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ARMY ARMAMENT R.D&E CENTER
SCIENTIFIC AND TECHNICAL INFORMATION DIVISION

PICATINNY ARSENAL
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TECHNICAL MEMORANDUM 1403

SUPERSONIC FLOW
ABOUT RIGHT CIRCULAR CONES
AT ZERO YAW IN AIR
AT THERMODYNAMIC EQUILIBRIUM
PART III - TABLES OF DATA CONT.

HENRY E. HUDGINS, JR.

SEPTEMBER 1964

AMCMS CODE 5016.11.844

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PICATINNY ARSENAL
DOVER, NEW JERSEY

ARMY ARMAMENT R.D&E CENTER
SCIENTIFIC AND TECHNICAL INFORMATION DIVISION

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Pt. 3
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Picatinny Arsenal Technical Memorandum 1493

Supersonic Flow About Right Circular Cones
At Zero Yaw In Air At Thermodynamic Equilibrium,
Part III - Tables of Data, Cont.

AMCMS CODE 5016.11.844

By

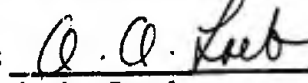
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FOREWORD

This material is a continuation of Part II and presents the cone flow properties of air in chemical equilibrium for altitudes from 100,000 to 200,000 feet at cone angles of 2.5° to 50° , and various Mach numbers from 3.0 to 40.0. Part II presents the cone properties for altitudes from sea level to 80,000 feet. Part I presents an analysis and correlation of this data. The Table of Symbols has been reproduced in this report for the convenience of the reader. Further details may be obtained from Part II.

TABLE OF CONTENTS

	<u>Page No.</u>
Table of Symbols	3
Table 6 - Flow Properties For Cone Angles From 2.5° to 50° At Various Mach Numbers For An Altitude of 100,000 Feet.	5-166
Table 7 - Flow Properties For Cone Angles From 2.5° to 50° At Various Mach Numbers For An Altitude of 125,000 Feet.	167-327
Table 8 - Flow Properties For Cone Angles From 2.5° to 50° At Various Mach Numbers For An Altitude of 155,500 Feet.	328-490
Table 9 - Flow Properties For Cone Angles From 2.5° to 50° At Various Mach Numbers For An Altitude of 172,500 Feet.	491-653
Table 10- Flow Properties For Cone Angles From 2.5° to 50° At Various Mach Numbers For An Altitude of 200,000 Feet.	654-814
Distribution	815

TABLE OF SYMBOLS

COMPUTER LISTING SYMBOLS

ETA	independent variable, ray angle measured from x-axis, degrees
VR	v_r / W_∞ , non-dimensional velocity component along ray
VN	v_t / W_∞ , non-dimensional velocity component normal to ray
V	$\frac{\sqrt{v_r^2 + v_t^2}}{W_\infty} = \sqrt{VR^2 + VN^2}$, non-dimensional resultant velocity
THETA	flow angle measured from x-axis, radians
P	non-dimensional pressure, p/p_∞
RHO	non-dimensional density, ρ/ρ_∞
MU	$\tan^{-1} \frac{1}{\sqrt{M^2 - 1}}$, Mach angle in radians
T	temperature, degrees Kelvin (K)

GENERAL SYMBOLS

a	local velocity of sound, fps
H	geometric altitude, ft
h	enthalpy, ft^2/sec^2
K_1	2 (stagnation enthalpy), ft^2/sec^2
M	Mach number, $\frac{W}{a}$
p	pressure, psf
R	gas constant, $1716 \text{ ft}^2/\text{sec}^2 \text{ R}$
S	entropy, $\text{ft}^2/\text{sec}^2 \text{ R}$
S/R	non-dimensional entropy
T	temperature, degrees Kelvin (K), or degrees Rankine (R)

u	velocity component in x direction, fps
v	velocity component in y direction, fps
v_r	velocity component along ray, fps
v_t	velocity component normal to ray, fps
W	resultant velocity, fps
x	Cartesian coordinate along cone axis of symmetry
y	Cartesian coordinate normal to cone axis of symmetry
γ	$\frac{a^2 \rho}{p}$, isentropic exponent
ϵ	η_s , shock angle measured from x-axis, radians
η	ray angle measured from x-axis, radians
μ	$\tan^{-1} \frac{1}{\sqrt{M^2 - 1}}$, Mach angle in radians
ρ	density, slug/ft ³
θ	flow angle measured from x-axis, radians

SUBSCRIPTS

∞	free stream
s	immediately behind shock
c	at cone surface

TABLE 6

Flow Properties For Cone Angles From 2.5° to 50°
At Various Mach Numbers For An Altitude of 100,000 Feet.

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE= 3.5581 ENTRØPY=27.5206
GAMMA (AVG.)=1.3994 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.5581	0.9981	-0.0337	0.99864	0.02839	2.422	1.844	0.04783	298.1
3.4523	0.9981	-0.0302	0.99859	0.02999	2.499	1.885	0.04804	300.8
3.3465	0.9982	-0.0269	0.99854	0.03148	2.564	1.921	0.04822	303.0
3.2407	0.9982	-0.0236	0.99851	0.03291	2.621	1.951	0.04837	304.9
3.1349	0.9983	-0.0204	0.99848	0.03432	2.670	1.977	0.04850	306.6
3.0291	0.9983	-0.0171	0.99845	0.03573	2.713	1.999	0.04861	308.0
2.9232	0.9983	-0.0138	0.99842	0.03717	2.749	2.019	0.04871	309.1
2.8174	0.9984	-0.0105	0.99841	0.03866	2.779	2.034	0.04878	310.1
2.7116	0.9984	-0.0071	0.99839	0.04022	2.802	2.046	0.04884	310.8
2.6058	0.9984	-0.0036	0.99838	0.04186	2.817	2.054	0.04888	311.3
2.5000	0.9984	-0.0000	0.99838	0.04363	2.823	2.057	0.04889	311.5

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE= 3.4507 ENTRØPY=27.5480
GAMMA (AVG.)=1.3991 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.4507	0.9982	-0.0305	0.99865	0.02967	2.691	1.973	0.04498	309.6
3.3556	0.9982	-0.0274	0.99861	0.03113	2.770	2.014	0.04517	312.2
3.2606	0.9983	-0.0244	0.99857	0.03249	2.839	2.049	0.04533	314.4
3.1655	0.9983	-0.0214	0.99854	0.03381	2.898	2.080	0.04547	316.3
3.0704	0.9983	-0.0184	0.99852	0.03511	2.950	2.106	0.04558	317.9
2.9754	0.9984	-0.0155	0.99849	0.03642	2.994	2.129	0.04568	319.2
2.8803	0.9984	-0.0125	0.99847	0.03775	3.032	2.148	0.04576	320.4
2.7852	0.9984	-0.0095	0.99846	0.03912	3.063	2.164	0.04583	321.3
2.6901	0.9984	-0.0064	0.99845	0.04054	3.087	2.176	0.04588	322.0
2.5951	0.9984	-0.0033	0.99844	0.04204	3.102	2.184	0.04591	322.5
2.5000	0.9984	-0.0000	0.99844	0.04363	3.108	2.187	0.04593	322.7

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 3.3628 ENTRØPY=27.5804
GAMMA (AVG.)=1.3988 STAG. ENTHALPY=3.9734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.3628	0.9983	-0.0279	0.99867	0.03075	2.980	2.103	0.04256	321.8
3.2765	0.9983	-0.0251	0.99863	0.03209	3.063	2.144	0.04274	324.3
3.1902	0.9984	-0.0223	0.99860	0.03336	3.135	2.180	0.04288	326.4
3.1039	0.9984	-0.0196	0.99857	0.03458	3.197	2.210	0.04300	328.3
3.0177	0.9984	-0.0169	0.99855	0.03579	3.251	2.237	0.04311	329.8
2.9314	0.9984	-0.0141	0.99853	0.03700	3.297	2.260	0.04320	331.2
2.8451	0.9985	-0.0114	0.99852	0.03823	3.337	2.279	0.04327	332.3
2.7588	0.9985	-0.0086	0.99850	0.03950	3.369	2.295	0.04333	333.2
2.6726	0.9985	-0.0058	0.99849	0.04081	3.393	2.307	0.04337	333.9
2.5863	0.9985	-0.0030	0.99849	0.04218	3.409	2.315	0.04340	334.3
2.5000	0.9985	-0.0000	0.99848	0.04363	3.415	2.317	0.04341	334.5

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 3.2899 ENTRØPY=27.6179
GAMMA (AVG.)=1.3984 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.2899	0.9984	-0.0257	0.99868	0.03168	3.291	2.233	0.04051	334.6
3.2109	0.9984	-0.0231	0.99865	0.03292	3.377	2.275	0.04066	337.0
3.1319	0.9984	-0.0205	0.99863	0.03410	3.452	2.310	0.04079	339.1
3.0529	0.9984	-0.0180	0.99860	0.03524	3.516	2.341	0.04090	340.9
2.9739	0.9985	-0.0155	0.99858	0.03637	3.573	2.368	0.04099	342.5
2.8949	0.9985	-0.0130	0.99857	0.03750	3.622	2.391	0.04107	343.8
2.8159	0.9985	-0.0105	0.99855	0.03864	3.663	2.411	0.04113	344.9
2.7370	0.9985	-0.0079	0.99854	0.03982	3.696	2.426	0.04119	345.8
2.6580	0.9985	-0.0054	0.99853	0.04103	3.721	2.438	0.04123	346.5
2.5790	0.9985	-0.0027	0.99853	0.04230	3.737	2.446	0.04125	346.9
2.5000	0.9985	-0.0000	0.99853	0.04363	3.744	2.448	0.04126	347.1

CONE SEMI-ANGLE= 2.5
 FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 34681.0 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 3.1538 ENTRØPY=27.7319
 GAMMA (AVG.)=1.3969 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.1538	0.9985	-0.0215	0.99872	0.03349	4.160	2.556	0.03647	369.4
3.0884	0.9985	-0.0193	0.99870	0.03453	4.255	2.598	0.03658	371.8
3.0231	0.9985	-0.0172	0.99868	0.03554	4.337	2.633	0.03668	373.8
2.9577	0.9985	-0.0151	0.99866	0.03651	4.409	2.665	0.03677	375.6
2.8923	0.9986	-0.0130	0.99865	0.03748	4.472	2.692	0.03694	377.1
2.8269	0.9986	-0.0109	0.99863	0.03845	4.526	2.715	0.03691	378.4
2.7615	0.9986	-0.0088	0.99862	0.03943	4.571	2.735	0.03696	379.5
2.6961	0.9986	-0.0066	0.99862	0.04043	4.608	2.750	0.03700	380.3
2.6308	0.9986	-0.0045	0.99861	0.04146	4.635	2.762	0.03703	381.0
2.5654	0.9986	-0.0022	0.99861	0.04252	4.653	2.769	0.03705	381.4
2.5000	0.9986	0.0000	0.99861	0.04363	4.659	2.772	0.03706	381.5

CONE SEMI-ANGLE= 2.5
 FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 39635.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 3.0613 ENTRØPY=27.8713
 GAMMA (AVG.)=1.3946 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.0613	0.9986	-0.0186	0.99875	0.03478	5.160	2.867	0.03353	408.6
3.0052	0.9986	-0.0167	0.99873	0.03568	5.264	2.908	0.03362	410.9
2.9490	0.9986	-0.0149	0.99872	0.03656	5.355	2.944	0.03370	412.9
2.8929	0.9986	-0.0131	0.99870	0.03742	5.435	2.976	0.03377	414.6
2.8368	0.9986	-0.0112	0.99869	0.03827	5.505	3.003	0.03383	416.1
2.7806	0.9986	-0.0094	0.99868	0.03912	5.565	3.026	0.03388	417.4
2.7245	0.9986	-0.0076	0.99868	0.03998	5.615	3.046	0.03393	418.5
2.6684	0.9987	-0.0057	0.99867	0.04086	5.655	3.061	0.03396	419.3
2.6123	0.9987	-0.0038	0.99867	0.04175	5.685	3.073	0.03398	419.9
2.5561	0.9987	-0.0019	0.99866	0.04268	5.704	3.080	0.03400	420.3
2.5000	0.9987	0.0000	0.99866	0.04363	5.711	3.083	0.03401	420.5

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 6.2708 ENTROPY=27.7572
GAMMA (AVG.)=1.3965 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.2708	0.9940	-0.0417	0.99489	0.06749	4.344	2.618	0.07192	376.7
6.1437	0.9941	-0.0375	0.99481	0.06952	4.441	2.659	0.07215	379.1
6.0166	0.9942	-0.0334	0.99474	0.07147	4.525	2.695	0.07234	381.1
5.8895	0.9942	-0.0292	0.99468	0.07338	4.598	2.726	0.07251	382.8
5.7625	0.9943	-0.0252	0.99462	0.07528	4.662	2.754	0.07265	384.3
5.6354	0.9944	-0.0211	0.99458	0.07717	4.717	2.777	0.07278	385.6
5.5083	0.9944	-0.0170	0.99454	0.07908	4.764	2.796	0.07288	386.7
5.3812	0.9944	-0.0128	0.99451	0.08103	4.801	2.812	0.07296	387.6
5.2542	0.9945	-0.0086	0.99449	0.08304	4.829	2.824	0.07302	388.2
5.1271	0.9945	-0.0044	0.99448	0.08511	4.846	2.831	0.07306	388.6
5.0000	0.9945	0.0000	0.99447	0.08727	4.853	2.834	0.07307	388.7

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 6.1274 ENTROPY=27.8703
GAMMA (AVG.)=1.3946 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.1274	0.9943	-0.0373	0.99498	0.06949	5.153	2.865	0.06733	408.3
6.0147	0.9944	-0.0335	0.99492	0.07131	5.257	2.906	0.06752	410.6
5.9019	0.9944	-0.0298	0.99486	0.07306	5.348	2.942	0.06768	412.6
5.7892	0.9945	-0.0261	0.99481	0.07479	5.428	2.974	0.06783	414.4
5.6766	0.9945	-0.0225	0.99477	0.07650	5.498	3.001	0.06795	415.9
5.5637	0.9946	-0.0188	0.99473	0.07821	5.558	3.024	0.06805	417.1
5.4510	0.9946	-0.0151	0.99470	0.07994	5.608	3.044	0.06814	418.2
5.3382	0.9946	-0.0114	0.99468	0.08169	5.648	3.059	0.06821	419.0
5.2255	0.9946	-0.0077	0.99466	0.08349	5.678	3.071	0.06826	419.7
5.1127	0.9946	-0.0039	0.99465	0.08534	5.697	3.078	0.06829	420.0
5.0000	0.9946	0.0000	0.99465	0.08727	5.704	3.081	0.06831	420.2

CBNE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 6.0182 ENTRPHY=27.9964
GAMMA (AVG.)=1.3920 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.0182	0.9945	-0.0338	0.99506	0.07105	6.046	3.100	0.06364	442.6
5.9164	0.9945	-0.0304	0.99501	0.07270	6.158	3.142	0.06383	444.9
5.8146	0.9946	-0.0270	0.99496	0.07431	6.257	3.178	0.06397	446.9
5.7128	0.9946	-0.0237	0.99492	0.07589	6.344	3.210	0.06409	448.7
5.6109	0.9947	-0.0204	0.99489	0.07745	6.420	3.237	0.06420	450.2
5.5091	0.9947	-0.0170	0.99486	0.07902	6.485	3.260	0.06429	451.5
5.4073	0.9947	-0.0137	0.99483	0.08060	6.539	3.280	0.06436	452.5
5.3055	0.9948	-0.0103	0.99481	0.08221	6.582	3.295	0.06442	453.4
5.2036	0.9948	-0.0069	0.99480	0.08384	6.614	3.307	0.06447	454.0
5.1018	0.9948	-0.0035	0.99479	0.08553	6.634	3.314	0.06449	454.4
5.0000	0.9948	0.0000	0.99478	0.08727	6.642	3.317	0.06450	454.5

CBNE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 5.9329 ENTRPHY=28.1328
GAMMA (AVG.)=1.3886 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.9329	0.9946	-0.0311	0.99513	0.07229	7.023	3.323	0.06067	479.7
5.8396	0.9947	-0.0280	0.99508	0.07381	7.145	3.364	0.06081	482.0
5.7464	0.9947	-0.0249	0.99504	0.07530	7.252	3.401	0.06094	484.0
5.6531	0.9948	-0.0218	0.99501	0.07676	7.346	3.432	0.06105	485.8
5.5598	0.9948	-0.0187	0.99498	0.07821	7.428	3.460	0.06114	487.3
5.4665	0.9948	-0.0157	0.99495	0.07967	7.498	3.484	0.06122	488.6
5.3732	0.9949	-0.0126	0.99493	0.08113	7.557	3.503	0.06129	489.6
5.2799	0.9949	-0.0095	0.99491	0.08261	7.603	3.519	0.06134	490.5
5.1866	0.9949	-0.0064	0.99490	0.08412	7.638	3.530	0.06138	491.1
5.0933	0.9949	-0.0032	0.99489	0.08567	7.660	3.537	0.06140	491.5
5.0000	0.9949	0.0000	0.99489	0.08727	7.667	3.540	0.06141	491.6

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NB.=26.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 5.8649 ENTRØPY=28.2772
GAMMA IAVG.=1.3844 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8649	0.9948	-0.0289	0.99519	0.07329	8.084	3.533	0.05818	519.5
5.7784	0.9948	-0.0260	0.99515	0.07471	8.216	3.574	0.05831	521.8
5.6919	0.9948	-0.0231	0.99511	0.07610	8.332	3.610	0.05842	523.8
5.6054	0.9949	-0.0203	0.99508	0.07747	8.434	3.642	0.05852	525.6
5.5189	0.9949	-0.0174	0.99505	0.07883	8.522	3.670	0.05860	527.1
5.4324	0.9949	-0.0146	0.99503	0.08018	8.598	3.694	0.05867	528.4
5.3459	0.9949	-0.0117	0.99501	0.08155	8.662	3.713	0.05873	529.5
5.2595	0.9950	-0.0088	0.99500	0.08294	8.712	3.729	0.05878	530.3
5.1730	0.9950	-0.0059	0.99499	0.08434	8.749	3.740	0.05881	531.0
5.0865	0.9950	-0.0030	0.99498	0.08578	8.772	3.747	0.05883	531.4
5.0000	0.9950	0.0000	0.99498	0.08727	8.781	3.750	0.05884	531.5

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NB.=28.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 5.8094 ENTRØPY=28.4277
GAMMA IAVG.=1.3796 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8094	0.9949	-0.0271	0.99523	0.07412	9.230	3.729	0.05608	561.8
5.7285	0.9949	-0.0244	0.99520	0.07545	9.372	3.771	0.05620	564.1
5.6475	0.9949	-0.0217	0.99517	0.07676	9.497	3.807	0.05630	566.2
5.5666	0.9950	-0.0190	0.99514	0.07805	9.607	3.839	0.05639	568.0
5.4856	0.9950	-0.0163	0.99512	0.07933	9.703	3.867	0.05646	569.6
5.4047	0.9950	-0.0137	0.99510	0.08061	9.785	3.891	0.05652	570.9
5.3238	0.9950	-0.0110	0.99508	0.08190	9.854	3.910	0.05658	572.0
5.2428	0.9950	-0.0083	0.99507	0.08320	9.908	3.926	0.05662	572.8
5.1619	0.9950	-0.0055	0.99506	0.08452	9.948	3.938	0.05665	573.5
5.0809	0.9950	-0.0028	0.99505	0.08588	9.973	3.945	0.05667	573.9
5.0000	0.9951	0.0000	0.99505	0.08727	9.982	3.947	0.05667	574.0

CBME SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 5.7634 ENTRPHY=28.5826
GAMMA (AVG.)=1.3742 STAG. ENTHALPY=6.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.7634	0.9949	-0.0257	0.99527	0.07481	10.460	3.914	0.05428	605.6
5.6871	0.9950	-0.0231	0.99524	0.07608	10.613	3.956	0.05439	609.0
5.6108	0.9950	-0.0205	0.99522	0.07731	10.748	3.992	0.05448	611.1
5.5344	0.9950	-0.0180	0.99519	0.07854	10.867	4.024	0.05456	612.9
5.4581	0.9951	-0.0154	0.99517	0.07975	10.971	4.052	0.05463	614.5
5.3817	0.9951	-0.0129	0.99515	0.08097	11.059	4.076	0.05468	615.9
5.3054	0.9951	-0.0104	0.99514	0.08219	11.133	4.096	0.05473	617.0
5.2290	0.9951	-0.0078	0.99513	0.08342	11.191	4.111	0.05477	617.9
5.1527	0.9951	-0.0052	0.99512	0.08468	11.234	4.123	0.05480	618.5
5.0763	0.9951	-0.0026	0.99511	0.08595	11.261	4.130	0.05481	618.9
5.0000	0.9951	0.0000	0.99511	0.08727	11.271	4.133	0.05482	619.1

CBME SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 5.6769 ENTRPHY=28.9810
GAMMA (AVG.)=1.3598 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6769	0.9951	-0.0228	0.99536	0.07613	13.906	4.330	0.05073	728.9
5.6092	0.9951	-0.0205	0.99533	0.07726	14.089	4.372	0.05081	731.5
5.5415	0.9951	-0.0183	0.99531	0.07837	14.251	4.409	0.05089	733.7
5.4739	0.9952	-0.0160	0.99529	0.07946	14.394	4.441	0.05095	735.6
5.4062	0.9952	-0.0137	0.99527	0.08055	14.518	4.470	0.05101	737.3
5.3385	0.9952	-0.0115	0.99526	0.08164	14.624	4.494	0.05105	738.7
5.2708	0.9952	-0.0092	0.99525	0.08274	14.712	4.513	0.05109	739.9
5.2031	0.9952	-0.0069	0.99524	0.08384	14.782	4.529	0.05112	740.8
5.1354	0.9952	-0.0046	0.99523	0.08496	14.833	4.541	0.05115	741.5
5.0677	0.9952	-0.0023	0.99523	0.08610	14.865	4.548	0.05116	741.9
5.0000	0.9952	0.0000	0.99523	0.08727	14.876	4.550	0.05116	742.1

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRPHY=27.4504

FLW PRPERTIES

SHOCK ANGLE= 5.6162 ENTRPHY=29.3852
GAMMA (AVG.)=1.3457 STAG. ENTHALPY=7.8794E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.6162	0.9952	-0.0209	0.99542	0.07707	17.882	4.692	0.04810	865.0
5.5546	0.9952	-0.0188	0.99540	0.07810	18.098	4.734	0.04817	867.7
5.4930	0.9952	-0.0167	0.99538	0.07912	18.290	4.772	0.04823	870.1
5.4314	0.9953	-0.0146	0.99536	0.08012	18.459	4.804	0.04829	872.1
5.3697	0.9953	-0.0125	0.99535	0.08113	18.606	4.833	0.04833	873.9
5.3081	0.9953	-0.0105	0.99534	0.08212	18.731	4.857	0.04837	875.4
5.2465	0.9953	-0.0084	0.99533	0.08313	18.835	4.877	0.04841	876.7
5.1849	0.9953	-0.0063	0.99532	0.08414	18.917	4.893	0.04843	877.6
5.1232	0.9953	-0.0042	0.99531	0.08516	18.977	4.904	0.04845	878.4
5.0616	0.9953	-0.0021	0.99531	0.08620	19.015	4.911	0.04846	878.8
5.0000	0.9953	-0.0000	0.99531	0.08727	19.028	4.914	0.04847	879.0

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
 VELOCITY= 9908.9 FT./SEC. ENTRAPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 9.9009 ENTRAPY=27.6168
 GAMMA (AVG.)=1.3984 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
9.200	0.9851	-0.0771	0.98811	0.09467	3.283	2.229	0.12305	334.2
9.000	0.9854	-0.0693	0.98784	0.09861	3.368	2.271	0.12353	336.7
8.800	0.9857	-0.0616	0.98760	0.10197	3.443	2.307	0.12395	338.8
8.600	0.9859	-0.0541	0.98740	0.10543	3.507	2.338	0.12430	340.6
8.400	0.9861	-0.0466	0.98722	0.10885	3.564	2.364	0.12460	342.1
8.200	0.9863	-0.0391	0.98707	0.11227	3.612	2.387	0.12486	343.5
8.000	0.9864	-0.0315	0.98694	0.11575	3.653	2.407	0.12508	344.6
7.800	0.9866	-0.0239	0.98684	0.11931	3.687	2.423	0.12525	345.5
7.600	0.9866	-0.0161	0.98677	0.12300	3.712	2.434	0.12538	346.1
7.400	0.9867	-0.0081	0.98672	0.12684	3.728	2.442	0.12547	346.5
7.200	0.9867	-0.0000	0.98670	0.13090	3.734	2.443	0.12550	346.7

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
 VELOCITY= 11890.6 FT./SEC. ENTRAPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 9.4205 ENTRAPY=27.7560
 GAMMA (AVG.)=1.3966 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
9.4205	0.9865	-0.0626	0.98849	0.10105	4.335	2.615	0.10865	376.4
9.2284	0.9867	-0.0563	0.98831	0.10411	4.431	2.656	0.10900	378.7
9.0364	0.9869	-0.0500	0.98815	0.10705	4.515	2.692	0.10931	380.7
8.8443	0.9870	-0.0439	0.98801	0.10993	4.589	2.723	0.10957	382.5
8.6523	0.9872	-0.0378	0.98789	0.11279	4.653	2.751	0.10980	384.0
8.4602	0.9873	-0.0316	0.98779	0.11565	4.708	2.774	0.10999	385.3
8.2682	0.9874	-0.0255	0.98771	0.11854	4.754	2.793	0.11015	386.3
8.0761	0.9875	-0.0192	0.98764	0.12148	4.791	2.809	0.11028	387.2
7.8841	0.9875	-0.0129	0.98759	0.12451	4.819	2.821	0.11037	387.8
7.6920	0.9875	-0.0065	0.98756	0.12764	4.837	2.828	0.11043	388.2
7.5000	0.9875	0.0000	0.98754	0.13090	4.843	2.831	0.11046	388.4

CONF SEMI-ANGLE= 7.5
 FREE STREAM CONDITIONS
 MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.38 DEG. R
 VELOCITY= 15894.2 FT./SEC. ENTROPY=27.4504

CONF SEMI-ANGLE= 7.5
 FREE STREAM CONDITIONS
 MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
 VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE= 9.1152 ENTROPY=27.9301
 GAMMA (AVG.)=1.3886 STAG. ENTHALPY=1.2613E 08 FT. 50./SEC. 50.
 ENTROPY=28.1304

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.9086	0.9879	-0.0467	0.98903	0.10830	7.006	3.319	0.09158	479.1
8.7678	0.9880	-0.0419	0.98893	0.11060	7.127	3.361	0.09180	481.4
8.6269	0.9881	-0.0373	0.98884	0.11284	7.234	3.397	0.09199	483.4
8.4860	0.9882	-0.0327	0.98876	0.11504	7.328	3.429	0.09216	485.1
8.3452	0.9883	-0.0281	0.98870	0.11724	7.410	3.456	0.09231	486.6
8.2043	0.9884	-0.0235	0.98864	0.11943	7.480	3.480	0.09243	487.9
8.0634	0.9884	-0.0189	0.98859	0.12163	7.538	3.499	0.09253	489.0
7.9226	0.9884	-0.0142	0.98855	0.12387	7.585	3.515	0.09261	489.4
7.7817	0.9885	-0.0096	0.98852	0.12615	7.619	3.526	0.09267	490.5
7.6409	0.9885	-0.0048	0.98850	0.12849	7.641	3.534	0.09271	490.8
7.5000	0.9885	0.0000	0.98850	0.13090	7.649	3.536	0.09272	491.0

SHOCK ANGLE= 9.1152 ENTROPY=27.9301
 GAMMA (AVG.)=1.3934 STAG. ENTHALPY=9.8676E 07 FT. 50./SEC. 50.
 ENTROPY=27.9301

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.1152	0.9874	-0.0531	0.98880	0.10531	5.576	2.981	0.09875	424.6
8.0000	0.9875	-0.0478	0.98864	0.10793	5.684	3.022	0.09902	426.9
7.8848	0.9876	-0.0425	0.98855	0.11046	5.779	3.058	0.09926	428.9
7.7696	0.9877	-0.0372	0.98845	0.11294	5.862	3.090	0.09947	430.7
7.6544	0.9878	-0.0320	0.98836	0.11541	5.935	3.117	0.09965	432.2
7.5392	0.9879	-0.0268	0.98829	0.11788	5.997	3.140	0.09980	433.4
7.4240	0.9880	-0.0215	0.98822	0.12037	6.049	3.160	0.09992	434.5
7.3088	0.9881	-0.0163	0.98814	0.12290	6.090	3.176	0.10002	435.3
7.1936	0.9881	-0.0110	0.98810	0.12548	6.121	3.187	0.10009	436.0
7.0784	0.9881	-0.0058	0.98805	0.12816	6.141	3.194	0.10014	436.4
6.9632	0.9881	0.0000	0.98801	0.13090	6.148	3.197	0.10016	436.5

CONE SEMI-ANGLE = P.5
FREE STREAM CONDITIONS

MACH NO. = 18.00 ALTITUDE = 100000.0 FEET PRESSURE = 2.3270E 01 PSF
DENSITY = 3.3180E-05 SLUGS/CU. FT. TEMPERATURE = 408.58 DEG. R
VELOCITY = 17836.0 FT./SEC. ENTRPHY = 27.4904

FLOW PROPERTIES

SHOCK ANGLE = 8.7615 ENTRPHY = 28.3488
GAMMA TANG. = 1.3782 STAG. ENTHALPY = 1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (R)
8.6521	0.9886	-0.0385	0.98937	0.11211	10.432	3.910	0.08190	605.6
8.5369	0.9887	-0.0346	0.98930	0.11402	10.585	3.952	0.08206	608.0
8.4217	0.9888	-0.0306	0.98923	0.11589	10.720	3.988	0.08220	610.1
8.3065	0.9888	-0.0269	0.98918	0.11773	10.838	4.020	0.08232	611.9
8.1912	0.9889	-0.0231	0.98913	0.11956	10.942	4.048	0.08243	613.5
8.0760	0.9889	-0.0193	0.98909	0.12140	11.030	4.072	0.08251	614.9
7.9608	0.9889	-0.0155	0.98906	0.12324	11.104	4.092	0.08259	616.0
7.8456	0.9890	-0.0117	0.98903	0.12510	11.162	4.107	0.08265	616.8
7.7304	0.9890	-0.0078	0.98901	0.12699	11.205	4.119	0.08269	617.5
7.6152	0.9890	-0.0039	0.98900	0.12892	11.232	4.126	0.08271	617.8
7.5000	0.9890	0.0000	0.98900	0.13090	11.241	4.129	0.08272	618.0

CONE SEMI-ANGLE = 7.5
FREE STREAM CONDITIONS

MACH NO. = 20.00 ALTITUDE = 100000.0 FEET PRESSURE = 2.3270E 01 PSF
DENSITY = 3.3180E-05 SLUGS/CU. FT. TEMPERATURE = 408.58 DEG. R
VELOCITY = 19817.7 FT./SEC. ENTRPHY = 27.4904

FLOW PROPERTIES

SHOCK ANGLE = 8.6521 ENTRPHY = 28.3791
GAMMA TANG. = 1.3743 STAG. ENTHALPY = 1.5885E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (R)
8.6521	0.9886	-0.0385	0.98937	0.11211	10.432	3.910	0.08190	605.6
8.5369	0.9887	-0.0346	0.98930	0.11402	10.585	3.952	0.08206	608.0
8.4217	0.9888	-0.0306	0.98923	0.11589	10.720	3.988	0.08220	610.1
8.3065	0.9888	-0.0269	0.98918	0.11773	10.838	4.020	0.08232	611.9
8.1912	0.9889	-0.0231	0.98913	0.11956	10.942	4.048	0.08243	613.5
8.0760	0.9889	-0.0193	0.98909	0.12140	11.030	4.072	0.08251	614.9
7.9608	0.9889	-0.0155	0.98906	0.12324	11.104	4.092	0.08259	616.0
7.8456	0.9890	-0.0117	0.98903	0.12510	11.162	4.107	0.08265	616.8
7.7304	0.9890	-0.0078	0.98901	0.12699	11.205	4.119	0.08269	617.5
7.6152	0.9890	-0.0039	0.98900	0.12892	11.232	4.126	0.08271	617.8
7.5000	0.9890	0.0000	0.98900	0.13090	11.241	4.129	0.08272	618.0

CENT SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 8.5674 ENTROPY=28.8164
GAMMA (AVG.)=1.3570 STAG. ENTHALPY=2.4005E 04 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.5004	0.9890	-0.0336	0.98958	0.11442	12.430	4.167	0.07846	677.1
8.4004	0.9891	-0.0302	0.98953	0.11517	12.400	4.209	0.07860	679.6
8.3003	0.9891	-0.0268	0.98948	0.11691	12.751	4.246	0.07873	681.7
8.2003	0.9892	-0.0235	0.98944	0.11863	12.883	4.278	0.07883	683.6
8.1002	0.9892	-0.0202	0.98940	0.12034	12.999	4.306	0.07893	685.3
8.0002	0.9892	-0.0169	0.98937	0.12206	13.097	4.330	0.07900	686.6
7.9002	0.9893	-0.0135	0.98935	0.12377	13.179	4.350	0.07907	687.8
7.8001	0.9893	-0.0102	0.98933	0.12551	13.244	4.365	0.07912	688.7
7.7001	0.9893	-0.0068	0.98931	0.12727	13.292	4.377	0.07916	689.4
7.6000	0.9893	-0.0034	0.98930	0.12906	13.322	4.384	0.07918	689.8
7.5000	0.9893	-0.0000	0.98930	0.13090	13.333	4.387	0.07919	689.9

CENT SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 9.5004 ENTROPY=29.0974
GAMMA (AVG.)=1.3570 STAG. ENTHALPY=2.8523E 04 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.5004	0.9890	-0.0336	0.98958	0.11442	14.617	4.402	0.07563	753.7
8.4004	0.9891	-0.0302	0.98953	0.11609	14.806	4.444	0.07575	756.2
8.3003	0.9891	-0.0268	0.98948	0.11774	14.974	4.481	0.07586	758.5
8.2003	0.9892	-0.0235	0.98944	0.11936	15.122	4.514	0.07596	760.4
8.1002	0.9892	-0.0202	0.98940	0.12097	15.250	4.542	0.07604	762.1
8.0002	0.9892	-0.0169	0.98937	0.12258	15.359	4.566	0.07611	763.6
7.9002	0.9893	-0.0135	0.98935	0.12420	15.450	4.586	0.07617	764.7
7.8001	0.9893	-0.0102	0.98933	0.12584	15.522	4.602	0.07621	765.7
7.7001	0.9893	-0.0068	0.98931	0.12749	15.575	4.613	0.07624	766.4
7.6000	0.9893	-0.0034	0.98930	0.12918	15.608	4.620	0.07627	766.8
7.5000	0.9893	-0.0000	0.98930	0.13090	15.620	4.623	0.07627	766.9

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 8.4455 ENTROPY=29.2996
GAMMA (AVG.)=1.3486 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

L/A	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4455	0.9892	-0.0318	0.98967	0.11527	16.995	4.620	0.07324	835.1
8.3510	0.9892	-0.0286	0.98962	0.11686	17.204	4.662	0.07336	837.8
8.2564	0.9892	-0.0254	0.98957	0.11841	17.390	4.699	0.07346	840.1
8.1619	0.9893	-0.0223	0.98954	0.11995	17.553	4.731	0.07354	842.1
8.0673	0.9893	-0.0191	0.98950	0.12149	17.695	4.760	0.07362	843.9
7.9728	0.9893	-0.0160	0.98948	0.12302	17.816	4.784	0.07368	845.4
7.8782	0.9894	-0.0128	0.98945	0.12456	17.916	4.804	0.07373	846.6
7.7837	0.9894	-0.0096	0.98944	0.12611	17.996	4.820	0.07377	847.6
7.6891	0.9894	-0.0065	0.98942	0.12767	18.054	4.831	0.07380	848.3
7.5946	0.9894	-0.0032	0.98942	0.12927	18.090	4.838	0.07382	848.7
7.5000	0.9894	-0.0000	0.98941	0.13090	18.103	4.841	0.07383	848.9

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 8.3999 ENTROPY=29.5413
GAMMA (AVG.)=1.3408 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3999	0.9893	-0.0303	0.98974	0.11598	19.564	4.820	0.07122	921.2
8.3099	0.9893	-0.0273	0.98969	0.11749	19.794	4.863	0.07132	924.0
8.2199	0.9894	-0.0242	0.98965	0.11898	19.998	4.900	0.07141	926.4
8.1299	0.9894	-0.0212	0.98962	0.12045	20.178	4.933	0.07149	928.5
8.0399	0.9894	-0.0182	0.98959	0.12192	20.334	4.961	0.07156	930.3
7.9500	0.9894	-0.0152	0.98956	0.12338	20.467	4.985	0.07162	931.9
7.8600	0.9895	-0.0122	0.98954	0.12485	20.578	5.006	0.07166	933.2
7.7700	0.9895	-0.0092	0.98953	0.12633	20.665	5.021	0.07170	934.2
7.6800	0.9895	-0.0061	0.98952	0.12783	20.729	5.033	0.07173	934.9
7.5900	0.9895	-0.0031	0.98951	0.12935	20.769	5.040	0.07174	935.3
7.5000	0.9895	0.0000	0.98950	0.13090	20.783	5.043	0.07175	935.5

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 8.3613 ENTROPY=29.7815
GAMMA (AVG.)=1.3337 STAG. ENTHALPY=4.4429E 09 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3613	0.9894	-0.0290	0.98980	0.11659	22.322	5.007	0.06997	1012.0
8.2752	0.9894	-0.0261	0.98976	0.11804	22.574	5.049	0.06957	1014.8
8.1891	0.9894	-0.0232	0.98972	0.11946	22.798	5.087	0.06965	1017.3
8.1029	0.9895	-0.0203	0.98969	0.12088	22.995	5.120	0.06973	1019.5
8.0168	0.9895	-0.0175	0.98966	0.12228	23.167	5.148	0.06979	1021.4
7.9307	0.9895	-0.0146	0.98964	0.12369	23.313	5.173	0.06984	1023.0
7.8445	0.9896	-0.0117	0.98962	0.12510	23.434	5.193	0.06989	1024.4
7.7584	0.9896	-0.0088	0.98960	0.12652	23.529	5.209	0.06992	1025.4
7.6723	0.9896	-0.0059	0.98959	0.12796	23.599	5.220	0.06995	1026.2
7.5861	0.9896	-0.0030	0.98959	0.12941	23.643	5.227	0.06996	1026.6
7.5000	0.9896	-0.0000	0.98958	0.13090	23.658	5.230	0.06997	1026.8

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE= 8.2868 ENTROPY=30.3702
GAMMA (AVG.)=1.3196 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2868	0.9896	-0.0266	0.98992	0.11776	30.052	5.419	0.06604	1258.8
8.2081	0.9896	-0.0239	0.98988	0.11909	30.364	5.462	0.06612	1261.9
8.1295	0.9896	-0.0213	0.98985	0.12040	30.641	5.500	0.06620	1264.7
8.0508	0.9897	-0.0186	0.98983	0.12170	30.885	5.533	0.06626	1267.1
7.9721	0.9897	-0.0160	0.98980	0.12300	31.098	5.561	0.06631	1269.2
7.8934	0.9897	-0.0133	0.98978	0.12429	31.278	5.586	0.06636	1271.0
7.8147	0.9897	-0.0107	0.98977	0.12558	31.428	5.606	0.06640	1272.5
7.7360	0.9897	-0.0080	0.98975	0.12689	31.546	5.622	0.06643	1273.6
7.6574	0.9897	-0.0054	0.98974	0.12821	31.632	5.634	0.06645	1274.5
7.5787	0.9897	-0.0027	0.98974	0.12954	31.685	5.641	0.06646	1275.0
7.5000	0.9897	-0.0000	0.98974	0.13090	31.705	5.644	0.06647	1275.2

CONE SEMI-ANGLE = 7.5
 FREE STREAM CONDITIONS

MACH NR. = 40.00 ALTITUDE = 100000.0 FEET PRESSURE = 2.3270E 01 PSF
 DENSITY = 3.3180E-05 SLUGS/CU. FT. TEMPERATURE = 226.99 DEG. K
 VELOCITY = 39635.5 FT./SEC. ENTRØPY = 27.4504

FLOW PROPERTIES

SHØCK ANGLE = 9.2336 ENTRØPY = 30.9374
 GAMMA (AVG.) = 1.3097 STAG. ENTHALPY = 7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
8.2336	0.9897	-0.0248	0.99000	0.11861	38.972	5.766	0.06355	1534.4
8.1603	0.9897	-0.0223	0.98997	0.11986	39.351	5.808	0.06362	1537.9
8.0869	0.9897	-0.0199	0.98995	0.12108	39.687	5.846	0.06369	1541.0
8.0135	0.9898	-0.0174	0.98992	0.12230	39.984	5.879	0.06374	1543.7
7.9402	0.9898	-0.0149	0.98990	0.12351	40.241	5.908	0.06379	1546.0
7.8668	0.9898	-0.0125	0.98989	0.12472	40.460	5.933	0.06383	1548.0
7.7934	0.9898	-0.0100	0.98987	0.12593	40.642	5.953	0.06387	1549.7
7.7201	0.9898	-0.0075	0.98986	0.12715	40.785	5.969	0.06389	1550.9
7.6467	0.9898	-0.0050	0.98985	0.12838	40.889	5.981	0.06391	1551.9
7.5734	0.9898	-0.0025	0.98985	0.12963	40.954	5.988	0.06392	1552.5
7.5000	0.9898	-0.0000	0.98985	0.13090	40.977	5.991	0.06393	1552.7

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 406.59 DEG. R
VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=12.2940 ENTRPHY=27.8665
GAMMA (AVG.)=1.3947 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
12.2940	0.9771	-0.0745	0.97990	0.13044	5.126	2.857	0.13688	407.2
12.0646	0.9773	-0.0670	0.97963	0.14212	5.229	2.898	0.13730	409.6
11.8452	0.9776	-0.0596	0.97941	0.14569	5.320	2.934	0.13766	411.6
11.6058	0.9778	-0.0522	0.97921	0.14919	5.400	2.966	0.13797	413.3
11.3764	0.9780	-0.0449	0.97903	0.15266	5.469	2.993	0.13824	414.8
11.1470	0.9782	-0.0376	0.97889	0.15613	5.529	3.016	0.13847	416.1
10.9176	0.9783	-0.0302	0.97877	0.15964	5.579	3.036	0.13867	417.1
10.6882	0.9784	-0.0228	0.97867	0.16320	5.614	3.052	0.13882	418.0
10.4588	0.9785	-0.0153	0.97860	0.16686	5.644	3.063	0.13893	418.6
10.2294	0.9785	-0.0077	0.97855	0.17062	5.668	3.070	0.13900	419.0
10.0000	0.9785	0.0000	0.97853	0.17453	5.675	3.073	0.13903	419.1

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC.

FLOW PROPERTIES

SHOCK ANGLE=11.6957 ENTRPHY=28.1270
GAMMA (AVG.)=1.3887 STAG. ENTHALPY=7.3140E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.6957	0.9785	-0.0622	0.98049	0.14414	6.981	3.314	0.12319	478.1
11.7061	0.9787	-0.0559	0.98031	0.14723	7.102	3.356	0.12350	480.5
11.5166	0.9789	-0.0497	0.98015	0.15025	7.209	3.392	0.12377	482.5
11.3270	0.9790	-0.0436	0.98001	0.15321	7.303	3.424	0.12401	484.2
11.1374	0.9792	-0.0375	0.97989	0.15515	7.385	3.451	0.12421	485.7
10.9478	0.9793	-0.0313	0.97978	0.15910	7.455	3.475	0.12438	487.0
10.7583	0.9794	-0.0252	0.97970	0.16207	7.513	3.494	0.12453	488.1
10.5687	0.9794	-0.0190	0.97963	0.16508	7.560	3.510	0.12464	488.9
10.3791	0.9795	-0.0127	0.97958	0.16814	7.594	3.521	0.12472	489.5
10.1896	0.9795	-0.0064	0.97954	0.17129	7.616	3.528	0.12478	489.9
10.0000	0.9795	0.0000	0.97953	0.17453	7.624	3.531	0.12479	490.1

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.6431 ENTROPY=28.4202
GAMMA (AVG.)=1.3798 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.4702	0.9800	-0.0488	0.98124	0.15048	11.698	4.078	0.10690	651.1
11.3232	0.9801	-0.0438	0.98112	0.15292	11.861	4.120	0.10710	653.5
11.1762	0.9802	-0.0390	0.98102	0.15531	12.007	4.157	0.10728	655.7
11.0292	0.9803	-0.0342	0.98093	0.15767	12.134	4.189	0.10743	657.5
10.8821	0.9804	-0.0293	0.98086	0.16002	12.245	4.217	0.10757	659.1
10.7351	0.9805	-0.0245	0.98079	0.16237	12.340	4.241	0.10768	660.5
10.5881	0.9805	-0.0197	0.98074	0.16473	12.419	4.261	0.10777	661.6
10.4411	0.9806	-0.0148	0.98070	0.16712	12.481	4.276	0.10785	662.5
10.2940	0.9806	-0.0099	0.98067	0.16954	12.527	4.288	0.10790	663.2
10.1470	0.9806	-0.0050	0.98065	0.17201	12.556	4.295	0.10793	663.6
10.0000	0.9806	0.0000	0.98064	0.17453	12.567	4.297	0.10795	663.8

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.4702 ENTROPY=28.7315
GAMMA (AVG.)=1.3689 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.4702	0.9800	-0.0488	0.98124	0.15048	11.698	4.078	0.10690	651.1
11.3232	0.9801	-0.0438	0.98112	0.15292	11.861	4.120	0.10710	653.5
11.1762	0.9802	-0.0390	0.98102	0.15531	12.007	4.157	0.10728	655.7
11.0292	0.9803	-0.0342	0.98093	0.15767	12.134	4.189	0.10743	657.5
10.8821	0.9804	-0.0293	0.98086	0.16002	12.245	4.217	0.10757	659.1
10.7351	0.9805	-0.0245	0.98079	0.16237	12.340	4.241	0.10768	660.5
10.5881	0.9805	-0.0197	0.98074	0.16473	12.419	4.261	0.10777	661.6
10.4411	0.9806	-0.0148	0.98070	0.16712	12.481	4.276	0.10785	662.5
10.2940	0.9806	-0.0099	0.98067	0.16954	12.527	4.288	0.10790	663.2
10.1470	0.9806	-0.0050	0.98065	0.17201	12.556	4.295	0.10793	663.6
10.0000	0.9806	0.0000	0.98064	0.17453	12.567	4.297	0.10795	663.8

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.3446 ENTRPHY=29.0513
GAMMA (AVG.)=1.3572 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.3446	0.9805	-0.0447	0.98148	0.15240	14.560	4.397	0.10162	751.7
11.2101	0.9806	-0.0402	0.98138	0.15464	14.748	4.439	0.10179	754.2
11.0757	0.9806	-0.0358	0.98130	0.15685	14.916	4.476	0.10195	756.5
10.9412	0.9807	-0.0313	0.98122	0.15903	15.063	4.508	0.10208	758.4
10.8068	0.9808	-0.0269	0.98116	0.16119	15.191	4.536	0.10219	760.1
10.6723	0.9808	-0.0225	0.98111	0.16336	15.300	4.560	0.10229	761.6
10.5378	0.9809	-0.0180	0.98106	0.16553	15.390	4.580	0.10237	762.7
10.4034	0.9809	-0.0136	0.98102	0.16773	15.462	4.596	0.10243	763.7
10.2689	0.9810	-0.0091	0.98100	0.16995	15.515	4.607	0.10247	764.4
10.1345	0.9810	-0.0046	0.98098	0.17222	15.548	4.615	0.10250	764.8
10.0000	0.9810	0.0000	0.98097	0.17453	15.560	4.617	0.10251	764.9

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.2489 ENTRPHY=29.3734
GAMMA (AVG.)=1.3461 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.2489	0.9808	-0.0417	0.98167	0.15388	17.759	4.682	0.09744	860.9
11.1240	0.9809	-0.0375	0.98159	0.15597	17.974	4.724	0.09759	863.6
10.9991	0.9809	-0.0333	0.98151	0.15803	18.165	4.762	0.09772	865.9
10.8742	0.9810	-0.0292	0.98145	0.16007	18.333	4.794	0.09784	868.0
10.7493	0.9811	-0.0250	0.98139	0.16209	18.479	4.823	0.09794	869.8
10.6245	0.9811	-0.0209	0.98135	0.16412	18.604	4.847	0.09802	871.3
10.4996	0.9812	-0.0168	0.98131	0.16615	18.708	4.867	0.09809	872.5
10.3747	0.9812	-0.0126	0.98128	0.16820	18.789	4.883	0.09815	873.5
10.2498	0.9812	-0.0085	0.98125	0.17027	18.849	4.894	0.09819	874.2
10.1249	0.9812	-0.0043	0.98124	0.17238	18.887	4.902	0.09821	874.6
10.0000	0.9812	0.0000	0.98123	0.17453	18.900	4.904	0.09822	874.8

CBME SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.1735 ENTRPHY=29.6942
GAMMA (AVG.)=1.3362 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
11.1735	0.9810	-0.0392	0.98103	0.15505	21.294	4.940	0.09406	978.4
11.0562	0.9811	-0.0353	0.98175	0.15703	21.538	4.983	0.09419	981.2
10.9388	0.9812	-0.0314	0.98169	0.15897	21.755	5.020	0.09431	983.7
10.8215	0.9812	-0.0275	0.98163	0.16089	21.946	5.053	0.09441	985.8
10.7041	0.9813	-0.0236	0.98158	0.16281	22.111	5.082	0.09450	987.7
10.5868	0.9813	-0.0197	0.98154	0.16472	22.253	5.106	0.09458	989.3
10.4694	0.9814	-0.0158	0.98150	0.16664	22.370	5.126	0.09464	990.6
10.3521	0.9814	-0.0119	0.98148	0.16857	22.462	5.142	0.09469	991.6
10.2347	0.9814	-0.0080	0.98145	0.17052	22.530	5.154	0.09473	992.4
10.1173	0.9814	-0.0040	0.98144	0.17251	22.572	5.161	0.09475	992.8
10.0000	0.9814	0.0000	0.98144	0.17453	22.587	5.163	0.09476	993.0

CBME SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=11.1126 ENTRPHY=30.0112
GAMMA (AVG.)=1.3276 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
11.1126	0.9812	-0.0372	0.98196	0.15601	25.167	5.175	0.09127	1103.9
11.0013	0.9813	-0.0335	0.98189	0.15789	25.442	5.217	0.09139	1106.9
10.8901	0.9814	-0.0298	0.98183	0.15974	25.685	5.255	0.09150	1109.5
10.7788	0.9814	-0.0261	0.98178	0.16157	25.900	5.288	0.09159	1111.8
10.6676	0.9815	-0.0224	0.98173	0.16339	26.087	5.317	0.09168	1113.8
10.5563	0.9815	-0.0187	0.98169	0.16521	26.246	5.341	0.09174	1115.4
10.4450	0.9815	-0.0150	0.98166	0.16703	26.377	5.361	0.09180	1116.8
10.3333	0.9816	-0.0113	0.98164	0.16887	26.481	5.377	0.09185	1117.9
10.2225	0.9816	-0.0075	0.98162	0.17073	26.557	5.389	0.09188	1118.7
10.1113	0.9816	-0.0038	0.98161	0.17261	26.605	5.396	0.09190	1119.2
10.0000	0.9816	0.0000	0.98160	0.17453	26.622	5.399	0.09191	1119.4

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NØ.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRØPY=27.4504

FLØW PROPERTIES

SHØCK ANGLE=11.0624 ENTRØPY=30.3230
GAMMA (AVG.)=1.3205 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0624	0.9814	-0.0356	0.98206	0.15681	29.377	5.388	0.08894	1237.6
10.9562	0.9815	-0.0320	0.98200	0.15860	29.684	5.431	0.08906	1240.7
10.8499	0.9815	-0.0285	0.98195	0.16037	29.957	5.469	0.08916	1243.5
10.7437	0.9816	-0.0249	0.98190	0.16212	30.197	5.502	0.08924	1245.9
10.6374	0.9816	-0.0214	0.98186	0.16387	30.405	5.530	0.08932	1248.0
10.5312	0.9817	-0.0179	0.98182	0.16561	30.583	5.555	0.08938	1249.7
10.4250	0.9817	-0.0143	0.98180	0.16736	30.730	5.575	0.08944	1251.2
10.3187	0.9817	-0.0108	0.98177	0.16912	30.847	5.591	0.08948	1252.3
10.2125	0.9817	-0.0072	0.98176	0.17090	30.931	5.603	0.08951	1253.2
10.1062	0.9817	-0.0036	0.98175	0.17270	30.984	5.610	0.08953	1253.7
10.0000	0.9817	0.0000	0.98174	0.17453	31.003	5.613	0.08953	1253.9

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NØ.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRØPY=27.4504

FLØW PROPERTIES

SHØCK ANGLE=11.0205 ENTRØPY=30.6287
GAMMA (AVG.)=1.3147 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0205	0.9816	-0.0342	0.98216	0.15747	33.924	5.583	0.08698	1379.3
10.9184	0.9816	-0.0308	0.98210	0.15920	34.265	5.625	0.08709	1382.7
10.8164	0.9817	-0.0274	0.98205	0.16090	34.568	5.663	0.08718	1385.6
10.7143	0.9817	-0.0240	0.98200	0.16259	34.835	5.696	0.08726	1388.1
10.6123	0.9818	-0.0206	0.98197	0.16427	35.067	5.725	0.08733	1390.3
10.5102	0.9818	-0.0172	0.98193	0.16595	35.265	5.750	0.08739	1392.2
10.4082	0.9818	-0.0138	0.98191	0.16763	35.429	5.770	0.08744	1393.7
10.3061	0.9818	-0.0104	0.98189	0.16933	35.558	5.786	0.08748	1395.0
10.2041	0.9818	-0.0069	0.98187	0.17104	35.652	5.798	0.08751	1395.8
10.1020	0.9819	-0.0035	0.98186	0.17277	35.710	5.805	0.08753	1396.4
10.0000	0.9819	0.0000	0.98186	0.17453	35.731	5.807	0.08753	1396.6

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=10.9851 ENTRPHY=30.9278
 GAMMA (AVG.)=1.3099 STAG. ENTHALPHY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
10.9851	0.9817	-0.0331	0.98223	0.15804	38.808	5.760	0.08532	1520.4
10.8866	0.9817	-0.0298	0.98218	0.15971	39.185	5.803	0.08542	1532.9
10.7880	0.9818	-0.0264	0.98213	0.16135	39.521	5.841	0.08550	1536.0
10.6895	0.9818	-0.0232	0.98209	0.16299	39.816	5.874	0.08558	1538.7
10.5910	0.9819	-0.0199	0.98206	0.16461	40.073	5.903	0.08565	1541.0
10.4925	0.9819	-0.0166	0.98203	0.16624	40.292	5.927	0.08570	1543.0
10.3940	0.9819	-0.0133	0.98200	0.16786	40.472	5.948	0.08575	1544.6
10.2955	0.9819	-0.0100	0.98198	0.16950	40.615	5.964	0.08578	1545.9
10.1970	0.9819	-0.0067	0.98197	0.17116	40.719	5.975	0.08581	1546.8
10.0985	0.9820	-0.0034	0.98196	0.17283	40.783	5.982	0.08583	1547.4
10.0000	0.9820	0.0000	0.98195	0.17453	40.807	5.985	0.08583	1547.6

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=10.9172 ENTRPHY=31.6449
 GAMMA (AVG.)=1.3013 STAG. ENTHALPHY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
10.9172	0.9819	-0.0309	0.98239	0.15913	52.493	6.138	0.08210	1941.2
10.8255	0.9819	-0.0278	0.98234	0.16069	52.969	6.181	0.08219	1945.3
10.7338	0.9820	-0.0247	0.98230	0.16222	53.393	6.219	0.08226	1948.9
10.6421	0.9820	-0.0216	0.98226	0.16375	53.766	6.252	0.08233	1952.0
10.5503	0.9821	-0.0185	0.98223	0.16527	54.091	6.281	0.08239	1954.8
10.4586	0.9821	-0.0155	0.98221	0.16679	54.367	6.306	0.08244	1957.1
10.3669	0.9821	-0.0124	0.98218	0.16831	54.595	6.326	0.08248	1959.0
10.2752	0.9821	-0.0093	0.98217	0.16984	54.775	6.342	0.08251	1960.5
10.1834	0.9821	-0.0062	0.98215	0.17138	54.906	6.354	0.08254	1961.5
10.0917	0.9821	-0.0031	0.98215	0.17295	54.986	6.361	0.08255	1962.2
10.0000	0.9821	-0.0000	0.98214	0.17453	55.016	6.363	0.08256	1962.5

CBNE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRAPPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=10.8696 ENTRAPPY=32.3174
GAMMA (AVG.)=1.2961 STAG. ENTHALPHY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
10.8696	0.9821	-0.0293	0.98250	0.15990	68.284	6.439	0.07982	2407.2
10.7826	0.9821	-0.0263	0.98245	0.16138	68.872	6.482	0.07990	2411.9
10.6957	0.9821	-0.0234	0.98242	0.16284	69.396	6.520	0.07997	2416.1
10.6087	0.9822	-0.0205	0.98238	0.16429	69.857	6.553	0.08003	2419.8
10.5218	0.9822	-0.0176	0.98236	0.16573	70.257	6.582	0.08009	2422.9
10.4348	0.9822	-0.0147	0.98233	0.16718	70.598	6.607	0.08013	2425.6
10.3478	0.9822	-0.0118	0.98231	0.16862	70.880	6.627	0.08017	2427.8
10.2609	0.9823	-0.0088	0.98230	0.17008	71.102	6.643	0.08020	2429.6
10.1739	0.9823	-0.0059	0.98229	0.17155	71.263	6.655	0.08022	2430.8
10.0870	0.9823	-0.0030	0.98228	0.17303	71.363	6.662	0.08023	2431.6
10.0000	0.9823	-0.0000	0.98228	0.17453	71.399	6.664	0.08024	2431.9

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=15.4056 ENTROPY=27.8636
GAMMA (AVG.)=1.3947 STAG. ENTHALPY=3.3073E 07 FT. SQ./SEC. SQ.

ETA	VR	VI	V	THETA	P	RHO	MU	T (K)
15.4056	0.9641	-0.0932	0.96855	0.17253	5.105	2.851	0.17326	406.4
15.1150	0.9645	-0.0838	0.96813	0.17718	5.209	2.892	0.17383	408.8
14.9249	0.9649	-0.0745	0.96777	0.18168	5.299	2.929	0.17431	410.8
14.7434	0.9652	-0.0653	0.96746	0.18610	5.379	2.960	0.17473	412.5
14.5724	0.9656	-0.0562	0.96718	0.19048	5.448	2.987	0.17510	414.0
14.4117	0.9658	-0.0470	0.96695	0.19488	5.508	3.011	0.17540	415.3
14.2607	0.9660	-0.0378	0.96676	0.19931	5.558	3.030	0.17566	416.3
14.1197	0.9662	-0.0286	0.96660	0.20382	5.598	3.046	0.17586	417.2
13.9881	0.9663	-0.0192	0.96649	0.20845	5.627	3.057	0.17602	417.8
13.8664	0.9664	-0.0097	0.96642	0.21321	5.646	3.065	0.17611	418.2
13.7540	0.9664	0.0000	0.96639	0.21817	5.653	3.067	0.17615	418.3

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS
MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=14.8051 ENTROPY=28.1933
GAMMA (AVG.)=1.3869 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VI	V	THETA	P	RHO	MU	T (K)
14.8051	0.9668	-0.0749	0.96969	0.18113	7.464	3.414	0.15239	496.3
14.5746	0.9671	-0.0673	0.96942	0.18489	7.589	3.455	0.15278	498.6
14.3441	0.9673	-0.0599	0.96918	0.18856	7.700	3.491	0.15312	500.6
14.1136	0.9676	-0.0525	0.96897	0.19217	7.797	3.523	0.15341	502.4
13.8831	0.9677	-0.0451	0.96879	0.19576	7.882	3.551	0.15366	503.9
13.6526	0.9679	-0.0377	0.96864	0.19936	7.955	3.574	0.15388	505.2
13.4220	0.9680	-0.0303	0.96852	0.20298	8.015	3.594	0.15405	506.2
13.1915	0.9681	-0.0228	0.96842	0.20665	8.063	3.609	0.15420	507.1
12.9610	0.9682	-0.0153	0.96834	0.21039	8.099	3.621	0.15430	507.7
12.7305	0.9683	-0.0077	0.96829	0.21422	8.121	3.628	0.15436	508.1
12.5000	0.9683	0.0000	0.96828	0.21817	8.130	3.631	0.15439	508.3

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 11890.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=14.4580 ENTRPHY=28.5680
 GAMMA (AVG.)=1.3747 STAG. ENTHALPY=7.3140E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.4560	0.9683	-0.0641	0.97044	0.18628	10.343	3.898	0.13910	602.3
14.2622	0.9685	-0.0576	0.97024	0.18951	10.494	3.939	0.13939	604.7
14.0664	0.9687	-0.0512	0.97007	0.19268	10.629	3.976	0.13965	606.8
13.8706	0.9689	-0.0449	0.96992	0.19581	10.747	4.008	0.13987	608.7
13.6748	0.9690	-0.0385	0.96978	0.19892	10.849	4.036	0.14006	610.3
13.4790	0.9691	-0.0322	0.96967	0.20203	10.937	4.059	0.14023	611.6
13.2832	0.9692	-0.0259	0.96958	0.20515	11.010	4.079	0.14036	612.7
13.0874	0.9693	-0.0195	0.96950	0.20831	11.068	4.095	0.14047	613.6
12.8916	0.9694	-0.0131	0.96945	0.21152	11.111	4.106	0.14055	614.2
12.6958	0.9694	-0.0066	0.96942	0.21480	11.138	4.113	0.14059	614.6
12.5000	0.9694	0.0000	0.96940	0.21817	11.148	4.116	0.14061	614.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=14.2339 ENTRPHY=28.9633
 GAMMA (AVG.)=1.3604 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.2339	0.9693	-0.0570	0.97097	0.18968	13.743	4.313	0.12984	723.3
14.0606	0.9695	-0.0513	0.97081	0.19257	13.925	4.355	0.13008	725.8
13.8872	0.9696	-0.0456	0.97067	0.19540	14.086	4.392	0.13029	728.0
13.7138	0.9697	-0.0399	0.97055	0.19820	14.227	4.424	0.13046	729.9
13.5404	0.9698	-0.0343	0.97045	0.20099	14.351	4.452	0.13062	731.6
13.3670	0.9699	-0.0286	0.97036	0.20378	14.456	4.476	0.13075	733.0
13.1936	0.9700	-0.0230	0.97028	0.20658	14.543	4.496	0.13086	734.2
13.0202	0.9701	-0.0173	0.97022	0.20940	14.612	4.512	0.13094	735.1
12.8468	0.9701	-0.0116	0.97018	0.21227	14.663	4.524	0.13101	735.8
12.6734	0.9701	-0.0058	0.97015	0.21518	14.695	4.531	0.13105	736.2
12.5000	0.9701	0.0000	0.97014	0.21817	14.706	4.533	0.13106	736.4

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15654.2 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=14.0770 ENTR0PY=29.3647
GAMMA (AVG.)=1.3464 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.0770	0.9700	-0.0520	0.97136	0.19210	17.667	4.675	0.12300	857.8
13.9193	0.9701	-0.0468	0.97123	0.19474	17.882	4.717	0.12320	860.5
13.7616	0.9702	-0.0416	0.97111	0.19734	18.072	4.754	0.12337	862.8
13.6039	0.9703	-0.0364	0.97101	0.19991	18.240	4.787	0.12353	864.9
13.4462	0.9704	-0.0313	0.97092	0.20246	18.385	4.815	0.12366	866.7
13.2885	0.9705	-0.0261	0.97085	0.20502	18.510	4.840	0.12377	868.2
13.1308	0.9706	-0.0210	0.97079	0.20758	18.613	4.860	0.12386	869.4
12.9731	0.9706	-0.0158	0.97074	0.21017	18.694	4.875	0.12393	870.4
12.8154	0.9706	-0.0106	0.97070	0.21279	18.754	4.887	0.12398	871.1
12.6577	0.9707	-0.0053	0.97068	0.21545	18.791	4.894	0.12401	871.5
12.5000	0.9707	0.0000	0.97067	0.21817	18.804	4.897	0.12403	871.7

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=13.9606 ENTR0PY=29.7640
GAMMA (AVG.)=1.3342 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.9606	0.9705	-0.0483	0.97166	0.19392	22.114	4.994	0.11775	1005.2
13.8145	0.9706	-0.0434	0.97155	0.19637	22.365	5.036	0.11792	1008.0
13.6685	0.9707	-0.0386	0.97145	0.19879	22.587	5.074	0.11807	1010.5
13.5224	0.9708	-0.0338	0.97136	0.20118	22.783	5.107	0.11821	1012.7
13.3763	0.9708	-0.0290	0.97128	0.20357	22.953	5.135	0.11832	1014.6
13.2303	0.9709	-0.0242	0.97122	0.20595	23.098	5.159	0.11842	1016.2
13.0842	0.9710	-0.0194	0.97116	0.20833	23.218	5.179	0.11850	1017.5
12.9382	0.9710	-0.0142	0.97112	0.21074	23.314	5.195	0.11855	1018.6
12.7921	0.9710	-0.0098	0.97109	0.21318	23.383	5.207	0.11860	1019.3
12.6461	0.9711	-0.0049	0.97107	0.21565	23.426	5.214	0.11863	1019.8
12.5000	0.9711	0.0000	0.97106	0.21817	23.442	5.217	0.11864	1020.0

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=13.8708 ENTROPY=30.1571
GAMMA (AVG.)=1.3242 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.8708	0.9708	-0.0454	0.97190	0.19533	27.085	5.277	0.11362	1165.1
13.7338	0.9709	-0.0409	0.97180	0.19764	27.374	5.319	0.11377	1168.2
13.5967	0.9710	-0.0363	0.97171	0.19992	27.631	5.357	0.11391	1170.9
13.4596	0.9711	-0.0318	0.97163	0.20217	27.858	5.390	0.11402	1173.2
13.3225	0.9712	-0.0273	0.97156	0.20442	28.054	5.419	0.11413	1175.2
13.1854	0.9713	-0.0228	0.97151	0.20666	28.222	5.443	0.11421	1176.9
13.0483	0.9713	-0.0183	0.97146	0.20892	28.361	5.463	0.11428	1178.3
12.9113	0.9713	-0.0138	0.97142	0.21118	28.470	5.479	0.11434	1179.5
12.7742	0.9714	-0.0092	0.97139	0.21348	28.550	5.491	0.11438	1180.3
12.6371	0.9714	-0.0046	0.97138	0.21580	28.600	5.498	0.11441	1180.8
12.5000	0.9714	-0.0000	0.97137	0.21817	28.618	5.501	0.11441	1181.0

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=13.7999 ENTROPY=30.5413
GAMMA (AVG.)=1.3162 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7999	0.9711	-0.0431	0.97209	0.19645	32.580	5.528	0.11030	1397.7
13.6699	0.9712	-0.0388	0.97200	0.19865	32.911	5.571	0.11044	1340.9
13.5399	0.9713	-0.0345	0.97192	0.20082	33.205	5.609	0.11056	1343.8
13.4099	0.9714	-0.0302	0.97185	0.20296	33.464	5.642	0.11067	1346.3
13.2799	0.9714	-0.0259	0.97179	0.20510	33.689	5.671	0.11076	1348.5
13.1499	0.9715	-0.0216	0.97174	0.20724	33.881	5.695	0.11084	1350.3
13.0199	0.9715	-0.0174	0.97169	0.20938	34.040	5.716	0.11091	1351.8
12.8899	0.9716	-0.0131	0.97166	0.21154	34.165	5.732	0.11096	1353.0
12.7600	0.9716	-0.0087	0.97163	0.21371	34.256	5.743	0.11100	1353.9
12.6300	0.9716	-0.0044	0.97162	0.21592	34.313	5.751	0.11102	1354.4
12.5000	0.9716	0.0000	0.97161	0.21817	34.333	5.753	0.11103	1354.6

CONE SEMI-ANGLE=12.5

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=13.7425 ENTROPY=30.9155
GAMMA (AVG.)=1.3100 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=13.6956 ENTROPY=31.2790
GAMMA (AVG.)=1.3052 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7425	0.9714	-0.0413	0.97225	0.19737	38.598	5.753	0.10760	1522.9
13.6183	0.9715	-0.0371	0.97217	0.19947	38.974	5.796	0.10773	1526.4
13.4940	0.9715	-0.0330	0.97209	0.20155	39.308	5.834	0.10784	1529.5
13.3698	0.9716	-0.0289	0.97203	0.20361	39.602	5.867	0.10794	1532.2
13.2455	0.9717	-0.0248	0.97197	0.20565	39.858	5.896	0.10803	1534.6
13.1213	0.9717	-0.0207	0.97192	0.20770	40.075	5.920	0.10810	1536.5
12.9970	0.9717	-0.0166	0.97188	0.20976	40.255	5.941	0.10816	1538.2
12.8728	0.9718	-0.0125	0.97185	0.21182	40.397	5.957	0.10821	1539.5
12.7485	0.9718	-0.0084	0.97183	0.21391	40.501	5.968	0.10824	1540.4
12.6242	0.9718	-0.0042	0.97182	0.21602	40.565	5.975	0.10826	1541.0
12.5000	0.9718	0.0000	0.97181	0.21817	40.588	5.978	0.10827	1541.2

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6956	0.9716	-0.0398	0.97238	0.19812	45.140	5.953	0.10537	1721.2
13.5760	0.9716	-0.0358	0.97230	0.20015	45.564	5.996	0.10549	1725.0
13.4564	0.9717	-0.0318	0.97223	0.20215	45.940	6.034	0.10560	1728.3
13.3369	0.9718	-0.0278	0.97217	0.20413	46.272	6.067	0.10569	1731.2
13.2173	0.9718	-0.0239	0.97212	0.20611	46.560	6.096	0.10577	1733.7
13.0978	0.9719	-0.0199	0.97208	0.20808	46.805	6.121	0.10584	1735.9
12.9782	0.9719	-0.0160	0.97204	0.21006	47.008	6.141	0.10590	1737.6
12.8587	0.9719	-0.0120	0.97201	0.21206	47.168	6.157	0.10594	1739.0
12.7391	0.9720	-0.0080	0.97199	0.21407	47.285	6.169	0.10597	1740.0
12.6195	0.9720	-0.0040	0.97198	0.21610	47.357	6.176	0.10599	1740.6
12.5000	0.9720	0.0000	0.97197	0.21817	47.383	6.178	0.10600	1740.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=13.6566 ENTROPY=31.6313
GAMMA (AVG.)=1.3014 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

EIA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6566	0.9717	-0.0385	0.97249	0.19875	52.206	6.131	0.10351	1932.7
13.5409	0.9718	-0.0346	0.97242	0.20071	52.680	6.174	0.10363	1936.7
13.4253	0.9719	-0.0308	0.97235	0.20265	53.102	6.212	0.10373	1940.3
13.3096	0.9719	-0.0270	0.97230	0.20457	53.474	6.246	0.10381	1943.5
13.1940	0.9720	-0.0231	0.97225	0.20649	53.797	6.275	0.10389	1946.2
13.0783	0.9720	-0.0193	0.97221	0.20840	54.071	6.299	0.10396	1948.5
12.9626	0.9720	-0.0155	0.97217	0.21032	54.299	6.319	0.10401	1950.4
12.8470	0.9721	-0.0116	0.97215	0.21225	54.478	6.335	0.10405	1951.9
12.7313	0.9721	-0.0078	0.97213	0.21420	54.608	6.347	0.10408	1952.9
12.6156	0.9721	-0.0039	0.97211	0.21617	54.689	6.354	0.10410	1953.6
12.5000	0.9721	-0.0000	0.97211	0.21817	54.718	6.357	0.10411	1953.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=13.6239 ENTROPY=31.9726
GAMMA (AVG.)=1.2985 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

EIA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6239	0.9719	-0.0374	0.97258	0.19927	59.795	6.291	0.10195	2157.6
13.5115	0.9719	-0.0337	0.97251	0.20118	60.323	6.333	0.10205	2162.0
13.3991	0.9720	-0.0299	0.97245	0.20307	60.793	6.371	0.10215	2165.9
13.2867	0.9720	-0.0262	0.97240	0.20494	61.208	6.405	0.10224	2169.2
13.1744	0.9721	-0.0225	0.97235	0.20681	61.567	6.434	0.10231	2172.2
13.0620	0.9721	-0.0188	0.97231	0.20867	61.874	6.458	0.10237	2174.6
12.9496	0.9722	-0.0150	0.97228	0.21054	62.127	6.479	0.10242	2176.7
12.8372	0.9722	-0.0113	0.97226	0.21241	62.326	6.495	0.10246	2178.3
12.7248	0.9722	-0.0076	0.97224	0.21431	62.471	6.506	0.10249	2179.5
12.6124	0.9722	-0.0038	0.97223	0.21622	62.561	6.514	0.10251	2180.2
12.5000	0.9722	0.0000	0.97222	0.21817	62.593	6.516	0.10251	2180.4

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 2.3-99 DEG. K
VELOCITY= 34611.0 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=13.5191 ENTRØPY=32.8355
GAMMA (AVG.)=1.1677 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

LIA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.5191	0.9723	-0.0341	0.97289	0.20089	81.049	6.854	0.09239	2675.0
13.4172	0.9723	-0.0307	0.97283	0.20265	81.707	6.901	0.09244	2678.2
13.3153	0.9724	-0.0272	0.97278	0.20439	82.291	6.943	0.09249	2681.0
13.2134	0.9724	-0.0238	0.97274	0.20611	82.804	6.979	0.09253	2683.4
13.1115	0.9725	-0.0204	0.97270	0.20782	83.249	7.011	0.09256	2685.4
13.0096	0.9725	-0.0171	0.97266	0.20952	83.627	7.037	0.09259	2687.3
12.9076	0.9725	-0.0137	0.97264	0.21123	83.938	7.060	0.09262	2688.5
12.8057	0.9726	-0.0103	0.97262	0.21294	84.184	7.077	0.09263	2689.6
12.7038	0.9726	-0.0069	0.97260	0.21466	84.362	7.090	0.09265	2690.3
12.6019	0.9726	-0.0034	0.97259	0.21640	84.471	7.097	0.09266	2691.0
12.5000	0.9726	0.0000	0.97259	0.21817	84.511	7.100	0.09266	2691.2

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=13.3926 ENTRØPY=33.6629
GAMMA (AVG.)=1.1420 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

LIA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.3926	0.9728	-0.0299	0.97327	0.20297	105.637	7.735	0.08584	3014.6
13.3033	0.9728	-0.0269	0.97322	0.20452	106.384	7.783	0.08589	3017.0
13.2141	0.9729	-0.0239	0.97318	0.20604	107.048	7.824	0.08593	3019.4
13.1248	0.9729	-0.0209	0.97315	0.20756	107.632	7.861	0.08597	3021.4
13.0355	0.9730	-0.0180	0.97312	0.20906	108.139	7.892	0.08600	3023.2
12.9463	0.9730	-0.0150	0.97309	0.21056	108.569	7.919	0.08602	3024.6
12.8570	0.9730	-0.0120	0.97307	0.21207	108.923	7.942	0.08605	3025.7
12.7678	0.9730	-0.0090	0.97306	0.21357	109.201	7.959	0.08606	3026.9
12.6785	0.9730	-0.0060	0.97304	0.21509	109.403	7.972	0.08607	3027.4
12.5892	0.9730	-0.0030	0.97304	0.21662	109.527	7.979	0.08608	3027.9
12.5000	0.9730	0.0000	0.97303	0.21817	109.572	7.982	0.08608	3028.1

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=10000.0 FEET PRESSURE=2.12701 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 403.58 DEG. R
VELOCITY= 5945.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.0051 ENTROPY=27.7495
GAMMA (AVG.)=1.3967 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.0351	0.9455	-0.1253	0.95373	0.19996	4.289	2.599	0.22615	374.5
18.6346	0.9463	-0.1126	0.95297	0.20626	4.384	2.641	0.22704	376.9
18.2041	0.9470	-0.1002	0.95231	0.21232	4.467	2.676	0.22781	378.9
17.8036	0.9477	-0.0879	0.95174	0.21827	4.541	2.708	0.22848	380.6
17.4331	0.9482	-0.0756	0.95125	0.22417	4.604	2.735	0.22905	382.1
17.0826	0.9487	-0.0633	0.95083	0.23009	4.659	2.758	0.22954	383.4
16.7521	0.9491	-0.0510	0.95047	0.23608	4.705	2.778	0.22994	384.5
16.4415	0.9494	-0.0385	0.95019	0.24220	4.742	2.793	0.23027	385.4
16.1510	0.9496	-0.0259	0.94998	0.24848	4.770	2.805	0.23051	386.0
15.8805	0.9498	-0.0131	0.94984	0.25500	4.787	2.812	0.23066	386.4
15.6300	0.9498	0.0000	0.94979	0.26180	4.794	2.815	0.23072	386.5

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=17.9219 ENTROPY=28.1176
GAMMA (AVG.)=1.3890 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.9219	0.9515	-0.0933	0.95602	0.21509	6.913	3.300	0.18968	475.6
17.6297	0.9519	-0.0839	0.95560	0.21963	7.033	3.341	0.19021	477.9
17.3375	0.9523	-0.0766	0.95523	0.22445	7.140	3.377	0.19068	479.9
17.0453	0.9527	-0.0654	0.95490	0.22900	7.233	3.409	0.19108	481.6
16.7531	0.9530	-0.0562	0.95462	0.23352	7.314	3.436	0.19143	483.1
16.4609	0.9532	-0.0470	0.95438	0.23804	7.384	3.460	0.19173	484.4
16.1687	0.9534	-0.0378	0.95419	0.24261	7.442	3.479	0.19197	485.5
15.8766	0.9535	-0.0285	0.95403	0.24723	7.488	3.495	0.19217	486.3
15.5844	0.9537	-0.0191	0.95391	0.25196	7.522	3.507	0.19231	486.9
15.2922	0.9538	-0.0096	0.95384	0.25680	7.544	3.514	0.19240	487.3
15.0000	0.9538	0.0000	0.95381	0.26180	7.552	3.516	0.19244	487.5

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=17.3821 ENTRØPY=28.5605
GAMMA (AVG.)=1.3750 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
17.0644	0.9560	-0.0670	0.95831	0.22787	14.397	4.380	0.15593	746.0
16.8580	0.9562	-0.0602	0.95809	0.23130	14.584	4.422	0.15622	748.6
16.6515	0.9564	-0.0536	0.95790	0.23468	14.750	4.459	0.15647	750.8
16.4451	0.9566	-0.0469	0.95773	0.23802	14.896	4.492	0.15669	752.8
16.2386	0.9567	-0.0403	0.95759	0.24134	15.023	4.520	0.15688	754.4
16.0322	0.9569	-0.0337	0.95746	0.24466	15.131	4.544	0.15704	755.9
15.8258	0.9570	-0.0270	0.95735	0.24799	15.221	4.564	0.15717	757.1
15.6193	0.9571	-0.0203	0.95727	0.25136	15.293	4.580	0.15728	758.0
15.4129	0.9571	-0.0136	0.95711	0.25477	15.345	4.591	0.15735	758.7
15.2064	0.9571	-0.0068	0.95717	0.25825	15.377	4.598	0.15740	759.1
15.0000	0.9572	0.0000	0.95716	0.26180	15.389	4.601	0.15742	759.2

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=17.0644 ENTRØPY=29.0339
GAMMA (AVG.)=1.3579 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
17.0644	0.9560	-0.0670	0.95831	0.22787	14.397	4.380	0.15593	746.0
16.8580	0.9562	-0.0602	0.95809	0.23130	14.584	4.422	0.15622	748.6
16.6515	0.9564	-0.0536	0.95790	0.23468	14.750	4.459	0.15647	750.8
16.4451	0.9566	-0.0469	0.95773	0.23802	14.896	4.492	0.15669	752.8
16.2386	0.9567	-0.0403	0.95759	0.24134	15.023	4.520	0.15688	754.4
16.0322	0.9569	-0.0337	0.95746	0.24466	15.131	4.544	0.15704	755.9
15.8258	0.9570	-0.0270	0.95735	0.24799	15.221	4.564	0.15717	757.1
15.6193	0.9571	-0.0203	0.95727	0.25136	15.293	4.580	0.15728	758.0
15.4129	0.9571	-0.0136	0.95711	0.25477	15.345	4.591	0.15735	758.7
15.2064	0.9571	-0.0068	0.95717	0.25825	15.377	4.598	0.15740	759.1
15.0000	0.9572	0.0000	0.95716	0.26180	15.389	4.601	0.15742	759.2

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE=16.8545 ENTRPHY=29.5137
GAMMA (AVG.)=1.3416 STAG. ENTHALPHY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VH	VN	V	THETA	P	RHB	MU	T (K)
16.8545	0.9570	-0.0604	0.95895	0.23111	19.260	4.798	0.14665	911.2
16.8670	0.9572	-0.0543	0.95877	0.23421	19.488	4.840	0.14688	913.9
16.8815	0.9574	-0.0483	0.95861	0.23727	19.690	4.878	0.14709	916.3
16.8991	0.9575	-0.0423	0.95847	0.24030	19.867	4.910	0.14727	918.4
16.9127	0.9577	-0.0363	0.95835	0.24331	20.022	4.939	0.14743	920.2
16.9272	0.9578	-0.0303	0.95824	0.24632	20.154	4.963	0.14756	921.7
16.9418	0.9579	-0.0243	0.95816	0.24934	20.263	4.983	0.14767	923.0
16.9563	0.9579	-0.0183	0.95809	0.25239	20.350	4.999	0.14776	924.0
16.9709	0.9580	-0.0123	0.95804	0.25547	20.413	5.011	0.14782	924.7
16.9854	0.9580	-0.0062	0.95801	0.25860	20.452	5.018	0.14786	925.2
16.0000	0.9580	0.0000	0.95800	0.26180	20.466	5.020	0.14787	925.4

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE=16.7051 ENTRPHY=29.9881
GAMMA (AVG.)=1.3282 STAG. ENTHALPHY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
16.7051	0.9578	-0.0557	0.95941	0.23344	24.872	5.138	0.13981	1094.5
16.5346	0.9579	-0.0501	0.95926	0.23631	25.144	5.201	0.14001	1097.4
16.3641	0.9581	-0.0446	0.95912	0.23914	25.386	5.238	0.14019	1100.0
16.1936	0.9582	-0.0390	0.95901	0.24194	25.599	5.271	0.14035	1102.3
16.0231	0.9583	-0.0335	0.95890	0.24473	25.784	5.300	0.14048	1104.3
15.8525	0.9584	-0.0280	0.95882	0.24751	25.941	5.325	0.14059	1105.9
15.6820	0.9585	-0.0224	0.95874	0.25031	26.072	5.345	0.14069	1107.3
15.5115	0.9585	-0.0169	0.95869	0.25312	26.175	5.361	0.14076	1108.4
15.3410	0.9586	-0.0113	0.95864	0.25597	26.251	5.372	0.14081	1109.2
15.1705	0.9586	-0.0057	0.95862	0.25886	26.297	5.379	0.14085	1109.6
15.0000	0.9586	0.0000	0.95861	0.26180	26.314	5.382	0.14086	1109.8

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRBPV=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.5936 ENTRBPV=30.4513
GAMMA (AVG.)=1.3179 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5936	0.9584	-0.1522	0.95977	0.23520	31.233	5.471	0.13461	1295.7
16.4343	0.9585	-0.0469	0.95964	0.23789	31.554	5.514	0.13479	1298.9
16.2749	0.9586	-0.0417	0.95952	0.24055	31.839	5.552	0.13494	1301.7
16.1155	0.9587	-0.0365	0.95941	0.24318	32.090	5.585	0.13508	1304.2
15.9562	0.9588	-0.0314	0.95932	0.24579	32.308	5.614	0.13520	1306.4
15.7968	0.9589	-0.0262	0.95925	0.24841	32.494	5.638	0.13530	1308.2
15.6375	0.9590	-0.0210	0.95918	0.25103	32.648	5.659	0.13539	1309.7
15.4781	0.9590	-0.0158	0.95913	0.25367	32.770	5.675	0.13545	1310.8
15.3187	0.9590	-0.0106	0.95910	0.25634	32.858	5.686	0.13550	1311.7
15.1594	0.9591	-0.0053	0.95907	0.25905	32.913	5.693	0.13553	1312.2
15.0000	0.9591	0.0000	0.95906	0.26180	32.933	5.696	0.13554	1312.4

CBNE SEMI-ANGLE=19.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRBPV=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.5079 ENTRBPV=30.9005
GAMMA (AVG.)=1.3103 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5079	0.9588	-0.0495	0.96005	0.23657	38.343	5.744	0.13055	1515.2
16.3571	0.9589	-0.0445	0.95993	0.23912	38.717	5.787	0.13072	1518.6
16.2063	0.9590	-0.0395	0.95983	0.24164	39.049	5.825	0.13086	1521.7
16.0555	0.9591	-0.0346	0.95973	0.24413	39.342	5.858	0.13099	1524.4
15.9047	0.9592	-0.0297	0.95965	0.24662	39.596	5.887	0.13109	1526.7
15.7539	0.9593	-0.0248	0.95958	0.24910	39.813	5.912	0.13119	1528.7
15.6031	0.9593	-0.0199	0.95952	0.25159	39.992	5.932	0.13126	1530.3
15.4524	0.9594	-0.0150	0.95948	0.25410	40.133	5.948	0.13132	1531.6
15.3016	0.9594	-0.0100	0.95945	0.25663	40.236	5.960	0.13136	1532.5
15.1508	0.9594	-0.0050	0.95943	0.25919	40.300	5.967	0.13139	1533.1
15.0000	0.9594	0.0000	0.95942	0.26180	40.323	5.969	0.13140	1533.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.4404 ENTRPHY=31.3343
GAMMA (AVG.)=1.3046 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4404	0.9591	-0.0473	0.96028	0.23765	46.202	5.982	0.12734	1753.1
16.2963	0.9592	-0.0426	0.96017	0.24009	46.633	6.025	0.12749	1756.9
16.1523	0.9593	-0.0378	0.96007	0.24250	47.016	6.063	0.12762	1760.3
16.0082	0.9594	-0.0331	0.95998	0.24489	47.354	6.096	0.12774	1763.3
15.8642	0.9595	-0.0284	0.95991	0.24727	47.648	6.125	0.12784	1765.8
15.7202	0.9596	-0.0237	0.95985	0.24965	47.897	6.150	0.12792	1768.0
15.5761	0.9596	-0.0190	0.95979	0.25204	48.104	6.170	0.12799	1769.7
15.4321	0.9596	-0.0143	0.95975	0.25444	48.267	6.186	0.12805	1771.1
15.2881	0.9597	-0.0096	0.95972	0.25686	48.385	6.198	0.12809	1772.1
15.1440	0.9597	-0.0048	0.95970	0.25931	48.459	6.205	0.12811	1772.6
15.0000	0.9597	0.0000	0.95970	0.26180	48.485	6.207	0.12812	1773.0

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.3863 ENTRPHY=31.7523
GAMMA (AVG.)=1.3003 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.3863	0.9594	-0.0456	0.96046	0.23852	54.809	6.189	0.12475	2010.1
16.2476	0.9595	-0.0410	0.96036	0.24087	55.302	6.232	0.12489	2014.2
16.1090	0.9596	-0.0364	0.96027	0.24320	55.741	6.270	0.12501	2017.9
15.9704	0.9597	-0.0319	0.96019	0.24550	56.127	6.304	0.12512	2021.1
15.8318	0.9597	-0.0274	0.96012	0.24780	56.463	6.332	0.12521	2023.9
15.6931	0.9598	-0.0229	0.96006	0.25009	56.748	6.357	0.12529	2026.3
15.5545	0.9598	-0.0183	0.96001	0.25239	56.984	6.377	0.12536	2028.2
15.4159	0.9599	-0.0138	0.95997	0.25471	57.170	6.393	0.12541	2029.8
15.2772	0.9599	-0.0092	0.95995	0.25704	57.306	6.405	0.12545	2030.9
15.1386	0.9599	-0.0046	0.95993	0.25940	57.390	6.412	0.12547	2031.6
15.0000	0.9599	-0.0000	0.95992	0.26180	57.420	6.415	0.12548	2031.8

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.3423 ENTRPHY=32.1545
GAMMA (AVG.)=1.2972 STAG. ENTHALPHY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.3423	0.9596	-0.0442	0.96061	0.23923	64.166	6.370	0.12263	2286.4
16.2081	0.9597	-0.0397	0.96052	0.24151	64.725	6.413	0.12276	2290.9
16.0738	0.9598	-0.0353	0.96043	0.24376	65.223	6.451	0.12288	2294.9
15.9396	0.9599	-0.0309	0.96036	0.24600	65.661	6.485	0.12298	2298.5
15.8054	0.9599	-0.0265	0.96029	0.24823	66.042	6.513	0.12307	2301.5
15.6711	0.9600	-0.0221	0.96023	0.25045	66.366	6.538	0.12315	2304.1
15.5369	0.9600	-0.0178	0.96019	0.25268	66.634	6.558	0.12321	2306.2
15.4027	0.9601	-0.0133	0.96015	0.25493	66.845	6.574	0.12326	2307.9
15.2685	0.9601	-0.0089	0.96013	0.25719	66.998	6.586	0.12329	2309.1
15.1342	0.9601	-0.0045	0.96011	0.25948	67.093	6.593	0.12331	2309.9
15.0000	0.9601	0.0000	0.96010	0.26180	67.127	6.596	0.12332	2310.1

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.2732 ENTRPHY=32.5765
GAMMA (AVG.)=1.1925 STAG. ENTHALPHY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.2732	0.9599	-0.0420	0.96086	0.24026	74.258	6.667	0.11483	2527.4
16.1458	0.9600	-0.0378	0.96077	0.24245	74.878	6.712	0.11490	2531.5
16.0185	0.9601	-0.0336	0.96069	0.24461	75.429	6.751	0.11496	2535.1
15.8912	0.9602	-0.0294	0.96062	0.24675	75.914	6.786	0.11502	2538.3
15.7639	0.9602	-0.0252	0.96056	0.24888	76.334	6.816	0.11507	2540.9
15.6366	0.9603	-0.0210	0.96051	0.25101	76.690	6.841	0.11510	2543.4
15.5093	0.9603	-0.0169	0.96047	0.25313	76.985	6.852	0.11514	2545.3
15.3819	0.9604	-0.0127	0.96044	0.25527	77.216	6.879	0.11516	2546.6
15.2546	0.9604	-0.0085	0.96041	0.25742	77.385	6.891	0.11518	2547.8
15.1273	0.9604	-0.0043	0.96040	0.25960	77.488	6.899	0.11519	2548.4
15.0000	0.9604	-0.0000	0.96039	0.26180	77.526	6.901	0.11519	2548.6

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.2060 ENTRPHY=32.9821
GAMMA (AVG.)=1.1597 STAG. ENTHALPY=6.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.2060	0.9603	-0.0399	0.96109	0.24133	85.117	6.997	0.11034	2741.3
16.0854	0.9603	-0.0359	0.96101	0.24342	85.792	7.044	0.11041	2744.1
15.9648	0.9604	-0.0319	0.96094	0.24547	86.391	7.086	0.11047	2746.7
15.8442	0.9605	-0.0279	0.96088	0.24751	86.918	7.122	0.11052	2748.9
15.7236	0.9605	-0.0239	0.96083	0.24953	87.375	7.155	0.11056	2750.6
15.6030	0.9606	-0.0200	0.96078	0.25155	87.763	7.182	0.11060	2752.2
15.4824	0.9606	-0.0160	0.96074	0.25357	88.083	7.204	0.11063	2753.6
15.3618	0.9606	-0.0120	0.96071	0.25560	88.334	7.222	0.11065	2754.5
15.2412	0.9607	-0.0080	0.96069	0.25764	88.517	7.234	0.11067	2755.3
15.1206	0.9607	-0.0040	0.96068	0.25970	88.629	7.242	0.11068	2755.9
15.0000	0.9607	-0.0000	0.96067	0.26179	88.670	7.245	0.11069	2756.0

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=16.0313 ENTRPHY=33.9664
GAMMA (AVG.)=1.1407 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.0313	0.9611	-0.0342	0.96172	0.24423	115.597	8.074	0.10164	3131.0
15.9282	0.9612	-0.0308	0.96166	0.24601	116.375	8.121	0.10169	3133.6
15.8251	0.9612	-0.0273	0.96161	0.24778	117.068	8.162	0.10175	3135.8
15.7219	0.9613	-0.0239	0.96156	0.24953	117.677	8.199	0.10179	3137.8
15.6188	0.9613	-0.0205	0.96152	0.25127	118.205	8.231	0.10183	3139.2
15.5157	0.9613	-0.0171	0.96149	0.25301	118.653	8.258	0.10186	3140.6
15.4125	0.9614	-0.0137	0.96146	0.25474	119.022	8.280	0.10188	3141.9
15.3094	0.9614	-0.0103	0.96144	0.25649	119.312	8.297	0.10191	3142.7
15.2063	0.9614	-0.0069	0.96142	0.25824	119.523	8.309	0.10192	3143.5
15.1031	0.9614	-0.0035	0.96141	0.26001	119.652	8.317	0.10193	3144.0
15.0000	0.9614	-0.0000	0.96141	0.26180	119.698	8.320	0.10193	3144.0

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 39635.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=15.9041 ENTRPHY=34.9402
 GAMMA AVG.=1.1569 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
15.9041	0.9617	-0.0300	0.96219	0.24637	150.774	9.126	0.09614	3492.1
15.8137	0.9618	-0.0270	0.96214	0.24793	151.657	9.171	0.09618	3495.1
15.7233	0.9618	-0.0240	0.96210	0.24948	152.443	9.212	0.09623	3497.1
15.6329	0.9618	-0.0210	0.96207	0.25101	153.136	9.248	0.09628	3499.1
15.5425	0.9619	-0.0180	0.96204	0.25254	153.736	9.279	0.09631	3500.1
15.4520	0.9619	-0.0150	0.96201	0.25407	154.247	9.305	0.09633	3502.1
15.3616	0.9619	-0.0120	0.96199	0.25560	154.667	9.327	0.09636	3503.1
15.2712	0.9619	-0.0090	0.96198	0.25714	154.996	9.344	0.09638	3504.1
15.1808	0.9619	-0.0060	0.96196	0.25868	155.235	9.358	0.09640	3504.1
15.0904	0.9620	-0.0030	0.96196	0.26023	155.382	9.363	0.09640	3505.1
15.0000	0.9620	0.0000	0.96195	0.26180	155.435	9.367	0.09641	3505.1

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.4947 ENTRPHY=27.9159
 GAMMA (AVG.)=1.3937 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.4947	0.9304	-0.1240	0.93866	0.24263	5.476	2.954	0.24365	420.8
21.0952	0.9312	-0.1115	0.93790	0.24899	5.583	2.995	0.24451	423.1
20.6958	0.9320	-0.0992	0.93723	0.25517	5.677	3.031	0.24526	425.1
20.2963	0.9326	-0.0870	0.93666	0.26125	5.759	3.063	0.24591	426.8
19.8968	0.9332	-0.0748	0.93616	0.26729	5.831	3.090	0.24648	428.3
19.4974	0.9336	-0.0626	0.93573	0.27334	5.892	3.114	0.24695	429.6
19.0979	0.9340	-0.0504	0.93538	0.27946	5.944	3.133	0.24735	430.6
18.6984	0.9343	-0.0380	0.93509	0.28568	5.985	3.149	0.24767	431.5
18.2989	0.9345	-0.0255	0.93488	0.29205	6.016	3.160	0.24790	432.1
17.8995	0.9347	-0.0129	0.93475	0.29862	6.035	3.168	0.24805	432.5
17.5000	0.9347	0.0000	0.93469	0.30543	6.042	3.170	0.24810	432.6

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=20.5002 ENTRPHY=28.3988
 GAMMA (AVG.)=1.3805 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
20.5002	0.9367	-0.0948	0.94144	0.25694	9.015	3.694	0.20749	553.9
20.2002	0.9371	-0.0852	0.94100	0.26184	9.154	3.736	0.20802	556.2
19.9002	0.9375	-0.0758	0.94060	0.26664	9.278	3.772	0.20848	558.3
19.6001	0.9379	-0.0664	0.94026	0.27138	9.386	3.804	0.20888	560.1
19.3001	0.9382	-0.0571	0.93996	0.27610	9.481	3.832	0.20922	561.6
19.0001	0.9385	-0.0477	0.93971	0.28082	9.562	3.856	0.20952	562.9
18.7001	0.9387	-0.0383	0.93950	0.28557	9.629	3.875	0.20976	564.0
18.4001	0.9389	-0.0289	0.93933	0.29038	9.683	3.891	0.20995	564.9
18.1000	0.9390	-0.0194	0.93921	0.29528	9.722	3.902	0.21009	565.5
17.8000	0.9391	-0.0098	0.93913	0.30029	9.747	3.910	0.21018	565.9
17.5000	0.9391	0.0000	0.93910	0.30543	9.756	3.912	0.21021	566.1

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.9982 ENTR0PY=28.9433

GAMMA (AVG.)=1.3611 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

L/A	VR	VN	V	THETA	P	RHO	MU	T (K)
19.9982	0.9397	-0.0796	0.94307	0.26447	13.560	4.294	0.18695	716.9
19.7483	0.9400	-0.0716	0.94275	0.26862	13.740	4.335	0.18732	719.4
19.4985	0.9403	-0.0637	0.94247	0.27269	13.900	4.372	0.18765	721.6
19.2487	0.9406	-0.0558	0.94222	0.27671	14.040	4.405	0.18794	723.5
18.9989	0.9408	-0.0479	0.94201	0.28071	14.162	4.433	0.18818	725.2
18.7491	0.9410	-0.0400	0.94183	0.28472	14.267	4.457	0.18839	726.6
18.4993	0.9411	-0.0321	0.94168	0.28874	14.353	4.477	0.18857	727.8
18.2494	0.9413	-0.0242	0.94157	0.29281	14.422	4.492	0.18870	728.7
17.9996	0.9413	-0.0162	0.94148	0.29693	14.472	4.504	0.18880	729.4
17.7498	0.9414	-0.0082	0.94142	0.30113	14.503	4.511	0.18887	729.8
17.5000	0.9414	0.0000	0.94140	0.30543	14.515	4.514	0.18889	729.9

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.6959 ENTR0PY=29.5005

GAMMA (AVG.)=1.3420 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

L/A	VR	VN	V	THETA	P	RHO	MU	T (K)
19.6959	0.9415	-0.0704	0.94412	0.26912	19.116	4.787	0.17359	906.4
19.4763	0.9417	-0.0633	0.94387	0.27279	19.342	4.830	0.17389	909.1
19.2567	0.9420	-0.0563	0.94365	0.27641	19.543	4.867	0.17415	911.5
19.0371	0.9422	-0.0493	0.94346	0.27999	19.720	4.900	0.17437	913.6
18.8175	0.9423	-0.0423	0.94329	0.28355	19.874	4.928	0.17457	915.4
18.5979	0.9425	-0.0353	0.94315	0.28711	20.005	4.952	0.17473	916.9
18.3783	0.9426	-0.0284	0.94303	0.29068	20.114	4.972	0.17487	918.2
18.1587	0.9427	-0.0213	0.94294	0.29429	20.200	4.988	0.17498	919.2
17.9392	0.9428	-0.0143	0.94287	0.29794	20.263	5.000	0.17505	919.9
17.7196	0.9428	-0.0072	0.94283	0.30165	20.302	5.007	0.17510	920.4
17.5000	0.9428	0.0000	0.94281	0.30543	20.316	5.010	0.17512	920.5

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.4931 ENTRPHY=30.0510
GAMMA (AVG.)=1.3267 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.4931	0.9427	-0.0641	0.94486	0.27229	25.682	5.203	0.16426	1120.4
19.2938	0.9429	-0.0577	0.94465	0.27564	25.961	5.245	0.16451	1123.4
19.0945	0.9431	-0.0513	0.94447	0.27894	26.208	5.283	0.16473	1126.0
18.8952	0.9432	-0.0449	0.94431	0.28222	26.426	5.316	0.16491	1128.3
18.6959	0.9434	-0.0385	0.94417	0.28547	26.615	5.345	0.16508	1130.3
18.4966	0.9435	-0.0322	0.94405	0.28873	26.776	5.369	0.16522	1132.0
18.2972	0.9436	-0.0258	0.94395	0.29200	26.910	5.389	0.16533	1133.4
18.0979	0.9437	-0.0194	0.94388	0.29529	27.015	5.405	0.16542	1134.5
17.8986	0.9437	-0.0130	0.94382	0.29862	27.093	5.417	0.16548	1135.3
17.6993	0.9438	-0.0065	0.94379	0.30199	27.140	5.424	0.16553	1135.8
17.5000	0.9438	0.0000	0.94377	0.30543	27.158	5.427	0.16554	1136.0

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15834.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.3483 ENTRPHY=30.5858
GAMMA (AVG.)=1.3154 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.3483	0.9435	-0.0596	0.94540	0.27458	33.260	5.556	0.15745	1358.8
19.1635	0.9437	-0.0536	0.94522	0.27770	33.596	5.599	0.15767	1362.1
18.9786	0.9439	-0.0477	0.94506	0.28077	33.894	5.637	0.15786	1365.0
18.7938	0.9440	-0.0417	0.94493	0.28382	34.158	5.670	0.15802	1367.5
18.6090	0.9441	-0.0358	0.94481	0.28686	34.386	5.699	0.15816	1369.7
18.4241	0.9442	-0.0299	0.94470	0.28990	34.581	5.723	0.15828	1371.5
18.2393	0.9443	-0.0240	0.94462	0.29294	34.742	5.743	0.15838	1373.1
18.0545	0.9444	-0.0180	0.94455	0.29601	34.869	5.759	0.15846	1374.3
17.8697	0.9444	-0.0121	0.94451	0.29910	34.962	5.771	0.15852	1375.1
17.6848	0.9445	-0.0061	0.94447	0.30224	35.019	5.778	0.15855	1375.7
17.5000	0.9445	0.0000	0.94446	0.30543	35.040	5.781	0.15857	1375.9

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.2406 ENTRPHY=31.1011
GAMMA (AVG.)=1.3074 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.2406	0.9441	-0.0563	0.94582	0.27629	41.848	5.857	0.15233	1621.8
19.0666	0.9443	-0.0506	0.94566	0.27924	42.248	5.900	0.15252	1625.4
18.8925	0.9444	-0.0450	0.94552	0.28214	42.603	5.938	0.15269	1628.6
18.7184	0.9446	-0.0394	0.94539	0.28503	42.916	5.971	0.15284	1631.4
18.5444	0.9447	-0.0338	0.94528	0.28790	43.188	6.000	0.15297	1633.9
18.3703	0.9448	-0.0282	0.94519	0.29077	43.419	6.025	0.15308	1635.9
18.1962	0.9448	-0.0226	0.94512	0.29365	43.611	6.045	0.15316	1637.6
18.0222	0.9449	-0.0170	0.94506	0.29654	43.762	6.061	0.15324	1638.9
17.8481	0.9449	-0.0114	0.94502	0.29946	43.872	6.073	0.15329	1639.9
17.6740	0.9450	-0.0057	0.94499	0.30243	43.940	6.080	0.15332	1640.5
17.5000	0.9450	0.0000	0.94498	0.30543	43.964	6.082	0.15333	1640.7

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.1583 ENTRPHY=31.5952
GAMMA (AVG.)=1.3018 STAG. ENTHALPY=1.9803E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.1583	0.9446	-0.0537	0.94614	0.27761	51.448	6.114	0.14838	1910.1
18.9925	0.9448	-0.0483	0.94599	0.28042	51.917	6.157	0.14856	1914.1
18.8266	0.9449	-0.0429	0.94586	0.28320	52.334	6.195	0.14871	1917.7
18.6608	0.9450	-0.0376	0.94575	0.28595	52.701	6.228	0.14885	1920.8
18.4950	0.9451	-0.0322	0.94565	0.28870	53.020	6.257	0.14897	1923.5
18.3291	0.9452	-0.0269	0.94557	0.29144	53.292	6.282	0.14907	1925.8
18.1633	0.9453	-0.0216	0.94550	0.29419	53.516	6.302	0.14915	1927.6
17.9975	0.9453	-0.0162	0.94545	0.29695	53.693	6.318	0.14921	1929.1
17.8316	0.9453	-0.0109	0.94541	0.29974	53.822	6.330	0.14926	1930.2
17.6658	0.9454	-0.0054	0.94538	0.30257	53.902	6.337	0.14929	1930.9
17.5000	0.9454	-0.0000	0.94538	0.30543	53.931	6.339	0.14930	1931.1

CRNE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.0940 ENTRPHY=32.0680
GAMMA (AVG.)=1.12978 STAG. ENTHALPY=2.4006E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.0048	0.9455	-0.0489	0.94676	0.27999	73.667	6.655	0.13585	2511.7
18.8543	0.9456	-0.0440	0.94663	0.28258	74.283	6.700	0.13594	2516.0
18.7038	0.9457	-0.0391	0.94653	0.28513	74.831	6.739	0.13602	2519.7
18.5534	0.9458	-0.0342	0.94643	0.28766	75.312	6.774	0.13609	2522.8
18.4029	0.9459	-0.0293	0.94635	0.29017	75.729	6.804	0.13614	2525.6
18.2524	0.9460	-0.0245	0.94628	0.29268	76.084	6.829	0.13619	2527.9
18.1019	0.9460	-0.0196	0.94622	0.29519	76.376	6.850	0.13624	2529.9
17.9514	0.9461	-0.0148	0.94618	0.29772	76.607	6.867	0.13627	2531.3
17.8009	0.9461	-0.0099	0.94615	0.30026	76.774	6.879	0.13629	2532.5
17.6505	0.9461	-0.0049	0.94613	0.30283	76.877	6.886	0.13631	2533.0
17.5000	0.9461	0.0000	0.94612	0.30543	76.914	6.889	0.13631	2533.3

CRNE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=19.0048 ENTRPHY=32.5528
GAMMA (AVG.)=1.1959 STAG. ENTHALPY=2.8523E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.0048	0.9455	-0.0489	0.94676	0.27999	73.667	6.655	0.13585	2511.7
18.8543	0.9456	-0.0440	0.94663	0.28258	74.283	6.700	0.13594	2516.0
18.7038	0.9457	-0.0391	0.94653	0.28513	74.831	6.739	0.13602	2519.7
18.5534	0.9458	-0.0342	0.94643	0.28766	75.312	6.774	0.13609	2522.8
18.4029	0.9459	-0.0293	0.94635	0.29017	75.729	6.804	0.13614	2525.6
18.2524	0.9460	-0.0245	0.94628	0.29268	76.084	6.829	0.13619	2527.9
18.1019	0.9460	-0.0196	0.94622	0.29519	76.376	6.850	0.13624	2529.9
17.9514	0.9461	-0.0148	0.94618	0.29772	76.607	6.867	0.13627	2531.3
17.8009	0.9461	-0.0099	0.94615	0.30026	76.774	6.879	0.13629	2532.5
17.6505	0.9461	-0.0049	0.94613	0.30283	76.877	6.886	0.13631	2533.0
17.5000	0.9461	0.0000	0.94612	0.30543	76.914	6.889	0.13631	2533.3

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NB.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=18.9130 ENTROPY=33.0241
GAMMA (AVG.)=1.1578 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RM0	MU	T (K)
18.9130	0.9460	-0.0460	0.94713	0.28146	86.306	7.040	0.12969	2759.0
18.7717	0.9461	-0.0414	0.94702	0.28390	86.986	7.088	0.12977	2761.6
18.6304	0.9462	-0.0368	0.94693	0.28631	87.589	7.129	0.12984	2764.3
18.4891	0.9463	-0.0322	0.94684	0.28870	88.120	7.166	0.12990	2766.3
18.3478	0.9464	-0.0276	0.94677	0.29107	88.580	7.198	0.12996	2768.1
18.2065	0.9464	-0.0230	0.94671	0.29343	88.970	7.224	0.13000	2769.9
18.0652	0.9465	-0.0185	0.94666	0.29580	89.292	7.247	0.13004	2771.0
17.9239	0.9465	-0.0139	0.94662	0.29818	89.546	7.265	0.13007	2771.9
17.7826	0.9465	-0.0093	0.94659	0.30057	89.729	7.277	0.13009	2772.7
17.6413	0.9466	-0.0047	0.94657	0.30299	89.843	7.285	0.13011	2773.2
17.5000	0.9466	-0.0000	0.94657	0.30543	89.884	7.288	0.13011	2773.4

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NB.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=18.8110 ENTROPY=33.4832
GAMMA (AVG.)=1.1445 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH1	MU	T (K)
18.8110	0.9466	-0.0428	0.94755	0.28314	99.976	7.535	0.12446	2944.1
18.6799	0.9467	-0.0385	0.94746	0.28541	100.704	7.583	0.12453	2946.5
18.5488	0.9468	-0.0342	0.94738	0.28765	101.351	7.624	0.12460	2949.1
18.4177	0.9468	-0.0299	0.94731	0.28986	101.921	7.661	0.12466	2951.0
18.2866	0.9469	-0.0257	0.94724	0.29207	102.414	7.693	0.12470	2952.8
18.1555	0.9469	-0.0214	0.94719	0.29427	102.833	7.720	0.12475	2954.3
18.0244	0.9470	-0.0171	0.94715	0.29648	103.178	7.742	0.12479	2955.4
17.8933	0.9470	-0.0129	0.94711	0.29869	103.450	7.760	0.12480	2956.4
17.7622	0.9470	-0.0086	0.94709	0.30091	103.647	7.772	0.12483	2957.3
17.6311	0.9471	-0.0043	0.94707	0.30316	103.768	7.780	0.12484	2957.8
17.5000	0.9471	-0.0000	0.94707	0.30543	103.812	7.783	0.12485	2957.6

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=18.7210 ENTRPHY=33.9385
 GAMMA (AVG.)=1.1406 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	AMB	MU	T (K)
18.7210	0.9471	-0.0399	0.94793	0.28463	114.661	8.043	0.12013	3120.3
18.5989	0.9472	-0.0359	0.94785	0.28675	115.437	8.089	0.12019	3123.1
18.4768	0.9472	-0.0319	0.94778	0.28883	116.127	8.131	0.12025	3125.3
18.3547	0.9473	-0.0279	0.94772	0.29091	116.733	8.168	0.12031	3127.1
18.2326	0.9474	-0.0239	0.94766	0.29297	117.259	8.199	0.12036	3128.8
18.1105	0.9474	-0.0200	0.94762	0.29502	117.706	8.226	0.12040	3130.4
17.9884	0.9474	-0.0160	0.94758	0.29708	118.074	8.248	0.12043	3131.4
17.8663	0.9475	-0.0120	0.94755	0.29914	118.363	8.266	0.12045	3132.3
17.7442	0.9475	-0.0080	0.94753	0.30122	118.572	8.278	0.12047	3133.1
17.6221	0.9475	-0.0040	0.94751	0.30331	118.701	8.286	0.12048	3133.5
17.5000	0.9475	-0.0000	0.94751	0.30543	118.747	8.289	0.12049	3133.6

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=18.5496 ENTRPHY=35.0699
 GAMMA (AVG.)=1.1609 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
18.5496	0.9480	-0.0344	0.94867	0.28751	155.813	9.256	0.11274	3541.5
18.4446	0.9481	-0.0309	0.94861	0.28933	156.711	9.301	0.11280	3544.2
18.3397	0.9482	-0.0275	0.94856	0.29112	157.511	9.341	0.11286	3546.3
18.2347	0.9482	-0.0240	0.94851	0.29291	158.215	9.377	0.11291	3548.3
18.1298	0.9482	-0.0206	0.94847	0.29468	158.827	9.408	0.11296	3550.1
18.0248	0.9483	-0.0172	0.94844	0.29646	159.346	9.434	0.11299	3551.4
17.9198	0.9483	-0.0138	0.94841	0.29824	159.773	9.455	0.11302	3552.7
17.8149	0.9483	-0.0103	0.94839	0.30002	160.108	9.472	0.11304	3553.6
17.7099	0.9483	-0.0069	0.94837	0.30181	160.351	9.484	0.11306	3554.3
17.6049	0.9484	-0.0035	0.94836	0.30361	160.500	9.492	0.11307	3554.6
17.5000	0.9484	0.0000	0.94836	0.30543	160.554	9.495	0.11308	3554.7

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRPHY=27.4504

FLM PROPERTIES

SHOCK ANGLE=18.4514 ENTRPHY=36.2099
GAMMA IAVG.=1.2054 STAG. ENTHALPHY=7.8794E 08 FT. SQ./SEC. SQ.

F/A	VN	VN	V	THETA	P	RHO	MU	T (K)
16.4514	0.9486	-0.0312	0.94910	0.28916	203.281	10.151	0.10957	4030.8
16.5563	0.9486	-0.0281	0.94906	0.29082	204.335	10.194	0.10964	4034.0
16.2611	0.9487	-0.0249	0.94901	0.29244	205.276	10.234	0.10970	4036.4
16.1660	0.9487	-0.0218	0.94897	0.29406	206.105	10.269	0.10974	4038.5
16.0708	0.9488	-0.0187	0.94894	0.29567	206.825	10.297	0.10979	4041.0
17.4757	0.9486	-0.0156	0.94891	0.29728	207.437	10.323	0.10982	4042.4
17.4406	0.9488	-0.0125	0.94889	0.29890	207.941	10.344	0.10985	4044.1
17.7454	0.9488	-0.0094	0.94887	0.30052	208.336	10.360	0.10988	4045.2
17.6403	0.9488	-0.0063	0.94886	0.30214	208.622	10.371	0.10989	4046.2
17.5451	0.9488	-0.0031	0.94885	0.30378	208.798	10.379	0.10990	4046.4
17.5000	0.9488	-0.0000	0.94885	0.30543	208.861	10.382	0.10991	4046.4

CONF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
 VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.9349 ENTRPHY=27.8517
 GAMMA (AVG.)=1.3950 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	WR	VN	V	THETA	P	RHS	MU	T (K)
24.9369	0.9067	-0.1491	0.91893	0.27220	5.021	2.827	0.29378	403.2
24.4432	0.9079	-0.1341	0.91750	0.27996	5.123	2.868	0.29500	405.5
23.9495	0.9090	-0.1193	0.91682	0.28749	5.213	2.904	0.29606	407.5
23.4558	0.9100	-0.1045	0.91590	0.29490	5.292	2.935	0.29698	409.2
22.9621	0.9108	-0.0900	0.91524	0.30227	5.360	2.963	0.29777	410.7
22.4684	0.9115	-0.0754	0.91462	0.30966	5.419	2.986	0.29844	412.0
21.9747	0.9121	-0.0606	0.91409	0.31714	5.469	3.005	0.29900	413.0
21.4810	0.9125	-0.0458	0.91367	0.32476	5.508	3.021	0.29945	413.9
20.9874	0.9128	-0.0308	0.91336	0.33258	5.538	3.033	0.29978	414.5
20.4937	0.9130	-0.0155	0.91316	0.34066	5.557	3.040	0.29999	414.9
20.0000	0.9131	0.0000	0.91308	0.34907	5.564	3.043	0.30007	415.1

CONF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. R
 VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.0242 ENTRPHY=28.1047
 GAMMA (AVG.)=1.3893 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	WR	VN	V	THETA	P	RHS	MU	T (K)
24.0943	0.9131	-0.1243	0.92194	0.28455	6.820	3.279	0.26288	472.1
23.6008	0.9140	-0.1118	0.92077	0.29106	6.939	3.321	0.26374	474.4
23.1073	0.9147	-0.0994	0.92009	0.29742	7.045	3.357	0.26449	476.4
22.6139	0.9154	-0.0871	0.91949	0.30369	7.137	3.389	0.26515	478.1
22.1205	0.9159	-0.0749	0.91890	0.30993	7.218	3.416	0.26571	479.6
21.6271	0.9164	-0.0627	0.91854	0.31618	7.287	3.440	0.26619	480.9
21.1337	0.9168	-0.0504	0.91817	0.32248	7.344	3.455	0.26659	482.0
20.6403	0.9171	-0.0380	0.91788	0.32888	7.390	3.475	0.26690	482.8
20.1469	0.9173	-0.0255	0.91766	0.33542	7.425	3.486	0.26714	483.4
20.0000	0.9174	-0.0129	0.91753	0.34213	7.446	3.493	0.26728	483.8
20.0000	0.9175	0.0000	0.91747	0.34907	7.454	3.496	0.26734	484.0

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.79 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRALPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=23.1207 ENTRALPY=28.6958
GAMMA (AVG.)=1.3702 STAG. ENTHALPY=3.3879E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
23.1207	0.9197	-0.0972	0.92479	0.29824	11.396	4.040	0.22657	640.3
22.8086	0.9202	-0.0874	0.92431	0.30337	11.557	4.082	0.22711	642.7
22.4966	0.9206	-0.0777	0.92386	0.30841	11.699	4.118	0.22757	644.8
22.1845	0.9210	-0.0681	0.92352	0.31349	11.825	4.150	0.22798	646.7
21.8724	0.9213	-0.0585	0.92320	0.31835	11.934	4.178	0.22833	648.3
21.5604	0.9216	-0.0489	0.92292	0.32331	12.027	4.202	0.22863	649.7
21.2483	0.9219	-0.0393	0.92270	0.32830	12.105	4.222	0.22888	650.8
20.9362	0.9220	-0.0296	0.92252	0.33335	12.166	4.238	0.22907	651.7
20.6241	0.9222	-0.0198	0.92239	0.33847	12.212	4.249	0.22921	652.3
20.3121	0.9222	-0.0100	0.92230	0.34370	12.240	4.256	0.22930	652.8
20.0000	0.9223	0.0000	0.92227	0.34907	12.250	4.259	0.22934	652.9

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRALPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=22.6399 ENTRALPY=29.3270
GAMMA (AVG.)=1.3476 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
22.6399	0.9229	-0.0829	0.92665	0.30555	17.277	4.643	0.20574	844.6
22.3759	0.9233	-0.0746	0.92630	0.30995	17.488	4.685	0.20612	847.3
22.1119	0.9236	-0.0663	0.92599	0.31427	17.675	4.722	0.20646	849.6
21.8479	0.9239	-0.0581	0.92572	0.31856	17.840	4.755	0.20676	851.7
21.5839	0.9241	-0.0499	0.92549	0.32282	17.984	4.783	0.20702	853.4
21.3199	0.9243	-0.0416	0.92529	0.32708	18.106	4.807	0.20723	854.9
21.0559	0.9245	-0.0334	0.92512	0.33137	18.208	4.827	0.20741	856.2
20.7919	0.9246	-0.0252	0.92499	0.33569	18.288	4.843	0.20756	857.1
20.5280	0.9247	-0.0168	0.92490	0.34007	18.347	4.855	0.20766	857.8
20.2640	0.9248	-0.0085	0.92483	0.34452	18.384	4.862	0.20772	858.3
20.0000	0.9248	0.0000	0.92481	0.34907	18.397	4.865	0.20775	858.4

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=22.3453 ENTROPY=29.9561
GAMMA (AVG.)=1.3290 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.3453	0.9249	-0.0740	0.92786	0.31013	24.465	5.135	0.19221	1081.4
22.1108	0.9252	-0.0666	0.92756	0.31406	24.734	5.178	0.19252	1084.3
21.8762	0.9254	-0.0592	0.92733	0.31794	24.973	5.215	0.19279	1086.9
21.6417	0.9257	-0.0518	0.92712	0.32178	25.184	5.248	0.19303	1089.2
21.4072	0.9259	-0.0445	0.92693	0.32560	25.366	5.277	0.19324	1091.1
21.1726	0.9260	-0.0372	0.92677	0.32943	25.522	5.301	0.19341	1092.8
20.9381	0.9262	-0.0298	0.92664	0.33327	25.651	5.322	0.19355	1094.1
20.7036	0.9263	-0.0224	0.92653	0.33714	25.753	5.338	0.19367	1095.2
20.4690	0.9263	-0.0150	0.92646	0.34105	25.828	5.349	0.19375	1096.0
20.2345	0.9264	-0.0075	0.92641	0.34502	25.874	5.356	0.19380	1096.5
20.0000	0.9264	0.0000	0.92639	0.34907	25.891	5.359	0.19382	1096.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=22.1460 ENTROPY=30.5665
GAMMA (AVG.)=1.3158 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.1468	0.9262	-0.0680	0.92871	0.31325	32.962	5.544	0.18285	1349.5
21.9321	0.9265	-0.0612	0.92847	0.31687	33.296	5.587	0.18311	1352.8
21.7174	0.9267	-0.0544	0.92826	0.32044	33.593	5.625	0.18334	1355.7
21.5027	0.9269	-0.0476	0.92808	0.32398	33.854	5.658	0.18354	1358.2
21.2881	0.9270	-0.0409	0.92792	0.32750	34.081	5.687	0.18372	1360.4
21.0734	0.9272	-0.0341	0.92779	0.33103	34.275	5.711	0.18386	1362.3
20.8587	0.9273	-0.0274	0.92768	0.33456	34.435	5.731	0.18399	1363.8
20.6440	0.9274	-0.0206	0.92759	0.33812	34.561	5.747	0.18408	1365.0
20.4293	0.9274	-0.0138	0.92752	0.34171	34.653	5.759	0.18415	1365.9
20.2147	0.9275	-0.0069	0.92748	0.34536	34.710	5.766	0.18419	1366.4
20.0000	0.9275	0.0000	0.92747	0.34907	34.731	5.769	0.18421	1366.6

CBME SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15894.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=22.0054 ENTRPHY=31.1517
GAMMA (AVG.)=1.3068 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.0054	0.9271	-0.0637	0.92933	0.31550	42.767	5.885	0.17608	1649.6
21.8049	0.9274	-0.0573	0.92912	0.31809	43.173	5.928	0.17632	1653.3
21.6043	0.9275	-0.0509	0.92894	0.32224	43.535	5.965	0.17652	1656.5
21.4038	0.9277	-0.0446	0.92878	0.32556	43.853	5.999	0.17670	1659.4
21.2033	0.9278	-0.0383	0.92864	0.32886	44.129	6.028	0.17685	1661.8
21.0027	0.9280	-0.0319	0.92852	0.33217	44.365	6.052	0.17698	1663.9
20.8022	0.9281	-0.0256	0.92842	0.33548	44.559	6.073	0.17709	1665.6
20.6016	0.9281	-0.0193	0.92834	0.33882	44.713	6.089	0.17718	1666.9
20.4011	0.9282	-0.0129	0.92829	0.34219	44.825	6.100	0.17724	1667.9
20.2005	0.9282	-0.0065	0.92825	0.34560	44.894	6.108	0.17728	1668.5
20.0000	0.9282	-0.0000	0.92824	0.34907	44.919	6.110	0.17729	1668.7

CBME SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.9011 ENTRPHY=31.7097
GAMMA (AVG.)=1.3007 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.9011	0.9278	-0.0605	0.92979	0.31717	53.881	6.169	0.17105	1982.5
21.7110	0.9280	-0.0544	0.92961	0.32039	54.367	6.212	0.17126	1986.6
21.5209	0.9282	-0.0483	0.92944	0.32357	54.799	6.250	0.17144	1990.3
21.3308	0.9283	-0.0423	0.92930	0.32673	55.180	6.283	0.17161	1993.5
21.1407	0.9285	-0.0363	0.92917	0.32988	55.511	6.312	0.17175	1996.2
20.9506	0.9286	-0.0303	0.92906	0.33302	55.793	6.337	0.17187	1998.6
20.7604	0.9287	-0.0243	0.92898	0.33617	56.026	6.357	0.17196	2000.5
20.5703	0.9287	-0.0183	0.92891	0.33934	56.210	6.373	0.17204	2002.0
20.3802	0.9288	-0.0122	0.92885	0.34254	56.343	6.385	0.17210	2003.1
20.1901	0.9288	-0.0061	0.92882	0.34578	56.426	6.392	0.17213	2003.8
20.0000	0.9288	0.0000	0.92881	0.34907	56.456	6.395	0.17214	2004.0

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.8220 ENTROPY=32.2399
GAMMA (AVG.)=1.2966 STAG. ENTHALPY=1.9083E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	TMETA	P	RHW	MU	T (K)
21.8220	0.9283	-0.0580	0.93015	0.31845	66.302	6.407	0.16720	2349.1
21.6398	0.9285	-0.0522	0.92998	0.32154	66.876	6.449	0.16740	2353.7
21.4576	0.9287	-0.0464	0.92983	0.32459	67.387	6.487	0.16757	2357.8
21.2754	0.9288	-0.0406	0.92969	0.32762	67.837	6.521	0.16772	2361.4
21.0932	0.9289	-0.0349	0.92958	0.33065	68.228	6.550	0.16785	2364.5
20.9110	0.9290	-0.0291	0.92948	0.33366	68.561	6.574	0.16794	2367.2
20.7288	0.9291	-0.0233	0.92940	0.33669	68.836	6.595	0.16805	2369.3
20.5466	0.9292	-0.0175	0.92933	0.33974	69.053	6.611	0.16813	2371.1
20.3644	0.9292	-0.0117	0.92929	0.34281	69.210	6.622	0.16818	2372.3
20.1822	0.9292	-0.0059	0.92926	0.34591	69.308	6.630	0.16821	2373.1
20.0000	0.9292	0.0000	0.92925	0.34907	69.343	6.632	0.16822	2373.3

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.6945 ENTROPY=32.7974
GAMMA (AVG.)=1.1703 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	TMETA	P	RHW	MU	T (K)
21.6945	0.9292	-0.0542	0.93075	0.32037	80.015	6.820	0.15359	2656.3
21.5251	0.9293	-0.0487	0.93059	0.32329	80.668	6.866	0.15370	2659.6
21.3556	0.9295	-0.0433	0.93046	0.32617	81.248	6.908	0.15379	2662.5
21.1861	0.9296	-0.0379	0.93034	0.32903	81.757	6.944	0.15387	2665.0
21.0167	0.9297	-0.0325	0.93024	0.33186	82.199	6.976	0.15395	2667.1
20.8472	0.9298	-0.0271	0.93015	0.33469	82.574	7.002	0.15400	2668.9
20.6778	0.9298	-0.0217	0.93008	0.33753	82.883	7.024	0.15405	2670.5
20.5083	0.9299	-0.0163	0.93003	0.34037	83.127	7.041	0.15409	2671.7
20.3389	0.9299	-0.0109	0.92999	0.34324	83.304	7.054	0.15412	2672.4
20.1694	0.9299	-0.0055	0.92996	0.34613	83.413	7.062	0.15414	2672.8
20.0000	0.9300	0.0000	0.92995	0.34907	83.452	7.064	0.15413	2673.2

CBME SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.5571 ENTRPHY=33.3230
GAMMA (AVG.)=1.1479 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.5571	0.9301	-0.0499	0.93139	0.32261	95.074	7.360	0.14613	2880.1
21.4014	0.9302	-0.0449	0.93126	0.32530	95.786	7.407	0.14622	2882.8
21.2457	0.9303	-0.0399	0.93115	0.32796	96.418	7.449	0.14630	2885.2
21.0900	0.9304	-0.0349	0.93105	0.33059	96.974	7.485	0.14637	2887.4
20.9343	0.9305	-0.0299	0.93096	0.33321	97.456	7.518	0.14644	2889.0
20.7785	0.9306	-0.0250	0.93089	0.33582	97.865	7.545	0.14649	2890.5
20.6228	0.9306	-0.0200	0.93083	0.33844	98.203	7.567	0.14654	2891.7
20.4671	0.9307	-0.0150	0.93078	0.34106	98.468	7.584	0.14658	2892.6
20.3114	0.9307	-0.0101	0.93074	0.34370	98.660	7.597	0.14660	2893.4
20.1557	0.9307	-0.0050	0.93072	0.34637	98.779	7.605	0.14661	2893.9
20.0000	0.9307	-0.0000	0.93071	0.34906	98.821	7.607	0.14662	2894.1

CBME SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.4338 ENTRPHY=33.8419
GAMMA (AVG.)=1.1408 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.4338	0.9308	-0.0461	0.93198	0.32466	111.452	7.935	0.14007	3083.6
21.2904	0.9309	-0.0414	0.93187	0.32714	112.218	7.982	0.14016	3086.2
21.1471	0.9310	-0.0368	0.93177	0.32959	112.898	8.024	0.14023	3088.3
21.0037	0.9311	-0.0322	0.93169	0.33202	113.497	8.059	0.14030	3090.6
20.8603	0.9312	-0.0276	0.93161	0.33443	114.016	8.092	0.14036	3092.0
20.7169	0.9313	-0.0230	0.93155	0.33685	114.457	8.119	0.14040	3093.5
20.5735	0.9313	-0.0185	0.93150	0.33926	114.820	8.141	0.14045	3094.7
20.4301	0.9314	-0.0139	0.93146	0.34168	115.105	8.158	0.14048	3095.8
20.2868	0.9314	-0.0093	0.93143	0.34412	115.312	8.170	0.14050	3096.5
20.1434	0.9314	-0.0046	0.93141	0.34658	115.439	8.178	0.14051	3097.0
20.0000	0.9314	-0.0000	0.93140	0.34906	115.485	8.181	0.14052	3096.9

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.3292 ENTROPY=34.3574
GAMMA (AVG.)=1.1440 STAG. ENTHALPY=3.0734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.3292	0.9315	-0.0427	0.93249	0.32641	129.143	8.509	0.13528	3276.3
21.1963	0.9316	-0.0384	0.93239	0.32870	129.962	8.555	0.13536	3279.0
21.0634	0.9317	-0.0342	0.93231	0.33098	130.691	8.596	0.13542	3281.1
20.9304	0.9318	-0.0299	0.93223	0.33323	131.332	8.632	0.13549	3283.1
20.7975	0.9318	-0.0256	0.93217	0.33548	131.889	8.664	0.13555	3284.6
20.6646	0.9319	-0.0214	0.93212	0.33772	132.361	8.691	0.13559	3285.9
20.5317	0.9319	-0.0171	0.93207	0.33997	132.750	8.712	0.13563	3287.2
20.3988	0.9319	-0.0129	0.93204	0.34222	133.056	8.730	0.13566	3288.0
20.2658	0.9320	-0.0086	0.93201	0.34448	133.277	8.743	0.13567	3288.5
20.1329	0.9320	-0.0043	0.93200	0.34676	133.413	8.750	0.13569	3288.9
20.0000	0.9320	-0.0000	0.93199	0.34907	133.462	8.753	0.13569	3289.1

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.2427 ENTROPY=34.8717
GAMMA (AVG.)=1.1550 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.2427	0.9321	-0.0400	0.93291	0.32786	148.144	9.057	0.13161	3466.7
21.1104	0.9321	-0.0360	0.93283	0.33001	149.019	9.102	0.13169	3469.3
20.9842	0.9322	-0.0320	0.93276	0.33213	149.798	9.143	0.13176	3471.6
20.8699	0.9323	-0.0280	0.93269	0.33424	150.484	9.179	0.13182	3473.4
20.7456	0.9323	-0.0240	0.93264	0.33635	151.080	9.209	0.13187	3475.2
20.6213	0.9324	-0.0200	0.93259	0.33845	151.585	9.237	0.13191	3476.3
20.4971	0.9324	-0.0160	0.93255	0.34055	152.001	9.258	0.13195	3477.4
20.3728	0.9324	-0.0120	0.93252	0.34266	152.328	9.276	0.13197	3478.1
20.2485	0.9325	-0.0080	0.93250	0.34477	152.565	9.288	0.13200	3478.8
20.1243	0.9325	-0.0040	0.93248	0.34691	152.710	9.296	0.13201	3479.3
20.0000	0.9325	-0.0000	0.93248	0.34907	152.763	9.298	0.13201	3479.5

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.1028 ENTRPHY=36.1662
GAMMA (AVG.)=1.2036 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
21.1028	0.9329	-0.0355	0.93361	0.33023	201.367	10.128	0.12684	4008.7
20.9925	0.9330	-0.0320	0.93355	0.33213	202.414	10.172	0.12692	4011.7
20.8823	0.9331	-0.0284	0.93349	0.33401	203.348	10.211	0.12699	4014.3
20.7720	0.9331	-0.0249	0.93344	0.33588	204.172	10.245	0.12705	4016.6
20.6617	0.9332	-0.0213	0.93340	0.33775	204.887	10.276	0.12709	4018.3
20.5514	0.9332	-0.0178	0.93336	0.33962	205.494	10.301	0.12714	4020.1
20.4411	0.9332	-0.0143	0.93333	0.34149	205.994	10.321	0.12717	4021.8
20.3308	0.9332	-0.0107	0.93330	0.34337	206.387	10.337	0.12720	4023.1
20.2205	0.9333	-0.0072	0.93329	0.34525	206.671	10.349	0.12722	4023.6
20.1103	0.9333	-0.0036	0.93327	0.34715	206.845	10.357	0.12723	4024.1
20.0000	0.9333	-0.0000	0.93327	0.34906	206.908	10.359	0.12724	4024.3

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=21.0914 ENTRPHY=37.5124
GAMMA (AVG.)=1.2200 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
21.0914	0.9330	-0.0352	0.93367	0.33043	262.717	10.230	0.12702	4915.7
20.9823	0.9331	-0.0316	0.93361	0.33230	264.069	10.273	0.12708	4919.5
20.8731	0.9331	-0.0281	0.93355	0.33417	265.275	10.312	0.12714	4922.7
20.7640	0.9332	-0.0246	0.93350	0.33602	266.338	10.346	0.12719	4925.6
20.6548	0.9332	-0.0211	0.93346	0.33787	267.262	10.374	0.12722	4928.1
20.5457	0.9333	-0.0176	0.93342	0.33972	268.046	10.401	0.12726	4930.3
20.4366	0.9333	-0.0141	0.93339	0.34157	268.692	10.422	0.12729	4932.0
20.3274	0.9333	-0.0106	0.93337	0.34343	269.200	10.438	0.12731	4933.3
20.2183	0.9333	-0.0071	0.93335	0.34529	269.567	10.450	0.12733	4934.2
20.1091	0.9333	-0.0035	0.93334	0.34717	269.792	10.457	0.12734	4935.0
20.0000	0.9333	0.0000	0.93333	0.34907	269.873	10.459	0.12734	4935.1

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.0020 ENTROPY=27.5579
GAMMA (AVG.)=1.3990 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.0020	0.8479	-0.2630	0.80780	0.25777	2.782	2.015	0.45083	313.5
31.0518	0.8520	-0.2365	0.88426	0.27119	2.862	2.056	0.46078	316.0
30.1016	0.8557	-0.2107	0.88126	0.28397	2.931	2.091	0.46413	318.2
29.1514	0.8589	-0.1852	0.87868	0.29647	2.990	2.121	0.46702	320.0
28.2012	0.8618	-0.1597	0.87644	0.30893	3.042	2.147	0.46953	321.6
27.2510	0.8642	-0.1342	0.87452	0.32154	3.088	2.170	0.47170	323.0
26.3008	0.8661	-0.1084	0.87289	0.33447	3.126	2.189	0.47353	324.1
25.3506	0.8677	-0.0823	0.87156	0.34788	3.158	2.205	0.47503	325.0
24.4004	0.8688	-0.0556	0.87055	0.36192	3.182	2.217	0.47616	325.7
23.4502	0.8694	-0.0283	0.86988	0.37679	3.197	2.225	0.47691	326.2
22.5000	0.8696	-0.0000	0.86961	0.39270	3.203	2.228	0.47719	326.4

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=28.9815 ENTROPY=27.7397
GAMMA (AVG.)=1.3968 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9815	0.8747	-0.1881	0.89473	0.29396	4.217	2.575	0.36524	371.7
28.3333	0.8767	-0.1692	0.89290	0.30388	4.311	2.616	0.36721	374.0
27.6852	0.8785	-0.1506	0.89132	0.31347	4.394	2.652	0.36891	376.0
27.0370	0.8801	-0.1321	0.88995	0.32289	4.466	2.683	0.37039	377.8
26.3889	0.8815	-0.1137	0.88877	0.33228	4.529	2.710	0.37166	379.3
25.7407	0.8826	-0.0953	0.88775	0.34172	4.583	2.734	0.37275	380.6
25.0926	0.8836	-0.0768	0.88690	0.35129	4.629	2.753	0.37367	381.7
24.4444	0.8843	-0.0580	0.88622	0.36110	4.666	2.769	0.37440	382.5
23.7963	0.8848	-0.0391	0.88571	0.37120	4.693	2.780	0.37494	383.2
23.1481	0.8852	-0.0197	0.88538	0.38171	4.711	2.788	0.37529	383.6
22.5000	0.8852	0.0000	0.88525	0.39270	4.717	2.791	0.37542	383.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4956.4 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.5058 ENTRBPY=27.9984
GAMMA (AVG.)=1.3919 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.5058	0.8869	-0.1488	0.89933	0.31386	6.060	3.104	0.31509	443.2
27.0052	0.8882	-0.1338	0.89818	0.32179	6.172	3.145	0.31632	445.5
26.5046	0.8892	-0.1190	0.89718	0.32953	6.271	3.181	0.31740	447.5
26.0040	0.8902	-0.1044	0.89631	0.33715	6.358	3.213	0.31834	449.2
25.5035	0.8910	-0.0897	0.89555	0.34475	6.433	3.240	0.31914	450.7
25.0029	0.8918	-0.0751	0.89491	0.35236	6.498	3.263	0.31983	452.0
24.5023	0.8923	-0.0604	0.89437	0.36006	6.552	3.283	0.32040	453.0
24.0017	0.8928	-0.0456	0.89394	0.36789	6.596	3.299	0.32086	453.9
23.5012	0.8931	-0.0306	0.89362	0.37590	6.628	3.310	0.32120	454.5
23.0006	0.8933	-0.0154	0.89342	0.38415	6.648	3.317	0.32141	454.9
22.5000	0.8933	0.0000	0.89334	0.39270	6.656	3.320	0.32149	455.0

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.6674 ENTRBPY=28.3075
GAMMA (AVG.)=1.3835 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6674	0.8936	-0.1256	0.90239	0.32582	8.311	3.574	0.28385	527.9
26.2507	0.8945	-0.1129	0.90157	0.33255	8.445	3.615	0.28474	530.2
25.8339	0.8952	-0.1004	0.90085	0.33915	8.562	3.652	0.28551	532.3
25.4172	0.8959	-0.0880	0.90022	0.34567	8.666	3.683	0.28618	534.0
25.0005	0.8965	-0.0757	0.89968	0.35215	8.756	3.711	0.28676	535.6
24.5837	0.8970	-0.0633	0.89922	0.35866	8.833	3.735	0.28725	536.9
24.1670	0.8974	-0.0508	0.89883	0.36521	8.897	3.754	0.28766	537.9
23.7502	0.8977	-0.0383	0.89853	0.37185	8.948	3.770	0.28798	538.8
23.3335	0.8979	-0.0257	0.89830	0.37862	8.986	3.781	0.28822	539.4
22.9167	0.8981	-0.0129	0.89816	0.38556	9.010	3.789	0.28837	539.8
22.5000	0.8981	0.0000	0.89810	0.39270	9.019	3.791	0.28842	540.0

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=25.7723 ENTRØPY=28.9955
GAMMA (AVG.)=1.3592 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.7723	0.9005	-0.1001	0.90606	0.33912	14.039	4.344	0.24695	733.6
25.4451	0.9011	-0.0900	0.90554	0.34452	14.223	4.386	0.24750	736.1
25.1178	0.9015	-0.0800	0.90508	0.34984	14.386	4.423	0.24798	738.4
24.7906	0.9020	-0.0701	0.90468	0.35510	14.530	4.455	0.24841	740.3
24.4634	0.9023	-0.0602	0.90433	0.36033	14.655	4.483	0.24877	742.0
24.1361	0.9026	-0.0503	0.90403	0.36557	14.761	4.507	0.24909	743.4
23.8089	0.9029	-0.0404	0.90379	0.37084	14.850	4.527	0.24934	744.6
23.4817	0.9031	-0.0304	0.90360	0.37617	14.920	4.543	0.24954	745.5
23.1544	0.9032	-0.0204	0.90345	0.38157	14.971	4.554	0.24969	746.2
22.8272	0.9033	-0.0102	0.90336	0.38707	15.004	4.562	0.24978	746.6
22.5000	0.9033	0.0000	0.90333	0.39270	15.015	4.564	0.24982	746.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=25.3017 ENTRØPY=29.7036
GAMMA (AVG.)=1.3359 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.3017	0.9041	-0.0864	0.90818	0.34634	21.404	4.948	0.22567	982.0
25.0215	0.9045	-0.0777	0.90779	0.35102	21.648	4.990	0.22608	984.8
24.7414	0.9048	-0.0691	0.90745	0.35563	21.865	5.027	0.22644	987.2
24.4612	0.9051	-0.0605	0.90714	0.36020	22.057	5.060	0.22675	989.4
24.1810	0.9054	-0.0519	0.90688	0.36474	22.223	5.089	0.22702	991.3
23.9008	0.9056	-0.0434	0.90666	0.36929	22.365	5.113	0.22725	992.9
23.6207	0.9058	-0.0348	0.90648	0.37386	22.482	5.133	0.22744	994.2
23.3405	0.9060	-0.0262	0.90634	0.37847	22.575	5.149	0.22759	995.2
23.0603	0.9061	-0.0175	0.90623	0.38313	22.643	5.161	0.22770	996.0
22.7802	0.9061	-0.0088	0.90616	0.38787	22.685	5.168	0.22777	996.4
22.5000	0.9061	0.0000	0.90614	0.39270	22.701	5.170	0.22780	996.6

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=25.0108 ENTRBPY=30.3948
GAMMA (AVG.)=1.3191 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
25.0108	0.9062	-0.0778	0.90956	0.35089	30.406	5.435	0.21196	1269.9
24.7597	0.9065	-0.0700	0.90924	0.35511	30.720	5.478	0.21229	1273.0
24.5086	0.9068	-0.0622	0.90896	0.35927	31.000	5.515	0.21258	1275.8
24.2576	0.9071	-0.0545	0.90871	0.36340	31.246	5.549	0.21284	1278.3
24.0065	0.9073	-0.0467	0.90850	0.36751	31.460	5.577	0.21306	1280.4
23.7554	0.9075	-0.0390	0.90832	0.37162	31.642	5.602	0.21324	1282.2
23.5043	0.9076	-0.0313	0.90817	0.37575	31.793	5.622	0.21340	1283.6
23.2532	0.9078	-0.0236	0.90806	0.37991	31.912	5.638	0.21352	1284.8
23.0022	0.9078	-0.0158	0.90797	0.38411	31.999	5.650	0.21361	1285.6
22.7511	0.9079	-0.0079	0.90792	0.38836	32.053	5.657	0.21366	1286.2
22.5000	0.9079	-0.0000	0.90790	0.39270	32.072	5.660	0.21368	1286.4

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.8151 ENTRBPY=31.0563
GAMMA (AVG.)=1.3080 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.8151	0.9077	-0.0720	0.91051	0.35399	41.046	5.832	0.20256	1597.5
24.5836	0.9079	-0.0647	0.91024	0.35790	41.440	5.875	0.20285	1601.1
24.3521	0.9082	-0.0575	0.91000	0.36176	41.789	5.913	0.20310	1604.2
24.1206	0.9084	-0.0504	0.90979	0.36558	42.098	5.946	0.20332	1607.0
23.8891	0.9086	-0.0432	0.90961	0.36939	42.365	5.975	0.20351	1609.4
23.6576	0.9087	-0.0361	0.90945	0.37321	42.594	6.000	0.20367	1611.4
23.4261	0.9089	-0.0289	0.90933	0.37703	42.782	6.020	0.20380	1613.1
23.1945	0.9090	-0.0218	0.90923	0.38088	42.931	6.036	0.20391	1614.4
22.9630	0.9090	-0.0146	0.90915	0.38476	43.039	6.048	0.20398	1615.4
22.7315	0.9091	-0.0073	0.90911	0.38870	43.107	6.055	0.20403	1616.0
22.5000	0.9091	-0.0000	0.90909	0.39270	43.131	6.058	0.20405	1616.2

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.6768 ENTRØPY=31.6838
GAMMA (AVG.)=1.3010 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.6768	0.9087	-0.0678	0.91120	0.35620	53.324	6.157	0.19585	1966.0
24.4592	0.9089	-0.0610	0.91096	0.35988	53.806	6.200	0.19611	1970.1
24.2415	0.9091	-0.0542	0.91075	0.36352	54.235	6.237	0.19633	1973.7
24.0238	0.9093	-0.0475	0.91056	0.36714	54.613	6.271	0.19653	1976.9
23.8061	0.9095	-0.0407	0.91040	0.37073	54.941	6.300	0.19670	1979.6
23.5884	0.9096	-0.0340	0.91026	0.37433	55.221	6.324	0.19684	1981.9
23.3707	0.9097	-0.0273	0.91015	0.37794	55.452	6.345	0.19696	1983.8
23.1530	0.9098	-0.0205	0.91006	0.38157	55.634	6.361	0.19705	1985.4
22.9354	0.9099	-0.0137	0.90999	0.38523	55.767	6.372	0.19712	1986.4
22.7177	0.9099	-0.0069	0.90995	0.38894	55.849	6.380	0.19716	1987.1
22.5000	0.9099	0.0000	0.90994	0.39270	55.878	6.382	0.19718	1987.4

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.5755 ENTRØPY=32.2768
GAMMA (AVG.)=1.2964 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.5755	0.9094	-0.0648	0.91171	0.35783	67.241	6.422	0.19090	2376.6
24.3680	0.9096	-0.0583	0.91150	0.36135	67.821	6.465	0.19113	2381.3
24.1604	0.9098	-0.0518	0.91130	0.36483	68.338	6.503	0.19134	2385.5
23.9529	0.9100	-0.0453	0.91113	0.36828	68.793	6.536	0.19152	2389.1
23.7453	0.9102	-0.0389	0.91098	0.37172	69.189	6.565	0.19168	2392.2
23.5378	0.9103	-0.0325	0.91086	0.37516	69.525	6.590	0.19181	2394.9
23.3302	0.9104	-0.0260	0.91075	0.37861	69.803	6.610	0.19192	2397.1
23.1226	0.9105	-0.0196	0.91067	0.38207	70.023	6.626	0.19200	2398.8
22.9151	0.9105	-0.0131	0.91061	0.38557	70.182	6.638	0.19207	2400.0
22.7075	0.9106	-0.0066	0.91058	0.38911	70.281	6.645	0.19210	2400.8
22.5000	0.9106	0.0000	0.91056	0.39270	70.316	6.648	0.19212	2401.1

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.4052 ENTROPY=32.8984
 GAMMA (AVG.)=1.1839 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.4052	0.9106	-0.0598	0.91260	0.36042	82.777	6.914	0.17377	2704.5
24.2147	0.9108	-0.0537	0.91241	0.36370	83.442	6.960	0.17389	2707.8
24.0241	0.9110	-0.0477	0.91225	0.36694	84.033	7.002	0.17400	2710.1
23.8336	0.9111	-0.0418	0.91210	0.37015	84.552	7.038	0.17410	2712.7
23.6431	0.9113	-0.0358	0.91198	0.37334	85.002	7.070	0.17419	2714.5
23.4526	0.9114	-0.0299	0.91187	0.37653	85.384	7.097	0.17425	2716.3
23.2621	0.9115	-0.0240	0.91178	0.37971	85.699	7.120	0.17431	2717.5
23.0715	0.9115	-0.0180	0.91171	0.38291	85.947	7.137	0.17436	2718.6
22.8810	0.9116	-0.0120	0.91166	0.38614	86.127	7.149	0.17439	2719.4
22.6905	0.9116	-0.0060	0.91163	0.38936	86.238	7.157	0.17441	2719.9
22.5000	0.9116	-0.0000	0.91162	0.39269	86.278	7.161	0.17442	2719.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.2314 ENTROPY=33.4838
 GAMMA (AVG.)=1.1446 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.2314	0.9119	-0.0545	0.91352	0.36328	99.997	7.537	0.16462	2943.9
24.0583	0.9120	-0.0490	0.91336	0.36627	100.725	7.584	0.16473	2946.6
23.8852	0.9122	-0.0435	0.91322	0.36922	101.372	7.626	0.16484	2948.9
23.7120	0.9123	-0.0381	0.91310	0.37215	101.942	7.663	0.16492	2951.0
23.5389	0.9124	-0.0326	0.91300	0.37506	102.435	7.694	0.16500	2952.9
23.3657	0.9125	-0.0272	0.91291	0.37797	102.854	7.722	0.16505	2954.0
23.1926	0.9126	-0.0218	0.91283	0.38088	103.199	7.744	0.16511	2955.4
23.0194	0.9126	-0.0164	0.91278	0.38380	103.470	7.762	0.16515	2956.2
22.8463	0.9127	-0.0110	0.91274	0.38673	103.667	7.774	0.16519	2957.0
22.6731	0.9127	-0.0055	0.91271	0.38970	103.786	7.782	0.16520	2957.7
22.5000	0.9127	-0.0000	0.91270	0.39270	103.832	7.785	0.16521	2957.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=24.0826 ENTRPHY=34.0627
 GAMMA (AVG.)=1.1410 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	Vx	Vy	Vz	U	W	T (F)	
24.0826	0.9130	-0.0499	0.91432	0.36575	118.861	8.182	0.15745	3167.2	23.9601	0.9139	-0.0461	0.91499	0.36780	139.467	8.812	3340.3
23.9244	0.9131	-0.0448	0.91419	0.36868	119.649	8.229	0.15754	3169.6	23.8141	0.9139	-0.0414	0.91466	0.37037	140.216	8.898	3342.9
23.7661	0.9132	-0.0399	0.91407	0.37118	120.350	8.269	0.15764	3172.0	23.6681	0.9140	-0.0368	0.91474	0.37281	140.972	8.999	3345.2
23.6078	0.9133	-0.0349	0.91397	0.37367	120.967	8.306	0.15771	3173.9	23.5221	0.9141	-0.0322	0.91469	0.37529	141.649	9.035	3346.9
23.4496	0.9134	-0.0299	0.91388	0.37654	121.502	8.338	0.15777	3175.5	23.3761	0.9142	-0.0276	0.91467	0.37776	142.215	9.066	3348.5
23.2913	0.9135	-0.0249	0.91381	0.37920	121.956	8.364	0.15784	3177.0	23.2300	0.9143	-0.0231	0.91458	0.38023	142.795	9.093	3349.9
23.1330	0.9135	-0.0200	0.91374	0.38187	122.330	8.387	0.15789	3177.9	23.0840	0.9143	-0.0185	0.91450	0.38269	143.109	9.115	3351.0
22.9748	0.9136	-0.0150	0.91370	0.38455	122.624	8.404	0.15792	3178.9	22.9380	0.9144	-0.0139	0.91446	0.38517	143.426	9.133	3351.8
22.8165	0.9136	-0.0100	0.91366	0.38724	122.837	8.416	0.15795	3179.8	22.7920	0.9144	-0.0093	0.91443	0.38766	143.655	9.145	3352.6
22.6583	0.9136	-0.0050	0.91364	0.38995	122.968	8.424	0.15796	3180.0	22.6460	0.9144	-0.0046	0.91441	0.39015	143.787	9.152	3353.1
22.5000	0.9136	-0.0000	0.91363	0.39270	123.015	8.427	0.15797	3180.2	22.5000	0.9144	-0.0000	0.91440	0.39270	143.847	9.155	3353.6

SHOCK ANGLE=23.9601

ENTRPHY=34.0627

GAMMA (AVG.)=1.1410

STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=23.8631 ENTROPY=35.2143
GAMMA (AVG.)=1.1656 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.
GAMMA (AVG.)=1.1881 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.8631	0.9145	-0.0431	0.91553	0.36943	161.514	9.394	0.14811	3597.5
23.7268	0.9146	-0.0387	0.91543	0.37178	162.429	9.438	0.14819	3600.3
23.5905	0.9147	-0.0344	0.91534	0.37411	163.244	9.479	0.14828	3602.4
23.4542	0.9148	-0.0301	0.91527	0.37643	163.962	9.515	0.14835	3604.2
23.3179	0.9148	-0.0258	0.91520	0.37874	164.586	9.545	0.14841	3606.1
23.1816	0.9149	-0.0216	0.91515	0.38104	165.115	9.571	0.14846	3607.4
23.0452	0.9149	-0.0173	0.91510	0.38335	165.551	9.593	0.14850	3608.6
22.9089	0.9150	-0.0130	0.91506	0.38566	165.893	9.610	0.14854	3609.4
22.7726	0.9150	-0.0087	0.91504	0.38799	166.141	9.622	0.14856	3610.1
22.6363	0.9150	-0.0043	0.91502	0.39033	166.293	9.630	0.14857	3610.5
22.5000	0.9150	-0.0000	0.91502	0.39270	166.347	9.632	0.14858	3610.6

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=23.7909 ENTROPY=35.7930
GAMMA (AVG.)=1.1881 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.
GAMMA (AVG.)=1.1881 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.7909	0.9150	-0.0408	0.91593	0.37066	185.298	9.884	0.14564	3835.7
23.6618	0.9151	-0.0367	0.91585	0.37288	186.288	9.928	0.14573	3838.5
23.5327	0.9152	-0.0326	0.91577	0.37508	187.172	9.968	0.14581	3840.7
23.4036	0.9153	-0.0286	0.91570	0.37728	187.951	10.003	0.14588	3842.7
23.2745	0.9153	-0.0245	0.91564	0.37947	188.627	10.034	0.14594	3844.4
23.1454	0.9154	-0.0204	0.91559	0.38165	189.201	10.059	0.14599	3846.4
23.0164	0.9154	-0.0164	0.91555	0.38384	189.673	10.080	0.14603	3847.5
22.8873	0.9154	-0.0123	0.91552	0.38603	190.044	10.097	0.14606	3848.3
22.7582	0.9155	-0.0082	0.91549	0.38824	190.313	10.108	0.14609	3849.4
22.6291	0.9155	-0.0041	0.91548	0.39046	190.478	10.117	0.14610	3849.3
22.5000	0.9155	0.0000	0.91547	0.39270	190.537	10.119	0.14610	3849.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=23.7486 ENTRPHY=37.2868
 GAMMA (AVG.)=1.2214 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
23.7486	0.9153	-0.0395	0.91617	0.37138	251.881	10.200	0.14525	4767.1
23.6238	0.9154	-0.0355	0.91609	0.37353	253.181	10.242	0.14534	4771.3
23.4989	0.9155	-0.0316	0.91602	0.37566	254.340	10.280	0.14542	4774.8
23.3740	0.9155	-0.0276	0.91595	0.37778	255.363	10.313	0.14549	4778.2
23.2492	0.9156	-0.0237	0.91590	0.37989	256.250	10.343	0.14554	4780.6
23.1243	0.9156	-0.0198	0.91585	0.38201	257.005	10.367	0.14560	4783.2
22.9994	0.9157	-0.0158	0.91581	0.38412	257.626	10.388	0.14564	4785.1
22.8746	0.9157	-0.0119	0.91578	0.38625	258.113	10.404	0.14567	4786.5
22.7497	0.9157	-0.0079	0.91576	0.38838	258.466	10.415	0.14569	4787.8
22.6249	0.9157	-0.0040	0.91575	0.39053	258.683	10.422	0.14571	4788.2
22.5000	0.9157	-0.0000	0.91574	0.39270	258.760	10.425	0.14571	4788.5

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 39635.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=23.6832 ENTRPHY=38.7908
 GAMMA (AVG.)=1.1786 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
23.6832	0.9158	-0.0375	0.91655	0.37246	328.700	10.720	0.13904	5655.4
23.5649	0.9159	-0.0337	0.91647	0.37449	330.310	10.765	0.13910	5658.8
23.4465	0.9159	-0.0300	0.91641	0.37652	331.747	10.804	0.13915	5662.0
23.3282	0.9160	-0.0262	0.91635	0.37854	333.013	10.840	0.13920	5664.6
23.2099	0.9160	-0.0225	0.91630	0.38055	334.113	10.870	0.13924	5667.1
23.0916	0.9161	-0.0188	0.91626	0.38255	335.046	10.895	0.13927	5669.2
22.9733	0.9161	-0.0150	0.91622	0.38456	335.814	10.917	0.13929	5670.8
22.8550	0.9161	-0.0113	0.91620	0.38658	336.417	10.934	0.13932	5672.1
22.7366	0.9161	-0.0075	0.91618	0.38861	336.853	10.945	0.13933	5673.1
22.6183	0.9162	-0.0038	0.91616	0.39064	337.121	10.953	0.13934	5673.6
22.5000	0.9162	-0.0000	0.91616	0.39270	337.217	10.956	0.13934	5673.8

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 2972.7 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.6953 ENTR0PY=27.6068
 GAMMA (AVG.)=1.3985 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5558	0.8521	-0.2579	0.86349	0.29881	3.201	2.196	0.48459	330.9
30.9002	0.8541	-0.2319	0.85997	0.31240	3.285	2.237	0.48868	333.3
30.2446	0.8559	-0.2066	0.85696	0.32546	3.358	2.272	0.49219	335.4
29.5890	0.8575	-0.1815	0.85436	0.33829	3.421	2.303	0.49523	337.2
28.9335	0.8588	-0.1565	0.85211	0.35111	3.477	2.330	0.49787	338.8
28.2779	0.8600	-0.1314	0.85018	0.36407	3.525	2.353	0.50015	340.1
27.6223	0.8610	-0.1060	0.84854	0.37733	3.565	2.372	0.50207	341.2
26.9667	0.8617	-0.0804	0.84722	0.39104	3.598	2.388	0.50364	342.1
26.3111	0.8622	-0.0542	0.84621	0.40532	3.624	2.400	0.50482	342.8
25.6556	0.8625	-0.0275	0.84555	0.42036	3.640	2.407	0.50558	343.2
25.0000	0.8626	-0.0000	0.84529	0.43633	3.646	2.410	0.50587	343.4

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 3963.5 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.5558 ENTR0PY=27.8414
 GAMMA (AVG.)=1.3951 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5558	0.8521	-0.1865	0.87226	0.33525	4.948	2.805	0.38982	400.3
30.9002	0.8541	-0.1678	0.87091	0.34535	5.049	2.847	0.39185	402.6
30.2446	0.8559	-0.1493	0.86880	0.35518	5.138	2.882	0.39362	404.6
29.5890	0.8575	-0.1310	0.86740	0.36487	5.216	2.914	0.39515	406.4
28.9335	0.8588	-0.1127	0.86619	0.37453	5.285	2.941	0.39648	407.9
28.2779	0.8600	-0.0944	0.86516	0.38424	5.343	2.964	0.39762	409.1
27.6223	0.8610	-0.0760	0.86430	0.39409	5.392	2.984	0.39857	410.2
26.9667	0.8617	-0.0574	0.86360	0.40414	5.432	2.999	0.39933	411.1
26.3111	0.8622	-0.0386	0.86308	0.41448	5.461	3.011	0.39989	411.7
25.6556	0.8625	-0.0195	0.86275	0.42518	5.480	3.018	0.40025	412.1
25.0000	0.8626	0.0000	0.86262	0.43633	5.487	3.021	0.40038	412.2

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 4954.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=30.1334 ENTROPY=28.5156
 GAMMA (AVG.)=1.3079 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.1334	0.8648	-0.1494	0.87764	0.35481	7.195	3.359	0.33057	486.2
29.6201	0.8661	-0.1344	0.87645	0.36299	7.317	3.400	0.33985	488.5
29.1067	0.8672	-0.1196	0.87541	0.37100	7.426	3.436	0.34097	490.5
28.5934	0.8682	-0.1048	0.87451	0.37890	7.521	3.468	0.34194	492.2
28.0800	0.8691	-0.0901	0.87372	0.38678	7.604	3.496	0.34279	493.8
27.5667	0.8698	-0.0754	0.87305	0.39468	7.675	3.519	0.34351	495.0
27.0534	0.8704	-0.0606	0.87249	0.40266	7.734	3.539	0.34410	496.1
26.5400	0.8708	-0.0457	0.87205	0.41077	7.782	3.554	0.34458	496.9
26.0267	0.8712	-0.0307	0.87172	0.41905	7.817	3.566	0.34493	497.6
25.5133	0.8714	-0.0155	0.87151	0.42755	7.839	3.573	0.34515	498.0
25.0000	0.8714	0.0000	0.87143	0.43633	7.847	3.576	0.34523	498.1

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 5945.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.3244 ENTROPY=28.5179
 GAMMA (AVG.)=1.3765 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.3244	0.8718	-0.1276	0.88112	0.36651	9.940	3.839	0.30666	587.7
28.8920	0.8727	-0.1147	0.88025	0.37353	10.088	3.880	0.30758	590.1
28.4595	0.8736	-0.1020	0.87949	0.38042	10.219	3.917	0.30839	592.2
28.0271	0.8743	-0.0894	0.87883	0.38724	10.334	3.949	0.30909	594.0
27.5946	0.8749	-0.0768	0.87825	0.39403	10.434	3.977	0.30970	595.6
27.1622	0.8754	-0.0642	0.87776	0.40083	10.520	4.000	0.31021	596.9
26.7297	0.8758	-0.0516	0.87735	0.40768	10.591	4.020	0.31064	598.0
26.2973	0.8762	-0.0389	0.87703	0.41462	10.648	4.036	0.31098	598.9
25.8649	0.8764	-0.0261	0.87679	0.42169	10.689	4.047	0.31123	599.5
25.4324	0.8765	-0.0131	0.87664	0.42891	10.716	4.054	0.31139	599.9
25.0000	0.8766	0.0000	0.87658	0.43633	10.725	4.057	0.31144	600.1

CBNE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.327DE 01 PSF
DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=28.4495 ENTRPHY=29.2928
GAMMA (AVG.)=1.3488 STAG. ENTHALPY=3.3073E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.4495	0.8792	-0.1033	0.88527	0.37963	16.927	4.614	0.26675	832.8
28.1045	0.8798	-0.0929	0.88470	0.38535	17.135	4.656	0.26934	835.4
27.7596	0.8803	-0.0826	0.88420	0.39097	17.319	4.693	0.26986	837.7
27.4146	0.8808	-0.0723	0.88376	0.39654	17.482	4.725	0.27031	839.8
27.0697	0.8812	-0.0621	0.88338	0.40209	17.623	4.754	0.27070	841.5
26.7247	0.8815	-0.0519	0.88305	0.40764	17.744	4.778	0.27103	843.0
26.3798	0.8818	-0.0416	0.88278	0.41323	17.844	4.798	0.27130	844.2
26.0348	0.8820	-0.0314	0.88257	0.41886	17.924	4.814	0.27152	845.2
25.6899	0.8822	-0.0210	0.88242	0.42458	17.982	4.825	0.27167	845.9
25.3449	0.8823	-0.0106	0.88232	0.43039	18.018	4.832	0.27177	846.3
25.0000	0.8823	0.0000	0.88228	0.43633	18.031	4.835	0.27181	846.5

CBNE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9968.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.9822 ENTRPHY=30.0685
GAMMA (AVG.)=1.3262 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.9822	0.8831	-0.0900	0.88766	0.38685	25.911	5.215	0.24694	1127.7
27.6840	0.8835	-0.0809	0.88722	0.39184	26.191	5.258	0.24738	1130.7
27.3857	0.8839	-0.0719	0.88684	0.39676	26.439	5.295	0.24777	1133.4
27.0875	0.8843	-0.0630	0.88651	0.40164	26.659	5.328	0.24811	1135.7
26.7893	0.8846	-0.0541	0.88622	0.40650	26.849	5.357	0.24840	1137.7
26.4911	0.8848	-0.0452	0.88597	0.41136	27.011	5.381	0.24865	1139.3
26.1929	0.8850	-0.0362	0.88577	0.41624	27.146	5.402	0.24886	1140.7
25.8946	0.8852	-0.0273	0.88561	0.42116	27.252	5.418	0.24902	1141.8
25.5964	0.8853	-0.0182	0.88549	0.42614	27.330	5.429	0.24914	1142.6
25.2982	0.8854	-0.0092	0.88541	0.43119	27.378	5.436	0.24921	1143.1
25.0000	0.8854	0.0000	0.88539	0.43633	27.395	5.439	0.24924	1143.3

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.6927 ENTROPY=30.8138
 GAMMA (AVG.)=1.3116 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.6927	0.8854	-0.0816	0.88920	0.39141	36.893	5.694	0.23303	14,114.8
27.4234	0.8858	-0.0734	0.88884	0.39594	37.256	5.736	0.23339	1474.2
27.1541	0.8861	-0.0653	0.88853	0.40041	37.579	5.774	0.23371	1477.2
26.8849	0.8864	-0.0571	0.88825	0.40485	37.863	5.808	0.23399	1479.9
26.6156	0.8867	-0.0490	0.88801	0.40927	38.110	5.836	0.23423	1482.2
26.3463	0.8869	-0.0409	0.88781	0.41369	38.320	5.861	0.23443	1484.1
26.0771	0.8870	-0.0328	0.88764	0.41813	38.494	5.881	0.23460	1485.7
25.8078	0.8872	-0.0247	0.88751	0.42259	38.632	5.897	0.23473	1487.0
25.5385	0.8873	-0.0165	0.88741	0.42711	38.732	5.909	0.23483	1487.9
25.2692	0.8873	-0.0083	0.88735	0.43168	38.794	5.916	0.23489	1488.4
25.0000	0.8873	-0.0000	0.88733	0.43633	38.816	5.919	0.23491	1488.6

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.4991 ENTROPY=31.5191
 GAMMA (AVG.)=1.3026 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.4991	0.8870	-0.0760	0.89026	0.39449	49.874	6.076	0.22360	1863.1
27.2492	0.8873	-0.0684	0.88995	0.39871	50.331	6.119	0.22391	1867.1
26.9993	0.8876	-0.0608	0.88968	0.40288	50.738	6.157	0.22419	1870.6
26.7494	0.8878	-0.0532	0.88944	0.40701	51.096	6.190	0.22443	1873.7
26.4995	0.8881	-0.0457	0.88923	0.41114	51.408	6.219	0.22464	1876.3
26.2496	0.8882	-0.0381	0.88906	0.41526	51.673	6.244	0.22482	1878.5
25.9996	0.8884	-0.0306	0.88891	0.41940	51.892	6.264	0.22496	1880.4
25.7497	0.8885	-0.0230	0.88880	0.42356	52.065	6.280	0.22508	1881.8
25.4998	0.8886	-0.0154	0.88871	0.42776	52.191	6.292	0.22516	1882.9
25.2499	0.8886	-0.0077	0.88866	0.43201	52.269	6.299	0.22522	1883.6
25.0000	0.8886	0.0000	0.88864	0.43633	52.297	6.302	0.22523	1883.8

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.3633 ENTRPHY=32.1822
 GAMMA (AVG.)=1.2970 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.3633	0.8881	-0.0720	0.89102	0.39667	64.852	6.382	0.21692	2306.5
27.1270	0.8884	-0.0648	0.89074	0.40066	65.416	6.425	0.21721	2311.1
26.8907	0.8886	-0.0576	0.89050	0.40462	65.918	6.463	0.21746	2315.2
26.6543	0.8889	-0.0504	0.89028	0.40854	66.360	6.496	0.21768	2318.7
26.4180	0.8890	-0.0433	0.89010	0.41246	66.744	6.525	0.21786	2321.8
26.1817	0.8892	-0.0361	0.88994	0.41637	67.071	6.550	0.21803	2324.4
25.9453	0.8893	-0.0290	0.88981	0.42029	67.341	6.570	0.21816	2326.5
25.7090	0.8894	-0.0218	0.88970	0.42424	67.554	6.586	0.21826	2328.2
25.4727	0.8895	-0.0146	0.88963	0.42822	67.708	6.598	0.21834	2329.4
25.2363	0.8896	-0.0073	0.88958	0.43224	67.804	6.605	0.21838	2330.2
25.0000	0.8896	0.0000	0.88956	0.43633	67.839	6.608	0.21840	2330.4

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=27.1658 ENTRPHY=32.8634
 GAMMA (AVG.)=1.1658 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.1658	0.8897	-0.0664	0.89216	0.39967	81.810	6.879	0.19729	2688.7
26.9492	0.8899	-0.0597	0.89192	0.40340	82.471	6.926	0.19744	2691.7
26.7326	0.8901	-0.0530	0.89171	0.40708	83.057	6.968	0.19758	2694.4
26.5160	0.8903	-0.0464	0.89153	0.41072	83.573	7.004	0.19770	2696.7
26.2995	0.8905	-0.0398	0.89137	0.41435	84.021	7.036	0.19780	2698.8
26.0829	0.8906	-0.0332	0.89123	0.41796	84.401	7.063	0.19789	2700.5
25.8663	0.8907	-0.0266	0.89112	0.42158	84.714	7.085	0.19796	2701.8
25.6497	0.8908	-0.0200	0.89103	0.42522	84.960	7.102	0.19802	2703.1
25.4332	0.8909	-0.0134	0.89097	0.42888	85.139	7.115	0.19805	2703.7
25.2166	0.8909	-0.0067	0.89093	0.43258	85.250	7.123	0.19808	2704.3
25.0000	0.8909	-0.0000	0.89092	0.43633	85.290	7.125	0.19809	2704.5

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.9481 ENTRPHY=33.5100
GAMMA (AVG.)=1.1443 STAG. ENTHALPY=1.9083E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.9481	0.8914	-0.0599	0.89343	0.40324	100.809	7.566	0.18576	2954.3
26.7533	0.8916	-0.0530	0.89323	0.40660	101.540	7.613	0.18589	2956.9
26.5585	0.8918	-0.0479	0.89306	0.40992	102.189	7.654	0.18601	2959.5
26.3637	0.8919	-0.0419	0.89291	0.41321	102.761	7.692	0.18612	2961.3
26.1689	0.8921	-0.0359	0.89278	0.41649	103.256	7.723	0.18620	2963.1
25.9740	0.8922	-0.0300	0.89267	0.41976	103.676	7.751	0.18629	2964.4
25.7792	0.8923	-0.0240	0.89258	0.42303	104.023	7.773	0.18634	2965.8
25.5844	0.8923	-0.0180	0.89251	0.42632	104.295	7.790	0.18639	2966.7
25.3896	0.8924	-0.0121	0.89246	0.42962	104.493	7.803	0.18642	2967.4
25.1948	0.8924	-0.0060	0.89243	0.43296	104.615	7.810	0.18645	2968.0
25.0000	0.8924	-0.0000	0.89241	0.43633	104.658	7.814	0.18645	2967.8

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.7650 ENTRPHY=34.1488
GAMMA (AVG.)=1.1415 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.7650	0.8929	-0.0544	0.89451	0.40628	121.817	8.278	0.17693	3199.1
26.5805	0.8930	-0.0489	0.89436	0.40933	122.614	8.324	0.17705	3201.7
26.4120	0.8932	-0.0435	0.89421	0.41234	123.323	8.366	0.17715	3203.7
26.2355	0.8933	-0.0380	0.89409	0.41534	123.947	8.403	0.17725	3205.6
26.0590	0.8934	-0.0326	0.89398	0.41831	124.488	8.433	0.17732	3207.7
25.8825	0.8935	-0.0272	0.89389	0.42129	124.948	8.461	0.17738	3208.8
25.7060	0.8936	-0.0218	0.89382	0.42426	125.326	8.483	0.17745	3210.0
25.5295	0.8936	-0.0164	0.89376	0.42725	125.623	8.500	0.17749	3210.9
25.3530	0.8936	-0.0109	0.89372	0.43025	125.839	8.512	0.17753	3211.6
25.1765	0.8937	-0.0055	0.89369	0.43328	125.971	8.520	0.17754	3211.9
25.0000	0.8937	0.0000	0.89368	0.43634	126.019	8.523	0.17754	3211.8

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.6182 ENTRPHY=34.7843
GAMMA (AVG.)=1.1526 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6182	0.8940	-0.0500	0.89541	0.40874	144.825	8.967	0.17049	3434.2
26.4563	0.8941	-0.0449	0.89527	0.41153	145.690	9.012	0.17058	3436.9
26.2945	0.8943	-0.0399	0.89515	0.41430	146.560	9.053	0.17069	3438.8
26.1327	0.8944	-0.0350	0.89505	0.41704	147.139	9.089	0.17077	3440.8
25.9709	0.8945	-0.0300	0.89496	0.41978	147.727	9.120	0.17085	3442.4
25.8091	0.8945	-0.0250	0.89488	0.42251	148.227	9.147	0.17092	3443.6
25.6473	0.8946	-0.0200	0.89482	0.42525	148.638	9.168	0.17097	3445.1
25.4854	0.8946	-0.0150	0.89477	0.42799	148.961	9.185	0.17101	3446.0
25.3236	0.8947	-0.0100	0.89473	0.43075	149.196	9.197	0.17104	3446.7
25.1618	0.8947	-0.0050	0.89471	0.43353	149.339	9.205	0.17105	3446.9
25.0000	0.8947	0.0000	0.89470	0.43633	149.391	9.208	0.17106	3447.1

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.5064 ENTRPHY=35.4208
GAMMA (AVG.)=1.1732 STAG. ENTHALPY=3.3632E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.5064	0.8949	-0.0466	0.89609	0.41062	169.832	9.582	0.16615	3679.2
26.3557	0.8950	-0.0419	0.89598	0.41322	170.773	9.627	0.16626	3681.7
26.2051	0.8951	-0.0372	0.89588	0.41579	171.612	9.667	0.16635	3684.0
26.0545	0.8952	-0.0326	0.89578	0.41835	172.350	9.702	0.16643	3686.0
25.9038	0.8953	-0.0279	0.89571	0.42090	172.991	9.733	0.16650	3687.5
25.7532	0.8953	-0.0233	0.89564	0.42345	173.536	9.759	0.16657	3689.1
25.6025	0.8954	-0.0187	0.89558	0.42600	173.984	9.781	0.16661	3690.2
25.4519	0.8954	-0.0140	0.89554	0.42856	174.336	9.797	0.16664	3691.3
25.3013	0.8955	-0.0094	0.89551	0.43113	174.591	9.809	0.16668	3692.0
25.1506	0.8955	-0.0047	0.89549	0.43372	174.748	9.817	0.16670	3692.3
25.0000	0.8955	-0.0000	0.89548	0.43633	174.804	9.820	0.16670	3692.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NB.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.4288 ENTRPHY=36.0622
GAMMA (AVG.)=1.1994 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.4288	0.8955	-0.0442	0.89658	0.41194	196.838	10.068	0.16373	3958.3
26.2459	0.8956	-0.0398	0.89647	0.41440	197.868	10.112	0.16384	3961.1
26.1430	0.8957	-0.0353	0.89638	0.41684	198.788	10.150	0.16393	3964.0
26.0007	0.8958	-0.0309	0.89630	0.41926	199.598	10.184	0.16401	3966.4
25.8573	0.8958	-0.0265	0.89623	0.42168	200.302	10.215	0.16408	3968.1
25.7144	0.8959	-0.0221	0.89617	0.42410	200.899	10.240	0.16414	3969.8
25.5715	0.8959	-0.0177	0.89612	0.42652	201.391	10.261	0.16419	3971.0
25.4286	0.8960	-0.0133	0.89608	0.42895	201.778	10.278	0.16423	3972.0
25.2858	0.8960	-0.0089	0.89605	0.43139	202.057	10.290	0.16426	3972.8
25.1429	0.8960	-0.0045	0.89603	0.43385	202.229	10.297	0.16427	3973.4
25.0000	0.8960	0.0000	0.89603	0.43633	202.290	10.299	0.16428	3973.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NB.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.3964 ENTRPHY=36.7170
GAMMA (AVG.)=1.2191 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3964	0.8957	-0.0432	0.89678	0.41249	225.830	10.287	0.16323	4331.8
26.2567	0.8958	-0.0389	0.89668	0.41489	226.984	10.329	0.16334	4335.9
26.1171	0.8959	-0.0346	0.89659	0.41727	228.013	10.366	0.16344	4339.2
25.9774	0.8960	-0.0302	0.89651	0.41965	228.921	10.398	0.16352	4342.6
25.8378	0.8961	-0.0259	0.89645	0.42201	229.709	10.427	0.16360	4345.0
25.6982	0.8961	-0.0216	0.89639	0.42438	230.378	10.451	0.16366	4347.4
25.5585	0.8962	-0.0173	0.89634	0.42674	230.929	10.471	0.16371	4349.4
25.4189	0.8962	-0.0130	0.89631	0.42912	231.362	10.487	0.16375	4350.6
25.2793	0.8962	-0.0087	0.89628	0.43150	231.675	10.498	0.16377	4351.7
25.1396	0.8963	-0.0044	0.89626	0.43391	231.867	10.505	0.16379	4352.4
25.0000	0.8963	-0.0000	0.89626	0.43633	231.936	10.508	0.16380	4352.5

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.3588 ENTRØPY=38.3843
GAMMA (AVG.)=1.1881 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
26.3588	0.8960	-0.0621	0.89702	0.41310	307.021	10.547	0.15899	5422.5
26.2229	0.8961	-0.0379	0.89692	0.41544	308.551	10.592	0.15907	5426.3
26.0870	0.8962	-0.0337	0.89684	0.41777	309.916	10.631	0.15913	5429.6
25.9512	0.8963	-0.0295	0.89677	0.42008	311.120	10.666	0.15918	5432.5
25.8153	0.8963	-0.0253	0.89670	0.42238	312.165	10.697	0.15923	5435.0
25.6794	0.8964	-0.0211	0.89665	0.42469	313.052	10.722	0.15927	5437.1
25.5435	0.8964	-0.0169	0.89660	0.42699	313.783	10.744	0.15930	5438.8
25.4076	0.8965	-0.0127	0.89657	0.42931	314.356	10.760	0.15933	5440.2
25.2717	0.8965	-0.0085	0.89654	0.43163	314.771	10.772	0.15935	5441.2
25.1359	0.8965	-0.0042	0.89653	0.43397	315.025	10.780	0.15936	5441.8
25.0000	0.8965	-0.0000	0.89652	0.43633	315.116	10.782	0.15936	5442.0

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=26.2577 ENTRØPY=40.0381
GAMMA (AVG.)=1.1597 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
26.2577	0.8968	-0.0390	0.89766	0.41479	400.743	11.334	0.15131	6253.6
26.1319	0.8969	-0.0351	0.89758	0.41696	402.592	11.379	0.15137	6256.8
26.0062	0.8970	-0.0312	0.89751	0.41911	404.242	11.419	0.15142	6259.6
25.8804	0.8970	-0.0273	0.89744	0.42126	405.696	11.454	0.15147	6262.1
25.7546	0.8971	-0.0234	0.89739	0.42340	406.958	11.485	0.15151	6264.1
25.6288	0.8971	-0.0195	0.89734	0.42554	408.029	11.511	0.15155	6265.9
25.5031	0.8972	-0.0156	0.89730	0.42768	408.910	11.532	0.15157	6267.4
25.3773	0.8972	-0.0117	0.89727	0.42982	409.602	11.549	0.15160	6268.7
25.2515	0.8972	-0.0078	0.89725	0.43198	410.102	11.561	0.15161	6269.4
25.1258	0.8972	-0.0039	0.89724	0.43415	410.408	11.568	0.15162	6270.0
25.0000	0.8972	-0.0000	0.89723	0.43633	410.518	11.571	0.15163	6270.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 2972.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.0899 ENTRPHY=27.6640
 GAMMA (AVG.)=1.3978 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0899	0.7976	-0.2540	0.83706	0.33907	3.652	2.374	0.51619	349.2
36.1309	0.8016	-0.2285	0.83353	0.35291	3.741	2.415	0.52051	351.6
35.1719	0.8052	-0.2035	0.83049	0.36630	3.818	2.451	0.52424	353.6
34.2129	0.8083	-0.1787	0.82785	0.37952	3.885	2.482	0.52750	355.4
33.2539	0.8111	-0.1540	0.82556	0.39273	3.944	2.508	0.53034	356.9
32.2949	0.8134	-0.1292	0.82360	0.40610	3.995	2.531	0.53278	358.2
31.3359	0.8153	-0.1042	0.82195	0.41976	4.038	2.551	0.53484	359.3
30.3769	0.8168	-0.0789	0.82061	0.43383	4.072	2.567	0.53650	360.2
29.4180	0.8179	-0.0532	0.81959	0.44846	4.099	2.578	0.53776	360.8
28.4590	0.8185	-0.0270	0.81894	0.46378	4.116	2.586	0.53857	361.3
27.5000	0.8187	-0.0000	0.81867	0.47996	4.122	2.589	0.53887	361.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 3963.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.2009 ENTRPHY=27.9526
 GAMMA (AVG.)=1.3929 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.2009	0.8270	-0.1860	0.84767	0.37574	5.736	3.022	0.41733	430.8
33.5308	0.8291	-0.1673	0.84577	0.38612	5.845	3.063	0.41947	433.1
32.8607	0.8309	-0.1489	0.84412	0.39626	5.940	3.099	0.42134	435.0
32.1906	0.8325	-0.1306	0.84268	0.40628	6.024	3.131	0.42297	436.8
31.5205	0.8339	-0.1123	0.84143	0.41627	6.098	3.158	0.42438	438.3
30.8504	0.8351	-0.0940	0.84036	0.42632	6.161	3.182	0.42559	439.5
30.1804	0.8361	-0.0757	0.83947	0.43651	6.213	3.201	0.42659	440.6
29.5103	0.8368	-0.0571	0.83876	0.44689	6.256	3.217	0.42740	441.4
28.8402	0.8374	-0.0384	0.83823	0.45754	6.287	3.228	0.42799	442.1
28.1701	0.8377	-0.0194	0.83789	0.46854	6.307	3.236	0.42837	442.5
27.5000	0.8378	0.0000	0.83776	0.47997	6.314	3.238	0.42851	442.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5954.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.8125 ENTRPHY=28.3215
GAMMA (AVG.)=1.3830 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.8125	0.8404	-0.1508	0.85384	0.39511	8.417	3.593	0.36445	531.8
32.2813	0.8417	-0.1357	0.85259	0.40360	8.551	3.634	0.36580	534.1
31.7500	0.8429	-0.1207	0.85150	0.41193	8.669	3.670	0.36699	536.2
31.2188	0.8439	-0.1058	0.85054	0.42018	8.773	3.702	0.36803	537.9
30.6875	0.8448	-0.0909	0.84972	0.42840	8.864	3.730	0.36893	539.5
30.1563	0.8456	-0.0760	0.84901	0.43665	8.941	3.753	0.36969	540.8
29.6250	0.8462	-0.0611	0.84842	0.44497	9.006	3.773	0.37033	541.9
29.0937	0.8467	-0.0461	0.84796	0.45342	9.058	3.788	0.37083	542.7
28.5625	0.8470	-0.0309	0.84761	0.46203	9.096	3.800	0.37120	543.3
28.0312	0.8472	-0.0156	0.84739	0.47086	9.120	3.807	0.37143	543.7
27.5000	0.8473	0.0000	0.84731	0.47997	9.129	3.810	0.37152	543.9

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.0196 ENTRPHY=28.7310
GAMMA (AVG.)=1.3689 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.0196	0.8478	-0.1300	0.85776	0.40668	11.694	4.078	0.33149	650.9
31.5676	0.8488	-0.1170	0.85683	0.41403	11.857	4.119	0.33247	653.4
31.1156	0.8497	-0.1040	0.85601	0.42127	12.002	4.156	0.33333	655.5
30.6637	0.8504	-0.0911	0.85530	0.42843	12.129	4.188	0.33408	657.4
30.2117	0.8511	-0.0783	0.85468	0.43557	12.240	4.216	0.33473	659.0
29.7598	0.8516	-0.0654	0.85415	0.44272	12.335	4.240	0.33528	660.4
29.3078	0.8521	-0.0525	0.85372	0.44993	12.414	4.260	0.33574	661.5
28.8558	0.8525	-0.0396	0.85337	0.45722	12.477	4.275	0.33610	662.4
28.4039	0.8527	-0.0265	0.85312	0.46463	12.523	4.287	0.33637	663.1
27.9519	0.8528	-0.0133	0.85295	0.47220	12.551	4.294	0.33654	663.5
27.5000	0.8529	0.0000	0.85289	0.47997	12.562	4.297	0.33660	663.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.1505 ENTROPY=29.5839
GAMMA (AVG.)=1.3394 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.1505	0.8558	-0.1066	0.86241	0.41980	20.037	4.854	0.29224	936.9
30.7855	0.8564	-0.0959	0.86178	0.42585	20.270	4.896	0.29287	939.7
30.4204	0.8570	-0.0852	0.86123	0.43182	20.477	4.934	0.29343	942.1
30.0554	0.8575	-0.0746	0.86075	0.43774	20.660	4.967	0.29392	944.2
29.6903	0.8579	-0.0641	0.86033	0.44363	20.819	4.995	0.29434	946.1
29.3252	0.8583	-0.0535	0.85998	0.44953	20.954	5.019	0.29470	947.6
28.9602	0.8586	-0.0430	0.85969	0.45546	21.066	5.039	0.29500	948.9
28.5951	0.8588	-0.0323	0.85945	0.46145	21.155	5.055	0.29523	949.9
28.2301	0.8590	-0.0216	0.85928	0.46751	21.220	5.067	0.29540	950.7
27.8650	0.8591	-0.0109	0.85918	0.47367	21.261	5.074	0.29551	951.1
27.5000	0.8591	0.0000	0.85914	0.47997	21.275	5.077	0.29555	951.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=30.6818 ENTROPY=30.4195
GAMMA (AVG.)=1.3186 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.6818	0.8600	-0.0936	0.86509	0.42708	30.765	5.451	0.26981	1281.1
30.3636	0.8605	-0.0842	0.86460	0.43240	31.082	5.494	0.27029	1284.3
30.0454	0.8609	-0.0749	0.86418	0.43766	31.364	5.531	0.27072	1287.1
29.7272	0.8613	-0.0656	0.86381	0.44288	31.612	5.565	0.27109	1289.5
29.4091	0.8616	-0.0563	0.86348	0.44808	31.828	5.593	0.27141	1291.7
29.0909	0.8619	-0.0470	0.86321	0.45328	32.012	5.618	0.27168	1293.5
28.7727	0.8622	-0.0377	0.86298	0.45850	32.164	5.638	0.27191	1294.9
28.4545	0.8623	-0.0284	0.86280	0.46376	32.284	5.654	0.27209	1296.1
28.1363	0.8625	-0.0190	0.86267	0.46908	32.372	5.666	0.27221	1297.0
27.8182	0.8625	-0.0095	0.86259	0.47447	32.426	5.673	0.27229	1297.5
27.5000	0.8626	0.0000	0.86256	0.47997	32.446	5.675	0.27232	1297.7

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.=12.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=30.3923 ENTRPHY=31.2120
GAMMA (AVG.)=1.3060 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.3923	0.8626	-0.0855	0.86680	0.43165	43.880	5.917	0.25566	1883.2
30.1030	0.8630	-0.0769	0.86640	0.43652	44.294	5.960	0.25606	1886.9
29.8138	0.8633	-0.0684	0.86605	0.44133	44.662	5.998	0.25641	1890.2
29.5246	0.8637	-0.0599	0.86574	0.44610	44.986	6.031	0.25672	1893.1
29.2353	0.8639	-0.0514	0.86547	0.45086	45.268	6.060	0.25699	1895.6
28.9461	0.8642	-0.0429	0.86524	0.45561	45.508	6.085	0.25721	1897.7
28.6569	0.8644	-0.0344	0.86505	0.46039	45.707	6.105	0.25740	1899.4
28.3677	0.8645	-0.0259	0.86490	0.46520	45.863	6.121	0.25755	1900.7
28.0784	0.8646	-0.0173	0.86479	0.47005	45.977	6.133	0.25765	1901.7
27.7892	0.8647	-0.0087	0.86472	0.47497	46.048	6.140	0.25772	1902.4
27.5000	0.8647	0.0000	0.86470	0.47997	46.073	6.143	0.25774	1902.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=30.2001 ENTRPHY=31.9546
GAMMA (AVG.)=1.2987 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.2001	0.8643	-0.0801	0.86797	0.43472	59.380	6.283	0.24616	2145.4
29.9301	0.8646	-0.0720	0.86762	0.43927	59.905	6.325	0.24651	2149.7
29.6601	0.8649	-0.0640	0.86731	0.44378	60.372	6.363	0.24682	2153.6
29.3900	0.8652	-0.0561	0.86703	0.44826	60.784	6.397	0.24709	2156.9
29.1200	0.8655	-0.0481	0.86680	0.45272	61.141	6.426	0.24733	2159.8
28.8500	0.8657	-0.0402	0.86660	0.45718	61.446	6.450	0.24753	2162.3
28.5800	0.8658	-0.0322	0.86643	0.46165	61.697	6.471	0.24769	2164.3
28.3100	0.8660	-0.0242	0.86630	0.46615	61.896	6.487	0.24782	2165.9
28.0400	0.8661	-0.0162	0.86620	0.47070	62.040	6.498	0.24791	2167.1
27.7700	0.8661	-0.0081	0.86614	0.47530	62.129	6.506	0.24797	2167.8
27.5000	0.8661	0.0000	0.86612	0.47997	62.162	6.508	0.24799	2168.1

CRNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.9882 ENTRPHY=32.6931
GAMMA (AVG.)=1.1789 STAG. ENTHALPHY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
29.7223	0.8684	-0.0742	0.86930	0.43793	77.244	6.736	0.22542	2599.9
29.5001	0.8687	-0.0667	0.86899	0.44220	77.882	6.782	0.22562	2603.8
29.2779	0.8689	-0.0593	0.86872	0.44641	78.449	6.823	0.22580	2606.8
29.0556	0.8691	-0.0519	0.86849	0.45059	78.947	6.858	0.22596	2609.7
28.8334	0.8693	-0.0445	0.86828	0.45474	79.379	6.889	0.22608	2612.3
28.6112	0.8694	-0.0371	0.86811	0.45888	79.747	6.915	0.22619	2614.2
28.3889	0.8695	-0.0298	0.86797	0.46304	80.049	6.937	0.22629	2615.7
28.1667	0.8696	-0.0224	0.86786	0.46721	80.288	6.954	0.22636	2617.1
27.9445	0.8697	-0.0150	0.86778	0.47141	80.461	6.966	0.22641	2618.1
27.7222	0.8697	-0.0075	0.86772	0.47566	80.568	6.974	0.22645	2618.6
27.5000	0.8697	-0.0000	0.86771	0.47996	80.606	6.977	0.22645	2618.7

CRNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.7223 ENTRPHY=33.4039
GAMMA (AVG.)=1.1464 STAG. ENTHALPHY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
29.7223	0.8684	-0.0666	0.87098	0.44226	97.532	7.449	0.21042	2912.3
29.5001	0.8687	-0.0599	0.87074	0.44608	98.252	7.496	0.21058	2915.0
29.2779	0.8689	-0.0532	0.87052	0.44987	98.991	7.537	0.21072	2917.5
29.0556	0.8691	-0.0465	0.87033	0.45362	99.454	7.574	0.21085	2919.4
28.8334	0.8693	-0.0399	0.87017	0.45735	99.942	7.606	0.21097	2921.3
28.6112	0.8694	-0.0333	0.87003	0.46108	100.356	7.634	0.21105	2922.5
28.3889	0.8695	-0.0267	0.86991	0.46480	100.697	7.656	0.21113	2923.8
28.1667	0.8696	-0.0201	0.86982	0.46855	100.965	7.673	0.21119	2925.0
27.9445	0.8697	-0.0134	0.86976	0.47232	101.160	7.685	0.21124	2925.8
27.7222	0.8697	-0.0067	0.86972	0.47612	101.280	7.693	0.21127	2926.0
27.5000	0.8697	0.0000	0.86970	0.47997	101.323	7.696	0.21128	2926.2

CBNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=20.4910 ENTRBPY=34.1023
GAMMA (AVG.)=1.1413 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.4910	0.8704	-0.0598	0.87249	0.44608	120.218	8.227	0.19909	3181.5
29.2919	0.8706	-0.0538	0.87229	0.44951	121.010	8.274	0.19923	3184.1
29.0928	0.8708	-0.0478	0.87211	0.45291	121.715	8.315	0.19936	3186.3
28.8937	0.8710	-0.0418	0.87196	0.45628	122.335	8.352	0.19947	3188.1
28.6946	0.8711	-0.0359	0.87183	0.45964	122.872	8.383	0.19958	3189.8
28.4955	0.8712	-0.0299	0.87171	0.46299	123.329	8.410	0.19965	3191.2
28.2964	0.8713	-0.0240	0.87162	0.46634	123.705	8.432	0.19972	3192.4
28.0973	0.8714	-0.0180	0.87155	0.46971	124.000	8.450	0.19976	3193.2
27.8982	0.8714	-0.0120	0.87150	0.47310	124.214	8.462	0.19980	3193.8
27.6991	0.8714	-0.0060	0.87146	0.47651	124.346	8.470	0.19983	3194.3
27.5000	0.8714	-0.0000	0.87145	0.47996	124.393	8.473	0.19984	3194.4

CBNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.3096 ENTRBPY=34.7968
GAMMA (AVG.)=1.1529 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.3096	0.8720	-0.0545	0.87369	0.44912	145.297	8.980	0.19104	3438.6
29.1287	0.8721	-0.0490	0.87352	0.45223	146.163	9.026	0.19117	3441.2
28.9477	0.8723	-0.0436	0.87338	0.45532	146.935	9.066	0.19129	3443.4
28.7667	0.8724	-0.0381	0.87325	0.45839	147.614	9.102	0.19139	3445.3
28.5858	0.8725	-0.0327	0.87314	0.46145	148.204	9.133	0.19148	3447.0
28.4048	0.8726	-0.0273	0.87305	0.46451	148.704	9.159	0.19155	3448.6
28.2238	0.8727	-0.0219	0.87297	0.46757	149.116	9.181	0.19162	3449.5
28.0429	0.8728	-0.0164	0.87291	0.47063	149.440	9.199	0.19167	3450.3
27.8619	0.8728	-0.0110	0.87287	0.47372	149.674	9.211	0.19170	3450.9
27.6809	0.8728	-0.0055	0.87284	0.47683	149.818	9.219	0.19172	3451.4
27.5000	0.8728	-0.0000	0.87283	0.47996	149.870	9.221	0.19173	3451.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRAPPY=27.4504

FLW PROPERTIES

SHOCK ANGLE=29.1754 ENTRAPPY=35.4924
GAMMA (AVG.)=1.1760 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.1754	0.8731	-0.0505	0.87459	0.45138	172.762	9.644	0.18585	3708.5
29.0079	0.8733	-0.0455	0.87445	0.45426	173.712	9.689	0.18597	3710.9
28.8403	0.8734	-0.0404	0.87433	0.45712	174.559	9.728	0.18607	3713.4
28.6728	0.8735	-0.0354	0.87422	0.45996	175.405	9.764	0.18617	3715.2
28.5052	0.8736	-0.0303	0.87412	0.46280	175.953	9.795	0.18625	3716.8
28.3377	0.8737	-0.0253	0.87404	0.46563	176.503	9.821	0.18632	3718.4
28.1701	0.8737	-0.0203	0.87398	0.46847	176.956	9.842	0.18638	3719.6
28.0026	0.8738	-0.0152	0.87392	0.47131	177.311	9.859	0.18643	3720.4
27.8351	0.8738	-0.0102	0.87389	0.47418	177.569	9.871	0.18647	3721.2
27.6675	0.8738	-0.0051	0.87386	0.47706	177.727	9.878	0.18648	3721.7
27.5000	0.8739	-0.0000	0.87385	0.47996	177.783	9.881	0.18650	3721.9

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRAPPY=27.4504

FLW PROPERTIES

SHOCK ANGLE=29.0870 ENTRAPPY=36.1947
GAMMA (AVG.)=1.2050 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0870	0.8739	-0.0479	0.87519	0.45288	202.614	10.144	0.18320	4022.6
28.9283	0.8740	-0.0431	0.87507	0.45561	203.666	10.188	0.18333	4025.7
28.7696	0.8741	-0.0383	0.87496	0.45831	204.604	10.227	0.18343	4028.1
28.6109	0.8742	-0.0335	0.87486	0.46101	205.431	10.261	0.18353	4030.6
28.4522	0.8743	-0.0288	0.87477	0.46370	206.149	10.291	0.18361	4032.5
28.2935	0.8744	-0.0240	0.87470	0.46638	206.759	10.316	0.18368	4034.4
28.1348	0.8744	-0.0192	0.87464	0.46907	207.261	10.337	0.18374	4035.9
27.9761	0.8745	-0.0144	0.87459	0.47177	207.656	10.353	0.18379	4037.2
27.8174	0.8745	-0.0096	0.87456	0.47448	207.941	10.365	0.18382	4037.6
27.6587	0.8745	-0.0048	0.87454	0.47721	208.116	10.372	0.18385	4038.3
27.5000	0.8745	0.0000	0.87453	0.47997	208.179	10.375	0.18385	4038.3

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 27744.8 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.0682 ENTRØPY=36.9170
 GAMMA (AVG.)=1.2198 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.
 SHOCK ANGLE=29.0667 ENTRØPY=37.6490
 GAMMA (AVG.)=1.2158 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0682	0.8740	-0.0474	0.87532	0.45320	234.837	10.258	0.18324	4482.3
28.9114	0.8742	-0.0426	0.87520	0.45589	236.036	10.300	0.18337	4486.6
28.7565	0.8743	-0.0379	0.87509	0.45857	237.109	10.336	0.18349	4490.4
28.5977	0.8744	-0.0332	0.87500	0.46123	238.056	10.368	0.18358	4494.0
28.4409	0.8745	-0.0284	0.87491	0.46388	238.878	10.396	0.18368	4497.1
28.2861	0.8745	-0.0237	0.87484	0.46654	239.576	10.420	0.18375	4499.5
28.1273	0.8746	-0.0190	0.87478	0.46920	240.151	10.440	0.18381	4501.4
27.9704	0.8746	-0.0143	0.87474	0.47186	240.602	10.455	0.18386	4503.1
27.8136	0.8747	-0.0095	0.87470	0.47454	240.929	10.466	0.18389	4504.4
27.6568	0.8747	-0.0048	0.87468	0.47724	241.129	10.473	0.18391	4505.1
27.5000	0.8747	-0.0000	0.87468	0.47996	241.201	10.475	0.18392	4505.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 29726.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=29.0667 ENTRØPY=37.6490
 GAMMA (AVG.)=1.2158 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0667	0.8741	-0.0473	0.87533	0.45322	269.429	10.267	0.18284	4997.4
28.9100	0.8742	-0.0426	0.87521	0.45591	270.809	10.310	0.18293	5001.1
28.7533	0.8743	-0.0378	0.87510	0.45859	272.041	10.349	0.18301	5004.3
28.5967	0.8744	-0.0331	0.87501	0.46124	273.128	10.384	0.18308	5007.1
28.4400	0.8745	-0.0284	0.87492	0.46390	274.072	10.414	0.18315	5009.5
28.2833	0.8745	-0.0237	0.87485	0.46655	274.873	10.439	0.18320	5011.6
28.1267	0.8746	-0.0190	0.87480	0.46921	275.533	10.460	0.18324	5013.3
27.9700	0.8746	-0.0143	0.87475	0.47187	276.051	10.477	0.18327	5014.6
27.8133	0.8747	-0.0095	0.87472	0.47455	276.426	10.489	0.18330	5015.5
27.6567	0.8747	-0.0048	0.87470	0.47725	276.657	10.496	0.18331	5016.1
27.5000	0.8747	-0.0000	0.87469	0.47996	276.739	10.498	0.18332	5016.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=28.9505 ENTRPHY=39.4743
GAMMA (AVG.)=1.1669 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9505	0.8750	-0.0439	0.87614	0.45514	366.383	11.023	0.17251	5997.9
28.8055	0.8751	-0.0395	0.87603	0.45764	368.125	11.067	0.17259	6001.3
28.6604	0.8752	-0.0351	0.87594	0.46012	369.679	11.107	0.17265	6004.2
28.5154	0.8753	-0.0307	0.87586	0.46260	371.049	11.142	0.17272	6006.9
28.3703	0.8754	-0.0264	0.87578	0.46506	372.238	11.173	0.17277	6009.1
28.2253	0.8754	-0.0220	0.87572	0.46752	373.247	11.199	0.17281	6010.9
28.0802	0.8755	-0.0176	0.87567	0.46999	374.078	11.220	0.17284	6012.5
27.9351	0.8755	-0.0132	0.87564	0.47246	374.729	11.237	0.17287	6013.7
27.7901	0.8756	-0.0088	0.87561	0.47495	375.201	11.249	0.17289	6014.5
27.6450	0.8756	-0.0044	0.87559	0.47745	375.490	11.256	0.17291	6015.1
27.5000	0.8756	-0.0000	0.87558	0.47997	375.593	11.259	0.17291	6015.4

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39638.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=28.8245 ENTRPHY=41.2627
GAMMA (AVG.)=1.1509 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.8245	0.8761	-0.0402	0.87702	0.45725	478.289	11.999	0.16391	6729.0
28.6921	0.8762	-0.0361	0.87693	0.45954	480.364	12.043	0.16398	6732.1
28.5596	0.8763	-0.0321	0.87685	0.46181	482.214	12.084	0.16404	6734.5
28.4272	0.8763	-0.0281	0.87678	0.46408	483.846	12.119	0.16409	6736.7
28.2947	0.8764	-0.0241	0.87672	0.46633	485.262	12.150	0.16413	6738.8
28.1622	0.8764	-0.0201	0.87667	0.46859	486.465	12.176	0.16417	6740.4
28.0298	0.8765	-0.0161	0.87663	0.47085	487.453	12.197	0.16420	6741.9
27.8973	0.8765	-0.0121	0.87660	0.47311	488.229	12.214	0.16422	6742.8
27.7649	0.8765	-0.0081	0.87658	0.47538	488.789	12.226	0.16424	6743.6
27.6324	0.8766	-0.0040	0.87656	0.47767	489.132	12.234	0.16425	6744.2
27.5000	0.8766	0.0000	0.87655	0.47997	489.255	12.236	0.16426	6744.3

CBNE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.7839 ENTRBPY=27.7263
GAMMA (AVG.)=1.3970 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7839	0.7684	-0.2512	0.80839	0.37839	4.134	2.547	0.5246	368.4
38.8055	0.7724	-0.2261	0.80480	0.39256	4.227	2.588	0.55713	370.7
37.8271	0.7760	-0.2013	0.80170	0.40637	4.308	2.623	0.56121	372.7
36.8488	0.7792	-0.1768	0.79900	0.42003	4.379	2.654	0.56477	374.5
35.8704	0.7820	-0.1523	0.79665	0.43371	4.441	2.681	0.56787	376.0
34.8920	0.7843	-0.1277	0.79464	0.44756	4.495	2.704	0.57055	377.3
33.9136	0.7862	-0.1030	0.79295	0.46169	4.540	2.724	0.57280	378.3
32.9352	0.7877	-0.0779	0.79159	0.47623	4.577	2.740	0.57462	379.2
31.9568	0.7888	-0.0525	0.79056	0.49130	4.604	2.751	0.57598	379.9
30.9784	0.7894	-0.0266	0.78989	0.50704	4.622	2.759	0.57686	380.3
30.0000	0.7896	0.0000	0.78963	0.52360	4.629	2.762	0.57719	380.4

CBNE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.9129 ENTRBPY=28.0705
GAMMA (AVG.)=1.3902 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.9129	0.7995	-0.1862	0.82090	0.41540	6.575	3.225	0.44825	462.8
36.2216	0.8016	-0.1675	0.81893	0.42614	6.691	3.266	0.45056	465.0
35.5303	0.8035	-0.1491	0.81721	0.43666	6.794	3.302	0.45258	467.0
34.8390	0.8052	-0.1307	0.81571	0.44708	6.884	3.334	0.45434	468.8
34.1478	0.8066	-0.1124	0.81441	0.45749	6.963	3.361	0.45587	470.3
33.4565	0.8078	-0.0941	0.81329	0.46795	7.031	3.384	0.45718	471.6
32.7652	0.8088	-0.0757	0.81237	0.47855	7.087	3.404	0.45827	472.6
32.0739	0.8096	-0.0571	0.81163	0.48934	7.133	3.420	0.45914	473.5
31.3826	0.8102	-0.0384	0.81107	0.50040	7.166	3.431	0.45978	474.1
30.6913	0.8105	-0.0193	0.81072	0.51179	7.187	3.438	0.46019	474.5
30.0000	0.8106	0.0000	0.81058	0.52360	7.195	3.441	0.46034	474.6

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=35.5398 ENTROPY=28.4900
GAMMA (AVG.)=1.3775 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.5398	0.8137	-0.1527	0.82789	0.43474	9.718	3.806	0.39307	579.6
34.9858	0.8151	-0.1374	0.82657	0.44361	9.864	3.847	0.39453	582.0
34.4310	0.8163	-0.1222	0.82540	0.45234	9.993	3.883	0.39582	584.1
33.8778	0.8174	-0.1071	0.82439	0.46098	10.106	3.915	0.39694	585.9
33.3239	0.8183	-0.0920	0.82351	0.46960	10.205	3.943	0.39792	587.5
32.7699	0.8192	-0.0770	0.82276	0.47825	10.289	3.967	0.39875	588.8
32.2159	0.8198	-0.0618	0.82214	0.48699	10.360	3.986	0.39944	589.9
31.6619	0.8203	-0.0466	0.82164	0.49584	10.416	4.002	0.39998	590.8
31.1079	0.8207	-0.0313	0.82127	0.50486	10.457	4.014	0.40038	591.4
30.5539	0.8209	-0.0157	0.82104	0.51410	10.483	4.021	0.40064	591.8
30.0000	0.8210	0.0000	0.82095	0.52360	10.492	4.023	0.40073	591.9

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.7506 ENTROPY=28.9434
GAMMA (AVG.)=1.3611 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.7506	0.8216	-0.1327	0.83227	0.44633	13.562	4.294	0.35865	716.9
34.2755	0.8227	-0.1194	0.83127	0.45407	13.741	4.336	0.35971	719.4
33.8005	0.8236	-0.1062	0.83039	0.46169	13.900	4.372	0.36065	721.6
33.3254	0.8244	-0.0930	0.82963	0.46925	14.040	4.405	0.36147	723.6
32.8504	0.8251	-0.0799	0.82896	0.47679	14.162	4.433	0.36218	725.2
32.3753	0.8257	-0.0668	0.82839	0.48434	14.267	4.457	0.36278	726.6
31.9002	0.8262	-0.0536	0.82792	0.49195	14.353	4.477	0.36328	727.8
31.4252	0.8266	-0.0404	0.82755	0.49964	14.422	4.492	0.36368	728.7
30.9501	0.8268	-0.0271	0.82727	0.50746	14.472	4.504	0.36396	729.4
30.4750	0.8270	-0.0136	0.82710	0.51543	14.504	4.511	0.36414	729.8
30.0000	0.8270	0.0000	0.82703	0.52360	14.515	4.514	0.36421	730.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=33.8760 ENTRPHY=29.8662
GAMMA (AVG.)=1.3314 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.8760	0.8302	-0.1099	0.83748	0.45959	23.347	5.070	0.31772	1045.3
33.4884	0.8309	-0.0989	0.83680	0.46602	23.607	5.112	0.31842	1048.2
33.1008	0.8316	-0.0879	0.83619	0.47237	23.838	5.150	0.31904	1050.7
32.7132	0.8321	-0.0770	0.83566	0.47867	24.041	5.183	0.31958	1052.9
32.3256	0.8326	-0.0661	0.83520	0.48495	24.218	5.211	0.32004	1054.9
31.9380	0.8330	-0.0552	0.83481	0.49123	24.368	5.236	0.32044	1056.5
31.5504	0.8333	-0.0443	0.83449	0.49754	24.493	5.256	0.32076	1057.8
31.1628	0.8336	-0.0333	0.83424	0.50391	24.592	5.272	0.32102	1058.9
30.7752	0.8338	-0.0223	0.83405	0.51036	24.664	5.283	0.32121	1059.7
30.3876	0.8339	-0.0112	0.83393	0.51692	24.709	5.291	0.32132	1060.1
30.0000	0.8339	0.0000	0.83389	0.52360	24.725	5.293	0.32137	1060.3

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=33.4024 ENTRPHY=30.7550
GAMMA (AVG.)=1.3125 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.4024	0.8348	-0.0973	0.84047	0.46697	35.932	5.659	0.29457	1441.3
33.0621	0.8354	-0.0875	0.83993	0.47267	36.287	5.702	0.29510	1444.6
32.7219	0.8358	-0.0778	0.83946	0.47830	36.603	5.739	0.29558	1447.6
32.3816	0.8363	-0.0681	0.83904	0.48388	36.882	5.773	0.29599	1450.2
32.0414	0.8366	-0.0585	0.83868	0.48945	37.124	5.802	0.29635	1452.5
31.7012	0.8370	-0.0488	0.83838	0.49502	37.330	5.825	0.29665	1454.4
31.3609	0.8372	-0.0392	0.83813	0.50062	37.501	5.846	0.29690	1456.0
31.0207	0.8374	-0.0295	0.83793	0.50625	37.635	5.862	0.29710	1457.2
30.6804	0.8375	-0.0197	0.83778	0.51195	37.734	5.874	0.29725	1458.2
30.3402	0.8376	-0.0099	0.83769	0.51772	37.795	5.881	0.29733	1458.7
30.0000	0.8377	0.0000	0.83765	0.52360	37.817	5.884	0.29737	1458.9

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=33.1115 ENTROPY=31.5889
GAMMA (AVG.)=1.3019 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.1115	0.8376	-0.0894	0.84236	0.47158	51.315	6.111	0.28012	1906.1
32.8003	0.8381	-0.0804	0.84191	0.47681	51.782	6.153	0.28056	1910.1
32.4892	0.8385	-0.0715	0.84151	0.48199	52.198	6.191	0.28096	1913.7
32.1780	0.8388	-0.0626	0.84116	0.48713	52.564	6.225	0.28131	1916.8
31.8669	0.8391	-0.0537	0.84086	0.49225	52.882	6.254	0.28161	1919.5
31.5557	0.8394	-0.0448	0.84060	0.49738	53.154	6.278	0.28187	1921.8
31.2446	0.8396	-0.0360	0.84038	0.50252	53.378	6.299	0.28208	1923.6
30.9334	0.8398	-0.0270	0.84022	0.50770	53.554	6.315	0.28224	1925.1
30.6223	0.8399	-0.0181	0.84009	0.51293	53.683	6.326	0.28236	1926.2
30.3111	0.8400	-0.0091	0.84002	0.51822	53.763	6.333	0.28244	1926.8
30.0000	0.8400	0.0000	0.83999	0.52360	53.792	6.336	0.28246	1927.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.9192 ENTROPY=32.3637
GAMMA (AVG.)=1.2605 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.9192	0.8394	-0.0842	0.84364	0.47463	69.493	6.458	0.27051	2442.6
32.6273	0.8398	-0.0757	0.84324	0.47956	70.089	6.501	0.27090	2447.4
32.3354	0.8402	-0.0673	0.84289	0.48443	70.619	6.539	0.27125	2451.6
32.0435	0.8405	-0.0589	0.84258	0.48927	71.087	6.572	0.27156	2455.3
31.7515	0.8408	-0.0506	0.84231	0.49410	71.493	6.601	0.27183	2458.5
31.4596	0.8410	-0.0422	0.84208	0.49892	71.839	6.625	0.27206	2461.2
31.1677	0.8412	-0.0338	0.84189	0.50377	72.129	6.620	0.26071	2400.4
30.8758	0.8414	-0.0254	0.84174	0.50865	72.361	6.837	0.26080	2402.2
30.5838	0.8415	-0.0170	0.84163	0.51357	72.529	6.849	0.26087	2403.5
30.2919	0.8415	-0.0085	0.84156	0.51855	72.633	6.857	0.26092	2404.2
30.0000	0.8415	0.0000	0.84154	0.52360	72.671	6.860	0.26093	2404.6

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.5766 ENTROPY=33.1676
GAMMA (AVG.)=1.1525 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

32.5766	0.8427	-0.0749	0.84599	0.47995	90.453	7.191	0.24006	2817.7
32.3189	0.8430	-0.0673	0.84567	0.48438	91.148	7.238	0.24026	2820.6
32.0613	0.8433	-0.0598	0.84539	0.48876	91.765	7.280	0.24047	2823.0
31.8036	0.8435	-0.0524	0.84514	0.49309	92.308	7.317	0.24062	2825.1
31.5459	0.8437	-0.0449	0.84493	0.49741	92.778	7.349	0.24077	2826.9
31.2883	0.8439	-0.0375	0.84474	0.50172	93.178	7.376	0.24089	2828.2
31.0306	0.8441	-0.0300	0.84460	0.50603	93.507	7.398	0.24099	2829.5
30.7730	0.8442	-0.0226	0.84448	0.51036	93.766	7.416	0.24107	2830.4
30.5153	0.8443	-0.0151	0.84439	0.51473	93.954	7.429	0.24112	2831.2
30.2576	0.8443	-0.0076	0.84434	0.51913	94.070	7.436	0.24116	2831.9
30.0000	0.8443	-0.0000	0.84432	0.52359	94.112	7.439	0.24118	2832.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.2787 ENTROPY=33.9263
GAMMA (AVG.)=1.1407 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

32.2787	0.8455	-0.0865	0.84807	0.48487	114.254	8.030	0.22493	3115.6
32.0508	0.8457	-0.0598	0.84782	0.48879	115.028	8.076	0.22512	3118.2
31.8229	0.8459	-0.0531	0.84760	0.49267	115.716	8.118	0.22527	3120.5
31.5950	0.8461	-0.0465	0.84740	0.49653	116.322	8.154	0.22541	3122.6
31.3672	0.8463	-0.0399	0.84723	0.50036	116.847	8.186	0.22552	3124.0
31.1393	0.8464	-0.0333	0.84709	0.50419	117.292	8.213	0.22564	3125.6
30.9114	0.8466	-0.0267	0.84697	0.50803	117.660	8.235	0.22571	3126.8
30.6836	0.8466	-0.0200	0.84688	0.51188	117.948	8.252	0.22578	3127.7
30.4557	0.8467	-0.0134	0.84681	0.51575	118.157	8.265	0.22582	3128.3
30.2278	0.8467	-0.0067	0.84677	0.51965	118.286	8.272	0.22586	3128.8
30.0000	0.8468	0.0000	0.84675	0.52360	118.332	8.274	0.22587	3129.2

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=32.0461 ENTRPHY=34.6786
GAMMA (AVG.)=1.1499 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.0461	0.8476	-0.0599	0.84973	0.48873	140.856	8.855	0.21429	3395.1
31.8415	0.8478	-0.0539	0.84953	0.49226	141.709	8.901	0.21444	3397.4
31.6369	0.8480	-0.0479	0.84935	0.49575	142.469	8.942	0.21458	3399.6
31.4323	0.8482	-0.0419	0.84919	0.49922	143.138	8.978	0.21471	3401.4
31.2276	0.8483	-0.0360	0.84906	0.50267	143.718	9.009	0.21482	3403.3
31.0230	0.8484	-0.0300	0.84894	0.50612	144.211	9.036	0.21491	3404.5
30.8184	0.8485	-0.0240	0.84884	0.50958	144.617	9.058	0.21498	3405.6
30.6138	0.8486	-0.0181	0.84877	0.51304	144.936	9.075	0.21504	3406.4
30.4092	0.8486	-0.0121	0.84871	0.51653	145.167	9.087	0.21509	3407.2
30.2046	0.8487	-0.0060	0.84868	0.52004	145.309	9.095	0.21511	3407.6
30.0000	0.8487	-0.0000	0.84867	0.52359	145.360	9.098	0.21513	3407.6

FLUX PROPERTIES

WALL TEMPERATURE= 1111.0000
WALL HEAT FLUX= 1.1111E 05
WALL MASS FLUX= 1.1111E 05
WALL STAG. ENTHALPY= 1.1111E 08
WALL STAG. ENTHALPY= 1.1111E 08
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WALL STAG. ENTHALPY= 1.1111E 08

FLUX PROPERTIES

WALL TEMPERATURE= 1111.0000
WALL HEAT FLUX= 1.1111E 05
WALL MASS FLUX= 1.1111E 05
WALL STAG. ENTHALPY= 1.1111E 08
WALL STAG. ENTHALPY= 1.1111E 08
WALL STAG. ENTHALPY= 1.1111E 08
WALL STAG. ENTHALPY= 1.1111E 08

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.4766	0.8472	-0.0591	0.85047	0.49162	170.262	9.591	0.22750	3623.4
31.2680	0.8494	-0.0495	0.85040	0.49483	171.297	9.636	0.22766	3646.1
31.0611	0.8495	-0.0440	0.85045	0.49813	172.047	9.676	0.22779	3674.5
31.8535	0.8475	-0.0505	0.85031	0.49121	172.746	9.711	0.22791	3695.5
31.6458	0.8498	-0.0430	0.85046	0.49439	173.424	9.743	0.22801	3691.9
31.4382	0.8477	-0.05276	0.85035	0.48754	173.974	9.768	0.22809	3693.7
31.2306	0.8479	-0.04271	0.85022	0.49073	174.423	9.789	0.22816	3695.0
31.0229	0.84500	-0.04166	0.85016	0.49397	174.775	9.806	0.22821	3695.7
30.8153	0.84500	-0.04111	0.85011	0.49717	175.031	9.818	0.22826	3696.4
30.6076	0.84501	-0.04075	0.85008	0.49703	175.147	9.826	0.22827	3696.3
30.4000	0.84501	-0.04000	0.85007	0.497360	175.243	9.828	0.22824	3697.2

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRBPV=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.7479 ENTRBPV=36.9747
GAMMA (AVG.)=1.2197 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
31.7479	0.8504	-0.0514	0.85192	0.49378	237.452	10.245	0.20429	4527.9
31.5731	0.8505	-0.0462	0.85177	0.49678	238.870	10.287	0.20445	4532.3
31.3983	0.8506	-0.0411	0.85164	0.49976	239.757	10.323	0.20458	4536.3
31.2235	0.8508	-0.0359	0.85152	0.50272	241.716	10.355	0.20470	4539.8
31.0487	0.8509	-0.0308	0.85142	0.50568	241.548	10.383	0.20480	4542.7
30.8739	0.8509	-0.0257	0.85134	0.50864	242.255	10.407	0.20489	4545.5
30.6991	0.8510	-0.0206	0.85127	0.51160	242.838	10.427	0.20496	4547.4
30.5243	0.8511	-0.0155	0.85121	0.51457	243.295	10.442	0.20502	4549.2
30.3496	0.8511	-0.0103	0.85117	0.51756	243.625	10.453	0.20506	4550.5
30.1748	0.8511	-0.0052	0.85115	0.52057	243.828	10.460	0.20509	4551.1
30.0000	0.8511	0.0000	0.85114	0.52360	243.901	10.462	0.20509	4551.3

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRBPV=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.7667 ENTRBPV=36.1913
GAMMA (AVG.)=1.2048 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
31.7667	0.8502	-0.0519	0.85178	0.49345	202.466	10.142	0.20413	4021.2
31.5900	0.8503	-0.0467	0.85163	0.49649	203.517	10.185	0.20427	4024.5
31.4134	0.8505	-0.0415	0.85149	0.49950	204.454	10.224	0.20440	4026.9
31.2367	0.8506	-0.0363	0.85138	0.50250	205.281	10.258	0.20452	4029.5
31.0600	0.8507	-0.0312	0.85127	0.50549	205.999	10.288	0.20461	4031.2
30.8833	0.8508	-0.0260	0.85119	0.50848	206.608	10.313	0.20470	4033.0
30.7067	0.8509	-0.0208	0.85111	0.51147	207.111	10.334	0.20476	4034.5
30.5300	0.8509	-0.0156	0.85106	0.51447	207.505	10.350	0.20483	4035.8
30.3533	0.8510	-0.0104	0.85102	0.51749	207.790	10.362	0.20486	4036.6
30.1766	0.8510	-0.0052	0.85099	0.52053	207.965	10.369	0.20489	4036.9
30.0000	0.8510	0.0000	0.85098	0.52360	208.028	10.372	0.20489	4037.2

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.7365 ENTRPHY=37.7654
GAMMA (AVG.)=1.2109 STAG. ENTHALPY=3.6734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7365	0.8505	-0.0510	0.85201	0.49396	275.225	10.305	0.20290	5064.2
31.5629	0.8506	-0.0459	0.85186	0.49694	276.630	10.349	0.20301	5067.0
31.3892	0.8507	-0.0408	0.85173	0.49990	277.883	10.388	0.20310	5070.9
31.2156	0.8509	-0.0357	0.85161	0.50285	278.989	10.423	0.20318	5073.7
31.0419	0.8510	-0.0306	0.85151	0.50579	279.949	10.453	0.20325	5076.1
30.8682	0.8510	-0.0256	0.85143	0.50873	280.765	10.479	0.20330	5078.2
30.6946	0.8511	-0.0205	0.85136	0.51167	281.436	10.500	0.20335	5079.8
30.5209	0.8512	-0.0154	0.85131	0.51463	281.984	10.516	0.20339	5081.1
30.3473	0.8512	-0.0103	0.85127	0.51759	282.345	10.528	0.20342	5082.1
30.1736	0.8512	-0.0051	0.85124	0.52058	282.580	10.535	0.20344	5082.6
30.0000	0.8512	-0.0000	0.85123	0.52360	282.664	10.538	0.20344	5082.8

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.6808 ENTRPHY=38.5502
GAMMA (AVG.)=1.1839 STAG. ENTHALPY=4.429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6808	0.8510	-0.0495	0.85242	0.49487	315.801	10.617	0.19742	5520.7
31.5127	0.8511	-0.0445	0.85229	0.49776	317.363	10.661	0.19751	5524.5
31.3446	0.8512	-0.0396	0.85216	0.50064	318.757	10.701	0.19760	5527.8
31.1765	0.8514	-0.0346	0.85206	0.50349	319.987	10.736	0.19768	5530.5
31.0085	0.8514	-0.0297	0.85196	0.50635	321.054	10.766	0.19774	5533.1
30.8404	0.8515	-0.0248	0.85188	0.50920	321.960	10.793	0.19780	5535.1
30.6723	0.8516	-0.0198	0.85182	0.51205	322.706	10.814	0.19785	5536.8
30.5042	0.8516	-0.0149	0.85177	0.51491	323.291	10.831	0.19788	5538.0
30.3361	0.8517	-0.0099	0.85173	0.51778	323.715	10.842	0.19791	5539.2
30.1680	0.8517	-0.0050	0.85171	0.52068	323.975	10.850	0.19793	5539.6
30.0000	0.8517	-0.0000	0.85170	0.52360	324.068	10.852	0.19793	5540.0

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 34681.0 FT./SEC. ENTRAPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.5298 ENTRAPY=40.5022
 GAMMA (AVG.)=1.1554 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
31.5298	0.8524	-0.0421	0.85356	0.49739	429.513	11.584	0.18624	6445.5
31.3768	0.8525	-0.0406	0.85345	0.50003	431.448	11.629	0.18632	6448.6
31.2239	0.8526	-0.0361	0.85335	0.50265	433.175	11.669	0.18640	6451.4
31.0709	0.8527	-0.0316	0.85326	0.50526	434.697	11.704	0.18646	6453.8
30.9179	0.8527	-0.0271	0.85318	0.50787	436.018	11.735	0.18652	6455.8
30.7649	0.8528	-0.0226	0.85311	0.51047	437.139	11.762	0.18656	6457.4
30.6119	0.8529	-0.0181	0.85306	0.51307	438.062	11.783	0.18660	6458.9
30.4589	0.8529	-0.0136	0.85302	0.51568	438.785	11.800	0.18663	6460.0
30.3060	0.8529	-0.0091	0.85298	0.51830	439.309	11.812	0.18665	6460.8
30.1530	0.8530	-0.0045	0.85297	0.52094	439.629	11.819	0.18667	6461.5
30.0000	0.8530	0.0000	0.85296	0.52360	439.744	11.822	0.18667	6461.4

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 39635.5 FT./SEC. ENTRAPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=31.3916 ENTRAPY=42.4863
 GAMMA (AVG.)=1.1499 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
31.3916	0.8536	-0.0412	0.85462	0.49972	560.743	12.658	0.17738	7121.2
31.2524	0.8537	-0.0370	0.85452	0.50212	563.037	12.702	0.17745	7124.0
31.1132	0.8538	-0.0329	0.85444	0.50451	565.085	12.742	0.17751	7126.4
30.9741	0.8539	-0.0288	0.85436	0.50689	566.891	12.777	0.17757	7128.8
30.8349	0.8539	-0.0247	0.85430	0.50926	568.458	12.808	0.17762	7130.5
30.6958	0.8540	-0.0206	0.85424	0.51164	569.788	12.834	0.17766	7132.0
30.5566	0.8540	-0.0165	0.85420	0.51401	570.882	12.855	0.17769	7133.4
30.4175	0.8541	-0.0124	0.85416	0.51639	571.740	12.873	0.17772	7134.3
30.2783	0.8541	-0.0083	0.85414	0.51878	572.359	12.885	0.17773	7135.0
30.1392	0.8541	-0.0041	0.85412	0.52118	572.739	12.892	0.17775	7135.4
30.0000	0.8541	0.0000	0.85412	0.52360	572.874	12.894	0.17775	7135.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.5812 ENTRØPY=27.7986
GAMMA (AVG.)=1.3959 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5812	0.7362	-0.2494	0.77731	0.41659	4.642	2.713	0.59463	388.4
41.5730	0.7403	-0.2245	0.77363	0.43120	4.740	2.754	0.59981	390.7
40.5649	0.7440	-0.1999	0.77043	0.44551	4.826	2.789	0.60436	392.7
39.5568	0.7473	-0.1755	0.76763	0.45970	4.901	2.820	0.60835	394.4
38.5487	0.7501	-0.1512	0.76521	0.47394	4.967	2.847	0.61183	395.9
37.5406	0.7525	-0.1267	0.76313	0.48836	5.023	2.871	0.61484	397.2
36.5324	0.7545	-0.1021	0.76138	0.50307	5.071	2.890	0.61737	398.3
35.5243	0.7560	-0.0772	0.75997	0.51819	5.109	2.906	0.61941	399.1
34.5162	0.7571	-0.0520	0.75891	0.53384	5.138	2.918	0.62094	399.8
33.5081	0.7578	-0.0263	0.75823	0.55014	5.157	2.925	0.62192	400.2
32.5000	0.7580	0.0000	0.75796	0.56723	5.163	2.928	0.62228	400.3

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.6919 ENTRØPY=28.1927
GAMMA (AVG.)=1.3869 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6919	0.7694	-0.1871	0.79106	0.5420	7.460	3.413	0.48325	496.1
38.9727	0.7716	-0.1684	0.78980	0.46538	7.584	3.454	0.48579	498.4
38.2535	0.7736	-0.1498	0.78799	0.47636	7.694	3.490	0.48802	500.4
37.5343	0.7754	-0.1314	0.78641	0.48725	7.791	3.522	0.48997	502.2
36.8152	0.7769	-0.1130	0.78504	0.49814	7.876	3.549	0.49167	503.7
36.0960	0.7781	-0.0945	0.78387	0.50910	7.948	3.573	0.49312	504.0
35.3768	0.7792	-0.0760	0.78289	0.52020	8.009	3.592	0.49433	506.1
34.6576	0.7800	-0.0574	0.78211	0.53149	8.057	3.608	0.49529	506.9
33.9384	0.7806	-0.0385	0.78154	0.54305	8.093	3.619	0.49600	507.5
33.2192	0.7809	-0.0194	0.78117	0.55494	8.115	3.627	0.49646	507.9
32.5000	0.7810	0.0000	0.78102	0.56723	8.124	3.629	0.49661	508.1

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=38.3150 ENTRPHY=28.6592

GAMMA (AVG.)=1.3715 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.3150	0.7846	-0.1550	0.79974	0.47370	11.090	4.000	0.42492	629.3
37.7335	0.7861	-0.1394	0.79833	0.46301	11.248	4.042	0.42654	631.7
37.1520	0.7874	-0.1240	0.79709	0.49219	11.388	4.078	0.42796	633.8
36.5705	0.7885	-0.1087	0.79600	0.50129	11.511	4.110	0.42921	635.7
35.9890	0.7896	-0.0934	0.79506	0.51038	11.618	4.138	0.43029	637.3
35.4075	0.7904	-0.0781	0.79426	0.51950	11.709	4.162	0.43121	638.6
34.8260	0.7911	-0.0627	0.79359	0.52871	11.786	4.182	0.43197	639.8
34.2445	0.7917	-0.0473	0.79306	0.53804	11.846	4.197	0.43258	640.7
33.6630	0.7920	-0.0317	0.79267	0.54754	11.891	4.209	0.43302	641.3
33.0815	0.7923	-0.0159	0.79242	0.55725	11.919	4.216	0.43330	641.7
32.5000	0.7923	0.0000	0.79233	0.56723	11.929	4.219	0.43340	641.9

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.5183 ENTRPHY=29.1526

GAMMA (AVG.)=1.3536 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.5183	0.7931	-0.1356	0.80465	0.48544	15.530	4.490	0.38659	785.1
37.0165	0.7943	-0.1220	0.80357	0.49362	15.726	4.532	0.38977	787.7
36.5147	0.7952	-0.1085	0.80262	0.50168	15.900	4.569	0.39081	790.0
36.0128	0.7961	-0.0951	0.80178	0.50969	16.053	4.601	0.39172	792.0
35.5110	0.7969	-0.0817	0.80106	0.51767	16.187	4.629	0.39251	793.7
35.0092	0.7975	-0.0682	0.80045	0.52568	16.300	4.653	0.39318	795.1
34.5073	0.7981	-0.0548	0.79994	0.53374	16.395	4.673	0.39374	796.3
34.0055	0.7985	-0.0413	0.79954	0.54189	16.470	4.689	0.39417	797.3
33.5037	0.7988	-0.0276	0.79924	0.55016	16.525	4.701	0.39449	798.0
33.0018	0.7989	-0.0139	0.79905	0.55860	16.559	4.708	0.39470	798.4
32.5000	0.7990	0.0000	0.79898	0.56723	16.572	4.711	0.39477	798.6

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.= 0.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.6281 ENTRPHY=30.1384
 GAMMA (AVG.)=1.3246 STAG. ENTHALPHY=3.3873E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.6281	0.8025	-0.1133	0.81048	0.49898	26.835	5.264	0.34562	1157.2
36.2153	0.8033	-0.1020	0.80972	0.50583	27.121	5.306	0.34640	1160.2
35.8025	0.8040	-0.0907	0.80906	0.51259	27.376	5.344	0.34709	1162.9
35.3897	0.8046	-0.0794	0.80848	0.51931	27.601	5.377	0.34769	1165.2
34.9769	0.8051	-0.0682	0.80797	0.52600	27.796	5.406	0.34821	1167.2
34.5641	0.8055	-0.0569	0.80754	0.53271	27.962	5.430	0.34866	1168.9
34.1512	0.8059	-0.0457	0.80719	0.53945	28.100	5.450	0.34902	1170.3
33.7384	0.8062	-0.0344	0.80691	0.54624	28.209	5.466	0.34931	1171.4
33.3256	0.8064	-0.0230	0.80670	0.55312	28.289	5.478	0.34952	1172.2
32.9128	0.8065	-0.0116	0.80657	0.56011	28.338	5.485	0.34965	1172.7
32.5000	0.8065	-0.0000	0.80652	0.56723	28.356	5.488	0.34970	1172.9

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.= 10.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.1465 ENTRPHY=31.0746
 GAMMA (AVG.)=1.3078 STAG. ENTHALPHY=5.1947E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.1465	0.8075	-0.1010	0.81377	0.50650	41.373	5.843	0.32159	1607.4
35.7818	0.8081	-0.0908	0.81319	0.51260	41.768	5.885	0.32219	1611.0
35.4172	0.8086	-0.0807	0.81267	0.51863	42.120	5.923	0.32273	1614.2
35.0525	0.8091	-0.0707	0.81220	0.52462	42.430	5.956	0.32320	1616.9
34.6879	0.8095	-0.0607	0.81180	0.53060	42.699	5.985	0.32360	1619.3
34.3232	0.8099	-0.0507	0.81146	0.53658	42.928	6.010	0.32395	1621.4
33.9586	0.8102	-0.0406	0.81118	0.54258	43.118	6.030	0.32423	1623.1
33.5939	0.8104	-0.0306	0.81096	0.54863	43.268	6.046	0.32445	1624.4
33.2293	0.8105	-0.0204	0.81080	0.55474	43.377	6.058	0.32461	1625.4
32.8646	0.8106	-0.0103	0.81070	0.56093	43.445	6.065	0.32472	1626.0
32.5000	0.8107	-0.0000	0.81066	0.56723	43.469	6.068	0.32475	1626.2

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=35-B530 ENTRØPY=31.9446
GAMMA (AVG.)=1.2987 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
35.8530	0.8105	-0.0933	0.81587	0.51115	59.143	6.278	0.30675	2198.4
35.5177	0.8110	-0.0839	0.81536	0.51679	59.666	6.321	0.30726	2142.7
35.1824	0.8115	-0.0746	0.81491	0.52236	60.132	6.359	0.30772	2146.5
34.8471	0.8119	-0.0653	0.81452	0.52790	60.542	6.392	0.30811	2149.9
34.5118	0.8122	-0.0561	0.81417	0.53343	60.898	6.421	0.30846	2152.8
34.1765	0.8125	-0.0468	0.81388	0.53896	61.202	6.446	0.30875	2155.3
33.8412	0.8128	-0.0375	0.81364	0.54450	61.452	6.466	0.30899	2157.3
33.5059	0.8130	-0.0282	0.81346	0.55009	61.650	6.482	0.30918	2158.9
33.1706	0.8131	-0.0189	0.81332	0.55573	61.794	6.494	0.30931	2160.1
32.8353	0.8132	-0.0095	0.81323	0.56144	61.883	6.501	0.30940	2160.8
32.5000	0.8132	0.0000	0.81320	0.56723	61.915	6.503	0.30943	2161.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=35.5381 ENTRØPY=32.8012
GAMMA (AVG.)=1.1700 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
35.5381	0.8137	-0.0852	0.81817	0.51596	80.119	6.824	0.27710	2658.1
35.2343	0.8141	-0.0766	0.81774	0.52115	80.771	6.870	0.27739	2661.3
34.9305	0.8145	-0.0681	0.81737	0.52629	81.351	6.912	0.27764	2664.1
34.6267	0.8149	-0.0596	0.81704	0.53138	81.861	6.948	0.27785	2666.7
34.3229	0.8152	-0.0511	0.81675	0.53644	82.303	6.979	0.27806	2668.7
34.0190	0.8154	-0.0426	0.81651	0.54150	82.678	7.006	0.27822	2670.6
33.7152	0.8156	-0.0342	0.81631	0.54657	82.988	7.028	0.27836	2672.0
33.4114	0.8157	-0.0257	0.81615	0.55166	83.231	7.046	0.27845	2673.1
33.1076	0.8159	-0.0172	0.81604	0.55680	83.408	7.058	0.27854	2674.0
32.8038	0.8159	-0.0086	0.81597	0.56198	83.518	7.066	0.27858	2674.5
32.5000	0.8159	0.0000	0.81594	0.56724	83.557	7.069	0.27860	2674.7

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=35.1530 ENTRPHY=33.6228
GAMMA (AVG.)=1.1425 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.1530	0.8176	-0.0749	0.82103	0.52222	104.361	7.690	0.25612	2999.1
34.8877	0.8179	-0.0673	0.82071	0.522678	105.103	7.737	0.25634	3001.6
34.6224	0.8182	-0.0598	0.82041	0.53129	105.763	7.779	0.25655	3003.9
34.3571	0.8185	-0.0524	0.82016	0.53577	106.344	7.816	0.25674	3005.8
34.0918	0.8187	-0.0449	0.81994	0.54022	106.847	7.847	0.25689	3007.7
33.8265	0.8189	-0.0375	0.81975	0.54467	107.274	7.874	0.25702	3009.3
33.5612	0.8190	-0.0300	0.81960	0.54912	107.626	7.897	0.25714	3010.4
33.2959	0.8192	-0.0226	0.81948	0.55359	107.903	7.915	0.25722	3011.1
33.0306	0.8193	-0.0151	0.81939	0.55809	108.104	7.927	0.25728	3012.0
32.7653	0.8193	-0.0076	0.81933	0.56264	108.228	7.935	0.25732	3012.3
32.5000	0.8193	0.0000	0.81931	0.56723	108.272	7.938	0.25732	3012.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.8459 ENTRPHY=34.4328
GAMMA (AVG.)=1.1450 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.8459	0.8207	-0.0665	0.82338	0.52731	131.847	8.591	0.24136	3304.4
34.6113	0.8209	-0.0598	0.82312	0.53135	132.674	8.637	0.24155	3306.7
34.3767	0.8212	-0.0532	0.82289	0.53535	133.410	8.679	0.24172	3308.8
34.1421	0.8214	-0.0465	0.82269	0.53932	134.057	8.715	0.24187	3310.6
33.9075	0.8215	-0.0399	0.82252	0.54327	134.619	8.746	0.24201	3312.3
33.6729	0.8217	-0.0333	0.82237	0.54722	135.096	8.773	0.24213	3313.8
33.4383	0.8218	-0.0267	0.82225	0.55118	135.489	8.795	0.24222	3315.0
33.2037	0.8219	-0.0200	0.82215	0.55515	135.798	8.812	0.24230	3315.7
32.9691	0.8220	-0.0134	0.82208	0.55914	136.022	8.825	0.24234	3316.4
32.7345	0.8220	-0.0067	0.82204	0.56317	136.159	8.832	0.24238	3316.9
32.5000	0.8220	0.0000	0.82202	0.56723	136.208	8.835	0.24237	3317.1

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.6209 ENTRPHY=35.2408
GAMMA (AVG.)=1.1667 STAG. ENTHALPY=1.9803E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.6209	0.8229	-0.0603	0.82514	0.53108	162.568	9.418	0.23185	3608.0
34.4088	0.8231	-0.0543	0.82492	0.53472	163.486	9.463	0.23203	3610.7
34.1967	0.8233	-0.0482	0.82474	0.53834	164.304	9.503	0.23220	3613.0
33.9846	0.8235	-0.0422	0.82457	0.54193	165.025	9.538	0.23232	3614.8
33.7725	0.8236	-0.0362	0.82443	0.54552	165.650	9.569	0.23245	3616.5
33.5604	0.8238	-0.0302	0.82431	0.54910	166.181	9.596	0.23256	3617.7
33.3484	0.8239	-0.0242	0.82421	0.55269	166.619	9.617	0.23264	3619.0
33.1363	0.8239	-0.0182	0.82413	0.55628	166.962	9.633	0.23270	3620.2
32.9242	0.8240	-0.0121	0.82407	0.55990	167.211	9.647	0.23276	3620.5
32.7121	0.8240	-0.0061	0.82404	0.56355	167.364	9.654	0.23279	3621.0
32.5000	0.8240	-0.0000	0.82402	0.56723	167.419	9.658	0.23279	3620.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.4743 ENTRPHY=36.0551
GAMMA (AVG.)=1.1992 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4743	0.8244	-0.0562	0.82630	0.53356	196.527	10.063	0.22689	3954.9
34.2768	0.8246	-0.0506	0.82611	0.53695	197.556	10.107	0.22706	3957.6
34.0794	0.8247	-0.0450	0.82595	0.54032	198.474	10.147	0.22721	3960.2
33.8820	0.8249	-0.0394	0.82581	0.54366	199.284	10.181	0.22734	3962.4
33.6845	0.8250	-0.0338	0.82568	0.54700	199.987	10.211	0.22746	3964.4
33.4871	0.8251	-0.0282	0.82558	0.55034	200.584	10.236	0.22757	3966.1
33.2897	0.8252	-0.0226	0.82549	0.55369	201.075	10.257	0.22764	3967.7
33.0923	0.8252	-0.0169	0.82542	0.55704	201.461	10.274	0.22770	3968.4
32.8948	0.8253	-0.0113	0.82537	0.56041	201.740	10.285	0.22775	3969.3
32.6974	0.8253	-0.0057	0.82534	0.56381	201.912	10.292	0.22778	3969.9
32.5000	0.8253	0.0000	0.82533	0.56724	201.973	10.295	0.22779	3970.1

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.4327 ENTRPHY=36.8919
GAMMA (AVG.)=1.2198 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4327	0.8248	-0.0551	0.82663	0.53427	233.703	10.264	0.22644	4462.5
34.2394	0.8250	-0.0496	0.82645	0.53758	234.899	10.305	0.22662	4466.7
34.0461	0.8251	-0.0441	0.82630	0.54087	235.967	10.342	0.22678	4470.9
33.8528	0.8253	-0.0386	0.82616	0.54415	236.908	10.374	0.22692	4474.3
33.6596	0.8254	-0.0331	0.82604	0.54742	237.726	10.403	0.22704	4476.9
33.4663	0.8255	-0.0276	0.82594	0.55069	238.420	10.426	0.22714	4479.7
33.2730	0.8256	-0.0221	0.82585	0.55396	238.992	10.446	0.22722	4481.6
33.0798	0.8256	-0.0166	0.82579	0.55725	239.441	10.461	0.22729	4483.4
32.8865	0.8257	-0.0111	0.82574	0.56055	239.766	10.472	0.22734	4484.5
32.6932	0.8257	-0.0056	0.82571	0.56388	239.965	10.479	0.22737	4485.2
32.5000	0.8257	0.0000	0.82570	0.56723	240.037	10.481	0.22737	4485.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.4257 ENTRPHY=37.7429
GAMMA (AVG.)=1.2119 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4257	0.8249	-0.0549	0.82668	0.53438	274.100	10.297	0.22528	5051.6
34.2331	0.8250	-0.0494	0.82651	0.53768	275.500	10.341	0.22540	5055.1
34.0405	0.8252	-0.0439	0.82635	0.54096	276.749	10.381	0.22551	5058.2
33.8479	0.8253	-0.0384	0.82622	0.54423	277.851	10.415	0.22561	5061.0
33.6554	0.8254	-0.0330	0.82610	0.54749	278.808	10.445	0.22569	5063.4
33.4628	0.8255	-0.0275	0.82600	0.55075	279.621	10.471	0.22577	5065.4
33.2702	0.8256	-0.0220	0.82592	0.55401	280.291	10.492	0.22583	5067.1
33.0777	0.8257	-0.0165	0.82585	0.55728	280.816	10.508	0.22587	5068.4
32.8851	0.8257	-0.0110	0.82580	0.56058	281.197	10.520	0.22590	5069.3
32.6925	0.8258	-0.0055	0.82577	0.56389	281.430	10.527	0.22592	5069.8
32.5000	0.8258	0.0000	0.82576	0.56723	281.514	10.530	0.22593	5070.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRAPPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.3592 ENTRAPPY=38.5865
GAMMA AVG.=1.1830 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VH	V	THETA	P	RHB	MU	T (K)
34.3592	0.8255	-0.0531	0.82722	0.53547	317.729	10.632	0.21872	5541.9
34.1733	0.8257	-0.0478	0.82706	0.53886	319.298	10.676	0.21883	5545.5
33.9873	0.8258	-0.0424	0.82691	0.54184	320.699	10.716	0.21893	5548.7
33.8014	0.8259	-0.0371	0.82678	0.54500	321.934	10.751	0.21903	5551.4
33.6155	0.8261	-0.0319	0.82667	0.54815	323.006	10.782	0.21910	5554.0
33.4295	0.8262	-0.0266	0.82658	0.55130	323.916	10.807	0.21917	5556.0
33.2437	0.8262	-0.0213	0.82650	0.55446	324.665	10.827	0.21923	5557.7
33.0577	0.8263	-0.0160	0.82644	0.55762	325.253	10.846	0.21927	5558.9
32.8718	0.8263	-0.0107	0.82640	0.56080	325.679	10.858	0.21930	5559.9
32.6859	0.8264	-0.0053	0.82637	0.56400	325.940	10.865	0.21932	5560.6
32.5000	0.8264	0.0000	0.82636	0.56723	326.034	10.867	0.21933	5560.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRAPPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.2901 ENTRAPPY=39.4424
GAMMA AVG.=1.1673 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VH	V	THETA	P	RHB	MU	T (K)
34.2901	0.8262	-0.0512	0.82778	0.53661	364.595	11.008	0.21324	5982.7
34.1111	0.8263	-0.0460	0.82763	0.53969	366.331	11.053	0.21335	5986.1
33.9321	0.8265	-0.0409	0.82749	0.54275	367.879	11.093	0.21344	5988.8
33.7531	0.8266	-0.0358	0.82737	0.54580	369.245	11.128	0.21353	5991.5
33.5741	0.8267	-0.0307	0.82727	0.54884	370.429	11.159	0.21360	5993.8
33.3951	0.8268	-0.0256	0.82718	0.55188	371.415	11.185	0.21366	5995.7
33.2161	0.8269	-0.0205	0.82711	0.55492	372.263	11.206	0.21371	5997.1
33.0370	0.8269	-0.0154	0.82705	0.55797	372.913	11.223	0.21375	5998.4
32.8580	0.8269	-0.0103	0.82701	0.56104	373.383	11.235	0.21378	5999.3
32.6790	0.8270	-0.0052	0.82699	0.56412	373.671	11.242	0.21380	5999.9
32.5000	0.8270	0.0000	0.82698	0.56723	373.774	11.245	0.21381	6000.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=34.1102 ENTROPY=41.5304
GAMMA (AVG.)=1.1501 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.1102	0.8280	-0.0462	0.82925	0.53962	495.926	12.145	0.20091	6820.9
33.9492	0.8281	-0.0415	0.82912	0.54240	498.049	12.190	0.20099	6823.6
33.7881	0.8282	-0.0369	0.82901	0.54516	499.943	12.230	0.20107	6826.3
33.6271	0.8283	-0.0323	0.82892	0.54791	501.613	12.265	0.20114	6828.4
33.4661	0.8284	-0.0277	0.82883	0.55066	503.062	12.296	0.20120	6830.4
33.3051	0.8284	-0.0231	0.82876	0.55340	504.292	12.322	0.20126	6832.0
33.1441	0.8285	-0.0185	0.82870	0.55614	505.304	12.343	0.20130	6833.4
32.9830	0.8285	-0.0139	0.82866	0.55889	506.098	12.360	0.20133	6834.3
32.8220	0.8286	-0.0093	0.82862	0.56166	506.671	12.372	0.20135	6835.1
32.6610	0.8286	-0.0046	0.82860	0.56443	507.022	12.380	0.20137	6835.6
32.5000	0.8286	-0.0000	0.82860	0.56723	507.148	12.382	0.20137	6835.7

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=33.9643 ENTROPY=43.7062
GAMMA (AVG.)=1.1544 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.9643	0.8294	-0.0421	0.83045	0.54209	647.478	13.275	0.19208	7462.4
33.8179	0.8295	-0.0379	0.83035	0.54462	649.994	13.319	0.19216	7465.1
33.6714	0.8296	-0.0337	0.83026	0.54713	652.240	13.359	0.19223	7467.5
33.5250	0.8297	-0.0295	0.83018	0.54964	654.221	13.394	0.19229	7469.7
33.3786	0.8297	-0.0253	0.83011	0.55214	655.940	13.424	0.19235	7471.4
33.2321	0.8298	-0.0211	0.83005	0.55464	657.399	13.450	0.19239	7472.9
33.0857	0.8298	-0.0169	0.83000	0.55714	658.599	13.472	0.19243	7474.2
32.9393	0.8299	-0.0127	0.82996	0.55964	659.539	13.488	0.19246	7475.3
32.7928	0.8299	-0.0085	0.82994	0.56216	660.219	13.500	0.19248	7475.8
32.6464	0.8299	-0.0042	0.82992	0.56469	660.635	13.508	0.19249	7476.3
32.5000	0.8299	-0.0000	0.82991	0.56723	660.784	13.511	0.19249	7476.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.4917 ENTRØPY=27.8736
GAMMA (AVG.)=1.3945 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.4917	0.7009	-0.2483	0.74360	0.45349	5.176	2.871	0.64448	409.2
44.4425	0.7052	-0.2236	0.73978	0.46864	5.279	2.912	0.65041	411.5
43.3934	0.7090	-0.1991	0.73645	0.48355	5.369	2.948	0.65564	413.5
42.3442	0.7124	-0.1748	0.73353	0.49838	5.449	2.979	0.66024	415.2
41.2950	0.7153	-0.1506	0.73100	0.51329	5.518	3.006	0.66428	416.7
40.2459	0.7178	-0.1262	0.72882	0.52840	5.577	3.029	0.66776	417.9
39.1967	0.7199	-0.1017	0.72700	0.54382	5.628	3.049	0.67089	419.0
38.1475	0.7214	-0.0769	0.72553	0.55966	5.668	3.064	0.67306	419.8
37.0983	0.7226	-0.0517	0.72443	0.57603	5.698	3.076	0.67483	420.5
36.0492	0.7232	-0.0261	0.72372	0.59305	5.717	3.084	0.67596	420.9
35.0000	0.7234	0.0000	0.72344	0.61087	5.725	3.086	0.67639	421.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.5420 ENTRØPY=28.3173
GAMMA (AVG.)=1.3832 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.5420	0.7367	-0.1885	0.76045	0.49204	8.385	3.587	0.52329	530.6
41.7878	0.7391	-0.1696	0.75827	0.50374	8.518	3.628	0.52615	533.0
41.0336	0.7411	-0.1509	0.75635	0.51527	8.636	3.664	0.52867	535.0
40.2794	0.7430	-0.1323	0.75468	0.52672	8.740	3.696	0.53089	536.8
39.5252	0.7446	-0.1138	0.75322	0.53819	8.830	3.724	0.53281	538.3
38.7710	0.7459	-0.0952	0.75198	0.54973	8.907	3.747	0.53446	539.5
38.0168	0.7470	-0.0765	0.75095	0.56141	8.972	3.767	0.53583	540.7
37.2626	0.7479	-0.0577	0.75012	0.57330	9.024	3.782	0.53693	541.5
36.5084	0.7485	-0.0388	0.74951	0.58546	9.062	3.794	0.53773	542.2
35.7542	0.7489	-0.0195	0.74912	0.59796	9.086	3.801	0.53824	542.6
35.0000	0.7490	0.0000	0.74897	0.61087	9.095	3.804	0.53843	542.7

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NB.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=41.1410 ENTRPHY=28.8272
GAMMA (AVG.)=1.3654 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.1410	0.7531	-0.1575	0.76934	0.51192	12.524	4.178	0.46073	680.4
40.5269	0.7546	-0.1417	0.76783	0.52175	12.694	4.220	0.46255	682.9
39.9128	0.7561	-0.1260	0.76649	0.53144	12.845	4.256	0.46416	685.0
39.2987	0.7573	-0.1104	0.76532	0.54107	12.978	4.288	0.46557	686.9
38.6846	0.7584	-0.0949	0.76431	0.55069	13.093	4.316	0.46679	688.6
38.0705	0.7593	-0.0793	0.76344	0.56036	13.192	4.340	0.46783	689.9
37.4564	0.7601	-0.0637	0.76273	0.57010	13.275	4.360	0.46870	691.1
36.8423	0.7606	-0.0480	0.76216	0.57998	13.340	4.376	0.46938	692.0
36.2282	0.7611	-0.0322	0.76174	0.59004	13.388	4.387	0.46984	692.7
35.6141	0.7613	-0.0162	0.76147	0.60032	13.418	4.395	0.47020	693.1
35.0000	0.7614	-0.0000	0.76137	0.61086	13.429	4.397	0.47032	693.2

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NB.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=40.3259 ENTRPHY=29.3508
GAMMA (AVG.)=1.3467 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.3259	0.7624	-0.1386	0.77485	0.52396	17.585	4.668	0.42195	855.1
39.7933	0.7636	-0.1247	0.77368	0.53263	17.799	4.710	0.42328	857.7
39.2607	0.7646	-0.1109	0.77264	0.54119	17.988	4.747	0.42446	860.1
38.7281	0.7656	-0.0972	0.77174	0.54969	18.154	4.780	0.42549	862.1
38.1955	0.7664	-0.0835	0.77095	0.55818	18.299	4.808	0.42638	863.9
37.6630	0.7671	-0.0697	0.77029	0.56670	18.423	4.832	0.42714	865.4
37.1304	0.7677	-0.0560	0.76973	0.57527	18.526	4.852	0.42777	866.6
36.5978	0.7681	-0.0421	0.76929	0.58394	18.607	4.858	0.42827	867.6
36.0652	0.7685	-0.0282	0.76897	0.59274	18.667	4.880	0.42863	868.3
35.5326	0.7686	-0.0142	0.76877	0.60170	18.704	4.887	0.42886	869.7
35.0000	0.7687	0.0000	0.76869	0.61087	18.718	4.890	0.42894	869.9

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.4113 ENTRØPY=30.3995
GAMMA (AVG.)=1.3190 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.4113	0.7726	-0.1167	0.78136	0.53789	30.475	5.438	0.37646	1272.0
38.9702	0.7734	-0.1050	0.78054	0.54520	30.789	5.481	0.37735	1275.2
38.5291	0.7742	-0.0934	0.77980	0.55242	31.068	5.518	0.37813	1278.0
38.0879	0.7749	-0.0818	0.77916	0.55960	31.315	5.551	0.37882	1280.4
37.6468	0.7754	-0.0702	0.77861	0.56676	31.529	5.580	0.37942	1282.5
37.2056	0.7759	-0.0586	0.77813	0.57394	31.711	5.605	0.37992	1284.3
36.7645	0.7763	-0.0470	0.77774	0.58115	31.862	5.625	0.38034	1285.8
36.3234	0.7766	-0.0354	0.77743	0.58842	31.982	5.641	0.38067	1286.9
35.8822	0.7768	-0.0237	0.77721	0.59578	32.069	5.653	0.38091	1287.8
35.4411	0.7770	-0.0119	0.77707	0.60325	32.123	5.660	0.38106	1288.3
35.0000	0.7770	0.0000	0.77701	0.61087	32.143	5.662	0.38111	1288.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=38.9185 ENTRØPY=31.3779
GAMMA (AVG.)=1.3041 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.9185	0.7780	-0.1046	0.78503	0.54559	47.050	6.005	0.35135	1778.6
38.5266	0.7787	-0.0941	0.78437	0.55213	47.486	6.047	0.35204	1782.4
38.1348	0.7793	-0.0837	0.78378	0.55861	47.874	6.085	0.35266	1785.8
37.7429	0.7798	-0.0733	0.78327	0.56505	48.217	6.118	0.35319	1788.8
37.3511	0.7803	-0.0629	0.78282	0.57147	48.514	6.147	0.35366	1791.4
36.9592	0.7807	-0.0525	0.78244	0.57790	48.767	6.172	0.35406	1793.5
36.5674	0.7810	-0.0421	0.78213	0.58436	48.977	6.192	0.35438	1795.3
36.1755	0.7812	-0.0317	0.78188	0.59086	49.142	6.208	0.35464	1796.7
35.7837	0.7814	-0.0212	0.78170	0.59744	49.263	6.220	0.35482	1797.8
35.3918	0.7815	-0.0106	0.78159	0.60410	49.337	6.227	0.35494	1798.4
35.0000	0.7815	0.0000	0.78155	0.61087	49.364	6.230	0.35498	1798.6

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.59 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=38.6204 ENTRØPY=32.2795
GAMMA (AVG.)=1.2963 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.6204	0.7813	-0.0972	0.78731	0.55031	67.311	6.423	0.33601	2378.7
38.2581	0.7819	-0.0874	0.78674	0.55639	67.891	6.466	0.33660	2383.4
37.8963	0.7824	-0.0777	0.78624	0.56241	69.407	6.504	0.33712	2387.5
37.5342	0.7828	-0.0680	0.78579	0.56839	68.863	6.537	0.33758	2391.1
37.1722	0.7832	-0.0584	0.78541	0.57435	69.258	6.566	0.33798	2394.3
36.8102	0.7836	-0.0487	0.78508	0.58032	69.595	6.591	0.33832	2396.9
36.4481	0.7838	-0.0391	0.78481	0.58632	69.874	6.611	0.33859	2399.1
36.0861	0.7840	-0.0294	0.78460	0.59235	70.093	6.627	0.33881	2400.8
35.7240	0.7842	-0.0197	0.78444	0.59844	70.253	6.639	0.33897	2402.1
35.3620	0.7843	-0.0099	0.78434	0.60461	70.352	6.646	0.33907	2402.8
35.0000	0.7843	0.0000	0.78431	0.61087	70.387	6.649	0.33910	2403.1

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=38.1544 ENTRØPY=33.1937
GAMMA (AVG.)=1.1515 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.1544	0.7863	-0.0856	0.79099	0.55752	91.220	7.219	0.29543	2828.3
37.8389	0.7868	-0.0769	0.79054	0.56292	91.917	7.266	0.29576	2831.1
37.5235	0.7872	-0.0684	0.79015	0.56826	92.536	7.308	0.29603	2833.6
37.2081	0.7875	-0.0598	0.78980	0.57356	93.081	7.345	0.29629	2835.6
36.8926	0.7878	-0.0513	0.78950	0.57983	93.553	7.376	0.29651	2837.4
36.5772	0.7881	-0.0428	0.78925	0.58410	93.954	7.403	0.29668	2839.0
36.2617	0.7883	-0.0343	0.78904	0.58938	94.285	7.426	0.29683	2840.3
35.9463	0.7885	-0.0258	0.78888	0.59467	94.545	7.443	0.29696	2841.2
35.6309	0.7886	-0.0172	0.78876	0.60001	94.734	7.456	0.29704	2841.8
35.3154	0.7886	-0.0086	0.78868	0.60540	94.850	7.465	0.29708	2842.1
35.0000	0.7887	-0.0000	0.78865	0.61086	94.892	7.467	0.29711	2842.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15856.2 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.7382 ENTRBPY=34.0524
GAMMA (AVG.)=1.1410 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
37.7382	0.7908	-0.0768	0.79434	0.56434	118.851	8.182	0.27412	3166.8
37.4644	0.7911	-0.0673	0.79400	0.56905	119.638	8.228	0.27440	3169.4
37.1905	0.7914	-0.0598	0.79370	0.57370	120.339	8.270	0.27461	3171.5
36.9167	0.7917	-0.0523	0.79344	0.57833	120.956	8.306	0.27481	3173.5
36.6429	0.7919	-0.0449	0.79321	0.58253	121.490	8.337	0.27499	3175.5
36.3691	0.7921	-0.0376	0.79302	0.58753	121.944	8.364	0.27514	3176.7
36.0953	0.7923	-0.0300	0.79286	0.59214	122.318	8.386	0.27525	3178.1
35.8214	0.7924	-0.0225	0.79273	0.59676	122.612	8.404	0.27534	3178.7
35.5476	0.7925	-0.0151	0.79264	0.60141	122.825	8.417	0.27543	3179.3
35.2738	0.7926	-0.0076	0.79259	0.60611	122.957	8.424	0.27546	3179.8
35.0000	0.7926	-0.0000	0.79256	0.61085	123.004	8.427	0.27548	3180.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRBPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.4307 ENTRBPY=34.9248
GAMMA (AVG.)=1.1566 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
37.4307	0.7941	-0.0667	0.79688	0.56947	150.177	9.110	0.26015	3486.8
37.1876	0.7944	-0.0600	0.79662	0.57365	151.057	9.155	0.26036	3489.5
36.9446	0.7946	-0.0533	0.79638	0.57779	151.841	9.197	0.26055	3491.5
36.7015	0.7948	-0.0467	0.79617	0.58190	152.532	9.233	0.26074	3493.2
36.4584	0.7950	-0.0400	0.79599	0.58600	153.132	9.263	0.26089	3495.0
36.2153	0.7951	-0.0334	0.79583	0.59010	153.641	9.290	0.26101	3496.4
35.9723	0.7953	-0.0268	0.79571	0.59421	154.060	9.312	0.26112	3497.5
35.7292	0.7954	-0.0201	0.79561	0.59833	154.389	9.328	0.26120	3498.5
35.4861	0.7954	-0.0134	0.79554	0.60247	154.628	9.340	0.26126	3499.2
35.2431	0.7955	-0.0067	0.79549	0.60664	154.774	9.349	0.26130	3499.4
35.0000	0.7955	-0.0000	0.79547	0.61086	154.827	9.351	0.26132	3499.8

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.2238 ENTROPY=35.7905
GAMMA (AVG.)=1.1080 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.2238	0.7963	-0.0612	0.79863	0.57296	185.191	9.883	0.25227	5834.4
37.0014	0.7965	-0.0551	0.79840	0.57677	186.181	9.927	0.25248	3837.2
36.7790	0.7967	-0.0489	0.79820	0.58056	187.064	9.967	0.25268	3839.4
36.5566	0.7969	-0.0428	0.79803	0.58433	187.842	10.002	0.25283	3841.6
36.3343	0.7970	-0.0367	0.79787	0.58809	188.517	10.033	0.25296	3843.0
36.1119	0.7972	-0.0306	0.79774	0.59185	189.091	10.058	0.25309	3844.8
35.8895	0.7973	-0.0245	0.79764	0.59561	189.564	10.079	0.25318	3846.1
35.6671	0.7973	-0.0184	0.79755	0.59939	189.935	10.095	0.25326	3847.2
35.4447	0.7974	-0.0123	0.79749	0.60318	190.203	10.107	0.25331	3848.0
35.2224	0.7974	-0.0062	0.79746	0.60701	190.368	10.115	0.25335	3848.4
35.0000	0.7974	0.0000	0.79744	0.61087	190.427	10.117	0.25335	3848.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.1289 ENTROPY=36.6736
GAMMA (AVG.)=1.2187 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	HU	T (K)
37.1289	0.7973	-0.0587	0.79943	0.57457	223.885	10.288	0.25005	4301.2
36.9160	0.7975	-0.0528	0.79923	0.57821	225.028	10.331	0.25025	4304.9
36.7031	0.7977	-0.0469	0.79904	0.58184	226.048	10.368	0.25044	4308.4
36.4902	0.7978	-0.0411	0.79888	0.58544	226.947	10.400	0.25061	4311.8
36.2773	0.7980	-0.0352	0.79874	0.58904	227.728	10.429	0.25075	4314.3
36.0644	0.7981	-0.0294	0.79862	0.59264	228.392	10.453	0.25086	4316.3
35.8516	0.7982	-0.0235	0.79853	0.59625	228.938	10.473	0.25096	4318.4
35.6387	0.7983	-0.0177	0.79845	0.59987	229.367	10.488	0.25103	4319.9
35.4258	0.7983	-0.0118	0.79839	0.60351	229.678	10.501	0.25109	4320.4
35.2129	0.7983	-0.0059	0.79836	0.60717	229.868	10.507	0.25112	4321.2
35.0000	0.7983	0.0000	0.79835	0.61086	229.937	10.509	0.25113	4321.7

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.1380 ENTROPY=37.5846
GAMMA (AVG.)=1.2180 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.1380	0.7972	-0.0589	0.79936	0.57441	266.249	10.248	0.25047	4959.3
36.9242	0.7974	-0.0530	0.79915	0.57807	267.616	10.292	0.25063	4962.9
36.7104	0.7976	-0.0471	0.79896	0.58171	268.835	10.331	0.25078	4966.1
36.4966	0.7977	-0.0412	0.79880	0.58534	269.911	10.365	0.25090	4969.0
36.2828	0.7979	-0.0354	0.79866	0.58895	270.845	10.395	0.25101	4971.6
36.0690	0.7980	-0.0295	0.79854	0.59257	271.639	10.420	0.25110	4973.5
35.8552	0.7981	-0.0236	0.79844	0.59619	272.292	10.441	0.25118	4975.3
35.6414	0.7982	-0.0178	0.79836	0.59982	272.806	10.458	0.25124	4976.5
35.4276	0.7982	-0.0119	0.79831	0.60347	273.177	10.469	0.25128	4977.6
35.2138	0.7983	-0.0059	0.79827	0.60715	273.405	10.477	0.25130	4978.1
35.0000	0.7983	-0.0000	0.79826	0.61086	273.487	10.479	0.25131	4978.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=37.0620 ENTROPY=38.4841
GAMMA (AVG.)=1.1854 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0620	0.7980	-0.0569	0.80001	0.57565	312.289	10.589	0.24265	5482.5
36.8558	0.7982	-0.0512	0.79982	0.57919	313.838	10.633	0.24280	5486.0
36.6496	0.7983	-0.0455	0.79964	0.58271	315.220	10.673	0.24292	5489.4
36.4434	0.7985	-0.0398	0.79949	0.58621	316.439	10.708	0.24303	5492.2
36.2372	0.7986	-0.0342	0.79936	0.58971	317.497	10.738	0.24312	5494.7
36.0310	0.7987	-0.0285	0.79925	0.59320	318.396	10.764	0.24321	5496.8
35.8248	0.7988	-0.0228	0.79916	0.59670	319.136	10.785	0.24327	5498.5
35.6186	0.7989	-0.0171	0.79908	0.60020	319.717	10.802	0.24332	5499.8
35.4124	0.7989	-0.0115	0.79903	0.60373	320.137	10.814	0.24336	5500.9
35.2062	0.7990	-0.0057	0.79900	0.60728	320.395	10.821	0.24338	5501.4
35.0000	0.7990	-0.0000	0.79899	0.61086	320.487	10.824	0.24339	5501.7

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.9804 ENTRPHY=39.3965
GAMMA (AVG.)=1.1680 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.9804	0.7988	-0.0547	0.80071	0.57700	362.021	10.987	0.23605	5961.2
36.7824	0.7990	-0.0493	0.80053	0.58041	363.748	11.032	0.23618	5964.6
36.5843	0.7992	-0.0438	0.80037	0.58379	365.288	11.072	0.23630	5967.5
36.3863	0.7993	-0.0383	0.80023	0.58716	366.647	11.107	0.23640	5970.1
36.1882	0.7994	-0.0329	0.80011	0.59053	367.825	11.138	0.23649	5972.3
35.9902	0.7995	-0.0274	0.80001	0.59389	368.826	11.163	0.23656	5974.3
35.7922	0.7996	-0.0219	0.79992	0.59725	369.650	11.185	0.23662	5975.8
35.5941	0.7997	-0.0165	0.79986	0.60062	370.296	11.202	0.23667	5977.0
35.3961	0.7997	-0.0110	0.79981	0.60401	370.764	11.214	0.23670	5977.9
35.1980	0.7998	-0.0055	0.79978	0.60743	371.051	11.221	0.23672	5978.5
35.0000	0.7998	-0.0000	0.79977	0.61086	371.153	11.224	0.23673	5978.6

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.8913 ENTRPHY=40.2767
GAMMA (AVG.)=1.1573 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8913	0.7998	-0.0524	0.80149	0.57848	415.439	11.462	0.22967	6354.2
36.7022	0.7999	-0.0471	0.80132	0.58174	417.332	11.507	0.22979	6357.3
36.5131	0.8001	-0.0419	0.80118	0.58498	419.021	11.547	0.22989	6360.0
36.3239	0.8002	-0.0366	0.80105	0.58820	420.510	11.582	0.22999	6362.6
36.1348	0.8003	-0.0314	0.80094	0.59142	421.802	11.613	0.23007	6364.6
35.9457	0.8004	-0.0262	0.80084	0.59463	422.899	11.639	0.23013	6366.3
35.7565	0.8005	-0.0210	0.80077	0.59785	423.802	11.661	0.23019	6367.7
35.5674	0.8005	-0.0158	0.80070	0.60108	424.510	11.677	0.23024	6369.0
35.3782	0.8006	-0.0105	0.80066	0.60432	425.022	11.690	0.23027	6369.8
35.1891	0.8006	-0.0053	0.80063	0.60758	425.336	11.697	0.23029	6370.2
35.0000	0.8006	-0.0000	0.80062	0.61086	425.449	11.700	0.23029	6370.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.6948 ENTROPY=42.5495
GAMMA (AVG.)=1.1500 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
36.6948	0.8018	-0.0471	0.80321	0.58179	565.119	12.691	0.21682	7139.9
36.5253	0.8020	-0.0424	0.80308	0.58471	567.425	12.735	0.21692	7142.7
36.3558	0.8021	-0.0377	0.80296	0.58762	569.483	12.775	0.21701	7145.0
36.1864	0.8022	-0.0330	0.80286	0.59052	571.297	12.811	0.21709	7147.2
36.0169	0.8023	-0.0283	0.80277	0.59341	572.872	12.841	0.21715	7149.2
35.8474	0.8023	-0.0236	0.80269	0.59630	574.209	12.867	0.21721	7150.8
35.6779	0.8024	-0.0189	0.80263	0.59919	575.309	12.889	0.21726	7151.8
35.5084	0.8025	-0.0142	0.80258	0.60208	576.170	12.905	0.21729	7153.0
35.3389	0.8025	-0.0095	0.80254	0.60499	576.793	12.917	0.21732	7153.8
35.1695	0.8025	-0.0047	0.80252	0.60792	577.175	12.925	0.21734	7154.0
35.0000	0.8025	-0.0000	0.80251	0.61086	577.311	12.927	0.21734	7154.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=36.5477 ENTROPY=44.9176
GAMMA (AVG.)=1.1625 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
36.5477	0.8034	-0.0431	0.80452	0.58428	737.839	13.817	0.20842	7783.1
36.3930	0.8035	-0.0388	0.80440	0.58695	740.583	13.860	0.20850	7785.9
36.2382	0.8036	-0.0345	0.80431	0.58961	743.034	13.900	0.20858	7788.3
36.0834	0.8037	-0.0302	0.80422	0.59226	745.196	13.935	0.20865	7790.4
35.9286	0.8037	-0.0259	0.80414	0.59490	747.072	13.965	0.20871	7792.5
35.7739	0.8038	-0.0216	0.80408	0.59754	748.665	13.991	0.20876	7794.0
35.6191	0.8038	-0.0173	0.80403	0.60019	749.974	14.012	0.20880	7795.1
35.4643	0.8039	-0.0130	0.80399	0.60284	751.001	14.029	0.20883	7796.2
35.3095	0.8039	-0.0087	0.80396	0.60550	751.742	14.041	0.20886	7797.0
35.1547	0.8039	-0.0043	0.80394	0.60817	752.196	14.049	0.20887	7797.2
35.0000	0.8039	-0.0000	0.80393	0.61086	752.358	14.051	0.20888	7797.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.5358 ENTRØPY=27.9524
GAMMA (AVG.-1)=1.3929 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.5358	0.6620	-0.2479	0.70695	0.48879	5.734	3.022	0.70491	430.7
47.4322	0.6665	-0.2233	0.70294	0.50461	5.842	3.063	0.71195	433.0
46.3286	0.6706	-0.1989	0.69943	0.52024	5.937	3.098	0.71818	434.9
45.2251	0.6741	-0.1746	0.69636	0.53585	6.020	3.129	0.72371	436.7
44.1215	0.6772	-0.1504	0.69368	0.55156	6.093	3.157	0.72856	438.1
43.0179	0.6798	-0.1260	0.69139	0.56750	6.156	3.180	0.73276	439.4
41.9143	0.6819	-0.1015	0.68946	0.58378	6.208	3.199	0.73630	440.5
40.8107	0.6836	-0.0767	0.68791	0.60051	6.251	3.215	0.73916	441.3
39.7071	0.6848	-0.0516	0.68675	0.61779	6.283	3.227	0.74130	441.9
38.6036	0.6855	-0.0261	0.68600	0.63574	6.303	3.234	0.74266	442.3
37.5000	0.6857	0.0000	0.68571	0.65450	6.310	3.237	0.74317	442.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.4723 ENTRØPY=28.4427
GAMMA (AVG.-1)=1.3791 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.4723	0.7012	-0.11902	0.72653	0.52878	9.347	3.748	0.56980	566.1
44.6751	0.7037	-0.11712	0.72420	0.54110	9.489	3.789	0.57311	568.4
43.8779	0.7059	-0.11523	0.72216	0.55327	9.614	3.825	0.57604	570.5
43.0806	0.7079	-0.11336	0.72036	0.56539	9.725	3.857	0.57862	572.3
42.2834	0.7096	-0.11148	0.71881	0.57752	9.821	3.885	0.58087	573.8
41.4862	0.7110	-0.10961	0.71748	0.58975	9.903	3.909	0.58279	575.1
40.6889	0.7122	-0.10772	0.71637	0.60213	9.972	3.928	0.58439	576.2
39.8917	0.7131	-0.10583	0.71548	0.61473	10.027	3.944	0.58567	577.1
39.0945	0.7138	-0.10391	0.71483	0.62762	10.068	3.955	0.58662	577.7
38.2972	0.7141	-0.10197	0.71441	0.64085	10.093	3.963	0.58721	578.1
37.5000	0.7143	0.0000	0.71425	0.65450	10.102	3.965	0.58743	578.3

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=4.0246 ENTROPY=28.9924
GAMMA (AVG.)=1.3594 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.0246	0.7190	-0.1601	0.73661	0.54930	14.010	4.341	0.50153	732.6
43.3722	0.7207	-0.1440	0.73497	0.55972	14.193	4.383	0.50364	735.1
42.7197	0.7222	-0.1281	0.73353	0.57001	14.355	4.419	0.50549	737.3
42.0672	0.7236	-0.1123	0.73226	0.58025	14.498	4.452	0.50712	739.2
41.4148	0.7248	-0.0965	0.73116	0.59048	14.623	4.480	0.50854	740.9
40.7623	0.7258	-0.0807	0.73023	0.60076	14.729	4.504	0.50975	742.3
40.1098	0.7266	-0.0648	0.72945	0.61114	14.817	4.524	0.51075	743.5
39.4574	0.7272	-0.0488	0.72883	0.62165	14.888	4.539	0.51155	744.4
38.8049	0.7276	-0.0327	0.72838	0.63235	14.939	4.551	0.51213	745.1
38.1524	0.7279	-0.0165	0.72809	0.64328	14.971	4.558	0.51250	745.5
37.5000	0.7280	-0.0000	0.72798	0.65450	14.983	4.561	0.51263	745.7

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=43.1794 ENTROPY=29.5550
GAMMA (AVG.)=1.3403 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
43.1794	0.7292	-0.1416	0.74282	0.56178	19.715	4.831	0.45959	926.3
42.6114	0.7305	-0.1274	0.74154	0.57101	19.945	4.873	0.46112	929.0
42.0435	0.7317	-0.1133	0.74041	0.58013	20.150	4.911	0.46248	931.4
41.4756	0.7327	-0.0993	0.73942	0.58920	20.330	4.943	0.46368	933.5
40.9076	0.7336	-0.0853	0.73857	0.59826	20.487	4.972	0.46471	935.3
40.3397	0.7344	-0.0712	0.73784	0.60735	20.621	4.996	0.46559	936.9
39.7717	0.7350	-0.0572	0.73723	0.61650	20.732	5.016	0.46632	938.2
39.2038	0.7355	-0.0431	0.73675	0.62576	20.820	5.032	0.46690	939.2
38.6359	0.7358	-0.0288	0.73640	0.63515	20.884	5.043	0.46732	939.9
38.0679	0.7360	-0.0145	0.73618	0.64472	20.924	5.051	0.46758	940.4
37.5000	0.7361	-0.0000	0.73610	0.65450	20.939	5.053	0.46768	940.5

COMB SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.2308 ENTRPHY=30.6491
GAMMA (AVG.)=1.3143 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.2308	0.7404	-0.1201	0.75011	0.57623	34.242	5.595	0.41095	1389.2
41.7577	0.7414	-0.1081	0.74920	0.58405	34.584	5.638	0.41198	1392.5
41.2846	0.7422	-0.0961	0.74839	0.59180	34.889	5.675	0.41289	1395.4
40.8115	0.7429	-0.0842	0.74768	0.59949	35.157	5.707	0.41369	1398.0
40.3385	0.7436	-0.0722	0.74707	0.60718	35.391	5.737	0.41438	1400.2
39.8654	0.7441	-0.0603	0.74654	0.61487	35.589	5.762	0.41497	1402.1
39.3923	0.7445	-0.0484	0.74611	0.62261	35.754	5.782	0.41545	1403.6
38.9192	0.7449	-0.0364	0.74577	0.63042	35.884	5.798	0.41584	1404.8
38.4461	0.7451	-0.0244	0.74552	0.63832	35.979	5.810	0.41612	1405.7
37.9731	0.7453	-0.0122	0.74536	0.64633	36.038	5.817	0.41629	1406.3
37.5000	0.7453	0.0000	0.74530	0.65450	36.059	5.820	0.41635	1406.5

COMB SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=41.7229 ENTRPHY=31.6651
GAMMA (AVG.)=1.3011 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.7229	0.7464	-0.1083	0.75417	0.58416	52.923	6.148	0.38448	1954.0
41.3006	0.7471	-0.0974	0.75343	0.59120	53.402	6.190	0.38528	1958.1
40.8783	0.7478	-0.0866	0.75278	0.59818	53.827	6.228	0.38600	1961.7
40.4560	0.7484	-0.0758	0.75221	0.60511	54.202	6.262	0.38663	1964.9
40.0337	0.7489	-0.0651	0.75171	0.61203	54.528	6.291	0.38717	1967.6
39.6114	0.7493	-0.0543	0.75128	0.61896	54.806	6.315	0.38763	1969.9
39.1891	0.7497	-0.0436	0.75093	0.62592	55.036	6.336	0.38801	1971.8
38.7668	0.7499	-0.0328	0.75066	0.63294	55.217	6.352	0.38831	1973.3
38.3446	0.7501	-0.0219	0.75046	0.64002	55.349	6.363	0.38853	1974.4
37.9223	0.7503	-0.0110	0.75033	0.64720	55.431	6.370	0.38867	1975.1
37.5000	0.7503	0.0000	0.75028	0.65450	55.460	6.373	0.38872	1975.3

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=41.3069 ENTRØPY=32.6344
GAMMA (AVG.)=1.1850 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.3069	0.7512	-0.0986	0.75762	0.59048	75.726	6.698	0.34744	2564.8
40.9262	0.7518	-0.0886	0.75700	0.59695	76.355	6.743	0.34792	2568.6
40.5455	0.7523	-0.0788	0.75645	0.60334	76.913	6.783	0.34833	2572.0
40.1648	0.7528	-0.0689	0.75598	0.60968	77.404	6.818	0.34868	2575.0
39.7841	0.7532	-0.0592	0.75556	0.61600	77.830	6.849	0.34900	2577.5
39.4034	0.7536	-0.0494	0.75521	0.62231	78.192	6.875	0.34928	2579.7
39.0227	0.7539	-0.0396	0.75493	0.62864	78.491	6.896	0.34948	2581.4
38.6420	0.7541	-0.0297	0.75470	0.63500	78.726	6.913	0.34967	2582.8
38.2614	0.7543	-0.0199	0.75453	0.64142	78.897	6.925	0.34979	2583.9
37.8807	0.7544	-0.0100	0.75443	0.64791	79.003	6.932	0.34986	2584.6
37.5000	0.7544	0.0000	0.75439	0.65450	79.041	6.935	0.34990	2584.8

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=40.7723 ENTRØPY=33.5701
GAMMA (AVG.)=1.1432 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
40.7723	0.7573	-0.0856	0.76212	0.59911	102.693	7.633	0.31590	2978.1
40.4450	0.7578	-0.0769	0.76166	0.60471	103.430	7.679	0.31628	2980.9
40.1178	0.7582	-0.0684	0.76125	0.61025	104.085	7.721	0.31658	2983.2
39.7906	0.7585	-0.0598	0.76089	0.61575	104.661	7.758	0.31685	2985.1
39.4634	0.7588	-0.0513	0.76058	0.62123	105.160	7.789	0.31710	2987.0
39.1361	0.7591	-0.0428	0.76032	0.62671	105.584	7.816	0.31730	2988.6
38.8089	0.7593	-0.0343	0.76010	0.63219	105.934	7.838	0.31748	2989.7
38.4817	0.7595	-0.0258	0.75993	0.63770	106.208	7.856	0.31760	2990.5
38.1544	0.7596	-0.0172	0.75981	0.64324	106.408	7.868	0.31769	2991.5
37.8272	0.7597	-0.0086	0.75973	0.64884	106.531	7.876	0.31775	2991.8
37.5000	0.7597	0.0000	0.75970	0.65451	106.575	7.879	0.31777	2991.9

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=40.3408 ENTRPHY=34.4874
GAMMA (AVG.)=1.1458 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
40.3408	0.7622	-0.0748	0.76587	0.60621	133.821	8.650	0.29459	3324.7
40.0567	0.7626	-0.0673	0.76552	0.61108	134.653	8.696	0.29487	3327.0
39.7726	0.7629	-0.0598	0.76521	0.61591	135.394	8.738	0.29513	3329.0
39.4885	0.7631	-0.0524	0.76493	0.62071	136.046	8.773	0.29535	3331.1
39.2045	0.7634	-0.0449	0.76470	0.62549	136.612	8.805	0.29556	3332.7
38.9204	0.7636	-0.0375	0.76449	0.63027	137.092	8.830	0.29573	3334.4
38.6363	0.7637	-0.0300	0.76433	0.63506	137.488	8.853	0.29585	3335.1
38.3522	0.7639	-0.0226	0.76420	0.63986	137.799	8.871	0.29596	3336.1
38.0681	0.7640	-0.0151	0.76410	0.64469	138.024	8.883	0.29603	3336.8
37.7841	0.7640	-0.0076	0.76405	0.64957	138.163	8.890	0.29609	3337.3
37.5000	0.7640	-0.0000	0.76402	0.65449	138.213	8.893	0.29611	3337.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FFET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=40.0410 ENTRPHY=35.4031
GAMMA (AVG.)=1.1726 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
40.0410	0.7656	-0.0673	0.76853	0.61122	169.109	9.565	0.28182	3672.3
39.7869	0.7659	-0.0605	0.76825	0.61558	170.047	9.611	0.28208	3674.6
39.5328	0.7661	-0.0538	0.76800	0.61990	170.893	9.651	0.28231	3676.9
39.2787	0.7663	-0.0471	0.76778	0.62420	171.620	9.687	0.28250	3678.8
39.0246	0.7665	-0.0404	0.76759	0.62849	172.260	9.718	0.28257	3680.3
38.7705	0.7667	-0.0337	0.76742	0.63278	172.803	9.743	0.28283	3682.1
38.5164	0.7668	-0.0270	0.76729	0.63708	173.250	9.765	0.28295	3683.2
38.2623	0.7669	-0.0203	0.76719	0.64139	173.602	9.781	0.28304	3684.4
38.0082	0.7670	-0.0135	0.76711	0.64572	173.856	9.795	0.28312	3684.6
37.7541	0.7670	-0.0068	0.76706	0.65009	174.012	9.801	0.28315	3685.4
37.5000	0.7670	-0.0000	0.76704	0.65449	174.069	9.804	0.28317	3685.4

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=30.8664 ENTROPY=36.3296
GAMMA (AVG.)=1.2100 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8664	0.7675	-0.0628	0.77010	0.61417	208.553	10.208	0.27629	4093.1
39.6298	0.7679	-0.0565	0.76986	0.61822	209.627	10.251	0.27652	4096.2
39.3931	0.7680	-0.0502	0.76964	0.62224	210.585	10.290	0.27673	4098.8
39.1565	0.7682	-0.0440	0.76945	0.62625	211.431	10.323	0.27693	4101.5
38.9199	0.7684	-0.0377	0.76928	0.63025	212.165	10.353	0.27709	4103.6
38.6832	0.7685	-0.0314	0.76914	0.63425	212.788	10.378	0.27724	4105.3
38.4466	0.7686	-0.0252	0.76902	0.63826	213.302	10.399	0.27735	4106.8
38.2100	0.7687	-0.0189	0.76893	0.64228	213.705	10.415	0.27744	4108.1
37.9733	0.7689	-0.0126	0.76887	0.64632	213.997	10.427	0.27749	4108.9
37.7366	0.7688	-0.0063	0.76883	0.65039	214.176	10.433	0.27754	4109.6
37.5000	0.7688	-0.0000	0.76881	0.65450	214.240	10.436	0.27755	4109.9

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.8688 ENTROPY=37.2223
GAMMA (AVG.)=1.2215 STAG. ENTHALPY=2.4008E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8688	0.7675	-0.0628	0.77008	0.61414	252.143	10.200	0.27767	4770.0
39.6319	0.7678	-0.0565	0.76984	0.61819	253.443	10.243	0.27790	4775.1
39.3950	0.7680	-0.0503	0.76962	0.62222	254.603	10.281	0.27812	4778.6
39.1581	0.7682	-0.0440	0.76943	0.62623	255.626	10.314	0.27829	4781.4
38.9213	0.7683	-0.0377	0.76926	0.63023	256.515	10.343	0.27845	4784.6
38.6844	0.7685	-0.0315	0.76912	0.63423	257.270	10.367	0.27858	4786.9
38.4475	0.7686	-0.0252	0.76900	0.63824	257.891	10.388	0.27870	4788.7
38.2106	0.7687	-0.0189	0.76891	0.64227	258.379	10.404	0.27878	4790.4
37.9737	0.7687	-0.0127	0.76884	0.64631	258.733	10.415	0.27884	4791.4
37.7369	0.7688	-0.0063	0.76880	0.65039	258.950	10.422	0.27888	4792.0
37.5000	0.7688	-0.0000	0.76879	0.65450	259.028	10.425	0.27889	4792.3

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.7958 ENTROPY=38.2476
 GAMMA (AVG.)=1.1920 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7958	0.7683	-0.0610	0.77075	0.61533	299.866	10.491	0.27000	5340.5
39.5662	0.7686	-0.0549	0.77052	0.61926	301.368	10.535	0.27017	5344.1
39.3366	0.7688	-0.0488	0.77031	0.62317	302.709	10.575	0.27033	5347.4
39.1070	0.7689	-0.0427	0.77013	0.62707	303.891	10.609	0.27046	5350.4
38.8775	0.7691	-0.0366	0.76997	0.63096	304.917	10.640	0.27058	5352.8
38.6479	0.7692	-0.0305	0.76984	0.63484	305.788	10.666	0.27068	5355.0
38.4183	0.7693	-0.0245	0.76973	0.63873	306.506	10.687	0.27076	5356.7
38.1887	0.7694	-0.0184	0.76964	0.64264	307.069	10.703	0.27082	5358.1
37.9591	0.7695	-0.0123	0.76958	0.64656	307.477	10.715	0.27087	5359.1
37.7296	0.7695	-0.0062	0.76954	0.65051	307.727	10.723	0.27090	5359.6
37.5000	0.7695	-0.0000	0.76953	0.65450	307.817	10.726	0.27091	5359.8

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.6998 ENTROPY=39.2118
 GAMMA (AVG.)=1.1709 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6998	0.7694	-0.0586	0.77163	0.61691	351.741	10.905	0.26289	5871.7
39.4798	0.7696	-0.0527	0.77141	0.62069	353.432	10.950	0.26205	5875.1
39.2599	0.7698	-0.0468	0.77122	0.62444	354.941	10.990	0.26219	5878.0
39.0399	0.7700	-0.0410	0.77106	0.62818	356.271	11.025	0.26232	5880.7
38.8199	0.7701	-0.0352	0.77091	0.63192	357.425	11.055	0.26242	5882.9
38.5999	0.7702	-0.0293	0.77079	0.63564	358.406	11.081	0.26252	5884.9
38.3799	0.7703	-0.0235	0.77069	0.63938	359.213	11.102	0.26259	5886.5
38.1599	0.7704	-0.0176	0.77061	0.64313	359.846	11.119	0.26265	5887.8
37.9399	0.7705	-0.0118	0.77055	0.64689	360.304	11.131	0.26269	5888.6
37.7199	0.7705	-0.0059	0.77052	0.65068	360.585	11.139	0.26271	5889.2
37.5000	0.7705	-0.0000	0.77050	0.65450	360.686	11.141	0.26273	5889.3

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH N0.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.5965 ENTR0PY=40.1526

GAMMA (AVG.)=1.1586 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.4977	0.7716	-0.0534	0.77349	0.62028	467.949	11.912	0.24749	6672.6
39.2979	0.7718	-0.0480	0.77332	0.62372	469.994	11.957	0.24762	6675.7
39.0982	0.7720	-0.0427	0.77316	0.62714	471.819	11.997	0.24774	6678.4
38.8984	0.7721	-0.0374	0.77302	0.63055	473.428	12.033	0.24784	6680.7
38.6986	0.7722	-0.0320	0.77290	0.63395	474.824	12.063	0.24793	6682.6
38.4988	0.7723	-0.0267	0.77280	0.63735	476.009	12.089	0.24801	6684.3
38.2991	0.7724	-0.0214	0.77272	0.64075	476.984	12.111	0.24807	6685.7
38.0993	0.7725	-0.0161	0.77265	0.64416	477.749	12.128	0.24812	6686.7
37.8995	0.7725	-0.0107	0.77260	0.64758	478.302	12.139	0.24815	6687.7
37.6997	0.7726	-0.0054	0.77257	0.65103	478.641	12.147	0.24817	6688.0
37.5000	0.7726	-0.0000	0.77256	0.65450	478.762	12.150	0.24818	6688.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH N0.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.4977 ENTR0PY=41.1040

GAMMA (AVG.)=1.1516 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.4977	0.7716	-0.0534	0.77349	0.62028	467.949	11.912	0.24749	6672.6
39.2979	0.7718	-0.0480	0.77332	0.62372	469.994	11.957	0.24762	6675.7
39.0982	0.7720	-0.0427	0.77316	0.62714	471.819	11.997	0.24774	6678.4
38.8984	0.7721	-0.0374	0.77302	0.63055	473.428	12.033	0.24784	6680.7
38.6986	0.7722	-0.0320	0.77290	0.63395	474.824	12.063	0.24793	6682.6
38.4988	0.7723	-0.0267	0.77280	0.63735	476.009	12.089	0.24801	6684.3
38.2991	0.7724	-0.0214	0.77272	0.64075	476.984	12.111	0.24807	6685.7
38.0993	0.7725	-0.0161	0.77265	0.64416	477.749	12.128	0.24812	6686.7
37.8995	0.7725	-0.0107	0.77260	0.64758	478.302	12.139	0.24815	6687.7
37.6997	0.7726	-0.0054	0.77257	0.65103	478.641	12.147	0.24817	6688.0
37.5000	0.7726	-0.0000	0.77256	0.65450	478.762	12.150	0.24818	6688.2

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.2881 ENTROPY=43.5561
GAMMA (AVG.)=1.1536 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.2881	0.7740	-0.0480	0.77546	0.62381	636.570	13.202	0.23437	7421.7
19.1093	0.7741	-0.0432	0.77531	0.62690	639.058	13.247	0.23449	7424.4
18.9304	0.7742	-0.0384	0.77519	0.62996	641.279	13.287	0.23458	7426.8
18.7516	0.7743	-0.0336	0.77508	0.63302	643.238	13.322	0.23467	7428.8
18.5728	0.7744	-0.0288	0.77498	0.63607	644.938	13.353	0.23474	7430.6
18.3940	0.7745	-0.0240	0.77490	0.63912	646.381	13.378	0.23481	7432.3
18.2152	0.7746	-0.0192	0.77483	0.64217	647.588	13.399	0.23486	7433.7
18.0364	0.7746	-0.0144	0.77478	0.64523	648.498	13.416	0.23490	7434.6
17.8576	0.7747	-0.0096	0.77474	0.64830	649.170	13.429	0.23493	7435.1
17.6788	0.7747	-0.0048	0.77471	0.65139	649.582	13.436	0.23495	7435.7
17.5000	0.7747	-0.0000	0.77470	0.65450	649.729	13.438	0.23496	7436.0

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=39.1473 ENTROPY=46.1146
GAMMA (AVG.)=1.1719 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.1473	0.7755	-0.0443	0.77679	0.62620	831.142	14.254	0.22677	8111.4
38.9826	0.7756	-0.0399	0.77667	0.62904	834.130	14.298	0.22687	8114.4
38.8179	0.7758	-0.0354	0.77656	0.63187	836.799	14.337	0.22696	8117.0
38.6531	0.7758	-0.0310	0.77646	0.63469	839.154	14.372	0.22704	8119.0
38.4884	0.7759	-0.0266	0.77638	0.63750	841.198	14.402	0.22711	8121.2
38.3236	0.7760	-0.0222	0.77631	0.64032	842.933	14.427	0.22717	8122.8
38.1589	0.7761	-0.0177	0.77625	0.64313	844.360	14.448	0.22721	8124.2
37.9942	0.7761	-0.0133	0.77621	0.64595	845.478	14.465	0.22725	8125.3
37.8294	0.7761	-0.0089	0.77618	0.64879	846.286	14.477	0.22728	8126.0
37.6647	0.7761	-0.0045	0.77616	0.65163	846.780	14.484	0.22730	8126.5
37.5000	0.7761	-0.0000	0.77615	0.65450	846.957	14.486	0.22730	8126.7

CBNF SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=51.7507 ENTRPHY=28.0343
GAMMA (AVG.)=1.3911 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.7507	0.6190	-0.2481	0.66684	0.52205	6.316	3.165	0.78099	452.9
50.5756	0.6238	-0.2235	0.66258	0.53869	6.428	3.206	0.78976	455.2
49.4005	0.6280	-0.1991	0.65885	0.55520	6.528	3.241	0.79760	457.2
48.2255	0.6318	-0.1748	0.65557	0.57173	6.616	3.273	0.80458	459.9
47.0504	0.6351	-0.1506	0.65272	0.58843	6.692	3.300	0.81074	460.4
45.8753	0.6379	-0.1262	0.65026	0.60540	6.758	3.323	0.81609	461.6
44.7003	0.6402	-0.1016	0.64820	0.62274	6.814	3.343	0.82062	462.7
43.5252	0.6420	-0.0768	0.64655	0.64038	6.858	3.358	0.82428	463.5
42.3501	0.6432	-0.0517	0.64531	0.65900	6.891	3.370	0.82703	464.2
41.1750	0.6440	-0.0261	0.64451	0.67815	6.912	3.377	0.82878	464.6
40.0000	0.6447	0.0000	0.64420	0.69813	6.920	3.380	0.82943	464.7

CBNF SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.4988 ENTRPHY=28.5678
GAMMA (AVG.)=1.3747 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.4988	0.6626	-0.1922	0.68988	0.56419	10.341	3.897	0.62499	602.3
47.6489	0.6653	-0.1730	0.68737	0.57725	10.491	3.938	0.62896	604.6
46.7990	0.6677	-0.1539	0.68517	0.59018	10.624	3.975	0.63248	606.7
45.9491	0.6698	-0.1350	0.68323	0.60307	10.741	4.007	0.63558	608.5
45.0993	0.6716	-0.1161	0.68155	0.61600	10.844	4.034	0.63829	610.1
44.2494	0.6732	-0.0971	0.68012	0.62904	10.931	4.058	0.64061	611.5
43.3995	0.6744	-0.0780	0.67892	0.64225	11.004	4.078	0.64255	612.6
42.5496	0.6754	-0.0589	0.67797	0.65570	11.063	4.093	0.64410	613.5
41.6997	0.6761	-0.0395	0.67726	0.66945	11.106	4.105	0.64524	614.1
40.8499	0.6765	-0.0199	0.67681	0.68357	11.133	4.112	0.64596	614.5
40.0000	0.6766	0.0000	0.67664	0.69813	11.142	4.115	0.64622	614.7

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
 VELOCITY= 4954.4 FT./SEC. ENTRORPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=46.9770 ENTRORPY=29.1538
 GAMMA (AVG.)=1.3536 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.9770	0.6823	-0.1628	0.70140	0.58569	15.541	4.491	0.54886	785.5
46.2793	0.6841	-0.1465	0.69962	0.59678	15.737	4.533	0.55135	788.1
45.5816	0.6858	-0.1303	0.69805	0.60776	15.931	4.569	0.55355	790.4
44.8839	0.6873	-0.1142	0.69668	0.61869	16.064	4.602	0.55549	792.3
44.1862	0.6885	-0.0981	0.69548	0.62963	16.197	4.630	0.55718	794.0
43.4885	0.6896	-0.0820	0.69446	0.64063	16.311	4.654	0.55862	795.5
42.7908	0.6905	-0.0659	0.69362	0.65173	16.405	4.674	0.55982	796.7
42.0931	0.6912	-0.0496	0.69294	0.66298	16.480	4.690	0.56076	797.7
41.3954	0.6916	-0.0333	0.69245	0.67444	16.535	4.701	0.56146	798.4
40.6977	0.6919	-0.0167	0.69214	0.68614	16.570	4.709	0.56190	798.8
39.9999	0.6920	-0.0000	0.69202	0.69813	16.582	4.711	0.56205	798.9

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 5945.3 FT./SEC. ENTRORPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=46.0883 ENTRORPY=29.7464
 GAMMA (AVG.)=1.3347 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.0883	0.6935	-0.1444	0.70044	0.59878	21.905	4.980	0.50274	998.4
43.4795	0.6950	-0.1302	0.70705	0.60863	22.153	5.022	0.50456	1001.2
42.8707	0.6963	-0.1158	0.70581	0.61839	22.373	5.060	0.50617	1003.7
42.2618	0.6974	-0.1014	0.70473	0.62810	22.567	5.093	0.50758	1005.8
41.6530	0.6984	-0.0871	0.70379	0.63781	22.735	5.121	0.50881	1007.7
41.0442	0.6992	-0.0728	0.70299	0.64756	22.879	5.145	0.50985	1009.3
40.4353	0.6999	-0.0584	0.70233	0.65737	22.999	5.166	0.51072	1010.6
39.8265	0.7004	-0.0440	0.70181	0.66730	23.093	5.181	0.51140	1011.7
39.2177	0.7008	-0.0295	0.70142	0.67738	23.163	5.193	0.51190	1012.4
38.6088	0.7010	-0.0148	0.70118	0.68764	23.206	5.200	0.51222	1012.9
38.0000	0.7011	-0.0000	0.70108	0.69813	23.221	5.203	0.51233	1013.1

CBNF SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.0942 ENTRPHY=30.8868
GAMMA (AVG.)=1.3105 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
45.0942	0.7059	-0.1235	0.71664	0.61389	38.112	5.736	0.45006	1508.1
44.5848	0.7070	-0.1111	0.71563	0.62229	38.483	5.779	0.45128	1511.6
44.0754	0.7079	-0.0988	0.71474	0.63061	38.813	5.817	0.45235	1514.6
43.5659	0.7087	-0.0865	0.71396	0.63889	39.103	5.850	0.45330	1517.3
43.0565	0.7094	-0.0743	0.71320	0.64716	39.356	5.879	0.45412	1519.6
42.5471	0.7100	-0.0620	0.71270	0.65545	39.572	5.903	0.45482	1521.6
42.0377	0.7105	-0.0498	0.71222	0.66378	39.750	5.924	0.45539	1523.2
41.5282	0.7109	-0.0374	0.71184	0.67219	39.891	5.940	0.45585	1524.5
41.0188	0.7111	-0.0250	0.71156	0.68070	39.994	5.951	0.45618	1525.4
40.5094	0.7113	-0.0126	0.71139	0.68934	40.057	5.959	0.45638	1526.0
40.0000	0.7113	0.0000	0.71132	0.69813	40.080	5.961	0.45646	1526.2

CBNF SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.5666 ENTRPHY=31.9304
GAMMA (AVG.)=1.2988 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.5666	0.7124	-0.1118	0.72115	0.62212	58.953	6.274	0.42182	2132.8
44.1100	0.7133	-0.1006	0.72033	0.62971	59.474	6.317	0.42278	2137.1
43.6533	0.7140	-0.0895	0.71959	0.63724	59.938	6.355	0.42363	2140.9
43.1966	0.7147	-0.0783	0.71895	0.64473	60.347	6.388	0.42437	2144.3
42.7400	0.7152	-0.0672	0.71840	0.65221	60.702	6.417	0.42502	2147.2
42.2833	0.7157	-0.0561	0.71797	0.65970	61.004	6.442	0.42557	2149.6
41.8266	0.7161	-0.0450	0.71753	0.66723	61.254	6.462	0.42602	2151.6
41.3700	0.7164	-0.0339	0.71723	0.67481	61.452	6.478	0.42638	2153.2
40.9133	0.7166	-0.0227	0.71700	0.68247	61.596	6.490	0.42666	2154.4
40.4566	0.7168	-0.0114	0.71686	0.69024	61.685	6.497	0.42680	2155.1
40.0000	0.7168	0.0000	0.71680	0.69813	61.717	6.500	0.42686	2155.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.0175 ENTRPHY=32.9559
GAMMA (AVG.)=1.1610 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.0175	0.7191	-0.0997	0.72600	0.63051	84.379	6.971	0.37229	2730.0
43.6158	0.7198	-0.0896	0.72534	0.63734	85.050	7.017	0.37283	2733.0
43.2140	0.7204	-0.0797	0.72475	0.64409	85.646	7.059	0.37330	2735.4
42.8123	0.7209	-0.0697	0.72424	0.65080	86.169	7.096	0.37371	2737.6
42.4105	0.7213	-0.0598	0.72380	0.65747	86.624	7.127	0.37408	2739.6
42.0088	0.7217	-0.0499	0.72343	0.66415	87.010	7.155	0.37437	2741.0
41.6070	0.7220	-0.0400	0.72312	0.67084	87.328	7.177	0.37462	2742.3
41.2052	0.7223	-0.0301	0.72288	0.67757	87.578	7.195	0.37486	2743.3
40.8035	0.7224	-0.0201	0.72270	0.68435	87.761	7.208	0.37496	2744.0
40.4017	0.7225	-0.0101	0.72259	0.69120	87.873	7.215	0.37508	2744.6
40.0000	0.7225	0.0000	0.72255	0.69816	87.913	7.218	0.37510	2744.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=43.4056 ENTRPHY=33.9320
GAMMA (AVG.)=1.1408 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
43.4056	0.7265	-0.0855	0.73152	0.64043	114.447	8.037	0.33907	3117.4
43.0650	0.7270	-0.0769	0.73103	0.64625	115.220	8.083	0.33947	3120.1
42.7245	0.7274	-0.0683	0.73061	0.65202	115.909	8.125	0.33983	3122.3
42.3839	0.7278	-0.0598	0.73024	0.65775	116.514	8.161	0.34015	3124.2
42.0434	0.7281	-0.0513	0.72991	0.66346	117.039	8.193	0.34041	3125.9
41.7028	0.7284	-0.0428	0.72964	0.66916	117.485	8.220	0.34065	3127.5
41.3622	0.7286	-0.0343	0.72941	0.67488	117.853	8.242	0.34083	3128.6
41.0217	0.7288	-0.0258	0.72923	0.68062	118.141	8.259	0.34099	3129.6
40.6811	0.7289	-0.0172	0.72910	0.68640	118.351	8.273	0.34109	3129.9
40.3405	0.7290	-0.0086	0.72902	0.69223	118.480	8.279	0.34114	3130.7
40.0000	0.7290	0.0000	0.72899	0.69813	118.526	8.283	0.34117	3130.7

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.9656 ENTR0PY=34.8982
GAMMA (AVG.)=1.1557 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

LIA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.9656	0.7318	-0.0750	0.73560	0.64771	149.157	9.083	0.31810	3476.9
42.6691	0.7321	-0.0675	0.73523	0.65279	150.034	9.130	0.31843	3479.1
42.3725	0.7324	-0.0600	0.73490	0.65783	150.815	9.170	0.31872	3481.2
42.0759	0.7327	-0.0525	0.73462	0.66284	151.504	9.206	0.31898	3483.2
41.7794	0.7330	-0.0450	0.73437	0.66783	152.101	9.237	0.31920	3484.7
41.4829	0.7332	-0.0376	0.73416	0.67283	152.608	9.264	0.31939	3486.1
41.1862	0.7334	-0.0301	0.73398	0.67783	153.026	9.285	0.31955	3487.4
40.8897	0.7335	-0.0226	0.73385	0.68285	153.354	9.302	0.31967	3488.4
40.5931	0.7336	-0.0151	0.73375	0.68790	153.592	9.314	0.31976	3489.0
40.2965	0.7336	-0.0076	0.73369	0.69299	153.738	9.322	0.31981	3489.3
40.0000	0.7337	0.0000	0.73366	0.69813	153.790	9.324	0.31983	3489.8

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.6834 ENTR0PY=35.8685
GAMMA (AVG.)=1.1912 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

LIA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.6834	0.7351	-0.0682	0.73827	0.65214	188.504	9.939	0.30704	3868.9
42.4151	0.7354	-0.0614	0.73796	0.65703	189.505	9.984	0.30733	3871.5
42.1467	0.7357	-0.0545	0.73770	0.66159	190.397	10.023	0.30761	3874.0
41.8784	0.7359	-0.0477	0.73746	0.66613	191.184	10.058	0.30784	3876.1
41.6100	0.7361	-0.0409	0.73726	0.67066	191.868	10.089	0.30804	3877.8
41.3417	0.7363	-0.0342	0.73708	0.67519	192.448	10.114	0.30821	3879.4
41.0733	0.7364	-0.0274	0.73694	0.67973	192.926	10.136	0.30835	3880.6
40.8050	0.7365	-0.0206	0.73683	0.68428	193.301	10.153	0.30845	3881.4
40.5367	0.7366	-0.0137	0.73674	0.68886	193.573	10.164	0.30854	3882.6
40.2683	0.7367	-0.0069	0.73669	0.69348	193.740	10.170	0.30857	3883.2
40.0000	0.7367	0.0000	0.73667	0.69813	193.800	10.173	0.30860	3883.3

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLWM PROPERTIES

SHOCK ANGLE=42.5888 ENTRPHY=36.8650
GAMMA (AVG.)=1.2199 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.5888	0.7362	-0.0659	0.73917	0.65405	232.489	10.770	0.30515	4441.6
42.3299	0.7365	-0.0593	0.73889	0.65847	233.678	10.310	0.30544	4446.2
42.0710	0.7368	-0.0527	0.73864	0.66287	234.739	10.347	0.30569	4450.0
41.8121	0.7370	-0.0461	0.73842	0.66725	235.674	10.380	0.30593	4453.0
41.5532	0.7372	-0.0396	0.73823	0.67162	236.487	10.407	0.30613	4456.2
41.2944	0.7373	-0.0330	0.73807	0.67599	237.177	10.431	0.30630	4458.8
41.0355	0.7375	-0.0264	0.73793	0.68037	237.745	10.450	0.30644	4460.9
40.7766	0.7376	-0.0199	0.73783	0.68477	238.192	10.466	0.30657	4462.5
40.5177	0.7376	-0.0133	0.73775	0.68919	238.515	10.477	0.30663	4463.6
40.2589	0.7377	-0.0066	0.73771	0.69364	238.713	10.484	0.30669	4464.2
40.0000	0.7377	0.0000	0.73769	0.69813	238.784	10.486	0.30669	4464.5

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLWM PROPERTIES

SHOCK ANGLE=42.5688 ENTRPHY=37.8820
GAMMA (AVG.)=1.2057 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.5668	0.7365	-0.0654	0.73938	0.65439	281.092	10.347	0.30200	5130.2
42.3101	0.7368	-0.0588	0.73911	0.65876	282.521	10.391	0.30221	5133.7
42.0534	0.7370	-0.0523	0.73886	0.66315	283.795	10.430	0.30240	5136.8
41.7968	0.7372	-0.0457	0.73864	0.66749	284.919	10.465	0.30257	5139.5
41.5401	0.7374	-0.0393	0.73846	0.67183	285.895	10.495	0.30272	5141.8
41.2834	0.7376	-0.0327	0.73830	0.67617	286.725	10.521	0.30284	5143.9
41.0267	0.7377	-0.0262	0.73817	0.68052	287.408	10.542	0.30294	5145.7
40.7700	0.7378	-0.0197	0.73806	0.68488	287.944	10.559	0.30302	5146.8
40.5133	0.7379	-0.0132	0.73799	0.68926	288.332	10.570	0.30308	5147.9
40.2567	0.7379	-0.0066	0.73794	0.69368	288.570	10.578	0.30311	5148.4
40.0000	0.7379	0.0000	0.73792	0.69813	288.654	10.580	0.30313	5148.6

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.4560 ENTR0PY=38.8943
GAMMA (AVG.)=1.1766 STAG. ENTHALPY=2.8923E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.4560	0.7378	-0.0627	0.74045	0.65621	334.307	10.764	0.29162	5710.4
42.2104	0.7380	-0.0564	0.74020	0.66042	335.937	10.810	0.29182	5713.8
41.9648	0.7383	-0.0501	0.73997	0.66460	337.390	10.849	0.29199	5716.9
41.7192	0.7385	-0.0439	0.73977	0.66877	338.672	10.884	0.29215	5719.7
41.4736	0.7386	-0.0376	0.73960	0.67293	339.785	10.915	0.29228	5721.9
41.2280	0.7388	-0.0314	0.73946	0.67709	340.730	10.941	0.29240	5724.0
40.9824	0.7389	-0.0251	0.73933	0.68126	341.508	10.962	0.29249	5725.6
40.7368	0.7390	-0.0189	0.73924	0.68544	342.119	10.979	0.29257	5726.8
40.4912	0.7391	-0.0126	0.73917	0.68964	342.560	10.991	0.29262	5727.8
40.2456	0.7391	-0.0063	0.73913	0.69387	342.831	10.998	0.29265	5728.3
40.0000	0.7391	-0.0000	0.73911	0.69811	342.929	11.001	0.29266	5728.5

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.3373 ENTR0PY=39.8970
GAMMA (AVG.)=1.1613 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.3373	0.7392	-0.0598	0.74161	0.65817	392.151	11.258	0.28253	6192.3
42.1036	0.7394	-0.0538	0.74138	0.66219	393.972	11.303	0.28272	6195.5
41.8699	0.7396	-0.0478	0.74117	0.66618	395.597	11.343	0.28287	6198.3
41.6361	0.7398	-0.0419	0.74099	0.67016	397.030	11.378	0.28301	6200.8
41.4024	0.7400	-0.0359	0.74083	0.67412	398.274	11.409	0.28314	6202.9
41.1687	0.7401	-0.0299	0.74070	0.67809	399.330	11.435	0.28324	6204.7
40.9349	0.7402	-0.0240	0.74059	0.68206	400.199	11.456	0.28333	6206.4
40.7012	0.7403	-0.0180	0.74050	0.68604	400.880	11.473	0.28339	6207.5
40.4674	0.7403	-0.0120	0.74044	0.69004	401.373	11.485	0.28344	6208.3
40.2337	0.7404	-0.0060	0.74040	0.69407	401.676	11.493	0.28347	6208.7
40.0000	0.7404	-0.0000	0.74039	0.69813	401.784	11.495	0.28348	6208.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.2200 ENTROPY=40.8976
GAMMA (AVG.)=1.1527 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.2200	0.7406	-0.0569	0.74275	0.66013	454.625	11.800	0.27425	6597.2
41.9980	0.7408	-0.0512	0.74255	0.66395	456.632	11.845	0.27441	6600.2
41.7760	0.7410	-0.0455	0.74236	0.66775	458.423	11.885	0.27455	6602.7
41.5540	0.7411	-0.0399	0.74219	0.67153	460.002	11.920	0.27468	6605.1
41.3320	0.7413	-0.0342	0.74205	0.67531	461.372	11.951	0.27479	6607.0
41.1100	0.7414	-0.0285	0.74193	0.67908	462.536	11.977	0.27489	6608.9
40.8880	0.7415	-0.0228	0.74183	0.68286	463.493	11.998	0.27496	6610.2
40.6660	0.7416	-0.0171	0.74176	0.68664	464.244	12.015	0.27502	6611.4
40.4440	0.7416	-0.0114	0.74170	0.69045	464.786	12.028	0.27506	6612.0
40.2220	0.7416	-0.0057	0.74166	0.69428	465.119	12.035	0.27509	6612.6
40.0000	0.7416	0.0000	0.74165	0.69813	465.238	12.037	0.27510	6612.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=42.1118 ENTROPY=41.9161
GAMMA (AVG.)=1.1496 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.1118	0.7418	-0.0543	0.74382	0.66195	521.728	12.353	0.26706	6946.7
41.9007	0.7420	-0.0488	0.74363	0.66558	523.919	12.398	0.26721	6949.5
41.6895	0.7422	-0.0434	0.74346	0.66920	525.875	12.439	0.26734	6951.9
41.4783	0.7423	-0.0380	0.74331	0.67280	527.600	12.474	0.26745	6954.1
41.2671	0.7425	-0.0326	0.74318	0.67640	529.097	12.505	0.26755	6956.0
41.0559	0.7426	-0.0272	0.74307	0.67999	530.367	12.530	0.26764	6957.7
40.8447	0.7427	-0.0218	0.74298	0.68359	531.412	12.552	0.26771	6958.8
40.6335	0.7427	-0.0163	0.74291	0.68720	532.232	12.569	0.26777	6960.0
40.4224	0.7428	-0.0109	0.74286	0.69082	532.824	12.581	0.26780	6960.7
40.2112	0.7428	-0.0055	0.74283	0.69446	533.187	12.588	0.26783	6961.2
40.0000	0.7428	0.0000	0.74282	0.69813	533.317	12.591	0.26784	6961.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=41.8943 ENTRØPY=44.5468
GAMMA (AVG.)=1.1547 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.9943	0.7444	-0.0489	0.74598	0.66562	709.740	13.660	0.25398	7685.1
41.7044	0.7445	-0.0440	0.74583	0.66888	712.412	13.704	0.25410	7687.8
41.5155	0.7447	-0.0391	0.74569	0.67213	714.798	13.744	0.25422	7690.2
41.3260	0.7448	-0.0342	0.74557	0.67537	716.903	13.779	0.25431	7692.3
41.1366	0.7449	-0.0293	0.74546	0.67860	718.730	13.809	0.25440	7694.2
40.9472	0.7450	-0.0245	0.74538	0.68183	720.281	13.835	0.25447	7695.7
40.7577	0.7450	-0.0196	0.74530	0.68507	721.557	13.856	0.25453	7696.9
40.5683	0.7451	-0.0147	0.74525	0.68831	722.557	13.873	0.25458	7697.9
40.3789	0.7451	-0.0098	0.74520	0.69157	723.279	13.885	0.25461	7698.7
40.1894	0.7452	-0.0049	0.74518	0.69484	723.721	13.892	0.25463	7699.3
40.0000	0.7452	-0.0000	0.74517	0.69813	723.879	13.895	0.25464	7699.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHØCK ANGLE=41.7685 ENTRØPY=47.2898
GAMMA (AVG.)=1.1808 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.7685	0.7458	-0.0457	0.74724	0.66776	926.689	14.565	0.24759	8470.2
41.5916	0.7460	-0.0412	0.74711	0.67080	929.943	14.609	0.24771	8473.3
41.4148	0.7461	-0.0366	0.74699	0.67384	932.850	14.647	0.24782	8476.1
41.2379	0.7462	-0.0320	0.74688	0.67686	935.416	14.682	0.24791	8478.7
41.0611	0.7463	-0.0275	0.74679	0.67988	937.643	14.712	0.24799	8480.7
40.8842	0.7464	-0.0229	0.74672	0.68290	939.533	14.737	0.24805	8482.5
40.7074	0.7464	-0.0183	0.74665	0.68593	941.088	14.758	0.24811	8484.1
40.5305	0.7465	-0.0138	0.74660	0.68896	942.306	14.774	0.24815	8485.3
40.3537	0.7465	-0.0092	0.74656	0.69200	943.185	14.786	0.24818	8486.0
40.1768	0.7465	-0.0046	0.74654	0.69505	943.724	14.793	0.24820	8486.6
40.0000	0.7465	-0.0000	0.74653	0.69813	943.916	14.795	0.24821	8486.9

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=55.2055 ENTROPY=28.1190

GAMMA (AVG.)=1.3889 STAG. ENTHALPY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.2055	0.5705	-0.2487	0.62235	0.55250	6.924	3.302	0.88303	476.0
53.9349	0.5757	-0.2241	0.61778	0.57014	7.042	3.342	0.89487	478.2
52.6644	0.5804	-0.1997	0.61375	0.58773	7.146	3.378	0.90557	480.2
51.3938	0.5845	-0.1754	0.61021	0.60542	7.238	3.409	0.91518	481.9
50.1233	0.5880	-0.1511	0.60712	0.62333	7.318	3.436	0.92374	483.4
48.8527	0.5910	-0.1266	0.60446	0.64159	7.387	3.460	0.93122	484.7
47.5822	0.5935	-0.1020	0.60223	0.66028	7.446	3.479	0.93759	485.8
46.3116	0.5955	-0.0771	0.60043	0.67954	7.492	3.495	0.94277	486.6
45.0411	0.5968	-0.0519	0.59908	0.69945	7.527	3.507	0.94667	487.2
43.7705	0.5976	-0.0262	0.59822	0.72015	7.549	3.514	0.94916	487.6
42.5000	0.5979	0.0000	0.59788	0.74177	7.557	3.517	0.95009	487.8

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=51.6488

ENTROPY=28.6918

GAMMA (AVG.)=1.3703 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.6488	0.6204	-0.1943	0.65013	0.59794	11.363	4.036	0.69258	639.1
50.7339	0.6233	-0.1749	0.64742	0.61186	11.522	4.077	0.69753	641.5
49.8190	0.6259	-0.1557	0.64502	0.62568	11.663	4.113	0.70192	643.6
48.9041	0.6282	-0.1366	0.64292	0.63949	11.787	4.145	0.70583	645.5
47.9893	0.6302	-0.1174	0.64109	0.65337	11.895	4.173	0.70924	647.0
47.0744	0.6319	-0.0982	0.63952	0.66738	11.988	4.197	0.71217	648.4
46.1595	0.6333	-0.0790	0.63822	0.68160	12.066	4.217	0.71462	649.5
45.2446	0.6344	-0.0595	0.63718	0.69607	12.127	4.232	0.71658	650.4
44.3297	0.6352	-0.0400	0.63641	0.71088	12.173	4.244	0.71803	651.1
43.4149	0.6356	-0.0201	0.63592	0.72609	12.201	4.251	0.71894	651.5
42.5000	0.6357	0.0000	0.63573	0.74177	12.212	4.254	0.71927	651.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FLWM PROPERTIES

SHOCK ANGLE=50.0161 ENTRPHY=29.3107
GAMMA (AVG.)=1.3482 STAG. ENTHALPY=1.4727E 07 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.0161	0.6425	-0.1655	0.66351	0.62083	17.110	4.629	0.60507	839.0
49.2645	0.6446	-0.1490	0.66156	0.63270	17.318	4.671	0.60812	841.6
48.5129	0.6464	-0.1325	0.65984	0.64448	17.503	4.708	0.61082	843.9
47.7613	0.6480	-0.1162	0.65834	0.65621	17.666	4.740	0.61320	846.0
47.0097	0.6494	-0.0998	0.65703	0.66797	17.808	4.769	0.61528	847.7
46.2581	0.6506	-0.0834	0.65591	0.67981	17.929	4.793	0.61705	849.2
45.5064	0.6515	-0.0670	0.65498	0.69177	18.030	4.813	0.61853	850.4
44.7548	0.6523	-0.0505	0.65425	0.70389	18.110	4.828	0.61970	851.4
44.0032	0.6528	-0.0338	0.65370	0.71623	18.169	4.840	0.62056	852.1
43.2516	0.6531	-0.0170	0.65336	0.72884	18.206	4.847	0.62110	852.5
42.5000	0.6532	-0.0000	0.65323	0.74176	18.219	4.850	0.62129	852.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLWM PROPERTIES

SHOCK ANGLE=49.0670 ENTRPHY=29.9305
GAMMA (AVG.)=1.3297 STAG. ENTHALPY=2.0127E 07 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
49.0670	0.6551	-0.1476	0.67158	0.63474	24.144	5.117	0.55326	1071.0
48.4103	0.6567	-0.1329	0.67004	0.64532	24.409	5.159	0.55546	1073.9
47.7536	0.6582	-0.1182	0.66868	0.65580	24.644	5.197	0.55742	1076.5
47.0969	0.6594	-0.1035	0.66749	0.66625	24.852	5.220	0.55914	1078.7
46.4402	0.6605	-0.0889	0.66646	0.67671	25.033	5.258	0.56063	1080.7
45.7835	0.6614	-0.0743	0.66556	0.68721	25.187	5.282	0.56191	1082.3
45.1268	0.6622	-0.0596	0.66465	0.69780	25.315	5.302	0.56297	1083.7
44.4701	0.6628	-0.0449	0.66427	0.70851	25.416	5.318	0.56380	1084.8
43.8134	0.6632	-0.0301	0.66385	0.71938	25.490	5.330	0.56442	1085.5
43.1567	0.6634	-0.0151	0.66358	0.73045	25.536	5.337	0.56480	1086.0
42.5000	0.6635	-0.0000	0.66348	0.74176	25.553	5.340	0.56494	1086.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.0128 ENTRPHY=31.1128
GAMMA IAVG.=1.3073 STAG. ENTHALPHY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0128	0.6689	-0.1268	0.66085	0.65071	42.060	5.864	0.49518	1628.2
47.4615	0.6701	-0.1141	0.67973	0.65976	42.460	5.906	0.49665	1631.8
46.9102	0.6711	-0.1014	0.67874	0.66874	42.815	5.944	0.49795	1635.0
46.1589	0.6720	-0.0888	0.67787	0.67768	43.129	5.977	0.49910	1637.8
45.8077	0.6726	-0.0763	0.67711	0.68662	43.401	6.006	0.50010	1640.3
45.2564	0.6735	-0.0637	0.67647	0.69558	43.633	6.031	0.50094	1642.3
44.7051	0.6740	-0.0511	0.67594	0.70459	43.825	6.051	0.50164	1644.0
44.1538	0.6744	-0.0384	0.67552	0.71369	43.977	6.067	0.50219	1645.4
43.6025	0.6747	-0.0257	0.67521	0.72290	44.088	6.079	0.50260	1646.3
43.0513	0.6749	-0.0129	0.67502	0.73225	44.157	6.086	0.50285	1646.9
42.5000	0.6749	0.0000	0.67494	0.74177	44.181	6.089	0.50294	1647.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.4580 ENTRPHY=32.1921
GAMMA IAVG.=1.2969 STAG. ENTHALPHY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.4589	0.6761	-0.1154	0.68588	0.65931	65.101	6.387	0.46458	2313.8
46.9030	0.6770	-0.1038	0.68496	0.66753	65.665	6.429	0.46574	2318.4
46.4471	0.6779	-0.0923	0.68414	0.67568	66.167	6.467	0.46677	2322.5
45.9912	0.6786	-0.0808	0.68342	0.68380	66.609	6.500	0.46767	2326.0
45.4754	0.6793	-0.0694	0.68280	0.69191	66.994	6.529	0.46846	2329.1
44.9795	0.6798	-0.0579	0.68227	0.70003	67.322	6.554	0.46913	2331.7
44.4836	0.6802	-0.0465	0.68183	0.70820	67.593	6.574	0.46967	2333.8
43.9877	0.6806	-0.0349	0.68149	0.71644	67.806	6.590	0.47011	2335.5
43.4918	0.6808	-0.0234	0.68123	0.72476	67.962	6.602	0.47043	2336.7
42.9959	0.6810	-0.0117	0.68107	0.73319	68.058	6.609	0.47062	2337.5
42.5000	0.6810	0.0000	0.68101	0.74176	68.093	6.612	0.47069	2337.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=46.7153 ENTROPY=33.2598
GAMMA (AVG.)=1.1497 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.7153	0.6856	-0.0998	0.69285	0.67073	93.179	7.291	0.40028	2854.7
46.2937	0.6863	-0.0898	0.69216	0.67789	93.883	7.338	0.40094	2857.5
45.8722	0.6869	-0.0798	0.69154	0.68498	94.508	7.380	0.40146	2859.7
45.4507	0.6875	-0.0698	0.69101	0.69201	95.058	7.417	0.40195	2861.7
45.0291	0.6879	-0.0599	0.69054	0.69903	95.534	7.449	0.40238	2863.6
44.6076	0.6883	-0.0500	0.69015	0.70604	95.940	7.476	0.40274	2865.1
44.1861	0.6887	-0.0401	0.68982	0.71307	96.274	7.498	0.40303	2866.4
43.7646	0.6889	-0.0301	0.68957	0.72014	96.537	7.516	0.40323	2867.2
43.3430	0.6891	-0.0201	0.68938	0.72726	96.728	7.528	0.40343	2868.3
42.9215	0.6892	-0.0101	0.68926	0.73446	96.845	7.536	0.40350	2868.6
42.5000	0.6892	-0.0000	0.68922	0.74176	96.888	7.539	0.40356	2868.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=46.0633 ENTROPY=34.2800
GAMMA (AVG.)=1.1427 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0633	0.6939	-0.0855	0.69910	0.68136	126.398	8.423	0.36563	3247.9
45.7070	0.6944	-0.0769	0.69860	0.68744	127.208	8.470	0.36611	3250.3
45.3507	0.6948	-0.0683	0.69816	0.69348	127.929	8.511	0.36653	3252.6
44.9943	0.6952	-0.0598	0.69776	0.69947	128.563	8.547	0.36689	3254.5
44.6380	0.6955	-0.0513	0.69743	0.70545	129.113	8.579	0.36722	3256.1
44.2817	0.6958	-0.0428	0.69714	0.71143	129.581	8.605	0.36749	3257.6
43.9253	0.6961	-0.0343	0.69690	0.71741	129.966	8.627	0.36770	3258.7
43.5690	0.6962	-0.0258	0.69672	0.72343	130.268	8.644	0.36786	3259.6
43.2127	0.6964	-0.0172	0.69658	0.72948	130.488	8.657	0.36800	3260.2
42.8563	0.6964	-0.0086	0.69650	0.73559	130.623	8.664	0.36806	3260.9
42.5000	0.6965	-0.0000	0.69646	0.74176	130.671	8.667	0.36811	3260.9

CBME SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.6205 ENTRPHY=35.2951
GAMMA (AVG.)=1.1685 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.5205	0.6994	-0.0755	0.70347	0.68872	164.745	9.468	0.34533	3629.4
45.3084	0.6998	-0.0679	0.70308	0.69405	165.669	9.513	0.34571	3632.0
44.9964	0.7001	-0.0604	0.70273	0.69934	166.492	9.554	0.34606	3633.9
44.6841	0.7004	-0.0528	0.70243	0.70461	167.218	9.589	0.34636	3636.0
44.3723	0.7007	-0.0453	0.70217	0.70987	167.848	9.620	0.34664	3637.6
44.0602	0.7009	-0.0378	0.70194	0.71512	168.383	9.646	0.34685	3639.1
43.7482	0.7011	-0.0303	0.70176	0.72039	168.824	9.667	0.34703	3640.4
43.4361	0.7012	-0.0227	0.70162	0.72567	169.170	9.684	0.34718	3641.3
43.1241	0.7013	-0.0152	0.70151	0.73099	169.420	9.696	0.34728	3642.0
42.8120	0.7014	-0.0076	0.70144	0.73635	169.575	9.704	0.34734	3642.4
42.5000	0.7014	0.0000	0.70142	0.74177	169.630	9.707	0.34737	3642.6

CBME SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.3706 ENTRPHY=36.3221
GAMMA (AVG.)=1.2097 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.3706	0.7025	-0.0697	0.70597	0.69291	208.219	10.204	0.33671	4089.1
45.0835	0.7028	-0.0628	0.70564	0.69781	209.292	10.248	0.33705	4092.1
44.7965	0.7031	-0.0558	0.70535	0.70268	210.249	10.287	0.33738	4094.8
44.5094	0.7034	-0.0488	0.70509	0.70753	211.093	10.320	0.33766	4097.4
44.2224	0.7036	-0.0419	0.70486	0.71237	211.826	10.350	0.33788	4099.4
43.9353	0.7038	-0.0349	0.70467	0.71722	212.449	10.375	0.33809	4101.3
43.6482	0.7040	-0.0280	0.70452	0.72207	212.962	10.396	0.33826	4102.9
43.3612	0.7041	-0.0210	0.70440	0.72695	213.365	10.411	0.33838	4104.2
43.0741	0.7042	-0.0140	0.70431	0.73185	213.656	10.423	0.33849	4105.0
42.7870	0.7042	-0.0070	0.70425	0.73678	213.836	10.430	0.33854	4105.4
42.5000	0.7042	0.0000	0.70423	0.74177	213.900	10.433	0.33855	4105.5

CBNE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19617.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.369R ENTRPHY=37.3007
GAMMA (AVG.)=1.2216 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
45.3698	0.7025	-0.0697	0.70598	0.69294	256.830	10.208	0.33827	4838.0
44.0828	0.7029	-0.0627	0.70565	0.69783	258.152	10.251	0.33859	4841.8
44.7959	0.7031	-0.0558	0.70535	0.70270	259.333	10.289	0.33888	4845.2
44.5084	0.7034	-0.0488	0.70510	0.70754	260.374	10.323	0.33914	4848.3
44.2219	0.7036	-0.0419	0.70487	0.71238	261.279	10.352	0.33936	4850.9
43.9349	0.7038	-0.0349	0.70468	0.71723	262.047	10.377	0.33953	4853.3
43.6479	0.7040	-0.0280	0.70453	0.72208	262.680	10.397	0.33970	4855.1
43.3609	0.7041	-0.0210	0.70440	0.72695	263.177	10.414	0.33981	4856.5
43.0740	0.7042	-0.0140	0.70431	0.73185	263.537	10.425	0.33990	4857.5
42.7870	0.7042	-0.0070	0.70426	0.73678	263.758	10.432	0.33996	4858.1
42.5000	0.7042	-0.0000	0.70424	0.74176	263.838	10.435	0.33997	4858.3

CBNE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21790.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.2575 ENTRPHY=38.4506
GAMMA (AVG.)=1.1863 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
45.2575	0.7039	-0.0672	0.70712	0.69476	310.517	10.574	0.32645	5462.3
44.9817	0.7042	-0.0604	0.70681	0.69948	312.059	10.619	0.32671	5466.1
44.7060	0.7045	-0.0537	0.70654	0.70417	313.435	10.659	0.32693	5469.4
44.4302	0.7047	-0.0470	0.70630	0.70884	314.649	10.694	0.32713	5472.2
44.1545	0.7049	-0.0403	0.70609	0.71350	315.702	10.724	0.32731	5474.7
43.8787	0.7051	-0.0336	0.70592	0.71816	316.597	10.750	0.32745	5476.8
43.6030	0.7053	-0.0269	0.70577	0.72283	317.33	10.771	0.32757	5478.6
43.3272	0.7054	-0.0202	0.70566	0.72752	317.912	10.788	0.32767	5479.9
43.0515	0.7054	-0.0135	0.70558	0.73223	318.331	10.800	0.32774	5480.9
42.7757	0.7055	-0.0068	0.70552	0.73698	318.588	10.807	0.32778	5481.5
42.5000	0.7055	-0.0000	0.70551	0.74176	318.680	10.810	0.32779	5481.7

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=45.1263 ENTRPHY=39.5264
 GAMMA (AVG.)=1.1661 STAG. ENTHALPHY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.1263	0.7055	-0.0642	0.70846	0.69692	369.314	11.046	0.31560	6022.2
44.8637	0.7058	-0.0577	0.70818	0.70142	371.065	11.090	0.31583	6025.6
44.6011	0.7061	-0.0513	0.70793	0.70590	372.627	11.131	0.31603	6028.4
44.3384	0.7063	-0.0449	0.70771	0.71036	374.004	11.166	0.31621	6031.1
44.0758	0.7065	-0.0385	0.70752	0.71481	375.200	11.197	0.31637	6033.2
43.8132	0.7066	-0.0321	0.70736	0.71926	376.215	11.222	0.31650	6035.2
43.5505	0.7068	-0.0257	0.70723	0.72372	377.050	11.244	0.31660	6036.6
43.2879	0.7069	-0.0193	0.70713	0.72819	377.706	11.260	0.31669	6037.9
43.0251	0.7069	-0.0129	0.70705	0.73268	378.180	11.273	0.31675	6038.7
42.7626	0.7070	-0.0065	0.70700	0.73721	378.471	11.280	0.31679	6039.3
42.5000	0.7070	0.0000	0.70699	0.74177	378.575	11.283	0.31680	6039.4

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 25763.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.9839 ENTRPHY=40.5611
 GAMMA (AVG.)=1.1549 STAG. ENTHALPHY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.9839	0.7073	-0.0609	0.70992	0.69929	433.219	11.616	0.30523	6469.1
44.7355	0.7076	-0.0548	0.70967	0.70355	435.164	11.661	0.30543	6472.0
44.4871	0.7078	-0.0487	0.70944	0.70780	436.900	11.701	0.30561	6474.6
44.2387	0.7080	-0.0426	0.70925	0.71202	438.430	11.736	0.30577	6477.1
43.9903	0.7081	-0.0365	0.70908	0.71624	439.758	11.767	0.30591	6479.3
43.7419	0.7083	-0.0305	0.70893	0.72046	440.886	11.793	0.30603	6480.8
43.4935	0.7084	-0.0244	0.70882	0.72468	441.813	11.815	0.30612	6482.3
43.2451	0.7085	-0.0183	0.70872	0.72892	442.541	11.831	0.30620	6483.4
42.9967	0.7085	-0.0122	0.70866	0.73317	443.068	11.843	0.30626	6484.2
42.7483	0.7086	-0.0061	0.70861	0.73745	443.390	11.851	0.30629	6484.7
42.5000	0.7086	-0.0000	0.70860	0.74176	443.506	11.854	0.30630	6484.9

CBME SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.8543 ENTRPHY=41.6255
GAMMA (AVG.)=1.1499 STAG. ENTHALPHY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.8543	0.7089	-0.0578	0.71126	0.70146	502.238	12.196	0.29635	6852.5
44.6189	0.7091	-0.0520	0.71103	0.70551	504.377	12.241	0.29653	6855.4
44.3834	0.7093	-0.0462	0.71083	0.70953	506.286	12.281	0.29669	6857.9
44.1480	0.7095	-0.0405	0.71065	0.71354	507.970	12.317	0.29684	6860.1
43.9126	0.7097	-0.0347	0.71050	0.71755	509.430	12.347	0.29696	6862.0
43.6771	0.7098	-0.0289	0.71037	0.72155	510.670	12.373	0.29707	6863.6
43.4417	0.7099	-0.0232	0.71026	0.72556	511.691	12.395	0.29716	6865.0
43.2063	0.7100	-0.0174	0.71018	0.72958	512.491	12.411	0.29722	6866.1
42.9708	0.7100	-0.0116	0.71012	0.73362	513.069	12.424	0.29727	6866.8
42.7354	0.7101	-0.0058	0.71008	0.73767	513.423	12.431	0.29731	6867.4
42.5000	0.7101	0.0000	0.71007	0.74176	513.550	12.434	0.29731	6867.4

CBME SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.7379 ENTRPHY=42.7108
GAMMA (AVG.)=1.1503 STAG. ENTHALPHY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.7379	0.7103	-0.0551	0.71247	0.70341	576.371	12.775	0.28885	7186.8
44.5141	0.7105	-0.0496	0.71226	0.70726	578.706	12.820	0.28902	7189.4
44.2904	0.7107	-0.0441	0.71208	0.71110	580.789	12.860	0.28917	7191.8
44.0666	0.7109	-0.0386	0.71192	0.71491	582.627	12.895	0.28930	7193.9
43.8428	0.7110	-0.0331	0.71178	0.71873	584.221	12.926	0.28942	7195.9
43.6190	0.7111	-0.0276	0.71166	0.72254	585.575	12.951	0.28951	7197.6
43.3952	0.7112	-0.0221	0.71157	0.72635	586.689	12.973	0.28960	7198.8
43.1714	0.7113	-0.0166	0.71149	0.73017	587.562	12.990	0.28966	7199.6
42.9476	0.7113	-0.0111	0.71143	0.73402	588.193	13.002	0.28970	7200.3
42.7238	0.7114	-0.0055	0.71140	0.73788	588.579	13.009	0.28973	7201.0
42.5000	0.7114	0.0000	0.71139	0.74177	588.717	13.012	0.28974	7200.9

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=44.5188 ENTROPY=45.5175
GAMMA (AVG.)=1.1671 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

FLOW PROPERTIES

SHOCK ANGLE=44.4176 ENTROPY=48.4355
GAMMA (AVG.)=1.1872 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.5188	0.7130	-0.0499	0.71476	0.70712	784.083	14.049	0.27614	7944.5	44.4176	0.7143	-0.0475	0.71583	0.70884	1023.774	14.736	0.27137	8879.2
44.3169	0.7132	-0.0449	0.71460	0.71059	786.947	14.003	0.27628	7947.4	44.2259	0.7144	-0.0427	0.71568	0.71214	1027.323	14.779	0.27151	8882.9
44.1150	0.7133	-0.0399	0.71445	0.71405	789.504	14.132	0.27641	7950.0	44.0341	0.7145	-0.0380	0.71555	0.71543	1030.495	14.817	0.27163	8886.0
43.9131	0.7135	-0.0349	0.71432	0.71751	791.761	14.167	0.27653	7952.2	43.8423	0.7147	-0.0332	0.71543	0.71870	1033.293	14.851	0.27174	8888.8
43.7113	0.7136	-0.0300	0.71420	0.72095	793.719	14.198	0.27663	7953.9	43.6506	0.7148	-0.0285	0.71533	0.72198	1035.723	14.881	0.27184	8891.1
43.5094	0.7137	-0.0250	0.71411	0.72439	795.382	14.223	0.27671	7955.6	43.4588	0.7148	-0.0238	0.71524	0.72525	1037.785	14.906	0.27192	8893.3
43.3075	0.7137	-0.0200	0.71403	0.72784	796.750	14.244	0.27678	7957.0	43.2670	0.7149	-0.0190	0.71517	0.72853	1039.481	14.926	0.27198	8894.9
43.1056	0.7138	-0.0150	0.71397	0.73130	797.821	14.261	0.27683	7958.0	43.0753	0.7150	-0.0143	0.71511	0.73182	1040.810	14.943	0.27203	8896.2
42.9037	0.7139	-0.0100	0.71392	0.73477	798.595	14.273	0.27687	7958.6	42.8835	0.7150	-0.0095	0.71507	0.73512	1041.770	14.954	0.27207	8897.0
42.7019	0.7139	-0.0050	0.71389	0.73826	799.069	14.280	0.27689	7959.2	42.6917	0.7150	-0.0048	0.71505	0.73843	1042.357	14.961	0.27210	8897.6
42.5000	0.7139	0.0000	0.71388	0.74177	799.238	14.283	0.27690	7959.3	42.5000	0.7150	0.0000	0.71504	0.74176	1042.567	14.964	0.27210	8898.0

CBME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 2972.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=59.0491 ENTRPHY=28.2076
GAMMA (AVG.)=1.3865 STAG. ENTHALPHY=6.8723E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
59.0491	0.5142	-0.2496	0.57158	0.57862	7.569	3.435	1.03867	500.2
57.6442	0.5199	-0.2251	0.56658	0.59750	7.692	3.475	1.05758	502.5
56.2393	0.5251	-0.2007	0.56215	0.61645	7.801	3.510	1.07509	504.5
54.8344	0.5297	-0.1764	0.55825	0.63561	7.898	3.542	1.09121	506.2
53.4295	0.5336	-0.1520	0.55484	0.65511	7.982	3.569	1.10588	507.7
52.0245	0.5370	-0.1274	0.55190	0.67505	8.054	3.592	1.11898	509.0
50.6196	0.5398	-0.1026	0.54943	0.69555	8.115	3.612	1.13034	510.0
49.2147	0.5419	-0.0776	0.54743	0.71672	8.164	3.627	1.13975	510.9
47.8098	0.5434	-0.0522	0.54594	0.73866	8.201	3.639	1.14693	511.5
46.4049	0.5443	-0.0264	0.54497	0.76151	8.224	3.647	1.15157	511.9
45.0000	0.5446	0.0000	0.54459	0.78540	8.233	3.649	1.15331	512.1

CBME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=10000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=54.9697 ENTRPHY=28.8146
GAMMA (AVG.)=1.3658 STAG. ENTHALPHY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.9697	0.5739	-0.1966	0.60667	0.62942	12.413	4.165	0.77942	676.5
53.9727	0.5772	-0.1770	0.60370	0.64438	12.581	4.206	0.78596	678.9
52.9757	0.5800	-0.1576	0.60107	0.65928	12.730	4.243	0.79182	681.1
51.9788	0.5826	-0.1382	0.59875	0.67421	12.861	4.275	0.79704	683.0
50.9818	0.5848	-0.1189	0.59674	0.68923	12.976	4.302	0.80161	684.6
49.9848	0.5866	-0.0995	0.59502	0.70444	13.074	4.326	0.80556	686.0
48.9879	0.5882	-0.0800	0.59358	0.71988	13.156	4.346	0.80887	687.1
47.9909	0.5894	-0.0603	0.59244	0.73563	13.221	4.362	0.81153	688.0
46.9939	0.5902	-0.0405	0.59159	0.75175	13.269	4.374	0.81349	688.7
45.9969	0.5907	-0.0204	0.59105	0.76832	13.300	4.381	0.81472	689.1
45.0000	0.5908	0.0000	0.59084	0.78540	13.311	4.383	0.81518	689.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=53.1706 ENTRPHY=29.4630
GAMMA (AVG.)=1.3432 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
53.1706	0.5994	-0.1683	0.62256	0.65434	18.710	4.757	0.67412	892.8
52.5536	0.6016	-0.1515	0.62042	0.66713	18.931	4.799	0.67800	895.5
51.9365	0.6037	-0.1348	0.61852	0.67983	19.127	4.836	0.68146	897.9
50.7194	0.6054	-0.1181	0.61686	0.69252	19.301	4.868	0.68451	899.9
49.9024	0.6070	-0.1015	0.61541	0.70526	19.451	4.897	0.68718	901.7
49.0853	0.6083	-0.0849	0.61418	0.71809	19.580	4.921	0.68947	903.2
48.2682	0.6094	-0.0681	0.61316	0.73106	19.688	4.941	0.69137	904.5
47.4512	0.6102	-0.0513	0.61234	0.74423	19.773	4.957	0.69288	905.5
46.6341	0.6108	-0.0344	0.61174	0.75764	19.835	4.968	0.69399	906.2
45.8170	0.6111	-0.0173	0.61136	0.77135	19.874	4.976	0.69469	906.7
45.0000	0.6112	-0.0000	0.61122	0.78519	19.888	4.978	0.69494	906.8

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=52.1371 ENTRPHY=30.1073
GAMMA (AVG.)=1.3253 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.1371	0.6137	-0.1506	0.63195	0.66936	26.421	5.242	0.61403	1144.0
51.4233	0.6155	-0.1355	0.63025	0.68077	26.703	5.285	0.61680	1147.0
50.7096	0.6171	-0.1206	0.62874	0.69211	26.954	5.322	0.61926	1149.6
49.9959	0.6185	-0.1056	0.62743	0.70341	27.176	5.355	0.62143	1152.0
49.2822	0.6197	-0.0907	0.62629	0.71474	27.368	5.384	0.62332	1154.0
48.5685	0.6207	-0.0758	0.62531	0.72613	27.533	5.408	0.62494	1155.7
47.8548	0.6215	-0.0609	0.62450	0.73762	27.669	5.428	0.62627	1157.1
47.1411	0.6222	-0.0458	0.62386	0.74926	27.777	5.444	0.62733	1158.2
46.4274	0.6226	-0.0307	0.62339	0.76107	27.856	5.456	0.62811	1159.0
45.7137	0.6229	-0.0154	0.62309	0.77310	27.905	5.463	0.62860	1159.5
45.0000	0.6230	-0.0000	0.62298	0.78540	27.923	5.466	0.62877	1159.7

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=51.0022 ENTROPY=31.3273

GAMMA (AVG.)=1.3047 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.0022	0.6293	-0.1300	0.64256	0.68644	46.065	5.978	0.54840	1749.0
50.4019	0.6306	-0.1170	0.64131	0.69029	46.493	6.021	0.55023	1752.8
49.8017	0.6317	-0.1040	0.64021	0.70598	46.874	6.059	0.55185	1756.2
49.2016	0.6327	-0.0911	0.63924	0.71568	47.210	6.092	0.55328	1759.1
48.6013	0.6336	-0.0782	0.63839	0.72539	47.502	6.121	0.55453	1761.6
48.0011	0.6343	-0.0653	0.63768	0.73513	47.751	6.145	0.55558	1763.8
47.4008	0.6349	-0.0524	0.63708	0.74494	47.957	6.166	0.55646	1765.6
46.8006	0.6354	-0.0394	0.63661	0.75486	48.120	6.182	0.55715	1767.0
46.2004	0.6357	-0.0264	0.63627	0.76486	48.239	6.193	0.55765	1768.0
45.6002	0.6359	-0.0133	0.63605	0.77504	48.313	6.201	0.55797	1768.6
45.0000	0.6360	0.0000	0.63597	0.78540	48.339	6.203	0.55808	1768.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.2665 ENTROPY=32.4560

GAMMA (AVG.)=1.2115 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.2665	0.6392	-0.1162	0.64967	0.69757	71.291	6.621	0.48966	2444.0
49.7309	0.6402	-0.1045	0.64868	0.70635	71.888	6.664	0.49071	2448.4
49.2132	0.6411	-0.0929	0.64780	0.71506	72.418	6.702	0.49166	2452.3
48.6866	0.6419	-0.0813	0.64703	0.72372	72.885	6.736	0.49250	2455.8
48.1599	0.6426	-0.0698	0.64636	0.73236	73.290	6.765	0.49320	2458.7
47.6333	0.6432	-0.0583	0.64579	0.74102	73.635	6.790	0.49380	2461.3
47.1066	0.6436	-0.0467	0.64532	0.74972	73.919	6.811	0.49430	2463.2
46.5800	0.6440	-0.0351	0.64495	0.75849	74.144	6.827	0.49471	2464.9
46.0533	0.6443	-0.0235	0.64468	0.76734	74.307	6.839	0.49499	2466.1
45.5266	0.6444	-0.0118	0.64451	0.77630	74.408	6.846	0.49516	2466.7
45.0000	0.6444	0.0000	0.64445	0.78541	74.444	6.849	0.49521	2467.0

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FILM PROPERTIES

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
49.4405	0.6502	-0.0998	0.65785	0.71056	102.071	7.610	0.43264	2970.6
48.9964	0.6510	-0.0898	0.65712	0.71809	102.805	7.657	0.43339	2973.2
48.5524	0.6516	-0.0798	0.65647	0.72594	103.457	7.699	0.43403	2975.4
48.1083	0.6522	-0.0698	0.65591	0.73296	104.031	7.736	0.43460	2977.4
47.6643	0.6527	-0.0599	0.65542	0.74035	104.529	7.767	0.43511	2979.1
47.2202	0.6531	-0.0500	0.65500	0.74774	104.951	7.794	0.43552	2980.8
46.7762	0.6534	-0.0401	0.65466	0.75516	105.300	7.817	0.43585	2981.7
46.3321	0.6537	-0.0301	0.65439	0.76261	105.574	7.834	0.43614	2982.9
45.8881	0.6534	-0.0201	0.65419	0.77012	105.773	7.846	0.43633	2983.8
45.4440	0.6540	-0.0101	0.65407	0.77771	105.896	7.854	0.43644	2984.1
45.0000	0.6540	0.0000	0.65403	0.78540	105.940	7.857	0.43650	2984.1

SHOCK ANGLE=49.4405 ENTROPY=33.5503

GAMMA (AVG.)=1.1434 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTROPY=27.4504

FILM PROPERTIES

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
48.7511	0.6593	-0.0856	0.66485	0.72181	138.461	8.787	0.39650	3371.0
48.3760	0.6599	-0.0770	0.66433	0.72820	139.306	8.833	0.39705	3373.3
48.0009	0.6603	-0.0684	0.66386	0.73454	140.058	8.874	0.39754	3375.6
47.6258	0.6607	-0.0599	0.66344	0.74085	140.721	8.910	0.39796	3377.6
47.2507	0.6611	-0.0514	0.66309	0.74715	141.296	8.941	0.39833	3379.1
46.8756	0.6614	-0.0428	0.66278	0.75344	141.784	8.968	0.39866	3380.5
46.5004	0.6616	-0.0343	0.66253	0.75975	142.187	8.990	0.39890	3381.6
46.1253	0.6618	-0.0258	0.66234	0.76608	142.503	9.007	0.39911	3382.5
45.7502	0.6620	-0.0172	0.66220	0.77246	142.732	9.019	0.39926	3383.3
45.3751	0.6620	-0.0086	0.66211	0.77889	142.873	9.027	0.39935	3383.6
45.0000	0.6621	-0.0000	0.66207	0.78539	142.924	9.029	0.39937	3383.6

SHOCK ANGLE=48.7511 ENTROPY=34.6140

GAMMA (AVG.)=1.1484 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

CRNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.3129 ENTRPHY=35.6784
GAMMA (AVG.)=1.1835 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.1129	0.6651	-0.0762	0.66941	0.72910	180.475	9.797	0.37724	3785.7
47.9816	0.6655	-0.0686	0.66900	0.73475	181.449	9.842	0.37770	3788.4
47.8503	0.6658	-0.0610	0.66863	0.74036	182.317	9.881	0.37810	3790.9
47.7190	0.6662	-0.0534	0.66830	0.74595	183.082	9.917	0.37846	3792.6
46.5878	0.6665	-0.0458	0.66802	0.75153	183.747	9.947	0.37876	3794.6
46.4565	0.6667	-0.0382	0.66778	0.75711	184.311	9.973	0.37904	3796.1
46.3252	0.6669	-0.0306	0.66758	0.76270	184.776	9.994	0.37925	3797.4
45.1939	0.6670	-0.0230	0.66743	0.76831	185.142	10.011	0.37942	3798.4
45.0626	0.6671	-0.0153	0.66732	0.77396	185.406	10.023	0.37955	3799.2
44.9313	0.6672	-0.0077	0.66725	0.77966	185.569	10.031	0.37962	3799.3
45.0000	0.6672	0.0000	0.66722	0.78540	185.627	10.033	0.37965	3799.6

CRNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.1368 ENTRPHY=36.7680
GAMMA (AVG.)=1.2196 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.1368	0.6674	-0.0724	0.67127	0.73207	228.123	10.285	0.17232	4367.9
47.8231	0.6677	-0.0652	0.67089	0.73761	229.288	10.327	0.17277	4371.7
47.5095	0.6681	-0.0579	0.67056	0.74272	230.327	10.364	0.17316	4375.5
47.1958	0.6683	-0.0507	0.67027	0.74801	231.243	10.396	0.17351	4378.7
46.8821	0.6686	-0.0435	0.67002	0.75330	232.039	10.425	0.17381	4381.5
46.5684	0.6688	-0.0363	0.66980	0.75859	232.715	10.449	0.17405	4383.7
46.2547	0.6690	-0.0291	0.66962	0.76389	233.272	10.468	0.17425	4385.9
45.9410	0.6691	-0.0218	0.66948	0.76921	233.709	10.484	0.17443	4387.4
45.6273	0.6692	-0.0146	0.66938	0.77457	234.026	10.495	0.17453	4388.5
45.3137	0.6693	-0.0073	0.66932	0.77996	234.270	10.502	0.17461	4389.1
45.0000	0.6693	0.0000	0.66930	0.78540	234.290	10.505	0.17463	4389.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=48.1163 ENTROPY=37.8878
GAMMA (AVG.)=1.2055 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
46.1143	0.6676	-0.0719	0.67151	0.73242	281.387	10.349	0.38865	5133.3
47.8028	0.6680	-0.0647	0.67114	0.73772	282.816	10.393	0.38898	5137.0
47.4914	0.6683	-0.0575	0.67081	0.74300	284.091	10.433	0.36928	5140.0
47.1800	0.6686	-0.0504	0.67052	0.74826	285.216	10.467	0.36954	5142.7
46.8685	0.6689	-0.0432	0.67027	0.75352	286.193	10.497	0.36976	5145.2
46.5571	0.6691	-0.0360	0.67006	0.75877	287.022	10.523	0.36995	5147.2
46.2457	0.6693	-0.0289	0.66989	0.76404	287.706	10.544	0.37011	5148.8
45.9343	0.6694	-0.0217	0.66975	0.76932	288.243	10.561	0.37024	5150.0
45.6228	0.6695	-0.0145	0.66965	0.77464	288.631	10.573	0.37032	5151.0
45.3114	0.6695	-0.0073	0.66959	0.78000	288.870	10.580	0.37037	5151.7
45.0000	0.6696	0.0000	0.66956	0.78540	288.955	10.583	0.37040	5151.8

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.9630 ENTROPY=39.0024
GAMMA (AVG.)=1.1745 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
47.9630	0.6696	-0.0687	0.67312	0.73488	340.208	10.812	0.35435	5766.8
47.6667	0.6699	-0.0618	0.67279	0.73995	341.858	10.856	0.35465	5773.2
47.3704	0.6702	-0.0549	0.67249	0.74499	343.330	10.896	0.35491	5773.3
47.0741	0.6705	-0.0481	0.67222	0.75001	344.628	10.931	0.35516	5776.0
46.7778	0.6707	-0.0412	0.67200	0.75502	345.755	10.962	0.35535	5776.3
46.4815	0.6709	-0.0344	0.67180	0.76003	346.712	10.987	0.35552	5780.3
46.1852	0.6711	-0.0276	0.67164	0.76505	347.500	11.009	0.35567	5781.8
45.8889	0.6712	-0.0207	0.67152	0.77009	348.118	11.026	0.35578	5783.1
45.5926	0.6713	-0.0138	0.67143	0.77515	348.565	11.038	0.35586	5784.0
45.2963	0.6713	-0.0069	0.67137	0.78025	348.840	11.045	0.35591	5784.5
45.0000	0.6713	0.0000	0.67135	0.78540	348.938	11.048	0.35592	5784.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.8009 ENTROPY=40.1015
GAMMA (AVG.)=1.1591 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.8009	0.6717	-0.0652	0.67486	0.73757	404.626	11.367	0.34179	6280.7
47.5208	0.6720	-0.0586	0.67456	0.74237	406.486	11.412	0.34205	6284.0
47.2407	0.6723	-0.0521	0.67429	0.74714	408.145	11.453	0.34229	6286.7
46.9606	0.6725	-0.0456	0.67405	0.75190	409.608	11.488	0.34250	6289.1
46.6805	0.6727	-0.0391	0.67385	0.75665	410.877	11.518	0.34268	6291.4
46.4005	0.6729	-0.0326	0.67368	0.76139	411.955	11.545	0.34283	6293.1
46.1204	0.6730	-0.0261	0.67353	0.76615	412.842	11.566	0.34296	6294.5
45.8403	0.6731	-0.0196	0.67342	0.77092	413.539	11.583	0.34306	6295.8
45.5602	0.6732	-0.0131	0.67334	0.77571	414.042	11.595	0.34312	6296.6
45.2801	0.6733	-0.0066	0.67329	0.78054	414.351	11.603	0.34317	6297.0
45.0000	0.6733	0.0000	0.67327	0.78540	414.461	11.605	0.34319	6297.2

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.6447 ENTROPY=41.2069
GAMMA (AVG.)=1.1512 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.6447	0.6737	-0.0617	0.67695	0.74016	474.639	11.968	0.33063	6709.4
47.3803	0.6740	-0.0556	0.67628	0.74470	476.702	12.013	0.33087	6712.3
47.1158	0.6742	-0.0494	0.67604	0.74922	478.543	12.053	0.33108	6714.9
46.8513	0.6744	-0.0432	0.67582	0.75372	480.166	12.089	0.33127	6717.2
46.5868	0.6746	-0.0371	0.67564	0.75821	481.575	12.119	0.33143	6719.2
46.3224	0.6747	-0.0309	0.67549	0.76270	482.771	12.145	0.33157	6720.9
46.0579	0.6749	-0.0248	0.67536	0.76720	483.755	12.167	0.33168	6722.2
45.7934	0.6750	-0.0186	0.67526	0.77171	484.527	12.184	0.33176	6723.3
45.5289	0.6751	-0.0124	0.67518	0.77624	485.085	12.196	0.33183	6724.1
45.2644	0.6751	-0.0062	0.67514	0.78080	485.427	12.203	0.33187	6724.5
45.0000	0.6751	-0.0000	0.67512	0.78540	485.550	12.206	0.33188	6724.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.5037 ENTR0PY=42.3345
GAMMA (AVG.)=1.1496 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)
47.5037 0.6755 -0.0586 0.67808 0.74253 550.255 12.576 0.32118 7076.1
47.2533 0.6758 -0.0527 0.67784 0.74683 552.522 12.622 0.32139 7078.6
47.0030 0.6760 -0.0469 0.67762 0.75111 554.544 12.662 0.32158 7081.3
46.7526 0.6762 -0.0410 0.67743 0.75538 556.328 12.697 0.32175 7083.3
46.5022 0.6764 -0.0352 0.67726 0.75964 557.877 12.728 0.32189 7085.1
46.2514 0.6765 -0.0293 0.67712 0.76390 559.191 12.754 0.32202 7086.8
46.0015 0.6766 -0.0235 0.67701 0.76816 560.272 12.775 0.32212 7088.0
45.7511 0.6767 -0.0176 0.67692 0.77244 561.120 12.792 0.32220 7089.2
45.5007 0.6768 -0.0118 0.67685 0.77673 561.733 12.804 0.32225 7089.8
45.2504 0.6768 -0.0059 0.67681 0.78105 562.108 12.812 0.32229 7090.3
45.0000 0.6768 0.0000 0.67680 0.78540 562.243 12.814 0.32230 7090.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTR0PY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.3807 ENTR0PY=43.6856
GAMMA (AVG.)=1.1532 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)
47.3807 0.6771 -0.0559 0.67943 0.74460 631.474 13.167 0.31346 7403.1
47.1426 0.6773 -0.0503 0.67920 0.74869 633.949 13.212 0.31365 7405.7
46.9046 0.6775 -0.0447 0.67901 0.75277 636.158 13.251 0.31383 7408.1
46.6665 0.6777 -0.0391 0.67884 0.75683 638.106 13.287 0.31398 7410.1
46.4284 0.6779 -0.0335 0.67869 0.76088 639.797 13.317 0.31411 7411.9
46.1903 0.6780 -0.0280 0.67856 0.76494 641.233 13.343 0.31422 7413.5
45.9523 0.6781 -0.0224 0.67845 0.76900 642.414 13.365 0.31432 7414.8
45.7142 0.6782 -0.0168 0.67837 0.77307 643.339 13.381 0.31439 7415.9
45.4761 0.6782 -0.0112 0.67831 0.77715 644.008 13.393 0.31444 7416.5
45.2380 0.6783 -0.0056 0.67827 0.78126 644.418 13.401 0.31448 7416.9
45.0000 0.6783 0.0000 0.67826 0.78540 644.564 13.403 0.31448 7417.0

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34691.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.1662 ENTRPHY=46.4628
GAMMA (AVG.)=1.1746 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	IKI
47.1662	0.6799	-0.0511	0.68179	0.74822	859.046	14.358	0.30143	8213.0	
46.9446	0.6801	-0.0460	0.68160	0.75195	862.109	14.403	0.30160	8215.9	
46.7110	0.6802	-0.0408	0.68144	0.75566	864.846	14.442	0.30175	8218.5	
46.5104	0.6804	-0.0358	0.68130	0.75936	867.261	14.477	0.30189	8220.8	
46.2997	0.6805	-0.0307	0.68117	0.76306	869.357	14.507	0.30201	8222.8	
46.0811	0.6806	-0.0256	0.68107	0.76676	871.136	14.532	0.30210	8224.5	
45.8665	0.6807	-0.0205	0.68098	0.77046	872.600	14.553	0.30219	8225.9	
45.6548	0.6807	-0.0154	0.68091	0.77417	873.747	14.569	0.30225	8227.1	
45.4432	0.6808	-0.0103	0.68086	0.77789	874.575	14.581	0.30230	8227.9	
45.2166	0.6808	-0.0051	0.68083	0.78163	875.082	14.588	0.30232	8228.4	
45.0000	0.6808	0.0000	0.68082	0.78540	875.263	14.591	0.30233	8228.6	

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=47.1016 ENTRPHY=49.5445
GAMMA (AVG.)=1.1900 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	(K)
47.1016	0.6807	-0.0496	0.68251	0.74932	1121.679	14.766	0.29871	9351.2	
46.8914	0.6809	-0.0446	0.68233	0.75294	1125.559	14.809	0.29890	9355.1	
46.6812	0.6810	-0.0397	0.68218	0.75654	1129.026	14.847	0.29906	9358.9	
46.4711	0.6812	-0.0347	0.68204	0.76013	1132.085	14.881	0.29920	9362.0	
46.2609	0.6813	-0.0298	0.68193	0.76372	1134.741	14.910	0.29933	9364.7	
46.0508	0.6814	-0.0248	0.68183	0.76730	1136.996	14.935	0.29943	9366.9	
45.8406	0.6815	-0.0199	0.68174	0.77090	1138.850	14.955	0.29952	9368.9	
45.6304	0.6815	-0.0149	0.68168	0.77450	1140.303	14.971	0.29959	9370.3	
45.4203	0.6816	-0.0100	0.68163	0.77811	1141.352	14.983	0.29964	9371.4	
45.2101	0.6816	-0.0050	0.68160	0.78174	1141.994	14.990	0.29967	9372.1	
45.0000	0.6816	-0.0000	0.68159	0.78540	1142.224	14.992	0.29968	9372.4	

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRPHY=27.4504

FL. PROPERTIES

SHOCK ANGLE=56.4901 ENTRPHY=29.6110
GAMMA (AVG.)=1.3386 STAG. ENTHALPY=1.4727E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
56.4901	0.5520	-0.1710	0.57791	0.68556	20.342	4.876	0.76337	947.0
55.5911	0.5546	-0.1540	0.57553	0.69944	20.576	4.918	0.76862	949.8
54.6921	0.5568	-0.1370	0.57342	0.71327	20.783	4.955	0.77333	952.2
53.7931	0.5588	-0.1201	0.57157	0.72712	20.967	4.987	0.77750	954.3
52.8941	0.5605	-0.1032	0.56996	0.74104	21.126	5.016	0.78116	956.1
51.9950	0.5620	-0.0863	0.56858	0.75509	21.263	5.040	0.78431	957.7
51.0960	0.5632	-0.0693	0.56744	0.76932	21.376	5.060	0.78693	959.0
50.1970	0.5641	-0.0522	0.56652	0.78377	21.466	5.076	0.78902	960.0
49.2980	0.5648	-0.0350	0.56585	0.79851	21.533	5.087	0.79056	960.7
48.3990	0.5652	-0.0176	0.56543	0.81357	21.574	5.095	0.79152	961.2
47.5000	0.5653	-0.0000	0.56527	0.82903	21.589	5.097	0.79188	961.4

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE=58.5529 ENTRPHY=28.9367
GAMMA (AVG.)=1.3614 STAG. ENTHALPY=1.0309E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.5529	0.5216	-0.1990	0.55829	0.65755	13.500	4.287	0.90076	714.8
57.4476	0.5252	-0.1792	0.55499	0.67379	13.677	4.328	0.91034	717.3
56.3423	0.5285	-0.1596	0.55206	0.69002	13.834	4.365	0.91902	719.4
55.2370	0.5313	-0.1401	0.54948	0.70633	13.972	4.397	0.92679	721.3
54.1317	0.5338	-0.1205	0.54723	0.72281	14.093	4.425	0.93368	723.0
53.0264	0.5359	-0.1008	0.54530	0.73953	14.196	4.449	0.93967	724.4
51.9211	0.5376	-0.0811	0.54370	0.75654	14.283	4.468	0.94471	725.5
50.8159	0.5390	-0.0611	0.54241	0.77393	14.352	4.484	0.94878	726.5
49.7106	0.5399	-0.0410	0.54146	0.79176	14.402	4.496	0.95180	727.2
48.6053	0.5405	-0.0207	0.54085	0.81010	14.434	4.503	0.95371	727.6
47.5000	0.5406	0.0000	0.54062	0.82903	14.446	4.506	0.95441	727.7

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4904

FLOW PROPERTIES

SHOCK ANGLE=55.3337 ENTRPHY=30.2771
 GAMMA (AVG.)=1.3215 STAG. ENTHALPY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	IKI
54.0868	0.5865	-0.1332	0.60147	0.72075	50.109	6.082	0.61311	1870.2	
53.4281	0.5880	-0.1198	0.60007	0.73143	50.566	6.124	0.61547	1874.1	
52.7694	0.5893	-0.1066	0.59883	0.74204	50.972	6.162	0.61757	1877.6	
52.1107	0.5904	-0.0934	0.59774	0.75264	51.331	6.195	0.61942	1880.7	
51.4521	0.5914	-0.0802	0.59679	0.76325	51.643	6.224	0.62103	1883.3	
50.7934	0.5922	-0.0670	0.59599	0.77392	51.908	6.249	0.62241	1885.6	
50.1347	0.5929	-0.0537	0.59532	0.78466	52.128	6.269	0.62354	1887.4	
49.4760	0.5934	-0.0404	0.59479	0.79551	52.302	6.285	0.62444	1888.9	
48.8173	0.5938	-0.0271	0.59441	0.80650	52.429	6.297	0.62510	1889.9	
48.1586	0.5940	-0.0136	0.59416	0.81766	52.508	6.304	0.62551	1890.6	
47.5000	0.5941	0.0000	0.59407	0.82903	52.536	6.307	0.62566	1890.8	

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
 DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
 VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4904

FLOW PROPERTIES

SHOCK ANGLE=54.0868 ENTRPHY=31.5306
 GAMMA (AVG.)=1.3024 STAG. ENTHALPY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	(K)
54.0868	0.5865	-0.1332	0.60147	0.72075	50.109	6.082	0.61311	1870.2	
53.4281	0.5880	-0.1198	0.60007	0.73143	50.566	6.124	0.61547	1874.1	
52.7694	0.5893	-0.1066	0.59883	0.74204	50.972	6.162	0.61757	1877.6	
52.1107	0.5904	-0.0934	0.59774	0.75264	51.331	6.195	0.61942	1880.7	
51.4521	0.5914	-0.0802	0.59679	0.76325	51.643	6.224	0.62103	1883.3	
50.7934	0.5922	-0.0670	0.59599	0.77392	51.908	6.249	0.62241	1885.6	
50.1347	0.5929	-0.0537	0.59532	0.78466	52.128	6.269	0.62354	1887.4	
49.4760	0.5934	-0.0404	0.59479	0.79551	52.302	6.285	0.62444	1888.9	
48.8173	0.5938	-0.0271	0.59441	0.80650	52.429	6.297	0.62510	1889.9	
48.1586	0.5940	-0.0136	0.59416	0.81766	52.508	6.304	0.62551	1890.6	
47.5000	0.5941	0.0000	0.59407	0.82903	52.536	6.307	0.62566	1890.8	

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=53.2428 ENTROPY=32.7044
GAMMA (AVG.)=1.1777 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.2428	0.5984	-0.1188	0.61009	0.73332	77.541	6.745	0.53516	2606.3
52.6485	0.5995	-0.1068	0.60898	0.74288	78.178	6.757	0.53651	2609.8
52.0942	0.6005	-0.0950	0.60800	0.75236	78.745	6.831	0.53770	2613.2
51.5200	0.6014	-0.0832	0.60713	0.76180	79.243	6.867	0.53875	2615.7
50.9457	0.6022	-0.0714	0.60639	0.77122	79.676	6.898	0.53964	2618.1
50.3714	0.6028	-0.0596	0.60575	0.78066	80.043	6.924	0.54041	2620.1
49.7971	0.6033	-0.0478	0.60523	0.79014	80.347	6.946	0.54101	2621.8
49.2228	0.6038	-0.0359	0.60482	0.79970	80.586	6.963	0.54153	2623.1
48.6485	0.6040	-0.0240	0.60452	0.80935	80.760	6.976	0.54191	2624.0
48.0743	0.6042	-0.0120	0.60433	0.81912	80.868	6.983	0.54212	2624.6
47.5000	0.6043	0.0000	0.60426	0.82905	80.907	6.986	0.54222	2624.7

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=52.2052 ENTROPY=33.8278
GAMMA (AVG.)=1.1410 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.2050	0.6128	-0.0998	0.62090	0.74975	110.989	7.919	0.47077	3078.2
51.7345	0.6136	-0.0897	0.62013	0.75770	111.751	7.966	0.47165	3080.9
51.2640	0.6143	-0.0798	0.61945	0.76559	112.429	8.007	0.47245	3083.1
50.7935	0.6149	-0.0698	0.61885	0.77344	113.025	8.044	0.47313	3085.1
50.3230	0.6154	-0.0599	0.61833	0.78127	113.542	8.075	0.47372	3087.0
49.8525	0.6159	-0.0500	0.61789	0.78911	113.982	8.102	0.47421	3088.4
49.3820	0.6162	-0.0401	0.61752	0.79696	114.344	8.125	0.47464	3089.4
48.9115	0.6165	-0.0301	0.61724	0.80487	114.629	8.142	0.47495	3090.4
48.4410	0.6167	-0.0201	0.61703	0.81283	114.836	8.154	0.47521	3091.2
47.9705	0.6168	-0.0101	0.61690	0.82088	114.964	8.162	0.47536	3091.6
47.5000	0.6168	-0.0000	0.61685	0.82903	115.010	8.165	0.47540	3091.8

CP# 50 MI-41-11-47.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 408.58 DEG. R
VELOCITY= 15834.2 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHECK ANGLE=51.0544 ENTRPHY=34.0484

GAMMA (AVG.)=1.1989 STAG. ENTHALPY=1.2813E 08 FT. 50.75EC. 30.

	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
C	51.0544	0.6280	-0.0773	0.63332	0.76867	196.237	10.058	0.41509	3951.9
C	50.6990	0.6290	-0.0696	0.63286	0.77471	197.264	10.103	0.41564	3954.5
C	50.3436	0.6294	-0.0618	0.63246	0.78072	198.180	10.142	0.41613	3957.2
C	49.9881	0.6298	-0.0541	0.63211	0.78670	198.989	10.177	0.41657	3959.4
C	49.6327	0.6301	-0.0464	0.63180	0.79268	199.690	10.207	0.41696	3961.2
C	49.2772	0.6304	-0.0387	0.63154	0.79867	200.287	10.232	0.41728	3963.0
C	48.9218	0.6306	-0.0310	0.63133	0.80467	200.778	10.253	0.41759	3964.2
C	48.5663	0.6307	-0.0233	0.63116	0.81069	201.164	10.269	0.41775	3965.5
C	48.2109	0.6308	-0.0156	0.63104	0.81675	201.443	10.281	0.41790	3966.2
C	47.8554	0.6309	-0.0078	0.63096	0.82286	201.615	10.289	0.41801	3966.3
C	47.5000	0.6309	-0.0000	0.63093	0.82903	201.676	10.292	0.41801	3966.4

CBNE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=14.80 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. R
VELOCITY= 19472.4 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHECK ANGLE=51.4796 ENTRPHY=34.9344

GAMMA (AVG.)=1.1546 STAG. ENTHALPY=9.6670E 07 FT. 50./SEC. 50.

	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
C	51.4796	0.6228	-0.0858	0.62967	0.76160	190.250	9.120	0.43270	3498.4
C	51.0816	0.6233	-0.0772	0.62811	0.76836	191.431	9.147	0.43308	3492.6
C	50.6837	0.6238	-0.0686	0.62761	0.77508	192.215	9.207	0.43416	3495.0
C	50.2857	0.6243	-0.0600	0.62717	0.78176	192.906	9.242	0.43466	3497.1
C	49.8878	0.6247	-0.0515	0.62679	0.78844	193.506	9.273	0.43511	3498.3
C	49.4898	0.6250	-0.0430	0.62647	0.79511	194.016	9.299	0.43547	3499.1
C	49.0918	0.6253	-0.0344	0.62620	0.80181	194.436	9.321	0.43578	3501.1
C	48.6939	0.6255	-0.0259	0.62599	0.80853	194.766	9.338	0.43605	3502.1
C	48.2959	0.6256	-0.0173	0.62584	0.81530	195.005	9.350	0.43622	3502.9
C	47.8980	0.6257	-0.0087	0.62575	0.82213	195.192	9.358	0.43634	3503.1
C	47.5000	0.6257	-0.0000	0.62571	0.82903	195.205	9.360	0.43635	3503.5

CBME SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.9976 ENTRPHY=37.2060
GAMMA (AVG.)=1.2209 STAG. ENTHALPY=1.6151E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.9976	0.6293	-0.0762	0.63394	0.76964	248.088	10.203	0.41538	4708.4
50.6478	0.6298	-0.0685	0.63350	0.77558	249.365	10.245	0.41591	4712.9
50.2981	0.6302	-0.0609	0.63312	0.78149	250.505	10.282	0.41638	4716.6
49.9483	0.6305	-0.0533	0.63277	0.78738	251.511	10.315	0.41681	4720.0
49.5986	0.6308	-0.0458	0.63248	0.79326	252.384	10.344	0.41717	4722.7
49.2488	0.6311	-0.0382	0.63222	0.79915	253.126	10.368	0.41749	4725.2
48.8990	0.6313	-0.0306	0.63202	0.80505	253.738	10.388	0.41774	4727.3
48.5493	0.6314	-0.0230	0.63185	0.81098	254.218	10.404	0.41794	4728.7
48.1995	0.6315	-0.0153	0.63173	0.81695	254.566	10.415	0.41808	4729.9
47.8498	0.6316	-0.0077	0.63166	0.82296	254.779	10.422	0.41818	4730.5
47.5000	0.6316	-0.0000	0.63163	0.82903	254.856	10.425	0.41821	4730.8

CBME SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 229.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.8689 ENTRPHY=38.3646
GAMMA (AVG.)=1.1886 STAG. ENTHALPY=1.9883E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.8689	0.6311	-0.0736	0.63537	0.77172	309.986	10.538	0.40145	5410.8
50.5320	0.6315	-0.0662	0.63496	0.77746	307.511	10.583	0.40186	5414.5
50.1951	0.6319	-0.0589	0.63460	0.78317	308.871	10.623	0.40222	5417.8
49.8582	0.6322	-0.0515	0.63428	0.78886	310.071	10.658	0.40254	5420.8
49.5213	0.6325	-0.0442	0.63400	0.79454	311.112	10.688	0.40281	5423.2
49.1844	0.6327	-0.0369	0.63377	0.80022	311.997	10.714	0.40304	5425.3
48.8475	0.6329	-0.0295	0.63358	0.80592	312.726	10.735	0.40324	5427.0
48.5106	0.6330	-0.0222	0.63342	0.81164	313.298	10.752	0.40339	5428.5
48.1738	0.6331	-0.0148	0.63331	0.81739	313.713	10.764	0.40350	5429.4
47.8369	0.6332	-0.0074	0.63324	0.82319	313.967	10.771	0.40357	5430.0
47.5000	0.6332	0.0000	0.63322	0.82903	314.058	10.774	0.40359	5430.2

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.6906 ENTROPY=39.5377
GAMMA (AVG.)=1.1660 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.6906	0.6335	-0.0700	0.63736	0.77464	369.948	11.050	0.38611	6027.7
50.3715	0.6339	-0.0630	0.63699	0.78009	371.700	11.096	0.38647	6030.8
50.0525	0.6342	-0.0560	0.63667	0.78551	373.264	11.136	0.38678	6033.6
49.7334	0.6345	-0.0490	0.63638	0.79092	374.642	11.171	0.38706	6036.4
49.4143	0.6347	-0.0420	0.63613	0.79631	375.839	11.202	0.38730	6038.5
49.0953	0.6349	-0.0351	0.63592	0.80171	376.855	11.227	0.38751	6040.5
48.7762	0.6351	-0.0281	0.63574	0.80712	377.692	11.249	0.38767	6042.0
48.4572	0.6353	-0.0211	0.63560	0.81254	378.348	11.265	0.38781	6043.2
48.1381	0.6353	-0.0141	0.63550	0.81800	378.824	11.278	0.38790	6044.1
47.8190	0.6354	-0.0071	0.63544	0.82349	379.115	11.285	0.38796	6044.7
47.5000	0.6354	0.0000	0.63542	0.82903	379.219	11.288	0.38798	6044.7

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.4983 ENTROPY=40.6682
GAMMA (AVG.)=1.1541 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.4983	0.6361	-0.0661	0.63952	0.77783	439.985	11.674	0.37166	6510.6
50.1985	0.6364	-0.0595	0.63920	0.78296	441.949	11.719	0.37198	6513.6
49.8986	0.6367	-0.0529	0.63890	0.78807	443.701	11.759	0.37226	6516.4
49.5988	0.6370	-0.0463	0.63865	0.79316	445.247	11.795	0.37251	6518.7
49.2990	0.6372	-0.0397	0.63843	0.79824	446.588	11.825	0.37272	6520.7
48.9991	0.6374	-0.0331	0.63824	0.80333	447.727	11.851	0.37290	6522.5
48.6993	0.6375	-0.0265	0.63808	0.80842	448.664	11.873	0.37305	6523.9
48.3995	0.6376	-0.0199	0.63796	0.81353	449.399	11.889	0.37316	6525.0
48.0996	0.6377	-0.0133	0.63787	0.81866	449.931	11.902	0.37324	6525.7
47.7998	0.6378	-0.0067	0.63782	0.82383	450.257	11.909	0.37330	6526.3
47.5000	0.6378	0.0000	0.63780	0.82903	450.374	11.912	0.37332	6526.3

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTRØPY=27.4504

FLW PRØPERTIES

SHØCK ANGLE=50.1736 ENTRØPY=43.0225
GAMMA (AVG.)=1.1512 STAG. ENTHALPY=3.8734E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	TH	A	P	RHB	MU	T (K)
50.1736	0.6405	-0.0594	0.64321	0.78326	598.323	12.935	0.34951	7275.7	
49.9062	0.6407	-0.0534	0.64295	0.78785	600.713	12.980	0.34976	7278.3	
49.6389	0.6410	-0.0475	0.64271	0.79242	602.846	13.019	0.34998	7280.8	
49.3715	0.6412	-0.0416	0.64251	0.79697	604.727	13.055	0.35018	7282.8	
49.1041	0.6413	-0.0356	0.64233	0.80152	606.360	13.086	0.35035	7284.5	
48.8368	0.6415	-0.0297	0.64218	0.80607	607.747	13.111	0.35049	7286.2	
48.5694	0.6416	-0.0238	0.64205	0.81062	608.887	13.133	0.35061	7287.4	
48.3021	0.6417	-0.0179	0.64195	0.81519	609.781	13.150	0.35070	7288.4	
48.0347	0.6418	-0.0119	0.64188	0.81977	610.428	13.162	0.35077	7289.1	
47.7673	0.6418	-0.0060	0.64184	0.82439	610.823	13.169	0.35081	7289.6	
47.5000	0.6418	0.0000	0.64182	0.82903	610.965	13.172	0.35083	7289.7	

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27763.1 FT./SEC. ENTRØPY=27.4504

FLW PRØPERTIES

SHØCK ANGLE=50.3256 ENTRØPY=41.8328
GAMMA (AVG.)=1.1496 STAG. ENTHALPY=3.3432E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.3256	0.6384	-0.0625	0.64148	0.78071	516.109	12.308	0.35951	6920.0
50.0430	0.6387	-0.0563	0.64119	0.78555	518.285	12.353	0.35979	6922.8
49.7605	0.6390	-0.0500	0.64093	0.79038	520.226	12.393	0.36004	6925.4
49.4779	0.6392	-0.0438	0.64070	0.79518	521.939	12.428	0.36026	6927.7
49.1953	0.6394	-0.0375	0.64050	0.79998	523.425	12.459	0.36045	6929.5
48.9128	0.6396	-0.0313	0.64033	0.80478	524.686	12.485	0.36061	6931.1
48.6302	0.6397	-0.0251	0.64019	0.80959	525.725	12.507	0.36074	6932.5
48.3477	0.6398	-0.0188	0.64008	0.81441	526.539	12.523	0.36084	6933.5
48.0651	0.6399	-0.0126	0.64000	0.81925	527.127	12.536	0.36092	6934.1
47.7825	0.6399	-0.0063	0.63995	0.82412	527.488	12.543	0.36096	6934.7
47.5000	0.6399	0.0000	0.63993	0.82903	527.617	12.546	0.36098	6934.8

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE =50.0455 ENTRPHY=44.2381
GAMMA (AVG.)=1.1576 STAG. ENTHALPHY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.0455	0.6422	-0.0567	0.64468	0.78541	686.631	13.522	0.34162	7603.8
49.7909	0.6424	-0.0510	0.64444	0.78979	689.244	13.567	0.34185	7606.4
49.5364	0.6426	-0.0453	0.64422	0.79414	691.577	13.606	0.34206	7608.9
49.2818	0.6428	-0.0400	0.64404	0.79848	693.636	13.642	0.34224	7610.9
49.0273	0.6430	-0.0340	0.64387	0.80282	695.422	13.672	0.34240	7612.7
48.7727	0.6431	-0.0284	0.64374	0.80715	696.939	13.698	0.34253	7614.4
48.5182	0.6432	-0.0227	0.64362	0.81149	698.187	13.719	0.34263	7615.6
48.2636	0.6433	-0.0171	0.64353	0.81584	699.164	13.735	0.34272	7616.8
48.0091	0.6434	-0.0114	0.64347	0.82021	699.871	13.748	0.34279	7617.3
47.7545	0.6434	-0.0057	0.64343	0.82461	700.304	13.755	0.34282	7617.7
47.5000	0.6434	0.0000	0.64341	0.82903	700.458	13.758	0.34284	7617.9

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE =49.8434 ENTRPHY=47.3787
GAMMA (AVG.)=1.1814 STAG. ENTHALPHY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.8434	0.6449	-0.0524	0.64700	0.78883	934.083	14.582	0.33064	8499.8
49.6090	0.6451	-0.0472	0.64680	0.79286	937.358	14.626	0.33085	8502.9
49.3747	0.6453	-0.0419	0.64662	0.79687	940.285	14.665	0.33103	8505.8
49.1404	0.6454	-0.0367	0.64646	0.80087	942.867	14.699	0.33119	8508.3
48.9060	0.6456	-0.0315	0.64632	0.80487	945.109	14.729	0.33134	8510.3
48.6717	0.6457	-0.0262	0.64620	0.80887	947.012	14.755	0.33145	8512.2
48.4373	0.6458	-0.0210	0.64611	0.81287	948.577	14.775	0.33155	8513.9
48.2030	0.6458	-0.0158	0.64603	0.81688	949.803	14.791	0.33163	8515.0
47.9687	0.6459	-0.0105	0.64598	0.82091	950.689	14.803	0.33168	8515.8
47.7343	0.6459	-0.0053	0.64594	0.82496	951.231	14.810	0.33172	8516.5
47.5000	0.6459	0.0000	0.64593	0.82903	951.425	14.813	0.33173	8516.8

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF

DENSITY=3.3100E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K

VELOCITY= 39635.5 FT./SEC.

ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=49.8390

ENTROPY=50.6140

GAMMA (AVG.)=1.2386 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.8390	0.6449	-0.0523	0.64705	0.78894	1219.755	14.613	0.33838	9930.6
49.6051	0.6451	-0.0471	0.64685	0.79295	1224.013	14.655	0.33663	9935.7
49.3712	0.6453	-0.0418	0.64667	0.79694	1227.819	14.692	0.33886	9940.4
49.1373	0.6455	-0.0365	0.64651	0.80093	1231.180	14.724	0.33906	9944.5
48.9034	0.6456	-0.0314	0.64637	0.80492	1234.098	14.753	0.33923	9948.1
48.6695	0.6457	-0.0262	0.64626	0.80890	1236.577	14.776	0.33938	9951.1
48.4356	0.6458	-0.0210	0.64616	0.81290	1238.616	14.796	0.33950	9953.8
48.2017	0.6459	-0.0157	0.64609	0.81690	1240.214	14.812	0.33959	9955.5
47.9678	0.6459	-0.0105	0.64603	0.82092	1241.369	14.823	0.33966	9957.0
47.7339	0.6460	-0.0053	0.64600	0.82494	1242.075	14.830	0.33971	9957.9
47.5000	0.6460	-0.0000	0.64594	0.82903	1242.328	14.832	0.33972	9958.0

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 3963.5 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=62.6139 ENTRØPY=29.0611

GAMMA (AVG.)=1.3569 STAG. ENTHALPY=1.0309E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
62.6139	0.4599	-0.2015	0.50211	0.67968	14.652	4.406	1.10647	754.9
63.3525	0.4641	-0.1816	0.49835	0.69775	14.837	4.447	1.12489	757.4
64.0911	0.4678	-0.1618	0.49502	0.71573	15.002	4.483	1.14208	759.6
64.8297	0.4711	-0.1421	0.49207	0.73390	15.147	4.515	1.15798	761.5
65.5683	0.4740	-0.1223	0.48949	0.75233	15.275	4.543	1.17248	763.2
66.3069	0.4764	-0.1024	0.48728	0.77111	15.384	4.567	1.18545	764.6
67.0455	0.4784	-0.0823	0.48543	0.79030	15.475	4.587	1.19667	765.8
67.7841	0.4799	-0.0621	0.48395	0.80998	15.547	4.603	1.20592	766.7
68.5227	0.4810	-0.0417	0.48285	0.83021	15.601	4.614	1.21293	767.4
69.2613	0.4817	-0.0210	0.48215	0.85108	15.635	4.622	1.21743	767.9
70.0000	0.4819	0.0000	0.48188	0.87267	15.647	4.625	1.21910	768.0

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 4954.4 FT./SEC. ENTRØPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=60.0697 ENTRØPY=29.7558

GAMMA (AVG.)=1.3344 STAG. ENTHALPY=1.4727E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
60.0697	0.4989	-0.1737	0.52828	0.71329	22.016	4.987	0.88943	1002.0
59.0628	0.5018	-0.1565	0.52560	0.72852	22.262	5.029	0.89736	1004.8
58.0558	0.5043	-0.1393	0.52322	0.74376	22.482	5.066	0.90451	1007.3
57.0488	0.5066	-0.1222	0.52113	0.75905	22.675	5.099	0.91091	1009.4
56.0418	0.5086	-0.1050	0.51930	0.77448	22.843	5.127	0.91656	1011.3
55.0349	0.5102	-0.0878	0.51774	0.79008	22.988	5.151	0.92144	1012.9
54.0279	0.5116	-0.0706	0.51644	0.80592	23.107	5.172	0.92553	1014.2
53.0209	0.5127	-0.0532	0.51540	0.82204	23.203	5.188	0.92881	1015.3
52.0139	0.5134	-0.0356	0.51464	0.83849	23.273	5.199	0.93123	1016.0
51.0070	0.5138	-0.0179	0.51416	0.85534	23.317	5.207	0.93276	1016.5
50.0000	0.5140	-0.0000	0.51397	0.87265	23.333	5.209	0.93331	1016.7

CBNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 5945.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=50.7187 ENTRPHY=30.4406
GAMMA AVG.=1.3182 STAG. ENTHALPHY=2.0127E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.7187	0.5192	-0.1564	0.54224	0.73229	31.076	5.465	0.79136	1290.8
57.8469	0.5214	-0.1408	0.54012	0.74589	31.392	5.507	0.79652	1294.0
56.9750	0.5234	-0.1253	0.53823	0.75946	31.674	5.544	0.80116	1296.8
56.1031	0.5252	-0.1098	0.53657	0.77306	31.922	5.577	0.80527	1299.2
55.2312	0.5267	-0.0944	0.53512	0.78672	32.138	5.606	0.80888	1301.3
54.3593	0.5280	-0.0789	0.53369	0.80050	32.323	5.630	0.81197	1303.1
53.4875	0.5291	-0.0633	0.53286	0.81444	32.476	5.651	0.81456	1304.6
52.6156	0.5299	-0.0477	0.53205	0.82858	32.598	5.667	0.81661	1305.8
51.7437	0.5305	-0.0319	0.53145	0.84297	32.687	5.678	0.81812	1306.6
50.8718	0.5308	-0.0161	0.53108	0.85765	32.742	5.686	0.81906	1307.2
50.0000	0.5309	-0.0000	0.53093	0.87266	32.762	5.688	0.81940	1307.4

CBNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 7927.1 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=57.3058 ENTRPHY=31.7236
GAMMA AVG.=1.3006 STAG. ENTHALPHY=3.3873E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
57.3058	0.5401	-0.1363	0.55706	0.75306	54.183	6.176	0.69536	1991.5
56.5752	0.5418	-0.1227	0.55548	0.76478	54.667	6.218	0.69856	1995.6
55.8446	0.5432	-0.1091	0.55408	0.77646	55.099	6.256	0.70142	1999.2
55.1141	0.5445	-0.0956	0.55284	0.78814	55.480	6.289	0.70395	2002.4
54.3835	0.5456	-0.0821	0.55177	0.79984	55.811	6.318	0.70616	2005.1
53.6529	0.5466	-0.0686	0.55086	0.81162	56.094	6.343	0.70805	2007.5
52.9223	0.5473	-0.0550	0.55010	0.82349	56.328	6.363	0.70961	2009.4
52.1917	0.5479	-0.0414	0.54951	0.83550	56.513	6.379	0.71085	2010.9
51.4611	0.5484	-0.0277	0.54907	0.84768	56.648	6.391	0.71176	2012.1
50.7306	0.5486	-0.0139	0.54879	0.86005	56.732	6.398	0.71233	2012.7
50.0000	0.5487	-0.0000	0.54869	0.87266	56.762	6.401	0.71253	2013.0

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 9908.9 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=56.2121 ENTROPY=32.9347
GAMMA (AVG.)=1.1618 STAG. ENTHALPY=5.1547E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
56.2121	0.5561	-0.1196	0.56882	0.76924	83.785	6.949	0.58987	2721.0
55.5909	0.5573	-0.1076	0.56762	0.77954	84.451	6.996	0.59157	2723.8
54.9697	0.5584	-0.0956	0.56655	0.78976	85.043	7.037	0.59306	2726.3
54.3485	0.5594	-0.0837	0.56561	0.79995	85.564	7.074	0.59440	2728.5
53.7273	0.5602	-0.0719	0.56480	0.81012	86.016	7.105	0.59554	2730.7
53.1060	0.5609	-0.0600	0.56411	0.82032	86.401	7.132	0.59651	2732.2
52.4848	0.5615	-0.0481	0.56354	0.83058	86.718	7.155	0.59732	2733.5
51.8636	0.5619	-0.0362	0.56309	0.84091	86.968	7.172	0.59799	2734.5
51.2424	0.5622	-0.0242	0.56276	0.85135	87.150	7.185	0.59846	2735.2
50.6212	0.5624	-0.0121	0.56255	0.86192	87.263	7.193	0.59870	2735.8
50.0000	0.5625	-0.0000	0.56267	0.87266	87.303	7.196	0.59883	2735.9

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 11890.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=55.0232 ENTROPY=34.0924
GAMMA (AVG.)=1.1411 STAG. ENTHALPY=7.3148E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.0232	0.5732	-0.0997	0.58185	0.78808	119.877	8.216	0.51653	3178.1
54.5209	0.5741	-0.0897	0.58103	0.79654	120.666	8.262	0.51763	3180.6
54.0186	0.5748	-0.0797	0.58030	0.80494	121.368	8.303	0.51862	3183.0
53.5162	0.5754	-0.0698	0.57966	0.81331	121.986	8.339	0.51946	3184.8
53.0139	0.5760	-0.0599	0.57910	0.82166	122.522	8.371	0.52020	3186.5
52.5116	0.5765	-0.0500	0.57863	0.83002	122.978	8.397	0.52083	3187.9
52.0093	0.5769	-0.0401	0.57825	0.83841	123.353	8.420	0.52131	3189.0
51.5069	0.5772	-0.0301	0.57794	0.84685	123.649	8.437	0.52175	3190.0
51.0046	0.5774	-0.0201	0.57772	0.85536	123.863	8.449	0.52204	3190.8
50.5023	0.5775	-0.0101	0.57758	0.86395	123.995	8.458	0.52219	3190.9
50.0000	0.5775	-0.0000	0.57753	0.87265	124.043	8.461	0.52228	3191.0

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 13872.4 FT./SEC. ENTRPHY=27.4504

FLW PRPERTIES

SHOCK ANGLE=54.2603 ENTRPHY=35.2412
GAMMA (AVG.)=1.1667 STAG. ENTHALPY=9.8676E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
54.2603	0.5841	-0.0862	0.59042	0.80055	162.588	9.419	0.47659	3607.7
53.8343	0.5847	-0.0775	0.58982	0.80776	163.505	9.465	0.47739	3610.2
53.4083	0.5852	-0.0689	0.58928	0.81493	164.321	9.505	0.47810	3612.5
52.9822	0.5857	-0.0603	0.58881	0.82208	165.041	9.540	0.47873	3614.3
52.5562	0.5861	-0.0517	0.58840	0.82922	165.666	9.571	0.47927	3616.0
52.1302	0.5865	-0.0432	0.58805	0.83636	166.197	9.597	0.47974	3617.7
51.7041	0.5868	-0.0346	0.58777	0.84352	166.635	9.620	0.48012	3618.4
51.2781	0.5870	-0.0260	0.58754	0.85072	166.978	9.636	0.48043	3619.5
50.8520	0.5871	-0.0174	0.58738	0.85797	167.228	9.648	0.48065	3620.2
50.4260	0.5872	-0.0087	0.58728	0.86528	167.381	9.655	0.48079	3620.8
50.0000	0.5872	0.0000	0.58724	0.87267	167.436	9.658	0.48083	3620.9

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 15854.2 FT./SEC. ENTRPHY=27.4504

FLW PRPERTIES

SHOCK ANGLE=53.8646 ENTRPHY=36.4059
GAMMA (AVG.)=1.2125 STAG. ENTHALPY=1.2813E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
53.8646	0.5897	-0.0789	0.59494	0.80711	211.933	10.237	0.46092	4135.2
53.4782	0.5902	-0.0710	0.59444	0.81366	213.020	10.280	0.46164	4138.3
53.0917	0.5906	-0.0631	0.59400	0.82017	213.990	10.318	0.46225	4141.3
52.7052	0.5910	-0.0553	0.59361	0.82667	214.845	10.351	0.46280	4144.1
52.3188	0.5914	-0.0474	0.59327	0.83316	215.588	10.382	0.46326	4146.0
51.9323	0.5917	-0.0395	0.59298	0.83966	216.220	10.405	0.46366	4148.4
51.5458	0.5919	-0.0317	0.59274	0.84618	216.740	10.427	0.46400	4149.5
51.1594	0.5921	-0.0238	0.59255	0.85273	217.149	10.442	0.46426	4150.9
50.7729	0.5922	-0.0159	0.59242	0.85932	217.445	10.454	0.46446	4151.8
50.3864	0.5923	-0.0080	0.59233	0.86596	217.627	10.461	0.46457	4152.3
50.0000	0.5923	-0.0000	0.59230	0.87266	217.692	10.464	0.46461	4152.5

CBNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PKF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 17836.0 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE=53.8558 ENTRPHY=37.6193
GAMMA (AVG.)=1.2168 STAG. ENTHALPY=1.6151E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.8558	0.5898	-0.0787	0.59505	0.80727	267.960	10.257	0.46113	4980.2
53.4702	0.5903	-0.0708	0.59455	0.81379	269.332	10.301	0.46172	4983.7
51.0846	0.5908	-0.0630	0.59411	0.82029	270.557	10.340	0.46224	4987.0
52.6090	0.5912	-0.0551	0.59372	0.82677	271.638	10.374	0.46269	4989.8
52.3134	0.5915	-0.0473	0.59338	0.83325	272.576	10.404	0.46310	4992.3
51.9279	0.5918	-0.0395	0.59309	0.83974	273.374	10.430	0.46344	4994.3
51.5423	0.5920	-0.0316	0.59285	0.84624	274.031	10.450	0.46372	4996.1
51.1567	0.5922	-0.0237	0.59267	0.85277	274.547	10.467	0.46394	4997.4
50.7711	0.5923	-0.0159	0.59253	0.85935	274.921	10.479	0.46410	4998.4
50.3855	0.5924	-0.0079	0.59245	0.86597	275.151	10.486	0.46420	4998.9
50.0000	0.5924	0.0000	0.59242	0.87266	275.233	10.489	0.46423	4999.2

CBNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PKF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 19817.7 FT./SEC. ENTRPHY=27.4504

FLW PROPERTIES

SHOCK ANGLE=53.6550 ENTRPHY=36.8235
GAMMA (AVG.)=1.1779 STAG. ENTHALPY=1.9883E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.6550	0.5926	-0.0750	0.59737	0.81051	330.464	10.734	0.44010	5672.9
53.2895	0.5931	-0.0675	0.59692	0.81672	332.078	10.779	0.44060	5676.3
52.9240	0.5935	-0.0600	0.59652	0.82291	333.518	10.818	0.44105	5679.4
52.5585	0.5938	-0.0525	0.59617	0.82908	334.788	10.853	0.44144	5682.2
52.1930	0.5942	-0.0451	0.59586	0.83524	335.891	10.884	0.44178	5684.5
51.8275	0.5944	-0.0376	0.59560	0.84141	336.828	10.910	0.44206	5686.5
51.4620	0.5946	-0.0301	0.59539	0.84759	337.600	10.931	0.44230	5688.2
51.0965	0.5948	-0.0226	0.59522	0.85379	338.205	10.948	0.44249	5689.4
50.7310	0.5949	-0.0151	0.59510	0.86003	338.644	10.960	0.44262	5690.4
50.3655	0.5950	-0.0076	0.59502	0.86632	338.913	10.967	0.44271	5691.1
50.0000	0.5950	0.0000	0.59499	0.87266	339.009	10.970	0.44273	5691.2

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NUMBER=22.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 21799.5 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=53.4358 ENTRPHY=40.0182
GAMMA (AVG.)=1.1599 STAG. ENTHALPY=2.4006E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.4358	0.5957	-0.0709	0.59993	0.81411	399.522	11.323	0.42209	6245.0
53.0922	0.5961	-0.0638	0.59953	0.81997	401.365	11.368	0.42253	6248.1
57.7486	0.5965	-0.0567	0.59917	0.82581	403.009	11.408	0.42292	6251.0
52.4050	0.5968	-0.0497	0.59885	0.83162	404.459	11.443	0.42326	6253.4
52.0615	0.5971	-0.0426	0.59858	0.83743	405.718	11.474	0.42356	6255.5
51.7179	0.5973	-0.0355	0.59835	0.84324	406.787	11.500	0.42381	6257.5
51.3743	0.5975	-0.0285	0.59816	0.84907	407.667	11.521	0.42401	6258.9
51.0307	0.5976	-0.0214	0.59801	0.85491	408.357	11.538	0.42418	6259.9
50.6871	0.5977	-0.0143	0.59790	0.86079	408.857	11.550	0.42429	6260.8
50.3435	0.5978	-0.0071	0.59783	0.86670	409.163	11.557	0.42436	6261.4
50.0000	0.5978	0.0000	0.59781	0.87267	409.273	11.560	0.42439	6261.6

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NUMBER=24.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 23781.3 FT./SEC. ENTRPHY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=53.2233 ENTRPHY=41.2147
GAMMA (AVG.)=1.1511 STAG. ENTHALPY=2.8523E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.2233	0.5987	-0.0669	0.60242	0.81763	475.140	11.972	0.40618	6712.1
52.9009	0.5990	-0.0602	0.60207	0.82315	477.203	12.017	0.40656	6715.1
52.5786	0.5994	-0.0535	0.60175	0.82863	479.045	12.057	0.40690	6717.6
52.2563	0.5996	-0.0468	0.60147	0.83410	480.669	12.093	0.40719	6719.9
51.9339	0.5999	-0.0402	0.60123	0.83956	482.078	12.124	0.40745	6721.7
51.6116	0.6001	-0.0335	0.60102	0.84503	483.275	12.149	0.40767	6723.6
51.2893	0.6003	-0.0268	0.60085	0.85050	484.260	12.171	0.40784	6724.9
50.9670	0.6004	-0.0201	0.60072	0.85600	485.032	12.188	0.40799	6725.9
50.6446	0.6005	-0.0135	0.60062	0.86151	485.591	12.200	0.40809	6726.6
50.3223	0.6005	-0.0067	0.60056	0.86707	485.934	12.207	0.40815	6727.2
50.0000	0.6005	0.0000	0.60054	0.87267	486.056	12.210	0.40817	6727.3

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 25763.1 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHECK ANGLE=53.0332 ENTRPHY=42.4370
GAMMA (AVG.)=1.1498 STAG. ENTHALPY=3.3432E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.0332	0.6014	-0.0633	0.60467	0.82080	557.328	12.631	0.39292	7106.3
52.7299	0.6017	-0.0569	0.60435	0.82600	559.611	12.676	0.39325	7109.1
52.4266	0.6019	-0.0506	0.60407	0.83117	561.850	12.717	0.39355	7111.5
52.1232	0.6022	-0.0443	0.60382	0.83633	563.448	12.752	0.39381	7113.6
51.8199	0.6024	-0.0380	0.60360	0.84148	565.008	12.783	0.39404	7115.5
51.5166	0.6026	-0.0317	0.60342	0.84663	566.333	12.808	0.39423	7117.2
51.2111	0.6027	-0.0254	0.60327	0.85179	567.423	12.830	0.39439	7118.4
50.9044	0.6029	-0.0190	0.60315	0.85697	568.278	12.847	0.39451	7119.5
50.6066	0.6029	-0.0127	0.60307	0.86216	568.896	12.859	0.39460	7120.1
50.3033	0.6030	-0.0064	0.60301	0.86740	569.274	12.866	0.39465	7120.5
50.0000	0.6030	0.0000	0.60299	0.87267	569.410	12.869	0.39467	7120.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 27744.8 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHECK ANGLE=52.8708 ENTRPHY=43.6072
GAMMA (AVG.)=1.1543 STAG. ENTHALPY=3.8734E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.8708	0.6036	-0.0601	0.60660	0.82333	646.094	13.265	0.38233	7457.2
52.5837	0.6039	-0.0541	0.60631	0.82845	648.604	13.310	0.38263	7459.8
52.2967	0.6041	-0.0481	0.60606	0.83335	650.846	13.350	0.38289	7462.2
52.0096	0.6044	-0.0421	0.60583	0.83824	652.823	13.385	0.38313	7464.3
51.7225	0.6046	-0.0361	0.60564	0.84312	654.539	13.415	0.38334	7466.2
51.4354	0.6047	-0.0301	0.60547	0.84800	655.996	13.442	0.38351	7467.6
51.1483	0.6049	-0.0241	0.60534	0.85289	657.194	13.463	0.38365	7468.9
50.8612	0.6050	-0.0181	0.60523	0.85780	658.134	13.479	0.38377	7470.0
50.5741	0.6050	-0.0121	0.60515	0.86272	658.813	13.491	0.38384	7470.7
50.2871	0.6051	-0.0060	0.60511	0.86768	659.229	13.499	0.38389	7471.0
50.0000	0.6051	0.0000	0.60509	0.87267	659.378	13.501	0.38391	7471.3

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 29726.6 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=52.7392 ENTROPY=44.9648
GAMMA (AVG.)=1.1628 STAG. ENTHALPY=4.4429E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.7392	0.6054	-0.0575	0.60817	0.82574	741.442	13.835	0.37432	7795.5
52.4653	0.6057	-0.0518	0.60791	0.83044	744.194	13.880	0.37459	7798.2
52.1914	0.6059	-0.0460	0.60768	0.83512	746.652	13.920	0.37484	7800.6
51.9174	0.6061	-0.0403	0.60747	0.83979	748.821	13.955	0.37506	7802.8
51.6435	0.6063	-0.0345	0.60729	0.84445	750.704	13.985	0.37525	7804.6
51.3696	0.6065	-0.0288	0.60714	0.84912	752.302	14.011	0.37541	7806.3
51.0957	0.6066	-0.0231	0.60702	0.85379	753.616	14.032	0.37554	7807.7
50.8218	0.6067	-0.0173	0.60692	0.85847	754.647	14.049	0.37565	7808.6
50.5478	0.6067	-0.0116	0.60685	0.86318	755.391	14.061	0.37572	7809.2
50.2739	0.6068	-0.0058	0.60681	0.86791	755.847	14.068	0.37577	7809.7
50.0000	0.6068	0.0000	0.60679	0.87267	756.010	14.071	0.37578	7809.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 34681.0 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=52.5578 ENTROPY=48.2601
GAMMA (AVG.)=1.1865 STAG. ENTHALPY=6.0384E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.5578	0.6080	-0.0539	0.61035	0.82881	1008.654	14.718	0.36477	8811.8
52.3020	0.6082	-0.0485	0.61012	0.83320	1012.154	14.762	0.36502	8815.1
52.0462	0.6084	-0.0432	0.60992	0.83757	1015.282	14.801	0.36525	8818.3
51.7904	0.6086	-0.0378	0.60974	0.84194	1018.042	14.835	0.36545	8820.9
51.5346	0.6087	-0.0324	0.60958	0.84629	1020.439	14.864	0.36562	8823.3
51.2789	0.6089	-0.0270	0.60945	0.85066	1022.473	14.889	0.36577	8825.5
51.0231	0.6090	-0.0216	0.60934	0.85502	1024.147	14.910	0.36589	8827.2
50.7673	0.6090	-0.0162	0.60926	0.85940	1025.458	14.926	0.36598	8828.4
50.5115	0.6091	-0.0108	0.60919	0.86380	1026.405	14.938	0.36605	8829.2
50.2557	0.6091	-0.0054	0.60916	0.86822	1026.985	14.945	0.36609	8829.8
50.0000	0.6091	0.0000	0.60914	0.87267	1027.192	14.948	0.36611	8829.9

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=100000.0 FEET PRESSURE=2.3270E 01 PSF
DENSITY=3.3180E-05 SLUGS/CU. FT. TEMPERATURE= 226.99 DEG. K
VELOCITY= 39635.5 FT./SEC. ENTROPY=27.4504

FLOW PROPERTIES

SHOCK ANGLE=52.6652 ENTROPY=51.6462
GAMMA IAVG.=1.2375 STAG. ENTHALPY=7.8794E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
>2.6652	0.6065	-0.0560	0.60905	0.82704	1317.301	14.188	0.38104	10708.2
>2.3987	0.6067	-0.0504	0.60881	0.83160	1322.047	14.228	0.38133	10714.5
>2.1322	0.6069	-0.0448	0.60859	0.83614	1326.289	14.265	0.38159	10720.0
>1.8657	0.6071	-0.0392	0.60839	0.84068	1330.034	14.297	0.38182	10724.8
>1.5991	0.6073	-0.0337	0.60823	0.84521	1333.286	14.325	0.38202	10729.2
>1.3326	0.6074	-0.0281	0.60808	0.84974	1336.049	14.349	0.38219	10732.9
>1.0661	0.6075	-0.0225	0.60797	0.85429	1338.322	14.368	0.38233	10735.7
>0.7996	0.6076	-0.0169	0.60787	0.85889	1340.103	14.384	0.38243	10738.1
>0.5330	0.6077	-0.0113	0.60781	0.86342	1341.391	14.395	0.38251	10739.6
>0.2665	0.6077	-0.0056	0.60776	0.86803	1342.180	14.402	0.38256	10740.8
>0.0000	0.6077	-0.0000	0.60775	0.87266	1342.461	14.404	0.38258	10741.0

TABLE 7

Flow Properties For Cone Angles From 2.5° to 50°
At Various Mach Numbers For An Altitude of 125,000 Feet.

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 3.5581 ENTROPY=28.8860
GAMMA (AVG.)=1.3988 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.5581	0.9981	-0.0337	0.99864	0.02839	2.422	1.844	0.04781	321.9
3.4223	0.9981	-0.0302	0.99859	0.02999	2.499	1.886	0.04803	324.8
3.3464	0.9982	-0.0269	0.99854	0.03148	2.564	1.921	0.04821	327.2
3.2406	0.9982	-0.0236	0.99851	0.03291	2.621	1.951	0.04836	329.2
3.1348	0.9983	-0.0204	0.99848	0.03432	2.670	1.977	0.04849	330.9
3.0290	0.9983	-0.0171	0.99845	0.03573	2.713	2.000	0.04860	332.5
2.9232	0.9983	-0.0138	0.99842	0.03717	2.749	2.019	0.04869	333.7
2.8174	0.9984	-0.0105	0.99841	0.03866	2.779	2.035	0.04877	334.7
2.7116	0.9984	-0.0071	0.99839	0.04022	2.802	2.047	0.04883	335.5
2.6058	0.9984	-0.0036	0.99838	0.04187	2.817	2.054	0.04886	336.0
2.5000	0.9984	-0.0000	0.99838	0.04363	2.823	2.057	0.04888	336.2

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 3.4507 ENTROPY=28.9133
GAMMA (AVG.)=1.3983 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.4507	0.9982	-0.0305	0.99865	0.02967	2.690	1.973	0.04497	334.3
3.3556	0.9982	-0.0274	0.99861	0.03113	2.770	2.014	0.04516	337.1
3.2605	0.9983	-0.0244	0.99857	0.03249	2.839	2.050	0.04532	339.4
3.1655	0.9983	-0.0214	0.99854	0.03381	2.898	2.080	0.04545	341.4
3.0704	0.9983	-0.0184	0.99852	0.03511	2.950	2.107	0.04557	343.1
2.9755	0.9984	-0.0155	0.99849	0.03642	2.994	2.130	0.04566	344.6
2.8803	0.9984	-0.0125	0.99847	0.03775	3.032	2.149	0.04575	345.9
2.7852	0.9984	-0.0095	0.99846	0.03912	3.063	2.165	0.04581	346.9
2.6901	0.9984	-0.0064	0.99845	0.04054	3.087	2.176	0.04586	347.6
2.5951	0.9984	-0.0032	0.99844	0.04204	3.102	2.184	0.04590	348.1
2.5000	0.9984	-0.0000	0.99844	0.04363	3.108	2.187	0.04591	348.3

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.0157

FLOW PROPERTIES

SHOCK ANGLE= 3.3626 ENTROPY=28.9458
GAMMA (AVG.)=1.3979 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
1.3626	0.9983	-0.0279	0.99867	0.03075	2.980	2.103	0.04256	347.4
1.2763	0.9983	-0.0251	0.99863	0.03209	3.063	2.145	0.04273	350.1
1.1901	0.9984	-0.0223	0.99860	0.03336	3.135	2.180	0.04287	352.4
1.1038	0.9984	-0.0196	0.99857	0.03458	3.197	2.211	0.04299	354.4
1.0176	0.9984	-0.0168	0.99855	0.03579	3.251	2.236	0.04309	356.0
2.9313	0.9984	-0.0141	0.99853	0.03700	3.297	2.261	0.04318	357.5
2.8450	0.9985	-0.0114	0.99852	0.03823	3.337	2.280	0.04325	358.7
2.7588	0.9985	-0.0086	0.99850	0.03950	3.369	2.296	0.04331	359.7
2.6725	0.9985	-0.0058	0.99849	0.04081	3.393	2.307	0.04335	360.4
2.5863	0.9985	-0.0030	0.99849	0.04218	3.409	2.315	0.04338	360.9
2.5000	0.9985	0.0000	0.99848	0.04363	3.415	2.318	0.04339	361.1

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30808.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 3.2895 ENTROPY=28.9832
GAMMA (AVG.)=1.3973 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.2895	0.9984	-0.0257	0.99868	0.03159	3.291	2.234	0.04049	361.1
3.2106	0.9984	-0.0231	0.99865	0.03292	3.377	2.275	0.04064	363.8
3.1316	0.9984	-0.0205	0.99863	0.03410	3.452	2.311	0.04077	366.1
3.0527	0.9984	-0.0180	0.99860	0.03524	3.516	2.342	0.04087	368.0
2.9737	0.9985	-0.0155	0.99858	0.03637	3.573	2.369	0.04097	369.7
2.8948	0.9985	-0.0130	0.99857	0.03750	3.622	2.392	0.04105	371.1
2.8158	0.9985	-0.0105	0.99855	0.03865	3.663	2.411	0.04111	372.3
2.7369	0.9985	-0.0079	0.99854	0.03982	3.696	2.427	0.04116	373.2
2.6579	0.9985	-0.0053	0.99853	0.04103	3.721	2.439	0.04120	374.0
2.5790	0.9985	-0.0027	0.99853	0.04230	3.737	2.446	0.04123	374.4
2.5000	0.9985	0.0000	0.99853	0.04363	3.743	2.449	0.04124	374.6

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTRAPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 3.1533 ENTRAPPY=29.0973
GAMMA AVG.=1.3952 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

P/A	VR	VN	V	THETA	P	RHB	MU	T (K)
1.131	0.9985	-0.0215	0.99872	0.03350	4.160	2.557	0.03644	398.7
1.080	0.9985	-0.0193	0.99870	0.03454	4.255	2.599	0.03655	401.2
1.027	0.9985	-0.0172	0.99868	0.03554	4.337	2.635	0.03665	403.4
2.973	0.9985	-0.0151	0.99866	0.03652	4.409	2.666	0.03674	405.3
2.820	0.9985	-0.0130	0.99865	0.03749	4.472	2.693	0.03681	406.9
2.627	0.9985	-0.0109	0.99863	0.03846	4.526	2.716	0.03687	408.3
2.463	0.9985	-0.0087	0.99862	0.03944	4.571	2.736	0.03692	409.5
2.690	0.9985	-0.0066	0.99862	0.04043	4.608	2.752	0.03696	410.4
2.507	0.9985	-0.0044	0.99861	0.04146	4.635	2.763	0.03699	411.1
2.453	0.9985	-0.0022	0.99861	0.04252	4.652	2.771	0.03701	411.5
2.500	0.9985	0.0000	0.99861	0.04363	4.659	2.773	0.03702	411.7

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTRAPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 3.0606 ENTRAPPY=29.2367
GAMMA AVG.=1.3921 STAG. ENTHALPY=6.5073E 08 FT. SQ./SEC. SQ.

P/A	VR	VN	V	THETA	P	RHB	MU	T (K)
3.0806	0.9986	-0.0186	0.99875	0.03478	5.160	2.869	0.03349	440.8
3.0046	0.9986	-0.0167	0.99873	0.03569	5.264	2.911	0.03356	443.2
2.9485	0.9986	-0.0149	0.99872	0.03657	5.355	2.947	0.03366	445.4
2.8924	0.9986	-0.0130	0.99870	0.03742	5.435	2.978	0.03373	447.3
2.8364	0.9986	-0.0112	0.99869	0.03828	5.505	3.006	0.03379	448.9
2.7803	0.9986	-0.0094	0.99868	0.03913	5.564	3.029	0.03384	450.2
2.7242	0.9986	-0.0075	0.99868	0.03999	5.614	3.048	0.03388	451.4
2.6682	0.9987	-0.0057	0.99867	0.04086	5.655	3.064	0.03391	452.3
2.6121	0.9987	-0.0038	0.99867	0.04175	5.684	3.076	0.03394	452.9
2.5561	0.9987	-0.0019	0.99866	0.04268	5.703	3.083	0.03395	453.4
2.5000	0.9987	0.0000	0.99866	0.04363	5.710	3.086	0.03396	453.5

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NØ.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE= 6.2697 ENTRØPY=29.1226
GAMMA (AVG.)=1.3947 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
6.2697	0.9940	-0.0417	0.99489	0.06750	4.344	2.619	0.07185	406.5
6.1428	0.9941	-0.0375	0.99481	0.06953	4.441	2.661	0.07208	409.0
6.0158	0.9942	-0.0333	0.99474	0.07148	4.525	2.697	0.07227	411.2
5.8888	0.9942	-0.0292	0.99468	0.07339	4.598	2.728	0.07244	413.1
5.7618	0.9943	-0.0251	0.99463	0.07528	4.662	2.755	0.07258	414.7
5.6349	0.9944	-0.0211	0.99458	0.07718	4.717	2.778	0.07270	416.1
5.5079	0.9944	-0.0169	0.99454	0.07909	4.763	2.798	0.07281	417.2
5.3809	0.9944	-0.0128	0.99451	0.08104	4.801	2.814	0.07289	418.2
5.2539	0.9945	-0.0086	0.99449	0.08304	4.828	2.825	0.07295	418.9
5.1270	0.9945	-0.0043	0.99448	0.08511	4.846	2.833	0.07298	419.3
5.0000	0.9945	0.0000	0.99447	0.08727	4.853	2.835	0.07300	419.4

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NØ.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE= 6.1261 ENTRØPY=29.2358
GAMMA (AVG.)=1.3921 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
6.1261	0.9943	-0.0372	0.99498	0.06950	5.153	2.867	0.06724	440.5
6.0135	0.9944	-0.0335	0.99492	0.07132	5.257	2.909	0.06743	443.0
5.9009	0.9944	-0.0298	0.99486	0.07308	5.348	2.945	0.06760	445.1
5.7883	0.9945	-0.0261	0.99481	0.07480	5.428	2.976	0.06774	447.0
5.6757	0.9945	-0.0224	0.99477	0.07651	5.498	3.004	0.06786	448.6
5.5630	0.9946	-0.0188	0.99474	0.07822	5.557	3.027	0.06796	449.9
5.4504	0.9946	-0.0151	0.99471	0.07995	5.607	3.047	0.06805	451.1
5.3378	0.9946	-0.0114	0.99468	0.08170	5.647	3.062	0.06811	452.0
5.2252	0.9946	-0.0077	0.99466	0.08350	5.677	3.074	0.06816	452.7
5.1126	0.9946	-0.0039	0.99465	0.08535	5.696	3.081	0.06820	453.1
5.0000	0.9946	0.0000	0.99465	0.08727	5.703	3.084	0.06821	453.2

CRNE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 6.0165 ENTRPHY=29.3619
GAMMA (AVG.)=1.3887 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.9309	0.9946	-0.0310	0.99513	0.07231	7.023	3.329	0.06054	517.1
5.8378	0.9947	-0.0279	0.99508	0.07384	7.145	3.370	0.06068	519.5
5.7447	0.9947	-0.0248	0.99505	0.07532	7.251	3.407	0.06080	521.7
5.6516	0.9948	-0.0217	0.99501	0.07679	7.345	3.438	0.06091	523.6
5.5585	0.9948	-0.0187	0.99498	0.07823	7.427	3.466	0.06100	525.2
5.4654	0.9948	-0.0156	0.99496	0.07968	7.497	3.490	0.06108	526.6
5.3723	0.9949	-0.0126	0.99493	0.08114	7.556	3.509	0.06114	527.7
5.2793	0.9949	-0.0095	0.99492	0.08262	7.602	3.525	0.06119	528.6
5.1862	0.9949	-0.0064	0.99490	0.08413	7.637	3.536	0.06123	529.3
5.0931	0.9949	-0.0032	0.99490	0.08567	7.658	3.544	0.06125	529.7
5.0000	0.9949	0.0000	0.99489	0.08727	7.666	3.546	0.06126	529.8

CRNE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 5.9309 ENTRPHY=29.4984
GAMMA (AVG.)=1.3846 STAG. ENTHALPY=3.0784E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.9309	0.9946	-0.0310	0.99513	0.07231	7.023	3.329	0.06054	517.1
5.8378	0.9947	-0.0279	0.99508	0.07384	7.145	3.370	0.06068	519.5
5.7447	0.9947	-0.0248	0.99505	0.07532	7.251	3.407	0.06080	521.7
5.6516	0.9948	-0.0217	0.99501	0.07679	7.345	3.438	0.06091	523.6
5.5585	0.9948	-0.0187	0.99498	0.07823	7.427	3.466	0.06100	525.2
5.4654	0.9948	-0.0156	0.99496	0.07968	7.497	3.490	0.06108	526.6
5.3723	0.9949	-0.0126	0.99493	0.08114	7.556	3.509	0.06114	527.7
5.2793	0.9949	-0.0095	0.99492	0.08262	7.602	3.525	0.06119	528.6
5.1862	0.9949	-0.0064	0.99490	0.08413	7.637	3.536	0.06123	529.3
5.0931	0.9949	-0.0032	0.99490	0.08567	7.658	3.544	0.06125	529.7
5.0000	0.9949	0.0000	0.99489	0.08727	7.666	3.546	0.06126	529.8

CBME SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLW PROPERTIES

SHOCK ANGLE= 5.8623 ENTRPHY=29.6431
GAMMA (AVG.)=1.3798 STAG. ENTHALPY=3.6096E 00 FT. SQ./SEC. SQ.

ETA	VN	VN	V	THETA	P	RHO	MU	T (K)
5.8623	0.9948	-0.0288	0.99519	0.07333	8.085	3.541	0.05802	559.6
5.7761	0.9948	-0.0259	0.99515	0.07474	8.216	3.582	0.05815	562.1
5.6899	0.9948	-0.0231	0.99511	0.07613	8.331	3.619	0.05826	564.3
5.6036	0.9949	-0.0202	0.99508	0.07749	8.433	3.651	0.05835	566.1
5.5174	0.9949	-0.0174	0.99506	0.07885	8.521	3.679	0.05843	567.8
5.4312	0.9949	-0.0145	0.99504	0.08020	8.597	3.702	0.05850	569.2
5.3449	0.9949	-0.0117	0.99502	0.08157	8.660	3.722	0.05856	570.3
5.2587	0.9950	-0.0088	0.99500	0.08295	8.710	3.737	0.05861	571.2
5.1725	0.9950	-0.0059	0.99499	0.08435	8.748	3.749	0.05864	571.9
5.0862	0.9950	-0.0030	0.99498	0.08579	8.771	3.756	0.05866	572.3
5.0000	0.9950	0.0000	0.99498	0.08727	8.779	3.759	0.05867	572.4

CBME SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26829.1 FT./SEC. ENTRPHY=28.8157

FLW PROPERTIES

SHOCK ANGLE= 5.8065 ENTRPHY=29.7939
GAMMA (AVG.)=1.3744 STAG. ENTHALPY=4.1821E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.8065	0.9949	-0.0270	0.99524	0.07416	9.230	3.740	0.05590	604.8
5.7298	0.9949	-0.0243	0.99520	0.07549	9.372	3.782	0.05601	607.3
5.6532	0.9949	-0.0216	0.99517	0.07680	9.497	3.818	0.05611	609.5
5.5665	0.9950	-0.0189	0.99514	0.07808	9.607	3.850	0.05620	611.5
5.4839	0.9950	-0.0163	0.99512	0.07936	9.702	3.878	0.05627	613.1
5.4032	0.9950	-0.0136	0.99510	0.08063	9.784	3.902	0.05633	614.5
5.3226	0.9950	-0.0109	0.99509	0.08192	9.852	3.922	0.05638	615.7
5.2419	0.9950	-0.0082	0.99507	0.08322	9.906	3.937	0.05642	616.6
5.1613	0.9950	-0.0055	0.99506	0.08453	9.946	3.949	0.05645	617.3
5.0806	0.9951	-0.0028	0.99506	0.08588	9.971	3.956	0.05647	617.7
5.0000	0.9951	0.0000	0.99506	0.08727	9.980	3.959	0.05648	617.8

CONE SEMI-ANGLE= 5.0
 FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 30888.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 5.7601 ENTRPHY=29.9493
 GAMMA (AVG.)=1.3686 STAG. ENTHALPY=4.7969E C3 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.7601	0.9950	-0.0256	0.99528	0.07486	10.461	3.928	0.05408	652.7
5.6841	0.9950	-0.0230	0.99525	0.07612	10.613	3.970	0.05418	655.2
5.6081	0.9950	-0.0204	0.99522	0.07735	10.748	4.007	0.05427	657.4
5.5321	0.9950	-0.0179	0.99520	0.07857	10.866	4.039	0.05435	659.4
5.4561	0.9951	-0.0154	0.99518	0.07978	10.969	4.067	0.05441	661.1
5.3801	0.9951	-0.0128	0.99516	0.08099	11.057	4.091	0.05447	662.5
5.3040	0.9951	-0.0103	0.99514	0.08221	11.131	4.110	0.05452	663.7
5.2280	0.9951	-0.0078	0.99513	0.08344	11.169	4.126	0.05455	664.6
5.1520	0.9951	-0.0052	0.99512	0.08469	11.232	4.138	0.05458	665.3
5.0760	0.9951	-0.0026	0.99512	0.08596	11.258	4.145	0.05460	665.7
5.0000	0.9951	0.0000	0.99517	0.08727	11.268	4.147	0.05460	665.9

CONE SEMI-ANGLE= 5.0
 FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 36036.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 5.6727 ENTRPHY=30.3495
 GAMMA (AVG.)=1.3539 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6727	0.9951	-0.0227	0.99536	0.07619	13.907	4.353	0.05049	783.0
5.6055	0.9951	-0.0204	0.99534	0.07732	14.089	4.395	0.05057	785.7
5.5382	0.9951	-0.0182	0.99531	0.07842	14.250	4.432	0.05064	788.0
5.4709	0.9952	-0.0159	0.99530	0.07951	14.392	4.464	0.05071	790.1
5.4036	0.9952	-0.0137	0.99528	0.08059	14.515	4.493	0.05076	791.8
5.3364	0.9952	-0.0114	0.99527	0.08168	14.621	4.517	0.05081	793.3
5.2691	0.9952	-0.0092	0.99525	0.08277	14.708	4.537	0.05084	794.6
5.2018	0.9952	-0.0069	0.99525	0.08386	14.777	4.552	0.05087	795.5
5.1345	0.9952	-0.0046	0.99524	0.08498	14.828	4.564	0.05090	796.2
5.0673	0.9952	-0.0023	0.99523	0.08611	14.860	4.571	0.05091	796.7
5.0000	0.9952	0.0000	0.99523	0.08727	14.871	4.574	0.05091	796.9

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 5.6115 ENTROPY=30.7565
GAMMA (AVG.)=1.3402 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6115	0.9952	-0.0207	0.99542	0.07714	17.883	4.723	0.04784	927.9
5.5503	0.9952	-0.0186	0.99540	0.07817	18.098	4.765	0.04791	930.7
5.4892	0.9952	-0.0165	0.99538	0.07918	18.288	4.803	0.04797	933.2
5.4280	0.9953	-0.0145	0.99537	0.08018	18.456	4.836	0.04803	935.4
5.3669	0.9953	-0.0124	0.99535	0.08117	18.602	4.864	0.04807	937.2
5.3057	0.9953	-0.0104	0.99534	0.08216	18.726	4.888	0.04811	938.8
5.2446	0.9953	-0.0083	0.99533	0.08316	18.829	4.908	0.04814	940.1
5.1834	0.9953	-0.0063	0.99533	0.08416	18.911	4.924	0.04817	941.2
5.1223	0.9953	-0.0042	0.99532	0.08518	18.970	4.936	0.04819	941.9
5.0611	0.9953	-0.0021	0.99532	0.08621	19.007	4.943	0.04820	942.4
5.0000	0.9953	-0.0000	0.99532	0.08727	19.021	4.946	0.04820	942.6

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 9.1129 ENTROPY=29.2956
GAMMA (AVG.)=1.3906 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
9.1129	0.9874	-0.0531	0.98880	0.10534	5.576	2.984	0.09860	458.0
8.9516	0.9875	-0.0477	0.98867	0.10795	5.684	3.025	0.09887	460.5
8.7903	0.9876	-0.0424	0.98855	0.11048	5.779	3.061	0.09911	462.6
8.6290	0.9878	-0.0372	0.98845	0.11296	5.862	3.093	0.09931	464.5
8.4677	0.9878	-0.0320	0.98836	0.11541	5.934	3.120	0.09949	466.1
8.3065	0.9879	-0.0268	0.98829	0.11789	5.996	3.144	0.09964	467.5
8.1452	0.9880	-0.0215	0.98823	0.12038	6.048	3.163	0.09976	468.6
7.9839	0.9880	-0.0162	0.98818	0.12291	6.090	3.179	0.09986	469.5
7.8226	0.9881	-0.0109	0.98814	0.12549	6.121	3.191	0.09993	470.2
7.6613	0.9881	-0.0055	0.98812	0.12815	6.140	3.198	0.09998	470.6
7.5000	0.9881	0.0000	0.98811	0.13090	6.147	3.201	0.09999	470.7

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.9055 ENTROPY=29.4960
GAMMA (AVG.)=1.3847 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.9055	0.9879	-0.0466	0.98904	0.10834	7.006	3.325	0.09137	516.4
8.7649	0.9880	-0.0419	0.98894	0.11064	7.127	3.366	0.09159	518.8
8.6244	0.9881	-0.0372	0.98885	0.11287	7.234	3.403	0.09178	521.0
8.4838	0.9882	-0.0326	0.98877	0.11508	7.328	3.435	0.09195	522.9
8.3433	0.9883	-0.0280	0.98870	0.11726	7.409	3.462	0.09209	524.5
8.2027	0.9884	-0.0234	0.98864	0.11945	7.479	3.486	0.09221	525.8
8.0622	0.9884	-0.0188	0.98860	0.12165	7.537	3.505	0.09231	527.0
7.9216	0.9885	-0.0142	0.98856	0.12389	7.584	3.521	0.09239	527.9
7.7811	0.9885	-0.0095	0.98853	0.12616	7.618	3.533	0.09245	528.5
7.6405	0.9885	-0.0048	0.98851	0.12849	7.640	3.540	0.09249	529.0
7.5000	0.9885	0.0000	0.98850	0.13090	7.648	3.542	0.09250	529.1

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CC. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.7574 ENTRPHY=29.7140
GAMMA (AVG.)=1.3773 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.7574	0.9883	-0.0419	0.98923	0.11053	8.624	3.638	0.08589	581.0
8.6317	0.9884	-0.0376	0.98914	0.11260	8.760	3.679	0.08608	583.5
8.5059	0.9885	-0.0335	0.98907	0.11462	8.880	3.716	0.08624	585.7
8.3802	0.9886	-0.0293	0.98901	0.11662	8.986	3.748	0.08637	587.6
8.2544	0.9886	-0.0252	0.98895	0.11860	9.078	3.776	0.08649	589.2
8.1287	0.9887	-0.0211	0.98890	0.12058	9.156	3.800	0.08660	590.6
8.0030	0.9887	-0.0169	0.98886	0.12257	9.222	3.819	0.08668	591.8
7.8772	0.9888	-0.0127	0.98883	0.12459	9.274	3.835	0.08675	592.7
7.7515	0.9888	-0.0085	0.98881	0.12664	9.312	3.846	0.08679	593.3
7.6257	0.9888	-0.0043	0.98880	0.12874	9.336	3.854	0.08682	593.8
7.5000	0.9888	0.0000	0.98879	0.13090	9.345	3.856	0.08684	593.9

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CC. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.6471 ENTRPHY=29.9458
GAMMA (AVG.)=1.3688 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.6471	0.9886	-0.0383	0.98937	0.11218	10.432	3.924	0.08159	651.6
8.5324	0.9887	-0.0345	0.98930	0.11408	10.585	3.966	0.08175	654.1
8.4176	0.9888	-0.0306	0.98924	0.11595	10.719	4.002	0.08188	656.3
8.3029	0.9888	-0.0268	0.98919	0.11778	10.837	4.035	0.08200	658.3
8.1882	0.9889	-0.0230	0.98914	0.11961	10.940	4.063	0.08211	660.0
8.0735	0.9889	-0.0193	0.98910	0.12143	11.028	4.086	0.08219	661.4
7.9588	0.9889	-0.0155	0.98907	0.12327	11.101	4.106	0.08226	662.6
7.8441	0.9890	-0.0117	0.98904	0.12512	11.159	4.122	0.08232	663.5
7.7294	0.9890	-0.0078	0.98902	0.12701	11.202	4.131	0.08236	664.2
7.6147	0.9890	-0.0039	0.98901	0.12893	11.229	4.141	0.08239	664.8
7.5000	0.9890	0.0000	0.98901	0.13090	11.239	4.143	0.08240	664.8

CBME SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=12500.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CC. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.5618 ENTRPHY=30.1841
GAMMA (AVG.)=1.3599 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4939	0.9889	-0.0356	0.98949	0.11348	12.430	4.186	0.07812	727.0
8.4556	0.9889	-0.0320	0.98943	0.11525	12.600	4.228	0.07826	730.4
8.4494	0.9890	-0.0284	0.98938	0.11698	12.750	4.265	0.07838	732.7
8.4412	0.9890	-0.0249	0.98933	0.11870	12.882	4.297	0.07848	734.7
8.4370	0.9891	-0.0214	0.98929	0.12040	12.997	4.325	0.07857	736.4
8.4309	0.9891	-0.0179	0.98926	0.12210	13.095	4.349	0.07865	737.9
7.4247	0.9891	-0.0143	0.98923	0.12361	13.176	4.369	0.07871	739.1
7.4145	0.9891	-0.0108	0.98921	0.12554	13.241	4.385	0.07876	740.0
7.4123	0.9892	-0.0072	0.98919	0.12729	13.288	4.396	0.07879	740.7
7.4067	0.9892	-0.0036	0.98918	0.12907	13.318	4.404	0.07882	741.2
7.4000	0.9892	0.0000	0.98918	0.13090	13.328	4.406	0.07883	741.3

CBME SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CC. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.4939 ENTRPHY=30.4284
GAMMA (AVG.)=1.3511 STAG. ENTHALPY=3.0786E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4939	0.9890	-0.0334	0.98959	0.11452	14.618	4.427	0.07526	809.3
8.4545	0.9891	-0.0300	0.98954	0.11618	14.806	4.469	0.07538	812.0
8.42951	0.9891	-0.0267	0.98949	0.11781	14.973	4.506	0.07549	814.4
8.41957	0.9892	-0.0234	0.98945	0.11943	15.119	4.538	0.07558	816.5
8.40963	0.9892	-0.0201	0.98942	0.12103	15.247	4.567	0.07566	818.2
7.9969	0.9892	-0.0168	0.98939	0.12263	15.356	4.591	0.07573	819.8
7.8975	0.9893	-0.0134	0.98936	0.12424	15.446	4.611	0.07578	821.0
7.7982	0.9893	-0.0101	0.98934	0.12587	15.517	4.627	0.07583	822.0
7.6988	0.9893	-0.0068	0.98933	0.12751	15.570	4.638	0.07586	822.7
7.5994	0.9893	-0.0034	0.98932	0.12919	15.602	4.645	0.07588	823.2
7.5000	0.9893	0.0000	0.98931	0.13090	15.614	4.648	0.07589	823.3

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.3926 ENTROPY=30.9139
GAMMA (AVG.)=1.3429 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4385	0.9892	-0.0316	0.98988	0.11538	16.997	4.649	0.07286	896.0
8.3447	0.9892	-0.0286	0.98983	0.11695	17.204	4.691	0.07297	898.8
8.2508	0.9893	-0.0252	0.98999	0.11850	17.388	4.728	0.07307	901.3
8.1570	0.9893	-0.0221	0.98995	0.12003	17.550	4.761	0.07315	903.4
8.0631	0.9893	-0.0190	0.98992	0.12155	17.691	4.789	0.07322	905.3
7.9693	0.9894	-0.0158	0.98949	0.12307	17.811	4.814	0.07329	906.8
7.8754	0.9894	-0.0127	0.98947	0.12460	17.911	4.834	0.07334	908.1
7.7816	0.9894	-0.0096	0.98945	0.12614	17.990	4.850	0.07338	909.1
7.6877	0.9894	-0.0064	0.98944	0.12770	18.047	4.861	0.07341	909.9
7.5938	0.9894	-0.0032	0.98943	0.12928	18.083	4.868	0.07342	910.3
7.5000	0.9894	0.0000	0.98943	0.13090	18.096	4.871	0.07343	910.5

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE= 8.3926 ENTROPY=30.9139
GAMMA (AVG.)=1.3355 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3926	0.9893	-0.0301	0.98975	0.11610	19.565	4.854	0.07083	987.8
8.3033	0.9893	-0.0270	0.98970	0.11760	19.794	4.897	0.07093	990.7
8.2141	0.9894	-0.0240	0.98967	0.11907	19.996	4.934	0.07102	993.2
8.1248	0.9894	-0.0210	0.98963	0.12053	20.174	4.967	0.07109	995.4
8.0355	0.9894	-0.0181	0.98960	0.12199	20.329	4.996	0.07116	997.3
7.9463	0.9895	-0.0151	0.98958	0.12344	20.461	5.020	0.07122	999.0
7.8570	0.9895	-0.0121	0.98956	0.12490	20.571	5.040	0.07126	1000.3
7.7678	0.9895	-0.0091	0.98954	0.12637	20.658	5.056	0.07130	1001.4
7.6785	0.9895	-0.0061	0.98953	0.12785	20.721	5.067	0.07133	1002.1
7.5892	0.9895	-0.0031	0.98952	0.12936	20.760	5.075	0.07134	1002.6
7.5000	0.9895	0.0000	0.98952	0.13090	20.774	5.077	0.07135	1002.8

CONE SEMI-ANGLE = 7.5
FREE STREAM CONDITIONS

MACH NR. = 30.00 ALTITUDE = 125000.0 FEET PRESSURE = 7.7690E 00 PSF
DENSITY = 1.0260E -05 SLUGS/CU. FT. TEMPERATURE = 245.08 DEG. K
VELOCITY = 30828.3 FT./SEC. ENTRPHY = 28.4157

FLOW PROPERTIES

SHOCK ANGLE = 8.3538 ENTRPHY = 31.1562
GAMMA (AVG.) = 1.3288 STAG. ENTHALPY = 4.7869E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3538	0.9894	-0.0288	0.98981	0.11670	22.324	5.045	0.06909	1084.5
8.2684	0.9894	-0.0259	0.98977	0.11814	22.574	5.087	0.06918	1087.5
8.1831	0.9895	-0.0230	0.98973	0.11956	22.796	5.125	0.06926	1090.1
8.0977	0.9895	-0.0202	0.98970	0.12096	22.992	5.158	0.06933	1092.4
8.0123	0.9895	-0.0173	0.98968	0.12236	23.161	5.187	0.06939	1094.4
7.9269	0.9895	-0.0144	0.98965	0.12375	23.306	5.211	0.06945	1096.1
7.8415	0.9896	-0.0116	0.98963	0.12515	23.426	5.231	0.06949	1097.5
7.7561	0.9896	-0.0087	0.98962	0.12656	23.521	5.247	0.06952	1098.6
7.6708	0.9896	-0.0058	0.98961	0.12798	23.590	5.259	0.06955	1099.4
7.5854	0.9896	-0.0029	0.98960	0.12943	23.633	5.266	0.06956	1099.9
7.5000	0.9896	-0.0000	0.98960	0.13090	23.648	5.269	0.06957	1100.1

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS

MACH NR. = 35.00 ALTITUDE = 125000.0 FEET PRESSURE = 7.7690E 00 PSF
DENSITY = 1.0260E -05 SLUGS/CU. FT. TEMPERATURE = 245.08 DEG. K
VELOCITY = 36036.4 FT./SEC. ENTRPHY = 28.4157

FLOW PROPERTIES

SHOCK ANGLE = 8.2794 ENTRPHY = 31.7508
GAMMA (AVG.) = 1.3159 STAG. ENTHALPY = 6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2794	0.9896	-0.0264	0.98993	0.11768	30.055	5.465	0.06568	1347.9
8.2015	0.9896	-0.0237	0.98989	0.11920	30.364	5.507	0.06576	1351.3
8.1235	0.9896	-0.0211	0.98986	0.12050	30.638	5.545	0.06583	1354.2
8.0456	0.9897	-0.0184	0.98984	0.12179	30.880	5.578	0.06589	1356.7
7.9676	0.9897	-0.0158	0.98982	0.12307	31.090	5.607	0.06594	1358.9
7.8897	0.9897	-0.0132	0.98980	0.12435	31.269	5.631	0.06599	1360.8
7.8118	0.9897	-0.0106	0.98978	0.12563	31.417	5.652	0.06602	1362.4
7.7338	0.9897	-0.0080	0.98977	0.12692	31.534	5.668	0.06605	1363.6
7.6559	0.9897	-0.0053	0.98976	0.12823	31.619	5.679	0.06607	1364.5
7.5779	0.9898	-0.0027	0.98975	0.12955	31.672	5.687	0.06609	1365.0
7.5000	0.9898	-0.0000	0.98975	0.13090	31.691	5.689	0.06609	1365.2

CONE SEMI-ANGLE= 7.5
 FREE STREAM CONDITIONS
 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=0.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41106.4 FT./SEC. ENERGY=28.8157

FLOW PROPERTIES

CHECK ANGLE= 8.2267 ENTRPHY=32.3241
 ALPHA AVG.=1.3070 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

R	VR	VN	V	THETA	P	* RHO	MU	T (K)
4.7267	0.9897	-0.0246	0.99002	0.11872	38.975	5.814	0.06322	1642.8
4.1540	0.9897	-0.0221	0.98999	0.11996	39.350	5.857	0.06329	1646.5
3.5813	0.9898	-0.0177	0.98996	0.12117	39.683	5.895	0.06335	1649.8
3.0087	0.9898	-0.0172	0.98994	0.12238	39.977	5.928	0.06341	1652.7
2.4360	0.9898	-0.0148	0.98992	0.12358	40.232	5.957	0.06345	1655.1
1.8633	0.9898	-0.0123	0.98990	0.12476	40.449	5.982	0.06349	1657.2
1.2907	0.9898	-0.0099	0.98989	0.12598	40.629	6.002	0.06353	1659.0
0.7180	0.9898	-0.0074	0.98988	0.12719	40.770	6.018	0.06355	1660.3
0.1453	0.9899	-0.0050	0.98987	0.12841	40.873	6.030	0.06357	1661.3
0.5727	0.9899	-0.0025	0.98986	0.12964	40.937	6.037	0.06358	1661.9
0.0000	0.9899	-0.0000	0.98986	0.13090	40.960	6.040	0.06359	1662.1

CBNE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.8915 ENTRPHY=29.4927

GAMMA (AVG.)=1.3848 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	WR	VN	V	THETA	P	RHS	MU	T (K)
11.8915	0.9785	-0.0621	0.98050	0.14420	6.982	3.320	0.12292	515.4
11.7024	0.9787	-0.0558	0.98032	0.14728	7.102	3.361	0.12328	517.9
11.5132	0.9789	-0.0496	0.98016	0.15029	7.209	3.398	0.12349	520.0
11.3241	0.9791	-0.0435	0.98002	0.15325	7.303	3.429	0.12372	521.9
11.1349	0.9792	-0.0374	0.97989	0.15619	7.384	3.457	0.12392	523.5
10.9458	0.9793	-0.0313	0.97979	0.15913	7.454	3.481	0.12409	524.9
10.7566	0.9794	-0.0251	0.97971	0.16209	7.512	3.500	0.12423	526.0
10.5675	0.9795	-0.0189	0.97964	0.16510	7.559	3.516	0.12434	526.9
10.3783	0.9795	-0.0127	0.97959	0.16816	7.593	3.527	0.12442	527.4
10.1891	0.9795	-0.0064	0.97956	0.17130	7.615	3.535	0.12448	528.0
10.0000	0.9795	0.0000	0.97954	0.17453	7.622	3.537	0.12449	528.1

CONF SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.6372 ENTRPHY=29.7864
GAMMA (AVG.)=1.3747 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
11.6372	0.9794	-0.0541	0.98073	0.14796	9.172	3.731	0.11341	602.9
11.4734	0.9796	-0.0486	0.98079	0.15066	9.313	3.772	0.11365	605.1
11.3097	0.9797	-0.0432	0.98067	0.15330	9.437	3.809	0.11386	607.2
11.1460	0.9798	-0.0379	0.98056	0.15590	9.547	3.841	0.11405	609.2
10.9823	0.9799	-0.0325	0.98047	0.15845	9.642	3.869	0.11420	610.8
10.8186	0.9800	-0.0272	0.98039	0.16107	9.723	3.892	0.11434	612.2
10.6549	0.9801	-0.0218	0.98032	0.16368	9.791	3.912	0.11445	613.4
10.4911	0.9801	-0.0165	0.98027	0.16631	9.845	3.928	0.11454	614.3
10.3274	0.9802	-0.0110	0.98023	0.16899	9.885	3.939	0.11460	615.0
10.1637	0.9802	-0.0056	0.98021	0.17172	9.910	3.947	0.11464	615.4
10.0000	0.9802	0.0000	0.98020	0.17453	9.919	3.949	0.11465	615.5

CONF SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.4627 ENTRPHY=30.0988
GAMMA (AVG.)=1.3630 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
11.4627	0.9801	-0.0485	0.98125	0.15059	11.698	4.095	0.10645	700.1
11.3164	0.9802	-0.0436	0.98114	0.15302	11.861	4.137	0.10665	702.6
11.1702	0.9803	-0.0388	0.98104	0.15540	12.006	4.174	0.10682	704.9
11.0239	0.9804	-0.0340	0.98095	0.15775	12.133	4.206	0.10697	706.9
10.8776	0.9804	-0.0292	0.98088	0.16009	12.243	4.234	0.10710	708.6
10.7313	0.9805	-0.0244	0.98081	0.16243	12.338	4.258	0.10721	710.0
10.5851	0.9806	-0.0196	0.98071	0.16478	12.416	4.278	0.10730	711.2
10.4388	0.9806	-0.0147	0.98072	0.16715	12.478	4.294	0.10738	712.2
10.2925	0.9806	-0.0099	0.98069	0.16956	12.524	4.305	0.10743	712.9
10.1463	0.9807	-0.0050	0.98067	0.17202	12.552	4.313	0.10746	713.3
10.0000	0.9807	0.0000	0.98066	0.17453	12.563	4.315	0.10747	713.5

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10533.0 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.3358 ENTRBPY=30.4203
GAMMA (AVG.)=1.3513 STAG. ENTHALPY=1.7419E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.3358	0.9805	-0.0445	0.98150	0.15253	14.561	4.421	0.10112	807.2
11.2022	0.9806	-0.0400	0.98160	0.15476	14.748	4.463	0.10129	809.9
11.0687	0.9807	-0.0355	0.98132	0.15695	14.914	4.500	0.10144	812.3
10.9351	0.9808	-0.0311	0.98124	0.15912	15.061	4.533	0.10157	814.3
10.8015	0.9808	-0.0267	0.98118	0.16127	15.188	4.561	0.10168	816.1
10.6679	0.9809	-0.0223	0.98113	0.16343	15.296	4.585	0.10177	817.6
10.5343	0.9809	-0.0179	0.98108	0.16559	15.386	4.605	0.10185	818.9
10.4007	0.9810	-0.0135	0.98105	0.16777	15.457	4.621	0.10191	819.9
10.2672	0.9810	-0.0090	0.98102	0.16998	15.510	4.632	0.10196	820.6
10.1336	0.9810	-0.0045	0.98100	0.17223	15.542	4.639	0.10198	821.0
10.0000	0.9810	0.0000	0.98100	0.17453	15.554	4.642	0.10200	821.2

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.2393 ENTRBPY=30.7447
GAMMA (AVG.)=1.3405 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.2393	0.9808	-0.0414	0.98164	0.15403	17.760	4.713	0.09692	923.5
11.1154	0.9809	-0.0372	0.98161	0.15610	17.974	4.755	0.09707	926.3
10.9915	0.9810	-0.0331	0.98154	0.15815	18.163	4.793	0.09720	928.8
10.8675	0.9810	-0.0290	0.98147	0.16017	18.330	4.826	0.09731	931.0
10.7436	0.9811	-0.0249	0.98142	0.16218	18.475	4.854	0.09741	932.8
10.6197	0.9812	-0.0208	0.98137	0.16419	18.599	4.878	0.09749	934.4
10.4957	0.9812	-0.0167	0.98133	0.16621	18.702	4.898	0.09756	935.7
10.3718	0.9812	-0.0125	0.98130	0.16824	18.783	4.914	0.09761	936.7
10.2479	0.9812	-0.0084	0.98128	0.17030	18.842	4.926	0.09765	937.5
10.1239	0.9813	-0.0042	0.98126	0.17240	18.879	4.933	0.09768	938.0
10.0000	0.9813	0.0000	0.98126	0.17453	18.893	4.936	0.09769	938.1

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.1635 ENTROPY=31.0681
GAMMA (AVG.)=1.3311 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.1635	0.9811	-0.0389	0.98185	0.15521	21.296	4.977	0.09353	1048.7
11.0472	0.9812	-0.0350	0.98177	0.15717	21.538	5.019	0.09366	1051.6
10.9309	0.9812	-0.0311	0.98171	0.15910	21.753	5.057	0.09378	1054.2
10.8145	0.9813	-0.0272	0.98165	0.16100	21.942	5.090	0.09388	1056.5
10.6981	0.9813	-0.0234	0.98160	0.16290	22.106	5.119	0.09397	1058.5
10.5813	0.9814	-0.0195	0.98156	0.16480	22.246	5.143	0.09404	1060.1
10.4654	0.9814	-0.0157	0.98153	0.16670	22.362	5.163	0.09410	1061.5
10.3491	0.9814	-0.0118	0.98150	0.16862	22.454	5.179	0.09415	1062.6
10.2327	0.9815	-0.0079	0.98148	0.17056	22.521	5.191	0.09419	1063.4
10.1163	0.9815	-0.0040	0.98147	0.17253	22.563	5.198	0.09421	1063.8
10.0000	0.9815	0.0000	0.98146	0.17453	22.578	5.200	0.09422	1064.0

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.1025 ENTROPY=31.3881
GAMMA (AVG.)=1.3232 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.1025	0.9813	-0.0369	0.98198	0.15617	25.169	5.216	0.09076	1182.6
10.9922	0.9813	-0.0332	0.98191	0.15803	25.441	5.259	0.09088	1185.7
10.8820	0.9814	-0.0295	0.98185	0.15986	25.683	5.296	0.09098	1188.4
10.7717	0.9815	-0.0258	0.98180	0.16168	25.896	5.329	0.09107	1190.8
10.6615	0.9815	-0.0222	0.98176	0.16348	26.080	5.358	0.09115	1192.9
10.5512	0.9815	-0.0185	0.98172	0.16529	26.238	5.383	0.09122	1194.7
10.4410	0.9816	-0.0149	0.98169	0.16710	26.368	5.403	0.09128	1196.1
10.3307	0.9816	-0.0112	0.98166	0.16892	26.471	5.419	0.09132	1197.2
10.2205	0.9816	-0.0075	0.98165	0.17076	26.547	5.430	0.09135	1198.1
10.1102	0.9816	-0.0038	0.98164	0.17263	26.593	5.438	0.09137	1198.6
10.0000	0.9816	-0.0000	0.98163	0.17453	26.610	5.440	0.09138	1198.8

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.0524 ENTROPY=31.7031
GAMMA (AVG.)=1.3167 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.0524	0.9815	-0.0353	0.98209	0.15696	29.380	5.433	0.08845	1325.3
10.9472	0.9815	-0.0317	0.98202	0.15874	29.684	5.476	0.08856	1328.6
10.8419	0.9816	-0.0282	0.98197	0.16050	29.954	5.513	0.08866	1331.5
10.7367	0.9816	-0.0247	0.98192	0.16223	30.191	5.547	0.08874	1334.0
10.6315	0.9817	-0.0212	0.98188	0.16396	30.398	5.575	0.08882	1336.2
10.5262	0.9817	-0.0177	0.98185	0.16569	30.574	5.600	0.08888	1338.1
10.4210	0.9817	-0.0142	0.98182	0.16742	30.720	5.620	0.08893	1339.6
10.3157	0.9817	-0.0107	0.98180	0.16917	30.835	5.636	0.08897	1340.8
10.2105	0.9818	-0.0071	0.98178	0.17093	30.919	5.648	0.08900	1341.7
10.1052	0.9818	-0.0036	0.98177	0.17272	30.971	5.655	0.08902	1342.2
10.0000	0.9818	0.0000	0.98177	0.17453	30.989	5.658	0.08902	1342.4

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=11.0108 ENTROPY=32.0121
GAMMA (AVG.)=1.3114 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.0108	0.9816	-0.0339	0.98218	0.15763	33.927	5.630	0.08651	1476.9
10.9097	0.9816	-0.0305	0.98212	0.15934	34.265	5.673	0.08661	1480.4
10.8086	0.9817	-0.0271	0.98207	0.16103	34.565	5.710	0.08670	1483.4
10.7075	0.9817	-0.0237	0.98203	0.16270	34.829	5.744	0.08678	1486.1
10.6065	0.9818	-0.0204	0.98199	0.16436	35.059	5.773	0.08685	1488.4
10.5054	0.9818	-0.0170	0.98196	0.16603	35.255	5.797	0.08691	1490.4
10.4043	0.9818	-0.0136	0.98193	0.16770	35.417	5.817	0.08696	1492.0
10.3032	0.9819	-0.0103	0.98191	0.16937	35.544	5.833	0.08700	1493.3
10.2021	0.9819	-0.0069	0.98190	0.17107	35.637	5.845	0.08702	1494.2
10.1011	0.9819	-0.0034	0.98189	0.17279	35.695	5.852	0.08704	1494.8
10.0000	0.9819	0.0000	0.98188	0.17453	35.716	5.855	0.08705	1495.0

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.9157

FLOW PROPERTIES

SHOCK ANGLE=10.9757 ENTROPY=32.3144
GAMMA (AVG.)=1.3071 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9757	0.9817	-0.0128	0.98225	0.15819	38.811	5.809	0.08487	1637.5
10.8782	0.9818	-0.0295	0.98220	0.15984	39.185	5.852	0.08496	1641.2
10.7806	0.9818	-0.0262	0.98216	0.16147	39.517	5.889	0.08505	1644.4
10.6830	0.9818	-0.0229	0.98212	0.16309	39.810	5.923	0.08513	1647.3
10.5854	0.9819	-0.0197	0.98208	0.16470	40.064	5.952	0.08519	1649.8
10.4879	0.9819	-0.0164	0.98205	0.16631	40.280	5.976	0.08525	1651.8
10.3903	0.9819	-0.0132	0.98203	0.16793	40.459	5.997	0.08529	1653.6
10.2927	0.9820	-0.0099	0.98201	0.16955	40.600	6.013	0.08533	1654.9
10.1951	0.9820	-0.0066	0.98199	0.17119	40.703	6.024	0.08535	1655.9
10.0976	0.9820	-0.0033	0.98198	0.17285	40.767	6.031	0.08537	1656.5
10.0000	0.9820	0.0000	0.98198	0.17453	40.790	6.034	0.08537	1656.7

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=10.9090 ENTROPY=33.0360
GAMMA (AVG.)=1.2994 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9090	0.9819	-0.0306	0.98240	0.15926	52.497	6.188	0.08171	2079.3
10.8181	0.9820	-0.0275	0.98236	0.16080	52.968	6.230	0.08179	2083.6
10.7272	0.9820	-0.0245	0.98232	0.16233	53.388	6.268	0.08187	2087.4
10.6363	0.9821	-0.0214	0.98228	0.16384	53.758	6.302	0.08194	2090.7
10.5454	0.9821	-0.0184	0.98225	0.16535	54.079	6.331	0.08200	2093.5
10.4545	0.9821	-0.0153	0.98223	0.16685	54.353	6.355	0.08204	2096.0
10.3636	0.9821	-0.0123	0.98221	0.16836	54.579	6.376	0.08208	2098.0
10.2727	0.9821	-0.0092	0.98219	0.16988	54.757	6.392	0.08212	2099.6
10.1818	0.9822	-0.0062	0.98218	0.17141	54.887	6.403	0.08214	2100.7
10.0909	0.9822	-0.0031	0.98217	0.17296	54.967	6.411	0.08215	2101.4
10.0000	0.9822	-0.0000	0.98217	0.17453	54.996	6.413	0.08216	2101.7

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=10.8371 ENTROPY=33.7709
GAMMA (AVG.)=1.1651 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.8371	0.9822	-0.0283	0.98257	0.16035	68.272	6.647	0.07450	2511.8
10.7534	0.9822	-0.0254	0.98253	0.16180	68.845	6.693	0.07453	2515.0
10.6696	0.9822	-0.0226	0.98250	0.16322	69.354	6.734	0.07457	2518.2
10.5859	0.9823	-0.0198	0.98247	0.16464	69.801	6.771	0.07460	2520.5
10.5022	0.9823	-0.0170	0.98244	0.16604	70.189	6.802	0.07463	2522.7
10.4185	0.9823	-0.0141	0.98242	0.16744	70.518	6.828	0.07465	2524.6
10.3348	0.9823	-0.0113	0.98240	0.16884	70.789	6.850	0.07467	2526.2
10.2511	0.9823	-0.0085	0.98239	0.17024	71.003	6.867	0.07468	2527.5
10.1674	0.9824	-0.0057	0.98238	0.17166	71.158	6.880	0.07469	2528.3
10.0837	0.9824	-0.0029	0.98237	0.17309	71.254	6.887	0.07470	2528.9
10.0000	0.9824	0.0000	0.98237	0.17453	71.288	6.890	0.07470	2529.0

cone semi-angle=12.5

free stream conditions

MACH NR.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7890E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10290.1 FT./SEC. ENTHALPY=29.3590

FLOW PROPERTIES

SHOCK ANGLE=14.7993 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. 58.
CAMERA (AVG.)=1.3026

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.7993	0.9668	-0.0747	0.96970	0.18121	7.464	3.420	0.15202	534.8
14.5694	0.9671	-0.0672	0.96943	0.18496	7.589	3.462	0.15240	537.3
14.3395	0.9674	-0.0597	0.96919	0.18862	7.700	3.498	0.15273	539.4
14.1095	0.9676	-0.0523	0.96899	0.19223	7.797	3.530	0.15302	541.3
13.8796	0.9678	-0.0450	0.96881	0.19581	7.881	3.558	0.15326	542.9
13.6497	0.9679	-0.0376	0.96866	0.19940	7.954	3.581	0.15347	544.3
13.4197	0.9681	-0.0302	0.96853	0.20302	8.014	3.601	0.15365	545.4
13.1898	0.9682	-0.0228	0.96843	0.20668	8.062	3.617	0.15379	546.3
12.9599	0.9682	-0.0153	0.96836	0.21041	8.098	3.628	0.15389	547.0
12.7299	0.9683	-0.0077	0.96831	0.21423	8.120	3.635	0.15395	547.4
12.5000	0.9683	0.0000	0.96829	0.21817	8.128	3.638	0.15398	547.6

CBNE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=14.4495 ENTRPHY=29.9347

GAMMA (AVG.)=1.3692 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.4495	0.9684	-0.0638	0.97046	0.18640	10.343	3.911	0.13858	648.1
14.2546	0.9686	-0.0574	0.97026	0.18962	10.494	3.953	0.13886	650.7
14.0596	0.9687	-0.0510	0.97009	0.19278	10.628	3.989	0.13911	652.9
13.8647	0.9689	-0.0447	0.96996	0.19590	10.746	4.022	0.13933	654.8
13.6697	0.9690	-0.0384	0.96981	0.19899	10.848	4.050	0.13952	656.5
13.4748	0.9692	-0.0321	0.96970	0.20209	10.935	4.073	0.13968	657.9
13.2798	0.9693	-0.0258	0.96960	0.20521	11.008	4.093	0.13981	659.1
13.0849	0.9693	-0.0194	0.96953	0.20835	11.066	4.109	0.13992	660.0
12.8899	0.9694	-0.0130	0.96948	0.21155	11.108	4.120	0.13999	660.7
12.6949	0.9694	-0.0065	0.96944	0.21432	11.135	4.128	0.14004	661.1
12.5000	0.9694	0.0000	0.96943	0.21817	11.145	4.130	0.14006	661.3

CBNE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=14.2232 ENTRPHY=30.3318

GAMMA (AVG.)=1.3545 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.2232	0.9693	-0.0567	0.97100	0.18984	13.744	4.335	0.12923	777.0
14.0509	0.9695	-0.0510	0.97084	0.19271	13.925	4.377	0.12946	779.6
13.8786	0.9696	-0.0453	0.97070	0.19553	14.085	4.414	0.12966	782.0
13.7063	0.9698	-0.0397	0.97050	0.19832	14.225	4.447	0.12983	784.0
13.5339	0.9699	-0.0341	0.97038	0.20109	14.348	4.475	0.12998	785.8
13.3616	0.9700	-0.0285	0.97030	0.20386	14.452	4.499	0.13011	787.3
13.1893	0.9700	-0.0229	0.97032	0.20664	14.539	4.519	0.13022	788.5
13.0170	0.9701	-0.0172	0.97026	0.20945	14.608	4.535	0.13030	789.5
12.8446	0.9701	-0.0115	0.97022	0.21230	14.658	4.546	0.13036	790.2
12.6723	0.9702	-0.0058	0.97019	0.21520	14.690	4.554	0.13040	790.6
12.5000	0.9702	0.0000	0.97018	0.21817	14.701	4.556	0.13041	790.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=14.0649 ENTRØPY=30.7358
GAMMA (AVG.)=1.3408 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	R/P	MU	T (K)
14.0649	0.9700	-0.0516	0.97139	0.19229	17.668	4.705	0.12234	920.2
13.9084	0.9702	-0.0464	0.97126	0.19491	17.881	4.748	0.12254	923.0
13.7519	0.9703	-0.0413	0.97115	0.19749	18.070	4.785	0.12271	925.5
13.5954	0.9704	-0.0362	0.97105	0.20004	18.237	4.818	0.12285	927.7
13.4389	0.9705	-0.0310	0.97096	0.20258	18.381	4.846	0.12298	929.5
13.2824	0.9705	-0.0259	0.97089	0.20511	18.504	4.871	0.12309	931.1
13.1259	0.9706	-0.0208	0.97083	0.20766	18.607	4.891	0.12318	932.4
12.9695	0.9707	-0.0157	0.97078	0.21023	18.688	4.907	0.12325	933.4
12.8130	0.9707	-0.0105	0.97074	0.21283	18.747	4.918	0.12330	934.2
12.6565	0.9707	-0.0053	0.97072	0.21547	18.784	4.925	0.12333	934.6
12.5000	0.9707	0.0000	0.97071	0.21817	18.797	4.928	0.12334	934.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.9479 ENTRØPY=31.1386
GAMMA (AVG.)=1.3293 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	R/P	MU	T (K)
13.9479	0.9705	-0.0479	0.97169	0.19411	22.116	5.031	0.11709	1077.3
13.8031	0.9706	-0.0431	0.97158	0.19655	22.364	5.074	0.11726	1080.2
13.6583	0.9707	-0.0383	0.97148	0.19895	22.585	5.111	0.11741	1082.9
13.5135	0.9708	-0.0335	0.97140	0.20132	22.779	5.144	0.11754	1085.2
13.3687	0.9709	-0.0288	0.97132	0.20369	22.948	5.173	0.11765	1087.2
13.2239	0.9710	-0.0240	0.97126	0.20605	23.091	5.197	0.11774	1088.8
13.0791	0.9710	-0.0193	0.97121	0.20842	23.211	5.218	0.11782	1090.2
12.9344	0.9711	-0.0145	0.97116	0.21080	23.305	5.234	0.11788	1091.3
12.7896	0.9711	-0.0097	0.97113	0.21322	23.374	5.245	0.11793	1092.1
12.6448	0.9711	-0.0049	0.97111	0.21567	23.416	5.252	0.11795	1092.6
12.5000	0.9711	0.0000	0.97111	0.21817	23.432	5.255	0.11796	1092.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.8581 ENTROPY=31.5354
GAMMA (AVG.)=1.3200 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.8581	0.9709	-0.0450	0.97193	0.19553	27.087	5.320	0.11298	1247.9
13.7223	0.9710	-0.0405	0.97183	0.19782	27.374	5.362	0.11313	1251.1
13.5865	0.9711	-0.0360	0.97175	0.20008	27.629	5.400	0.11326	1253.9
13.4507	0.9712	-0.0315	0.97167	0.20232	27.853	5.433	0.11338	1256.4
13.3149	0.9712	-0.0271	0.97160	0.20454	28.048	5.462	0.11348	1258.5
13.1791	0.9713	-0.0226	0.97155	0.20677	28.214	5.486	0.11356	1260.3
13.0432	0.9713	-0.0181	0.97150	0.20900	28.351	5.507	0.11363	1261.8
12.9074	0.9714	-0.0136	0.97146	0.21125	28.459	5.523	0.11368	1263.0
12.7716	0.9714	-0.0091	0.97144	0.21352	28.539	5.534	0.11372	1263.8
12.6358	0.9714	-0.0046	0.97142	0.21582	28.588	5.541	0.11375	1264.3
12.5000	0.9714	-0.0000	0.97141	0.21817	28.606	5.544	0.11376	1264.5

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.7875 ENTROPY=31.9237
GAMMA (AVG.)=1.3128 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7875	0.9712	-0.0427	0.97213	0.19665	32.562	5.575	0.10969	1432.3
13.6587	0.9713	-0.0384	0.97204	0.19883	32.910	5.618	0.10983	1435.7
13.5300	0.9714	-0.0342	0.97196	0.20097	33.202	5.656	0.10995	1438.7
13.4012	0.9714	-0.0299	0.97189	0.20310	33.458	5.689	0.11006	1441.4
13.2725	0.9715	-0.0257	0.97183	0.20522	33.681	5.718	0.11015	1443.7
13.1437	0.9715	-0.0214	0.97178	0.20734	33.871	5.742	0.11022	1445.6
13.0150	0.9716	-0.0172	0.97173	0.20946	34.028	5.763	0.11029	1447.2
12.8862	0.9716	-0.0129	0.97170	0.21160	34.152	5.779	0.11034	1448.4
12.7575	0.9716	-0.0087	0.97168	0.21376	34.243	5.790	0.11037	1449.4
12.6287	0.9717	-0.0043	0.97166	0.21594	34.298	5.797	0.11040	1449.9
12.5000	0.9717	0.0000	0.97166	0.21817	34.319	5.800	0.11040	1450.1

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=13.7307 ENTRØPY=32.3019
GAMMA (AVG.)=1.3072 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.7307	0.9714	-0.0409	0.97228	0.19756	38.601	5.802	0.10703	1630.6
13.6077	0.9715	-0.0368	0.97220	0.19964	38.973	5.844	0.10716	1634.3
13.4846	0.9716	-0.0327	0.97213	0.20170	39.304	5.882	0.10727	1637.6
13.3615	0.9716	-0.0286	0.97206	0.20374	39.595	5.916	0.10736	1640.4
13.2384	0.9717	-0.0246	0.97201	0.20577	39.848	5.945	0.10745	1642.9
13.1154	0.9717	-0.0205	0.97196	0.20780	40.064	5.969	0.10752	1644.9
12.9923	0.9718	-0.0164	0.97192	0.20983	40.242	5.989	0.10758	1646.7
12.8692	0.9718	-0.0124	0.97189	0.21188	40.383	6.005	0.10763	1648.0
12.7461	0.9718	-0.0083	0.97187	0.21395	40.485	6.017	0.10766	1649.0
12.6231	0.9718	-0.0042	0.97186	0.21604	40.549	6.024	0.10768	1649.6
12.5000	0.9719	0.0000	0.97185	0.21817	40.572	6.027	0.10769	1649.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=13.6844 ENTRØPY=32.6693
GAMMA (AVG.)=1.3029 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.6844	0.9716	-0.0394	0.97241	0.19830	45.143	6.003	0.10484	1843.1
13.5660	0.9717	-0.0354	0.97234	0.20031	45.563	6.045	0.10496	1847.1
13.4476	0.9718	-0.0315	0.97227	0.20229	45.936	6.083	0.10506	1850.6
13.3291	0.9718	-0.0276	0.97221	0.20426	46.264	6.117	0.10515	1853.7
13.2107	0.9719	-0.0237	0.97216	0.20622	46.550	6.146	0.10523	1856.3
13.0922	0.9719	-0.0198	0.97211	0.20817	46.793	6.170	0.10530	1858.6
12.9738	0.9719	-0.0158	0.97208	0.21014	46.994	6.191	0.10535	1860.4
12.8553	0.9720	-0.0119	0.97205	0.21211	47.152	6.207	0.10540	1861.9
12.7369	0.9720	-0.0080	0.97203	0.21410	47.267	6.218	0.10543	1862.9
12.6184	0.9720	-0.0040	0.97202	0.21612	47.339	6.225	0.10545	1863.6
12.5000	0.9720	-0.0000	0.97201	0.21817	47.364	6.228	0.10546	1863.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.6462 ENTR0PY=33.0253

GAMMA (AVG.)=1.2995 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6462	0.9718	-0.0382	0.97252	0.19891	52.209	6.181	0.10302	2070.1
13.5316	0.9718	-0.0363	0.97245	0.20086	52.679	6.234	0.10313	2074.4
13.4170	0.9719	-0.0305	0.97238	0.20278	53.097	6.262	0.10323	2078.1
13.3023	0.9720	-0.0267	0.97233	0.20469	53.465	6.295	0.10332	2081.5
13.1877	0.9720	-0.0229	0.97228	0.20659	53.785	6.324	0.10339	2084.3
13.0731	0.9721	-0.0191	0.97224	0.20849	54.058	6.349	0.10345	2086.8
12.9585	0.9721	-0.0153	0.97221	0.21039	54.283	6.369	0.10351	2088.8
12.8439	0.9721	-0.0115	0.97218	0.21230	54.460	6.385	0.10355	2090.3
12.7292	0.9721	-0.0077	0.97216	0.21423	54.589	6.397	0.10358	2091.5
12.6146	0.9721	-0.0039	0.97215	0.21618	54.669	6.404	0.10360	2092.2
12.5000	0.9721	-0.0000	0.97214	0.21817	54.698	6.407	0.10360	2092.4

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.6142 ENTR0PY=33.3701

GAMMA (AVG.)=1.2969 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6142	0.9719	-0.0371	0.97261	0.19943	59.799	6.340	0.10149	2311.7
13.5028	0.9720	-0.0334	0.97254	0.20132	60.322	6.382	0.10160	2316.3
13.3914	0.9720	-0.0297	0.97248	0.20319	60.788	6.420	0.10169	2320.4
13.2800	0.9721	-0.0260	0.97243	0.20505	61.199	6.454	0.10177	2324.0
13.1685	0.9721	-0.0223	0.97239	0.20690	61.555	6.483	0.10184	2327.1
13.0571	0.9722	-0.0186	0.97235	0.20875	61.859	6.507	0.10190	2329.7
12.9457	0.9722	-0.0149	0.97231	0.21060	62.109	6.528	0.10195	2331.9
12.8343	0.9722	-0.0112	0.97229	0.21246	62.307	6.544	0.10199	2333.6
12.7228	0.9722	-0.0075	0.97227	0.21434	62.451	6.555	0.10202	2334.8
12.6114	0.9723	-0.0038	0.97226	0.21624	62.540	6.563	0.10204	2335.6
12.5000	0.9723	0.0000	0.97226	0.21817	62.572	6.565	0.10205	2335.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=13.4651 ENTROPY=34.2844
GAMMA (AVG.)=1.1388 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.
SHOCK ANGLE=13.3323 ENTROPY=35.1545
GAMMA (AVG.)=1.1309 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.4651	0.9725	-0.0323	0.97305	0.20176	81.071	7.199	0.08900	2712.9	13.3323	0.9730	-0.0280	0.97345	0.20397	105.673	8.249	0.08270	3003.7
13.3586	0.9726	-0.0291	0.97300	0.20343	81.694	7.246	0.08905	2715.3	13.2491	0.9731	-0.0251	0.97341	0.20541	106.368	8.297	0.08274	3005.6
13.2721	0.9726	-0.0258	0.97295	0.20508	82.246	7.289	0.08908	2717.5	13.1658	0.9731	-0.0223	0.97338	0.20684	106.985	8.338	0.08278	3007.7
13.1756	0.9726	-0.0226	0.97291	0.20672	82.732	7.326	0.08912	2719.3	13.0826	0.9732	-0.0195	0.97335	0.20825	107.528	8.375	0.08281	3009.3
13.0791	0.9727	-0.0194	0.97288	0.20834	83.153	7.358	0.08915	2720.9	12.9994	0.9732	-0.0168	0.97332	0.20966	107.999	8.407	0.08284	3010.7
12.9826	0.9727	-0.0162	0.97285	0.20996	83.510	7.386	0.08918	2722.1	12.9161	0.9732	-0.0140	0.97330	0.21106	108.399	8.433	0.08286	3012.2
12.8860	0.9727	-0.0130	0.97282	0.21158	83.805	7.408	0.08921	2723.2	12.8329	0.9732	-0.0112	0.97328	0.21247	108.728	8.456	0.08289	3013.0
12.7895	0.9728	-0.0097	0.97280	0.21321	84.036	7.426	0.08922	2724.3	12.7497	0.9732	-0.0084	0.97327	0.21388	108.987	8.474	0.08290	3013.7
12.6930	0.9728	-0.0065	0.97279	0.21484	84.204	7.439	0.08923	2724.8	12.6665	0.9732	-0.0056	0.97326	0.21529	109.174	8.486	0.08290	3014.6
12.5965	0.9728	-0.0033	0.97278	0.21649	84.308	7.446	0.08924	2725.4	12.5832	0.9732	-0.0028	0.97325	0.21672	109.289	8.494	0.08292	3014.8
12.5000	0.9728	-0.0000	0.97278	0.21817	84.345	7.449	0.08924	2725.5	12.5000	0.9732	-0.0000	0.97325	0.21816	109.331	8.496	0.08291	3015.0

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
 VELOCITY= 6177.7 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

CHECK ANGLE=19.0020 ENTROPY=29.1149

GAMMA (AVG.)=1.3949 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.00 DEG. K
 VELOCITY= 8236.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

CHECK ANGLE=17.9155 ENTROPY=29.4892

GAMMA (AVG.)=1.3851 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.9155	0.9515	-0.0931	0.95604	0.21518	6.913	3.305	0.18926	512.6	17.9155	0.9515	-0.0931	0.95604	0.21518	6.913	3.305	0.18926	512.6
17.6240	0.9519	-0.0837	0.95562	0.21991	7.033	3.346	0.18979	515.1	17.6240	0.9519	-0.0837	0.95562	0.21991	7.033	3.346	0.18979	515.1
17.3324	0.9523	-0.0744	0.95525	0.22452	7.139	3.383	0.19025	517.2	17.3324	0.9523	-0.0744	0.95525	0.22452	7.139	3.383	0.19025	517.2
17.0409	0.9527	-0.0652	0.95492	0.22906	7.232	3.414	0.19064	519.1	17.0409	0.9527	-0.0652	0.95492	0.22906	7.232	3.414	0.19064	519.1
16.7493	0.9530	-0.0561	0.95464	0.23357	7.313	3.442	0.19099	520.7	16.7493	0.9530	-0.0561	0.95464	0.23357	7.313	3.442	0.19099	520.7
16.4577	0.9533	-0.0469	0.95441	0.23809	7.383	3.466	0.19128	522.1	16.4577	0.9533	-0.0469	0.95441	0.23809	7.383	3.466	0.19128	522.1
16.1662	0.9535	-0.0377	0.95421	0.24265	7.441	3.485	0.19152	523.2	16.1662	0.9535	-0.0377	0.95421	0.24265	7.441	3.485	0.19152	523.2
15.8746	0.9536	-0.0284	0.95405	0.24726	7.487	3.501	0.19171	524.1	15.8746	0.9536	-0.0284	0.95405	0.24726	7.487	3.501	0.19171	524.1
15.5831	0.9537	-0.0191	0.95393	0.25198	7.521	3.512	0.19185	524.8	15.5831	0.9537	-0.0191	0.95393	0.25198	7.521	3.512	0.19185	524.8
15.2915	0.9538	-0.0096	0.95386	0.25681	7.543	3.520	0.19194	525.2	15.2915	0.9538	-0.0096	0.95386	0.25681	7.543	3.520	0.19194	525.2
15.0000	0.9538	0.0000	0.95383	0.26180	7.551	3.522	0.19187	525.4	15.0000	0.9538	0.0000	0.95383	0.26180	7.551	3.522	0.19187	525.4

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NØ.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTROPY=28.8157

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NØ.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=17.3718 ENTROPY=29.9272
GAMMA (AVG.)=1.3695 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

FLOW PROPERTIES

SHOCK ANGLE=17.0510 ENTROPY=30.4028
GAMMA (AVG.)=1.3519 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)	ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
17.3718	0.9544	-0.0765	0.95744	0.22320	10.282	3.902	0.16853	645.8	17.0510	0.9560	-0.0666	0.95835	0.22807	14.398	4.404	0.15516	801.2
17.1347	0.9547	-0.0688	0.95715	0.22711	10.433	3.944	0.16889	648.3	16.8459	0.9563	-0.0599	0.95814	0.23148	14.584	4.446	0.15544	803.9
16.8975	0.9549	-0.0612	0.95690	0.23094	10.566	3.981	0.16921	650.5	16.6408	0.9565	-0.0532	0.95794	0.23484	14.749	4.483	0.15569	806.2
16.6603	0.9552	-0.0536	0.95668	0.23472	10.683	4.013	0.16949	652.5	16.4357	0.9566	-0.0466	0.95777	0.23816	14.894	4.516	0.15590	808.3
16.4231	0.9554	-0.0460	0.95649	0.23849	10.785	4.041	0.16973	654.1	16.2306	0.9568	-0.0400	0.95763	0.24146	15.020	4.544	0.15609	810.1
16.1859	0.9556	-0.0385	0.95633	0.24225	10.872	4.065	0.16994	655.6	16.0255	0.9569	-0.0334	0.95751	0.24476	15.127	4.568	0.15625	811.6
15.9487	0.9557	-0.0309	0.95619	0.24604	10.945	4.084	0.17011	656.7	15.8204	0.9570	-0.0268	0.95740	0.24808	15.217	4.588	0.15638	812.8
15.7116	0.9558	-0.0233	0.95608	0.24987	11.002	4.100	0.17024	657.7	15.6153	0.9571	-0.0202	0.95732	0.25142	15.288	4.604	0.15648	813.8
15.4744	0.9559	-0.0156	0.95601	0.25375	11.045	4.112	0.17034	658.3	15.4102	0.9572	-0.0135	0.95726	0.25482	15.340	4.615	0.15655	814.5
15.2372	0.9559	-0.0079	0.95596	0.25773	11.071	4.119	0.17040	658.8	15.2051	0.9572	-0.0068	0.95722	0.25827	15.372	4.623	0.15660	815.0
15.0000	0.9559	0.0000	0.95594	0.26180	11.081	4.121	0.17042	658.9	15.0000	0.9572	0.0000	0.95721	0.26180	15.384	4.625	0.15662	815.1

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NØ.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.8394 ENTRØPY=30.8861
GAMMA (AVG.)=1.3363 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.8394	0.9571	-0.0600	0.95899	0.23134	19.262	4.831	0.14584	977.0
16.6555	0.9573	-0.0539	0.95882	0.23442	19.487	4.874	0.14607	979.9
16.4715	0.9575	-0.0479	0.95866	0.23746	19.688	4.911	0.14627	982.4
16.2876	0.9576	-0.0420	0.95852	0.24046	19.864	4.944	0.14645	984.6
16.1036	0.9577	-0.0360	0.95840	0.24345	20.017	4.973	0.14660	986.5
15.9197	0.9578	-0.0301	0.95830	0.24644	20.148	4.997	0.14673	988.2
15.7358	0.9579	-0.0241	0.95822	0.24944	20.256	5.017	0.14684	989.5
15.5518	0.9580	-0.0182	0.95815	0.25246	20.342	5.033	0.14692	990.5
15.3679	0.9580	-0.0122	0.95810	0.25552	20.405	5.045	0.14698	991.3
15.1839	0.9581	-0.0061	0.95807	0.25863	20.444	5.052	0.14702	991.8
15.0000	0.9581	0.0000	0.95806	0.26180	20.458	5.054	0.14704	992.0

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NØ.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.6896 ENTRØPY=31.3648
GAMMA (AVG.)=1.3238 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.6896	0.9579	-0.0552	0.95946	0.23369	24.874	5.199	0.13902	1172.5
16.5206	0.9580	-0.0497	0.95931	0.23653	25.144	5.242	0.13921	1175.6
16.3516	0.9582	-0.0442	0.95918	0.23934	25.383	5.280	0.13939	1178.3
16.1827	0.9583	-0.0387	0.95906	0.24211	25.594	5.313	0.13954	1180.7
16.0137	0.9584	-0.0332	0.95896	0.24487	25.777	5.341	0.13967	1182.7
15.8448	0.9585	-0.0277	0.95888	0.24764	25.934	5.366	0.13978	1184.5
15.6758	0.9585	-0.0222	0.95880	0.25041	26.063	5.386	0.13987	1185.9
15.5069	0.9586	-0.0167	0.95875	0.25320	26.165	5.402	0.13995	1187.1
15.3379	0.9586	-0.0112	0.95871	0.25602	26.240	5.414	0.14000	1187.9
15.1689	0.9587	-0.0056	0.95868	0.25889	26.286	5.421	0.14003	1188.4
15.0000	0.9587	0.0000	0.95867	0.26180	26.303	5.423	0.14004	1188.6

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.5785 ENTROPY=31.8327
GAMMA (AVG.)=1.3144 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5785	0.9584	-0.0517	0.95982	0.23544	31.235	5.517	0.13386	1387.4
16.4206	0.9586	-0.0465	0.95969	0.23811	31.553	5.560	0.13403	1390.8
16.2628	0.9587	-0.0413	0.95957	0.24074	31.836	5.598	0.13419	1393.8
16.1049	0.9588	-0.0362	0.95947	0.24335	32.084	5.631	0.13432	1396.4
15.9471	0.9589	-0.0311	0.95938	0.24594	32.300	5.660	0.13444	1398.6
15.7892	0.9590	-0.0259	0.95931	0.24853	32.484	5.685	0.13454	1400.5
15.6314	0.9590	-0.0208	0.95924	0.25113	32.637	5.705	0.13462	1402.1
15.4735	0.9591	-0.0156	0.95919	0.25375	32.757	5.721	0.13468	1403.3
15.3157	0.9591	-0.0105	0.95916	0.25639	32.845	5.732	0.13473	1404.2
15.1578	0.9591	-0.0053	0.95913	0.25907	32.899	5.740	0.13476	1404.8
15.0000	0.9591	0.0000	0.95913	0.26180	32.919	5.742	0.13477	1405.0

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 29592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.4935 ENTROPY=32.2867
GAMMA (AVG.)=1.3074 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4935	0.9588	-0.0490	0.96010	0.23680	38.346	5.793	0.12986	1622.3
16.3442	0.9590	-0.0441	0.95998	0.23933	38.716	5.836	0.13002	1625.9
16.1948	0.9591	-0.0392	0.95988	0.24182	39.045	5.874	0.13016	1629.2
16.0455	0.9592	-0.0343	0.95978	0.24430	39.235	5.907	0.13028	1632.0
15.8961	0.9593	-0.0294	0.95970	0.24676	39.587	5.936	0.13039	1634.5
15.7468	0.9593	-0.0246	0.95964	0.24922	39.801	5.960	0.13048	1636.5
15.5974	0.9594	-0.0197	0.95958	0.25169	39.979	5.981	0.13055	1638.3
15.4481	0.9594	-0.0148	0.95954	0.25417	40.118	5.997	0.13061	1639.6
15.2987	0.9595	-0.0099	0.95950	0.25668	40.220	6.008	0.13065	1640.6
15.1493	0.9595	-0.0050	0.95948	0.25922	40.284	6.016	0.13068	1641.2
15.0000	0.9595	0.0000	0.95948	0.26180	40.306	6.018	0.13069	1641.4

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRPHY=26.8157

FLOW PROPERTIES

SHOCK ANGLE=16.4270 ENTRPHY=32.7252
GAMMA (AVG.)=1.3023 STAG. ENTHALPHY=2.5919E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4270	0.9592	-0.0469	0.96032	0.23786	46.205	6.012	0.12670	1877.4
16.2843	0.9593	-0.0422	0.96022	0.24029	46.632	6.074	0.12685	1881.4
16.1416	0.9594	-0.0375	0.96012	0.24267	47.012	6.112	0.12698	1884.9
15.9989	0.9595	-0.0328	0.96003	0.24504	47.346	6.146	0.12709	1888.0
15.8562	0.9595	-0.0282	0.95996	0.24740	47.637	6.175	0.12719	1890.7
15.7135	0.9596	-0.0235	0.95990	0.24976	47.884	6.199	0.12727	1893.0
15.5708	0.9597	-0.0188	0.95985	0.25212	48.089	6.220	0.12734	1894.9
15.4281	0.9597	-0.0142	0.95981	0.25450	48.250	6.236	0.12739	1896.3
15.2854	0.9597	-0.0095	0.95978	0.25690	48.367	6.247	0.12743	1897.4
15.1427	0.9597	-0.0048	0.95976	0.25933	48.440	6.255	0.12746	1898.1
15.0000	0.9598	-0.0000	0.95975	0.26180	48.466	6.257	0.12747	1898.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.3740 ENTRPHY=33.1476
GAMMA (AVG.)=1.2986 STAG. ENTHALPHY=3.0796E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.3740	0.9594	-0.0452	0.96050	0.23872	54.813	6.239	0.12416	2153.2
16.2366	0.9595	-0.0406	0.96040	0.24105	55.301	6.282	0.12430	2157.6
16.0992	0.9596	-0.0361	0.96031	0.24335	55.736	6.320	0.12442	2161.5
15.9618	0.9597	-0.0316	0.96023	0.24564	56.116	6.353	0.12453	2164.9
15.8244	0.9598	-0.0271	0.96017	0.24792	56.451	6.382	0.12462	2167.8
15.6870	0.9598	-0.0227	0.96011	0.25019	56.734	6.407	0.12470	2170.3
15.5496	0.9599	-0.0182	0.96006	0.25247	56.968	6.427	0.12476	2172.4
15.4122	0.9599	-0.0137	0.96002	0.25477	57.152	6.443	0.12481	2174.0
15.2748	0.9600	-0.0091	0.96000	0.25708	57.286	6.455	0.12485	2175.2
15.1374	0.9600	-0.0046	0.95998	0.25942	57.369	6.462	0.12487	2175.9
15.0000	0.9600	-0.0000	0.95997	0.26180	57.399	6.464	0.12488	2176.1

CONE SEMI-ANGLE=15.0
 FREE STREAM CONDITIONS
 MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

CONE SEMI-ANGLE=15.0
 FREE STREAM CONDITIONS
 MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=16.2264
 ENTROPY=34.0190

SHOCK ANGLE=16.3310
 ENTROPY=33.5538

GAMMA (AVG.)=1.1481 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.2264	0.9602	-0.0406	0.96102	0.244099	74.266	6.890	0.11074	2618.9	15.9811	0.9603	-0.0324	0.96086	0.24521	75.397	6.980	0.11086	2623.7
16.1037	0.9602	-0.0365	0.96094	0.24311	74.865	6.938	0.11081	2621.5	15.8584	0.9604	-0.0283	0.96080	0.24728	75.864	7.017	0.11090	2625.6
15.7358	0.9604	-0.0243	0.96075	0.24934	76.269	7.049	0.11095	2627.5	15.6132	0.9605	-0.0203	0.96076	0.25139	76.613	7.077	0.11099	2628.7
15.4905	0.9605	-0.0163	0.96066	0.25344	76.897	7.099	0.11102	2630.1	15.3679	0.9606	-0.0122	0.96063	0.25550	77.120	7.117	0.11103	2630.9
15.2453	0.9606	-0.0082	0.96061	0.25758	77.282	7.130	0.11105	2631.7	15.1226	0.9606	-0.0041	0.96059	0.25968	77.382	7.137	0.11106	2632.1
15.0000	0.9606	-0.0000	0.96059	0.26180	77.418	7.141	0.11106	2632.1									

GAMMA (AVG.)=1.2958 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.3310	0.9597	-0.0438	0.96065	0.23941	64.170	6.419	0.12209	2450.1	16.1979	0.9597	-0.0394	0.96056	0.24167	64.724	6.462	0.12223	2454.9
16.0648	0.9598	-0.0350	0.96047	0.24391	65.217	6.499	0.12234	2459.2	15.9317	0.9599	-0.0307	0.96040	0.24613	65.652	6.533	0.12244	2462.9
15.7986	0.9600	-0.0263	0.96033	0.24834	66.029	6.562	0.12253	2466.1	15.6655	0.9600	-0.0220	0.96028	0.25054	66.351	6.586	0.12260	2468.9
15.5324	0.9601	-0.0176	0.96023	0.25276	66.616	6.607	0.12266	2471.1	15.3993	0.9601	-0.0132	0.96020	0.25498	66.825	6.623	0.12271	2472.9
15.2862	0.9601	-0.0089	0.96017	0.25723	66.977	6.634	0.12275	2474.2	15.1331	0.9601	-0.0044	0.96016	0.25950	67.071	6.642	0.12277	2475.0
15.0000	0.9602	0.0000	0.96015	0.26180	67.105	6.644	0.12278	2475.2									

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=16.1368 ENTRØPY=34.4373
GAMMA (AVG.)=1.1352 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.1368	0.9606	-0.0376	0.96134	0.24247	85.146	7.383	0.10624	2765.4
16.0231	0.9607	-0.0338	0.96127	0.24444	85.781	7.430	0.10631	2767.8
15.9094	0.9607	-0.0301	0.96120	0.24638	86.345	7.472	0.10636	2770.1
15.7958	0.9608	-0.0263	0.96115	0.24831	86.841	7.510	0.10640	2771.8
15.6821	0.9608	-0.0226	0.96110	0.25022	87.271	7.542	0.10644	2773.4
15.5684	0.9609	-0.0188	0.96106	0.25213	87.636	7.569	0.10647	2774.7
15.4547	0.9609	-0.0151	0.96103	0.25404	87.936	7.591	0.10650	2776.1
15.3410	0.9609	-0.0113	0.96100	0.25596	88.172	7.609	0.10653	2776.8
15.2273	0.9610	-0.0076	0.96098	0.25789	88.344	7.622	0.10654	2777.4
15.1137	0.9610	-0.0038	0.96097	0.25983	88.449	7.629	0.10655	2777.8
15.0000	0.9610	0.0000	0.96097	0.26180	88.487	7.632	0.10655	2777.9

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=15.9594 ENTRØPY=35.4766
GAMMA (AVG.)=1.1346 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
15.9594	0.9615	-0.0319	0.96198	0.24543	115.635	8.632	0.09800	3106.6
15.8634	0.9615	-0.0286	0.96193	0.24709	116.356	8.679	0.09805	3108.7
15.7675	0.9616	-0.0255	0.96189	0.24873	116.998	8.719	0.09810	3110.9
15.6715	0.9616	-0.0223	0.96185	0.25036	117.563	8.757	0.09814	3112.0
15.5756	0.9616	-0.0191	0.96181	0.25198	118.053	8.788	0.09817	3113.8
15.4797	0.9617	-0.0159	0.96179	0.25361	118.468	8.815	0.09820	3115.0
15.3837	0.9617	-0.0128	0.96176	0.25523	118.811	8.838	0.09823	3115.7
15.2878	0.9617	-0.0096	0.96174	0.25685	119.080	8.855	0.09824	3116.6
15.1919	0.9617	-0.0064	0.96173	0.25849	119.274	8.867	0.09825	3117.2
15.0959	0.9617	-0.0032	0.96172	0.26013	119.394	8.875	0.09827	3117.6
15.0000	0.9617	-0.0000	0.96172	0.26180	119.437	8.878	0.09827	3117.6

CONE SEMI-ANGLE=15.0
 FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41184.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=15.8419 SHOCK ANGLE=15.8419 ENTRØPY=36.5198
 GAMMA (AVG.)=1.1650 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.8419	0.9620	-0.0280	0.96243	0.24741	150.810	9.753	0.09330	3449.5
15.7577	0.9621	-0.0252	0.96239	0.24886	151.629	9.799	0.09334	3451.3
15.6735	0.9621	-0.0224	0.96235	0.25030	152.359	9.838	0.09339	3453.6
15.5893	0.9621	-0.0196	0.96232	0.25173	153.002	9.874	0.09342	3455.4
15.5052	0.9621	-0.0168	0.96229	0.25316	153.560	9.905	0.09346	3456.6
15.4210	0.9622	-0.0140	0.96227	0.25459	154.033	9.931	0.09349	3458.2
15.3368	0.9622	-0.0112	0.96225	0.25602	154.424	9.953	0.09351	3459.0
15.2526	0.9622	-0.0084	0.96224	0.25745	154.730	9.969	0.09353	3460.0
15.1684	0.9622	-0.0056	0.96223	0.25889	154.951	9.982	0.09354	3460.5
15.0842	0.9622	-0.0028	0.96222	0.26033	155.088	9.989	0.09355	3461.1
15.0000	0.9622	-0.0000	0.96222	0.26179	155.136	9.991	0.09355	3461.2

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.4892 ENTRØPY=29.2814
GAMMA (AVG.)=1.3910 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=20.4896 ENTRØPY=29.7660
GAMMA (AVG.)=1.3754 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)	ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.4892	0.9305	-0.1239	0.93868	0.24269	5.476	2.957	0.24329	453.9	20.4896	0.9367	-0.0945	0.94148	0.25708	9.015	3.705	0.20682	596.4
21.0903	0.9313	-0.1114	0.93791	0.24905	5.583	2.998	0.24415	456.3	20.1906	0.9372	-0.0850	0.94103	0.26197	9.154	3.746	0.20733	598.9
20.6914	0.9320	-0.0991	0.93725	0.25522	5.676	3.034	0.24489	458.5	19.8917	0.9376	-0.0756	0.94064	0.26676	9.277	3.783	0.20778	601.1
20.2925	0.9326	-0.0869	0.93668	0.26130	5.759	3.066	0.24553	460.3	19.5927	0.9380	-0.0662	0.94030	0.27149	9.386	3.815	0.20818	603.0
19.8935	0.9332	-0.0747	0.93618	0.26733	5.830	3.093	0.24609	461.9	19.2937	0.9383	-0.0569	0.94000	0.27619	9.480	3.843	0.20851	604.6
19.4946	0.9337	-0.0625	0.93575	0.27338	5.892	3.117	0.24656	463.3	18.9948	0.9385	-0.0476	0.93975	0.28090	9.560	3.866	0.20880	606.0
19.0957	0.9340	-0.0503	0.93540	0.27949	5.943	3.136	0.24695	464.4	18.6958	0.9388	-0.0382	0.93955	0.28564	9.627	3.886	0.20904	607.2
18.6968	0.9343	-0.0380	0.93512	0.28571	5.985	3.152	0.24726	465.3	18.3969	0.9389	-0.0288	0.93938	0.29043	9.681	3.902	0.20923	608.1
18.2978	0.9346	-0.0255	0.93491	0.29207	6.015	3.163	0.24749	466.0	18.0979	0.9391	-0.0193	0.93926	0.29531	9.720	3.913	0.20937	608.8
17.8989	0.9347	-0.0129	0.93477	0.29863	6.035	3.171	0.24764	466.4	17.7989	0.9391	-0.0097	0.93918	0.30030	9.745	3.920	0.20945	609.2
17.5000	0.9347	0.0000	0.93472	0.30543	6.042	3.173	0.24769	466.6	17.5000	0.9391	0.0000	0.93915	0.30543	9.754	3.923	0.20948	609.3

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.9828 ENTRPHY=30.3117
GAMMA (AVG.)=1.3552 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.9828	0.9398	-0.0792	0.94312	0.26470	13.561	4.315	0.18605	770.2
19.7346	0.9401	-0.0712	0.94280	0.26882	13.740	4.357	0.18642	772.8
19.4863	0.9404	-0.0633	0.94253	0.27287	13.899	4.394	0.18674	775.1
19.2380	0.9407	-0.0555	0.94229	0.27687	14.038	4.427	0.18702	777.2
18.9897	0.9409	-0.0476	0.94208	0.28086	14.159	4.455	0.18726	778.9
18.7414	0.9411	-0.0398	0.94190	0.28484	14.263	4.479	0.18747	780.4
18.4931	0.9412	-0.0319	0.94175	0.28884	14.349	4.499	0.18764	781.6
18.2448	0.9413	-0.0241	0.94163	0.29289	14.417	4.515	0.18777	782.6
17.9966	0.9414	-0.0161	0.94155	0.29699	14.467	4.526	0.18787	783.3
17.7483	0.9415	-0.0081	0.94149	0.30116	14.498	4.534	0.18793	783.8
17.5000	0.9415	0.0000	0.94147	0.30543	14.510	4.536	0.18795	783.9

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.6780 ENTRPHY=30.8728
GAMMA (AVG.)=1.3366 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.6780	0.9416	-0.0699	0.94418	0.26939	19.117	4.821	0.17263	971.9
19.4602	0.9418	-0.0628	0.94394	0.27304	19.342	4.863	0.17292	974.8
19.2424	0.9421	-0.0558	0.94372	0.27663	19.541	4.900	0.17317	977.3
19.0246	0.9423	-0.0489	0.94353	0.28018	19.716	4.933	0.17339	979.5
18.8068	0.9424	-0.0420	0.94337	0.28372	19.869	4.962	0.17358	981.4
18.5890	0.9426	-0.0351	0.94323	0.28725	19.999	4.986	0.17375	983.0
18.3712	0.9427	-0.0281	0.94311	0.29080	20.107	5.006	0.17388	984.4
18.1534	0.9428	-0.0212	0.94302	0.29438	20.192	5.022	0.17398	985.4
17.9356	0.9429	-0.0142	0.94296	0.29800	20.254	5.034	0.17406	986.2
17.7178	0.9429	-0.0071	0.94291	0.30168	20.293	5.041	0.17411	986.6
17.5000	0.9429	0.0000	0.94290	0.30543	20.307	5.043	0.17412	986.8

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.4747 ENTRØPY=31.4283
GAMMA (AVG.)=1.3223 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.4747	0.9428	-0.0636	0.94493	0.27258	25.684	5.245	0.16332	1200.2
19.2773	0.9430	-0.0572	0.94472	0.27590	25.960	5.287	0.16357	1203.3
19.0798	0.9432	-0.0508	0.94454	0.27917	26.205	5.325	0.16378	1206.1
18.8823	0.9433	-0.0445	0.94439	0.28242	26.421	5.358	0.16396	1208.5
18.6848	0.9435	-0.0382	0.94425	0.28565	26.608	5.387	0.16412	1210.6
18.4874	0.9436	-0.0319	0.94413	0.28888	26.768	5.411	0.16426	1212.3
18.2899	0.9437	-0.0256	0.94404	0.29212	26.900	5.431	0.16437	1213.8
18.0924	0.9438	-0.0192	0.94396	0.29538	27.005	5.447	0.16446	1214.9
17.8949	0.9438	-0.0129	0.94391	0.29868	27.081	5.459	0.16452	1215.8
17.6975	0.9439	-0.0065	0.94387	0.30202	27.128	5.466	0.16456	1216.3
17.5000	0.9439	0.0000	0.94386	0.30543	27.146	5.469	0.16457	1216.5

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.3306 ENTRØPY=31.9687
GAMMA (AVG.)=1.3121 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.3306	0.9436	-0.0591	0.94547	0.27486	33.262	5.603	0.15658	1454.9
19.1475	0.9438	-0.0531	0.94529	0.27795	33.595	5.646	0.15679	1458.3
18.9645	0.9440	-0.0472	0.94514	0.28100	33.891	5.684	0.15697	1461.4
18.7814	0.9441	-0.0414	0.94500	0.28402	34.151	5.717	0.15713	1464.0
18.5983	0.9442	-0.0355	0.94488	0.28703	34.378	5.746	0.15727	1466.3
18.4153	0.9443	-0.0296	0.94478	0.29004	34.570	5.770	0.15739	1468.3
18.2322	0.9444	-0.0238	0.94470	0.29306	34.730	5.791	0.15749	1469.9
18.0492	0.9445	-0.0179	0.94464	0.29609	34.856	5.807	0.15757	1471.1
17.8661	0.9445	-0.0120	0.94459	0.29916	34.948	5.818	0.15762	1472.1
17.6830	0.9445	-0.0060	0.94456	0.30227	35.004	5.825	0.15766	1472.6
17.5000	0.9445	0.0000	0.94455	0.30543	35.025	5.828	0.15767	1472.8

CONE SEMI-ANGLE=17.5
 FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.2242 ENTROPY=32.4895
 GAMMA (AVG.)=1.3049 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.2242	0.9442	-0.0557	0.94588	0.27655	41.851	5.906	0.15153	1736.5
19.0918	0.9444	-0.0501	0.94572	0.27947	42.247	5.949	0.15172	1740.3
18.8793	0.9445	-0.0446	0.94558	0.28235	42.599	5.987	0.15189	1743.7
18.7069	0.9447	-0.0390	0.94546	0.28521	42.908	6.021	0.15203	1746.7
18.5345	0.9448	-0.0335	0.94536	0.28806	43.178	6.049	0.15216	1749.2
18.3621	0.9449	-0.0280	0.94527	0.29090	43.407	6.074	0.15226	1751.4
18.1897	0.9449	-0.0224	0.94520	0.29375	43.596	6.094	0.15235	1753.2
18.0172	0.9450	-0.0169	0.94514	0.29662	43.746	6.110	0.15242	1754.6
17.8448	0.9450	-0.0113	0.94509	0.29952	43.855	6.122	0.15247	1755.6
17.6724	0.9451	-0.0057	0.94507	0.30245	43.922	6.129	0.15250	1756.2
17.5000	0.9451	0.0000	0.94506	0.30543	43.946	6.132	0.15251	1756.5

CONE SEMI-ANGLE=17.5
 FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.1433 ENTROPY=32.9889
 GAMMA (AVG.)=1.2999 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.1433	0.9447	-0.0532	0.94620	0.27785	51.451	6.163	0.14766	2045.8
18.9790	0.9448	-0.0479	0.94605	0.28064	51.916	6.206	0.14783	2050.1
18.8146	0.9450	-0.0425	0.94593	0.28339	52.329	6.244	0.14799	2053.8
18.6503	0.9451	-0.0372	0.94582	0.28612	52.693	6.278	0.14812	2057.1
18.4860	0.9452	-0.0320	0.94572	0.28884	53.009	6.307	0.14824	2060.0
18.3216	0.9453	-0.0267	0.94564	0.29156	53.278	6.331	0.14833	2062.4
18.1573	0.9453	-0.0214	0.94557	0.29429	53.500	6.352	0.14841	2064.3
17.9930	0.9454	-0.0161	0.94552	0.29703	53.676	6.368	0.14848	2065.9
17.8287	0.9454	-0.0108	0.94548	0.29979	53.803	6.379	0.14852	2067.0
17.6643	0.9454	-0.0054	0.94546	0.30259	53.882	6.386	0.14855	2067.7
17.5000	0.9454	0.0000	0.94545	0.30543	53.911	6.389	0.14856	2068.0

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=19.0804 ENTROPY=33.4664
GAMMA (AVG.)=1.2963 STAG. ENTHALPY=2.5919E 06 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

19.0804	0.9451	-0.0512	0.94645	0.27887	62.062	6.381	0.14463	2383.4
18.9224	0.9452	-0.0461	0.94631	0.28155	62.601	6.424	0.14479	2388.1
18.7643	0.9453	-0.0410	0.94620	0.28420	63.081	6.462	0.14493	2392.3
18.6063	0.9454	-0.0359	0.94609	0.28683	63.504	6.496	0.14506	2396.0
18.4483	0.9455	-0.0308	0.94601	0.28945	63.872	6.525	0.14517	2399.1
18.2902	0.9456	-0.0257	0.94593	0.29207	64.184	6.549	0.14526	2401.8
18.1322	0.9456	-0.0206	0.94587	0.29470	64.442	6.570	0.14533	2404.0
17.9741	0.9457	-0.0155	0.94582	0.29734	64.646	6.586	0.14539	2405.8
17.8161	0.9457	-0.0104	0.94578	0.30000	64.794	6.597	0.14544	2407.0
17.6580	0.9457	-0.0052	0.94576	0.30270	64.886	6.604	0.14546	2407.8
17.5000	0.9458	0.0000	0.94575	0.30543	64.919	6.607	0.14547	2408.1

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=1.9526 ENTROPY=33.9951
GAMMA (AVG.)=1.1491 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

18.9526	0.9458	-0.0473	0.94697	0.28079	73.671	6.864	0.13100	2610.1
18.8074	0.9459	-0.0425	0.94685	0.28331	74.268	6.912	0.13108	2612.4
18.6621	0.9460	-0.0378	0.94675	0.28578	74.798	6.954	0.13115	2614.7
18.5169	0.9461	-0.0331	0.94667	0.28823	75.263	6.992	0.13122	2616.5
18.3716	0.9462	-0.0284	0.94659	0.29067	75.667	7.023	0.13127	2618.6
18.2263	0.9462	-0.0237	0.94653	0.29310	76.010	7.050	0.13131	2620.1
18.0811	0.9463	-0.0190	0.94647	0.29553	76.292	7.073	0.13135	2621.1
17.9358	0.9463	-0.0143	0.94643	0.29797	76.515	7.090	0.13139	2622.1
17.7905	0.9464	-0.0095	0.94640	0.30043	76.676	7.103	0.13140	2622.9
17.6453	0.9464	-0.0048	0.94638	0.30291	76.776	7.111	0.13141	2623.3
17.5000	0.9464	-0.0000	0.94637	0.30543	76.812	7.114	0.13142	2623.4

CRNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=10.8301 SHOCK ANGLE=10.8301 ENTRPHY=34.4810
GAMMA (AVG.)=1.1345 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
18.8301	0.9465	-0.0434	0.94747	0.28282	86.332	7.435	0.12485	2780.4
18.6971	0.9466	-0.0390	0.94738	0.28512	86.971	7.482	0.12492	2783.0
18.5641	0.9467	-0.0347	0.94729	0.28739	87.538	7.525	0.12498	2785.0
18.4311	0.9467	-0.0303	0.94722	0.28964	88.037	7.562	0.12504	2786.9
18.2981	0.9469	-0.0260	0.94715	0.29188	88.469	7.594	0.12509	2788.4
18.1651	0.9469	-0.0217	0.94710	0.29412	88.836	7.622	0.12513	2789.5
18.0320	0.9469	-0.0174	0.94705	0.29635	89.138	7.644	0.12516	2790.7
17.8990	0.9469	-0.0131	0.94702	0.29860	89.376	7.662	0.12519	2791.6
17.7660	0.9470	-0.0087	0.94699	0.30085	89.548	7.674	0.12520	2792.3
17.6330	0.9470	-0.0044	0.94698	0.30313	89.654	7.682	0.12522	2792.7
17.5000	0.9470	0.0000	0.94697	0.30543	89.693	7.685	0.12523	2792.7

CRNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=18.7247 SHOCK ANGLE=18.7247 ENTRPHY=34.9645
GAMMA (AVG.)=1.1302 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
18.7247	0.9471	-0.0400	0.94792	0.28457	100.009	8.020	0.11982	2942.3
18.6022	0.9472	-0.0360	0.94783	0.28669	100.687	8.067	0.11989	2944.4
18.4798	0.9472	-0.0320	0.94776	0.28878	101.290	8.108	0.11995	2946.7
18.3573	0.9473	-0.0280	0.94770	0.29086	101.821	8.146	0.11999	2948.0
18.2348	0.9473	-0.0240	0.94764	0.29293	102.281	8.177	0.12004	2949.8
18.1123	0.9474	-0.0200	0.94760	0.29497	102.671	8.205	0.12008	2950.9
17.9899	0.9474	-0.0160	0.94756	0.29706	102.993	8.227	0.12011	2952.0
17.8674	0.9475	-0.0120	0.94753	0.29913	103.245	8.244	0.12013	2952.8
17.7449	0.9475	-0.0081	0.94751	0.30121	103.428	8.257	0.12015	2953.4
17.6225	0.9475	-0.0040	0.94749	0.30331	103.541	8.265	0.12016	2953.7
17.5000	0.9475	0.0000	0.94749	0.30543	103.581	8.268	0.12017	2953.8

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=18.6359 ENTROPY=35.4469
GAMMA (AVG.)=1.1340 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RH0 MU T (K)

18.6359	0.9476	-0.0372	0.94830	0.28605	114.699	8.598	0.11579	3097.1
18.5223	0.9476	-0.0334	0.94823	0.28802	115.418	8.644	0.11586	3099.3
18.4088	0.9477	-0.0297	0.94816	0.28996	116.057	8.685	0.11592	3101.1
18.2952	0.9478	-0.0260	0.94811	0.29190	116.620	8.722	0.11596	3102.7
18.1816	0.9478	-0.0223	0.94806	0.29382	117.108	8.753	0.11601	3104.3
18.0680	0.9478	-0.0186	0.94802	0.29573	117.522	8.781	0.11604	3105.4
17.9544	0.9479	-0.0149	0.94799	0.29765	117.864	8.803	0.11607	3106.3
17.8408	0.9479	-0.0112	0.94796	0.29958	118.131	8.819	0.11610	3107.3
17.7272	0.9479	-0.0075	0.94794	0.30151	118.325	8.832	0.11611	3107.7
17.6136	0.9479	-0.0037	0.94793	0.30346	118.445	8.840	0.11612	3108.3
17.5000	0.9479	0.0000	0.94793	0.30543	118.488	8.843	0.11613	3108.3

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=18.4786 ENTROPY=36.6598
GAMMA (AVG.)=1.1707 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RH0 MU T (K)

18.4786	0.9484	-0.0321	0.94898	0.28871	155.850	9.882	0.10953	3499.3
18.3807	0.9485	-0.0289	0.94893	0.29040	156.684	9.926	0.10959	3501.7
18.2829	0.9485	-0.0256	0.94889	0.29207	157.427	9.966	0.10964	3503.6
18.1850	0.9486	-0.0224	0.94884	0.29374	158.082	10.002	0.10970	3505.3
18.0872	0.9486	-0.0192	0.94881	0.29540	158.650	10.033	0.10973	3506.8
17.9893	0.9486	-0.0161	0.94878	0.29705	159.132	10.058	0.10976	3508.4
17.8914	0.9487	-0.0129	0.94875	0.29871	159.530	10.080	0.10979	3509.4
17.7936	0.9487	-0.0097	0.94874	0.30038	159.842	10.096	0.10981	3510.4
17.6957	0.9487	-0.0065	0.94872	0.30205	160.067	10.109	0.10983	3510.7
17.5979	0.9487	-0.0032	0.94871	0.30373	160.206	10.116	0.10984	3511.3
17.5000	0.9487	-0.0000	0.94871	0.30543	160.256	10.118	0.10984	3511.5

CONF SP41-AUG87-17.5
 FUEL STREAM CONDITIONS

PACH 0.4460... ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0160E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
 VELOCITY= 411.44 FT./SEC. ENTROPY=24.9157

FLOW PROPERTIES

MASS FRACTION=0.12105 STAG. ENTHALPY=0.5073E 08 FT. 50./SLC. 50.
 MAJOR ELEMENT=4107 ENTROPY=37.5068

ETA	VR	ZI	V	THETA	P	RHO	MU	T (K)
0.4107	0.4645	0.0299	0.96978	0.24987	203.309	10.577	0.10796	4062.1
0.4107	0.4645	0.0299	0.96926	0.25143	206.315	10.620	0.10803	4065.2
0.4107	0.4645	0.0299	0.96920	0.25299	209.213	10.657	0.10808	4068.4
0.4107	0.4645	0.0299	0.96917	0.25434	209.006	10.630	0.10813	4071.3
0.4107	0.4645	0.0299	0.96916	0.25609	206.694	10.718	0.10817	4073.6
0.4107	0.4645	0.0299	0.96911	0.25763	207.278	10.743	0.10821	4075.6
0.4107	0.4645	0.0299	0.96909	0.25917	207.759	10.763	0.10824	4077.2
0.4107	0.4645	0.0299	0.96907	0.30071	209.136	10.779	0.10826	4078.2
0.4107	0.4645	0.0299	0.96906	0.30226	208.410	10.790	0.10826	4079.4
0.4107	0.4645	0.0299	0.96905	0.30365	208.577	10.796	0.10829	4080.1
0.4107	0.4645	0.0299	0.96905	0.30541	208.637	10.800	0.10829	4079.9

CON. 451-260E-05

MACH 6.00
ALTITUDE=125000.0 FEET
PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT.
TEMPERATURE= 245.08 DEG. K
ENTROPY=28.8157

VELOCITY= 6177.7 FT./SEC.
ENTROPY=28.8157

FLUM PROPERTIES

SMOKE ANGLE=24.0454
ENTROPY=29.4703

GAMMA (AVG.)=1.3655
STAG. ENTHALPY=2.1731E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	F (K)
24.0454	0.9132	-0.1240	0.92159	0.28466	6.820	3.285	0.26230	508.9
23.6409	0.9140	-0.1116	0.92081	0.29116	6.939	3.326	0.26315	511.3
23.2363	0.9148	-0.0992	0.92012	0.29751	7.044	3.362	0.26389	513.5
22.8318	0.9194	-0.0870	0.91953	0.30377	7.137	3.3	0.26454	515.3
22.4272	0.9160	-0.0748	0.91902	0.31000	7.217	3.422	0.26509	516.9
22.0227	0.9164	-0.0625	0.91858	0.31624	7.286	3.495	0.26556	518.3
21.6182	0.9168	-0.0503	0.91821	0.32253	7.343	3.465	0.26596	519.4
21.2136	0.9171	-0.0379	0.91792	0.32892	7.389	3.480	0.26627	520.3
20.8091	0.9174	-0.0255	0.91771	0.33545	7.423	3.492	0.26650	521.0
20.4045	0.9175	-0.0128	0.91757	0.34215	7.445	3.499	0.26664	521.4
20.0000	0.9175	0.0000	0.91752	0.34907	7.453	3.502	0.26669	521.6

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.1050 ENTRPHY=30.0629
GAMMA (AVG.)=1.3644 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=22.6197 ENTRPHY=30.6979
GAMMA (AVG.)=1.3420 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.1050	0.9198	-0.0987	0.92485	0.29846	11.396	4.056	0.22562	688.5	22.6197	0.9231	-0.0823	0.92673	0.30585	17.278	4.673	0.20462	906.2
22.7945	0.9203	-0.0870	0.92437	0.30358	11.556	4.098	0.22614	691.1	22.3577	0.9234	-0.0740	0.92539	0.31022	17.487	4.715	0.20500	909.0
22.4840	0.9207	-0.0774	0.92395	0.30859	11.698	4.135	0.22660	693.4	22.0958	0.9237	-0.0658	0.92608	0.31452	17.673	4.752	0.20533	911.4
22.1735	0.9211	-0.0678	0.92359	0.31355	11.823	4.167	0.22699	695.3	21.8338	0.9240	-0.0576	0.92581	0.31877	17.837	4.785	0.20562	913.6
21.8630	0.9214	-0.0582	0.92327	0.31849	11.932	4.195	0.22734	697.0	21.5718	0.9243	-0.0495	0.92558	0.32301	17.979	4.813	0.20587	915.4
21.5525	0.9217	-0.0486	0.92300	0.32343	12.024	4.219	0.22763	698.5	21.3098	0.9245	-0.0413	0.92539	0.32724	18.101	4.838	0.20608	917.0
21.2420	0.9219	-0.0391	0.92278	0.32840	12.102	4.239	0.22787	699.7	21.0479	0.9246	-0.0332	0.92522	0.33149	18.202	4.858	0.20626	918.3
20.9315	0.9221	-0.0294	0.92260	0.33342	12.163	4.255	0.22806	700.6	20.7859	0.9248	-0.0250	0.92510	0.33579	18.281	4.874	0.20640	919.3
20.6210	0.9223	-0.0197	0.92247	0.33852	12.208	4.266	0.22820	701.3	20.5239	0.9249	-0.0167	0.92500	0.34013	18.340	4.885	0.20650	920.1
20.3105	0.9223	-0.0099	0.92239	0.34373	12.236	4.273	0.22829	701.7	20.2620	0.9249	-0.0064	0.92494	0.34455	18.376	4.892	0.20656	920.5
20.0000	0.9224	0.0000	0.92235	0.34907	12.246	4.276	0.22832	701.9	20.0000	0.9249	0.0000	0.92492	0.34907	18.389	4.895	0.20658	920.7

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=22.3239 ENTROPY=31.3324
GAMMA (AVG.)=1.3245 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.3239	0.9250	-0.0734	0.92795	0.31046	24.467	5.176	0.19111	1158.5
22.0915	0.9253	-0.0660	0.92768	0.31436	24.734	5.218	0.19141	1161.6
21.8591	0.9256	-0.0587	0.92743	0.31821	24.970	5.256	0.19167	1164.3
21.6267	0.9258	-0.0514	0.92722	0.32202	25.179	5.289	0.19191	1166.7
21.3943	0.9260	-0.0441	0.92704	0.32581	25.360	5.318	0.19211	1168.7
21.1619	0.9261	-0.0368	0.92688	0.32960	25.514	5.342	0.19228	1170.5
20.9296	0.9263	-0.0295	0.92675	0.33341	25.642	5.362	0.19242	1171.9
20.6972	0.9264	-0.0222	0.92665	0.33724	25.743	5.378	0.19253	1173.0
20.4648	0.9265	-0.0149	0.92657	0.34112	25.817	5.390	0.19261	1173.8
20.2324	0.9265	-0.0075	0.92653	0.34506	25.862	5.397	0.19266	1174.4
20.0000	0.9265	0.0000	0.92651	0.34907	25.879	5.400	0.19268	1174.5

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=22.1261 ENTROPY=31.9491
GAMMA (AVG.)=1.3124 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.1261	0.9264	-0.0674	0.92880	0.31358	32.964	5.591	0.18182	1445.0
21.9135	0.9266	-0.0606	0.92857	0.31716	33.295	5.634	0.18208	1448.4
21.7009	0.9268	-0.0539	0.92836	0.32070	33.589	5.671	0.18230	1451.5
21.4883	0.9270	-0.0472	0.92818	0.32421	33.848	5.705	0.18250	1454.1
21.2757	0.9271	-0.0405	0.92803	0.32770	34.072	5.734	0.18267	1456.4
21.0631	0.9273	-0.0338	0.92789	0.33119	34.264	5.758	0.18282	1458.3
20.8504	0.9274	-0.0271	0.92778	0.33469	34.422	5.778	0.18294	1460.0
20.6378	0.9275	-0.0204	0.92770	0.33822	34.547	5.794	0.18303	1461.2
20.4252	0.9275	-0.0136	0.92763	0.34178	34.639	5.806	0.18310	1462.1
20.2126	0.9276	-0.0068	0.92760	0.34539	34.695	5.813	0.18314	1462.7
20.0000	0.9276	0.0000	0.92758	0.34907	34.716	5.816	0.18316	1462.9

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=21.9865 ENTRØPY=32.5406
GAMMA (AVG.)=1.3043 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.9865	0.9273	-0.0631	0.92941	0.31580	42.770	5.934	0.17516	1766.3
21.7878	0.9275	-0.0567	0.92921	0.31916	43.172	5.977	0.17539	1770.2
21.5892	0.9277	-0.0504	0.92903	0.32248	43.530	6.015	0.17559	1773.6
21.3905	0.9278	-0.0442	0.92887	0.32577	43.845	6.048	0.17576	1776.6
21.1919	0.9280	-0.0379	0.92873	0.32905	44.119	6.077	0.17592	1779.2
20.9932	0.9281	-0.0316	0.92862	0.33232	44.352	6.102	0.17604	1781.4
20.7946	0.9282	-0.0254	0.92852	0.33561	44.544	6.122	0.17615	1783.2
20.5959	0.9283	-0.0191	0.92845	0.33892	44.696	6.138	0.17623	1784.6
20.3973	0.9283	-0.0128	0.92839	0.34225	44.807	6.150	0.17629	1785.6
20.1986	0.9283	-0.0064	0.92836	0.34563	44.876	6.157	0.17633	1786.3
20.0000	0.9283	-0.0000	0.92834	0.34907	44.900	6.160	0.17634	1786.5

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=21.8841 ENTRØPY=33.1045
GAMMA (AVG.)=1.2989 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.8841	0.9279	-0.0599	0.92987	0.31745	53.884	6.219	0.17023	2123.6
21.6957	0.9281	-0.0539	0.92969	0.32064	54.365	6.261	0.17043	2127.9
21.5072	0.9283	-0.0479	0.92952	0.32379	54.794	6.299	0.17062	2131.8
21.3188	0.9284	-0.0420	0.92938	0.32692	55.171	6.333	0.17078	2135.1
21.1304	0.9286	-0.0360	0.92926	0.33004	55.499	6.362	0.17092	2138.0
20.9420	0.9287	-0.0301	0.92915	0.33316	55.778	6.386	0.17103	2140.5
20.7536	0.9288	-0.0241	0.92907	0.33628	56.009	6.407	0.17113	2142.5
20.5652	0.9288	-0.0181	0.92900	0.33943	56.191	6.423	0.17120	2144.1
20.3768	0.9289	-0.0121	0.92895	0.34260	56.323	6.434	0.17126	2145.3
20.1884	0.9289	-0.0061	0.92892	0.34581	56.405	6.442	0.17129	2146.0
20.0000	0.9289	-0.0000	0.92890	0.34907	56.435	6.444	0.17131	2146.3

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.7614 ENTRØPY=33.6943
GAMMA (AVG.)=1.1750 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.7614	0.9287	-0.0563	0.93044	0.31928	66.286	6.587	0.15694	2463.6
21.5852	0.9289	-0.0506	0.93027	0.32231	66.848	6.632	0.15704	2467.3
21.4091	0.9290	-0.0450	0.93013	0.32530	67.347	6.672	0.15713	2470.7
21.2330	0.9292	-0.0393	0.93000	0.32826	67.785	6.708	0.15722	2473.7
21.0568	0.9293	-0.0338	0.92989	0.33121	68.165	6.738	0.15727	2476.1
20.8807	0.9294	-0.0282	0.92980	0.33414	68.487	6.764	0.15733	2478.3
20.7045	0.9294	-0.0226	0.92972	0.33708	68.753	6.785	0.15739	2480.0
20.5284	0.9295	-0.0170	0.92966	0.34004	68.963	6.802	0.15743	2481.3
20.3523	0.9296	-0.0113	0.92962	0.34301	69.115	6.814	0.15745	2482.4
20.1761	0.9296	-0.0057	0.92959	0.34602	69.209	6.822	0.15747	2483.0
20.0000	0.9296	-0.0000	0.92958	0.34907	69.243	6.825	0.15748	2483.1

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.6067 ENTRØPY=34.2448
GAMMA (AVG.)=1.1399 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.6067	0.9297	-0.0515	0.93116	0.32179	80.033	7.152	0.14791	2699.0
21.4461	0.9299	-0.0463	0.93102	0.32456	80.652	7.200	0.14800	2701.3
21.2854	0.9300	-0.0411	0.93090	0.32731	81.202	7.242	0.14808	2703.5
21.1247	0.9301	-0.0360	0.93079	0.33002	81.685	7.280	0.14816	2705.2
20.9640	0.9302	-0.0309	0.93070	0.33272	82.103	7.312	0.14821	2706.9
20.8034	0.9303	-0.0257	0.93062	0.33541	82.459	7.339	0.14827	2708.3
20.6427	0.9303	-0.0206	0.93056	0.33811	82.752	7.362	0.14831	2709.3
20.4820	0.9304	-0.0155	0.93051	0.34081	82.982	7.380	0.14834	2710.2
20.3213	0.9304	-0.0104	0.93047	0.34354	83.149	7.393	0.14837	2710.8
20.1607	0.9304	-0.0052	0.93045	0.34628	83.252	7.400	0.14838	2711.3
20.0000	0.9304	-0.0000	0.93044	0.34907	83.289	7.403	0.14838	2711.5

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.4576 ENTRPHY=34.7953
GAMMA (AVG.)=1.1306 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.4576	0.9307	-0.0468	0.93186	0.32425	95.104	7.815	0.14063	2886.5
21.3119	0.9308	-0.0421	0.93175	0.32678	95.768	7.863	0.14072	2888.5
21.1661	0.9309	-0.0374	0.93165	0.32927	96.359	7.905	0.14079	2890.6
21.0203	0.9310	-0.0327	0.93156	0.33174	96.878	7.941	0.14086	2892.5
20.8746	0.9311	-0.0281	0.93149	0.33420	97.328	7.973	0.14091	2894.1
20.7288	0.9311	-0.0234	0.93142	0.33665	97.710	8.000	0.14096	2895.5
20.5830	0.9312	-0.0188	0.93137	0.33910	98.025	8.023	0.14099	2896.4
20.4373	0.9312	-0.0141	0.93133	0.34157	98.272	8.041	0.14103	2897.0
20.2915	0.9312	-0.0094	0.93130	0.34404	98.452	8.053	0.14105	2897.7
20.1458	0.9313	-0.0047	0.93128	0.34654	98.562	8.061	0.14106	2898.2
20.0000	0.9313	-0.0000	0.93127	0.34907	98.602	8.064	0.14107	2898.2

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.3345 ENTRPHY=35.3442
GAMMA (AVG.)=1.1327 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.3345	0.9315	-0.0429	0.93246	0.32631	111.486	8.476	0.13495	3064.3
21.2010	0.9316	-0.0386	0.93236	0.32862	112.196	8.523	0.13503	3066.3
21.0676	0.9316	-0.0343	0.93228	0.33090	112.828	8.565	0.13509	3068.0
20.9341	0.9317	-0.0300	0.93221	0.33317	113.383	8.602	0.13515	3069.7
20.8007	0.9318	-0.0257	0.93214	0.33542	113.865	8.633	0.13520	3071.4
20.6672	0.9318	-0.0215	0.93209	0.33768	114.274	8.660	0.13525	3072.5
20.5338	0.9319	-0.0172	0.93204	0.33993	114.611	8.682	0.13529	3073.6
20.4003	0.9319	-0.0129	0.93201	0.34219	114.876	8.700	0.13531	3074.2
20.2669	0.9319	-0.0086	0.93198	0.34446	115.068	8.712	0.13533	3074.8
20.1334	0.9320	-0.0043	0.93197	0.34675	115.185	8.720	0.13534	3075.1
20.0000	0.9320	-0.0000	0.93196	0.34906	115.228	8.723	0.13535	3075.2

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.2348 ENTRPHY=35.0936
GAMMA (AVG.)=1.1439 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.2348	0.9321	-0.0398	0.93295	0.32798	129.178	9.108	0.13066	3239.7
21.1113	0.9322	-0.0358	0.93287	0.33012	129.936	9.155	0.13073	3241.7
20.9878	0.9323	-0.0318	0.93280	0.33223	130.610	9.196	0.13080	3243.7
20.8644	0.9323	-0.0278	0.93273	0.33433	131.205	9.232	0.13085	3245.3
20.7409	0.9324	-0.0239	0.93268	0.33642	131.720	9.264	0.13090	3246.6
20.6174	0.9324	-0.0199	0.93263	0.33851	132.158	9.290	0.13094	3247.8
20.4939	0.9325	-0.0159	0.93259	0.34060	132.518	9.311	0.13098	3249.1
20.3704	0.9325	-0.0120	0.93256	0.34269	132.801	9.329	0.13101	3249.8
20.2469	0.9325	-0.0080	0.93254	0.34480	133.006	9.341	0.13102	3250.5
20.1235	0.9325	-0.0040	0.93253	0.34692	133.132	9.350	0.13103	3250.4
20.0000	0.9325	-0.0000	0.93252	0.34906	133.177	9.352	0.13104	3250.6

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30828.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.1566 ENTRPHY=36.4458
GAMMA (AVG.)=1.1623 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.1566	0.9326	-0.0373	0.93334	0.32931	148.100	9.684	0.12762	3423.5
21.0409	0.9327	-0.0335	0.93327	0.33130	148.991	9.729	0.12768	3425.4
20.9252	0.9327	-0.0298	0.93321	0.33328	149.714	9.769	0.12775	3427.5
20.8096	0.9328	-0.0261	0.93315	0.33525	150.351	9.805	0.12780	3429.3
20.6939	0.9328	-0.0224	0.93310	0.33721	150.903	9.835	0.12786	3430.8
20.5783	0.9329	-0.0187	0.93306	0.33917	151.372	9.862	0.12790	3432.0
20.4626	0.9329	-0.0149	0.93303	0.34113	151.759	9.884	0.12793	3433.0
20.3470	0.9329	-0.0112	0.93300	0.34309	152.062	9.900	0.12795	3433.8
20.2313	0.9330	-0.0075	0.93298	0.34507	152.281	9.913	0.12797	3434.3
20.1157	0.9330	-0.0038	0.93297	0.34706	152.416	9.920	0.12798	3434.7
20.0000	0.9330	0.0000	0.93297	0.34907	152.464	9.921	0.12799	3435.3

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.0534 ENTRPHY=37.8581
GAMMA (AVG.)=1.2187 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0534	0.9332	-0.0340	0.93386	0.33107	201.394	10.575	0.12488	4032.3
20.9480	0.9333	-0.0306	0.93380	0.33288	202.391	10.618	0.12495	4035.4
20.8427	0.9334	-0.0272	0.93375	0.33468	203.281	10.656	0.12502	4038.3
20.7373	0.9334	-0.0238	0.93371	0.33647	204.066	10.688	0.12508	4041.3
20.6320	0.9334	-0.0204	0.93367	0.33825	204.748	10.716	0.12513	4043.6
20.5267	0.9335	-0.0170	0.93363	0.34004	205.327	10.741	0.12517	4045.2
20.4213	0.9335	-0.0136	0.93360	0.34183	205.803	10.762	0.12520	4046.7
20.3160	0.9335	-0.0102	0.93358	0.34362	206.177	10.777	0.12523	4048.0
20.2107	0.9335	-0.0068	0.93356	0.34542	206.448	10.789	0.12525	4049.0
20.1053	0.9335	-0.0034	0.93355	0.34724	206.614	10.796	0.12526	4049.5
20.0000	0.9336	-0.0000	0.93355	0.34907	206.674	10.798	0.12527	4049.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=21.0452 ENTRPHY=39.3372
GAMMA (AVG.)=1.1959 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0452	0.9333	-0.0337	0.93391	0.33119	262.735	10.648	0.12323	4967.8
20.9407	0.9334	-0.0303	0.93385	0.33299	264.029	10.693	0.12327	4971.2
20.8362	0.9334	-0.0270	0.93380	0.33478	265.184	10.733	0.12331	4974.2
20.7317	0.9335	-0.0236	0.93375	0.33656	266.203	10.768	0.12335	4976.9
20.6271	0.9335	-0.0202	0.93371	0.33833	267.087	10.798	0.12338	4979.1
20.5226	0.9335	-0.0169	0.93368	0.34011	267.838	10.824	0.12340	4980.9
20.4181	0.9336	-0.0135	0.93365	0.34188	268.456	10.845	0.12342	4982.6
20.3136	0.9336	-0.0102	0.93363	0.34366	268.942	10.862	0.12344	4983.8
20.2090	0.9336	-0.0068	0.93361	0.34545	269.293	10.874	0.12345	4984.7
20.1045	0.9336	-0.0034	0.93360	0.34725	269.508	10.881	0.12345	4985.2
20.0000	0.9336	-0.0000	0.93360	0.34906	269.585	10.884	0.12346	4985.4

CBNE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=32.0009 ENTRPHY=28.9233
GAMMA (AVG.)=1.3982 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.0009	0.8480	-0.2630	0.88781	0.25776	2.782	2.015	0.45667	338.4
31.0508	0.8521	-0.2365	0.88426	0.27119	2.862	2.056	0.46061	341.2
30.1007	0.8557	-0.2107	0.88126	0.28398	2.931	2.091	0.46395	343.5
29.1506	0.8590	-0.1851	0.87868	0.29647	2.990	2.121	0.46684	345.5
28.2005	0.8618	-0.1597	0.87645	0.30893	3.042	2.148	0.46934	347.2
27.2504	0.8642	-0.1342	0.87452	0.32155	3.088	2.171	0.47150	348.6
26.3003	0.8661	-0.1084	0.87290	0.33448	3.126	2.190	0.47333	349.9
25.3503	0.8677	-0.0823	0.87157	0.34788	3.158	2.206	0.47482	350.9
24.4002	0.8688	-0.0556	0.87055	0.36192	3.182	2.218	0.47595	351.6
23.4501	0.8694	-0.0283	0.86989	0.37679	3.197	2.225	0.47689	352.1
22.5000	0.8696	-0.0000	0.86961	0.39270	3.203	2.228	0.47698	352.3

CBNE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=28.9764 ENTRPHY=29.1050
GAMMA (AVG.)=1.3950 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9764	0.8748	-0.1880	0.89475	0.29402	4.217	2.576	0.36491	401.1
28.3287	0.8766	-0.1691	0.89292	0.30393	4.311	2.618	0.36687	403.6
27.6811	0.8786	-0.1505	0.89134	0.31351	4.394	2.653	0.36856	405.8
27.0335	0.8801	-0.1320	0.88997	0.32294	4.466	2.685	0.37003	407.7
26.3858	0.8815	-0.1136	0.88879	0.33232	4.529	2.712	0.37129	409.3
25.7382	0.8827	-0.0952	0.88778	0.34175	4.583	2.735	0.37238	410.7
25.0905	0.8836	-0.0767	0.88693	0.35132	4.629	2.755	0.37328	411.8
24.4429	0.8843	-0.0580	0.88625	0.36112	4.665	2.770	0.37401	412.7
23.7953	0.8849	-0.0390	0.88573	0.37122	4.693	2.782	0.37455	413.4
23.1476	0.8852	-0.0197	0.88540	0.38171	4.711	2.789	0.37490	413.9
22.5000	0.8853	0.0000	0.88527	0.39270	4.717	2.792	0.37503	414.0

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.769DE 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=27.4971 ENTRPHY=29.3639
 GAMMA (AVG.)=1.3887 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.4971	0.8670	-0.1486	0.89936	0.31396	6.060	3.108	0.31452	477.9
26.9974	0.8882	-0.1336	0.89821	0.32189	6.172	3.149	0.31574	480.4
26.4977	0.8893	-0.1189	0.89722	0.32961	6.271	3.185	0.31680	482.5
25.9980	0.8903	-0.1042	0.89635	0.33723	6.357	3.217	0.31772	484.4
25.4983	0.8911	-0.0896	0.89559	0.34482	6.433	3.244	0.31852	486.0
24.9985	0.8918	-0.0750	0.89495	0.35242	6.497	3.268	0.31920	487.3
24.4988	0.8924	-0.0603	0.89442	0.36011	6.551	3.287	0.31977	488.5
23.9991	0.8928	-0.0455	0.89399	0.36793	6.595	3.303	0.32022	489.4
23.4994	0.8932	-0.0306	0.89367	0.37593	6.627	3.314	0.32055	490.0
22.9997	0.8933	-0.0154	0.89347	0.38417	6.647	3.322	0.32076	490.5
22.5000	0.8934	0.0000	0.89339	0.39270	6.655	3.324	0.32084	490.6

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.769DE 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=26.6543 ENTRPHY=29.6734
 GAMMA (AVG.)=1.3787 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	T (K)	P	RHO	MU	T (K)
26.6543	0.8937	-0.1252	0.90244	0.32599	8.312	3.382	0.28301	568.6
26.2389	0.8946	-0.1126	0.90162	0.33271	8.446	3.624	0.28387	571.1
25.8235	0.8953	-0.1002	0.90091	0.33930	8.562	3.660	0.28463	573.3
25.4080	0.8960	-0.0878	0.90026	0.34580	8.665	3.692	0.28529	575.2
24.9926	0.8966	-0.0754	0.89975	0.35227	8.755	3.720	0.28586	576.8
24.5772	0.8971	-0.0631	0.89929	0.35875	8.831	3.743	0.28634	578.2
24.1617	0.8975	-0.0507	0.89890	0.36529	8.895	3.763	0.28674	579.3
23.7463	0.8978	-0.0382	0.89860	0.37191	8.947	3.779	0.28706	580.2
23.3309	0.8980	-0.0256	0.89838	0.37866	8.984	3.790	0.28729	580.9
22.9154	0.8981	-0.0129	0.89823	0.38558	9.008	3.798	0.28744	581.3
22.5000	0.8982	0.0000	0.89818	0.39270	9.017	3.800	0.28749	581.5

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=25.7512 ENTRØPY=30.3641
GAMMA (AVG.)=1.3533 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.7512	0.9007	-0.0995	0.90616	0.33943	14.040	4.367	0.24572	787.9
25.4261	0.9012	-0.0895	0.90564	0.34480	14.223	4.409	0.24626	790.6
25.1010	0.9017	-0.0796	0.90518	0.35009	14.385	4.446	0.24673	793.0
24.7759	0.9021	-0.0697	0.90479	0.35532	14.527	4.478	0.24715	795.0
24.4507	0.9025	-0.0598	0.90444	0.36053	14.651	4.507	0.24750	796.8
24.1256	0.9028	-0.0500	0.90415	0.36574	14.757	4.531	0.24781	798.3
23.8005	0.9030	-0.0401	0.90391	0.37098	14.845	4.551	0.24806	799.5
23.4754	0.9032	-0.0302	0.90372	0.37627	14.915	4.566	0.24826	800.5
23.1502	0.9033	-0.0202	0.90358	0.38164	14.966	4.578	0.24840	801.2
22.8251	0.9034	-0.0102	0.90349	0.38710	14.998	4.585	0.24849	801.6
22.5000	0.9035	0.0000	0.90345	0.39270	15.010	4.588	0.24853	801.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=25.2773 ENTRØPY=31.0775
GAMMA (AVG.)=1.3309 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.2773	0.9042	-0.0857	0.90829	0.34671	21.405	4.984	0.22437	1052.5
24.9996	0.9046	-0.0771	0.90791	0.35136	21.647	5.027	0.22477	1055.4
24.7218	0.9050	-0.0685	0.90757	0.35593	21.863	5.064	0.22512	1058.0
24.4441	0.9053	-0.0600	0.90728	0.36046	22.052	5.097	0.22543	1060.3
24.1664	0.9056	-0.0515	0.90702	0.36497	22.217	5.126	0.22569	1062.3
23.8886	0.9058	-0.0430	0.90680	0.36949	22.358	5.150	0.22592	1063.9
23.6109	0.9060	-0.0345	0.90662	0.37402	22.474	5.170	0.22610	1065.3
23.3332	0.9061	-0.0260	0.90648	0.37859	22.566	5.186	0.22625	1066.4
23.0554	0.9062	-0.0174	0.90637	0.38321	22.634	5.198	0.22636	1067.2
22.7777	0.9063	-0.0087	0.90631	0.38791	22.675	5.205	0.22642	1067.7
22.5000	0.9063	-0.0000	0.90628	0.39270	22.691	5.208	0.22645	1067.8

CONE SEMI-ANGLE=22.5
 FREE STREAM CONDITIONS
 MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 12355.3 FT./SEC. ENTROPY=28.8157

CONE SEMI-ANGLE=22.5
 FREE STREAM CONDITIONS
 MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=24.9867 ENTROPY=31.7755
 GAMMA (AVG.)=1.3154 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=24.7931 ENTROPY=32.4441
 GAMMA (AVG.)=1.3054 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.9867	0.9064	-0.0771	0.90967	0.35127	30.408	5.480	0.21074	1359.8
24.7380	0.9067	-0.0693	0.90936	0.35545	30.719	5.523	0.21107	1363.1
24.4894	0.9070	-0.0616	0.90909	0.35958	30.996	5.561	0.21135	1366.0
24.2407	0.9072	-0.0540	0.90885	0.36367	31.239	5.594	0.21160	1368.6
23.9920	0.9075	-0.0463	0.90864	0.36774	31.451	5.623	0.21182	1370.8
23.7433	0.9076	-0.0387	0.90846	0.37182	31.632	5.647	0.21200	1372.7
23.4947	0.9078	-0.0310	0.90832	0.37591	31.781	5.668	0.21215	1374.2
23.2460	0.9079	-0.0233	0.90820	0.38002	31.899	5.684	0.21227	1375.5
22.9973	0.9080	-0.0156	0.90812	0.38419	31.985	5.695	0.21236	1376.4
22.7487	0.9080	-0.0078	0.90806	0.38841	32.038	5.703	0.21241	1376.9
22.5000	0.9080	-0.0000	0.90804	0.39270	32.058	5.705	0.21243	1377.1

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.7931	0.9078	-0.0713	0.91062	0.35434	41.049	5.882	0.20148	1710.4
24.5637	0.9081	-0.0641	0.91035	0.35822	41.438	5.924	0.20176	1714.2
24.3344	0.9083	-0.0570	0.91012	0.36204	41.785	5.962	0.20200	1717.6
24.1051	0.9085	-0.0499	0.90991	0.36583	42.090	5.996	0.20222	1720.5
23.8758	0.9087	-0.0428	0.90973	0.36961	42.355	6.024	0.20241	1723.0
23.6465	0.9089	-0.0358	0.90958	0.37339	42.581	6.049	0.20256	1725.2
23.4172	0.9090	-0.0287	0.90946	0.37717	42.768	6.069	0.20269	1726.9
23.1879	0.9091	-0.0216	0.90936	0.38099	42.915	6.085	0.20279	1728.3
22.9586	0.9092	-0.0144	0.90929	0.38484	43.022	6.097	0.20287	1729.3
22.7293	0.9092	-0.0072	0.90924	0.38874	43.089	6.104	0.20292	1730.0
22.5000	0.9092	0.0000	0.90922	0.39270	43.113	6.107	0.20293	1730.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=24.6572 ENTRPHY=33.0784
GAMMA (AVG.)=1.2991 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
24.6572	0.9088	-0.0672	0.91130	0.35652	53.327	6.206	0.19490	2105.8
24.4414	0.9091	-0.0605	0.91106	0.36017	53.805	6.249	0.19515	2110.1
24.2257	0.9093	-0.0537	0.91085	0.36378	54.230	6.287	0.19537	2113.9
24.0100	0.9095	-0.0471	0.91067	0.36736	54.604	6.320	0.19556	2117.3
23.7943	0.9096	-0.0404	0.91051	0.37092	54.929	6.349	0.19573	2120.2
23.5786	0.9098	-0.0337	0.91038	0.37449	55.206	6.374	0.19587	2122.7
23.3629	0.9099	-0.0270	0.91027	0.37807	55.435	6.394	0.19599	2124.7
23.1471	0.9100	-0.0203	0.91018	0.38166	55.615	6.410	0.19608	2126.3
22.9314	0.9100	-0.0136	0.91011	0.38530	55.747	6.422	0.19615	2127.4
22.7157	0.9100	-0.0068	0.91007	0.38897	55.828	6.429	0.19619	2128.1
22.5000	0.9101	-0.0000	0.91006	0.39270	55.857	6.432	0.19620	2128.4

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=24.5024 ENTRPHY=33.7255
GAMMA (AVG.)=1.1700 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
24.5024	0.9099	-0.0627	0.91210	0.35884	67.223	6.613	0.17859	2487.2
24.3021	0.9101	-0.0564	0.91189	0.36228	67.790	6.659	0.17871	2491.0
24.1019	0.9103	-0.0501	0.91171	0.36568	68.294	6.700	0.17882	2494.1
23.9016	0.9105	-0.0438	0.91155	0.36905	68.736	6.735	0.17893	2497.0
23.7014	0.9106	-0.0376	0.91141	0.37239	69.120	6.766	0.17901	2499.2
23.5012	0.9108	-0.0314	0.91129	0.37573	69.445	6.792	0.17908	2501.3
23.3009	0.9108	-0.0251	0.91120	0.37907	69.714	6.814	0.17913	2502.8
23.1007	0.9109	-0.0189	0.91112	0.38243	69.925	6.831	0.17919	2504.1
22.9005	0.9110	-0.0126	0.91106	0.38581	70.079	6.843	0.17922	2505.0
22.7002	0.9110	-0.0063	0.91103	0.38923	70.174	6.851	0.17925	2505.7
22.5000	0.9110	-0.0000	0.91102	0.39270	70.208	6.854	0.17925	2505.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=24.2995 ENTRØPY=34.3497
GAMMA (AVG.)=1.1373 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
24.2995	0.9114	-0.0565	0.91316	0.36215	82.799	7.278	0.16726	2735.2
24.1195	0.9116	-0.0508	0.91299	0.36526	83.427	7.325	0.16737	2737.6
23.9396	0.9117	-0.0452	0.91284	0.36833	83.984	7.368	0.16746	2739.7
23.7596	0.9119	-0.0395	0.91271	0.37137	84.474	7.404	0.16754	2741.7
23.5797	0.9120	-0.0339	0.91259	0.37439	84.899	7.437	0.16762	2743.0
23.3997	0.9121	-0.0283	0.91250	0.37741	85.259	7.464	0.16769	2744.5
23.2198	0.9121	-0.0227	0.91242	0.38043	85.556	7.486	0.16774	2745.8
23.0398	0.9122	-0.0170	0.91236	0.38346	85.790	7.505	0.16778	2746.4
22.8599	0.9122	-0.0114	0.91231	0.38651	85.959	7.517	0.16780	2747.1
22.6799	0.9123	-0.0057	0.91229	0.38959	86.063	7.524	0.16783	2747.8
22.5000	0.9123	0.0000	0.91227	0.39270	86.101	7.528	0.16783	2747.8

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=24.1170 ENTRØPY=34.9649
GAMMA (AVG.)=1.1300 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
24.1170	0.9127	-0.0509	0.91413	0.36517	100.025	8.021	0.15841	2942.2
23.9553	0.9128	-0.0458	0.91399	0.36796	100.703	8.068	0.15851	2944.5
23.7936	0.9130	-0.0407	0.91387	0.37073	101.306	8.110	0.15860	2946.3
23.6319	0.9131	-0.0356	0.91377	0.37347	101.837	8.147	0.15868	2948.2
23.4702	0.9132	-0.0305	0.91368	0.37620	102.296	8.179	0.15874	2949.6
23.3085	0.9132	-0.0255	0.91360	0.37892	102.687	8.206	0.15880	2950.8
23.1468	0.9133	-0.0204	0.91353	0.38164	103.008	8.228	0.15885	2951.9
22.9851	0.9134	-0.0153	0.91348	0.38438	103.261	8.245	0.15888	2952.7
22.8234	0.9134	-0.0102	0.91345	0.38712	103.444	8.258	0.15890	2953.2
22.6617	0.9134	-0.0051	0.91342	0.38990	103.557	8.266	0.15892	2953.6
22.5000	0.9134	0.0000	0.91342	0.39270	103.597	8.270	0.15893	2953.5

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.9708 ENTRBPY=35.5790
GAMMA (AVG.)=1.1365 STAG. ENTHALPY=3.0706E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.9708	0.9138	-0.0464	0.91493	0.36761	118.894	8.752	0.15179	3138.9
23.8237	0.9139	-0.0417	0.91482	0.37016	119.624	8.799	0.15188	3141.0
23.6766	0.9140	-0.0371	0.91472	0.37267	120.273	8.840	0.15196	3142.9
23.5296	0.9141	-0.0325	0.91463	0.37517	120.845	8.876	0.15203	3144.8
23.3825	0.9141	-0.0278	0.91455	0.37766	121.341	8.908	0.15210	3146.1
23.2354	0.9142	-0.0232	0.91449	0.38014	121.762	8.934	0.15214	3147.4
23.0883	0.9142	-0.0186	0.91443	0.38263	122.109	8.956	0.15218	3148.4
22.9412	0.9143	-0.0140	0.91439	0.38512	122.381	8.975	0.15222	3148.7
22.7941	0.9143	-0.0093	0.91436	0.38763	122.578	8.987	0.15224	3149.5
22.6471	0.9143	-0.0047	0.91434	0.39015	122.699	8.994	0.15226	3149.9
22.5000	0.9143	0.0000	0.91433	0.39270	122.743	8.996	0.15226	3150.2

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.0568 ENTRBPY=36.1948
GAMMA (AVG.)=1.1531 STAG. ENTHALPY=3.0096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.8568	0.9146	-0.0429	0.91556	0.36953	139.401	9.433	0.14707	3338.0
23.7211	0.9147	-0.0386	0.91547	0.37187	140.187	9.478	0.14716	3340.1
23.5854	0.9147	-0.0343	0.91538	0.37419	140.887	9.518	0.14722	3342.5
23.4498	0.9148	-0.0300	0.91531	0.37650	141.504	9.554	0.14729	3344.0
23.3141	0.9149	-0.0257	0.91524	0.37880	142.039	9.586	0.14735	3345.2
23.1784	0.9149	-0.0215	0.91518	0.38109	142.494	9.612	0.14740	3346.6
23.0427	0.9150	-0.0172	0.91514	0.38339	142.868	9.633	0.14744	3347.7
22.9070	0.9150	-0.0129	0.91510	0.38570	143.161	9.651	0.14747	3348.4
22.7713	0.9150	-0.0086	0.91508	0.38801	143.374	9.663	0.14749	3348.8
22.6357	0.9151	-0.0043	0.91506	0.39034	143.504	9.670	0.14751	3349.4
22.5000	0.9151	-0.0000	0.91506	0.39270	143.551	9.674	0.14752	3349.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.7726 ENTROPY=36.8160
GAMMA (AVG.)=1.1771 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.7726	0.9152	-0.0402	0.91604	0.37096	161.547	10.016	0.14405	3556.9
23.6433	0.9152	-0.0362	0.91595	0.37315	162.398	10.060	0.14413	3559.4
23.5180	0.9153	-0.0322	0.91588	0.37533	163.157	10.100	0.14421	3561.4
23.3908	0.9154	-0.0282	0.91581	0.37749	163.825	10.135	0.14428	3563.2
23.2635	0.9154	-0.0242	0.91575	0.37965	164.406	10.165	0.14433	3564.9
23.1363	0.9155	-0.0201	0.91570	0.38180	164.999	10.192	0.14438	3566.0
22.0090	0.9155	-0.0161	0.91566	0.38396	165.304	10.213	0.14441	3567.3
22.8817	0.9156	-0.0121	0.91563	0.38613	165.623	10.230	0.14445	3567.9
22.7545	0.9156	-0.0081	0.91561	0.38830	165.854	10.242	0.14447	3568.7
22.6272	0.9156	-0.0041	0.91560	0.39049	165.995	10.249	0.14448	3569.1
22.5000	0.9156	-0.0000	0.91559	0.39270	166.046	10.252	0.14448	3569.3

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.7172 ENTROPY=37.4463
GAMMA (AVG.)=1.2044 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.7172	0.9155	-0.0385	0.91635	0.37189	185.324	10.442	0.14260	3818.9
23.5955	0.9156	-0.0347	0.91627	0.37399	186.255	10.486	0.14268	3821.1
23.4738	0.9157	-0.0308	0.91620	0.37607	187.086	10.524	0.14276	3823.9
23.3521	0.9157	-0.0270	0.91614	0.37814	187.819	10.559	0.14282	3825.6
23.2303	0.9158	-0.0231	0.91609	0.38020	188.455	10.588	0.14288	3827.8
23.1086	0.9158	-0.0193	0.91605	0.38226	188.995	10.614	0.14292	3829.0
22.9869	0.9159	-0.0155	0.91601	0.38433	189.440	10.634	0.14296	3830.6
22.8652	0.9159	-0.0116	0.91598	0.38640	189.789	10.650	0.14300	3831.7
22.7434	0.9159	-0.0078	0.91596	0.38848	190.041	10.662	0.14302	3832.2
22.6217	0.9159	-0.0039	0.91595	0.39058	190.197	10.670	0.14304	3832.7
22.5000	0.9159	-0.0000	0.91594	0.39269	190.252	10.672	0.14304	3832.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
 VELOCITY= 36036.4 FT./SEC. ENTRALPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.7093 ENTRALPY=39.0915
 GAMMA (AVG.)=1.1620 STAG. ENTHALPY=6.5195E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	Y	THETA	P	RRR	MU	T (K)
23.6155	0.9163	-0.0354	0.91694	0.37359	328.733	11.327	0.13423	5634.3
23.5039	0.9163	-0.0318	0.91687	0.37551	330.249	11.372	0.13428	5637.1
23.3924	0.9164	-0.0283	0.91681	0.37743	331.603	11.412	0.13432	5639.8
23.2808	0.9164	-0.0247	0.91676	0.37933	332.796	11.447	0.13436	5641.9
23.1693	0.9165	-0.0212	0.91672	0.38123	333.831	11.478	0.13439	5643.8
23.0577	0.9165	-0.0177	0.91668	0.38312	334.710	11.504	0.13442	5645.4
22.9462	0.9165	-0.0142	0.91665	0.38502	335.433	11.526	0.13444	5646.7
22.8346	0.9166	-0.0106	0.91662	0.38693	336.001	11.543	0.13446	5647.8
22.7231	0.9166	-0.0071	0.91661	0.38884	336.411	11.555	0.13447	5648.5
22.6115	0.9166	-0.0036	0.91660	0.39076	336.662	11.562	0.13448	5649.0
22.5000	0.9166	-0.0000	0.91659	0.39270	336.752	11.565	0.13448	5649.1

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41104.4 FT./SEC. ENTRALPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=23.6155 ENTRALPY=40.7248
 GAMMA (AVG.)=1.1620 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	Y	THETA	P	RRR	MU	T (K)
23.6155	0.9163	-0.0354	0.91694	0.37359	328.733	11.327	0.13423	5634.3
23.5039	0.9163	-0.0318	0.91687	0.37551	330.249	11.372	0.13428	5637.1
23.3924	0.9164	-0.0283	0.91681	0.37743	331.603	11.412	0.13432	5639.8
23.2808	0.9164	-0.0247	0.91676	0.37933	332.796	11.447	0.13436	5641.9
23.1693	0.9165	-0.0212	0.91672	0.38123	333.831	11.478	0.13439	5643.8
23.0577	0.9165	-0.0177	0.91668	0.38312	334.710	11.504	0.13442	5645.4
22.9462	0.9165	-0.0142	0.91665	0.38502	335.433	11.526	0.13444	5646.7
22.8346	0.9166	-0.0106	0.91662	0.38693	336.001	11.543	0.13446	5647.8
22.7231	0.9166	-0.0071	0.91661	0.38884	336.411	11.555	0.13447	5648.5
22.6115	0.9166	-0.0036	0.91660	0.39076	336.662	11.562	0.13448	5649.0
22.5000	0.9166	-0.0000	0.91659	0.39270	336.752	11.565	0.13448	5649.1

CBNE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.769DE 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.5483 ENTRPHY=29.2088

GAMMA (AVG.)=1.3928 STAG. ENTHALPHY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
31.5483	0.8521	-0.1864	0.87229	0.33533	4.948	2.808	0.38933	431.9
30.8935	0.8542	-0.1676	0.87044	0.34543	5.049	2.849	0.39134	434.4
30.2386	0.8559	-0.1491	0.86884	0.35525	5.138	2.885	0.39309	436.5
29.5838	0.8575	-0.1308	0.86744	0.36494	5.216	2.916	0.39462	438.4
28.9290	0.8589	-0.1126	0.86623	0.37450	5.284	2.943	0.39593	440.0
28.2741	0.8600	-0.0943	0.86520	0.38429	5.343	2.967	0.39706	441.4
27.6193	0.8610	-0.0759	0.86434	0.39413	5.392	2.986	0.39800	442.5
26.9645	0.8617	-0.0573	0.86365	0.40418	5.431	3.002	0.39875	443.4
26.3096	0.8623	-0.0386	0.86313	0.41450	5.460	3.013	0.39931	444.1
25.6548	0.8626	-0.0195	0.86280	0.42519	5.479	3.021	0.39966	444.5
25.0000	0.8627	0.0000	0.86267	0.43633	5.486	3.024	0.39980	444.7

CBNE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.769DE 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=34.4915 ENTRPHY=28.9721

GAMMA (AVG.)=1.3975 STAG. ENTHALPHY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
34.4915	0.8241	-0.2578	0.86350	0.29884	3.201	2.197	0.48435	357.2
33.5423	0.8281	-0.2319	0.85998	0.31243	3.285	2.238	0.48842	359.8
32.5932	0.8317	-0.2065	0.85698	0.32549	3.358	2.273	0.49192	362.0
31.6440	0.8349	-0.1814	0.85438	0.33832	3.421	2.304	0.49495	364.0
30.6949	0.8377	-0.1564	0.85213	0.35113	3.477	2.330	0.49758	365.6
29.7457	0.8400	-0.1313	0.85019	0.36410	3.525	2.353	0.49985	367.1
28.7966	0.8419	-0.1060	0.84856	0.37735	3.565	2.373	0.50177	368.3
27.8474	0.8434	-0.0803	0.84724	0.39105	3.598	2.388	0.50332	369.2
26.8983	0.8445	-0.0542	0.84623	0.40534	3.623	2.400	0.50450	370.0
25.9491	0.8451	-0.0275	0.84557	0.42037	3.640	2.408	0.50526	370.4
25.0000	0.8453	0.0000	0.84531	0.43633	3.646	2.411	0.50555	370.6

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.1209	0.8649	-0.1491	0.87770	0.35497	7.195	3.365	0.33773	524.0
29.6088	0.8662	-0.1341	0.87651	0.36314	7.317	3.406	0.33900	526.5
29.0967	0.8673	-0.1193	0.87548	0.37113	7.425	3.443	0.34010	528.6
28.5846	0.8683	-0.1046	0.87457	0.37902	7.520	3.474	0.34106	530.5
28.0725	0.8692	-0.0899	0.87379	0.38689	7.603	3.502	0.34189	532.1
27.5604	0.8699	-0.0752	0.87312	0.39478	7.674	3.525	0.34260	533.5
27.0483	0.8705	-0.0605	0.87257	0.40274	7.733	3.545	0.34319	534.6
26.5362	0.8709	-0.0456	0.87212	0.41083	7.780	3.561	0.34366	535.5
26.0242	0.8713	-0.0306	0.87179	0.41909	7.815	3.572	0.34400	536.2
25.5121	0.8714	-0.0154	0.87159	0.42757	7.837	3.580	0.34422	536.6
25.0000	0.8715	0.0000	0.87150	0.43633	7.845	3.582	0.34430	536.7

SHOCK ANGLE=30.1209 ENTROPY=29.5221
GAMMA (AVG.)=1.3839 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.
SHOCK ANGLE=29.3062 ENTROPY=29.8844
GAMMA (AVG.)=1.3711 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.3062	0.8720	-0.1271	0.88121	0.36677	9.940	3.851	0.30550	632.5
28.8756	0.8729	-0.1143	0.88034	0.37376	10.087	3.893	0.30641	635.0
28.4449	0.8737	-0.1017	0.87959	0.38063	10.218	3.930	0.30720	637.2
28.0143	0.8744	-0.0891	0.87893	0.38742	10.332	3.962	0.30789	639.2
27.5837	0.8750	-0.0765	0.87835	0.39419	10.432	3.990	0.30848	640.8
27.1531	0.8755	-0.0640	0.87787	0.40097	10.517	4.013	0.30899	642.2
26.7225	0.8760	-0.0514	0.87746	0.40780	10.588	4.033	0.30941	643.4
26.2919	0.8763	-0.0387	0.87714	0.41471	10.645	4.049	0.30974	644.3
25.8612	0.8765	-0.0260	0.87690	0.42175	10.687	4.060	0.30998	645.0
25.4306	0.8767	-0.0131	0.87675	0.42894	10.713	4.068	0.31014	645.4
25.0000	0.8767	0.0000	0.87670	0.43633	10.722	4.070	0.31019	645.6

CONE SEMI-ANGLE=25.0
 FREE STREAM CONDITIONS
 MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 8236.9 FT./SEC. ENTROPY=28.8157

CONE SEMI-ANGLE=25.0
 FREE STREAM CONDITIONS
 MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7600E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 10296.1 FT./SEC. ENTROPY=28.8157

SHOCK ANGLE=28.4232
 ENTROPY=30.6634
 GAMMA (AVG.)=1.3431
 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=27.9542
 ENTROPY=31.4459
 GAMMA (AVG.)=1.3219
 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

FLOW PROPERTIES

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.9542	0.8833	-0.0892	0.88780	0.38729	25.912	5.257	0.24549	1207.9
27.6588	0.8837	-0.0802	0.88738	0.38223	26.189	5.300	0.24592	1211.1
27.3634	0.8841	-0.0713	0.88700	0.39711	26.436	5.337	0.24630	1213.9
27.0679	0.8845	-0.0624	0.88667	0.40195	26.653	5.371	0.24663	1216.3
26.7725	0.8848	-0.0536	0.88639	0.40677	26.841	5.399	0.24692	1218.4
26.4771	0.8850	-0.0448	0.88615	0.41159	27.002	5.424	0.24716	1220.1
26.1817	0.8852	-0.0359	0.88595	0.41642	27.135	5.444	0.24736	1221.6
25.8863	0.8854	-0.0270	0.88579	0.42130	27.240	5.460	0.24752	1222.7
25.5908	0.8855	-0.0181	0.88567	0.42623	27.317	5.472	0.24763	1223.6
25.2954	0.8856	-0.0091	0.88560	0.43123	27.365	5.479	0.24771	1224.1
25.0000	0.8856	0.0000	0.88557	0.43633	27.382	5.481	0.24773	1224.3

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.4232	0.8794	-0.1025	0.88540	0.38003	16.927	4.643	0.26727	893.5
28.0809	0.8800	-0.0922	0.88484	0.38570	17.134	4.685	0.26785	896.3
27.7345	0.8805	-0.0820	0.88434	0.39129	17.317	4.722	0.26835	898.8
27.3962	0.8810	-0.0718	0.88391	0.39682	17.479	4.755	0.26879	900.9
27.0539	0.8814	-0.0617	0.88353	0.40234	17.619	4.783	0.26917	902.7
26.7116	0.8817	-0.0515	0.88321	0.40785	17.739	4.807	0.26950	904.3
26.3693	0.8820	-0.0413	0.88295	0.41340	17.838	4.827	0.26976	905.6
26.0269	0.8822	-0.0311	0.88274	0.41899	17.917	4.843	0.26997	906.6
25.6846	0.8823	-0.0208	0.88259	0.42467	17.974	4.855	0.27013	907.3
25.3423	0.8824	-0.0105	0.88249	0.43044	18.010	4.862	0.27022	907.8
25.0000	0.8825	0.0000	0.88245	0.43633	18.023	4.865	0.27026	908.0

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=27.6666 ENTRØPY=32.1991
GAMMA (AVG.)=1.3086 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.6666	0.8857	-0.0809	0.88934	0.39182	36.895	5.742	0.23173	1574.7
27.3999	0.8860	-0.0727	0.88899	0.39631	37.254	5.785	0.23208	1578.3
27.1332	0.8863	-0.0647	0.88868	0.40074	37.574	5.823	0.23239	1581.5
26.8666	0.8866	-0.0566	0.88841	0.40514	37.855	5.856	0.23267	1584.3
26.5999	0.8868	-0.0486	0.88818	0.40952	38.100	5.885	0.23290	1586.7
26.3333	0.8871	-0.0406	0.88798	0.41390	38.308	5.909	0.23310	1588.7
26.0666	0.8872	-0.0325	0.88781	0.41830	38.480	5.930	0.23327	1590.4
25.8000	0.8873	-0.0245	0.88768	0.42272	38.616	5.946	0.23340	1591.7
25.5333	0.8874	-0.0164	0.88759	0.42719	38.715	5.957	0.23349	1592.7
25.2666	0.8875	-0.0082	0.88753	0.43173	38.777	5.965	0.23355	1593.3
25.0000	0.8875	-0.0000	0.88751	0.43633	38.799	5.967	0.23357	1593.5

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=27.4760 ENTRØPY=32.9119
GAMMA (AVG.)=1.3005 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	MU	T (K)	
27.4760	0.8872	-0.0753	0.89039	0.39486	49.876	6.126	0.22247	1995.4
27.2284	0.8875	-0.0677	0.89009	0.39904	50.329	6.169	0.22277	1999.6
26.9808	0.8878	-0.0602	0.88982	0.40317	50.732	6.207	0.22305	2003.2
26.7332	0.8880	-0.0527	0.88958	0.40727	51.087	6.240	0.22329	2006.5
26.4856	0.8882	-0.0452	0.88938	0.41136	51.395	6.269	0.22349	2009.3
26.2380	0.8884	-0.0378	0.88921	0.41545	51.658	6.294	0.22367	2011.6
25.9904	0.8885	-0.0303	0.88906	0.41955	51.875	6.314	0.22381	2013.6
25.7428	0.8887	-0.0228	0.88895	0.42367	52.046	6.330	0.22392	2015.1
25.4952	0.8887	-0.0152	0.88887	0.42784	52.171	6.342	0.22401	2016.2
25.2476	0.8888	-0.0076	0.88882	0.43205	52.248	6.349	0.22406	2016.9
25.0000	0.8888	0.0000	0.88880	0.43633	52.276	6.351	0.22408	2017.2

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=27.3433 ENTRØPY=33.5817
GAMMA (AVG.)=1.2956 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
27.3433	0.8883	-0.0714	0.89113	0.39699	64.855	6.430	0.21595	2471.8
27.1090	0.8885	-0.0643	0.89086	0.40095	65.414	6.473	0.21623	2476.6
26.8746	0.8888	-0.0571	0.89062	0.40488	65.911	6.511	0.21648	2480.9
26.6403	0.8890	-0.0500	0.89041	0.40877	66.349	6.545	0.21669	2484.6
26.4060	0.8892	-0.0429	0.89022	0.41265	66.730	6.573	0.21688	2487.9
26.1716	0.8893	-0.0358	0.89007	0.41653	67.054	6.598	0.21704	2490.6
25.9373	0.8895	-0.0287	0.88994	0.42042	67.322	6.618	0.21717	2492.9
25.7030	0.8896	-0.0216	0.88984	0.42434	67.533	6.634	0.21727	2494.7
25.4687	0.8896	-0.0144	0.88976	0.42829	67.686	6.646	0.21734	2496.0
25.2343	0.8897	-0.0072	0.88972	0.43228	67.781	6.653	0.21739	2496.8
25.0000	0.8897	0.0000	0.88970	0.43633	67.815	6.656	0.21741	2497.1

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=27.0471 ENTRØPY=34.3130
GAMMA (AVG.)=1.1382 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
27.0471	0.8906	-0.0629	0.89285	0.40159	81.825	7.233	0.18986	2722.7
26.8424	0.8908	-0.0565	0.89263	0.40513	82.450	7.281	0.18999	2725.2
26.6377	0.8910	-0.0502	0.89244	0.40861	83.004	7.324	0.19011	2727.1
26.4330	0.8912	-0.0439	0.89228	0.41207	83.492	7.361	0.19022	2729.0
26.2283	0.8913	-0.0377	0.89214	0.41551	83.914	7.392	0.19032	2730.7
26.0236	0.8915	-0.0314	0.89201	0.41894	84.273	7.420	0.19038	2732.0
25.8188	0.8916	-0.0252	0.89192	0.42237	84.569	7.442	0.19045	2733.3
25.6141	0.8916	-0.0189	0.89184	0.42582	84.801	7.459	0.19050	2734.3
25.4094	0.8917	-0.0127	0.89178	0.42929	84.970	7.473	0.19053	2734.6
25.2047	0.8917	-0.0063	0.89174	0.43279	85.074	7.481	0.19055	2735.0
25.0000	0.8917	0.0000	0.89173	0.43633	85.111	7.483	0.19056	2735.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=26.8182 ENTRØPY=34.9924
GAMMA (AVG.)=1.1301 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.8182	0.8924	-0.0560	0.89420	0.40538	100.833	8.054	0.17870	2951.2
26.6364	0.8926	-0.0504	0.89403	0.40852	101.514	8.101	0.17882	2953.5
26.4546	0.8928	-0.0448	0.89388	0.41163	102.119	8.143	0.17892	2955.4
26.2728	0.8929	-0.0392	0.89375	0.41471	102.651	8.180	0.17901	2957.1
26.0909	0.8930	-0.0336	0.89363	0.41778	103.113	8.211	0.17910	2958.6
25.9091	0.8931	-0.0280	0.89354	0.42084	103.504	8.238	0.17916	2960.0
25.7271	0.8932	-0.0224	0.89346	0.42390	103.827	8.261	0.17922	2961.0
25.5455	0.8932	-0.0169	0.89340	0.42697	104.080	8.279	0.17925	2961.6
25.3636	0.8933	-0.0113	0.89335	0.43006	104.264	8.291	0.17930	2962.3
25.1818	0.8933	-0.0057	0.89332	0.43318	104.377	8.299	0.17931	2962.7
25.0000	0.8933	-0.0000	0.89331	0.43633	104.418	8.302	0.17931	2962.8

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=26.6393 ENTRØPY=35.6705
GAMMA (AVG.)=1.1384 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.6393	0.8938	-0.0506	0.89528	0.40837	121.844	8.857	0.17061	3168.2
26.4754	0.8940	-0.0455	0.89514	0.41120	122.581	8.904	0.17071	3170.4
26.3114	0.8941	-0.0405	0.89502	0.41400	123.238	8.944	0.17080	3172.4
26.1475	0.8942	-0.0354	0.89491	0.41679	123.816	8.982	0.17088	3173.6
25.9836	0.8943	-0.0304	0.89482	0.41956	124.318	9.013	0.17097	3175.2
25.8196	0.8944	-0.0253	0.89474	0.42233	124.744	9.040	0.17103	3176.3
25.6557	0.8944	-0.0203	0.89467	0.42510	125.094	9.062	0.17108	3177.2
25.4918	0.8945	-0.0152	0.89462	0.42788	125.369	9.079	0.17111	3178.1
25.3278	0.8945	-0.0102	0.89459	0.43067	125.569	9.091	0.17114	3178.7
25.1639	0.8945	-0.0051	0.89456	0.43349	125.691	9.100	0.17116	3178.8
25.0000	0.8946	-0.0000	0.89455	0.43633	125.735	9.102	0.17117	3179.1

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=26.5044 ENTRØPY=36.3515
GAMMA (AVG.)=1.1586 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.5044	0.8949	-0.0465	0.89611	0.41064	144.852	9.590	0.16511	3391.2
26.1540	0.8950	-0.0419	0.89599	0.41323	145.653	9.636	0.16521	3393.4
26.2035	0.8951	-0.0372	0.89589	0.41580	146.367	9.676	0.16530	3395.3
26.0531	0.8952	-0.0326	0.89580	0.41836	146.997	9.712	0.16538	3397.0
25.9026	0.8953	-0.0279	0.89572	0.42091	147.542	9.743	0.16544	3398.4
25.7522	0.8954	-0.0233	0.89565	0.42346	148.006	9.770	0.16551	3399.6
25.6018	0.8954	-0.0187	0.89560	0.42600	148.388	9.792	0.16555	3400.4
25.4513	0.8954	-0.0140	0.89556	0.42856	148.687	9.808	0.16559	3401.5
25.3009	0.8955	-0.0094	0.89552	0.43113	148.904	9.821	0.16562	3401.9
25.1504	0.8955	-0.0047	0.89550	0.43371	149.038	9.828	0.16563	3402.3
25.0000	0.8955	-0.0000	0.89550	0.43632	149.085	9.831	0.16564	3402.4

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=26.4102 ENTRØPY=37.0401
GAMMA (AVG.)=1.1868 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.4102	0.8956	-0.0437	0.89669	0.41224	169.862	10.189	0.16192	3644.2
26.2692	0.8957	-0.0393	0.89659	0.41467	170.739	10.234	0.16201	3646.5
26.1281	0.8958	-0.0349	0.89650	0.41708	171.522	10.272	0.16210	3649.2
25.9871	0.8959	-0.0305	0.89642	0.41948	172.212	10.308	0.16218	3650.9
25.8461	0.8960	-0.0262	0.89635	0.42187	172.811	10.338	0.16225	3652.6
25.7051	0.8960	-0.0219	0.89630	0.42426	173.319	10.364	0.16230	3653.7
25.5641	0.8961	-0.0175	0.89625	0.42665	173.738	10.385	0.16235	3654.8
25.4230	0.8961	-0.0131	0.89621	0.42905	174.066	10.402	0.16239	3655.6
25.2820	0.8961	-0.0088	0.89618	0.43146	174.304	10.414	0.16242	3656.2
25.1410	0.8962	-0.0044	0.89616	0.43389	174.450	10.420	0.16243	3657.0
25.0000	0.8962	0.0000	0.89616	0.43633	174.503	10.424	0.16243	3656.8

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=26.3584 ENTRØPY=37.7427
GAMMA (AVG.)=1.2155 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.3584	0.8960	-0.0421	0.89702	0.41313	196.862	10.555	0.16089	3966.7
26.2225	0.8961	-0.0378	0.89693	0.41546	197.839	10.597	0.16099	3969.9
26.0867	0.8962	-0.0336	0.89684	0.41778	198.710	10.636	0.16108	3972.6
25.9508	0.8963	-0.0294	0.89677	0.42009	199.479	10.669	0.16116	3975.1
25.8150	0.8963	-0.0253	0.89670	0.42239	200.147	10.698	0.16123	3977.2
25.6792	0.8964	-0.0211	0.89665	0.42469	200.714	10.723	0.16128	3978.8
25.5433	0.8964	-0.0169	0.89660	0.42700	201.181	10.743	0.16133	3980.5
25.4075	0.8965	-0.0127	0.89657	0.42931	201.547	10.759	0.16137	3981.7
25.2717	0.8965	-0.0085	0.89654	0.43163	201.813	10.771	0.16140	3982.3
25.1358	0.8965	-0.0042	0.89653	0.43397	201.975	10.778	0.16141	3982.9
25.0000	0.8965	0.0000	0.89652	0.43633	202.034	10.780	0.16142	3983.2

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=26.3730 ENTRØPY=38.4749
GAMMA (AVG.)=1.2221 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.3730	0.8959	-0.0425	0.89693	0.41289	225.839	10.451	0.16212	4468.9
26.2357	0.8960	-0.0382	0.89683	0.41525	226.973	10.493	0.16222	4473.0
26.0984	0.8961	-0.0340	0.89675	0.41759	227.984	10.530	0.16231	4476.6
25.9611	0.8962	-0.0298	0.89667	0.41992	228.876	10.562	0.16239	4479.8
25.8238	0.8962	-0.0255	0.89661	0.42225	229.651	10.591	0.16246	4482.4
25.6865	0.8963	-0.0213	0.89655	0.42457	230.308	10.615	0.16252	4484.9
25.5492	0.8963	-0.0170	0.89650	0.42690	230.850	10.635	0.16257	4486.7
25.4119	0.8964	-0.0128	0.89647	0.42924	231.275	10.650	0.16261	4488.3
25.2746	0.8964	-0.0086	0.89644	0.43159	231.583	10.661	0.16263	4489.3
25.1373	0.8964	-0.0043	0.89643	0.43395	231.772	10.668	0.16265	4489.9
25.0000	0.8964	0.0000	0.89642	0.43633	231.839	10.671	0.16265	4490.3

CONE SEMI-ANGLE=25.0
 FREE STREAM CONDITIONS

MACH NO.=35.50 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K

VELOCITY= 36036.4 FT./SEC. ENTROPY=29.8157

VELOCITY= 41184.4 FT./SEC. ENTROPY=29.8157

FLOW PROPERTIES

SHOCK ANGLE=26.2877 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ. ENTROPY=46.2933

FLOW PROPERTIES

SHOCK ANGLE=26.1737 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ. ENTROPY=42.0869

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.1737	0.8975	-0.0365	0.89820	0.41620	400.782	12.093	0.14549	6134.6
26.0563	0.8975	-0.0328	0.89813	0.41822	402.505	12.138	0.14555	6137.1
25.9389	0.8976	-0.0292	0.89807	0.42024	404.043	12.178	0.14559	6139.4
25.8216	0.8976	-0.0255	0.89801	0.42225	405.398	12.213	0.14563	6141.5
25.7042	0.8977	-0.0219	0.89796	0.42425	406.575	12.244	0.14567	6143.0
25.5868	0.8977	-0.0183	0.89792	0.42625	407.573	12.270	0.14570	6144.5
25.4695	0.8978	-0.0146	0.89789	0.42825	408.394	12.292	0.14572	6145.7
25.3521	0.8978	-0.0110	0.89786	0.43025	409.038	12.309	0.14574	6146.5
25.2347	0.8978	-0.0073	0.89784	0.43227	409.504	12.321	0.14575	6147.3
25.1174	0.8978	-0.0037	0.89783	0.43429	409.789	12.328	0.14576	6147.7
25.0000	0.8978	-0.0000	0.89783	0.43633	409.891	12.331	0.14576	6147.8

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.0841 ENTRPHY=29.0293
GAMMA (AVG.)=1.3465 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.0841	0.7977	-0.2939	0.83708	0.33912	3.652	2.375	0.51583	376.9
16.1257	0.8017	-0.2284	0.83355	0.35296	3.741	2.416	0.52013	379.5
15.1673	0.8052	-0.2034	0.83051	0.36635	3.818	2.452	0.52385	381.7
14.2089	0.8084	-0.1786	0.82788	0.37956	3.885	2.482	0.52709	383.5
13.2505	0.8111	-0.1539	0.82559	0.39277	3.944	2.509	0.52991	385.2
12.2921	0.8134	-0.1292	0.82363	0.40614	3.994	2.532	0.53234	386.6
11.3336	0.8154	-0.1042	0.82198	0.41979	4.037	2.552	0.53439	387.8
10.3752	0.8168	-0.0789	0.82064	0.43386	4.072	2.567	0.53605	388.7
9.4168	0.8179	-0.0532	0.81963	0.44847	4.098	2.579	0.53730	389.4
8.4584	0.8185	-0.0269	0.81897	0.46379	4.115	2.587	0.53810	389.9
7.5000	0.8187	0.0000	0.81871	0.47997	4.122	2.590	0.53840	390.0

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=34.1903 ENTRPHY=29.3181
GAMMA (AVG.)=1.3900 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.1903	0.8271	-0.1697	0.84772	0.37586	9.736	3.026	0.41662	464.6
33.2213	0.8292	-0.1471	0.84583	0.38623	9.844	3.067	0.41874	467.0
32.2522	0.8310	-0.1487	0.84418	0.39636	9.940	3.103	0.42059	469.2
31.2832	0.8326	-0.1304	0.84274	0.40637	10.024	3.134	0.42220	471.0
30.3142	0.8340	-0.1121	0.84149	0.41636	10.097	3.162	0.42360	472.6
29.3451	0.8352	-0.0939	0.84043	0.42640	10.160	3.185	0.42479	474.0
28.3761	0.8361	-0.0755	0.83954	0.43657	10.213	3.205	0.42578	475.1
27.4071	0.8369	-0.0570	0.83883	0.44694	10.255	3.220	0.42658	476.0
26.4380	0.8374	-0.0383	0.83830	0.45758	10.286	3.232	0.42717	476.7
25.4690	0.8377	-0.0193	0.83796	0.46856	10.306	3.239	0.42754	477.1
24.5000	0.8378	0.0000	0.83783	0.47997	10.313	3.242	0.42768	477.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTROPY=28.8157

FLW PROPERTIES

SHOCK ANGLE=32.7951 ENTRPHY=29.6874
GAMMA (AVG.)=1.3782 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.7951	0.8406	-0.1504	0.85393	0.39534	8.417	3.601	0.36330	572.8
32.2656	0.8419	-0.1353	0.85269	0.40381	8.550	3.643	0.36463	575.3
31.7361	0.8431	-0.1203	0.85160	0.41212	8.688	3.679	0.36580	577.4
31.2066	0.8441	-0.1055	0.85065	0.42035	8.772	3.711	0.36682	579.3
30.6771	0.8450	-0.0906	0.84982	0.42855	8.862	3.739	0.36771	581.0
30.1475	0.8457	-0.0758	0.84912	0.43677	8.940	3.762	0.36846	582.3
29.6180	0.8463	-0.0609	0.84854	0.44508	9.004	3.782	0.36908	583.5
29.0885	0.8468	-0.0459	0.84807	0.45350	9.056	3.798	0.36958	584.4
28.5590	0.8472	-0.0308	0.84773	0.46209	9.094	3.809	0.36994	585.1
28.0295	0.8474	-0.0155	0.84751	0.47089	9.118	3.816	0.37017	585.5
27.5000	0.8474	0.0000	0.84743	0.47997	9.126	3.819	0.37025	585.7

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5177.7 FT./SEC. ENTROPY=28.8157

FLW PROPERTIES

SHOCK ANGLE=31.9955 ENTRPHY=30.0983
GAMMA (AVG.)=1.3631 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9955	0.8481	-0.1294	0.85788	0.40702	11.894	4.095	0.33000	699.9
31.5459	0.8490	-0.1164	0.85696	0.41434	11.857	4.137	0.33096	702.5
31.0964	0.8499	-0.1035	0.85615	0.42155	12.001	4.173	0.33180	704.7
30.6468	0.8506	-0.0907	0.85545	0.42868	12.127	4.206	0.33254	706.7
30.1973	0.8513	-0.0779	0.85483	0.43578	12.238	4.234	0.33318	708.4
29.7477	0.8518	-0.0651	0.85431	0.44291	12.332	4.258	0.33372	709.9
29.2982	0.8523	-0.0523	0.85380	0.45008	12.410	4.277	0.33416	711.1
28.8486	0.8526	-0.0394	0.85354	0.45733	12.473	4.293	0.33452	712.0
28.3991	0.8529	-0.0264	0.85328	0.46471	12.518	4.305	0.33478	712.7
27.9495	0.8530	-0.0133	0.85312	0.47224	12.547	4.312	0.33494	713.1
27.5000	0.8531	0.0000	0.85306	0.47997	12.557	4.315	0.33500	713.3

CBONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.1193 ENTRØPY=30.9567
GAMMA (AVG.)=1.3342 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.1193	0.8561	-0.1057	0.86258	0.42027	20.037	4.889	0.29053	1004.5
30.7574	0.8567	-0.0951	0.86197	0.42628	20.269	4.931	0.29115	1007.4
30.3954	0.8573	-0.0845	0.86143	0.43220	20.474	4.969	0.29169	1009.9
30.0335	0.8578	-0.0740	0.86095	0.43807	20.655	5.002	0.29217	1012.1
29.6716	0.8582	-0.0636	0.86054	0.44392	20.813	5.030	0.29258	1014.1
29.3096	0.8586	-0.0531	0.86019	0.44978	20.947	5.054	0.29293	1015.7
28.9477	0.8588	-0.0426	0.85990	0.45566	21.058	5.074	0.29322	1017.0
28.5858	0.8591	-0.0321	0.85960	0.46160	21.146	5.090	0.29345	1018.1
28.2238	0.8592	-0.0215	0.85951	0.46761	21.211	5.102	0.29362	1018.9
27.8619	0.8593	-0.0108	0.85940	0.47373	21.251	5.109	0.29372	1019.4
27.5000	0.8594	0.0000	0.85936	0.47997	21.265	5.112	0.29376	1019.5

CBONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=1.690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.02 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=30.6508 ENTRØPY=31.8004
GAMMA (AVG.)=1.3149 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.6508	0.8603	-0.0927	0.86527	0.42756	30.766	5.497	0.26823	1371.8
30.3357	0.8608	-0.0834	0.86479	0.43284	31.080	5.539	0.26870	1375.1
30.0207	0.8612	-0.0742	0.86438	0.43805	31.359	5.577	0.26911	1378.1
29.7056	0.8616	-0.0649	0.86401	0.44322	31.605	5.610	0.26948	1380.6
29.3905	0.8619	-0.0557	0.86369	0.44837	31.819	5.639	0.26979	1382.9
29.0754	0.8622	-0.0465	0.86343	0.45353	32.001	5.664	0.27006	1384.8
28.7603	0.8624	-0.0373	0.86320	0.45870	32.151	5.684	0.27028	1386.3
28.4452	0.8626	-0.0281	0.86303	0.46391	32.270	5.700	0.27045	1387.5
28.1301	0.8627	-0.0188	0.86290	0.46918	32.357	5.712	0.27058	1388.4
27.8151	0.8628	-0.0094	0.86282	0.47453	32.411	5.719	0.27066	1389.0
27.5000	0.8628	0.0000	0.86279	0.47997	32.430	5.721	0.27068	1389.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 12355.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=30.3646 ENTRPHY=32.6015

GAMMA (AVG.)=1.3036 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.3646	0.8628	-0.0847	0.86697	0.43209	43.881	5.967	0.25428	1802.3
10.0781	0.8632	-0.0762	0.86658	0.43691	44.291	6.010	0.25467	1806.2
29.7917	0.8636	-0.0677	0.86623	0.44168	44.656	6.048	0.25502	1809.7
29.5052	0.8639	-0.0593	0.86592	0.44641	44.977	6.081	0.25532	1812.7
29.2187	0.8642	-0.0509	0.86566	0.45112	45.256	6.110	0.25559	1815.3
28.9323	0.8644	-0.0425	0.86543	0.45584	45.494	6.134	0.25581	1817.6
28.6458	0.8646	-0.0341	0.86525	0.46057	45.690	6.155	0.25599	1819.4
28.3594	0.8647	-0.0256	0.86510	0.46533	45.845	6.171	0.25614	1820.8
28.0729	0.8648	-0.0171	0.86499	0.47014	45.958	6.182	0.25624	1821.9
27.7864	0.8649	-0.0086	0.86493	0.47502	46.028	6.190	0.25631	1822.5
27.5000	0.8649	0.0000	0.86490	0.47997	46.054	6.192	0.25633	1822.7

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 14414.5 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=30.1763 ENTRPHY=33.3520

GAMMA (AVG.)=1.2971 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.1763	0.8645	-0.0794	0.86812	0.43510	59.382	6.332	0.24699	2298.5
29.9067	0.8648	-0.0714	0.86777	0.43962	59.902	6.374	0.24534	2303.1
29.6410	0.8651	-0.0635	0.86746	0.44409	60.365	6.412	0.24564	2307.2
29.3734	0.8654	-0.0556	0.86720	0.44852	60.773	6.446	0.24591	2310.7
29.1058	0.8657	-0.0477	0.86696	0.45295	61.127	6.475	0.24614	2313.8
28.8381	0.8659	-0.0398	0.86677	0.45737	61.429	6.499	0.24634	2316.4
28.5705	0.8660	-0.0319	0.86660	0.46181	61.678	6.520	0.24650	2318.6
28.3029	0.8661	-0.0240	0.86647	0.46627	61.875	6.536	0.24662	2320.2
28.0352	0.8662	-0.0161	0.86638	0.47078	62.018	6.547	0.24672	2321.5
27.7676	0.8663	-0.0081	0.86632	0.47534	62.107	6.554	0.24677	2322.2
27.5000	0.8663	0.0000	0.86630	0.47997	62.138	6.557	0.24680	2322.5

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRØPY=20.8157

FLOW PROPERTIES

SHOCK ANGLE=29.8717 ENTRØPY=34.1371
GAMMA (AVG.)=1.1433 STAG. ENTHALPY=1.3034E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
29.8717	0.8671	-0.0709	0.87003	0.43979	77.251	7.026	0.21700	2661.3
29.6345	0.8674	-0.0637	0.86975	0.44387	77.861	7.073	0.21718	2663.9
29.3974	0.8677	-0.0566	0.86951	0.44791	78.402	7.115	0.21734	2666.1
29.1602	0.8679	-0.0496	0.86929	0.45190	78.877	7.153	0.21747	2667.7
28.9230	0.8681	-0.0425	0.86911	0.45588	79.290	7.184	0.21758	2669.7
28.6858	0.8682	-0.0355	0.86895	0.45984	79.640	7.212	0.21768	2671.2
28.4487	0.8684	-0.0284	0.86882	0.46381	79.928	7.235	0.21777	2672.1
28.2115	0.8685	-0.0214	0.86872	0.46780	80.155	7.253	0.21783	2672.9
27.9743	0.8685	-0.0143	0.86864	0.47181	80.320	7.265	0.21787	2673.5
27.7372	0.8686	-0.0072	0.86860	0.47586	80.421	7.273	0.21790	2674.1
27.5000	0.8686	0.0000	0.86858	0.47997	80.458	7.276	0.21792	2674.0

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=29.5764 ENTRØPY=34.8803
GAMMA (AVG.)=1.1302 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
29.5764	0.8697	-0.0623	0.87193	0.44465	97.551	7.918	0.20231	2914.6
29.3687	0.8699	-0.0561	0.87171	0.44823	98.222	7.965	0.20246	2916.9
29.1611	0.8701	-0.0498	0.87152	0.45178	98.819	8.007	0.20260	2918.9
28.9534	0.8703	-0.0436	0.87136	0.45529	99.344	8.044	0.20271	2920.6
28.7458	0.8704	-0.0374	0.87121	0.45879	99.799	8.076	0.20281	2922.2
28.5382	0.8705	-0.0312	0.87109	0.46228	100.185	8.103	0.20289	2923.3
28.3305	0.8706	-0.0250	0.87099	0.46577	100.503	8.125	0.20296	2924.3
28.1229	0.8707	-0.0188	0.87091	0.46928	100.753	8.143	0.20301	2925.2
27.9153	0.8708	-0.0125	0.87085	0.47281	100.935	8.156	0.20305	2925.8
27.7076	0.8708	-0.0063	0.87082	0.47637	101.046	8.163	0.20307	2926.2
27.5000	0.8708	-0.0000	0.87080	0.47996	101.086	8.166	0.20308	2926.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=29.3493 ENTRØPY=35.6210
GAMMA (AVG.)=1.1372 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
29.3493	0.8716	-0.0557	0.87342	0.44843	120.242	8.800	0.19187	3152.4
29.1644	0.8718	-0.0501	0.87325	0.45162	120.976	8.846	0.19200	3154.6
28.9795	0.8720	-0.0445	0.87310	0.45478	121.629	8.888	0.19211	3156.3
28.7945	0.8721	-0.0390	0.87297	0.45792	122.203	8.924	0.19221	3158.1
28.6096	0.8722	-0.0334	0.87285	0.46105	122.702	8.956	0.19230	3159.5
28.4247	0.8723	-0.0279	0.87275	0.46417	123.125	8.983	0.19237	3160.6
28.2397	0.8724	-0.0223	0.87267	0.46729	123.473	9.005	0.19243	3161.6
28.0548	0.8725	-0.0168	0.87261	0.47043	123.747	9.022	0.19248	3162.3
27.8699	0.8725	-0.0112	0.87257	0.47358	123.945	9.035	0.19251	3162.9
27.6849	0.8725	-0.0056	0.87254	0.47675	124.067	9.042	0.19253	3163.4
27.5000	0.8725	-0.0000	0.87253	0.47996	124.111	9.045	0.19254	3163.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=29.1824 ENTRØPY=36.3649
GAMMA (AVG.)=1.1592 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
29.1824	0.8731	-0.0508	0.87454	0.45125	145.324	9.605	0.18498	3395.4
29.0142	0.8732	-0.0457	0.87440	0.45415	146.126	9.651	0.18510	3397.5
28.8459	0.8733	-0.0406	0.87428	0.45702	146.842	9.691	0.18520	3399.5
28.6777	0.8734	-0.0355	0.87417	0.45988	147.472	9.725	0.18530	3401.5
28.5094	0.8735	-0.0305	0.87407	0.46273	148.019	9.757	0.18537	3402.7
28.3412	0.8736	-0.0254	0.87399	0.46558	148.483	9.784	0.18545	3403.9
28.1729	0.8737	-0.0203	0.87392	0.46842	148.865	9.805	0.18551	3404.8
28.0047	0.8737	-0.0153	0.87387	0.47128	149.165	9.821	0.18556	3406.0
27.8365	0.8738	-0.0102	0.87383	0.47415	149.382	9.834	0.18559	3406.3
27.6682	0.8738	-0.0051	0.87381	0.47705	149.516	9.842	0.18561	3406.7
27.5000	0.8738	0.0000	0.87380	0.47997	149.564	9.844	0.18561	3407.0

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=29.0700 ENTRPHY=37.1180
GAMMA (AVG.)=1.1902 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0700	0.8740	-0.0474	0.87531	0.45315	172.789	10.244	0.18120	3676.1
28.9130	0.8741	-0.0427	0.87519	0.45585	173.576	10.288	0.18132	3678.5
28.7560	0.8743	-0.0379	0.87508	0.45853	174.467	10.328	0.18142	3680.5
28.5990	0.8744	-0.0332	0.87498	0.46120	175.165	10.363	0.18151	3682.4
28.4420	0.8744	-0.0285	0.87490	0.46386	175.770	10.393	0.18159	3684.1
28.2850	0.8745	-0.0237	0.87483	0.46652	176.284	10.419	0.18166	3685.6
28.1280	0.8746	-0.0190	0.87477	0.46918	176.708	10.439	0.18172	3686.8
27.9710	0.8746	-0.0143	0.87472	0.47186	177.040	10.456	0.18175	3687.8
27.8140	0.8746	-0.0095	0.87469	0.47454	177.281	10.468	0.18178	3688.4
27.6570	0.8747	-0.0048	0.87467	0.47724	177.428	10.476	0.18181	3688.6
27.5000	0.8747	0.0000	0.87466	0.47997	177.481	10.478	0.18181	3688.9

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=29.0173 ENTRPHY=37.8896
GAMMA (AVG.)=1.2193 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0173	0.8745	-0.0459	0.87567	0.45405	202.632	10.578	0.18037	4051.3
28.8606	0.8746	-0.0413	0.87556	0.45666	203.635	10.619	0.18049	4054.7
28.7039	0.8747	-0.0367	0.87546	0.45925	204.530	10.656	0.18060	4057.9
28.5471	0.8748	-0.0321	0.87537	0.46183	205.320	10.689	0.18069	4060.6
28.3904	0.8749	-0.0275	0.87529	0.46440	206.005	10.719	0.18077	4062.6
28.2337	0.8749	-0.0230	0.87522	0.46697	206.587	10.743	0.18084	4064.6
28.0769	0.8750	-0.0184	0.87517	0.46954	207.067	10.762	0.18090	4066.5
27.9202	0.8750	-0.0138	0.87512	0.47212	207.443	10.778	0.18094	4067.7
27.7635	0.8750	-0.0092	0.87509	0.47472	207.715	10.789	0.18098	4068.7
27.6067	0.8751	-0.0046	0.87507	0.47733	207.882	10.797	0.18099	4069.1
27.5000	0.8751	0.0000	0.87507	0.47997	207.942	10.799	0.18100	4069.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=29.0389 ENTROPY=38.6935
GAMMA (AVG.)=1.2218 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
29.0389	0.8743	-0.0465	0.87552	0.45369	234.840	10.440	0.18175	4614.7
28.8850	0.8744	-0.0418	0.87541	0.45633	236.021	10.482	0.18186	4618.3
28.7311	0.8745	-0.0372	0.87530	0.45896	237.074	10.520	0.18195	4621.5
28.5772	0.8746	-0.0325	0.87521	0.46157	238.003	10.554	0.18203	4624.3
28.4233	0.8747	-0.0279	0.87513	0.46418	238.810	10.584	0.18210	4626.7
28.2694	0.8748	-0.0233	0.87506	0.46678	239.495	10.608	0.18216	4628.8
28.1156	0.8748	-0.0186	0.87500	0.46939	240.059	10.629	0.18221	4630.4
27.9617	0.8748	-0.0140	0.87496	0.47201	240.502	10.645	0.18224	4631.6
27.8078	0.8749	-0.0094	0.87493	0.47464	240.823	10.657	0.18227	4632.7
27.6539	0.8749	-0.0047	0.87491	0.47729	241.020	10.664	0.18229	4633.2
27.5000	0.8749	-0.0000	0.87490	0.47996	241.090	10.667	0.18229	4633.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=29.8157

FLOW PROPERTIES

SHOCK ANGLE=28.9960 ENTROPY=39.4872
GAMMA (AVG.)=1.1900 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
28.9960	0.8747	-0.0453	0.87582	0.45439	269.438	10.713	0.17693	5052.0
28.8464	0.8748	-0.0407	0.87571	0.45696	270.757	10.757	0.17700	5055.3
28.6968	0.8749	-0.0362	0.87561	0.45952	271.934	10.797	0.17707	5058.2
28.5472	0.8750	-0.0317	0.87552	0.46206	272.972	10.832	0.17713	5060.8
28.3976	0.8750	-0.0272	0.87545	0.46460	273.873	10.863	0.17718	5063.0
28.2480	0.8751	-0.0227	0.87538	0.46714	274.638	10.889	0.17722	5065.0
28.0984	0.8751	-0.0181	0.87533	0.46968	275.268	10.910	0.17726	5066.6
27.9488	0.8752	-0.0136	0.87529	0.47223	275.762	10.927	0.17729	5067.7
27.7992	0.8752	-0.0091	0.87526	0.47479	276.120	10.939	0.17731	5068.7
27.6496	0.8752	-0.0046	0.87524	0.47736	276.339	10.946	0.17732	5069.2
27.5000	0.8752	-0.0000	0.87523	0.47996	276.418	10.948	0.17732	5069.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=45.00 ALTITUDE=125000.0 FEET PRESSURE=7.753E-03 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
 VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SEMI-ANGLE=28.8564 ENTROPY=41.6444
 GAMMA (AVG.)=1.1521 STAG. ENTHALPY=8.5196E 08 FT. S²/SEC. SQ.

ETA	VR	VN	V	THETA	P	KHZ	MU	T (K)
28.7291	0.8769	-0.0373	0.87770	0.45086	366.413	11.731	0.16598	5915.6
28.4082	0.8770	-0.0336	0.87762	0.46098	353.041	11.776	0.16604	5914.3
28.4833	0.8770	-0.0299	0.87755	0.46309	343.493	11.815	0.16610	5920.7
28.3604	0.8771	-0.0261	0.87749	0.46520	333.774	11.852	0.16615	5922.7
28.2375	0.8772	-0.0224	0.87744	0.46730	324.823	11.889	0.16617	5924.5
28.1145	0.8772	-0.0187	0.87740	0.46940	317.604	11.909	0.16623	5926.0
27.9916	0.8772	-0.0150	0.87736	0.47149	311.604	11.930	0.16625	5927.2
27.8687	0.8773	-0.0112	0.87733	0.47360	306.213	11.947	0.16629	5928.2
27.7458	0.8773	-0.0075	0.87731	0.47571	301.093	11.959	0.16630	5929.0
27.6229	0.8773	-0.0038	0.87730	0.47783	296.322	11.967	0.16631	5929.3
27.5000	0.8773	0.0000	0.87729	0.47997	291.819	11.970	0.16631	5929.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41184.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SEMI-ANGLE=28.7291 ENTROPY=43.4550
 GAMMA (AVG.)=1.1403 STAG. ENTHALPY=8.5073E 08 FT. S²/SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
28.7291	0.8769	-0.0373	0.87770	0.45086	478.327	12.071	0.15735	6532.2
28.4082	0.8770	-0.0336	0.87762	0.46098	480.250	12.916	0.15741	6534.6
28.4833	0.8770	-0.0299	0.87755	0.46309	481.965	12.957	0.15746	6536.5
28.3604	0.8771	-0.0261	0.87749	0.46520	483.478	12.992	0.15750	6538.3
28.2375	0.8772	-0.0224	0.87744	0.46730	484.791	13.023	0.15754	6540.1
28.1145	0.8772	-0.0187	0.87740	0.46940	485.905	13.049	0.15757	6541.4
27.9916	0.8772	-0.0150	0.87736	0.47149	486.821	13.070	0.15760	6542.5
27.8687	0.8773	-0.0112	0.87733	0.47360	487.539	13.087	0.15762	6543.3
27.7458	0.8773	-0.0075	0.87731	0.47571	488.058	13.100	0.15763	6543.9
27.6229	0.8773	-0.0038	0.87730	0.47783	488.375	13.107	0.15764	6544.3
27.5000	0.8773	0.0000	0.87729	0.47997	488.489	13.110	0.15764	6544.4

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.8271 ENTROPY=29.0949

GAMMA (AVG.)=1.3953 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8271	0.7679	-0.2510	0.80787	0.37919	4.143	2.551	0.55266	397.9
38.8444	0.7719	-0.2258	0.80427	0.39343	4.236	2.592	0.55734	400.5
37.8616	0.7755	-0.2009	0.80116	0.40730	4.318	2.628	0.56141	402.6
36.8789	0.7787	-0.1763	0.79845	0.42103	4.389	2.659	0.56497	404.5
35.8962	0.7815	-0.1517	0.79610	0.43479	4.452	2.686	0.56807	406.1
34.9135	0.7839	-0.1270	0.79409	0.44871	4.505	2.710	0.57074	407.5
33.9308	0.7858	-0.1022	0.79240	0.46292	4.551	2.729	0.57298	408.7
32.9481	0.7873	-0.0770	0.79104	0.47754	4.587	2.745	0.57479	409.6
31.9654	0.7883	-0.0515	0.79001	0.49271	4.614	2.756	0.57614	410.3
30.9827	0.7890	-0.0254	0.78936	0.50855	4.632	2.764	0.57700	410.7
30.0000	0.7891	0.0013	0.78911	0.52522	4.638	2.766	0.57730	410.9

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=36.8984 ENTROPY=29.4361

GAMMA (AVG.)=1.3866 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8984	0.7996	-0.1859	0.82097	0.41558	6.574	3.230	0.44725	498.9
36.2085	0.8018	-0.1672	0.81901	0.42631	6.691	3.271	0.44953	501.4
35.5187	0.8036	-0.1488	0.81730	0.43682	6.793	3.307	0.45153	503.5
34.8288	0.8053	-0.1305	0.81580	0.44722	6.884	3.338	0.45327	505.3
34.1390	0.8067	-0.1122	0.81450	0.45761	6.962	3.366	0.45478	506.9
33.4492	0.8080	-0.0939	0.81339	0.46806	7.030	3.389	0.45607	508.3
32.7593	0.8089	-0.0755	0.81247	0.47864	7.086	3.409	0.45715	509.4
32.0695	0.8097	-0.0570	0.81173	0.48941	7.131	3.425	0.45801	510.3
31.3797	0.8103	-0.0383	0.81118	0.50045	7.165	3.436	0.45864	511.0
30.6898	0.8106	-0.0193	0.81083	0.51182	7.186	3.444	0.45904	511.4
30.0000	0.8107	0.0000	0.81069	0.52360	7.194	3.446	0.45919	511.6

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=35.5167 ENTRPHY=29.8563
GAMMA (AVG.)=1.3721 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.5167	0.8139	-0.1522	0.82802	0.43505	9.710	3.818	0.39156	623.9
34.9650	0.8153	-0.1369	0.82670	0.44390	9.863	3.859	0.39300	626.4
34.4133	0.8165	-0.1218	0.82555	0.45260	9.991	3.896	0.39426	628.6
33.8617	0.8176	-0.1067	0.82454	0.46121	10.104	3.928	0.39537	630.5
33.3100	0.8185	-0.0917	0.82367	0.46981	10.203	3.955	0.39632	632.2
32.7583	0.8193	-0.0767	0.82292	0.47843	10.287	3.979	0.39714	633.6
32.2067	0.8200	-0.0616	0.82230	0.48713	10.357	3.999	0.39782	634.7
31.6550	0.8205	-0.0464	0.82181	0.49595	10.413	4.015	0.39835	635.7
31.1033	0.8209	-0.0311	0.82145	0.50494	10.454	4.026	0.39875	636.4
30.5517	0.8211	-0.0157	0.82122	0.51414	10.480	4.033	0.39899	636.8
30.0000	0.8211	0.0000	0.82113	0.52360	10.489	4.036	0.39908	636.9

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=34.7203 ENTRPHY=30.3117
GAMMA (AVG.)=1.3552 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.7203	0.8219	-0.1320	0.83245	0.44677	13.561	4.315	0.35681	770.2
34.2483	0.8229	-0.1187	0.83146	0.45447	13.740	4.357	0.35786	772.8
33.7762	0.8239	-0.1056	0.83059	0.46205	13.898	4.394	0.35877	775.1
33.3042	0.8247	-0.0925	0.82983	0.46957	14.038	4.427	0.35958	777.2
32.8322	0.8254	-0.0795	0.82917	0.47706	14.159	4.455	0.36027	778.9
32.3601	0.8259	-0.0664	0.82861	0.48457	14.262	4.479	0.36086	780.4
31.8881	0.8264	-0.0533	0.82815	0.49214	14.348	4.499	0.36135	781.6
31.4161	0.8268	-0.0402	0.82778	0.49979	14.416	4.515	0.36173	782.6
30.9441	0.8271	-0.0269	0.82751	0.50756	14.467	4.526	0.36202	783.3
30.4720	0.8272	-0.0135	0.82733	0.51548	14.478	4.533	0.36219	783.8
30.0000	0.8273	0.0000	0.82727	0.52360	14.509	4.536	0.36226	783.9

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=33.8402 ENTRØPY=31.2416
GAMMA (AVG.)=1.3267 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.8402	0.8306	-0.1090	0.83770	0.46014	23.348	5.109	0.31580	1120.0
33.4562	0.8313	-0.0980	0.83703	0.46652	23.605	5.152	0.31648	1123.0
33.0722	0.8319	-0.0872	0.83644	0.47281	23.834	5.189	0.31708	1125.7
32.6881	0.8324	-0.0763	0.83591	0.47906	24.035	5.222	0.31760	1128.0
32.3041	0.8329	-0.0655	0.83546	0.48528	24.210	5.251	0.31806	1130.0
31.9201	0.8333	-0.0547	0.83508	0.49151	24.360	5.275	0.31845	1131.7
31.5361	0.8336	-0.0439	0.83476	0.49777	24.483	5.295	0.31876	1133.1
31.1520	0.8339	-0.0331	0.83451	0.50409	24.581	5.311	0.31902	1134.2
30.7680	0.8340	-0.0221	0.83433	0.51048	24.653	5.323	0.31920	1135.1
30.3840	0.8341	-0.0111	0.83421	0.51698	24.697	5.330	0.31931	1135.6
30.0000	0.8342	0.0000	0.83417	0.52360	24.713	5.333	0.31935	1135.7

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=33.3689 ENTRØPY=32.1396
GAMMA (AVG.)=1.3095 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.3689	0.8351	-0.0964	0.84068	0.46750	35.933	5.707	0.29286	1543.1
33.0320	0.8357	-0.0867	0.84016	0.47314	36.285	5.750	0.29339	1546.6
32.6951	0.8361	-0.0771	0.83969	0.47872	36.598	5.787	0.29385	1549.8
32.3582	0.8366	-0.0675	0.83928	0.48426	36.873	5.821	0.29426	1552.5
32.0213	0.8369	-0.0579	0.83893	0.48977	37.113	5.850	0.29461	1554.9
31.6844	0.8372	-0.0484	0.83863	0.49529	37.317	5.874	0.29490	1556.9
31.3475	0.8375	-0.0388	0.83838	0.50084	37.486	5.894	0.29515	1558.6
31.0106	0.8377	-0.0292	0.83819	0.50642	37.619	5.910	0.29534	1559.9
30.6738	0.8378	-0.0195	0.83805	0.51206	37.717	5.922	0.29548	1560.9
30.3369	0.8379	-0.0098	0.83796	0.51778	37.777	5.929	0.29557	1561.4
30.0000	0.8379	0.0000	0.83792	0.52360	37.799	5.932	0.29560	1561.7

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=33.0825 ENTRPHY=32.9823

GAMMA AVG.=1.2999 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
33.0825	0.8379	-0.0886	0.84255	0.47204	51.316	6.160	0.27668	2041.5
32.7743	0.8383	-0.0797	0.84211	0.47723	51.779	6.203	0.27912	2045.7
32.5660	0.8387	-0.0709	0.84172	0.48236	52.191	6.241	0.27951	2049.5
32.3578	0.8391	-0.0620	0.84137	0.48745	52.554	6.274	0.27985	2052.8
31.9495	0.8394	-0.0532	0.84107	0.49253	52.869	6.303	0.28014	2055.6
31.5413	0.8396	-0.0444	0.84082	0.49761	53.137	6.328	0.28039	2058.0
31.1330	0.8399	-0.0356	0.84061	0.50271	53.359	6.348	0.28060	2060.0
30.7247	0.8400	-0.0268	0.84044	0.50784	53.535	6.364	0.28076	2061.5
30.3165	0.8401	-0.0179	0.84032	0.51302	53.662	6.376	0.28088	2062.7
30.1082	0.8402	-0.0090	0.84025	0.51827	53.741	6.383	0.28095	2063.4
30.0000	0.8402	0.0000	0.84022	0.52360	53.769	6.386	0.28098	2063.6

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=32.7960 ENTRPHY=33.8220

GAMMA AVG.=1.1602 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
32.7960	0.8406	-0.0810	0.84449	0.47637	69.470	6.490	0.25086	2537.1
32.5164	0.8410	-0.0728	0.84412	0.48117	70.049	6.736	0.25110	2540.4
32.2368	0.8413	-0.0647	0.84379	0.48590	70.563	6.778	0.25130	2542.9
31.9572	0.8416	-0.0566	0.84350	0.49059	71.015	6.814	0.25149	2545.5
31.6776	0.8418	-0.0486	0.84325	0.49526	71.406	6.846	0.25163	2547.5
31.3980	0.8421	-0.0405	0.84304	0.49992	71.739	6.872	0.25177	2549.3
31.1184	0.8422	-0.0325	0.84286	0.50458	72.013	6.894	0.25189	2550.7
30.8388	0.8424	-0.0244	0.84272	0.50926	72.229	6.912	0.25198	2551.8
30.5592	0.8425	-0.0163	0.84262	0.51399	72.386	6.925	0.25203	2552.5
30.2796	0.8425	-0.0082	0.84256	0.51876	72.482	6.933	0.25206	2552.8
30.0000	0.8425	-0.0000	0.84254	0.52360	72.517	6.935	0.25208	2553.1

CONE SEMI-ANGLE=30.0
 FREE STREAM CONDITIONS

MACH NØ=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.00 DEG. K
 VELOCITY= 16473.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=32.4158 ENTRØPY=34.6313
 GAMMA (AVG.)=1.1322 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
32.4158	0.8442	-0.0704	0.84711	0.48258	90.468	7.617	0.23072	2831.5
32.1742	0.8445	-0.0633	0.84682	0.48675	91.119	7.665	0.23089	2833.6
31.9326	0.8447	-0.0562	0.84657	0.49086	91.697	7.706	0.23106	2835.8
31.6911	0.8449	-0.0492	0.84636	0.49494	92.205	7.743	0.23121	2837.9
31.4495	0.8451	-0.0422	0.84617	0.49900	92.646	7.775	0.23134	2839.2
31.2079	0.8453	-0.0352	0.84601	0.50306	93.020	7.802	0.23143	2840.7
30.9663	0.8454	-0.0282	0.84587	0.50711	93.328	7.825	0.23153	2841.5
30.7247	0.8455	-0.0212	0.84577	0.51119	93.571	7.842	0.23159	2842.6
30.4831	0.8456	-0.0142	0.84570	0.51528	93.747	7.854	0.23165	2843.4
30.2416	0.8456	-0.0071	0.84565	0.51942	93.855	7.863	0.23168	2843.6
30.0000	0.8456	0.0000	0.84563	0.52360	93.894	7.865	0.23168	2843.7

CONE SEMI-ANGLE=30.0
 FREE STREAM CONDITIONS

MACH NØ=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.00 DEG. K
 VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=32.1172 ENTRØPY=35.4334
 GAMMA (AVG.)=1.1340 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
32.1172	0.8470	-0.0619	0.84922	0.48754	114.273	8.583	0.21649	3092.4
31.9054	0.8472	-0.0557	0.84900	0.49119	114.990	8.629	0.21665	3094.6
31.6937	0.8474	-0.0495	0.84881	0.49481	115.629	8.670	0.21680	3096.5
31.4820	0.8475	-0.0433	0.84864	0.49840	116.190	8.706	0.21692	3098.3
31.2703	0.8477	-0.0372	0.84850	0.50197	116.677	8.738	0.21703	3099.7
31.0586	0.8478	-0.0310	0.84837	0.50554	117.091	8.765	0.21712	3100.8
30.8468	0.8479	-0.0248	0.84827	0.50911	117.431	8.787	0.21719	3101.8
30.6351	0.8480	-0.0187	0.84819	0.51269	117.699	8.805	0.21725	3102.6
30.4234	0.8480	-0.0125	0.84813	0.51630	117.892	8.816	0.21730	3103.5
30.2117	0.8481	-0.0062	0.84810	0.51993	118.012	8.826	0.21732	3103.2
30.0000	0.8481	0.0000	0.84808	0.52360	118.054	8.828	0.21733	3103.7

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.9001 ENTROPY=36.2376
GAMMA (AVG.)=1.1547 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9001	0.8490	-0.0558	0.85080	0.49118	140.879	9.477	0.20722	3352.0
31.7101	0.8491	-0.0502	0.85062	0.49445	141.669	9.522	0.20735	3354.5
31.5201	0.8493	-0.0446	0.85047	0.49770	142.372	9.563	0.20748	3356.3
31.3301	0.8494	-0.0390	0.85033	0.50092	142.992	9.599	0.20759	3357.8
31.1400	0.8496	-0.0335	0.85021	0.50414	143.530	9.630	0.20769	3359.4
30.9500	0.8497	-0.0279	0.85011	0.50735	143.987	9.656	0.20779	3360.6
30.7600	0.8497	-0.0224	0.85003	0.51056	144.363	9.677	0.20785	3361.9
30.5700	0.8498	-0.0168	0.84996	0.51379	144.658	9.695	0.20791	3362.5
30.3800	0.8498	-0.0112	0.84992	0.51703	144.872	9.707	0.20794	3363.1
30.1900	0.8499	-0.0056	0.84989	0.52030	145.003	9.715	0.20796	3363.5
30.0000	0.8499	-0.0000	0.84987	0.52360	145.050	9.718	0.20798	3363.5

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.7558 ENTROPY=37.0514
GAMMA (AVG.)=1.1873 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7558	0.8503	-0.0516	0.85186	0.49362	170.283	10.197	0.20213	3648.8
31.5802	0.8504	-0.0464	0.85171	0.49664	171.162	10.243	0.20227	3650.6
31.4046	0.8506	-0.0413	0.85158	0.49963	171.945	10.282	0.20238	3653.3
31.2290	0.8507	-0.0361	0.85146	0.50261	172.636	10.317	0.20249	3655.1
31.0535	0.8508	-0.0310	0.85136	0.50559	173.236	10.347	0.20259	3656.5
30.8779	0.8509	-0.0258	0.85127	0.50856	173.746	10.372	0.20267	3658.3
30.7023	0.8510	-0.0207	0.85120	0.51154	174.165	10.394	0.20274	3659.3
30.5267	0.8510	-0.0155	0.85115	0.51452	174.495	10.411	0.20279	3660.1
30.3511	0.8510	-0.0104	0.85111	0.51752	174.733	10.423	0.20281	3660.6
30.1756	0.8511	-0.0052	0.85108	0.52055	174.879	10.430	0.20284	3661.0
30.0000	0.8511	-0.0000	0.85107	0.52359	174.932	10.433	0.20284	3661.3

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NB.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.6887 ENTROPY=37.8858
 GAMMA (AVG.)=1.2192 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6887	0.8509	-0.0497	0.85236	0.49477	202.483	10.577	0.20093	4048.9
31.5198	0.8511	-0.0447	0.85222	0.49767	203.485	10.619	0.20108	4052.5
31.3509	0.8512	-0.0397	0.85210	0.50055	204.380	10.656	0.20120	4055.4
31.1821	0.8513	-0.0348	0.85199	0.50342	205.169	10.690	0.20131	4058.0
31.0132	0.8514	-0.0298	0.85190	0.50628	205.854	10.719	0.20141	4060.2
30.8443	0.8515	-0.0249	0.85182	0.50914	206.436	10.743	0.20149	4062.3
30.6754	0.8515	-0.0199	0.85175	0.51200	206.915	10.764	0.20155	4063.5
30.5066	0.8516	-0.0150	0.85170	0.51487	207.291	10.779	0.20160	4065.0
30.3377	0.8516	-0.0100	0.85166	0.51776	207.563	10.790	0.20164	4066.0
30.1688	0.8516	-0.0050	0.85164	0.52067	207.730	10.797	0.20166	4066.6
30.0000	0.8516	0.0000	0.85163	0.52360	207.789	10.799	0.20167	4067.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NB.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.7112 ENTROPY=38.7557
 GAMMA (AVG.)=1.2209 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7112	0.8507	-0.0503	0.85219	0.49439	237.458	10.448	0.20233	4652.0
31.5401	0.8508	-0.0453	0.85205	0.49733	238.650	10.491	0.20244	4655.3
31.3690	0.8510	-0.0402	0.85193	0.50024	239.714	10.539	0.20255	4658.5
31.1978	0.8511	-0.0352	0.85181	0.50315	240.653	10.563	0.20263	4661.1
31.0267	0.8512	-0.0302	0.85172	0.50605	241.468	10.593	0.20271	4663.5
30.8556	0.8513	-0.0252	0.85164	0.50894	242.160	10.618	0.20278	4665.5
30.6845	0.8513	-0.0202	0.85157	0.51185	242.731	10.639	0.20283	4666.9
30.5133	0.8514	-0.0152	0.85152	0.51476	243.178	10.655	0.20287	4668.2
30.3422	0.8514	-0.0101	0.85148	0.51768	243.502	10.667	0.20290	4669.3
30.1711	0.8514	-0.0051	0.85145	0.52063	243.701	10.674	0.20292	4669.7
30.0000	0.8514	0.0000	0.85144	0.52360	243.772	10.677	0.20292	4670.0

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 249.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=3: 4553 ENTRPHY=39.6156
GAMMA (AVG.)=1.1858 STAG. ENTHALPHY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5553	0.8512	-0.0487	0.85261	0.49530	275.233	10.769	0.19617	5122.0
31.4897	0.8514	-0.0438	0.85248	0.49815	276.572	10.813	0.19626	5125.2
31.3242	0.8515	-0.0390	0.85236	0.50098	277.768	10.853	0.19634	5128.2
31.1587	0.8516	-0.0341	0.85226	0.50379	278.822	10.889	0.19641	5130.7
30.9931	0.8517	-0.0292	0.85217	0.50660	279.737	10.919	0.19647	5132.8
30.8276	0.8517	-0.0244	0.85209	0.50941	280.514	10.945	0.19652	5134.7
30.6621	0.8518	-0.0195	0.85203	0.51222	281.154	10.966	0.19656	5136.2
30.4966	0.8519	-0.0147	0.85198	0.51504	281.656	10.983	0.19660	5137.4
30.3310	0.8519	-0.0098	0.85194	0.51787	282.019	10.995	0.19662	5138.3
30.1655	0.8519	-0.0049	0.85192	0.52072	282.242	11.003	0.19664	5138.8
30.0000	0.8519	-0.0000	0.85191	0.52360	282.322	11.005	0.19664	5139.0

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 249.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.5885 ENTRPHY=40.4691
GAMMA (AVG.)=1.1864 STAG. ENTHALPHY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5885	0.8518	-0.0468	0.85312	0.49641	315.817	11.187	0.19065	5526.1
31.4296	0.8520	-0.0421	0.85299	0.49915	317.293	11.232	0.19074	5529.0
31.2708	0.8521	-0.0374	0.85288	0.50187	318.611	11.273	0.19081	5531.4
31.1119	0.8522	-0.0328	0.85279	0.50457	319.772	11.308	0.19088	5533.8
30.9531	0.8522	-0.0281	0.85270	0.50728	320.780	11.339	0.19094	5535.7
30.7942	0.8523	-0.0234	0.85263	0.50997	321.636	11.365	0.19098	5537.4
30.6354	0.8524	-0.0188	0.85258	0.51267	322.340	11.386	0.19102	5538.7
30.4765	0.8524	-0.0141	0.85253	0.51538	322.893	11.403	0.19105	5539.9
30.3177	0.8524	-0.0094	0.85250	0.51810	323.292	11.415	0.19108	5540.6
30.1588	0.8525	-0.0047	0.85248	0.52084	323.537	11.423	0.19109	5541.1
30.0000	0.8525	0.0000	0.85247	0.52360	323.625	11.425	0.19110	5541.2

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.4237 ENTROPY=42.6045

GAMMA (AVG.)=1.1428 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMØ	MU	T (K)
31.4237	0.8533	-0.0421	0.85437	0.49917	429.540	12.588	0.17886	6295.3
31.2813	0.8534	-0.0379	0.85427	0.50163	431.339	12.433	0.17893	6297.8
31.1390	0.8535	-0.0336	0.85418	0.50407	432.944	12.474	0.17899	6299.9
30.9966	0.8536	-0.0294	0.85411	0.50651	434.360	12.509	0.17905	6301.7
30.8542	0.8537	-0.0253	0.85404	0.50894	435.588	12.540	0.17909	6303.5
30.7118	0.8537	-0.0211	0.85398	0.51136	436.631	12.566	0.17913	6304.8
30.5695	0.8538	-0.0169	0.85393	0.51379	437.488	12.588	0.17917	6305.9
30.4271	0.8538	-0.0127	0.85390	0.51622	438.160	12.605	0.17919	6306.8
30.2847	0.8538	-0.0085	0.85387	0.51867	438.646	12.617	0.17921	6307.7
30.1424	0.8538	-0.0042	0.85385	0.52112	438.944	12.624	0.17922	6308.0
30.0000	0.8538	-0.0000	0.85385	0.52360	439.050	12.627	0.17923	6308.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=31.2875 ENTROPY=44.8266

GAMMA (AVG.)=1.1424 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMØ	MU	T (K)
31.2875	0.8546	-0.0381	0.85542	0.50147	560.777	13.618	0.17023	6864.6
31.1587	0.8547	-0.0343	0.85534	0.50370	562.897	13.662	0.17029	6867.0
31.0300	0.8547	-0.0305	0.85527	0.50591	564.790	13.702	0.17034	6868.9
30.9012	0.8548	-0.0267	0.85520	0.50812	566.459	13.737	0.17039	6870.6
30.7725	0.8548	-0.0229	0.85515	0.51032	567.908	13.768	0.17043	6872.1
30.6437	0.8549	-0.0191	0.85510	0.51252	569.137	13.794	0.17047	6873.4
30.5150	0.8549	-0.0153	0.85506	0.51472	570.148	13.816	0.17049	6874.4
30.3862	0.8550	-0.0115	0.85503	0.51692	570.940	13.832	0.17052	6875.3
30.2575	0.8550	-0.0077	0.85501	0.51914	571.512	13.845	0.17053	6875.8
30.1287	0.8550	-0.0038	0.85500	0.52136	571.862	13.852	0.17054	6876.1
30.0000	0.8550	0.0000	0.85499	0.52360	571.987	13.854	0.17055	6876.4

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.5703 ENTRBPY=29.1640
GAMMA IAVG.=1.3938 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.5703	0.7364	-0.2492	0.77737	0.41670	4.642	2.715	0.59388	419.1
43.5633	0.7405	-0.2243	0.77369	0.43131	4.740	2.756	0.59903	421.6
40.5563	0.7442	-0.1997	0.77049	0.44560	4.825	2.791	0.60355	423.7
39.5492	0.7474	-0.1754	0.76770	0.45979	4.901	2.822	0.60752	425.6
38.5422	0.7502	-0.1510	0.76528	0.47403	4.966	2.849	0.61098	427.2
37.5352	0.7526	-0.1266	0.76320	0.48844	5.023	2.873	0.61396	428.5
36.5281	0.7546	-0.1020	0.76146	0.50314	5.070	2.892	0.61647	429.7
35.5211	0.7561	-0.0772	0.76005	0.51824	5.109	2.908	0.61850	430.6
34.5140	0.7572	-0.0520	0.75900	0.53387	5.138	2.920	0.62002	431.3
33.5070	0.7579	-0.0263	0.75831	0.55016	5.156	2.927	0.62099	431.7
32.5000	0.7580	0.0000	0.75805	0.56723	5.163	2.930	0.62136	431.9

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.6723 ENTRBPY=29.5584
GAMMA IAVG.=1.3827 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
39.6723	0.7697	-0.1867	0.79197	0.45445	7.459	3.419	0.48189	534.6
38.9550	0.7719	-0.1680	0.78992	0.46560	7.584	3.461	0.48440	537.1
38.2378	0.7738	-0.1495	0.78812	0.47657	7.694	3.497	0.48660	539.2
37.5206	0.7755	-0.1311	0.78654	0.48744	7.790	3.528	0.48852	541.1
36.8033	0.7770	-0.1127	0.78518	0.49831	7.875	3.556	0.49020	542.7
36.0861	0.7783	-0.0943	0.78401	0.50925	7.947	3.580	0.49163	544.1
35.3689	0.7794	-0.0758	0.78304	0.52031	8.007	3.599	0.49282	545.2
34.6517	0.7802	-0.0572	0.78227	0.53158	8.055	3.615	0.49377	546.1
33.9344	0.7807	-0.0384	0.78169	0.54311	8.091	3.626	0.49447	546.8
33.2172	0.7811	-0.0194	0.78133	0.55497	8.113	3.634	0.49491	547.2
32.5000	0.7812	0.0000	0.78118	0.56723	8.122	3.636	0.49507	547.4

CONE SEMI-ANGLE=32.5
 FREE STREAM CONDITIONS
 MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.4815 ENTRPHY=30.5221
 GAMMA (AVG.)=1.3478 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.4815	0.7935	-0.1347	0.80488	0.48598	15.530	4.516	0.38640	842.8
36.9833	0.7946	-0.1212	0.80382	0.49411	15.724	4.558	0.38756	845.5
36.4852	0.7956	-0.1078	0.80288	0.50212	15.897	4.595	0.38857	847.9
35.9870	0.7965	-0.0944	0.80206	0.51007	16.049	4.628	0.38946	850.0
35.4889	0.7972	-0.0811	0.80134	0.51801	16.182	4.656	0.39023	851.8
34.9907	0.7979	-0.0678	0.80074	0.52596	16.295	4.680	0.39089	853.3
34.4926	0.7984	-0.0544	0.80024	0.53397	16.389	4.700	0.39143	854.6
33.9944	0.7988	-0.0410	0.79984	0.54207	16.463	4.716	0.39186	855.6
33.4963	0.7991	-0.0274	0.79954	0.55029	16.518	4.727	0.39217	856.3
32.9981	0.7992	-0.0138	0.79936	0.55866	16.552	4.735	0.39237	856.8
32.5000	0.7993	0.0000	0.79929	0.56723	16.564	4.737	0.39244	856.9

CONE SEMI-ANGLE=32.5
 FREE STREAM CONDITIONS
 MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=38.2853 ENTRPHY=30.0261
 GAMMA (AVG.)=1.3658 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.2853	0.7849	-0.1543	0.79992	0.47411	11.090	4.016	0.42301	676.8
37.7068	0.7864	-0.1388	0.79852	0.48339	11.247	4.057	0.42460	679.4
37.1282	0.7877	-0.1235	0.79729	0.49253	11.386	4.094	0.42599	681.6
36.5497	0.7888	-0.1082	0.79621	0.50160	11.508	4.126	0.42721	683.6
35.9712	0.7898	-0.0930	0.79528	0.51065	11.615	4.154	0.42827	685.3
35.3926	0.7907	-0.0777	0.79448	0.51973	11.706	4.178	0.42917	686.7
34.8141	0.7914	-0.0624	0.79382	0.52889	11.782	4.198	0.42992	687.9
34.2356	0.7919	-0.0470	0.79330	0.53818	11.842	4.213	0.43052	688.8
33.6570	0.7923	-0.0315	0.79291	0.54763	11.887	4.225	0.43095	689.5
33.0785	0.7925	-0.0159	0.79267	0.55730	11.915	4.232	0.43122	690.0
32.5000	0.7926	0.0000	0.79257	0.56724	11.925	4.235	0.43132	690.1

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRPHY=28.8157

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRPHY=28.8157

FLW PROPERTIES

SHOCK ANGLE=36.5881 ENTRPHY=31.5164
GAMMA (AVG.)=1.3205 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

FLW PROPERTIES

SHOCK ANGLE=36.1107 ENTRPHY=32.4625
GAMMA (AVG.)=1.3052 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5881	0.8029	-0.1123	0.81075	0.49959	26.835	5.307	0.34340	1239.3	36.1107	0.8079	-0.1000	0.81404	0.50706	41.373	5.892	0.31976	1721.0
16.1793	0.8037	-0.1010	0.81001	0.50638	27.119	5.349	0.34424	1242.5	35.7498	0.8085	-0.0900	0.81346	0.51311	41.765	5.934	0.32036	1724.8
15.7705	0.8044	-0.0898	0.80936	0.51309	27.371	5.387	0.34491	1245.3	35.3886	0.8090	-0.0800	0.81294	0.51908	42.113	5.972	0.32088	1728.1
15.3617	0.8049	-0.0787	0.80878	0.51974	27.593	5.420	0.34550	1247.8	35.0275	0.8095	-0.0700	0.81248	0.52502	42.420	6.006	0.32134	1731.1
14.9528	0.8055	-0.0675	0.80829	0.52638	27.787	5.449	0.34601	1249.9	34.6664	0.8099	-0.0601	0.81209	0.53094	42.686	6.035	0.32173	1733.6
14.5440	0.8059	-0.0564	0.80787	0.53303	27.952	5.473	0.34645	1251.7	34.3053	0.8102	-0.0502	0.81176	0.53686	42.913	6.059	0.32207	1735.8
14.1352	0.8062	-0.0453	0.80752	0.53971	28.088	5.493	0.34681	1253.1	33.9443	0.8105	-0.0403	0.81148	0.54281	43.101	6.079	0.32235	1737.5
13.7264	0.8065	-0.0341	0.80724	0.54644	28.196	5.509	0.34709	1254.3	33.5832	0.8107	-0.0303	0.81126	0.54880	43.250	6.095	0.32257	1738.9
13.3176	0.8067	-0.0228	0.80704	0.55326	28.275	5.521	0.34729	1255.2	33.2221	0.8109	-0.0203	0.81110	0.55486	43.358	6.107	0.32273	1739.9
12.9088	0.8068	-0.0114	0.80691	0.56018	28.324	5.528	0.34742	1255.7	32.8610	0.8109	-0.0102	0.81100	0.56099	43.425	6.114	0.32283	1740.6
12.5000	0.8069	-0.0000	0.80687	0.56723	28.341	5.531	0.34747	1255.9	32.5000	0.8110	-0.0000	0.81097	0.56723	43.449	6.117	0.32286	1740.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=35.8229 ENTROPY=33.3417
GAMMA (AVG.)=1.2971 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.8229	0.8108	-0.0925	0.81608	0.51163	59.144	6.327	0.30525	2290.9
35.4906	0.8113	-0.0832	0.81558	0.51722	59.662	6.370	0.30575	2295.5
35.1584	0.8118	-0.0740	0.81514	0.52275	60.124	6.408	0.30619	2299.6
34.8261	0.8122	-0.0648	0.81475	0.52824	60.530	6.441	0.30658	2303.1
34.4938	0.8125	-0.0556	0.81442	0.53372	60.883	6.470	0.30692	2306.2
34.1615	0.8128	-0.0464	0.81413	0.53920	61.184	6.495	0.30721	2308.8
33.8292	0.8130	-0.0372	0.81390	0.54470	61.432	6.515	0.30744	2310.9
33.4969	0.8132	-0.0280	0.81371	0.55024	61.628	6.531	0.30763	2312.6
33.1646	0.8134	-0.0187	0.81357	0.55583	61.771	6.543	0.30776	2313.9
32.8323	0.8134	-0.0094	0.81349	0.56149	61.859	6.550	0.30784	2314.6
32.5000	0.8135	0.0000	0.81346	0.56723	61.891	6.552	0.30788	2314.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=35.3765 ENTROPY=34.2481
GAMMA (AVG.)=1.1399 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.3765	0.8154	-0.0809	0.81937	0.51853	80.120	7.156	0.26637	2700.2
35.0488	0.8157	-0.0727	0.81898	0.52348	80.739	7.204	0.26663	2702.5
34.8012	0.8161	-0.0646	0.81864	0.52836	81.288	7.246	0.26686	2704.8
34.5135	0.8164	-0.0566	0.81834	0.53320	81.771	7.283	0.26704	2706.6
34.2259	0.8166	-0.0485	0.81808	0.53801	82.190	7.315	0.26721	2708.3
33.9382	0.8169	-0.0405	0.81786	0.54282	82.545	7.343	0.26736	2709.7
33.6506	0.8170	-0.0324	0.81768	0.54763	82.839	7.365	0.26749	2710.8
33.3629	0.8172	-0.0244	0.81754	0.55247	83.069	7.383	0.26758	2711.5
33.0753	0.8173	-0.0163	0.81744	0.55733	83.236	7.396	0.26764	2712.2
32.7876	0.8173	-0.0082	0.81738	0.56225	83.340	7.404	0.26768	2712.4
32.5000	0.8174	-0.0000	0.81735	0.56723	83.377	7.407	0.26769	2712.7

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NB.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.6 FT./SEC. ENTRAPPY=28.8157

FLW PROPERTIES

SHOCK ANGLE=34.9703 ENTRAPPY=35.1113
GAMMA (AVG.)=1.1306 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.9703	0.8194	-0.0699	0.82242	0.52523	104.373	8.197	0.24614	2989.7
36.4233	0.8197	-0.0629	0.82214	0.52948	105.063	8.245	0.24635	2991.7
34.4762	0.8200	-0.0559	0.82188	0.53369	105.677	8.286	0.24653	2993.8
34.2292	0.8202	-0.0489	0.82166	0.53787	106.217	8.323	0.24668	2995.7
33.8058	0.8204	-0.0419	0.82147	0.54203	106.685	8.355	0.24683	2997.1
33.7151	0.8206	-0.0350	0.82131	0.54619	107.083	8.381	0.24694	2998.5
33.4681	0.8207	-0.0280	0.82117	0.55035	107.410	8.404	0.24702	2999.4
33.2411	0.8208	-0.0211	0.82107	0.55452	107.667	8.422	0.24710	3000.0
32.9940	0.8209	-0.0141	0.82099	0.55872	107.854	8.434	0.24716	3000.7
32.7470	0.8209	-0.0071	0.82094	0.56295	107.968	8.442	0.24719	3000.9
32.5000	0.8209	0.0000	0.82092	0.56724	108.010	8.444	0.24721	3001.3

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NB.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRAPPY=28.8157

FLW PROPERTIES

SHOCK ANGLE=34.6763 ENTRAPPY=35.9737
GAMMA (AVG.)=1.1461 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.6763	0.8224	-0.0619	0.82470	0.53014	131.862	9.197	0.23285	3265.5
34.4586	0.8226	-0.0556	0.82448	0.53388	132.627	9.243	0.23302	3267.5
34.2410	0.8228	-0.0494	0.82428	0.53760	133.308	9.285	0.23318	3269.1
34.0234	0.8230	-0.0433	0.82411	0.54129	133.908	9.321	0.23332	3270.7
33.8058	0.8231	-0.0371	0.82396	0.54497	134.429	9.352	0.23344	3272.2
33.5881	0.8232	-0.0310	0.82383	0.54864	134.871	9.378	0.23354	3273.5
33.3705	0.8233	-0.0248	0.82372	0.55232	135.235	9.399	0.23362	3274.9
33.1529	0.8234	-0.0186	0.82364	0.55601	135.520	9.417	0.23369	3275.6
32.9352	0.8235	-0.0124	0.82358	0.55972	135.727	9.430	0.23373	3275.9
32.7176	0.8235	-0.0062	0.82354	0.56346	135.855	9.437	0.23376	3276.4
32.5000	0.8235	0.0000	0.82353	0.56723	135.900	9.440	0.23376	3276.3

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=34.4789 ENTROPY=36.8443

GAMMA (AVG.)=1.1784 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4789	0.8243	-0.0564	0.82626	0.53346	162.586	10.038	0.22529	3567.9
34.2810	0.8245	-0.0507	0.82607	0.53686	163.440	10.083	0.22545	3570.2
34.0931	0.8247	-0.0451	0.82591	0.54024	164.201	10.123	0.22560	3572.3
33.9052	0.8248	-0.0395	0.82577	0.54360	164.873	10.157	0.22573	3574.3
33.6873	0.8249	-0.0338	0.82564	0.54695	165.455	10.188	0.22584	3575.9
33.4994	0.8251	-0.0282	0.82554	0.55030	165.950	10.214	0.22593	3577.0
33.2915	0.8251	-0.0226	0.82545	0.55365	166.357	10.235	0.22601	3578.3
33.0936	0.8252	-0.0170	0.82538	0.55701	166.677	10.252	0.22607	3579.0
32.8957	0.8253	-0.0113	0.82533	0.56039	166.909	10.263	0.22611	3579.9
32.6979	0.8253	-0.0057	0.82530	0.56380	167.051	10.272	0.22613	3579.9
32.5000	0.8253	0.0000	0.82529	0.56723	167.102	10.273	0.22615	3580.4

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=34.3752 ENTROPY=37.7344

GAMMA (AVG.)=1.2153 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.3752	0.8254	-0.0535	0.82709	0.53523	196.538	10.553	0.22278	3962.3
34.1876	0.8255	-0.0481	0.82692	0.53844	197.514	10.595	0.22294	3965.5
34.0001	0.8257	-0.0428	0.82678	0.54164	198.384	10.633	0.22308	3968.1
33.8126	0.8258	-0.0375	0.82665	0.54482	199.152	10.667	0.22322	3970.5
33.6251	0.8259	-0.0321	0.82653	0.54800	199.818	10.697	0.22333	3972.5
33.4376	0.8260	-0.0268	0.82644	0.55117	200.385	10.722	0.22342	3974.2
33.2501	0.8261	-0.0215	0.82636	0.55435	200.851	10.741	0.22350	3975.9
33.0625	0.8261	-0.0161	0.82630	0.55754	201.217	10.757	0.22355	3977.0
32.8750	0.8262	-0.0108	0.82625	0.56075	201.482	10.768	0.22360	3977.9
32.6875	0.8262	-0.0054	0.82623	0.56398	201.644	10.776	0.22363	3978.5
32.5000	0.8262	-0.0000	0.82621	0.56723	201.702	10.778	0.22364	3978.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=34.3978 ENTRØPY=38.6663
GAMMA (AVG.)=1.2221 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.3978	0.8251	-0.0541	0.82691	0.53485	233.706	10.437	0.222466	4598.1
34.2080	0.8253	-0.0487	0.82674	0.53810	234.881	10.480	0.222481	4601.7
34.0182	0.8255	-0.0433	0.82659	0.54134	235.929	10.518	0.222494	4604.9
33.8285	0.8256	-0.0379	0.82645	0.54456	236.853	10.552	0.222506	4607.7
33.6387	0.8257	-0.0325	0.82634	0.54777	237.656	10.581	0.222515	4610.2
33.4489	0.8258	-0.0271	0.82624	0.55098	238.338	10.606	0.222524	4612.2
33.2591	0.8259	-0.0217	0.82616	0.55420	238.900	10.626	0.222531	4614.0
33.0693	0.8259	-0.0163	0.82610	0.55743	239.341	10.642	0.222537	4615.2
32.8795	0.8260	-0.0109	0.82605	0.56067	239.660	10.654	0.222540	4615.2
32.6897	0.8260	-0.0055	0.82602	0.56394	239.856	10.661	0.222543	4616.8
32.5000	0.8260	-0.0000	0.82601	0.56723	239.926	10.663	0.222544	4617.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=34.3357 ENTRØPY=39.5906
GAMMA (AVG.)=1.1866 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.3357	0.8257	-0.0524	0.82741	0.53586	274.102	10.758	0.21776	5108.6
34.1521	0.8259	-0.0472	0.82725	0.53902	275.437	10.803	0.21787	5111.9
33.9685	0.8260	-0.0419	0.82711	0.54215	276.629	10.842	0.21796	5114.8
33.7850	0.8262	-0.0367	0.82698	0.54527	277.680	10.878	0.21805	5117.4
33.6014	0.8263	-0.0315	0.82688	0.54839	278.593	10.908	0.21812	5119.6
33.4178	0.8264	-0.0262	0.82678	0.55150	279.367	10.934	0.21818	5121.5
33.2343	0.8264	-0.0210	0.82671	0.55462	280.005	10.955	0.21823	5122.9
33.0507	0.8265	-0.0158	0.82665	0.55774	280.506	10.972	0.21827	5124.2
32.8671	0.8265	-0.0105	0.82661	0.56088	280.868	10.984	0.21830	5125.0
32.6835	0.8266	-0.0053	0.82658	0.56404	281.090	10.992	0.21832	5125.5
32.5000	0.8266	-0.0000	0.82657	0.56723	281.170	10.994	0.21832	5125.7

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=34.2557 ENTRØPY=40.5072
GAMMA (AVG.)=1.1657 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.2557	0.8265	-0.0502	0.82806	0.53719	317.737	11.208	0.21112	5543.0
34.0801	0.8267	-0.0452	0.82791	0.54021	319.219	11.252	0.21122	5545.9
33.9045	0.8268	-0.0402	0.82778	0.54321	320.541	11.293	0.21131	5548.4
33.7290	0.8269	-0.0351	0.82767	0.54621	321.707	11.328	0.21139	5550.7
33.5534	0.8270	-0.0301	0.82757	0.54919	322.719	11.359	0.21146	5552.6
33.3778	0.8271	-0.0251	0.82748	0.55217	323.579	11.385	0.21152	5554.3
33.2023	0.8272	-0.0201	0.82741	0.55516	324.286	11.406	0.21156	5555.6
33.0267	0.8272	-0.0151	0.82736	0.55815	324.840	11.423	0.21160	5556.9
32.8511	0.8273	-0.0101	0.82732	0.56116	325.242	11.435	0.21163	5557.5
32.6755	0.8273	-0.0051	0.82730	0.56418	325.488	11.443	0.21164	5557.9
32.5000	0.8273	-0.0000	0.82729	0.56723	325.576	11.445	0.21165	5558.1

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=34.1742 ENTRØPY=41.4159
GAMMA (AVG.)=1.1525 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.1742	0.8273	-0.0480	0.82872	0.53855	364.609	11.712	0.20507	5903.4
34.0068	0.8275	-0.0431	0.82859	0.54143	366.232	11.757	0.20516	5905.9
33.8394	0.8276	-0.0383	0.82847	0.54430	367.679	11.797	0.20524	5908.4
33.6719	0.8277	-0.0336	0.82837	0.54716	368.956	11.832	0.20531	5910.6
33.5045	0.8278	-0.0288	0.82828	0.55001	370.063	11.863	0.20537	5912.3
33.3371	0.8279	-0.0240	0.82820	0.55286	371.003	11.889	0.20543	5913.8
33.1697	0.8279	-0.0192	0.82814	0.55571	371.777	11.911	0.20547	5915.0
33.0022	0.8280	-0.0144	0.82809	0.55857	372.384	11.928	0.20550	5916.0
32.8348	0.8280	-0.0096	0.82805	0.56144	372.822	11.940	0.20553	5916.8
32.6674	0.8280	-0.0048	0.82803	0.56432	373.091	11.947	0.20554	5917.3
32.5000	0.8280	-0.0000	0.82802	0.56725	373.187	11.950	0.20555	5917.3

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 36036.4 FT./SEC. ENTRPHY=28.8157

FLW PROPERTIES

SHOCK ANGLE=33.9923 ENTRPHY=43.7546

GAMMA AVG.=1.1402 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
33.9923	0.8293	-0.0429	0.83022	0.54161	495.949	13.039	0.19273	6609.0
33.8431	0.8292	-0.0386	0.83011	0.54419	497.914	13.084	0.19281	6611.3
33.6939	0.8293	-0.0343	0.83002	0.54675	499.668	13.124	0.19287	6613.3
33.5446	0.8294	-0.0300	0.82994	0.54930	501.215	13.159	0.19293	6615.2
33.3954	0.8295	-0.0257	0.82986	0.55185	502.557	13.190	0.19298	6616.8
33.2462	0.8295	-0.0215	0.82980	0.55440	503.696	13.216	0.19302	6618.0
33.0969	0.8296	-0.0172	0.82975	0.55695	504.633	13.238	0.19306	6619.1
32.9477	0.8296	-0.0129	0.82971	0.55950	505.367	13.255	0.19309	6620.0
32.7985	0.8296	-0.0086	0.82968	0.56206	505.898	13.267	0.19311	6620.5
32.6492	0.8297	-0.0043	0.82967	0.56464	506.223	13.274	0.19312	6620.9
32.5000	0.8297	0.0000	0.82966	0.56723	506.339	13.277	0.19312	6621.1

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41184.4 FT./SEC. ENTRPHY=28.8157

FLW PROPERTIES

SHOCK ANGLE=33.8544 ENTRPHY=46.1968

GAMMA AVG.=1.1497 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
33.8544	0.8305	-0.0390	0.83137	0.54394	647.502	14.285	0.18451	7168.7
33.7189	0.8305	-0.0351	0.83128	0.54628	649.826	14.329	0.18457	7171.1
33.5835	0.8306	-0.0312	0.83120	0.54861	651.901	14.369	0.18463	7172.9
33.4480	0.8307	-0.0273	0.83114	0.55093	653.732	14.404	0.18468	7174.7
33.3126	0.8307	-0.0234	0.83108	0.55325	655.321	14.435	0.18473	7176.4
33.1772	0.8308	-0.0195	0.83103	0.55557	656.670	14.460	0.18477	7177.7
33.0417	0.8308	-0.0156	0.83098	0.55788	657.778	14.482	0.18480	7178.6
32.9063	0.8309	-0.0117	0.83095	0.56020	658.647	14.499	0.18483	7179.5
32.7708	0.8309	-0.0078	0.83093	0.56253	659.274	14.511	0.18484	7180.1
32.6354	0.8309	-0.0039	0.83091	0.56487	659.658	14.518	0.18485	7180.6
32.5000	0.8309	0.0000	0.83071	0.56723	659.796	14.521	0.18486	7180.6

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRBPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=45.4770 ENTRBPPY=29.2390
GAMMA (AVG.)=1.3920 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4770	0.7011	-0.2481	0.74369	0.45364	5.176	2.874	0.64343	441.4
44.4293	0.7054	-0.2233	0.73989	0.46879	5.279	2.914	0.64931	443.9
43.3816	0.7092	-0.1989	0.73655	0.48368	5.369	2.950	0.65450	446.0
42.3339	0.7125	-0.1746	0.73364	0.49851	5.448	2.981	0.65907	447.8
41.2862	0.7155	-0.1504	0.73111	0.51341	5.517	3.008	0.66307	449.4
40.2385	0.7180	-0.1260	0.72894	0.52850	5.577	3.032	0.66693	450.8
39.1908	0.7200	-0.1015	0.72712	0.54390	5.627	3.051	0.66943	451.9
38.1431	0.7216	-0.0768	0.72565	0.55972	5.667	3.067	0.67178	452.8
37.0954	0.7227	-0.0517	0.72455	0.57607	5.697	3.079	0.67354	453.5
36.0477	0.7234	-0.0261	0.72384	0.59307	5.717	3.086	0.67466	454.0
35.0000	0.7236	0.0000	0.72357	0.61087	5.724	3.089	0.67508	454.1

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRBPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.5161 ENTRBPPY=29.6832
GAMMA (AVG.)=1.3784 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5161	0.7370	-0.1879	0.76062	0.49237	8.365	3.596	0.52149	571.5
41.7645	0.7393	-0.1691	0.75845	0.50405	8.518	3.637	0.52431	574.0
41.0129	0.7414	-0.1505	0.75654	0.51555	8.635	3.673	0.52679	576.2
40.2613	0.7432	-0.1320	0.75487	0.52698	8.738	3.705	0.52897	578.0
39.5097	0.7448	-0.1135	0.75343	0.53841	8.828	3.732	0.53087	579.7
38.7580	0.7462	-0.0949	0.75219	0.54992	8.905	3.756	0.53249	581.1
38.0064	0.7473	-0.0763	0.75116	0.56157	8.970	3.776	0.53384	582.2
37.2548	0.7481	-0.0576	0.75034	0.57342	9.021	3.792	0.53492	583.1
36.5032	0.7487	-0.0386	0.74973	0.58555	9.059	3.803	0.53571	583.8
35.7516	0.7491	-0.0195	0.74934	0.59800	9.083	3.810	0.53621	584.2
35.0000	0.7492	0.0000	0.74919	0.61087	9.092	3.813	0.53640	584.4

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.1039 ENTRPHY=30.1948

GAMMA (AVG.)=1.3595 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.1039	0.7535	-0.1566	0.76959	0.51244	12.523	4.197	0.45937	731.3
40.4935	0.7551	-0.1409	0.76809	0.52222	12.692	4.239	0.46015	733.9
39.8831	0.7565	-0.1254	0.76677	0.53187	12.842	4.275	0.46173	736.2
39.2727	0.7577	-0.1099	0.76561	0.54145	12.975	4.308	0.46311	738.2
38.6623	0.7588	-0.0944	0.76461	0.55103	13.090	4.336	0.46430	739.9
38.0519	0.7597	-0.0789	0.76375	0.56064	13.188	4.360	0.46533	741.3
37.4415	0.7604	-0.0634	0.76304	0.57034	13.270	4.380	0.46617	742.6
36.8311	0.7610	-0.0477	0.76248	0.58016	13.335	4.395	0.46684	743.5
36.2207	0.7614	-0.0320	0.76206	0.59016	13.383	4.407	0.46733	744.2
35.6103	0.7616	-0.0161	0.76180	0.60038	13.412	4.414	0.46764	744.7
35.0000	0.7617	-0.0000	0.76170	0.61086	13.423	4.417	0.46776	744.8

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=40.2823 ENTRPHY=30.7277

GAMMA (AVG.)=1.3411 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2823	0.7628	-0.1376	0.77515	0.52460	17.585	4.699	0.41938	917.2
39.7540	0.7640	-0.1238	0.77400	0.53321	17.796	4.741	0.42069	920.0
39.2258	0.7651	-0.1101	0.77298	0.54171	17.984	4.778	0.42183	922.5
38.6976	0.7660	-0.0964	0.77209	0.55016	18.149	4.811	0.42284	924.6
38.1693	0.7669	-0.0828	0.77131	0.55858	18.293	4.839	0.42372	926.5
37.6411	0.7675	-0.0692	0.77066	0.56704	18.416	4.863	0.42446	928.1
37.1129	0.7681	-0.0556	0.77011	0.57555	18.518	4.883	0.42507	929.4
36.5847	0.7685	-0.0418	0.76968	0.58415	18.599	4.899	0.42556	930.4
36.0564	0.7689	-0.0280	0.76936	0.59288	18.658	4.911	0.42591	931.1
35.5282	0.7690	-0.0141	0.76916	0.60177	18.695	4.918	0.42614	931.6
35.0000	0.7691	0.0000	0.76908	0.61087	18.708	4.921	0.42622	931.8

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.3672 ENTROPY=31.7802
GAMMA (AVG.)=1.3153 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.3672	0.7731	-0.1157	0.78169	0.53857	30.474	5.484	0.37410	1362.0
38.9304	0.7739	-0.1041	0.78088	0.54581	30.785	5.526	0.37497	1365.3
38.4937	0.7747	-0.0925	0.78016	0.55297	31.062	5.564	0.37574	1368.2
38.0570	0.7753	-0.0810	0.77953	0.56009	31.306	5.597	0.37641	1370.8
37.6203	0.7759	-0.0696	0.77898	0.56718	31.518	5.626	0.37699	1373.0
37.1836	0.7763	-0.0581	0.77852	0.57429	31.699	5.650	0.37749	1374.9
36.7469	0.7767	-0.0466	0.77813	0.58144	31.848	5.671	0.37789	1376.5
36.3101	0.7770	-0.0351	0.77783	0.58864	31.966	5.687	0.37821	1377.7
35.8734	0.7773	-0.0235	0.77761	0.59593	32.053	5.698	0.37845	1378.6
35.4367	0.7774	-0.0118	0.77747	0.60333	32.106	5.705	0.37859	1379.1
35.0000	0.7774	0.0000	0.77742	0.61087	32.126	5.708	0.37865	1379.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=38.8805 ENTROPY=32.7691
GAMMA (AVG.)=1.3019 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.8805	0.7784	-0.1037	0.78532	0.54619	47.050	6.054	0.34940	1904.6
38.4925	0.7791	-0.0933	0.78467	0.55267	47.482	6.097	0.35008	1908.6
38.1044	0.7797	-0.0829	0.78409	0.55909	47.866	6.135	0.35068	1912.2
37.7164	0.7802	-0.0726	0.78359	0.56547	48.205	6.168	0.35121	1915.3
37.3283	0.7807	-0.0623	0.78315	0.57184	48.500	6.197	0.35166	1918.0
36.9402	0.7810	-0.0520	0.78278	0.57821	48.750	6.222	0.35205	1920.3
36.5522	0.7814	-0.0417	0.78247	0.58461	48.958	6.242	0.35237	1922.2
36.1641	0.7816	-0.0314	0.78223	0.59105	49.122	6.258	0.35262	1923.7
35.7761	0.7818	-0.0210	0.78205	0.59756	49.241	6.270	0.35280	1924.8
35.3880	0.7819	-0.0105	0.78194	0.60416	49.315	6.277	0.35292	1925.5
35.0000	0.7819	0.0000	0.78190	0.61087	49.341	6.280	0.35296	1925.7

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRBPV=28.8157

FLOW PROPERTIES

SHECK ANGLE=38.4879 ENTRBPV=33.7280
GAMMA (AVG.)=1.1697 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
36.4879	0.7827	-0.0941	0.78837	0.55213	67.280	6.615	0.31344	2488.6
36.1391	0.7833	-0.0846	0.78783	0.55807	67.847	6.661	0.31382	2492.2
37.7003	0.7838	-0.0752	0.78735	0.56395	68.350	6.701	0.31414	2495.4
37.4415	0.7842	-0.0658	0.78693	0.56977	68.793	6.737	0.31441	2498.2
37.0927	0.7845	-0.0564	0.78657	0.57557	69.176	6.768	0.31466	2500.5
36.7439	0.7849	-0.0471	0.78626	0.58136	69.502	6.794	0.31488	2502.4
36.3951	0.7851	-0.0378	0.78601	0.58717	69.771	6.816	0.31504	2504.1
36.0463	0.7853	-0.0284	0.78581	0.59300	69.983	6.833	0.31519	2505.4
35.6975	0.7854	-0.0190	0.78567	0.59888	70.137	6.845	0.31527	2506.3
35.3487	0.7855	-0.0095	0.78558	0.60483	70.232	6.853	0.31533	2506.9
35.0000	0.7855	-0.0000	0.78554	0.61086	70.266	6.855	0.31536	2507.1

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRBPV=28.8157

FLOW PROPERTIES

SHECK ANGLE=37.9534 ENTRBPV=34.6583
GAMMA (AVG.)=1.1318 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
37.9534	0.7885	-0.0804	0.79260	0.56079	91.222	7.649	0.28362	2840.9
37.6581	0.7889	-0.0723	0.79220	0.56586	91.875	7.696	0.28390	2843.3
37.3627	0.7892	-0.0642	0.79185	0.57088	92.455	7.738	0.28416	2845.3
37.0674	0.7895	-0.0562	0.79155	0.57586	92.965	7.776	0.28436	2846.9
36.7720	0.7898	-0.0482	0.79129	0.58082	93.407	7.807	0.28457	2848.5
36.4767	0.7900	-0.0402	0.79106	0.58576	93.783	7.835	0.28472	2849.7
36.1814	0.7902	-0.0322	0.79088	0.59072	94.092	7.857	0.28484	2850.7
35.8860	0.7904	-0.0242	0.79073	0.59569	94.335	7.874	0.28494	2851.8
35.5907	0.7905	-0.0162	0.79063	0.60070	94.512	7.887	0.28502	2852.3
35.2953	0.7905	-0.0081	0.79056	0.60576	94.620	7.895	0.28506	2852.6
35.0000	0.7905	0.0000	0.79054	0.61087	94.659	7.898	0.28507	2853.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.5407 ENTROPY=35.5779
GAMMA (AVG.)=1.1364 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.5407	0.7929	-0.0696	0.79597	0.56762	118.861	8.751	0.26373	3138.6
37.2867	0.7932	-0.0626	0.79567	0.57199	119.590	8.797	0.26396	3140.8
37.0326	0.7935	-0.0556	0.79541	0.57632	120.239	8.838	0.26416	3142.8
36.7785	0.7937	-0.0487	0.79519	0.58062	120.811	8.875	0.26433	3144.4
36.5244	0.7939	-0.0418	0.79499	0.58491	121.306	8.907	0.26448	3145.7
36.2703	0.7941	-0.0348	0.79482	0.58919	121.727	8.933	0.26462	3147.2
36.0163	0.7942	-0.0279	0.79468	0.59347	122.074	8.956	0.26473	3147.8
35.7622	0.7943	-0.0210	0.79458	0.59778	122.346	8.972	0.26482	3148.8
35.5081	0.7944	-0.0140	0.79450	0.60210	122.543	8.985	0.26487	3149.4
35.2540	0.7944	-0.0070	0.79445	0.60646	122.664	8.993	0.26491	3149.6
35.0000	0.7944	0.0000	0.79443	0.61087	122.708	8.995	0.26493	3149.8

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.2595 ENTROPY=36.5023
GAMMA (AVG.)=1.1644 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.2595	0.7959	-0.0622	0.79832	0.57234	150.188	9.737	0.25185	3442.9
37.0336	0.7961	-0.0559	0.79809	0.57622	151.005	9.783	0.25206	3445.0
36.8076	0.7963	-0.0497	0.79788	0.58007	151.733	9.823	0.25223	3447.1
36.5817	0.7965	-0.0435	0.79770	0.58391	152.374	9.858	0.25239	3449.1
36.3557	0.7967	-0.0373	0.79755	0.58773	152.930	9.889	0.25252	3450.5
36.1297	0.7968	-0.0311	0.79741	0.59155	153.403	9.916	0.25263	3451.6
35.9038	0.7969	-0.0249	0.79730	0.59537	153.792	9.936	0.25273	3453.0
35.6778	0.7970	-0.0187	0.79722	0.59921	154.097	9.953	0.25280	3453.7
35.4519	0.7971	-0.0125	0.79715	0.60306	154.319	9.965	0.25286	3454.4
35.2259	0.7971	-0.0063	0.79712	0.60695	154.454	9.972	0.25290	3454.9
35.0000	0.7971	0.0000	0.79710	0.61087	154.503	9.975	0.25290	3454.9

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.9157

FLOW PROPERTIES

SHOCK ANGLE=37.0944 ENTROPY=37.4430
GAMMA (AVG.)=1.2044 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0944	0.7976	-0.0578	0.79973	0.57512	185.197	10.441	0.24668	3817.0
36.8849	0.7979	-0.0520	0.79953	0.57871	186.127	10.484	0.24686	3819.6
36.6755	0.7980	-0.0462	0.79935	0.58228	186.957	10.522	0.24703	3822.2
36.4660	0.7982	-0.0404	0.79920	0.58583	187.689	10.558	0.24718	3824.1
36.2566	0.7983	-0.0347	0.79906	0.58938	188.325	10.587	0.24731	3825.9
36.0472	0.7984	-0.0289	0.79895	0.59292	188.864	10.612	0.24742	3827.5
35.8377	0.7985	-0.0232	0.79885	0.59647	189.309	10.633	0.24751	3828.8
35.6283	0.7986	-0.0174	0.79878	0.60003	189.658	10.649	0.24759	3829.8
35.4188	0.7986	-0.0116	0.79872	0.60361	189.911	10.661	0.24763	3830.6
35.2094	0.7987	-0.0058	0.79869	0.60722	190.066	10.669	0.24767	3830.8
35.0000	0.7987	-0.0000	0.79868	0.61085	190.121	10.671	0.24768	3831.1

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.0904 ENTROPY=38.4265
GAMMA (AVG.)=1.2220 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0904	0.7977	-0.0576	0.79976	0.57521	223.888	10.462	0.24816	4433.5
36.8814	0.7979	-0.0519	0.79956	0.57879	225.009	10.504	0.24836	4437.7
36.6724	0.7981	-0.0461	0.79939	0.58235	226.010	10.541	0.24854	4441.3
36.4633	0.7982	-0.0404	0.79923	0.58590	226.893	10.574	0.24869	4444.4
36.2543	0.7983	-0.0346	0.79910	0.58943	227.660	10.601	0.24883	4447.3
36.0452	0.7985	-0.0289	0.79898	0.59297	228.311	10.625	0.24894	4449.7
35.8362	0.7986	-0.0231	0.79889	0.59651	228.848	10.645	0.24903	4451.8
35.6271	0.7986	-0.0174	0.79881	0.60007	229.268	10.660	0.24911	4453.2
35.4181	0.7987	-0.0116	0.79876	0.60364	229.573	10.672	0.24915	4454.2
35.2090	0.7987	-0.0058	0.79873	0.60724	229.760	10.679	0.24919	4454.8
35.0000	0.7987	0.0000	0.79871	0.61087	229.827	10.681	0.24920	4455.1

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 24710.6 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=37.0427 ENTRØPY=39.4159
 GAMMA (AVG.)=1.1927 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
37.0427	0.7982	-0.0564	0.80017	0.57598	266.245	10.682	0.24236	5012.1
36.8384	0.7984	-0.0507	0.79998	0.57949	267.551	10.726	0.24248	5015.4
36.6342	0.7985	-0.0451	0.79982	0.58297	268.718	10.766	0.24260	5018.4
36.4299	0.7987	-0.0395	0.79967	0.58644	269.746	10.801	0.24270	5021.1
36.2256	0.7988	-0.0339	0.79954	0.58990	270.639	10.832	0.24279	5023.3
35.0213	0.7989	-0.0282	0.79943	0.59336	271.398	10.858	0.24286	5025.1
35.8171	0.7990	-0.0226	0.79934	0.59683	272.022	10.879	0.24292	5026.7
35.6128	0.7991	-0.0170	0.79927	0.60030	272.512	10.896	0.24297	5028.0
35.4085	0.7991	-0.0113	0.79921	0.60380	272.867	10.908	0.24300	5028.9
35.2042	0.7992	-0.0057	0.79918	0.60732	273.084	10.915	0.24303	5029.4
35.0000	0.7992	-0.0000	0.79917	0.61086	273.162	10.918	0.24302	5029.7

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 26769.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=36.9493 ENTRØPY=40.3986
 GAMMA (AVG.)=1.1676 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.9493	0.7992	-0.0539	0.80098	0.57752	312.291	11.149	0.23424	5495.5
36.7544	0.7993	-0.0485	0.80081	0.58088	313.756	11.194	0.23436	5498.5
36.5595	0.7995	-0.0431	0.80065	0.58421	315.063	11.234	0.23447	5501.1
36.3645	0.7996	-0.0377	0.80052	0.58753	316.216	11.269	0.23457	5503.4
36.1696	0.7997	-0.0324	0.80040	0.59084	317.216	11.300	0.23465	5505.3
35.9747	0.7998	-0.0270	0.80030	0.59415	318.066	11.326	0.23472	5506.9
35.7797	0.7999	-0.0216	0.80022	0.59746	318.765	11.347	0.23478	5508.2
35.5848	0.8000	-0.0162	0.80015	0.60079	319.313	11.364	0.23482	5509.3
35.3899	0.8000	-0.0108	0.80011	0.60412	319.710	11.376	0.23486	5510.1
35.1949	0.8001	-0.0054	0.80008	0.60748	319.953	11.384	0.23488	5510.7
35.0000	0.8001	-0.0000	0.80007	0.61086	320.040	11.386	0.23488	5510.8

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 28829.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=36.8524 ENTRØPY=41.3669
 GAMMA (AVG.)=1.1531 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8524	0.8002	-0.0513	0.80183	0.57914	362.026	11.685	0.22696	5885.3
36.6672	0.8003	-0.0462	0.80167	0.58233	363.640	11.729	0.22707	5888.0
36.4820	0.8005	-0.0410	0.80153	0.58550	365.081	11.770	0.22717	5890.4
36.2967	0.8006	-0.0359	0.80140	0.58866	366.352	11.805	0.22725	5892.5
36.1115	0.8007	-0.0308	0.80130	0.59181	367.454	11.836	0.22733	5894.4
35.9262	0.8008	-0.0257	0.80121	0.59496	368.390	11.862	0.22739	5895.9
35.7410	0.8009	-0.0206	0.80113	0.59812	369.160	11.883	0.22744	5897.2
35.5557	0.8009	-0.0154	0.80107	0.60128	369.764	11.900	0.22748	5898.1
35.3705	0.8010	-0.0103	0.80103	0.60445	370.200	11.912	0.22751	5898.9
35.1852	0.8010	-0.0052	0.80100	0.60765	370.468	11.920	0.22753	5899.2
35.0000	0.8010	-0.0000	0.80099	0.61086	370.564	11.922	0.22753	5899.5

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 30888.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=36.7612 ENTRØPY=42.3526
 GAMMA (AVG.)=1.1442 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.7612	0.8011	-0.0489	0.80263	0.58067	415.447	12.244	0.22048	6218.9
36.5851	0.8013	-0.0440	0.80248	0.58371	417.209	12.289	0.22059	6221.4
36.4089	0.8014	-0.0391	0.80236	0.58673	418.781	12.329	0.22067	6223.6
36.2328	0.8015	-0.0342	0.80224	0.58973	420.168	12.365	0.22075	6225.5
36.0567	0.8016	-0.0293	0.80215	0.59274	421.371	12.396	0.22082	6227.2
35.8806	0.8017	-0.0245	0.80206	0.59573	422.392	12.422	0.22088	6228.6
35.7045	0.8018	-0.0196	0.80200	0.59874	423.232	12.443	0.22092	6229.8
35.5283	0.8018	-0.0147	0.80194	0.60174	423.890	12.460	0.22096	6230.8
35.3522	0.8018	-0.0098	0.80191	0.60477	424.366	12.472	0.22099	6231.5
35.1761	0.8019	-0.0049	0.80188	0.60780	424.658	12.480	0.22100	6231.7
35.0000	0.8019	-0.0000	0.80187	0.61086	424.762	12.483	0.22101	6231.9

CBNF SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHECK ANGLE=36.5672 ENTRPHY=44.8972
GAMMA (AVG.)=1.1426 STAG. ENTHALPY=6.5196E 08 FT. 50./SEC. 50.

ETA	VR	VV	V	THETA	P	RHO	MU	T (K)
36.5672	0.8032	-0.0436	0.80434	0.58394	565.132	13.653	0.20794	6880.8
36.4105	0.8033	-0.0393	0.80423	0.58665	567.262	13.698	0.20803	6882.9
36.2537	0.8034	-0.0349	0.80413	0.58934	569.164	13.738	0.20810	6884.9
36.0970	0.8035	-0.0305	0.80404	0.59203	570.841	13.774	0.20817	6886.7
35.9403	0.8035	-0.0262	0.80396	0.59470	572.297	13.805	0.20823	6888.1
35.7836	0.8036	-0.0218	0.80390	0.59738	573.532	13.830	0.20827	6889.4
35.6269	0.8037	-0.0175	0.80384	0.60006	574.548	13.852	0.20831	6890.5
35.4701	0.8037	-0.0131	0.80380	0.60274	575.344	13.868	0.20834	6891.5
35.3134	0.8037	-0.0088	0.80377	0.60543	575.919	13.881	0.20837	6892.0
35.1567	0.8037	-0.0044	0.80375	0.60814	576.271	13.888	0.20838	6892.3
35.0000	0.8037	0.0000	0.80374	0.61087	576.397	13.891	0.20838	6892.4

CBNF SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41146.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHECK ANGLE=36.4353 ENTRPHY=47.5881
GAMMA (AVG.)=1.1598 STAG. ENTHALPY=8.5013E 08 FT. 50./SEC. 50.

ETA	VR	VV	V	THETA	P	RHO	MU	T (K)
36.5353	0.8045	-0.0400	0.80552	0.58618	737.849	14.830	0.20058	7479.1
36.2918	0.8046	-0.0360	0.80543	0.58866	740.392	14.875	0.20065	7481.5
36.1483	0.8047	-0.0320	0.80534	0.59113	742.664	14.914	0.20072	7483.7
36.0047	0.8048	-0.0280	0.80527	0.59359	744.668	14.949	0.20078	7485.7
35.8612	0.8048	-0.0240	0.80520	0.59604	746.407	14.979	0.20083	7487.2
35.7177	0.8049	-0.0200	0.80515	0.59850	747.883	15.009	0.20088	7488.6
35.5741	0.8049	-0.0160	0.80510	0.60095	749.097	15.026	0.20091	7489.7
35.4306	0.8050	-0.0120	0.80507	0.60341	750.048	15.042	0.20094	7490.7
35.2870	0.8050	-0.0080	0.80504	0.60588	750.735	15.055	0.20096	7491.2
35.1435	0.8050	-0.0040	0.80502	0.60837	751.155	15.062	0.20097	7491.5
35.0000	0.8050	-0.0000	0.80502	0.61086	751.305	15.064	0.20098	7491.9

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3048.8 FT./SEC. ENTROPY=24.8157

FLOW PROPERTIES

SHOCK ANGLE=48.3159 ENTROPY=24.3178
GAMMA AVG.=1.13400 SEAG. ENTHALPY=7.6199E 06 FT. SQ./SEC. SQ.

ETA	VR	VB	V	THETA	P	RHO	MU	T (K)
45.4307	0.7016	-0.1895	0.72676	0.52921	5.734	3.025	0.70342	464.5
44.6448	0.7041	-0.1706	0.72445	0.54150	5.841	3.066	0.71039	466.9
43.8510	0.7063	-0.1518	0.72247	0.55366	5.936	3.101	0.71657	469.1
43.0571	0.7082	-0.1331	0.72064	0.56571	6.019	3.133	0.72204	470.9
42.2632	0.7099	-0.1144	0.71900	0.57751	6.092	3.160	0.72685	472.5
41.4693	0.7114	-0.0957	0.71777	0.59000	6.155	3.183	0.73101	473.8
40.6755	0.7125	-0.0770	0.71667	0.60234	6.207	3.203	0.73451	475.0
39.8816	0.7134	-0.0580	0.71579	0.61489	6.250	3.219	0.73734	475.9
39.0877	0.7141	-0.0389	0.71514	0.62772	6.281	3.230	0.73966	476.6
38.2938	0.7145	-0.0196	0.71473	0.64090	6.301	3.236	0.74161	477.0
37.5000	0.7146	0.0000	0.71457	0.65450	6.309	3.241	0.74322	477.1

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=45.4307 ENTROPY=29.8089
GAMMA AVG.=1.13739 SEAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VB	V	THETA	P	RHO	MU	T (K)
45.4307	0.7016	-0.1895	0.72676	0.52921	9.346	3.759	0.56745	609.4
44.6448	0.7041	-0.1706	0.72445	0.54150	9.477	3.800	0.57071	611.9
43.8510	0.7063	-0.1518	0.72247	0.55366	9.612	3.837	0.57359	614.0
43.0571	0.7082	-0.1331	0.72064	0.56571	9.722	3.868	0.57613	616.0
42.2632	0.7099	-0.1144	0.71900	0.57751	9.819	3.896	0.57834	617.6
41.4693	0.7114	-0.0957	0.71777	0.59000	9.900	3.920	0.58023	619.0
40.6755	0.7125	-0.0770	0.71667	0.60234	9.969	3.940	0.58180	620.2
39.8816	0.7134	-0.0580	0.71579	0.61489	10.024	3.955	0.58306	621.1
39.0877	0.7141	-0.0389	0.71514	0.62772	10.066	3.967	0.58398	621.8
38.2938	0.7145	-0.0196	0.71473	0.64090	10.089	3.974	0.58457	622.2
37.5000	0.7146	0.0000	0.71457	0.65450	10.099	3.977	0.58478	622.3

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=43.9793 ENTRØPY=30.3608
GAMMA (AVG.)=1.3535 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.9793	0.7196	-0.1591	0.73694	0.54994	14.009	4.364	0.49866	786.8
43.3314	0.7212	-0.1432	0.73532	0.56030	14.191	4.405	0.50071	789.5
42.6834	0.7228	-0.1274	0.73389	0.57054	14.352	4.442	0.50253	791.8
42.0355	0.7241	-0.1116	0.73284	0.58071	14.494	4.475	0.50413	793.8
41.3876	0.7252	-0.0959	0.73156	0.59089	14.618	4.503	0.50551	795.6
40.7396	0.7262	-0.0802	0.73063	0.60111	14.723	4.527	0.50669	797.1
40.0917	0.7270	-0.0644	0.72987	0.61142	14.811	4.547	0.50767	798.3
39.4438	0.7276	-0.0485	0.72926	0.62187	14.881	4.563	0.50845	799.3
38.7958	0.7281	-0.0325	0.72881	0.63250	14.932	4.574	0.50902	800.0
38.1479	0.7283	-0.0164	0.72852	0.64336	14.964	4.582	0.50938	800.5
37.5000	0.7284	-0.0000	0.72841	0.65450	14.976	4.584	0.50951	800.6

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=43.1286 ENTRØPY=30.9274
GAMMA (AVG.)=1.3351 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.1286	0.7298	-0.1405	0.74320	0.56253	19.714	4.865	0.45661	943.0
42.5657	0.7311	-0.1264	0.74194	0.57169	19.942	4.907	0.45811	995.9
42.0029	0.7323	-0.1124	0.74083	0.58074	20.145	4.945	0.45944	998.4
41.4400	0.7333	-0.0985	0.73986	0.58974	20.323	4.978	0.46060	1000.7
40.8771	0.7342	-0.0846	0.73902	0.59873	20.479	5.006	0.46161	1002.6
40.3143	0.7349	-0.0707	0.73830	0.60774	20.612	5.030	0.46247	1004.2
39.7514	0.7355	-0.0567	0.73770	0.61682	20.722	5.050	0.46318	1005.5
39.1886	0.7360	-0.0427	0.73723	0.62600	20.809	5.066	0.46374	1006.6
38.6257	0.7363	-0.0286	0.73689	0.63532	20.873	5.078	0.46416	1007.4
38.0628	0.7365	-0.0144	0.73667	0.64480	20.912	5.085	0.46441	1007.9
37.5000	0.7366	-0.0000	0.73659	0.65450	20.927	5.088	0.46451	1008.0

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=175000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.1825 ENTRPHY=32.0323
GAMMA (AVG.)=1.3111 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.1825	0.7410	-0.1190	0.75049	0.57698	34.241	5.642	0.40836	1487.3
41.7142	0.7419	-0.1071	0.74960	0.58473	34.580	5.685	0.40936	1490.7
41.2460	0.7427	-0.0952	0.74880	0.59240	34.881	5.723	0.41025	1493.8
40.7777	0.7434	-0.0834	0.74811	0.60002	35.147	5.756	0.41103	1496.5
40.3095	0.7441	-0.0716	0.74750	0.60763	35.378	5.785	0.41171	1498.8
39.8412	0.7446	-0.0598	0.74699	0.61526	35.575	5.809	0.41228	1500.8
39.3730	0.7450	-0.0479	0.74657	0.62293	35.738	5.830	0.41275	1502.4
38.9047	0.7454	-0.0361	0.74623	0.63066	35.867	5.846	0.41313	1503.7
38.4365	0.7456	-0.0241	0.74590	0.63848	35.961	5.857	0.41340	1504.7
37.9682	0.7457	-0.0121	0.74583	0.64642	36.019	5.864	0.41357	1505.2
37.5000	0.7458	0.0000	0.74577	0.65450	36.040	5.867	0.41363	1505.4

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.6827 ENTRPHY=33.0592
GAMMA (AVG.)=1.2993 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.6827	0.7468	-0.1073	0.75450	0.58480	52.922	6.197	0.38239	2092.9
41.2645	0.7476	-0.0965	0.75377	0.59178	53.396	6.240	0.38318	2097.2
40.8462	0.7482	-0.0858	0.75313	0.59869	53.818	6.278	0.38386	2101.0
40.4279	0.7488	-0.0752	0.75257	0.60556	54.189	6.311	0.38449	2104.3
40.0096	0.7493	-0.0645	0.75208	0.61242	54.512	6.340	0.38503	2107.2
39.5914	0.7497	-0.0539	0.75166	0.61929	54.787	6.365	0.38548	2109.6
39.1731	0.7501	-0.0432	0.75132	0.62619	55.015	6.385	0.38585	2111.6
38.7548	0.7503	-0.0325	0.75105	0.63314	55.194	6.401	0.38614	2113.2
38.3365	0.7505	-0.0217	0.75085	0.64016	55.325	6.413	0.38636	2114.4
37.9182	0.7506	-0.0109	0.75072	0.64727	55.406	6.420	0.38649	2115.1
37.5000	0.7507	0.0000	0.75068	0.65450	55.435	6.423	0.38654	2115.3

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRBPV=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.1402 ENTRBPV=34.0767
GAMMA (AVG.)=1.1456 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.1402	0.7531	-0.0946	0.75901	0.59308	75.714	6.955	0.33390	2640.0
40.7761	0.7537	-0.0851	0.75844	0.59930	76.318	7.003	0.33432	2642.3
40.4171	0.7542	-0.0756	0.75794	0.60545	76.854	7.045	0.33469	2644.8
40.0681	0.7546	-0.0661	0.75750	0.61154	77.325	7.083	0.33501	2646.4
39.7281	0.7550	-0.0567	0.75712	0.61761	77.733	7.115	0.33530	2648.2
39.3901	0.7553	-0.0473	0.75680	0.62367	78.080	7.142	0.33552	2649.6
39.0560	0.7556	-0.0379	0.75653	0.62974	78.366	7.165	0.33571	2650.7
38.7240	0.7558	-0.0285	0.75633	0.63584	78.591	7.183	0.33587	2651.4
38.3920	0.7559	-0.0191	0.75617	0.64199	78.755	7.195	0.33597	2652.2
38.0640	0.7560	-0.0096	0.75608	0.64820	78.856	7.204	0.33603	2652.5
37.7400	0.7560	0.0000	0.75604	0.65450	78.892	7.206	0.33608	2652.7

CBME SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRBPV=28.8157

FLOW PROPERTIES

SHOCK ANGLE=40.5454 ENTRBPV=35.0350
GAMMA (AVG.)=1.1303 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.5454	0.7599	-0.0800	0.76408	0.60281	102.690	8.130	0.30314	2971.5
40.2408	0.7603	-0.0719	0.76368	0.60804	103.375	8.177	0.30344	2973.4
39.9363	0.7606	-0.0639	0.76332	0.61321	103.984	8.219	0.30371	2975.7
39.6318	0.7610	-0.0559	0.76301	0.61835	104.520	8.255	0.30396	2977.3
39.3272	0.7612	-0.0480	0.76274	0.62347	104.983	8.287	0.30417	2978.9
39.0227	0.7615	-0.0400	0.76251	0.62858	105.380	8.314	0.30435	2980.0
38.7181	0.7616	-0.0321	0.76232	0.63370	105.705	8.336	0.30450	2981.1
38.4136	0.7618	-0.0241	0.76217	0.63884	105.960	8.355	0.30460	2981.7
38.1090	0.7619	-0.0161	0.76206	0.64401	106.146	8.366	0.30468	2982.7
37.8045	0.7620	-0.0081	0.76199	0.64923	106.259	8.375	0.30474	2982.8
37.5000	0.7620	0.0000	0.76197	0.65451	106.300	8.377	0.30474	2982.9

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.769DE 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRAPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=40.1329 ENTRAPY=36.0317
GAMMA (AVG.)=1.1480 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8741	0.7675	-0.0630	0.77003	0.01402	169.112	10.175	0.27408	3636.3
39.8367	0.7677	-0.0567	0.76979	0.01809	169.986	10.219	0.27430	3638.6
39.3993	0.7679	-0.0504	0.76957	0.02213	170.766	10.258	0.27452	3641.2
39.1618	0.7681	-0.0441	0.76937	0.02615	171.454	10.293	0.27469	3642.8
38.9244	0.7683	-0.0378	0.76921	0.03017	172.051	10.324	0.27485	3644.3
38.6870	0.7684	-0.0315	0.76907	0.03418	172.550	10.348	0.27499	3646.2
38.4496	0.7685	-0.0253	0.76895	0.03820	172.975	10.371	0.27509	3646.7
38.2122	0.7686	-0.0190	0.76886	0.04224	173.303	10.387	0.27518	3647.9
37.9748	0.7687	-0.0127	0.76879	0.04629	173.540	10.399	0.27526	3648.4
37.7374	0.7687	-0.0064	0.76875	0.05037	173.686	10.406	0.27528	3648.8
37.5000	0.7687	-0.0000	0.76873	0.05450	173.738	10.409	0.27530	3649.1

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRAPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.8741 ENTRAPY=37.0200
GAMMA (AVG.)=1.1860 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8741	0.7675	-0.0630	0.77003	0.01402	169.112	10.175	0.27408	3636.3
39.8367	0.7677	-0.0567	0.76979	0.01809	169.986	10.219	0.27430	3638.6
39.3993	0.7679	-0.0504	0.76957	0.02213	170.766	10.258	0.27452	3641.2
39.1618	0.7681	-0.0441	0.76937	0.02615	171.454	10.293	0.27469	3642.8
38.9244	0.7683	-0.0378	0.76921	0.03017	172.051	10.324	0.27485	3644.3
38.6870	0.7684	-0.0315	0.76907	0.03418	172.550	10.348	0.27499	3646.2
38.4496	0.7685	-0.0253	0.76895	0.03820	172.975	10.371	0.27509	3646.7
38.2122	0.7686	-0.0190	0.76886	0.04224	173.303	10.387	0.27518	3647.9
37.9748	0.7687	-0.0127	0.76879	0.04629	173.540	10.399	0.27526	3648.4
37.7374	0.7687	-0.0064	0.76875	0.05037	173.686	10.406	0.27528	3648.8
37.5000	0.7687	-0.0000	0.76873	0.05450	173.738	10.409	0.27530	3649.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.7777 ENTROPY=38.0401
GAMMA (AVG.)=1.2216 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7777	0.7685	-0.0605	0.77091	0.61566	208.555	10.571	0.27245	4148.0
39.5499	0.7688	-0.0545	0.77068	0.61956	209.588	10.613	0.27268	4151.6
39.3222	0.7690	-0.0484	0.77048	0.62344	210.510	10.650	0.27288	4154.9
39.0944	0.7691	-0.0424	0.77027	0.62730	211.322	10.682	0.27307	4158.1
38.8666	0.7693	-0.0363	0.77015	0.63115	212.028	10.710	0.27323	4160.6
38.6388	0.7694	-0.0303	0.77002	0.63500	212.628	10.734	0.27336	4162.6
38.4111	0.7695	-0.0243	0.76991	0.63886	213.121	10.754	0.27347	4164.4
38.1833	0.7696	-0.0182	0.76982	0.64273	213.509	10.769	0.27355	4165.9
37.9555	0.7697	-0.0122	0.76976	0.64663	213.789	10.781	0.27363	4166.7
37.7277	0.7697	-0.0061	0.76972	0.65055	213.961	10.788	0.27366	4167.2
37.5000	0.7697	0.0000	0.76971	0.65450	214.023	10.790	0.27367	4167.5

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.7821 ENTROPY=39.0969
GAMMA (AVG.)=1.2071 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7821	0.7685	-0.0607	0.77087	0.61557	252.135	10.550	0.27104	4837.2
39.5539	0.7687	-0.0546	0.77064	0.61948	253.389	10.594	0.27120	4840.4
39.3257	0.7689	-0.0485	0.77044	0.62336	254.507	10.634	0.27134	4843.3
39.0975	0.7691	-0.0425	0.77026	0.62723	255.494	10.668	0.27147	4845.9
38.8693	0.7692	-0.0364	0.77011	0.63110	256.351	10.698	0.27158	4848.1
38.6411	0.7694	-0.0304	0.76997	0.63496	257.078	10.724	0.27167	4849.8
38.4128	0.7695	-0.0243	0.76987	0.63882	257.678	10.746	0.27175	4851.3
38.1846	0.7696	-0.0183	0.76978	0.64271	258.148	10.762	0.27180	4852.6
37.9564	0.7696	-0.0122	0.76972	0.64661	258.489	10.774	0.27185	4853.6
37.7282	0.7697	-0.0061	0.76968	0.65054	258.698	10.782	0.27187	4853.9
37.5000	0.7697	-0.0000	0.76967	0.65450	258.773	10.784	0.27188	4854.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 24710.0 FT./SEC. ENTRBPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.6764 ENTRBPPY=40.1484
 GAMMA (AVG.)=1.1725 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.6764	0.7697	-0.0580	0.77184	0.61730	299.856	11.013	0.26076	5383.0
19.6588	0.7699	-0.0522	0.77163	0.62104	301.282	11.058	0.26091	5386.0
19.6411	0.7701	-0.0464	0.77145	0.62476	302.553	11.098	0.26105	5388.7
19.6235	0.7702	-0.0406	0.77128	0.62846	303.675	11.133	0.26116	5391.0
18.6058	0.7704	-0.0348	0.77114	0.63215	304.648	11.163	0.26126	5393.1
18.5882	0.7705	-0.0290	0.77102	0.63584	305.474	11.190	0.26135	5394.7
18.5706	0.7706	-0.0232	0.77092	0.63954	306.155	11.211	0.26142	5395.9
18.1529	0.7706	-0.0175	0.77084	0.64324	306.688	11.228	0.26148	5397.1
17.9353	0.7707	-0.0117	0.77079	0.64697	307.075	11.240	0.26152	5397.8
17.7176	0.7707	-0.0058	0.77075	0.65072	307.311	11.247	0.26155	5398.5
17.5000	0.7707	-0.0000	0.77074	0.65450	307.396	11.250	0.26155	5398.5

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 26769.9 FT./SEC. ENTRBPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=39.5612 ENTRBPPY=41.1709
 GAMMA (AVG.)=1.1555 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
39.5612	0.7709	-0.0550	0.77291	0.61922	351.733	11.574	0.25189	5811.6
39.3550	0.7711	-0.0495	0.77272	0.62277	353.318	11.619	0.25202	5814.4
39.1489	0.7713	-0.0440	0.77255	0.62629	354.732	11.660	0.25214	5816.7
38.9428	0.7714	-0.0385	0.77240	0.62981	355.979	11.695	0.25225	5819.0
38.7367	0.7716	-0.0330	0.77228	0.63331	357.061	11.726	0.25233	5820.8
38.5306	0.7717	-0.0275	0.77217	0.63681	357.979	11.752	0.25241	5822.4
38.3245	0.7718	-0.0221	0.77208	0.64032	358.735	11.773	0.25247	5823.7
38.1183	0.7718	-0.0166	0.77201	0.64383	359.328	11.790	0.25252	5824.6
37.9122	0.7719	-0.0111	0.77196	0.64736	359.757	11.802	0.25256	5825.4
37.7061	0.7719	-0.0055	0.77193	0.65092	360.020	11.810	0.25258	5825.8
37.5000	0.7719	-0.0000	0.77191	0.65450	360.114	11.813	0.25259	5826.0

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NØ.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=39.4527 ENTRØPY=42.2138
GAMMA (AVG.)=1.1451 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.4527	0.7721	-0.0522	0.77391	0.62103	407.762	12.165	0.24405	6175.1
39.2575	0.7723	-0.0470	0.77374	0.62440	409.504	12.210	0.24418	6177.6
39.0622	0.7725	-0.0418	0.77359	0.62774	411.058	12.250	0.24428	6179.9
38.8669	0.7726	-0.0366	0.77346	0.63108	412.428	12.286	0.24438	6181.8
38.6716	0.7727	-0.0313	0.77335	0.63440	413.617	12.317	0.24446	6183.5
38.4764	0.7728	-0.0261	0.77325	0.63773	414.626	12.343	0.24453	6185.0
38.2811	0.7729	-0.0209	0.77317	0.64105	415.457	12.365	0.24459	6186.2
38.0858	0.7729	-0.0157	0.77310	0.64439	416.108	12.382	0.24463	6187.0
37.8905	0.7730	-0.0105	0.77306	0.64774	416.578	12.394	0.24466	6187.7
37.6953	0.7730	-0.0053	0.77303	0.65111	416.867	12.401	0.24468	6188.1
37.5000	0.7730	-0.0000	0.77302	0.65450	416.970	12.404	0.24469	6188.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NØ.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30886.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=39.3528 ENTRØPY=43.2767
GAMMA (AVG.)=1.1405 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.3528	0.7733	-0.0497	0.77485	0.62271	467.944	12.771	0.23726	6485.1
39.1675	0.7734	-0.0447	0.77470	0.62591	469.840	12.815	0.23737	6487.4
38.9822	0.7735	-0.0397	0.77456	0.62909	471.532	12.856	0.23747	6489.5
38.7969	0.7737	-0.0347	0.77444	0.63225	473.024	12.891	0.23755	6491.3
38.6116	0.7738	-0.0298	0.77434	0.63541	474.319	12.922	0.23763	6492.9
38.4264	0.7738	-0.0248	0.77425	0.63857	475.418	12.948	0.23769	6494.2
38.2411	0.7739	-0.0199	0.77418	0.64173	476.322	12.970	0.23775	6495.3
38.0558	0.7740	-0.0149	0.77412	0.64490	477.031	12.987	0.23779	6496.3
37.8705	0.7740	-0.0100	0.77408	0.64808	477.543	12.999	0.23781	6496.9
37.6852	0.7740	-0.0050	0.77405	0.65128	477.857	13.006	0.23783	6497.2
37.5000	0.7740	-0.0000	0.77404	0.65450	477.969	13.009	0.23784	6497.3

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NØ.=35.00 AL TITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 36036.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=39.1526 ENTRØPY=46.0278
 GAMMA (AVG.)=1.1487 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.1526	0.7755	-0.0444	0.77674	0.62610	636.568	14.208	0.22490	7131.5
38.9874	0.7756	-0.0400	0.77662	0.62895	638.866	14.253	0.22499	7133.5
38.8221	0.7757	-0.0355	0.77651	0.63179	640.918	14.292	0.22508	7135.6
38.6568	0.7758	-0.0311	0.77641	0.63462	642.728	14.328	0.22515	7137.3
38.4916	0.7759	-0.0267	0.77633	0.63745	644.299	14.358	0.22522	7138.9
38.3263	0.7759	-0.0222	0.77626	0.64027	645.632	14.384	0.22527	7140.3
38.1610	0.7760	-0.0178	0.77620	0.64310	646.729	14.406	0.22531	7141.2
37.9958	0.7760	-0.0134	0.77616	0.64593	647.588	14.422	0.22535	7142.1
37.8305	0.7761	-0.0089	0.77612	0.64877	648.208	14.434	0.22537	7142.6
37.6652	0.7761	-0.0045	0.77610	0.65163	648.588	14.442	0.22539	7143.0
37.5000	0.7761	0.0000	0.77609	0.65450	648.723	14.444	0.22539	7143.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NØ.=40.00 AL TITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41184.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=39.0361 ENTRØPY=48.9016
 GAMMA (AVG.)=1.1698 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.0361	0.7767	-0.0414	0.77785	0.62808	831.139	15.219	0.21885	7826.0
38.8825	0.7769	-0.0372	0.77774	0.63073	833.924	15.262	0.21893	7828.8
38.7289	0.7769	-0.0331	0.77765	0.63337	836.412	15.302	0.21901	7831.0
38.5753	0.7770	-0.0290	0.77757	0.63601	838.608	15.336	0.21908	7833.2
38.4217	0.7771	-0.0248	0.77750	0.63863	840.514	15.366	0.21914	7835.1
38.2681	0.7772	-0.0207	0.77743	0.64126	842.131	15.392	0.21919	7836.3
38.1144	0.7772	-0.0166	0.77738	0.64389	843.461	15.412	0.21923	7837.6
37.9608	0.7772	-0.0124	0.77734	0.64653	844.503	15.429	0.21927	7838.6
37.8072	0.7773	-0.0083	0.77732	0.64917	845.255	15.441	0.21929	7839.4
37.6536	0.7773	-0.0042	0.77730	0.65183	845.715	15.447	0.21930	7839.9
37.5000	0.7773	-0.0000	0.77729	0.65450	845.880	15.451	0.21931	7835.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=51.7235 ENTRØPY=29.3997
GAMMA (AVG.)=1.3877 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.7235	0.6193	-0.2477	0.66703	0.52234	6.315	3.169	0.77884	488.3
50.5511	0.6241	-0.2231	0.66279	0.53897	6.427	3.210	0.78751	490.8
49.3788	0.6284	-0.1988	0.65907	0.55546	6.527	3.245	0.79527	492.9
48.2064	0.6321	-0.1745	0.65580	0.57197	6.614	3.277	0.80217	494.7
47.0341	0.6354	-0.1503	0.65296	0.58864	6.691	3.304	0.80826	496.3
45.8617	0.6382	-0.1260	0.65051	0.60558	6.757	3.327	0.81354	497.7
44.6894	0.6405	-0.1014	0.64846	0.62290	6.812	3.347	0.81801	498.8
43.5170	0.6422	-0.0767	0.64681	0.64070	6.856	3.363	0.82163	499.7
42.3447	0.6435	-0.0516	0.64557	0.65909	6.889	3.374	0.82434	500.4
41.1723	0.6443	-0.0260	0.64478	0.67819	6.910	3.382	0.82607	500.8
40.0000	0.6445	0.0000	0.64447	0.69813	6.918	3.385	0.82672	500.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.00 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=48.4558 ENTRØPY=29.9342
GAMMA (AVG.)=1.3692 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.4558	0.6631	-0.1914	0.69020	0.56476	10.339	3.911	0.62195	648.0
47.6102	0.6658	-0.1723	0.68772	0.57777	10.469	3.952	0.62584	650.5
46.7647	0.6682	-0.1533	0.68553	0.59065	10.621	3.988	0.62929	652.7
45.9191	0.6703	-0.1344	0.68361	0.60349	10.738	4.020	0.63234	654.6
45.0735	0.6721	-0.1156	0.68194	0.61637	10.840	4.048	0.63500	656.3
44.2279	0.6736	-0.0967	0.68052	0.62935	10.927	4.072	0.63727	657.7
43.3823	0.6749	-0.0777	0.67934	0.64251	11.000	4.092	0.63918	658.9
42.5367	0.6759	-0.0586	0.67839	0.65590	11.058	4.107	0.64069	659.8
41.6911	0.6765	-0.0393	0.67769	0.66959	11.101	4.119	0.64181	660.5
40.8455	0.6770	-0.0198	0.67724	0.68364	11.128	4.126	0.64251	660.9
40.0000	0.6771	0.0000	0.67707	0.69813	11.138	4.129	0.64277	661.1

CBNE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K.
VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=46.9224 ENTRPHY=30.5231
GAMMA (AVG.)=1.3478 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.9224	0.6829	-0.1617	0.70183	0.58647	15.539	4.517	0.54537	843.1
46.2301	0.6848	-0.1455	0.70008	0.59749	15.734	4.559	0.54780	845.8
45.5379	0.6864	-0.1294	0.69853	0.60840	15.906	4.596	0.54996	848.2
44.8456	0.6879	-0.1134	0.69717	0.61925	16.058	4.628	0.55185	850.3
44.1534	0.6891	-0.0975	0.69599	0.63017	16.190	4.657	0.55350	852.1
43.4612	0.6902	-0.0815	0.69498	0.64104	16.303	4.681	0.55491	853.6
42.7689	0.6911	-0.0654	0.69415	0.65207	16.397	4.701	0.55607	854.9
42.0767	0.6917	-0.0493	0.69349	0.66325	16.472	4.716	0.55700	855.9
41.3844	0.6922	-0.0330	0.69300	0.67462	16.526	4.728	0.55768	856.6
40.6922	0.6925	-0.0166	0.69269	0.68623	16.561	4.735	0.55810	857.1
40.0000	0.6926	-0.0000	0.69257	0.69813	16.573	4.738	0.55826	857.3

CBNE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K.
VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=46.0299 ENTRPHY=31.1204
GAMMA (AVG.)=1.3298 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0299	0.6943	-0.1434	0.70092	0.59964	21.903	5.018	0.49930	1069.8
45.4269	0.6957	-0.1291	0.70754	0.60942	22.148	5.060	0.50107	1072.8
44.8235	0.6969	-0.1148	0.70633	0.61910	22.366	5.097	0.50263	1075.4
44.2209	0.6981	-0.1006	0.70527	0.62873	22.559	5.130	0.50401	1077.7
43.6179	0.6990	-0.0864	0.70434	0.63835	22.726	5.159	0.50521	1079.7
43.0149	0.6998	-0.0722	0.70356	0.64801	22.868	5.183	0.50623	1081.3
42.4119	0.7005	-0.0579	0.70291	0.65775	22.987	5.203	0.50707	1082.7
41.8089	0.7010	-0.0436	0.70239	0.66759	23.080	5.219	0.50773	1083.8
41.2060	0.7014	-0.0292	0.70201	0.67758	23.149	5.231	0.50822	1084.6
40.6030	0.7016	-0.0147	0.70177	0.68774	23.192	5.238	0.50853	1085.1
40.0000	0.7017	-0.0000	0.70168	0.69813	23.207	5.241	0.50864	1085.3

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=45.0416 ENTRØPY=32.2726
GAMMA (AVG.)=1.3076 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.0416	0.7066	-0.1223	0.71709	0.61471	38.109	5.785	0.44720	1614.5
44.5375	0.7076	-0.1101	0.71610	0.62303	38.477	5.827	0.44838	1618.2
44.0333	0.7085	-0.0979	0.71522	0.63127	38.803	5.865	0.44943	1621.4
43.5291	0.7093	-0.0857	0.71445	0.63947	39.091	5.898	0.45036	1624.2
43.0250	0.7100	-0.0736	0.71378	0.64766	39.341	5.927	0.45116	1626.7
42.5208	0.7106	-0.0614	0.71321	0.65587	39.555	5.952	0.45184	1628.7
42.0166	0.7110	-0.0493	0.71275	0.66413	39.731	5.972	0.45240	1630.4
41.5125	0.7114	-0.0371	0.71237	0.67245	39.871	5.988	0.45284	1631.8
41.0083	0.7117	-0.0248	0.71210	0.68088	39.973	6.000	0.45316	1632.8
40.5041	0.7118	-0.0125	0.71193	0.68943	40.036	6.007	0.45336	1633.4
40.0000	0.7119	0.0000	0.71187	0.69813	40.058	6.010	0.45344	1633.6

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10246.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.5239 ENTRØPY=33.3332
GAMMA (AVG.)=1.2972 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.5239	0.7129	-0.1109	0.72152	0.62279	58.951	6.323	0.41956	2284.8
44.0715	0.7138	-0.0998	0.72071	0.63032	59.467	6.366	0.42050	2289.4
43.6191	0.7145	-0.0887	0.71999	0.63778	59.926	6.404	0.42133	2293.4
43.1667	0.7152	-0.0777	0.71936	0.64520	60.331	6.437	0.42206	2296.9
42.7143	0.7157	-0.0667	0.71881	0.65262	60.683	6.466	0.42270	2300.0
42.2619	0.7162	-0.0557	0.71835	0.66004	60.983	6.491	0.42323	2302.6
41.8095	0.7166	-0.0446	0.71797	0.66750	61.231	6.511	0.42368	2304.7
41.3571	0.7169	-0.0336	0.71766	0.67502	61.426	6.527	0.42403	2306.4
40.9048	0.7171	-0.0225	0.71744	0.68262	61.569	6.539	0.42428	2307.7
40.4524	0.7172	-0.0113	0.71730	0.69031	61.657	6.546	0.42444	2308.4
40.0000	0.7172	0.0000	0.71725	0.69813	61.689	6.549	0.42450	2308.7

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NØ=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=43.7758 ENTRØPY=34.4082
GAMMA (AVG.)=1.1358 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.7758	0.7220	-0.0942	0.72816	0.63435	84.360	7.347	0.35685	2755.7
43.3982	0.7226	-0.0847	0.72757	0.64079	84.991	7.394	0.35733	2758.0
43.0206	0.7231	-0.0752	0.72705	0.64717	85.552	7.437	0.35773	2760.1
42.6431	0.7236	-0.0659	0.72660	0.65350	86.046	7.474	0.35808	2761.9
42.2655	0.7240	-0.0565	0.72621	0.65980	86.473	7.506	0.35841	2763.6
41.8879	0.7243	-0.0471	0.72587	0.66610	86.837	7.533	0.35867	2764.9
41.5103	0.7246	-0.0378	0.72560	0.67241	87.136	7.555	0.35890	2766.1
41.1327	0.7248	-0.0284	0.72538	0.67875	87.372	7.573	0.35908	2766.8
40.7551	0.7250	-0.0190	0.72522	0.68514	87.543	7.586	0.35918	2767.5
40.3775	0.7251	-0.0095	0.72513	0.69159	87.648	7.594	0.35926	2768.0
40.0000	0.7251	-0.0000	0.72509	0.69813	87.686	7.596	0.35930	2768.2

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NØ=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRØPY=28.0157

FLOW PROPERTIES

SHOCK ANGLE=43.1584 ENTRØPY=35.4386
GAMMA (AVG.)=1.1340 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.1584	0.7295	-0.0796	0.73380	0.64450	114.437	8.588	0.32548	3094.3
42.8425	0.7299	-0.0716	0.73338	0.64991	115.154	8.635	0.32581	3096.4
42.5267	0.7302	-0.0637	0.73301	0.65528	115.792	8.676	0.32614	3098.4
42.2108	0.7306	-0.0557	0.73269	0.66061	116.354	8.713	0.32641	3099.9
41.8950	0.7308	-0.0478	0.73241	0.66592	116.841	8.744	0.32666	3101.3
41.5792	0.7311	-0.0399	0.73217	0.67123	117.255	8.771	0.32685	3102.6
41.2633	0.7313	-0.0319	0.73197	0.67655	117.596	8.793	0.32702	3103.5
40.9475	0.7314	-0.0240	0.73182	0.68188	117.863	8.810	0.32715	3104.5
40.6317	0.7315	-0.0160	0.73171	0.68725	118.058	8.823	0.32724	3104.9
40.3158	0.7316	-0.0080	0.73164	0.69267	118.177	8.830	0.32729	3105.4
40.0000	0.7316	0.0000	0.73161	0.69815	118.220	8.833	0.32731	3105.4

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTROPY=26.8157

FLOW PROPERTIES

SHOCK ANGLE=42.7531 ENTROPY=36.4731
GAMMA (AVG.)=1.1631 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.7531	0.7343	-0.0699	0.73760	0.65125	149.149	9.709	0.30748	3433.1
42.4778	0.7346	-0.0629	0.73728	0.65597	149.962	9.754	0.30776	3435.3
42.2025	0.7349	-0.0559	0.73700	0.66065	150.687	9.794	0.30803	3437.5
41.9272	0.7351	-0.0489	0.73675	0.66531	151.326	9.830	0.30828	3438.9
41.6519	0.7353	-0.0420	0.73654	0.66996	151.980	9.860	0.30847	3440.8
41.3765	0.7355	-0.0350	0.73636	0.67461	152.351	9.887	0.30863	3441.8
41.1012	0.7357	-0.0280	0.73621	0.67926	152.739	9.908	0.30877	3443.0
40.8259	0.7358	-0.0211	0.73609	0.68393	153.043	9.925	0.30888	3443.8
40.5506	0.7359	-0.0141	0.73600	0.68863	153.263	9.937	0.30896	3444.4
40.2753	0.7359	-0.0070	0.73595	0.69336	153.399	9.944	0.30900	3444.8
40.0000	0.7359	0.0000	0.73593	0.69814	153.447	9.948	0.30903	3444.8

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CCU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.5308 ENTROPY=37.5283
GAMMA (AVG.)=1.2079 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.5308	0.7369	-0.0645	0.73973	0.65500	188.498	10.480	0.30029	3857.5
42.2777	0.7372	-0.0580	0.73946	0.65933	189.441	10.524	0.30057	3860.1
42.0247	0.7374	-0.0516	0.73922	0.66353	190.282	10.562	0.30079	3862.6
41.7716	0.7376	-0.0452	0.73901	0.66791	191.024	10.596	0.30101	3865.1
41.5185	0.7378	-0.0387	0.73883	0.67219	191.668	10.626	0.30119	3866.7
41.2654	0.7380	-0.0323	0.73867	0.67647	192.215	10.651	0.30134	3868.4
41.0123	0.7381	-0.0259	0.73854	0.68076	192.665	10.672	0.30148	3869.8
40.7592	0.7382	-0.0194	0.73844	0.68506	193.019	10.688	0.30158	3870.8
40.5061	0.7383	-0.0130	0.73837	0.68938	193.275	10.700	0.30167	3871.5
40.2531	0.7383	-0.0065	0.73833	0.69374	193.432	10.707	0.30170	3871.7
40.0000	0.7383	0.0000	0.73831	0.69813	193.489	10.710	0.30172	3871.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=42.5432 ENTRØPY=38.6369
GAMMA (AVG.)=1.2222 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.5432	0.7368	-0.0648	0.73961	0.65481	232.485	10.436	0.30275	4579.4
42.2889	0.7370	-0.0583	0.73934	0.65915	233.653	10.478	0.30300	4583.2
42.0346	0.7373	-0.0518	0.73910	0.66347	234.695	10.516	0.30323	4586.4
41.7803	0.7375	-0.0454	0.73888	0.66777	235.615	10.550	0.30343	4589.4
41.5259	0.7377	-0.0389	0.73870	0.67207	236.414	10.579	0.30360	4591.8
41.2716	0.7378	-0.0325	0.73854	0.67637	237.092	10.604	0.30375	4594.0
41.0173	0.7380	-0.0260	0.73841	0.68068	237.651	10.624	0.30387	4595.6
40.7630	0.7381	-0.0195	0.73831	0.68500	238.090	10.640	0.30397	4597.0
40.5086	0.7381	-0.0130	0.73824	0.68934	238.407	10.652	0.30404	4598.0
40.2543	0.7382	-0.0065	0.73819	0.69372	238.602	10.659	0.30408	4598.5
40.0000	0.7382	0.0000	0.73818	0.69813	238.672	10.661	0.30409	4598.7

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=42.4408 ENTRØPY=39.7441
GAMMA (AVG.)=1.1821 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.4408	0.7380	-0.0623	0.74060	0.65647	281.072	10.826	0.29151	5188.9
42.1967	0.7382	-0.0561	0.74035	0.66065	282.432	10.871	0.29169	5192.0
41.9526	0.7384	-0.0498	0.74013	0.66481	283.645	10.911	0.29186	5195.0
41.7085	0.7386	-0.0436	0.73993	0.66896	284.715	10.946	0.29201	5197.3
41.4645	0.7388	-0.0374	0.73976	0.67309	285.644	10.977	0.29213	5199.4
41.2204	0.7390	-0.0312	0.73961	0.67722	286.434	11.002	0.29224	5201.4
40.9763	0.7391	-0.0250	0.73950	0.68136	287.083	11.024	0.29234	5202.8
40.7322	0.7392	-0.0188	0.73940	0.68552	287.593	11.040	0.29240	5204.0
40.4881	0.7392	-0.0125	0.73933	0.68969	287.962	11.053	0.29245	5204.8
40.2441	0.7393	-0.0063	0.73929	0.69389	288.188	11.060	0.29248	5205.3
40.0000	0.7393	0.0000	0.73928	0.69813	288.269	11.063	0.29250	5205.4

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.3085 ENTRPHY=40.8336
GAMMA (AVG.)=1.1603 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.3085	0.7395	-0.0591	0.74189	0.65865	334.286	11.386	0.28072	5679.0
42.0776	0.7398	-0.0532	0.74166	0.66262	335.819	11.431	0.28089	5681.9
41.8468	0.7400	-0.0473	0.74146	0.66657	337.186	11.472	0.28104	5684.4
41.6159	0.7401	-0.0414	0.74129	0.67049	338.392	11.507	0.28117	5686.7
41.3851	0.7403	-0.0355	0.74113	0.67441	339.439	11.538	0.28129	5688.4
41.1542	0.7404	-0.0296	0.74100	0.67833	340.327	11.564	0.28138	5690.1
40.9234	0.7405	-0.0237	0.74089	0.68226	341.059	11.585	0.28147	5691.4
40.6925	0.7406	-0.0178	0.74081	0.68619	341.632	11.602	0.28153	5692.4
40.4617	0.7407	-0.0119	0.74075	0.69014	342.047	11.614	0.28157	5693.3
40.2308	0.7407	-0.0060	0.74071	0.69412	342.302	11.622	0.28160	5693.7
40.0000	0.7407	-0.0000	0.74070	0.69813	342.393	11.625	0.28161	5693.8

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.1790 ENTRPHY=41.9285
GAMMA (AVG.)=1.1474 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.1790	0.7410	-0.0559	0.74316	0.66081	392.129	12.002	0.27112	6082.3
41.9611	0.7412	-0.0503	0.74296	0.66457	393.828	12.047	0.27126	6084.8
41.7432	0.7414	-0.0447	0.74278	0.66830	395.344	12.088	0.27140	6087.0
41.5253	0.7416	-0.0391	0.74262	0.67201	396.681	12.123	0.27151	6089.1
41.3074	0.7417	-0.0336	0.74246	0.67572	397.841	12.154	0.27162	6090.9
41.0895	0.7418	-0.0280	0.74226	0.67942	398.826	12.180	0.27170	6092.3
40.8716	0.7419	-0.0224	0.74227	0.68313	399.636	12.202	0.27177	6093.5
40.6537	0.7420	-0.0168	0.74219	0.68685	400.271	12.219	0.27183	6094.4
40.4358	0.7421	-0.0112	0.74214	0.69059	400.730	12.231	0.27187	6095.2
40.2179	0.7421	-0.0056	0.74210	0.69434	401.012	12.238	0.27189	6095.5
40.0000	0.7421	-0.0000	0.74209	0.69813	401.113	12.241	0.27190	6095.7

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NB.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=42.0597 ENTRBPY=43.0455
GAMMA (AVG.)=1.1411 STAG. ENTHALPY=4.1821E 08 FT. SO./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.0297	0.7424	-0.0530	0.74434	0.66281	454.602	12.640	0.26280	6421.9
41.8537	0.7426	-0.0477	0.74415	0.66637	456.464	12.685	0.26293	6424.2
41.6478	0.7428	-0.0424	0.74399	0.66990	458.127	12.725	0.26306	6426.5
41.4418	0.7429	-0.0371	0.74385	0.67341	459.593	12.760	0.26316	6428.3
41.2358	0.7430	-0.0318	0.74373	0.67692	460.864	12.791	0.26325	6429.9
41.0299	0.7432	-0.0265	0.74362	0.68043	461.944	12.818	0.26333	6431.2
40.8239	0.7432	-0.0212	0.74354	0.68394	462.832	12.839	0.26340	6432.3
40.6179	0.7433	-0.0159	0.74347	0.68746	463.528	12.856	0.26345	6433.2
40.4119	0.7433	-0.0106	0.74342	0.69100	464.032	12.868	0.26348	6433.8
40.2060	0.7434	-0.0053	0.74339	0.69455	464.340	12.876	0.26350	6434.3
40.0000	0.7434	-0.0000	0.74338	0.69813	464.450	12.878	0.26351	6434.4

CBME SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NB.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRBPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.9592 ENTRBPY=44.1861
GAMMA (AVG.)=1.1406 STAG. ENTHALPY=4.7969E 08 FT. SO./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.9532	0.7437	-0.0504	0.74539	0.66461	521.705	13.276	0.25581	6713.0
41.7578	0.7439	-0.0453	0.74523	0.66798	523.732	13.321	0.25593	6717.3
41.5625	0.7440	-0.0403	0.74508	0.67133	525.541	13.361	0.25604	6719.4
41.3672	0.7441	-0.0352	0.74496	0.67467	527.137	13.396	0.25614	6721.2
41.1719	0.7442	-0.0302	0.74485	0.67800	528.522	13.427	0.25622	6722.6
40.9766	0.7443	-0.0252	0.74475	0.68133	529.697	13.453	0.25629	6723.9
40.7812	0.7444	-0.0202	0.74467	0.68467	530.663	13.475	0.25635	6724.9
40.5859	0.7445	-0.0152	0.74461	0.68801	531.421	13.491	0.25640	6725.9
40.3906	0.7445	-0.0101	0.74457	0.69136	531.968	13.503	0.25643	6726.5
40.1953	0.7445	-0.0051	0.74454	0.69474	532.303	13.511	0.25645	6726.8
40.0000	0.7445	-0.0000	0.74453	0.69813	532.423	13.514	0.25646	6726.9

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.7535 ENTROPY=47.1411
GAMMA (AVG.)=1.1566 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.7535	0.7460	-0.0454	0.74739	0.66800	709.717	14.678	0.24401	7381.0
41.5781	0.7461	-0.0408	0.74726	0.67102	712.190	14.722	0.24412	7383.4
41.4028	0.7463	-0.0363	0.74714	0.67403	714.400	14.762	0.24422	7385.6
41.2274	0.7464	-0.0318	0.74704	0.67703	716.349	14.797	0.24430	7387.2
41.0521	0.7465	-0.0272	0.74695	0.68003	718.040	14.827	0.24437	7388.9
40.8767	0.7465	-0.0227	0.74687	0.68303	719.476	14.853	0.24444	7390.2
40.7014	0.7466	-0.0182	0.74681	0.68603	720.056	14.874	0.24449	7391.2
40.5260	0.7466	-0.0136	0.74676	0.68903	721.591	14.891	0.24453	7392.2
40.3507	0.7467	-0.0091	0.74673	0.69205	722.249	14.903	0.24456	7392.6
40.1753	0.7467	-0.0046	0.74670	0.69508	722.658	14.910	0.24458	7393.1
40.0000	0.7467	-0.0000	0.74670	0.69813	722.804	14.913	0.24458	7393.3

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=41.6628 ENTROPY=50.2169
GAMMA (AVG.)=1.1771 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.6628	0.7471	-0.0431	0.74831	0.66954	926.666	15.428	0.23969	8233.8
41.4965	0.7472	-0.0388	0.74819	0.67241	929.726	15.471	0.23979	8236.8
41.3302	0.7473	-0.0345	0.74809	0.67527	932.460	15.510	0.23989	8239.4
41.1639	0.7474	-0.0302	0.74799	0.67811	934.872	15.544	0.23997	8241.7
40.9976	0.7475	-0.0259	0.74791	0.68096	936.966	15.573	0.24004	8243.9
40.8314	0.7475	-0.0216	0.74784	0.68380	938.743	15.599	0.24010	8245.6
40.6651	0.7476	-0.0173	0.74779	0.68665	940.205	15.619	0.24015	8246.9
40.4988	0.7476	-0.0130	0.74774	0.68950	941.350	15.635	0.24019	8248.1
40.3325	0.7477	-0.0087	0.74771	0.69236	942.176	15.647	0.24022	8249.1
40.1663	0.7477	-0.0043	0.74769	0.69524	942.682	15.654	0.24023	8249.5
40.0000	0.7477	-0.0000	0.74768	0.69813	942.862	15.657	0.24024	8249.5

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTIITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=55.1676 ENTRPHY=29.4845
GAMMA (AVG.)=1.3851 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
55.1676	0.5711	-0.2482	0.62265	0.55292	6.922	3.307	0.67975	513.0
53.9008	0.5762	-0.2236	0.61810	0.57053	7.040	3.347	0.69143	515.4
52.6341	0.5808	-0.1993	0.61409	0.58809	7.144	3.383	0.70197	517.5
51.3673	0.5849	-0.1750	0.61056	0.60575	7.236	3.414	0.71144	519.4
50.1006	0.5885	-0.1508	0.60748	0.62363	7.316	3.442	0.71987	521.0
48.8338	0.5915	-0.1264	0.60483	0.64184	7.385	3.465	0.72724	522.3
47.5670	0.5940	-0.1018	0.60261	0.66050	7.443	3.485	0.73350	523.5
46.3003	0.5959	-0.0769	0.60082	0.67971	7.490	3.501	0.73860	524.4
45.0335	0.5972	-0.0517	0.59948	0.69957	7.524	3.512	0.74242	525.0
43.7667	0.5980	-0.0261	0.59862	0.72021	7.546	3.520	0.74488	525.5
42.5000	0.5983	0.0000	0.59828	0.74177	7.555	3.522	0.74580	525.6

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTIITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=51.5940 ENTRPHY=30.0586
GAMMA (AVG.)=1.3646 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
51.5940	0.6212	-0.1934	0.62057	0.59866	11.360	4.052	0.68859	687.2
50.6846	0.6241	-0.1741	0.64789	0.61252	11.518	4.093	0.69343	689.7
49.7752	0.6266	-0.1550	0.64551	0.62628	11.659	4.129	0.69774	692.0
48.8658	0.6289	-0.1359	0.64343	0.64003	11.783	4.161	0.70156	693.9
47.9564	0.6309	-0.1169	0.64162	0.65384	11.890	4.189	0.70490	695.6
47.0470	0.6326	-0.0978	0.64007	0.66779	11.983	4.213	0.70776	697.0
46.1376	0.6339	-0.0786	0.63878	0.68193	12.060	4.233	0.71016	698.2
45.2282	0.6350	-0.0593	0.63775	0.69633	12.121	4.249	0.71207	699.2
44.3188	0.6357	-0.0398	0.63699	0.71106	12.167	4.260	0.71349	699.9
43.4094	0.6362	-0.0200	0.63650	0.72618	12.195	4.268	0.71438	700.3
42.5000	0.6363	0.0000	0.63632	0.74177	12.205	4.270	0.71470	700.5

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.9507 ENTRPHY=30.6810
GAMMA (AVG.)=1.3426 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.9507	0.6434	-0.1643	0.66406	0.62176	17.106	4.658	0.60083	900.0
49.2056	0.6454	-0.1479	0.66214	0.63355	17.313	4.700	0.60379	902.8
48.4605	0.6472	-0.1316	0.66045	0.64524	17.497	4.737	0.60543	905.2
47.7155	0.6488	-0.1153	0.65896	0.65689	17.659	4.770	0.60875	907.3
46.9704	0.6502	-0.0991	0.65767	0.66857	17.800	4.798	0.61077	909.2
46.2253	0.6513	-0.0828	0.65657	0.68031	17.920	4.822	0.61250	910.7
45.4803	0.6523	-0.0665	0.65566	0.69218	18.020	4.842	0.61394	912.0
44.7352	0.6530	-0.0501	0.65493	0.70421	18.100	4.858	0.61508	913.1
43.9901	0.6535	-0.0336	0.65440	0.71645	18.158	4.870	0.61592	913.8
43.2450	0.6538	-0.0169	0.65406	0.72895	18.194	4.877	0.61644	914.3
42.5000	0.6539	-0.0000	0.65393	0.74176	18.208	4.880	0.61663	914.4

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.0000 ENTRPHY=31.3061
GAMMA (AVG.)=1.3252 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.0000	0.6560	-0.1463	0.67216	0.63573	24.140	5.157	0.54923	1147.3
48.3500	0.6576	-0.1317	0.67065	0.64622	24.403	5.199	0.55138	1150.3
47.7000	0.6590	-0.1171	0.66932	0.65661	24.636	5.237	0.55328	1153.0
47.0500	0.6602	-0.1026	0.66815	0.66697	24.842	5.269	0.55496	1155.4
46.4000	0.6613	-0.0881	0.66713	0.67733	25.021	5.298	0.55641	1157.4
45.7500	0.6622	-0.0736	0.66627	0.68773	25.173	5.322	0.55765	1159.1
45.1000	0.6629	-0.0591	0.66555	0.69822	25.300	5.343	0.55868	1160.6
44.4500	0.6635	-0.0445	0.66498	0.70883	25.400	5.359	0.55949	1161.7
43.8000	0.6639	-0.0298	0.66456	0.71960	25.474	5.370	0.56009	1162.5
43.1500	0.6641	-0.0150	0.66430	0.73056	25.519	5.378	0.56046	1163.0
42.5000	0.6642	-0.0000	0.66420	0.74176	25.536	5.380	0.56060	1163.2

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 8236.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHECK ANGLE=47.9584 ENTROPY=32.5010
 GAMMA (AVG.)=1.3048 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.9584	0.6697	-0.1256	0.68137	0.65159	42.056	5.913	0.49198	1743.2
47.4098	0.6708	-0.1130	0.68027	0.66056	42.452	5.955	0.49341	1747.0
46.8643	0.6718	-0.1005	0.67930	0.66945	42.804	5.993	0.49468	1750.4
46.3188	0.6727	-0.0880	0.67844	0.67831	43.114	6.026	0.49580	1753.3
45.7732	0.6735	-0.0756	0.67770	0.68716	43.384	6.055	0.49677	1755.9
45.2277	0.6741	-0.0631	0.67707	0.69604	43.614	6.080	0.49760	1758.1
44.6821	0.6747	-0.0506	0.67655	0.70497	43.804	6.100	0.49828	1759.8
44.1366	0.6751	-0.0381	0.67614	0.71398	43.954	6.116	0.49882	1761.2
43.5911	0.6754	-0.0255	0.67583	0.72309	44.064	6.128	0.49921	1762.3
43.0455	0.6755	-0.0128	0.67564	0.73235	44.132	6.135	0.49945	1762.9
42.5000	0.6756	0.0000	0.67557	0.74177	44.156	6.138	0.49954	1763.1

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 10296.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHECK ANGLE=47.4139 ENTROPY=33.5915
 GAMMA (AVG.)=1.2955 STAG. ENTHALPY=5.5854E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.4139	0.6767	-0.1144	0.68629	0.66002	65.097	6.415	0.46212	2479.4
46.9225	0.6776	-0.1030	0.68539	0.66817	65.656	6.477	0.46326	2484.2
46.4311	0.6784	-0.0915	0.68458	0.67625	66.153	6.515	0.46426	2488.5
45.9397	0.6792	-0.0802	0.68388	0.68430	66.592	6.548	0.46515	2492.3
45.4483	0.6798	-0.0688	0.68326	0.69234	66.974	6.577	0.46592	2495.5
44.9569	0.6803	-0.0574	0.68274	0.70040	67.298	6.602	0.46657	2498.3
44.4655	0.6808	-0.0461	0.68231	0.70850	67.567	6.622	0.46711	2500.5
43.9741	0.6811	-0.0346	0.68197	0.71666	67.779	6.638	0.46754	2502.3
43.4827	0.6813	-0.0232	0.68172	0.72491	67.933	6.650	0.46785	2503.6
42.9914	0.6815	-0.0116	0.68157	0.73327	68.029	6.657	0.46804	2504.4
42.5000	0.6815	0.0000	0.68151	0.74177	68.063	6.660	0.46811	2504.7

CONE SEMI-ANGLE=42.5
 FREE STREAM CONDITIONS
 MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 14414.5 FT./SEC. ENTR0PV=28.8157

CONE SEMI-ANGLE=42.5
 FREE STREAM CONDITIONS
 MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 12355.3 FT./SEC. ENTR0PV=28.8157

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=45.7973 ENTR0PV=35.8090
 GAMMA (AVG.)=1.1417 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=46.4338 ENTR0PV=34.7268
 GAMMA (AVG.)=1.1311 STAG. ENTHALPY=7.2977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	VR	VN	V	THETA	P	RHO	MU	T (K)
45.7973	0.6972	-0.0795	0.70171	0.68575	126.376	9.015	0.35128	3212.3		
45.4676	0.6976	-0.0715	0.70128	0.69139	127.125	9.062	0.35168	3214.3		
45.1378	0.6980	-0.0636	0.70090	0.69698	127.792	9.103	0.35204	3216.1		
44.8081	0.6983	-0.0556	0.70056	0.70255	128.380	9.138	0.35235	3218.0		
44.4784	0.6986	-0.0477	0.70027	0.70810	128.889	9.170	0.35263	3219.2		
44.1486	0.6989	-0.0398	0.70002	0.71364	129.322	9.197	0.35286	3220.3		
43.8189	0.6991	-0.0319	0.69982	0.71920	129.679	9.218	0.35306	3221.5		
43.4892	0.6992	-0.0240	0.69965	0.72478	129.959	9.237	0.35320	3222.0		
43.1594	0.6994	-0.0160	0.69954	0.73039	130.162	9.249	0.35332	3222.7		
42.8297	0.6994	-0.0080	0.69947	0.73605	130.287	9.256	0.35339	3223.1		
42.5000	0.6994	0.0000	0.69944	0.74177	130.331	9.259	0.35341	3223.2		

ETA	VR	VN	VR	VN	V	THETA	P	RHO	MU	T (K)
46.4338	0.6972	-0.0795	0.70171	0.68575	126.376	9.015	0.35128	3212.3		
46.1041	0.6976	-0.0715	0.70128	0.69139	127.125	9.062	0.35168	3214.3		
45.7743	0.6980	-0.0636	0.70090	0.69698	127.792	9.103	0.35204	3216.1		
45.4446	0.6983	-0.0556	0.70056	0.70255	128.380	9.138	0.35235	3218.0		
45.1149	0.6986	-0.0477	0.70027	0.70810	128.889	9.170	0.35263	3219.2		
44.7852	0.6989	-0.0398	0.70002	0.71364	129.322	9.197	0.35286	3220.3		
44.4555	0.6991	-0.0319	0.69982	0.71920	129.679	9.218	0.35306	3221.5		
44.1258	0.6992	-0.0240	0.69965	0.72478	129.959	9.237	0.35320	3222.0		
43.7961	0.6994	-0.0160	0.69954	0.73039	130.162	9.249	0.35332	3222.7		
43.4664	0.6994	-0.0080	0.69947	0.73605	130.287	9.256	0.35339	3223.1		
43.1367	0.6994	0.0000	0.69944	0.74177	130.331	9.259	0.35341	3223.2		

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 16473.8 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=45.4074 ENTRØPY=36.9022
 GAMMA (AVG.)=1.1808 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4074	0.7021	-0.0706	0.70560	0.69227	164.726	10.085	0.33492	3590.0
45.1166	0.7024	-0.0635	0.70526	0.69724	165.586	10.130	0.33527	3592.2
44.8259	0.7027	-0.0565	0.70496	0.70217	166.353	10.169	0.33558	3594.5
44.5351	0.7030	-0.0494	0.70470	0.70709	167.030	10.204	0.33586	3596.4
44.2444	0.7032	-0.0424	0.70447	0.71200	167.617	10.235	0.33607	3597.8
43.9537	0.7034	-0.0354	0.70427	0.71691	168.116	10.260	0.33628	3599.1
43.6629	0.7035	-0.0283	0.70411	0.72182	168.526	10.281	0.33645	3600.5
43.3722	0.7037	-0.0213	0.70398	0.72676	168.849	10.298	0.33659	3601.1
43.0814	0.7037	-0.0142	0.70389	0.73172	169.082	10.310	0.33666	3601.8
42.7907	0.7038	-0.0071	0.70384	0.73672	169.226	10.318	0.33672	3602.0
42.5000	0.7038	0.0000	0.70381	0.74177	169.277	10.321	0.33674	3602.2

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=45.2595 ENTRØPY=38.0313
 GAMMA (AVG.)=1.2214 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.2595	0.7039	-0.0672	0.70709	0.69477	208.208	10.572	0.33171	4142.2
44.9036	0.7042	-0.0605	0.70679	0.69948	209.238	10.614	0.33206	4145.8
44.7076	0.7045	-0.0537	0.70652	0.70416	210.158	10.650	0.33236	4149.4
44.4317	0.7047	-0.0470	0.70628	0.70883	210.969	10.683	0.33262	4152.1
44.1557	0.7049	-0.0403	0.70607	0.71349	211.673	10.711	0.33284	4154.6
43.8797	0.7051	-0.0337	0.70589	0.71815	212.272	10.735	0.33303	4156.9
43.6038	0.7052	-0.0270	0.70575	0.72282	212.764	10.755	0.33319	4158.5
43.3278	0.7053	-0.0203	0.70563	0.72751	213.151	10.770	0.33333	4159.9
43.0519	0.7054	-0.0135	0.70555	0.73223	213.432	10.781	0.33341	4160.8
42.7759	0.7055	-0.0068	0.70550	0.73697	213.603	10.788	0.33347	4161.5
42.5000	0.7055	-0.0000	0.70548	0.74176	213.665	10.790	0.33349	4162.0

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=45.2531 ENTRØPY=39.2033
GAMMA (AVG.)=1.2019 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.2531	0.7040	-0.0671	0.70716	0.69485	256.805	10.592	0.322853	4894.1
44.9778	0.7043	-0.0603	0.70686	0.69956	258.076	10.636	0.322876	4897.5
44.7025	0.7045	-0.0536	0.70659	0.70424	259.210	10.676	0.322898	4900.3
44.4271	0.7048	-0.0469	0.70635	0.70890	260.211	10.711	0.322917	4902.9
44.1518	0.7050	-0.0403	0.70614	0.71355	261.080	10.742	0.322933	4905.0
43.8755	0.7052	-0.0336	0.70597	0.71820	261.818	10.767	0.322946	4906.9
43.6012	0.7053	-0.0269	0.70582	0.72287	262.426	10.789	0.322958	4908.4
43.3259	0.7054	-0.0202	0.70571	0.72755	262.903	10.805	0.322967	4909.7
43.0506	0.7055	-0.0135	0.70562	0.73225	263.248	10.817	0.322973	4910.6
42.7753	0.7055	-0.0068	0.70557	0.73699	263.460	10.825	0.322977	4911.0
42.5000	0.7056	0.0000	0.70555	0.74177	263.536	10.827	0.322978	4911.4

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=45.1048 ENTRØPY=40.3624
GAMMA (AVG.)=1.1683 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.1048	0.7058	-0.0637	0.70867	0.69728	310.484	11.128	0.31467	5479.7
44.8444	0.7061	-0.0573	0.70840	0.70175	311.943	11.174	0.31489	5482.6
44.5839	0.7063	-0.0509	0.70816	0.70619	313.244	11.214	0.31509	5485.3
44.3234	0.7065	-0.0446	0.70794	0.71061	314.392	11.249	0.31526	5487.5
44.0629	0.7067	-0.0382	0.70776	0.71503	315.389	11.280	0.31541	5489.5
43.8024	0.7069	-0.0319	0.70760	0.71944	316.235	11.306	0.31554	5491.3
43.5419	0.7070	-0.0255	0.70747	0.72386	316.931	11.327	0.31564	5492.6
43.2814	0.7071	-0.0192	0.70737	0.72830	317.478	11.344	0.31572	5493.6
43.0209	0.7072	-0.0128	0.70729	0.73276	317.873	11.356	0.31578	5494.4
42.7605	0.7072	-0.0064	0.70725	0.73724	318.115	11.364	0.31582	5495.0
42.5000	0.7072	0.0000	0.70723	0.74177	318.202	11.366	0.31583	5495.0

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.9503 ENTRPHY=41.5038
GAMMA (AVG.)=1.1514 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.9503	0.7077	-0.0601	0.71026	0.69985	369.275	11.760	0.30273	5935.3
44.7053	0.7080	-0.0540	0.71002	0.70405	370.910	11.806	0.30292	5937.9
44.4602	0.7082	-0.0480	0.70980	0.70825	372.369	11.846	0.30309	5940.3
44.2152	0.7084	-0.0420	0.70961	0.71242	373.656	11.882	0.30324	5942.5
43.9702	0.7085	-0.0361	0.70945	0.71658	374.773	11.913	0.30337	5944.1
43.7251	0.7087	-0.0301	0.70931	0.72074	375.721	11.939	0.30348	5945.6
43.4801	0.7088	-0.0241	0.70919	0.72491	376.501	11.960	0.30357	5947.0
43.2351	0.7089	-0.0181	0.70910	0.72909	377.112	11.977	0.30364	5947.9
42.9900	0.7089	-0.0121	0.70903	0.73329	377.555	11.990	0.30369	5948.6
42.7450	0.7090	-0.0060	0.70899	0.73751	377.826	11.997	0.30373	5949.2
42.5000	0.7090	0.0000	0.70898	0.74177	377.923	11.999	0.30373	5949.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.8066 ENTRPHY=42.6691
GAMMA (AVG.)=1.1425 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.8066	0.7095	-0.0567	0.71175	0.70225	433.178	12.429	0.29238	6314.2
44.5760	0.7097	-0.0510	0.71153	0.70622	436.985	12.470	0.29255	6316.8
44.3453	0.7099	-0.0454	0.71134	0.71017	438.599	12.511	0.29270	6318.9
44.1146	0.7101	-0.0397	0.71117	0.71410	438.022	12.546	0.29283	6320.9
43.8840	0.7102	-0.0340	0.71102	0.71803	439.256	12.577	0.29295	6322.6
43.6533	0.7103	-0.0284	0.71090	0.72195	440.304	12.603	0.29305	6324.0
43.4226	0.7104	-0.0227	0.71080	0.72588	441.166	12.625	0.29313	6325.1
43.1920	0.7105	-0.0171	0.71072	0.72982	441.842	12.641	0.29319	6326.0
42.9613	0.7106	-0.0114	0.71066	0.73378	442.331	12.654	0.29324	6326.5
42.7306	0.7106	-0.0057	0.71062	0.73776	442.630	12.661	0.29327	6327.1
42.5000	0.7106	0.0000	0.71061	0.74176	442.737	12.664	0.29328	6327.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.6778 ENTRPHY=43.8600
GAMMA (AVG.)=1.1402 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.0778	0.7111	-0.0537	0.71309	0.70442	502.195	13.096	0.28366	6635.3
44.4600	0.7113	-0.0483	0.71290	0.70817	504.175	13.142	0.28382	6637.7
44.2423	0.7114	-0.0429	0.71273	0.71190	505.942	13.182	0.28396	6639.6
44.0245	0.7116	-0.0376	0.71258	0.71562	507.501	13.218	0.28407	6641.5
43.8067	0.7117	-0.0322	0.71244	0.71933	508.854	13.248	0.28418	6643.1
43.5889	0.7118	-0.0269	0.71233	0.72304	510.002	13.275	0.28427	6644.3
43.3711	0.7119	-0.0215	0.71224	0.72676	510.946	13.296	0.28434	6645.4
43.1533	0.7120	-0.0162	0.71217	0.73048	511.686	13.313	0.28440	6646.2
42.9355	0.7120	-0.0108	0.71212	0.73422	512.221	13.325	0.28444	6647.0
42.7178	0.7121	-0.0054	0.71208	0.73798	512.548	13.332	0.28447	6647.3
42.5000	0.7121	0.0000	0.71207	0.74177	512.665	13.335	0.28447	6647.5

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.5664 ENTRPHY=45.0775
GAMMA (AVG.)=1.1434 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.5664	0.7124	-0.0510	0.71426	0.70630	576.327	13.746	0.27659	6920.9
44.3597	0.7126	-0.0459	0.71409	0.70986	578.483	13.791	0.27673	6923.3
44.1531	0.7128	-0.0408	0.71393	0.71340	580.408	13.832	0.27685	6925.1
43.9464	0.7129	-0.0357	0.71380	0.71694	582.106	13.867	0.27696	6926.9
43.7398	0.7130	-0.0306	0.71368	0.72046	583.580	13.897	0.27706	6928.5
43.5332	0.7131	-0.0255	0.71358	0.72399	584.830	13.924	0.27714	6929.7
43.3265	0.7132	-0.0205	0.71349	0.72752	585.859	13.945	0.27721	6930.8
43.1199	0.7133	-0.0154	0.71343	0.73105	586.665	13.962	0.27726	6931.6
42.9132	0.7133	-0.0103	0.71338	0.73460	587.247	13.974	0.27730	6932.3
42.7066	0.7133	-0.0051	0.71335	0.73817	587.603	13.981	0.27732	6932.7
42.5000	0.7133	0.0000	0.71334	0.74177	587.731	13.984	0.27733	6932.6

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.3747 ENTRPHY=48.2308
GAMMA (AVG.)=1.1650 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

LFA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.3747	0.7148	-0.0465	0.71629	0.70955	784.035	15.046	0.28576	7645.9
44.1872	0.7149	-0.0418	0.71615	0.71278	786.695	15.090	0.28589	7648.3
43.9997	0.7151	-0.0372	0.71602	0.71600	789.071	15.129	0.28600	7650.6
43.8123	0.7152	-0.0325	0.71590	0.71921	791.168	15.163	0.28610	7652.6
43.6248	0.7153	-0.0279	0.71581	0.72241	792.987	15.194	0.28618	7654.3
43.4373	0.7153	-0.0233	0.71572	0.72562	794.532	15.220	0.28626	7655.5
43.2499	0.7154	-0.0186	0.71565	0.72882	795.802	15.240	0.28632	7657.0
43.0624	0.7155	-0.0140	0.71560	0.73204	796.797	15.257	0.28636	7657.8
42.8749	0.7155	-0.0093	0.71556	0.73526	797.515	15.269	0.28640	7658.5
42.6875	0.7155	-0.0047	0.71554	0.73850	797.955	15.276	0.28642	7658.8
42.5000	0.7155	-0.0000	0.71553	0.74176	798.112	15.278	0.28642	7659.0

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 41184.4 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=44.3222 ENTRPHY=51.4943
GAMMA (AVG.)=1.1747 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

LFA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.3222	0.7154	-0.0452	0.71685	0.71044	1023.726	15.450	0.26305	8722.4
44.1400	0.7156	-0.0407	0.71671	0.71358	1027.102	15.493	0.26318	8725.8
43.9578	0.7157	-0.0362	0.71659	0.71671	1030.117	15.531	0.26330	8728.9
43.7756	0.7158	-0.0317	0.71648	0.71983	1032.779	15.565	0.26340	8731.6
43.5933	0.7159	-0.0271	0.71639	0.72295	1035.089	15.594	0.26349	8734.1
43.4111	0.7160	-0.0226	0.71631	0.72608	1037.049	15.619	0.26356	8736.1
43.2289	0.7160	-0.0181	0.71625	0.72918	1038.661	15.639	0.26362	8737.7
43.0467	0.7161	-0.0136	0.71619	0.73231	1039.924	15.655	0.26367	8739.1
42.8644	0.7161	-0.0091	0.71616	0.73544	1040.836	15.666	0.26371	8740.1
42.6822	0.7161	-0.0045	0.71613	0.73859	1041.393	15.673	0.26373	8740.6
42.5000	0.7161	-0.0000	0.71613	0.74176	1041.593	15.676	0.26373	8740.8

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 3088.8 FT./SEC. ENTRØPY=28.8157

FLØM PRØPERTIES

SHØCK ANGLE=58.9936 ENTRØPY=29.5730
GAMMA (AVG.)=1.3822 STAG. ENTHALPY=7.4199E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
58.9936	0.5150	-0.2490	0.57206	0.57922	7.566	3.441	1.03285	538.9
57.5942	0.5207	-0.2246	0.56709	0.59807	7.689	3.481	1.05136	541.3
56.1949	0.5259	-0.2002	0.56269	0.61698	7.798	3.517	1.06847	543.4
54.7955	0.5304	-0.1759	0.55881	0.63610	7.894	3.548	1.08419	545.3
53.3961	0.5343	-0.1516	0.55542	0.65554	7.978	3.575	1.09848	546.9
51.9968	0.5377	-0.1271	0.55249	0.67543	8.050	3.599	1.11122	548.2
50.5974	0.5404	-0.1024	0.55003	0.69587	8.111	3.618	1.12226	549.4
49.1980	0.5426	-0.0774	0.54805	0.71697	8.160	3.634	1.13139	550.3
47.7987	0.5441	-0.0521	0.54656	0.73884	8.197	3.646	1.13835	551.0
46.3993	0.5450	-0.0263	0.54560	0.76160	8.220	3.653	1.14284	551.4
45.0000	0.5452	0.0000	0.54523	0.78540	8.228	3.656	1.14452	551.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRØPY=28.8157

FLØM PRØPERTIES

SHØCK ANGLE=54.8994 ENTRØPY=30.1817
GAMMA (AVG.)=1.3600 STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
54.8994	0.5749	-0.1955	0.60729	0.63033	12.410	4.183	0.77400	727.0
53.9094	0.5781	-0.1761	0.60435	0.64522	12.576	4.225	0.78038	729.6
52.9195	0.5810	-0.1568	0.60175	0.66005	12.725	4.261	0.78610	731.8
51.9296	0.5835	-0.1375	0.59946	0.67489	12.855	4.293	0.79118	733.8
50.9396	0.5856	-0.1182	0.59747	0.68984	12.969	4.321	0.79564	735.5
49.9497	0.5875	-0.0989	0.59576	0.70495	13.067	4.345	0.79948	737.0
48.9597	0.5890	-0.0795	0.59434	0.72031	13.148	4.365	0.80271	738.2
47.9698	0.5902	-0.0600	0.59321	0.73596	13.213	4.381	0.80529	739.2
46.9799	0.5910	-0.0402	0.59237	0.75198	13.261	4.393	0.80720	739.9
45.9899	0.5915	-0.0203	0.59184	0.76843	13.291	4.400	0.80840	740.3
45.0000	0.5916	-0.0000	0.59163	0.78540	13.302	4.403	0.80884	740.5

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.0922 ENTRPHY=30.8344

GAMMA IAVG.I=1.3378 STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
53.0922	0.6005	-0.1670	0.62326	0.65545	16.705	4.789	0.66884	957.3
52.2830	0.6027	-0.1503	0.62116	0.66814	18.924	4.831	0.67261	960.1
51.4738	0.6047	-0.1337	0.61929	0.68074	19.119	4.868	0.67597	962.6
50.6645	0.6064	-0.1172	0.61766	0.69334	19.291	4.901	0.67894	964.8
49.8553	0.6079	-0.1007	0.61623	0.70597	19.441	4.929	0.68153	966.6
49.0461	0.6092	-0.0842	0.61502	0.71869	19.568	4.953	0.68375	968.2
48.2369	0.6103	-0.0676	0.61401	0.73156	19.675	4.973	0.68560	969.6
47.4276	0.6111	-0.0509	0.61321	0.74461	19.759	4.989	0.68707	970.6
46.6184	0.6117	-0.0341	0.61262	0.75790	19.821	5.001	0.68815	971.4
45.8092	0.6120	-0.0172	0.61225	0.77148	19.859	5.008	0.68882	971.8
45.0000	0.6121	-0.0000	0.61211	0.78540	19.874	5.011	0.68907	972.0

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.0600 ENTRPHY=31.4846

GAMMA IAVG.I=1.3211 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.0600	0.6148	-0.1492	0.63266	0.67049	26.416	5.284	0.60924	1225.1
51.3540	0.6165	-0.1343	0.63099	0.68180	26.695	5.327	0.61193	1228.2
50.6480	0.6181	-0.1195	0.62952	0.69303	26.944	5.364	0.61432	1231.0
49.9420	0.6194	-0.1047	0.62823	0.70424	27.163	5.397	0.61643	1233.4
49.2360	0.6206	-0.0899	0.62710	0.71546	27.354	5.426	0.61827	1235.5
48.5300	0.6216	-0.0751	0.62615	0.72674	27.516	5.450	0.61983	1237.3
47.8240	0.6224	-0.0603	0.62535	0.73812	27.651	5.470	0.62113	1238.8
47.1180	0.6231	-0.0454	0.62472	0.74963	27.758	5.486	0.62216	1239.9
46.4120	0.6235	-0.0304	0.62426	0.76133	27.836	5.498	0.62292	1240.8
45.7060	0.6238	-0.0153	0.62397	0.77323	27.885	5.505	0.62339	1241.3
45.0000	0.6239	-0.0000	0.62386	0.78540	27.903	5.508	0.62356	1241.5

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NØ.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=50.9391 ENTRØPY=32.7176
GAMMA (AVG.)=1.3024 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
50.9391	0.6301	-0.1288	0.64316	0.68741	46.059	6.028	0.54476	1872.7
50.3452	0.6314	-0.1159	0.64194	0.69712	46.483	6.070	0.54654	1876.7
49.7513	0.6325	-0.1031	0.64085	0.70676	46.860	6.108	0.54812	1880.2
49.1574	0.6335	-0.0903	0.63990	0.71637	47.193	6.141	0.54952	1883.3
48.5635	0.6344	-0.0775	0.63907	0.72599	47.582	6.170	0.55073	1886.0
47.9696	0.6351	-0.0647	0.63837	0.73564	47.729	6.195	0.55176	1888.2
47.3757	0.6357	-0.0519	0.63778	0.74535	47.933	6.215	0.55261	1890.1
46.7817	0.6361	-0.0391	0.63732	0.75515	48.094	6.231	0.55328	1891.6
46.1878	0.6364	-0.0261	0.63689	0.76507	48.212	6.243	0.55378	1892.6
45.5939	0.6366	-0.0131	0.63677	0.77515	48.285	6.250	0.55408	1893.3
45.0000	0.6367	0.0000	0.63669	0.78540	48.311	6.253	0.55419	1893.5

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NØ.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=50.1245 ENTRØPY=33.8967
GAMMA (AVG.)=1.1548 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
50.1245	0.6411	-0.1135	0.65108	0.69960	71.259	6.761	0.67014	2570.5
49.6120	0.6421	-0.1021	0.65013	0.70822	71.844	6.808	0.67110	2573.2
49.0996	0.6429	-0.0907	0.64929	0.71675	72.364	6.850	0.67194	2575.8
48.5871	0.6437	-0.0794	0.64855	0.72523	72.821	6.886	0.67266	25.8.1
48.0747	0.6443	-0.0681	0.64791	0.73369	73.217	6.918	0.67331	2579.9
47.5622	0.6449	-0.0569	0.64737	0.74215	73.554	6.945	0.67385	2581.5
47.0498	0.6453	-0.0456	0.64692	0.75064	73.832	6.967	0.67430	2582.8
46.5373	0.6457	-0.0343	0.64657	0.75918	74.051	6.984	0.67465	2584.0
46.0249	0.6459	-0.0229	0.64631	0.76781	74.211	6.998	0.67490	2584.4
45.5124	0.6461	-0.0115	0.64615	0.77654	74.309	7.005	0.67507	2585.1
45.0000	0.6461	0.0000	0.64609	0.78540	74.345	7.008	0.67512	2585.2

CRME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTR0PY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.1219 ENTR0PY=35.0328
GAMMA (AVG.)=1.1301 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.1219	0.6544	-0.0933	0.66106	0.71570	102.028	8.102	0.41358	2964.4
48.7097	0.6551	-0.0839	0.66043	0.72272	102.711	8.149	0.41422	2966.8
48.2975	0.6556	-0.0746	0.65987	0.72967	103.318	8.191	0.41477	2968.5
47.8853	0.6561	-0.0653	0.65938	0.73658	103.852	8.228	0.41524	2970.5
47.4731	0.6566	-0.0560	0.65895	0.74347	104.316	8.259	0.41566	2971.9
47.0609	0.6569	-0.0467	0.65859	0.75036	104.709	8.287	0.41605	2973.1
46.6487	0.6572	-0.0374	0.65829	0.75727	105.034	8.309	0.41631	2974.2
46.2365	0.6575	-0.0281	0.65805	0.76421	105.289	8.326	0.41655	2975.1
45.8243	0.6576	-0.0188	0.65788	0.77120	105.474	8.339	0.41675	2975.6
45.4122	0.6577	-0.0094	0.65778	0.77825	105.587	8.346	0.41682	2976.1
45.0000	0.6577	-0.0000	0.65774	0.78539	105.628	8.349	0.41688	2976.2

CRME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTR0PY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=48.4700 ENTR0PY=36.1665
GAMMA (AVG.)=1.1521 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.4700	0.6630	-0.0796	0.66777	0.72646	138.424	9.403	0.38143	3328.7
48.1230	0.6635	-0.0716	0.66731	0.73238	139.206	9.448	0.38189	3330.9
47.7760	0.6639	-0.0637	0.66691	0.73826	139.903	9.490	0.38232	3332.5
47.4290	0.6642	-0.0557	0.66655	0.74411	140.517	9.525	0.38268	3334.5
47.0820	0.6645	-0.0478	0.66625	0.74995	141.050	9.556	0.38301	3335.7
46.7350	0.6648	-0.0399	0.66598	0.75579	141.502	9.582	0.38329	3337.1
46.3880	0.6650	-0.0319	0.66577	0.76164	141.875	9.604	0.38351	3338.2
46.0410	0.6652	-0.0240	0.66560	0.76751	142.168	9.621	0.38369	3339.0
45.6940	0.6653	-0.0160	0.66548	0.77342	142.380	9.634	0.38381	3339.4
45.3470	0.6654	-0.0080	0.66540	0.77938	142.510	9.640	0.38387	3340.0
45.0000	0.6654	0.0000	0.66537	0.78540	142.557	9.643	0.38390	3340.1

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.8 FT./SEC. ENTRAPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=40.1059 ENTRAPPY=37.3194
GAMMA (AVG.)=1.1991 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
48.1059	0.6678	-0.0718	0.67160	0.73255	180.444	10.373	0.36735	3761.6
47.7923	0.6681	-0.0646	0.67123	0.73784	181.357	10.417	0.36775	3764.0
47.4847	0.6684	-0.0574	0.67090	0.74311	182.171	10.455	0.36812	3766.4
47.1741	0.6687	-0.0502	0.67062	0.74836	182.889	10.490	0.36843	3768.3
46.8635	0.6690	-0.0431	0.67037	0.75360	183.513	10.520	0.36872	3770.0
46.5529	0.6692	-0.0359	0.67016	0.75884	184.042	10.546	0.36897	3771.6
46.2423	0.6694	-0.0288	0.66998	0.76409	184.479	10.567	0.36917	3772.7
45.9317	0.6695	-0.0216	0.66984	0.76936	184.821	10.583	0.36931	3773.8
45.6212	0.6696	-0.0144	0.66975	0.77467	185.069	10.595	0.36942	3774.3
45.3106	0.6696	-0.0072	0.66968	0.78001	185.221	10.602	0.36949	3774.7
45.0000	0.6697	-0.0000	0.66966	0.78540	185.276	10.605	0.36951	3774.9

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRAPPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=48.0837 ENTRAPPY=38.5307
GAMMA (AVG.)=1.2221 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
48.0837	0.6680	-0.0713	0.67183	0.73204	228.112	10.442	0.36947	4508.6
47.7753	0.6684	-0.0641	0.67147	0.73819	229.256	10.483	0.36988	4512.6
47.4670	0.6687	-0.0570	0.67115	0.74342	230.278	10.521	0.37023	4515.9
47.1586	0.6690	-0.0499	0.67087	0.74862	231.179	10.554	0.37055	4519.2
46.8502	0.6693	-0.0428	0.67062	0.75382	231.962	10.582	0.37082	4521.7
46.5418	0.6695	-0.0357	0.67041	0.75903	232.627	10.606	0.37105	4524.0
46.2335	0.6696	-0.0286	0.67024	0.76424	233.175	10.626	0.37124	4525.9
45.9251	0.6698	-0.0215	0.67011	0.76948	233.605	10.643	0.37138	4527.2
45.6167	0.6699	-0.0144	0.67001	0.77474	233.917	10.654	0.37149	4528.3
45.3084	0.6699	-0.0072	0.66995	0.78005	234.108	10.661	0.37155	4529.0
45.0000	0.6699	-0.0000	0.66992	0.78540	234.176	10.663	0.37158	4529.1

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.9584 ENTRØPY=39.7500
GAMMA (AVG.)=1.1819 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.9584	0.6697	-0.0686	0.67317	0.73497	281.340	10.828	0.35533	5191.8
47.6625	0.6700	-0.0617	0.67284	0.74003	282.701	10.873	0.35562	5195.1
47.3667	0.6703	-0.0548	0.67254	0.74506	283.915	10.913	0.35587	5197.8
47.0709	0.6706	-0.0480	0.67228	0.75007	284.986	10.948	0.35610	5200.4
46.7750	0.6708	-0.0412	0.67205	0.75507	285.915	10.979	0.35629	5202.4
46.4792	0.6710	-0.0343	0.67186	0.76007	286.705	11.005	0.35646	5204.2
46.1833	0.6711	-0.0275	0.67170	0.76509	287.355	11.026	0.35660	5205.7
45.8875	0.6713	-0.0207	0.67157	0.77012	287.865	11.043	0.35671	5206.9
45.5916	0.6713	-0.0138	0.67148	0.77517	288.235	11.055	0.35678	5207.7
45.2958	0.6714	-0.0069	0.67143	0.78027	288.461	11.063	0.35683	5208.2
45.0000	0.6714	0.0000	0.67140	0.78540	288.542	11.065	0.35684	5208.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.7785 ENTRØPY=40.9478
GAMMA (AVG.)=1.1586 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.7785	0.6720	-0.0647	0.67510	0.73794	340.152	11.449	0.34060	5725.0
47.5007	0.6723	-0.0582	0.67480	0.74270	341.702	11.494	0.34066	5727.8
47.2228	0.6726	-0.0517	0.67454	0.74744	343.085	11.535	0.34088	5730.2
46.9450	0.6728	-0.0453	0.67431	0.75216	344.304	11.570	0.34108	5732.3
46.6671	0.6730	-0.0388	0.67411	0.75687	345.363	11.601	0.34125	5734.3
46.3892	0.6732	-0.0324	0.67393	0.76158	346.262	11.627	0.34140	5735.8
46.1114	0.6733	-0.0259	0.67379	0.76630	347.001	11.649	0.34152	5737.2
45.8335	0.6734	-0.0195	0.67368	0.77103	347.582	11.666	0.34161	5738.1
45.5557	0.6735	-0.0130	0.67360	0.77579	348.001	11.678	0.34168	5738.9
45.2778	0.6735	-0.0065	0.67355	0.78057	348.259	11.685	0.34172	5739.4
45.0000	0.6735	0.0000	0.67353	0.78540	348.351	11.688	0.34174	5739.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.6051 ENTROPY=42.1556
GAMMA (AVG.)=1.1455 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.6051	0.6742	-0.0609	0.67698	0.74082	404.560	12.131	0.32732	6156.8
47.3446	0.6745	-0.0548	0.67671	0.74530	406.293	12.177	0.32754	6159.3
47.0841	0.6747	-0.0487	0.67648	0.74975	407.838	12.217	0.32774	6161.4
46.8236	0.6749	-0.0426	0.67628	0.75418	409.201	12.252	0.32791	6163.5
46.5631	0.6751	-0.0365	0.67610	0.75861	410.384	12.283	0.32806	6165.3
46.3026	0.6753	-0.0305	0.67595	0.76304	411.389	12.310	0.32819	6166.7
46.0420	0.6754	-0.0244	0.67582	0.76747	412.215	12.331	0.32830	6167.8
45.7815	0.6755	-0.0183	0.67572	0.77191	412.863	12.348	0.32838	6168.7
45.5210	0.6755	-0.0122	0.67565	0.77638	413.331	12.360	0.32844	6169.5
45.2605	0.6756	-0.0061	0.67561	0.78087	413.618	12.368	0.32847	6169.9
45.0000	0.6756	-0.0000	0.67559	0.78540	413.721	12.370	0.32848	6169.9

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.4482 ENTROPY=43.3907
GAMMA (AVG.)=1.1403 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.4482	0.6763	-0.0574	0.67869	0.74345	474.572	12.834	0.31625	6515.7
47.2034	0.6765	-0.0516	0.67845	0.74766	476.484	12.879	0.31645	6517.8
46.9585	0.6767	-0.0459	0.67825	0.75185	478.191	12.920	0.31662	6519.8
46.7137	0.6769	-0.0402	0.67806	0.75603	479.696	12.956	0.31678	6521.7
46.4689	0.6770	-0.0344	0.67791	0.76020	481.002	12.986	0.31691	6523.2
46.2241	0.6772	-0.0287	0.67777	0.76437	482.110	13.012	0.31702	6524.6
45.9792	0.6773	-0.0230	0.67766	0.76854	483.022	13.034	0.31712	6525.7
45.7344	0.6774	-0.0173	0.67757	0.77272	483.737	13.051	0.31719	6526.6
45.4896	0.6774	-0.0115	0.67751	0.77692	484.254	13.063	0.31724	6527.2
45.2448	0.6774	-0.0058	0.67747	0.78115	484.570	13.070	0.31727	6527.6
45.0000	0.6775	0.0000	0.67746	0.78540	484.684	13.073	0.31728	6527.7

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
VELOCITY= 28829.1 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.3112 ENTRPHY=44.6546
GAMMA (AVG.)=1.1417 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.3112	0.6780	-0.0543	0.68019	0.74576	550.184	13.526	0.30720	6825.2
47.3112	0.6782	-0.0489	0.67998	0.74974	552.278	13.572	0.30738	6827.3
47.3112	0.6784	-0.0435	0.67980	0.75370	554.148	13.612	0.30754	6829.3
47.3112	0.6786	-0.0380	0.67963	0.75764	555.798	13.647	0.30768	6831.1
47.3112	0.6787	-0.0326	0.67949	0.76159	557.229	13.678	0.30780	6832.5
47.3112	0.6788	-0.0272	0.67937	0.76552	558.444	13.704	0.30790	6833.9
47.3112	0.6789	-0.0218	0.67927	0.76947	559.443	13.726	0.30799	6834.8
47.3112	0.6790	-0.0164	0.67919	0.77342	560.226	13.742	0.30805	6835.7
47.3112	0.6791	-0.0109	0.67914	0.77739	560.791	13.754	0.30810	6836.4
47.3112	0.6791	-0.0055	0.67910	0.78138	561.138	13.762	0.30813	6836.7
47.3112	0.6791	0.0000	0.67909	0.78540	561.261	13.765	0.30814	6836.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=47.1969 ENTRPHY=45.9474
GAMMA (AVG.)=1.1481 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.1969	0.6795	-0.0518	0.68145	0.74769	631.400	14.171	0.30016	7113.8
47.1969	0.6797	-0.0466	0.68126	0.75147	633.685	14.215	0.30032	7115.9
47.1969	0.6798	-0.0414	0.68109	0.75524	635.726	14.255	0.30047	7117.9
47.1969	0.6800	-0.0362	0.68095	0.75900	637.527	14.291	0.30059	7119.7
47.1969	0.6801	-0.0311	0.68082	0.76274	639.089	14.321	0.30071	7121.1
47.1969	0.6802	-0.0259	0.68071	0.76649	640.416	14.347	0.30080	7122.4
47.1969	0.6803	-0.0207	0.68062	0.77025	641.506	14.368	0.30088	7123.5
47.1969	0.6804	-0.0156	0.68055	0.77401	642.361	14.385	0.30094	7124.2
47.1969	0.6804	-0.0104	0.68050	0.77778	642.978	14.397	0.30098	7125.2
47.1969	0.6804	-0.0052	0.68047	0.78158	643.356	14.404	0.30101	7125.4
47.1969	0.6805	0.0000	0.68045	0.78540	643.491	14.407	0.30102	7125.5

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 4118.4 FT./SEC. ENTRØPY=28.8157

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 5148.1 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=56.3945
GAMMA (AVG.)=1.3335

SHOCK ANGLE=56.4598
GAMMA (AVG.)=1.3555

ENTRØPY=30.9833
STAG. ENTHALPY=1.5901E 07 FT. SQ./SEC. SQ.

ENTRØPY=30.3062
STAG. ENTHALPY=1.1130E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
56.3945	0.5534	-0.1696	0.57883	0.68690	20.334	4.910	0.75668	1014.9
55.5050	0.5559	-0.1527	0.57649	0.70066	20.566	4.952	0.76157	1017.8
54.6156	0.5581	-0.1359	0.57442	0.71438	20.772	4.989	0.76612	1020.3
53.7261	0.5601	-0.1191	0.57260	0.72811	20.953	5.022	0.77016	1022.6
52.8367	0.5618	-0.1024	0.57101	0.74190	21.112	5.050	0.77370	1024.5
51.9472	0.5632	-0.0856	0.56966	0.75582	21.247	5.075	0.77674	1026.1
51.0578	0.5644	-0.0687	0.56854	0.76992	21.360	5.095	0.77927	1027.5
50.1683	0.5653	-0.0518	0.56764	0.78423	21.449	5.111	0.78129	1028.5
49.2789	0.5659	-0.0347	0.56698	0.79882	21.514	5.122	0.78278	1029.3
48.3894	0.5663	-0.0175	0.56657	0.81374	21.555	5.130	0.78371	1029.8
47.5000	0.5664	-0.0000	0.56661	0.82903	21.570	5.132	0.78405	1030.0

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
58.4598	0.5230	-0.1978	0.55918	0.65874	13.494	4.308	0.89272	767.6
57.3638	0.5266	-0.1782	0.55591	0.67489	13.669	4.349	0.90201	770.3
56.2678	0.5298	-0.1587	0.55302	0.69102	13.825	4.386	0.91041	772.5
55.1719	0.5326	-0.1392	0.55047	0.70724	13.963	4.418	0.91793	774.6
54.0759	0.5350	-0.1197	0.54825	0.72361	14.083	4.446	0.92459	776.3
52.9799	0.5371	-0.1002	0.54635	0.74021	14.185	4.470	0.93036	777.8
51.8839	0.5388	-0.0806	0.54477	0.75711	14.271	4.490	0.93523	779.0
50.7879	0.5401	-0.0608	0.54350	0.77437	14.340	4.506	0.93915	780.0
49.6920	0.5410	-0.0408	0.54256	0.79206	14.390	4.517	0.94206	780.7
48.5960	0.5416	-0.0205	0.54196	0.81026	14.422	4.525	0.94390	781.2
47.5000	0.5417	0.0000	0.54173	0.82903	14.433	4.527	0.94458	781.3

CBNE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=55.2438 ENTRPHY=31.6558
 GAMMA (AVG.)=1.3176 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.2438	0.5701	-0.1521	0.58999	0.70346	28.722	5.402	0.68417	1303.2
54.4695	0.5720	-0.1369	0.58814	0.71574	29.019	5.444	0.68770	1306.4
53.6951	0.5737	-0.1218	0.58650	0.72797	29.282	5.481	0.69085	1309.2
52.9207	0.5752	-0.1067	0.58506	0.74018	29.515	5.514	0.69364	1311.7
52.1463	0.5766	-0.0917	0.58380	0.75243	29.717	5.543	0.69607	1313.9
51.3719	0.5777	-0.0766	0.58273	0.76476	29.890	5.568	0.69815	1315.7
50.5975	0.5786	-0.0615	0.58165	0.77721	30.033	5.588	0.69988	1317.3
49.8231	0.5793	-0.0463	0.58114	0.78982	30.147	5.604	0.70124	1318.5
49.0488	0.5798	-0.0310	0.58063	0.80263	30.230	5.616	0.70225	1319.3
48.2744	0.5801	-0.0156	0.58030	0.81569	30.282	5.623	0.70288	1319.9
47.5000	0.5802	-0.0000	0.58018	0.82903	30.301	5.625	0.70310	1320.1

CBNE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 8236.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=54.0166 ENTRPHY=32.9229
 GAMMA (AVG.)=1.3004 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.0166	0.5875	-0.1320	0.60217	0.72181	50.100	6.131	0.60885	2002.6
53.3649	0.5889	-0.1188	0.60080	0.73299	50.552	6.174	0.61114	2006.7
52.7133	0.5902	-0.1056	0.59958	0.74291	50.955	6.212	0.61318	2010.4
52.0616	0.5913	-0.0925	0.59851	0.75341	51.310	6.245	0.61499	2013.6
51.4099	0.5923	-0.0795	0.59759	0.76392	51.618	6.274	0.61656	2016.4
50.7583	0.5931	-0.0664	0.59680	0.77448	51.882	6.298	0.61789	2018.8
50.1066	0.5938	-0.0532	0.59614	0.78511	52.100	6.319	0.61900	2020.7
49.4550	0.5943	-0.0401	0.59562	0.79585	52.272	6.335	0.61987	2022.3
48.8033	0.5946	-0.0268	0.59524	0.80673	52.397	6.346	0.62051	2023.4
48.1516	0.5949	-0.0135	0.59501	0.81778	52.475	6.354	0.62091	2024.1
47.5000	0.5949	0.0000	0.59492	0.82903	52.503	6.356	0.62106	2024.4

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=52.9406 ENTRØPY=34.1462
GAMMA (AVG.)=1.1431 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
52.9406	0.6026	-0.1134	0.61321	0.73796	77.484	7.036	0.51103	2664.7
52.3966	0.6036	-0.1020	0.61220	0.74709	78.092	7.084	0.51218	2666.9
51.9525	0.6045	-0.0907	0.61131	0.75613	78.632	7.126	0.51320	2669.3
51.3084	0.6053	-0.0794	0.61052	0.76513	79.107	7.163	0.51409	2671.0
50.7644	0.6060	-0.0681	0.60985	0.77411	79.519	7.196	0.51488	2672.6
50.2203	0.6066	-0.0568	0.60927	0.78309	79.870	7.222	0.51554	2674.2
49.6762	0.6071	-0.0456	0.60880	0.79211	80.159	7.245	0.51608	2675.3
49.1322	0.6075	-0.0343	0.60842	0.80119	80.386	7.263	0.51652	2676.1
48.5881	0.6077	-0.0229	0.60815	0.81036	80.552	7.275	0.51679	2676.8
48.0441	0.6079	-0.0115	0.60798	0.81963	80.654	7.283	0.51703	2677.2
47.5000	0.6079	0.0000	0.60792	0.82904	80.691	7.286	0.51709	2677.3

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=51.8500 ENTRØPY=35.3262
GAMMA (AVG.)=1.1325 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.8500	0.6177	-0.0930	0.62468	0.75549	110.927	8.454	0.44957	3058.6
51.4150	0.6184	-0.0837	0.62401	0.76288	111.633	8.501	0.45030	3061.0
50.9800	0.6190	-0.0744	0.62342	0.77020	112.262	8.542	0.45097	3062.8
50.5450	0.6195	-0.0651	0.62290	0.77749	112.816	8.579	0.45154	3064.4
50.1100	0.6199	-0.0558	0.62245	0.78476	113.296	8.611	0.45204	3065.8
49.6750	0.6203	-0.0466	0.62207	0.79204	113.704	8.637	0.45247	3067.3
49.2400	0.6206	-0.0373	0.62176	0.79933	114.040	8.659	0.45282	3068.3
48.8050	0.6209	-0.0281	0.62151	0.80666	114.305	8.676	0.45310	3069.2
48.3700	0.6210	-0.0187	0.62133	0.81404	114.496	8.689	0.45329	3069.5
47.9350	0.6211	-0.0094	0.62122	0.82149	114.614	8.697	0.45343	3069.9
47.5000	0.6212	-0.0000	0.62118	0.82903	114.657	8.699	0.45347	3070.2

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 441.14 DEG. R
VELOCITY= 16473.8 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=50.8657 ENTROPY=37.7257

GAMMA (AVG.)=1.2150 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=51.1844 ENTROPY=36.5189

GAMMA (AVG.)=1.1647 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (R)
51.1844	0.6268	-0.0800	0.63189	0.76647	150.495	9.745	0.41707	3446.0	50.8657	0.6311	-0.0735	0.63540	0.77181	196.198	10.551	0.40617	3957.7
50.8160	0.6273	-0.0719	0.63140	0.77274	151.311	9.791	0.41764	3448.3	50.5291	0.6315	-0.0662	0.63500	0.77754	197.170	10.593	0.40668	3961.0
50.4475	0.6277	-0.0639	0.63097	0.77897	152.039	9.831	0.41815	3450.1	50.1925	0.6319	-0.0588	0.63464	0.78323	198.039	10.631	0.40714	3963.6
50.0791	0.6281	-0.0560	0.63059	0.78518	152.680	9.866	0.41858	3452.0	49.8560	0.6322	-0.0515	0.63432	0.78891	198.805	10.664	0.40742	3966.0
49.7106	0.6284	-0.0480	0.63026	0.79137	153.237	9.897	0.41897	3453.6	49.5194	0.6325	-0.0442	0.63404	0.79458	199.470	10.694	0.40786	3967.8
49.3422	0.6287	-0.0400	0.62999	0.79757	153.710	9.923	0.41931	3454.7	49.1828	0.6327	-0.0368	0.63381	0.80025	200.035	10.719	0.40817	3969.4
48.9738	0.6289	-0.0321	0.62976	0.80379	154.100	9.945	0.41958	3455.7	48.8463	0.6329	-0.0295	0.63361	0.80574	200.501	10.738	0.40840	3971.4
48.6053	0.6291	-0.0241	0.62958	0.81003	154.406	9.962	0.41981	3456.4	48.5097	0.6331	-0.0222	0.63346	0.81166	200.866	10.755	0.40860	3972.3
48.2369	0.6292	-0.0161	0.62944	0.81630	154.627	9.974	0.41994	3457.2	48.1731	0.6332	-0.0148	0.63335	0.81740	201.131	10.767	0.40873	3973.1
47.8684	0.6293	-0.0081	0.62936	0.82263	154.764	9.981	0.42003	3457.5	47.8305	0.6332	-0.0074	0.63328	0.82319	201.293	10.773	0.40882	3973.9
47.5000	0.6293	-0.0000	0.62933	0.82902	154.813	9.984	0.42007	3457.6	47.5000	0.6333	0.0000	0.63325	0.82903	201.351	10.776	0.40884	3974.0

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=50.6786 ENTROPY=39.0031
GAMMA (AVG.)=1.2118 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.8786	0.6310	-0.0738	0.63526	0.77159	248.049	10.515	0.40635	4787.5
50.5408	0.6314	-0.0664	0.63485	0.77734	249.286	10.559	0.40675	4790.7
50.2029	0.6317	-0.0590	0.63449	0.78305	250.389	10.599	0.40711	4793.6
49.8650	0.6321	-0.0517	0.63417	0.78875	251.363	10.633	0.40742	4796.3
49.5272	0.6323	-0.0443	0.63389	0.79445	252.208	10.664	0.40769	4798.3
49.1893	0.6326	-0.0370	0.63365	0.80014	252.927	10.689	0.40792	4800.2
48.8514	0.6328	-0.0296	0.63346	0.80586	253.518	10.710	0.40811	4801.7
48.5136	0.6329	-0.0222	0.63330	0.81159	253.983	10.727	0.40826	4802.9
48.1757	0.6330	-0.0149	0.63319	0.81736	254.320	10.739	0.40836	4803.7
47.8378	0.6331	-0.0074	0.63312	0.82317	254.526	10.746	0.40843	4804.3
47.5000	0.6331	0.0000	0.63310	0.82903	254.600	10.749	0.40846	4804.4

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=50.6816 ENTROPY=40.7706
GAMMA (AVG.)=1.1700 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.6816	0.6336	-0.0698	0.63746	0.77480	305.915	11.079	0.38636	5438.6
50.3634	0.6340	-0.0628	0.63710	0.78023	307.359	11.124	0.38671	5441.6
50.0453	0.6343	-0.0558	0.63677	0.78564	308.647	11.164	0.38702	5444.0
49.7271	0.6346	-0.0489	0.63648	0.79103	309.783	11.200	0.38730	5446.4
49.4089	0.6349	-0.0419	0.63623	0.79641	310.769	11.230	0.38753	5448.4
49.0908	0.6351	-0.0350	0.63602	0.80179	311.607	11.256	0.38773	5450.0
48.7726	0.6352	-0.0280	0.63585	0.80718	312.296	11.278	0.38790	5451.4
48.4545	0.6354	-0.0210	0.63571	0.81259	312.837	11.295	0.38803	5452.5
48.1363	0.6355	-0.0140	0.63561	0.81803	313.229	11.307	0.38812	5453.3
47.8181	0.6355	-0.0070	0.63555	0.82351	313.469	11.314	0.38818	5453.8
47.5000	0.6355	0.0000	0.63553	0.82903	313.555	11.317	0.38820	5454.0

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 22651.6 FT./SEC. ENTR0PY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=50.4718 ENTR0PY=41.5148
 GAMMA (AVG.)=1.1513 STAG. ENTHALPY=2.5919E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.4718	0.6365	-0.0656	0.63982	0.77827	369.859	11.767	0.36956	5939.2
50.1746	0.6368	-0.0590	0.63950	0.78336	371.495	11.812	0.36986	5941.8
49.8774	0.6371	-0.0524	0.63921	0.78842	372.955	11.853	0.37013	5944.2
49.5802	0.6373	-0.0459	0.63896	0.79347	374.243	11.888	0.37036	5946.3
49.2830	0.6375	-0.0393	0.63874	0.79851	375.360	11.919	0.37056	5948.0
48.9859	0.6377	-0.0328	0.63856	0.80355	376.309	11.945	0.37074	5949.5
48.6887	0.6379	-0.0263	0.63840	0.80860	377.090	11.967	0.37088	5950.7
48.3915	0.6380	-0.0197	0.63828	0.81366	377.703	11.984	0.37099	5951.8
48.0943	0.6381	-0.0132	0.63820	0.81875	378.146	11.996	0.37107	5952.4
47.7971	0.6381	-0.0066	0.63814	0.82387	378.417	12.003	0.37112	5952.9
47.5000	0.6381	0.0000	0.63812	0.82903	378.514	12.006	0.37113	5953.0

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 24710.6 FT./SEC. ENTR0PY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=50.2789 ENTR0PY=42.7876
 GAMMA (AVG.)=1.1419 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.2789	0.6390	-0.0616	0.64201	0.78148	439.887	12.492	0.35524	6349.1
50.0010	0.6393	-0.0554	0.64173	0.78625	441.712	12.538	0.35550	6351.5
49.7231	0.6396	-0.0492	0.64147	0.79100	443.340	12.578	0.35573	6353.5
49.4452	0.6398	-0.0431	0.64125	0.79573	444.776	12.614	0.35593	6355.5
49.1673	0.6400	-0.0370	0.64106	0.80045	446.022	12.644	0.35611	6357.2
48.8894	0.6402	-0.0308	0.64090	0.80518	447.080	12.670	0.35626	6358.6
48.6115	0.6403	-0.0247	0.64076	0.80991	447.951	12.692	0.35638	6359.6
48.3337	0.6404	-0.0185	0.64066	0.81465	448.633	12.709	0.35648	6360.5
48.0558	0.6405	-0.0124	0.64058	0.81941	449.126	12.721	0.35655	6361.3
47.7779	0.6405	-0.0062	0.64053	0.82421	449.429	12.728	0.35659	6361.7
47.5000	0.6405	0.0000	0.64051	0.82903	449.537	12.731	0.35661	6361.7

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTRØPY=20.8157

FLØW PROPERTIES

SHØCK ANGLE=50.1087 ENTRØPY=44.0911
GAMMA (AVG.)=1.1404 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
50.1087	0.6413	-0.0580	0.64395	0.78433	516.005	13.223	0.34344	6692.2
49.8478	0.6416	-0.0522	0.64370	0.78882	518.017	13.269	0.34366	6694.5
49.5869	0.6418	-0.0464	0.64348	0.79328	519.814	13.310	0.34387	6696.4
49.3261	0.6420	-0.0406	0.64328	0.79773	521.399	13.345	0.34405	6698.3
49.0652	0.6422	-0.0348	0.64311	0.80217	522.774	13.375	0.34421	6699.8
48.8043	0.6423	-0.0290	0.64297	0.80661	523.941	13.402	0.34434	6701.1
48.5435	0.6424	-0.0233	0.64285	0.81106	524.901	13.423	0.34445	6702.1
48.2826	0.6425	-0.0175	0.64275	0.81552	525.654	13.440	0.34454	6702.8
48.0217	0.6426	-0.0117	0.64268	0.82000	526.198	13.452	0.34460	6703.6
47.7609	0.6426	-0.0058	0.64264	0.82450	526.551	13.460	0.34464	6704.0
47.5000	0.6426	0.0000	0.64263	0.82903	526.650	13.462	0.34465	6704.0

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=49.9649 ENTRØPY=45.4265
GAMMA (AVG.)=1.1451 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
49.9649	0.6433	-0.0550	0.64560	0.78676	598.214	13.921	0.33413	6999.0
49.7184	0.6435	-0.0495	0.64538	0.79100	600.421	13.966	0.33434	7001.2
49.4719	0.6437	-0.0440	0.64518	0.79522	602.392	14.006	0.33452	7003.1
49.2254	0.6439	-0.0385	0.64500	0.79943	604.131	14.041	0.33469	7004.8
48.9789	0.6440	-0.0330	0.64485	0.80363	605.639	14.072	0.33483	7006.3
48.7324	0.6441	-0.0275	0.64472	0.80783	606.920	14.098	0.33495	7007.6
48.4859	0.6442	-0.0220	0.64461	0.81204	607.973	14.120	0.33505	7008.6
48.2394	0.6443	-0.0166	0.64453	0.81626	608.799	14.136	0.33513	7009.6
47.9929	0.6444	-0.0110	0.64447	0.82049	609.395	14.148	0.33518	7010.1
47.7464	0.6444	-0.0055	0.64443	0.82475	609.760	14.156	0.33522	7010.4
47.5000	0.6444	0.0000	0.64442	0.82903	609.891	14.158	0.33523	7010.7

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.8501 ENTROPY=46.7924
GAMMA (AVG.)=1.1540 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.8501	0.6448	-0.0526	0.64693	0.78870	686.521	14.540	0.32723	7301.7
49.6150	0.6450	-0.0473	0.64672	0.79274	688.937	14.584	0.32742	7304.1
49.3800	0.6452	-0.0420	0.64654	0.79677	691.095	14.624	0.32759	7306.0
49.1450	0.6453	-0.0368	0.64638	0.80079	692.999	14.659	0.32775	7307.8
48.9100	0.6455	-0.0316	0.64624	0.80480	694.652	14.689	0.32788	7309.6
48.6750	0.6456	-0.0263	0.64612	0.80881	696.055	14.715	0.32799	7310.7
48.4400	0.6457	-0.0211	0.64602	0.81282	697.208	14.736	0.32808	7311.9
48.2050	0.6458	-0.0158	0.64595	0.81685	698.112	14.753	0.32816	7312.7
47.9700	0.6458	-0.0106	0.64589	0.82089	698.765	14.765	0.32821	7313.3
47.7350	0.6458	-0.0053	0.64586	0.82495	699.164	14.772	0.32824	7313.7
47.5000	0.6458	0.0000	0.64585	0.82903	699.307	14.775	0.32826	7313.8

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.7020 ENTROPY=50.3153
GAMMA (AVG.)=1.1773 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.7020	0.6468	-0.0494	0.64865	0.79121	933.980	15.435	0.31960	8267.8
49.4818	0.6469	-0.0445	0.64847	0.79500	937.061	15.479	0.31978	8270.9
49.2616	0.6471	-0.0395	0.64831	0.79878	939.815	15.517	0.31995	8273.7
49.0414	0.6472	-0.0346	0.64816	0.80254	942.245	15.552	0.32009	8275.8
48.8212	0.6474	-0.0297	0.64804	0.80630	944.354	15.581	0.32022	8278.1
48.6010	0.6475	-0.0247	0.64794	0.81007	946.144	15.606	0.32032	8279.7
48.3808	0.6475	-0.0198	0.64785	0.81383	947.617	15.627	0.32040	8281.2
48.1606	0.6476	-0.0149	0.64778	0.81761	948.770	15.643	0.32047	8282.5
47.9404	0.6477	-0.0099	0.64773	0.82140	949.603	15.655	0.32052	8283.1
47.7202	0.6477	-0.0050	0.64770	0.82520	950.112	15.662	0.32055	8283.6
47.5000	0.6477	0.0000	0.64769	0.82903	950.294	15.664	0.32056	8283.9

CONE SEMI-ANGLE=47.5
 FREE STREAM CONDITIONS
 MACH NO.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
 DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
 VELOCITY= 41186.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=49.8175 SHOCK ANGLE=49.8175 ENTRØPY=53.9184
 GAMMA (AVG.)=1.2270 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
49.8175	0.6452	-0.0518	0.64730	0.78929	1219.725	14.735	0.33523	10168.0
49.5857	0.6454	-0.0467	0.64711	0.79327	1223.946	14.777	0.33544	10173.5
49.3540	0.6456	-0.0415	0.64693	0.79723	1227.720	14.814	0.33562	10178.4
49.1222	0.6458	-0.0363	0.64677	0.80118	1231.051	14.846	0.33578	10182.7
48.8905	0.6459	-0.0311	0.64664	0.80513	1233.944	14.875	0.33593	10186.6
48.6587	0.6460	-0.0260	0.64652	0.80908	1236.400	14.899	0.33604	10189.7
48.4270	0.6461	-0.0208	0.64643	0.81304	1238.421	14.918	0.33614	10192.3
48.1952	0.6462	-0.0156	0.64635	0.81701	1240.005	14.934	0.33622	10194.4
47.9635	0.6462	-0.0104	0.64630	0.82099	1241.149	14.945	0.33628	10195.8
47.7317	0.6462	-0.0052	0.64627	0.82500	1241.849	14.952	0.33631	10196.7
47.5000	0.6463	-0.0000	0.64625	0.82903	1242.099	14.954	0.33632	10197.1

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 418.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=62.4796 ENTROPY=30.4287
GAMMA (AVG.)=1.3510 STAG. ENTHALPY=1.1130E 07 FT. SD./SEC. SD.

L/A	VR	VN	V	THETA	P	RHR	MU	T (K)	ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
62.4796	0.4620	-0.2002	0.50350	0.68153	14.640	4.429	1.09089	810.1	59.9496	0.5007	-0.1723	0.52952	0.71496	22.004	5.024	0.87952	1073.4
61.2316	0.4661	-0.1805	0.49980	0.69929	14.824	4.470	1.10827	812.7	58.9547	0.5035	-0.1551	0.52688	0.73006	22.248	5.066	0.88713	1076.3
59.9837	0.4698	-0.1608	0.49651	0.71714	14.987	4.506	1.12443	815.1	57.9597	0.5060	-0.1381	0.52455	0.74515	22.465	5.103	0.89400	1078.9
58.7357	0.4730	-0.1411	0.49361	0.73518	15.132	4.538	1.13932	817.1	56.9647	0.5083	-0.1211	0.52249	0.76031	22.657	5.136	0.90013	1081.2
57.4878	0.4758	-0.1214	0.49107	0.75347	15.258	4.566	1.15284	818.9	55.9698	0.5102	-0.1041	0.52070	0.77588	22.824	5.164	0.90554	1083.1
56.2398	0.4782	-0.1017	0.48890	0.77209	15.366	4.590	1.16587	820.4	54.9748	0.5118	-0.0870	0.51917	0.79103	22.965	5.189	0.91021	1084.8
54.9918	0.4802	-0.0818	0.48708	0.79111	15.456	4.610	1.17524	821.6	53.9798	0.5132	-0.0699	0.51789	0.80670	23.085	5.209	0.91413	1086.2
53.7434	0.4817	-0.0617	0.48562	0.81061	15.529	4.626	1.18376	822.6	52.9849	0.5142	-0.0527	0.51688	0.82264	23.180	5.225	0.91726	1087.3
52.4959	0.4828	-0.0414	0.48453	0.83065	15.582	4.638	1.19019	823.4	51.9899	0.5149	-0.0353	0.51613	0.83892	23.249	5.236	0.91958	1088.1
51.2479	0.4834	-0.0209	0.48385	0.85131	15.616	4.646	1.19431	823.8	50.9949	0.5154	-0.0178	0.51566	0.85558	23.292	5.244	0.92103	1088.6
50.0000	0.4836	0.0000	0.48358	0.87267	15.628	4.648	1.19583	824.0	50.0000	0.5155	0.0000	0.51547	0.87268	23.308	5.247	0.92156	1088.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 518.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=59.9496 ENTROPY=31.1290
GAMMA (AVG.)=1.3295 STAG. ENTHALPY=1.5901E 07 FT. SD./SEC. SD.

L/A	VR	VN	V	THETA	P	RHR	MU	T (K)	ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
62.4796	0.5007	-0.1723	0.52952	0.71496	22.004	5.024	0.87952	1073.4	59.9496	0.5007	-0.1723	0.52952	0.71496	22.004	5.024	0.87952	1073.4
61.2316	0.5035	-0.1551	0.52688	0.73006	22.248	5.066	0.88713	1076.3	58.9547	0.5035	-0.1551	0.52688	0.73006	22.248	5.066	0.88713	1076.3
59.9837	0.5060	-0.1381	0.52455	0.74515	22.465	5.103	0.89400	1078.9	57.9597	0.5060	-0.1381	0.52455	0.74515	22.465	5.103	0.89400	1078.9
58.7357	0.5083	-0.1211	0.52249	0.76031	22.657	5.136	0.90013	1081.2	56.9647	0.5083	-0.1211	0.52249	0.76031	22.657	5.136	0.90013	1081.2
57.4878	0.5102	-0.1041	0.52070	0.77588	22.824	5.164	0.90554	1083.1	55.9698	0.5102	-0.1041	0.52070	0.77588	22.824	5.164	0.90554	1083.1
56.2398	0.5118	-0.0870	0.51917	0.79103	22.965	5.189	0.91021	1084.8	54.9748	0.5118	-0.0870	0.51917	0.79103	22.965	5.189	0.91021	1084.8
54.9918	0.5132	-0.0699	0.51789	0.80670	23.085	5.209	0.91413	1086.2	53.9798	0.5132	-0.0699	0.51789	0.80670	23.085	5.209	0.91413	1086.2
53.7434	0.5142	-0.0527	0.51688	0.82264	23.180	5.225	0.91726	1087.3	52.9849	0.5142	-0.0527	0.51688	0.82264	23.180	5.225	0.91726	1087.3
52.4959	0.5149	-0.0353	0.51613	0.83892	23.249	5.236	0.91958	1088.1	51.9899	0.5149	-0.0353	0.51613	0.83892	23.249	5.236	0.91958	1088.1
51.2479	0.5154	-0.0178	0.51566	0.85558	23.292	5.244	0.92103	1088.6	50.9949	0.5154	-0.0178	0.51566	0.85558	23.292	5.244	0.92103	1088.6
50.0000	0.5155	0.0000	0.51547	0.87268	23.308	5.247	0.92156	1088.8	50.0000	0.5155	0.0000	0.51547	0.87268	23.308	5.247	0.92156	1088.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 6177.7 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=58.6112 ENTRPHY=31.8208
GAMMA (AVG.)=1.3146 STAG. ENTHALPY=2.1731E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
98.6112	0.5208	-0.1549	0.5436	0.73383	31.062	5.510	0.78356	1381.6
97.7501	0.5230	-0.1395	0.54128	0.74730	31.375	5.552	0.78855	1385.0
96.8884	0.5250	-0.1241	0.53943	0.76073	31.654	5.590	0.79301	1387.9
96.0278	0.5267	-0.1088	0.53780	0.77419	31.900	5.623	0.79698	1390.5
95.1667	0.5282	-0.0935	0.53638	0.78771	32.114	5.651	0.80045	1392.7
94.3056	0.5294	-0.0781	0.53518	0.80134	32.297	5.678	0.80343	1394.6
93.4445	0.5305	-0.0627	0.53417	0.81512	32.449	5.696	0.80591	1396.2
92.5833	0.5313	-0.0472	0.53338	0.82911	32.569	5.712	0.80789	1397.4
91.7222	0.5319	-0.0316	0.53279	0.84333	32.657	5.724	0.80934	1398.3
90.8611	0.5322	-0.0159	0.53242	0.85783	32.712	5.731	0.81025	1398.9
90.0000	0.5323	-0.0000	0.53228	0.87266	32.732	5.734	0.81058	1399.1

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 8236.9 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=57.2262 ENTRPHY=33.1177
GAMMA (AVG.)=1.2988 STAG. ENTHALPY=3.6573E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
97.2262	0.5413	-0.1351	0.55790	0.75426	54.168	6.225	0.69012	2132.6
96.5035	0.5429	-0.1216	0.55635	0.76587	54.649	6.267	0.69324	2137.0
95.7809	0.5443	-0.1081	0.55498	0.77744	55.076	6.305	0.69602	2140.8
95.0583	0.5456	-0.0946	0.55377	0.78900	55.454	6.338	0.69848	2144.2
94.3357	0.5467	-0.0814	0.55272	0.80059	55.782	6.367	0.70062	2147.1
93.6131	0.5476	-0.0680	0.55182	0.81225	56.062	6.392	0.70245	2149.6
92.8904	0.5484	-0.0545	0.55108	0.82401	56.294	6.412	0.70397	2151.6
92.1678	0.5490	-0.0410	0.55049	0.83590	56.477	6.428	0.70518	2153.2
91.4452	0.5494	-0.0275	0.55006	0.84795	56.610	6.440	0.70606	2154.4
90.7226	0.5496	-0.0138	0.54979	0.86019	56.693	6.447	0.70660	2155.1
90.0000	0.5497	-0.0000	0.54969	0.87266	56.723	6.450	0.70680	2155.4

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 10296.1 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=55.8080 ENTRØPY=34.3834
GAMMA (AVG.)=1.1364 STAG. ENTHALPY=5.5654E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
54.8080	0.5620	-0.1130	0.57321	0.77553	83.697	7.317	0.56049	2747.0
54.2272	0.5630	-0.1017	0.57214	0.78524	84.324	7.365	0.56191	2749.3
54.6464	0.5640	-0.0904	0.57119	0.79487	84.882	7.407	0.56319	2751.5
54.0656	0.5648	-0.0791	0.57036	0.80446	85.373	7.444	0.56434	2753.5
53.4848	0.5656	-0.0679	0.56964	0.81403	85.799	7.476	0.56532	2754.9
52.9040	0.5662	-0.0567	0.56902	0.82362	86.161	7.503	0.56612	2756.4
52.3232	0.5667	-0.0454	0.56852	0.83325	86.459	7.526	0.56681	2757.4
51.7424	0.5671	-0.0341	0.56812	0.84294	86.694	7.543	0.56734	2758.4
51.1616	0.5674	-0.0228	0.56783	0.85273	86.865	7.557	0.56772	2758.8
50.5808	0.5675	-0.0114	0.56765	0.86263	86.970	7.564	0.56798	2759.3
50.0000	0.5676	0.0000	0.56758	0.87268	87.008	7.567	0.56804	2759.3

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 12355.3 FT./SEC. ENTRØPY=28.8157

FLØW PROPERTIES

SHØCK ANGLE=54.6294 ENTRØPY=35.6068
GAMMA (AVG.)=1.1369 STAG. ENTHALPY=7.8977E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
54.6294	0.5789	-0.0928	0.58625	0.79445	119.788	8.784	0.49267	3147.7
54.1665	0.5796	-0.0835	0.58554	0.80228	120.518	8.831	0.49358	3149.9
53.7035	0.5802	-0.0742	0.58492	0.81006	121.168	8.872	0.49436	3151.7
53.2406	0.5807	-0.0650	0.58437	0.81781	121.741	8.909	0.49508	3153.3
52.7776	0.5812	-0.0557	0.58389	0.82554	122.238	8.939	0.49571	3155.0
52.3147	0.5816	-0.0465	0.58349	0.83328	122.660	8.967	0.49627	3155.8
51.8518	0.5820	-0.0373	0.58315	0.84104	123.008	8.988	0.49669	3157.1
51.3888	0.5822	-0.0280	0.58289	0.84885	123.282	9.006	0.49702	3157.7
50.9259	0.5824	-0.0187	0.58270	0.85670	123.480	9.019	0.49726	3158.2
50.4629	0.5825	-0.0094	0.58258	0.86464	123.602	9.026	0.49741	3158.8
50.0000	0.5825	-0.0000	0.58253	0.87266	123.646	9.029	0.49748	3158.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 14414.5 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.9539 ENTRPHY=35.8423
GAMMA AVG.=1.1782 STAG. ENTHALPY=1.0654E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.9539	0.5884	-0.0806	0.59392	0.80561	162.513	10.036	0.45993	3567.0
53.5585	0.5890	-0.0725	0.59340	0.81232	163.366	10.081	0.46062	3569.4
53.1631	0.5894	-0.0644	0.59293	0.81899	164.126	10.121	0.46126	3571.5
52.7677	0.5898	-0.0564	0.59252	0.82564	164.796	10.157	0.46180	3573.2
52.3723	0.5902	-0.0484	0.59217	0.83228	165.378	10.187	0.46226	3574.7
51.9769	0.5905	-0.0404	0.59186	0.83893	165.873	10.212	0.46268	3576.2
51.5815	0.5907	-0.0323	0.59162	0.84560	166.280	10.234	0.46301	3577.1
51.1861	0.5909	-0.0243	0.59142	0.85229	166.600	10.250	0.46325	3578.1
50.7907	0.5911	-0.0162	0.59128	0.85903	166.832	10.262	0.46346	3578.8
50.3954	0.5911	-0.0081	0.59119	0.86582	166.974	10.269	0.46358	3579.4
50.0000	0.5912	0.0000	0.59116	0.87268	167.025	10.272	0.46362	3579.3

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=100000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 16473.0 FT./SEC. ENTRPHY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.7298 ENTRPHY=38.1247
GAMMA AVG.=1.2220 STAG. ENTHALPY=1.3834E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.7298	0.5916	-0.0764	0.59650	0.80935	211.893	10.554	0.45406	4207.6
53.3368	0.5921	-0.0687	0.59603	0.81567	212.942	10.595	0.45470	4211.4
52.9438	0.5925	-0.0611	0.59562	0.82196	213.879	10.632	0.45528	4214.7
52.5508	0.5928	-0.0535	0.59525	0.82824	214.706	10.664	0.45581	4218.1
52.1579	0.5932	-0.0459	0.59493	0.83451	215.424	10.692	0.45624	4220.7
51.7649	0.5934	-0.0383	0.59466	0.84079	216.034	10.716	0.45663	4223.0
51.3719	0.5936	-0.0307	0.59444	0.84709	216.536	10.735	0.45695	4224.8
51.1189	0.5938	-0.0230	0.59427	0.85341	216.931	10.751	0.45718	4226.2
50.7459	0.5939	-0.0154	0.59414	0.85978	217.217	10.762	0.45735	4227.1
50.3730	0.5940	-0.0077	0.59406	0.86619	217.392	10.768	0.45746	4228.0
50.0000	0.5940	-0.0000	0.59403	0.87266	217.455	10.771	0.45750	4228.2

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 18533.0 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.6702 ENTRØPY=39.4524
GAMMA (AVG.)=1.1913 STAG. ENTHALPY=1.7439E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
53.4285	0.5958	-0.0753	0.59720	0.81028	267.878	10.698	0.44392	5032.2
53.0857	0.5962	-0.0678	0.59674	0.81652	269.189	10.743	0.44442	5035.6
52.7428	0.5966	-0.0602	0.59634	0.82273	270.359	10.785	0.44485	5038.6
52.3999	0.5969	-0.0527	0.59598	0.82892	271.391	10.818	0.44523	5041.1
52.0571	0.5972	-0.0452	0.59567	0.83510	272.288	10.848	0.44557	5043.4
51.7142	0.5974	-0.0377	0.59541	0.84129	273.050	10.874	0.44585	5045.3
51.3714	0.5976	-0.0302	0.59519	0.84749	273.677	10.895	0.44608	5046.9
51.0285	0.5977	-0.0227	0.59502	0.85372	274.169	10.912	0.44626	5048.1
50.6857	0.5978	-0.0152	0.59490	0.85999	274.526	10.924	0.44640	5049.1
50.3428	0.5979	-0.0076	0.59482	0.86630	274.745	10.931	0.44648	5049.7
50.0000	0.5979	0.0000	0.59480	0.87267	274.823	10.934	0.44651	5049.8

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 20592.2 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.4285 ENTRØPY=40.7566
GAMMA (AVG.)=1.1615 STAG. ENTHALPY=2.1467E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
53.4285	0.5958	-0.0708	0.60001	0.81423	330.354	11.344	0.42204	5647.8
53.0857	0.5962	-0.0637	0.59861	0.82008	331.874	11.389	0.42246	5650.6
52.7428	0.5966	-0.0566	0.59826	0.82591	333.230	11.429	0.42284	5653.1
52.3999	0.5969	-0.0496	0.59894	0.83171	334.426	11.465	0.42317	5655.2
52.0571	0.5972	-0.0425	0.59867	0.83751	335.464	11.495	0.42346	5657.1
51.7142	0.5974	-0.0355	0.59844	0.84330	336.346	11.522	0.42370	5658.7
51.3714	0.5976	-0.0284	0.59825	0.84911	337.072	11.543	0.42390	5660.0
51.0285	0.5977	-0.0213	0.59810	0.85495	337.641	11.560	0.42406	5661.1
50.6857	0.5978	-0.0142	0.59799	0.86081	338.053	11.572	0.42417	5661.9
50.3428	0.5979	-0.0071	0.59793	0.86671	338.306	11.579	0.42424	5662.3
50.0000	0.5979	0.0000	0.59790	0.87267	338.396	11.582	0.42427	5662.5

COMB SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 22651.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=53.1910 ENTROPY=42.0616
GAMMA IAVG.=1.1462 STAG. ENTHALPY=2.5819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.1910	0.5991	-0.0663	0.60280	0.81816	399.391	12.078	0.40320	6126.1
52.8719	0.5995	-0.0596	0.60245	0.82363	401.109	12.123	0.40356	6128.7
52.5528	0.5998	-0.0530	0.60214	0.82906	402.642	12.163	0.40388	6131.1
52.2337	0.6001	-0.0464	0.60187	0.83448	403.994	12.199	0.40416	6133.0
51.9146	0.6003	-0.0398	0.60163	0.83989	405.167	12.230	0.40440	6134.7
51.5955	0.6005	-0.0332	0.60143	0.84530	406.163	12.256	0.40461	6136.2
51.2764	0.6007	-0.0266	0.60126	0.85072	406.983	12.276	0.40478	6137.2
50.9573	0.6008	-0.0200	0.60113	0.85616	407.625	12.294	0.40491	6138.3
50.6382	0.6009	-0.0133	0.60104	0.86163	408.090	12.307	0.40501	6138.9
50.3191	0.6009	-0.0067	0.60098	0.86712	408.375	12.314	0.40507	6139.3
50.0000	0.6010	0.0000	0.60096	0.87267	408.477	12.317	0.40508	6139.5

COMB SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 24710.6 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.9777 ENTROPY=43.3980
GAMMA IAVG.=1.1403 STAG. ENTHALPY=3.0796E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.9777	0.6021	-0.0622	0.60533	0.82172	474.997	12.839	0.38748	6517.3
52.6799	0.6024	-0.0560	0.60502	0.82683	476.910	12.894	0.38779	6519.6
52.3822	0.6027	-0.0497	0.60475	0.83191	478.617	12.924	0.38807	6521.8
52.0844	0.6029	-0.0435	0.60451	0.83698	480.122	12.959	0.38831	6523.6
51.7866	0.6031	-0.0373	0.60430	0.84204	481.429	12.990	0.38852	6525.1
51.4888	0.6033	-0.0311	0.60412	0.84710	482.538	13.016	0.38870	6526.7
51.1911	0.6035	-0.0249	0.60398	0.85217	483.450	13.038	0.38885	6527.6
50.8933	0.6036	-0.0187	0.60386	0.85725	484.166	13.055	0.38897	6528.5
50.5955	0.6036	-0.0125	0.60378	0.86236	484.683	13.067	0.38905	6529.1
50.2977	0.6037	-0.0063	0.60373	0.86749	484.999	13.075	0.38910	6529.4
50.0000	0.6037	0.0000	0.60371	0.87267	485.113	13.077	0.38912	6529.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 26769.9 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.7946 ENTROPY=44.7683
GAMMA (AVG.)=1.1421 STAG. ENTHALPY=3.6096E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.7946	0.6047	-0.0586	0.60751	0.82479	557.178	13.586	0.37490	6851.3
52.5151	0.6049	-0.0527	0.60724	0.82959	559.288	13.631	0.37517	6853.7
52.2357	0.6052	-0.0469	0.60699	0.83437	561.172	13.671	0.37542	6855.6
51.9562	0.6054	-0.0410	0.60678	0.83913	562.833	13.707	0.37563	6857.3
51.6767	0.6056	-0.0352	0.60660	0.84389	564.276	13.737	0.37582	6859.0
51.3973	0.6057	-0.0293	0.60644	0.84865	565.500	13.764	0.37598	6860.1
51.1178	0.6059	-0.0235	0.60631	0.85341	566.507	13.785	0.37611	6861.3
50.8383	0.6060	-0.0176	0.60621	0.85819	567.296	13.802	0.37621	6862.0
50.5589	0.6060	-0.0118	0.60614	0.86299	567.866	13.814	0.37628	6862.6
50.2794	0.6061	-0.0059	0.60609	0.86781	568.215	13.821	0.37634	6862.9
50.0000	0.6061	0.0000	0.60607	0.87267	568.340	13.824	0.37635	6863.2

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 28829.1 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.6454 ENTROPY=46.1728
GAMMA (AVG.)=1.1496 STAG. ENTHALPY=4.1821E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.6454	0.6067	-0.0557	0.60930	0.82731	645.939	14.273	0.36537	7163.2
52.3808	0.6070	-0.0501	0.60905	0.83185	648.258	14.318	0.36562	7165.6
52.1163	0.6072	-0.0445	0.60883	0.83638	650.329	14.358	0.36585	7167.7
51.8517	0.6074	-0.0390	0.60864	0.84089	652.157	14.393	0.36604	7169.4
51.5872	0.6076	-0.0334	0.60848	0.84540	653.743	14.424	0.36622	7171.0
51.3227	0.6077	-0.0279	0.60834	0.84991	655.089	14.450	0.36636	7172.1
51.0581	0.6078	-0.0223	0.60822	0.85443	656.196	14.471	0.36648	7173.2
50.7936	0.6079	-0.0168	0.60813	0.85895	657.064	14.488	0.36657	7174.1
50.5291	0.6080	-0.0112	0.60806	0.86350	657.690	14.500	0.36664	7174.7
50.2645	0.6080	-0.0056	0.60802	0.86807	658.074	14.507	0.36668	7175.0
50.0000	0.6080	0.0000	0.60801	0.87267	658.211	14.509	0.36670	7175.4

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 30888.3 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.5325 ENTROPY=47.6089
GAMMA (AVG.)=1.1602 STAG. ENTHALPY=4.7969E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.5325	0.6083	-0.0535	0.61065	0.82921	741.287	14.848	0.35873	7491.3
52.2793	0.6085	-0.0481	0.61043	0.83357	743.837	14.892	0.35897	7493.8
52.0260	0.6087	-0.0428	0.61023	0.83790	746.115	14.932	0.35918	7495.9
51.7727	0.6089	-0.0374	0.61005	0.84223	748.126	14.966	0.35937	7497.7
51.5195	0.6091	-0.0321	0.60990	0.84655	749.871	14.997	0.35953	7499.4
51.2662	0.6092	-0.0268	0.60977	0.85087	751.352	15.022	0.35967	7500.8
51.0130	0.6093	-0.0214	0.60966	0.85520	752.570	15.043	0.35978	7501.9
50.7597	0.6094	-0.0161	0.60958	0.85953	753.524	15.060	0.35986	7502.8
50.5065	0.6094	-0.0107	0.60952	0.86389	754.213	15.072	0.35993	7503.4
50.2532	0.6095	-0.0054	0.60946	0.86826	754.635	15.079	0.35996	7503.7
50.0000	0.6095	0.0000	0.60947	0.87267	754.786	15.082	0.35998	7503.9

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF
DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K
VELOCITY= 36036.4 FT./SEC. ENTROPY=28.8157

FLOW PROPERTIES

SHOCK ANGLE=52.4224 ENTROPY=51.2977
GAMMA (AVG.)=1.1748 STAG. ENTHALPY=6.5196E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.4224	0.6098	-0.0513	0.61198	0.83108	1008.514	15.459	0.35269	8640.0
52.1802	0.6100	-0.0461	0.61178	0.83524	1011.836	15.501	0.35291	8643.5
51.9380	0.6102	-0.0410	0.61160	0.83939	1014.804	15.539	0.35311	8646.7
51.6957	0.6104	-0.0359	0.61143	0.84353	1017.423	15.573	0.35329	8649.2
51.4535	0.6105	-0.0308	0.61129	0.84766	1019.696	15.603	0.35344	8651.6
51.2112	0.6106	-0.0257	0.61117	0.85180	1021.626	15.627	0.35356	8653.5
50.9690	0.6107	-0.0205	0.61108	0.85594	1023.213	15.648	0.35367	8655.1
50.7267	0.6108	-0.0154	0.61100	0.86010	1024.457	15.664	0.35375	8656.4
50.4845	0.6109	-0.0103	0.61094	0.86426	1025.355	15.675	0.35382	8657.3
50.2422	0.6109	-0.0052	0.61091	0.86845	1025.904	15.682	0.35385	8657.9
50.0000	0.6109	0.0000	0.61090	0.87266	1026.100	15.685	0.35387	8658.0

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NØ.=40.00 ALTITUDE=125000.0 FEET PRESSURE=7.7690E 00 PSF

DENSITY=1.0260E-05 SLUGS/CU. FT. TEMPERATURE= 245.08 DEG. K

VELOCITY= 41184.4 FT./SEC. ENTRØPY=28.8157

FLOW PROPERTIES

SHØCK ANGLE=52.6082 ENTRØPY=55.0237
GAMMA (AVG.)=1.2143 STAG. ENTHALPY=8.5073E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
52.6082	0.6073	-0.0549	0.60974	0.82798	1317.205	14.464	0.37300	10987.7
52.3474	0.6075	-0.0494	0.60950	0.83245	1321.857	14.506	0.37327	10993.6
52.0866	0.6077	-0.0439	0.60929	0.83690	1326.016	14.544	0.37350	10998.9
51.8257	0.6079	-0.0385	0.60911	0.84134	1329.686	14.577	0.37371	11003.6
51.5649	0.6081	-0.0330	0.60895	0.84578	1332.874	14.606	0.37389	11007.6
51.3041	0.6082	-0.0275	0.60881	0.85023	1335.580	14.630	0.37404	11011.1
51.0433	0.6083	-0.0220	0.60870	0.85468	1337.807	14.650	0.37416	11013.8
50.7825	0.6084	-0.0165	0.60861	0.85914	1339.552	14.666	0.37425	11015.9
50.5216	0.6084	-0.0110	0.60854	0.86362	1340.813	14.678	0.37433	11017.6
50.2608	0.6085	-0.0055	0.60850	0.86813	1341.585	14.685	0.37437	11018.5
50.0000	0.6085	-0.0000	0.60849	0.87266	1341.861	14.687	0.37438	11018.8

TABLE 8

Flow Properties For Cone Angles From 2.5° to 50°
At Various Mach Numbers For An Altitude of 155,000 Feet.

CBNE SEMI-ANGLE = 2.5
FREE STREAM CONDITIONS

MACH NR. = 24.00 ALTITUDE = 155500.0 FEET PRESSURE = 2.3030E 00 PSF
DENSITY = 2.7550E-06 SLUGS/CU. FT. TEMPERATURE = 270.56 DEG. K
VELOCITY = 25963.4 FT./SEC. ENTRPHY = 30.3778

FLOW PROPERTIES

SHOCK ANGLE = 3.5577 ENTRPHY = 30.4480
GAMMA (AVG.) = 1.3975 STAG. ENTHALPY = 3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.5577	0.9981	-0.0336	0.99864	0.02839	2.421	1.844	0.04779	353.2
3.4519	0.9981	-0.0302	0.99859	0.03000	2.499	1.886	0.04800	358.4
3.3461	0.9982	-0.0269	0.99854	0.03148	2.564	1.921	0.04818	361.1
3.2404	0.9982	-0.0236	0.99851	0.03291	2.621	1.952	0.04833	363.3
3.1346	0.9983	-0.0204	0.99848	0.03432	2.670	1.978	0.04846	365.2
3.0288	0.9983	-0.0171	0.99845	0.03573	2.713	2.000	0.04857	366.9
2.9231	0.9983	-0.0138	0.99843	0.03717	2.749	2.020	0.04866	368.3
2.8173	0.9984	-0.0105	0.99841	0.03866	2.779	2.035	0.04874	369.4
2.7115	0.9984	-0.0071	0.99839	0.04022	2.802	2.047	0.04879	370.3
2.6058	0.9984	-0.0036	0.99838	0.04187	2.817	2.055	0.04883	370.8
2.5000	0.9984	0.0000	0.99838	0.04363	2.823	2.058	0.04884	371.1

CBNE SEMI-ANGLE = 2.5
FREE STREAM CONDITIONS

MACH NR. = 26.00 ALTITUDE = 155500.0 FEET PRESSURE = 2.3030E 00 PSF
DENSITY = 2.7550E-06 SLUGS/CU. FT. TEMPERATURE = 270.56 DEG. K
VELOCITY = 28127.0 FT./SEC. ENTRPHY = 30.3778

FLOW PROPERTIES

SHOCK ANGLE = 3.4500 ENTRPHY = 30.4754
GAMMA (AVG.) = 1.3969 STAG. ENTHALPY = 3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.4500	0.9982	-0.0305	0.99865	0.02967	2.690	1.973	0.04494	368.9
3.3550	0.9982	-0.0274	0.99861	0.03113	2.770	2.015	0.04513	372.0
3.2600	0.9983	-0.0244	0.99857	0.03250	2.839	2.051	0.04528	374.6
3.1650	0.9983	-0.0214	0.99854	0.03382	2.898	2.081	0.04542	376.8
3.0700	0.9983	-0.0184	0.99852	0.03512	2.950	2.108	0.04553	378.7
2.9750	0.9984	-0.0155	0.99849	0.03642	2.994	2.130	0.04563	380.3
2.8800	0.9984	-0.0125	0.99847	0.03775	3.032	2.150	0.04571	381.6
2.7850	0.9984	-0.0095	0.99846	0.03912	3.063	2.165	0.04578	382.7
2.6900	0.9984	-0.0064	0.99845	0.04054	3.087	2.177	0.04583	383.6
2.5950	0.9984	-0.0032	0.99844	0.04204	3.102	2.185	0.04586	384.1
2.5000	0.9984	0.0000	0.99844	0.04363	3.108	2.188	0.04587	384.3

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 3.3619 ENTROPY=30.5078
GAMMA (AVG.)=1.3961 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

EFA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.3619	0.9983	-0.0279	0.99867	0.03076	2.980	2.104	0.04253	383.3
3.2757	0.9983	-0.0250	0.99863	0.03210	3.063	2.146	0.04269	386.3
3.1895	0.9984	-0.0223	0.99860	0.03336	3.135	2.181	0.04283	388.8
3.1033	0.9984	-0.0195	0.99857	0.03459	3.197	2.212	0.04295	391.0
3.0171	0.9984	-0.0168	0.99855	0.03580	3.251	2.239	0.04305	392.9
2.9309	0.9984	-0.0141	0.99853	0.03701	3.297	2.262	0.04314	394.4
2.8448	0.9985	-0.0114	0.99852	0.03824	3.337	2.281	0.04321	395.8
2.7586	0.9985	-0.0086	0.99850	0.03950	3.369	2.297	0.04327	396.9
2.6724	0.9985	-0.0058	0.99849	0.04081	3.393	2.309	0.04331	397.7
2.5862	0.9985	-0.0030	0.99849	0.04218	3.409	2.316	0.04334	398.2
2.5000	0.9985	-0.0000	0.99848	0.04363	3.415	2.319	0.04335	398.4

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 3.2888 ENTROPY=30.5453
GAMMA (AVG.)=1.3952 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

EFA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.2888	0.9984	-0.0257	0.99868	0.03169	3.291	2.235	0.04045	398.5
3.2099	0.9984	-0.0231	0.99865	0.03293	3.377	2.277	0.04060	401.4
3.1310	0.9984	-0.0205	0.99863	0.03410	3.452	2.312	0.04072	403.9
3.0521	0.9984	-0.0180	0.99860	0.03525	3.516	2.343	0.04083	406.0
2.9733	0.9985	-0.0155	0.99858	0.03637	3.573	2.370	0.04092	407.8
2.8944	0.9985	-0.0130	0.99857	0.03751	3.621	2.393	0.04100	409.4
2.8155	0.9985	-0.0105	0.99855	0.03865	3.662	2.413	0.04106	410.7
2.7366	0.9985	-0.0079	0.99854	0.03982	3.696	2.428	0.04112	411.8
2.6578	0.9985	-0.0053	0.99853	0.04104	3.721	2.440	0.04115	412.5
2.5789	0.9985	-0.0027	0.99853	0.04230	3.737	2.448	0.04118	413.0
2.5000	0.9985	-0.0000	0.99853	0.04363	3.743	2.451	0.04119	413.2

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 3.1524 ENTRPHY=30.6594
GAMMA (AVG.)=1.3921 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.1524	0.9985	-0.0215	0.99872	0.03351	4.160	2.560	0.03638	439.7
3.0871	0.9985	-0.0193	0.99870	0.03455	4.255	2.601	0.03650	442.5
3.0219	0.9985	-0.0172	0.99868	0.03555	4.337	2.637	0.03659	444.9
2.9567	0.9985	-0.0151	0.99866	0.03653	4.409	2.669	0.03668	447.0
2.8914	0.9986	-0.0130	0.99865	0.03749	4.472	2.696	0.03675	448.7
2.8262	0.9986	-0.0108	0.99864	0.03846	4.525	2.719	0.03681	450.3
2.7609	0.9986	-0.0087	0.99863	0.03944	4.571	2.739	0.03686	451.5
2.6957	0.9986	-0.0066	0.99862	0.04044	4.607	2.755	0.03690	452.5
2.6305	0.9986	-0.0044	0.99861	0.04146	4.634	2.766	0.03693	453.3
2.5652	0.9986	-0.0022	0.99861	0.04253	4.652	2.774	0.03695	453.8
2.5000	0.9986	-0.0000	0.99861	0.04363	4.658	2.776	0.03696	453.9

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 3.0594 ENTRPHY=30.7990
GAMMA (AVG.)=1.3878 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.0594	0.9986	-0.0186	0.99875	0.03480	5.160	2.074	0.03341	485.8
3.0034	0.9986	-0.0167	0.99873	0.03570	5.264	2.915	0.03350	488.5
2.9475	0.9986	-0.0148	0.99872	0.03658	5.355	2.951	0.03358	490.9
2.8916	0.9986	-0.0130	0.99870	0.03744	5.435	2.983	0.03365	492.9
2.8356	0.9986	-0.0112	0.99869	0.03829	5.504	3.011	0.03371	494.7
2.7797	0.9986	-0.0094	0.99869	0.03914	5.564	3.034	0.03375	496.2
2.7237	0.9986	-0.0075	0.99868	0.04000	5.614	3.054	0.03380	497.4
2.6678	0.9987	-0.0057	0.99867	0.04087	5.654	3.069	0.03383	498.4
2.6119	0.9987	-0.0038	0.99867	0.04176	5.683	3.081	0.03385	499.1
2.5559	0.9987	-0.0019	0.99866	0.04268	5.702	3.088	0.03387	499.6
2.5000	0.9987	-0.0000	0.99866	0.04363	5.709	3.091	0.03387	499.7

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 6.2677 ENTROPY=30.6847
GAMMA (AVG.)=1.3914 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.2677	0.9940	-0.0416	0.99489	0.06753	4.344	2.622	0.07173	448.3
6.1409	0.9941	-0.0374	0.99481	0.06955	4.440	2.664	0.07196	451.1
6.0141	0.9942	-0.0333	0.99474	0.07150	4.524	2.700	0.07215	453.4
5.8874	0.9943	-0.0292	0.99468	0.07341	4.598	2.731	0.07231	455.5
5.7606	0.9943	-0.0251	0.99463	0.07530	4.662	2.758	0.07245	457.3
5.6338	0.9944	-0.0210	0.99458	0.07719	4.717	2.782	0.07257	458.8
5.5071	0.9944	-0.0169	0.99455	0.07910	4.763	2.801	0.07267	460.0
5.3803	0.9944	-0.0128	0.99452	0.08105	4.800	2.817	0.07275	461.0
5.2535	0.9945	-0.0086	0.99449	0.08305	4.828	2.828	0.07281	461.8
5.1268	0.9945	-0.0043	0.99448	0.08511	4.845	2.836	0.07284	462.3
5.0000	0.9945	0.0000	0.99447	0.08727	4.852	2.839	0.07286	462.4

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 6.1236 ENTROPY=30.7980
GAMMA (AVG.)=1.3879 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.1236	0.9943	-0.0371	0.99499	0.06954	5.153	2.872	0.06709	485.5
6.0112	0.9944	-0.0334	0.99492	0.07135	5.257	2.913	0.06728	488.2
5.8988	0.9944	-0.0297	0.99486	0.07310	5.348	2.949	0.06744	490.6
5.7865	0.9945	-0.0260	0.99482	0.07483	5.428	2.981	0.06758	492.6
5.6741	0.9945	-0.0224	0.99477	0.07653	5.497	3.009	0.06769	494.4
5.5618	0.9946	-0.0187	0.99474	0.07824	5.557	3.032	0.06779	495.8
5.4494	0.9946	-0.0151	0.99471	0.07996	5.607	3.052	0.06788	497.1
5.3371	0.9946	-0.0114	0.99468	0.08171	5.647	3.067	0.06794	498.1
5.2247	0.9946	-0.0076	0.99467	0.08350	5.676	3.079	0.06799	498.8
5.1123	0.9946	-0.0039	0.99466	0.08535	5.695	3.086	0.06803	499.3
5.0000	0.9947	0.0000	0.99465	0.08727	5.702	3.089	0.06804	499.4

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 6.0135 ENTRØPY=30.9244
GAMMA (AVG.)=1.3836 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
6.0135	0.9945	-0.0337	0.99507	0.07111	6.046	3.111	0.06337	525.8
5.9121	0.9946	-0.0303	0.99501	0.07276	6.158	3.153	0.06353	528.5
5.8106	0.9946	-0.0269	0.99497	0.07436	6.257	3.189	0.06366	530.8
5.7094	0.9946	-0.0236	0.99493	0.07593	6.343	3.221	0.06378	532.9
5.6081	0.9947	-0.0203	0.99489	0.07750	6.419	3.248	0.06388	534.6
5.5067	0.9947	-0.0170	0.99486	0.07906	6.483	3.272	0.06397	536.1
5.4054	0.9947	-0.0136	0.99484	0.08063	6.537	3.292	0.06404	537.3
5.3040	0.9948	-0.0103	0.99482	0.08223	6.580	3.307	0.06410	538.3
5.2027	0.9948	-0.0069	0.99480	0.08386	6.612	3.319	0.06414	539.0
5.1013	0.9948	-0.0035	0.99479	0.08553	6.632	3.326	0.06417	539.5
5.0000	0.9948	0.0000	0.99479	0.08727	6.639	3.329	0.06418	539.6

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 5.9273 ENTRØPY=31.0612
GAMMA (AVG.)=1.3786 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.9273	0.9947	-0.0309	0.99513	0.07236	7.024	3.339	0.06032	569.2
5.8345	0.9947	-0.0278	0.99509	0.07388	7.144	3.380	0.06046	571.9
5.7418	0.9947	-0.0247	0.99505	0.07536	7.251	3.417	0.06058	574.2
5.6491	0.9948	-0.0217	0.99501	0.07682	7.345	3.449	0.06068	576.2
5.5564	0.9948	-0.0186	0.99498	0.07826	7.426	3.476	0.06077	578.0
5.4636	0.9948	-0.0156	0.99496	0.07971	7.496	3.500	0.06084	579.5
5.3709	0.9949	-0.0125	0.99494	0.08116	7.554	3.520	0.06091	580.7
5.2782	0.9949	-0.0094	0.99492	0.08264	7.601	3.535	0.06096	581.7
5.1854	0.9949	-0.0063	0.99491	0.08414	7.635	3.547	0.06099	582.4
5.0927	0.9949	-0.0032	0.99490	0.08568	7.656	3.554	0.06102	582.8
5.0000	0.9949	0.0000	0.99490	0.08727	7.664	3.557	0.06102	583.0

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NB.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 5.8582 ENTRPHY=31.2064
GAMMA (AVG.)=1.3731 STAG. ENTHALPY=3.9849E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8582	0.9948	-0.0287	0.99519	0.07338	8.085	3.554	0.05778	615.5
5.7724	0.9948	-0.0258	0.99515	0.07480	8.215	3.596	0.05790	618.2
5.6865	0.9949	-0.0230	0.99512	0.07618	8.331	3.632	0.05800	620.5
5.6007	0.9949	-0.0201	0.99509	0.07754	8.432	3.664	0.05810	622.6
5.5149	0.9949	-0.0173	0.99506	0.07888	8.520	3.692	0.05818	624.3
5.4291	0.9949	-0.0144	0.99504	0.08023	8.595	3.716	0.05824	625.8
5.3433	0.9950	-0.0116	0.99502	0.08159	8.658	3.736	0.05830	627.1
5.2575	0.9950	-0.0087	0.99501	0.08297	8.708	3.751	0.05834	628.0
5.1716	0.9950	-0.0059	0.99500	0.08436	8.745	3.763	0.05837	628.8
5.0858	0.9950	-0.0030	0.99499	0.08580	8.768	3.770	0.05839	629.2
5.0000	0.9950	0.0000	0.99499	0.08727	8.777	3.773	0.05840	629.4

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NB.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 5.8018 ENTRPHY=31.3578
GAMMA (AVG.)=1.3672 STAG. ENTHALPY=4.6169E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8018	0.9949	-0.0269	0.99524	0.07423	9.231	3.758	0.05583	664.7
5.7216	0.9949	-0.0242	0.99521	0.07555	9.372	3.799	0.05574	667.4
5.6414	0.9949	-0.0215	0.99518	0.07685	9.496	3.836	0.05583	669.7
5.5612	0.9950	-0.0188	0.99515	0.07813	9.605	3.868	0.05591	671.8
5.4811	0.9950	-0.0162	0.99513	0.07940	9.700	3.896	0.05598	673.6
5.4009	0.9950	-0.0135	0.99511	0.08067	9.782	3.920	0.05604	675.1
5.3207	0.9950	-0.0109	0.99509	0.08195	9.849	3.940	0.05609	676.3
5.2405	0.9950	-0.0082	0.99508	0.08324	9.903	3.956	0.05613	677.3
5.1604	0.9951	-0.0055	0.99507	0.08455	9.942	3.967	0.05616	678.0
5.0802	0.9951	-0.0028	0.99506	0.08589	9.967	3.975	0.05618	678.5
5.0000	0.9951	0.0000	0.99506	0.08727	9.976	3.977	0.05619	678.7

CBNE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRBPV=30.3778

FLBW PROPERTIES

SHOCK ANGLE= 5.7549 ENTRBPV=31.5141

GAMMA (AVG.1-1.3611) STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
5.7549	0.9950	-0.0254	0.99528	0.07493	10.462	3.950	0.05378	716.6
5.6794	0.9950	-0.0228	0.99525	0.07619	10.613	3.992	0.05388	719.3
5.6039	0.9950	-0.0203	0.99523	0.07741	10.747	4.029	0.05397	721.7
5.5285	0.9950	-0.0178	0.99520	0.07863	10.864	4.061	0.05404	723.8
5.4530	0.9951	-0.0153	0.99518	0.07983	10.967	4.089	0.05411	725.6
5.3775	0.9951	-0.0128	0.99516	0.08103	11.054	4.113	0.05416	727.2
5.3020	0.9951	-0.0102	0.99515	0.08224	11.127	4.133	0.05421	728.4
5.2265	0.9951	-0.0077	0.99514	0.08346	11.185	4.149	0.05424	729.4
5.1510	0.9951	-0.0052	0.99513	0.08470	11.227	4.160	0.05427	730.2
5.0755	0.9951	-0.0026	0.99513	0.08597	11.254	4.167	0.05429	730.6
5.0000	0.9951	-0.0000	0.99512	0.08727	11.263	4.170	0.05429	730.8

CBNE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37803.3 FT./SEC. ENTRBPV=30.3778

FLBW PROPERTIES

SHOCK ANGLE= 5.6667 ENTRBPV=31.9174

GAMMA (AVG.1-1.3464) STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
5.6667	0.9951	-0.0225	0.99537	0.07628	13.909	4.386	0.05016	858.0
5.6000	0.9951	-0.0202	0.99534	0.07740	14.089	4.428	0.05024	860.8
5.5333	0.9952	-0.0180	0.99532	0.07849	14.249	4.465	0.05031	863.3
5.4667	0.9952	-0.0158	0.99530	0.07957	14.389	4.498	0.05037	865.5
5.4000	0.9952	-0.0135	0.99529	0.08065	14.511	4.526	0.05042	867.4
5.3333	0.9952	-0.0113	0.99527	0.08172	14.616	4.551	0.05047	869.0
5.2667	0.9952	-0.0091	0.99526	0.08280	14.702	4.571	0.05050	870.3
5.2000	0.9952	-0.0068	0.99525	0.08389	14.771	4.586	0.05053	871.4
5.1333	0.9952	-0.0046	0.99525	0.08500	14.821	4.598	0.05055	872.1
5.0667	0.9952	-0.0023	0.99524	0.08612	14.853	4.605	0.05057	872.6
5.0000	0.9952	0.0000	0.99524	0.08727	14.864	4.608	0.05057	872.8

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE= 5.6050 ENTRØPY=32.3284
GAMMA (AVG.)=1.3335 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
5.6050	0.9952	-0.0205	0.99543	0.07724	17.885	4.767	0.04750	1015.1
5.5445	0.9952	-0.0184	0.99561	0.07826	18.098	4.809	0.04757	1018.1
5.4840	0.9953	-0.0164	0.99539	0.07926	18.286	4.847	0.04763	1020.8
5.4235	0.9953	-0.0143	0.99538	0.08025	18.452	4.880	0.04768	1023.1
5.3630	0.9953	-0.0123	0.99536	0.08123	18.596	4.908	0.04773	1025.1
5.3025	0.9953	-0.0103	0.99535	0.08221	18.719	4.933	0.04777	1026.8
5.2420	0.9953	-0.0083	0.99534	0.08320	18.821	4.953	0.04780	1028.2
5.1815	0.9953	-0.0062	0.99533	0.08420	18.902	4.969	0.04782	1029.3
5.1210	0.9953	-0.0042	0.99533	0.08520	18.961	4.980	0.04784	1030.1
5.0605	0.9953	-0.0021	0.99533	0.08622	18.997	4.987	0.04785	1030.6
5.0000	0.9953	-0.0000	0.99532	0.08727	19.011	4.990	0.04785	1030.7

CONE SEMI-ANGLE = 7.5
FREE STREAM CONDITIONS

MACH NO. = 12.00 ALTITUDE = 15500.0 FEET PRESSURE = 2.3030E 00 PSF
DENSITY = 2.7550E -06 SLUGS/CU. FT. TEMPERATURE = 487.00 DEG. R
VELOCITY = 12901.7 FT./SEC. ENTRAPY = 30.3778

FLOW PROPERTIES

SHOCK ANGLE = 9.4158 ENTRAPY = 30.6835
GAMMA (AVG.) = 1.3914 STAG. ENTHALPY = 8.7187E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THERA	P	RHO	MU	T (K)
9.4158	0.9865	-0.0625	0.98850	0.10110	4.335	2.619	0.10837	447.9
9.2242	0.9867	-0.0561	0.98831	0.10416	4.431	2.661	0.10872	450.6
9.0326	0.9869	-0.0499	0.98816	0.10710	4.515	2.697	0.10901	453.0
8.8411	0.9870	-0.0438	0.98802	0.10997	4.589	2.728	0.10927	455.1
8.6495	0.9872	-0.0377	0.98790	0.11283	4.652	2.755	0.10949	456.9
8.4579	0.9873	-0.0315	0.98780	0.11568	4.707	2.779	0.10968	458.4
8.2663	0.9874	-0.0254	0.98772	0.11856	4.753	2.798	0.10983	459.6
8.0747	0.9875	-0.0192	0.98765	0.12150	4.791	2.814	0.10996	460.6
7.8832	0.9875	-0.0129	0.98760	0.12452	4.818	2.825	0.11005	461.4
7.6916	0.9875	-0.0065	0.98756	0.12764	4.836	2.833	0.11011	461.9
7.5000	0.9876	0.0000	0.98755	0.13090	4.842	2.836	0.11013	462.0

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS
MACH NO. = 14.00 ALTITUDE = 15500.0 FEET PRESSURE = 2.3030E 00 PSF
DENSITY = 2.7550E -06 SLUGS/CU. FT. TEMPERATURE = 270.56 DEG. K
VELOCITY = 15145.3 FT./SEC. ENTRAPY = 30.3778

FLOW PROPERTIES

SHOCK ANGLE = 9.1087 ENTRAPY = 30.8579
GAMMA (AVG.) = 1.3854 STAG. ENTHALPY = 1.1762E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THERA	P	RHO	MU	T (K)
9.1087	0.9876	-0.0530	0.98881	0.10339	5.576	2.989	0.10935	504.7
8.9478	0.9875	-0.0476	0.98867	0.10600	5.684	3.031	0.10941	507.4
8.7870	0.9877	-0.0423	0.98856	0.11052	5.779	3.067	0.10964	509.7
8.6261	0.9878	-0.0371	0.98846	0.11300	5.861	3.099	0.10994	511.8
8.4652	0.9879	-0.0319	0.98837	0.11546	5.934	3.126	0.10921	513.5
8.3044	0.9879	-0.0267	0.98830	0.11792	5.996	3.150	0.10936	515.0
8.1435	0.9880	-0.0215	0.98824	0.12041	6.047	3.169	0.10948	516.2
7.9826	0.9881	-0.0162	0.98819	0.12293	6.089	3.185	0.10956	517.2
7.8217	0.9882	-0.0109	0.98815	0.12558	6.128	3.197	0.10968	517.9
7.6608	0.9881	-0.0055	0.98813	0.12815	6.139	3.204	0.10949	518.4
7.5000	0.9881	0.0000	0.98812	0.13090	6.146	3.207	0.10971	518.6

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE= 8.9001 ENTRØPY=31.0580
GAMMA (AVG.)=1.3787 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

SHØCK ANGLE= 8.7508 ENTRØPY=31.2784
GAMMA (AVG.)=1.3703 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.9001	0.9880	-0.0464	0.98905	0.10841	7.006	3.335	0.09105	568.4	8.7508	0.9884	-0.0416	0.98923	0.11062	8.625	3.653	0.08550	638.8
8.7600	0.9881	-0.0417	0.98894	0.11070	7.127	3.376	0.09126	571.1	8.6257	0.9884	-0.0374	0.98915	0.11268	8.760	3.695	0.08568	641.5
8.6200	0.9882	-0.0371	0.98885	0.11293	7.233	3.413	0.09145	573.4	8.5006	0.9885	-0.0333	0.98908	0.11470	8.880	3.732	0.08583	643.8
8.4800	0.9882	-0.0325	0.98878	0.11513	7.327	3.445	0.09161	575.4	8.3755	0.9886	-0.0292	0.98902	0.11668	8.985	3.764	0.08597	645.9
8.3400	0.9883	-0.0279	0.98871	0.11731	7.408	3.473	0.09175	577.2	8.2504	0.9886	-0.0251	0.98896	0.11866	9.076	3.792	0.08608	647.6
8.2000	0.9884	-0.0234	0.98865	0.11949	7.478	3.496	0.09186	578.7	8.1254	0.9887	-0.0209	0.98892	0.12063	9.154	3.816	0.08618	649.1
8.0600	0.9884	-0.0188	0.98860	0.12169	7.536	3.516	0.09196	579.9	8.0003	0.9887	-0.0168	0.98888	0.12262	9.219	3.835	0.08626	650.4
7.9200	0.9885	-0.0142	0.98857	0.12391	7.582	3.532	0.09204	580.9	7.8752	0.9888	-0.0127	0.98885	0.12462	9.271	3.851	0.08633	651.4
7.7800	0.9885	-0.0095	0.98854	0.12618	7.616	3.543	0.09209	581.6	7.7501	0.9888	-0.0085	0.98882	0.12667	9.309	3.863	0.08637	652.1
7.6400	0.9885	-0.0048	0.98852	0.12850	7.638	3.550	0.09213	582.1	7.6251	0.9888	-0.0043	0.98881	0.12875	9.333	3.870	0.08640	652.5
7.5000	0.9885	0.0000	0.98851	0.13090	7.646	3.553	0.09214	582.2	7.5000	0.9888	0.0000	0.98880	0.13090	9.342	3.872	0.08641	652.7

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTR0PY=30.3778

FL0W PR0PERTIES

SH0CK ANGLE= 8.6393 ENTR0PY=31.5106
GAMMA (AVG.)=1.3612 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.6393	0.9887	-0.0381	0.98938	0.11230	10.433	3.946	0.08115	715.4
8.5253	0.9887	-0.0342	0.98932	0.11419	10.584	3.988	0.08130	718.2
8.4114	0.9888	-0.0304	0.98925	0.11604	10.718	4.025	0.08143	720.5
8.2975	0.9888	-0.0267	0.98920	0.11786	10.836	4.057	0.08154	722.6
8.1836	0.9889	-0.0229	0.98916	0.11968	10.938	4.085	0.08164	724.4
8.0696	0.9889	-0.0191	0.98912	0.12149	11.025	4.109	0.08173	726.0
7.9557	0.9890	-0.0154	0.98908	0.12332	11.098	4.129	0.08180	727.2
7.8418	0.9890	-0.0116	0.98906	0.12516	11.155	4.145	0.08185	728.2
7.7278	0.9890	-0.0078	0.98904	0.12703	11.198	4.156	0.08189	729.0
7.6139	0.9890	-0.0039	0.98903	0.12894	11.224	4.163	0.08192	729.4
7.5000	0.9890	0.0000	0.98902	0.13090	11.234	4.166	0.08193	729.6

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTR0PY=30.3778

FL0W PR0PERTIES

SH0CK ANGLE= 8.5531 ENTR0PY=31.7505
GAMMA (AVG.)=1.3522 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.5531	0.9889	-0.0353	0.98951	0.11361	12.432	4.214	0.07764	798.1
8.4478	0.9889	-0.0317	0.98945	0.11536	12.600	4.257	0.07777	800.9
8.3425	0.9890	-0.0282	0.98939	0.11709	12.749	4.294	0.07789	803.3
8.2371	0.9890	-0.0247	0.98935	0.11879	12.879	4.326	0.07799	805.5
8.1318	0.9891	-0.0212	0.98931	0.12048	12.993	4.354	0.07807	807.3
8.0265	0.9891	-0.0177	0.98928	0.12217	13.090	4.379	0.07815	808.9
7.9212	0.9891	-0.0142	0.98925	0.12387	13.171	4.398	0.07821	810.2
7.8159	0.9892	-0.0107	0.98923	0.12558	13.235	4.414	0.07826	811.2
7.7106	0.9892	-0.0072	0.98921	0.12732	13.282	4.426	0.07829	812.0
7.6053	0.9892	-0.0036	0.98920	0.12909	13.311	4.433	0.07831	812.4
7.5000	0.9892	0.0000	0.98920	0.13090	13.322	4.436	0.07832	812.6

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.4845 ENTRØPY=31.9949
GAMMA (AVG.)=1.3437 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4845	0.9891	-0.0331	0.98961	0.11466	14.620	4.462	0.07476	886.5
8.3861	0.9891	-0.0297	0.98955	0.11631	14.806	4.504	0.07487	889.4
8.2876	0.9892	-0.0264	0.98951	0.11793	14.971	4.541	0.07498	891.9
8.1892	0.9892	-0.0232	0.98947	0.11953	15.116	4.574	0.07507	894.1
8.0907	0.9892	-0.0199	0.98943	0.12112	15.243	4.603	0.07515	896.0
7.9923	0.9893	-0.0166	0.98940	0.12271	15.350	4.627	0.07521	897.6
7.8938	0.9893	-0.0133	0.98938	0.12430	15.440	4.647	0.07527	899.0
7.7954	0.9893	-0.0100	0.98936	0.12591	15.510	4.663	0.07531	900.0
7.6969	0.9893	-0.0067	0.98935	0.12755	15.562	4.674	0.07534	900.8
7.5984	0.9893	-0.0034	0.98934	0.12920	15.595	4.681	0.07536	901.3
7.5000	0.9893	0.0000	0.98933	0.13090	15.606	4.684	0.07537	901.4

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.4288 ENTRØPY=32.2442
GAMMA (AVG.)=1.3360 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4288	0.9892	-0.0313	0.98969	0.11553	16.999	4.690	0.07235	980.6
8.3359	0.9892	-0.0281	0.98964	0.11709	17.204	4.733	0.07246	983.5
8.2430	0.9893	-0.0250	0.98960	0.11862	17.386	4.770	0.07255	986.1
8.1501	0.9893	-0.0219	0.98957	0.12014	17.546	4.803	0.07263	988.4
8.0572	0.9894	-0.0188	0.98954	0.12164	17.686	4.832	0.07270	990.4
7.9644	0.9894	-0.0157	0.98951	0.12315	17.805	4.856	0.07276	992.0
7.8715	0.9894	-0.0126	0.98949	0.12466	17.903	4.876	0.07281	993.4
7.7786	0.9894	-0.0095	0.98947	0.12619	17.981	4.892	0.07285	994.5
7.6857	0.9894	-0.0063	0.98946	0.12773	18.038	4.903	0.07288	995.3
7.5929	0.9894	-0.0032	0.98945	0.12930	18.074	4.911	0.07290	995.8
7.5000	0.9894	-0.0000	0.98945	0.13090	18.087	4.913	0.07290	996.0

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH N₀=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTR₀PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.3826 ENTR₀PY=32.4876
GAMMA (AVG.)=1.3291 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3826	0.9893	-0.0297	0.98976	0.11625	19.568	4.902	0.07032	1080.1
8.2944	0.9894	-0.0267	0.98972	0.11774	19.793	4.944	0.07042	1083.2
8.2061	0.9894	-0.0238	0.98968	0.11920	19.994	4.981	0.07050	1085.9
8.1178	0.9894	-0.0208	0.98965	0.12064	20.170	5.014	0.07058	1088.3
8.0296	0.9895	-0.0179	0.98962	0.12208	20.323	5.043	0.07064	1090.3
7.9413	0.9895	-0.0149	0.98960	0.12352	20.454	5.067	0.07070	1092.1
7.8530	0.9895	-0.0120	0.98958	0.12496	20.562	5.088	0.07074	1093.5
7.7648	0.9895	-0.0090	0.98956	0.12642	20.647	5.104	0.07078	1094.6
7.6765	0.9895	-0.0060	0.98955	0.12789	20.710	5.115	0.07081	1095.4
7.5883	0.9895	-0.0030	0.98954	0.12938	20.749	5.122	0.07082	1095.9
7.5000	0.9895	0.0000	0.98954	0.13090	20.763	5.125	0.07083	1096.1

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH N₀=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTR₀PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.3438 ENTR₀PY=32.7329
GAMMA (AVG.)=1.3231 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3438	0.9894	-0.0285	0.98982	0.11686	22.327	5.097	0.06859	1185.2
8.2594	0.9895	-0.0256	0.98978	0.11828	22.574	5.139	0.06868	1188.4
8.1751	0.9895	-0.0228	0.98975	0.11968	22.793	5.177	0.06876	1191.2
8.0907	0.9895	-0.0199	0.98972	0.12107	22.986	5.210	0.06883	1193.7
8.0063	0.9895	-0.0171	0.98969	0.12245	23.154	5.239	0.06889	1195.8
7.9219	0.9896	-0.0143	0.98967	0.12383	23.297	5.263	0.06894	1197.6
7.8375	0.9896	-0.0115	0.98965	0.12521	23.415	5.283	0.06898	1199.1
7.7531	0.9896	-0.0086	0.98964	0.12661	23.509	5.299	0.06901	1200.3
7.6688	0.9896	-0.0058	0.98963	0.12801	23.577	5.311	0.06904	1201.1
7.5844	0.9896	-0.0029	0.98962	0.12944	23.620	5.318	0.06905	1201.6
7.5000	0.9896	-0.0000	0.98962	0.13090	23.635	5.321	0.06906	1201.8

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.2699 ENTROPY=33.3355
GAMMA (AVG.)=1.3116 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2699	0.9896	-0.0260	0.98994	0.11803	30.058	5.524	0.06522	1472.2
8.1929	0.9896	-0.0234	0.98991	0.11933	30.363	5.567	0.06529	1475.7
8.1159	0.9897	-0.0208	0.98988	0.12062	30.634	5.605	0.06536	1478.8
8.0389	0.9897	-0.0182	0.98986	0.12189	30.873	5.638	0.06542	1481.6
7.9619	0.9897	-0.0156	0.98983	0.12316	31.081	5.667	0.06547	1483.9
7.8849	0.9897	-0.0131	0.98982	0.12443	31.257	5.691	0.06552	1485.9
7.8079	0.9897	-0.0105	0.98980	0.12569	31.403	5.712	0.06555	1487.6
7.7310	0.9898	-0.0079	0.98979	0.12697	31.519	5.728	0.06558	1488.9
7.6540	0.9898	-0.0053	0.98978	0.12826	31.603	5.739	0.06560	1489.8
7.5770	0.9898	-0.0026	0.98977	0.12957	31.655	5.746	0.06562	1490.4
7.5000	0.9898	-0.0000	0.98977	0.13090	31.674	5.749	0.06562	1490.6

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE= 8.2179 ENTROPY=33.9168
GAMMA (AVG.)=1.3038 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2179	0.9897	-0.0243	0.99003	0.11886	38.980	5.877	0.06280	1794.4
8.1461	0.9898	-0.0219	0.99000	0.12008	39.350	5.920	0.06287	1798.3
8.0743	0.9898	-0.0194	0.98998	0.12128	39.679	5.958	0.06293	1801.8
8.0025	0.9898	-0.0170	0.98995	0.12248	39.969	5.991	0.06299	1804.9
7.9308	0.9898	-0.0146	0.98993	0.12366	40.220	6.020	0.06303	1807.5
7.8590	0.9898	-0.0122	0.98992	0.12485	40.435	6.045	0.06307	1809.8
7.7872	0.9899	-0.0098	0.98991	0.12604	40.612	6.065	0.06310	1811.6
7.7154	0.9899	-0.0074	0.98989	0.12723	40.752	6.081	0.06313	1813.1
7.6436	0.9899	-0.0049	0.98989	0.12844	40.854	6.093	0.06315	1814.1
7.5718	0.9899	-0.0025	0.98988	0.12966	40.917	6.100	0.06316	1814.8
7.5000	0.9899	-0.0000	0.98988	0.13090	40.939	6.103	0.06316	1815.0

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=12.9804 ENTROPY=30.5850
GAMMA (AVG.)=1.3941 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
12.9804	0.9744	-0.0952	0.97908	0.12911	3.604	2.358	0.15818	413.4
12.6824	0.9749	-0.0856	0.97865	0.13379	3.692	2.400	0.15879	416.3
12.3843	0.9753	-0.0761	0.97828	0.13824	3.770	2.436	0.15931	418.7
12.0863	0.9757	-0.0668	0.97797	0.14259	3.837	2.467	0.15975	420.8
11.7883	0.9760	-0.0575	0.97760	0.14690	3.896	2.494	0.16014	422.7
11.4902	0.9763	-0.0482	0.97726	0.15122	3.946	2.517	0.16046	424.2
11.1922	0.9765	-0.0388	0.97726	0.15559	3.989	2.536	0.16074	425.5
10.8941	0.9767	-0.0294	0.97711	0.16007	4.023	2.552	0.16095	426.5
10.5961	0.9768	-0.0199	0.97699	0.16468	4.049	2.564	0.16112	427.3
10.2980	0.9769	-0.0100	0.97691	0.16949	4.066	2.571	0.16122	427.8
10.0000	0.9769	0.0000	0.97689	0.17453	4.072	2.574	0.16126	428.0

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 10818.1 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=12.2862 ENTROPY=30.7942
GAMMA (AVG.)=1.3880 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
12.2862	0.9771	-0.0743	0.97991	0.13853	5.126	2.864	0.13640	484.3
12.0576	0.9774	-0.0668	0.97965	0.14221	5.229	2.905	0.13681	487.0
11.8290	0.9776	-0.0594	0.97942	0.14577	5.320	2.942	0.13716	489.3
11.6004	0.9778	-0.0521	0.97922	0.14926	5.399	2.973	0.13746	491.3
11.3717	0.9780	-0.0448	0.97905	0.15272	5.469	3.001	0.13772	493.1
11.1431	0.9782	-0.0375	0.97891	0.15619	5.528	3.024	0.13795	494.6
10.9145	0.9783	-0.0302	0.97878	0.15968	5.578	3.044	0.13813	495.8
10.6859	0.9784	-0.0228	0.97869	0.16324	5.618	3.059	0.13828	496.8
10.4572	0.9785	-0.0153	0.97861	0.16688	5.647	3.071	0.13839	497.6
10.2286	0.9785	-0.0077	0.97857	0.17064	5.666	3.078	0.13845	498.0
10.0000	0.9786	0.0000	0.97855	0.17453	5.673	3.081	0.13848	498.2

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NB=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRBPY=30.3778

FLW PRPERTIES

SHOCK ANGLE=11.8842 ENTRBPY=31.0555
GAMMA (AVG.)=1.3788 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
11.8842	0.9786	-0.0619	0.98051	0.14430	6.982	3.329	0.12248	567.3
11.6958	0.9788	-0.0556	0.98033	0.14737	7.102	3.371	0.12278	570.0
11.5074	0.9789	-0.0494	0.98017	0.15037	7.209	3.408	0.12304	572.4
11.3190	0.9791	-0.0433	0.98003	0.15332	7.302	3.439	0.12326	574.4
11.1305	0.9792	-0.0372	0.97991	0.15625	7.383	3.467	0.12346	576.1
10.9421	0.9793	-0.0311	0.97981	0.15918	7.453	3.491	0.12362	577.6
10.7537	0.9794	-0.0250	0.97972	0.16214	7.511	3.511	0.12376	578.8
10.5653	0.9795	-0.0189	0.97966	0.16513	7.557	3.526	0.12387	579.8
10.3768	0.9795	-0.0127	0.97961	0.16818	7.591	3.538	0.12395	580.5
10.1884	0.9796	-0.0064	0.97957	0.17131	7.613	3.545	0.12400	581.0
10.0000	0.9796	0.0000	0.97956	0.17453	7.620	3.548	0.12401	581.2

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NB=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRBPY=30.3778

FLW PRPERTIES

SHOCK ANGLE=11.6277 ENTRBPY=31.3503
GAMMA (AVG.)=1.3675 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
11.6277	0.9795	-0.0538	0.98095	0.14809	9.173	3.748	0.11286	662.2
11.4649	0.9796	-0.0484	0.98081	0.15078	9.313	3.790	0.11309	664.9
11.3022	0.9797	-0.0430	0.98069	0.15340	9.437	3.826	0.11330	667.2
11.1394	0.9799	-0.0377	0.98058	0.15600	9.545	3.859	0.11347	669.3
10.9766	0.9800	-0.0324	0.98049	0.15857	9.640	3.887	0.11363	671.1
10.8138	0.9800	-0.0270	0.98041	0.16115	9.721	3.910	0.11376	672.6
10.6511	0.9801	-0.0217	0.98035	0.16374	9.788	3.930	0.11386	673.8
10.4883	0.9802	-0.0164	0.98030	0.16636	9.842	3.946	0.11395	674.8
10.3255	0.9802	-0.0110	0.98026	0.16902	9.881	3.957	0.11401	675.6
10.1628	0.9802	-0.0055	0.98023	0.17174	9.906	3.965	0.11405	676.0
10.0000	0.9802	0.0000	0.98023	0.17453	9.915	3.967	0.11406	676.2

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTROPY=30.3778

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=11.4514 ENTROPY=31.6645
GAMMA (AVG.)=1.3554 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=11.3233 ENTROPY=31.9887
GAMMA (AVG.)=1.3439 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.4514	0.9801	-0.0482	0.98127	0.15075	11.699	4.121	0.10582	768.0
11.3063	0.9802	-0.0433	0.98116	0.15317	11.861	4.163	0.10601	770.8
11.1611	0.9803	-0.0385	0.98106	0.15553	12.004	4.200	0.10618	773.2
11.0160	0.9804	-0.0337	0.98098	0.15787	12.130	4.233	0.10632	775.3
10.8708	0.9805	-0.0290	0.98090	0.16019	12.240	4.261	0.10645	777.2
10.7257	0.9805	-0.0242	0.98084	0.16252	12.334	4.285	0.10655	778.7
10.5806	0.9806	-0.0194	0.98079	0.16485	12.411	4.305	0.10664	780.0
10.4354	0.9806	-0.0146	0.98075	0.16721	12.473	4.321	0.10671	781.0
10.2903	0.9807	-0.0098	0.98072	0.16960	12.518	4.332	0.10676	781.8
10.1451	0.9807	-0.0049	0.98070	0.17204	12.547	4.340	0.10680	782.2
10.0000	0.9807	0.0000	0.98069	0.17453	12.557	4.342	0.10681	782.4

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.3233	0.9805	-0.0441	0.98152	0.15272	14.562	4.456	0.10045	884.2
11.1909	0.9806	-0.0396	0.98143	0.15493	14.748	4.498	0.10061	887.1
11.0586	0.9807	-0.0352	0.98135	0.15711	14.913	4.535	0.10075	889.6
10.9263	0.9808	-0.0309	0.98127	0.15925	15.057	4.568	0.10088	891.8
10.7940	0.9809	-0.0265	0.98121	0.16139	15.183	4.597	0.10099	893.7
10.6616	0.9809	-0.0221	0.98116	0.16353	15.291	4.621	0.10108	895.3
10.5293	0.9810	-0.0178	0.98111	0.16567	15.380	4.641	0.10115	896.7
10.3970	0.9810	-0.0134	0.98108	0.16783	15.450	4.657	0.10121	897.7
10.2646	0.9810	-0.0090	0.98105	0.17002	15.502	4.668	0.10126	898.5
10.1323	0.9810	-0.0045	0.98104	0.17225	15.534	4.675	0.10128	898.9
10.0000	0.9810	0.0000	0.98103	0.17453	15.546	4.678	0.10129	899.1

CONE SEMI-ANGLE=10.0
 FREE STREAM CONDITIONS
 MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 23799.8 FT./SEC. ENTROPY=30.3778

CONE SEMI-ANGLE=10.0
 FREE STREAM CONDITIONS
 MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLØW PROPERTIES

FLØW PROPERTIES

SHØCK ANGLE=11.1501 ENTROPY=32.6437
 GAMMA (AVG.)=1.3252 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

SHØCK ANGLE=11.2261 ENTROPY=32.3164
 GAMMA (AVG.)=1.3338 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)	ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.2261	0.9809	-0.0409	0.98172	0.15423	17.762	4.756	0.09623	1010.4	11.1501	0.9811	-0.0385	0.98188	0.15542	21.299	5.027	0.09286	1146.3
11.1035	0.9809	-0.0368	0.98164	0.15629	17.974	4.799	0.09638	1013.4	11.0351	0.9812	-0.0346	0.98180	0.15736	21.538	5.070	0.09298	1149.4
10.9809	0.9810	-0.0327	0.98157	0.15831	18.161	4.836	0.09650	1016.0	10.9201	0.9813	-0.0308	0.98174	0.15926	21.750	5.107	0.09310	1152.2
10.8583	0.9811	-0.0287	0.98150	0.16031	18.326	4.869	0.09661	1018.3	10.8051	0.9813	-0.0269	0.98169	0.16115	21.937	5.140	0.09320	1154.6
10.7357	0.9811	-0.0246	0.98145	0.16231	18.470	4.898	0.09671	1020.3	10.6900	0.9814	-0.0231	0.98164	0.16303	22.099	5.169	0.09328	1156.7
10.6130	0.9812	-0.0205	0.98140	0.16430	18.592	4.922	0.09679	1022.0	10.5750	0.9814	-0.0193	0.98160	0.16490	22.238	5.194	0.09335	1158.5
10.4904	0.9812	-0.0165	0.98137	0.16630	18.693	4.942	0.09685	1023.4	10.4600	0.9814	-0.0155	0.98156	0.16679	22.352	5.214	0.09341	1159.9
10.3678	0.9813	-0.0124	0.98134	0.16831	18.774	4.958	0.09691	1024.5	10.3450	0.9815	-0.0117	0.98154	0.16868	22.443	5.230	0.09346	1161.1
10.2452	0.9813	-0.0083	0.98131	0.17035	18.832	4.970	0.09694	1025.3	10.2300	0.9815	-0.0078	0.98152	0.17060	22.509	5.241	0.09349	1161.9
10.1226	0.9813	-0.0042	0.98130	0.17242	18.869	4.977	0.09697	1025.8	10.1150	0.9815	-0.0039	0.98151	0.17255	22.550	5.249	0.09351	1162.4
10.0000	0.9813	0.0000	0.98129	0.17453	18.882	4.980	0.09698	1025.9	10.0000	0.9815	0.0000	0.98150	0.17453	22.565	5.251	0.09352	1162.6

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=11.0892 ENTROPY=32.9678
GAMMA (AVG.)=1.3181 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.0892	0.9813	-0.0365	0.98201	0.15638	25.172	5.271	0.09010	1292.0
10.9803	0.9814	-0.0328	0.98194	0.15822	25.441	5.314	0.09022	1295.3
10.8714	0.9815	-0.0292	0.98188	0.16003	25.680	5.352	0.09032	1298.2
10.7624	0.9815	-0.0255	0.98183	0.16182	25.890	5.385	0.09041	1300.7
10.6535	0.9815	-0.0219	0.98179	0.16361	26.072	5.414	0.09049	1303.0
10.5446	0.9816	-0.0183	0.98175	0.16539	26.228	5.438	0.09055	1304.8
10.4357	0.9816	-0.0147	0.98172	0.16718	26.356	5.459	0.09061	1306.4
10.3268	0.9816	-0.0110	0.98170	0.16898	26.458	5.475	0.09065	1307.6
10.2178	0.9817	-0.0074	0.98168	0.17081	26.532	5.486	0.09068	1308.5
10.1089	0.9817	-0.0037	0.98167	0.17265	26.578	5.493	0.09070	1309.0
10.0000	0.9817	-0.0000	0.98167	0.17453	26.595	5.496	0.09071	1309.2

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=11.0395 ENTROPY=33.2871
GAMMA (AVG.)=1.3123 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.0395	0.9815	-0.0349	0.98211	0.15717	29.383	5.492	0.08782	1447.5
10.9356	0.9816	-0.0314	0.98205	0.15893	29.603	5.535	0.08793	1451.0
10.8316	0.9816	-0.0279	0.98200	0.16066	29.950	5.573	0.08803	1454.1
10.7277	0.9817	-0.0244	0.98196	0.16238	30.185	5.606	0.08811	1456.8
10.6237	0.9817	-0.0209	0.98192	0.16409	30.389	5.635	0.08818	1459.1
10.5198	0.9817	-0.0175	0.98188	0.16579	30.562	5.659	0.08824	1461.1
10.4158	0.9818	-0.0140	0.98186	0.16751	30.706	5.680	0.08829	1462.7
10.3119	0.9818	-0.0105	0.98183	0.16923	30.820	5.696	0.08833	1464.0
10.2079	0.9818	-0.0071	0.98182	0.17097	30.902	5.707	0.08836	1464.9
10.1039	0.9818	-0.0035	0.98181	0.17274	30.954	5.715	0.08838	1465.5
10.0000	0.9818	0.0000	0.98180	0.17453	30.972	5.717	0.08838	1465.7

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRPHY=30.3778

FLW PROPERTIES

SHOCK ANGLE=10.9984 ENTRPHY=33.6004
GAMMA (AVG.)=1.3077 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9984	0.9816	-0.0335	0.98220	0.15782	33.931	5.692	0.08592	1612.9
10.8986	0.9817	-0.0301	0.98215	0.15952	34.264	5.734	0.08602	1616.7
10.7987	0.9817	-0.0268	0.98210	0.16118	34.561	5.772	0.08611	1619.9
10.6989	0.9818	-0.0235	0.98206	0.16284	34.822	5.806	0.08618	1622.8
10.5990	0.9818	-0.0201	0.98202	0.16448	35.048	5.834	0.08625	1625.3
10.4992	0.9818	-0.0168	0.98199	0.16613	35.242	5.859	0.08631	1627.4
10.3993	0.9819	-0.0135	0.98197	0.16778	35.401	5.879	0.08635	1629.1
10.2995	0.9819	-0.0101	0.98195	0.16944	35.527	5.895	0.08639	1630.5
10.1997	0.9819	-0.0068	0.98193	0.17111	35.619	5.907	0.08642	1631.5
10.0998	0.9819	-0.0034	0.98192	0.17281	35.676	5.914	0.08644	1632.1
10.0000	0.9819	0.0000	0.98192	0.17453	35.697	5.917	0.08644	1632.3

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLW PROPERTIES

SHOCK ANGLE=10.9640 ENTRPHY=33.9070
GAMMA (AVG.)=1.3039 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9640	0.9817	-0.0324	0.98228	0.15838	8.815	5.872	0.08431	1788.5
10.8676	0.9818	-0.0291	0.98223	0.16001	9.184	5.915	0.08440	1792.5
10.7712	0.9818	-0.0259	0.98218	0.16162	9.512	5.952	0.08449	1796.0
10.6748	0.9819	-0.0227	0.98215	0.16322	9.801	5.986	0.08456	1799.0
10.5784	0.9819	-0.0195	0.98211	0.16482	10.052	6.015	0.08462	1801.6
10.4820	0.9819	-0.0162	0.98208	0.16641	10.266	6.039	0.08468	1803.9
10.3856	0.9820	-0.0130	0.98206	0.16800	10.442	6.060	0.08472	1805.7
10.2892	0.9820	-0.0098	0.98204	0.16961	10.582	6.076	0.08476	1807.2
10.1928	0.9820	-0.0066	0.98203	0.17123	10.683	6.087	0.08478	1808.2
10.0964	0.9820	-0.0033	0.98202	0.17287	10.746	6.095	0.08480	1808.9
10.0000	0.9820	0.0000	0.98201	0.17453	10.769	6.097	0.08480	1809.1

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=10.8988 ENTRPHY=34.6415
GAMMA (AVG.)=1.2973 STAG. ENTHALPHY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.8988	0.9820	-0.0303	0.98243	0.15942	52.501	6.250	0.08123	2272.6
10.8089	0.9820	-0.0272	0.98238	0.16095	52.968	6.293	0.08131	2277.2
10.7191	0.9820	-0.0242	0.98234	0.16246	53.382	6.331	0.08139	2281.2
10.6292	0.9821	-0.0212	0.98231	0.16399	53.748	6.365	0.08146	2284.8
10.5393	0.9821	-0.0182	0.98228	0.16545	54.065	6.394	0.08151	2287.9
10.4494	0.9821	-0.0152	0.98225	0.16694	54.336	6.418	0.08156	2290.5
10.3595	0.9822	-0.0124	0.98223	0.16843	54.559	6.439	0.08160	2292.7
10.2696	0.9822	-0.0091	0.98222	0.16993	54.735	6.455	0.08163	2294.4
10.1798	0.9822	-0.0061	0.98220	0.17145	54.863	6.466	0.08165	2295.6
10.0899	0.9822	-0.0031	0.98220	0.17298	54.942	6.473	0.08167	2296.3
10.0000	0.9822	0.0000	0.98219	0.17453	54.971	6.476	0.08167	2296.6

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=10.7806 ENTRPHY=35.4354
GAMMA (AVG.)=1.1306 STAG. ENTHALPHY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.7806	0.9824	-0.0264	0.98271	0.16126	68.300	7.078	0.07108	2565.0
10.7026	0.9824	-0.0238	0.98267	0.16262	68.834	7.127	0.07111	2567.0
10.6245	0.9824	-0.0211	0.98264	0.16395	69.308	7.170	0.07114	2568.8
10.5464	0.9824	-0.0185	0.98261	0.16527	69.724	7.207	0.07117	2570.6
10.4684	0.9825	-0.0158	0.98259	0.16659	70.085	7.240	0.07119	2572.0
10.3903	0.9825	-0.0132	0.98257	0.16790	70.392	7.268	0.07121	2573.0
10.3122	0.9825	-0.0106	0.98256	0.16921	70.644	7.291	0.07123	2573.9
10.2342	0.9825	-0.0080	0.98254	0.17052	70.843	7.308	0.07124	2574.6
10.1561	0.9825	-0.0053	0.98253	0.17184	70.987	7.322	0.07125	2575.3
10.0781	0.9825	-0.0027	0.98253	0.17318	71.076	7.330	0.07125	2575.6
10.0000	0.9825	0.0000	0.98253	0.17453	71.108	7.332	0.07125	2576.0

CONF SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

CONF SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.6056 ENTROPY=30.5421
GAMMA (AVG.)=1.3882 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

FLOW PROPERTIES

SHOCK ANGLE=15.3957 ENTROPY=30.7913
GAMMA (AVG.)=1.3881 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.6054	0.9583	-0.1285	0.96605	0.15654	3.266	2.224	0.21009	397.2	15.3957	0.9641	-0.0929	0.96857	0.17265	5.105	2.858	0.17266	483.3
16.1949	0.9591	-0.1154	0.96606	0.16287	3.351	2.266	0.21103	400.1	15.1062	0.9645	-0.0835	0.96815	0.17729	5.209	2.899	0.17320	486.0
15.7843	0.9599	-0.1027	0.96519	0.16890	3.425	2.302	0.21181	402.6	14.8166	0.9649	-0.0743	0.96779	0.18178	5.299	2.936	0.17368	488.4
15.3730	0.9606	-0.0901	0.96481	0.17476	3.490	2.333	0.21252	404.7	14.5270	0.9653	-0.0651	0.96748	0.18619	5.378	2.967	0.17408	490.4
14.9632	0.9612	-0.0776	0.96432	0.18057	3.546	2.359	0.21311	406.6	14.2374	0.9656	-0.0560	0.96721	0.19057	5.447	2.995	0.17444	492.2
14.5527	0.9617	-0.0651	0.96369	0.18640	3.594	2.383	0.21361	408.1	13.9479	0.9658	-0.0469	0.96698	0.19495	5.507	3.018	0.17473	493.7
14.1422	0.9621	-0.0525	0.96353	0.19232	3.635	2.402	0.21403	409.5	13.6583	0.9661	-0.0377	0.96679	0.19937	5.556	3.038	0.17498	494.9
13.7316	0.9624	-0.0397	0.96324	0.19819	3.648	2.413	0.21437	410.5	13.3687	0.9662	-0.0285	0.96663	0.20387	5.596	3.053	0.17518	495.9
13.3211	0.9627	-0.0268	0.96302	0.20467	3.693	2.430	0.21462	411.3	13.0791	0.9663	-0.0191	0.96657	0.20848	5.626	3.065	0.17533	496.6
12.9105	0.9628	-0.0136	0.96289	0.21124	3.710	2.437	0.21479	411.8	12.7896	0.9664	-0.0097	0.96645	0.21323	5.645	3.072	0.17542	497.1
12.5000	0.9628	0.0000	0.96283	0.21817	3.716	2.440	0.21485	412.0	12.5000	0.9664	0.0000	0.96642	0.21817	5.652	3.075	0.17545	497.3

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=14.7894 ENTRØPY=31.1220
GAMMA (AVG.)=1.3763 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.7894	0.9669	-0.0744	0.96972	0.18134	7.464	3.432	0.15142	588.5
14.5605	0.9671	-0.0669	0.96945	0.18508	7.589	3.473	0.15179	591.2
14.3315	0.9674	-0.0595	0.96922	0.18873	7.699	3.510	0.15211	593.5
14.1026	0.9676	-0.0521	0.96901	0.19233	7.796	3.542	0.15239	595.5
13.8737	0.9678	-0.0448	0.96884	0.19590	7.880	3.569	0.15264	597.3
13.6447	0.9680	-0.0374	0.96869	0.19948	7.952	3.593	0.15284	598.8
13.4158	0.9681	-0.0301	0.96856	0.20308	8.012	3.613	0.15301	600.0
13.1868	0.9682	-0.0227	0.96846	0.20672	8.060	3.629	0.15315	601.0
12.9579	0.9683	-0.0152	0.96839	0.21044	8.096	3.640	0.15324	601.7
12.7289	0.9683	-0.0077	0.96834	0.21424	8.118	3.647	0.15331	602.2
12.5000	0.9683	0.0000	0.96833	0.21817	8.126	3.650	0.15333	602.3

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=14.4364 ENTRØPY=31.4994
GAMMA (AVG.)=1.3617 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.4364	0.9684	-0.0634	0.97049	0.18659	10.344	3.932	0.13782	711.7
14.2427	0.9686	-0.0570	0.97030	0.18980	10.494	3.974	0.13810	714.4
14.0491	0.9688	-0.0507	0.97013	0.19293	10.627	4.011	0.13834	716.8
13.8554	0.9690	-0.0444	0.96998	0.19603	10.744	4.044	0.13855	718.9
13.6618	0.9691	-0.0381	0.96985	0.19911	10.845	4.072	0.13873	720.7
13.4682	0.9692	-0.0319	0.96974	0.20219	10.932	4.096	0.13889	722.2
13.2745	0.9693	-0.0256	0.96965	0.20529	11.004	4.115	0.13902	723.5
13.0809	0.9694	-0.0193	0.96957	0.20842	11.062	4.131	0.13912	724.5
12.8873	0.9694	-0.0129	0.96952	0.21160	11.104	4.143	0.13919	725.2
12.6936	0.9695	-0.0065	0.96949	0.21484	11.130	4.150	0.13924	725.6
12.5000	0.9695	0.0000	0.96947	0.21817	11.140	4.153	0.13925	725.8

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=14.2077 ENTRPHY=31.8994
GAMMA (AVG.)=1.3470 STAG. ENTHALPY=1.1762E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.2077	0.9694	-0.0562	0.97104	0.19007	13.745	4.368	0.12838	851.4
14.0370	0.9696	-0.0505	0.97088	0.19202	13.924	4.410	0.12860	854.3
13.8662	0.9697	-0.0449	0.97075	0.19572	14.083	4.447	0.12880	856.7
13.6954	0.9698	-0.0393	0.97063	0.19848	14.222	4.480	0.12897	858.9
13.5246	0.9699	-0.0338	0.97053	0.20123	14.344	4.508	0.12911	860.8
13.3539	0.9700	-0.0282	0.97044	0.20398	14.447	4.532	0.12924	862.4
13.1831	0.9701	-0.0227	0.97037	0.20674	14.533	4.552	0.12934	863.7
13.0123	0.9702	-0.0171	0.97031	0.20953	14.601	4.568	0.12942	864.8
12.8415	0.9702	-0.0114	0.97027	0.21235	14.651	4.580	0.12948	865.5
12.6708	0.9702	-0.0057	0.97024	0.21523	14.682	4.587	0.12952	866.0
12.5000	0.9702	0.0000	0.97023	0.21817	14.694	4.590	0.12953	866.2

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=14.0482 ENTRPHY=32.3074
GAMMA (AVG.)=1.3340 STAG. ENTHALPY=1.5272E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.0482	0.9701	-0.0511	0.97143	0.19254	17.670	4.749	0.12147	1006.8
13.8934	0.9702	-0.0460	0.97131	0.19514	17.881	4.751	0.12166	1009.8
13.7385	0.9703	-0.0409	0.97119	0.19769	18.068	4.828	0.12183	1012.4
13.5837	0.9704	-0.0358	0.97110	0.20022	18.232	4.861	0.12197	1014.7
13.4289	0.9705	-0.0307	0.97101	0.20273	18.375	4.890	0.12209	1016.7
13.2741	0.9706	-0.0257	0.97094	0.20525	18.497	4.914	0.12220	1018.4
13.1193	0.9707	-0.0206	0.97088	0.20777	18.598	4.934	0.12229	1019.8
12.9644	0.9707	-0.0155	0.97083	0.21031	18.678	4.950	0.12235	1020.9
12.8096	0.9707	-0.0104	0.97080	0.21288	18.737	4.962	0.12240	1021.7
12.6548	0.9708	-0.0052	0.97078	0.21550	18.773	4.969	0.12243	1022.2
12.5000	0.9708	0.0000	0.97077	0.21817	18.786	4.972	0.12245	1022.3

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.9309 ENTROPY=32.7150
GAMMA (AVG.)=1.3235 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.9309	0.9706	-0.0474	0.97174	0.19438	22.119	5.083	0.11624	1177.4
13.7878	0.9707	-0.0426	0.97163	0.19679	22.364	5.125	0.11640	1180.5
13.6447	0.9708	-0.0379	0.97153	0.19916	22.582	5.163	0.11655	1183.3
13.5016	0.9709	-0.0332	0.97145	0.20151	22.774	5.196	0.11667	1185.8
13.3585	0.9710	-0.0285	0.97137	0.20385	22.940	5.225	0.11678	1187.9
13.2154	0.9710	-0.0238	0.97131	0.20618	23.082	5.249	0.11687	1189.7
13.0724	0.9711	-0.0191	0.97126	0.20853	23.200	5.270	0.11695	1191.2
12.9293	0.9711	-0.0143	0.97122	0.21089	23.293	5.285	0.11701	1192.3
12.7862	0.9711	-0.0096	0.97119	0.21327	23.361	5.297	0.11705	1193.2
12.6431	0.9712	-0.0048	0.97117	0.21570	23.403	5.304	0.11708	1193.7
12.5000	0.9712	0.0000	0.97116	0.21817	23.418	5.307	0.11709	1193.9

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.8416 ENTROPY=33.1171
GAMMA (AVG.)=1.3153 STAG. ENTHALPY=2.3609E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.8416	0.9710	-0.0445	0.97198	0.19579	27.091	5.377	0.11217	1363.1
13.7074	0.9711	-0.0400	0.97188	0.19805	27.374	5.420	0.11231	1366.5
13.5732	0.9711	-0.0356	0.97180	0.20029	27.625	5.457	0.11244	1369.5
13.4391	0.9712	-0.0311	0.97172	0.20250	27.846	5.491	0.11255	1372.1
13.3049	0.9713	-0.0267	0.97166	0.20470	28.039	5.520	0.11265	1374.4
13.1708	0.9713	-0.0223	0.97160	0.20690	28.202	5.544	0.11273	1376.3
13.0366	0.9714	-0.0179	0.97156	0.20911	28.338	5.564	0.11280	1377.9
12.9025	0.9714	-0.0135	0.97152	0.21133	28.445	5.580	0.11285	1379.2
12.7683	0.9715	-0.0090	0.97149	0.21357	28.523	5.592	0.11289	1380.1
12.6341	0.9715	-0.0045	0.97148	0.21585	28.572	5.599	0.11292	1380.6
12.5000	0.9715	0.0000	0.97147	0.21817	28.589	5.602	0.11292	1380.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.7716 ENTROPY=33.5108
GAMMA (AVG.)=1.3089 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7716	0.9713	-0.0422	0.97217	0.19690	32.586	5.636	0.10893	1564.2
13.6445	0.9713	-0.0380	0.97208	0.19905	32.910	5.679	0.10906	1567.9
13.5173	0.9714	-0.0338	0.97200	0.20118	33.197	5.717	0.10918	1571.1
13.3902	0.9715	-0.0296	0.97194	0.20328	33.451	5.750	0.10928	1573.9
13.2630	0.9715	-0.0254	0.97188	0.20537	33.671	5.779	0.10937	1576.4
13.1358	0.9716	-0.0212	0.97183	0.20747	33.858	5.804	0.10945	1578.4
13.0087	0.9716	-0.0170	0.97179	0.20956	34.013	5.824	0.10951	1580.1
12.8815	0.9717	-0.0128	0.97175	0.21168	34.135	5.840	0.10956	1581.5
12.7543	0.9717	-0.0085	0.97173	0.21381	34.225	5.852	0.10959	1582.5
12.6272	0.9717	-0.0043	0.97172	0.21597	34.280	5.859	0.10962	1583.1
12.5000	0.9717	0.0000	0.97171	0.21817	34.300	5.861	0.10962	1583.3

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.7159 ENTROPY=33.8943
GAMMA (AVG.)=1.3040 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7159	0.9715	-0.0404	0.97232	0.19779	38.605	5.865	0.10632	1781.0
13.5943	0.9716	-0.0364	0.97224	0.19985	38.972	5.907	0.10644	1784.9
13.4727	0.9716	-0.0323	0.97217	0.20189	39.299	5.945	0.10655	1788.4
13.3511	0.9717	-0.0283	0.97211	0.20391	39.587	5.979	0.10665	1791.5
13.2295	0.9718	-0.0243	0.97206	0.20591	39.837	6.008	0.10673	1794.1
13.1079	0.9718	-0.0203	0.97201	0.20792	40.049	6.032	0.10680	1796.3
12.9863	0.9718	-0.0163	0.97197	0.20993	40.225	6.052	0.10686	1798.2
12.8647	0.9719	-0.0122	0.97194	0.21195	40.364	6.069	0.10690	1799.6
12.7432	0.9719	-0.0082	0.97192	0.21400	40.465	6.080	0.10693	1800.6
12.6216	0.9719	-0.0041	0.97191	0.21607	40.528	6.087	0.10695	1801.3
12.5000	0.9719	0.0000	0.97190	0.21817	40.551	6.090	0.10696	1801.5

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.6706 ENTRØPY=34.2667
GAMMA (AVG.)=1.3003 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6706	0.9717	-0.0390	0.97245	0.19852	45.148	6.066	0.10418	2013.7
13.5535	0.9717	-0.0350	0.97238	0.20051	45.562	6.109	0.10430	2017.9
13.4365	0.9718	-0.0311	0.97231	0.20247	45.930	6.147	0.10440	2021.7
13.3194	0.9719	-0.0273	0.97225	0.20441	46.255	6.180	0.10449	2025.0
13.2023	0.9719	-0.0234	0.97220	0.20635	46.537	6.209	0.10457	2027.8
13.0853	0.9720	-0.0195	0.97216	0.20829	46.777	6.234	0.10463	2030.2
12.9682	0.9720	-0.0157	0.97213	0.21023	46.975	6.254	0.10469	2032.2
12.8512	0.9720	-0.0118	0.97210	0.21218	47.132	6.270	0.10473	2033.8
12.7341	0.9720	-0.0079	0.97208	0.21415	47.246	6.282	0.10476	2034.9
12.6170	0.9721	-0.0040	0.97206	0.21614	47.316	6.289	0.10478	2035.6
12.5000	0.9721	0.0000	0.97206	0.21817	47.341	6.292	0.10479	2035.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.6333 ENTRØPY=34.6276
GAMMA (AVG.)=1.2974 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.6333	0.9718	-0.0378	0.97256	0.19912	52.214	6.244	0.10241	2262.5
13.5200	0.9719	-0.0340	0.97245	0.20105	52.678	6.287	0.10252	2267.1
13.4067	0.9720	-0.0302	0.97242	0.20295	53.091	6.325	0.10262	2271.1
13.2933	0.9720	-0.0264	0.97237	0.20483	53.455	6.358	0.10270	2274.7
13.1800	0.9721	-0.0227	0.97232	0.20671	53.771	6.387	0.10278	2277.8
13.0667	0.9721	-0.0189	0.97228	0.20859	54.040	6.412	0.10284	2280.4
12.9533	0.9721	-0.0152	0.97225	0.21047	54.262	6.432	0.10289	2282.5
12.8400	0.9722	-0.0114	0.97222	0.21237	54.438	6.448	0.10293	2284.2
12.7267	0.9722	-0.0076	0.97221	0.21427	54.566	6.460	0.10296	2285.4
12.6133	0.9722	-0.0038	0.97219	0.21621	54.644	6.467	0.10298	2286.2
12.5000	0.9722	0.0000	0.97219	0.21817	54.673	6.469	0.10298	2286.5

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.5613 ENTRPHY=35.0429
GAMMA (AVG.)=1.1480 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
13.5613	0.9721	-0.0355	0.97277	0.20018	59.788	6.603	0.09355	2437.8
13.4552	0.9722	-0.0319	0.97270	0.20201	60.294	6.650	0.09360	2440.7
13.3491	0.9722	-0.0284	0.97265	0.20382	60.743	6.693	0.09364	2443.0
13.2429	0.9723	-0.0248	0.97260	0.20562	61.137	6.729	0.09368	2445.2
13.1368	0.9723	-0.0213	0.97256	0.20739	61.478	6.780	0.09371	2447.2
13.0307	0.9724	-0.0178	0.97252	0.20917	61.768	6.788	0.09374	2448.6
12.9245	0.9724	-0.0142	0.97249	0.21094	62.008	6.810	0.09376	2449.9
12.8184	0.9724	-0.0107	0.97247	0.21272	62.196	6.828	0.09378	2450.9
12.7123	0.9724	-0.0072	0.97245	0.21452	62.332	6.841	0.09380	2451.5
12.6061	0.9724	-0.0036	0.97244	0.21633	62.417	6.848	0.09380	2452.0
12.5000	0.9724	0.0000	0.97244	0.21817	62.447	6.851	0.09381	2452.1

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.3853 ENTRPHY=35.9786
GAMMA (AVG.)=1.1217 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
13.3853	0.9728	-0.0297	0.97329	0.20308	81.113	7.791	0.08489	2721.4
13.2968	0.9729	-0.0267	0.97324	0.20462	81.681	7.839	0.08493	2723.3
13.2083	0.9729	-0.0237	0.97321	0.20614	82.186	7.881	0.08496	2725.4
13.1197	0.9729	-0.0208	0.97317	0.20764	82.630	7.919	0.08499	2726.7
13.0312	0.9730	-0.0178	0.97314	0.20913	83.015	7.952	0.08502	2727.8
12.9427	0.9730	-0.0149	0.97312	0.21063	83.341	7.979	0.08505	2729.0
12.8541	0.9730	-0.0119	0.97310	0.21212	83.610	8.000	0.08507	2730.2
12.7656	0.9730	-0.0089	0.97308	0.21361	83.822	8.018	0.08508	2731.1
12.6771	0.9731	-0.0060	0.97307	0.21512	83.975	8.031	0.08509	2731.4
12.5885	0.9731	-0.0030	0.97306	0.21663	84.069	8.039	0.08510	2731.7
12.5000	0.9731	0.0000	0.97306	0.21817	84.103	8.042	0.08510	2731.6

CRNE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7590E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=13.2588 ENTRBPY=30.9153
GAMMA (AVG.)=1.1301 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
13.2588	0.9733	-0.0255	0.97368	0.20520	105.720	8.989	0.07918	2977.7
13.1829	0.9734	-0.0229	0.97365	0.20652	106.349	9.036	0.07922	2979.4
13.1071	0.9734	-0.0204	0.97362	0.20782	106.909	9.077	0.07925	2981.2
13.0312	0.9734	-0.0178	0.97359	0.20911	107.402	9.113	0.07928	2982.7
12.9553	0.9734	-0.0153	0.97357	0.21040	107.830	9.145	0.07931	2983.8
12.8794	0.9735	-0.0128	0.97355	0.21168	108.193	9.172	0.07933	2985.0
12.8035	0.9735	-0.0102	0.97354	0.21296	108.491	9.194	0.07935	2985.8
12.7276	0.9735	-0.0077	0.97352	0.21425	108.726	9.211	0.07936	2986.5
12.6518	0.9735	-0.0051	0.97352	0.21555	108.896	9.224	0.07938	2986.9
12.5759	0.9735	-0.0026	0.97351	0.21685	109.000	9.231	0.07938	2987.4
12.5000	0.9735	-0.0000	0.97351	0.21817	109.038	9.235	0.07938	2987.2

CBME SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.= 0.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7530E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 0.4900 E FT./SEC. ENTHALPY=30.3778

FLM PROPERTIES

SHEAR ANGLE=18.9955 ENTHALPY=30.6770

GAMMA TAVG.=1.3792 SHOCK ANGLE=17.0044 SYNG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
10.9955	0.9455	-0.1250	0.95375	0.20007	4.209	2.603	0.22557	445.7
10.5960	0.9463	-0.1124	0.95299	0.20636	4.384	2.645	0.22644	448.5
10.1964	0.9471	-0.1000	0.95234	0.21242	4.467	2.681	0.22720	450.8
17.7409	0.9477	-0.0877	0.95177	0.21836	4.540	2.712	0.22785	452.9
17.3473	0.9483	-0.0754	0.95128	0.22425	4.604	2.739	0.22841	454.7
16.9477	0.9488	-0.0632	0.95086	0.23016	4.658	2.763	0.22888	456.2
16.5482	0.9491	-0.0509	0.95051	0.23614	4.704	2.782	0.22928	457.5
16.1486	0.9494	-0.0385	0.95023	0.24224	4.741	2.798	0.22960	458.5
15.7491	0.9497	-0.0259	0.95001	0.24851	4.769	2.810	0.22983	459.2
15.3495	0.9498	-0.0131	0.94988	0.25501	4.786	2.817	0.22998	459.7
14.9500	0.9498	0.0000	0.94983	0.26180	4.793	2.820	0.23004	459.9

CBME SEMI-ANGLE=15.0

FREE STREAM CONDITIONS
MACH NR.= 0.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7530E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8634.5 FT./SEC. ENTHALPY=30.3778

FLM PROPERTIES

SHEAR ANGLE=17.0044 ENTHALPY=31.0459

GAMMA TAVG.=1.3792 SHOCK ANGLE=17.0044 SYNG. ENTHALPY=4.0379E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
17.9044	0.9516	-0.0928	0.95407	0.21532	6.913	3.314	0.18859	544.3
17.6199	0.9520	-0.0834	0.95565	0.22004	7.033	3.356	0.18910	547.0
17.3235	0.9524	-0.0742	0.95528	0.22464	7.139	3.392	0.18955	549.3
17.0291	0.9527	-0.0650	0.95496	0.22917	7.232	3.424	0.18993	551.4
16.7426	0.9530	-0.0559	0.95468	0.23367	7.312	3.452	0.19027	553.1
16.4522	0.9533	-0.0467	0.95444	0.23817	7.381	3.476	0.19058	554.8
16.1617	0.9535	-0.0376	0.95425	0.24271	7.439	3.495	0.19079	555.8
15.8713	0.9537	-0.0283	0.95409	0.24732	7.485	3.511	0.19098	556.8
15.5809	0.9538	-0.0190	0.95398	0.25201	7.518	3.525	0.19111	557.5
15.2904	0.9539	-0.0096	0.95390	0.25683	7.541	3.538	0.19120	558.0
15.0000	0.9539	0.0000	0.95387	0.26180	7.549	3.533	0.19123	558.1

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=17.3559 ENTROPY=31.4918
GAMMA (AVG.)=1.3620 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=17.0318 ENTROPY=31.9710
GAMMA (AVG.)=1.3445 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.3559	0.9545	-0.0760	0.95749	0.22342	10.283	3.923	0.16760	709.1	17.0318	0.9561	-0.0660	0.95841	0.22836	14.399	4.439	0.15412	877.7
17.1203	0.9548	-0.0684	0.95720	0.22731	10.432	3.965	0.16796	711.8	16.8286	0.9564	-0.0593	0.95820	0.23174	14.583	4.481	0.15439	880.5
16.8847	0.9550	-0.0608	0.95695	0.23113	10.565	4.002	0.16827	714.2	16.6254	0.9566	-0.0528	0.95801	0.23507	14.747	4.518	0.15463	883.1
16.6491	0.9553	-0.0533	0.95673	0.23489	10.681	4.034	0.16854	716.3	16.4222	0.9567	-0.0462	0.95784	0.23836	14.890	4.551	0.15484	885.3
16.4135	0.9555	-0.0457	0.95654	0.23863	10.783	4.062	0.16877	718.1	16.2191	0.9569	-0.0397	0.95770	0.24164	15.015	4.579	0.15502	887.1
16.1779	0.9556	-0.0382	0.95638	0.24237	10.869	4.086	0.16897	719.6	16.0159	0.9570	-0.0331	0.95758	0.24491	15.122	4.603	0.15517	888.8
15.9423	0.9558	-0.0307	0.95625	0.24614	10.941	4.106	0.16913	720.9	15.8127	0.9571	-0.0266	0.95748	0.24820	15.210	4.623	0.15530	890.1
15.7067	0.9559	-0.0231	0.95615	0.24994	10.998	4.122	0.16926	721.9	15.6095	0.9572	-0.0200	0.95740	0.25152	15.281	4.639	0.15540	891.1
15.4712	0.9559	-0.0155	0.95607	0.25381	11.040	4.134	0.16936	722.6	15.4064	0.9572	-0.0134	0.95734	0.25488	15.332	4.651	0.15547	891.9
15.2356	0.9560	-0.0078	0.95602	0.25775	11.067	4.141	0.16942	723.1	15.2032	0.9573	-0.0067	0.95730	0.25830	15.364	4.658	0.15552	892.4
15.0000	0.9560	0.0000	0.95600	0.26180	11.076	4.143	0.16944	723.2	15.0000	0.9573	0.0000	0.95729	0.26180	15.376	4.661	0.15553	892.6

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=16.8189 ENTRØPY=32.4594
GAMMA (AVG.)=1.3298 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

E/A	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.0189	0.9572	-0.0593	0.95906	0.23166	19.264	4.878	0.14478	1068.5
16.6370	0.9574	-0.0533	0.95888	0.23471	19.487	4.920	0.14501	1071.5
16.4551	0.9576	-0.0474	0.95873	0.23771	19.685	4.958	0.14520	1074.2
16.2732	0.9577	-0.0415	0.95859	0.24069	19.859	4.991	0.14537	1076.6
16.0913	0.9578	-0.0356	0.95846	0.24364	20.011	5.020	0.1455	1078.6
15.9094	0.9579	-0.0298	0.95838	0.24660	20.140	5.044	0.14565	1080.3
15.7275	0.9580	-0.0239	0.95830	0.24957	20.247	5.064	0.14575	1081.7
15.5456	0.9581	-0.0180	0.95823	0.25256	20.332	5.080	0.14583	1082.9
15.3638	0.9581	-0.0120	0.95819	0.25559	20.394	5.092	0.14589	1083.7
15.1819	0.9581	-0.0060	0.95816	0.25866	20.432	5.099	0.14593	1084.2
15.0000	0.9581	0.0000	0.95815	0.26180	20.446	5.101	0.14594	1084.4

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=16.6691 ENTRØPY=32.9442
GAMMA (AVG.)=1.3186 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

E/A	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.6691	0.9580	-0.0546	0.95953	0.23401	24.877	5.254	0.13800	1280.9
16.5022	0.9581	-0.0491	0.95938	0.23682	25.143	5.297	0.13819	1284.2
16.3353	0.9583	-0.0436	0.95925	0.23959	25.380	5.335	0.13836	1287.1
16.1684	0.9584	-0.0382	0.95914	0.24234	25.588	5.368	0.13851	1289.7
16.0015	0.9585	-0.0328	0.95904	0.24507	25.769	5.397	0.13864	1291.9
15.8346	0.9586	-0.0274	0.95895	0.24780	25.923	5.421	0.13875	1293.8
15.6677	0.9586	-0.0220	0.95888	0.25054	26.051	5.441	0.13884	1295.3
15.5007	0.9587	-0.0165	0.95883	0.25330	26.152	5.457	0.13891	1296.5
15.3338	0.9587	-0.0111	0.95879	0.25609	26.225	5.469	0.13896	1297.4
15.1669	0.9587	-0.0056	0.95876	0.25892	26.271	5.476	0.13899	1297.9
15.0000	0.9588	0.0000	0.95875	0.26180	26.287	5.479	0.13900	1298.1

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=18.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.5590 ENTRPHY=33.4186
GAMMA (AVG.)=1.3102 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5590	0.9585	-0.0511	0.95989	0.23575	31.239	5.578	0.13291	1515.3
16.4031	0.9587	-0.0460	0.95976	0.23839	31.553	5.621	0.13308	1518.9
16.2472	0.9588	-0.0409	0.95964	0.24099	31.831	5.658	0.13323	1522.0
16.0913	0.9589	-0.0358	0.95954	0.24350	32.077	5.692	0.13336	1524.8
15.9354	0.9590	-0.0307	0.95945	0.24613	32.290	5.721	0.13348	1527.2
15.7795	0.9590	-0.0256	0.95938	0.24869	32.472	5.745	0.13357	1529.2
15.6236	0.9591	-0.0206	0.95932	0.25126	32.622	5.765	0.13365	1530.9
15.4677	0.9591	-0.0155	0.95927	0.25385	32.741	5.781	0.13372	1532.2
15.3118	0.9592	-0.0103	0.95924	0.25640	32.827	5.793	0.13376	1533.2
15.1559	0.9592	-0.0052	0.95921	0.25911	32.881	5.800	0.13379	1533.8
15.0000	0.9592	0.0000	0.95921	0.26180	32.900	5.803	0.13380	1534.0

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.4794 ENTRPHY=33.8789
GAMMA (AVG.)=1.3042 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4794	0.9589	-0.0484	0.96016	0.23709	38.350	5.856	0.12899	1771.9
16.3279	0.9591	-0.0436	0.96005	0.23959	38.715	5.899	0.12915	1775.8
16.1803	0.9592	-0.0387	0.95994	0.24205	39.040	5.937	0.12928	1779.2
16.0326	0.9593	-0.0339	0.95985	0.24450	39.326	5.970	0.12940	1782.3
15.8852	0.9593	-0.0291	0.95977	0.24693	39.575	5.999	0.12951	1784.9
15.7377	0.9594	-0.0243	0.95971	0.24937	39.787	6.023	0.12959	1787.1
15.5901	0.9595	-0.0195	0.95965	0.25181	39.962	6.044	0.12967	1789.0
15.4426	0.9595	-0.0146	0.95961	0.25426	40.100	6.060	0.12972	1790.4
15.2951	0.9595	-0.0098	0.95958	0.25674	40.200	6.071	0.12976	1791.4
15.1475	0.9595	-0.0049	0.95956	0.25925	40.283	6.079	0.12979	1792.1
15.0000	0.9596	0.0000	0.95955	0.26180	40.285	6.081	0.12980	1792.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTROPY=30.3778

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.4103 ENTROPY=34.3235
GAMMA (AVG.)=1.2998 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=16.3587 ENTROPY=34.7514
GAMMA (AVG.)=1.2966 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4103	0.9593	-0.0464	0.96038	0.23813	46.209	6.095	0.12591	2051.2	16.3587	0.9595	-0.0447	0.96056	0.23896	54.817	6.301	0.12344	2353.7
16.2693	0.9594	-0.0417	0.96027	0.24052	46.631	6.138	0.12605	2055.5	16.2229	0.9596	-0.0402	0.96046	0.24127	55.300	6.344	0.12358	2358.4
16.1283	0.9595	-0.0371	0.96018	0.24289	47.006	6.176	0.12618	2059.3	16.0870	0.9597	-0.0357	0.96037	0.24355	55.729	6.382	0.12370	2362.6
15.9872	0.9595	-0.0324	0.96010	0.24523	47.336	6.209	0.12629	2062.6	15.9511	0.9598	-0.0313	0.96029	0.24581	56.108	6.415	0.12380	2366.2
15.8462	0.9596	-0.0278	0.96003	0.24756	47.624	6.238	0.12639	2065.5	15.8152	0.9599	-0.0268	0.96023	0.24807	56.436	6.444	0.12389	2369.4
15.7052	0.9597	-0.0232	0.95996	0.24990	47.868	6.263	0.12647	2067.9	15.6794	0.9599	-0.0224	0.96017	0.25032	56.716	6.469	0.12397	2372.1
15.5641	0.9597	-0.0186	0.95991	0.25223	48.070	6.283	0.12653	2069.9	15.5435	0.9600	-0.0180	0.96012	0.25257	56.947	6.489	0.12403	2374.3
15.4231	0.9598	-0.0140	0.95987	0.25459	48.229	6.299	0.12659	2071.5	15.4076	0.9600	-0.0135	0.96009	0.25484	57.129	6.505	0.12408	2376.0
15.2821	0.9598	-0.0094	0.95985	0.25696	48.345	6.311	0.12663	2072.7	15.2717	0.9600	-0.0090	0.96006	0.25713	57.262	6.517	0.12412	2377.3
15.1410	0.9598	-0.0047	0.95983	0.25936	48.417	6.318	0.12665	2073.4	15.1359	0.9600	-0.0045	0.96004	0.25945	57.344	6.524	0.12414	2378.0
15.0000	0.9598	0.0000	0.95982	0.26180	48.443	6.321	0.12666	2073.6	15.0000	0.9600	0.0000	0.96004	0.26180	57.373	6.527	0.12415	2378.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 29127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.2362 ENTRØPY=35.2491
GAMMA (AVG.)=1.1364 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.1304 ENTRØPY=35.6957
GAMMA (AVG.)=1.1250 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)	ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.2362	0.9601	-0.0409	0.96099	0.24082	64.167	6.840	0.11070	2509.5	16.1304	0.9606	-0.0374	0.96136	0.24257	74.302	7.420	0.10558	2640.6
16.1126	0.9602	-0.0367	0.96090	0.24296	64.689	6.888	0.11075	2511.5	16.0174	0.9607	-0.0337	0.96129	0.24453	74.852	7.468	0.10563	2642.6
15.9889	0.9603	-0.0326	0.96083	0.24508	65.152	6.931	0.11080	2513.5	15.9043	0.9608	-0.0299	0.96123	0.24646	75.341	7.511	0.10568	2644.2
15.8653	0.9603	-0.0286	0.96076	0.24716	65.559	6.968	0.11085	2515.3	15.7913	0.9608	-0.0262	0.96117	0.24838	75.771	7.548	0.10572	2646.2
15.7417	0.9604	-0.0245	0.96071	0.24924	65.912	7.002	0.11089	2516.6	15.6782	0.9609	-0.0224	0.96113	0.25029	76.143	7.581	0.10576	2647.4
15.6181	0.9604	-0.0204	0.96066	0.25131	66.211	7.029	0.11092	2517.9	15.5652	0.9609	-0.0187	0.96109	0.25218	76.459	7.608	0.10580	2648.5
15.4945	0.9605	-0.0164	0.96062	0.25338	66.458	7.051	0.11095	2519.0	15.4522	0.9609	-0.0150	0.96105	0.25408	76.719	7.631	0.10582	2649.4
15.3708	0.9605	-0.0123	0.96059	0.25546	66.652	7.069	0.11098	2519.7	15.3391	0.9610	-0.0113	0.96103	0.25599	76.924	7.648	0.10583	2650.3
15.2472	0.9605	-0.0082	0.96057	0.25755	66.793	7.082	0.11099	2520.4	15.2261	0.9610	-0.0075	0.96101	0.25791	77.072	7.661	0.10585	2650.8
15.1236	0.9605	-0.0041	0.96055	0.25966	66.879	7.090	0.11100	2520.7	15.1130	0.9610	-0.0038	0.96100	0.25984	77.164	7.669	0.10586	2651.1
15.0000	0.9605	0.0000	0.96055	0.26180	66.911	7.093	0.11100	2520.7	15.0000	0.9610	0.0000	0.96099	0.26180	77.197	7.672	0.10586	2651.1

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=15.8751 ENTROPY=37.2654
GAMMA (AVG.)=1.1396 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.8751	0.9619	-0.0291	0.96230	0.24684	115.681	9.405	0.09407	3074.1
15.7876	0.9619	-0.0262	0.96226	0.24836	116.335	9.451	0.09411	3076.1
15.7001	0.9619	-0.0232	0.96222	0.24986	116.917	9.493	0.09415	3077.3
15.6126	0.9620	-0.0203	0.96219	0.25135	117.430	9.528	0.09419	3079.0
15.5251	0.9620	-0.0174	0.96216	0.25283	117.876	9.560	0.09422	3080.3
15.4376	0.9620	-0.0145	0.96213	0.25431	118.253	9.586	0.09425	3081.4
15.3500	0.9620	-0.0117	0.96211	0.25580	118.564	9.608	0.09427	3082.2
15.2625	0.9621	-0.0088	0.96210	0.25728	118.808	9.625	0.09428	3083.0
15.1750	0.9621	-0.0058	0.96209	0.25878	119.985	9.638	0.09430	3083.3
15.0875	0.9621	-0.0029	0.96208	0.26028	119.094	9.645	0.09430	3083.7
15.0000	0.9621	0.0000	0.96208	0.26180	119.132	9.648	0.09431	3083.6

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=16.0407 ENTROPY=36.1422
GAMMA (AVG.)=1.1212 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.0407	0.9611	-0.0345	0.96168	0.24406	85.186	8.005	0.10136	2767.3
15.9366	0.9611	-0.0310	0.96162	0.24587	85.765	8.052	0.10141	2769.5
15.8325	0.9612	-0.0276	0.96157	0.24765	86.279	8.094	0.10145	2771.2
15.7285	0.9612	-0.0241	0.96153	0.24942	86.731	8.132	0.10149	2772.3
15.6244	0.9613	-0.0207	0.96149	0.25117	87.123	8.164	0.10152	2773.6
15.5203	0.9613	-0.0173	0.96145	0.25293	87.456	8.191	0.10155	2774.8
15.4163	0.9613	-0.0138	0.96142	0.25468	87.730	8.214	0.10158	2775.7
15.3122	0.9613	-0.0104	0.96140	0.25644	87.945	8.231	0.10160	2776.5
15.2081	0.9614	-0.0069	0.96139	0.25821	88.101	8.244	0.10161	2777.0
15.1041	0.9614	-0.0035	0.96138	0.26000	88.197	8.251	0.10162	2777.6
15.0000	0.9614	-0.0000	0.96137	0.26180	88.231	8.255	0.10162	2777.5

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=15.7781 SHOCK ENTROPY=38.4126
GAMMA (AVG.)=1.1848 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.7781	0.9623	-0.0259	0.96267	0.24849	150.852	10.505	0.09064	3434.1
15.7003	0.9624	-0.0233	0.96264	0.24983	151.605	10.548	0.09068	3436.3
15.6225	0.9624	-0.0207	0.96261	0.25116	152.276	10.587	0.09072	3438.4
15.5447	0.9624	-0.0181	0.96258	0.25249	152.868	10.624	0.09076	3439.7
15.4669	0.9624	-0.0155	0.96256	0.25381	153.382	10.654	0.09079	3441.1
15.3891	0.9625	-0.0130	0.96254	0.25513	153.818	10.679	0.09082	3442.5
15.3112	0.9625	-0.0104	0.96252	0.25645	154.178	10.700	0.09084	3443.5
15.2334	0.9625	-0.0078	0.96251	0.25778	154.460	10.717	0.09085	3444.3
15.1556	0.9625	-0.0052	0.96250	0.25911	154.664	10.729	0.09087	3444.7
15.0778	0.9625	-0.0026	0.96250	0.26045	154.789	10.735	0.09088	3445.5
15.0000	0.9625	-0.0000	0.96249	0.26180	154.834	10.738	0.09088	3445.6

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 5409.0 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=22.4274 ENTR0PY=30.6490

GAMMA (AVG.)=1.3924 SHAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
0.4274	0.9243	-0.1506	0.93652	0.22993	4.083	2.533	0.27386	436.1
1.0347	0.9255	-0.1354	0.93540	0.23759	4.177	2.575	0.27507	438.9
1.5420	0.9266	-0.1204	0.93443	0.24498	4.258	2.611	0.27611	441.3
2.0492	0.9276	-0.1057	0.93359	0.25222	4.329	2.642	0.27701	443.4
2.5565	0.9284	-0.0909	0.93287	0.25940	4.391	2.669	0.27778	445.1
3.0637	0.9291	-0.0762	0.93225	0.26661	4.445	2.692	0.27844	446.7
3.5710	0.9297	-0.0614	0.93174	0.27392	4.490	2.712	0.27899	447.9
4.0782	0.9302	-0.0464	0.93132	0.28139	4.526	2.728	0.27944	448.9
4.5855	0.9305	-0.0312	0.93101	0.28909	4.553	2.739	0.27976	449.7
5.0927	0.9307	-0.0158	0.93081	0.29707	4.570	2.747	0.27997	450.2
5.5999	0.9307	0.0000	0.93073	0.30543	4.577	2.750	0.28005	450.4

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.4700 ENTR0PY=30.6497

GAMMA (AVG.)=1.3864 SHAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.4700	0.9305	-0.1234	0.93071	0.24282	5.474	2.962	0.24266	500.2
21.0011	0.9313	-0.1111	0.93795	0.24916	5.583	3.004	0.24351	502.9
20.6032	0.9321	-0.0988	0.93729	0.25533	5.676	3.040	0.24423	505.2
20.2053	0.9327	-0.0867	0.93671	0.26139	5.758	3.071	0.24487	507.2
19.8074	0.9332	-0.0745	0.93622	0.26742	5.830	3.099	0.24541	509.0
19.4095	0.9337	-0.0624	0.93579	0.27345	5.891	3.122	0.24587	510.3
19.0116	0.9341	-0.0502	0.93544	0.27955	5.942	3.142	0.24626	511.7
18.6137	0.9344	-0.0379	0.93516	0.28575	5.983	3.158	0.24656	512.7
18.2158	0.9346	-0.0254	0.93495	0.29210	6.014	3.169	0.24679	513.4
17.8179	0.9347	-0.0128	0.93481	0.29865	6.033	3.177	0.24683	513.9
17.4200	0.9348	0.0000	0.93476	0.30543	6.041	3.179	0.24689	514.0

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=20.4725 ENTRØPY=31.3298
GAMMA (AVG.)=1.3683 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
20.4725	0.9368	-0.0940	0.94153	0.25732	9.015	3.721	0.20580	655.5
20.1752	0.9373	-0.0845	0.94109	0.26219	9.154	3.763	0.20630	658.2
19.8780	0.9377	-0.0752	0.94070	0.26696	9.276	3.800	0.20674	660.5
19.5807	0.9381	-0.0658	0.94037	0.27167	9.384	3.832	0.20712	662.6
19.2835	0.9384	-0.0566	0.94007	0.27635	9.478	3.860	0.20745	664.4
18.9862	0.9386	-0.0473	0.93982	0.28103	9.558	3.884	0.20773	665.9
18.6890	0.9389	-0.0380	0.93962	0.28575	9.625	3.903	0.20796	667.1
18.3917	0.9390	-0.0286	0.93945	0.29052	9.678	3.919	0.20815	668.1
18.0945	0.9391	-0.0192	0.93933	0.29537	9.717	3.931	0.20828	668.8
17.7972	0.9392	-0.0097	0.93926	0.30033	9.741	3.938	0.20836	669.3
17.5000	0.9392	0.0000	0.93923	0.30543	9.750	3.941	0.20840	669.4

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS
MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=19.9606 ENTRØPY=31.8790
GAMMA (AVG.)=1.3477 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.9606	0.9399	-0.0785	0.94319	0.26503	13.562	4.347	0.18482	844.0
19.7145	0.9402	-0.0706	0.94288	0.26912	13.740	4.390	0.18518	846.9
19.4685	0.9405	-0.0628	0.94261	0.27314	13.897	4.427	0.18549	849.3
19.2224	0.9408	-0.0550	0.94238	0.27711	14.035	4.459	0.18577	851.5
18.9764	0.9410	-0.0472	0.94217	0.28106	14.155	4.488	0.18600	853.4
18.7303	0.9412	-0.0395	0.94199	0.28501	14.258	4.512	0.18620	855.0
18.4842	0.9413	-0.0317	0.94185	0.28898	14.343	4.532	0.18636	856.3
18.2382	0.9414	-0.0238	0.94174	0.29299	14.411	4.548	0.18649	857.3
17.9921	0.9415	-0.0160	0.94165	0.29706	14.460	4.559	0.18659	858.1
17.7460	0.9416	-0.0080	0.94160	0.30120	14.491	4.567	0.18665	858.6
17.5000	0.9416	0.0000	0.94158	0.30543	14.502	4.569	0.18667	858.7

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=19.6537 ENTRPHY=32.4459
GAMMA (AVG.)=1.3302 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.6537	0.9417	-0.0691	0.94427	0.26977	19.119	4.867	0.17137	1062.9
19.4383	0.9420	-0.0622	0.94403	0.27338	19.341	4.909	0.17165	1065.9
19.2229	0.9422	-0.0553	0.94382	0.27693	19.538	4.947	0.17190	1068.6
19.0076	0.9424	-0.0484	0.94363	0.28045	19.712	4.980	0.17211	1071.0
18.7922	0.9426	-0.0415	0.94347	0.28394	19.862	5.008	0.17230	1073.0
18.5768	0.9427	-0.0347	0.94334	0.28744	19.991	5.033	0.17245	1074.7
18.3615	0.9428	-0.0278	0.94322	0.29096	20.097	5.053	0.17258	1076.1
18.1461	0.9429	-0.0209	0.94314	0.29450	20.182	5.069	0.17268	1077.3
17.9307	0.9430	-0.0140	0.94307	0.29808	20.243	5.080	0.17276	1078.1
17.7153	0.9430	-0.0070	0.94303	0.30172	20.282	5.088	0.17281	1078.6
17.5000	0.9430	0.0000	0.94301	0.30543	20.296	5.090	0.17282	1078.8

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15149.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=19.4507 ENTRPHY=33.0085
GAMMA (AVG.)=1.3173 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.4507	0.9429	-0.0628	0.94502	0.27295	25.687	5.301	0.16213	1311.1
19.2356	0.9431	-0.0565	0.94482	0.27624	25.959	5.343	0.16236	1314.4
19.0205	0.9433	-0.0502	0.94464	0.27948	26.201	5.381	0.16257	1317.4
18.8055	0.9435	-0.0440	0.94449	0.28268	26.414	5.414	0.16275	1319.9
18.5904	0.9436	-0.0377	0.94435	0.28588	26.599	5.443	0.16290	1322.2
18.3753	0.9437	-0.0315	0.94424	0.28907	26.757	5.468	0.16304	1324.1
18.1603	0.9438	-0.0253	0.94415	0.29227	26.888	5.488	0.16314	1325.6
17.9452	0.9439	-0.0190	0.94408	0.29550	26.991	5.504	0.16323	1326.8
17.7301	0.9439	-0.0127	0.94402	0.29876	27.066	5.515	0.16329	1327.7
17.5151	0.9440	-0.0064	0.94399	0.30207	27.113	5.523	0.16333	1328.3
17.3000	0.9440	0.0000	0.94397	0.30543	27.130	5.525	0.16334	1328.5

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRPHY=30.3778

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=19.3080 ENTRPHY=33.5564

GAMMA (AVG.)=1.3083 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=19.2035 ENTRPHY=34.0845

GAMMA (AVG.)=1.3020 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)	ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
19.3080	0.9438	-0.0584	0.94556	0.27522	33.265	5.664	0.15548	1588.9	19.2035	0.9444	-0.0551	0.94596	0.27689	41.855	5.970	0.15054	1896.9
19.1272	0.9439	-0.0525	0.94538	0.27827	33.594	5.707	0.15569	1592.6	19.0331	0.9445	-0.0496	0.94581	0.27977	42.245	6.013	0.15073	1901.0
18.9464	0.9441	-0.0467	0.94523	0.28128	33.886	5.745	0.15587	1595.8	18.8628	0.9446	-0.0441	0.94567	0.28262	42.593	6.051	0.15089	1904.6
18.7656	0.9442	-0.0409	0.94510	0.28427	34.143	5.778	0.15603	1598.7	18.6924	0.9448	-0.0386	0.94555	0.28544	42.899	6.084	0.15103	1907.8
18.5849	0.9443	-0.0351	0.94498	0.28725	34.367	5.807	0.15616	1601.1	18.5221	0.9449	-0.0331	0.94545	0.28826	43.165	6.113	0.15115	1910.5
18.4040	0.9444	-0.0293	0.94489	0.29022	34.557	5.832	0.15628	1603.2	18.3517	0.9450	-0.0276	0.94536	0.29107	43.391	6.137	0.15126	1912.8
18.2232	0.9445	-0.0235	0.94481	0.29320	34.714	5.852	0.15637	1604.9	18.1814	0.9450	-0.0222	0.94529	0.29389	43.578	6.158	0.15134	1914.7
18.0424	0.9446	-0.0177	0.94474	0.29621	34.839	5.868	0.15645	1606.3	18.0110	0.9451	-0.0167	0.94523	0.29673	43.726	6.174	0.15141	1916.2
17.8616	0.9446	-0.0118	0.94470	0.29924	34.929	5.880	0.15650	1607.2	17.8407	0.9451	-0.0111	0.94519	0.29959	43.833	6.185	0.15146	1917.3
17.6808	0.9446	-0.0059	0.94467	0.30231	34.985	5.887	0.15653	1607.9	17.6703	0.9452	-0.0056	0.94517	0.30249	43.900	6.193	0.15149	1918.0
17.5000	0.9447	0.0000	0.94466	0.30543	35.006	5.890	0.15655	1608.1	17.5000	0.9452	-0.0000	0.94516	0.30543	43.924	6.195	0.15150	1918.2

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=19.1246 ENTRBPY=34.5906
GAMMA (AVG.)=1.2977 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.1246	0.9448	-0.0526	0.94627	0.27815	51.455	6.226	0.14677	2235.9
18.9622	0.9449	-0.0473	0.94613	0.28091	51.914	6.269	0.14694	2240.4
18.7997	0.9451	-0.0421	0.94601	0.28363	52.322	6.307	0.14709	2244.4
18.6372	0.9452	-0.0368	0.94590	0.28633	52.682	6.341	0.14722	2248.0
18.4748	0.9453	-0.0316	0.94581	0.28902	52.994	6.370	0.14734	2251.0
18.3123	0.9454	-0.0264	0.94573	0.29171	53.260	6.394	0.14743	2253.6
18.1498	0.9454	-0.0211	0.94566	0.29441	53.480	6.414	0.14751	2255.7
17.9874	0.9455	-0.0159	0.94561	0.29712	53.653	6.430	0.14757	2257.4
17.8249	0.9455	-0.0106	0.94557	0.29986	53.779	6.442	0.14762	2258.6
17.6625	0.9455	-0.0053	0.94555	0.30262	53.857	6.449	0.14765	2259.4
17.5000	0.9455	-0.0000	0.94554	0.30543	53.886	6.452	0.14766	2259.7

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.9866 ENTRBPY=35.1508
GAMMA (AVG.)=1.1410 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.9866	0.9456	-0.0484	0.94683	0.28023	62.052	6.721	0.13212	2477.9
18.8379	0.9457	-0.0435	0.94671	0.28280	62.567	6.768	0.13219	2480.3
18.6892	0.9458	-0.0387	0.94661	0.28533	63.023	6.812	0.13226	2482.1
18.5406	0.9459	-0.0338	0.94651	0.28784	63.425	6.848	0.13231	2484.3
18.3919	0.9460	-0.0290	0.94643	0.29034	63.772	6.881	0.13236	2485.8
18.2433	0.9461	-0.0242	0.94637	0.29282	64.067	6.909	0.13240	2486.9
18.0946	0.9461	-0.0194	0.94631	0.29531	64.311	6.931	0.13245	2488.1
17.9460	0.9462	-0.0146	0.94627	0.29780	64.502	6.949	0.13246	2489.0
17.7973	0.9462	-0.0097	0.94624	0.30032	64.641	6.962	0.13248	2489.5
17.6486	0.9462	-0.0049	0.94622	0.30286	64.727	6.970	0.13250	2490.1
17.5000	0.9462	-0.0000	0.94621	0.30543	64.758	6.973	0.13251	2489.9

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.8396 ENTROPY=35.6703
GAMMA (AVG.)=1.1252 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.8396	0.9464	-0.0437	0.94743	0.28265	73.704	7.386	0.12489	2633.6
18.7057	0.9465	-0.0393	0.94734	0.28497	74.253	7.433	0.12495	2635.8
18.5717	0.9466	-0.0349	0.94725	0.28726	74.740	7.477	0.12502	2637.4
18.4377	0.9467	-0.0306	0.94718	0.28953	75.168	7.514	0.12507	2639.2
18.3038	0.9467	-0.0262	0.94711	0.29179	75.540	7.546	0.12511	2640.6
18.1698	0.9468	-0.0219	0.94705	0.29404	75.855	7.574	0.12515	2641.7
18.0358	0.9468	-0.0175	0.94701	0.29629	76.114	7.596	0.12518	2642.8
17.9019	0.9469	-0.0132	0.94697	0.29855	76.318	7.614	0.12520	2643.3
17.7679	0.9469	-0.0088	0.94695	0.30082	76.466	7.627	0.12522	2644.0
17.6339	0.9469	-0.0044	0.94693	0.30311	76.558	7.634	0.12523	2644.4
17.5000	0.9469	-0.0000	0.94693	0.30543	76.590	7.637	0.12524	2644.4

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.7170 ENTROPY=36.1891
GAMMA (AVG.)=1.1211 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.7170	0.9471	-0.0398	0.94795	0.28469	86.370	8.065	0.11909	2780.5
18.5933	0.9472	-0.0358	0.94787	0.28680	86.952	8.113	0.11915	2782.4
18.4736	0.9473	-0.0318	0.94780	0.28888	87.469	8.155	0.11920	2784.1
18.3519	0.9473	-0.0278	0.94773	0.29095	87.924	8.192	0.11925	2785.5
18.2302	0.9474	-0.0239	0.94768	0.29300	88.318	8.224	0.11930	2786.8
18.1085	0.9474	-0.0199	0.94763	0.29506	88.652	8.251	0.11933	2788.0
17.9868	0.9475	-0.0159	0.94760	0.29711	88.928	8.273	0.11936	2789.1
17.8651	0.9475	-0.0120	0.94757	0.29917	89.144	8.292	0.11938	2789.5
17.7434	0.9475	-0.0080	0.94755	0.30124	89.301	8.304	0.11940	2790.2
17.6217	0.9475	-0.0040	0.94753	0.30332	89.398	8.312	0.11941	2790.4
17.5000	0.9475	-0.0000	0.94753	0.30543	89.432	8.315	0.11941	2790.4

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.6167 ENTROPY=36.7094
GAMMA (AVG.)=1.1260 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.6167	0.9477	-0.0366	0.94838	0.28637	100.049	8.733	0.11454	2922.2
18.5050	0.9477	-0.0329	0.94831	0.28830	100.664	8.780	0.11461	2924.0
18.3933	0.9478	-0.0292	0.94825	0.29021	101.212	8.821	0.11466	2925.8
18.2816	0.9479	-0.0256	0.94820	0.29211	101.693	8.858	0.11470	2927.3
18.1700	0.9479	-0.0219	0.94815	0.29400	102.111	8.890	0.11474	2928.4
18.0583	0.9479	-0.0183	0.94811	0.29589	102.466	8.917	0.11478	2929.5
17.9466	0.9480	-0.0146	0.94808	0.29778	102.758	8.939	0.11480	2930.2
17.8350	0.9480	-0.0110	0.94806	0.29967	102.987	8.957	0.11483	2930.7
17.7233	0.9480	-0.0074	0.94804	0.30157	103.153	8.969	0.11484	2931.3
17.6116	0.9480	-0.0037	0.94803	0.30349	103.255	8.978	0.11485	2931.5
17.5000	0.9480	-0.0000	0.94802	0.30543	103.292	8.980	0.11485	2931.5

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.5359 ENTROPY=37.2330
GAMMA (AVG.)=1.1386 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.5359	0.9481	-0.0339	0.94873	0.28773	114.741	9.367	0.11110	3065.2
18.4323	0.9482	-0.0305	0.94867	0.28952	115.393	9.413	0.11116	3067.1
18.3287	0.9482	-0.0271	0.94862	0.29130	115.973	9.455	0.11121	3068.6
18.2251	0.9483	-0.0237	0.94858	0.29306	116.485	9.491	0.11125	3070.1
18.1215	0.9483	-0.0204	0.94854	0.29482	116.928	9.522	0.11129	3071.4
18.0179	0.9484	-0.0170	0.94850	0.29657	117.304	9.548	0.11132	3072.6
17.9143	0.9484	-0.0136	0.94848	0.29833	117.614	9.571	0.11134	3073.1
17.8107	0.9484	-0.0102	0.94845	0.30009	117.857	9.587	0.11137	3074.1
17.7072	0.9484	-0.0068	0.94844	0.30185	118.033	9.599	0.11138	3074.6
17.6036	0.9484	-0.0034	0.94843	0.30364	118.141	9.608	0.11139	3074.7
17.5000	0.9484	0.0000	0.94842	0.30543	118.180	9.611	0.11140	3074.8

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.4073 ENTRØPY=38.5684
GAMMA (AVG.)=1.1920 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.4073	0.9488	-0.0298	0.94930	0.28992	155.889	10.612	0.10682	3491.5
18.3165	0.9489	-0.0268	0.94926	0.29148	156.658	10.655	0.10668	3494.0
18.2258	0.9489	-0.0238	0.94922	0.29303	157.344	10.695	0.10673	3495.7
18.1351	0.9490	-0.0208	0.94918	0.29458	157.949	10.729	0.10677	3497.7
18.0444	0.9490	-0.0179	0.94915	0.29612	158.474	10.760	0.10681	3499.1
17.9536	0.9490	-0.0149	0.94913	0.29766	158.920	10.785	0.10684	3500.4
17.8629	0.9490	-0.0119	0.94910	0.29920	159.287	10.805	0.10687	3501.7
17.7722	0.9490	-0.0090	0.94909	0.30074	159.575	10.821	0.10688	3502.7
17.6814	0.9491	-0.0060	0.94908	0.30230	159.784	10.834	0.10690	3503.1
17.5907	0.9491	-0.0030	0.94907	0.30386	159.912	10.842	0.10691	3503.1
17.5000	0.9491	0.0000	0.94907	0.30543	159.957	10.844	0.10691	3503.4

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=18.4216 ENTRØPY=40.1513
GAMMA (AVG.)=1.2235 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.4216	0.9488	-0.0302	0.94924	0.28969	203.303	10.460	0.10877	4357.0
18.3295	0.9488	-0.0272	0.94919	0.29127	204.322	10.503	0.10882	4360.4
18.2373	0.9488	-0.0242	0.94915	0.29284	205.231	10.541	0.10886	4363.5
18.1451	0.9489	-0.0211	0.94911	0.29441	206.033	10.575	0.10891	4366.1
18.0530	0.9489	-0.0181	0.94908	0.29597	206.730	10.604	0.10894	4368.5
17.9608	0.9489	-0.0151	0.94906	0.29754	207.321	10.629	0.10897	4370.5
17.8686	0.9490	-0.0121	0.94903	0.29910	207.808	10.649	0.10899	4372.1
17.7765	0.9490	-0.0091	0.94902	0.30067	208.191	10.665	0.10901	4373.5
17.6844	0.9490	-0.0061	0.94900	0.30225	208.467	10.677	0.10902	4374.3
17.5922	0.9490	-0.0030	0.94900	0.30383	208.637	10.684	0.10903	4374.9
17.5000	0.9490	0.0000	0.94899	0.30543	208.698	10.687	0.10904	4375.1

CNLF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 5427.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.4753

ENTROPY=30.5776

GAMMA (AVG.)=1.3843 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VN	V	THETA	P	RHO	MU	T (K)
24.9203	0.8951	0.91520	0.25203	3.546	2.336	0.34260	410.7
24.4283	0.8971	0.91336	0.26183	3.634	2.378	0.34453	413.6
23.9362	0.8989	0.91179	0.27124	3.710	2.413	0.34618	416.0
23.4442	0.9005	0.91043	0.28045	3.777	2.444	0.34761	418.1
22.9522	0.9019	0.90926	0.28961	3.835	2.471	0.34884	419.9
22.4601	0.9031	0.90825	0.29882	3.885	2.494	0.34989	421.5
21.9681	0.9040	0.90741	0.30818	3.928	2.514	0.35077	422.7
21.4761	0.9044	0.90673	0.31779	3.962	2.530	0.35148	423.8
20.9841	0.9053	0.90621	0.32774	3.988	2.541	0.35201	424.6
20.4920	0.9057	0.90588	0.33812	4.005	2.549	0.35235	425.1
20.0000	0.9057	0.90575	0.34907	4.011	2.552	0.35248	425.3

CNLF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 5427.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.9203

ENTROPY=30.7793

GAMMA (AVG.)=1.3885 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VN	V	THETA	P	RHO	MU	T (K)
24.9203	0.9069	0.91898	0.27239	5.021	2.833	0.29275	479.5
24.4283	0.9081	0.91786	0.28014	5.123	2.875	0.29394	482.2
23.9362	0.9091	0.91689	0.28766	5.212	2.911	0.29497	484.5
23.4442	0.9101	0.91604	0.29505	5.291	2.942	0.29587	486.5
22.9522	0.9109	0.91531	0.30240	5.359	2.970	0.29664	488.3
22.4601	0.9116	0.91469	0.30978	5.418	2.993	0.29729	489.8
21.9681	0.9122	0.91417	0.31724	5.467	3.013	0.29784	491.0
21.4761	0.9126	0.91375	0.32483	5.507	3.028	0.29827	492.0
20.9841	0.9129	0.91344	0.33263	5.536	3.040	0.29860	492.8
20.4920	0.9131	0.91324	0.34069	5.555	3.047	0.29880	493.2
20.0000	0.9132	0.91316	0.34907	5.562	3.050	0.29888	493.4

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.0301 ENTROPY=31.0330
GAMMA (AVG.)=1.3797 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.0301	0.9133	-0.1236	0.92164	0.28486	6.820	3.254	0.26136	560.2
23.6271	0.9141	-0.1112	0.92086	0.29135	6.939	3.335	0.26219	562.9
23.2241	0.9149	-0.0989	0.92018	0.29768	7.044	3.372	0.26292	565.2
22.8211	0.9155	-0.0867	0.91959	0.30392	7.136	3.404	0.26355	567.2
22.4181	0.9161	-0.0745	0.91908	0.31013	7.216	3.431	0.26409	569.0
22.0151	0.9165	-0.0623	0.91865	0.31635	7.285	3.455	0.26455	570.5
21.6120	0.9169	-0.0501	0.91829	0.32263	7.342	3.475	0.26494	571.7
21.2090	0.9172	-0.0378	0.91800	0.32900	7.388	3.490	0.26524	572.7
20.8060	0.9174	-0.0254	0.91778	0.33550	7.421	3.502	0.26546	573.4
20.4030	0.9176	-0.0128	0.91765	0.34217	7.443	3.509	0.26561	573.9
20.0000	0.9176	0.0000	0.91759	0.34907	7.451	3.512	0.26566	574.0

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.0813 ENTROPY=31.6284
GAMMA (AVG.)=1.3568 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.0813	0.9199	-0.0961	0.92494	0.29880	11.397	4.081	0.22426	755.5
22.7732	0.9204	-0.0864	0.92447	0.30389	11.556	4.123	0.22476	758.3
22.4651	0.9209	-0.0768	0.92405	0.30887	11.697	4.160	0.22521	760.7
22.1569	0.9212	-0.0673	0.92369	0.31380	11.821	4.193	0.22560	762.8
21.8488	0.9216	-0.0578	0.92338	0.31870	11.928	4.221	0.22593	764.6
21.5407	0.9218	-0.0483	0.92311	0.32361	12.021	4.245	0.22621	766.2
21.2325	0.9221	-0.0388	0.92289	0.32855	12.097	4.265	0.22645	767.5
20.9244	0.9223	-0.0292	0.92272	0.33354	12.158	4.280	0.22663	768.5
20.6163	0.9224	-0.0196	0.92259	0.33860	12.203	4.292	0.22677	769.2
20.3081	0.9225	-0.0098	0.92251	0.34377	12.230	4.299	0.22685	769.7
20.0000	0.9225	0.0000	0.92248	0.34907	12.241	4.302	0.22688	769.8

CONE SEMI-ANGLE-20.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHECK ANGLE=22.5918 ENTRBPY=32.2690
GAMMA (AVG.)=1.3351 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.5918	0.9233	-0.0815	0.92685	0.30628	17.279	4.715	0.20314	991.5
22.3326	0.9236	-0.0733	0.92651	0.31060	17.487	4.757	0.20351	994.5
22.0734	0.9239	-0.0651	0.92617	0.31486	17.671	4.795	0.20383	997.1
21.8142	0.9242	-0.0571	0.92595	0.31907	17.833	4.828	0.20411	999.4
21.5551	0.9244	-0.0490	0.92572	0.32327	17.973	4.856	0.20436	1001.4
21.2959	0.9246	-0.0409	0.92553	0.32746	18.094	4.880	0.20456	1003.1
21.0367	0.9248	-0.0328	0.92537	0.33167	18.193	4.901	0.20473	1004.4
20.7775	0.9249	-0.0247	0.92524	0.33592	18.272	4.916	0.20487	1005.5
20.5183	0.9250	-0.0165	0.92515	0.34023	18.330	4.928	0.20497	1006.3
20.2592	0.9251	-0.0083	0.92509	0.34460	18.366	4.935	0.20503	1006.8
20.0000	0.9251	0.0000	0.92507	0.34907	18.379	4.938	0.20505	1007.0

CONE SEMI-ANGLE-20.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHECK ANGLE=22.2957 ENTRBPY=32.9113
GAMMA (AVG.)=1.3192 STAG. ENTHALPY=6.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.2957	0.9252	-0.0725	0.92807	0.31090	24.469	5.230	0.18969	1265.7
22.0661	0.9255	-0.0652	0.92780	0.31476	24.733	5.273	0.18998	1269.0
21.8366	0.9257	-0.0580	0.92756	0.31856	24.986	5.311	0.19024	1271.9
21.6070	0.9260	-0.0508	0.92736	0.32233	25.172	5.344	0.19047	1274.4
21.3774	0.9262	-0.0436	0.92718	0.32608	25.351	5.373	0.19066	1276.6
21.1478	0.9263	-0.0364	0.92702	0.32983	25.503	5.397	0.19083	1278.5
20.9183	0.9264	-0.0292	0.92690	0.33359	25.629	5.417	0.19097	1280.0
20.6887	0.9265	-0.0220	0.92680	0.33738	25.729	5.433	0.19107	1281.2
20.4591	0.9266	-0.0147	0.92672	0.34122	25.802	5.445	0.19115	1282.1
20.2296	0.9266	-0.0074	0.92668	0.34511	25.847	5.452	0.19120	1282.6
20.0000	0.9267	0.0000	0.92666	0.34907	25.864	5.455	0.19122	1282.8

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=22.0998 ENTROPY=33.5365
GAMMA (AVG.)=1.3085 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.0998	0.9265	-0.0666	0.92891	0.31400	32.967	5.652	0.18054	1578.1
21.8898	0.9268	-0.0599	0.92869	0.31754	33.294	5.695	0.18079	1581.7
21.6798	0.9270	-0.0532	0.92849	0.32103	33.584	5.733	0.18101	1585.0
21.4698	0.9271	-0.0466	0.92831	0.32450	33.839	5.766	0.18120	1587.8
21.2599	0.9273	-0.0400	0.92816	0.32795	34.061	5.795	0.18137	1590.3
21.0499	0.9274	-0.0334	0.92803	0.33140	34.250	5.819	0.18151	1592.3
20.8399	0.9275	-0.0268	0.92792	0.33487	34.406	5.840	0.18162	1594.1
20.6299	0.9276	-0.0201	0.92784	0.33835	34.530	5.856	0.18171	1595.4
20.4199	0.9277	-0.0135	0.92778	0.34187	34.620	5.867	0.18178	1596.4
20.2100	0.9277	-0.0068	0.92774	0.34544	34.676	5.875	0.18182	1597.0
20.0000	0.9277	-0.0000	0.92772	0.34907	34.696	5.877	0.18184	1597.2

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.9627 ENTROPY=34.1363
GAMMA (AVG.)=1.3015 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.9627	0.9274	-0.0624	0.92952	0.31618	42.774	5.998	0.17402	1929.5
21.7664	0.9276	-0.0561	0.92932	0.31950	43.171	6.040	0.17424	1933.7
21.5702	0.9278	-0.0499	0.92914	0.32278	43.524	6.078	0.17444	1937.3
21.3739	0.9280	-0.0437	0.92899	0.32604	43.835	6.112	0.17461	1940.5
21.1776	0.9281	-0.0375	0.92885	0.32928	44.105	6.141	0.17476	1943.3
20.9813	0.9282	-0.0313	0.92874	0.33252	44.336	6.165	0.17488	1945.6
20.7851	0.9283	-0.0251	0.92865	0.33577	44.526	6.186	0.17498	1947.6
20.5888	0.9284	-0.0189	0.92857	0.33903	44.676	6.202	0.17507	1949.1
20.3925	0.9284	-0.0126	0.92852	0.34233	44.785	6.213	0.17512	1950.2
20.1963	0.9285	-0.0063	0.92849	0.34567	44.853	6.220	0.17516	1950.9
20.0000	0.9285	0.0000	0.92847	0.34907	44.877	6.223	0.17517	1951.1

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=21.8629 ENTRØPY=34.7077
GAMMA (AVG.)=1.2968 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.8629	0.9281	-0.0593	0.92997	0.31779	53.887	6.281	0.16922	2321.1
21.5766	0.9283	-0.0533	0.92979	0.32094	54.363	6.324	0.16942	2325.8
21.4903	0.9284	-0.0474	0.92963	0.32406	54.787	6.362	0.16960	2329.9
21.3040	0.9286	-0.0415	0.92949	0.32716	55.160	6.395	0.16976	2333.6
21.1178	0.9287	-0.0356	0.92937	0.33025	55.484	6.424	0.16989	2336.7
20.9315	0.9288	-0.0297	0.92926	0.33333	55.760	6.449	0.17001	2339.3
20.7452	0.9289	-0.0238	0.92918	0.33642	55.988	6.469	0.17010	2341.5
20.5589	0.9289	-0.0179	0.92911	0.33953	56.168	6.485	0.17018	2343.2
20.3726	0.9290	-0.0120	0.92906	0.34267	56.299	6.497	0.17023	2344.5
20.1863	0.9290	-0.0060	0.92903	0.34584	56.379	6.504	0.17026	2345.3
20.0000	0.9290	-0.0000	0.92902	0.34907	56.409	6.507	0.17028	2345.5

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=21.6548 ENTRØPY=35.3462
GAMMA (AVG.)=1.1330 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.6548	0.9294	-0.0530	0.93093	0.32099	66.304	6.963	0.14967	2538.7
21.4893	0.9296	-0.0476	0.93079	0.32385	66.832	7.012	0.14977	2540.7
21.3238	0.9297	-0.0423	0.93066	0.32668	67.301	7.055	0.14985	2542.5
21.1583	0.9298	-0.0370	0.93054	0.32947	67.713	7.092	0.14991	2544.4
20.9929	0.9299	-0.0318	0.93045	0.33225	68.070	7.125	0.14998	2545.7
20.8274	0.9300	-0.0265	0.93036	0.33502	68.373	7.153	0.15003	2546.8
20.6619	0.9301	-0.0212	0.93030	0.33779	68.623	7.175	0.15007	2548.0
20.4964	0.9301	-0.0160	0.93024	0.34058	68.819	7.193	0.15010	2548.7
20.3310	0.9301	-0.0107	0.93020	0.34338	68.962	7.206	0.15012	2549.1
20.1655	0.9302	-0.0053	0.93018	0.34621	69.050	7.214	0.15015	2549.5
20.0000	0.9302	0.0000	0.93017	0.34907	69.081	7.217	0.15014	2549.6

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=21.4739 ENTRØPY=35.9359
GAMMA (AVG.)=1.1220 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.4739	0.9306	-0.0473	0.93179	0.32398	80.067	7.735	0.14097	2709.4
21.3265	0.9307	-0.0426	0.93167	0.32653	80.633	7.782	0.14105	2711.6
21.1791	0.9308	-0.0378	0.93157	0.32905	81.135	7.825	0.14112	2713.2
21.0317	0.9309	-0.0331	0.93148	0.33155	81.577	7.862	0.14118	2715.1
20.8843	0.9310	-0.0284	0.93140	0.33404	81.960	7.894	0.14123	2716.3
20.7369	0.9311	-0.0237	0.93133	0.33651	82.284	7.922	0.14128	2717.3
20.5895	0.9311	-0.0190	0.93128	0.33900	82.552	7.944	0.14132	2718.4
20.4421	0.9311	-0.0142	0.93124	0.34148	82.762	7.963	0.14135	2718.8
20.2948	0.9312	-0.0095	0.93121	0.34399	82.915	7.974	0.14137	2719.7
20.1474	0.9312	-0.0048	0.93119	0.34651	83.009	7.983	0.14138	2719.8
20.0000	0.9312	0.0000	0.93118	0.34907	83.042	7.986	0.14138	2719.9

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=21.3297 ENTRØPY=35.9359
GAMMA (AVG.)=1.1220 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.4739	0.9306	-0.0473	0.93179	0.32398	34.7677677.312	0.14097	2709.4	
21.3265	0.9307	-0.0426	0.93167	0.32653	35.0124839.906	0.14105	2711.6	
21.1791	0.9308	-0.0378	0.93157	0.32905	35.2300372.281	0.14112	2713.2	
21.0317	0.9309	-0.0331	0.93148	0.33155	35.4223582.375	0.14118	2715.1	
20.8843	0.9310	-0.0284	0.93140	0.33404	35.5885442.406	0.14123	2716.3	
20.7369	0.9310	-0.0237	0.93133	0.33651	35.7295431.031	0.14128	2717.3	
20.5895	0.9311	-0.0190	0.93128	0.33900	35.8453426.844	0.14132	2718.4	
20.4421	0.9311	-0.0142	0.93124	0.34148	35.9370224.937	0.14135	2718.8	
20.2948	0.9312	-0.0095	0.93121	0.34399	36.0034495.406	0.14137	2719.7	
20.1474	0.9312	-0.0048	0.93119	0.34651	36.0475449.000	0.14138	2719.8	
20.0000	0.9312	0.0000	0.93118	0.34907	36.0588567.625	0.14138	2719.9	

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.2163 ENTRØPY=37.1210

GAMMA (AVG.)=1.1354 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.2163	0.9322	-0.0392	0.93304	0.32829	111.526	9.237	0.12933	3033.9
21.0947	0.9323	-0.0352	0.93296	0.33039	112.169	9.283	0.12940	3036.0
20.9730	0.9324	-0.0313	0.93289	0.33248	112.742	9.324	0.12946	3037.4
20.8514	0.9324	-0.0274	0.93283	0.33455	113.247	9.360	0.12951	3039.1
20.7298	0.9325	-0.0235	0.93278	0.33661	113.685	9.392	0.12955	3040.1
20.6081	0.9325	-0.0196	0.93273	0.33867	114.056	9.418	0.12960	3041.4
20.4865	0.9326	-0.0157	0.93270	0.34072	114.362	9.441	0.12963	3042.0
20.3649	0.9326	-0.0118	0.93267	0.34279	114.602	9.457	0.12965	3042.8
20.2432	0.9326	-0.0079	0.93265	0.34487	114.776	9.471	0.12967	3043.1
20.1216	0.9326	-0.0039	0.93263	0.34696	114.883	9.478	0.12968	3043.5
20.0000	0.9326	0.0000	0.93263	0.34907	114.921	9.481	0.12969	3043.6

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.1294 ENTRØPY=37.7212

GAMMA (AVG.)=1.1554 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.1294	0.9328	-0.0364	0.93348	0.32976	129.217	9.898	0.12589	3206.4
21.0165	0.9328	-0.0328	0.93341	0.33171	129.906	9.944	0.12595	3208.4
20.9036	0.9329	-0.0291	0.93335	0.33364	130.521	9.984	0.12601	3210.2
20.7906	0.9329	-0.0255	0.93330	0.33556	131.062	10.021	0.12606	3211.4
20.6777	0.9330	-0.0218	0.93325	0.33748	131.532	10.052	0.12611	3212.5
20.5647	0.9330	-0.0182	0.93321	0.33939	131.931	10.077	0.12615	3214.0
20.4518	0.9331	-0.0146	0.93318	0.34131	132.259	10.099	0.12618	3214.7
20.3388	0.9331	-0.0110	0.93315	0.34323	132.517	10.117	0.12620	3215.3
20.2259	0.9331	-0.0073	0.93313	0.34516	132.704	10.129	0.12622	3215.9
20.1129	0.9331	-0.0037	0.93312	0.34710	132.818	10.136	0.12623	3216.3
20.0000	0.9331	-0.0000	0.93312	0.34906	132.859	10.138	0.12623	3216.5

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.750E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 32456.2 FT./SEC. ENTRRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.0670 ENTRRBPY=38.3304
 GAMMA (AVG.)=1.1811 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T	IK1
21.0670	0.9332	-0.0344	0.93379	0.33082	148.215	10.443	0.12381	3404.9	
20.9603	0.9332	-0.0310	0.93373	0.33266	148.959	10.487	0.12388	3406.9	
20.8536	0.9333	-0.0275	0.93368	0.33448	149.623	10.528	0.12393	3408.5	
20.7469	0.9333	-0.0241	0.93363	0.33630	150.209	10.562	0.12399	3410.4	
20.6402	0.9334	-0.0207	0.93359	0.33811	150.717	10.592	0.12403	3411.8	
20.5335	0.9334	-0.0172	0.93356	0.33992	151.149	10.618	0.12406	3413.1	
20.4268	0.9334	-0.0138	0.93353	0.34173	151.504	10.640	0.12410	3413.8	
20.3201	0.9334	-0.0104	0.93350	0.34355	151.783	10.656	0.12412	3414.9	
20.2134	0.9335	-0.0069	0.93349	0.34537	151.985	10.668	0.12414	3415.2	
20.1067	0.9335	-0.0035	0.93348	0.34721	152.108	10.676	0.12415	3415.4	
20.0000	0.9335	-0.0000	0.93347	0.34906	152.153	10.678	0.12415	3415.7	

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.750E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 37863.3 FT./SEC. ENTRRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=21.0646 ENTRRBPY=40.0903
 GAMMA (AVG.)=1.2244 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T	IK1
21.0646	0.9332	-0.0343	0.93381	0.33088	201.391	10.471	0.12583	4319.9	
20.9581	0.9332	-0.0309	0.93375	0.33271	202.399	10.513	0.12590	4323.6	
20.8517	0.9333	-0.0274	0.93369	0.33453	203.299	10.551	0.12595	4326.8	
20.7452	0.9333	-0.0240	0.93364	0.33634	204.092	10.585	0.12600	4329.5	
20.6388	0.9334	-0.0206	0.93360	0.33814	204.781	10.613	0.12604	4332.2	
20.5323	0.9334	-0.0172	0.93357	0.33995	205.366	10.638	0.12608	4333.9	
20.4258	0.9334	-0.0138	0.93354	0.34175	205.848	10.658	0.12611	4335.8	
20.3194	0.9335	-0.0103	0.93352	0.34356	206.226	10.674	0.12614	4337.2	
20.2129	0.9335	-0.0069	0.93350	0.34539	206.500	10.685	0.12615	4338.1	
20.1065	0.9335	-0.0035	0.93349	0.34722	206.668	10.692	0.12616	4338.8	
20.0000	0.9335	0.0000	0.93349	0.34907	206.728	10.695	0.12617	4338.8	

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=20.9800 ENTRPHY=41.5577
 GAMMA (AVG.)=1.1696 STAG. ENTHALPHY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
20.9800	0.9337	-0.0317	0.93424	0.33228	262.765	11.310	0.11818	5055.8
20.8820	0.9338	-0.0285	0.93419	0.33397	263.977	11.355	0.11822	5058.4
20.7840	0.9338	-0.0253	0.93414	0.33565	265.060	11.395	0.11826	5060.7
20.6860	0.9338	-0.0222	0.93410	0.33732	266.014	11.431	0.11829	5062.7
20.5880	0.9339	-0.0190	0.93407	0.33899	266.862	11.462	0.11831	5064.3
20.4900	0.9339	-0.0158	0.93404	0.34066	267.545	11.488	0.11833	5065.9
20.3920	0.9339	-0.0127	0.93402	0.34232	268.124	11.509	0.11835	5067.1
20.2940	0.9339	-0.0095	0.93400	0.34400	268.576	11.526	0.11836	5068.0
20.1960	0.9340	-0.0064	0.93398	0.34567	268.906	11.538	0.11838	5068.7
20.0980	0.9340	-0.0032	0.93397	0.34736	269.107	11.546	0.11838	5069.1
20.0000	0.9340	0.0000	0.93397	0.34907	269.179	11.548	0.11838	5069.2

CRME SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTRPHY=30.3778

CRME SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.9938 ENTRPHY=30.4853
GAMMA AVG.=1.3966 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9938	0.8480	-0.2629	0.88783	0.25782	2.782	2.015	0.45632	373.5
31.0444	0.8521	-0.2364	0.88428	0.27125	2.862	2.057	0.46023	376.5
40.0951	0.8558	-0.2105	0.88129	0.28403	2.930	2.092	0.46356	379.0
29.1457	0.8590	-0.1850	0.87871	0.29652	2.990	2.122	0.46643	381.2
28.1983	0.8618	-0.1596	0.87648	0.30898	3.042	2.149	0.46892	383.1
27.2469	0.8642	-0.1341	0.87455	0.32159	3.087	2.171	0.47106	384.7
26.2975	0.8662	-0.1084	0.87293	0.33451	3.126	2.191	0.47288	386.0
25.3481	0.8677	-0.0822	0.87160	0.34791	3.157	2.207	0.47436	387.1
24.3988	0.8688	-0.0556	0.87059	0.36194	3.181	2.219	0.47549	388.0
23.4494	0.8695	-0.0282	0.86992	0.37680	3.197	2.226	0.47622	388.5
22.5000	0.8697	-0.0000	0.86965	0.39270	3.203	2.229	0.47650	388.7

FLOW PROPERTIES

SHOCK ANGLE=28.9659 ENTRPHY=30.6671
GAMMA AVG.=1.3919 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9659	0.8749	-0.1878	0.89478	0.29413	4.217	2.579	0.36429	442.3
28.3193	0.8769	-0.1688	0.89296	0.30403	4.311	2.620	0.36623	445.1
27.6727	0.8786	-0.1502	0.89130	0.31361	4.393	2.656	0.36790	447.5
27.0261	0.8802	-0.1318	0.89002	0.32303	4.465	2.688	0.36935	449.8
26.3795	0.8816	-0.1135	0.88884	0.33240	4.528	2.715	0.37060	451.3
25.7329	0.8827	-0.0951	0.88783	0.34182	4.582	2.738	0.37167	452.8
25.0863	0.8837	-0.0766	0.88698	0.35138	4.628	2.757	0.37256	454.1
24.4397	0.8844	-0.0579	0.88630	0.36117	4.665	2.773	0.37328	455.1
23.7932	0.8849	-0.0390	0.88579	0.37125	4.692	2.785	0.37382	455.9
23.1466	0.8852	-0.0197	0.88546	0.38173	4.710	2.792	0.37416	456.3
22.5000	0.8853	0.0000	0.88533	0.39270	4.716	2.795	0.37428	456.5

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.6328 ENTROPY=31.2368

GAMMA (AVG.)=1.3719 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6328	0.8939	-0.1246	0.90252	0.32628	8.312	3.596	0.28170	625.3
26.2195	0.8947	-0.1121	0.90172	0.33298	8.444	3.638	0.28254	628.0
25.8062	0.8955	-0.0997	0.90101	0.33954	8.561	3.675	0.28328	630.3
25.3930	0.8961	-0.0874	0.90039	0.34601	8.663	3.707	0.28392	632.3
24.9797	0.8967	-0.0751	0.89985	0.35246	8.753	3.735	0.28448	634.1
24.5664	0.8972	-0.0628	0.89940	0.35891	8.829	3.758	0.28495	635.6
24.1531	0.8976	-0.0504	0.89902	0.36542	8.893	3.778	0.28534	636.8
23.7398	0.8979	-0.0380	0.89872	0.37202	8.944	3.794	0.28565	637.8
23.3266	0.8981	-0.0255	0.89850	0.37873	8.981	3.805	0.28588	638.6
22.9133	0.8983	-0.0128	0.89836	0.38562	9.005	3.813	0.28602	639.0
22.5000	0.8983	0.0000	0.89830	0.39270	9.013	3.815	0.28608	639.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 5409.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=27.4815 ENTROPY=30.9263

GAMMA (AVG.)=1.3835 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.4815	0.8871	-0.1482	0.89942	0.31416	6.060	3.114	0.31355	526.4
26.9833	0.8883	-0.1332	0.89828	0.32207	6.172	3.156	0.31475	529.1
26.4852	0.8894	-0.1185	0.89728	0.32978	6.270	3.192	0.31579	531.4
25.9870	0.8904	-0.1039	0.89642	0.33738	6.357	3.224	0.31670	533.5
25.4889	0.8912	-0.0893	0.89567	0.34495	6.432	3.251	0.31748	535.2
24.9907	0.8919	-0.0748	0.89503	0.35254	6.496	3.275	0.31815	536.7
24.4926	0.8925	-0.0601	0.89450	0.36021	6.550	3.295	0.31870	537.9
23.9944	0.8929	-0.0454	0.89407	0.36800	6.593	3.310	0.31914	538.9
23.4963	0.8932	-0.0305	0.89376	0.37598	6.625	3.322	0.31947	539.6
22.9981	0.8934	-0.0154	0.89356	0.38413	6.646	3.329	0.31967	540.1
22.5000	0.8935	0.0000	0.89348	0.39270	6.653	3.332	0.31975	540.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHECK ANGLE=25.7209 ENTRØPY=31.9319
GAMMA (AVG.)=1.3458 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.7209	0.9009	-0.0986	0.90629	0.33988	14.041	4.400	0.24404	863.3
25.3988	0.9014	-0.0887	0.90578	0.34521	14.222	4.442	0.24456	866.1
25.0767	0.9019	-0.0789	0.90533	0.35045	14.382	4.480	0.24502	868.6
24.7547	0.9023	-0.0691	0.90494	0.35564	14.524	4.512	0.24543	870.8
24.4326	0.9027	-0.0593	0.90461	0.36080	14.647	4.541	0.24577	872.7
24.1105	0.9030	-0.0496	0.90432	0.36597	14.752	4.565	0.24607	874.3
23.7884	0.9032	-0.0398	0.90408	0.37117	14.839	4.585	0.24631	875.6
23.4663	0.9034	-0.0300	0.90389	0.37642	14.908	4.601	0.24650	876.7
23.1442	0.9035	-0.0201	0.90375	0.38174	14.958	4.612	0.24665	877.4
22.8221	0.9036	-0.0101	0.90367	0.38716	14.990	4.620	0.24673	877.9
22.5000	0.9036	0.0000	0.90363	0.39270	15.001	4.622	0.24677	878.1

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHECK ANGLE=25.2446 ENTRØPY=32.6531
GAMMA (AVG.)=1.3250 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
25.2446	0.9045	-0.0847	0.90845	0.34722	21.406	5.035	0.22269	1150.4
24.9702	0.9049	-0.0762	0.90807	0.35181	21.646	5.077	0.22308	1153.5
24.6957	0.9052	-0.0677	0.90774	0.35634	21.859	5.115	0.22342	1156.3
24.4212	0.9055	-0.0593	0.90745	0.36082	22.046	5.148	0.22372	1158.7
24.1468	0.9058	-0.0509	0.90720	0.36528	22.209	5.176	0.22397	1160.8
23.8723	0.9060	-0.0425	0.90699	0.36975	22.348	5.201	0.22419	1162.6
23.5978	0.9062	-0.0341	0.90681	0.37423	22.463	5.221	0.22437	1164.0
23.3234	0.9063	-0.0257	0.90667	0.37875	22.554	5.237	0.22451	1165.2
23.0489	0.9064	-0.0172	0.90657	0.38332	22.620	5.249	0.22462	1166.0
22.7745	0.9065	-0.0086	0.90650	0.38797	22.662	5.254	0.22468	1166.6
22.5000	0.9065	0.0000	0.90648	0.39270	22.677	5.259	0.22471	1166.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.9557 ENTROPY=33.3605
GAMMA (AVG.)=1.3111 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.9557	0.9066	-0.0762	0.90982	0.35176	30.410	5.540	0.20921	1485.0
24.7101	0.9069	-0.0685	0.90952	0.35589	30.717	5.583	0.20953	1488.6
24.4645	0.9072	-0.0609	0.90925	0.35997	30.991	5.621	0.20980	1491.7
24.2190	0.9075	-0.0533	0.90902	0.36401	31.231	5.654	0.21005	1494.5
23.9734	0.9077	-0.0458	0.90881	0.36804	31.440	5.683	0.21026	1496.8
23.7278	0.9078	-0.0382	0.90864	0.37207	31.619	5.708	0.21044	1498.8
23.4823	0.9080	-0.0306	0.90850	0.37611	31.766	5.728	0.21058	1500.5
23.2367	0.9081	-0.0231	0.90839	0.38018	31.882	5.744	0.21070	1501.8
22.9911	0.9082	-0.0154	0.90830	0.38429	31.967	5.755	0.21078	1502.7
22.7456	0.9082	-0.0077	0.90825	0.38846	32.020	5.763	0.21083	1503.3
22.5000	0.9082	-0.0000	0.90823	0.39270	32.039	5.765	0.21085	1503.5

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS
MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=7.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.7652 ENTROPY=34.0385
GAMMA (AVG.)=1.3025 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.7652	0.9080	-0.0705	0.91076	0.35479	41.051	5.945	0.20013	1868.3
24.5387	0.9083	-0.0634	0.91050	0.35861	41.436	5.988	0.20040	1872.3
24.3122	0.9085	-0.0563	0.91027	0.36239	41.778	6.026	0.20064	1875.9
24.0857	0.9087	-0.0493	0.91007	0.36614	42.080	6.059	0.20085	1879.1
23.8591	0.9089	-0.0423	0.90989	0.36988	42.342	6.088	0.20104	1881.8
23.6326	0.9091	-0.0353	0.90975	0.37361	42.565	6.112	0.20119	1884.1
23.4061	0.9092	-0.0283	0.90962	0.37736	42.749	6.133	0.20132	1886.0
23.1796	0.9093	-0.0213	0.90953	0.38113	42.894	6.149	0.20142	1887.4
22.9530	0.9093	-0.0143	0.90946	0.38493	43.000	6.160	0.20149	1888.5
22.7265	0.9094	-0.0072	0.90941	0.38878	43.066	6.168	0.20153	1889.2
22.5000	0.9094	-0.0000	0.90940	0.39270	43.090	6.170	0.20155	1889.4

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.6328 ENTRØPY=34.6813
GAMMA (AVG.)=1.2970 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.6328	0.9090	-0.0665	0.91142	0.35691	53.330	6.269	0.19373	2301.6
24.4195	0.9092	-0.0598	0.91119	0.36052	53.802	6.312	0.19397	2306.3
24.2062	0.9094	-0.0532	0.91099	0.36409	54.222	6.350	0.19419	2310.4
23.9929	0.9096	-0.0465	0.91081	0.36763	54.592	6.383	0.19438	2314.0
23.7797	0.9098	-0.0399	0.91065	0.37116	54.914	6.412	0.19454	2317.1
23.5664	0.9099	-0.0333	0.91052	0.37469	55.187	6.437	0.19468	2319.7
23.3531	0.9100	-0.0267	0.91041	0.37823	55.413	6.457	0.19479	2321.9
23.1398	0.9101	-0.0201	0.91033	0.38179	55.592	6.473	0.19488	2323.6
22.9265	0.9102	-0.0134	0.91026	0.38538	55.722	6.485	0.19495	2324.8
22.7133	0.9102	-0.0067	0.91022	0.38901	55.802	6.492	0.19499	2325.6
22.5000	0.9102	-0.0000	0.91021	0.39270	55.831	6.494	0.19501	2325.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.3731 ENTRØPY=35.3883
GAMMA (AVG.)=1.1317 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.3731	0.9109	-0.0588	0.91277	0.36091	67.240	7.017	0.17024	2551.2
24.1858	0.9111	-0.0529	0.91259	0.36415	67.771	7.066	0.17035	2553.0
23.9985	0.9112	-0.0470	0.91243	0.36735	68.242	7.109	0.17044	2555.0
23.8112	0.9114	-0.0411	0.91229	0.37051	68.657	7.146	0.17053	2556.7
23.6239	0.9115	-0.0353	0.91216	0.37366	69.015	7.179	0.17060	2558.0
23.4366	0.9116	-0.0294	0.91206	0.37679	69.320	7.206	0.17066	2559.4
23.2492	0.9117	-0.0236	0.91197	0.37993	69.571	7.229	0.17071	2560.3
23.0619	0.9117	-0.0177	0.91191	0.38308	69.768	7.247	0.17076	2561.0
22.8746	0.9118	-0.0118	0.91186	0.38625	69.912	7.260	0.17078	2561.5
22.6873	0.9118	-0.0059	0.91183	0.38945	70.000	7.268	0.17081	2562.2
22.5000	0.9118	-0.0000	0.91182	0.39270	70.032	7.271	0.17081	2562.0

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=24.1480 ENTRPHY=36.0480
GAMMA (AVG.)=1.1213 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.1480	0.9125	-0.0519	0.91397	0.36464	82.829	7.882	0.15939	2741.2
23.9832	0.9126	-0.0467	0.91382	0.36749	83.402	7.929	0.15948	2743.1
23.8184	0.9128	-0.0415	0.91370	0.37031	83.911	7.972	0.15956	2744.8
23.6536	0.9129	-0.0363	0.91359	0.37310	84.358	8.008	0.15964	2746.5
23.4888	0.9130	-0.0311	0.91349	0.37588	84.746	8.040	0.15971	2747.8
23.3240	0.9130	-0.0260	0.91341	0.37866	85.075	8.068	0.15976	2748.8
23.1592	0.9131	-0.0208	0.91334	0.38143	85.346	8.090	0.15980	2750.0
22.9944	0.9132	-0.0156	0.91329	0.38422	85.559	8.108	0.15984	2750.6
22.8296	0.9132	-0.0104	0.91325	0.38702	85.714	8.121	0.15986	2751.0
22.6648	0.9132	-0.0052	0.91323	0.38984	85.809	8.129	0.15988	2751.4
22.5000	0.9132	-0.0000	0.91322	0.39270	85.843	8.131	0.15988	2751.5

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.9738 ENTRPHY=36.7098
GAMMA (AVG.)=1.1261 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.9738	0.9137	-0.0465	0.91491	0.36755	100.060	6.734	0.15137	2922.3
23.8264	0.9138	-0.0418	0.91480	0.37010	100.675	6.781	0.15145	2924.0
23.6790	0.9139	-0.0372	0.91470	0.37262	101.222	6.823	0.15153	2925.5
23.5317	0.9140	-0.0325	0.91461	0.37513	101.704	6.859	0.15161	2927.0
23.3843	0.9141	-0.0279	0.91453	0.37762	102.122	6.891	0.15166	2928.2
23.2369	0.9142	-0.0233	0.91447	0.38011	102.477	6.918	0.15171	2929.3
23.0895	0.9142	-0.0186	0.91441	0.38260	102.769	6.940	0.15174	2930.3
22.9421	0.9143	-0.0140	0.91437	0.38510	102.998	6.958	0.15178	2930.7
22.7948	0.9143	-0.0094	0.91434	0.38761	103.164	6.970	0.15180	2931.3
22.6474	0.9143	-0.0047	0.91432	0.39014	103.266	6.978	0.15182	2931.5
22.5000	0.9143	-0.0000	0.91432	0.39270	103.303	6.980	0.15182	2931.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
ENTROPY=30.3778
VELOCITY= 25963.4 FT./SEC.

FLOW PROPERTIES

SHOCK ANGLE=23.8415 ENTRØPY=37.3768
GAMMA (AVG.)=1.1430 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
23.8415	0.9147	-0.0424	0.91565	0.36978	118.930	9.531	0.14573	3105.7
23.7074	0.9148	-0.0381	0.91555	0.37210	119.592	9.577	0.14582	3107.3
23.5732	0.9148	-0.0339	0.91547	0.37439	120.182	9.618	0.14589	3109.0
23.4391	0.9149	-0.0297	0.91540	0.37668	120.702	9.655	0.14595	3110.4
23.3049	0.9150	-0.0254	0.91533	0.37895	121.153	9.685	0.14600	3111.8
23.1708	0.9150	-0.0212	0.91528	0.38122	121.536	9.711	0.14605	3113.0
23.0366	0.9151	-0.0170	0.91523	0.38349	121.851	9.734	0.14609	3113.5
22.9025	0.9151	-0.0128	0.91520	0.38577	122.098	9.750	0.14612	3114.5
22.7683	0.9151	-0.0085	0.91517	0.38806	122.277	9.763	0.14614	3114.8
22.6341	0.9151	-0.0043	0.91516	0.39037	122.387	9.771	0.14615	3115.2
22.5000	0.9152	0.0000	0.91515	0.39270	122.426	9.774	0.14616	3115.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
ENTROPY=30.3778
VELOCITY= 28127.0 FT./SEC.

FLOW PROPERTIES

SHOCK ANGLE=23.7459 ENTRØPY=38.0527
GAMMA (AVG.)=1.1690 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
23.7459	0.9153	-0.0394	0.91619	0.37140	139.435	10.214	0.14219	3310.6
23.6213	0.9154	-0.0355	0.91611	0.37355	140.153	10.259	0.14226	3312.3
23.4967	0.9155	-0.0315	0.91603	0.37568	140.794	10.299	0.14233	3314.3
23.3721	0.9156	-0.0276	0.91597	0.37780	141.358	10.334	0.14239	3316.0
23.2475	0.9156	-0.0237	0.91592	0.37991	141.848	10.364	0.14244	3317.5
23.1229	0.9157	-0.0197	0.91587	0.38202	142.264	10.390	0.14249	3318.6
22.9983	0.9157	-0.0153	0.91583	0.38414	142.606	10.411	0.14253	3319.6
22.8737	0.9157	-0.0119	0.91580	0.38626	142.875	10.428	0.14256	3320.2
22.7492	0.9157	-0.0079	0.91578	0.38839	143.069	10.441	0.14258	3320.4
22.6246	0.9158	-0.0040	0.91576	0.39053	143.189	10.448	0.14259	3320.9
22.5000	0.9158	-0.0000	0.91576	0.39270	143.232	10.451	0.14259	3321.1

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30200.6 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.6842 ENTRPHY=38.7425
GAMMA (AVG.)=1.1998 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6842	0.9158	-0.0375	0.91654	0.37245	161.577	10.714	0.14051	3560.2
23.5658	0.9158	-0.0337	0.91647	0.37449	162.365	10.759	0.14059	3562.3
23.4473	0.9159	-0.0300	0.91640	0.37651	163.069	10.798	0.14066	3564.3
23.3289	0.9160	-0.0262	0.91634	0.37853	163.689	10.833	0.14073	3566.0
23.2105	0.9160	-0.0225	0.91629	0.38054	164.228	10.862	0.14078	3567.7
23.0921	0.9161	-0.0188	0.91625	0.38254	164.686	10.888	0.14083	3569.0
22.9737	0.9161	-0.0150	0.91622	0.38456	165.062	10.909	0.14086	3570.0
22.8552	0.9161	-0.0113	0.91619	0.38657	165.358	10.925	0.14089	3571.2
22.7368	0.9161	-0.0075	0.91617	0.38860	165.572	10.938	0.14091	3571.3
22.6184	0.9161	-0.0038	0.91616	0.39064	165.703	10.944	0.14093	3572.0
22.5000	0.9162	-0.0000	0.91615	0.39269	165.750	10.946	0.14093	3572.4

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.6639 ENTRPHY=39.4554
GAMMA (AVG.)=1.2245 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6639	0.9159	-0.0368	0.91666	0.37281	185.351	10.894	0.14074	3908.1
23.5475	0.9160	-0.0331	0.91658	0.37481	186.239	10.936	0.14082	3911.6
23.4311	0.9160	-0.0295	0.91652	0.37680	187.031	10.972	0.14090	3914.8
23.3147	0.9161	-0.0258	0.91647	0.37878	187.730	11.006	0.14096	3916.8
23.1983	0.9162	-0.0221	0.91642	0.38075	188.336	11.034	0.14102	3919.2
23.0819	0.9162	-0.0184	0.91638	0.38273	188.852	11.057	0.14107	3921.4
22.9655	0.9162	-0.0148	0.91634	0.38470	189.276	11.077	0.14110	3922.7
22.8492	0.9163	-0.0111	0.91632	0.38669	189.609	11.093	0.14113	3923.9
22.7328	0.9163	-0.0074	0.91630	0.38868	189.850	11.104	0.14116	3925.0
22.6164	0.9163	-0.0037	0.91629	0.39068	189.997	11.110	0.14117	3925.5
22.5000	0.9163	0.0000	0.91628	0.39270	190.050	11.113	0.14117	3925.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.6337 ENTRPHY=41.2971
 GAMMA (AVG.)=1.1760 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6337	0.9161	-0.0359	0.91603	0.37329	251.918	11.158	0.13615	4948.6
23.5203	0.9162	-0.0323	0.91676	0.37524	253.097	11.203	0.13619	4951.3
23.4069	0.9163	-0.0287	0.91670	0.37719	254.150	11.243	0.13624	4953.7
23.2936	0.9163	-0.0251	0.91665	0.37912	255.078	11.279	0.13627	4955.8
23.1802	0.9164	-0.0216	0.91660	0.38105	255.884	11.310	0.13631	4957.4
23.0668	0.9164	-0.0180	0.91657	0.38297	256.568	11.336	0.13633	4959.0
22.9535	0.9164	-0.0144	0.91653	0.38490	257.131	11.357	0.13636	4960.3
22.8401	0.9164	-0.0108	0.91651	0.38683	257.572	11.374	0.13637	4961.2
22.7267	0.9165	-0.0072	0.91649	0.38878	257.892	11.386	0.13638	4961.9
22.6134	0.9165	-0.0036	0.91648	0.39073	258.088	11.394	0.13639	4962.3
22.5000	0.9165	0.0000	0.91647	0.39270	258.158	11.396	0.13640	4962.6

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=23.5308 ENTRPHY=43.0873
 GAMMA (AVG.)=1.1441 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.5308	0.9168	-0.0327	0.91743	0.37501	328.772	12.198	0.12825	5587.4
23.4278	0.9169	-0.0294	0.91737	0.37679	330.172	12.243	0.12829	5589.6
23.3247	0.9169	-0.0262	0.91732	0.37856	331.421	12.284	0.12832	5591.5
23.2216	0.9170	-0.0229	0.91728	0.38032	332.522	12.319	0.12835	5593.3
23.1185	0.9170	-0.0196	0.91724	0.38208	333.477	12.350	0.12838	5594.9
23.0154	0.9171	-0.0164	0.91721	0.38384	334.288	12.377	0.12840	5596.0
22.9123	0.9171	-0.0131	0.91718	0.38560	334.956	12.398	0.12842	5597.2
22.8092	0.9171	-0.0098	0.91716	0.38736	335.479	12.415	0.12844	5597.8
22.7062	0.9171	-0.0066	0.91715	0.38913	335.857	12.427	0.12845	5598.5
22.6031	0.9171	-0.0033	0.91714	0.39091	336.088	12.435	0.12845	5598.8
22.5000	0.9171	-0.0000	0.91713	0.39270	336.171	12.437	0.12846	5599.0

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3249.4 FT./SEC. ENTRAPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=34.4821 ENTRAPY=30.5342
GAMMA (AVG.)=1.3955 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4821	0.8242	-0.2576	0.86353	0.29892	3.201	2.198	0.48384	394.1
33.5339	0.8282	-0.2317	0.86002	0.31251	3.285	2.239	0.48788	397.0
32.5857	0.8318	-0.2063	0.85702	0.32557	3.358	2.274	0.49135	399.4
31.6375	0.8350	-0.1813	0.85442	0.33839	3.421	2.305	0.49437	401.6
30.6892	0.8377	-0.1563	0.85217	0.35120	3.476	2.332	0.49698	403.4
29.7410	0.8401	-0.1312	0.85024	0.36415	3.524	2.355	0.49923	405.0
28.7928	0.8420	-0.1059	0.84861	0.37740	3.565	2.374	0.50113	406.3
27.8446	0.8435	-0.0803	0.84729	0.39109	3.598	2.390	0.50268	407.3
26.8964	0.8445	-0.0542	0.84628	0.40536	3.623	2.402	0.50385	408.2
25.9482	0.8452	-0.0275	0.84563	0.42038	3.639	2.409	0.50460	408.7
25.0000	0.8454	-0.0000	0.84536	0.43633	3.645	2.412	0.50489	409.9

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRAPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.5339 ENTRAPY=30.7691
GAMMA (AVG.)=1.3888 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5339	0.8523	-0.1860	0.87234	0.33549	4.948	2.812	0.38844	476.1
30.8805	0.8543	-0.1673	0.87050	0.34558	5.049	2.853	0.39043	478.8
30.2271	0.8561	-0.1489	0.86890	0.35540	5.138	2.889	0.39215	481.2
29.5737	0.8576	-0.1306	0.86751	0.36507	5.216	2.920	0.39365	483.2
28.9203	0.8593	-0.1123	0.86631	0.37470	5.284	2.948	0.39495	485.0
28.2669	0.8601	-0.0941	0.86528	0.38439	5.342	2.971	0.39606	486.5
27.6135	0.8611	-0.0757	0.86442	0.39421	5.391	2.991	0.39699	487.7
26.9602	0.8618	-0.0572	0.86373	0.40424	5.430	3.006	0.39773	488.7
26.3068	0.8624	-0.0385	0.86322	0.41455	5.459	3.018	0.39828	489.4
25.6534	0.8627	-0.0194	0.86289	0.42522	5.478	3.025	0.39863	489.9
25.0000	0.8628	0.0000	0.86276	0.43633	5.485	3.028	0.39876	490.1

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=30.0993 ENTROPY=31.0849
GAMMA (AVG.)=1.3777 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T	IK1
30.0993	0.8651	-0.1486	0.87779	0.35525	7.195	3.375	0.33640	576.7	
29.8944	0.8664	-0.1336	0.87661	0.36340	7.317	3.417	0.33763	579.4	
29.0794	0.8675	-0.1189	0.87558	0.37137	7.424	3.453	0.33871	581.7	
28.5695	0.8685	-0.1042	0.87469	0.37923	7.519	3.485	0.33965	583.7	
28.0596	0.8693	-0.0896	0.87391	0.38707	7.601	3.513	0.34047	585.5	
27.5496	0.8700	-0.0749	0.87325	0.39493	7.672	3.536	0.34116	587.0	
27.0397	0.8706	-0.0602	0.87269	0.40287	7.731	3.556	0.34173	588.2	
26.5298	0.8711	-0.0454	0.87225	0.41093	7.778	3.572	0.34219	589.2	
26.0198	0.8714	-0.0305	0.87193	0.41916	7.813	3.583	0.34253	589.9	
25.5099	0.8716	-0.0154	0.87172	0.42761	7.835	3.591	0.34274	590.3	
25.0000	0.8716	0.0000	0.87164	0.43633	7.843	3.593	0.34282	590.5	

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.2776 ENTROPY=31.4487
GAMMA (AVG.)=1.3636 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T	IK1
29.2776	0.8722	-0.1263	0.88134	0.36716	9.940	3.871	0.30380	694.7	
28.8498	0.8731	-0.1136	0.88049	0.37413	10.087	3.913	0.30468	697.4	
28.4221	0.8739	-0.1010	0.87974	0.38096	10.216	3.950	0.30545	699.8	
27.9943	0.8746	-0.0885	0.87908	0.38771	10.330	3.982	0.30612	701.9	
27.5666	0.8752	-0.0761	0.87852	0.39444	10.429	4.010	0.30670	703.7	
27.1388	0.8757	-0.0636	0.87804	0.40118	10.514	4.034	0.30719	705.2	
26.7110	0.8762	-0.0511	0.87764	0.40797	10.585	4.054	0.30760	706.4	
26.2833	0.8765	-0.0385	0.87732	0.41485	10.641	4.070	0.30793	707.4	
25.8555	0.8767	-0.0258	0.87709	0.42184	10.682	4.081	0.30816	708.2	
25.4278	0.8768	-0.0130	0.87694	0.42899	10.708	4.088	0.30831	708.6	
25.0000	0.8769	0.0000	0.87688	0.43633	10.717	4.091	0.30837	708.8	

CRME SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.3867 ENTRPHY=32.2341
GAMMA (AVG.)=1.3362 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.3867	0.8797	-0.1015	0.88558	0.38058	16.928	4.684	0.26531	977.8
28.0400	0.8803	-0.0913	0.88503	0.38620	17.133	4.726	0.26586	980.8
27.7093	0.8808	-0.0812	0.88455	0.39173	17.314	4.764	0.26635	983.4
27.3707	0.8813	-0.0711	0.88412	0.39722	17.474	4.797	0.26678	985.6
27.0320	0.8816	-0.0610	0.88375	0.40268	17.613	4.825	0.26715	987.6
26.6933	0.8820	-0.0510	0.88344	0.40814	17.731	4.849	0.26746	989.3
26.3547	0.8822	-0.0409	0.88318	0.41363	17.829	4.869	0.26772	990.6
26.0160	0.8824	-0.0308	0.88298	0.41917	17.907	4.885	0.26793	991.7
25.6773	0.8826	-0.0206	0.88283	0.42479	17.964	4.897	0.26807	992.5
25.3387	0.8827	-0.0104	0.88273	0.43050	18.000	4.904	0.26817	993.0
25.0000	0.8827	0.0000	0.88270	0.43633	18.012	4.907	0.26820	993.2

CRME SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=27.9176 ENTRPHY=33.0263
GAMMA (AVG.)=1.3169 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.9176	0.8836	-0.0881	0.88800	0.38786	25.916	5.313	0.24304	1319.5
27.5259	0.8840	-0.0793	0.88758	0.39275	26.188	5.356	0.24406	1322.9
27.1341	0.8844	-0.0705	0.88721	0.39757	26.431	5.394	0.24443	1325.8
27.0423	0.8847	-0.0617	0.88689	0.40235	26.645	5.427	0.24475	1328.4
26.7506	0.8850	-0.0530	0.88661	0.40711	26.831	5.456	0.24503	1330.6
26.4588	0.8853	-0.0442	0.88638	0.41188	26.990	5.480	0.24527	1332.5
26.1670	0.8855	-0.0355	0.88618	0.41666	27.122	5.500	0.24546	1334.1
25.8753	0.8856	-0.0267	0.88603	0.42148	27.225	5.516	0.24561	1335.3
25.5835	0.8857	-0.0179	0.88592	0.42635	27.301	5.528	0.24573	1336.2
25.2918	0.8858	-0.0090	0.88584	0.43130	27.348	5.535	0.24579	1336.8
25.0000	0.8858	0.0000	0.88587	0.43633	27.365	5.538	0.24582	1337.0

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=27.6335 ENTROPY=33.7899
GAMMA (AVG.)=1.3052 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.6335	0.8859	-0.0799	0.88952	0.39235	36.897	5.805	0.23011	1719.8
27.3702	0.8863	-0.0719	0.88918	0.39678	37.252	5.847	0.23045	1723.7
27.1068	0.8866	-0.0639	0.88888	0.40116	37.568	5.885	0.23075	1727.1
26.8435	0.8869	-0.0559	0.88861	0.40551	37.845	5.919	0.23102	1730.0
26.5801	0.8871	-0.0480	0.88839	0.40984	38.087	5.947	0.23125	1732.6
26.3168	0.8873	-0.0401	0.88819	0.41417	38.292	5.972	0.23145	1734.8
26.0534	0.8874	-0.0321	0.88803	0.41851	38.462	5.992	0.23161	1736.6
25.7901	0.8876	-0.0242	0.88790	0.42289	38.597	6.008	0.23173	1738.0
25.5267	0.8877	-0.0162	0.88781	0.42731	38.695	6.020	0.23183	1739.0
25.2633	0.8877	-0.0081	0.88775	0.43178	38.755	6.027	0.23188	1739.7
25.0000	0.8877	0.0000	0.88773	0.43633	38.777	6.030	0.23190	1739.9

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=27.4473 ENTROPY=34.5125
GAMMA (AVG.)=1.2983 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.4473	0.8874	-0.0745	0.89055	0.39532	49.879	6.189	0.22108	2180.5
27.2026	0.8877	-0.0670	0.89025	0.39945	50.326	6.232	0.22138	2185.0
26.9578	0.8880	-0.0596	0.88999	0.40354	50.724	6.270	0.22164	2188.9
26.7131	0.8882	-0.0521	0.88976	0.40760	51.075	6.303	0.22188	2192.4
26.4684	0.8884	-0.0447	0.88956	0.41164	51.380	6.332	0.22208	2195.4
26.2236	0.8886	-0.0373	0.88939	0.41568	51.639	6.357	0.22225	2197.9
25.9789	0.8887	-0.0299	0.88925	0.41974	51.854	6.377	0.22239	2200.0
25.7342	0.8889	-0.0225	0.88914	0.42382	52.023	6.393	0.22250	2201.7
25.4894	0.8889	-0.0151	0.88906	0.42793	52.146	6.405	0.22258	2202.9
25.2447	0.8890	-0.0076	0.88901	0.43210	52.222	6.412	0.22263	2203.6
25.0000	0.8890	0.0000	0.88899	0.43633	52.250	6.414	0.22265	2203.9

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 50 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=27.1648 ENTRØPY=35.2800
GAMMA (AVG.)=1.1353 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
27.1648	0.8897	-0.0664	0.89217	0.39965	64.844	6.878	0.19496	2518.9
26.9483	0.8899	-0.0597	0.89193	0.40339	65.368	6.927	0.19509	2521.0
26.7319	0.8901	-0.0530	0.89172	0.40707	65.833	6.970	0.19522	2523.0
26.5154	0.8903	-0.0464	0.89153	0.41072	66.241	7.007	0.19532	2524.7
26.2989	0.8905	-0.0398	0.89137	0.41435	66.595	7.040	0.19542	2526.2
26.0824	0.8906	-0.0332	0.89124	0.41797	66.895	7.068	0.19550	2527.2
25.8659	0.8907	-0.0266	0.89113	0.42159	67.143	7.091	0.19556	2528.3
25.6444	0.8908	-0.0200	0.89104	0.42523	67.338	7.108	0.19561	2529.2
25.4330	0.8909	-0.0134	0.89098	0.42889	67.479	7.122	0.19565	2529.6
25.2165	0.8909	-0.0067	0.89094	0.43259	67.566	7.130	0.19567	2529.9
25.0000	0.8909	0.0000	0.89092	0.43634	67.598	7.132	0.19567	2530.3

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.8750 ENTRØPY=36.0087
GAMMA (AVG.)=1.1216 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.8750	0.8920	-0.0577	0.89386	0.40443	81.853	7.830	0.18085	2730.1
26.6875	0.8922	-0.0519	0.89368	0.40767	82.423	7.878	0.18096	2732.0
26.5000	0.8923	-0.0461	0.89352	0.41087	82.930	7.920	0.18107	2733.8
26.3125	0.8925	-0.0404	0.89338	0.41405	83.375	7.957	0.18116	2735.4
26.1250	0.8926	-0.0346	0.89326	0.41721	83.761	7.989	0.18124	2736.8
25.9375	0.8927	-0.0289	0.89316	0.42036	84.089	8.017	0.18130	2737.8
25.7500	0.8928	-0.0231	0.89307	0.42352	84.359	8.039	0.18135	2738.9
25.5625	0.8928	-0.0174	0.89301	0.42668	84.571	8.057	0.18140	2739.6
25.3750	0.8929	-0.0116	0.89296	0.42987	84.724	8.070	0.18143	2739.9
25.1875	0.8929	-0.0058	0.89293	0.43308	84.819	8.077	0.18145	2740.3
25.0000	0.8929	-0.0000	0.89292	0.43633	84.853	8.081	0.18145	2740.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.6566 ENTRØPY=36.7394
GAMMA (AVG.)=1.1266 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.6566	0.8937	-0.0512	0.89517	0.40807	100.866	8.771	0.17072	2930.2
26.4909	0.8938	-0.0460	0.89503	0.41094	101.483	8.817	0.17083	2932.1
26.3253	0.8940	-0.0409	0.89491	0.41377	102.032	8.859	0.17091	2933.8
26.1596	0.8941	-0.0358	0.89480	0.41659	102.515	8.896	0.17099	2935.1
25.9940	0.8942	-0.0307	0.89470	0.41939	102.934	8.927	0.17107	2936.6
25.8283	0.8943	-0.0256	0.89462	0.42218	103.290	8.954	0.17113	2937.5
25.6626	0.8943	-0.0205	0.89456	0.42498	103.583	8.977	0.17117	2938.2
25.4970	0.8944	-0.0154	0.89450	0.42779	103.813	8.994	0.17121	2938.8
25.3313	0.8944	-0.0103	0.89447	0.43061	103.980	9.007	0.17124	2939.4
25.1656	0.8944	-0.0052	0.89444	0.43346	104.082	9.014	0.17126	2939.7
25.0000	0.8944	-0.0000	0.89443	0.43633	104.119	9.017	0.17126	2939.7

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.4958 ENTRØPY=37.4767
GAMMA (AVG.)=1.1464 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.4958	0.8950	-0.0463	0.89616	0.41078	121.876	9.641	0.16389	3134.5
26.3462	0.8951	-0.0416	0.89605	0.41336	122.546	9.687	0.16398	3136.2
26.1966	0.8952	-0.0370	0.89594	0.41592	123.143	9.727	0.16407	3138.1
26.0470	0.8953	-0.0324	0.89585	0.41846	123.669	9.763	0.16414	3139.5
25.8974	0.8953	-0.0278	0.89578	0.42100	124.125	9.794	0.16421	3140.8
25.7479	0.8954	-0.0232	0.89571	0.42353	124.512	9.821	0.16426	3141.8
25.5983	0.8955	-0.0185	0.89566	0.42607	124.831	9.843	0.16430	3142.6
25.4487	0.8955	-0.0139	0.89561	0.42861	125.081	9.860	0.16435	3143.2
25.2991	0.8955	-0.0093	0.89558	0.43116	125.262	9.871	0.16437	3144.0
25.1496	0.8956	-0.0047	0.89556	0.43373	125.374	9.880	0.16439	3144.0
25.0000	0.8956	-0.0000	0.89556	0.43633	125.414	9.882	0.16439	3144.4

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.3848 ENTRØPY=38.2258
GAMMA (AVG.)=1.1765 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.3848	0.8958	-0.0429	0.89685	0.41266	144.885	10.361	0.15990	3368.3
26.2463	0.8959	-0.0386	0.89676	0.41505	145.619	10.406	0.16000	3370.3
26.1078	0.8960	-0.0343	0.89667	0.41741	146.274	10.446	0.16008	3371.9
25.9694	0.8961	-0.0300	0.89659	0.41977	146.851	10.481	0.16015	3373.7
25.8309	0.8962	-0.0257	0.89653	0.42212	147.352	10.511	0.16021	3375.0
25.6924	0.8962	-0.0215	0.89647	0.42447	147.778	10.537	0.16027	3376.2
25.5539	0.8963	-0.0172	0.89642	0.42682	148.128	10.558	0.16031	3377.3
25.4154	0.8963	-0.0129	0.89639	0.42917	148.403	10.575	0.16035	3378.0
25.2769	0.8963	-0.0086	0.89636	0.43154	148.602	10.588	0.16037	3378.3
25.1385	0.8963	-0.0043	0.89634	0.43393	148.724	10.595	0.16039	3378.9
25.0000	0.8963	-0.0000	0.89634	0.43633	148.768	10.597	0.16040	3379.2

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NØ.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.3212 ENTRØPY=38.9937
GAMMA (AVG.)=1.2105 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.3212	0.8963	-0.0409	0.89726	0.41375	169.888	10.831	0.15849	3667.4
26.1891	0.8964	-0.0368	0.89717	0.41602	170.707	10.875	0.15859	3669.4
26.0569	0.8965	-0.0327	0.89709	0.41828	171.438	10.913	0.15867	3671.9
25.9248	0.8966	-0.0287	0.89702	0.42052	172.083	10.947	0.15875	3674.0
25.7927	0.8966	-0.0246	0.89696	0.42277	172.642	10.976	0.15881	3675.6
25.6606	0.8967	-0.0205	0.89690	0.42501	173.118	11.001	0.15886	3677.2
25.5285	0.8967	-0.0164	0.89686	0.42725	173.509	11.022	0.15881	3678.3
25.3963	0.8967	-0.0123	0.89683	0.42950	173.816	11.038	0.15895	3679.1
25.2642	0.8968	-0.0082	0.89680	0.43176	174.039	11.050	0.15897	3679.8
25.1321	0.8968	-0.0041	0.89679	0.43404	174.175	11.058	0.15898	3680.1
25.0000	0.8968	0.0000	0.89678	0.43633	174.224	11.059	0.15899	3680.6

CONE SEMI-ANGLE=25.0
 FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 30290.6 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.3610 ENTRPHY=39.9344
 GAMMA (AVG.)=1.2255 STAG. ENTHALPHY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3610	0.8960	-0.0421	0.89700	0.41309	196.864	10.537	0.16173	4218.6
26.2249	0.8961	-0.0379	0.89691	0.41543	197.842	10.579	0.16182	4222.6
26.0888	0.8962	-0.0337	0.89682	0.41775	198.715	10.615	0.16191	4226.1
25.9527	0.8963	-0.0295	0.89675	0.42006	199.485	10.648	0.16199	4229.1
25.8166	0.8963	-0.0253	0.89669	0.42237	200.153	10.676	0.16205	4231.7
25.6805	0.8964	-0.0211	0.89663	0.42467	200.721	10.699	0.16211	4234.0
25.5444	0.8964	-0.0169	0.89659	0.42698	201.188	10.719	0.16216	4235.7
25.4083	0.8965	-0.0127	0.89655	0.42930	201.555	10.735	0.16219	4237.2
25.2722	0.8965	-0.0085	0.89653	0.43163	201.821	10.746	0.16222	4238.1
25.1361	0.8965	-0.0042	0.89651	0.43397	201.984	10.753	0.16223	4238.9
25.0000	0.8965	0.0000	0.89650	0.43633	202.042	10.755	0.16224	4239.0

CONE SEMI-ANGLE=25.0
 FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.3327 ENTRPHY=40.6986
 GAMMA (AVG.)=1.1979 STAG. ENTHALPHY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3327	0.8962	-0.0413	0.89718	0.41355	225.844	10.742	0.15828	4663.5
26.1994	0.8963	-0.0372	0.89709	0.41584	226.945	10.787	0.15834	4666.5
26.0661	0.8964	-0.0330	0.89701	0.41812	227.927	10.826	0.15839	4669.3
25.9329	0.8965	-0.0289	0.89694	0.42039	228.794	10.862	0.15844	4671.7
25.7996	0.8965	-0.0246	0.89688	0.42265	229.546	10.892	0.15848	4673.7
25.6663	0.8966	-0.0207	0.89683	0.42491	230.185	10.918	0.15851	4675.4
25.5331	0.8966	-0.0166	0.89678	0.42717	230.711	10.940	0.15854	4676.8
25.3998	0.8967	-0.0124	0.89675	0.42944	231.124	10.957	0.15856	4678.0
25.2665	0.8967	-0.0083	0.89672	0.43172	231.423	10.969	0.15858	4678.8
25.1333	0.8967	-0.0042	0.89671	0.43402	231.606	10.976	0.15859	4679.3
25.0000	0.8967	-0.0000	0.89670	0.43633	231.672	10.979	0.15859	4679.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.1930 ENTRØPY=42.5980
GAMMA (AVG.)=1.1506 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMØ	MU	T (K)
26.1930	0.8973	-0.0371	0.89808	0.41587	307.077	11.909	0.14699	5433.3
26.0737	0.8974	-0.0333	0.89800	0.41793	308.418	11.954	0.14704	5435.7
25.9544	0.8974	-0.0296	0.89794	0.41998	309.615	11.995	0.14709	5437.6
25.8351	0.8975	-0.0259	0.89788	0.42202	310.670	12.030	0.14712	5439.6
25.7158	0.8976	-0.0222	0.89783	0.42405	311.586	12.061	0.14716	5441.2
25.5965	0.8976	-0.0185	0.89779	0.42608	312.363	12.087	0.14719	5442.5
25.4772	0.8976	-0.0149	0.89775	0.42812	313.003	12.109	0.14721	5443.5
25.3579	0.8977	-0.0112	0.89773	0.43016	313.504	12.126	0.14723	5444.4
25.2386	0.8977	-0.0074	0.89771	0.43220	313.867	12.138	0.14724	5445.0
25.1193	0.8977	-0.0037	0.89769	0.43426	314.089	12.146	0.14725	5445.4
25.0000	0.8977	0.0000	0.89769	0.43633	314.168	12.148	0.14725	5445.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=26.0760 ENTRØPY=44.6346
GAMMA (AVG.)=1.1320 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMØ	MU	T (K)
26.0760	0.8982	-0.0335	0.89884	0.41784	400.824	13.123	0.13867	5994.2
25.9684	0.8983	-0.0301	0.89878	0.41970	402.402	13.168	0.13871	5996.1
25.8608	0.8983	-0.0268	0.89872	0.42155	403.809	13.209	0.13875	5997.9
25.7532	0.8984	-0.0234	0.89867	0.42340	405.050	13.245	0.13878	5999.5
25.6456	0.8984	-0.0201	0.89863	0.42524	406.127	13.276	0.13881	6000.8
25.5380	0.8984	-0.0168	0.89860	0.42707	407.041	13.302	0.13883	6001.9
25.4304	0.8985	-0.0134	0.89857	0.42891	407.793	13.323	0.13885	6003.0
25.3228	0.8985	-0.0101	0.89855	0.43075	408.382	13.340	0.13887	6003.7
25.2152	0.8985	-0.0067	0.89853	0.43260	408.807	13.353	0.13888	6004.1
25.1076	0.8985	-0.0034	0.89852	0.43446	409.068	13.360	0.13889	6004.3
25.0000	0.8985	-0.0000	0.89852	0.43633	409.161	13.363	0.13889	6004.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.0719 SHOCK ANGLE=34.1707 ENTRØPY=30.5914 ENTRØPY=30.8604
GAMMA (AVG.)=1.3940 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ. GAMMA (AVG.)=1.3851 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
37.0719	0.7978	-0.2536	0.83713	0.33924	3.652	2.377	0.51511	415.8
36.1147	0.8018	-0.2282	0.83361	0.35307	3.741	2.418	0.51938	418.6
35.1575	0.8053	-0.2032	0.83057	0.36646	3.817	2.453	0.52307	421.0
34.2003	0.8085	-0.1785	0.82794	0.37966	3.885	2.484	0.52628	423.1
33.2431	0.8112	-0.1538	0.82566	0.39286	3.943	2.511	0.52908	424.9
32.2859	0.8135	-0.1290	0.82370	0.40622	3.994	2.534	0.53149	426.4
31.3287	0.8154	-0.1041	0.82205	0.41986	4.037	2.554	0.53352	427.7
30.3715	0.8169	-0.0788	0.82072	0.43391	4.072	2.569	0.53516	428.7
29.4144	0.8180	-0.0531	0.81971	0.44851	4.098	2.581	0.53640	429.5
28.4572	0.8186	-0.0269	0.81905	0.46381	4.115	2.589	0.53719	430.0
27.5000	0.8188	0.0000	0.81879	0.47997	4.121	2.592	0.53749	430.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=34.1707 SHOCK ANGLE=34.1707 ENTRØPY=30.8604 ENTRØPY=30.8604
GAMMA (AVG.)=1.3851 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ. GAMMA (AVG.)=1.3851 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.1707	0.8273	-0.1853	0.84781	0.37609	5.735	3.032	0.41339	511.9
33.5036	0.8293	-0.1666	0.84592	0.38645	5.844	3.073	0.41747	514.5
32.8366	0.8312	-0.1483	0.84428	0.39656	5.939	3.109	0.41929	516.9
32.1695	0.8328	-0.1300	0.84295	0.40655	6.023	3.141	0.42088	518.9
31.5024	0.8341	-0.1119	0.84161	0.41652	6.096	3.168	0.42225	520.6
30.8353	0.8353	-0.0936	0.84055	0.42654	6.159	3.191	0.42342	522.1
30.1683	0.8363	-0.0753	0.83967	0.43668	6.211	3.211	0.42440	523.3
29.5012	0.8370	-0.0569	0.83896	0.44703	6.253	3.227	0.42518	524.3
28.8341	0.8376	-0.0382	0.83843	0.45764	6.285	3.238	0.42576	525.1
28.1670	0.8379	-0.0193	0.83809	0.46859	6.304	3.246	0.42613	525.5
27.5000	0.8380	0.0000	0.83796	0.47997	6.312	3.249	0.42626	525.7

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=32.7666 ENTROPY=31.2508
GAMMA (AVG.)=1.3713 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.7666	0.8408	-0.1497	0.85407	0.39572	8.417	3.616	0.36154	629.8
32.2400	0.8421	-0.1346	0.85284	0.40416	8.550	3.657	0.36284	632.5
31.7133	0.8433	-0.1198	0.85176	0.41244	8.667	3.694	0.36398	634.8
31.1866	0.8443	-0.1050	0.85082	0.42063	8.770	3.726	0.36498	636.9
30.6600	0.8452	-0.0902	0.85000	0.42880	8.860	3.754	0.36584	638.6
30.1333	0.8459	-0.0754	0.84930	0.43699	8.937	3.777	0.36658	640.1
29.6066	0.8466	-0.0606	0.84873	0.44525	9.001	3.797	0.36719	641.4
29.0800	0.8470	-0.0457	0.84827	0.45363	9.053	3.813	0.36767	642.4
28.5533	0.8474	-0.0307	0.84793	0.46218	9.090	3.825	0.36802	643.1
28.0266	0.8476	-0.0154	0.84771	0.47094	9.114	3.832	0.36825	643.5
27.5000	0.8476	0.0000	0.84763	0.47997	9.123	3.834	0.36833	643.7

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.9574 ENTROPY=31.6639
GAMMA (AVG.)=1.3554 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9594	0.8484	-0.1284	0.85807	0.40754	11.694	4.121	0.32789	767.8
31.5134	0.8493	-0.1155	0.85716	0.41481	11.856	4.163	0.32882	770.6
31.0675	0.8502	-0.1027	0.85637	0.42197	11.998	4.200	0.32964	773.0
30.6215	0.8509	-0.0900	0.85567	0.42905	12.124	4.232	0.33036	775.1
30.1756	0.8516	-0.0773	0.85506	0.43611	12.234	4.260	0.33098	776.9
29.7297	0.8521	-0.0646	0.85455	0.44318	12.327	4.284	0.33150	778.5
29.2837	0.8525	-0.0519	0.85413	0.45030	12.405	4.304	0.33194	779.8
28.8378	0.8529	-0.0391	0.85379	0.45751	12.467	4.320	0.33229	780.8
28.3918	0.8531	-0.0262	0.85354	0.46483	12.512	4.332	0.33254	781.5
27.9459	0.8533	-0.0132	0.85338	0.47230	12.540	4.339	0.33270	782.0
27.5000	0.8533	0.0000	0.85332	0.47997	12.551	4.341	0.33275	782.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 8654.5 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=31.0771 ENTRØPY=32.5308
 GAMMA (AVG.)=1.3280 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.0771	0.8565	-0.1046	0.86282	0.42091	20.038	4.937	0.28030	1098.2
30.7194	0.8571	-0.0940	0.86222	0.42686	20.267	4.979	0.28090	1101.3
30.3617	0.8576	-0.0836	0.86169	0.43272	20.470	5.017	0.28043	1104.0
30.0040	0.8581	-0.0732	0.86122	0.43853	20.649	5.050	0.28089	1106.4
29.6463	0.8585	-0.0629	0.86082	0.44432	20.805	5.078	0.29029	1108.4
29.2885	0.8589	-0.0525	0.86048	0.45011	20.937	5.103	0.29063	1110.2
28.9308	0.8592	-0.0421	0.86020	0.45594	21.047	5.123	0.29091	1111.6
28.5731	0.8594	-0.0317	0.85998	0.46181	21.134	5.139	0.29113	1112.7
28.2154	0.8595	-0.0212	0.85981	0.46776	21.198	5.150	0.29130	1113.6
27.8577	0.8596	-0.0107	0.85971	0.47380	21.238	5.158	0.29140	1114.1
27.5000	0.8597	0.0000	0.85967	0.47997	21.252	5.160	0.29143	1114.3

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 10818.1 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=30.6111 ENTRØPY=33.3857
 GAMMA (AVG.)=1.3108 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
30.6111	0.8606	-0.0916	0.86550	0.42819	30.768	5.557	0.26623	1498.1
30.3000	0.8611	-0.0824	0.86504	0.43340	31.078	5.599	0.26669	1501.7
29.9888	0.8615	-0.0733	0.86463	0.43855	31.353	5.637	0.26709	1504.8
29.6777	0.8619	-0.0642	0.86427	0.44366	31.596	5.670	0.26745	1507.6
29.3666	0.8622	-0.0551	0.86396	0.44875	31.807	5.699	0.26775	1509.9
29.0555	0.8625	-0.0460	0.86370	0.45385	31.986	5.724	0.26801	1512.0
28.7444	0.8627	-0.0369	0.86349	0.45896	32.135	5.744	0.26823	1513.6
28.4333	0.8629	-0.0277	0.86331	0.46411	32.253	5.760	0.26840	1514.9
28.1222	0.8630	-0.0186	0.86319	0.46931	32.338	5.772	0.26852	1515.9
27.8111	0.8631	-0.0093	0.86311	0.47459	32.391	5.779	0.26859	1516.5
27.5000	0.8631	0.0000	0.86308	0.47997	32.411	5.782	0.26862	1516.7

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF

DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K

VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

SHOCK ANGLE=30.3300 ENTROPY=34.1979

FLW PROPERTIES

GAMMA (AVG.)=1.3009 STAG. ENTHALPHY=8.7187E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=30.0519 ENTROPY=35.0221

GAMMA (AVG.)=1.1498 STAG. ENTHALPHY=1.1762E 08 FT. SQ./SEC. SQ.

FLW PROPERTIES

SHOCK ANGLE=30.0519 ENTROPY=35.0221

GAMMA (AVG.)=1.1498 STAG. ENTHALPHY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.1300	0.8631	-0.0837	0.86718	0.43264	43.884	6.030	0.25258	1988.9	30.0519	0.8656	-0.0761	0.86890	0.43683	59.361	6.582	0.22575	2429.4
30.0470	0.8635	-0.0753	0.86679	0.43741	44.288	6.073	0.25297	1973.1	29.7967	0.8659	-0.0684	0.86858	0.44122	59.865	6.629	0.22593	2432.3
29.7640	0.8639	-0.0670	0.86645	0.44212	44.548	6.111	0.25331	1976.8	29.5415	0.8662	-0.0608	0.86830	0.44555	60.311	6.672	0.22610	2434.6
29.4810	0.8642	-0.0586	0.86615	0.44680	44.966	6.144	0.25360	1980.0	29.2863	0.8664	-0.0532	0.86805	0.44984	60.704	6.708	0.22623	2436.8
29.1980	0.8644	-0.0503	0.86590	0.45146	45.241	6.173	0.25386	1982.8	29.0312	0.8666	-0.0456	0.86784	0.45410	61.044	6.740	0.22636	2438.7
28.9150	0.8647	-0.0420	0.86568	0.45612	45.476	6.198	0.25407	1985.2	28.7760	0.8668	-0.0381	0.86766	0.45835	61.333	6.767	0.22646	2440.4
28.6320	0.8648	-0.0337	0.86545	0.46080	45.670	6.218	0.25425	1987.2	28.5208	0.8670	-0.0305	0.86751	0.46261	61.571	6.789	0.22654	2441.7
28.3490	0.8650	-0.0253	0.86535	0.46551	45.823	6.234	0.25439	1988.7	28.2656	0.8671	-0.0229	0.86739	0.46689	61.759	6.807	0.22661	2442.6
28.0660	0.8651	-0.0169	0.86525	0.47026	45.935	6.246	0.25450	1989.8	28.0104	0.8672	-0.0153	0.86730	0.47119	61.895	6.819	0.22666	2443.4
27.7830	0.8651	-0.0085	0.86518	0.47507	46.004	6.253	0.25456	1990.5	27.7552	0.8672	-0.0077	0.86725	0.47555	61.979	6.827	0.22669	2443.9
27.5000	0.8652	0.0000	0.86516	0.47997	46.029	6.256	0.25458	1990.7	27.5000	0.8672	-0.0000	0.86723	0.47996	62.010	6.830	0.22671	2444.0

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.6773 ENTRØPY=35.8206
 GAMMA (AVG.)=1.1233 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.6773	0.8688	-0.0653	0.87127	0.44296	77.272	7.584	0.20658	2676.7
29.4596	0.8691	-0.0587	0.87104	0.44672	77.830	7.632	0.20673	2678.5
29.2419	0.8693	-0.0522	0.87083	0.45044	78.326	7.675	0.20685	2680.3
29.0241	0.8694	-0.0456	0.87065	0.45412	78.762	7.711	0.20697	2682.0
28.8064	0.8695	-0.0391	0.87049	0.45778	79.140	7.744	0.20706	2683.3
28.5887	0.8697	-0.0327	0.87035	0.46144	79.460	7.771	0.20715	2684.6
28.3709	0.8699	-0.0262	0.87024	0.46510	79.724	7.794	0.20722	2685.4
28.1532	0.8699	-0.0197	0.87016	0.46877	79.932	7.812	0.20727	2686.1
27.9355	0.8700	-0.0131	0.87009	0.47246	80.083	7.824	0.20730	2686.7
27.7177	0.8700	-0.0066	0.87005	0.47619	80.175	7.833	0.20733	2686.9
27.5000	0.8700	-0.0000	0.87004	0.47996	80.209	7.836	0.20733	2687.0

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.3918 ENTRØPY=36.6181
 GAMMA (AVG.)=1.1247 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.3918	0.8713	-0.0569	0.87314	0.44771	97.578	8.618	0.19308	2897.4
29.2026	0.8715	-0.0512	0.87296	0.45098	98.187	8.665	0.19319	2899.4
29.0135	0.8716	-0.0455	0.87280	0.45422	98.729	8.706	0.19331	2901.2
28.8243	0.8718	-0.0398	0.87266	0.45743	99.206	8.743	0.19340	2902.3
28.6351	0.8719	-0.0342	0.87254	0.46062	99.619	8.775	0.19349	2903.6
28.4459	0.8720	-0.0285	0.87244	0.46382	99.970	8.802	0.19356	2904.7
28.2567	0.8721	-0.0228	0.87236	0.46701	100.259	8.824	0.19362	2905.5
28.0675	0.8721	-0.0171	0.87229	0.47021	100.486	8.841	0.19365	2906.4
27.8784	0.8722	-0.0115	0.87224	0.47343	100.651	8.854	0.19370	2906.9
27.6892	0.8722	-0.0057	0.87221	0.47668	100.752	8.862	0.19372	2907.0
27.5000	0.8722	-0.0000	0.87220	0.47996	100.788	8.864	0.19372	2907.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.1861 ENTROPY=37.4223
GAMMA (AVG.)=1.1446 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.1861	0.8730	-0.0509	0.87452	0.45117	120.271	9.582	0.18416	3118.5
29.0175	0.8732	-0.0458	0.87438	0.45408	120.937	9.627	0.18427	3120.5
28.8484	0.8733	-0.0407	0.87425	0.45696	121.530	9.668	0.18437	3122.2
28.6803	0.8734	-0.0356	0.87414	0.45983	122.052	9.704	0.18446	3123.7
28.5117	0.8735	-0.0305	0.87404	0.46268	122.505	9.736	0.18454	3124.9
28.3431	0.8736	-0.0255	0.87396	0.46554	122.890	9.762	0.18461	3126.0
28.1744	0.8737	-0.0204	0.87390	0.46839	123.207	9.783	0.18466	3127.1
28.0058	0.8737	-0.0153	0.87384	0.47126	123.455	9.800	0.18470	3127.6
27.8372	0.8737	-0.0102	0.87380	0.47414	123.635	9.813	0.18473	3128.2
27.6686	0.8738	-0.0051	0.87374	0.47704	123.746	9.820	0.18475	3128.4
27.5000	0.8738	-0.0000	0.87377	0.47996	123.786	9.823	0.18475	3128.5

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.0487 ENTROPY=38.2404
GAMMA (AVG.)=1.1770 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0487	0.8742	-0.0468	0.87546	0.45350	145.352	10.373	0.17912	3373.3
28.8938	0.8743	-0.0421	0.87534	0.45617	146.087	10.418	0.17924	3375.3
28.7390	0.8744	-0.0374	0.87523	0.45882	146.743	10.458	0.17934	3377.2
28.5841	0.8745	-0.0328	0.87514	0.46145	147.322	10.493	0.17942	3378.7
28.4292	0.8746	-0.0281	0.87506	0.46408	147.824	10.523	0.17950	3380.2
28.2744	0.8747	-0.0234	0.87499	0.46670	148.250	10.549	0.17956	3381.4
28.1195	0.8747	-0.0188	0.87493	0.46933	148.601	10.570	0.17962	3382.5
27.9646	0.8748	-0.0141	0.87489	0.47197	148.876	10.587	0.17965	3383.0
27.8097	0.8748	-0.0094	0.87485	0.47461	149.076	10.598	0.17968	3383.9
27.6549	0.8748	-0.0047	0.87483	0.47728	149.198	10.606	0.17969	3383.9
27.5000	0.8748	0.0000	0.87483	0.47997	149.242	10.609	0.17971	3384.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25023.4 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.9747 ENTRPHY=39.0813
GAMMA (AVG.)=1.2141 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9747	0.8748	-0.0446	0.87597	0.45476	172.811	10.861	0.17759	3707.7
28.8273	0.8749	-0.0401	0.87586	0.45730	173.642	10.904	0.17770	3710.2
28.6798	0.8750	-0.0357	0.87576	0.45981	174.383	10.942	0.17781	3712.4
28.5323	0.8751	-0.0312	0.87568	0.46232	175.036	10.976	0.17789	3714.5
28.3848	0.8752	-0.0268	0.87560	0.46482	175.604	11.005	0.17797	3716.4
28.2374	0.8753	-0.0223	0.87554	0.46732	176.086	11.029	0.17803	3718.1
28.0899	0.8753	-0.0179	0.87549	0.46983	176.483	11.050	0.17807	3719.4
27.9424	0.8753	-0.0134	0.87545	0.47234	176.794	11.067	0.17812	3720.0
27.7949	0.8754	-0.0090	0.87542	0.47486	177.020	11.078	0.17815	3720.6
27.6475	0.8754	-0.0045	0.87540	0.47740	177.158	11.085	0.17817	3721.4
27.5000	0.8754	0.0000	0.87539	0.47997	177.208	11.088	0.17817	3721.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=29.0353 ENTRPHY=40.1301
GAMMA (AVG.)=1.2239 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0353	0.8743	-0.0464	0.87555	0.45376	202.629	10.463	0.18177	4344.3
28.8818	0.8744	-0.0417	0.87543	0.45639	203.644	10.506	0.18187	4347.8
28.7282	0.8745	-0.0371	0.87533	0.45901	204.550	10.543	0.18196	4351.1
28.5747	0.8746	-0.0325	0.87524	0.46161	205.349	10.577	0.18204	4353.8
28.4212	0.8747	-0.0278	0.87516	0.46422	206.043	10.606	0.18211	4356.1
28.2676	0.8748	-0.0232	0.87509	0.46682	206.632	10.631	0.18217	4358.1
28.1141	0.8748	-0.0186	0.87503	0.46942	207.117	10.651	0.18222	4359.8
27.9606	0.8749	-0.0140	0.87499	0.47203	207.498	10.667	0.18225	4361.1
27.8071	0.8749	-0.0093	0.87496	0.47466	207.774	10.679	0.18228	4362.0
27.6535	0.8749	-0.0047	0.87494	0.47730	207.943	10.686	0.18229	4362.4
27.5000	0.8749	-0.0000	0.87493	0.47996	208.004	10.688	0.18230	4362.8

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.9690 ENTRØPY=40.8972
GAMMA (AVG.)=1.1888 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
28.9690	0.8749	-0.0444	0.87601	0.45484	234.848	10.897	0.17534	4767.2
28.8221	0.8750	-0.0400	0.87590	0.45737	235.975	10.942	0.17541	4770.1
28.6752	0.8751	-0.0355	0.87581	0.45988	236.981	10.982	0.17547	4772.6
28.5283	0.8752	-0.0311	0.87572	0.46238	237.869	11.017	0.17552	4774.8
28.3814	0.8752	-0.0267	0.87565	0.46488	238.639	11.048	0.17557	4776.8
28.2345	0.8753	-0.0222	0.87559	0.46737	239.294	11.074	0.17561	4778.4
28.0876	0.8754	-0.0178	0.87553	0.46987	239.832	11.095	0.17564	4779.8
27.9407	0.8754	-0.0134	0.87549	0.47237	240.255	11.112	0.17567	4780.8
27.7938	0.8754	-0.0089	0.87546	0.47488	240.560	11.124	0.17569	4781.6
27.6469	0.8754	-0.0045	0.87545	0.47741	240.748	11.132	0.17570	4782.0
27.5000	0.8754	-0.0000	0.87544	0.47997	240.815	11.134	0.17570	4782.3

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.8990 ENTRØPY=41.7182
GAMMA (AVG.)=1.1661 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
28.8990	0.8755	-0.0424	0.87650	0.45601	269.460	11.402	0.16956	5119.0
28.7591	0.8756	-0.0381	0.87640	0.45842	270.693	11.446	0.16963	5121.6
28.6192	0.8757	-0.0339	0.87631	0.46082	271.793	11.487	0.16968	5123.7
28.4793	0.8757	-0.0297	0.87623	0.46320	272.763	11.522	0.16973	5125.6
28.3394	0.8758	-0.0254	0.87617	0.46558	273.605	11.553	0.16978	5127.3
28.1995	0.8759	-0.0212	0.87611	0.46796	274.320	11.579	0.16981	5128.9
28.0596	0.8759	-0.0170	0.87606	0.47034	274.908	11.601	0.16985	5130.0
27.9197	0.8759	-0.0128	0.87603	0.47273	275.370	11.618	0.16987	5130.9
27.7798	0.8760	-0.0085	0.87600	0.47512	275.703	11.630	0.16989	5131.6
27.6399	0.8760	-0.0043	0.87599	0.47754	275.908	11.637	0.16990	5132.0
27.5000	0.8760	0.0000	0.87598	0.47997	275.981	11.640	0.16990	5132.1

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR=35.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.7477 ENTRPHY=43.9099
GAMMA (AVG.)=1.1362 STAG. ENTHALPY=7.1974E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.7477	0.8767	-0.0379	0.87756	0.45854	366.446	12.690	0.15828	5817.1
28.5230	0.8768	-0.0341	0.87749	0.46070	367.941	12.735	0.15833	5819.2
28.4982	0.8769	-0.0303	0.87742	0.46284	369.275	12.775	0.15838	5821.0
28.3734	0.8770	-0.0265	0.87735	0.46498	370.452	12.811	0.15842	5822.7
28.2486	0.8770	-0.0227	0.87730	0.46711	371.672	12.842	0.15845	5824.1
28.1239	0.8770	-0.0190	0.87725	0.46924	372.338	12.868	0.15848	5825.3
27.9991	0.8771	-0.0152	0.87722	0.47137	373.051	12.890	0.15851	5826.2
27.8743	0.8771	-0.0114	0.87719	0.47350	373.609	12.907	0.15853	5827.0
27.7495	0.8771	-0.0076	0.87717	0.47564	374.013	12.919	0.15854	5827.4
27.6248	0.8771	-0.0038	0.87715	0.47780	374.260	12.927	0.15855	5828.0
27.5000	0.8771	0.0000	0.87715	0.47997	374.348	12.929	0.15855	5827.9

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR=40.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=28.6217 ENTRPHY=66.1955
GAMMA (AVG.)=1.1307 STAG. ENTHALPY=9.3917E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.6217	0.8778	-0.0341	0.87846	0.46067	478.370	14.032	0.14989	6317.6
28.5096	0.8779	-0.0307	0.87840	0.46261	480.121	14.076	0.14993	6319.6
28.3974	0.8779	-0.0273	0.87834	0.46455	481.685	14.117	0.14997	6321.2
28.2852	0.8780	-0.0239	0.87829	0.46647	483.064	14.152	0.15001	6322.7
28.1730	0.8780	-0.0205	0.87825	0.46839	484.260	14.183	0.15004	6323.9
28.0609	0.8780	-0.0171	0.87821	0.47031	485.275	14.210	0.15007	6324.9
27.9487	0.8781	-0.0137	0.87816	0.47223	486.110	14.231	0.15009	6325.8
27.8365	0.8781	-0.0103	0.87816	0.47415	486.763	14.248	0.15010	6326.5
27.7243	0.8781	-0.0069	0.87814	0.47608	487.236	14.260	0.15012	6327.0
27.6122	0.8781	-0.0034	0.87813	0.47802	487.529	14.268	0.15012	6327.3
27.5000	0.8781	0.0000	0.87813	0.47997	487.628	14.270	0.15013	6327.4

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.7597 ENTROPY=30.6558
GAMMA (AVG.)=1.3922 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7597	0.7686	-0.2507	0.80850	0.37863	4.133	2.551	0.55094	438.4
38.7837	0.7727	-0.2256	0.80492	0.39279	4.226	2.592	0.55555	441.2
37.8078	0.7762	-0.2009	0.80183	0.40658	4.307	2.627	0.55956	443.6
36.8318	0.7794	-0.1764	0.79914	0.42023	4.378	2.658	0.56306	445.6
35.8558	0.7822	-0.1520	0.79680	0.43389	4.440	2.685	0.56612	447.4
34.8798	0.7845	-0.1274	0.79480	0.44772	4.494	2.709	0.56875	448.9
33.9039	0.7864	-0.1027	0.79311	0.46183	4.539	2.728	0.57096	450.2
32.9279	0.7879	-0.0778	0.79175	0.47634	4.576	2.744	0.57276	451.2
31.9519	0.7890	-0.0524	0.79073	0.49138	4.603	2.756	0.57410	451.9
30.9760	0.7896	-0.0265	0.79006	0.50708	4.621	2.763	0.57496	452.4
30.0000	0.7898	-0.0000	0.78980	0.52360	4.627	2.766	0.57528	452.6

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=36.8725 ENTROPY=30.9986
GAMMA (AVG.)=1.3809 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8725	0.7999	-0.1853	0.82110	0.41590	6.574	3.238	0.44560	549.3
36.1852	0.8020	-0.1667	0.81915	0.42560	6.690	3.279	0.44784	552.0
35.4980	0.8039	-0.1483	0.81745	0.43709	6.793	3.315	0.44979	554.3
34.8107	0.8055	-0.1301	0.81596	0.44747	6.882	3.347	0.45151	556.3
34.1235	0.8070	-0.1119	0.81467	0.45783	6.961	3.375	0.45299	558.1
33.4362	0.8082	-0.0936	0.81357	0.46824	7.028	3.398	0.45426	559.6
32.7490	0.8092	-0.0753	0.81265	0.47879	7.084	3.418	0.45531	560.8
32.0617	0.8099	-0.0568	0.81192	0.48953	7.129	3.434	0.45616	561.8
31.3745	0.8105	-0.0382	0.81137	0.50053	7.163	3.445	0.45678	562.5
30.6872	0.8108	-0.0192	0.81102	0.51186	7.184	3.453	0.45717	562.9
30.0000	0.8109	0.0000	0.81089	0.52360	7.191	3.455	0.45732	563.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. R
VELOCITY= 5490.0 FT./SEC. ENTROPY=30.3774

FLOW PROPERTIES

SHOCK ANGLE=35.4902 ENTROPY=31.4234
GAMMA (AVG.)=1.3667 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4764	0.8224	-0.1309	0.83270	0.43555	9.718	3.837	0.38943	685.3
34.2087	0.8234	-0.1177	0.83173	0.44436	9.862	3.878	0.39073	688.0
33.7411	0.8243	-0.1047	0.83088	0.45301	9.990	3.915	0.39196	690.4
33.2734	0.8250	-0.0917	0.83013	0.46154	10.102	3.947	0.39304	692.5
32.8056	0.8257	-0.0788	0.82948	0.47013	10.200	3.975	0.39398	694.2
32.3382	0.8263	-0.0658	0.82893	0.47879	10.283	3.999	0.39477	695.8
31.8705	0.8268	-0.0528	0.82847	0.48735	10.353	4.019	0.39543	697.0
31.4029	0.8272	-0.0398	0.82811	0.49612	10.408	4.035	0.39595	698.0
30.9352	0.8274	-0.0267	0.82784	0.50306	10.449	4.046	0.39634	698.7
30.4676	0.8276	-0.0134	0.82767	0.51420	10.475	4.053	0.39656	699.2
30.0000	0.8276	0.0000	0.82761	0.52360	10.484	4.056	0.39666	699.4

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=34.6764 ENTROPY=31.8789
GAMMA (AVG.)=1.3477 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4764	0.8224	-0.1309	0.83270	0.44740	13.562	4.347	0.35429	844.0
34.2087	0.8234	-0.1177	0.83173	0.45505	13.738	4.389	0.35530	846.8
33.7411	0.8243	-0.1047	0.83088	0.46257	13.895	4.427	0.35619	849.3
33.2734	0.8250	-0.0917	0.83013	0.47003	14.033	4.459	0.35697	851.5
32.8056	0.8257	-0.0788	0.82948	0.47746	14.153	4.487	0.35765	853.3
32.3382	0.8263	-0.0658	0.82893	0.48492	14.256	4.512	0.35822	854.9
31.8705	0.8268	-0.0528	0.82847	0.49242	14.341	4.532	0.35870	856.2
31.4029	0.8272	-0.0398	0.82811	0.50000	14.409	4.547	0.35907	857.3
30.9352	0.8274	-0.0267	0.82784	0.50770	14.458	4.559	0.35934	858.0
30.4676	0.8276	-0.0134	0.82767	0.51556	14.489	4.566	0.35952	858.5
30.0000	0.8276	0.0000	0.82761	0.52360	14.501	4.569	0.35958	858.7

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=33.7929 ENTRØPY=32.8192
GAMMA (AVG.)=1.3212 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.7929	0.8310	-0.1077	0.83800	0.46087	23.348	5.162	0.31332	1223.7
33.4136	0.8317	-0.0969	0.83734	0.46718	23.603	5.205	0.31398	1226.9
33.0343	0.8323	-0.0862	0.83676	0.47340	23.828	5.242	0.31457	1229.8
32.6550	0.8328	-0.0755	0.83625	0.47957	24.027	5.275	0.31508	1232.3
32.2757	0.8333	-0.0648	0.83581	0.48573	24.200	5.304	0.31552	1234.4
31.8964	0.8337	-0.0541	0.83543	0.49189	24.348	5.329	0.31589	1236.2
31.5171	0.8340	-0.0434	0.83513	0.49808	24.470	5.349	0.31620	1237.8
31.1378	0.8342	-0.0327	0.83488	0.50432	24.566	5.365	0.31645	1238.9
30.7585	0.8344	-0.0219	0.83470	0.51064	24.637	5.376	0.31662	1239.8
30.3793	0.8345	-0.0110	0.83459	0.51706	24.681	5.384	0.31674	1240.3
30.0000	0.8345	0.0000	0.83455	0.52360	24.697	5.386	0.31678	1240.5

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=33.3264 ENTRØPY=33.7295
GAMMA (AVG.)=1.3060 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.3264	0.8355	-0.0952	0.84096	0.46817	35.934	5.769	0.29073	1685.2
32.9937	0.8361	-0.0857	0.84044	0.47375	36.281	5.812	0.29124	1689.0
32.6611	0.8365	-0.0762	0.83999	0.47926	36.590	5.850	0.29169	1692.3
32.3284	0.8369	-0.0667	0.83959	0.48473	36.863	5.883	0.29209	1695.3
31.9958	0.8373	-0.0572	0.83925	0.49018	37.099	5.912	0.29243	1697.8
31.6632	0.8376	-0.0478	0.83895	0.49564	37.301	5.937	0.29272	1700.0
31.3305	0.8378	-0.0383	0.83871	0.50111	37.467	5.957	0.29296	1701.8
30.9977	0.8380	-0.0288	0.83852	0.50663	37.599	5.973	0.29315	1703.2
30.6653	0.8382	-0.0193	0.83838	0.51220	37.695	5.985	0.29328	1704.2
30.3326	0.8382	-0.0097	0.83829	0.51785	37.755	5.992	0.29337	1704.8
30.0000	0.8383	0.0000	0.83826	0.52360	37.776	5.994	0.29340	1705.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=33.0466 ENTRØPY=34.5839
GAMMA (AVG.)=1.2977 STAG. ENTHALPY=6.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.0466	0.8382	-0.0876	0.84279	0.47261	51.317	6.223	0.27691	2231.0
32.7420	0.8387	-0.0788	0.84236	0.47774	51.775	6.266	0.27734	2235.6
32.4373	0.8391	-0.0701	0.84197	0.48282	52.182	6.304	0.27772	2239.6
32.1326	0.8394	-0.0614	0.84163	0.48786	52.541	6.337	0.27805	2243.1
31.8280	0.8397	-0.0527	0.84134	0.49288	52.852	6.366	0.27834	2246.2
31.5233	0.8399	-0.0440	0.84109	0.49790	53.118	6.391	0.27859	2248.7
31.2186	0.8402	-0.0352	0.84089	0.50295	53.337	6.411	0.27879	2250.9
30.9140	0.8403	-0.0265	0.84073	0.50802	53.510	6.427	0.27894	2252.5
30.6093	0.8404	-0.0177	0.84061	0.51315	53.636	6.439	0.27906	2253.8
30.3046	0.8405	-0.0089	0.84054	0.51833	53.714	6.446	0.27913	2254.5
30.0000	0.8405	0.0000	0.84051	0.52360	53.742	6.449	0.27916	2254.8

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=32.5936 ENTRØPY=35.4875
GAMMA (AVG.)=1.1291 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
32.5936	0.8425	-0.0754	0.84587	0.47964	69.482	7.146	0.23874	2580.3
32.3342	0.8428	-0.0678	0.84555	0.48411	70.019	7.194	0.23893	2582.6
32.0749	0.8431	-0.0602	0.84526	0.48852	70.495	7.238	0.23912	2584.1
31.8155	0.8434	-0.0527	0.84501	0.49289	70.914	7.275	0.23926	2585.9
31.5561	0.8436	-0.0452	0.84479	0.49724	71.277	7.307	0.23940	2587.4
31.2968	0.8438	-0.0377	0.84461	0.50158	71.586	7.335	0.23951	2588.6
31.0374	0.8439	-0.0302	0.84446	0.50592	71.840	7.358	0.23960	2589.5
30.7781	0.8440	-0.0227	0.84434	0.51028	72.039	7.376	0.23967	2590.3
30.5187	0.8441	-0.0152	0.84425	0.51467	72.185	7.389	0.23972	2590.6
30.2593	0.8442	-0.0076	0.84420	0.51911	72.274	7.397	0.23976	2590.8
30.0000	0.8442	-0.0000	0.84418	0.52360	72.306	7.400	0.23977	2591.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=32.2036 ENTRØPY=36.3496
GAMMA (AVG.)=1.1216 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
32.2036	0.8462	-0.0644	0.84860	0.48609	90.488	8.274	0.21976	2824.6
31.9832	0.8464	-0.0579	0.84837	0.48989	91.080	8.321	0.21993	2826.5
31.7629	0.8466	-0.0515	0.84816	0.49365	91.606	8.363	0.22007	2828.3
31.5425	0.8468	-0.0450	0.84798	0.49738	92.068	8.400	0.22018	2829.7
31.3221	0.8469	-0.0386	0.84782	0.50110	92.469	8.433	0.22029	2830.7
31.1018	0.8471	-0.0322	0.84768	0.50481	92.810	8.459	0.22038	2831.9
30.8814	0.8472	-0.0258	0.84757	0.50853	93.090	8.481	0.22046	2833.0
30.6611	0.8473	-0.0194	0.84749	0.51225	93.311	8.500	0.22052	2833.4
30.4407	0.8473	-0.0130	0.84742	0.51600	93.470	8.513	0.22056	2833.8
30.2203	0.8474	-0.0065	0.84739	0.51978	93.569	8.520	0.22058	2834.3
30.0000	0.8474	-0.0000	0.84737	0.52360	93.604	8.522	0.22060	2834.6

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=31.9279 ENTRØPY=37.2175
GAMMA (AVG.)=1.1380 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.9279	0.8487	-0.0566	0.85059	0.49070	114.295	9.349	0.20734	3060.9
31.7351	0.8489	-0.0509	0.85041	0.49402	114.946	9.396	0.20748	3062.7
31.5423	0.8490	-0.0452	0.85025	0.49732	115.525	9.437	0.20760	3064.2
31.3495	0.8492	-0.0396	0.85011	0.50059	116.035	9.473	0.20770	3065.7
31.1567	0.8493	-0.0339	0.84999	0.50385	116.477	9.504	0.20780	3067.0
30.9640	0.8494	-0.0283	0.84989	0.50711	116.853	9.530	0.20788	3068.1
30.7712	0.8495	-0.0227	0.84980	0.51037	117.162	9.552	0.20794	3069.0
30.5784	0.8496	-0.0170	0.84973	0.51365	117.405	9.570	0.20799	3069.6
30.3856	0.8496	-0.0114	0.84969	0.51693	117.581	9.582	0.20804	3070.2
30.1928	0.8496	-0.0057	0.84966	0.52025	117.689	9.590	0.20806	3070.2
30.0000	0.8496	-0.0000	0.84964	0.52359	117.728	9.593	0.20806	3070.4

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.7448 ENTROPY=38.0996
GAMMA AVG.=1.1710 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7448	0.8504	-0.0513	0.85194	0.49379	140.902	10.255	0.20024	3325.8
31.5703	0.8505	-0.0462	0.85180	0.49679	141.625	10.300	0.20038	3327.8
31.3958	0.8507	-0.0410	0.85166	0.49978	142.269	10.340	0.20049	3329.6
31.2213	0.8508	-0.0359	0.85155	0.50274	142.837	10.376	0.20059	3330.9
31.0468	0.8509	-0.0308	0.85145	0.50570	143.329	10.407	0.20068	3332.1
30.8724	0.8510	-0.0257	0.85136	0.50866	143.748	10.433	0.20076	3333.4
30.6979	0.8510	-0.0206	0.85129	0.51161	144.092	10.454	0.20081	3334.2
30.5234	0.8511	-0.0155	0.85124	0.51458	144.363	10.470	0.20086	3335.3
30.3489	0.8511	-0.0103	0.85120	0.51756	144.559	10.482	0.20091	3335.8
30.1744	0.8512	-0.0052	0.85117	0.52057	144.679	10.491	0.20093	3335.9
30.0000	0.8512	-0.0000	0.85116	0.52360	144.722	10.492	0.20093	3336.3

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23709.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.6450 ENTROPY=39.0062
GAMMA AVG.=1.1210 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6450	0.8513	-0.0484	0.85269	0.49550	170.305	10.836	0.19780	3672.7
31.4805	0.8514	-0.0436	0.85256	0.49832	171.126	10.878	0.19793	3675.6
31.3160	0.8516	-0.0387	0.85244	0.50113	171.858	10.918	0.19805	3677.5
31.1515	0.8517	-0.0339	0.85234	0.50393	172.504	10.952	0.19816	3679.4
30.9870	0.8518	-0.0291	0.85225	0.50671	173.064	10.981	0.19824	3681.4
30.8225	0.8518	-0.0242	0.85217	0.50950	173.541	11.006	0.19832	3682.7
30.6580	0.8519	-0.0194	0.85211	0.51230	173.933	11.026	0.19838	3684.2
30.4935	0.8519	-0.0146	0.85206	0.51510	174.241	11.042	0.19843	3685.2
30.3290	0.8520	-0.0097	0.85202	0.51791	174.463	11.054	0.19845	3685.7
30.1645	0.8520	-0.0049	0.85200	0.52075	174.600	11.061	0.19849	3686.1
30.0000	0.8520	0.0000	0.85199	0.52360	174.649	11.064	0.19849	3686.2

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.7084 ENTROPY=40.1254
GAMMA (AVG.)=1.2240 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7084	0.8507	-0.0502	0.85221	0.49444	202.480	10.464	0.20250	4341.1
31.5376	0.8509	-0.0452	0.85207	0.49737	203.494	10.507	0.20262	4344.7
31.3667	0.8510	-0.0402	0.85195	0.50028	204.399	10.545	0.20272	4347.9
31.1959	0.8511	-0.0352	0.85184	0.50318	205.198	10.578	0.20282	4350.7
31.0250	0.8512	-0.0302	0.85174	0.50608	205.891	10.607	0.20290	4353.1
30.8542	0.8513	-0.0252	0.85166	0.50897	206.480	10.632	0.20297	4355.0
30.6833	0.8514	-0.0201	0.85159	0.51187	206.965	10.652	0.20302	4356.7
30.5125	0.8514	-0.0151	0.85154	0.51477	207.345	10.668	0.20307	4357.9
30.3417	0.8514	-0.0101	0.85150	0.51769	207.621	10.680	0.20310	4359.0
30.1708	0.8515	-0.0051	0.85148	0.52063	207.790	10.687	0.20312	4359.4
30.0000	0.8515	0.0000	0.85147	0.52360	207.850	10.689	0.20313	4359.7

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.6275 ENTROPY=40.9566
GAMMA (AVG.)=1.1865 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6275	0.8515	-0.0479	0.85282	0.49577	237.460	10.940	0.19470	4796.2
31.4647	0.8516	-0.0431	0.85269	0.49857	238.596	10.985	0.19478	4798.9
31.3020	0.8517	-0.0383	0.85258	0.50135	239.609	11.025	0.19485	4801.4
31.1392	0.8518	-0.0335	0.85248	0.50412	240.502	11.060	0.19492	4803.6
30.9765	0.8519	-0.0288	0.85239	0.50688	241.278	11.091	0.19497	4805.5
30.8137	0.8520	-0.0240	0.85232	0.50964	241.937	11.117	0.19502	4807.2
30.6510	0.8520	-0.0192	0.85225	0.51241	242.479	11.138	0.19506	4808.4
30.4882	0.8521	-0.0144	0.85221	0.51518	242.904	11.155	0.19509	4809.5
30.3255	0.8521	-0.0096	0.85217	0.51797	243.212	11.168	0.19512	4810.1
30.1627	0.8521	-0.0048	0.85215	0.52077	243.401	11.175	0.19513	4810.6
30.0000	0.8521	-0.0000	0.85214	0.52360	243.469	11.178	0.19513	4810.8

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH N0.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.5449 ENTR0PY=41.8562
GAMMA (AVG.)=1.1633 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
31.5449	0.8522	-0.0456	0.85345	0.49714	275.248	11.480	0.18790	5171.8
31.3904	0.8523	-0.0410	0.85333	0.49980	276.498	11.525	0.18798	5174.3
31.2359	0.8524	-0.0364	0.85323	0.50245	277.614	11.566	0.18805	5176.5
31.0814	0.8525	-0.0319	0.85314	0.50509	278.597	11.601	0.18811	5178.4
30.9269	0.8526	-0.0273	0.85306	0.50771	279.451	11.632	0.18816	5180.0
30.7724	0.8527	-0.0228	0.85299	0.51034	280.176	11.658	0.18820	5181.5
30.6179	0.8527	-0.0183	0.85293	0.51297	280.772	11.680	0.18824	5182.6
30.4634	0.8528	-0.0137	0.85289	0.51560	281.240	11.697	0.18827	5183.6
30.3089	0.8528	-0.0092	0.85286	0.51825	281.578	11.709	0.18829	5184.2
30.1545	0.8528	-0.0046	0.85284	0.52091	281.786	11.716	0.18830	5184.6
30.0000	0.8528	-0.0000	0.85283	0.52360	281.860	11.719	0.18830	5184.9

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH N0.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.4697 ENTR0PY=42.7971
GAMMA (AVG.)=1.1478 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
31.4697	0.8529	-0.0434	0.85402	0.49840	315.837	12.026	0.18213	5497.7
31.3227	0.8530	-0.0391	0.85391	0.50093	317.202	12.071	0.18220	5500.1
31.1757	0.8531	-0.0347	0.85382	0.50346	318.420	12.112	0.18226	5502.1
31.0287	0.8532	-0.0304	0.85374	0.50597	319.494	12.147	0.18231	5503.8
30.8818	0.8533	-0.0260	0.85366	0.50847	320.426	12.178	0.18236	5505.4
30.7348	0.8533	-0.0217	0.85360	0.51097	321.217	12.204	0.18240	5506.7
30.5878	0.8534	-0.0174	0.85355	0.51348	321.868	12.226	0.18243	5507.7
30.4409	0.8534	-0.0131	0.85351	0.51599	322.378	12.243	0.18246	5508.6
30.2939	0.8534	-0.0087	0.85349	0.51851	322.747	12.255	0.18247	5509.2
30.1469	0.8535	-0.0044	0.85347	0.52104	322.973	12.262	0.18248	5509.7
30.0000	0.8535	-0.0000	0.85346	0.52360	323.054	12.265	0.18249	5509.6

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.3019 ENTRØPY=45.2241
GAMMA (AVG.)=1.1305 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.3019	0.8544	-0.0386	0.85531	0.50122	429.571	13.473	0.17031	6123.7
31.1717	0.8545	-0.0347	0.85523	0.50347	431.214	13.518	0.17037	6125.6
31.0415	0.8546	-0.0308	0.85515	0.50571	432.681	13.559	0.17042	6127.4
30.9113	0.8547	-0.0270	0.85509	0.50795	433.974	13.594	0.17047	6128.9
30.7811	0.8547	-0.0231	0.85503	0.51017	435.096	13.625	0.17050	6130.1
30.6509	0.8548	-0.0193	0.85498	0.51239	436.048	13.652	0.17054	6131.2
30.5207	0.8548	-0.0154	0.85494	0.51462	436.831	13.673	0.17056	6132.2
30.3906	0.8548	-0.0116	0.85491	0.51685	437.444	13.690	0.17058	6132.9
30.2604	0.8549	-0.0077	0.85489	0.51909	437.887	13.703	0.17060	6133.3
30.1302	0.8549	-0.0039	0.85488	0.52134	438.158	13.710	0.17061	6133.8
30.0000	0.8549	0.0000	0.85487	0.52360	438.255	13.712	0.17061	6133.8

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=31.1741 ENTRØPY=47.7646
GAMMA (AVG.)=1.1368 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.1741	0.8556	-0.0348	0.85631	0.50339	560.811	14.857	0.16234	6605.0
31.0567	0.8557	-0.0313	0.85624	0.50542	562.742	14.901	0.16239	6606.8
30.9393	0.8557	-0.0279	0.85618	0.50744	564.466	14.941	0.16244	6608.5
30.8219	0.8558	-0.0244	0.85612	0.50946	565.986	14.977	0.16248	6609.9
30.7045	0.8558	-0.0209	0.85608	0.51147	567.305	15.008	0.16251	6611.1
30.5870	0.8559	-0.0174	0.85604	0.51348	568.425	15.034	0.16254	6612.2
30.4696	0.8559	-0.0140	0.85601	0.51549	569.345	15.055	0.16256	6613.0
30.3522	0.8559	-0.0105	0.85598	0.51750	570.066	15.071	0.16258	6613.9
30.2348	0.8559	-0.0070	0.85596	0.51952	570.587	15.084	0.16260	6614.2
30.1174	0.8559	-0.0035	0.85595	0.52155	570.905	15.091	0.16260	6614.5
30.0000	0.8559	-0.0000	0.85595	0.52360	571.019	15.093	0.16261	6614.9

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.5490 ENTROPY=30.7261

GAMMA (AVG.)=1.3901 STAG. ENTHALPY=8.193E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5490	0.7366	-0.2488	0.77748	0.41693	4.642	2.718	0.59251	462.1
41.5441	0.7407	-0.2239	0.77381	0.43152	4.739	2.759	0.59760	464.8
40.5392	0.7444	-0.1994	0.77062	0.44580	4.825	2.795	0.60207	467.1
39.5343	0.7476	-0.1751	0.76784	0.45997	4.900	2.826	0.60599	470.1
38.5294	0.7504	-0.1508	0.76543	0.47419	4.965	2.853	0.60941	470.9
37.5245	0.7528	-0.1264	0.76335	0.48858	5.022	2.876	0.61236	472.4
36.5196	0.7548	-0.1019	0.76162	0.50326	5.069	2.896	0.61484	473.6
35.5147	0.7563	-0.0770	0.76022	0.51834	5.108	2.912	0.61685	474.6
34.5098	0.7574	-0.0519	0.75916	0.53394	5.136	2.923	0.61835	475.4
33.5049	0.7580	-0.0262	0.75848	0.55019	5.155	2.931	0.61931	475.9
32.5000	0.7582	0.0000	0.75821	0.56723	5.162	2.934	0.61967	476.0

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.6387 ENTROPY=31.1213

GAMMA (AVG.)=1.3763 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6387	0.7700	-0.1860	0.79216	0.45487	7.459	3.430	0.47973	588.3
38.9248	0.7722	-0.1673	0.79012	0.46600	7.583	3.472	0.48219	590.9
38.2110	0.7742	-0.1489	0.78834	0.47693	7.692	3.508	0.48434	593.2
37.4971	0.7759	-0.1305	0.78677	0.48777	7.789	3.540	0.48623	595.3
36.7832	0.7774	-0.1122	0.78542	0.49860	7.872	3.568	0.48787	597.0
36.0693	0.7786	-0.0939	0.78426	0.50949	7.944	3.591	0.48927	598.5
35.3555	0.7797	-0.0755	0.78330	0.52052	8.004	3.611	0.49043	599.7
34.6416	0.7805	-0.0570	0.78253	0.53174	8.052	3.627	0.49136	600.7
33.9277	0.7810	-0.0382	0.78196	0.54322	8.088	3.638	0.49205	601.4
33.2138	0.7814	-0.0193	0.78160	0.55503	8.110	3.646	0.49248	601.9
32.5000	0.7815	0.0000	0.78146	0.56723	8.119	3.648	0.49264	602.1

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=38.2401 ENTRØPY=31.5912

GAMMA (AVG.)=1.3582 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.2401	0.7854	-0.1532	0.80020	0.47474	11.089	4.039	0.42027	742.8
37.6661	0.7868	-0.1378	0.79882	0.48397	11.245	4.081	0.42181	745.5
37.0921	0.7881	-0.1226	0.79760	0.49305	11.383	4.118	0.42317	747.9
36.5181	0.7893	-0.1074	0.79654	0.50206	11.505	4.150	0.42436	750.0
35.9441	0.7902	-0.0923	0.79562	0.51105	11.611	4.178	0.42539	751.8
35.3700	0.7911	-0.0772	0.79483	0.52007	11.701	4.202	0.42627	753.4
34.7960	0.7918	-0.0620	0.79418	0.52917	11.777	4.222	0.42700	754.6
34.2220	0.7923	-0.0467	0.79366	0.53840	11.836	4.238	0.42758	755.7
33.6480	0.7927	-0.0313	0.79328	0.54778	11.881	4.250	0.42800	756.4
33.0740	0.7929	-0.0158	0.79304	0.55738	11.908	4.257	0.42827	756.9
32.5000	0.7929	0.0000	0.79295	0.56724	11.918	4.260	0.42836	757.0

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=37.4295 ENTRØPY=32.0912

GAMMA (AVG.)=1.3406 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
37.4295	0.7941	-0.1335	0.80522	0.48674	15.529	4.554	0.38346	922.7
36.9365	0.7952	-0.1201	0.80417	0.49480	15.722	4.596	0.38458	925.6
36.4436	0.7961	-0.1068	0.80325	0.50274	15.893	4.633	0.38556	928.1
35.9506	0.7970	-0.0935	0.80244	0.51063	16.044	4.666	0.38643	930.4
35.4577	0.7977	-0.0803	0.80174	0.51849	16.175	4.694	0.38717	932.3
34.9647	0.7983	-0.0671	0.80115	0.52637	16.287	4.718	0.38781	933.9
34.4718	0.7988	-0.0539	0.80065	0.53430	16.380	4.738	0.38834	935.3
33.9788	0.7992	-0.0406	0.80026	0.54232	16.453	4.754	0.38875	936.3
33.4859	0.7995	-0.0272	0.79998	0.55046	16.507	4.766	0.38906	937.1
32.9929	0.7997	-0.0137	0.79980	0.55875	16.541	4.773	0.38925	937.6
32.5000	0.7997	0.0000	0.79973	0.56723	16.553	4.776	0.38932	937.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=36.5359 ENTROPY=33.0976
GAMMA (AVG.)=1.3156 STAG. ENTHALPY=6.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHM	MU	T (K)
36.0658	0.8083	-0.0989	0.81436	0.50777	41.374	5.955	0.31750	1879.8
35.7092	0.8089	-0.0889	0.81378	0.51375	41.760	5.998	0.31808	1883.8
35.3526	0.8094	-0.0791	0.81328	0.51965	42.104	6.036	0.31859	1887.4
34.9960	0.8099	-0.0692	0.81284	0.52552	42.407	6.069	0.31904	1890.6
34.6395	0.8103	-0.0594	0.81245	0.53137	42.670	6.098	0.31942	1893.3
34.2829	0.8106	-0.0496	0.81213	0.53723	42.895	6.122	0.31975	1895.6
33.9263	0.8109	-0.0398	0.81186	0.54311	43.080	6.143	0.32002	1897.5
33.5697	0.8111	-0.0299	0.81164	0.54903	43.227	6.159	0.32023	1899.0
33.2131	0.8112	-0.0200	0.81149	0.55501	43.333	6.170	0.32039	1900.1
32.8566	0.8113	-0.0100	0.81139	0.56107	43.399	6.178	0.32048	1900.7
32.5000	0.8114	-0.0000	0.81135	0.56723	43.423	6.180	0.32052	1901.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=36.0658 ENTROPY=34.0570
GAMMA (AVG.)=1.3023 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHM	MU	T (K)
36.0658	0.8083	-0.0989	0.81436	0.50777	41.374	5.955	0.31750	1879.8
35.7092	0.8089	-0.0889	0.81378	0.51375	41.760	5.998	0.31808	1883.8
35.3526	0.8094	-0.0791	0.81328	0.51965	42.104	6.036	0.31859	1887.4
34.9960	0.8099	-0.0692	0.81284	0.52552	42.407	6.069	0.31904	1890.6
34.6395	0.8103	-0.0594	0.81245	0.53137	42.670	6.098	0.31942	1893.3
34.2829	0.8106	-0.0496	0.81213	0.53723	42.895	6.122	0.31975	1895.6
33.9263	0.8109	-0.0398	0.81186	0.54311	43.080	6.143	0.32002	1897.5
33.5697	0.8111	-0.0299	0.81164	0.54903	43.227	6.159	0.32023	1899.0
33.2131	0.8112	-0.0200	0.81149	0.55501	43.333	6.170	0.32039	1900.1
32.8566	0.8113	-0.0100	0.81139	0.56107	43.399	6.178	0.32048	1900.7
32.5000	0.8114	-0.0000	0.81135	0.56723	43.423	6.180	0.32052	1901.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRBPV=30.3778

FLOW PROPERTIES

SHOCK ANGLE=35.7859 ENTRBPV=34.9478
GAMMA AVG.=1.2953 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	Y	THETA	P	RHO	MU	T (K)
35.1335	0.8112	-0.0915	0.81635	0.51222	59.145	6.389	0.30391	2504.8
34.8701	0.8117	-0.0823	0.81586	0.51775	59.657	6.431	0.30390	2509.7
34.6068	0.8121	-0.0732	0.81543	0.52322	60.113	6.469	0.30433	2514.1
34.3434	0.8125	-0.0641	0.81505	0.52866	60.515	6.503	0.30471	2517.9
34.0801	0.8129	-0.0550	0.81472	0.53408	60.865	6.532	0.30504	2521.2
33.8167	0.8131	-0.0459	0.81444	0.53950	61.162	6.556	0.30532	2524.0
33.5534	0.8134	-0.0368	0.81421	0.54495	61.407	6.577	0.30555	2526.3
33.2900	0.8136	-0.0277	0.81403	0.55042	61.601	6.593	0.30573	2528.1
33.0267	0.8137	-0.0185	0.81389	0.55595	61.742	6.604	0.30586	2529.4
32.7633	0.8138	-0.0093	0.81381	0.56155	61.829	6.611	0.30594	2530.2
32.5000	0.8138	0.0000	0.81378	0.56723	61.861	6.614	0.30597	2530.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRBPV=30.3778

FLOW PROPERTIES

SHOCK ANGLE=35.1335 ENTRBPV=35.9366
GAMMA AVG.=1.1220 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.1335	0.8178	-0.0744	0.82118	0.52251	80.131	7.738	0.25327	2710.4
34.8701	0.8181	-0.0669	0.82086	0.52705	80.698	7.786	0.25348	2712.2
34.6068	0.8184	-0.0594	0.82057	0.53153	81.200	7.829	0.25368	2713.9
34.3434	0.8187	-0.0520	0.82032	0.53598	81.642	7.867	0.25385	2715.2
34.0801	0.8189	-0.0446	0.82010	0.54041	82.025	7.898	0.25399	2717.0
33.8167	0.8191	-0.0372	0.81992	0.54483	82.350	7.926	0.25410	2717.9
33.5534	0.8192	-0.0298	0.81976	0.54925	82.617	7.948	0.25420	2718.8
33.2900	0.8193	-0.0224	0.81965	0.55369	82.828	7.966	0.25428	2719.5
33.0267	0.8194	-0.0150	0.81956	0.55816	82.981	7.979	0.25433	2720.0
32.7633	0.8195	-0.0075	0.81950	0.56267	83.075	7.987	0.25436	2720.4
32.5000	0.8195	0.0000	0.81948	0.56723	83.108	7.990	0.25438	2720.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.7469 ENTRØPY=36.8674
GAMMA (AVG.)=1.1291 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.7469	0.8217	-0.0638	0.82415	0.52893	104.388	8.931	0.23496	2964.6
34.5222	0.8219	-0.0574	0.82391	0.53281	105.013	8.978	0.23515	2966.2
34.2975	0.8221	-0.0510	0.82370	0.53664	105.570	9.019	0.23531	2968.0
34.0728	0.8223	-0.0446	0.82352	0.54045	106.060	9.055	0.23543	2969.6
33.8481	0.8225	-0.0383	0.82336	0.54425	106.486	9.087	0.23555	2970.7
33.6234	0.8226	-0.0319	0.82322	0.54804	106.846	9.114	0.23566	2971.7
33.3987	0.8227	-0.0256	0.82311	0.55183	107.144	9.136	0.23573	2972.7
33.1740	0.8228	-0.0192	0.82302	0.55564	107.377	9.153	0.23580	2973.4
32.9493	0.8229	-0.0128	0.82296	0.55947	107.546	9.166	0.23584	2973.8
32.7247	0.8229	-0.0064	0.82292	0.56333	107.650	9.173	0.23587	2974.1
32.5000	0.8229	-0.0000	0.82290	0.56722	107.687	9.177	0.23588	2974.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.4895 ENTRØPY=37.8085
GAMMA (AVG.)=1.1588 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.4895	0.8242	-0.0567	0.82618	0.53326	131.878	9.985	0.22416	3233.3
34.2905	0.8244	-0.0510	0.82599	0.53668	132.574	10.030	0.22433	3235.2
34.0916	0.8246	-0.0453	0.82582	0.54008	133.195	10.070	0.22446	3237.0
33.8926	0.8247	-0.0397	0.82568	0.54346	133.742	10.106	0.22458	3238.4
33.6937	0.8248	-0.0340	0.82555	0.54683	134.217	10.137	0.22469	3239.7
33.4947	0.8250	-0.0284	0.82544	0.55019	134.620	10.162	0.22478	3241.1
33.2958	0.8250	-0.0227	0.82536	0.55357	134.952	10.184	0.22486	3241.8
33.0968	0.8251	-0.0171	0.82529	0.55695	135.213	10.201	0.22491	3242.7
32.8979	0.8252	-0.0114	0.82524	0.56035	135.402	10.213	0.22495	3243.2
32.6989	0.8252	-0.0057	0.82520	0.56377	135.517	10.221	0.22498	3243.4
32.5000	0.8252	-0.0000	0.82519	0.56722	135.559	10.224	0.22499	3243.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH N0.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=34.3409 ENTROPY=38.7735
GAMMA (AVG.)=1.2010 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.3409	0.8257	-0.0526	0.82737	0.53578	162.600	10.731	0.21961	3572.8
34.1508	0.8259	-0.0473	0.82721	0.53894	163.391	10.774	0.21976	3575.2
33.9727	0.8260	-0.0420	0.82706	0.54208	164.098	10.813	0.21988	3577.3
33.7886	0.8261	-0.0368	0.82694	0.54521	164.721	10.848	0.22000	3579.1
33.6045	0.8262	-0.0316	0.82683	0.54833	165.262	10.878	0.22011	3580.8
33.4204	0.8263	-0.0263	0.82674	0.55145	165.722	10.903	0.22019	3582.0
33.2363	0.8264	-0.0211	0.82666	0.55457	166.100	10.924	0.22026	3583.3
33.0523	0.8265	-0.0158	0.82660	0.55771	166.397	10.941	0.22032	3583.9
32.8682	0.8265	-0.0106	0.82656	0.56086	166.612	10.952	0.22036	3584.6
32.6841	0.8265	-0.0053	0.82653	0.56403	166.744	10.959	0.22038	3585.2
32.5000	0.8265	-0.0000	0.82652	0.56722	166.791	10.962	0.22040	3585.4

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH N0.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23759.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=34.3772 ENTROPY=39.9220
GAMMA (AVG.)=1.2257 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.3772	0.8253	-0.0536	0.82707	0.53520	196.541	10.544	0.22389	4210.9
34.1895	0.8255	-0.0482	0.82691	0.53842	197.517	10.585	0.22405	4214.7
34.0018	0.8256	-0.0428	0.82676	0.54162	198.388	10.622	0.22419	4218.3
33.8141	0.8258	-0.0375	0.82663	0.54480	199.156	10.654	0.22431	4221.3
33.6263	0.8259	-0.0322	0.82652	0.54798	199.822	10.682	0.22442	4224.0
33.4386	0.8260	-0.0268	0.82642	0.55116	200.389	10.706	0.22450	4226.1
33.2509	0.8261	-0.0215	0.82634	0.55434	200.855	10.725	0.22458	4228.2
33.0632	0.8261	-0.0161	0.82628	0.55753	201.222	10.741	0.22464	4229.3
32.8754	0.8262	-0.0108	0.82623	0.56074	201.487	10.752	0.22468	4230.5
32.6877	0.8262	-0.0054	0.82621	0.56397	201.649	10.759	0.22470	4231.1
32.5000	0.8262	0.0000	0.82620	0.56723	201.707	10.761	0.22472	4231.4

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.3139 ENTRØPY=40.8715
GAMMA (AVG.)=1.1899 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.3139	0.8260	-0.0516	0.82758	0.53623	233.705	10.878	0.21688	4754.3
34.1325	0.8261	-0.0466	0.82743	0.53935	234.829	10.923	0.21698	4757.2
33.9511	0.8263	-0.0414	0.82729	0.54245	235.832	10.963	0.21707	4759.8
33.7697	0.8264	-0.0363	0.82717	0.54553	236.717	10.998	0.21715	4762.0
33.5883	0.8265	-0.0311	0.82706	0.54861	237.485	11.029	0.21722	4764.0
33.4069	0.8266	-0.0259	0.82697	0.55168	238.137	11.055	0.21728	4765.6
33.2255	0.8266	-0.0208	0.82690	0.55476	238.674	11.076	0.21733	4766.9
33.0441	0.8267	-0.0156	0.82684	0.55785	239.096	11.093	0.21737	4768.0
32.8628	0.8267	-0.0104	0.82680	0.56096	239.401	11.105	0.21739	4768.8
32.6814	0.8268	-0.0052	0.82677	0.56408	239.588	11.113	0.21741	4769.3
32.5000	0.8268	-0.0000	0.82676	0.56723	239.655	11.115	0.21742	4769.6

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.2133 ENTRØPY=41.8291
GAMMA (AVG.)=1.1639 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.2133	0.8269	-0.0490	0.82840	0.53790	274.110	11.465	0.20852	5161.4
34.0420	0.8271	-0.0441	0.82826	0.54085	275.356	11.510	0.20861	5164.0
33.8706	0.8272	-0.0392	0.82814	0.54378	276.469	11.550	0.20869	5166.3
33.6993	0.8273	-0.0343	0.82803	0.54670	277.450	11.586	0.20876	5168.1
33.5280	0.8274	-0.0294	0.82794	0.54962	278.301	11.616	0.20882	5169.9
33.3566	0.8275	-0.0245	0.82786	0.55253	279.024	11.643	0.20887	5171.2
33.1853	0.8276	-0.0197	0.82779	0.55544	279.619	11.664	0.20892	5172.4
33.0140	0.8276	-0.0148	0.82774	0.55837	280.085	11.681	0.20895	5173.4
32.8426	0.8276	-0.0099	0.82770	0.56130	280.423	11.693	0.20898	5174.0
32.6713	0.8277	-0.0049	0.82768	0.56425	280.629	11.701	0.20899	5174.4
32.5000	0.8277	-0.0000	0.82767	0.56723	280.704	11.703	0.20900	5174.6

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.1235 ENTRØPY=42.8404
GAMMA (AVG.)=1.1472 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.1235	0.8278	-0.0465	0.82914	0.53940	317.750	12.051	0.20159	5511.5
33.9612	0.8280	-0.0419	0.82901	0.54220	319.120	12.096	0.20167	5513.8
33.7988	0.8281	-0.0372	0.82890	0.54498	320.343	12.137	0.20174	5515.7
33.6365	0.8282	-0.0326	0.82880	0.54776	321.421	12.172	0.20180	5517.6
33.4741	0.8282	-0.0279	0.82872	0.55052	322.356	12.203	0.20186	5519.1
33.3117	0.8283	-0.0233	0.82864	0.55329	323.150	12.230	0.20191	5520.4
33.1494	0.8284	-0.0187	0.82858	0.55605	323.803	12.251	0.20195	5521.4
32.9870	0.8284	-0.0140	0.82854	0.55883	324.315	12.268	0.20198	5522.3
32.8247	0.8285	-0.0094	0.82850	0.56161	324.686	12.280	0.20200	5522.9
32.6623	0.8285	-0.0047	0.82848	0.56441	324.912	12.288	0.20201	5523.2
32.5000	0.8285	-0.0000	0.82847	0.56723	324.994	12.291	0.20202	5523.3

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=34.0391 ENTRØPY=43.8709
GAMMA (AVG.)=1.1364 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.0391	0.8287	-0.0442	0.82983	0.54081	364.625	12.466	0.19542	5807.2
33.8852	0.8288	-0.0398	0.82972	0.54347	366.115	12.711	0.19550	5809.3
33.7313	0.8289	-0.0353	0.82962	0.54611	367.446	12.752	0.19556	5811.1
33.5774	0.8290	-0.0309	0.82953	0.54875	368.618	12.787	0.19562	5812.7
33.4235	0.8290	-0.0265	0.82945	0.55137	369.636	12.818	0.19567	5814.1
33.2695	0.8291	-0.0221	0.82939	0.55400	370.500	12.845	0.19572	5815.2
33.1156	0.8291	-0.0177	0.82933	0.55662	371.210	12.866	0.19575	5816.3
32.9617	0.8292	-0.0133	0.82929	0.55926	371.767	12.883	0.19578	5817.0
32.8078	0.8292	-0.0089	0.82926	0.56190	372.169	12.895	0.19580	5817.7
32.6539	0.8292	-0.0044	0.82924	0.56455	372.416	12.903	0.19581	5818.0
32.5000	0.8292	-0.0000	0.82924	0.56723	372.504	12.906	0.19581	5818.0

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=33.8607 ENTRBPY=46.5377
GAMMA (AVG.)=1.1315 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
33.8607	0.8304	-0.0392	0.83132	0.54383	495.973	14.221	0.18349	6382.3
33.7246	0.8305	-0.0352	0.83123	0.54619	497.763	14.265	0.18355	6384.0
33.5885	0.8306	-0.0313	0.83115	0.54853	499.361	14.306	0.18361	6385.8
33.4525	0.8306	-0.0274	0.83108	0.55086	500.770	14.341	0.18366	6387.1
33.3164	0.8307	-0.0235	0.83102	0.55319	501.992	14.372	0.18370	6388.3
33.1803	0.8307	-0.0196	0.83097	0.55552	503.030	14.399	0.18373	6389.4
33.0442	0.8308	-0.0157	0.83093	0.55784	503.803	14.420	0.18376	6390.3
32.9082	0.8308	-0.0118	0.83089	0.56018	504.551	14.437	0.18379	6391.0
32.7721	0.8308	-0.0079	0.83087	0.56252	505.034	14.449	0.18380	6391.4
32.6360	0.8308	-0.0039	0.83086	0.56487	505.329	14.456	0.18381	6391.7
32.5000	0.8308	0.0000	0.83085	0.56723	505.434	14.459	0.18382	6391.8

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.8030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=33.7394 ENTRBPY=49.3332
GAMMA (AVG.)=1.1472 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
33.7394	0.8316	-0.0358	0.83234	0.54590	647.530	15.535	0.17644	6899.2
33.6154	0.8316	-0.0322	0.83227	0.54804	649.654	15.579	0.17650	6901.1
33.4915	0.8317	-0.0286	0.83220	0.55017	651.552	15.619	0.17655	6902.8
33.3676	0.8318	-0.0250	0.83214	0.55230	653.226	15.654	0.17660	6904.4
33.2436	0.8318	-0.0215	0.83209	0.55442	654.678	15.684	0.17664	6905.8
33.1197	0.8319	-0.0179	0.83205	0.55655	655.911	15.710	0.17667	6906.9
32.9957	0.8319	-0.0143	0.83202	0.55867	656.924	15.732	0.17669	6907.6
32.8718	0.8319	-0.0108	0.83199	0.56080	657.718	15.748	0.17672	6908.4
32.7479	0.8319	-0.0072	0.83197	0.56293	658.291	15.760	0.17673	6909.1
32.6239	0.8319	-0.0036	0.83196	0.56508	658.641	15.767	0.17674	6909.3
32.5000	0.8320	-0.0000	0.83195	0.56723	658.766	15.770	0.17674	6909.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=45.4490 ENTRØPY=30.8012
GAMMA (AVG.)=1.3878 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.4490	0.7014	-0.2476	0.74385	0.45394	5.175	2.878	0.64155	486.5
44.4041	0.7057	-0.2229	0.74005	0.46907	5.278	2.919	0.64736	489.2
43.3592	0.7095	-0.1985	0.73673	0.48395	5.368	2.955	0.65248	491.5
42.3143	0.7128	-0.1743	0.73383	0.49875	5.447	2.986	0.65699	493.5
41.2694	0.7158	-0.1501	0.73132	0.51362	5.516	3.013	0.66094	495.3
40.2245	0.7182	-0.1258	0.72915	0.52869	5.575	3.037	0.66435	496.7
39.1796	0.7203	-0.1013	0.72734	0.54406	5.625	3.056	0.66721	498.0
38.1347	0.7218	-0.0766	0.72588	0.55985	5.666	3.072	0.66953	499.0
37.0898	0.7230	-0.0515	0.72479	0.57616	5.696	3.084	0.67126	499.7
36.0449	0.7236	-0.0260	0.72408	0.59312	5.715	3.091	0.67236	500.2
35.0000	0.7238	0.0000	0.72381	0.61087	5.722	3.094	0.67278	500.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.4735 ENTRØPY=31.2464
GAMMA (AVG.)=1.3715 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.4735	0.7375	-0.1871	0.76088	0.49292	8.384	3.610	0.51872	628.4
41.7261	0.7398	-0.1683	0.75873	0.50455	8.516	3.651	0.52148	631.1
40.9788	0.7419	-0.1498	0.75684	0.51601	8.633	3.688	0.52391	633.4
40.2314	0.7437	-0.1313	0.75519	0.52739	8.736	3.720	0.52604	635.4
39.4841	0.7453	-0.1129	0.75376	0.53878	8.825	3.747	0.52789	637.2
38.7367	0.7466	-0.0945	0.75253	0.55023	8.902	3.771	0.52948	638.7
37.9894	0.7477	-0.0759	0.75152	0.56183	8.966	3.791	0.53080	639.9
37.2420	0.7485	-0.0573	0.75070	0.57362	9.017	3.807	0.53185	640.9
36.4947	0.7491	-0.0384	0.75010	0.58568	9.055	3.818	0.53262	641.6
35.7473	0.7495	-0.0194	0.74972	0.59808	9.079	3.825	0.53311	642.1
35.0000	0.7496	0.0000	0.74957	0.61087	9.088	3.828	0.53329	642.3

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=61.0491 ENTROPY=31.7610
GAMMA (AVG.)=1.3519 STAG. ENTHALPY=1.7594E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.0491	0.7541	-0.1554	0.76996	0.51321	12.522	4.226	0.45507	801.8
40.4442	0.7557	-0.1398	0.76848	0.52293	12.690	4.267	0.45680	804.6
39.8393	0.7570	-0.1244	0.76718	0.53251	12.839	4.304	0.45833	807.0
39.2344	0.7582	-0.1090	0.76604	0.54202	12.970	4.337	0.45967	809.1
38.6295	0.7593	-0.0936	0.76505	0.55152	13.084	4.365	0.46084	811.0
38.0245	0.7602	-0.0783	0.76421	0.56106	13.182	4.389	0.46183	812.6
37.4196	0.7609	-0.0629	0.76351	0.57068	13.263	4.409	0.46265	813.9
36.8147	0.7615	-0.0474	0.76296	0.58043	13.327	4.425	0.46330	814.9
36.2098	0.7619	-0.0317	0.76255	0.59034	13.374	4.437	0.46378	815.6
35.6049	0.7621	-0.0160	0.76229	0.60047	13.404	4.444	0.46408	816.1
35.0000	0.7622	-0.0000	0.76219	0.61086	13.415	4.446	0.46419	816.3

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6400.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=40.2221 ENTROPY=32.2990
GAMMA (AVG.)=1.3343 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2221	0.7635	-0.1362	0.77557	0.52549	17.584	4.741	0.41599	1003.4
39.6999	0.7647	-0.1225	0.77444	0.53402	17.793	4.783	0.41725	1006.4
39.1777	0.7657	-0.1090	0.77344	0.54244	17.979	4.821	0.41837	1009.0
38.6554	0.7667	-0.0955	0.77257	0.55080	18.142	4.854	0.41935	1011.3
38.1332	0.7674	-0.0820	0.77181	0.55914	18.285	4.882	0.42019	1013.3
37.6110	0.7681	-0.0685	0.77117	0.56751	18.406	4.906	0.42091	1015.0
37.0888	0.7687	-0.0550	0.77063	0.57593	18.507	4.927	0.42151	1016.4
36.5666	0.7691	-0.0414	0.77021	0.58444	18.587	4.943	0.42198	1017.5
36.0444	0.7694	-0.0277	0.76990	0.59308	18.645	4.954	0.42232	1018.3
35.5222	0.7696	-0.0139	0.76970	0.60188	18.682	4.961	0.42254	1018.7
35.0000	0.7696	0.0000	0.76963	0.61037	18.695	4.964	0.42262	1018.9

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.3104 ENTRPHY=33.3650
GAMMA (AVG.)=1.3111 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.3104	0.7737	-0.1143	0.78211	0.53945	30.474	5.543	0.37114	1487.4
18.8744	0.7745	-0.1028	0.78131	0.54060	30.781	5.586	0.37198	1490.9
18.4483	0.7752	-0.0914	0.78051	0.54368	31.054	5.624	0.37272	1494.0
18.0173	0.7759	-0.0801	0.78000	0.54671	31.295	5.657	0.37338	1496.8
17.5862	0.7764	-0.0687	0.77946	0.54972	31.504	5.686	0.37394	1499.1
17.1552	0.7769	-0.0574	0.77901	0.55275	31.682	5.710	0.37442	1501.2
16.7241	0.7773	-0.0460	0.77864	0.55580	31.830	5.731	0.37481	1502.8
16.2931	0.7776	-0.0346	0.77834	0.55892	31.947	5.747	0.37513	1504.1
15.8621	0.7778	-0.0232	0.77812	0.56212	32.032	5.758	0.37535	1505.1
15.4310	0.7779	-0.0116	0.77789	0.60343	32.085	5.765	0.37550	1505.7
15.0000	0.7779	0.0000	0.77794	0.61087	32.104	5.768	0.37555	1505.9

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=38.8332 ENTRPHY=34.3677
GAMMA (AVG.)=1.2994 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.8332	0.7790	-0.1025	0.78568	0.54693	47.049	6.118	0.34700	2080.8
38.4499	0.7796	-0.0922	0.78504	0.55335	47.476	6.160	0.34766	2085.2
38.0666	0.7802	-0.0820	0.78448	0.55969	47.856	6.198	0.34825	2089.0
37.6833	0.7807	-0.0718	0.78399	0.56600	48.191	6.231	0.34876	2092.4
37.2999	0.7811	-0.0616	0.78356	0.57229	48.482	6.260	0.34920	2095.3
36.9166	0.7815	-0.0514	0.78319	0.57859	48.730	6.285	0.34958	2097.7
36.5333	0.7818	-0.0412	0.78289	0.58492	48.934	6.305	0.34989	2099.8
36.1499	0.7820	-0.0310	0.78266	0.59129	49.096	6.321	0.35013	2101.3
35.7666	0.7822	-0.0208	0.78248	0.59772	49.214	6.333	0.35031	2102.5
35.3833	0.7823	-0.0104	0.78237	0.60424	49.287	6.340	0.35042	2103.2
35.0000	0.7823	0.0000	0.78233	0.61087	49.313	6.343	0.35046	2103.5

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=38.2557 ENTROPY=35.3899
GAMMA (AVG.)=1.1317 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
39.2557	0.7852	-0.0882	0.79019	0.55583	67.278	7.019	0.29797	2551.6
37.9301	0.7857	-0.0793	0.78971	0.56141	67.808	7.068	0.29829	2553.6
37.6046	0.7861	-0.0705	0.78929	0.56691	68.279	7.111	0.29857	2555.6
37.2790	0.7865	-0.0617	0.78892	0.57240	68.693	7.148	0.29882	2557.2
36.9534	0.7868	-0.0529	0.78861	0.57784	69.051	7.181	0.29902	2558.7
36.6278	0.7871	-0.0441	0.78834	0.58327	69.356	7.209	0.29920	2559.7
36.3023	0.7873	-0.0354	0.78812	0.58871	69.607	7.231	0.29933	2560.8
35.9767	0.7875	-0.0266	0.78794	0.59417	69.805	7.249	0.29944	2561.5
35.6511	0.7876	-0.0178	0.78781	0.59967	69.948	7.262	0.29954	2562.1
35.3255	0.7877	-0.0089	0.78774	0.60524	70.037	7.270	0.29959	2562.5
35.0000	0.7877	0.0000	0.78771	0.61087	70.068	7.273	0.29960	2562.6

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.6901 ENTROPY=36.3781
GAMMA (AVG.)=1.1220 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
37.6901	0.7913	-0.0736	0.79474	0.56512	91.229	8.311	0.26982	2832.3
37.4211	0.7916	-0.0662	0.79441	0.56975	91.822	8.358	0.27006	2834.1
37.1520	0.7919	-0.0588	0.79412	0.57433	92.349	8.400	0.27027	2835.9
36.8830	0.7922	-0.0514	0.79386	0.57888	92.813	8.437	0.27044	2837.3
36.6140	0.7924	-0.0441	0.79364	0.58341	93.216	8.469	0.27060	2838.4
36.3450	0.7926	-0.0368	0.79346	0.58794	93.557	8.496	0.27074	2839.6
36.0760	0.7928	-0.0295	0.79330	0.59247	93.839	8.519	0.27084	2840.3
35.8070	0.7929	-0.0222	0.79318	0.59701	94.060	8.536	0.27093	2841.1
35.5380	0.7930	-0.0148	0.79309	0.60159	94.220	8.548	0.27099	2841.8
35.2690	0.7930	-0.0074	0.79304	0.60620	94.318	8.556	0.27104	2842.1
35.0000	0.7930	-0.0000	0.79302	0.61086	94.354	8.559	0.27106	2842.2

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 17308.9 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.3132 ENTRPHY=37.3748

GAMMA (AVG.)=1.1430 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.3132	0.7953	-0.0686	0.79787	0.57162	118.871	9.529	0.25263	3105.1
37.0819	0.7956	-0.0572	0.79763	0.57540	119.533	9.574	0.25283	3107.0
36.8506	0.7958	-0.0509	0.79741	0.57935	120.123	9.615	0.25299	3108.7
36.6192	0.7960	-0.0445	0.79722	0.58327	120.642	9.650	0.25314	3110.3
36.3879	0.7961	-0.0382	0.79706	0.58719	121.093	9.682	0.25328	3111.4
36.1566	0.7963	-0.0318	0.79692	0.59109	121.475	9.709	0.25340	3112.4
35.9253	0.7964	-0.0255	0.79680	0.59501	121.790	9.730	0.25349	3113.3
35.6939	0.7965	-0.0192	0.79671	0.59893	122.038	9.748	0.25356	3114.0
35.4626	0.7965	-0.0128	0.79665	0.60288	122.217	9.761	0.25362	3114.3
35.2313	0.7966	-0.0064	0.79660	0.60686	122.327	9.768	0.25365	3114.7
35.0000	0.7966	0.0000	0.79659	0.61087	122.366	9.771	0.25365	3114.8

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 19472.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.0833 ENTRPHY=38.3923

GAMMA (AVG.)=1.1839 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0833	0.7978	-0.0575	0.79982	0.57530	150.198	10.490	0.24406	3426.7
36.8750	0.7980	-0.0517	0.79963	0.57887	150.948	10.533	0.24425	3429.3
36.6666	0.7981	-0.0460	0.79945	0.58243	151.617	10.573	0.24441	3430.8
36.4583	0.7983	-0.0402	0.79930	0.58596	152.208	10.608	0.24454	3432.5
36.2500	0.7984	-0.0345	0.79916	0.58949	152.720	10.638	0.24467	3434.2
36.0416	0.7985	-0.0288	0.79905	0.59302	153.155	10.663	0.24477	3435.4
35.8333	0.7986	-0.0231	0.79895	0.59655	153.513	10.685	0.24486	3436.4
35.6250	0.7987	-0.0173	0.79888	0.60010	153.795	10.702	0.24493	3437.0
35.4166	0.7987	-0.0116	0.79883	0.60366	153.998	10.713	0.24497	3437.7
35.2083	0.7988	-0.0058	0.79879	0.60725	154.123	10.721	0.24500	3437.9
35.0000	0.7988	-0.0000	0.79878	0.61086	154.168	10.724	0.24503	3438.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH N0.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.0001 ENTR0PY=39.4510
GAMMA (AVG.)=1.2244 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
17.0001	0.7986	-0.0552	0.80054	0.57672	185.206	10.895	0.24319	3905.3
16.8001	0.7988	-0.0497	0.80036	0.58015	186.093	10.937	0.24338	3908.6
16.6000	0.7990	-0.0442	0.80020	0.58355	186.884	10.974	0.24355	3911.4
16.4000	0.7991	-0.0387	0.80005	0.58695	187.582	11.007	0.24369	3914.0
16.2000	0.7992	-0.0332	0.79993	0.59033	188.188	11.035	0.24382	3916.3
16.0000	0.7993	-0.0277	0.79982	0.59372	188.703	11.060	0.24393	3917.8
15.8000	0.7994	-0.0222	0.79974	0.59712	189.126	11.079	0.24401	3919.8
15.6000	0.7995	-0.0166	0.79967	0.60052	189.459	11.095	0.24409	3920.7
15.4000	0.7995	-0.0111	0.79962	0.60394	189.700	11.106	0.24413	3921.6
15.2000	0.7996	-0.0056	0.79959	0.60739	189.848	11.112	0.24415	3922.3
15.0000	0.7996	-0.0000	0.79958	0.61086	189.901	11.115	0.24418	3922.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH N0.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=37.0379 ENTR0PY=40.6563
GAMMA (AVG.)=1.2001 STAG. ENTHALPY=2.8614E 08 F. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
37.0379	0.7982	-0.0563	0.80022	0.57607	223.883	10.706	0.24294	4640.3
36.8341	0.7984	-0.0506	0.80003	0.57957	224.977	10.751	0.24306	4643.3
36.6303	0.7986	-0.0450	0.79986	0.58304	225.955	10.791	0.24318	4646.1
36.4265	0.7987	-0.0394	0.79971	0.58650	226.817	10.827	0.24328	4648.4
36.2227	0.7989	-0.0338	0.79958	0.58995	227.565	10.857	0.24337	4650.5
36.0189	0.7990	-0.0282	0.79947	0.59341	228.201	10.883	0.24344	4652.2
35.8151	0.7991	-0.0226	0.79938	0.59686	228.724	10.905	0.24350	4653.7
35.6114	0.7991	-0.0169	0.79931	0.60033	229.135	10.921	0.24355	4654.8
35.4076	0.7992	-0.0113	0.79926	0.60382	229.432	10.934	0.24358	4655.5
35.2038	0.7992	-0.0057	0.79923	0.60733	229.615	10.941	0.24360	4656.1
35.0000	0.7992	-0.0000	0.79922	0.61086	229.680	10.943	0.24361	4656.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=36.9105 ENTRØPY=41.6412
GAMMA (AVG.)=1.1678 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.9105	0.7996	-0.0529	0.80132	0.57817	266.244	11.358	0.23203	5089.0
36.7194	0.7997	-0.0476	0.80115	0.58146	267.467	11.403	0.23214	5091.4
36.5284	0.7999	-0.0423	0.80100	0.58473	268.559	11.443	0.23224	5093.7
36.3373	0.8000	-0.0370	0.80087	0.58798	269.521	11.478	0.23233	5095.8
36.1463	0.8001	-0.0317	0.80076	0.59123	270.356	11.509	0.23240	5097.4
35.9552	0.8002	-0.0265	0.80066	0.59447	271.065	11.535	0.23247	5098.9
35.7642	0.8003	-0.0212	0.80058	0.59772	271.649	11.557	0.23252	5099.9
35.5731	0.8004	-0.0159	0.80052	0.60098	272.107	11.574	0.23256	5100.9
35.3821	0.8004	-0.0106	0.80048	0.60425	272.438	11.586	0.23259	5101.6
35.1910	0.8004	-0.0053	0.80045	0.60755	272.641	11.594	0.23261	5102.0
35.0000	0.8004	-0.0000	0.80044	0.61086	272.714	11.596	0.23262	5102.2

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=36.8034 ENTRØPY=42.7169
GAMMA (AVG.)=1.1489 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.8034	0.8007	-0.0500	0.80226	0.57996	312.294	11.978	0.22363	5472.1
36.6230	0.8008	-0.0450	0.80211	0.58307	313.645	12.023	0.22373	5474.6
36.4427	0.8010	-0.0400	0.80197	0.58616	314.858	12.064	0.22381	5476.7
36.2623	0.8011	-0.0350	0.80186	0.58924	315.924	12.100	0.22389	5478.3
36.0820	0.8012	-0.0300	0.80175	0.59231	316.850	12.130	0.22396	5479.9
35.9017	0.8013	-0.0250	0.80167	0.59538	317.635	12.157	0.22402	5481.2
35.7213	0.8013	-0.0200	0.80160	0.59845	318.281	12.178	0.22406	5482.3
35.5410	0.8014	-0.0151	0.80154	0.60153	318.788	12.195	0.22410	5483.1
35.3606	0.8014	-0.0101	0.80150	0.60462	319.155	12.208	0.22413	5483.6
35.1803	0.8015	-0.0050	0.80148	0.60773	319.379	12.215	0.22414	5484.1
35.0000	0.8015	-0.0000	0.80147	0.61086	319.459	12.218	0.22415	5484.1

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30240.6 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=36.7029 ENTRØPY=43.8152
GAMMA (AVG.)=1.1369 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.7029	0.8017	-0.0473	0.80314	0.58164	362.031	12.633	0.21621	5792.4
36.5326	0.8019	-0.0426	0.80301	0.58458	363.515	12.677	0.21630	5794.6
36.3623	0.8020	-0.0378	0.80289	0.58751	364.840	12.718	0.21638	5796.6
36.1920	0.8021	-0.0331	0.80278	0.59042	366.007	12.754	0.21645	5798.1
36.0217	0.8022	-0.0284	0.80269	0.59332	367.020	12.785	0.21651	5799.4
35.8514	0.8023	-0.0237	0.80261	0.59623	367.880	12.811	0.21656	5800.6
35.6811	0.8023	-0.0190	0.80255	0.59913	368.587	12.833	0.21660	5801.6
35.5108	0.8024	-0.0142	0.80250	0.60204	369.142	12.850	0.21663	5802.4
35.3406	0.8024	-0.0095	0.80246	0.60497	369.542	12.862	0.21666	5802.9
35.1703	0.8024	-0.0048	0.80244	0.60790	369.788	12.870	0.21667	5803.3
35.0000	0.8024	-0.0000	0.80243	0.61086	369.876	12.872	0.21668	5803.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=36.6111 ENTRØPY=44.9363
GAMMA (AVG.)=1.1310 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.6111	0.8027	-0.0448	0.80395	0.58319	415.456	13.303	0.20980	6061.9
36.4500	0.8028	-0.0403	0.80383	0.58598	417.066	13.348	0.20988	6063.8
36.2889	0.8029	-0.0358	0.80372	0.58874	418.504	13.389	0.20995	6065.6
36.1278	0.8030	-0.0314	0.80363	0.59150	419.772	13.424	0.21001	6067.1
35.9667	0.8031	-0.0269	0.80355	0.59425	420.872	13.455	0.21007	6068.3
35.8055	0.8032	-0.0224	0.80348	0.59700	421.806	13.482	0.21011	6069.5
35.6444	0.8032	-0.0180	0.80342	0.59976	422.573	13.503	0.21015	6070.3
35.4833	0.8033	-0.0135	0.80338	0.60251	423.175	13.520	0.21018	6071.1
35.3222	0.8033	-0.0090	0.80335	0.60528	423.610	13.532	0.21020	6071.7
35.1611	0.8033	-0.0045	0.80333	0.60806	423.876	13.540	0.21022	6072.0
35.0000	0.8033	-0.0000	0.80332	0.61086	423.971	13.543	0.21022	6072.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=36.4285 ENTRØPY=47.8450
GAMMA (AVG.)=1.1372 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.4285	0.8046	-0.0399	0.80559	0.58629	565.144	14.895	0.19818	6619.6
36.2856	0.8047	-0.0359	0.80549	0.58876	567.084	14.939	0.19825	6621.6
36.1428	0.8048	-0.0319	0.80541	0.59122	568.816	14.980	0.19831	6623.1
35.9999	0.8048	-0.0279	0.80533	0.59367	570.344	15.015	0.19837	6624.5
35.8571	0.8049	-0.0239	0.80527	0.59611	571.670	15.046	0.19842	6625.8
35.7142	0.8050	-0.0199	0.80521	0.59856	572.795	15.072	0.19846	6626.9
35.5714	0.8050	-0.0160	0.80517	0.60100	573.720	15.093	0.19849	6627.7
35.4285	0.8050	-0.0120	0.80513	0.60345	574.445	15.110	0.19851	6628.3
35.2857	0.8051	-0.0080	0.80511	0.60591	574.968	15.122	0.19853	6629.0
35.1428	0.8051	-0.0040	0.80509	0.60838	575.288	15.129	0.19855	6629.3
35.0000	0.8051	-0.0000	0.80508	0.61086	575.402	15.132	0.19855	6629.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=36.3235 ENTRØPY=50.8888
GAMMA (AVG.)=1.1583 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.3235	0.8057	-0.0370	0.80653	0.58808	737.865	16.012	0.19258	7238.6
36.1911	0.8058	-0.0333	0.80645	0.59037	740.207	16.055	0.19264	7240.8
36.0588	0.8058	-0.0296	0.80638	0.59265	742.300	16.094	0.19270	7242.7
35.9264	0.8059	-0.0259	0.80632	0.59492	744.147	16.129	0.19276	7244.4
35.7941	0.8060	-0.0222	0.80626	0.59718	745.750	16.159	0.19280	7246.0
35.6617	0.8060	-0.0185	0.80621	0.59945	747.110	16.184	0.19284	7247.2
35.5294	0.8060	-0.0148	0.80617	0.60172	748.228	16.206	0.19287	7248.1
35.3970	0.8061	-0.0111	0.80614	0.60399	749.104	16.222	0.19289	7249.1
35.2647	0.8061	-0.0074	0.80612	0.60627	749.736	16.234	0.19291	7249.7
35.1323	0.8061	-0.0037	0.80611	0.60856	751.122	16.241	0.19292	7250.0
35.0000	0.8061	-0.0000	0.80610	0.61086	750.260	16.243	0.19293	7250.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=48.4793 ENTROPY=30.8801
GAMMA (AVG.)=1.3851 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.4793	0.6628	-0.2470	0.70731	0.48940	5.733	3.031	0.70084	511.8
47.1814	0.6672	-0.2224	0.70333	0.50514	5.840	3.072	0.70771	514.4
46.2834	0.6712	-0.1981	0.69985	0.52078	5.935	3.107	0.71380	516.7
45.1855	0.6747	-0.1739	0.69680	0.53634	6.018	3.139	0.71919	518.7
44.0876	0.6778	-0.1498	0.69414	0.55201	6.090	3.166	0.72392	520.4
42.9896	0.6805	-0.1255	0.69186	0.56789	6.153	3.190	0.72801	521.9
41.8917	0.6825	-0.1011	0.68995	0.58411	6.205	3.209	0.73146	523.1
40.7938	0.6842	-0.0764	0.68842	0.60076	6.248	3.225	0.73424	524.1
39.6958	0.6853	-0.0514	0.68726	0.61797	6.279	3.237	0.73633	524.9
38.5979	0.6860	-0.0260	0.68652	0.63583	6.299	3.244	0.73765	525.3
37.5000	0.6862	0.0000	0.68623	0.65450	6.307	3.247	0.73815	525.5

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7450E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=45.3852 ENTROPY=31.3726
GAMMA (AVG.)=1.3666 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.3852	0.7023	-0.1885	0.72713	0.52991	9.345	3.776	0.56394	609.5
44.5967	0.7047	-0.1696	0.72484	0.54215	9.485	3.818	0.56712	672.2
43.8081	0.7069	-0.1509	0.72283	0.55422	9.610	3.854	0.56993	674.5
43.0196	0.7088	-0.1324	0.72107	0.56624	9.719	3.886	0.57241	676.6
42.2311	0.7105	-0.1138	0.71954	0.57827	9.814	3.914	0.57456	678.4
41.4426	0.7119	-0.0952	0.71824	0.59039	9.896	3.938	0.57640	679.9
40.6541	0.7131	-0.0765	0.71715	0.60266	9.964	3.958	0.57794	681.1
39.8655	0.7140	-0.0577	0.71628	0.61514	10.018	3.974	0.57916	682.1
39.0770	0.7146	-0.0387	0.71564	0.62790	10.058	3.985	0.58007	682.9
38.2885	0.7150	-0.0195	0.71523	0.64099	10.084	3.993	0.58063	683.3
37.5000	0.7151	0.0000	0.71507	0.65450	10.093	3.995	0.58084	683.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=43.9140 ENTRØPY=31.9283
GAMMA (AVG.)=1.3460 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.0601	0.7306	-0.1390	0.74371	0.56355	19.712	4.912	0.45273	1085.7
42.5041	0.7319	-0.1250	0.74249	0.57261	19.938	4.955	0.45418	1083.8
41.9481	0.7330	-0.1112	0.74140	0.58157	20.138	4.992	0.45547	1091.5
41.3920	0.7340	-0.0974	0.74045	0.59048	20.315	5.025	0.45660	1093.8
40.8360	0.7349	-0.0837	0.73962	0.59937	20.469	5.054	0.45758	1095.9
40.2800	0.7356	-0.0699	0.73892	0.60829	20.600	5.078	0.45841	1097.6
39.7240	0.7362	-0.0561	0.73834	0.61727	20.708	5.098	0.45910	1099.0
39.1680	0.7367	-0.0422	0.73788	0.62634	20.795	5.114	0.45964	1100.1
38.6120	0.7370	-0.0283	0.73754	0.63555	20.858	5.126	0.46004	1101.0
38.0560	0.7372	-0.0142	0.73733	0.64493	20.897	5.133	0.46029	1101.5
37.5000	0.7372	0.0000	0.73725	0.65450	20.911	5.136	0.46038	1101.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=43.0601 ENTRØPY=32.5009
GAMMA (AVG.)=1.3287 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.0601	0.7306	-0.1390	0.74371	0.56355	19.712	4.912	0.45273	1085.7
42.5041	0.7319	-0.1250	0.74249	0.57261	19.938	4.955	0.45418	1083.8
41.9481	0.7330	-0.1112	0.74140	0.58157	20.138	4.992	0.45547	1091.5
41.3920	0.7340	-0.0974	0.74045	0.59048	20.315	5.025	0.45660	1093.8
40.8360	0.7349	-0.0837	0.73962	0.59937	20.469	5.054	0.45758	1095.9
40.2800	0.7356	-0.0699	0.73892	0.60829	20.600	5.078	0.45841	1097.6
39.7240	0.7362	-0.0561	0.73834	0.61727	20.708	5.098	0.45910	1099.0
39.1680	0.7367	-0.0422	0.73788	0.62634	20.795	5.114	0.45964	1100.1
38.6120	0.7370	-0.0283	0.73754	0.63555	20.858	5.126	0.46004	1101.0
38.0560	0.7372	-0.0142	0.73733	0.64493	20.897	5.133	0.46029	1101.5
37.5000	0.7372	0.0000	0.73725	0.65450	20.911	5.136	0.46038	1101.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.1211 ENTROPY=33.6206
GAMMA AVG. I=1.3074 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.1211	0.7417	-0.1176	0.75098	0.57793	34.239	5.704	0.40512	1624.1
41.6590	0.7426	-0.1058	0.75010	0.58559	34.574	5.747	0.40609	1627.8
41.1969	0.7434	-0.0941	0.74933	0.59316	34.872	5.784	0.40695	1631.1
40.7348	0.7441	-0.0824	0.74865	0.60070	35.134	5.818	0.40771	1634.0
40.2726	0.7447	-0.0707	0.74806	0.60822	35.362	5.846	0.40837	1636.5
39.8105	0.7452	-0.0590	0.74756	0.61575	35.556	5.871	0.40892	1638.6
39.3484	0.7456	-0.0474	0.74715	0.62332	35.717	5.891	0.40938	1640.3
38.8863	0.7460	-0.0356	0.74682	0.63096	35.844	5.907	0.40974	1641.7
38.4242	0.7462	-0.0238	0.74658	0.63868	35.937	5.919	0.41001	1642.7
37.9621	0.7463	-0.0120	0.74643	0.64652	35.994	5.926	0.41017	1643.3
37.5000	0.7464	0.0000	0.74637	0.65450	36.015	5.929	0.41023	1643.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=41.6328 ENTROPY=34.6616
GAMMA AVG. I=1.2972 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.6328	0.7474	-0.1061	0.75490	0.58558	52.921	6.240	0.37982	2287.2
41.2196	0.7481	-0.0955	0.75420	0.59248	53.389	6.303	0.38059	2291.9
40.8063	0.7488	-0.0849	0.75357	0.59932	53.805	6.341	0.38128	2296.0
40.3930	0.7493	-0.0743	0.75301	0.60611	54.173	6.374	0.38188	2299.5
39.9797	0.7498	-0.0638	0.75254	0.61290	54.492	6.403	0.38239	2302.6
39.5664	0.7502	-0.0533	0.75213	0.61969	54.764	6.427	0.38283	2305.3
39.1531	0.7506	-0.0427	0.75179	0.62651	54.988	6.448	0.38320	2307.4
38.7398	0.7508	-0.0321	0.75153	0.63338	55.166	6.464	0.38346	2309.1
38.3266	0.7510	-0.0215	0.75134	0.64032	55.295	6.475	0.38369	2310.4
37.9133	0.7511	-0.0108	0.75121	0.64735	55.375	6.483	0.38382	2311.1
37.5000	0.7512	-0.0000	0.75117	0.65450	55.404	6.485	0.38387	2311.4

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=40.8379 ENTROPY=35.7551
GAMMA (AVG.)=1.1240 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.8379	0.7566	-0.0872	0.76157	0.59799	75.709	7.498	3.31685	2657.8
40.5041	0.7570	-0.0784	0.76108	0.60371	76.263	7.546	0.31720	2659.8
40.1703	0.7575	-0.0697	0.76066	0.60937	76.754	7.588	0.31750	2661.8
39.8365	0.7578	-0.0610	0.76029	0.61498	77.186	7.626	0.31776	2663.3
39.5027	0.7582	-0.0523	0.75996	0.62057	77.561	7.658	0.31799	2664.5
39.1689	0.7584	-0.0436	0.75969	0.62616	77.879	7.686	0.31818	2665.6
38.8351	0.7587	-0.0350	0.75946	0.63175	78.141	7.706	0.31834	2666.6
38.5013	0.7588	-0.0263	0.75929	0.63736	78.347	7.726	0.31848	2667.2
38.1676	0.7590	-0.0176	0.75916	0.64302	78.497	7.738	0.31857	2668.1
37.8338	0.7590	-0.0088	0.75908	0.64873	78.589	7.747	0.31863	2668.3
37.5000	0.7590	0.0000	0.75905	0.65451	78.622	7.750	0.31865	2668.4

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=40.2669 ENTROPY=36.8059
GAMMA (AVG.)=1.1278 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2669	0.7630	-0.0730	0.76652	0.60741	102.688	8.854	0.28880	2948.3
39.9903	0.7634	-0.0657	0.76619	0.61216	103.309	8.900	0.28906	2950.1
39.7136	0.7637	-0.0583	0.76589	0.61687	103.862	8.942	0.28930	2951.7
39.4369	0.7639	-0.0511	0.76563	0.62156	104.349	8.979	0.28951	2953.1
39.1602	0.7641	-0.0438	0.76540	0.62622	104.771	9.010	0.28969	2954.4
38.8835	0.7643	-0.0365	0.76521	0.63088	105.129	9.037	0.28983	2955.4
38.6068	0.7645	-0.0293	0.76506	0.63555	105.424	9.058	0.28995	2956.5
38.3301	0.7646	-0.0220	0.76493	0.64024	105.656	9.076	0.29004	2957.0
38.0534	0.7647	-0.0147	0.76484	0.64495	105.824	9.089	0.29012	2957.5
37.7767	0.7648	-0.0074	0.76479	0.64970	105.927	9.097	0.29016	2957.7
37.5000	0.7648	-0.0000	0.76476	0.65449	105.964	9.100	0.29018	2957.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRAPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=39.9061 ENTRAPY=37.8718
GAMMA (AVG.)=1.1614 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.9061	0.7671	-0.0639	0.76975	0.61344	133.823	10.047	0.27323	3252.6
39.5655	0.7673	-0.0574	0.76949	0.61758	134.524	10.093	0.27345	3254.5
39.4249	0.7676	-0.0511	0.76927	0.62168	135.150	10.133	0.27365	3256.3
39.1043	0.7678	-0.0447	0.76907	0.62576	135.701	10.169	0.27383	3257.7
38.9437	0.7679	-0.0383	0.76890	0.62983	136.180	10.199	0.27399	3259.3
38.7031	0.7681	-0.0320	0.76875	0.63390	136.586	10.225	0.27411	3260.3
38.4624	0.7682	-0.0256	0.76863	0.63797	136.921	10.246	0.27422	3261.5
38.2218	0.7683	-0.0192	0.76854	0.64206	137.184	10.264	0.27431	3261.8
37.9812	0.7684	-0.0129	0.76847	0.64617	137.374	10.276	0.27436	3262.7
37.7406	0.7684	-0.0064	0.76842	0.65031	137.491	10.283	0.27439	3262.8
37.5000	0.7684	-0.0000	0.76841	0.65448	137.533	10.286	0.27441	3262.8

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRAPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=39.7196 ENTRAPY=38.9705
GAMMA (AVG.)=1.2094 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7196	0.7692	-0.0591	0.77144	0.61661	169.115	10.821	0.26775	3657.0
39.4976	0.7694	-0.0531	0.77123	0.62042	169.931	10.865	0.26796	3659.3
39.2757	0.7696	-0.0472	0.77103	0.62420	170.658	10.903	0.26815	3661.8
39.0537	0.7698	-0.0413	0.77086	0.62796	171.301	10.937	0.26833	3663.9
38.8317	0.7699	-0.0355	0.77072	0.63172	171.858	10.967	0.26846	3665.2
38.6098	0.7700	-0.0296	0.77059	0.63548	172.332	10.992	0.26860	3666.8
38.3878	0.7701	-0.0237	0.77049	0.63925	172.722	11.013	0.26869	3667.8
38.1658	0.7702	-0.0178	0.77041	0.64302	173.028	11.029	0.26877	3668.8
37.9439	0.7703	-0.0119	0.77035	0.64682	173.249	11.041	0.26882	3669.5
37.7219	0.7703	-0.0060	0.77031	0.65064	173.385	11.047	0.26886	3670.1
37.5000	0.7703	-0.0000	0.77030	0.65449	173.434	11.050	0.26888	3670.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.8002 ENTROPY=40.3023
GAMMA (AVG.)=1.2191 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8002	0.7683	-0.0611	0.77071	0.61528	208.554	10.476	0.27356	4443.2
39.5702	0.7685	-0.0550	0.77047	0.61922	209.597	10.520	0.27374	4446.3
39.3401	0.7687	-0.0489	0.77027	0.62313	210.528	10.559	0.27390	4449.2
39.1101	0.7689	-0.0428	0.77009	0.62703	211.350	10.594	0.27404	4451.8
38.8801	0.7691	-0.0367	0.76993	0.63092	212.063	10.623	0.27416	4454.0
38.6501	0.7692	-0.0306	0.76980	0.63481	212.669	10.649	0.27426	4455.9
38.4201	0.7693	-0.0245	0.76969	0.63870	213.168	10.670	0.27435	4457.3
38.1900	0.7694	-0.0184	0.76960	0.64261	213.560	10.686	0.27441	4458.5
37.9600	0.7694	-0.0123	0.76954	0.64655	213.844	10.698	0.27446	4459.2
37.7300	0.7695	-0.0062	0.76950	0.65050	214.018	10.705	0.27449	4459.9
37.5000	0.7695	-0.0000	0.76948	0.65450	214.080	10.708	0.27450	4460.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.6451 ENTROPY=41.3020
GAMMA (AVG.)=1.1759 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6451	0.7700	-0.0572	0.77213	0.61783	252.124	11.161	0.25935	4950.9
39.4305	0.7702	-0.0514	0.77193	0.62152	253.303	11.206	0.25949	4953.5
39.2160	0.7704	-0.0457	0.77175	0.62518	254.356	11.246	0.25962	4955.9
39.0015	0.7705	-0.0400	0.77159	0.62883	255.285	11.281	0.25973	4958.0
38.7870	0.7707	-0.0343	0.77145	0.63247	256.09.	11.312	0.25983	4959.7
38.5725	0.7708	-0.0286	0.77133	0.63611	256.775	11.338	0.25991	4961.1
38.3580	0.7709	-0.0229	0.77124	0.63975	257.338	11.360	0.25997	4962.4
38.1435	0.7710	-0.0172	0.77116	0.64341	257.780	11.377	0.26003	4963.4
37.9290	0.7710	-0.0115	0.77111	0.64708	258.100	11.389	0.26006	4964.1
37.7145	0.7711	-0.0058	0.77107	0.65077	258.296	11.396	0.26009	4964.5
37.5000	0.7711	-0.0000	0.77106	0.65450	258.366	11.399	0.26010	4964.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=39.5161 ENTRØPY=42.4322
GAMMA (AVG.)=1.1531 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.5161	0.7714	-0.0539	0.77332	0.61997	299.847	11.812	0.24895	5378.0
39.3145	0.7716	-0.0485	0.77314	0.62344	301.167	11.857	0.24908	5380.4
39.1129	0.7718	-0.0431	0.77298	0.62689	302.346	11.897	0.24919	5382.4
38.9113	0.7719	-0.0377	0.77284	0.63033	303.385	11.933	0.24929	5384.3
38.7096	0.7720	-0.0323	0.77272	0.63376	304.287	11.964	0.24937	5385.9
38.5080	0.7721	-0.0270	0.77262	0.63719	305.053	11.990	0.24944	5387.3
38.3064	0.7722	-0.0216	0.77253	0.64062	305.683	12.012	0.24950	5388.3
38.1048	0.7723	-0.0162	0.77244	0.64406	306.177	12.029	0.24954	5389.2
37.9032	0.7723	-0.0108	0.77241	0.64751	306.534	12.041	0.24957	5389.7
37.7016	0.7724	-0.0054	0.77238	0.65099	306.753	12.048	0.24959	5390.2
37.5000	0.7724	-0.0000	0.77237	0.65449	306.832	12.051	0.24960	5390.3

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=39.396.. ENTRØPY=43.5923
GAMMA (AVG.)=1.1388 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.3962	0.7728	-0.0508	0.77444	0.62198	351.726	12.499	0.23991	5732.5
39.2066	0.7729	-0.0457	0.77428	0.62525	353.184	12.544	0.24002	5734.6
39.0169	0.7731	-0.0406	0.77414	0.62850	354.486	12.585	0.24011	5736.4
38.8273	0.7732	-0.0355	0.77401	0.63174	355.633	12.621	0.24020	5738.1
38.6377	0.7733	-0.0305	0.77391	0.63497	356.628	12.652	0.24027	5739.5
38.4481	0.7734	-0.0254	0.77381	0.63820	357.474	12.678	0.24034	5740.8
38.2585	0.7735	-0.0203	0.77374	0.64144	358.169	12.700	0.24039	5741.6
38.0688	0.7735	-0.0153	0.77368	0.64468	358.714	12.717	0.24043	5742.5
37.8792	0.7736	-0.0102	0.77363	0.64793	359.107	12.729	0.24046	5743.1
37.6896	0.7736	-0.0051	0.77361	0.65120	359.349	12.736	0.24047	5743.4
37.5000	0.7736	-0.0000	0.77360	0.65450	359.435	12.739	0.24048	5743.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRAPPV=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.2866 ENTRAPPV=44.7781
GAMMA (AVG.)=1.1315 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CCU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRAPPV=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.1895 ENTRAPPV=45.9909
GAMMA (AVG.)=1.1303 STAG. ENTHALPY=5.2996E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHM	MU	T (K)
39.2866	0.7740	-0.0479	0.77547	0.62382	407.757	13.209	0.23212	6026.6
39.1079	0.7741	-0.0431	0.77533	0.62691	409.350	13.254	0.23222	6028.6
38.9293	0.7743	-0.0383	0.77520	0.62998	410.772	13.299	0.23231	6030.2
38.7506	0.7744	-0.0335	0.77509	0.63303	412.025	13.330	0.23238	6031.9
38.5719	0.7745	-0.0288	0.77499	0.63608	413.113	13.362	0.23245	6033.1
38.3933	0.7745	-0.0240	0.77491	0.63913	414.036	13.388	0.23251	6034.3
38.2146	0.7746	-0.0192	0.77484	0.64218	414.799	13.409	0.23255	6035.1
38.0359	0.7747	-0.0144	0.77479	0.64524	415.390	13.426	0.23259	6035.8
37.8573	0.7747	-0.0096	0.77475	0.64831	415.820	13.439	0.23261	6036.3
37.6786	0.7747	-0.0048	0.77473	0.65139	416.084	13.446	0.23263	6036.6
37.5000	0.7747	-0.0000	0.77472	0.65450	416.178	13.449	0.23264	6036.9

ETA	VR	VN	V	THETA	P	RHM	MU	T (K)
39.1895	0.7751	-0.0454	0.77639	0.62546	467.940	13.915	0.22561	6278.6
39.0209	0.7752	-0.0409	0.77626	0.62838	469.668	13.961	0.22570	6280.4
38.8516	0.7753	-0.0363	0.77615	0.63129	471.211	14.001	0.22578	6282.1
38.6826	0.7754	-0.0318	0.77605	0.63418	472.572	14.037	0.22585	6283.6
38.5137	0.7755	-0.0272	0.77596	0.63707	473.753	14.068	0.22591	6284.8
38.3447	0.7756	-0.0227	0.77589	0.63995	474.754	14.094	0.22596	6285.9
38.1758	0.7756	-0.0182	0.77583	0.64284	475.578	14.115	0.22601	6286.8
38.0068	0.7757	-0.0137	0.77578	0.64574	476.224	14.132	0.22604	6287.5
37.8379	0.7757	-0.0091	0.77575	0.64864	476.690	14.144	0.22606	6288.0
37.6689	0.7757	-0.0046	0.77572	0.65156	476.975	14.152	0.22608	6288.3
37.5000	0.7757	-0.0000	0.77572	0.65450	477.077	14.155	0.22609	6288.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=15,000.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37869.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=39.0103 ENTRPHY=49.1392
GAMMA (AVG.)=1.1458 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

CL	VR	VN	V	THETA	P	RHB	MU	T (K)
15.0103	0.7770	-0.0407	0.77810	0.62851	636.566	15.461	0.21479	6861.0
16.5503	0.7771	-0.0366	0.77800	0.63112	638.665	15.505	0.21487	6862.8
18.1082	0.7772	-0.0326	0.77790	0.63372	640.539	15.545	0.21494	6864.5
19.5572	0.7773	-0.0285	0.77782	0.63631	642.193	15.580	0.21500	6865.9
21.0062	0.7774	-0.0244	0.77775	0.63890	643.629	15.611	0.21506	6867.3
22.2551	0.7774	-0.0204	0.77770	0.64148	644.847	15.636	0.21510	6868.5
23.1041	0.7775	-0.0163	0.77765	0.64407	645.848	15.658	0.21514	6869.4
24.9531	0.7775	-0.0122	0.77761	0.64666	646.632	15.674	0.21517	6870.2
27.8020	0.7775	-0.0082	0.77758	0.64926	647.199	15.686	0.21519	6870.6
31.6510	0.7775	-0.0041	0.77756	0.65187	647.545	15.694	0.21520	6870.9
37.5000	0.7776	0.0000	0.77756	0.65450	647.668	15.696	0.21521	6871.1

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRPHY=50.3778

FLOW PROPERTIES

SHOCK ANGLE=38.9329 ENTRPHY=52.4176
GAMMA (AVG.)=1.1663 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

CL	VR	VN	V	THETA	P	RHB	MU	T (K)
38.9329	0.7779	-0.0387	0.77884	0.62983	831.135	16.249	0.21109	7655.6
38.7896	0.7780	-0.0346	0.77875	0.63231	833.732	16.292	0.21117	7658.1
38.6463	0.7781	-0.0309	0.77867	0.63477	836.053	16.331	0.21124	7660.4
38.5030	0.7781	-0.0271	0.77860	0.63723	838.100	16.365	0.21130	7662.4
38.3597	0.7782	-0.0232	0.77853	0.63969	839.878	16.394	0.21135	7664.1
38.2164	0.7782	-0.0194	0.77848	0.64214	841.366	16.420	0.21140	7665.6
38.0731	0.7783	-0.0155	0.77844	0.64460	842.626	16.440	0.21143	7666.9
37.9299	0.7783	-0.0116	0.77840	0.64706	843.597	16.456	0.21146	7667.8
37.7866	0.7783	-0.0078	0.77838	0.64953	844.298	16.468	0.21148	7668.3
37.6433	0.7784	-0.0039	0.77836	0.65200	844.727	16.475	0.21149	7668.9
37.5000	0.7784	-0.0000	0.77836	0.65450	844.880	16.478	0.21150	7669.0

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=51.6751 ENTRØPY=30.9620
GAMMA (AVG.)=1.3823 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.6751	0.6200	-0.2469	0.66738	0.52288	6.313	3.176	0.77522	537.7
50.5076	0.6247	-0.2224	0.66316	0.53947	6.426	3.217	0.78375	540.4
49.3400	0.6290	-0.1982	0.65946	0.55593	6.525	3.253	0.79136	542.7
48.1725	0.6327	-0.1740	0.65621	0.57240	6.612	3.284	0.79814	544.7
47.0050	0.6360	-0.1498	0.65338	0.58903	6.688	3.312	0.80411	546.4
45.8375	0.6387	-0.1256	0.65095	0.60592	6.754	3.335	0.80930	547.9
44.6700	0.6410	-0.1011	0.64891	0.62318	6.809	3.355	0.81368	549.1
43.5025	0.6427	-0.0764	0.64727	0.64092	6.853	3.371	0.81723	550.1
42.3350	0.6440	-0.0514	0.64605	0.65924	6.886	3.382	0.81989	550.8
41.1675	0.6447	-0.0260	0.64526	0.67827	6.907	3.390	0.82158	551.3
40.0000	0.6449	0.0000	0.64495	0.69813	6.915	3.393	0.82221	551.5

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=48.3894 ENTRØPY=31.4985
GAMMA (AVG.)=1.3617 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.3894	0.6640	-0.1902	0.69070	0.56563	10.337	3.931	0.61750	711.4
47.5505	0.6666	-0.1712	0.68824	0.57857	10.486	3.973	0.62129	714.1
46.7115	0.6690	-0.1523	0.68608	0.59138	10.617	4.010	0.62465	716.5
45.8726	0.6710	-0.1336	0.68419	0.60415	10.734	4.042	0.62762	718.5
45.0336	0.6728	-0.1148	0.68255	0.61695	10.835	4.070	0.63020	720.3
44.1947	0.6743	-0.0961	0.68114	0.62985	10.921	4.093	0.63242	721.8
43.3558	0.6756	-0.0772	0.67997	0.64292	10.994	4.113	0.63427	723.1
42.5168	0.6765	-0.0582	0.67904	0.65622	11.051	4.129	0.63574	724.1
41.6779	0.6772	-0.0391	0.67835	0.66981	11.094	4.141	0.63683	724.8
40.8389	0.6776	-0.0197	0.67791	0.68376	11.120	4.148	0.63751	725.3
40.0000	0.6777	0.0000	0.67774	0.69813	11.130	4.151	0.63776	725.5

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=46.8454 ENTRPHY=32.0920
GAMMA (AVG.)=1.3406 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6450.0 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=45.9521 ENTRPHY=32.6961
GAMMA (AVG.)=1.3240 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)	ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
46.7454	0.6839	-0.1602	0.70243	0.58756	15.537	4.554	0.54068	923.0	45.9521	0.6952	-0.1418	0.70955	0.60080	21.900	5.068	0.49485	1169.1
46.1609	0.6857	-0.1441	0.70071	0.59849	15.729	4.596	0.54304	925.9	45.8568	0.6966	-0.1276	0.70821	0.61047	22.143	5.111	0.49656	1172.2
45.4763	0.6873	-0.1282	0.69919	0.60930	15.900	4.633	0.54313	926.4	44.7616	0.6979	-0.1135	0.70702	0.62004	22.358	5.148	0.49808	1175.0
44.7918	0.6888	-0.1124	0.69786	0.62006	16.050	4.666	0.54696	930.6	44.1644	0.6989	-0.0994	0.70598	0.62956	22.548	5.181	0.49941	1177.5
44.1072	0.6900	-0.0965	0.69670	0.63082	16.181	4.694	0.54856	932.6	43.9712	0.6999	-0.0854	0.70508	0.63908	22.713	5.210	0.50057	1179.6
43.4227	0.6910	-0.0807	0.69572	0.64164	16.293	4.719	0.54992	934.2	42.9760	0.7007	-0.0713	0.70431	0.64863	22.854	5.234	0.50155	1181.3
42.7382	0.6919	-0.0648	0.69490	0.65256	16.386	4.739	0.55105	935.5	42.3808	0.7013	-0.0572	0.70368	0.65825	22.971	5.254	0.50237	1182.8
42.0536	0.6925	-0.0488	0.69425	0.66362	16.460	4.755	0.55194	936.6	41.7856	0.7019	-0.0431	0.70317	0.66797	23.063	5.270	0.50301	1184.0
41.3691	0.6930	-0.0327	0.69377	0.67487	16.514	4.766	0.55260	937.4	41.1904	0.7022	-0.0289	0.70280	0.67783	23.131	5.282	0.50348	1184.8
40.6845	0.6933	-0.0164	0.69347	0.68636	16.548	4.774	0.55301	937.9	40.5952	0.7024	-0.0145	0.70257	0.68788	23.173	5.289	0.50378	1185.4
40.0000	0.6934	-0.0000	0.69335	0.69813	16.560	4.776	0.55316	938.1	40.0000	0.7025	-0.0000	0.70248	0.69813	23.188	5.292	0.50388	1185.5

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRBPPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=44.9753 ENTRBPPY=33.8642
GAMMA (AVG.)=1.3044 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.9753	0.7074	-0.1209	0.71765	0.61573	38.106	5.847	0.44363	1763.2
44.4778	0.7084	-0.1088	0.71688	0.62395	38.469	5.890	0.44478	1767.1
43.9802	0.7093	-0.0967	0.71583	0.63210	38.792	5.928	0.44580	1770.5
43.4827	0.7100	-0.0847	0.71507	0.64020	39.076	5.961	0.44670	1773.5
42.9852	0.7107	-0.0727	0.71442	0.64829	39.323	5.990	0.44747	1776.1
42.4876	0.7113	-0.0607	0.71387	0.65640	39.533	6.015	0.44813	1778.3
41.9901	0.7117	-0.0487	0.71341	0.66456	39.708	6.035	0.44868	1780.2
41.4926	0.7121	-0.0366	0.71305	0.67278	39.845	6.051	0.44911	1781.6
40.9950	0.7124	-0.0245	0.71278	0.68110	39.946	6.063	0.44942	1782.7
40.4975	0.7125	-0.0123	0.71262	0.68954	40.008	6.070	0.44962	1783.3
40.0000	0.7126	0.0000	0.71255	0.69813	40.030	6.073	0.44969	1783.5

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRBPPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=44.3122 ENTRBPPY=34.9998
GAMMA (AVG.)=1.1520 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.3122	0.7155	-0.1065	0.72341	0.62570	58.909	6.562	0.38538	2419.6
43.8810	0.7163	-0.0957	0.72265	0.63302	59.409	6.609	0.38597	2422.6
43.4498	0.7170	-0.0851	0.72199	0.64026	59.854	6.650	0.38646	2425.3
43.0186	0.7176	-0.0745	0.72140	0.64743	60.244	6.687	0.38693	2427.5
42.5873	0.7181	-0.0639	0.72090	0.65457	60.582	6.719	0.38729	2429.3
42.1561	0.7185	-0.0533	0.72047	0.66171	60.870	6.745	0.38763	2431.0
41.7249	0.7188	-0.0427	0.72012	0.66887	61.107	6.767	0.38790	2432.4
41.2937	0.7191	-0.0321	0.71984	0.67607	61.294	6.784	0.38813	2433.6
40.8624	0.7193	-0.0215	0.71964	0.68333	61.430	6.797	0.38826	2434.3
40.4312	0.7194	-0.0108	0.71951	0.69067	61.514	6.805	0.38838	2434.8
40.0000	0.7195	-0.0000	0.71946	0.69813	61.544	6.808	0.38842	2435.0

CBNE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=155500.0 FEET. PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

FLBW PROPERTIES

SHOCK ANGLE=43.4410 ENTRPHY=36.1080
GAMMA (AVG.)=1.1212 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
43.4410	0.7261	-0.0864	0.73119	0.63979	84.346	7.960	0.33839	2758.3
43.0976	0.7266	-0.0777	0.73069	0.64569	84.922	8.009	0.33880	2760.0
42.7534	0.7270	-0.0690	0.73026	0.65152	85.433	8.050	0.33914	2761.9
42.4093	0.7274	-0.0604	0.72988	0.65732	85.883	8.088	0.33944	2763.1
42.0651	0.7277	-0.0518	0.72955	0.66309	86.274	8.120	0.33970	2764.6
41.7209	0.7280	-0.0432	0.72927	0.66886	86.605	8.147	0.33992	2765.7
41.3767	0.7282	-0.0346	0.72904	0.67463	86.878	8.169	0.34010	2766.8
41.0325	0.7284	-0.0260	0.72886	0.68044	87.093	8.188	0.34024	2767.1
40.6883	0.7285	-0.0174	0.72872	0.68627	87.248	8.200	0.34034	2767.9
40.3441	0.7286	-0.0087	0.72864	0.69217	87.344	8.208	0.34042	2768.1
40.0000	0.7286	0.0000	0.72861	0.69813	87.379	8.210	0.34042	2768.4

CBNE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=155500.0 FEET. PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRPHY=30.3778

FLBW PROPERTIES

SHOCK ANGLE=42.8684 ENTRPHY=37.2220
GAMMA (AVG.)=1.1383 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.8684	0.7329	-0.0727	0.73651	0.64930	114.425	9.355	0.31077	3061.8
42.5816	0.7333	-0.0654	0.73617	0.65422	115.075	9.400	0.31107	3064.0
42.2947	0.7336	-0.0581	0.73586	0.65910	115.655	9.443	0.31133	3065.2
42.0079	0.7338	-0.0509	0.73559	0.66395	116.165	9.478	0.31155	3067.0
41.7210	0.7341	-0.0436	0.73536	0.66880	116.607	9.510	0.31177	3068.1
41.4342	0.7343	-0.0364	0.73516	0.67363	116.983	9.537	0.31194	3068.8
41.1474	0.7344	-0.0292	0.73500	0.67848	117.293	9.558	0.31206	3069.9
40.8605	0.7345	-0.0219	0.73487	0.68334	117.536	9.575	0.31219	3070.6
40.5737	0.7346	-0.0146	0.73478	0.68823	117.712	9.588	0.31228	3071.1
40.2868	0.7347	-0.0073	0.73472	0.69315	117.820	9.595	0.31232	3071.5
40.0000	0.7347	-0.0000	0.73470	0.69813	117.859	9.598	0.31234	3071.6

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.5339 ENTRØPY=38.3593
GAMMA (AVG.)=1.1826 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5339	0.7369	-0.0646	0.73970	0.65492	149.143	10.466	0.29745	3414.6
42.2805	0.7371	-0.0581	0.73943	0.65926	149.890	10.512	0.29770	3416.4
42.0271	0.7374	-0.0517	0.73919	0.66358	150.556	10.551	0.29794	3418.5
41.7737	0.7376	-0.0452	0.73898	0.66787	151.144	10.585	0.29815	3420.4
41.5203	0.7378	-0.0388	0.73879	0.67216	151.654	10.615	0.29832	3421.8
41.2669	0.7379	-0.0323	0.73864	0.67645	152.087	10.641	0.29846	3423.0
41.0135	0.7381	-0.0259	0.73851	0.68074	152.444	10.663	0.29860	3423.9
40.7601	0.7382	-0.0195	0.73841	0.68505	152.724	10.679	0.29870	3424.7
40.5068	0.7382	-0.0130	0.73834	0.68938	152.926	10.691	0.29876	3425.2
40.2534	0.7383	-0.0065	0.73829	0.69374	153.050	10.699	0.29880	3425.3
40.0000	0.7383	0.0000	0.73827	0.69814	153.095	10.701	0.29881	3425.6

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.4303 ENTRØPY=39.5490
GAMMA (AVG.)=1.2258 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.4303	0.7381	-0.0620	0.74070	0.65670	188.498	10.876	0.29650	3967.2
42.1872	0.7383	-0.0558	0.74045	0.66085	189.402	10.918	0.29676	3970.4
41.9442	0.7386	-0.0496	0.74023	0.66499	190.208	10.954	0.29699	3973.6
41.7012	0.7388	-0.0434	0.74003	0.66910	190.920	10.985	0.29720	3976.7
41.4582	0.7389	-0.0372	0.73987	0.67321	191.538	11.014	0.29738	3978.8
41.2151	0.7391	-0.0311	0.73972	0.67733	192.063	11.037	0.29753	3981.1
40.9721	0.7392	-0.0249	0.73960	0.68145	192.495	11.057	0.29766	3982.5
40.7291	0.7393	-0.0187	0.73951	0.68558	192.834	11.072	0.29775	3983.9
40.4860	0.7393	-0.0125	0.73944	0.68974	193.080	11.083	0.29782	3984.9
40.2430	0.7394	-0.0062	0.73940	0.69392	193.230	11.090	0.29786	3985.5
40.0000	0.7394	0.0000	0.73939	0.69814	193.284	11.093	0.29787	3985.6

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7540E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.4336 ENTRBPY=40.8439
GAMMA (AVG.)=1.1910 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.4336	0.7381	-0.0621	0.74067	0.65660	232.467	10.857	0.29232	4740.3
42.1902	0.7383	-0.0559	0.74042	0.66077	233.587	10.902	0.29251	4743.2
41.9469	0.7385	-0.0497	0.74020	0.66491	234.586	10.942	0.29267	4745.7
41.7035	0.7387	-0.0435	0.74000	0.66904	235.468	10.977	0.29282	4748.1
41.4601	0.7389	-0.0373	0.73983	0.67317	236.233	11.008	0.29295	4750.2
41.2168	0.7390	-0.0311	0.73969	0.67729	236.884	11.034	0.29306	4751.8
40.9734	0.7392	-0.0249	0.73957	0.68141	237.419	11.055	0.29315	4753.1
40.7301	0.7392	-0.0187	0.73948	0.68556	237.839	11.072	0.29322	4754.2
40.4867	0.7393	-0.0125	0.73941	0.68972	238.143	11.085	0.29326	4754.9
40.2433	0.7393	-0.0063	0.73937	0.69391	238.329	11.092	0.29330	4755.4
40.0000	0.7394	0.0000	0.73935	0.69813	238.396	11.094	0.29330	4755.6

CBME SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.2709 ENTRBPY=41.9937
GAMMA (AVG.)=1.1607 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.2709	0.7400	-0.0582	0.74226	0.65929	281.051	11.559	0.27856	5223.0
42.0438	0.7402	-0.0524	0.74204	0.66319	282.317	11.604	0.27872	5225.2
41.8167	0.7404	-0.0465	0.74184	0.66707	283.448	11.644	0.27886	5227.7
41.5896	0.7406	-0.0407	0.74167	0.67094	284.445	11.680	0.27898	5229.5
41.3625	0.7407	-0.0349	0.74152	0.67479	285.310	11.711	0.27909	5231.1
41.1354	0.7408	-0.0291	0.74140	0.67865	286.044	11.737	0.27918	5232.5
40.9083	0.7409	-0.0233	0.74129	0.68251	286.649	11.758	0.27926	5233.7
40.6813	0.7410	-0.0175	0.74121	0.68638	287.123	11.775	0.27932	5234.5
40.4542	0.7411	-0.0117	0.74115	0.69027	287.466	11.787	0.27936	5235.2
40.2271	0.7411	-0.0059	0.74111	0.69419	287.676	11.795	0.27938	5235.6
40.0000	0.7411	-0.0000	0.74110	0.69813	287.752	11.798	0.27939	5235.8

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRBPPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=42.1272 ENTRBPPY=43.2092
GAMMA (AVG.)=1.1427 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.1272	0.7417	-0.0547	0.74367	0.66168	334.264	12.270	0.26738	5623.8
41.9145	0.7418	-0.0492	0.74347	0.66535	335.678	12.315	0.26752	5625.9
41.7018	0.7420	-0.0437	0.74330	0.66899	336.939	12.356	0.26764	5627.9
41.4890	0.7422	-0.0383	0.74315	0.67262	338.051	12.392	0.26775	5629.6
41.2763	0.7423	-0.0328	0.74302	0.67624	339.016	12.423	0.26784	5631.0
41.0636	0.7424	-0.0274	0.74291	0.67986	339.835	12.449	0.26792	5632.4
40.8509	0.7425	-0.0219	0.74282	0.68348	340.509	12.471	0.26798	5633.3
40.6381	0.7426	-0.0165	0.74275	0.68712	341.038	12.487	0.26803	5634.2
40.4254	0.7426	-0.0110	0.74269	0.69077	341.420	12.500	0.26807	5634.8
40.2127	0.7426	-0.0055	0.74266	0.69443	341.654	12.507	0.26809	5635.1
40.0000	0.7427	-0.0000	0.74265	0.69813	341.737	12.510	0.26810	5635.2

CBME SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRBPPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=41.9952 ENTRBPPY=44.4530
GAMMA (AVG.)=1.1328 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.9952	0.7432	-0.0514	0.74497	0.66390	392.108	13.015	0.25775	5951.7
41.7957	0.7434	-0.0462	0.74480	0.66734	393.664	13.060	0.25788	5953.6
41.5962	0.7435	-0.0411	0.74465	0.67076	395.053	13.101	0.25798	5955.3
41.3967	0.7436	-0.0360	0.74452	0.67417	396.277	13.136	0.25808	5957.0
41.1971	0.7438	-0.0308	0.74440	0.67757	397.340	13.167	0.25816	5958.4
40.9976	0.7439	-0.0257	0.74431	0.68098	398.242	13.194	0.25823	5959.4
40.7981	0.7439	-0.0206	0.74422	0.68438	398.984	13.215	0.25829	5960.5
40.5986	0.7440	-0.0155	0.74416	0.68779	399.565	13.233	0.25833	5961.0
40.3990	0.7440	-0.0103	0.74412	0.69122	399.985	13.245	0.25837	5961.6
40.1995	0.7441	-0.0052	0.74409	0.69466	400.242	13.252	0.25839	5961.9
40.0000	0.7441	-0.0000	0.74408	0.69813	400.334	13.255	0.25839	5962.2

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTRPHY=30.3778

FLBM PROPERTIES

SHOCK ANGLE=41.8782 ENTRPHY=45.7264
GAMMA (AVG.)=1.1301 STAG. ENTHALPHY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.8782	0.7446	-0.0485	0.74614	0.66587	454.561	13.765	0.24972	6226.6
41.6004	0.7447	-0.0436	0.74599	0.66911	456.279	13.810	0.24984	6228.4
41.5026	0.7448	-0.0388	0.74586	0.67234	457.796	13.850	0.24993	6230.2
41.3147	0.7450	-0.0339	0.74574	0.67555	459.133	13.886	0.25002	6231.5
41.1269	0.7451	-0.0291	0.74563	0.67876	460.293	13.917	0.25009	6232.9
40.9391	0.7452	-0.0243	0.74555	0.68197	461.278	13.943	0.25016	6234.0
40.7513	0.7452	-0.0194	0.74548	0.68518	462.088	13.965	0.25021	6235.0
40.5635	0.7453	-0.0146	0.74542	0.68839	462.722	13.982	0.25025	6235.5
40.3756	0.7453	-0.0097	0.74538	0.69162	463.180	13.994	0.25028	6236.0
40.1878	0.7453	-0.0049	0.74535	0.69486	463.461	14.001	0.25030	6236.3
40.0000	0.7453	-0.0000	0.74534	0.69813	463.561	14.004	0.25030	6236.4

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLBM PROPERTIES

SHOCK ANGLE=41.7781 ENTRPHY=47.0302
GAMMA (AVG.)=1.1332 STAG. ENTHALPHY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.7781	0.7457	-0.0460	0.74715	0.66756	521.684	14.485	0.24326	6472.5
41.6003	0.7459	-0.0414	0.74701	0.67064	523.529	14.530	0.24337	6474.3
41.4224	0.7460	-0.0368	0.74689	0.67369	525.176	14.570	0.24345	6475.8
41.2446	0.7461	-0.0322	0.74678	0.67674	526.629	14.606	0.24354	6477.4
41.0668	0.7462	-0.0276	0.74669	0.67978	527.890	14.637	0.24361	6478.5
40.8890	0.7463	-0.0230	0.74661	0.68282	528.960	14.663	0.24366	6479.5
40.7112	0.7463	-0.0184	0.74655	0.68586	529.840	14.684	0.24371	6480.4
40.5334	0.7464	-0.0138	0.74650	0.68891	530.529	14.701	0.24375	6481.0
40.3556	0.7464	-0.0092	0.74646	0.69196	531.027	14.713	0.24378	6481.5
40.1778	0.7464	-0.0046	0.74644	0.69504	531.331	14.721	0.24379	6481.8
40.0000	0.7464	-0.0000	0.74643	0.69813	531.440	14.724	0.24380	6481.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=41.6110 ENTROPY=50.4118
GAMMA (AVG.)=1.1550 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=41.5750 ENTROPY=53.9056
GAMMA (AVG.)=1.1634 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.6110	0.7477	-0.0418	0.74884	0.67041	709.697	15.889	0.23373	7127.3	41.5750	0.7481	-0.0409	0.74920	0.67102	926.646	16.232	0.23188	8178.1
41.4499	0.7478	-0.0376	0.74873	0.67319	711.969	15.932	0.23382	7129.4	41.4175	0.7482	-0.0368	0.74910	0.67374	929.545	16.275	0.23198	8181.5
41.2888	0.7479	-0.0334	0.74863	0.67596	713.998	15.971	0.23390	7131.4	41.2600	0.7483	-0.0327	0.74900	0.67645	932.136	16.313	0.23207	8184.1
41.1277	0.7480	-0.0293	0.74854	0.67872	715.789	16.007	0.23397	7132.9	41.1025	0.7484	-0.0286	0.74892	0.67915	934.422	16.347	0.23215	8186.5
40.9665	0.7480	-0.0251	0.74846	0.68148	717.343	16.037	0.23404	7134.4	40.9450	0.7484	-0.0245	0.74884	0.68185	936.406	16.376	0.23222	8188.7
40.8055	0.7481	-0.0209	0.74840	0.68424	718.662	16.062	0.23409	7135.5	40.7875	0.7485	-0.0205	0.74878	0.68455	938.090	16.401	0.23228	8190.4
40.6444	0.7482	-0.0167	0.74834	0.68700	719.747	16.083	0.23413	7136.6	40.6300	0.7486	-0.0164	0.74873	0.68725	939.474	16.421	0.23233	8191.9
40.4833	0.7482	-0.0126	0.74830	0.68977	720.596	16.100	0.23416	7137.3	40.4725	0.7486	-0.0123	0.74869	0.68995	940.557	16.437	0.23237	8193.2
40.3222	0.7482	-0.0084	0.74827	0.69254	721.209	16.112	0.23419	7137.9	40.3150	0.7486	-0.0082	0.74866	0.69267	941.340	16.448	0.23240	8194.0
40.1611	0.7482	-0.0042	0.74825	0.69533	721.584	16.119	0.23420	7138.3	40.1575	0.7486	-0.0041	0.74864	0.69539	941.818	16.455	0.23241	8194.4
40.0000	0.7482	-0.0000	0.74825	0.69813	721.718	16.122	0.23421	7138.4	40.0000	0.7486	0.0000	0.74864	0.69813	941.989	16.458	0.23242	8194.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=55.1022 ENTROPY=31.0468
GAMMA (AVG.)=1.3792 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.1022	0.5720	-0.2473	0.62317	0.55364	6.920	3.316	0.87440	564.6
53.8420	0.5771	-0.2229	0.61865	0.57121	7.037	3.357	0.88582	567.1
52.5817	0.5817	-0.1986	0.61466	0.58873	7.141	3.392	0.89612	569.5
51.3215	0.5857	-0.1744	0.61116	0.60633	7.232	3.424	0.90537	571.5
50.0613	0.5893	-0.1502	0.60810	0.62415	7.312	3.451	0.91360	573.2
48.8011	0.5922	-0.1259	0.60548	0.64230	7.381	3.475	0.92078	574.7
47.5409	0.5947	-0.1014	0.60327	0.66088	7.439	3.494	0.92689	575.9
46.2806	0.5966	-0.0766	0.60150	0.68000	7.485	3.510	0.93185	576.9
45.0204	0.5980	-0.0515	0.60017	0.69978	7.520	3.522	0.93558	577.7
43.7602	0.5987	-0.0260	0.59931	0.72032	7.542	3.529	0.93797	578.1
42.5000	0.5990	0.0000	0.59898	0.74177	7.550	3.532	0.93886	578.3

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=51.5116 ENTROPY=31.6235
GAMMA (AVG.)=1.3569 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.5116	0.6223	-0.1920	0.65124	0.59974	11.357	4.076	0.66288	753.9
50.6104	0.6251	-0.1729	0.64859	0.61352	11.514	4.117	0.68758	756.6
49.7092	0.6277	-0.1539	0.64625	0.62720	11.653	4.154	0.69177	759.0
48.8081	0.6299	-0.1349	0.64420	0.64085	11.776	4.186	0.69547	761.1
47.9069	0.6319	-0.1160	0.64242	0.65456	11.883	4.214	0.69871	762.9
47.0058	0.6335	-0.0970	0.64089	0.66840	11.975	4.238	0.70149	764.4
46.1046	0.6348	-0.0780	0.63962	0.68244	12.051	4.258	0.70381	765.7
45.2034	0.6359	-0.0588	0.63861	0.69672	12.112	4.274	0.70566	766.7
44.3023	0.6366	-0.0395	0.63786	0.71133	12.157	4.286	0.70703	767.5
43.4011	0.6371	-0.0199	0.63738	0.72632	12.185	4.293	0.70789	767.9
42.5000	0.6372	0.0000	0.63720	0.74177	12.195	4.296	0.70821	768.1

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 5409.0 FT./SEC. ENTROPY=30.3770

FLOW PROPERTIES

SHOCK ANGLE=49.8603 ENTROPY=32.2515
 GAMMA (AVG.)=1.3357 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.8603	0.6446	-0.1627	0.66482	0.62305	17.102	4.700	0.59520	984.6
49.1243	0.6466	-0.1464	0.66294	0.63472	17.307	4.742	0.59506	987.6
48.3882	0.6483	-0.1302	0.66128	0.64630	17.489	4.779	0.60061	990.2
47.6522	0.6499	-0.1141	0.65983	0.65783	17.649	4.811	0.60285	992.4
46.9162	0.6512	-0.0981	0.65856	0.66939	17.788	4.840	0.60461	994.4
46.1801	0.6524	-0.0820	0.65749	0.68106	17.907	4.864	0.60648	996.1
45.4441	0.6533	-0.0658	0.65659	0.69275	18.006	4.884	0.60786	997.4
44.7081	0.6540	-0.0496	0.65588	0.70464	18.085	4.900	0.60896	998.5
43.9720	0.6545	-0.0332	0.65536	0.71675	18.142	4.912	0.60977	999.3
43.2360	0.6548	-0.0167	0.65503	0.72910	18.178	4.919	0.61027	999.8
42.5000	0.6549	-0.0000	0.65490	0.74176	18.191	4.922	0.61046	1000.0

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 6490.8 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=48.9119 ENTROPY=32.8842
 GAMMA (AVG.)=1.3198 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.9119	0.6572	-0.1446	0.67292	0.63704	24.136	5.211	0.54409	1253.2
48.2707	0.6587	-0.1302	0.67145	0.64740	24.395	5.253	0.54616	1256.5
47.6295	0.6601	-0.1158	0.67015	0.65768	24.625	5.290	0.54800	1259.4
46.9883	0.6613	-0.1014	0.66900	0.66791	24.829	5.323	0.54961	1261.9
46.3471	0.6623	-0.0871	0.66801	0.67815	25.005	5.352	0.55102	1264.0
45.7059	0.6632	-0.0728	0.66717	0.68843	25.156	5.377	0.55222	1265.9
45.0647	0.6639	-0.0584	0.66647	0.69879	25.281	5.397	0.55321	1267.4
44.4235	0.6645	-0.0440	0.66592	0.70926	25.380	5.413	0.55399	1268.6
43.7823	0.6649	-0.0294	0.66551	0.71989	25.452	5.425	0.55457	1269.5
43.1412	0.6651	-0.0148	0.66525	0.73071	25.497	5.432	0.55493	1270.0
42.5000	0.6652	-0.0000	0.66515	0.74176	25.514	5.434	0.55506	1270.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.8835 ENTRPHY=34.0956
GAMMA (AVG.)=1.3019 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0075	0.6706	-0.1241	0.68202	0.65270	42.051	5.976	0.48802	1903.5
47.3451	0.6717	-0.1117	0.68094	0.66156	42.442	6.018	0.48941	1908.0
46.8068	0.6727	-0.0993	0.67999	0.67035	42.790	6.056	0.49064	1911.4
46.2684	0.6736	-0.0870	0.67916	0.67910	43.096	6.090	0.49172	1914.7
45.7301	0.6743	-0.0747	0.67843	0.68785	43.362	6.118	0.49266	1917.5
45.1917	0.6749	-0.0624	0.67782	0.69662	43.589	6.143	0.49347	1919.8
44.6534	0.6755	-0.0500	0.67731	0.70543	43.777	6.163	0.49412	1921.7
44.1150	0.6759	-0.0376	0.67691	0.71433	43.925	6.179	0.49465	1923.2
43.5767	0.6761	-0.0252	0.67661	0.72334	44.034	6.191	0.49503	1924.3
43.0383	0.6763	-0.0126	0.67643	0.73247	44.101	6.198	0.49526	1925.0
42.5000	0.6764	0.0000	0.67636	0.74177	44.125	6.201	0.49535	1925.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.0075 ENTRPHY=35.2884
GAMMA (AVG.)=1.1349 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0075	0.6819	-0.1062	0.69011	0.66597	65.029	6.889	0.41251	2521.4
46.5568	0.6827	-0.0955	0.68932	0.67362	65.552	6.938	0.41316	2523.6
46.1060	0.6834	-0.0848	0.68862	0.68119	66.017	6.980	0.41377	2525.7
45.6553	0.6840	-0.0743	0.68801	0.68870	66.425	7.017	0.41430	2527.4
45.2045	0.6845	-0.0637	0.68749	0.69618	66.779	7.050	0.41473	2528.8
44.7538	0.6850	-0.0532	0.68704	0.70365	67.079	7.078	0.41513	2529.8
44.3030	0.6853	-0.0426	0.68667	0.71115	67.327	7.100	0.41543	2531.0
43.8522	0.6856	-0.0320	0.68638	0.71868	67.522	7.119	0.41567	2531.7
43.4015	0.6858	-0.0214	0.68617	0.72628	67.664	7.131	0.41584	2532.3
42.9507	0.6860	-0.0107	0.68604	0.73397	67.752	7.139	0.41598	2532.8
42.5000	0.6860	0.0000	0.68599	0.74177	67.783	7.142	0.41601	2532.8

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

FLW PRPERTIES

SHOCK ANGLE=46.0707 ENTRPHY=36.4505
GAMMA (AVG.)=1.1225 STAG. ENTHALPHY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0707	0.6938	-0.0857	0.69904	0.68119	93.125	8.404	0.36324	2852.0
45.7136	0.6943	-0.0771	0.69853	0.68730	93.722	8.452	0.36368	2853.7
45.3565	0.6947	-0.0685	0.69808	0.69335	94.253	8.493	0.36408	2855.5
44.9995	0.6951	-0.0599	0.69769	0.69936	94.721	8.530	0.36442	2856.9
44.6424	0.6955	-0.0514	0.69735	0.70536	95.126	8.562	0.36472	2858.2
44.2853	0.6957	-0.0429	0.69706	0.71135	95.470	8.589	0.36497	2859.2
43.9283	0.6960	-0.0344	0.69682	0.71735	95.754	8.611	0.36520	2860.2
43.5712	0.6962	-0.0258	0.69664	0.72338	95.977	8.629	0.36534	2860.8
43.2141	0.6963	-0.0173	0.69650	0.72944	96.139	8.642	0.36548	2861.3
42.8571	0.6964	-0.0087	0.69641	0.73556	96.238	8.649	0.36555	2861.8
42.5000	0.6964	-0.0000	0.69638	0.74175	96.274	8.653	0.36558	2861.6

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRPHY=30.3778

FLW PRPERTIES

SHOCK ANGLE=45.5008 ENTRPHY=37.6266
GAMMA (AVG.)=1.1518 STAG. ENTHALPHY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.5008	0.7009	-0.0728	0.70466	0.69068	126.355	9.801	0.33637	3178.0
45.2007	0.7013	-0.0655	0.70430	0.69582	127.036	9.847	0.33673	3179.8
44.9006	0.7016	-0.0582	0.70398	0.70092	127.643	9.888	0.33703	3181.6
44.6005	0.7019	-0.0509	0.70370	0.70600	128.178	9.923	0.33728	3183.1
44.3005	0.7021	-0.0437	0.70346	0.71106	128.643	9.955	0.33753	3184.3
44.0004	0.7023	-0.0364	0.70325	0.71612	129.037	9.980	0.33772	3185.5
43.7003	0.7025	-0.0292	0.70308	0.72120	129.362	10.002	0.33769	3186.4
43.4002	0.7026	-0.0219	0.70294	0.72629	129.616	10.020	0.33802	3186.9
43.1001	0.7027	-0.0146	0.70285	0.73141	129.801	10.031	0.33810	3187.6
42.8000	0.7027	-0.0073	0.70279	0.73656	129.914	10.039	0.33816	3187.9
42.5000	0.7028	0.0000	0.70276	0.74177	129.955	10.042	0.33819	3187.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=45.2083 ENTRØPY=38.8376
GAMMA (AVG.)=1.2040 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.2043	0.7046	-0.0659	0.70765	0.69567	164.712	10.765	0.32606	3598.9
44.9338	0.7049	-0.0593	0.70736	0.70030	165.511	10.809	0.32636	3601.2
44.6634	0.7051	-0.0527	0.70710	0.70489	166.224	10.847	0.32664	3603.4
44.3930	0.7054	-0.0461	0.70687	0.70947	166.853	10.881	0.32689	3605.4
44.1226	0.7056	-0.0396	0.70667	0.71404	167.399	10.911	0.32710	3606.9
43.8521	0.7057	-0.0330	0.70650	0.71862	167.863	10.937	0.32729	3608.3
43.5817	0.7059	-0.0264	0.70636	0.72320	168.245	10.958	0.32743	3609.3
43.3113	0.7060	-0.0199	0.70625	0.72780	168.545	10.974	0.32755	3610.2
43.0408	0.7060	-0.0133	0.70617	0.73242	168.762	10.985	0.32763	3610.9
42.7704	0.7061	-0.0066	0.70612	0.73708	168.895	10.992	0.32768	3611.5
42.5000	0.7061	0.0000	0.70610	0.74177	168.943	10.996	0.32769	3611.3

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=45.2885 ENTRØPY=40.2932
GAMMA (AVG.)=1.2195 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.2885	0.7035	-0.0679	0.70680	0.69428	208.210	10.473	0.33329	4438.2
45.0096	0.7038	-0.0611	0.70649	0.69904	209.252	10.517	0.33355	4441.3
44.7308	0.7041	-0.0543	0.70621	0.70377	210.181	10.556	0.33379	4444.3
44.4519	0.7044	-0.0475	0.70597	0.70849	211.001	10.590	0.33401	4446.8
44.1731	0.7046	-0.0407	0.70576	0.71319	211.714	10.620	0.33419	4449.0
43.8942	0.7048	-0.0340	0.70558	0.71790	212.319	10.646	0.33434	4450.8
43.6154	0.7049	-0.0272	0.70543	0.72262	212.817	10.667	0.33447	4452.3
43.3365	0.7050	-0.0205	0.70531	0.72736	213.209	10.683	0.33457	4453.5
43.0577	0.7051	-0.0137	0.70523	0.73212	213.492	10.695	0.33464	4454.5
42.7788	0.7051	-0.0068	0.70517	0.73692	213.666	10.702	0.33469	4455.0
42.5000	0.7052	-0.0000	0.70515	0.74176	213.728	10.705	0.33470	4455.1

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRPHY=30.3776

FLOW PROPERTIES

SHOCK ANGLE=45.0801 ENTRPHY=41.4136
GAMMA (AVG.)=1.1730 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
45.0801	0.7061	-0.0631	0.70893	0.69770	256.770	11.226	0.31391	4997.4
44.8220	0.7064	-0.0567	0.70866	0.70213	257.964	11.271	0.31412	5000.1
44.5640	0.7066	-0.0504	0.70842	0.70652	259.030	11.312	0.31431	5002.3
44.3060	0.7068	-0.0441	0.70821	0.71091	259.969	11.347	0.31447	5004.5
44.0480	0.7070	-0.0379	0.70803	0.71528	260.785	11.378	0.31461	5006.1
43.7900	0.7072	-0.0316	0.70787	0.71965	261.477	11.404	0.31473	5007.6
43.5320	0.7073	-0.0253	0.70774	0.72403	262.048	11.426	0.31483	5008.8
43.2740	0.7074	-0.0190	0.70764	0.72843	262.495	11.442	0.31491	5009.8
43.0160	0.7075	-0.0127	0.70757	0.73284	262.818	11.455	0.31497	5010.5
42.7580	0.7075	-0.0064	0.70753	0.73729	263.017	11.462	0.31500	5010.9
42.5000	0.7075	0.0000	0.70751	0.74177	263.088	11.465	0.31501	5011.1

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=15500.0 FEET PRESSURE=2.9030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23790.8 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=44.9068 ENTRPHY=42.6749
GAMMA (AVG.)=1.1494 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.9068	0.7083	-0.0591	0.71071	0.70058	310.446	11.953	0.29982	5458.6
44.6661	0.7085	-0.0531	0.71048	0.70471	311.796	11.999	0.30000	5460.9
44.4255	0.7087	-0.0472	0.71027	0.70883	313.001	12.039	0.30016	5463.0
44.1848	0.7089	-0.0413	0.71008	0.71293	314.063	12.075	0.30030	5464.8
43.9441	0.7090	-0.0354	0.70992	0.71702	314.985	12.106	0.30042	5466.3
43.7034	0.7092	-0.0296	0.70979	0.72111	315.767	12.132	0.30052	5467.7
43.4627	0.7093	-0.0237	0.70968	0.72520	316.411	12.154	0.30061	5468.7
43.2220	0.7094	-0.0178	0.70959	0.72931	316.916	12.171	0.30067	5469.5
42.9813	0.7094	-0.0119	0.70952	0.73344	317.281	12.183	0.30072	5470.2
42.7406	0.7095	-0.0059	0.70948	0.73758	317.505	12.190	0.30075	5470.5
42.5000	0.7095	0.0000	0.70947	0.74177	317.585	12.193	0.30076	5470.6

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=44.7472 ENTRØPY=43.9696
GAMMA (AVG.)=1.1357 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.7472	0.7102	-0.0553	0.71237	0.70325	369.235	12.725	0.28773	5832.8
44.5224	0.7104	-0.0498	0.71216	0.70712	370.736	12.770	0.28789	5834.9
44.2977	0.7106	-0.0442	0.71198	0.71097	372.076	12.811	0.28803	5836.6
44.0730	0.7108	-0.0387	0.71182	0.71480	373.257	12.846	0.28815	5838.3
43.8483	0.7109	-0.0332	0.71168	0.71863	374.282	12.877	0.28825	5839.7
43.6236	0.7110	-0.0277	0.71156	0.72246	375.153	12.904	0.28834	5840.8
43.3989	0.7111	-0.0222	0.71146	0.72629	375.868	12.925	0.28842	5841.8
43.1741	0.7112	-0.0166	0.71139	0.73013	376.429	12.942	0.28847	5842.6
42.9494	0.7112	-0.0111	0.71133	0.73398	376.835	12.954	0.28851	5843.2
42.7247	0.7113	-0.0056	0.71129	0.73786	377.083	12.962	0.28854	5843.5
42.5000	0.7113	0.0000	0.71128	0.74177	377.172	12.965	0.28855	5843.5

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTRØPY=30.3778

FLØW PROPERTIES

SHØCK ANGLE=44.6044 ENTRØPY=45.2965
GAMMA (AVG.)=1.1303 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.6044	0.7120	-0.0520	0.71386	0.70564	433.134	13.514	0.27761	6139.4
44.3939	0.7122	-0.0467	0.71368	0.70927	434.785	13.560	0.27775	6141.1
44.1835	0.7123	-0.0416	0.71352	0.71288	436.258	13.600	0.27788	6142.9
43.9731	0.7125	-0.0364	0.71338	0.71648	437.557	13.636	0.27798	6144.3
43.7626	0.7126	-0.0312	0.71326	0.72007	438.685	13.667	0.27808	6145.7
43.5522	0.7127	-0.0260	0.71315	0.72366	439.642	13.693	0.27816	6146.7
43.3417	0.7128	-0.0208	0.71306	0.72725	440.429	13.715	0.27822	6147.5
43.1313	0.7128	-0.0156	0.71300	0.73086	441.045	13.732	0.27827	6148.3
42.9209	0.7129	-0.0104	0.71295	0.73447	441.491	13.744	0.27831	6148.8
42.7104	0.7129	-0.0052	0.71292	0.73810	441.764	13.751	0.27833	6149.1
42.5000	0.7129	-0.0000	0.71291	0.74176	441.861	13.754	0.27834	6149.3

CONE SEMI-ANGLE = 2.5

FREE STREAM CONDITIONS

MACH NO. = 28.00 ALTITUDE = 15500.0 FEET PRESSURE = 2.3730E 00 PSF
 DENSITY = 2.7550E-06 SLUGS/CU. FT. TEMPERATURE = 437.00 DEG. R
 VELOCITY = 30270.5 FT./SEC. ENTROPY = 30.3778

FLUX PROPERTIES

SHOCK ANGLE = 44.4817 SHOCK ANGLE = 44.3813
 GAMMA (AVG.) = 1.1314 STAG. ENTHALPY = 4.6169E 08 FT. SQ./SEC. SQ.
 ENTROPY = 46.6568 ENTROPY = 48.0504

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.3813	0.7147	-0.0467	0.71622	0.70772	502.153	14.286	0.26945	6404.1
44.1932	0.7148	-0.0420	0.71607	0.71114	503.955	14.331	0.26958	6405.9
44.0051	0.7150	-0.0373	0.71594	0.71454	505.564	14.371	0.26969	6407.6
43.8169	0.7151	-0.0326	0.71583	0.71793	506.984	14.407	0.26979	6409.0
43.6288	0.7152	-0.0280	0.71573	0.72132	508.215	14.447	0.26987	6410.3
43.4407	0.7153	-0.0233	0.71565	0.72471	509.261	14.464	0.26995	6411.3
43.2525	0.7153	-0.0187	0.71558	0.72809	510.120	14.485	0.27001	6412.0
43.0644	0.7154	-0.0140	0.71552	0.73149	510.793	14.502	0.27005	6412.9
42.8763	0.7154	-0.0094	0.71548	0.73490	511.280	14.514	0.27009	6413.2
42.6881	0.7154	-0.0047	0.71546	0.73832	511.577	14.521	0.27011	6413.7
42.5000	0.7154	-0.0000	0.71545	0.74175	511.683	14.524	0.27011	6413.7

CONE SEMI-ANGLE = 42.5

FREE STREAM CONDITIONS

MACH NO. = 30.00 ALTITUDE = 15500.0 FEET PRESSURE = 2.3030E 00 PSF
 DENSITY = 2.7550E-06 SLUGS/CU. FT. TEMPERATURE = 270.56 DEG. K
 VELOCITY = 32454.2 FT./SEC. ENTROPY = 30.3778

FLOW PROPERTIES

SHOCK ANGLE = 44.3813 SHOCK ANGLE = 44.3813
 GAMMA (AVG.) = 1.1385 STAG. ENTHALPY = 5.2956E 08 FT. SQ./SEC. SQ.
 ENTROPY = 48.0504 ENTROPY = 48.0504

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.3813	0.7147	-0.0467	0.71622	0.70942	576.283	14.993	0.26322	6656.9
44.1932	0.7148	-0.0420	0.71607	0.71267	578.247	15.037	0.26334	6659.0
44.0051	0.7150	-0.0373	0.71594	0.71590	580.000	15.077	0.26344	6660.6
43.8169	0.7151	-0.0326	0.71583	0.71912	581.547	15.112	0.26353	6661.9
43.6288	0.7152	-0.0280	0.71573	0.72234	582.890	15.143	0.26361	6663.2
43.4407	0.7153	-0.0233	0.71565	0.72556	584.029	15.169	0.26368	6664.2
43.2525	0.7153	-0.0187	0.71558	0.72878	584.966	15.190	0.26373	6665.1
43.0644	0.7154	-0.0140	0.71552	0.73200	585.699	15.207	0.26378	6665.8
42.8763	0.7154	-0.0094	0.71548	0.73524	586.229	15.219	0.26381	6666.3
42.6881	0.7154	-0.0047	0.71546	0.73849	586.553	15.226	0.26383	6666.6
42.5000	0.7154	-0.0000	0.71545	0.74176	586.669	15.229	0.26383	6666.6

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=44.2362 ENTRPHY=51.6546
GAMMA (AVG.)=1.1631 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.2362	0.7165	-0.0432	0.71777	0.71189	783.995	16.161	0.25546	7434.6
44.0626	0.7166	-0.0388	0.71764	0.71489	786.459	16.204	0.25557	7437.1
43.8890	0.7167	-0.0345	0.71753	0.71787	788.660	16.243	0.25567	7439.1
43.7154	0.7168	-0.0302	0.71743	0.72085	790.603	16.278	0.25576	7440.9
43.5417	0.7169	-0.0259	0.71735	0.72382	792.289	16.308	0.25583	7442.5
43.3681	0.7170	-0.0216	0.71728	0.72679	793.721	16.333	0.25589	7443.9
43.1945	0.7170	-0.0173	0.71722	0.72977	794.897	16.354	0.25594	7444.9
43.0208	0.7171	-0.0130	0.71717	0.73275	795.818	16.370	0.25599	7445.7
42.8472	0.7171	-0.0087	0.71714	0.73574	796.484	16.382	0.25601	7446.5
42.6736	0.7171	-0.0043	0.71712	0.73874	796.890	16.389	0.25603	7446.8
42.5000	0.7171	-0.0000	0.71711	0.74176	797.035	16.391	0.25604	7447.1

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=44.2707 ENTRPHY=55.3472
GAMMA (AVG.)=1.2383 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.2707	0.7160	-0.0440	0.71740	0.71134	1023.745	15.877	0.26630	8881.1
44.0936	0.7162	-0.0396	0.71727	0.71434	1027.016	15.918	0.26643	8885.4
43.9166	0.7163	-0.0352	0.71715	0.71743	1029.940	15.954	0.26655	8889.3
43.7395	0.7164	-0.0308	0.71705	0.72045	1032.522	15.987	0.26666	8892.9
43.5624	0.7165	-0.0264	0.71696	0.72348	1034.764	16.015	0.26675	8895.9
43.3853	0.7166	-0.0220	0.71689	0.72651	1036.667	16.039	0.26683	8898.4
43.2083	0.7166	-0.0176	0.71683	0.72954	1038.233	16.058	0.26689	8900.4
43.0312	0.7167	-0.0132	0.71678	0.73258	1039.459	16.073	0.26694	8902.1
42.8541	0.7167	-0.0088	0.71674	0.73562	1040.345	16.084	0.26698	8903.3
42.6771	0.7167	-0.0044	0.71672	0.73866	1040.886	16.091	0.26700	8904.1
42.5000	0.7167	0.0000	0.71671	0.74171	1041.079	16.094	0.26701	8904.1

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO. = 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=54.7959 ENTR0PY=31.7473
GAMMA (AVG.)=1.3524 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.7959	0.5764	-0.1940	0.60820	0.63169	12.404	4.211	0.76641	796.9
53.8163	0.5795	-0.1747	0.60530	0.64647	12.570	4.253	0.77258	799.7
52.8367	0.5823	-0.1555	0.60274	0.66119	12.716	4.289	0.77809	802.1
51.8571	0.5848	-0.1364	0.60049	0.67591	12.846	4.322	0.78300	804.3
50.8775	0.5869	-0.1173	0.59854	0.69074	12.959	4.350	0.78730	806.1
49.8979	0.5887	-0.0981	0.59686	0.70572	13.056	4.374	0.79101	807.7
48.9183	0.5902	-0.0789	0.59547	0.72094	13.136	4.394	0.79411	808.9
47.9387	0.5914	-0.0595	0.59435	0.73645	13.201	4.409	0.79660	810.0
46.9591	0.5922	-0.0399	0.59353	0.75231	13.248	4.421	0.79843	810.7
45.9795	0.5927	-0.0201	0.59301	0.76861	13.278	4.428	0.79959	811.2
45.0000	0.5928	0.0000	0.59280	0.78540	13.289	4.431	0.80002	811.4

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO. = 3.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. K
VELOCITY= 3245.4 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=58.9001 ENTR0PY=31.1353
GAMMA (AVG.)=1.3758 STAG. ENTHALPY=8.1913E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.9001	0.5164	-0.2480	0.57289	0.58023	7.562	3.451	1.02364	592.
57.9161	0.5221	-0.2236	0.56735	0.59902	7.684	3.492	1.04153	595.
56.9321	0.5271	-0.1994	0.56359	0.61787	7.792	3.528	1.05803	597.
55.9481	0.5316	-0.1752	0.55974	0.63692	7.888	3.559	1.07316	599.
54.9641	0.5355	-0.1509	0.55638	0.65628	7.972	3.586	1.08688	601.
53.9801	0.5388	-0.1265	0.55348	0.67607	8.044	3.610	1.09909	602.
52.9961	0.5415	-0.1019	0.55105	0.69641	8.104	3.630	1.10964	604.
51.9121	0.5437	-0.0771	0.54909	0.71739	8.153	3.646	1.11835	605.
50.9281	0.5452	-0.0518	0.54761	0.73913	8.189	3.657	1.12498	605.
49.9441	0.5460	-0.0262	0.54667	0.76176	8.212	3.665	1.12925	606.
48.9601	0.5462	0.0000	0.54630	0.78549	8.221	3.668	1.13085	606.4

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRPHY=30.3778

FLW PRPERTIES

SHOCK ANGLE=52.9854 ENTRPHY=32.4063
GAMMA (AVG.)=1.3313 STAG. ENTHALPY=1.7594E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.9054	0.6020	-0.1652	0.62423	0.65696	18.698	4.834	0.66192	1046.1
52.1869	0.6041	-0.1487	0.62217	0.66952	18.915	4.876	0.66556	1049.1
51.3883	0.6061	-0.1323	0.62034	0.68199	19.108	4.913	0.66878	1052.3
50.5898	0.6078	-0.1160	0.61874	0.69444	19.278	4.946	0.67164	1054.6
49.7913	0.6093	-0.0996	0.61735	0.70694	19.426	4.974	0.67414	1056.6
48.9927	0.6105	-0.0833	0.61617	0.71952	19.552	4.998	0.67627	1058.3
48.1942	0.6115	-0.0669	0.61518	0.73223	19.657	5.018	0.67805	1059.8
47.3956	0.6123	-0.0504	0.61440	0.74513	19.740	5.034	0.67946	1060.9
46.5971	0.6129	-0.0338	0.61382	0.75826	19.802	5.046	0.68050	1061.7
45.7985	0.6132	-0.0170	0.61346	0.77166	19.840	5.053	0.68115	1062.2
45.0000	0.6133	-0.0000	0.61332	0.78540	19.854	5.056	0.68138	1062.4

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTRPHY=30.3778

FLW PRPERTIES

SHOCK ANGLE=51.9597 ENTRPHY=33.0648
GAMMA (AVG.)=1.3162 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
51.9597	0.6162	-0.1475	0.63358	0.67197	26.408	5.341	0.60317	1337.9
51.2037	0.6179	-0.1327	0.63196	0.68315	26.684	5.383	0.60576	1341.2
50.5076	0.6194	-0.1180	0.63052	0.69424	26.930	5.420	0.60806	1344.2
49.8718	0.6207	-0.1034	0.62926	0.70530	27.146	5.454	0.61010	1346.8
49.1758	0.6219	-0.0888	0.62816	0.71639	27.334	5.482	0.61186	1349.0
48.4798	0.6228	-0.0742	0.62723	0.72752	27.495	5.507	0.61337	1350.9
47.7839	0.6236	-0.0596	0.62646	0.73876	27.628	5.527	0.61462	1352.5
47.0879	0.6242	-0.0448	0.62584	0.75012	27.734	5.543	0.61561	1353.7
46.3919	0.6247	-0.0300	0.62539	0.76166	27.811	5.555	0.61634	1354.6
45.6959	0.6249	-0.0151	0.62511	0.77340	27.859	5.562	0.61679	1355.2
45.0000	0.6250	-0.0000	0.62500	0.78539	27.876	5.565	0.61696	1355.4

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=50.8607 ENTRPHY=34.3151
GAMMA AVG. I=1.2999 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.8607	0.6312	-0.1273	0.64391	0.68862	46.052	6.091	0.54028	2045.6
50.2746	0.6324	-0.1146	0.64271	0.69821	46.470	6.133	0.54200	2049.9
49.6885	0.6335	-0.1019	0.64165	0.70774	46.843	6.171	0.54353	2053.7
49.1025	0.6345	-0.0893	0.64072	0.71724	47.172	6.205	0.54488	2057.0
48.5164	0.6353	-0.0766	0.63991	0.72673	47.457	6.233	0.54606	2059.8
47.9303	0.6360	-0.0640	0.63923	0.73627	47.701	6.258	0.54705	2062.3
47.3443	0.6366	-0.0513	0.63866	0.74586	47.902	6.278	0.54788	2064.3
46.7582	0.6370	-0.0386	0.63821	0.75554	48.061	6.294	0.54853	2065.9
46.1721	0.6374	-0.0258	0.63788	0.76534	48.178	6.306	0.54901	2067.0
45.5861	0.6375	-0.0130	0.63767	0.77528	48.249	6.313	0.54930	2067.7
45.0000	0.6376	0.0000	0.63760	0.78540	48.275	6.316	0.54941	2068.0

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10816.1 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=49.7079 ENTRPHY=35.5630
GAMMA AVG. I=1.1273 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
49.7079	0.6467	-0.1053	0.65519	0.70618	71.209	7.245	0.44385	2602.3
49.2371	0.6475	-0.0947	0.65437	0.71416	71.750	7.294	0.44463	2604.2
48.7663	0.6482	-0.0841	0.65365	0.72206	72.230	7.336	0.44532	2606.2
48.2955	0.6489	-0.0736	0.65302	0.72990	72.652	7.374	0.44594	2607.6
47.8247	0.6494	-0.0632	0.65247	0.73772	73.018	7.407	0.44642	2609.0
47.3539	0.6499	-0.0527	0.65201	0.74554	73.329	7.433	0.44686	2610.3
46.8831	0.6503	-0.0423	0.65163	0.75338	73.586	7.457	0.44725	2611.1
46.4123	0.6505	-0.0318	0.65132	0.76126	73.788	7.475	0.44752	2611.9
45.9415	0.6508	-0.0212	0.65111	0.76921	73.934	7.488	0.44774	2612.4
45.4708	0.6509	-0.0107	0.65097	0.77725	74.025	7.495	0.44787	2612.8
45.0000	0.6509	0.0000	0.65092	0.78539	74.057	7.498	0.44792	2612.9

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NB.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=48.7326 ENTRPHY=36.7804
GAMMA (AVG.)=1.1274 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
48.7326	0.6596	-0.0852	0.66505	0.72208	101.986	8.822	0.39224	2941.3
48.3594	0.6601	-0.0766	0.66452	0.72845	102.605	8.869	0.39276	2943.1
47.9861	0.6606	-0.0681	0.66406	0.73477	103.156	8.911	0.39323	2944.6
47.6128	0.6610	-0.0596	0.66365	0.74105	103.641	8.947	0.39363	2946.2
47.2396	0.6613	-0.0511	0.66329	0.74732	104.061	8.979	0.39397	2947.3
46.8663	0.6616	-0.0427	0.66299	0.75359	104.419	9.005	0.39426	2948.5
46.4930	0.6619	-0.0342	0.66275	0.75987	104.713	9.028	0.39450	2949.0
46.1198	0.6621	-0.0257	0.66255	0.76618	104.944	9.045	0.39469	2949.9
45.7465	0.6622	-0.0172	0.66241	0.77252	105.112	9.058	0.39485	2950.3
45.3732	0.6623	-0.0086	0.66232	0.77892	105.215	9.065	0.39493	2950.7
45.0000	0.6623	-0.0000	0.66229	0.78540	105.252	9.068	0.39497	2950.9

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=48.1698 ENTRPHY=38.0192
GAMMA (AVG.)=1.1675 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
48.1698	0.6669	-0.0732	0.67092	0.73145	138.389	10.184	0.36646	3299.7
47.8528	0.6673	-0.0658	0.67054	0.73686	139.104	10.229	0.36688	3301.5
47.5358	0.6676	-0.0585	0.67020	0.74224	139.741	10.269	0.36724	3303.4
47.2188	0.6679	-0.0512	0.66990	0.74760	140.302	10.305	0.36757	3304.8
46.9018	0.6682	-0.0439	0.66964	0.75295	140.790	10.334	0.36783	3306.4
46.5849	0.6684	-0.0366	0.66942	0.75830	141.204	10.361	0.36807	3307.5
46.2679	0.6686	-0.0293	0.66924	0.76366	141.545	10.382	0.36826	3308.4
45.9509	0.6687	-0.0220	0.66910	0.76904	141.813	10.400	0.36841	3308.9
45.6339	0.6688	-0.0147	0.66899	0.77445	142.006	10.411	0.36854	3309.8
45.3170	0.6689	-0.0074	0.66893	0.77990	142.125	10.418	0.36859	3310.1
45.0000	0.6689	0.0000	0.66891	0.78540	142.168	10.422	0.36861	3309.9

CONF 5001-450 445.0
 CASE STAG-2-072225

MACH NO.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE=487.00 DEG. R
 VELOCITY= 19673.0 FT./SEC. ENTRPHY=30.3778

FLBM PROPERTIES

SHOCK ANGLE=47.0737 ENTRPHY=47.7872
 GAMMA (AVG.)=1.2215 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=45.0
 FREE STREAM CONDITIONS
 MACH NO.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 17308.9 FT./SEC. ENTRPHY=30.3778

FLBM PROPERTIES

SHOCK ANGLE=47.9380 ENTRPHY=39.3086
 GAMMA (AVG.)=1.2215 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	M	M ²	V	U/ETA	P	RHS	MU	T (K)
47.9380	0.6699	-0.0681	0.67338	0.73536	180.423	10.901	0.36042	3823.3
47.6442	0.6703	-0.0613	0.67305	0.74037	181.286	10.943	0.36082	3826.2
47.3504	0.6706	-0.0545	0.67276	0.74535	182.056	10.981	0.36116	3828.8
47.0566	0.6708	-0.0477	0.67250	0.75032	182.735	11.014	0.36146	3831.3
46.7628	0.6710	-0.0409	0.67228	0.75528	183.325	11.042	0.36171	3833.4
46.4690	0.6712	-0.0341	0.67209	0.76025	183.926	11.066	0.36194	3835.1
46.1752	0.6714	-0.0273	0.67193	0.76523	184.539	11.087	0.36211	3836.2
45.8814	0.6715	-0.0205	0.67181	0.77022	184.563	11.103	0.36225	3837.4
45.5876	0.6716	-0.0137	0.67172	0.77524	184.798	11.114	0.36235	3838.3
45.2938	0.6716	-0.0069	0.67166	0.78030	184.941	11.121	0.36242	3838.6
45.0000	0.6716	0.0000	0.67164	0.78540	184.993	11.123	0.36245	3839.0

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.7487 ENTRBPY=41.9992
GAMMA (AVG.)=1.1605 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.7487	0.6724	-0.0640	0.67542	0.73844	281.285	11.561	0.33893	5225.0
47.4738	0.6727	-0.0576	0.67513	0.74315	282.552	11.607	0.33917	5227.4
47.1989	0.6729	-0.0512	0.67487	0.74784	283.683	11.648	0.33938	5229.5
46.9240	0.6732	-0.0448	0.67465	0.75251	284.680	11.683	0.33957	5231.5
46.6492	0.6734	-0.0384	0.67445	0.75717	285.546	11.714	0.33973	5233.0
46.3743	0.6735	-0.0321	0.67428	0.76183	286.281	11.740	0.33987	5234.5
46.0994	0.6737	-0.0257	0.67414	0.76650	286.886	11.762	0.33999	5235.6
45.8246	0.6738	-0.0193	0.67403	0.77118	287.360	11.779	0.34008	5236.5
45.5497	0.6738	-0.0129	0.67395	0.77589	287.704	11.791	0.34014	5237.1
45.2748	0.6739	-0.0064	0.67391	0.78063	287.914	11.798	0.34018	5237.6
45.0000	0.6739	0.0000	0.67389	0.78540	287.989	11.801	0.34019	5237.7

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.5551 ENTRBPY=43.3380
GAMMA (AVG.)=1.1412 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.5551	0.6749	-0.0598	0.67752	0.74166	340.090	12.346	0.32354	5661.3
47.2996	0.6751	-0.0538	0.67727	0.74605	341.518	12.392	0.32374	5663.4
47.0440	0.6754	-0.0478	0.67704	0.75042	342.793	12.432	0.32393	5665.2
46.7885	0.6756	-0.0418	0.67684	0.75477	343.917	12.468	0.32409	5667.0
46.5330	0.6757	-0.0359	0.67667	0.75912	344.892	12.499	0.32423	5668.4
46.2775	0.6759	-0.0299	0.67653	0.76346	345.720	12.525	0.32434	5669.6
46.0220	0.6760	-0.0240	0.67641	0.76781	346.401	12.547	0.32444	5670.7
45.7665	0.6761	-0.0180	0.67631	0.77217	346.935	12.564	0.32452	5671.6
45.5110	0.6761	-0.0120	0.67624	0.77655	347.322	12.576	0.32457	5672.1
45.2555	0.6762	-0.0060	0.67620	0.78096	347.558	12.584	0.32460	5672.4
45.0000	0.6762	0.0000	0.67619	0.78540	347.643	12.586	0.32462	5672.5

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 066. K
VELOCITY= 25063.4 FT./SEC. ENTRPHY=30.3778

FLW PROPERTIES

SHOCK ANGLE=47.3798 ENTRPHY=44.7107
GAMMA (AVG.)=1.1317 STAG. ENTHALPHY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
47.3798	0.6771	-0.0550	0.67944	0.74459	404.495	13.168	0.31056	6011.4
47.1418	0.6774	-0.0503	0.67922	0.74869	406.080	13.214	0.31074	6013.4
46.9038	0.6775	-0.0447	0.67902	0.75277	407.495	13.255	0.31089	6015.0
46.6658	0.6777	-0.0391	0.67885	0.75683	408.742	13.290	0.31103	6016.6
46.4278	0.6779	-0.0335	0.67870	0.76089	409.825	13.321	0.31116	6018.0
46.1899	0.6780	-0.0280	0.67857	0.76494	410.744	13.348	0.31126	6019.1
45.9519	0.6781	-0.0224	0.67846	0.76900	411.499	13.369	0.31134	6020.1
45.7139	0.6782	-0.0168	0.67836	0.77307	412.092	13.386	0.31141	6020.7
45.4759	0.6782	-0.0112	0.67832	0.77715	412.520	13.399	0.31145	6021.2
45.2379	0.6783	-0.0056	0.67829	0.78126	412.782	13.406	0.31148	6021.7
45.0000	0.6783	-0.0000	0.67827	0.78540	412.876	13.408	0.31150	6021.8

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 066. K
VELOCITY= 28127.0 FT./SEC. ENTRPHY=30.3778

FLW PROPERTIES

SHOCK ANGLE=47.2278 ENTRPHY=46.1198
GAMMA (AVG.)=1.1304 STAG. ENTHALPHY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
47.2278	0.6791	-0.0525	0.68111	0.74715	474.503	13.988	0.30001	6303.5
47.0050	0.6793	-0.0472	0.68091	0.75100	476.246	14.033	0.30017	6305.4
46.7822	0.6794	-0.0420	0.68074	0.75482	477.801	14.074	0.30031	6306.9
46.5594	0.6796	-0.0367	0.68059	0.75863	479.173	14.110	0.30043	6308.4
46.3367	0.6797	-0.0315	0.68046	0.76243	480.364	14.140	0.30054	6309.7
46.1139	0.6798	-0.0263	0.68035	0.76623	481.374	14.167	0.30063	6310.7
45.8911	0.6799	-0.0210	0.68025	0.77004	482.205	14.188	0.30071	6311.6
45.6683	0.6800	-0.0158	0.68018	0.77385	482.856	14.205	0.30077	6312.3
45.4455	0.6800	-0.0105	0.68013	0.77768	483.326	14.218	0.30081	6312.7
45.2227	0.6801	-0.0053	0.68010	0.78153	483.614	14.225	0.30084	6313.1
45.0000	0.6801	0.0000	0.68008	0.78540	483.717	14.228	0.30084	6313.2

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=28.05 ALTITUDE=15500.0 FEET PRESSURE=2.4030E 03 PSF

DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 487.00 DEG. K

VELOCITY= 30240.6 FT./SEC. ENTRPHY=43.3775

FLOW PROPERTIES

SHOCK ANGLE=47.1014 ENTRPHY=47.5656

GAMMA (AVG.)=1.1357 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0040	0.6819	-0.0474	0.68359	0.75095	631.331	15.423	0.28601	6642.9
46.8036	0.6821	-0.0427	0.68344	0.75440	633.418	15.469	0.28615	6844.5
46.6032	0.6822	-0.0379	0.68329	0.75785	635.282	15.509	0.28627	6846.4
46.4028	0.6824	-0.0332	0.68317	0.76128	636.927	15.544	0.28638	6847.9
46.2024	0.6825	-0.0285	0.68306	0.76471	638.354	15.574	0.28647	6849.2
46.0020	0.6826	-0.0237	0.68297	0.76813	639.565	15.600	0.28655	6850.2
45.8016	0.6826	-0.0190	0.68290	0.77156	640.561	15.621	0.28661	6851.2
45.6012	0.6827	-0.0143	0.68284	0.77500	641.341	15.638	0.28666	6851.8
45.4008	0.6827	-0.0095	0.68280	0.77845	641.904	15.650	0.28670	6852.5
45.2004	0.6828	-0.0048	0.68277	0.78191	642.248	15.657	0.28672	6852.7
45.0000	0.6828	0.0000	0.68276	0.78540	642.371	15.660	0.28673	6852.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF

DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K

VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.0040 ENTRPHY=49.0461

GAMMA (AVG.)=1.1451 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0040	0.6819	-0.0474	0.68359	0.75095	631.331	15.423	0.28601	6642.9
46.8036	0.6821	-0.0427	0.68344	0.75440	633.418	15.469	0.28615	6844.5
46.6032	0.6822	-0.0379	0.68329	0.75785	635.282	15.509	0.28627	6846.4
46.4028	0.6824	-0.0332	0.68317	0.76128	636.927	15.544	0.28638	6847.9
46.2024	0.6825	-0.0285	0.68306	0.76471	638.354	15.574	0.28647	6849.2
46.0020	0.6826	-0.0237	0.68297	0.76813	639.565	15.600	0.28655	6850.2
45.8016	0.6826	-0.0190	0.68290	0.77156	640.561	15.621	0.28661	6851.2
45.6012	0.6827	-0.0143	0.68284	0.77500	641.341	15.638	0.28666	6851.8
45.4008	0.6827	-0.0095	0.68280	0.77845	641.904	15.650	0.28670	6852.5
45.2004	0.6828	-0.0048	0.68277	0.78191	642.248	15.657	0.28672	6852.7
45.0000	0.6828	0.0000	0.68276	0.78540	642.371	15.660	0.28673	6852.8

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=46.8922 ENTROPY=52.8583
GAMMA (AVG.)=1.1665 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
46.8922	0.6834	-0.0449	0.68484	0.75285	858.912	16.270	0.28035	7796.7
46.7029	0.6835	-0.0404	0.68470	0.75612	861.592	16.313	0.28048	7799.3
46.5137	0.6836	-0.0359	0.68456	0.75937	863.987	16.352	0.28059	7801.7
46.3245	0.6837	-0.0314	0.68447	0.76261	866.100	16.385	0.28069	7803.9
46.1353	0.6838	-0.0249	0.68437	0.76585	867.934	16.415	0.28078	7805.8
45.9461	0.6839	-0.0225	0.68429	0.76909	869.491	16.440	0.28085	7807.2
45.7568	0.6840	-0.0180	0.68422	0.77233	870.770	16.460	0.28092	7808.8
45.5676	0.6840	-0.0135	0.68417	0.77558	871.772	16.477	0.28096	7809.6
45.3784	0.6841	-0.0090	0.68413	0.77884	872.496	16.488	0.28100	7810.4
45.1892	0.6841	-0.0045	0.68411	0.78211	872.938	16.496	0.28102	7810.6
45.0000	0.6841	0.0000	0.68410	0.78540	873.096	16.498	0.28103	7811.1

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=47.0213 ENTROPY=56.7257
GAMMA (AVG.)=1.2116 STAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
47.0213	0.6817	-0.0478	0.68340	0.75069	1121.640	15.309	0.29560	9819.8
46.8192	0.6819	-0.0430	0.68324	0.75417	1125.370	15.351	0.29575	9824.7
46.6170	0.6820	-0.0382	0.68310	0.75763	1128.703	15.388	0.29588	9829.1
46.4149	0.6822	-0.0335	0.68297	0.76108	1131.045	15.421	0.29600	9833.1
46.2128	0.6823	-0.0287	0.68286	0.76453	1134.199	15.450	0.29610	9836.5
46.0106	0.6823	-0.0239	0.68277	0.76799	1136.368	15.475	0.29618	9839.3
45.8085	0.6824	-0.0192	0.68269	0.77144	1138.152	15.495	0.29625	9841.6
45.6064	0.6825	-0.0144	0.68263	0.77491	1139.550	15.511	0.29631	9843.4
45.4042	0.6825	-0.0096	0.68259	0.77839	1140.559	15.522	0.29635	9844.8
45.2021	0.6825	-0.0048	0.68256	0.78188	1141.176	15.529	0.29637	9845.6
45.0000	0.6826	-0.0000	0.68255	0.78540	1141.397	15.532	0.29638	9845.9

CBNE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=58.3258 ENTRBPY=31.8704
GAMMA (AVG.)=1.3480 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.3258	0.5250	-0.1961	0.56045	0.66047	13.485	4.339	0.88173	840.9
57.2432	0.5285	-0.1767	0.55725	0.67646	13.658	4.380	0.89062	843.7
56.1606	0.5316	-0.1573	0.55441	0.69248	13.813	4.417	0.89864	846.1
55.0780	0.5344	-0.1380	0.55191	0.70855	13.949	4.449	0.90582	848.3
53.9955	0.5368	-0.1187	0.54973	0.72477	14.068	4.477	0.91217	850.1
52.9129	0.5388	-0.0993	0.54786	0.74120	14.170	4.501	0.91768	851.7
51.8303	0.5404	-0.0798	0.54631	0.75793	14.255	4.521	0.92231	853.0
50.7477	0.5417	-0.0602	0.54506	0.77500	14.323	4.537	0.92604	854.1
49.6651	0.5426	-0.0404	0.54414	0.79250	14.373	4.549	0.92881	854.8
48.5825	0.5432	-0.0203	0.54356	0.81048	14.404	4.556	0.93055	855.3
47.5000	0.5433	0.0000	0.54333	0.82903	14.415	4.559	0.93120	855.5

CBNE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRBPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=56.2663 ENTRBPY=32.5567
GAMMA (AVG.)=1.3273 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
56.2663	0.5553	-0.1677	0.58007	0.68870	20.324	4.958	0.74756	1109.1
55.3896	0.5577	-0.1510	0.57776	0.70231	20.553	5.000	0.75243	1112.2
54.5130	0.5599	-0.1344	0.57576	0.71586	20.756	5.037	0.75679	1114.9
53.6364	0.5618	-0.1178	0.57398	0.72943	20.936	5.070	0.76066	1117.3
52.7597	0.5634	-0.1012	0.57243	0.74306	21.092	5.098	0.76405	1119.3
51.8831	0.5648	-0.0846	0.57111	0.75681	21.226	5.123	0.76695	1121.1
51.0065	0.5660	-0.0680	0.57002	0.77072	21.337	5.143	0.76938	1122.5
50.1299	0.5668	-0.0512	0.56914	0.78485	21.425	5.159	0.77130	1123.6
49.2532	0.5675	-0.0343	0.56850	0.79925	21.490	5.171	0.77273	1124.5
48.3766	0.5678	-0.0173	0.56810	0.81395	21.530	5.178	0.77361	1125.0
47.5000	0.5679	0.0000	0.56794	0.82903	21.545	5.181	0.77394	1125.2

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 6490.8 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=55.1282 ENTRØPY=33.2382
GAMMA (AVG.)=1.3132 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
55.1282	0.5717	-0.1503	0.59113	0.70515	28.711	5.460	0.67675	1422.8
54.3654	0.5736	-0.1353	0.58932	0.71728	29.004	5.502	0.68014	1426.3
53.6026	0.5753	-0.1203	0.58772	0.72935	29.264	5.540	0.68316	1429.3
52.8398	0.5768	-0.1054	0.58631	0.74141	29.494	5.573	0.68583	1432.0
52.0769	0.5780	-0.0906	0.58509	0.75350	29.694	5.601	0.68817	1434.3
51.3141	0.5791	-0.0757	0.58405	0.76566	29.864	5.626	0.69016	1436.2
50.5513	0.5800	-0.0607	0.58319	0.77795	30.006	5.646	0.69182	1437.9
49.7885	0.5807	-0.0457	0.58250	0.79038	30.118	5.662	0.69313	1439.1
49.0256	0.5812	-0.0306	0.58200	0.80302	30.200	5.674	0.69409	1440.1
48.2628	0.5815	-0.0154	0.58168	0.81588	30.250	5.681	0.69469	1440.6
47.5000	0.5816	-0.0000	0.58156	0.82903	30.269	5.684	0.69491	1440.9

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 8654.5 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHØCK ANGLE=53.9297 ENTRØPY=34.5230
GAMMA (AVG.)=1.2982 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
53.9297	0.5888	-0.1305	0.60305	0.72314	50.088	6.194	0.60362	2187.9
53.2867	0.5901	-0.1174	0.60171	0.73359	50.535	6.237	0.60584	2192.3
52.6438	0.5914	-0.1044	0.60052	0.74399	50.933	6.274	0.60782	2196.3
52.0008	0.5925	-0.0915	0.59947	0.75436	51.284	6.308	0.60956	2199.7
51.3578	0.5934	-0.0786	0.59857	0.76474	51.589	6.337	0.61108	2202.7
50.7148	0.5942	-0.0656	0.59780	0.77517	51.849	6.361	0.61237	2205.3
50.0719	0.5948	-0.0526	0.59716	0.78567	52.064	6.381	0.61344	2207.4
49.4289	0.5953	-0.0396	0.59665	0.79628	52.234	6.398	0.61429	2209.0
48.7859	0.5957	-0.0265	0.59628	0.80703	52.358	6.409	0.61490	2210.2
48.1429	0.5959	-0.0133	0.59605	0.81793	52.435	6.416	0.61529	2211.0
47.5000	0.5960	0.0000	0.59596	0.82903	52.463	6.419	0.61543	2211.3

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10818.1 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.4517 ENTRPHY=35.8264
GAMMA (AVG.)=1.1231 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.4517	0.6094	-0.1044	0.61830	0.74571	77.410	7.591	0.48093	2678.5
51.9565	0.5103	-0.0939	0.61745	0.75408	77.966	7.639	0.48184	2680.4
51.4614	0.6110	-0.0835	0.61670	0.76237	78.561	7.681	0.48268	2682.3
50.9662	0.6117	-0.0731	0.61604	0.77062	78.897	7.718	0.48341	2683.9
50.4710	0.6123	-0.0627	0.61547	0.77885	79.274	7.751	0.48403	2685.0
49.9758	0.6128	-0.0523	0.61499	0.78707	79.595	7.778	0.48456	2686.1
49.4807	0.6132	-0.0419	0.61459	0.79533	79.859	7.801	0.48499	2687.1
48.9855	0.6135	-0.0315	0.61427	0.80363	80.067	7.818	0.48534	2688.0
48.4903	0.6137	-0.0211	0.61404	0.81200	80.218	7.831	0.48557	2688.4
47.9951	0.6138	-0.0106	0.61390	0.82046	80.311	7.839	0.48576	2688.9
47.5000	0.6138	-0.0000	0.61385	0.82903	80.345	7.842	0.48579	2689.0

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=51.4333 ENTRPHY=37.0978
GAMMA (AVG.)=1.1347 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.4333	0.6234	-0.0849	0.62917	0.76232	110.863	9.209	0.42649	3027.8
51.0400	0.6240	-0.0764	0.62862	0.76902	111.504	9.255	0.42711	3029.5
50.6467	0.6245	-0.0679	0.62813	0.77567	112.074	9.296	0.42763	3031.2
50.2533	0.6249	-0.0594	0.62770	0.78229	112.577	9.332	0.42812	3032.6
49.8600	0.6253	-0.0510	0.62733	0.78889	113.013	9.364	0.42852	3033.7
49.4667	0.6256	-0.0425	0.62702	0.79550	113.383	9.391	0.42887	3034.9
49.0733	0.6258	-0.0341	0.62676	0.80212	113.689	9.412	0.42918	3035.9
48.6800	0.6260	-0.0256	0.62655	0.80877	113.928	9.430	0.42941	3036.3
48.2867	0.6262	-0.0171	0.62640	0.81546	114.102	9.443	0.42956	3036.8
47.8933	0.6263	-0.0086	0.62631	0.82221	114.209	9.450	0.42966	3037.2
47.5000	0.6263	-0.0000	0.62628	0.82903	114.247	9.453	0.42969	3037.3

CBNE SF=1-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=15500.0 FEET PRESSURE=2.1030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=50.8850 ENTRPHY=38.4000
GAMMA (AVG.=1.1843) STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.8850	0.6309	-0.0739	0.63519	0.77146	150.447	10.495	0.40228	3429.6
50.5465	0.6313	-0.0665	0.63478	0.77722	151.197	10.539	0.40277	3431.8
50.2080	0.6317	-0.0591	0.63441	0.78296	151.867	10.579	0.40322	3433.6
49.8695	0.6320	-0.0518	0.63409	0.78867	152.457	10.613	0.40359	3435.5
49.5310	0.6323	-0.0444	0.63381	0.79438	152.970	10.644	0.40391	3436.6
49.1925	0.6325	-0.0370	0.63357	0.80009	153.406	10.671	0.40423	3437.6
48.8540	0.6327	-0.0297	0.63338	0.80582	153.764	10.691	0.40444	3438.8
48.5155	0.6328	-0.0223	0.63322	0.81156	154.046	10.708	0.40463	3439.7
48.1770	0.6329	-0.0149	0.63311	0.81734	154.250	10.719	0.40476	3440.5
47.8385	0.6330	-0.0075	0.63304	0.82316	154.375	10.726	0.40484	3440.8
47.5000	0.6330	0.0000	0.63302	0.82904	154.420	10.729	0.40486	3441.0

CBNE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=50.8662 ENTRPHY=39.9105
GAMMA (AVG.=1.12257) STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.8662	0.6311	-0.0735	0.63540	0.77182	196.201	10.551	0.40814	4202.4
50.5296	0.6315	-0.0662	0.63499	0.77754	197.173	10.592	0.40860	4206.5
50.1929	0.6319	-0.0588	0.63463	0.78323	198.040	10.629	0.40901	4209.8
49.8563	0.6322	-0.0515	0.63431	0.78891	198.806	10.661	0.40938	4212.9
49.5197	0.6325	-0.0442	0.63403	0.79458	199.471	10.689	0.40971	4215.8
49.1831	0.6327	-0.0368	0.63380	0.80025	200.036	10.713	0.40997	4217.8
48.8465	0.6329	-0.0295	0.63361	0.80594	200.501	10.732	0.41019	4219.8
48.5098	0.6331	-0.0222	0.63345	0.81165	200.866	10.748	0.41037	4221.2
48.1732	0.6332	-0.0148	0.63334	0.81740	201.131	10.759	0.41050	4222.2
47.8366	0.6332	-0.0074	0.63327	0.82319	201.293	10.766	0.41057	4222.7
47.5000	0.6332	0.0000	0.63325	0.82903	201.351	10.768	0.41060	4223.0

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=50.6750 ENTROPY=41.2031
GAMMA (AVG.)=1.1785 STAG. ENTHALPY=1.9251E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.6750	0.6337	-0.0697	0.63754	0.77492	247.982	11.101	0.38757	4908.5
50.3575	0.6341	-0.0627	0.63717	0.78034	249.148	11.145	0.38791	4911.2
50.0400	0.6344	-0.0557	0.63685	0.78573	250.189	11.186	0.38822	4913.6
49.7225	0.6347	-0.0488	0.63656	0.79111	251.107	11.221	0.38849	4915.7
49.4050	0.6349	-0.0418	0.63631	0.79648	251.904	11.252	0.38872	4917.5
49.0875	0.6351	-0.0349	0.63610	0.80185	252.581	11.278	0.38892	4919.0
48.7700	0.6353	-0.0280	0.63593	0.80723	253.139	11.299	0.38909	4920.2
48.4525	0.6354	-0.0210	0.63579	0.81263	253.576	11.316	0.38921	4921.1
48.1350	0.6355	-0.0140	0.63569	0.81805	253.893	11.328	0.38931	4922.0
47.8175	0.6356	-0.0070	0.63563	0.82352	254.087	11.336	0.38936	4922.4
47.5000	0.6356	0.0000	0.63561	0.82903	254.156	11.339	0.38938	4922.5

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=50.4367 ENTROPY=42.5696
GAMMA (AVG.)=1.1510 STAG. ENTHALPY=2.3699E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.4367	0.6369	-0.0648	0.64022	0.77885	305.831	11.891	0.36734	5424.1
50.1431	0.6372	-0.0583	0.63990	0.78388	307.168	11.937	0.36763	5426.4
49.8494	0.6375	-0.0518	0.63962	0.78889	308.361	11.978	0.36788	5428.4
49.5557	0.6378	-0.0454	0.63938	0.79388	309.413	12.013	0.36810	5430.3
49.2620	0.6380	-0.0389	0.63916	0.79886	310.326	12.044	0.36829	5431.9
48.9684	0.6382	-0.0325	0.63898	0.80385	311.101	12.071	0.36845	5433.1
48.6747	0.6383	-0.0260	0.63883	0.80884	311.739	12.092	0.36859	5434.2
48.3810	0.6384	-0.0195	0.63871	0.81384	312.239	12.109	0.36869	5435.2
48.0873	0.6385	-0.0130	0.63863	0.81887	312.601	12.121	0.36877	5435.7
47.7936	0.6385	-0.0065	0.63858	0.82393	312.823	12.129	0.36882	5436.1
47.5000	0.6386	0.0000	0.63856	0.82903	312.902	12.131	0.36883	5436.2

CBNE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=154500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRAPPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=50.2207 ENTRAPPY=43.9809
GAMMA (AVG.)=1.1356 STAG. ENTHALPY=2.8614E 08 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.2207	0.6398	-0.0604	0.64267	0.78245	369.766	12.731	0.35043	5835.5
49.9486	0.6401	-0.0543	0.64240	0.78713	371.268	12.777	0.35066	5837.7
49.6765	0.6403	-0.0483	0.64216	0.79178	372.609	12.817	0.35088	5839.6
49.4045	0.6406	-0.0422	0.64194	0.79641	373.791	12.853	0.35107	5841.1
49.1324	0.6407	-0.0362	0.64176	0.80104	374.817	12.884	0.35123	5842.6
48.8603	0.6409	-0.0302	0.64160	0.80567	375.688	12.911	0.35136	5843.7
48.5883	0.6410	-0.0242	0.64147	0.81030	376.404	12.932	0.35148	5844.7
48.3162	0.6411	-0.0182	0.64137	0.81495	376.966	12.949	0.35157	5845.4
48.0441	0.6412	-0.0121	0.64130	0.81961	377.372	12.961	0.35163	5846.0
47.7721	0.6412	-0.0061	0.64125	0.82431	377.620	12.969	0.35167	5846.3
47.5000	0.6412	0.0000	0.64124	0.82903	377.709	12.971	0.35168	5846.5

CBNE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NB.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRAPPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=50.0302 ENTRAPPY=45.4307
GAMMA (AVG.)=1.1302 STAG. ENTHALPY=3.3997E 08 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.0302	0.6424	-0.0584	0.64485	0.78565	439.789	13.592	0.33653	6167.0
49.7772	0.6426	-0.0507	0.64461	0.79000	441.454	13.638	0.33674	6168.8
49.5242	0.6428	-0.0451	0.64440	0.79433	442.940	13.679	0.33692	6170.5
49.2712	0.6430	-0.0395	0.64422	0.79865	444.251	13.714	0.33709	6172.0
49.0181	0.6432	-0.0338	0.64406	0.80297	445.399	13.745	0.33723	6173.4
48.7651	0.6433	-0.0282	0.64392	0.80728	446.355	13.772	0.33735	6174.3
48.5121	0.6434	-0.0226	0.64381	0.81159	447.149	13.793	0.33745	6175.2
48.2591	0.6435	-0.0170	0.64372	0.81592	447.771	13.811	0.33752	6175.8
48.0060	0.6436	-0.0113	0.64366	0.82027	448.221	13.823	0.33758	6176.5
47.7530	0.6436	-0.0057	0.64362	0.82464	448.496	13.830	0.33761	6176.7
47.5000	0.6436	0.0000	0.64360	0.82903	448.594	13.833	0.33763	6176.8

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=49.8698 ENTROPY=46.9204
GAMMA (AVG.)=1.1327 STAG. ENTHALPY=3.9849E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
49.8698	0.6445	-0.0530	0.64670	0.78835	515.902	14.426	0.32562	6452.6
49.6329	0.6447	-0.0477	0.64649	0.79243	517.734	14.471	0.32581	6454.4
49.3959	0.6449	-0.0424	0.64631	0.79649	519.370	14.512	0.32597	6455.9
49.1589	0.6451	-0.0371	0.64614	0.80055	520.813	14.547	0.32612	6457.3
48.9219	0.6452	-0.0318	0.64600	0.80459	522.065	14.578	0.32625	6458.6
48.6849	0.6453	-0.0265	0.64588	0.80864	523.128	14.604	0.32635	6459.6
48.4479	0.6454	-0.0212	0.64578	0.81269	524.002	14.626	0.32644	6460.5
48.2109	0.6455	-0.0159	0.64570	0.81674	524.687	14.642	0.32651	6461.3
47.9739	0.6456	-0.0106	0.64565	0.82082	525.181	14.655	0.32656	6461.6
47.7370	0.6456	-0.0053	0.64561	0.82491	525.484	14.662	0.32659	6462.0
47.5000	0.6456	0.0000	0.64560	0.82903	525.592	14.665	0.32660	6462.2

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTROPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=49.7428 ENTROPY=48.4489
GAMMA (AVG.)=1.1410 STAG. ENTHALPY=4.6169E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
49.7428	0.6462	-0.0503	0.64817	0.79050	598.111	15.173	0.31760	6730.2
49.5185	0.6464	-0.0453	0.64799	0.79436	600.123	15.218	0.31777	6731.9
49.2942	0.6466	-0.0402	0.64782	0.79821	601.920	15.258	0.31792	6733.4
49.0699	0.6467	-0.0352	0.64767	0.80205	603.505	15.293	0.31806	6735.0
8.8456	0.6468	-0.0302	0.64754	0.80588	604.881	15.324	0.31817	6736.2
8.6214	0.6469	-0.0252	0.64744	0.80972	606.048	15.350	0.31827	6737.5
1.3071	0.6470	-0.0202	0.64735	0.81355	607.008	15.371	0.31835	6738.2
1.1728	0.6471	-0.0151	0.64728	0.81740	607.760	15.388	0.31841	6738.8
1.9485	0.6471	-0.0101	0.64723	0.82126	608.303	15.400	0.31846	6739.5
1.7243	0.6472	-0.0051	0.64720	0.82513	608.635	15.407	0.31849	6739.8
1.75000	0.6472	0.0000	0.64718	0.82903	608.754	15.410	0.31850	6739.9

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=49.6508 ENTRPHY=50.0124
GAMMA (AVG.)=1.1521 STAG. ENTHALPY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.6508	0.6474	-0.0483	0.64924	0.79206	686.420	15.769	0.31233	7039.5
49.4357	0.6476	-0.0435	0.64907	0.79577	688.634	15.813	0.31249	7041.6
49.2207	0.6478	-0.0387	0.64892	0.79946	690.613	15.853	0.31264	7043.2
49.0056	0.6479	-0.0338	0.64878	0.80314	692.359	15.887	0.31277	7045.0
48.7905	0.6480	-0.0290	0.64866	0.80682	693.674	15.918	0.31288	7046.2
48.5754	0.6481	-0.0242	0.64857	0.81050	695.160	15.944	0.31297	7047.5
48.3603	0.6482	-0.0194	0.64848	0.81418	696.217	15.965	0.31305	7048.3
48.1452	0.6483	-0.0145	0.64842	0.81787	697.045	15.981	0.31311	7049.2
47.9302	0.6483	-0.0097	0.64837	0.82157	697.643	15.993	0.31315	7049.7
47.7151	0.6483	-0.0049	0.64834	0.82529	698.009	16.000	0.31318	7050.1
47.5000	0.6483	0.0000	0.64833	0.82903	698.139	16.003	0.31319	7050.1

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=49.5861 ENTRPHY=54.0155
GAMMA (AVG.)=1.1656 STAG. ENTHALPY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.5861	0.6483	-0.0469	0.65000	0.79516	933.893	16.220	0.30919	8223.0
49.3775	0.6485	-0.0422	0.64984	0.79676	936.816	16.263	0.30937	8225.9
49.1688	0.6486	-0.0375	0.64969	0.80034	939.428	16.301	0.30953	8228.7
48.9602	0.6487	-0.0329	0.64957	0.80391	941.733	16.334	0.30968	8231.3
48.7516	0.6488	-0.0282	0.64946	0.80748	943.734	16.363	0.30980	8233.3
48.5430	0.6489	-0.0235	0.64936	0.81105	945.431	16.388	0.30991	8235.2
48.3344	0.6490	-0.0188	0.64928	0.81462	946.827	16.408	0.30999	8236.7
48.1258	0.6491	-0.0141	0.64922	0.81820	947.920	16.424	0.31006	8237.9
47.9172	0.6491	-0.0094	0.64918	0.82179	948.710	16.436	0.31011	8238.8
47.7086	0.6491	-0.0047	0.64915	0.82540	949.192	16.443	0.31013	8239.3
47.5000	0.6491	-0.0000	0.64914	0.82903	949.365	16.445	0.31015	8239.6

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 43272.3 FT./SEC. ENTRPHY=30.3778

FLBN PROPERTIES

SHOCK ANGLE=49.7492 ENTRPHY=57.9733
 GAMMA (AVG.)=1.1996 STAG. ENTHALPHY=9.3917E 00 FT. SQ./SEC. SQ.

ETA	WR	VN	V	THETA	P	RHO	MU	T (K)
49.7492	0.6461	-0.0504	0.64810	0.79043	219.641	15.140	0.32625	10579.0
49.5243	0.6463	-0.0454	0.64791	0.79429	223.746	15.183	0.32644	10583.7
49.2994	0.6465	-0.0403	0.64774	0.79814	227.415	15.221	0.32661	10588.0
49.0744	0.6466	-0.0353	0.64759	0.80198	230.653	15.254	0.32675	10591.7
48.8495	0.6468	-0.0303	0.64747	0.80582	233.464	15.284	0.32688	10594.9
48.6246	0.6469	-0.0252	0.64736	0.80966	235.851	15.308	0.32698	10597.8
48.3997	0.6470	-0.0202	0.64727	0.81351	237.814	15.329	0.32707	10599.9
48.1747	0.6470	-0.0152	0.64720	0.81736	239.352	15.345	0.32714	10601.7
47.9498	0.6471	-0.0101	0.64715	0.82123	240.463	15.356	0.32719	10602.9
47.7249	0.6471	-0.0051	0.64712	0.82512	241.143	15.363	0.32722	10603.7
47.5000	0.6471	-0.0000	0.64710	0.82903	241.386	15.366	0.32723	10603.9

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 4327.2 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=62.2914 ENTRØPY=31.9951
GAMMA (AVG.)=1.3437 STAG. ENTHALPY=1.2287E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
62.2914	0.4649	-0.1984	0.50545	0.60388	14.622	4.462	1.07040	886.6
61.0622	0.4689	-0.1786	0.50183	0.70147	14.805	4.504	1.08651	889.4
59.8331	0.4725	-0.1593	0.49861	0.71914	14.967	4.540	1.10142	891.9
58.6039	0.4756	-0.1398	0.49577	0.73698	15.110	4.572	1.11509	894.1
57.3748	0.4784	-0.1203	0.49329	0.75506	15.235	4.601	1.12744	896.0
56.1456	0.4807	-0.1007	0.49116	0.77347	15.342	4.625	1.13838	897.6
54.9165	0.4826	-0.0810	0.48938	0.79225	15.431	4.645	1.14776	898.9
53.6874	0.4841	-0.0611	0.48795	0.81149	15.503	4.661	1.15544	900.0
52.4582	0.4852	-0.0410	0.48689	0.83126	15.555	4.672	1.16121	900.7
51.2291	0.4858	-0.0207	0.48622	0.85162	15.588	4.680	1.16409	901.2
49.9999	0.4860	0.0000	0.48596	0.87267	15.601	4.683	1.16626	901.4

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 5409.0 FT./SEC. ENTRØPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=59.7887 ENTRØPY=32.7036
GAMMA (AVG.)=1.3238 STAG. ENTHALPY=1.7554E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
9.7887	0.5031	-0.1703	0.53118	0.71715	21.987	5.074	0.86680	1172.4
8.8098	0.5059	-0.1534	0.52861	0.73207	22.228	5.116	0.87402	1175.5
7.8309	0.5083	-0.1365	0.52633	0.74698	22.442	5.153	0.88052	1178.3
6.8521	0.5105	-0.1197	0.52433	0.76193	22.632	5.186	0.88639	1180.7
5.8732	0.5124	-0.1029	0.52258	0.77700	22.796	5.215	0.89144	1182.8
4.8943	0.5139	-0.0860	0.52109	0.79224	22.937	5.239	0.89586	1184.6
3.9155	0.5152	-0.0691	0.51985	0.80769	23.055	5.259	0.89955	1186.0
2.9366	0.5162	-0.0521	0.51886	0.82340	23.148	5.275	0.90250	1187.2
1.9577	0.5170	-0.0349	0.51813	0.83943	23.216	5.287	0.90469	1188.1
0.9788	0.5174	-0.0176	0.51767	0.85583	23.259	5.294	0.90605	1188.6
0.0000	0.5175	-0.0000	0.51750	0.87246	23.274	5.297	0.90655	1188.8

CBNE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 6490.8 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=58.4742 ENTRPHY=33.4050
 GAMMA (AVG.)=1.3105 STAG. ENTHALPY=2.3990E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.4742	0.5228	-0.1530	0.54479	0.73581	31.045	5.559	0.77386	1508.2
57.6268	0.5250	-0.1378	0.54276	0.74910	31.354	5.611	0.77862	1511.7
56.7794	0.5269	-0.1226	0.54096	0.76236	31.629	5.649	0.78288	1514.9
55.9320	0.5286	-0.1075	0.53937	0.77563	31.872	5.682	0.78666	1517.6
55.0845	0.5300	-0.0923	0.53799	0.78896	32.083	5.711	0.78997	1520.0
54.2371	0.5312	-0.0771	0.53682	0.80241	32.264	5.735	0.79281	1522.0
53.3897	0.5322	-0.0619	0.53584	0.81600	32.414	5.756	0.79517	1523.7
52.5423	0.5330	-0.0466	0.53507	0.82977	32.532	5.772	0.79706	1525.0
51.6948	0.5336	-0.0312	0.53450	0.84378	32.619	5.783	0.79844	1526.0
50.8474	0.5339	-0.0157	0.53414	0.85806	32.673	5.791	0.79930	1526.6
50.0000	0.5340	-0.0000	0.53400	0.87266	32.693	5.793	0.79962	1526.8

CBNE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
 DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
 VELOCITY= 8654.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=57.1277 ENTRPHY=34.7202
 GAMMA (AVG.)=1.2968 STAG. ENTHALPY=4.0375E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
57.1277	0.5427	-0.1336	0.55895	0.75574	54.151	6.287	0.68374	2330.3
56.4149	0.5443	-0.1202	0.55743	0.76722	54.626	6.330	0.68674	2335.0
55.7022	0.5457	-0.1070	0.55609	0.77864	55.048	6.367	0.68942	2339.1
54.9894	0.5469	-0.0937	0.55491	0.79007	55.421	6.400	0.69180	2342.7
54.2766	0.5480	-0.0805	0.55388	0.80152	55.746	6.429	0.69387	2345.9
53.5638	0.5489	-0.0672	0.55301	0.81304	56.022	6.454	0.69563	2348.5
52.8511	0.5496	-0.0539	0.55228	0.82465	56.251	6.474	0.69709	2350.7
52.1383	0.5502	-0.0406	0.55171	0.83638	56.432	6.490	0.69826	2352.4
51.4255	0.5506	-0.0272	0.55129	0.84827	56.564	6.502	0.69910	2353.7
50.7127	0.5509	-0.0136	0.55103	0.86036	56.646	6.509	0.69963	2354.5
50.0000	0.5509	-0.0000	0.55093	0.87266	56.676	6.512	0.69982	2354.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 10810.1 FT./SEC. ENTROPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=55.2536 ENTROPY=36.0786
GAMMA (AVG.)=1.1213 STAG. ENTHALPY=6.1440E 07 FT. SQ./SEC. 58.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.2536	0.5699	-0.1037	0.57930	0.78433	83.590	7.922	0.52569	2749.7
54.7282	0.5708	-0.0933	0.57840	0.79318	84.163	7.970	0.52686	2751.3
54.2029	0.5716	-0.0829	0.57761	0.80195	84.672	8.012	0.52786	2753.0
53.6775	0.5723	-0.0726	0.57691	0.81069	85.120	8.049	0.52871	2754.6
53.1521	0.5729	-0.0623	0.57631	0.81941	85.508	8.081	0.52951	2755.9
52.6268	0.5735	-0.0520	0.57580	0.82814	85.839	8.108	0.53019	2757.0
52.1014	0.5739	-0.0416	0.57538	0.83690	86.111	8.131	0.53071	2757.8
51.5761	0.5742	-0.0313	0.57505	0.84571	86.325	8.149	0.53114	2758.5
51.0507	0.5744	-0.0209	0.57481	0.85460	86.480	8.161	0.53143	2759.2
50.5253	0.5746	-0.0105	0.57466	0.86356	86.576	8.170	0.53164	2759.4
50.0000	0.5746	0.0000	0.57460	0.87267	86.610	8.173	0.53169	2759.4

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 12981.7 FT./SEC. ENTROPY=30.3778

FLW PROPERTIES

SHOCK ANGLE=54.1838 ENTROPY=37.4028
GAMMA (AVG.)=1.1438 STAG. ENTHALPY=8.7187E 07 FT. SQ./SEC. 59.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.1838	0.5852	-0.0868	0.59130	0.80173	119.696	9.559	0.46753	3113.2
53.7654	0.5858	-0.0763	0.59071	0.90883	120.359	9.605	0.46828	3115.0
53.3470	0.5863	-0.0678	0.59019	0.81589	120.949	9.647	0.46896	3116.3
52.9286	0.5867	-0.0594	0.58974	0.82292	121.470	9.682	0.46957	3118.1
52.5102	0.5871	-0.0509	0.58934	0.82994	121.922	9.713	0.47004	3119.4
52.0914	0.5875	-0.0425	0.58901	0.83696	122.306	9.741	0.47049	3120.2
51.6735	0.5877	-0.0340	0.58873	0.84401	122.622	9.763	0.47086	3121.0
51.2551	0.5880	-0.0256	0.58851	0.85108	122.870	9.779	0.47111	3121.8
50.8367	0.5881	-0.0171	0.58835	0.85820	123.050	9.792	0.47132	3122.2
50.4183	0.5882	-0.0086	0.58826	0.86539	123.161	9.799	0.47143	3122.7
50.0000	0.5882	-0.0000	0.58822	0.87264	123.201	9.802	0.47148	3122.7

COMB SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 15145.3 FT./SEC. ENTRBPPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=53.6585 ENTRBPPY=38.7689
GAMMA (AVG.)=1.2009 STAG. ENTHALPY=1.1762E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.6585	0.5926	-0.0751	0.59733	0.81050	162.445	10.729	0.44544	3570.6
53.2927	0.5930	-0.0676	0.59688	0.81671	163.235	10.773	0.44603	3573.1
52.9268	0.5934	-0.0601	0.59647	0.82290	163.941	10.813	0.44657	3574.7
52.5610	0.5938	-0.0526	0.59612	0.82906	164.563	10.847	0.44706	3576.8
52.1951	0.5941	-0.0451	0.59581	0.83523	165.103	10.877	0.44748	3578.1
51.8293	0.5944	-0.0376	0.59555	0.84139	165.562	10.902	0.44783	3579.6
51.4634	0.5946	-0.0301	0.59534	0.84758	165.941	10.923	0.44811	3580.7
51.0975	0.5947	-0.0226	0.59517	0.85379	166.237	10.939	0.44836	3581.7
50.7317	0.5949	-0.0151	0.59505	0.86003	166.452	10.951	0.44849	3582.1
50.3658	0.5949	-0.0076	0.59497	0.86633	166.584	10.959	0.44861	3582.5
50.0000	0.5949	0.0000	0.59494	0.87268	166.631	10.961	0.44864	3582.9

COMB SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 17308.9 FT./SEC. ENTRBPPY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=53.7473 ENTRBPPY=40.3874
GAMMA (AVG.)=1.2151 STAG. ENTHALPY=1.5272E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.7473	0.5913	-0.0767	0.59630	0.80905	211.897	10.511	0.45396	4490.4
53.3726	0.5918	-0.0690	0.59583	0.81540	212.952	10.556	0.45451	4493.6
52.9979	0.5922	-0.0614	0.59541	0.82172	213.894	10.595	0.45500	4496.5
52.6231	0.5926	-0.0537	0.59504	0.82803	214.725	10.630	0.45544	4498.8
52.2484	0.5929	-0.0461	0.59472	0.83433	215.447	10.660	0.45582	4501.0
51.8737	0.5932	-0.0384	0.59444	0.84064	216.060	10.685	0.45614	4502.9
51.4989	0.5934	-0.0308	0.59422	0.84697	216.566	10.706	0.45640	4504.3
51.1242	0.5936	-0.0231	0.59404	0.85333	216.963	10.723	0.45661	4505.4
50.7495	0.5937	-0.0155	0.59391	0.85972	217.250	10.735	0.45676	4506.3
50.3747	0.5938	-0.0077	0.59383	0.86616	217.427	10.742	0.45685	4506.8
50.0000	0.5938	0.0000	0.59380	0.87267	217.490	10.745	0.45688	4507.0

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 19472.5 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=53.4170 ENTRPHY=41.6780
GAMMA (AVG.)=1.1670 STAG. ENTHALPY=1.9251E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.4170	0.5960	-0.0706	0.60015	0.81443	267.775	11.378	0.42249	5103.3
53.0753	0.5964	-0.0635	0.59975	0.82026	269.001	11.424	0.42291	5105.8
52.7336	0.5967	-0.0564	0.59940	0.82606	270.096	11.464	0.42328	5108.0
52.3919	0.5970	-0.0494	0.59908	0.83185	271.061	11.499	0.42360	5110.0
52.0502	0.5973	-0.0424	0.59881	0.83762	271.899	11.530	0.42388	5111.6
51.7085	0.5975	-0.0353	0.59858	0.84340	272.611	11.556	0.42411	5113.1
51.3668	0.5977	-0.0283	0.59840	0.84919	273.197	11.578	0.42430	5114.3
51.0251	0.5979	-0.0213	0.59825	0.85501	273.657	11.595	0.42446	5115.2
50.6834	0.5980	-0.0142	0.59814	0.86085	273.990	11.607	0.42457	5115.9
50.3417	0.5980	-0.0071	0.59807	0.86673	274.194	11.615	0.42464	5116.3
50.0000	0.5980	0.0000	0.59805	0.87267	274.267	11.617	0.42466	5116.5

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 21636.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=53.1498 ENTRPHY=43.1199
GAMMA (AVG.)=1.1437 STAG. ENTHALPY=2.3699E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.1498	0.5997	-0.0655	0.60329	0.81885	330.232	12.216	0.40007	5597.2
52.8348	0.6001	-0.0589	0.60295	0.82424	331.634	12.262	0.40041	5599.5
52.5198	0.6004	-0.0524	0.60264	0.82961	332.885	12.302	0.40071	5601.4
52.2048	0.6006	-0.0458	0.60238	0.83496	333.988	12.338	0.40097	5603.1
51.8899	0.6009	-0.0393	0.60214	0.84030	334.946	12.369	0.40120	5604.5
51.5749	0.6011	-0.0328	0.60195	0.84565	335.759	12.395	0.40139	5605.9
51.2599	0.6012	-0.0263	0.60179	0.85100	336.428	12.417	0.40156	5607.0
50.9449	0.6013	-0.0197	0.60166	0.85637	336.953	12.434	0.40168	5607.7
50.6299	0.6014	-0.0132	0.60157	0.86177	337.332	12.446	0.40177	5608.5
50.3149	0.6015	-0.0066	0.60151	0.86720	337.565	12.454	0.40182	5608.8
50.0000	0.6015	0.0000	0.60149	0.87267	337.648	12.457	0.40185	5608.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 23799.8 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.9099 ENTRPHY=44.6020
GAMMA (AVG.)=1.1321 STAG. ENTHALPY=2.8614E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.9099	0.6031	-0.0609	0.60613	0.82285	399.256	13.103	0.38142	5986.6
52.6189	0.6034	-0.0548	0.60584	0.82784	400.828	13.149	0.38170	5988.5
52.3279	0.6036	-0.0487	0.60558	0.83281	402.232	13.190	0.38196	5990.4
52.0369	0.6038	-0.0426	0.60535	0.83777	403.469	13.225	0.38218	5991.9
51.7459	0.6040	-0.0365	0.60515	0.84272	404.543	13.256	0.38238	5993.3
51.4549	0.6042	-0.0305	0.60498	0.84767	405.455	13.283	0.38254	5994.4
51.1639	0.6043	-0.0244	0.60484	0.85263	406.205	13.304	0.38268	5995.3
50.8729	0.6045	-0.0183	0.60473	0.85760	406.793	13.321	0.38278	5996.1
50.5820	0.6045	-0.0122	0.60465	0.86259	407.218	13.333	0.38286	5996.6
50.2910	0.6046	-0.0061	0.60460	0.86761	407.478	13.341	0.38291	5996.9
50.0000	0.6046	0.0000	0.60458	0.87267	407.571	13.344	0.38292	5996.9

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 25963.4 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.7040 ENTRPHY=46.1268
GAMMA (AVG.)=1.1305 STAG. ENTHALPY=3.3997E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.7040	0.6059	-0.0569	0.60859	0.82630	474.854	13.992	0.36654	6304.7
52.4336	0.6062	-0.0512	0.60834	0.83095	476.597	14.038	0.36679	6306.5
52.1632	0.6064	-0.0455	0.60811	0.83558	478.152	14.078	0.36702	6308.2
51.8928	0.6066	-0.0398	0.60791	0.84019	479.525	14.114	0.36720	6309.5
51.6224	0.6068	-0.0341	0.60774	0.84480	480.715	14.145	0.36738	6310.8
51.3520	0.6069	-0.0285	0.60759	0.84941	481.726	14.171	0.36752	6311.9
51.0816	0.6070	-0.0228	0.60747	0.85403	482.557	14.192	0.36763	6312.8
50.8112	0.6071	-0.0171	0.60737	0.85865	483.209	14.209	0.36773	6313.4
50.5408	0.6072	-0.0114	0.60730	0.86330	483.679	14.221	0.36779	6313.9
50.2704	0.6072	-0.0057	0.60726	0.86797	483.967	14.229	0.36783	6314.2
50.0000	0.6072	0.0000	0.60725	0.87267	484.070	14.232	0.36785	6314.3

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 28127.0 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.5367 ENTR0PY=17.6946
GAMMA (AVG.)=1.1364 STAG. ENTHALPY=3.9849E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.5367	0.6083	-0.0536	0.61060	0.82912	557.032	14.822	0.35531	6592.3
52.2831	0.6085	-0.0482	0.61038	0.83349	558.953	14.857	0.35558	6594.1
52.0294	0.6087	-0.0428	0.61018	0.83784	560.668	14.907	0.35573	6595.7
51.7757	0.6088	-0.0375	0.61000	0.84217	562.182	14.943	0.35591	6597.1
51.5220	0.6090	-0.0321	0.60985	0.84650	563.495	14.973	0.35606	6598.5
51.2684	0.6091	-0.0268	0.60972	0.85083	564.610	14.999	0.35619	6599.4
51.0147	0.6092	-0.0215	0.60961	0.85517	565.527	15.021	0.35629	6600.3
50.7610	0.6093	-0.0161	0.60953	0.85951	566.245	15.038	0.35638	6600.9
50.5073	0.6094	-0.0108	0.60946	0.86387	566.763	15.050	0.35643	6601.5
50.2536	0.6094	-0.0054	0.60943	0.86826	567.081	15.057	0.35647	6601.6
50.0000	0.6094	0.0000	0.60941	0.87267	567.194	15.060	0.35649	6601.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=15500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 30290.6 FT./SEC. ENTR0PY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.4110 ENTR0PY=49.3025
GAMMA (AVG.)=1.1469 STAG. ENTHALPY=4.6169E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.4110	0.6100	-0.0510	0.61212	0.83125	645.794	15.523	0.34755	6892.8
52.1699	0.6102	-0.0459	0.61192	0.83540	647.914	15.568	0.34776	6894.8
51.9288	0.6104	-0.0408	0.61174	0.83954	649.807	15.608	0.34794	6896.5
51.6877	0.6105	-0.0357	0.61158	0.84366	651.477	15.643	0.34810	6898.1
51.4466	0.6107	-0.0306	0.61144	0.84778	652.927	15.674	0.34824	6899.3
51.2055	0.6108	-0.0255	0.61132	0.85190	654.157	15.699	0.34836	6900.5
50.9644	0.6109	-0.0205	0.61122	0.85602	655.169	15.721	0.34846	6901.2
50.7233	0.6110	-0.0154	0.61115	0.86016	655.961	15.737	0.34854	6902.0
50.4822	0.6110	-0.0102	0.61109	0.86431	656.533	15.749	0.34859	6902.7
50.2411	0.6110	-0.0051	0.61106	0.86848	656.883	15.756	0.34862	6903.0
50.0000	0.6110	0.0000	0.61104	0.87267	657.008	15.759	0.34864	6903.1

CBME SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 32454.2 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.3287 ENTRPHY=50.9440
GAMMA (AVG.)=1.1587 STAG. ENTHALPHY=5.2956E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	ρ	RMB	MU	T (K)
52.3287	0.6111	-0.0494	0.61312	0.83265	741.148	16.023	0.34304	7251.7
52.0998	0.6113	-0.0444	0.61293	0.83666	743.498	16.068	0.34324	7254.1
51.8630	0.6115	-0.0395	0.61276	0.84066	745.598	16.107	0.34342	7256.0
51.6301	0.6116	-0.0346	0.61261	0.84464	747.452	16.142	0.34357	7257.5
51.3972	0.6118	-0.0297	0.61246	0.84862	749.060	16.172	0.34371	7259.1
51.1643	0.6119	-0.0247	0.61237	0.85260	750.425	16.198	0.34382	7260.3
50.9315	0.6120	-0.0196	0.61228	0.85659	751.548	16.219	0.34391	7261.4
50.6986	0.6120	-0.0149	0.61221	0.86058	752.427	16.235	0.34399	7262.3
50.4657	0.6121	-0.0099	0.61216	0.86459	753.061	16.246	0.34404	7262.9
50.2329	0.6121	-0.0050	0.61213	0.86862	753.449	16.254	0.34407	7263.2
50.0000	0.6121	0.0000	0.61211	0.87267	753.588	16.257	0.34408	7263.2

CBME SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 37863.3 FT./SEC. ENTRPHY=30.3778

FLOW PROPERTIES

SHOCK ANGLE=52.3387 ENTRPHY=55.1238
GAMMA (AVG.)=1.2341 STAG. ENTHALPHY=7.1974E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
57.3387	0.6110	-0.0496	0.61300	0.83253	1008.471	15.970	0.35510	8748.8
52.1048	0.6112	-0.0446	0.61281	0.83654	1011.673	16.012	0.35534	8752.7
51.8709	0.6114	-0.0397	0.61264	0.84056	1014.535	16.049	0.35556	8756.3
51.6371	0.6115	-0.0347	0.61249	0.84454	1017.062	16.081	0.35576	8759.5
51.4032	0.6116	-0.0298	0.61236	0.84853	1019.257	16.109	0.35593	8762.6
51.1693	0.6117	-0.0248	0.61224	0.85252	1021.120	16.133	0.35607	8764.9
50.9354	0.6118	-0.0199	0.61215	0.85652	1022.653	16.153	0.35620	8766.7
50.7016	0.6119	-0.0149	0.61208	0.86053	1023.854	16.169	0.35629	8768.2
50.4677	0.6119	-0.0100	0.61203	0.86455	1024.721	16.180	0.35636	8769.3
50.2338	0.6120	-0.0050	0.61200	0.86860	1025.251	16.187	0.35640	8770.0
50.0000	0.6120	0.0000	0.61198	0.87266	1025.441	16.189	0.35641	8770.4

CBME SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=155500.0 FEET PRESSURE=2.3030E 00 PSF
DENSITY=2.7550E-06 SLUGS/CU. FT. TEMPERATURE= 270.56 DEG. K
VELOCITY= 43272.3 FT./SEC. ENTRALPY=30.3778

FLOW PROPERTIES

SHEAR ANGLE=52.4896 ENTRALPY=59.1166
GAMMA (AVG.)=1.1907 SYAG. ENTHALPY=9.3917E 08 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHS	MU	T (K)
52.4896	0.6089	-0.0526	0.61117	0.82986	317.033	15.083	0.36027	11198.5
52.2406	0.6091	-0.0473	0.61096	0.83423	321.485	15.125	0.36050	11203.2
51.9916	0.6093	-0.0421	0.61076	0.83849	325.463	15.163	0.36070	11207.5
51.7427	0.6095	-0.0368	0.61059	0.84274	328.975	15.197	0.36088	11211.2
51.4937	0.6096	-0.0316	0.61044	0.84698	332.023	15.227	0.36104	11214.4
51.2448	0.6098	-0.0263	0.61032	0.85123	334.612	15.252	0.36117	11217.1
50.9958	0.6099	-0.0211	0.61022	0.85549	336.740	15.272	0.36128	11219.4
50.7468	0.6099	-0.0158	0.61013	0.85975	338.408	15.288	0.36136	11221.2
50.4979	0.6100	-0.0106	0.61008	0.86403	339.613	15.299	0.36142	11222.5
50.2489	0.6100	-0.0053	0.61004	0.86833	340.350	15.307	0.36146	11223.1
50.0000	0.6100	-0.0000	0.61003	0.87263	340.614	15.309	0.36147	11223.4

TABLE 9

Flow Properties For Cone Angles From 2.5° to 50°
At Various Mach Numbers For An Altitude of 172,500 Feet.

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.4501 ENTROPY=31.1153
GAMMA IAVG.=1.3969 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.4501	0.9982	-0.0305	0.99865	0.02967	2.690	1.973	0.04494	368.5
3.3551	0.9982	-0.0274	0.99861	0.03113	2.770	2.015	0.04513	371.6
3.2600	0.9983	-0.0244	0.99857	0.03250	2.839	2.050	0.04529	374.2
3.1650	0.9983	-0.0214	0.99854	0.03382	2.898	2.081	0.04542	376.4
3.0700	0.9983	-0.0184	0.99852	0.03512	2.950	2.108	0.04553	378.3
2.9750	0.9984	-0.0155	0.99849	0.03642	2.994	2.130	0.04563	379.9
2.8800	0.9984	-0.0125	0.99847	0.03775	3.032	2.150	0.04571	381.2
2.7850	0.9984	-0.0095	0.99846	0.03912	3.063	2.165	0.04578	382.3
2.6900	0.9984	-0.0064	0.99845	0.04054	3.087	2.177	0.04583	383.2
2.5950	0.9984	-0.0032	0.99844	0.04204	3.102	2.185	0.04586	383.7
2.5000	0.9984	-0.0000	0.99844	0.04363	3.108	2.188	0.04587	383.9

CONE SEMI-ANGLE= 2.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.5577 ENTROPY=31.0880
GAMMA IAVG.=1.3975 STAG. ENTHALPY=3.9962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.5577	0.9981	-0.0336	0.99864	0.02839	2.421	1.844	0.04779	354.9
3.4519	0.9981	-0.0302	0.99859	0.03000	2.499	1.886	0.04800	358.0
3.3461	0.9982	-0.0269	0.99854	0.03148	2.564	1.921	0.04818	360.7
3.2404	0.9982	-0.0236	0.99851	0.03291	2.621	1.952	0.04833	362.9
3.1346	0.9983	-0.0204	0.99848	0.03432	2.670	1.978	0.04846	364.9
3.0288	0.9983	-0.0171	0.99845	0.03573	2.713	2.000	0.04857	366.5
2.9231	0.9983	-0.0138	0.99843	0.03717	2.749	2.020	0.04866	367.9
2.8173	0.9984	-0.0105	0.99841	0.03866	2.779	2.035	0.04874	369.0
2.7115	0.9984	-0.0071	0.99839	0.04022	2.802	2.047	0.04879	369.9
2.6058	0.9984	-0.0036	0.99838	0.04187	2.817	2.055	0.04883	370.5
2.5000	0.9984	0.0000	0.99838	0.04363	2.823	2.058	0.04884	370.7

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.3619 ENTRPHY=31.1478
GAMMA (AVG.)=1.3961 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.3619	0.9983	-0.0279	0.99867	0.03076	2.980	2.104	0.04253	382.9
3.2757	0.9983	-0.0250	0.99863	0.03210	3.063	2.146	0.04269	385.9
3.1895	0.9984	-0.0223	0.99860	0.03336	3.135	2.181	0.04283	388.4
3.1033	0.9984	-0.0195	0.99857	0.03459	3.197	2.212	0.04295	390.6
3.0171	0.9984	-0.0168	0.99855	0.03580	3.251	2.239	0.04305	392.4
2.9310	0.9984	-0.0141	0.99853	0.03701	3.297	2.262	0.04314	394.0
2.8448	0.9985	-0.0114	0.99852	0.03824	3.337	2.281	0.04321	395.4
2.7586	0.9985	-0.0086	0.99850	0.03950	3.369	2.297	0.04327	396.4
2.6724	0.9985	-0.0058	0.99849	0.04081	3.393	2.309	0.04331	397.2
2.5862	0.9985	-0.0030	0.99849	0.04218	3.409	2.316	0.04334	397.8
2.5000	0.9985	-0.0000	0.99848	0.04363	3.415	2.319	0.04335	398.0

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.2888 ENTRPHY=31.1852
GAMMA (AVG.)=1.3952 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.2888	0.9984	-0.0257	0.99868	0.03169	3.291	2.235	0.04045	398.0
3.2099	0.9984	-0.0231	0.99865	0.03293	3.377	2.277	0.04060	401.0
3.1310	0.9984	-0.0205	0.99863	0.03410	3.452	2.312	0.04072	403.4
3.0521	0.9984	-0.0180	0.99860	0.03525	3.516	2.343	0.04083	405.6
2.9733	0.9985	-0.0155	0.99858	0.03637	3.573	2.370	0.04092	407.4
2.8944	0.9985	-0.0130	0.99857	0.03751	3.621	2.393	0.04100	409.0
2.8155	0.9985	-0.0105	0.99855	0.03865	3.662	2.413	0.04106	410.3
2.7366	0.9985	-0.0079	0.99854	0.03982	3.696	2.428	0.04112	411.3
2.6578	0.9985	-0.0053	0.99853	0.04104	3.721	2.440	0.04116	412.1
2.5789	0.9985	-0.0027	0.99853	0.04230	3.737	2.448	0.04118	412.6
2.5000	0.9985	-0.0000	0.99853	0.04363	3.743	2.451	0.04119	412.8

CONE SEMI-ANGLE= 2.5
 FREE STREAM CONDITIONS
 MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.0594 ENTRØPY=31.4389
 GAMMA (AVG.)=1.3879 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.0594	0.9986	-0.0186	0.99875	0.03480	5.160	2.874	0.03341	485.3
3.0034	0.9986	-0.0167	0.99873	0.03570	5.264	2.915	0.03350	488.0
2.9475	0.9986	-0.0148	0.99872	0.03658	5.355	2.951	0.03358	490.4
2.8916	0.9986	-0.0130	0.99870	0.03744	5.435	2.983	0.03365	492.4
2.8356	0.9986	-0.0112	0.99869	0.03829	5.504	3.010	0.03371	494.2
2.7797	0.9986	-0.0094	0.99869	0.03914	5.564	3.034	0.03376	495.7
2.7238	0.9986	-0.0075	0.99868	0.03999	5.614	3.054	0.03380	496.9
2.6678	0.9987	-0.0057	0.99867	0.04087	5.654	3.069	0.03383	497.9
2.6119	0.9987	-0.0038	0.99867	0.04176	5.683	3.081	0.03385	498.6
2.5559	0.9987	-0.0019	0.99866	0.04268	5.702	3.088	0.03387	499.1
2.5000	0.9987	-0.0000	0.99866	0.04363	5.709	3.091	0.03387	499.2

CONE SEMI-ANGLE= 2.5
 FREE STREAM CONDITIONS
 MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 3.1524 ENTRØPY=31.2994
 GAMMA (AVG.)=1.3922 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
3.1524	0.9985	-0.0215	0.99872	0.03351	4.160	2.560	0.03638	439.3
3.0871	0.9985	-0.0193	0.99870	0.03455	4.255	2.601	0.03650	442.0
3.0219	0.9985	-0.0172	0.99868	0.03555	4.337	2.637	0.03659	444.4
2.9567	0.9985	-0.0151	0.99866	0.03653	4.409	2.669	0.03668	446.5
2.8914	0.9986	-0.0130	0.99865	0.03749	4.472	2.696	0.03675	448.3
2.8262	0.9986	-0.0108	0.99864	0.03846	4.525	2.719	0.03681	449.8
2.7609	0.9986	-0.0087	0.99863	0.03944	4.571	2.739	0.03686	451.1
2.6957	0.9986	-0.0066	0.99862	0.04044	4.607	2.754	0.03690	452.1
2.6305	0.9986	-0.0044	0.99861	0.04146	4.634	2.766	0.03693	452.8
2.5652	0.9986	-0.0022	0.99861	0.04252	4.652	2.774	0.03695	453.3
2.5000	0.9986	-0.0000	0.99861	0.04363	4.658	2.776	0.03696	453.5

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 6.1236 ENTRPHY=31.4380
GAMMA (AVG.)=1.3879 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.1236	0.9943	-0.0371	0.99499	0.06953	5.153	2.872	0.06709	485.0
6.0112	0.9944	-0.0334	0.99492	0.07135	5.257	2.913	0.06728	487.7
5.8989	0.9944	-0.0297	0.99486	0.07310	5.348	2.949	0.06744	490.1
5.7865	0.9945	-0.0260	0.99482	0.07483	5.428	2.981	0.06758	492.1
5.6741	0.9945	-0.0224	0.99477	0.07653	5.497	3.008	0.06770	493.8
5.5618	0.9946	-0.0187	0.99474	0.07824	5.557	3.032	0.06780	495.3
5.4494	0.9946	-0.0151	0.99471	0.07996	5.607	3.052	0.06788	496.6
5.3371	0.9946	-0.0114	0.99468	0.08171	5.647	3.067	0.06795	497.6
5.2247	0.9946	-0.0076	0.99467	0.08350	5.676	3.079	0.06800	498.3
5.1124	0.9946	-0.0039	0.99466	0.08535	5.695	3.086	0.06803	498.8
5.0000	0.9947	0.0000	0.99465	0.08727	5.702	3.089	0.06804	498.9

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 6.2677 ENTRPHY=31.3247
GAMMA (AVG.)=1.3914 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.2677	0.9940	-0.0416	0.99489	0.06753	4.344	2.622	0.07174	447.8
6.1409	0.9941	-0.0374	0.99481	0.06955	4.440	2.663	0.07196	450.6
6.0142	0.9942	-0.0333	0.99474	0.07150	4.524	2.700	0.07215	453.0
5.8874	0.9943	-0.0292	0.99468	0.07341	4.598	2.731	0.07231	455.0
5.7606	0.9943	-0.0251	0.99463	0.07530	4.662	2.758	0.07245	456.8
5.6339	0.9944	-0.0210	0.99458	0.07719	4.717	2.782	0.07257	458.3
5.5071	0.9944	-0.0169	0.99455	0.07910	4.763	2.801	0.07267	459.6
5.3803	0.9944	-0.0128	0.99452	0.08105	4.800	2.817	0.07275	460.6
5.2535	0.9945	-0.0086	0.99449	0.08305	4.828	2.828	0.07281	461.3
5.1268	0.9945	-0.0043	0.99448	0.08511	4.845	2.836	0.07285	461.8
5.0000	0.9945	0.0000	0.99447	0.08727	4.852	2.839	0.07286	462.0

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 6.0135 ENTRPHY=31.5643
GAMMA AVG.=1.3837 STA.: ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.0135	0.9945	-0.0337	0.99507	0.07111	6.04	3.111	0.06337	525.3
5.9122	0.9946	-0.0303	0.99501	0.07276	6.156	3.153	0.06353	528.0
5.8108	0.9946	-0.0269	0.99497	0.07436	6.257	3.189	0.06367	530.3
5.7095	0.9946	-0.0236	0.99493	0.07593	6.343	3.221	0.06378	532.3
5.6081	0.9947	-0.0203	0.99489	0.07749	6.419	3.248	0.06389	534.1
5.5068	0.9947	-0.0170	0.99486	0.07906	6.483	3.272	0.06397	535.6
5.4054	0.9947	-0.0136	0.99484	0.08063	6.537	3.291	0.06405	536.8
5.3041	0.9948	-0.0103	0.99482	0.08223	6.580	3.307	0.06410	537.8
5.2027	0.9948	-0.0069	0.99480	0.08386	6.612	3.319	0.06414	538.5
5.1014	0.9948	-0.0035	0.99479	0.08553	6.632	3.326	0.06417	538.9
5.0000	0.9948	0.0000	0.99479	0.08727	6.639	3.329	0.06418	539.1

CONE SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 5.9273 ENTRPHY=31.7012
GAMMA AVG.=1.3787 STA.: ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.9273	0.9947	-0.0309	0.99513	0.07236	7.024	3.338	0.06032	568.6
5.8346	0.9947	-0.0276	0.99509	0.07388	7.144	3.380	0.06046	571.3
5.7418	0.9947	-0.0247	0.99505	0.07536	7.251	3.417	0.06058	573.6
5.6491	0.9948	-0.0217	0.99501	0.07682	7.345	3.448	0.06068	575.6
5.5564	0.9948	-0.0186	0.99498	0.07826	7.426	3.476	0.06077	577.4
5.4637	0.9948	-0.0156	0.99496	0.07971	7.496	3.500	0.06085	578.9
5.3709	0.9949	-0.0125	0.99494	0.08116	7.554	3.520	0.06091	580.1
5.2782	0.9949	-0.0094	0.99492	0.08264	7.601	3.535	0.06096	581.1
5.1855	0.9949	-0.0063	0.99491	0.08414	7.635	3.547	0.06100	581.8
5.0927	0.9949	-0.0032	0.99490	0.08568	7.656	3.554	0.06102	582.2
5.0000	0.9949	0.0000	0.99490	0.08727	7.664	3.557	0.06103	582.4

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 5.8582 ENTROPY=31.8463
GAMMA (AVG.)=1.3731 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.8582	0.9948	-0.0287	0.99519	0.07338	8.085	3.554	0.05778	614.9
5.7724	0.9948	-0.0258	0.99515	0.07480	8.216	3.596	0.05790	617.6
5.6866	0.9949	-0.0230	0.99512	0.07618	8.331	3.632	0.05801	619.9
5.6008	0.9949	-0.0201	0.99509	0.07753	8.432	3.664	0.05810	621.9
5.5149	0.9949	-0.0173	0.99506	0.07888	8.520	3.692	0.05818	623.7
5.4291	0.9949	-0.0144	0.99504	0.08023	8.595	3.716	0.05825	625.2
5.3433	0.9950	-0.0116	0.99502	0.08159	8.658	3.736	0.05830	626.4
5.2575	0.9950	-0.0087	0.99501	0.08297	8.708	3.751	0.05835	627.4
5.1716	0.9950	-0.0059	0.99500	0.08436	8.745	3.763	0.05838	628.1
5.0858	0.9950	-0.0030	0.99499	0.08580	8.768	3.770	0.05840	628.6
5.0000	0.9950	0.0000	0.99499	0.08727	8.777	3.773	0.05841	628.7

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 5.8018 ENTROPY=31.9977
GAMMA (AVG.)=1.3672 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.8018	0.9949	-0.0269	0.99524	0.07422	9.231	3.757	0.05563	664.0
5.7216	0.9949	-0.0242	0.99521	0.07555	9.372	3.799	0.05574	666.7
5.6415	0.9949	-0.0215	0.99518	0.07685	9.496	3.836	0.05583	669.1
5.5613	0.9950	-0.0188	0.99515	0.07813	9.605	3.868	0.05592	671.1
5.4811	0.9950	-0.0162	0.99513	0.07940	9.700	3.896	0.05599	672.9
5.4009	0.9950	-0.0135	0.99511	0.08067	9.782	3.920	0.05605	674.4
5.3207	0.9950	-0.0109	0.99509	0.08195	9.849	3.940	0.05610	675.7
5.2405	0.9950	-0.0082	0.99508	0.08324	9.903	3.955	0.05614	676.7
5.1604	0.9951	-0.0055	0.99507	0.08455	9.942	3.967	0.05617	677.4
5.0802	0.9951	-0.0028	0.99506	0.08589	9.967	3.974	0.05618	677.8
5.0000	0.9951	0.0000	0.99506	0.08727	9.976	3.977	0.05619	678.0

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 5.7550 ENTROPY=32.1540
GAMMA (AVG.)=1.3612 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.7550	0.9950	-0.0254	0.99528	0.07493	10.462	3.950	0.05379	715.9
5.6795	0.9950	-0.0228	0.99525	0.07619	10.613	3.991	0.05389	718.6
5.6040	0.9950	-0.0203	0.99523	0.07741	10.747	4.029	0.05397	721.0
5.5285	0.9950	-0.0178	0.99520	0.07862	10.864	4.061	0.05405	723.1
5.4530	0.9951	-0.0153	0.99518	0.07983	10.967	4.089	0.05411	724.9
5.3775	0.9951	-0.0128	0.99516	0.08103	11.054	4.113	0.05417	726.4
5.3020	0.9951	-0.0102	0.99515	0.08224	11.127	4.133	0.05421	727.7
5.2265	0.9951	-0.0077	0.99514	0.08346	11.185	4.148	0.05425	728.7
5.1510	0.9951	-0.0052	0.99513	0.08470	11.227	4.160	0.05427	729.4
5.0755	0.9951	-0.0026	0.99513	0.08597	11.254	4.167	0.05429	729.9
5.0000	0.9951	-0.0000	0.99512	0.08727	11.264	4.170	0.05429	730.1

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 5.6667 ENTROPY=32.5572
GAMMA (AVG.)=1.3464 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6667	0.9951	-0.0225	0.99537	0.07628	13.909	4.386	0.05016	857.1
5.6001	0.9951	-0.0202	0.99534	0.07740	14.089	4.428	0.05024	860.0
5.5334	0.9952	-0.0180	0.99532	0.07849	14.249	4.465	0.05031	862.5
5.4667	0.9952	-0.0158	0.99530	0.07957	14.389	4.498	0.05037	864.7
5.4000	0.9952	-0.0135	0.99529	0.08065	14.512	4.526	0.05043	866.6
5.3334	0.9952	-0.0113	0.99527	0.08172	14.616	4.550	0.05047	868.2
5.2667	0.9952	-0.0091	0.99526	0.08280	14.702	4.570	0.05051	869.5
5.2000	0.9952	-0.0068	0.99525	0.08389	14.771	4.586	0.05054	870.5
5.1333	0.9952	-0.0046	0.99525	0.08500	14.821	4.598	0.05056	871.3
5.0667	0.9952	-0.0023	0.99524	0.08612	14.853	4.605	0.05057	871.8
5.0000	0.9952	0.0000	0.99524	0.08727	14.864	4.607	0.05058	871.9

CBME SEMI-ANGLE= 5.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE = 5.6050 ENTRPHY=32.9682
GAMMA (AVG.)=1.3335 STAG. ENTHALPHY=9.3019E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6050	0.9952	-0.0205	0.99543	0.07724	17.885	4.766	0.04751	1014.2
5.5445	0.9952	-0.0184	0.99541	0.07826	18.098	4.809	0.04758	1017.2
5.4840	0.9953	-0.0164	0.99539	0.07926	18.286	4.846	0.04764	1019.8
5.4235	0.9953	-0.0143	0.99538	0.08025	18.452	4.879	0.04769	1022.1
5.3630	0.9953	-0.0123	0.99536	0.08123	18.596	4.908	0.04773	1024.1
5.3025	0.9953	-0.0103	0.99535	0.08221	18.719	4.932	0.04777	1025.8
5.2420	0.9953	-0.0083	0.99534	0.08320	18.821	4.952	0.04780	1027.2
5.1815	0.9953	-0.0062	0.99533	0.08419	18.902	4.968	0.04782	1028.3
5.1210	0.9953	-0.0042	0.99533	0.08520	18.961	4.980	0.04784	1029.1
5.0605	0.9953	-0.0021	0.99533	0.08622	18.997	4.987	0.04785	1029.6
5.0000	0.9953	-0.0000	0.99532	0.08727	19.011	4.990	0.04786	1029.8

CPNF SIMI-A WLE= 7.5
 FREE STREAM CONDITIONS
 MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.667E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
 VELOCITY= 15137.4 FT./SEC. ENTROPY=31.0178

FLRW PROPERTIES

SHOCK ANGLE= 9.108P ENTROPY=31.4978
 GAMMA (AVG.)=1.3859 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VR	VR	ETA	P	RHO	MU	T (K)
9.1088	0.9874	-0.0530	0.98881	0.10539	5.576	2.989	0.09835	504.2
8.9479	0.9875	-0.0476	0.98867	0.10800	5.684	3.031	0.09862	506.9
8.7870	0.9877	-0.0423	0.98856	0.11052	5.779	3.067	0.09885	509.2
8.6261	0.9878	-0.0371	0.98846	0.11300	5.862	3.099	0.09905	511.2
8.4653	0.9879	-0.0319	0.98837	0.11546	5.934	3.126	0.09922	513.0
8.3044	0.9879	-0.0267	0.98830	0.11792	5.996	3.150	0.09936	514.5
8.1435	0.9880	-0.0215	0.98824	0.12041	6.047	3.169	0.09948	515.7
7.9826	0.9881	-0.0162	0.98819	0.12293	6.089	3.185	0.09958	516.7
7.8218	0.9881	-0.0109	0.98815	0.12550	6.120	3.197	0.09965	517.4
7.6609	0.9881	-0.0055	0.98813	0.12815	6.139	3.204	0.09970	517.9
7.5000	0.9881	0.0000	0.98812	0.13090	6.146	3.207	0.09971	518.0

COND. SKEW-ANGLE= 7.5
 FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2106E-06 PSF
 DENSITY=1.4470E-06 SLUGS/CCU. FT. TEMPERATURE= 486.47 DEG. R
 VELOCITY= 17259.9 FT./SEC. ENTHALPY=31.0178

FLW. PROPERTIES

SHOCK ANGLE= 8.9001 ENTHALPY=31.6987
 GAMMA (AVG.)=1.3788 STAG. ENTHALPY=1.5256E 08 FT. 50./SEC. 50.

LTA	MA	VA	VN	V	THETA	P	RHO	MU	T (K)
8.9001	0.9680	-0.0464	0.98905	0.10841	7.006	3.335	0.9102	567.8	
8.7901	0.9641	-0.0417	0.98894	0.11070	7.127	3.376	0.90126	570.5	
8.6801	0.9602	-0.0371	0.98885	0.11293	7.233	3.413	0.89145	572.8	
8.5701	0.9562	-0.0325	0.98878	0.11515	7.327	3.445	0.88161	574.9	
8.4601	0.9523	-0.0279	0.98871	0.11731	7.402	3.472	0.87175	576.6	
8.3501	0.9484	-0.0234	0.98865	0.11949	7.478	3.496	0.86187	578.1	
8.2401	0.9444	-0.0188	0.98860	0.12169	7.536	3.516	0.85197	579.3	
8.1301	0.9405	-0.0142	0.98857	0.12391	7.582	3.531	0.84204	580.3	
8.0201	0.9365	-0.0095	0.98854	0.12618	7.616	3.543	0.83210	581.0	
7.9101	0.9325	-0.0048	0.98852	0.12850	7.638	3.550	0.82213	581.5	
7.8001	0.9285	0.0000	0.98851	0.13030	7.646	3.553	0.81215	581.6	

COND. SKEW-ANGLE= 7.5
 FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2106E-06 PSF
 DENSITY=1.4470E-06 SLUGS/CCU. FT. TEMPERATURE= 486.47 DEG. R
 VELOCITY= 17259.9 FT./SEC. ENTHALPY=31.0178

FLW. PROPERTIES

SHOCK ANGLE= 8.7509 ENTHALPY=31.9183
 GAMMA (AVG.)=1.3703 STAG. ENTHALPY=1.9231E 08 FT. 50./SEC. 50.

LTA	MA	VA	VN	V	THETA	P	MU	T (K)
8.7509	0.9884	-0.0416	0.98923	0.11062	8.625	3.653	0.88550	637.1
8.6257	0.9844	-0.0374	0.98915	0.11268	8.760	3.695	0.88568	646.8
8.5007	0.9805	-0.0333	0.98908	0.11470	8.880	3.731	0.88584	653.2
8.3756	0.9766	-0.0292	0.98902	0.11668	8.986	3.764	0.88597	655.2
8.2505	0.9726	-0.0251	0.98896	0.11866	9.076	3.792	0.88609	657.0
8.1254	0.9687	-0.0209	0.98892	0.12063	9.154	3.815	0.88619	658.5
8.0003	0.9647	-0.0168	0.98888	0.12262	9.219	3.835	0.88627	659.7
7.8752	0.9608	-0.0127	0.98885	0.12462	9.271	3.851	0.88633	650.7
7.7502	0.9568	-0.0085	0.98882	0.12667	9.309	3.862	0.88638	651.6
7.6251	0.9528	-0.0043	0.98881	0.12875	9.333	3.870	0.88641	651.9
7.5000	0.9488	0.0000	0.98880	0.13099	9.342	3.872	0.88642	652.0

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.6394 ENTROPY=32.1505
GAMMA (AVG.)=1.3613 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.6394	0.9887	-0.0381	0.98938	0.11229	10.433	3.945	0.08115	714.7
8.4478	0.9887	-0.0342	0.98932	0.11419	10.584	3.987	0.08130	717.4
8.4115	0.9886	-0.0304	0.98925	0.11604	10.718	4.024	0.08143	719.8
8.2372	0.9886	-0.0267	0.98920	0.11786	10.836	4.057	0.08155	721.9
8.1319	0.9889	-0.0229	0.98916	0.11963	10.938	4.085	0.08165	723.7
8.0097	0.9889	-0.0191	0.98912	0.12149	11.025	4.109	0.08173	725.3
7.9557	0.9890	-0.0154	0.98908	0.12332	11.098	4.128	0.08180	726.5
7.8415	0.9890	-0.0116	0.98906	0.12516	11.155	4.144	0.08186	727.5
7.7279	0.9890	-0.0078	0.98904	0.12703	11.198	4.156	0.08190	728.3
7.6139	0.9890	-0.0038	0.98903	0.12894	11.224	4.163	0.08192	728.7
7.5000	0.9890	0.0000	0.98902	0.13090	11.234	4.166	0.08193	728.9

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 23787.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.5532 ENTROPY=32.3904
GAMMA (AVG.)=1.3523 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.5532	0.9889	-0.0353	0.98951	0.11361	12.432	4.214	0.07764	797.3
8.4478	0.9889	-0.0317	0.98945	0.11536	12.600	4.256	0.07778	800.1
8.3425	0.9890	-0.0282	0.98939	0.11708	12.749	4.293	0.07789	802.6
8.2372	0.9890	-0.0247	0.98935	0.11879	12.879	4.326	0.07799	804.7
8.1319	0.9891	-0.0212	0.98931	0.12048	12.993	4.354	0.07808	806.5
8.0266	0.9891	-0.0177	0.98928	0.12217	13.091	4.378	0.07815	808.1
7.9213	0.9891	-0.0142	0.98925	0.12387	13.171	4.398	0.07821	809.4
7.8159	0.9892	-0.0107	0.98923	0.12558	13.235	4.414	0.07826	810.4
7.7106	0.9892	-0.0072	0.98921	0.12732	13.282	4.426	0.07830	811.2
7.6053	0.9892	-0.0036	0.98920	0.12909	13.312	4.433	0.07832	811.6
7.5000	0.9892	0.0000	0.98920	0.13090	13.322	4.435	0.07833	811.8

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 25049.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.4865 ENTRPHY=32.0447
GAMMA (AVG.)=1.3338 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	E (BT)
8.4289	0.9892	-0.0313	0.98969	0.11553	16.999	4.690	0.07236	979.6
8.3360	0.9892	-0.0281	0.98964	0.11709	17.204	4.732	0.07246	982.6
8.2431	0.9893	-0.0250	0.98960	0.11862	17.386	4.770	0.07256	985.2
8.1502	0.9893	-0.0219	0.98957	0.12014	17.547	4.803	0.07264	987.5
8.0573	0.9894	-0.0188	0.98954	0.12164	17.686	4.831	0.07271	989.4
7.9644	0.9894	-0.0157	0.98951	0.12315	17.805	4.855	0.07277	991.1
7.8715	0.9894	-0.0126	0.98949	0.12466	17.903	4.875	0.07282	992.5
7.7787	0.9894	-0.0095	0.98947	0.12619	17.981	4.891	0.07286	993.6
7.6858	0.9894	-0.0063	0.98946	0.12773	18.038	4.903	0.07289	994.4
7.5929	0.9894	-0.0032	0.98945	0.12930	18.074	4.910	0.07290	994.9
7.5000	0.9894	-0.0000	0.98945	0.13090	18.087	4.913	0.07291	995.0

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS
MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.4289 ENTRPHY=32.0810
GAMMA (AVG.)=1.3361 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.4289	0.9892	-0.0313	0.98969	0.11553	16.999	4.690	0.07236	979.6
8.3360	0.9892	-0.0281	0.98964	0.11709	17.204	4.732	0.07246	982.6
8.2431	0.9893	-0.0250	0.98960	0.11862	17.386	4.770	0.07256	985.2
8.1502	0.9893	-0.0219	0.98957	0.12014	17.547	4.803	0.07264	987.5
8.0573	0.9894	-0.0188	0.98954	0.12164	17.686	4.831	0.07271	989.4
7.9644	0.9894	-0.0157	0.98951	0.12315	17.805	4.855	0.07277	991.1
7.8715	0.9894	-0.0126	0.98949	0.12466	17.903	4.875	0.07282	992.5
7.7787	0.9894	-0.0095	0.98947	0.12619	17.981	4.891	0.07286	993.6
7.6858	0.9894	-0.0063	0.98946	0.12773	18.038	4.903	0.07289	994.4
7.5929	0.9894	-0.0032	0.98945	0.12930	18.074	4.910	0.07290	994.9
7.5000	0.9894	-0.0000	0.98945	0.13090	18.087	4.913	0.07291	995.0

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRALPY=31.0176

FLOW PROPERTIES

SHOCK ANGLE= 8.3827 ENTRALPY=33.1274
GAMMA (AVG.)=1.3292 STAG. ENTHALPY=4.6126E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
4.1677	0.9893	-0.0297	0.98976	0.11629	19.568	4.201	0.07032	1070.1
4.2945	0.9894	-0.0268	0.98972	0.11273	19.793	4.943	0.07042	1082.2
4.2502	0.9894	-0.0238	0.98968	0.11920	19.944	4.901	0.07051	1084.9
4.1179	0.9894	-0.0208	0.98965	0.12064	20.170	5.014	0.07058	1087.3
4.0296	0.9895	-0.0179	0.98962	0.12208	20.323	5.043	0.07065	1089.3
7.7414	0.9895	-0.0149	0.98960	0.12352	20.454	5.067	0.07070	1091.0
7.8531	0.9895	-0.0120	0.98958	0.12496	20.562	5.087	0.07075	1092.5
7.7648	0.9895	-0.0090	0.98956	0.12641	20.648	5.103	0.07078	1093.6
7.6765	0.9895	-0.0060	0.98955	0.12788	20.710	5.115	0.07081	1094.4
7.5883	0.9895	-0.0030	0.98954	0.12938	20.749	5.122	0.07083	1094.9
7.5000	0.9895	0.0000	0.98954	0.13090	20.763	5.124	0.07083	1095.1

CONE SEMI-ANGLE= 7.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRALPY=31.0176

FLOW PROPERTIES

SHOCK ANGLE= 8.3439 ENTRALPY=33.3726
GAMMA (AVG.)=1.3232 STAG. ENTHALPY=5.2901E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.3439	0.9894	-0.0285	0.98982	0.11686	22.327	5.096	0.06859	1184.1
8.2595	0.9895	-0.0256	0.98978	0.11828	22.574	5.139	0.06868	1187.3
8.1751	0.9895	-0.0228	0.98975	0.11968	22.793	5.176	0.06876	1190.1
8.0908	0.9895	-0.0199	0.98972	0.12107	22.986	5.209	0.06883	1192.6
8.0064	0.9895	-0.0171	0.98969	0.12245	23.154	5.238	0.06889	1194.7
7.9220	0.9896	-0.0143	0.98967	0.12383	23.297	5.263	0.06894	1196.5
7.8376	0.9896	-0.0115	0.98965	0.12521	23.415	5.283	0.06898	1198.0
7.7532	0.9896	-0.0086	0.98964	0.12661	23.509	5.299	0.06902	1199.1
7.6688	0.9896	-0.0058	0.98963	0.12801	23.577	5.310	0.06904	1200.0
7.5844	0.9896	-0.0029	0.98962	0.12944	23.620	5.318	0.06906	1200.5
7.5000	0.9896	-0.0000	0.98962	0.13090	23.635	5.320	0.06906	1200.7

CONE SEMI-ANGLE= 7.5
 FREE STREAM CONDITIONS

MACH NØ.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.2700 ENTRØPY=33.9752
 GAMMA (AVG.)=1.3116 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
8.2700	0.9896	-0.0260	0.98994	0.11803	30.058	5.524	0.06522	1470.8
8.1930	0.9896	-0.0234	0.98991	0.11933	30.363	5.566	0.06530	1474.3
8.1160	0.9897	-0.0208	0.98988	0.12062	30.634	5.604	0.06537	1477.5
8.0390	0.9897	-0.0182	0.98986	0.12189	30.873	5.637	0.06543	1480.2
7.9620	0.9897	-0.0156	0.98983	0.12316	31.081	5.666	0.06548	1482.5
7.8850	0.9897	-0.0131	0.98982	0.12442	31.257	5.691	0.06552	1484.5
7.8080	0.9897	-0.0105	0.98980	0.12569	31.403	5.711	0.06556	1486.2
7.7310	0.9898	-0.0079	0.98979	0.12697	31.519	5.727	0.06559	1487.5
7.6540	0.9898	-0.0053	0.98978	0.12826	31.603	5.739	0.06561	1488.4
7.5770	0.9898	-0.0026	0.98977	0.12957	31.655	5.746	0.06562	1489.0
7.5000	0.9898	-0.0000	0.98977	0.13090	31.674	5.748	0.06563	1489.2

CONE SEMI-ANGLE= 7.5
 FREE STREAM CONDITIONS

MACH NØ.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE= 8.2180 ENTRØPY=34.5564
 GAMMA (AVG.)=1.3038 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
8.2180	0.9897	-0.0243	0.99003	0.11886	38.980	5.877	0.06281	1792.7
8.1462	0.9898	-0.0219	0.99000	0.12008	39.350	5.919	0.06288	1796.7
8.0744	0.9898	-0.0194	0.98998	0.12128	39.679	5.957	0.06294	1800.1
8.0026	0.9898	-0.0170	0.98995	0.12247	39.949	5.991	0.06299	1803.2
7.9308	0.9898	-0.0146	0.98993	0.12366	40.220	6.020	0.06304	1805.8
7.8590	0.9898	-0.0122	0.98992	0.12485	40.435	6.044	0.06308	1808.1
7.7872	0.9899	-0.0098	0.98990	0.12603	40.612	6.065	0.06311	1809.9
7.7154	0.9899	-0.0074	0.98989	0.12723	40.752	6.081	0.06313	1811.4
7.6436	0.9899	-0.0049	0.98989	0.12844	40.854	6.092	0.06315	1812.4
7.5718	0.9899	-0.0025	0.98988	0.12966	40.917	6.099	0.06316	1813.1
7.5000	0.9899	-0.0000	0.98988	0.13090	40.940	6.102	0.06317	1813.3

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 8649.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=12.9803
GAMMA TANG.=1.3942 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.
ENTROPY=31.2250

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
12.9805	0.9744	-0.0953	0.97908	0.12911	3.604	2.358	0.15818	413.0
12.6824	0.9749	-0.0356	0.97865	0.13378	3.692	2.400	0.15979	415.9
12.3844	0.9753	-0.0761	0.97828	0.13824	3.770	2.436	0.15931	418.3
12.0863	0.9757	-0.0608	0.97797	0.14259	3.837	2.467	0.15976	420.4
11.7883	0.9760	-0.0575	0.97769	0.14690	3.896	2.494	0.16014	422.2
11.4902	0.9763	-0.0482	0.97746	0.15122	3.946	2.517	0.16047	423.8
11.1922	0.9765	-0.0388	0.97726	0.15559	3.989	2.536	0.16074	425.0
10.8941	0.9767	-0.0294	0.97711	0.16007	4.023	2.552	0.16096	426.1
10.5961	0.9768	-0.0198	0.97699	0.16468	4.049	2.564	0.16112	426.9
10.2980	0.9769	-0.0100	0.97691	0.16949	4.066	2.571	0.16122	427.4
10.0000	0.9769	0.0000	0.97688	0.17453	4.072	2.574	0.16126	427.5

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 10812.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=12.2863
GAMMA TANG.=1.3881 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.
ENTROPY=31.5361

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
12.2863	0.9771	-0.0743	0.97991	0.13853	5.126	2.864	0.13640	483.8
12.0577	0.9774	-0.0668	0.97965	0.14221	5.229	2.905	0.13681	486.5
11.8290	0.9776	-0.0594	0.97942	0.14577	5.320	2.941	0.13716	488.8
11.6004	0.9778	-0.0521	0.97922	0.14926	5.399	2.973	0.13747	490.8
11.3718	0.9780	-0.0448	0.97905	0.15272	5.469	3.000	0.13773	492.6
11.1431	0.9782	-0.0375	0.97891	0.15619	5.528	3.024	0.13795	494.1
10.9145	0.9783	-0.0302	0.97878	0.15968	5.578	3.044	0.13813	495.3
10.6859	0.9784	-0.0228	0.97869	0.16324	5.618	3.059	0.13828	496.3
10.4573	0.9785	-0.0153	0.97861	0.16688	5.647	3.071	0.13839	497.0
10.2286	0.9785	-0.0077	0.97857	0.17064	5.666	3.078	0.13846	497.5
10.0000	0.9785	0.0000	0.97855	0.17453	5.673	3.081	0.13848	497.7

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.8843 ENTROPY=31.6954
GAMMA (AVG.)=1.3789 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.8843	0.9786	-0.0619	0.98051	0.14429	6.982	3.329	0.12248	566.8
11.6959	0.9788	-0.0556	0.98033	0.14737	7.102	3.371	0.12278	569.4
11.5075	0.9789	-0.0495	0.98017	0.15037	7.209	3.407	0.12304	571.8
11.3190	0.9791	-0.0433	0.98003	0.15332	7.302	3.439	0.12327	573.8
11.1306	0.9792	-0.0372	0.97991	0.15625	7.383	3.467	0.12346	575.5
10.9422	0.9793	-0.0311	0.97981	0.15918	7.453	3.491	0.12363	577.0
10.7537	0.9794	-0.0250	0.97972	0.16214	7.511	3.510	0.12376	578.3
10.5653	0.9795	-0.0189	0.97966	0.16513	7.557	3.526	0.12387	579.2
10.3769	0.9795	-0.0127	0.97961	0.16818	7.591	3.538	0.12395	580.0
10.1884	0.9796	-0.0064	0.97957	0.17131	7.613	3.545	0.12400	580.4
10.0000	0.9795	0.0000	0.97956	0.17453	7.620	3.548	0.12402	580.6

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.6278 ENTROPY=31.9902
GAMMA (AVG.)=1.3675 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.6278	0.9795	-0.0538	0.98095	0.14809	9.173	3.748	0.11286	661.5
11.4650	0.9796	-0.0484	0.98081	0.15078	9.313	3.789	0.11310	664.2
11.3022	0.9797	-0.0430	0.98069	0.15340	9.437	3.826	0.11330	666.6
11.1395	0.9799	-0.0377	0.98058	0.15600	9.545	3.858	0.11348	668.6
10.9767	0.9800	-0.0324	0.98049	0.15857	9.640	3.886	0.11363	670.4
10.8139	0.9800	-0.0270	0.98041	0.16115	9.721	3.910	0.11376	671.9
10.6511	0.9801	-0.0217	0.98035	0.16374	9.788	3.930	0.11387	673.2
10.4883	0.9802	-0.0164	0.98030	0.16636	9.842	3.946	0.11395	674.2
10.3256	0.9802	-0.0110	0.98026	0.16902	9.881	3.957	0.11402	674.9
10.1628	0.9802	-0.0055	0.98023	0.17174	9.906	3.964	0.11406	675.3
10.0000	0.9802	0.0000	0.98022	0.17453	9.915	3.967	0.11407	675.5

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.4515 ENTROPY=32.3044
GAMMA AVG.=1.3555 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	IKI
11.4515	0.9801	-0.0482	0.98127	0.15075	11.699	4.121	0.10582	767.3	
11.3064	0.9802	-0.0433	0.98116	0.15317	11.861	4.163	0.10601	770.0	
11.1617	0.9803	-0.0385	0.98106	0.15553	12.004	4.200	0.10618	772.5	
11.0161	0.9804	-0.0337	0.98098	0.15787	12.131	4.233	0.10633	774.6	
10.8709	0.9805	-0.0290	0.98090	0.16019	12.240	4.261	0.10645	776.4	
10.7258	0.9805	-0.0242	0.98084	0.16252	12.334	4.285	0.10656	778.0	
10.5806	0.9806	-0.0194	0.98079	0.16485	12.412	4.309	0.10665	779.2	
10.4355	0.9806	-0.0146	0.98075	0.16721	12.473	4.321	0.10672	780.3	
10.2903	0.9807	-0.0098	0.98072	0.16960	12.519	4.332	0.10677	781.0	
10.1452	0.9807	-0.0049	0.98070	0.17204	12.547	4.339	0.10680	781.5	
10.0000	0.9807	0.0000	0.98069	0.17453	12.557	4.342	0.10681	781.6	

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.3234 ENTROPY=32.6285
GAMMA AVG.=1.3440 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T	IKI
11.3234	0.9805	-0.0441	0.98152	0.15272	14.562	4.455	0.10045	883.4	
11.1911	0.9806	-0.0396	0.98143	0.15493	14.748	4.498	0.10062	886.2	
11.0587	0.9807	-0.0352	0.98135	0.15710	14.913	4.535	0.10076	888.7	
10.9264	0.9808	-0.0309	0.98127	0.15925	15.057	4.568	0.10089	891.0	
10.7940	0.9809	-0.0265	0.98121	0.16139	15.183	4.596	0.10099	892.9	
10.6617	0.9809	-0.0221	0.98116	0.16352	15.291	4.620	0.10109	894.5	
10.5294	0.9810	-0.0178	0.98111	0.16567	15.380	4.640	0.10116	895.8	
10.3970	0.9810	-0.0134	0.98108	0.16783	15.451	4.656	0.10122	896.8	
10.2647	0.9810	-0.0090	0.98105	0.17002	15.502	4.668	0.10126	897.6	
10.1323	0.9810	-0.0045	0.98104	0.17225	15.535	4.675	0.10129	898.1	
10.0000	0.9810	0.0000	0.98103	0.17453	15.546	4.678	0.10130	898.3	

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270-27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=11.2262 ENTRØPY=32.9562
GAMMA (AVG.)=1.3338 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.2262	0.9809	-0.0409	0.98172	0.15423	17.762	4.756	0.09624	1009.4
11.1036	0.9809	-0.0368	0.98164	0.15628	17.974	4.798	0.09638	1012.4
10.9810	0.9810	-0.0327	0.98157	0.15831	18.161	4.836	0.09651	1015.0
10.8584	0.9811	-0.0287	0.98150	0.16031	18.326	4.869	0.09662	1017.3
10.7357	0.9811	-0.0246	0.98145	0.16231	18.470	4.897	0.09672	1019.3
10.6131	0.9812	-0.0205	0.98140	0.16430	18.592	4.922	0.09680	1021.0
10.4905	0.9812	-0.0165	0.98137	0.16629	18.694	4.942	0.09686	1022.4
10.3679	0.9813	-0.0124	0.98134	0.16831	18.774	4.958	0.09691	1023.5
10.2452	0.9813	-0.0083	0.98131	0.17035	18.833	4.969	0.09695	1024.3
10.1226	0.9813	-0.0042	0.98130	0.17242	18.869	4.976	0.09698	1024.8
10.0000	0.9813	0.0000	0.98129	0.17453	18.882	4.979	0.09698	1025.0

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270-27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=11.1502 ENTRØPY=33.2834
GAMMA (AVG.)=1.3252 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.1502	0.9811	-0.0385	0.98188	0.15542	21.299	5.027	0.09286	1145.2
11.0352	0.9812	-0.0346	0.98180	0.15735	21.538	5.069	0.09299	1148.3
10.9202	0.9813	-0.0308	0.98174	0.15926	21.750	5.107	0.09310	1151.1
10.8052	0.9813	-0.0269	0.98169	0.16115	21.937	5.140	0.09320	1153.5
10.6901	0.9814	-0.0231	0.98164	0.16303	22.099	5.169	0.09329	1155.6
10.5751	0.9814	-0.0193	0.98160	0.16490	22.238	5.193	0.09336	1157.4
10.4601	0.9814	-0.0155	0.98156	0.16679	22.352	5.213	0.09342	1158.9
10.3451	0.9815	-0.0117	0.98154	0.16868	22.443	5.229	0.09347	1160.0
10.2300	0.9815	-0.0078	0.98152	0.17060	22.509	5.241	0.09350	1160.8
10.1150	0.9815	-0.0039	0.98151	0.17255	22.550	5.248	0.09352	1161.4
10.0000	0.9815	0.0000	0.98150	0.17453	22.565	5.251	0.09353	1161.5

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.0893 ENTRØPY=33.6075

GAMMA (AVG.)=1.3181 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0893	0.9813	-0.0365	0.98201	0.15638	25.172	5.271	0.09011	1290.7
10.9804	0.9814	-0.0328	0.98194	0.15822	25.441	5.314	0.09022	1294.1
10.8715	0.9815	-0.0292	0.98188	0.16003	25.680	5.351	0.09033	1297.0
10.7625	0.9815	-0.0255	0.98183	0.16182	25.890	5.384	0.09042	1299.5
10.6536	0.9815	-0.0219	0.98179	0.16361	26.072	5.413	0.09049	1301.7
10.5447	0.9816	-0.0183	0.98175	0.16539	26.228	5.438	0.09056	1303.6
10.4357	0.9816	-0.0147	0.98172	0.16718	26.356	5.458	0.09061	1305.1
10.3268	0.9816	-0.0110	0.98170	0.16898	26.458	5.474	0.09066	1306.4
10.2179	0.9817	-0.0074	0.98168	0.17081	26.533	5.486	0.09069	1307.2
10.1089	0.9817	-0.0037	0.98167	0.17265	26.579	5.493	0.09071	1307.8
10.0000	0.9817	-0.0000	0.98167	0.17453	26.595	5.495	0.09071	1308.0

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=11.0397 ENTRØPY=33.9268

GAMMA (AVG.)=1.3124 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0397	0.9815	-0.0349	0.98211	0.15717	29.383	5.491	0.08783	1446.1
10.9357	0.9816	-0.0314	0.98205	0.15892	29.683	5.534	0.08794	1449.6
10.8317	0.9816	-0.0279	0.98200	0.16066	29.950	5.572	0.08803	1452.7
10.7278	0.9817	-0.0244	0.98196	0.16238	30.185	5.605	0.08812	1455.4
10.6238	0.9817	-0.0209	0.98192	0.16409	30.389	5.634	0.08819	1457.8
10.5198	0.9817	-0.0175	0.98188	0.16579	30.562	5.659	0.08825	1459.7
10.4159	0.9818	-0.0140	0.98186	0.16751	30.706	5.679	0.08830	1461.4
10.3119	0.9818	-0.0106	0.98183	0.16923	30.820	5.695	0.08834	1462.6
10.2079	0.9818	-0.0071	0.98182	0.17097	30.903	5.707	0.08837	1463.6
10.1040	0.9818	-0.0035	0.98181	0.17274	30.954	5.714	0.08838	1464.2
10.0000	0.9818	0.0000	0.98180	0.17453	30.973	5.717	0.08839	1464.4

CBNE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=10.9985 ENTROPY=34.2400
GAMMA (AVG.)=1.3077 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9985	0.9816	-0.0335	0.98220	0.15782	33.931	5.691	0.08592	1611.4
10.8987	0.9817	-0.0302	0.98215	0.15951	34.264	5.734	0.08602	1615.2
10.7988	0.9817	-0.0268	0.98210	0.16118	34.561	5.772	0.08611	1618.4
10.6990	0.9818	-0.0235	0.98206	0.16284	34.822	5.805	0.08619	1621.3
10.5991	0.9818	-0.0201	0.98202	0.16448	35.049	5.834	0.08626	1623.6
10.4993	0.9818	-0.0168	0.98199	0.16613	35.242	5.858	0.08631	1625.9
10.3994	0.9819	-0.0135	0.98197	0.16778	35.402	5.879	0.08636	1627.6
10.2995	0.9819	-0.0101	0.98195	0.16944	35.528	5.895	0.08640	1629.0
10.1997	0.9819	-0.0068	0.98193	0.17111	35.620	5.906	0.08643	1630.0
10.0998	0.9819	-0.0034	0.98192	0.17281	35.676	5.914	0.08644	1630.6
10.0000	0.9819	0.0000	0.98192	0.17453	35.697	5.916	0.08645	1630.8

CBNE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=10.9641 ENTROPY=34.5466
GAMMA (AVG.)=1.3039 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.9641	0.9817	-0.0324	0.98228	0.15837	38.819	5.871	0.08431	1786.0
10.8677	0.9818	-0.0291	0.98223	0.16001	39.184	5.914	0.08441	1790.8
10.7713	0.9818	-0.0259	0.98218	0.16162	39.512	5.952	0.08449	1794.3
10.6748	0.9819	-0.0227	0.98214	0.16322	39.801	5.985	0.08457	1797.3
10.5784	0.9819	-0.0195	0.98211	0.16482	40.052	6.014	0.08463	1800.0
10.4820	0.9819	-0.0162	0.98208	0.16641	40.266	6.039	0.08468	1802.2
10.3856	0.9820	-0.0130	0.98206	0.16800	40.443	6.059	0.08473	1804.0
10.2892	0.9820	-0.0098	0.98204	0.16961	40.582	6.075	0.08476	1805.5
10.1928	0.9820	-0.0066	0.98202	0.17123	40.684	6.087	0.08479	1806.5
10.0964	0.9820	-0.0033	0.98202	0.17287	40.746	6.094	0.08480	1807.2
10.0000	0.9820	0.0000	0.98201	0.17453	40.769	6.096	0.08481	1807.4

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLØW PROPERTIES

SHØCK ANGLE=10.8989 ENTRØPY=35.2810
GAMMA (AVG.)=1.2973 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
10.8989	0.9820	-0.0303	0.98243	0.15942	52.501	6.250	0.08123	2270.4
10.8090	0.9820	-0.0272	0.98238	0.16095	52.968	6.293	0.08132	2275.0
10.7191	0.9820	-0.0242	0.98234	0.16246	53.383	6.331	0.08139	2279.1
10.6292	0.9821	-0.0212	0.98231	0.16396	53.748	6.364	0.08146	2282.7
10.5394	0.9821	-0.0182	0.98228	0.16545	54.066	6.393	0.08152	2285.7
10.4495	0.9821	-0.0152	0.98225	0.16694	54.336	6.418	0.08156	2288.4
10.3596	0.9822	-0.0122	0.98223	0.16843	54.559	6.438	0.08160	2290.5
10.2697	0.9822	-0.0091	0.98222	0.16993	54.735	6.454	0.08163	2292.2
10.1798	0.9822	-0.0061	0.98220	0.17145	54.864	6.466	0.08166	2293.4
10.0899	0.9822	-0.0031	0.98220	0.17298	54.943	6.473	0.08167	2294.2
10.0000	0.9822	0.0000	0.98219	0.17453	54.971	6.475	0.08168	2294.5

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLØW PROPERTIES

SHØCK ANGLE=10.7697 ENTRØPY=36.0873
GAMMA (AVG.)=1.1253 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
10.7697	0.9824	-0.0261	0.98273	0.16144	68.306	7.170	0.07046	2522.7
10.6927	0.9824	-0.0234	0.98270	0.16278	68.832	7.218	0.07049	2524.7
10.6157	0.9824	-0.0208	0.98267	0.16410	69.299	7.261	0.07052	2526.3
10.5388	0.9825	-0.0182	0.98264	0.16540	69.710	7.300	0.07054	2527.6
10.4618	0.9825	-0.0156	0.98262	0.16670	70.066	7.332	0.07057	2529.1
10.3848	0.9825	-0.0130	0.98260	0.16799	70.368	7.360	0.07059	2530.2
10.3079	0.9825	-0.0104	0.98259	0.16928	70.616	7.382	0.07060	2531.2
10.2309	0.9825	-0.0078	0.98257	0.17058	70.812	7.401	0.07061	2531.7
10.1539	0.9826	-0.0052	0.98256	0.17188	70.954	7.414	0.07062	2532.1
10.0770	0.9826	-0.0026	0.98256	0.17320	71.041	7.422	0.07063	2532.6
10.0000	0.9826	-0.0000	0.98256	0.17453	71.073	7.425	0.07063	2532.7

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=112500.0 FEET PRESSURE=1.7100E 30 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 6487.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.6054 ENTROPY=31.1821
GAMMA (AVG.)=1.3953 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.6054	0.9583	-0.1285	0.96885	0.15654	3.266	2.224	0.21009	396.8
16.1944	0.9591	-0.1154	0.96606	0.16287	3.351	2.266	0.21103	399.7
15.7544	0.9599	-0.1027	0.96539	0.16889	3.425	2.302	0.21183	402.2
15.3138	0.9606	-0.0901	0.96481	0.17476	3.490	2.333	0.21252	404.3
14.8733	0.9612	-0.0776	0.96432	0.18057	3.546	2.359	0.21311	406.2
14.4327	0.9617	-0.0651	0.96389	0.18640	3.594	2.383	0.21361	407.7
14.1422	0.9621	-0.0525	0.96353	0.19232	3.635	2.402	0.21403	409.0
13.7316	0.9624	-0.0397	0.96324	0.19839	3.668	2.418	0.21437	410.1
13.3211	0.9627	-0.0268	0.96302	0.20467	3.693	2.430	0.21463	410.9
12.7105	0.9628	-0.0136	0.96288	0.21124	3.710	2.437	0.21479	411.4
12.0200	0.9628	0.0000	0.96283	0.21817	3.716	2.440	0.21485	411.6

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.= 9.05 ALTITUDE=112500.0 FEET PRESSURE=1.7100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 8649.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=15.395P ENTROPY=31.4312
GAMMA (AVG.)=1.3881 STAG. ENTHALPY=4.033E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.3958	0.9641	-0.0929	0.96857	0.17265	5.105	2.858	0.17266	482.8
15.1062	0.9645	-0.0835	0.96815	0.17729	5.209	2.899	0.17321	485.5
14.8167	0.9649	-0.0743	0.96779	0.18178	5.294	2.926	0.17368	487.9
14.5271	0.9653	-0.0651	0.96748	0.18619	5.378	2.967	0.17409	489.9
14.2375	0.9656	-0.0560	0.96721	0.19057	5.447	2.995	0.17444	491.7
13.9479	0.9658	-0.0469	0.96698	0.19495	5.507	3.018	0.17474	493.2
13.6583	0.9661	-0.0377	0.96679	0.19937	5.556	3.038	0.17499	494.4
13.3687	0.9662	-0.0285	0.96663	0.20387	5.596	3.053	0.17519	495.4
13.0792	0.9663	-0.0191	0.96652	0.20848	5.626	3.065	0.17533	496.1
12.7896	0.9664	-0.0097	0.96645	0.21323	5.645	3.072	0.17542	496.6
12.5000	0.9664	0.0000	0.96642	0.21817	5.652	3.075	0.17546	496.7

CBNE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRAPPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=14.7895 ENTRAPPY=31.7619
GAMMA (AVG.)=1.3764 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.7895	0.9669	-0.0744	0.96972	0.10134	7.464	3.431	0.15143	587.9
14.5606	0.9671	-0.0669	0.96945	0.18508	7.589	3.473	0.15160	590.6
14.3316	0.9674	-0.0595	0.96922	0.18873	7.699	3.510	0.15212	592.9
14.1027	0.9676	-0.0521	0.96901	0.19233	7.796	3.542	0.15240	594.9
13.8737	0.9678	-0.0448	0.96884	0.19590	7.880	3.569	0.15264	596.7
13.6448	0.9680	-0.0375	0.96869	0.19948	7.952	3.593	0.15285	598.2
13.4158	0.9681	-0.0301	0.96856	0.20308	8.012	3.613	0.15302	599.4
13.1869	0.9682	-0.0227	0.96846	0.20672	8.060	3.628	0.15315	600.4
12.9579	0.9683	-0.0152	0.96839	0.21044	8.096	3.640	0.15325	601.1
12.7289	0.9683	-0.0077	0.96834	0.21424	8.118	3.647	0.15331	601.6
12.5000	0.9683	0.0000	0.96833	0.21817	8.126	3.650	0.15334	601.7

CBNE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRAPPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=14.4365 ENTRAPPY=32.1393
GAMMA (AVG.)=1.3618 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
14.4365	0.9684	-0.0634	0.97049	0.18659	10.344	3.932	0.13783	711.0
14.2429	0.9686	-0.0570	0.97030	0.18979	10.494	3.974	0.13811	713.7
14.0492	0.9688	-0.0507	0.97013	0.19293	10.627	4.011	0.13835	716.1
13.8556	0.9690	-0.0444	0.96998	0.19603	10.744	4.043	0.13856	718.2
13.6619	0.9691	-0.0381	0.96985	0.19911	10.845	4.071	0.13874	720.0
13.4683	0.9692	-0.0319	0.96976	0.20219	10.932	4.095	0.13890	721.5
13.2746	0.9693	-0.0256	0.96965	0.20529	11.004	4.115	0.13902	722.8
13.0809	0.9694	-0.0193	0.96957	0.20842	11.062	4.131	0.13913	723.7
12.8873	0.9694	-0.0129	0.96952	0.21160	11.104	4.142	0.13920	724.5
12.6936	0.9695	-0.0065	0.96949	0.21484	11.130	4.150	0.13925	724.9
12.5000	0.9695	0.0000	0.96947	0.21817	11.140	4.152	0.13926	725.1

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=14.2079 ENTRØPY=32.5303
GAMMA (AVG.)=1.3470 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.2079	0.9694	-0.0562	0.97104	0.19007	13.745	4.368	0.12839	850.6
14.0371	0.9696	-0.0505	0.97088	0.19292	13.924	4.410	0.12861	853.4
13.8663	0.9697	-0.0449	0.97075	0.19572	14.083	4.447	0.12881	855.9
13.6955	0.9698	-0.0393	0.97063	0.19848	14.223	4.480	0.12898	858.1
13.5247	0.9699	-0.0338	0.97053	0.20123	14.344	4.508	0.12912	860.0
13.3540	0.9700	-0.0282	0.97044	0.20398	14.447	4.532	0.12925	861.6
13.1832	0.9701	-0.0227	0.97037	0.20674	14.533	4.552	0.12935	862.9
13.0124	0.9702	-0.0171	0.97031	0.20953	14.601	4.568	0.12943	863.9
12.8416	0.9702	-0.0114	0.97027	0.21235	14.651	4.580	0.12949	864.7
12.6708	0.9702	-0.0057	0.97024	0.21523	14.682	4.587	0.12953	865.2
12.5000	0.9702	0.0000	0.97023	0.21817	14.694	4.589	0.12954	865.3

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=14.0484 ENTRØPY=32.9473
GAMMA (AVG.)=1.3341 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.0484	0.9701	-0.0511	0.97143	0.19254	17.670	4.748	0.12148	1005.8
13.8935	0.9702	-0.0460	0.97131	0.19514	17.881	4.791	0.12167	1008.8
13.7387	0.9703	-0.0409	0.97119	0.19769	18.068	4.828	0.12184	1011.5
13.5838	0.9704	-0.0358	0.97110	0.20022	18.232	4.861	0.12198	1013.7
13.4290	0.9705	-0.0307	0.97101	0.20273	18.375	4.889	0.12210	1015.7
13.2742	0.9706	-0.0257	0.97094	0.20524	18.497	4.914	0.12221	1017.4
13.1193	0.9707	-0.0206	0.97088	0.20777	18.598	4.934	0.12230	1018.8
12.9645	0.9707	-0.0155	0.97083	0.21031	18.678	4.950	0.12236	1019.9
12.8097	0.9707	-0.0104	0.97080	0.21288	18.737	4.961	0.12241	1020.7
12.6548	0.9708	-0.0052	0.97077	0.21550	18.773	4.969	0.12244	1021.2
12.5000	0.9708	0.0000	0.97077	0.21817	18.787	4.971	0.12246	1021.4

COMB SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.9311 ENTRPHY=33.3548
 GAMMA (AVG.)=1.3236 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.9311	0.9706	-0.0474	0.97174	0.19437	22.119	5.082	0.11625	1176.3
13.7880	0.9707	-0.0426	0.97163	0.19678	22.364	5.125	0.11641	1179.4
13.6449	0.9708	-0.0379	0.97153	0.19916	22.582	5.163	0.11655	1182.2
13.5018	0.9709	-0.0332	0.97145	0.20151	22.774	5.196	0.11668	1184.7
13.3586	0.9710	-0.0285	0.97137	0.20384	22.940	5.224	0.11679	1186.8
13.2155	0.9710	-0.0238	0.97131	0.20618	23.082	5.249	0.11688	1188.6
13.0724	0.9711	-0.0191	0.97126	0.20852	23.200	5.269	0.11696	1190.1
12.9293	0.9711	-0.0143	0.97122	0.21089	23.293	5.285	0.11702	1191.2
12.7862	0.9711	-0.0096	0.97119	0.21327	23.361	5.297	0.11706	1192.1
12.6431	0.9712	-0.0048	0.97117	0.21570	23.403	5.304	0.11709	1192.6
12.5000	0.9712	0.0000	0.97116	0.21817	23.418	5.306	0.11710	1192.8

COMB SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.8417 ENTRPHY=33.7568
 GAMMA (AVG.)=1.3153 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.8417	0.9710	-0.0445	0.97198	0.19579	27.091	5.376	0.11217	1361.8
13.7076	0.9711	-0.0400	0.97188	0.19805	27.374	5.419	0.11232	1365.2
13.5734	0.9711	-0.0356	0.97180	0.20029	27.625	5.457	0.11245	1368.2
13.4392	0.9712	-0.0311	0.97172	0.20250	27.846	5.490	0.11256	1370.9
13.3050	0.9713	-0.0267	0.97166	0.20470	28.039	5.519	0.11266	1373.1
13.1709	0.9713	-0.0223	0.97160	0.20690	28.203	5.543	0.11274	1375.0
13.0367	0.9714	-0.0179	0.97155	0.20911	28.338	5.564	0.11281	1376.6
12.9025	0.9714	-0.0135	0.97152	0.21133	28.445	5.580	0.11286	1377.9
12.7683	0.9715	-0.0090	0.97149	0.21357	28.524	5.591	0.11290	1378.8
12.6342	0.9715	-0.0045	0.97148	0.21585	28.572	5.599	0.11292	1379.3
12.5000	0.9715	0.0000	0.97147	0.21817	28.590	5.601	0.11293	1379.5

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.7718 ENTRØPY=34.1504
GAMMA (AVG.)=1.3089 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.7718	0.9712	-0.0422	0.97217	0.19690	32.586	5.635	0.10894	1562.8
13.6446	0.9713	-0.0380	0.97208	0.19905	32.910	5.678	0.10907	1566.4
13.5175	0.9714	-0.0338	0.97200	0.20117	33.197	5.716	0.10919	1569.7
13.3903	0.9715	-0.0296	0.97194	0.20328	33.451	5.749	0.10929	1572.5
13.2631	0.9715	-0.0254	0.97188	0.20537	33.671	5.778	0.10938	1574.9
13.1359	0.9716	-0.0212	0.97183	0.20746	33.858	5.803	0.10946	1577.0
13.0087	0.9716	-0.0170	0.97179	0.20956	34.013	5.823	0.10952	1578.7
12.8815	0.9717	-0.0128	0.97175	0.21168	34.136	5.839	0.10957	1580.0
12.7544	0.9717	-0.0085	0.97173	0.21381	34.225	5.851	0.10960	1581.0
12.6272	0.9717	-0.0043	0.97172	0.21597	34.280	5.858	0.10962	1581.6
12.5000	0.9717	0.0000	0.97171	0.21817	34.300	5.861	0.10963	1581.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.7160 ENTRØPY=34.5339
GAMMA (AVG.)=1.3041 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.7160	0.9715	-0.0404	0.97232	0.19779	38.605	5.864	0.10633	1779.3
13.5944	0.9716	-0.0364	0.97224	0.19985	38.972	5.907	0.10645	1783.3
13.4728	0.9716	-0.0323	0.97217	0.20189	39.299	5.945	0.10656	1786.7
13.3512	0.9717	-0.0283	0.97211	0.20390	39.587	5.978	0.10665	1789.8
13.2296	0.9718	-0.0243	0.97206	0.20591	39.837	6.007	0.10674	1792.4
13.1080	0.9718	-0.0203	0.97201	0.20792	40.050	6.032	0.10681	1794.6
12.9864	0.9718	-0.0163	0.97197	0.20993	40.226	6.052	0.10686	1796.5
12.8648	0.9719	-0.0122	0.97194	0.21195	40.364	6.068	0.10691	1797.9
12.7432	0.9719	-0.0082	0.97192	0.21400	40.466	6.079	0.10694	1799.0
12.6216	0.9719	-0.0041	0.97191	0.21607	40.528	6.087	0.10696	1799.6
12.5000	0.9719	0.0000	0.97190	0.21817	40.551	6.089	0.10697	1799.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=13.6707 ENTRØPY=34.9063
GAMMA (AVG.)=1.3003 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.6707	0.9717	-0.0390	0.97245	0.19852	45.148	6.065	0.10419	2011.8
13.5536	0.9717	-0.0350	0.97238	0.20051	45.562	6.108	0.10430	2016.0
13.4366	0.9718	-0.0312	0.97231	0.20247	45.930	6.146	0.10441	2019.8
13.3195	0.9719	-0.0273	0.97225	0.20441	46.255	6.180	0.10450	2023.1
13.2024	0.9719	-0.0234	0.97220	0.20635	46.537	6.208	0.10457	2025.9
13.0854	0.9720	-0.0195	0.97216	0.20829	46.777	6.233	0.10464	2028.3
12.9683	0.9720	-0.0157	0.97212	0.21023	46.975	6.253	0.10469	2030.3
12.8512	0.9720	-0.0118	0.97210	0.21218	47.132	6.269	0.10474	2031.8
12.7341	0.9720	-0.0079	0.97208	0.21415	47.246	6.281	0.10477	2033.0
12.6171	0.9721	-0.0040	0.97206	0.21614	47.316	6.288	0.10479	2033.7
12.5000	0.9721	0.0000	0.97206	0.21817	47.342	6.291	0.10479	2033.9

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=13.6335 ENTRØPY=35.2671
GAMMA (AVG.)=1.2974 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.6335	0.9718	-0.0378	0.97256	0.19912	52.214	6.243	0.10242	2260.3
13.5201	0.9719	-0.0340	0.97249	0.20104	52.678	6.286	0.10253	2264.9
13.4068	0.9720	-0.0302	0.97242	0.20295	53.091	6.324	0.10262	2269.0
13.2934	0.9720	-0.0264	0.97237	0.20483	53.455	6.357	0.10271	2272.6
13.1801	0.9721	-0.0227	0.97232	0.20671	53.771	6.386	0.10278	2275.6
13.0667	0.9721	-0.0189	0.97228	0.20859	54.041	6.411	0.10284	2278.2
12.9534	0.9721	-0.0152	0.97225	0.21047	54.263	6.431	0.10290	2280.4
12.8400	0.9722	-0.0114	0.97222	0.21237	54.438	6.447	0.10294	2282.1
12.7267	0.9722	-0.0076	0.97221	0.21427	54.566	6.459	0.10296	2283.3
12.6133	0.9722	-0.0038	0.97219	0.21621	54.645	6.466	0.10298	2284.0
12.5000	0.9722	0.0000	0.97219	0.21817	54.673	6.469	0.10299	2284.3

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-05 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.5519 ENTRØPY=35.6919
GAMMA (AVG.)=1.1395 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.5519	0.9722	-0.0352	0.97279	0.20032	59.789	6.655	0.09283	2410.5
13.4467	0.9722	-0.0317	0.97273	0.20215	60.291	6.703	0.09288	2413.0
13.3415	0.9723	-0.0281	0.97268	0.20394	60.736	6.745	0.09291	2415.1
13.2363	0.9723	-0.0246	0.97263	0.20572	61.127	6.782	0.09295	2417.0
13.1311	0.9724	-0.0211	0.97259	0.20748	61.465	6.815	0.09298	2418.3
13.0260	0.9724	-0.0176	0.97256	0.20924	61.753	6.843	0.09301	2419.7
12.9208	0.9724	-0.0141	0.97253	0.21100	61.990	6.865	0.09303	2420.8
12.8156	0.9724	-0.0106	0.97250	0.21277	62.176	6.883	0.09305	2421.7
12.7104	0.9725	-0.0071	0.97249	0.21455	62.312	6.896	0.09306	2422.3
12.6052	0.9725	-0.0036	0.97248	0.21634	62.395	6.904	0.09306	2422.7
12.5000	0.9725	-0.0000	0.97247	0.21816	62.425	6.907	0.09307	2422.7

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.3702 ENTRØPY=36.6371
GAMMA (AVG.)=1.1181 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.3702	0.9729	-0.0292	0.97333	0.20333	91.119	7.915	0.08408	2667.9
13.2832	0.9729	-0.0263	0.97329	0.20484	81.677	7.963	0.08412	2669.7
13.1962	0.9730	-0.0233	0.97325	0.20633	82.173	8.005	0.08415	2671.4
13.1092	0.9730	-0.0204	0.97322	0.20781	82.609	8.042	0.08418	2672.9
13.0221	0.9730	-0.0175	0.97319	0.20928	82.987	8.074	0.08421	2674.2
12.9351	0.9731	-0.0146	0.97317	0.21075	83.308	8.102	0.08423	2675.2
12.8481	0.9731	-0.0117	0.97315	0.21221	83.572	8.125	0.08425	2675.9
12.7611	0.9731	-0.0088	0.97313	0.21369	83.780	8.142	0.08426	2676.7
12.6740	0.9731	-0.0059	0.97312	0.21517	83.930	8.155	0.08428	2677.0
12.5870	0.9731	-0.0029	0.97311	0.21666	84.023	8.163	0.08428	2677.4
12.5000	0.9731	-0.0000	0.97311	0.21817	84.056	8.166	0.08428	2677.6

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=13.2437 ENTROPY=37.5881
GAMMA (AVG.)=1.1283 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RH0	MU	T (K)
13.2437	0.9734	-0.0250	0.97373	0.20545	105.727	9.158	0.07838	2908.1
13.1693	0.9734	-0.0225	0.97369	0.20674	106.343	9.206	0.07842	2909.5
13.0950	0.9735	-0.0200	0.97367	0.20802	106.892	9.246	0.07845	2911.4
13.0206	0.9735	-0.0175	0.97364	0.20928	107.374	9.283	0.07848	2912.4
12.9462	0.9735	-0.0150	0.97362	0.21054	107.793	9.315	0.07850	2913.7
12.8719	0.9735	-0.0125	0.97360	0.21180	108.149	9.342	0.07852	2914.5
12.7975	0.9735	-0.0100	0.97359	0.21306	108.441	9.363	0.07854	2915.5
12.7231	0.9735	-0.0075	0.97358	0.21433	108.671	9.380	0.07856	2916.2
12.6487	0.9736	-0.0050	0.97357	0.21559	108.837	9.393	0.07856	2916.7
12.5744	0.9736	-0.0025	0.97356	0.21687	108.940	9.401	0.07857	2916.8
12.5000	0.9736	-0.0000	0.97356	0.21816	108.976	9.403	0.07857	2917.1

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF

DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R

VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.9956 ENTRØPY=31.3170

GAMMA (AVG.)=1.3916 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF

DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 276.27 DEG. K

VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=17.9045 ENTRØPY=31.6859

GAMMA (AVG.)=1.3792 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.9956	0.9455	-0.1250	0.95375	0.20007	4.289	2.603	0.22557	445.2	17.9045	0.9516	-0.0928	0.95607	0.21532	6.913	3.314	0.18859	563.8
18.5960	0.9463	-0.1124	0.95299	0.20635	4.384	2.645	0.22645	448.0	17.6141	0.9520	-0.0834	0.95565	0.22004	7.033	3.356	0.18911	566.4
18.1965	0.9471	-0.1000	0.95234	0.21242	4.467	2.681	0.22720	450.4	17.3236	0.9524	-0.0742	0.95528	0.22464	7.139	3.392	0.18955	568.8
17.7969	0.9477	-0.0877	0.95177	0.21836	4.540	2.712	0.22785	452.4	17.0332	0.9527	-0.0650	0.95486	0.22917	7.232	3.424	0.18994	570.8
17.3974	0.9483	-0.0754	0.95128	0.22425	4.604	2.739	0.22841	454.2	16.7427	0.9530	-0.0559	0.95448	0.23367	7.312	3.452	0.19028	572.5
16.9978	0.9488	-0.0632	0.95086	0.23016	4.658	2.763	0.22889	455.7	16.4523	0.9533	-0.0467	0.95444	0.23817	7.381	3.476	0.19056	574.0
16.5982	0.9491	-0.0509	0.95051	0.23614	4.704	2.782	0.22928	457.0	16.1618	0.9535	-0.0376	0.95425	0.24271	7.439	3.495	0.19080	575.2
16.1987	0.9494	-0.0385	0.95022	0.24224	4.741	2.798	0.22960	458.0	15.8713	0.9537	-0.0283	0.95409	0.24732	7.485	3.511	0.19098	576.2
15.7991	0.9497	-0.0259	0.95001	0.24851	4.769	2.810	0.22984	458.7	15.5809	0.9538	-0.0190	0.95390	0.25201	7.519	3.523	0.19112	576.9
15.3995	0.9498	-0.0131	0.94988	0.25501	4.786	2.817	0.22999	459.2	15.2904	0.9539	-0.0096	0.95390	0.25683	7.541	3.530	0.19121	577.4
15.0000	0.9498	0.0000	0.94983	0.26180	4.793	2.820	0.23004	459.4	15.0000	0.9539	0.0000	0.95387	0.26180	7.549	3.532	0.19124	577.6

CBME SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTROPY=31.0178

FLW PRPERTIES

SHOCK ANGLE=17.3561 ENTROPY=32.1317
GAMMA (AVG.)=1.3620 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.3561	0.9545	-0.0760	0.95749	0.22342	10.283	3.923	0.16761	708.4
17.1205	0.9548	-0.0684	0.95720	0.22731	10.432	3.965	0.16797	711.1
16.8849	0.9550	-0.0608	0.95695	0.23112	10.565	4.002	0.16828	713.5
16.6492	0.9552	-0.0533	0.95673	0.23489	10.681	4.034	0.16855	715.0
16.4136	0.9554	-0.0457	0.95654	0.23863	10.783	4.062	0.16878	717.4
16.1780	0.9556	-0.0382	0.95638	0.24237	10.869	4.086	0.16898	718.9
15.9424	0.9558	-0.0307	0.95625	0.24614	10.941	4.106	0.16915	720.2
15.7068	0.9559	-0.0231	0.95615	0.24994	10.998	4.122	0.16928	721.2
15.4712	0.9559	-0.0155	0.95607	0.25381	11.040	4.133	0.16937	721.9
15.2356	0.9560	-0.0078	0.95602	0.25775	11.067	4.141	0.16943	722.4
15.0000	0.9560	0.0000	0.95600	0.26180	11.076	4.143	0.16945	722.5

CBME SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTROPY=31.0178

FLW PRPERTIES

SHOCK ANGLE=17.0320 ENTROPY=32.6109
GAMMA (AVG.)=1.3446 STAG. ENTHALPY=6.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.0320	0.9561	-0.0660	0.95841	0.22835	14.399	4.438	0.15413	876.8
16.8288	0.9564	-0.0593	0.95820	0.23174	14.583	4.481	0.15440	879.7
16.6256	0.9566	-0.0528	0.95801	0.23507	14.747	4.518	0.15464	882.2
16.4224	0.9567	-0.0462	0.95784	0.23836	14.890	4.551	0.15485	884.4
16.2192	0.9569	-0.0397	0.95770	0.24164	15.015	4.579	0.15503	886.3
16.0160	0.9570	-0.0331	0.95758	0.24491	15.122	4.603	0.15518	887.9
15.8128	0.9571	-0.0266	0.95748	0.24820	15.211	4.623	0.15531	889.2
15.6096	0.9572	-0.0200	0.95740	0.25152	15.281	4.639	0.15541	890.3
15.4064	0.9572	-0.0134	0.95734	0.25488	15.332	4.651	0.15548	891.0
15.2032	0.9573	-0.0067	0.95730	0.25830	15.364	4.658	0.15553	891.5
15.0000	0.9573	0.0000	0.95729	0.26180	15.376	4.660	0.15554	891.7

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.8191 ENTRPHY=33.0992
GAMMA IAVG.=1.3299 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
16.8191	0.9572	-0.0593	0.95906	0.23165	19.264	4.877	0.14479	1067.4
16.6372	0.9574	-0.0534	0.95888	0.23470	19.487	4.920	0.14502	1070.5
16.4553	0.9576	-0.0474	0.95873	0.23771	19.685	4.957	0.14521	1073.2
16.2734	0.9577	-0.0415	0.95859	0.24068	19.859	4.990	0.14539	1075.5
16.0914	0.9578	-0.0357	0.95848	0.24364	20.011	5.019	0.14553	1077.6
15.9095	0.9579	-0.0298	0.95838	0.24660	20.140	5.043	0.14566	1079.3
15.7276	0.9580	-0.0239	0.95830	0.24957	20.247	5.064	0.14576	1080.7
15.5457	0.9581	-0.0180	0.95823	0.25256	20.332	5.080	0.14585	1081.8
15.3638	0.9581	-0.0120	0.95819	0.25559	20.394	5.091	0.14590	1082.6
15.1819	0.9581	-0.0060	0.95816	0.25866	20.432	5.098	0.14594	1083.2
15.0000	0.9581	0.0000	0.95814	0.26180	20.446	5.101	0.14596	1083.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.6694 ENTRPHY=33.5839
GAMMA IAVG.=1.3186 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
16.6694	0.9580	-0.0546	0.95953	0.23400	24.877	5.254	0.13801	1279.7
16.5024	0.9581	-0.0491	0.95938	0.23682	25.143	5.296	0.13820	1283.0
16.3355	0.9583	-0.0436	0.95925	0.23959	25.380	5.334	0.13837	1285.9
16.1686	0.9584	-0.0382	0.95914	0.24233	25.588	5.367	0.13852	1288.5
16.0016	0.9585	-0.0328	0.95904	0.24507	25.769	5.396	0.13865	1290.7
15.8347	0.9586	-0.0274	0.95895	0.24780	25.923	5.421	0.13876	1292.5
15.6677	0.9586	-0.0220	0.95888	0.25054	26.051	5.441	0.13885	1294.1
15.5008	0.9587	-0.0165	0.95883	0.25330	26.152	5.457	0.13892	1295.3
15.3339	0.9587	-0.0111	0.95879	0.25609	26.225	5.468	0.13897	1296.2
15.1669	0.9587	-0.0056	0.95876	0.25892	26.271	5.476	0.13900	1296.7
15.0000	0.9588	0.0000	0.95875	0.26180	26.288	5.478	0.13901	1296.9

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NB.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.5592 ENTRPHY=34.0562
GAMMA (AVG.)=1.3103 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.5592	0.9585	-0.0511	0.95988	0.23575	31.239	5.577	0.13292	1513.9
16.4033	0.9587	-0.0460	0.95976	0.23838	31.553	5.620	0.13309	1517.4
16.2474	0.9588	-0.0409	0.95964	0.24098	31.831	5.658	0.13324	1520.6
16.0915	0.9589	-0.0358	0.95954	0.24356	32.077	5.691	0.13337	1523.4
15.9355	0.9590	-0.0307	0.95945	0.24612	32.290	5.720	0.13349	1525.8
15.7796	0.9590	-0.0256	0.95938	0.24869	32.472	5.744	0.13358	1527.8
15.6237	0.9591	-0.0206	0.95932	0.25126	32.622	5.765	0.13366	1529.5
15.4678	0.9591	-0.0155	0.95927	0.25385	32.741	5.781	0.13373	1530.8
15.3118	0.9592	-0.0103	0.95924	0.25646	32.828	5.792	0.13377	1531.7
15.1559	0.9592	-0.0052	0.95921	0.25911	32.881	5.800	0.13380	1532.3
15.0000	0.9592	0.0000	0.95921	0.26180	32.901	5.802	0.13381	1532.5

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.4756 ENTRPHY=34.5185
GAMMA (AVG.)=1.3042 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4756	0.9589	-0.0484	0.96016	0.23708	38.350	5.855	0.12900	1770.2
16.3280	0.9591	-0.0436	0.96004	0.23958	38.715	5.898	0.12915	1774.1
16.1805	0.9592	-0.0387	0.95994	0.24205	39.040	5.936	0.12929	1777.6
16.0329	0.9593	-0.0339	0.95985	0.24450	39.326	5.969	0.12941	1780.6
15.8854	0.9593	-0.0291	0.95977	0.24693	39.575	5.998	0.12952	1783.2
15.7378	0.9594	-0.0243	0.95971	0.24937	39.787	6.023	0.12960	1785.5
15.5902	0.9595	-0.0195	0.95965	0.25181	39.962	6.043	0.12968	1787.3
15.4427	0.9595	-0.0146	0.95961	0.25426	40.100	6.059	0.12973	1788.7
15.2951	0.9595	-0.0098	0.95958	0.25674	40.201	6.071	0.12977	1789.8
15.1476	0.9595	-0.0049	0.95956	0.25925	40.263	6.078	0.12980	1790.4
15.0000	0.9596	0.0000	0.95955	0.26180	40.285	6.081	0.12981	1790.7

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.4105 ENTRØPY=34.9630
GAMMA (AVG.)=1.2998 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.4105	0.9593	-0.0464	0.96038	0.23813	46.209	6.094	0.12592	2049.2
16.2695	0.9594	-0.0417	0.96027	0.24052	46.631	6.137	0.12606	2053.5
16.1284	0.9595	-0.0371	0.96018	0.24289	47.006	6.175	0.12619	2057.3
15.9874	0.9595	-0.0324	0.96010	0.24523	47.337	6.209	0.12630	2060.7
15.8463	0.9596	-0.0278	0.96002	0.24756	47.624	6.238	0.12639	2063.6
15.7052	0.9597	-0.0232	0.95996	0.24990	47.868	6.262	0.12648	2066.0
15.5642	0.9597	-0.0186	0.95991	0.25223	48.070	6.282	0.12654	2068.0
15.4231	0.9598	-0.0140	0.95987	0.25459	48.229	6.298	0.12660	2069.6
15.2821	0.9598	-0.0094	0.95985	0.25696	48.345	6.310	0.12663	2070.7
15.1410	0.9598	-0.0047	0.95983	0.25936	48.417	6.317	0.12666	2071.4
15.0000	0.9598	0.0000	0.95982	0.26180	48.443	6.320	0.12667	2071.7

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.3589 ENTRØPY=35.3909
GAMMA (AVG.)=1.2966 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.3589	0.9595	-0.0447	0.96056	0.23896	54.817	6.301	0.12345	2351.4
16.2230	0.9596	-0.0402	0.96046	0.24127	55.300	6.343	0.12358	2356.2
16.0871	0.9597	-0.0357	0.96037	0.24355	55.729	6.381	0.12370	2360.3
15.9512	0.9598	-0.0313	0.96029	0.24581	56.108	6.415	0.12381	2364.0
15.8153	0.9598	-0.0268	0.96023	0.24807	56.437	6.444	0.12390	2367.1
15.6794	0.9599	-0.0224	0.96017	0.25032	56.716	6.468	0.12398	2369.8
15.5435	0.9600	-0.0180	0.96012	0.25257	56.947	6.489	0.12404	2372.0
15.4077	0.9600	-0.0135	0.96009	0.25484	57.130	6.505	0.12409	2373.8
15.2718	0.9600	-0.0090	0.96006	0.25713	57.262	6.516	0.12412	2375.0
15.1359	0.9600	-0.0045	0.96004	0.25945	57.344	6.524	0.12415	2375.8
15.0000	0.9600	0.0000	0.96003	0.26180	57.374	6.526	0.12415	2376.1

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.2209 ENTROPY=35.8992
GAMMA (AVG.)=1.1302 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.2209	0.9602	-0.0404	0.96104	0.24107	64.171	6.916	0.10977	2472.0
16.0988	0.9603	-0.0363	0.96096	0.24319	64.687	6.965	0.10983	2474.0
15.9767	0.9603	-0.0323	0.96089	0.24527	65.144	7.008	0.10987	2475.8
15.8546	0.9604	-0.0282	0.96082	0.24734	65.546	7.046	0.10992	2477.2
15.7325	0.9605	-0.0242	0.96077	0.24939	65.894	7.079	0.10996	2478.5
15.6104	0.9605	-0.0202	0.96072	0.25143	66.189	7.106	0.10999	2479.9
15.4883	0.9605	-0.0162	0.96068	0.25348	66.433	7.129	0.11001	2480.7
15.3663	0.9606	-0.0122	0.96065	0.25553	66.624	7.147	0.11003	2481.4
15.2442	0.9606	-0.0081	0.96063	0.25760	66.763	7.160	0.11005	2482.0
15.1221	0.9606	-0.0041	0.96062	0.25969	66.849	7.168	0.11006	2482.3
15.0000	0.9606	0.0000	0.96061	0.26180	66.880	7.171	0.11006	2482.5

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=16.1127 ENTROPY=36.3506
GAMMA (AVG.)=1.1207 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.1127	0.9607	-0.0369	0.96142	0.24286	74.307	7.527	0.10462	2593.0
16.0014	0.9608	-0.0331	0.96136	0.24479	74.848	7.574	0.10467	2595.1
15.8901	0.9608	-0.0295	0.96130	0.24669	75.329	7.617	0.10471	2596.8
15.7789	0.9609	-0.0258	0.96124	0.24858	75.752	7.655	0.10475	2598.1
15.6676	0.9609	-0.0221	0.96120	0.25046	76.118	7.688	0.10479	2599.4
15.5563	0.9610	-0.0184	0.96116	0.25233	76.429	7.715	0.10482	2600.4
15.4451	0.9610	-0.0148	0.96113	0.25420	76.685	7.738	0.10485	2601.4
15.3338	0.9610	-0.0111	0.96110	0.25608	76.886	7.756	0.10487	2602.0
15.2225	0.9611	-0.0074	0.96108	0.25796	77.032	7.769	0.10488	2602.5
15.1113	0.9611	-0.0037	0.96107	0.25987	77.122	7.777	0.10488	2602.8
15.0000	0.9611	-0.0000	0.96107	0.26180	77.155	7.780	0.10488	2602.9

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=16.0223 ENTRØPY=36.8031
GAMMA (AVG.)=1.1177 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.0223	0.9612	-0.0339	0.96175	0.24437	85.194	8.137	0.10037	2710.8
15.9201	0.9612	-0.0305	0.96169	0.24614	85.762	8.185	0.10042	2712.5
15.8179	0.9613	-0.0271	0.96164	0.24789	86.266	8.226	0.10046	2714.3
15.7156	0.9613	-0.0237	0.96160	0.24963	86.710	8.264	0.10050	2715.5
15.6134	0.9613	-0.0203	0.96156	0.25136	87.095	8.296	0.10053	2716.8
15.5112	0.9614	-0.0170	0.96153	0.25308	87.422	8.323	0.10056	2717.9
15.4089	0.9614	-0.0136	0.96150	0.25481	87.690	8.346	0.10058	2718.7
15.3067	0.9614	-0.0102	0.96148	0.25654	87.902	8.363	0.10060	2719.4
15.2045	0.9614	-0.0068	0.96146	0.25827	88.055	8.376	0.10061	2719.8
15.1022	0.9614	-0.0034	0.96145	0.26003	88.149	8.384	0.10062	2720.1
15.0000	0.9614	0.0000	0.96145	0.26180	88.183	8.387	0.10063	2720.3

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=15.8573 ENTRØPY=37.9444
GAMMA (AVG.)=1.1383 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
15.8573	0.9619	-0.0285	0.96237	0.24714	115.688	9.587	0.09312	3000.0
15.7716	0.9620	-0.0256	0.96233	0.24862	116.328	9.632	0.09316	3001.9
15.6858	0.9620	-0.0228	0.96229	0.25009	116.898	9.673	0.09320	3003.5
15.6001	0.9621	-0.0199	0.96226	0.25155	117.400	9.710	0.09324	3004.6
15.5144	0.9621	-0.0171	0.96223	0.25301	117.836	9.740	0.09326	3006.0
15.4286	0.9621	-0.0143	0.96221	0.25446	118.206	9.767	0.09328	3006.7
15.3429	0.9621	-0.0114	0.96219	0.25591	118.510	9.788	0.09331	3007.8
15.2572	0.9621	-0.0086	0.96217	0.25737	118.749	9.807	0.09332	3008.1
15.1715	0.9621	-0.0057	0.96216	0.25884	118.922	9.818	0.09334	3008.8
15.0857	0.9622	-0.0029	0.96216	0.26031	119.028	9.826	0.09335	3009.1
15.0000	0.9622	-0.0000	0.96215	0.26180	119.066	9.829	0.09335	3009.0

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NUMBER=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=15.7628 ENTRØPY=39.1157
GAMMA (AVG.)=1.1856 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
15.7628	0.9624	-0.0254	0.96273	0.24875	150.861	10.704	0.08982	3349.2
15.6865	0.9624	-0.0228	0.96270	0.25006	151.598	10.748	0.08986	3351.2
15.6102	0.9625	-0.0203	0.96267	0.25137	152.256	10.789	0.08990	3352.7
15.5339	0.9625	-0.0178	0.96264	0.25267	152.836	10.822	0.08993	3354.9
15.4577	0.9625	-0.0152	0.96262	0.25397	153.340	10.853	0.08996	3355.8
15.3814	0.9625	-0.0127	0.96260	0.25526	153.767	10.879	0.08999	3357.1
15.3051	0.9625	-0.0102	0.96259	0.25656	154.119	10.899	0.09001	3358.2
15.2288	0.9625	-0.0076	0.96258	0.25786	154.395	10.916	0.09003	3358.9
15.1526	0.9626	-0.0051	0.96257	0.25916	154.595	10.929	0.09004	3359.1
15.0763	0.9626	-0.0026	0.96256	0.26048	154.717	10.935	0.09004	3359.8
15.0000	0.9626	0.0000	0.96256	0.26180	154.761	10.938	0.09005	3359.8

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 5466.2 FT./SEC. ENTRPHY=31.0178

SHOCK ANGLE=22.4275

GAMMA (AVG.)=1.3924 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VX	VY	V	THETA	P	RHO	MU	T (K)
12.4475	0.9243	-0.1506	0.93652	0.22992	4.083	2.533	0.27387	435.7
11.9348	0.9255	-0.1354	0.93540	0.23759	4.177	2.575	0.27508	438.4
11.4420	0.9266	-0.1204	0.93443	0.24498	4.258	2.611	0.27612	440.8
10.9493	0.9276	-0.1057	0.93359	0.25221	4.329	2.642	0.27702	442.9
10.4565	0.9284	-0.0909	0.93287	0.25940	4.391	2.669	0.27779	444.7
10.0638	0.9291	-0.0762	0.93225	0.26661	4.445	2.692	0.27845	446.2
11.4710	0.9277	-0.0614	0.93174	0.27392	4.490	2.712	0.27900	447.5
18.9743	0.9302	-0.04664	0.93132	0.28139	4.526	2.727	0.27944	448.5
11.4853	0.9305	0.0312	0.93101	0.28908	4.553	2.739	0.27977	449.2
17.9927	0.9307	-0.0158	0.93081	0.29707	4.570	2.747	0.27998	449.7
17.9000	0.9307	0.0000	0.93073	0.30543	4.577	2.749	0.28006	449.9

FLOW PROPERTIES

SHOCK ANGLE=21.4791

GAMMA (AVG.)=1.3864 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VX	VY	V	THETA	P	RHO	MU	T (K)
21.4791	0.9305	-0.1236	0.93870	0.24281	5.476	2.942	0.24267	499.7
21.0812	0.9313	-0.1111	0.93794	0.24916	5.583	3.004	0.24351	502.3
20.6833	0.9321	-0.0989	0.93720	0.25533	5.676	3.040	0.24424	504.7
20.2854	0.9327	-0.0867	0.93671	0.26139	5.758	3.071	0.24487	506.7
19.8875	0.9332	-0.0745	0.93621	0.26742	5.830	3.099	0.24542	508.4
19.4896	0.9337	-0.0624	0.93579	0.27345	5.891	3.122	0.24588	509.9
19.0916	0.9341	-0.0502	0.93544	0.27955	5.942	3.142	0.24627	511.2
18.6937	0.9344	-0.0379	0.93516	0.28575	5.983	3.158	0.24657	512.1
18.2958	0.9346	-0.0254	0.93495	0.29210	6.014	3.169	0.24680	512.9
17.8979	0.9347	-0.0128	0.93481	0.29865	6.033	3.177	0.24694	513.3
17.5000	0.9348	0.0000	0.93476	0.30543	6.041	3.179	0.24700	513.5

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0170

FLW PRPERTIES

SHOCK ANGLE=20.4727 ENTRPHY=31.9697
GAMMA (AVG.)=1.3683 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
20.4727	0.9368	-0.0940	0.94153	0.25732	9.015	3.721	0.20581	654.8
20.1754	0.9373	-0.0845	0.94109	0.26219	9.154	3.753	0.20631	657.5
19.8781	0.9377	-0.0752	0.94070	0.26696	9.276	3.799	0.20675	659.9
19.5809	0.9381	-0.0659	0.94036	0.27166	9.384	3.832	0.20713	661.9
19.2836	0.9384	-0.0566	0.94007	0.27634	9.478	3.860	0.20746	663.7
18.9863	0.9386	-0.0473	0.93982	0.28103	9.558	3.883	0.20774	665.2
18.6891	0.9388	-0.0380	0.93962	0.28574	9.625	3.903	0.20798	666.4
18.3918	0.9390	-0.0286	0.93945	0.29052	9.678	3.919	0.20816	667.4
18.0946	0.9391	-0.0192	0.93933	0.29537	9.717	3.930	0.20829	668.2
17.7973	0.9392	-0.0097	0.93926	0.30033	9.741	3.938	0.20838	668.6
17.5000	0.9392	0.0000	0.93923	0.30543	9.750	3.940	0.20841	668.8

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0170

FLW PRPERTIES

SHOCK ANGLE=19.9608 ENTRPHY=32.5189
GAMMA (AVG.)=1.3477 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.9608	0.9399	-0.0785	0.94319	0.26503	13.562	4.347	0.18484	843.2
19.7148	0.9402	-0.0706	0.94288	0.26912	13.740	4.389	0.18519	846.0
19.4687	0.9405	-0.0628	0.94261	0.27313	13.897	4.426	0.18551	848.5
19.2226	0.9408	-0.0550	0.94237	0.27711	14.035	4.459	0.18578	850.7
18.9765	0.9410	-0.0472	0.94217	0.28106	14.155	4.487	0.18601	852.6
18.7304	0.9412	-0.0395	0.94199	0.28501	14.258	4.512	0.18621	854.2
18.4843	0.9413	-0.0317	0.94185	0.28898	14.343	4.532	0.18638	855.5
18.2383	0.9414	-0.0238	0.94173	0.29299	14.411	4.547	0.18651	856.5
17.9922	0.9415	-0.0160	0.94165	0.29706	14.460	4.559	0.18660	857.3
17.7461	0.9416	-0.0080	0.94160	0.30120	14.491	4.566	0.18666	857.7
17.5000	0.9416	0.0000	0.94158	0.30543	14.502	4.569	0.18668	857.9

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NB.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 12974.9 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=19.6540 ENTRBPY=33.0857
 GAMMA (AVG.)=1.3303 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.6540	0.9417	-0.0691	0.94427	0.26976	19.119	4.866	0.17139	1061.9
19.4386	0.9420	-0.0622	0.94403	0.27337	19.341	4.909	0.17167	1064.9
19.2232	0.9422	-0.0553	0.94382	0.27693	19.538	4.946	0.17191	1067.6
19.0078	0.9424	-0.0484	0.94363	0.28044	19.712	4.979	0.17213	1070.0
18.7924	0.9426	-0.0415	0.94347	0.28394	19.862	5.008	0.17231	1072.0
18.5770	0.9427	-0.0347	0.94334	0.28744	19.991	5.032	0.17247	1073.7
18.3616	0.9428	-0.0278	0.94322	0.29095	20.098	5.052	0.17260	1075.1
18.1462	0.9429	-0.0210	0.94313	0.29449	20.182	5.068	0.17270	1076.2
17.9308	0.9430	-0.0140	0.94307	0.29808	20.244	5.080	0.17277	1077.1
17.7154	0.9430	-0.0070	0.94303	0.30172	20.282	5.087	0.17282	1077.6
17.5000	0.9430	0.0000	0.94301	0.30543	20.296	5.090	0.17284	1077.7

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 15137.6 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=19.4509 ENTRBPY=33.6482
 GAMMA (AVG.)=1.3173 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.4509	0.9429	-0.0628	0.94501	0.27295	25.687	5.300	0.16214	1309.9
19.2358	0.9431	-0.0565	0.94482	0.27623	25.959	5.343	0.16238	1313.2
19.0207	0.9433	-0.0502	0.94464	0.27947	26.201	5.380	0.16258	1316.1
18.8056	0.9435	-0.0440	0.94449	0.28268	26.414	5.414	0.16276	1318.7
18.5906	0.9436	-0.0378	0.94435	0.28587	26.599	5.442	0.16292	1320.9
18.3755	0.9437	-0.0315	0.94424	0.28907	26.757	5.467	0.16305	1322.8
18.1604	0.9438	-0.0253	0.94415	0.29227	26.888	5.487	0.16316	1324.4
17.9453	0.9439	-0.0190	0.94407	0.29550	26.991	5.503	0.16324	1325.6
17.7302	0.9439	-0.0127	0.94402	0.29876	27.066	5.515	0.16330	1326.5
17.5151	0.9440	-0.0064	0.94399	0.30207	27.113	5.522	0.16334	1327.0
17.3000	0.9440	0.0000	0.94397	0.30543	27.130	5.525	0.16336	1327.2

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NØ.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=19.3082 ENTRØPY=34.1960
GAMMA (AVG.)=1.3083 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.3082	0.9438	-0.0584	0.94555	0.27521	33.265	5.664	0.15549	1587.4
19.1274	0.9439	-0.0525	0.94538	0.27827	33.594	5.707	0.15570	1591.1
18.9466	0.9441	-0.0467	0.94523	0.28128	33.886	5.744	0.15588	1594.3
18.7658	0.9442	-0.0409	0.94510	0.28427	34.143	5.778	0.15604	1597.2
18.5849	0.9443	-0.0351	0.94498	0.28725	34.367	5.807	0.15617	1599.6
18.4041	0.9444	-0.0293	0.94489	0.29022	34.557	5.831	0.15629	1601.7
18.2233	0.9445	-0.0235	0.94481	0.29320	34.714	5.852	0.15638	1603.4
18.0425	0.9446	-0.0177	0.94474	0.29620	34.839	5.868	0.15646	1604.8
17.8616	0.9446	-0.0118	0.94470	0.29924	34.929	5.879	0.15651	1605.8
17.6808	0.9446	-0.0059	0.94467	0.30231	34.985	5.886	0.15655	1606.4
17.5000	0.9447	0.0000	0.94465	0.30543	35.006	5.889	0.15656	1606.6

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NØ.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=19.2037 ENTRØPY=34.7240
GAMMA (AVG.)=1.3020 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.2037	0.9444	-0.0581	0.94596	0.27688	41.855	5.969	0.15055	1895.1
19.0333	0.9445	-0.0496	0.94581	0.27977	42.245	6.012	0.15074	1899.2
18.8630	0.9446	-0.0441	0.94567	0.28262	42.593	6.050	0.15090	1902.8
18.6926	0.9448	-0.0386	0.94555	0.28544	42.899	6.083	0.15104	1906.0
18.5222	0.9449	-0.0331	0.94545	0.28825	43.165	6.112	0.15116	1908.7
18.3518	0.9450	-0.0276	0.94536	0.29107	43.391	6.137	0.15127	1911.0
18.1815	0.9450	-0.0222	0.94529	0.29389	43.578	6.157	0.15135	1912.9
18.0111	0.9451	-0.0167	0.94523	0.29672	43.726	6.173	0.15142	1914.4
17.8407	0.9451	-0.0111	0.94518	0.29959	43.833	6.185	0.15147	1915.5
17.6704	0.9451	-0.0056	0.94517	0.30249	43.900	6.192	0.15150	1916.2
17.5000	0.9452	-0.0000	0.94516	0.30543	43.924	6.195	0.15151	1916.4

CBNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=17500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=19.1248 ENTRPHY=35.2301
GAMMA (AVG.)=1.2977 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.1248	0.9448	-0.0526	0.94027	0.27815	51.455	6.226	0.14678	2233.7
18.9623	0.9449	-0.0473	0.94613	0.28091	51.914	6.269	0.14695	2238.3
18.7999	0.9451	-0.0421	0.94601	0.28363	52.322	6.307	0.14710	2242.3
18.6374	0.9452	-0.0368	0.94590	0.28633	52.682	6.340	0.14723	2245.9
18.4749	0.9453	-0.0316	0.94580	0.28902	52.994	6.369	0.14735	2248.9
18.3124	0.9454	-0.0264	0.94573	0.29171	53.260	6.394	0.14744	2251.5
18.1499	0.9454	-0.0212	0.94566	0.29441	53.480	6.414	0.14752	2253.6
17.9874	0.9455	-0.0159	0.94561	0.29712	53.654	6.430	0.14758	2255.3
17.8250	0.9455	-0.0106	0.94557	0.29985	53.780	6.441	0.14763	2256.5
17.6625	0.9455	-0.0053	0.94555	0.30262	53.858	6.449	0.14766	2257.3
17.5000	0.9455	-0.0000	0.94554	0.30543	53.886	6.451	0.14767	2257.5

CBNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23707.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.9703 ENTRPHY=35.8004
GAMMA (AVG.)=1.1339 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.9703	0.9457	-0.0479	0.94690	0.28049	62.056	6.797	0.13104	2444.2
18.8233	0.9458	-0.0431	0.94678	0.28304	62.565	6.836	0.13111	2446.4
18.6762	0.9459	-0.0382	0.94668	0.28555	63.017	6.879	0.13117	2448.2
18.5292	0.9460	-0.0335	0.94659	0.28803	63.414	6.916	0.13123	2449.9
18.3822	0.9461	-0.0287	0.94651	0.29050	63.757	6.949	0.13127	2451.3
18.2351	0.9461	-0.0239	0.94644	0.29296	64.049	6.977	0.13131	2452.4
18.0881	0.9462	-0.0192	0.94639	0.29542	64.290	7.000	0.13135	2453.2
17.9411	0.9462	-0.0144	0.94635	0.29789	64.479	7.018	0.13138	2454.2
17.7941	0.9463	-0.0096	0.94631	0.30038	64.616	7.031	0.13140	2454.6
17.6470	0.9463	-0.0048	0.94629	0.30289	64.701	7.039	0.13140	2455.0
17.5000	0.9463	0.0000	0.94629	0.30543	64.733	7.042	0.13141	2455.1

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRRPPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.8188 ENTRRPPY=36.3249
GAMMA (AVG.)=1.1209 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
18.8188	0.9465	-0.0431	0.94752	0.28299	73.710	7.492	0.12374	2586.3
18.6889	0.9466	-0.0387	0.94743	0.28528	74.250	7.540	0.12380	2588.0
18.5550	0.9467	-0.0344	0.94734	0.28753	74.729	7.583	0.12386	2589.9
18.4231	0.9468	-0.0301	0.94727	0.28977	75.151	7.620	0.12391	2591.3
18.2913	0.9469	-0.0258	0.94721	0.29199	75.516	7.653	0.12396	2592.5
18.1594	0.9469	-0.0215	0.94715	0.29421	75.826	7.681	0.12399	2593.6
18.0275	0.9470	-0.0172	0.94711	0.29643	76.082	7.703	0.12402	2594.6
17.8956	0.9470	-0.0130	0.94707	0.29865	76.282	7.721	0.12404	2595.2
17.7637	0.9470	-0.0087	0.94705	0.30089	76.428	7.734	0.12406	2595.7
17.6319	0.9470	-0.0043	0.94703	0.30315	76.517	7.742	0.12407	2596.1
17.5000	0.9470	-0.0000	0.94703	0.30543	76.550	7.745	0.12408	2596.1

CBME SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRRPPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.6951 ENTRRPPY=36.8505
GAMMA (AVG.)=1.1179 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	F	RHB	MU	T (K)
18.6951	0.9472	-0.0391	0.94804	0.28505	86.377	8.201	0.11793	2722.9
18.5756	0.9473	-0.0351	0.94796	0.28712	86.948	8.248	0.11799	2724.8
18.4561	0.9474	-0.0312	0.94790	0.28917	87.455	8.290	0.11804	2726.3
18.3365	0.9474	-0.0273	0.94784	0.29120	87.901	8.328	0.11808	2727.5
18.2170	0.9475	-0.0234	0.94778	0.29322	88.288	8.359	0.11815	2728.9
18.0975	0.9475	-0.0195	0.94774	0.29524	88.616	8.387	0.11815	2729.9
17.9780	0.9476	-0.0157	0.94770	0.29725	88.886	8.409	0.11818	2730.9
17.8585	0.9476	-0.0118	0.94767	0.29928	89.099	8.428	0.11821	2731.2
17.7390	0.9476	-0.0079	0.94765	0.30131	89.253	8.440	0.11822	2731.8
17.6195	0.9476	-0.0039	0.94764	0.30336	89.347	8.447	0.11823	2732.2
17.5000	0.9476	-0.0000	0.94764	0.30543	89.381	8.451	0.11823	2732.0

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.5949 ENTROPY=37.3788
GAMMA (AVG.)=1.1238 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.5949	0.9478	-0.0359	0.94847	0.28673	100.057	8.894	0.11339	2855.5
18.4854	0.9479	-0.0322	0.94841	0.28863	100.660	8.941	0.11345	2857.1
18.3759	0.9479	-0.0287	0.94835	0.29050	101.196	8.983	0.11349	2858.7
18.2664	0.9480	-0.0251	0.94830	0.29237	101.668	9.020	0.11354	2859.9
18.1569	0.9480	-0.0215	0.94826	0.29422	102.077	9.051	0.11357	2861.1
18.0474	0.9480	-0.0179	0.94822	0.29607	102.425	9.078	0.11360	2862.1
17.9380	0.9481	-0.0144	0.94819	0.29793	102.711	9.101	0.11363	2862.8
17.8285	0.9481	-0.0108	0.94816	0.29978	102.936	9.117	0.11365	2863.7
17.7190	0.9481	-0.0072	0.94815	0.30165	103.098	9.131	0.11367	2864.0
17.6095	0.9481	-0.0036	0.94814	0.30353	103.198	9.138	0.11367	2864.3
17.5000	0.9481	-0.0000	0.94813	0.30543	103.234	9.141	0.11368	2864.4

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=18.5148 ENTROPY=37.9114
GAMMA (AVG.)=1.1373 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.5148	0.9482	-0.0333	0.94882	0.28808	114.748	9.548	0.10997	2991.2
18.4133	0.9483	-0.0299	0.94877	0.28984	115.386	9.595	0.11002	2992.6
18.3118	0.9483	-0.0266	0.94872	0.29158	115.954	9.636	0.11007	2994.3
18.2103	0.9484	-0.0233	0.94867	0.29331	116.455	9.672	0.11012	2995.7
18.1089	0.9484	-0.0199	0.94864	0.29503	116.889	9.704	0.11016	2996.7
18.0074	0.9485	-0.0166	0.94860	0.29675	117.257	9.730	0.11018	2997.8
17.9059	0.9485	-0.0133	0.94858	0.29847	117.561	9.752	0.11021	2998.7
17.8044	0.9485	-0.0100	0.94856	0.30019	117.799	9.769	0.11022	2999.2
17.7029	0.9485	-0.0067	0.94854	0.30193	117.971	9.782	0.11024	2999.6
17.6015	0.9485	-0.0034	0.94853	0.30367	118.077	9.789	0.11025	3000.0
17.5000	0.9485	-0.0000	0.94853	0.30543	118.115	9.791	0.11025	3000.2

CONE SEMI-ANGLE=17.5
 FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTROPY=31.0178

FLW PROPERTIES

SHOCK ANGLE=18.3896 ENTROPY=39.2751
 GAMMA (AVG.)=1.1928 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
18.3896	0.9489	-0.0292	0.94938	0.29021	155.894	10.808	0.10567	3406.4
18.3006	0.9490	-0.0263	0.94934	0.29174	156.648	10.853	0.10572	3408.2
18.2117	0.9490	-0.0233	0.94930	0.29326	157.320	10.892	0.10577	3410.2
18.1227	0.9490	-0.0204	0.94927	0.29478	157.913	10.928	0.10582	3411.6
18.0337	0.9491	-0.0175	0.94924	0.29629	158.428	10.956	0.10585	3413.5
17.9448	0.9491	-0.0146	0.94921	0.29780	158.865	10.982	0.10588	3414.7
17.8558	0.9491	-0.0117	0.94919	0.29931	159.225	11.003	0.10591	3415.6
17.7669	0.9491	-0.0088	0.94918	0.30083	159.507	11.020	0.10593	3416.2
17.6779	0.9491	-0.0059	0.94916	0.30235	159.711	11.031	0.10594	3416.9
17.5889	0.9492	-0.0029	0.94916	0.30388	159.837	11.039	0.10595	3417.2
17.5000	0.9492	-0.0000	0.94915	0.30543	159.882	11.041	0.10595	3417.4

CONE SEMI-ANGLE=17.5
 FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLW PROPERTIES

SHOCK ANGLE=18.4107 ENTROPY=40.9204
 GAMMA (AVG.)=1.2226 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
18.4107	0.9488	-0.0299	0.94929	0.28987	203.309	10.578	0.10813	4281.3
18.3196	0.9489	-0.0269	0.94924	0.29143	204.315	10.620	0.10817	4284.7
18.2286	0.9489	-0.0239	0.94920	0.29299	205.213	10.659	0.10821	4287.7
18.1375	0.9489	-0.0209	0.94917	0.29454	206.006	10.693	0.10825	4290.3
18.0464	0.9490	-0.0179	0.94914	0.29608	206.694	10.722	0.10828	4292.5
17.9554	0.9490	-0.0149	0.94911	0.29763	207.278	10.747	0.10830	4294.5
17.8643	0.9490	-0.0120	0.94909	0.29917	207.759	10.768	0.10833	4296.1
17.7732	0.9490	-0.0090	0.94907	0.30072	208.137	10.784	0.10834	4297.2
17.6821	0.9490	-0.0060	0.94906	0.30228	208.410	10.796	0.10835	4298.0
17.5911	0.9490	-0.0030	0.94905	0.30385	208.578	10.803	0.10836	4298.7
17.5000	0.9490	-0.0000	0.94905	0.30543	208.638	10.805	0.10836	4299.0

CON SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO. = 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 4325.0 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.4754 ENTROPY=31.2175
GAMMA (AVG.)=1.3885 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
0.4734	0.8731	-0.1908	0.91519	0.25203	3.546	2.336	0.34261	410.3
0.427	0.8771	-0.1716	0.91336	0.26183	3.634	2.378	0.34454	413.1
0.4003	0.8739	-0.1527	0.91179	0.27124	3.710	2.413	0.34619	415.6
0.377	0.8005	-0.1340	0.91043	0.28045	3.777	2.444	0.34761	417.7
0.353	0.7719	-0.1154	0.90924	0.28960	3.835	2.471	0.34884	419.5
0.3277	0.7031	-0.0968	0.90825	0.29882	3.886	2.494	0.34990	421.0
0.3001	0.6440	-0.0780	0.90741	0.30818	3.928	2.514	0.35078	422.3
0.2703	0.5944	-0.0591	0.90671	0.31779	3.962	2.529	0.35149	423.3
0.2381	0.5554	-0.0398	0.90621	0.32774	3.988	2.541	0.35202	424.1
0.2047	0.5257	-0.0201	0.90588	0.33812	4.005	2.549	0.35236	424.6
0.1700	0.4957	0.0000	0.90575	0.34907	4.011	2.552	0.35249	424.8

CON SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO. = 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. R
VELOCITY= 5406.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.9204 ENTROPY=31.4192
GAMMA (AVG.)=1.3885 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
0.4734	0.8731	-0.1908	0.91519	0.25203	3.546	2.336	0.34261	410.3
0.427	0.8771	-0.1716	0.91336	0.26183	3.634	2.378	0.34454	413.1
0.4003	0.8739	-0.1527	0.91179	0.27124	3.710	2.413	0.34619	415.6
0.377	0.8005	-0.1340	0.91043	0.28045	3.777	2.444	0.34761	417.7
0.353	0.7719	-0.1154	0.90924	0.28960	3.835	2.471	0.34884	419.5
0.3277	0.7031	-0.0968	0.90825	0.29882	3.886	2.494	0.34990	421.0
0.3001	0.6440	-0.0780	0.90741	0.30818	3.928	2.514	0.35078	422.3
0.2703	0.5944	-0.0591	0.90671	0.31779	3.962	2.529	0.35149	423.3
0.2381	0.5554	-0.0398	0.90621	0.32774	3.988	2.541	0.35202	424.1
0.2047	0.5257	-0.0201	0.90588	0.33812	4.005	2.549	0.35236	424.6
0.1700	0.4957	0.0000	0.90575	0.34907	4.011	2.552	0.35249	424.8

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=24.0303 ENTRØPY=31.6729
GAMMA (AVG.)=1.3797 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
24.0303	0.9133	-0.1236	0.92164	0.28486	6.820	3.294	0.26137	559.7
23.6273	0.9141	-0.1112	0.92086	0.29135	6.939	3.335	0.26220	562.3
23.2242	0.9149	-0.0989	0.92018	0.29768	7.044	3.372	0.26293	564.6
22.8212	0.9155	-0.0867	0.91959	0.30392	7.136	3.403	0.26356	566.7
22.4182	0.9161	-0.0745	0.91908	0.31013	7.216	3.431	0.26410	568.4
22.0151	0.9165	-0.0623	0.91865	0.31635	7.285	3.455	0.26456	569.9
21.6121	0.9169	-0.0501	0.91828	0.32263	7.342	3.474	0.26495	571.1
21.2091	0.9172	-0.0378	0.91800	0.32899	7.388	3.490	0.26525	572.1
20.8061	0.9174	-0.0254	0.91778	0.33550	7.421	3.502	0.26548	572.8
20.4030	0.9176	-0.0128	0.91765	0.34217	7.443	3.509	0.26562	573.3
20.0000	0.9176	0.0000	0.91759	0.34907	7.451	3.512	0.26567	573.4

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=23.0816 ENTRØPY=32.2682
GAMMA (AVG.)=1.3568 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
23.0816	0.9199	-0.0961	0.92494	0.29880	11.397	4.081	0.22427	754.8
22.7734	0.9204	-0.0864	0.92447	0.30388	11.556	4.123	0.22478	757.5
22.4653	0.9209	-0.0768	0.92405	0.30887	11.697	4.160	0.22522	760.0
22.1571	0.9212	-0.0673	0.92369	0.31380	11.821	4.192	0.22561	762.1
21.8489	0.9216	-0.0578	0.92338	0.31870	11.928	4.220	0.22595	763.9
21.5408	0.9218	-0.0483	0.92311	0.32361	12.021	4.244	0.22623	765.4
21.2326	0.9221	-0.0388	0.92289	0.32855	12.099	4.264	0.22646	766.7
20.9245	0.9223	-0.0292	0.92272	0.33353	12.158	4.280	0.22665	767.7
20.6163	0.9224	-0.0196	0.92259	0.33860	12.203	4.292	0.22678	768.5
20.3081	0.9225	-0.0098	0.92251	0.34377	12.230	4.299	0.22687	768.9
20.0000	0.9225	0.0000	0.92248	0.34907	12.241	4.302	0.22690	769.1

CBNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRBPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=22.5921 ENTRBPV=32.9088
GAMMA (AVG.)=1.3352 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
22.5921	0.9233	-0.0815	0.92684	0.30627	17.279	4.714	0.20316	990.6
22.3329	0.9236	-0.0733	0.92650	0.31060	17.487	4.757	0.20353	993.6
22.0737	0.9239	-0.0652	0.92621	0.31486	17.671	4.794	0.20385	996.2
21.8145	0.9242	-0.0571	0.92594	0.31907	17.833	4.827	0.20413	998.5
21.5553	0.9244	-0.0490	0.92572	0.32326	17.974	4.856	0.20437	1000.4
21.2960	0.9246	-0.0409	0.92552	0.32746	18.094	4.880	0.20458	1002.1
21.0368	0.9248	-0.0328	0.92537	0.33167	18.193	4.900	0.20475	1003.5
20.7776	0.9249	-0.0247	0.92524	0.33592	18.272	4.916	0.20488	1004.6
20.5184	0.9250	-0.0165	0.92515	0.34022	18.330	4.928	0.20498	1005.4
20.2592	0.9251	-0.0083	0.92509	0.34460	18.366	4.935	0.20504	1005.9
20.0000	0.9251	0.0000	0.92507	0.34907	18.379	4.937	0.20507	1006.0

CBNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRBPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=22.2960 ENTRBPV=33.5511
GAMMA (AVG.)=1.3193 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
22.2960	0.9252	-0.0725	0.92807	0.31089	24.469	5.230	0.19970	1264.5
22.0664	0.9255	-0.0652	0.92780	0.31475	24.733	5.272	0.19900	1267.8
21.8368	0.9257	-0.0580	0.92756	0.31855	24.966	5.310	0.19826	1270.7
21.6072	0.9260	-0.0508	0.92735	0.32232	25.172	5.343	0.19748	1273.2
21.3776	0.9261	-0.0436	0.92717	0.32607	25.351	5.372	0.19668	1275.4
21.1480	0.9263	-0.0364	0.92702	0.32982	25.503	5.397	0.19584	1277.3
20.9184	0.9264	-0.0292	0.92690	0.33359	25.630	5.417	0.19498	1278.8
20.6888	0.9265	-0.0220	0.92680	0.33738	25.729	5.433	0.19409	1280.0
20.4592	0.9266	-0.0147	0.92672	0.34121	25.802	5.444	0.19317	1280.9
20.2296	0.9266	-0.0074	0.92668	0.34510	25.847	5.452	0.19214	1281.4
20.0000	0.9267	0.0000	0.92666	0.34907	25.864	5.454	0.19123	1281.6

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=22.1000 ENTRPHY=34.1761
GAMMA (AVG.)=1.3086 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
22.1000	0.9265	-0.0666	0.92891	0.31399	32.967	5.651	0.18055	1576.6
21.8900	0.9268	-0.0599	0.92869	0.31753	33.294	5.694	0.18080	1580.3
21.6800	0.9270	-0.0532	0.92849	0.32103	33.584	5.732	0.18102	1583.5
21.4700	0.9271	-0.0466	0.92831	0.32450	33.839	5.765	0.18121	1586.3
21.2600	0.9273	-0.0400	0.92816	0.32795	34.061	5.794	0.18138	1588.8
21.0500	0.9274	-0.0334	0.92803	0.33140	34.250	5.819	0.18152	1590.9
20.8400	0.9275	-0.0268	0.92792	0.33486	34.407	5.839	0.18164	1592.6
20.6300	0.9276	-0.0201	0.92784	0.33835	34.530	5.855	0.18173	1593.9
20.4200	0.9277	-0.0135	0.92778	0.34187	34.620	5.867	0.18179	1594.9
20.2100	0.9277	-0.0068	0.92774	0.34544	34.676	5.874	0.18184	1595.5
20.0000	0.9277	-0.0000	0.92772	0.34907	34.696	5.877	0.18185	1595.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NB.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.9629 ENTRPHY=34.7759
GAMMA (AVG.)=1.3015 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
21.9629	0.9274	-0.0624	0.92952	0.31	42.774	5.997	0.17403	1927.7
21.7666	0.9276	-0.0561	0.92932	0.31950	43.171	6.040	0.17425	1931.8
21.5703	0.9278	-0.0499	0.92914	0.32278	43.524	6.078	0.17445	1935.5
21.3741	0.9280	-0.0437	0.92899	0.32604	43.835	6.111	0.17462	1938.7
21.1778	0.9281	-0.0375	0.92885	0.32928	44.106	6.140	0.17477	1941.5
20.9815	0.9282	-0.0313	0.92874	0.33252	44.336	6.165	0.17489	1943.8
20.7852	0.9283	-0.0251	0.92865	0.33576	44.526	6.185	0.17500	1945.7
20.5889	0.9284	-0.0189	0.92857	0.33903	44.676	6.201	0.17508	1947.2
20.3926	0.9284	-0.0126	0.92852	0.34233	44.785	6.213	0.17514	1948.3
20.1963	0.9285	-0.0063	0.92848	0.34567	44.853	6.220	0.17517	1949.0
20.0000	0.9285	0.0000	0.92847	0.34907	44.878	6.222	0.17519	1949.3

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19402.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.8631 ENTRPHY=35.3472
GAMMA (AVG.)=1.2969 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.8631	0.9281	-0.0593	0.92997	0.31778	53.887	6.281	0.16923	2318.9
21.6768	0.9283	-0.0533	0.92979	0.32094	54.363	6.323	0.16943	2323.6
21.4905	0.9284	-0.0474	0.92963	0.32406	54.787	6.361	0.16961	2327.7
21.3042	0.9286	-0.0415	0.92949	0.32716	55.160	6.395	0.16977	2331.4
21.1179	0.9287	-0.0356	0.92937	0.33024	55.484	6.424	0.16990	2334.5
20.9316	0.9288	-0.0297	0.92926	0.33333	55.760	6.448	0.17002	2337.1
20.7452	0.9289	-0.0238	0.92918	0.33642	55.988	6.469	0.17011	2339.3
20.5589	0.9289	-0.0179	0.92911	0.33953	56.168	6.485	0.17019	2341.0
20.3726	0.9290	-0.0120	0.92906	0.34267	56.299	6.496	0.17024	2342.3
20.1863	0.9290	-0.0060	0.92903	0.34584	56.380	6.503	0.17027	2343.1
20.0000	0.9290	-0.0000	0.92902	0.34907	56.409	6.506	0.17029	2343.3

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.6325 ENTRPHY=35.9972
GAMMA (AVG.)=1.1276 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.6325	0.9296	-0.0523	0.93104	0.32135	66.308	7.048	0.14839	2498.5
21.4693	0.9297	-0.0470	0.93089	0.32418	66.829	7.096	0.14848	2500.5
21.3060	0.9298	-0.0418	0.93077	0.32696	67.292	7.140	0.14855	2502.2
21.1428	0.9299	-0.0366	0.93066	0.32972	67.698	7.177	0.14862	2503.7
20.9795	0.9300	-0.0313	0.93056	0.33247	68.050	7.210	0.14867	2505.0
20.8163	0.9301	-0.0262	0.93048	0.33520	68.349	7.238	0.14872	2506.1
20.6530	0.9302	-0.0210	0.93042	0.33794	68.595	7.261	0.14876	2507.0
20.4898	0.9302	-0.0157	0.93037	0.34069	68.789	7.279	0.14879	2507.9
20.3265	0.9303	-0.0105	0.93033	0.34345	68.929	7.292	0.14882	2508.2
20.1633	0.9303	-0.0053	0.93030	0.34624	69.016	7.300	0.14883	2508.4
20.0000	0.9303	0.0000	0.93029	0.34907	69.047	7.303	0.14884	2508.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.4488 ENTRØPY=36.5939
GAMMA (AVG.)=1.1183 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.4488	0.9307	-0.0465	0.93191	0.32439	80.072	7.856	0.13963	2656.8
21.3039	0.9309	-0.0418	0.93179	0.32690	80.628	7.905	0.13970	2658.5
21.1591	0.9310	-0.0372	0.93169	0.32938	81.121	7.947	0.13977	2660.3
21.0142	0.9310	-0.0325	0.93161	0.33183	81.555	7.984	0.13983	2661.7
20.8693	0.9311	-0.0279	0.93153	0.33428	81.931	8.016	0.13987	2663.0
20.7244	0.9312	-0.0233	0.93147	0.33672	82.251	8.043	0.13992	2664.3
20.5795	0.9312	-0.0186	0.93142	0.33916	82.514	8.066	0.13995	2665.1
20.4346	0.9313	-0.0140	0.93137	0.34161	82.720	8.083	0.13998	2665.8
20.2898	0.9313	-0.0094	0.93134	0.34407	82.870	8.097	0.13999	2666.0
20.1449	0.9313	-0.0047	0.93133	0.34655	82.962	8.104	0.14001	2666.4
20.0000	0.9313	-0.0000	0.93132	0.34906	82.995	8.107	0.14002	2666.5

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.3046 ENTRØPY=37.1933
GAMMA (AVG.)=1.1207 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.3046	0.9317	-0.0420	0.93261	0.32680	95.148	8.654	0.13293	2809.3
21.1741	0.9318	-0.0378	0.93252	0.32906	95.740	8.701	0.13300	2811.1
21.0437	0.9318	-0.0335	0.93243	0.33130	96.266	8.744	0.13306	2812.2
20.9132	0.9319	-0.0294	0.93236	0.33351	96.729	8.780	0.13311	2813.7
20.7828	0.9320	-0.0252	0.93230	0.33572	97.130	8.811	0.13316	2815.1
20.6523	0.9320	-0.0210	0.93225	0.33792	97.470	8.839	0.13320	2816.0
20.5218	0.9321	-0.0168	0.93221	0.34013	97.751	8.861	0.13323	2816.7
20.3914	0.9321	-0.0126	0.93217	0.34234	97.971	8.878	0.13326	2817.4
20.2609	0.9321	-0.0084	0.93215	0.34456	98.131	8.891	0.13328	2817.8
20.1304	0.9321	-0.0042	0.93213	0.34680	98.229	8.898	0.13329	2818.3
20.0000	0.9321	-0.0000	0.93213	0.34907	98.264	8.902	0.13329	2818.3

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=21.1917 ENTRØPY=37.7974
GAMMA (AVG.)=1.1337 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.1917	0.9324	-0.0384	0.93317	0.32870	111.532	9.413	0.12801	2961.7
21.0725	0.9325	-0.0345	0.93309	0.33076	112.162	9.458	0.12807	2963.7
20.9534	0.9325	-0.0307	0.93302	0.33280	112.723	9.501	0.12813	2964.9
20.8342	0.9326	-0.0269	0.93296	0.33483	113.217	9.537	0.12818	2966.4
20.7150	0.9326	-0.0230	0.93291	0.33685	113.646	9.568	0.12822	2967.6
20.5958	0.9327	-0.0192	0.93287	0.33887	114.009	9.594	0.12826	2968.6
20.4767	0.9327	-0.0154	0.93283	0.34089	114.309	9.617	0.12829	2969.3
20.3575	0.9327	-0.0116	0.93280	0.34291	114.544	9.634	0.12832	2969.9
20.2383	0.9328	-0.0077	0.93278	0.34495	114.714	9.647	0.12833	2970.1
20.1192	0.9328	-0.0039	0.93277	0.34699	114.819	9.654	0.12834	2970.8
20.0000	0.9328	-0.0000	0.93277	0.34906	114.856	9.657	0.12835	2970.8

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=21.1063 ENTRØPY=38.4091
GAMMA (AVG.)=1.1549 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
21.1063	0.9329	-0.0357	0.93359	0.33015	129.225	10.092	0.12463	3127.2
20.9957	0.9330	-0.0321	0.93353	0.33206	129.900	10.137	0.12470	3128.9
20.8851	0.9330	-0.0285	0.93347	0.33395	130.501	10.177	0.12476	3130.7
20.7744	0.9331	-0.0250	0.93342	0.33584	131.031	10.214	0.12480	3131.8
20.6638	0.9331	-0.0214	0.93338	0.33771	131.491	10.244	0.12485	3133.1
20.5532	0.9332	-0.0179	0.93334	0.33959	131.882	10.271	0.12489	3134.2
20.4425	0.9332	-0.0143	0.93331	0.34147	132.203	10.292	0.12491	3135.1
20.3319	0.9332	-0.0107	0.93328	0.34335	132.455	10.309	0.12494	3135.7
20.2213	0.9332	-0.0072	0.93327	0.34524	132.638	10.321	0.12496	3136.2
20.1106	0.9332	-0.0036	0.93325	0.34714	132.750	10.328	0.12496	3136.6
20.0000	0.9333	-0.0000	0.93325	0.34906	132.790	10.331	0.12496	3136.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.0457 ENTROPY=39.0315
GAMMA (AVG.)=1.1817 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0457	0.9333	-0.0337	0.93390	0.33118	148.224	10.643	0.12266	3320.4
20.9412	0.9334	-0.0304	0.93384	0.33298	148.953	10.687	0.12273	3322.3
20.8366	0.9334	-0.0270	0.93379	0.33477	149.504	10.727	0.12278	3324.0
20.7320	0.9334	-0.0236	0.93375	0.33655	150.177	10.762	0.12283	3325.5
20.6274	0.9335	-0.0202	0.93371	0.33833	150.675	10.792	0.12287	3327.1
20.5229	0.9335	-0.0169	0.93367	0.34010	151.098	10.819	0.12291	3328.0
20.4183	0.9335	-0.0135	0.93365	0.34188	151.445	10.839	0.12294	3329.3
20.3137	0.9336	-0.0102	0.93362	0.34366	151.718	10.856	0.12296	3329.7
20.2091	0.9336	-0.0068	0.93361	0.34545	151.915	10.867	0.12298	3330.5
20.1046	0.9336	-0.0034	0.93360	0.34725	152.037	10.875	0.12299	3330.8
20.0000	0.9336	0.0000	0.93359	0.34907	152.081	10.878	0.12300	3330.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=21.0533 ENTROPY=40.8633
GAMMA (AVG.)=1.2243 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0533	0.9332	-0.0340	0.93386	0.33107	201.397	10.577	0.12519	4247.0
20.9480	0.9333	-0.0306	0.93380	0.33288	202.394	10.620	0.12525	4250.4
20.8426	0.9334	-0.0272	0.93375	0.33468	203.283	10.658	0.12530	4253.5
20.7373	0.9334	-0.0238	0.93371	0.33647	204.068	10.691	0.12534	4256.1
20.6320	0.9334	-0.0204	0.93367	0.33826	204.750	10.720	0.12539	4258.6
20.5266	0.9335	-0.0170	0.93363	0.34004	205.329	10.745	0.12542	4260.5
20.4213	0.9335	-0.0136	0.93360	0.34183	205.805	10.766	0.12544	4262.1
20.3160	0.9335	-0.0102	0.93358	0.34362	206.179	10.782	0.12547	4263.3
20.2107	0.9335	-0.0068	0.93357	0.34543	206.450	10.794	0.12548	4264.2
20.1053	0.9335	-0.0034	0.93356	0.34724	206.616	10.801	0.12549	4264.6
20.0000	0.9336	0.0000	0.93355	0.34907	206.675	10.803	0.12549	4264.9

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF

DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K

VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=20.9613

ENTROPY=42.3383

GAMMA (AVG.)=1.1667 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
20.9613	0.9338	-0.0311	0.93434	0.33259	262.774	11.516	0.11696	4943.4
20.8652	0.9339	-0.0279	0.93429	0.33425	263.963	11.561	0.11700	4945.8
20.7691	0.9339	-0.0248	0.93424	0.33590	265.025	11.601	0.11703	4947.9
20.6729	0.9340	-0.0217	0.93421	0.33754	265.960	11.637	0.11706	4949.7
20.5768	0.9340	-0.0186	0.93417	0.33918	266.772	11.668	0.11708	4951.3
20.4807	0.9340	-0.0155	0.93414	0.34081	267.462	11.694	0.11710	4952.7
20.3845	0.9340	-0.0124	0.93412	0.34245	268.029	11.715	0.11712	4953.8
20.2884	0.9341	-0.0093	0.93410	0.34409	268.474	11.732	0.11713	4954.6
20.1923	0.9341	-0.0062	0.93409	0.34574	268.796	11.745	0.11714	4955.2
20.0961	0.9341	-0.0031	0.93408	0.34740	268.993	11.752	0.11715	4955.6
20.0000	0.9341	0.0000	0.93408	0.34907	269.064	11.755	0.11715	4955.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.9939 ENTROPY=31.1253
GAMMA (AVG.)=1.3966 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9939	0.8480	-0.2629	0.88783	0.25782	2.782	2.015	0.46632	373.1
11.0445	0.8521	-0.2364	0.88428	0.27125	2.862	2.057	0.46024	376.1
10.0951	0.8558	-0.2105	0.88129	0.28403	2.930	2.092	0.46356	378.6
29.1457	0.8590	-0.1850	0.87871	0.29652	2.990	2.122	0.46643	380.8
28.1963	0.8618	-0.1596	0.87648	0.30898	3.042	2.149	0.46892	382.7
27.2464	0.8642	-0.1341	0.87455	0.32159	3.087	2.171	0.47107	384.3
26.2975	0.8662	-0.1084	0.87293	0.33451	3.126	2.191	0.47280	385.6
25.3462	0.8677	-0.0822	0.87160	0.34791	3.157	2.207	0.47437	386.7
24.3988	0.8688	-0.0556	0.87059	0.36194	3.181	2.219	0.47549	387.6
23.4494	0.8695	-0.0282	0.86992	0.37680	3.197	2.226	0.47623	388.1
22.5000	0.8697	-0.0000	0.86965	0.39270	3.203	2.229	0.47651	388.3

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=28.9660 ENTROPY=31.3071
GAMMA (AVG.)=1.3919 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9660	0.8749	-0.1878	0.89478	0.29413	4.217	2.579	0.36430	441.9
28.3194	0.8768	-0.1688	0.89296	0.30403	4.311	2.620	0.36624	444.6
27.6728	0.8786	-0.1503	0.89138	0.31361	4.393	2.656	0.36791	447.0
27.0262	0.8802	-0.1318	0.89002	0.32303	4.465	2.687	0.36936	449.1
26.3796	0.8816	-0.1135	0.88884	0.33240	4.528	2.715	0.37061	450.8
25.7330	0.8827	-0.0951	0.88783	0.34182	4.582	2.738	0.37168	452.4
25.0864	0.8837	-0.0766	0.88698	0.35138	4.628	2.757	0.37257	453.6
24.4398	0.8844	-0.0579	0.88630	0.36116	4.665	2.773	0.37329	454.6
23.7932	0.8849	-0.0390	0.88579	0.37125	4.692	2.785	0.37383	455.4
23.1466	0.8852	-0.0197	0.88546	0.38173	4.710	2.792	0.37417	455.9
22.5000	0.8853	0.0000	0.88533	0.39270	4.716	2.795	0.37429	456.0

CBNE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=27.4817 ENTRBPY=31.5662
GAMMA (AVG.)=1.3836 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
27.4817	0.8871	-0.1482	0.89942	0.31415	6.060	3.114	0.31356	525.9
26.9835	0.8883	-0.1332	0.89828	0.22207	6.172	3.156	0.31476	526.6
26.4653	0.8894	-0.1185	0.89728	0.32978	6.270	3.192	0.31580	530.9
25.9872	0.8904	-0.1039	0.89642	0.33738	6.357	3.224	0.31671	532.9
25.4890	0.8912	-0.0893	0.89567	0.34495	6.432	3.251	0.31749	534.7
24.9908	0.8919	-0.0748	0.89503	0.35254	6.496	3.275	0.31816	536.1
24.4927	0.8925	-0.0601	0.89450	0.36020	6.550	3.294	0.31871	537.4
23.9945	0.8929	-0.0454	0.89407	0.36800	6.593	3.310	0.31915	538.3
23.4963	0.8932	-0.0305	0.89376	0.37598	6.625	3.322	0.31948	539.1
22.9982	0.8934	-0.0154	0.89356	0.38419	6.646	3.329	0.31969	539.5
22.5000	0.8935	0.0000	0.89348	0.39270	6.653	3.332	0.31976	539.7

CBNE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.6331 ENTRBPY=31.8767
GAMMA (AVG.)=1.3720 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.6331	0.8930	-0.1246	0.90252	0.32628	8.312	3.596	0.28171	624.7
26.2198	0.8947	-0.1121	0.90171	0.33298	8.444	3.638	0.28256	627.3
25.8065	0.8955	-0.0997	0.90101	0.33953	8.561	3.674	0.28330	629.7
25.3931	0.8961	-0.0874	0.90039	0.34601	8.663	3.707	0.28394	631.7
24.9798	0.8967	-0.0751	0.89985	0.35246	8.753	3.734	0.28450	633.5
24.5665	0.8972	-0.0628	0.89940	0.35891	8.829	3.758	0.28497	635.0
24.1532	0.8976	-0.0504	0.89902	0.36542	8.893	3.779	0.28536	636.2
23.7399	0.8979	-0.0380	0.89872	0.37201	8.944	3.794	0.28567	637.2
23.3266	0.8981	-0.0255	0.89850	0.37873	8.981	3.805	0.28590	637.9
22.9133	0.8983	-0.0128	0.89836	0.38562	9.005	3.812	0.28604	638.4
22.5000	0.8983	0.0.000	0.89830	0.39270	9.013	3.815	0.28609	638.5

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=25.7213 ENTRPHY=32.5718
 GAMMA (AVG.)=1.3459 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
25.7213	0.9009	-0.0986	0.90629	0.33987	14.041	4.400	0.24405	862.5
25.3991	0.9014	-0.0887	0.90578	0.34520	14.222	4.442	0.24458	865.3
25.0770	0.9019	-0.0789	0.90533	0.35045	14.382	4.479	0.24504	867.8
24.7549	0.9023	-0.0691	0.90494	0.35564	14.524	4.512	0.24544	870.0
24.4328	0.9027	-0.0593	0.90460	0.36080	14.647	4.540	0.24579	871.9
24.1106	0.9030	-0.0496	0.90432	0.36597	14.752	4.564	0.24609	873.5
23.7885	0.9032	-0.0398	0.90408	0.37117	14.839	4.584	0.24633	874.6
23.4664	0.9034	-0.0300	0.90389	0.37641	14.908	4.600	0.24652	875.8
23.1442	0.9035	-0.0201	0.90375	0.38174	14.958	4.612	0.24666	876.6
22.8221	0.9036	-0.0101	0.90366	0.38716	14.990	4.619	0.24675	877.1
22.5000	0.9036	0.0000	0.90363	0.39270	15.001	4.622	0.24678	877.3

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=25.2450 ENTRPHY=33.2929
 GAMMA (AVG.)=1.3250 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
25.2450	0.9045	-0.0847	0.90844	0.34721	21.406	5.034	0.22271	1149.3
24.9705	0.9049	-0.0762	0.90807	0.35181	21.646	5.077	0.22309	1152.4
24.6960	0.9052	-0.0677	0.90774	0.35633	21.859	5.114	0.22343	1155.2
24.4215	0.9055	-0.0593	0.90745	0.36082	22.046	5.147	0.22373	1157.6
24.1470	0.9058	-0.0509	0.90720	0.36528	22.209	5.176	0.22399	1159.7
23.8725	0.9060	-0.0425	0.90698	0.36975	22.348	5.200	0.22421	1161.5
23.5980	0.9062	-0.0341	0.90681	0.37423	22.463	5.221	0.22439	1163.0
23.3235	0.9063	-0.0257	0.90667	0.37875	22.554	5.236	0.22453	1164.1
23.0490	0.9064	-0.0172	0.90657	0.38332	22.621	5.248	0.22464	1164.9
22.7745	0.9065	-0.0086	0.90650	0.38796	22.662	5.255	0.22470	1165.5
22.5000	0.9065	0.0000	0.90648	0.39270	22.677	5.258	0.22472	1165.7

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 12974.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.9560 ENTRPHY=34.0002
 GAMMA (AVG.)=1.3112 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.9560	0.9066	-0.0762	0.90982	0.35175	30.410	5.540	0.20923	1483.7
24.7104	0.9069	-0.0685	0.90992	0.35589	30.717	5.582	0.20954	1487.2
24.4648	0.9072	-0.0609	0.90925	0.35997	30.991	5.620	0.20982	1490.3
24.2192	0.9074	-0.0533	0.90901	0.36401	31.231	5.653	0.21006	1493.1
23.9736	0.9077	-0.0458	0.90881	0.36804	31.441	5.682	0.21027	1495.4
23.7280	0.9078	-0.0382	0.90864	0.37207	31.619	5.707	0.21045	1497.4
23.4824	0.9080	-0.0306	0.90850	0.37611	31.766	5.727	0.21060	1499.1
23.2368	0.9081	-0.0231	0.90838	0.38018	31.883	5.743	0.21071	1500.4
22.9912	0.9082	-0.0154	0.90830	0.38429	31.968	5.755	0.21080	1501.3
22.7456	0.9082	-0.0077	0.90825	0.38846	32.020	5.762	0.21085	1501.9
22.5000	0.9082	-0.0000	0.90823	0.39270	32.039	5.765	0.21087	1502.1

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.7655 ENTRPHY=34.6780
 GAMMA (AVG.)=1.3025 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.7655	0.9080	-0.0705	0.91076	0.35478	41.051	5.944	0.20015	1866.5
24.5190	0.9083	-0.0634	0.91050	0.35861	41.436	5.987	0.20042	1870.6
24.2734	0.9085	-0.0563	0.91027	0.36239	41.778	6.025	0.20066	1874.2
24.0278	0.9087	-0.0493	0.91007	0.36614	42.080	6.058	0.20087	1877.3
23.7822	0.9089	-0.0423	0.90989	0.36987	42.342	6.087	0.20105	1880.0
23.5366	0.9091	-0.0353	0.90974	0.37361	42.565	6.112	0.20121	1882.3
23.2910	0.9092	-0.0283	0.90962	0.37735	42.749	6.132	0.20133	1884.2
23.0454	0.9093	-0.0213	0.90952	0.38112	42.895	6.148	0.20143	1885.7
22.8000	0.9093	-0.0143	0.90945	0.38493	43.001	6.160	0.20150	1886.8
22.5546	0.9094	-0.0072	0.90941	0.38878	43.066	6.167	0.20155	1887.4
22.3090	0.9094	-0.0000	0.90939	0.39270	43.090	6.170	0.20157	1887.7

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 17299.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.6330 ENTROPY=35.3207
 GAMMA (AVG.)=1.2971 STAG. ENTHALPY=1.5256E 08 FT. SEC./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.6330	0.9090	-0.0665	0.91142	0.35691	53.330	6.268	0.19374	2299.4
24.4197	0.9092	-0.0598	0.91119	0.36052	53.802	6.311	0.19399	2304.1
24.2064	0.9094	-0.0532	0.91099	0.36409	54.222	6.349	0.19420	2308.2
23.9931	0.9096	-0.0465	0.91081	0.36763	54.592	6.382	0.19439	2311.8
23.7798	0.9098	-0.0399	0.91065	0.37116	54.914	6.411	0.19456	2314.9
23.5665	0.9099	-0.0333	0.91052	0.37469	55.188	6.436	0.19469	2317.5
23.3532	0.9100	-0.0267	0.91041	0.37823	55.414	6.456	0.19481	2319.7
23.1399	0.9101	-0.0201	0.91032	0.38178	55.592	6.472	0.19490	2321.4
22.9266	0.9102	-0.0134	0.91026	0.38538	55.722	6.484	0.19496	2322.7
22.7133	0.9102	-0.0067	0.91022	0.38901	55.802	6.491	0.19500	2323.4
22.5000	0.9102	-0.0000	0.91021	0.39270	55.831	6.494	0.19502	2323.7

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172300.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 19462.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.3473 ENTROPY=36.0396
 GAMMA (AVG.)=1.1265 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.3473	0.9111	-0.0580	0.91291	0.36134	67.245	7.105	0.16875	2509.8
24.1625	0.9112	-0.0522	0.91273	0.36453	67.768	7.154	0.16885	2511.7
23.9778	0.9114	-0.0463	0.91257	0.36769	68.233	7.197	0.16894	2513.6
23.7931	0.9115	-0.0406	0.91243	0.37081	68.641	7.235	0.16903	2515.1
23.6084	0.9117	-0.0348	0.91231	0.37391	68.995	7.268	0.16910	2516.2
23.4236	0.9118	-0.0290	0.91221	0.37701	69.295	7.295	0.16915	2517.5
23.2389	0.9118	-0.0232	0.91213	0.38011	69.543	7.318	0.16921	2518.4
23.0542	0.9119	-0.0175	0.91207	0.38321	69.737	7.336	0.16924	2519.0
22.8694	0.9119	-0.0117	0.91202	0.38634	69.878	7.349	0.16926	2519.6
22.6847	0.9120	-0.0059	0.91199	0.38950	69.965	7.357	0.16930	2519.8
22.5000	0.9120	0.0000	0.91198	0.39270	69.997	7.360	0.16929	2519.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=24.1191 ENTROPY=36.7075

GAMMA (AVG.)=1.1178 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.1191	0.9127	-0.0510	0.91412	0.36511	82.834	8.008	0.15784	2685.4
23.9572	0.9128	-0.0459	0.91398	0.36791	83.396	8.056	0.15793	2688.1
23.7953	0.9130	-0.0408	0.91386	0.37068	83.896	8.099	0.15801	2689.8
23.6334	0.9131	-0.0357	0.91376	0.37343	84.335	8.137	0.15807	2691.0
23.4715	0.9132	-0.0306	0.91366	0.37616	84.716	8.169	0.15814	2692.2
23.3096	0.9132	-0.0255	0.91358	0.37889	85.039	8.196	0.15819	2693.1
23.1476	0.9133	-0.0204	0.91352	0.38162	85.305	8.218	0.15822	2694.1
22.9857	0.9133	-0.0154	0.91347	0.38436	85.515	8.236	0.15826	2694.8
22.8238	0.9134	-0.0103	0.91343	0.38711	85.666	8.249	0.15828	2695.2
22.6619	0.9134	-0.0052	0.91341	0.38988	85.760	8.257	0.15830	2695.6
22.5000	0.9134	-0.0000	0.91340	0.39269	85.793	8.260	0.15831	2695.5

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=23.9449 ENTROPY=37.3792

GAMMA (AVG.)=1.1239 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.9449	0.9139	-0.0456	0.91507	0.36803	100.066	8.895	0.14982	2855.6
23.8004	0.9140	-0.0410	0.91496	0.37053	100.669	8.961	0.14989	2857.4
23.6560	0.9141	-0.0365	0.91487	0.37301	101.205	8.982	0.14998	2859.1
23.5115	0.9142	-0.0319	0.91478	0.37546	101.677	9.019	0.15003	2860.4
23.3670	0.9143	-0.0274	0.91471	0.37791	102.087	9.051	0.15010	2861.5
23.2225	0.9144	-0.0228	0.91464	0.38035	102.434	9.078	0.15014	2862.5
23.0780	0.9144	-0.0183	0.91459	0.38280	102.720	9.100	0.15018	2863.3
22.9335	0.9144	-0.0137	0.91455	0.38525	102.945	9.117	0.15021	2864.0
22.7890	0.9145	-0.0092	0.91452	0.38771	103.107	9.131	0.15023	2864.2
22.6445	0.9145	-0.0046	0.91450	0.39019	103.207	9.138	0.15024	2864.5
22.5000	0.9145	-0.0000	0.91450	0.39270	103.243	9.142	0.15025	2864.3

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=23.8140 ENTRØPY=38.0578
GAMMA (AVG.)=1.1421 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.8140	0.9149	-0.0416	0.91580	0.37024	118.936	9.716	0.14425	3029.9
23.6826	0.9149	-0.0374	0.91571	0.37251	119.584	9.762	0.14433	3031.7
23.5512	0.9150	-0.0332	0.91563	0.37476	120.162	9.804	0.14439	3033.0
23.4198	0.9151	-0.0291	0.91556	0.37700	120.671	9.839	0.14445	3034.4
23.2884	0.9152	-0.0249	0.91550	0.37923	121.112	9.870	0.14450	3035.8
23.1570	0.9152	-0.0208	0.91545	0.38145	121.487	9.898	0.14455	3036.4
23.0256	0.9153	-0.0167	0.91541	0.38368	121.795	9.919	0.14459	3037.4
22.8942	0.9153	-0.0125	0.91537	0.38591	122.037	9.936	0.14462	3038.1
22.7628	0.9153	-0.0084	0.91535	0.38816	122.212	9.949	0.14464	3038.4
22.6314	0.9153	-0.0042	0.91533	0.39042	122.320	9.955	0.14465	3039.0
22.5000	0.9153	-0.0000	0.91533	0.39270	122.358	9.959	0.14465	3038.8

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=23.7205 ENTRØPY=38.7476
GAMMA (AVG.)=1.1691 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.7205	0.9155	-0.0386	0.91633	0.37183	139.443	10.412	0.14081	3228.4
23.5985	0.9156	-0.0348	0.91625	0.37393	140.146	10.456	0.14089	3230.4
23.4764	0.9157	-0.0309	0.91618	0.37602	140.772	10.496	0.14095	3232.1
23.3544	0.9157	-0.0270	0.91612	0.37810	141.325	10.531	0.14101	3233.6
23.2323	0.9158	-0.0232	0.91607	0.38017	141.805	10.562	0.14106	3234.8
23.1103	0.9158	-0.0193	0.91603	0.38224	142.212	10.589	0.14111	3235.6
22.9882	0.9159	-0.0155	0.91599	0.38431	142.547	10.610	0.14114	3236.7
22.8662	0.9159	-0.0116	0.91596	0.38639	142.810	10.626	0.14117	3237.5
22.7441	0.9159	-0.0078	0.91594	0.38848	143.000	10.638	0.14119	3237.9
22.6220	0.9159	-0.0039	0.91593	0.39058	143.117	10.645	0.14120	3238.3
22.5000	0.9159	-0.0000	0.91592	0.39270	143.159	10.649	0.14121	3238.2

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NØ = 28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRØPY=31.0178

FLØW PROPERTIES

SHØCK ANGLE=23.6616 ENTRØPY=39.4536
GAMMA (AVG.)=1.2008 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6616	0.9159	-0.0368	0.91667	0.37283	161.584	10.909	0.13929	3473.9
23.5455	0.9160	-0.0331	0.91660	0.37483	162.357	10.953	0.13937	3476.4
23.4293	0.9161	-0.0294	0.91654	0.37682	163.047	10.993	0.13944	3478.1
23.3131	0.9161	-0.0257	0.91648	0.37879	163.655	11.027	0.13950	3479.9
23.1970	0.9162	-0.0221	0.91643	0.38077	164.183	11.056	0.13955	3481.5
23.0808	0.9162	-0.0184	0.91639	0.38274	164.632	11.082	0.13959	3482.7
22.9646	0.9162	-0.0148	0.91636	0.38471	165.001	11.102	0.13963	3483.8
22.8485	0.9163	-0.0111	0.91633	0.38669	165.291	11.118	0.13966	3484.7
22.7323	0.9163	-0.0074	0.91631	0.38868	165.500	11.130	0.13968	3485.3
22.6162	0.9163	-0.0037	0.91630	0.39068	165.629	11.137	0.13969	3485.6
22.5000	0.9163	-0.0000	0.91630	0.39270	165.675	11.140	0.13970	3485.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NØ = 30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRØPY=31.0178

FLØW PROPERTIES

SHØCK ANGLE=23.6631 ENTRØPY=40.2786
GAMMA (AVG.)=1.2278 STAG. ENTHALPY=5.2001E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6631	0.9159	-0.0368	0.91666	0.37282	185.152	10.901	0.14089	3867.1
23.5468	0.9160	-0.0331	0.91659	0.37482	186.238	10.942	0.14097	3870.2
23.4305	0.9161	-0.0294	0.91653	0.37681	187.030	10.979	0.14104	3873.4
23.3142	0.9161	-0.0258	0.91647	0.37878	187.728	11.012	0.14111	3875.8
23.1979	0.9162	-0.0221	0.91642	0.38076	188.334	11.039	0.14116	3878.4
23.0816	0.9162	-0.0184	0.91638	0.38273	188.849	11.063	0.14121	3880.2
22.9652	0.9162	-0.0148	0.91635	0.38471	189.273	11.082	0.14129	3881.8
22.8489	0.9163	-0.0111	0.91632	0.38669	189.606	11.098	0.14128	3883.1
22.7326	0.9163	-0.0074	0.91630	0.38868	189.846	11.109	0.14130	3884.0
22.6163	0.9163	-0.0037	0.91629	0.39068	189.994	11.116	0.14132	3884.4
22.5000	0.9163	0.0000	0.91629	0.39270	190.047	11.118	0.14132	3884.6

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NØ.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270-27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=23.6125 ENTRØPY=42.0689
GAMMA (AVG.)=1.1731 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6125	0.9163	-0.0353	0.91695	0.37364	251.926	11.357	0.13476	4841.7
23.5013	0.9163	-0.0317	0.91689	0.37556	253.084	11.402	0.13480	4844.1
23.3900	0.9164	-0.0282	0.91683	0.37747	254.116	11.442	0.13485	4846.3
23.2788	0.9164	-0.0247	0.91678	0.37937	255.027	11.478	0.13488	4848.2
23.1675	0.9165	-0.0212	0.91673	0.38126	255.817	11.509	0.13491	4849.9
23.0562	0.9165	-0.0177	0.91670	0.38315	256.488	11.535	0.13493	4851.3
22.9450	0.9166	-0.0141	0.91667	0.38505	257.040	11.557	0.13496	4852.4
22.8337	0.9166	-0.0106	0.91664	0.38694	257.473	11.573	0.13497	4853.2
22.7225	0.9166	-0.0071	0.91662	0.38885	257.786	11.585	0.13498	4853.9
22.6112	0.9166	-0.0036	0.91661	0.39077	257.978	11.593	0.13499	4854.3
22.5000	0.9166	0.0000	0.91661	0.39270	258.047	11.596	0.13499	4854.5

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NØ.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270-27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=23.5087 ENTRØPY=43.9141
GAMMA (AVG.)=1.1403 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.5087	0.9170	-0.0320	0.91756	0.37538	328.785	12.451	0.12670	5445.3
23.4078	0.9171	-0.0288	0.91750	0.37713	330.154	12.496	0.12674	5447.3
23.3069	0.9171	-0.0256	0.91746	0.37886	331.375	12.537	0.12678	5449.1
23.2061	0.9171	-0.0224	0.91741	0.38059	332.452	12.573	0.12680	5450.5
23.1052	0.9172	-0.0192	0.91738	0.38231	333.387	12.604	0.12683	5452.0
23.0043	0.9172	-0.0160	0.91735	0.38403	334.180	12.630	0.12685	5453.2
22.9035	0.9172	-0.0128	0.91732	0.38575	334.832	12.651	0.12687	5454.1
22.8026	0.9173	-0.0096	0.91730	0.38748	335.344	12.668	0.12688	5454.9
22.7017	0.9173	-0.0064	0.91729	0.38921	335.713	12.681	0.12689	5455.3
22.6009	0.9173	-0.0032	0.91728	0.39095	335.940	12.688	0.12689	5455.8
22.5000	0.9173	0.0000	0.91727	0.39270	336.020	12.691	0.12690	5455.9

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO. = 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.4822 ENTROPY=31.1741
GAMMA (AVG.)=1.3955 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4822	0.8242	-0.2576	0.86353	0.79892	3.201	2.198	0.48385	393.7
33.5340	0.8282	-0.2317	0.86007	0.31251	3.285	2.239	0.48789	396.6
32.5858	0.8318	-0.2063	0.85701	0.32556	3.358	2.274	0.49136	399.0
31.6376	0.8350	-0.1813	0.85442	0.33839	3.421	2.305	0.49437	401.2
30.6893	0.8377	-0.1563	0.85217	0.35120	3.476	2.332	0.49699	403.0
29.7411	0.8401	-0.1312	0.85024	0.36415	3.524	2.355	0.49924	404.5
28.7929	0.8420	-0.1059	0.84861	0.37740	3.565	2.374	0.50114	405.9
27.8446	0.8435	-0.0803	0.84729	0.39109	3.598	2.390	0.50269	406.9
26.8964	0.8445	-0.0542	0.84628	0.40536	3.623	2.402	0.50386	407.7
25.9482	0.8452	-0.0275	0.84563	0.42038	3.639	2.409	0.50461	408.2
25.0000	0.8454	-0.0000	0.84536	0.43633	3.645	2.412	0.50490	408.4

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO. = 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.5341 ENTROPY=31.4090
GAMMA (AVG.)=1.3889 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5341	0.8523	-0.1860	0.87234	0.33549	4.948	2.812	0.38845	475.6
30.8806	0.8543	-0.1673	0.87050	0.34558	5.049	2.853	0.39044	478.3
30.2272	0.8561	-0.1489	0.86890	0.35539	5.138	2.889	0.39216	480.7
29.5738	0.8576	-0.1306	0.86751	0.36507	5.216	2.920	0.39367	482.7
28.9204	0.8590	-0.1123	0.86631	0.37470	5.284	2.948	0.39496	484.5
28.2670	0.8601	-0.0941	0.86528	0.38439	5.342	2.971	0.39607	486.0
27.6136	0.8611	-0.0757	0.86442	0.39421	5.391	2.991	0.39700	487.2
26.9602	0.8618	-0.0572	0.86373	0.40424	5.430	3.006	0.39774	488.2
26.3068	0.8624	-0.0385	0.86321	0.41455	5.459	3.018	0.39829	488.9
25.6534	0.8627	-0.0194	0.86288	0.42522	5.478	3.025	0.39864	489.4
25.0000	0.8628	0.0000	0.86275	0.43633	5.485	3.028	0.39877	489.6

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 5408.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=30.0996 ENTRPHY=31.7248
 GAMMA (AVG.)=1.3778 STAG. ENTHALPY=1.7535E 07 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
10.0996	0.8651	-0.1486	0.87779	0.35525	7.195	3.375	0.33641	576.1
29.5896	0.8664	-0.1336	0.87661	0.36340	7.317	3.417	0.33765	578.8
79.0796	0.8675	-0.1189	0.87558	0.37136	7.424	3.453	0.33873	581.1
28.5697	0.8685	-0.1042	0.87468	0.37923	7.519	3.485	0.33987	583.1
28.0597	0.8693	-0.0896	0.87391	0.38707	7.601	3.513	0.34098	584.9
27.5498	0.8700	-0.0749	0.87324	0.39493	7.672	3.536	0.34118	586.4
27.0398	0.8706	-0.0602	0.87269	0.40287	7.731	3.556	0.34175	587.6
26.5298	0.8711	-0.0454	0.87225	0.41093	7.778	3.572	0.34221	588.6
26.0199	0.8714	-0.0305	0.87193	0.41916	7.813	3.583	0.34254	589.3
25.5099	0.8716	-0.0154	0.87172	0.42761	7.835	3.591	0.34276	589.7
25.0000	0.8716	0.0000	0.87164	0.43633	7.843	3.593	0.34283	589.9

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 6437.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=29.2779 ENTRPHY=32.0886
 GAMMA (AVG.)=1.3637 STAG. ENTHALPY=2.3965E 07 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.2779	0.8722	-0.1263	0.88134	0.36716	9.440	3.871	0.30382	694.0
28.8501	0.8731	-0.1136	0.88048	0.37412	10.087	3.913	0.30470	696.7
28.4223	0.8739	-0.1010	0.87974	0.38095	10.216	3.950	0.30547	699.1
27.9945	0.8746	-0.0885	0.87908	0.38771	10.330	3.982	0.30614	701.2
27.5667	0.8752	-0.0761	0.87852	0.39444	10.429	4.010	0.30672	703.0
27.1390	0.8757	-0.0636	0.87803	0.40118	10.514	4.034	0.30721	704.5
26.7112	0.8761	-0.0511	0.87764	0.40797	10.585	4.054	0.30762	705.7
26.2834	0.8765	-0.0385	0.87732	0.41485	10.641	4.069	0.30795	706.7
25.8556	0.8767	-0.0258	0.87708	0.42184	10.682	4.081	0.30818	707.5
25.4278	0.8768	-0.0130	0.87693	0.42899	10.708	4.088	0.30833	707.9
25.0000	0.8769	0.0000	0.87688	0.43633	10.717	4.091	0.30839	708.1

CRME SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NB= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTR0PY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=28.3871 ENTR0PY=32.8739
GAMMA (AVG.)=1.3362 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
28.3871	0.8797	-0.1015	0.88558	0.38057	16.928	4.684	0.26533	976.9
28.0484	0.8803	-0.0913	0.88503	0.38619	17.133	4.726	0.26588	979.8
27.7097	0.8808	-0.0812	0.88454	0.39173	17.314	4.763	0.26637	982.4
27.3710	0.8813	-0.0711	0.88412	0.39721	17.474	4.796	0.26680	984.7
27.0322	0.8816	-0.0610	0.88375	0.40267	17.613	4.825	0.26717	986.7
26.6935	0.8820	-0.0510	0.88344	0.40814	17.731	4.849	0.26748	988.3
26.3548	0.8822	-0.0409	0.88318	0.41353	17.829	4.869	0.26774	989.7
26.0161	0.8824	-0.0308	0.88297	0.41917	17.907	4.885	0.26795	990.8
25.6774	0.8826	-0.0206	0.88282	0.42479	17.964	4.896	0.26810	991.6
25.3387	0.8827	-0.0104	0.88273	0.43050	18.000	4.904	0.26819	992.1
25.0000	0.8827	0.0000	0.88269	0.43633	18.013	4.906	0.26822	992.3

CRME SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NB= 10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTR0PY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=27.9180 ENTR0PY=33.6660
GAMMA (AVG.)=1.3170 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
27.9180	0.8836	-0.0881	0.88799	0.38785	25.914	5.313	0.24366	1318.3
27.6262	0.8840	-0.0793	0.88758	0.39274	26.188	5.355	0.24408	1321.6
27.3344	0.8844	-0.0705	0.88721	0.39757	26.431	5.393	0.24445	1324.6
27.0426	0.8847	-0.0617	0.88689	0.40235	26.645	5.426	0.24477	1327.2
26.7508	0.8850	-0.0530	0.88661	0.40711	26.832	5.455	0.24506	1329.4
26.4590	0.8853	-0.0442	0.88638	0.41188	26.990	5.480	0.24529	1331.3
26.1672	0.8855	-0.0355	0.88618	0.41666	27.122	5.500	0.24568	1332.8
25.8754	0.8856	-0.0267	0.88603	0.42148	27.226	5.516	0.24583	1334.1
25.5836	0.8857	-0.0179	0.88591	0.42635	27.301	5.527	0.24575	1335.0
25.2918	0.8858	-0.0090	0.88584	0.43130	27.349	5.535	0.24581	1335.5
25.0000	0.8858	0.0000	0.88581	0.43633	27.366	5.537	0.24584	1335.7

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR=12.00 ALTITUDE=17500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTR0P=31.0178

FLOW PROPERTIES

SHOCK ANGLE=27.6339 ENTR0P=34.4295
GAMMA (AVG.)=1.3053 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.6339	0.8859	-0.0799	0.88952	0.39234	36.891	5.804	0.23012	1718.2
27.3705	0.8863	-0.0719	0.88918	0.39678	37.252	5.847	0.23047	1722.1
27.1071	0.8866	-0.0639	0.88888	0.40116	37.568	5.885	0.23077	1725.5
26.8437	0.8868	-0.0560	0.88861	0.40551	37.845	5.918	0.23104	1728.4
26.5803	0.8871	-0.0480	0.88838	0.40984	38.087	5.947	0.23127	1731.0
26.3169	0.8873	-0.0401	0.88819	0.41417	38.293	5.971	0.23146	1733.2
26.0535	0.8874	-0.0321	0.88803	0.41851	38.463	5.992	0.23162	1735.0
25.7901	0.8876	-0.0242	0.88790	0.42289	38.597	6.008	0.23175	1736.4
25.5268	0.8877	-0.0162	0.88781	0.42731	38.695	6.019	0.23184	1737.4
25.2634	0.8877	-0.0081	0.88775	0.43178	38.755	6.027	0.23190	1738.1
25.0000	0.8877	0.0000	0.88773	0.43633	38.777	6.029	0.23192	1738.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR=14.00 ALTITUDE=17500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTR0P=31.0178

FLOW PROPERTIES

SHOCK ANGLE=27.4476 ENTR0P=35.1520
GAMMA (AVG.)=1.2983 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
27.4476	0.8874	-0.0745	0.89055	0.39531	49.879	6.188	0.22109	2178.4
27.2028	0.8877	-0.0670	0.89025	0.39945	50.326	6.231	0.22139	2182.9
26.9581	0.8880	-0.0596	0.88999	0.40354	50.725	6.269	0.22166	2186.9
26.7133	0.8882	-0.0521	0.88976	0.40759	51.075	6.302	0.22189	2190.3
26.4685	0.8884	-0.0447	0.88956	0.41164	51.380	6.331	0.22209	2193.3
26.2238	0.8886	-0.0374	0.88939	0.41568	51.640	6.356	0.22226	2195.9
25.9790	0.8887	-0.0299	0.88925	0.41973	51.854	6.376	0.22240	2198.0
25.7343	0.8889	-0.0225	0.88914	0.42381	52.023	6.392	0.22251	2199.6
25.4895	0.8889	-0.0151	0.88906	0.42793	52.146	6.404	0.22259	2200.8
25.2447	0.8890	-0.0076	0.88901	0.43210	52.223	6.411	0.22264	2201.5
25.0000	0.8890	0.0000	0.88899	0.43633	52.250	6.414	0.22266	2201.8

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.21007 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17250.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=27.1372 ENTRØPY=35.9304
GAMMA (AVG.)=1.1293 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VA	VN	V	THETA	P	RHR	MU	T (K)
27.1372	0.8899	-0.0656	0.89233	0.40010	64.847	6.957	0.19329	2480.7
26.9235	0.8901	-0.0589	0.89209	0.40379	65.364	7.005	0.19341	2482.9
26.7098	0.8903	-0.0524	0.89189	0.40743	65.823	7.048	0.19354	2484.7
26.4960	0.8905	-0.0458	0.89171	0.41104	66.226	7.086	0.19364	2486.3
26.2823	0.8907	-0.0393	0.89155	0.41462	66.575	7.120	0.19372	2487.4
26.0686	0.8908	-0.0328	0.89142	0.41820	66.872	7.146	0.19380	2488.8
25.8549	0.8909	-0.0263	0.89131	0.42178	67.116	7.170	0.19385	2489.5
25.6412	0.8910	-0.0197	0.89123	0.42537	67.309	7.188	0.19392	2490.1
25.4274	0.8911	-0.0132	0.89116	0.42899	67.448	7.201	0.19394	2490.7
25.2137	0.8911	-0.0066	0.89113	0.43264	67.534	7.209	0.19397	2491.1
25.0000	0.8911	0.0000	0.89111	0.43634	67.565	7.212	0.19398	2491.2

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.8427 ENTRØPY=36.6676
GAMMA (AVG.)=1.1179 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
26.8427	0.8922	-0.0568	0.89405	0.40496	81.859	7.955	0.17907	2676.0
26.6584	0.8924	-0.0510	0.89388	0.40815	82.419	8.003	0.17918	2677.9
26.4742	0.8926	-0.0453	0.89372	0.41130	82.916	8.045	0.17928	2679.5
26.2899	0.8927	-0.0397	0.89359	0.41443	83.354	8.083	0.17937	2680.9
26.1056	0.8928	-0.0340	0.89347	0.41753	83.733	8.116	0.17944	2681.8
25.9213	0.8929	-0.0284	0.89337	0.42064	84.055	8.143	0.17950	2683.0
25.7371	0.8930	-0.0227	0.89329	0.42374	84.320	8.165	0.17956	2684.0
25.5528	0.8931	-0.0171	0.89323	0.42685	84.528	8.183	0.17958	2684.5
25.3685	0.8931	-0.0114	0.89318	0.42998	84.679	8.195	0.17962	2685.2
25.1843	0.8931	-0.0057	0.89315	0.43314	84.772	8.203	0.17964	2685.4
25.0000	0.8931	0.0000	0.89314	0.43634	84.805	8.206	0.17964	2685.4

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.6239 ENTROPY=37.4092
GAMMA (AVG.)=1.1244 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6239	0.8940	-0.0502	0.89537	0.40861	100.871	8.932	0.16896	2863.1
26.4615	0.8941	-0.0451	0.89524	0.41142	101.475	8.979	0.16906	2864.9
26.2991	0.8942	-0.0401	0.89512	0.41420	102.013	9.022	0.16914	2866.2
26.1368	0.8943	-0.0351	0.89501	0.41696	102.487	9.057	0.16922	2867.8
25.9744	0.8944	-0.0301	0.89492	0.41971	102.897	9.089	0.16928	2869.0
25.8120	0.8945	-0.0251	0.89484	0.42245	103.246	9.116	0.16934	2869.9
25.6496	0.8946	-0.0201	0.89478	0.42520	103.533	9.139	0.16939	2870.6
25.4872	0.8946	-0.0151	0.89473	0.42795	103.758	9.156	0.16942	2871.3
25.3248	0.8946	-0.0101	0.89469	0.43072	103.922	9.168	0.16944	2871.8
25.1624	0.8947	-0.0051	0.89467	0.43351	104.022	9.177	0.16946	2871.9
25.0000	0.8947	-0.0000	0.89466	0.43633	104.058	9.179	0.16947	2872.1

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.4649 ENTROPY=38.1596
GAMMA (AVG.)=1.1456 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.4649	0.8952	-0.0453	0.89635	0.41130	121.884	9.830	0.16221	3057.3
26.3184	0.8953	-0.0408	0.89624	0.41383	122.539	9.875	0.16230	3059.1
26.1719	0.8954	-0.0362	0.89614	0.41634	123.123	9.916	0.16238	3060.7
26.0254	0.8955	-0.0317	0.89606	0.41883	123.638	9.951	0.16246	3062.2
25.8789	0.8956	-0.0272	0.89598	0.42131	124.085	9.983	0.16252	3063.4
25.7324	0.8956	-0.0227	0.89592	0.42380	124.464	10.010	0.16257	3064.0
25.5860	0.8957	-0.0182	0.89587	0.42628	124.776	10.031	0.16261	3065.0
25.4395	0.8957	-0.0136	0.89583	0.42877	125.020	10.048	0.16265	3065.8
25.2930	0.8958	-0.0091	0.89580	0.43127	125.198	10.060	0.16268	3066.2
25.1465	0.8958	-0.0046	0.89578	0.43379	125.306	10.069	0.16269	3066.3
25.0000	0.8958	0.0000	0.89577	0.43633	125.345	10.071	0.16269	3066.5

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=26.3568 ENTRØPY=38.9244
GAMMA (AVG.)=1.1771 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.3568	0.8960	-0.0420	0.89703	0.41313	144.891	10.561	0.15839	3284.7
26.2211	0.8961	-0.0378	0.89694	0.41547	145.610	10.605	0.15847	3286.6
26.0854	0.8962	-0.0336	0.89685	0.41779	146.251	10.646	0.15855	3288.1
25.9497	0.8963	-0.0294	0.89678	0.42010	146.816	10.680	0.15863	3289.8
25.8141	0.8964	-0.0252	0.89671	0.42240	147.307	10.710	0.15869	3291.2
25.6784	0.8964	-0.0210	0.89666	0.42470	147.723	10.736	0.15874	3292.3
25.5427	0.8965	-0.0169	0.89662	0.42701	148.066	10.757	0.15878	3293.3
25.4070	0.8965	-0.0127	0.89658	0.42932	148.335	10.774	0.15882	3294.0
25.2713	0.8965	-0.0085	0.89656	0.43164	148.530	10.787	0.15883	3294.2
25.1357	0.8965	-0.0042	0.89654	0.43397	148.650	10.794	0.15885	3294.6
25.0000	0.8965	-0.0000	0.89653	0.43633	148.693	10.796	0.15885	3295.0

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=26.2971 ENTRØPY=39.7113
GAMMA (AVG.)=1.2119 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.2971	0.8965	-0.0402	0.89741	0.41415	169.894	11.019	0.15719	3580.7
26.1674	0.8966	-0.0362	0.89732	0.41638	170.697	11.062	0.15728	3583.0
26.0377	0.8967	-0.0322	0.89725	0.41860	171.415	11.101	0.15737	3585.1
25.9080	0.8967	-0.0281	0.89718	0.42081	172.047	11.135	0.15744	3587.2
25.7783	0.8968	-0.0241	0.89712	0.42301	172.597	11.165	0.15750	3588.5
25.6486	0.8968	-0.0201	0.89707	0.42521	173.063	11.190	0.15755	3589.9
25.5188	0.8969	-0.0161	0.89703	0.42741	173.447	11.210	0.15759	3591.1
25.3891	0.8969	-0.0121	0.89700	0.42962	173.749	11.226	0.15762	3592.2
25.2594	0.8969	-0.0081	0.89697	0.43185	173.967	11.238	0.15765	3592.6
25.1297	0.8969	-0.0041	0.89696	0.43408	174.100	11.245	0.15767	3593.1
25.0000	0.8970	0.0000	0.89695	0.43633	174.148	11.248	0.15767	3593.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.7100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTR0PY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.3495 ENTR0PY=40.7136
GAMMA (AVG.)=1.2276 STAG. ENTHALPY=6.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3495	0.8961	-0.0418	0.89708	0.41328	196.866	10.620	0.16117	4152.6
26.2146	0.8962	-0.0376	0.89698	0.41560	197.836	10.662	0.16127	4156.3
26.0796	0.8963	-0.0334	0.89690	0.41790	198.701	10.699	0.16135	4159.7
25.9447	0.8963	-0.0293	0.89683	0.42019	199.465	10.732	0.16142	4162.5
25.8097	0.8964	-0.0251	0.89676	0.42248	200.127	10.760	0.16148	4165.0
25.6748	0.8965	-0.0209	0.89671	0.42477	200.690	10.784	0.16154	4167.1
25.5398	0.8965	-0.0168	0.89667	0.42706	201.154	10.804	0.16158	4168.8
25.4049	0.8965	-0.0126	0.89663	0.42936	201.518	10.819	0.16162	4170.3
25.2699	0.8966	-0.0084	0.89661	0.43166	201.781	10.830	0.16164	4171.3
25.1349	0.8966	-0.0042	0.89659	0.43399	201.943	10.838	0.16166	4171.7
25.0000	0.8966	-0.0000	0.89658	0.43633	202.001	10.840	0.16166	4172.0

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTR0PY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=26.3086 ENTR0PY=41.4477
GAMMA (AVG.)=1.1947 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3086	0.8964	-0.0406	0.89734	0.41395	225.850	10.926	0.15669	4374.1
26.1737	0.8965	-0.0365	0.89725	0.41620	226.931	10.971	0.15675	4376.9
26.0387	0.8965	-0.0324	0.89717	0.41844	227.895	11.011	0.15680	4379.3
25.9038	0.8967	-0.0284	0.89710	0.42067	228.746	11.046	0.15684	4381.5
25.7688	0.8967	-0.0243	0.89704	0.42289	229.484	11.077	0.15688	4383.4
25.6339	0.8968	-0.0203	0.89699	0.42511	230.112	11.103	0.15691	4385.0
25.4989	0.8968	-0.0163	0.89695	0.42733	230.628	11.125	0.15694	4386.2
25.3639	0.8968	-0.0122	0.89692	0.42956	231.033	11.141	0.15696	4387.2
25.2289	0.8969	-0.0082	0.89689	0.43180	231.326	11.153	0.15697	4388.1
25.0939	0.8969	-0.0041	0.89688	0.43406	231.506	11.161	0.15698	4388.5
25.0000	0.8969	-0.0000	0.89687	0.43633	231.571	11.164	0.15698	4388.7

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=26.1681 ENTRØPY=43.4099
GAMMA (AVG.)=1.1471 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.1681	0.8975	-0.0363	0.89824	0.41629	307.086	12.147	0.14529	5300.4
26.0513	0.8976	-0.0327	0.89817	0.41831	308.398	12.192	0.14534	5302.5
25.9345	0.8976	-0.0290	0.89810	0.42031	309.570	12.232	0.14538	5304.5
25.8177	0.8977	-0.0254	0.89805	0.42231	310.603	12.268	0.14541	5306.1
25.7004	0.8977	-0.0218	0.89800	0.42430	311.499	12.299	0.14545	5307.5
25.5841	0.8978	-0.0182	0.89796	0.42629	312.260	12.325	0.14547	5308.7
25.4673	0.8978	-0.0145	0.89793	0.42829	312.886	12.347	0.14549	5309.7
25.3504	0.8978	-0.0109	0.89790	0.43028	313.376	12.364	0.14551	5310.4
25.2336	0.8979	-0.0073	0.89788	0.43229	313.731	12.376	0.14552	5311.0
25.1168	0.8979	-0.0037	0.89787	0.43430	313.948	12.384	0.14553	5311.3
25.0000	0.8979	-0.0000	0.89787	0.43633	314.026	12.387	0.14553	5311.4

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=26.0505 ENTRØPY=45.5085
GAMMA (AVG.)=1.1276 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
26.0505	0.8984	-0.0327	0.89900	0.41827	400.837	13.426	0.13679	5824.9
25.9454	0.8985	-0.0294	0.89895	0.42009	402.376	13.471	0.13683	5826.7
25.8404	0.8985	-0.0262	0.89889	0.42190	403.749	13.511	0.13687	5828.3
25.7353	0.8986	-0.0229	0.89885	0.42370	404.961	13.547	0.13690	5829.6
25.6303	0.8986	-0.0196	0.89881	0.42550	406.012	13.579	0.13692	5830.8
25.5252	0.8986	-0.0164	0.89878	0.42729	406.903	13.605	0.13695	5832.0
25.4202	0.8987	-0.0131	0.89875	0.42909	407.636	13.626	0.13696	5832.8
25.3151	0.8987	-0.0098	0.89873	0.43089	408.211	13.643	0.13698	5833.5
25.2101	0.8987	-0.0066	0.89871	0.43269	408.626	13.656	0.13699	5833.8
25.1050	0.8987	-0.0033	0.89870	0.43451	408.880	13.663	0.13700	5834.1
25.0000	0.8987	0.0000	0.89870	0.43633	408.971	13.666	0.13700	5834.4

CBME SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=37.0720 ENTRBPY=31.2313
GAMMA (AVG.)=1.3940 STAG. ENTHALPY=6.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
17.0720	0.7978	-0.2536	0.83713	0.33924	3.652	2.377	0.51512	415.3
16.1148	0.8018	-0.2282	0.83360	0.35307	3.741	2.418	0.51939	418.1
15.1576	0.8053	-0.2032	0.83057	0.36646	3.8.7	2.453	0.52308	420.6
14.2004	0.8085	-0.1785	0.82794	0.37966	3.885	2.484	0.52629	422.6
13.2432	0.8112	-0.1538	0.82566	0.39286	3.943	2.511	0.52909	424.4
12.2860	0.8135	-0.1290	0.82370	0.40622	3.994	2.534	0.53150	426.0
11.3288	0.8154	-0.1041	0.82205	0.41986	4.037	2.554	0.53353	427.2
10.3716	0.8169	-0.0788	0.82072	0.43391	4.072	2.569	0.53517	428.3
9.4144	0.8180	-0.0531	0.81971	0.44851	4.098	2.581	0.53641	429.1
8.4572	0.8186	-0.0269	0.81905	0.46381	4.115	2.589	0.53721	429.6
7.5000	0.8188	0.0000	0.81879	0.47997	4.121	2.592	0.53751	429.7

CBME SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.1710 ENTRBPY=31.5204
GAMMA (AVG.)=1.3852 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
34.1710	0.8273	-0.1853	0.84781	0.37609	5.735	3.031	0.41540	511.3
33.5039	0.8293	-0.1667	0.84592	0.38645	5.844	3.073	0.41749	514.0
32.8368	0.8312	-0.1483	0.84428	0.39656	5.939	3.109	0.41931	516.3
32.1697	0.8328	-0.1300	0.84285	0.40655	6.023	3.140	0.42089	518.4
31.5026	0.8341	-0.1119	0.84161	0.41652	6.096	3.168	0.42227	520.1
30.8355	0.8353	-0.0936	0.84055	0.42654	6.159	3.191	0.42344	521.6
30.1684	0.8363	-0.0753	0.83966	0.43668	6.211	3.211	0.42442	522.8
29.5013	0.8370	-0.0569	0.83896	0.44703	6.253	3.227	0.42520	523.8
28.8342	0.8376	-0.0382	0.83843	0.45764	6.285	3.238	0.42578	524.5
28.1671	0.8379	-0.0193	0.83809	0.46859	6.304	3.246	0.42614	525.0
27.5000	0.8380	0.0000	0.83796	0.47997	6.312	3.248	0.42620	525.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=32.7670 ENTROPY=31.8907
GAMMA (AVG.)=1.3714 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.7670	0.8408	-0.1497	0.85407	0.39571	8.417	3.615	0.36156	629.2
32.2403	0.8421	-0.1366	0.85283	0.40416	8.550	3.657	0.36286	631.9
31.7136	0.8433	-0.1198	0.85176	0.41244	8.667	3.694	0.36400	634.2
31.1869	0.8443	-0.1050	0.85081	0.42063	8.770	3.726	0.36500	636.2
30.6602	0.8452	-0.0902	0.85000	0.42879	8.860	3.753	0.36586	638.0
30.1335	0.8459	-0.0754	0.84930	0.43698	8.937	3.777	0.36660	639.5
29.6068	0.8466	-0.0606	0.84872	0.44525	9.001	3.797	0.36721	640.7
29.0801	0.8470	-0.0457	0.84826	0.45363	9.053	3.813	0.36769	641.7
28.5534	0.8474	-0.0307	0.84792	0.46218	9.090	3.824	0.36805	642.4
28.0267	0.8476	-0.0154	0.84771	0.47094	9.114	3.832	0.36827	642.9
27.5000	0.8476	0.0000	0.84762	0.47997	9.123	3.834	0.36835	643.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.9598 ENTROPY=32.3038
GAMMA (AVG.)=1.3555 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.9598	0.8484	-0.1285	0.85807	0.40753	11.694	4.120	0.32791	767.0
31.5138	0.8493	-0.1155	0.85716	0.41481	11.856	4.162	0.32885	769.8
31.0678	0.8502	-0.1027	0.85636	0.42196	11.999	4.199	0.32967	772.2
30.6218	0.8509	-0.0900	0.85567	0.42905	12.124	4.232	0.33038	774.4
30.1759	0.8516	-0.0773	0.85506	0.43611	12.234	4.260	0.33100	776.2
29.7299	0.8521	-0.0646	0.85455	0.44318	12.327	4.284	0.33153	777.7
29.2839	0.8525	-0.0519	0.85412	0.45030	12.405	4.304	0.33197	779.0
28.8379	0.8529	-0.0391	0.85378	0.45751	12.467	4.320	0.33231	780.0
28.3919	0.8531	-0.0262	0.85353	0.46483	12.512	4.331	0.33256	780.8
27.9460	0.8533	-0.0132	0.85338	0.47230	12.541	4.339	0.33272	781.2
27.5000	0.8533	0.0000	0.85332	0.47997	12.551	4.341	0.33278	781.4

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.0776 ENTRPHY=33.1706
GAMMA (AVG.)=1.3280 STAG. ENTHALPHY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.0776	0.8565	-0.1046	0.86282	0.42091	20.038	4.936	0.28832	1097.2
30.7198	0.8571	-0.0941	0.86222	0.42685	20.267	4.979	0.28892	1100.2
30.3621	0.8576	-0.0836	0.86169	0.43272	20.470	5.016	0.28945	1103.0
30.0043	0.8581	-0.0732	0.86122	0.43853	20.649	5.049	0.28992	1105.3
29.6465	0.8585	-0.0629	0.86082	0.44432	20.805	5.078	0.29032	1107.4
29.2888	0.8589	-0.0525	0.86048	0.45011	20.938	5.102	0.29066	1109.1
28.9310	0.8592	-0.0421	0.86020	0.45593	21.048	5.122	0.29094	1110.6
28.5733	0.8594	-0.0317	0.85997	0.46181	21.135	5.138	0.29116	1111.7
28.2155	0.8595	-0.0212	0.85981	0.46775	21.198	5.150	0.29132	1112.5
27.8578	0.8596	-0.0107	0.85970	0.47380	21.238	5.157	0.29142	1113.0
27.5000	0.8597	0.0000	0.85967	0.47997	21.252	5.160	0.29146	1113.2

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=30.6115 ENTRPHY=34.0254
GAMMA (AVG.)=1.3108 STAG. ENTHALPHY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.6115	0.8606	-0.0917	0.86550	0.42818	30.768	5.556	0.26625	1496.7
30.3003	0.8611	-0.0824	0.86504	0.43340	31.078	5.599	0.26671	1500.3
29.9892	0.8615	-0.0733	0.86463	0.43855	31.353	5.637	0.26711	1503.4
29.6780	0.8619	-0.0642	0.86427	0.44366	31.596	5.670	0.26747	1506.2
29.3669	0.8622	-0.0551	0.86396	0.44875	31.807	5.699	0.26778	1508.5
29.0557	0.8625	-0.0460	0.86370	0.45384	31.987	5.723	0.26803	1510.6
28.7446	0.8627	-0.0369	0.86348	0.45896	32.135	5.743	0.26825	1512.2
28.4334	0.8629	-0.0278	0.86331	0.46411	32.253	5.759	0.26842	1513.5
28.1223	0.8630	-0.0186	0.86318	0.46931	32.338	5.771	0.26854	1514.5
27.8111	0.8631	-0.0093	0.86311	0.47459	32.392	5.778	0.26862	1515.1
27.5000	0.8631	0.0000	0.86308	0.47997	32.411	5.781	0.26864	1515.3

CBNE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 12974.9 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=30.3303 ENTRBPY=34.8375
 GAMMA (AVG.)=1.3009 STAG. ENTHALPY=8.7096E 07 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
30.3303	0.8631	-0.0838	0.86718	0.43263	43.884	6.030	0.25260	1967.0
30.0473	0.8635	-0.0753	0.86679	0.43740	44.288	6.072	0.25298	1971.2
29.7643	0.8639	-0.0670	0.86645	0.44211	44.649	6.110	0.25332	1974.9
29.4812	0.8642	-0.0586	0.86615	0.44679	44.966	6.144	0.25362	1978.2
29.1982	0.8644	-0.0503	0.86589	0.45145	45.242	6.173	0.25388	1981.0
28.9151	0.8647	-0.0420	0.86567	0.45612	45.476	6.197	0.25409	1983.3
28.6321	0.8648	-0.0337	0.86549	0.46080	45.670	6.217	0.25427	1985.3
28.3491	0.8650	-0.0253	0.86535	0.46550	45.824	6.234	0.25441	1986.8
28.0660	0.8651	-0.0169	0.86524	0.47026	45.935	6.245	0.25451	1987.9
27.7830	0.8651	-0.0085	0.86518	0.47507	46.004	6.252	0.25458	1988.6
27.5000	0.8652	0.0000	0.86515	0.47997	46.029	6.255	0.25460	1988.9

CBNE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 15137.4 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=30.0301 ENTRBPY=35.6710
 GAMMA (AVG.)=1.1409 STAG. ENTHALPY=1.1749E 08 FT. 50./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
30.0301	0.8658	-0.0755	0.86804	0.43718	59.361	6.631	0.22395	2403.3
29.7771	0.8661	-0.0678	0.86872	0.44153	59.861	6.679	0.22412	2405.8
29.5241	0.8664	-0.0603	0.86845	0.44583	60.305	6.721	0.22429	2408.1
29.2711	0.8666	-0.0527	0.86820	0.45009	60.694	6.759	0.22443	2409.8
29.0181	0.8668	-0.0452	0.86799	0.45431	61.031	6.791	0.22454	2411.5
28.7650	0.8670	-0.0377	0.86781	0.45853	61.318	6.819	0.22465	2412.8
28.5120	0.8671	-0.0303	0.86766	0.46276	61.554	6.841	0.22472	2414.0
28.2590	0.8673	-0.0227	0.86755	0.46700	61.740	6.859	0.22479	2414.7
28.0060	0.8673	-0.0152	0.86746	0.47127	61.875	6.871	0.22484	2415.5
27.7530	0.8674	-0.0076	0.86741	0.47559	61.958	6.880	0.22486	2415.9
27.5000	0.8674	0.0000	0.86739	0.47997	61.989	6.883	0.22487	2415.8

CBNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=29.3549 ENTRBPY=37.2858
GAMMA (AVG.)=1.1222 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. 50.

ETA	VR	Vn	V	THETA	P	RHB	MU	T (K)
29.3549	0.8716	-0.0539	0.87339	0.44833	97.583	8.774	0.19106	2832.3
29.1694	0.8718	-0.0502	0.87321	0.45153	98.180	8.821	0.19118	2834.0
28.9839	0.8719	-0.0446	0.87306	0.45470	98.711	8.863	0.19129	2835.7
28.7984	0.8721	-0.0391	0.87293	0.45785	99.178	8.900	0.19139	2836.9
28.6129	0.8722	-0.0335	0.87281	0.46099	99.583	8.932	0.19146	2838.0
28.4274	0.8723	-0.0279	0.87271	0.46412	99.927	8.959	0.19153	2838.9
28.2419	0.8723	-0.0224	0.87263	0.46725	100.210	8.981	0.19158	2839.8
28.0565	0.8724	-0.0168	0.87257	0.47040	100.433	8.999	0.19162	2840.3
27.8710	0.8725	-0.0112	0.87252	0.47356	100.594	9.011	0.19166	2840.8
27.6855	0.8725	-0.0056	0.87249	0.47674	100.693	9.019	0.19168	2841.1
27.5000	0.8725	-0.0000	0.87248	0.47996	100.728	9.022	0.19169	2841.2

CBNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17298.9 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=29.6412 ENTRBPY=36.4769
GAMMA (AVG.)=1.1190 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. 50.

ETA	VR	Vn	V	THETA	P	RHB	MU	T (K)
29.6412	0.8691	-0.0642	0.87151	0.44356	77.276	7.698	0.20456	2626.4
29.4271	0.8694	-0.0578	0.87128	0.44726	77.825	7.747	0.20471	2628.0
29.2130	0.8696	-0.0513	0.87108	0.45091	78.312	7.788	0.20483	2630.0
28.9989	0.8697	-0.0449	0.87090	0.45453	78.740	7.826	0.20495	2631.4
28.7847	0.8699	-0.0385	0.87075	0.45814	79.112	7.859	0.20504	2632.4
28.5706	0.8700	-0.0321	0.87062	0.46174	79.427	7.886	0.20512	2633.6
28.3565	0.8701	-0.0257	0.87051	0.46534	79.687	7.909	0.20518	2634.5
28.1424	0.8702	-0.0193	0.87043	0.46895	79.891	7.926	0.20524	2635.2
27.9282	0.8703	-0.0129	0.87036	0.47258	80.039	7.939	0.20528	2635.6
27.7141	0.8703	-0.0065	0.87033	0.47625	80.130	7.947	0.20529	2635.9
27.5000	0.8703	-0.0000	0.87031	0.47996	80.163	7.951	0.20530	2635.9

CRNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHBLK ANGLE=29.1515 ENTRBPY=36.1043
GAMMA (AVG.)=1.1437 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.1515	0.8733	-0.0499	0.87476	0.45175	120.277	9.769	0.18226	3042.4
28.9863	0.8735	-0.0449	0.87462	0.45460	120.929	9.814	0.18237	3044.3
28.8212	0.8736	-0.0399	0.87450	0.45743	121.509	9.854	0.18246	3045.9
28.6560	0.8737	-0.0349	0.87439	0.46024	122.021	9.890	0.18256	3047.2
28.4909	0.8738	-0.0299	0.87430	0.46304	122.464	9.921	0.18263	3048.6
28.3257	0.8739	-0.0250	0.87422	0.46583	122.841	9.949	0.18269	3049.2
28.1606	0.8739	-0.0200	0.87416	0.46863	123.151	9.970	0.18274	3050.2
27.9954	0.8740	-0.0150	0.87411	0.47144	123.394	9.987	0.18277	3050.8
27.8303	0.8740	-0.0100	0.87407	0.47426	123.570	10.000	0.18280	3051.1
27.6651	0.8740	-0.0050	0.87405	0.47710	123.678	10.007	0.18283	3051.5
27.5000	0.8740	-0.0000	0.87404	0.47997	123.717	10.010	0.18283	3051.6

CRNE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23707.3 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHBLK ANGLE=29.0173 ENTRBPY=36.9394
GAMMA (AVG.)=1.1777 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0173	0.8745	-0.0459	0.87567	0.45403	145.356	10.572	0.17742	3289.6
28.8655	0.8746	-0.0413	0.87556	0.45664	146.076	10.617	0.17752	3291.3
28.7138	0.8747	-0.0367	0.87546	0.45923	146.719	10.656	0.17762	3293.3
28.5621	0.8748	-0.0321	0.87537	0.46182	147.285	10.692	0.17770	3294.7
28.4104	0.8749	-0.0275	0.87529	0.46439	147.777	10.723	0.17777	3295.9
28.2586	0.8749	-0.0230	0.87522	0.46696	148.194	10.748	0.17783	3297.2
28.1069	0.8750	-0.0184	0.87517	0.46954	148.538	10.770	0.17788	3297.8
27.9552	0.8750	-0.0138	0.87512	0.47212	148.808	10.786	0.17792	3298.8
27.8034	0.8750	-0.0092	0.87509	0.47472	149.003	10.798	0.17795	3299.3
27.6517	0.8751	-0.0046	0.87507	0.47733	149.122	10.805	0.17797	3299.6
27.5000	0.8751	-0.0000	0.87507	0.47997	149.165	10.808	0.17797	3299.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=28.9506 ENTRØPY=39.8121
GAMMA (AVG.)=1.2160 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
28.9506	0.8750	-0.0439	0.87614	0.45517	172.816	11.030	0.17633	3625.0
28.8055	0.8751	-0.0395	0.87603	0.45766	173.633	11.072	0.17643	3627.7
28.6605	0.8752	-0.0351	0.87594	0.46014	174.361	11.111	0.17652	3629.8
28.5154	0.8753	-0.0307	0.87585	0.46261	175.004	11.145	0.17661	3631.6
28.3703	0.8754	-0.0263	0.87578	0.46507	175.562	11.174	0.17667	3633.4
28.2253	0.8754	-0.0220	0.87572	0.46753	176.036	11.200	0.17674	3634.7
28.0802	0.8755	-0.0176	0.87567	0.46999	176.426	11.219	0.17678	3636.2
27.9352	0.8755	-0.0132	0.87563	0.47247	176.732	11.234	0.17683	3637.3
27.7901	0.8756	-0.0088	0.87560	0.47495	176.954	11.247	0.17686	3637.8
27.6450	0.8756	-0.0044	0.87559	0.47745	177.090	11.254	0.17687	3638.2
27.5000	0.8756	0.0000	0.87558	0.47997	177.138	11.256	0.17688	3638.6

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=29.0176 ENTRØPY=40.9006
GAMMA (AVG.)=1.2233 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
29.0176	0.8745	-0.0459	0.87567	0.45405	202.633	10.576	0.18072	4269.4
28.8658	0.8746	-0.0413	0.87556	0.45666	203.636	10.619	0.18081	4272.8
28.7141	0.8747	-0.0367	0.87545	0.45924	204.531	10.657	0.18090	4275.8
28.5623	0.8748	-0.0321	0.87536	0.46182	205.321	10.691	0.18097	4278.4
28.4105	0.8749	-0.0275	0.87529	0.46439	206.006	10.721	0.18103	4280.7
28.2588	0.8749	-0.0230	0.87522	0.46697	206.589	10.746	0.18108	4282.7
28.1070	0.8750	-0.0184	0.87517	0.46954	207.069	10.766	0.18112	4284.1
27.9553	0.8750	-0.0138	0.87512	0.47212	207.445	10.782	0.18116	4285.5
27.8035	0.8750	-0.0092	0.87509	0.47472	207.718	10.794	0.18118	4286.4
27.6518	0.8751	-0.0046	0.87507	0.47733	207.885	10.801	0.18120	4286.9
27.5000	0.8751	0.0000	0.87507	0.47997	207.945	10.804	0.18120	4287.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHRCK ANGLE=28.9418 ENTRPHY=41.6531
 GAMMA (AVG.)=1.1858 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9418	0.8751	-0.0436	0.87620	0.45530	234.853	11.087	0.17355	4670.5
28.7976	0.8752	-0.0393	0.87609	0.45778	235.959	11.132	0.17361	4673.1
28.6534	0.8753	-0.0349	0.87600	0.46025	236.947	11.173	0.17367	4675.5
28.5093	0.8754	-0.0305	0.87592	0.46270	237.818	11.208	0.17372	4677.4
28.3651	0.8755	-0.0262	0.87585	0.46515	238.574	11.239	0.17377	4679.2
28.2209	0.8755	-0.0218	0.87579	0.46760	239.216	11.265	0.17381	4680.7
28.0767	0.8756	-0.0175	0.87574	0.47005	239.744	11.287	0.17384	4681.9
27.9325	0.8756	-0.0131	0.87570	0.47251	240.159	11.303	0.17386	4682.9
27.7883	0.8756	-0.0088	0.87567	0.47498	240.459	11.316	0.17388	4683.5
27.6442	0.8756	-0.0044	0.87566	0.47746	240.642	11.323	0.17389	4684.0
27.5000	0.8756	-0.0000	0.87565	0.47996	240.708	11.326	0.17389	4684.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 32437.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHRCK ANGLE=28.8719 ENTRPHY=42.5038
 GAMMA (AVG.)=1.1631 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.8719	0.8757	-0.0416	0.87669	0.45646	269.466	11.612	0.16775	5003.1
28.7347	0.8758	-0.0374	0.87659	0.45883	270.674	11.658	0.16781	5005.4
28.5975	0.8759	-0.0332	0.87651	0.46118	271.753	11.698	0.16786	5007.4
28.4603	0.8760	-0.0291	0.87643	0.46352	272.704	11.733	0.16791	5009.3
28.3231	0.8760	-0.0250	0.87637	0.46585	273.530	11.765	0.16795	5010.8
28.1859	0.8761	-0.0208	0.87632	0.46819	274.230	11.791	0.16799	5012.1
28.0487	0.8761	-0.0167	0.87627	0.47052	274.807	11.812	0.16801	5013.2
27.9116	0.8761	-0.0125	0.87624	0.47287	275.259	11.829	0.16804	5014.0
27.7744	0.8762	-0.0084	0.87621	0.47522	275.586	11.842	0.16805	5014.6
27.6372	0.8762	-0.0042	0.87619	0.47758	275.787	11.849	0.16806	5015.0
27.5000	0.8762	-0.0000	0.87619	0.47997	275.858	11.852	0.16807	5015.1

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=28.7192 ENTROPY=44.7615
 GAMMA (AVG.)=1.1320 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.7192	0.8770	-0.0371	0.87777	0.45902	366.455	12.969	0.15623	5660.2
28.5973	0.8771	-0.0333	0.87769	0.46113	367.916	13.014	0.15628	5662.0
28.4754	0.8771	-0.0296	0.87762	0.46323	369.219	13.055	0.15632	5663.7
28.3534	0.8772	-0.0259	0.87757	0.46532	370.368	13.091	0.15636	5665.1
28.2315	0.8772	-0.0222	0.87751	0.46740	371.365	13.122	0.15639	5666.5
28.1096	0.8773	-0.0185	0.87747	0.46948	372.211	13.148	0.15642	5667.5
27.9877	0.8773	-0.0148	0.87744	0.47156	372.907	13.170	0.15644	5668.5
27.8658	0.8773	-0.0111	0.87741	0.47365	373.452	13.187	0.15646	5669.1
27.7438	0.8774	-0.0074	0.87739	0.47574	373.846	13.199	0.15647	5669.6
27.6219	0.8774	-0.0037	0.87737	0.47785	374.087	13.206	0.15648	5669.9
27.5000	0.8774	0.0000	0.87737	0.47997	374.173	13.209	0.15648	5670.0

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=28.5930 ENTROPY=47.1188
 GAMMA (AVG.)=1.1258 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.5930	0.8780	-0.0333	0.87867	0.46116	478.378	14.380	0.14770	6125.8
28.4837	0.8781	-0.0299	0.87861	0.46305	480.084	14.425	0.14774	6127.4
28.3744	0.8782	-0.0266	0.87856	0.46493	481.607	14.465	0.14778	6129.0
28.2651	0.8782	-0.0233	0.87851	0.46681	482.950	14.501	0.14781	6130.3
28.1558	0.8782	-0.0200	0.87847	0.46868	484.116	14.532	0.14784	6131.4
28.0465	0.8783	-0.0167	0.87843	0.47055	485.104	14.558	0.14786	6132.4
27.9372	0.8783	-0.0133	0.87840	0.47242	485.917	14.580	0.14788	6133.1
27.8279	0.8783	-0.0100	0.87838	0.47429	486.554	14.596	0.14790	6133.7
27.7186	0.8783	-0.0067	0.87837	0.47617	487.014	14.609	0.14791	6134.1
27.6093	0.8783	-0.0033	0.87836	0.47806	487.295	14.616	0.14792	6134.4
27.5000	0.8784	-0.0000	0.87835	0.47996	487.396	14.619	0.14792	6134.5

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.7599 ENTRPHY=31.2957
GAMMA (AVG.)=1.3923 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.7599	0.7686	-0.2507	0.80850	0.37863	4.133	2.551	0.55096	438.0
38.7939	0.7727	-0.2256	0.80492	0.39279	4.226	2.592	0.55556	440.7
37.8079	0.7762	-0.2009	0.80183	0.40658	4.307	2.627	0.55957	443.1
36.8319	0.7794	-0.1764	0.79913	0.42023	4.378	2.658	0.56308	445.2
35.8559	0.7822	-0.1520	0.79680	0.43389	4.440	2.685	0.56613	446.9
34.8800	0.7845	-0.1275	0.79479	0.44772	4.494	2.709	0.56877	448.4
33.9040	0.7864	-0.1027	0.79311	0.46182	4.539	2.728	0.57098	449.7
32.9280	0.7879	-0.0778	0.79175	0.47634	4.576	2.744	0.57277	450.7
31.9520	0.7890	-0.0524	0.79073	0.49138	4.603	2.756	0.57412	451.5
30.9760	0.7896	-0.0265	0.79006	0.50708	4.621	2.763	0.57498	452.0
30.0000	0.7898	-0.0000	0.78980	0.52360	4.627	2.766	0.57530	452.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=36.8728 ENTRPHY=31.6385
GAMMA (AVG.)=1.3810 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8728	0.7999	-0.1853	0.82110	0.41590	6.574	3.238	0.44562	548.8
36.1855	0.8020	-0.1667	0.81915	0.42660	6.690	3.279	0.44786	551.4
35.4982	0.8039	-0.1483	0.81745	0.43708	6.793	3.315	0.44981	553.8
34.8109	0.8055	-0.1301	0.81596	0.44746	6.882	3.347	0.45153	555.8
34.1236	0.8070	-0.1119	0.81467	0.45782	6.961	3.375	0.45301	557.5
33.4364	0.8082	-0.0936	0.81357	0.46824	7.028	3.398	0.45428	559.0
32.7491	0.8092	-0.0753	0.81265	0.47879	7.084	3.418	0.45533	560.2
32.0618	0.8099	-0.0568	0.81191	0.48953	7.129	3.434	0.45618	561.2
31.3745	0.8105	-0.0382	0.81137	0.50053	7.163	3.445	0.45680	561.9
30.6873	0.8108	-0.0192	0.81102	0.51186	7.184	3.453	0.45719	562.4
30.0000	0.8109	0.0000	0.81089	0.52360	7.192	3.455	0.45734	562.5

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=35.4806 ENTRPHY=32.0603
GAMMA (AVG.)=1.3648 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.4806	0.8143	-0.1513	0.82821	0.43555	9.718	3.836	0.38935	684.6
34.9326	0.8156	-0.1361	0.82691	0.44435	9.862	3.878	0.39076	687.3
34.3845	0.8169	-0.1210	0.82577	0.45300	9.990	3.915	0.39199	689.7
33.8364	0.8179	-0.1061	0.82478	0.46158	10.102	3.947	0.39307	691.8
33.2884	0.8189	-0.0912	0.82391	0.47012	10.200	3.975	0.39400	693.5
32.7403	0.8196	-0.0762	0.82318	0.47870	10.283	3.999	0.39480	695.1
32.1922	0.8203	-0.0612	0.82257	0.48735	10.353	4.019	0.39546	696.3
31.6442	0.8208	-0.0462	0.82208	0.49612	10.409	4.034	0.39598	697.3
31.0961	0.8211	-0.0310	0.82172	0.50505	10.449	4.046	0.39636	698.0
30.5480	0.8213	-0.0156	0.82149	0.51420	10.475	4.053	0.39660	698.5
30.0000	0.8214	0.0000	0.82140	0.52360	10.484	4.056	0.39669	698.7

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.6768 ENTRPHY=32.5188
GAMMA (AVG.)=1.3677 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.6768	0.8224	-0.1309	0.83270	0.44740	13.562	4.347	0.35432	843.2
34.2092	0.8234	-0.1177	0.83173	0.45504	13.738	4.389	0.35533	846.0
33.7415	0.8243	-0.1047	0.83087	0.46256	13.895	4.426	0.35622	848.5
33.2738	0.8250	-0.0917	0.83012	0.47002	14.033	4.459	0.35700	850.6
32.8061	0.8257	-0.0788	0.82948	0.47746	14.154	4.487	0.35768	852.5
32.3384	0.8263	-0.0658	0.82893	0.48491	14.256	4.511	0.35825	854.1
31.8707	0.8268	-0.0529	0.82847	0.49241	14.341	4.531	0.35872	855.4
31.4030	0.8271	-0.0398	0.82811	0.50000	14.409	4.547	0.35910	856.5
30.9354	0.8274	-0.0267	0.82784	0.50770	14.459	4.559	0.35937	857.2
30.4677	0.8276	-0.0134	0.82767	0.51556	14.490	4.566	0.35954	857.7
30.0000	0.8276	0.0000	0.82761	0.52360	14.501	4.569	0.35961	857.9

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

FLW PROPERTIES

SHOCK ANGLE=33.7934 ENTRPHY=33.4589
 GAMMA (AVG.)=1.3212 STAG. ENTHALPHY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.7934	0.8310	-0.1078	0.83799	0.46086	23.348	5.162	0.31335	1222.6
33.4140	0.8317	-0.0969	0.83733	0.46717	23.603	5.204	0.31401	1225.8
33.0347	0.8323	-0.0862	0.83675	0.47339	23.829	5.242	0.31459	1228.6
32.6553	0.8328	-0.0755	0.83625	0.47957	24.028	5.275	0.31510	1231.1
32.2760	0.8333	-0.0648	0.83581	0.48572	24.200	5.304	0.31555	1233.3
31.8967	0.8337	-0.0541	0.83543	0.49189	24.348	5.328	0.31592	1235.1
31.5173	0.8340	-0.0434	0.83512	0.49808	24.470	5.348	0.31623	1236.6
31.1380	0.8342	-0.0327	0.83488	0.50432	24.567	5.364	0.31647	1237.8
30.7586	0.8344	-0.0219	0.83470	0.51064	24.637	5.376	0.31665	1238.6
30.3793	0.8345	-0.0110	0.83458	0.51706	24.681	5.383	0.31676	1239.2
30.0000	0.8345	0.0000	0.83454	0.52360	24.697	5.386	0.31680	1239.4

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0178

FLW PROPERTIES

SHOCK ANGLE=33.3268 ENTRPHY=34.3692
 GAMMA (AVG.)=1.3060 STAG. ENTHALPHY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.3268	0.8355	-0.0952	0.84095	0.46816	35.934	5.769	0.29076	1683.6
32.9941	0.8361	-0.0857	0.84044	0.47374	36.281	5.811	0.29127	1687.4
32.6614	0.8365	-0.0762	0.83999	0.47925	36.590	5.849	0.29172	1690.8
32.3288	0.8369	-0.0667	0.83959	0.48472	36.863	5.882	0.29211	1693.7
31.9961	0.8373	-0.0572	0.83924	0.49018	37.099	5.911	0.29245	1696.2
31.6634	0.8376	-0.0478	0.83895	0.49563	37.301	5.936	0.29274	1698.4
31.3307	0.8378	-0.0383	0.83871	0.50111	37.468	5.956	0.29298	1700.2
30.9980	0.8380	-0.0288	0.83852	0.50663	37.599	5.972	0.29317	1701.6
30.6654	0.8382	-0.0193	0.83838	0.51220	37.695	5.984	0.29331	1702.6
30.3327	0.8382	-0.0097	0.83829	0.51785	37.755	5.991	0.29339	1703.2
30.0000	0.8383	0.0000	0.83826	0.52360	37.776	5.994	0.29342	1703.4

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=33.0470 ENTRØPY=35.2234
GAMMA (AVG.)=1.2977 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.0470	0.8382	-0.0876	0.84279	0.47261	51.317	6.223	0.27693	2228.9
32.7423	0.8387	-0.0788	0.84235	0.47774	51.775	6.265	0.27736	2233.5
32.4376	0.8390	-0.0701	0.84197	0.48281	52.182	6.303	0.27774	2237.5
32.1329	0.8394	-0.0614	0.84163	0.48785	52.541	6.337	0.27807	2241.0
31.8282	0.8397	-0.0527	0.84134	0.49288	52.852	6.366	0.27836	2244.0
31.5235	0.8399	-0.0440	0.84109	0.49790	53.118	6.390	0.27860	2246.6
31.2188	0.8401	-0.0352	0.84089	0.50294	53.337	6.411	0.27880	2248.8
30.9141	0.8403	-0.0265	0.84073	0.50802	53.510	6.427	0.27896	2250.4
30.6094	0.8404	-0.0177	0.84061	0.51314	53.636	6.438	0.27908	2251.6
30.3047	0.8405	-0.0089	0.84053	0.51833	53.714	6.445	0.27915	2252.4
30.0000	0.8405	0.0000	0.84051	0.52360	53.742	6.448	0.27918	2252.7

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=32.5554 ENTRØPY=36.1399
GAMMA (AVG.)=1.1241 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
32.5554	0.8429	-0.0743	0.84614	0.48075	69.485	7.241	0.23654	2536.7
32.2990	0.8432	-0.0668	0.84582	0.48467	70.014	7.289	0.23673	2536.9
32.0443	0.8435	-0.0594	0.84554	0.48902	70.483	7.332	0.23689	2540.7
31.7888	0.8437	-0.0519	0.84530	0.49333	70.896	7.371	0.23705	2541.8
31.5332	0.8439	-0.0446	0.84509	0.49762	71.253	7.403	0.23717	2543.3
31.2777	0.8441	-0.0372	0.84491	0.50190	71.557	7.430	0.23728	2544.5
31.0221	0.8442	-0.0298	0.84476	0.50618	71.807	7.453	0.23737	2545.4
30.7666	0.8444	-0.0224	0.84465	0.51048	72.004	7.472	0.23744	2545.8
30.5111	0.8444	-0.0150	0.84456	0.51481	72.147	7.485	0.23749	2546.4
30.2555	0.8445	-0.0075	0.84451	0.51918	72.235	7.492	0.23752	2547.0
30.0000	0.8445	0.0000	0.84449	0.52360	72.266	7.495	0.23752	2547.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=32.1024 ENTRØPY=37.0133
GAMMA (AVG.)=1.1188 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
12.1024	0.8465	-0.0632	0.84890	0.48677	90.493	8.417	0.21750	2764.0
31.9462	0.8468	-0.0569	0.84867	0.49050	91.073	8.465	0.21766	2765.6
31.7299	0.8470	-0.0505	0.84847	0.49420	91.589	8.507	0.21779	2767.2
31.5137	0.8471	-0.0442	0.84829	0.49787	92.043	8.544	0.21791	2768.5
31.2974	0.8473	-0.0379	0.84814	0.50152	92.436	8.576	0.21801	2769.8
31.0812	0.8474	-0.0316	0.84801	0.50516	92.770	8.604	0.21810	2770.6
30.8649	0.8475	-0.0253	0.84791	0.50881	93.045	8.626	0.21817	2771.3
30.6487	0.8476	-0.0190	0.84782	0.51246	93.261	8.643	0.21822	2772.3
30.4325	0.8477	-0.0127	0.84776	0.51614	93.418	8.656	0.21826	2772.5
30.2162	0.8477	-0.0064	0.84772	0.51985	93.514	8.664	0.21828	2772.7
30.0000	0.8477	0.0000	0.84771	0.52360	93.549	8.666	0.21830	2773.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.8885 ENTRØPY=37.8956
GAMMA (AVG.)=1.1368 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.8885	0.8491	-0.0354	0.85088	0.49137	114.302	9.530	0.20517	2987.1
31.6996	0.8492	-0.0499	0.85071	0.49462	114.939	9.576	0.20529	2988.7
31.5108	0.8494	-0.0443	0.85055	0.49785	115.506	9.617	0.20541	2990.5
31.3219	0.8495	-0.0388	0.85042	0.50106	116.005	9.654	0.20551	2991.6
31.1331	0.8497	-0.0333	0.85030	0.50426	116.438	9.684	0.20561	2992.9
30.9442	0.8498	-0.0277	0.85020	0.50745	116.806	9.711	0.20568	2993.8
30.7554	0.8498	-0.0222	0.85012	0.51065	117.109	9.734	0.20575	2994.5
30.5665	0.8499	-0.0167	0.85006	0.51386	117.346	9.751	0.20580	2995.0
30.3777	0.8499	-0.0111	0.85001	0.51708	117.519	9.763	0.20584	2995.6
30.1888	0.8500	-0.0056	0.84998	0.52033	117.624	9.771	0.20585	2995.8
30.0000	0.8500	0.0000	0.84997	0.52361	117.662	9.773	0.20586	2996.2

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.7090 ENTROPY=30.7953
GAMMA (AVG.)=1.1712 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.7090	0.8507	-0.0503	0.85221	0.49439	140.907	10.454	0.19827	3243.0
31.5381	0.8509	-0.0452	0.85207	0.49734	141.614	10.498	0.19839	3245.1
31.3672	0.8510	-0.0402	0.85194	0.50026	142.245	10.539	0.19850	3246.6
31.1963	0.8511	-0.0352	0.85183	0.50316	142.801	10.573	0.19861	3248.3
31.0254	0.8512	-0.0302	0.85173	0.50606	143.283	10.605	0.19868	3249.2
30.8545	0.8513	-0.0252	0.85165	0.50896	143.693	10.630	0.19876	3250.6
30.6836	0.8513	-0.0202	0.85159	0.51186	144.030	10.652	0.19883	3251.3
30.5127	0.8514	-0.0151	0.85153	0.51477	144.295	10.667	0.19886	3252.3
30.3418	0.8514	-0.0101	0.85149	0.51769	144.486	10.680	0.19890	3252.7
30.1709	0.8515	-0.0051	0.85147	0.52063	144.604	10.688	0.19892	3252.8
30.0000	0.8515	0.0000	0.85146	0.52360	144.646	10.690	0.19893	3253.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.6150 ENTROPY=39.7241
GAMMA (AVG.)=1.1215 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6150	0.8516	-0.0476	0.85292	0.49600	170.308	11.023	0.19617	3586.3
31.4535	0.8517	-0.0428	0.85279	0.49877	171.113	11.067	0.19629	3588.5
31.2920	0.8518	-0.0380	0.85268	0.50153	171.832	11.106	0.19640	3590.7
31.1305	0.8519	-0.0333	0.85258	0.50427	172.466	11.138	0.19650	3593.0
30.9690	0.8520	-0.0285	0.85249	0.50701	173.016	11.169	0.19659	3594.2
30.8075	0.8521	-0.0238	0.85242	0.50975	173.484	11.194	0.19666	3595.7
30.6460	0.8521	-0.0191	0.85236	0.51250	173.869	11.215	0.19672	3596.5
30.4845	0.8522	-0.0143	0.85231	0.51525	174.171	11.230	0.19676	3597.8
30.3230	0.8522	-0.0096	0.85227	0.51801	174.389	11.242	0.19680	3598.4
30.1615	0.8522	-0.0048	0.85225	0.52079	174.523	11.249	0.19682	3599.0
30.0000	0.8522	0.0000	0.85225	0.52360	174.571	11.251	0.19683	3599.0

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.6888 ENTROPY=40.8962
GAMMA (AVG.)=1.2234 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6888	0.8509	-0.0497	0.85236	0.49477	202.482	10.576	0.20133	4266.8
31.5199	0.8510	-0.0447	0.85222	0.49766	203.484	10.619	0.20145	4270.1
31.3510	0.8512	-0.0397	0.85210	0.50054	204.379	10.657	0.20154	4273.2
31.1821	0.8513	-0.0348	0.85199	0.50341	205.168	10.691	0.20163	4275.7
31.0133	0.8514	-0.0298	0.85190	0.50627	205.853	10.721	0.20171	4278.1
30.8444	0.8515	-0.0249	0.85182	0.50913	206.435	10.745	0.20177	4280.1
30.6755	0.8515	-0.0199	0.85175	0.51200	206.915	10.766	0.20182	4281.7
30.5066	0.8516	-0.0150	0.85170	0.51487	207.291	10.782	0.20186	4282.8
30.3377	0.8516	-0.0100	0.85166	0.51776	207.563	10.794	0.20189	4283.8
30.1689	0.8516	-0.0050	0.85164	0.52067	207.730	10.801	0.20191	4284.3
30.0000	0.8516	-0.0000	0.85163	0.52360	207.790	10.803	0.20192	4284.5

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.5973 ENTROPY=41.7150
GAMMA (AVG.)=1.1835 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5973	0.8518	-0.0471	0.85305	0.49627	237.466	11.132	0.19269	4697.6
31.4376	0.8519	-0.0423	0.85293	0.49902	238.580	11.176	0.19277	4700.2
31.2779	0.8520	-0.0376	0.85281	0.50175	239.574	11.217	0.19285	4702.5
31.1181	0.8521	-0.0329	0.85272	0.50447	240.450	11.252	0.19291	4704.5
30.9584	0.8522	-0.0282	0.85263	0.50719	241.212	11.283	0.19296	4706.1
30.7987	0.8522	-0.0236	0.85256	0.50990	241.858	11.309	0.19300	4707.6
30.6389	0.8523	-0.0189	0.85250	0.51261	242.390	11.331	0.19304	4708.8
30.4792	0.8523	-0.0142	0.85246	0.51534	242.807	11.347	0.19307	4709.8
30.3195	0.8524	-0.0095	0.85242	0.51807	243.109	11.360	0.19309	4710.4
30.1597	0.8524	-0.0047	0.85240	0.52082	243.294	11.367	0.19310	4710.9
30.0000	0.8524	-0.0000	0.85239	0.52360	243.361	11.370	0.19311	4711.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.5144 ENTRPHY=42.6460
GAMMA (AVG.)=1.1603 STAG. ENTHALPHY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
31.5144	0.8525	-0.0447	0.85368	0.49765	275.253	11.695	0.18585	5053.1
31.3629	0.8526	-0.0402	0.85357	0.50026	276.478	11.740	0.18593	5055.3
31.2115	0.8527	-0.0357	0.85347	0.50286	277.571	11.781	0.18599	5057.3
31.0601	0.8528	-0.0313	0.85338	0.50544	278.595	11.816	0.18604	5059.2
30.9086	0.8529	-0.0268	0.85330	0.50802	279.572	11.847	0.18609	5060.8
30.7572	0.8529	-0.0224	0.85324	0.51060	280.082	11.873	0.18613	5062.1
30.6057	0.8530	-0.0179	0.85316	0.51317	280.667	11.895	0.18617	5063.0
30.4543	0.8530	-0.0135	0.85314	0.51576	281.125	11.912	0.18619	5063.9
30.3028	0.8531	-0.0090	0.85311	0.51836	281.456	11.924	0.18621	5064.6
30.1514	0.8531	-0.0045	0.85309	0.52097	281.660	11.932	0.18622	5064.9
30.0000	0.8531	-0.0000	0.85309	0.52360	281.732	11.934	0.18623	5065.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.4384 ENTRPHY=43.6149
GAMMA (AVG.)=1.1441 STAG. ENTHALPHY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
31.4384	0.8532	-0.0425	0.85426	0.49892	315.843	12.269	0.17995	5361.0
31.2966	0.8533	-0.0382	0.85416	0.50141	317.178	12.315	0.18002	5363.2
31.1507	0.8534	-0.0340	0.85407	0.50387	318.370	12.355	0.18007	5365.0
31.0059	0.8535	-0.0297	0.85399	0.50633	319.421	12.391	0.18013	5366.7
30.8631	0.8535	-0.0255	0.85392	0.50879	320.333	12.422	0.18017	5368.1
30.7192	0.8536	-0.0213	0.85386	0.51124	321.107	12.448	0.18021	5369.2
30.5754	0.8536	-0.0170	0.85381	0.51369	321.744	12.470	0.18024	5370.1
30.4315	0.8537	-0.0128	0.85377	0.51615	322.243	12.487	0.18026	5370.8
30.2877	0.8537	-0.0085	0.85375	0.51862	322.604	12.499	0.18028	5371.5
30.1438	0.8537	-0.0043	0.85373	0.52110	322.825	12.507	0.18029	5371.8
30.0000	0.8537	-0.0000	0.85372	0.52360	322.904	12.510	0.18029	5371.9

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.-27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.2699 ENTROPY=46.1167
 GAMMA (AVG.)=1.1258 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.2699	0.8547	-0.0376	0.85556	0.50176	429.580	13.793	0.16791	5945.4
31.1429	0.8548	-0.0339	0.85548	0.50396	431.182	13.838	0.16797	5947.2
31.0160	0.8549	-0.0301	0.85541	0.50615	432.612	13.879	0.16801	5948.7
30.8890	0.8549	-0.0263	0.85535	0.50832	433.873	13.914	0.16805	5950.2
30.7620	0.8550	-0.0226	0.85529	0.51050	434.967	13.945	0.16809	5951.3
30.6350	0.8550	-0.0188	0.85525	0.51267	435.895	13.972	0.16812	5952.3
30.5080	0.8551	-0.0151	0.85521	0.51484	436.659	13.994	0.16814	5953.0
30.3810	0.8551	-0.0113	0.85518	0.51702	437.257	14.010	0.16816	5953.8
30.2540	0.8551	-0.0076	0.85516	0.51920	437.689	14.023	0.16818	5954.0
30.1270	0.8551	-0.0038	0.85514	0.52139	437.953	14.031	0.16819	5954.3
30.0000	0.8551	0.0000	0.85514	0.52360	438.047	14.033	0.16819	5954.5

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.-27 DEG. K
 VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=31.1426 ENTROPY=48.7390
 GAMMA (AVG.)=1.1318 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.1426	0.8559	-0.0339	0.85655	0.50302	560.821	15.245	0.15985	6394.0
31.0283	0.8559	-0.0305	0.85649	0.50590	562.699	15.289	0.15989	6395.6
30.9141	0.8560	-0.0271	0.85643	0.50787	564.376	15.329	0.15994	6397.1
30.7998	0.8561	-0.0237	0.85638	0.50983	565.855	15.365	0.15997	6398.3
30.6856	0.8561	-0.0204	0.85634	0.51179	567.139	15.395	0.16001	6399.5
30.5713	0.8561	-0.0170	0.85630	0.51375	568.228	15.421	0.16003	6400.5
30.4570	0.8562	-0.0136	0.85627	0.51571	569.123	15.443	0.16005	6401.3
30.3428	0.8562	-0.0102	0.85625	0.51767	569.825	15.459	0.16007	6401.9
30.2285	0.8562	-0.0068	0.85623	0.51963	570.331	15.472	0.16008	6402.3
30.1142	0.8562	-0.0034	0.85622	0.52161	570.640	15.479	0.16009	6402.7
30.0000	0.8562	0.0000	0.85621	0.52360	570.751	15.482	0.16010	6402.7

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.5493 ENTROPY=31.3660
GAMMA (AVG.)=1.3902 STAG. ENTHALPY=8.1820E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	IK1
42.5493	0.7366	-0.2488	0.77747	0.41692	4.642	2.718	0.59253	461.6	
41.5444	0.7407	-0.2239	0.77381	0.43152	4.739	2.759	0.59762	464.3	
40.5394	0.7444	-0.1994	0.77062	0.44580	4.825	2.795	0.60209	466.6	
39.5345	0.7476	-0.1751	0.76784	0.45997	4.900	2.826	0.60601	468.7	
38.5296	0.7504	-0.1508	0.76542	0.47419	4.965	2.853	0.60943	470.4	
37.5246	0.7528	-0.1264	0.76335	0.48858	5.022	2.876	0.61238	471.9	
36.5197	0.7548	-0.1019	0.76161	0.50325	5.069	2.896	0.61486	473.1	
35.5148	0.7563	-0.0770	0.76021	0.51834	5.108	2.912	0.61687	474.1	
34.5099	0.7574	-0.0519	0.75916	0.53394	5.136	2.923	0.61837	474.9	
33.5049	0.7580	-0.0262	0.75848	0.55019	5.155	2.931	0.61933	475.4	
32.5000	0.7582	0.0000	0.75821	0.56723	5.162	2.934	0.61969	475.5	

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.6391 ENTROPY=31.7612
GAMMA (AVG.)=1.3764 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6391	0.7700	-0.1860	0.79216	0.45487	7.459	3.430	0.47976	587.7
38.9252	0.7722	-0.1673	0.79012	0.46599	7.583	3.472	0.48221	590.3
38.2113	0.7741	-0.1489	0.78833	0.47692	7.692	3.508	0.48437	592.7
37.4974	0.7759	-0.1305	0.78677	0.48776	7.789	3.540	0.48626	594.7
36.7835	0.7774	-0.1122	0.78542	0.49859	7.872	3.568	0.48789	596.4
36.0696	0.7786	-0.0939	0.78426	0.50949	7.944	3.591	0.48930	597.9
35.3556	0.7796	-0.0755	0.78330	0.52051	8.004	3.611	0.49046	599.1
34.6417	0.7805	-0.0570	0.78253	0.53174	8.052	3.627	0.49139	600.1
33.9278	0.7810	-0.0382	0.78196	0.54322	8.088	3.638	0.49208	600.8
33.2139	0.7814	-0.0193	0.78160	0.55503	8.110	3.646	0.49251	601.3
32.5000	0.7815	0.0000	0.78145	0.56723	8.119	3.648	0.49267	601.5

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NØ= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=38.2407 ENTRØPY=32.2311
GAMMA (AVG.)=1.3582 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.2407	0.7854	-0.1532	0.80019	0.47473	11.089	4.039	0.42030	742.0
37.6666	0.7868	-0.1379	0.79881	0.48396	11.245	4.081	0.42184	744.8
37.0925	0.7881	-0.1226	0.79760	0.49304	11.383	4.118	0.42320	747.2
36.5184	0.7893	-0.1075	0.79653	0.50205	11.505	4.150	0.42439	749.3
35.9444	0.7902	-0.0923	0.79561	0.51105	11.611	4.178	0.42543	751.1
35.3703	0.7911	-0.0772	0.79483	0.52007	11.701	4.202	0.42630	752.6
34.7962	0.7918	-0.0620	0.79418	0.52917	11.777	4.222	0.42703	753.9
34.2222	0.7923	-0.0467	0.79366	0.53839	11.837	4.238	0.42761	754.9
33.6481	0.7927	-0.0313	0.79328	0.54778	11.881	4.249	0.42803	755.7
33.0740	0.7929	-0.0158	0.79304	0.55738	11.908	4.257	0.42830	756.1
32.5000	0.7929	0.0000	0.79294	0.56724	11.918	4.259	0.42840	756.3

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NØ= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=37.4301 ENTRØPY=32.7311
GAMMA (AVG.)=1.3407 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
37.4301	0.7941	-0.1335	0.80521	0.48673	15.529	4.553	0.38349	921.8
36.9371	0.7952	-0.1201	0.80417	0.49479	15.722	4.595	0.38461	924.7
36.4441	0.7961	-0.1068	0.80324	0.50274	15.893	4.633	0.38559	927.3
35.9510	0.7970	-0.0935	0.80244	0.51062	16.044	4.665	0.38646	929.5
35.4580	0.7977	-0.0803	0.80174	0.51848	16.175	4.694	0.38721	931.4
34.9650	0.7983	-0.0671	0.80114	0.52636	16.287	4.718	0.38784	933.0
34.4720	0.7988	-0.0539	0.80065	0.53430	16.380	4.738	0.38837	934.4
33.9790	0.7992	-0.0406	0.80026	0.54232	16.454	4.754	0.38879	935.5
33.4860	0.7995	-0.0272	0.79997	0.55046	16.508	4.765	0.38909	936.2
32.9930	0.7997	-0.0137	0.79979	0.55875	16.541	4.773	0.38928	935.7
32.5000	0.7997	0.0000	0.79972	0.56723	16.553	4.775	0.38935	936.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLW PROPERTIES

SHOCK ANGLE=36.5365 ENTRØPY=33.7373
GAMMA (AVG.)=1.3157 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.5365	0.8035	-0.1110	0.81110	0.50039	26.835	5.363	0.34079	1352.4
36.1328	0.8042	-0.0999	0.81038	0.50710	27.115	5.405	0.34153	1355.8
35.7292	0.8049	-0.0888	0.80974	0.51373	27.365	5.443	0.34219	1358.8
35.3255	0.8054	-0.0778	0.80918	0.52031	27.584	5.476	0.34276	1361.4
34.9219	0.8059	-0.0667	0.80870	0.52687	27.775	5.505	0.34325	1363.6
34.5182	0.8064	-0.0557	0.80828	0.53344	27.938	5.530	0.34367	1365.5
34.1146	0.8067	-0.0447	0.80794	0.54004	28.073	5.550	0.34402	1367.1
33.7109	0.8070	-0.0336	0.80767	0.54669	28.179	5.566	0.34429	1368.4
33.3073	0.8072	-0.0225	0.80748	0.55343	28.257	5.578	0.34449	1369.3
32.9036	0.8073	-0.0113	0.80735	0.56027	28.305	5.585	0.34462	1369.8
32.5000	0.8073	-0.0000	0.80731	0.56723	28.323	5.587	0.34466	1370.0

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRØPY=31.0178

FLW PROPERTIES

SHOCK ANGLE=36.0662 ENTRØPY=34.6965
GAMMA (AVG.)=1.3023 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.0662	0.8083	-0.0989	0.81435	0.50777	41.374	5.954	0.31753	1878.0
35.7096	0.8089	-0.0889	0.81378	0.51374	41.760	5.997	0.31810	1882.1
35.3530	0.8094	-0.0791	0.81328	0.51965	42.104	6.035	0.31861	1885.6
34.9964	0.8099	-0.0692	0.81283	0.52552	42.407	6.068	0.31906	1888.8
34.6397	0.8103	-0.0594	0.81245	0.53137	42.671	6.097	0.31945	1891.5
34.2831	0.8106	-0.0496	0.81212	0.53722	42.895	6.122	0.31977	1893.8
33.9265	0.8109	-0.0398	0.81185	0.54310	43.080	6.142	0.32004	1895.7
33.5699	0.8111	-0.0299	0.81164	0.54902	43.227	6.158	0.32026	1897.2
33.2132	0.8112	-0.0200	0.81148	0.55501	43.334	6.170	0.32041	1898.3
32.8566	0.8113	-0.0101	0.81139	0.56107	43.400	6.177	0.32051	1899.0
32.5000	0.8114	-0.0000	0.81135	0.56723	43.424	6.180	0.32054	1899.2

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=17.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRBPY=31.0178

FLW PROPRTIES

SHOCK ANGLE=35.6435 ENTRBPY=35.6500
GAMMA (AVG.)=1.1819 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
35.6435	0.8127	-0.0880	0.81741	0.51417	59.117	6.618	0.27888	2399.0
35.3292	0.8131	-0.0792	0.81695	0.51957	59.615	6.666	0.27915	2401.4
35.0148	0.8135	-0.0703	0.81655	0.52489	60.058	6.708	0.27939	2403.7
34.7005	0.8139	-0.0615	0.81619	0.53016	60.446	6.745	0.27961	2405.8
34.3861	0.8142	-0.0528	0.81589	0.53540	60.783	6.778	0.27980	2407.3
34.0717	0.8144	-0.0440	0.81563	0.54063	61.069	6.805	0.27995	2408.7
33.7574	0.8147	-0.0353	0.81542	0.54581	61.305	6.828	0.28007	2409.7
33.4430	0.8148	-0.0265	0.81525	0.55113	61.490	6.846	0.28016	2410.5
33.1287	0.8149	-0.0177	0.81513	0.55644	61.625	6.859	0.28025	2411.2
32.8143	0.8150	-0.0089	0.81505	0.56180	61.708	6.866	0.28029	2411.6
32.5000	0.8150	0.0000	0.81502	0.56724	61.738	6.869	0.28031	2411.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRBPY=31.0178

FLW PROPRTIES

SHOCK ANGLE=35.0880 ENTRBPY=36.5964
GAMMA (AVG.)=1.1183 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
35.0880	0.8183	-0.0731	0.82153	0.52326	80.135	7.860	0.25075	2657.4
34.8292	0.8186	-0.0658	0.82121	0.52772	80.690	7.903	0.25094	2659.3
34.5704	0.8189	-0.0584	0.82094	0.53213	81.184	7.950	0.25113	2661.0
34.3116	0.8191	-0.0511	0.82069	0.53651	81.618	7.987	0.25128	2662.5
34.0528	0.8193	-0.0439	0.82048	0.54086	81.994	8.020	0.25142	2663.4
33.7940	0.8195	-0.0366	0.82030	0.54521	82.313	8.047	0.25153	2664.6
33.5352	0.8196	-0.0293	0.82016	0.54956	82.576	8.070	0.25162	2665.5
33.2764	0.8197	-0.0220	0.82004	0.55392	82.783	8.088	0.25170	2666.2
33.0176	0.8198	-0.0147	0.81996	0.55832	82.933	8.100	0.25176	2666.7
32.7588	0.8199	-0.0074	0.81990	0.56275	83.025	8.109	0.25179	2666.8
32.5000	0.8199	0.0000	0.81988	0.56723	83.058	8.111	0.25180	2667.0

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=L.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.7019 ENTRPHY=37.5392
GAMMA (AVG.)=1.1271 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=L.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.4482 ENTRPHY=38.4980
GAMMA (AVG.)=1.1586 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.7019	0.8221	-0.0626	0.82450	0.52968	104.391	9.097	0.23246	2895.9	34.4482	0.8246	-0.0556	0.82651	0.53396	131.882	10.180	0.22186	3152.9
34.4817	0.8223	-0.0563	0.82427	0.53348	105.004	9.143	0.23262	2897.8	34.2533	0.8248	-0.0500	0.82633	0.53731	132.564	10.225	0.22201	3154.8
34.2615	0.8225	-0.0500	0.82407	0.53724	105.550	9.186	0.23277	2898.9	34.0585	0.8250	-0.0444	0.82617	0.54064	133.172	10.266	0.22214	3156.3
34.0413	0.8227	-0.0438	0.82389	0.54098	106.030	9.222	0.23291	2900.5	33.8637	0.8251	-0.0389	0.82603	0.54395	133.707	10.302	0.22226	3157.7
33.8211	0.8229	-0.0375	0.82374	0.54470	106.466	9.253	0.23302	2901.6	33.6689	0.8252	-0.0333	0.82591	0.54725	134.172	10.333	0.22237	3158.9
33.6009	0.8230	-0.0313	0.82361	0.54842	106.800	9.281	0.23311	2902.4	33.4741	0.8253	-0.0278	0.82580	0.55055	134.567	10.359	0.22244	3160.0
33.3807	0.8231	-0.0251	0.82350	0.55214	107.091	9.302	0.23320	2903.4	33.2792	0.8254	-0.0223	0.82572	0.55385	134.892	10.380	0.22253	3160.9
33.1606	0.8232	-0.0188	0.82341	0.55587	107.319	9.320	0.23327	2904.0	33.0844	0.8255	-0.0167	0.82565	0.55717	135.147	10.397	0.22257	3161.5
32.9404	0.8233	-0.0126	0.82335	0.55963	107.485	9.333	0.23330	2904.2	32.8896	0.8255	-0.0112	0.82560	0.56049	135.331	10.409	0.22261	3162.0
32.7202	0.8233	-0.0063	0.82332	0.56341	107.587	9.341	0.23333	2904.5	32.6948	0.8256	-0.0056	0.82557	0.56385	135.445	10.417	0.22264	3162.3
32.5000	0.8233	-0.0000	0.82330	0.56723	107.623	9.343	0.23334	2904.8	32.5000	0.8256	-0.0000	0.82556	0.56723	135.485	10.419	0.22266	3162.5

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=34.3057 ENTRØPY=39.4854
GAMMA (AVG.)=1.2022 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.3057	0.8260	-0.0516	0.82765	0.53637	162.603	10.925	0.21765	3486.7
34.1251	0.8262	-0.0464	0.82750	0.53947	163.380	10.969	0.21779	3488.7
33.9445	0.8263	-0.0413	0.82736	0.54256	164.072	11.008	0.21792	3490.9
33.7640	0.8264	-0.0361	0.82724	0.54563	164.683	11.042	0.21803	3492.6
33.5834	0.8266	-0.0310	0.82713	0.54869	165.214	11.072	0.21814	3494.1
33.4028	0.8266	-0.0258	0.82705	0.55175	165.665	11.097	0.21822	3495.2
33.2222	0.8267	-0.0207	0.82697	0.55482	166.036	11.117	0.21830	3496.7
33.0417	0.8268	-0.0155	0.82691	0.55789	166.327	11.134	0.21834	3497.3
32.8611	0.8268	-0.0104	0.82687	0.56098	166.537	11.147	0.21838	3497.7
32.6805	0.8268	-0.0052	0.82685	0.56409	166.667	11.153	0.21841	3498.4
32.5000	0.8268	-0.0000	0.82684	0.56723	166.713	11.156	0.21842	3498.2

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NØ.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=34.3615 ENTRØPY=40.7021
GAMMA (AVG.)=1.2271 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.3615	0.8255	-0.0531	0.82720	0.53547	196.543	10.626	0.22311	4145.0
34.1753	0.8257	-0.0478	0.82704	0.53866	197.510	10.667	0.22326	4149.0
33.9892	0.8258	-0.0425	0.82689	0.54183	198.373	10.704	0.22340	4152.3
33.8030	0.8259	-0.0372	0.82676	0.54498	199.135	10.737	0.22351	4155.1
33.6169	0.8260	-0.0319	0.82665	0.54814	199.796	10.765	0.22361	4157.6
33.4307	0.8261	-0.0266	0.82656	0.55129	200.358	10.789	0.22370	4159.9
33.2446	0.8262	-0.0213	0.82648	0.55444	200.820	10.809	0.22377	4161.5
33.0584	0.8263	-0.0160	0.82642	0.55761	201.183	10.824	0.22383	4162.8
32.8723	0.8263	-0.0107	0.82638	0.56080	201.446	10.835	0.22387	4163.9
32.6861	0.8263	-0.0054	0.82635	0.56400	201.607	10.842	0.22389	4164.5
32.5000	0.8263	0.0000	0.82634	0.56723	201.665	10.844	0.22390	4164.9

CONF SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 486.49 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.1794 ENTROPY=42.6180

GAMMA (AVG.)=1.1608 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

CONF SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=34.2802 ENTROPY=41.6263

GAMMA (AVG.)=1.1608 STAG. ENTHALPY=3.3942E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.1794	0.8273	-0.0481	0.82868	0.53846	274.112	11.678	0.20623	5043.6
34.0115	0.8274	-0.0433	0.82854	0.54136	275.334	11.724	0.20631	5045.8
33.8435	0.8275	-0.0385	0.82843	0.54423	276.424	11.764	0.20639	5047.9
33.6756	0.8276	-0.0337	0.82832	0.54710	277.385	11.799	0.20646	5049.7
33.5077	0.8277	-0.0289	0.82823	0.54996	278.220	11.830	0.20652	5051.2
33.3397	0.8278	-0.0241	0.82815	0.55281	278.928	11.857	0.20656	5052.6
33.1718	0.8279	-0.0193	0.82809	0.55567	279.511	11.878	0.20661	5053.6
33.0038	0.8279	-0.0145	0.82804	0.55854	279.968	11.895	0.20664	5054.6
32.8359	0.8279	-0.0097	0.82800	0.56141	280.299	11.907	0.20666	5055.1
32.6679	0.8280	-0.0048	0.82798	0.56431	280.501	11.915	0.20667	5055.4
32.5000	0.8280	-0.0000	0.82797	0.56723	280.574	11.918	0.20668	5055.6

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRAPPY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=34.088A ENTRAPPY=43.6593
GAMMA (AVG.)=1.1435 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.0888	0.8282	-0.0456	0.82942	0.53998	317.754	12.206	0.19914	5373.6
13.9209	0.8283	-0.0410	0.82930	0.54272	319.094	12.342	0.19922	5375.7
13.7711	0.8284	-0.0364	0.82919	0.54545	320.291	12.382	0.19929	5377.8
13.6122	0.8285	-0.0319	0.82910	0.54816	321.346	12.418	0.19935	5379.2
13.4533	0.8286	-0.0274	0.82902	0.55087	322.261	12.450	0.19940	5380.6
13.2944	0.8286	-0.0228	0.82895	0.55358	323.038	12.476	0.19945	5381.8
13.1355	0.8287	-0.0183	0.82889	0.55629	323.677	12.497	0.19948	5382.8
12.9766	0.8287	-0.0137	0.82885	0.55900	324.178	12.514	0.19951	5383.6
12.8178	0.8288	-0.0092	0.82882	0.56173	324.540	12.526	0.19953	5384.2
12.6589	0.8288	-0.0046	0.82880	0.56447	324.762	12.534	0.19954	5384.4
12.5000	0.8288	-0.0000	0.82879	0.56723	324.861	12.537	0.19955	5384.5

CBME SEMI-ANGLE=32.5
FREE STREAM CONDITIONS
MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRAPPY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=34.0038 ENTRAPPY=44.7211
GAMMA (AVG.)=1.1323 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
34.0038	0.8290	-0.0432	0.83012	0.54141	365.631	12.944	0.19287	5650.6
33.8535	0.8291	-0.0389	0.83002	0.54401	366.087	12.989	0.19294	5652.6
33.7031	0.8292	-0.0345	0.82992	0.54659	367.386	13.030	0.19300	5654.3
33.5527	0.8293	-0.0302	0.82984	0.54917	368.532	13.066	0.19305	5655.7
33.4023	0.8294	-0.0259	0.82976	0.55173	369.526	13.097	0.19310	5656.9
33.2519	0.8294	-0.0216	0.82970	0.55430	370.370	13.123	0.19314	5658.1
33.1015	0.8295	-0.0173	0.82965	0.55687	371.064	13.145	0.19317	5659.0
32.9511	0.8295	-0.0130	0.82961	0.55944	371.607	13.162	0.19320	5659.6
32.8007	0.8295	-0.0087	0.82958	0.56202	372.000	13.174	0.19321	5660.1
32.6503	0.8296	-0.0043	0.82956	0.56462	372.241	13.182	0.19323	5660.5
32.5000	0.8296	0.0000	0.82955	0.56723	372.327	13.185	0.19323	5660.6

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=33.8252 ENTROPY=47.4721
GAMMA (AVG.)=1.1266 STAG. ENTHALPY=7.1890E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.8252	0.8307	-0.0382	0.83162	0.54443	495.978	14.579	0.18074	6185.5
33.6927	0.8308	-0.0344	0.83153	0.54672	497.720	14.623	0.18080	6187.1
33.5602	0.8309	-0.0305	0.83146	0.54901	499.276	14.664	0.18085	6188.6
33.4276	0.8310	-0.0267	0.83139	0.55128	500.649	14.699	0.18090	6189.9
33.2951	0.8310	-0.0229	0.83133	0.55355	501.839	14.730	0.18094	6191.0
33.1626	0.8311	-0.0191	0.83128	0.55582	502.849	14.757	0.18097	6192.0
33.0301	0.8311	-0.0153	0.83124	0.55808	503.680	14.778	0.18100	6192.8
32.8976	0.8311	-0.0115	0.83121	0.56036	504.330	14.795	0.18102	6193.2
32.7650	0.8312	-0.0077	0.83119	0.56264	504.800	14.807	0.18104	6193.8
32.6325	0.8312	-0.0038	0.83118	0.56493	505.087	14.815	0.18104	6194.0
32.5000	0.8312	0.0000	0.83117	0.56723	505.190	14.817	0.18105	6194.2

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=33.7054 ENTROPY=50.3587
GAMMA (AVG.)=1.1422 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.7054	0.8319	-0.0348	0.83263	0.54647	647.537	15.950	0.17366	6673.1
33.5848	0.8320	-0.0313	0.83256	0.54856	649.602	15.995	0.17372	6674.9
33.4643	0.8320	-0.0278	0.83250	0.55064	651.447	16.034	0.17376	6676.6
33.3437	0.8321	-0.0243	0.83244	0.55271	653.075	16.069	0.17381	6678.0
33.2232	0.8321	-0.0209	0.83239	0.55477	654.488	16.100	0.17384	6679.1
33.1027	0.8322	-0.0174	0.83235	0.55684	655.686	16.126	0.17387	6680.1
32.9821	0.8322	-0.0139	0.83232	0.55890	656.671	16.147	0.17390	6681.1
32.8616	0.8322	-0.0105	0.83229	0.56097	657.443	16.164	0.17392	6681.6
32.7410	0.8322	-0.0070	0.83228	0.56305	658.000	16.176	0.17393	6682.0
32.6205	0.8323	-0.0035	0.83226	0.56514	658.340	16.183	0.17394	6682.4
32.5000	0.8323	0.0000	0.83226	0.56723	658.442	16.186	0.17395	6682.5

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=45.4494 ENTRPHY=31.4411
GAMMA (AVG.)=1.3878 STAG. ENTHALPY=8.1829E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4494	0.7014	-0.2476	0.74385	0.45394	5.175	2.878	0.64157	486.0
44.4044	0.7057	-0.2229	0.74005	0.46907	5.278	2.919	0.64738	488.7
43.3595	0.7095	-0.1985	0.73673	0.48395	5.368	2.955	0.65250	491.0
42.3146	0.7128	-0.1743	0.73383	0.49875	5.447	2.986	0.65702	493.0
41.2696	0.7158	-0.1501	0.73131	0.51362	5.516	3.013	0.66097	494.8
40.2247	0.7182	-0.1258	0.72915	0.52869	5.575	3.037	0.66437	496.2
39.1797	0.7202	-0.1013	0.72734	0.54406	5.625	3.056	0.66724	497.5
38.1348	0.7218	-0.0766	0.72588	0.55984	5.666	3.072	0.66956	498.5
37.0898	0.7229	-0.0515	0.72479	0.57616	5.696	3.084	0.67129	499.2
36.0449	0.7236	-0.0260	0.72408	0.59312	5.715	3.091	0.67239	499.7
35.0000	0.7238	0.0000	0.72380	0.61087	5.722	3.094	0.67281	499.8

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.4740 ENTRPHY=31.8863
GAMMA (AVG.)=1.3716 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.4740	0.7375	-0.1871	0.76088	0.49292	8.384	3.610	0.51875	627.8
41.7266	0.7398	-0.1683	0.75873	0.50455	8.516	3.651	0.52151	630.4
40.9792	0.7419	-0.1498	0.75684	0.51601	8.633	3.687	0.52394	632.8
40.2318	0.7437	-0.1313	0.75519	0.52739	8.736	3.719	0.52607	634.8
39.4844	0.7452	-0.1129	0.75375	0.53877	8.825	3.747	0.52793	636.6
38.7370	0.7466	-0.0945	0.75253	0.55023	8.902	3.771	0.52951	638.1
37.9896	0.7477	-0.0759	0.75151	0.56182	8.966	3.791	0.53083	639.3
37.2422	0.7485	-0.0573	0.75070	0.57362	9.017	3.806	0.53188	640.3
36.4948	0.7491	-0.0384	0.75010	0.58568	9.055	3.818	0.53266	641.0
35.7474	0.7495	-0.0194	0.74971	0.59807	9.079	3.825	0.53315	641.5
35.0000	0.7496	0.0000	0.74956	0.61087	9.088	3.828	0.53333	641.6

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.0497 ENTROPY=32.4008
GAMMA (AVG.)=1.3519 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.0497	0.7541	-0.1554	0.76995	0.51320	12.522	4.225	0.45510	801.0
40.4448	0.7556	-0.1398	0.76847	0.52292	12.690	4.267	0.45684	803.8
39.8398	0.7570	-0.1244	0.76717	0.53250	12.839	4.304	0.45837	806.2
39.2348	0.7582	-0.1090	0.76603	0.54201	12.970	4.337	0.45971	808.4
38.6298	0.7593	-0.0936	0.76505	0.55152	13.084	4.365	0.46087	810.2
38.0249	0.7602	-0.0783	0.76420	0.56105	13.182	4.389	0.46187	811.8
37.4199	0.7609	-0.0629	0.76351	0.57068	13.263	4.409	0.46269	813.1
36.8149	0.7615	-0.0474	0.76295	0.58042	13.327	4.425	0.46334	814.1
36.2099	0.7619	-0.0317	0.76254	0.59034	13.375	4.436	0.46382	814.8
35.6050	0.7621	-0.0160	0.76228	0.60047	13.404	4.443	0.46412	815.3
35.0000	0.7622	-0.0000	0.76218	0.61086	13.415	4.446	0.46423	815.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=40.2227 ENTROPY=32.9388
GAMMA (AVG.)=1.3344 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2227	0.7635	-0.1362	0.77557	0.52548	17.584	4.741	0.41603	1002.5
39.7005	0.7647	-0.1225	0.77444	0.53401	17.793	4.783	0.41729	1005.4
39.1782	0.7657	-0.1090	0.77344	0.54243	17.979	4.820	0.41841	1008.1
38.6559	0.7666	-0.0955	0.77256	0.55079	18.142	4.853	0.41938	1010.4
38.1336	0.7674	-0.0820	0.77181	0.55913	18.285	4.882	0.42023	1012.3
37.6114	0.7681	-0.0685	0.77116	0.56750	18.406	4.906	0.42095	1014.0
37.0891	0.7687	-0.0550	0.77063	0.57593	18.507	4.926	0.42155	1015.4
36.5668	0.7691	-0.0414	0.77020	0.58444	18.587	4.942	0.42202	1016.5
36.0445	0.7694	-0.0277	0.76989	0.59308	18.645	4.954	0.42236	1017.3
35.5223	0.7696	-0.0139	0.76970	0.60187	18.682	4.961	0.42258	1017.8
35.0000	0.7696	0.0000	0.76962	0.61087	18.695	4.964	0.42265	1018.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.3110 ENTROPY=34.0046
GAMMA (AVG.)=1.3111 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.7100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=38.8337 ENTROPY=35.0072
GAMMA (AVG.)=1.2994 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.3110	0.7737	-0.1143	0.78210	0.53944	30.474	5.543	0.37117	1486.0	38.8337	0.7790	-0.1025	0.78568	0.54693	47.049	6.117	0.34702	2078.9
38.8799	0.7745	-0.1028	0.78131	0.54659	30.781	5.585	0.37201	1483.5	38.4504	0.7796	-0.0922	0.78504	0.55334	47.476	6.160	0.34769	2083.2
38.4488	0.7752	-0.0914	0.78061	0.55367	31.054	5.623	0.37275	1492.6	38.0670	0.7802	-0.0820	0.78448	0.55969	47.856	6.197	0.34827	2087.0
38.0177	0.7759	-0.0801	0.77999	0.56070	31.295	5.656	0.37341	1495.4	37.6836	0.7807	-0.0718	0.78398	0.56600	48.191	6.231	0.34878	2090.4
37.5866	0.7764	-0.0687	0.77946	0.56772	31.504	5.685	0.37397	1497.7	37.3002	0.7811	-0.0616	0.78355	0.57229	48.482	6.260	0.34923	2093.3
37.1555	0.7769	-0.0574	0.77901	0.57474	31.683	5.710	0.37445	1499.8	36.9169	0.7815	-0.0514	0.78319	0.57859	48.730	6.284	0.34961	2095.8
36.7244	0.7773	-0.0460	0.77863	0.58180	31.830	5.730	0.37485	1501.4	36.5335	0.7818	-0.0413	0.78289	0.58491	48.935	6.305	0.34991	2097.8
36.2933	0.7776	-0.0346	0.77834	0.58892	31.947	5.746	0.37516	1502.7	36.1501	0.7820	-0.0310	0.78265	0.59128	49.096	6.321	0.35016	2099.4
35.8622	0.7778	-0.0232	0.77812	0.59612	32.032	5.758	0.37539	1503.7	35.7667	0.7822	-0.0208	0.78248	0.59772	49.214	6.332	0.35034	2100.5
35.4311	0.7779	-0.0116	0.77798	0.60342	32.085	5.765	0.37553	1504.3	35.3834	0.7823	-0.0104	0.78237	0.60424	49.287	6.340	0.35045	2101.3
35.0000	0.7779	0.0000	0.77793	0.61087	32.104	5.767	0.37558	1504.5	35.0000	0.7823	0.0000	0.78233	0.61087	49.313	6.342	0.35049	2101.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=38.2094 ENTRPHY=36.0411
GAMMA (AVG.)=1.1265 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.2094	0.7857	-0.0870	0.79055	0.55656	67.277	7.107	0.29522	2510.4
37.8885	0.7862	-0.0783	0.79009	0.56207	67.800	7.155	0.29551	2512.5
37.5675	0.7866	-0.0695	0.78968	0.56752	68.264	7.198	0.29579	2514.2
37.2466	0.7870	-0.0608	0.78932	0.57291	68.672	7.237	0.29601	2515.5
36.9257	0.7873	-0.0522	0.78902	0.57828	69.026	7.269	0.29620	2516.8
36.6047	0.7876	-0.0435	0.78875	0.58364	69.326	7.297	0.29638	2517.9
36.2838	0.7878	-0.0349	0.78854	0.58900	69.574	7.320	0.29652	2518.8
35.9628	0.7879	-0.0262	0.78837	0.59439	69.768	7.337	0.29662	2519.7
35.6419	0.7880	-0.0175	0.78824	0.59982	69.910	7.351	0.29671	2520.1
35.3209	0.7881	-0.0088	0.78817	0.60531	69.997	7.359	0.29677	2520.3
35.0000	0.7881	-0.0000	0.78814	0.61086	70.028	7.362	0.29677	2520.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=37.6389 ENTRPHY=37.0421
GAMMA (AVG.)=1.1190 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.6389	0.7919	-0.0722	0.79516	0.56597	91.230	8.455	0.26694	2771.1
37.3750	0.7922	-0.0644	0.79484	0.57051	91.812	8.503	0.26715	2772.9
37.1111	0.7925	-0.0577	0.79456	0.57501	92.329	8.545	0.26736	2774.4
36.8472	0.7927	-0.0505	0.79432	0.57948	92.784	8.582	0.26753	2775.7
36.5833	0.7929	-0.0433	0.79410	0.58392	93.179	8.614	0.26769	2777.0
36.3194	0.7931	-0.0361	0.79392	0.58837	93.514	8.641	0.26781	2777.8
36.0555	0.7932	-0.0289	0.79378	0.59281	93.790	8.663	0.26791	2778.8
35.7916	0.7934	-0.0217	0.79366	0.59727	94.007	8.681	0.26801	2779.4
35.5277	0.7934	-0.0145	0.79357	0.60176	94.164	8.694	0.26806	2779.6
35.2639	0.7935	-0.0073	0.79352	0.60629	94.260	8.701	0.26810	2780.3
35.0000	0.7935	-0.0000	0.79350	0.61086	94.295	8.705	0.26811	2780.1

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTIUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=37.2646 ENTRPHY=38.0556

GAMMA (AVG.)=1.1421 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
37.2646	0.7958	-0.0623	0.79828	0.57223	118.872	9.714	0.24992	3029.2
37.0381	0.7961	-0.0561	0.79805	0.57612	119.520	9.760	0.25011	3030.9
36.8117	0.7963	-0.0498	0.79784	0.57999	120.097	9.800	0.25028	3032.6
36.5852	0.7965	-0.0436	0.79766	0.58383	120.605	9.837	0.25042	3033.8
36.3588	0.7966	-0.0374	0.79750	0.58767	121.046	9.869	0.25055	3034.9
36.1323	0.7968	-0.0312	0.79737	0.59150	121.421	9.895	0.25066	3036.0
35.9058	0.7969	-0.0250	0.79726	0.59533	121.729	9.917	0.25074	3036.8
35.6794	0.7969	-0.0188	0.79717	0.59917	121.971	9.934	0.25082	3037.3
35.4529	0.7970	-0.0125	0.79711	0.60304	122.147	9.946	0.25086	3037.8
35.2264	0.7970	-0.0063	0.79707	0.60693	122.254	9.954	0.25089	3038.2
35.0000	0.7971	-0.0000	0.79705	0.61086	122.293	9.956	0.25091	3038.4

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTIUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=37.0413 ENTRPHY=39.0947

GAMMA (AVG.)=1.1847 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
37.0413	0.7982	-0.0564	0.80019	0.57600	150.200	10.688	0.24170	3342.2
36.8372	0.7984	-0.0507	0.80000	0.57951	150.935	10.734	0.24187	3343.7
36.6331	0.7986	-0.0451	0.79983	0.58299	151.591	10.773	0.24203	3345.7
36.4289	0.7987	-0.0394	0.79968	0.58646	152.169	10.808	0.24216	3347.2
36.2248	0.7988	-0.0338	0.79955	0.58992	152.671	10.838	0.24228	3348.7
36.0207	0.7989	-0.0282	0.79944	0.59338	153.097	10.864	0.24239	3349.8
35.8165	0.7990	-0.0226	0.79935	0.59684	153.448	10.886	0.24247	3350.4
35.6124	0.7991	-0.0170	0.79928	0.60032	153.724	10.902	0.24253	3351.3
35.4082	0.7991	-0.0113	0.79923	0.60381	153.923	10.914	0.24257	3351.9
35.2041	0.7992	-0.0057	0.79919	0.60732	154.045	10.922	0.24260	3352.0
35.0000	0.7992	0.0000	0.79918	0.61087	154.089	10.924	0.24262	3352.2

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLWM PROPERTIES

SHOCK ANGLE=36.9987 ENTRPHY=40.2732
GAMMA (AVG.)=1.2279 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
36.9987	0.7986	-0.0552	0.80055	0.57675	185.209	10.904	0.24345	3863.8
36.7988	0.7988	-0.0497	0.80037	0.58017	186.094	10.945	0.24362	3866.8
36.5989	0.7990	-0.0441	0.80021	0.58358	186.884	10.982	0.24378	3870.1
36.3991	0.7991	-0.0386	0.80007	0.58697	187.582	11.014	0.24393	3872.6
36.1992	0.7993	-0.0331	0.79994	0.59036	188.187	11.042	0.24405	3874.9
35.9993	0.7994	-0.0276	0.79984	0.59374	188.702	11.066	0.24415	3876.8
35.7995	0.7994	-0.0221	0.79975	0.59713	189.125	11.085	0.24423	3878.5
35.5996	0.7995	-0.0166	0.79968	0.60053	189.457	11.100	0.24430	3879.8
35.3997	0.7996	-0.0111	0.79963	0.60395	189.698	11.112	0.24434	3880.6
35.1998	0.7996	-0.0056	0.79960	0.60740	189.845	11.119	0.24436	3881.1
35.0000	0.7996	0.0000	0.79959	0.61087	189.898	11.121	0.24439	3881.6

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRPHY=31.0178

FLWM PROPERTIES

SHOCK ANGLE=37.0008 ENTRPHY=41.4044
GAMMA (AVG.)=1.1969 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
37.0008	0.7986	-0.0553	0.80054	0.57669	223.883	10.888	0.24043	4552.3
36.8007	0.7988	-0.0497	0.80035	0.58012	224.958	10.933	0.24055	4555.1
36.6007	0.7990	-0.0442	0.80019	0.58353	225.917	10.974	0.24066	4557.5
36.4006	0.7991	-0.0387	0.80005	0.58693	226.764	11.009	0.24075	4559.7
36.2005	0.7992	-0.0332	0.79992	0.59033	227.498	11.040	0.24083	4561.6
36.0004	0.7993	-0.0277	0.79982	0.59372	228.123	11.066	0.24090	4563.3
35.8003	0.7994	-0.0222	0.79973	0.59711	228.636	11.087	0.24096	4564.4
35.6002	0.7995	-0.0166	0.79966	0.60052	229.040	11.104	0.24101	4565.6
35.4001	0.7995	-0.0111	0.79961	0.60394	229.331	11.116	0.24104	4566.4
35.2001	0.7996	-0.0056	0.79958	0.60739	229.510	11.124	0.24106	4566.9
35.0000	0.7996	0.0000	0.79957	0.61086	229.575	11.126	0.24106	4566.9

CBONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRPHY=31.0178

FLW PROPRTIES

SMOCK ANGLE=36.8733 ENTRPHY=42.4243
GAMMA IAVE=1.1648 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8733	0.8000	-0.0519	0.80164	0.57880	266.246	11.566	0.22950	4974.7
36.6860	0.8001	-0.0467	0.80148	0.58202	267.445	11.611	0.22961	4976.9
36.4986	0.8003	-0.0415	0.80134	0.58523	268.515	11.651	0.22970	4979.1
36.3113	0.8004	-0.0363	0.80121	0.58842	269.458	11.687	0.22978	4980.9
36.1260	0.8005	-0.0311	0.80110	0.59161	270.277	11.718	0.22985	4982.4
35.9366	0.8006	-0.0260	0.80101	0.59479	270.972	11.744	0.22991	4983.8
35.7493	0.8007	-0.0208	0.80093	0.59798	271.545	11.766	0.22996	4984.9
35.5620	0.8007	-0.0156	0.80087	0.60117	271.993	11.783	0.23000	4985.7
35.3746	0.8008	-0.0104	0.80083	0.60438	272.318	11.795	0.23003	4986.4
35.1873	0.8008	-0.0052	0.80080	0.60761	272.517	11.802	0.23005	4986.7
35.0000	0.8008	-0.0000	0.80079	0.61086	272.588	11.805	0.23006	4986.9

C

SMOCK ANGLE=36.8733

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRPHY=31.0178

FLW PROPRTIES

SMOCK ANGLE=36.8733 ENTRPHY=42.4243
GAMMA IAVE=1.1648 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.7650	0.8011	-0.0490	0.80250	0.58050	107.096	12.220	0.22547	5366.9
36.5805	0.8012	-0.0461	0.80265	0.58365	114.671	12.265	0.22562	5369.0
36.4120	0.8014	-0.0437	0.80282	0.58668	118.506	12.305	0.22577	5370.9
36.2355	0.8015	-0.0413	0.80221	0.58969	119.950	12.341	0.22587	5372.4
36.0590	0.8016	-0.0394	0.80211	0.59270	119.755	12.372	0.22587	5373.9
35.8825	0.8017	-0.0365	0.80196	0.59570	119.524	12.399	0.22589	5375.1
35.7060	0.8017	-0.0347	0.80196	0.59871	119.198	12.420	0.22589	5376.3
35.5295	0.8018	-0.0317	0.80191	0.60173	119.652	12.437	0.22587	5376.9
35.3530	0.8018	-0.0298	0.80187	0.60475	119.018	12.450	0.22589	5377.4
35.1765	0.8018	-0.0269	0.80186	0.60774	118.230	12.457	0.22581	5377.9
35.0000	0.8018	-0.0200	0.80183	0.61076	117.368	12.460	0.22581	5378.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRØPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=36.6639 ENTRØPV=44.6636
GAMMA (AVG.)=1.1327 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.6639	0.8022	-0.0463	0.80348	0.58230	362.033	12.908	0.21336	5637.2
36.4975	0.8023	-0.0416	0.80336	0.58518	363.483	12.954	0.21344	5639.0
36.3311	0.8024	-0.0370	0.80324	0.58803	364.777	12.994	0.21352	5640.9
36.1647	0.8025	-0.0324	0.80314	0.59088	365.918	13.030	0.21358	5642.3
35.9983	0.8026	-0.0278	0.80306	0.59372	366.907	13.061	0.21364	5643.5
35.8319	0.8026	-0.0231	0.80298	0.59656	367.747	13.088	0.21369	5644.6
35.6655	0.8027	-0.0185	0.80292	0.59940	368.438	13.109	0.21372	5645.4
35.4991	0.8028	-0.0139	0.80287	0.60224	368.980	13.126	0.21376	5646.2
35.3327	0.8028	-0.0093	0.80284	0.60510	369.371	13.138	0.21378	5646.8
35.1664	0.8028	-0.0047	0.80282	0.60797	369.611	13.146	0.21379	5647.0
35.0000	0.8028	-0.0000	0.80281	0.61086	369.696	13.149	0.21380	5647.0

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRØPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=36.5717 ENTRØPV=65.8196
GAMMA (AVG.)=1.1265 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.5717	0.8031	-0.0438	0.80430	0.58386	415.458	13.614	0.20684	5887.9
36.4145	0.8032	-0.0394	0.80419	0.58657	417.029	13.660	0.20691	5889.7
36.2574	0.8033	-0.0350	0.80409	0.58928	418.431	13.700	0.20698	5891.3
36.1002	0.8034	-0.0306	0.80400	0.59197	419.668	13.736	0.20704	5892.7
35.9430	0.8035	-0.0263	0.80392	0.59465	420.741	13.767	0.20709	5893.9
35.7858	0.8036	-0.0219	0.80385	0.59734	421.651	13.793	0.20714	5894.8
35.6287	0.8036	-0.0175	0.80380	0.60002	422.400	13.815	0.20717	5895.6
35.4715	0.8036	-0.0132	0.80376	0.60272	422.987	13.832	0.20720	5896.4
35.3143	0.8037	-0.0088	0.80373	0.60542	423.411	13.844	0.20722	5896.9
35.1571	0.8037	-0.0044	0.80371	0.60813	423.670	13.852	0.20723	5897.0
35.0000	0.8037	-0.0000	0.80370	0.61086	423.763	13.854	0.20724	5897.2

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=35.0 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLØM PROPERTIES

SHØCK ANGLE=36.3899 ENTRØPY=48.8217
GAMMA (AVG.)=1.1323 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.2871	0.8061	-0.0360	0.80686	0.58870	737.866	16.439	0.18954	7001.3
36.1584	0.8061	-0.0324	0.80679	0.59092	740.144	16.483	0.18560	7003.2
36.0297	0.8062	-0.0288	0.80672	0.59314	742.180	16.522	0.18965	7005.1
35.9010	0.8063	-0.0252	0.80666	0.59535	743.976	16.557	0.18970	7006.7
35.7723	0.8063	-0.0216	0.80661	0.59756	745.534	16.587	0.18975	7008.0
35.6435	0.8064	-0.0180	0.80656	0.59976	746.857	16.613	0.18978	7009.2
35.5148	0.8064	-0.0144	0.80652	0.60197	747.944	16.634	0.18981	7010.1
35.3861	0.8064	-0.0108	0.80650	0.60418	748.795	16.650	0.18983	7010.9
35.2574	0.8064	-0.0072	0.80647	0.60640	749.410	16.662	0.18985	7011.4
35.1287	0.8065	-0.0036	0.80646	0.60863	749.785	16.669	0.18986	7011.8
35.0000	0.8065	-0.0000	0.80646	0.61086	749.920	16.672	0.18986	7011.9

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CCU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLØM PROPERTIES

SHØCK ANGLE=36.2871 ENTRØPY=51.9648
GAMMA (AVG.)=1.1534 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.2871	0.8061	-0.0360	0.80686	0.58870	737.866	16.439	0.18954	7001.3
36.1584	0.8061	-0.0324	0.80679	0.59092	740.144	16.483	0.18560	7003.2
36.0297	0.8062	-0.0288	0.80672	0.59314	742.180	16.522	0.18965	7005.1
35.9010	0.8063	-0.0252	0.80666	0.59535	743.976	16.557	0.18970	7006.7
35.7723	0.8063	-0.0216	0.80661	0.59756	745.534	16.587	0.18975	7008.0
35.6435	0.8064	-0.0180	0.80656	0.59976	746.857	16.613	0.18978	7009.2
35.5148	0.8064	-0.0144	0.80652	0.60197	747.944	16.634	0.18981	7010.1
35.3861	0.8064	-0.0108	0.80650	0.60418	748.795	16.650	0.18983	7010.9
35.2574	0.8064	-0.0072	0.80647	0.60640	749.410	16.662	0.18985	7011.4
35.1287	0.8065	-0.0036	0.80646	0.60863	749.785	16.669	0.18986	7011.8
35.0000	0.8065	-0.0000	0.80646	0.61086	749.920	16.672	0.18986	7011.9

CONE SEMI-ANGLE=37.5
 FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 3243.7 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.4798	0.6628	-0.2470	0.70731	0.48940	5.733	3.031	0.70087	511.2
47.3818	0.6672	-0.2224	0.70333	0.50519	5.840	3.072	0.70774	513.9
46.2838	0.6712	-0.1981	0.69984	0.52078	5.935	3.107	0.71383	516.2
45.1858	0.6747	-0.1739	0.69679	0.53634	6.018	3.139	0.71922	518.2
44.0878	0.6778	-0.1498	0.69414	0.55200	6.090	3.166	0.72395	519.9
42.9899	0.6804	-0.1255	0.69186	0.56789	6.153	3.190	0.72805	521.4
41.8919	0.6825	-0.1011	0.68995	0.58411	6.205	3.209	0.73149	522.6
40.7939	0.6842	-0.0764	0.68841	0.60076	6.248	3.225	0.73428	523.6
39.6959	0.6853	-0.0514	0.68726	0.61796	6.279	3.237	0.73637	524.3
38.5979	0.6860	-0.0260	0.68652	0.63583	6.299	3.244	0.73769	524.8
37.5000	0.6862	0.0000	0.68623	0.65450	6.307	3.247	0.73819	525.0

SHOCK ANGLE=48.4798 ENTROPY=31.5200
 GAMMA (AVG.)=1.3852 STAG. ENTHALPY=6.1828E 06 FT. SQ./SEC. SQ.

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.3858	0.7023	-0.1885	0.72713	0.52990	9.345	3.776	0.56398	608.8
44.5972	0.7047	-0.1696	0.72484	0.54214	9.485	3.818	0.56716	671.5
43.8086	0.7069	-0.1510	0.72283	0.55422	9.610	3.854	0.56997	673.9
43.0201	0.7088	-0.1324	0.72107	0.56623	9.719	3.886	0.57245	675.9
42.2315	0.7105	-0.1138	0.71954	0.57827	9.814	3.914	0.57460	677.7
41.4429	0.7119	-0.0952	0.71823	0.59039	9.896	3.938	0.57645	679.2
40.6543	0.7131	-0.0765	0.71714	0.60266	9.964	3.958	0.57798	580.5
39.8657	0.7139	-0.0577	0.71628	0.61514	10.018	3.973	0.57921	681.4
39.0771	0.7146	-0.0387	0.71563	0.62790	10.059	3.985	0.58011	682.2
38.2886	0.7150	-0.0195	0.71523	0.64099	10.084	3.992	0.58068	682.6
37.5000	0.7151	0.0000	0.71507	0.65450	10.093	3.995	0.58089	682.8

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=43.9148 ENTRØPY=32.5681
GAMMA (AVG.)=1.3461 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.9148	0.7203	-0.1578	0.73741	0.55086	14.007	4.396	0.49476	861.1
43.2733	0.7220	-0.1419	0.73582	0.56114	14.188	4.438	0.49676	864.0
42.6318	0.7235	-0.1263	0.73441	0.57129	14.347	4.475	0.49852	866.5
41.9903	0.7248	-0.1106	0.73318	0.58138	14.488	4.508	0.50007	868.6
41.3488	0.7259	-0.0951	0.73212	0.59147	14.611	4.536	0.50142	870.5
40.7074	0.7269	-0.0795	0.73121	0.60160	14.715	4.560	0.50256	872.1
40.0659	0.7277	-0.0638	0.73046	0.61183	14.802	4.580	0.50351	873.4
39.4244	0.7283	-0.0481	0.72986	0.62218	14.871	4.596	0.50427	874.5
38.7829	0.7287	-0.0322	0.72942	0.63271	14.922	4.608	0.50482	875.2
38.1414	0.7290	-0.0162	0.72914	0.64347	14.954	4.615	0.50517	875.7
37.5000	0.7290	-0.0000	0.72903	0.65450	14.965	4.618	0.50529	875.9

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=43.0608 ENTRØPY=33.1407
GAMMA (AVG.)=1.3288 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.0608	0.7306	-0.1390	0.74371	0.56354	19.712	4.912	0.45277	1084.7
42.5047	0.7319	-0.1251	0.74248	0.57260	19.938	4.954	0.45423	1087.7
41.9486	0.7330	-0.1112	0.74139	0.58156	20.138	4.992	0.45551	1090.4
41.3926	0.7340	-0.0974	0.74044	0.59047	20.315	5.024	0.45664	1092.8
40.8365	0.7349	-0.0837	0.73962	0.59936	20.469	5.053	0.45762	1094.8
40.2804	0.7356	-0.0699	0.73891	0.60828	20.600	5.077	0.45845	1096.6
39.7243	0.7362	-0.0561	0.73833	0.61726	20.709	5.098	0.45914	1098.0
39.1682	0.7367	-0.0422	0.73787	0.62634	20.795	5.113	0.45968	1099.1
38.6121	0.7370	-0.0283	0.73753	0.63555	20.858	5.125	0.46008	1099.9
38.0560	0.7372	-0.0142	0.73732	0.64492	20.897	5.132	0.46033	1100.4
37.5000	0.7372	0.0000	0.73724	0.65450	20.911	5.135	0.46042	1100.6

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=42.1217 ENTRØPY=34.2602
GAMMA (AVG.)=1.3074 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.1217	0.7417	-0.1176	0.75097	0.57792	34.239	5.703	0.40515	1622.6
41.6596	0.7426	-0.1058	0.75010	0.58558	34.574	5.746	0.40612	1626.3
41.1974	0.7434	-0.0941	0.74932	0.59316	34.872	5.784	0.40699	1629.6
40.7352	0.7441	-0.0824	0.74864	0.60069	35.134	5.817	0.40774	1632.4
40.2730	0.7447	-0.0707	0.74806	0.60821	35.362	5.846	0.40840	1634.9
39.8109	0.7452	-0.0591	0.74756	0.61575	35.556	5.870	0.40896	1637.0
39.3487	0.7456	-0.0474	0.74714	0.62332	35.717	5.891	0.40942	1638.8
38.8865	0.7460	-0.0356	0.74682	0.63096	35.844	5.907	0.40978	1640.1
38.4243	0.7462	-0.0238	0.74658	0.63868	35.937	5.918	0.41004	1641.1
37.9621	0.7463	-0.0120	0.74643	0.64652	35.995	5.926	0.41021	1641.8
37.5000	0.7464	0.0000	0.74637	0.65450	36.015	5.928	0.41027	1642.0

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=41.6336 ENTRØPY=35.3011
GAMMA (AVG.)=1.2972 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.6336	0.7474	-0.1061	0.75490	0.58557	52.921	6.259	0.37985	2285.1
41.2202	0.7481	-0.0955	0.75419	0.59248	53.389	6.302	0.38062	2289.7
40.8068	0.7488	-0.0849	0.75356	0.59931	53.806	6.340	0.38131	2293.8
40.3935	0.7493	-0.0743	0.75301	0.60611	54.173	6.373	0.38190	2297.4
39.9801	0.7498	-0.0638	0.75253	0.61289	54.492	6.402	0.38242	2300.5
39.5668	0.7502	-0.0533	0.75212	0.61969	54.764	6.427	0.38286	2303.1
39.1534	0.7506	-0.0427	0.75179	0.62651	54.989	6.447	0.38328	2305.3
38.7400	0.7508	-0.0321	0.75152	0.63338	55.166	6.463	0.38351	2307.0
38.3267	0.7510	-0.0215	0.75133	0.64032	55.296	6.475	0.38372	2308.2
37.9133	0.7511	-0.0108	0.75121	0.64735	55.376	6.482	0.38385	2309.0
37.5000	0.7512	0.0000	0.75116	0.65450	55.404	6.485	0.38390	2309.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 12974.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=40.7825 ENTRPHY=36.4106
 GAMMA (AVG.)=1.1196 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.7825	0.7572	-0.0858	0.76204	0.59889	75.709	7.608	0.31361	2608.8
40.4543	0.7576	-0.0772	0.76157	0.60453	76.253	7.656	0.31397	2610.8
40.1260	0.7581	-0.0686	0.76116	0.61010	76.737	7.699	0.31426	2612.4
39.7978	0.7584	-0.0600	0.76080	0.61562	77.162	7.736	0.31450	2614.0
39.4695	0.7587	-0.0515	0.76048	0.62113	77.530	7.768	0.31472	2615.3
39.1412	0.7590	-0.0429	0.76022	0.62662	77.843	7.796	0.31491	2616.4
38.8130	0.7592	-0.0344	0.76000	0.63212	78.101	7.819	0.31507	2617.3
38.4847	0.7594	-0.0259	0.75983	0.63765	78.303	7.837	0.31518	2617.8
38.1565	0.7595	-0.0173	0.75971	0.64321	78.451	7.850	0.31527	2618.2
37.8282	0.7596	-0.0087	0.75963	0.64883	78.541	7.858	0.31533	2618.6
37.5000	0.7596	0.0000	0.75960	0.65451	78.574	7.860	0.31536	2618.8

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=40.2109 ENTRPHY=37.4766
 GAMMA (AVG.)=1.1259 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2109	0.7637	-0.0716	0.76702	0.60835	102.689	9.018	0.28563	2880.0
39.9398	0.7640	-0.0644	0.76669	0.61301	103.297	9.065	0.28588	2881.7
39.6687	0.7643	-0.0572	0.76641	0.61763	103.839	9.107	0.28610	2883.2
39.3976	0.7645	-0.0501	0.76616	0.62222	104.316	9.143	0.28630	2884.5
39.1265	0.7647	-0.0429	0.76594	0.62679	104.729	9.175	0.28647	2885.7
38.8554	0.7649	-0.0358	0.76576	0.63136	105.080	9.202	0.28661	2886.7
38.5843	0.7651	-0.0287	0.76561	0.63594	105.370	9.224	0.28672	2887.4
38.3132	0.7652	-0.0216	0.76549	0.64053	105.597	9.242	0.28682	2887.9
38.0421	0.7653	-0.0144	0.76540	0.64515	105.761	9.255	0.28688	2888.2
37.7710	0.7653	-0.0072	0.76535	0.64980	105.862	9.262	0.28694	2888.7
37.5000	0.7653	0.0000	0.76533	0.65450	105.898	9.265	0.28694	2888.7

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.8561 ENTRPHY=38.5627
GAMMA (AVG.)=1.1612 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8561	0.7677	-0.0626	0.77020	0.61429	133.825	10.242	0.27037	3172.3
39.6205	0.7679	-0.0563	0.76995	0.61834	134.512	10.288	0.27057	3173.9
39.3849	0.7681	-0.0500	0.76974	0.62236	135.124	10.327	0.27077	3175.8
39.1493	0.7683	-0.0438	0.76955	0.62636	135.664	10.363	0.27094	3177.1
38.9137	0.7685	-0.0376	0.76938	0.63035	136.133	10.394	0.27108	3178.2
38.6781	0.7686	-0.0313	0.76924	0.63433	136.530	10.420	0.27121	3179.3
38.4424	0.7687	-0.0251	0.76913	0.63832	136.858	10.441	0.27130	3180.2
38.2068	0.7688	-0.0188	0.76904	0.64233	137.115	10.459	0.27139	3180.8
37.9712	0.7689	-0.0126	0.76897	0.64636	137.301	10.470	0.27144	3181.4
37.7356	0.7689	-0.0063	0.76893	0.65041	137.415	10.477	0.27148	3181.9
37.5000	0.7689	0.0000	0.76891	0.65450	137.456	10.481	0.27149	3181.8

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.6782 ENTRPHY=39.6873
GAMMA (AVG.)=1.2110 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6782	0.7696	-0.0580	0.77182	0.61732	169.117	11.011	0.26542	3569.9
39.4603	0.7698	-0.0522	0.77161	0.62105	169.917	11.053	0.26562	3572.9
39.2425	0.7700	-0.0464	0.77143	0.62476	170.631	11.093	0.26581	3574.7
39.0247	0.7702	-0.0406	0.77126	0.62846	171.261	11.126	0.26597	3576.7
38.8069	0.7703	-0.0348	0.77112	0.63215	171.808	11.156	0.26611	3578.1
38.5891	0.7705	-0.0290	0.77100	0.63584	172.273	11.181	0.26622	3579.7
38.3712	0.7706	-0.0233	0.77090	0.63954	172.656	11.203	0.26633	3580.5
38.1534	0.7706	-0.0175	0.77083	0.64324	172.956	11.218	0.26640	3581.7
37.9355	0.7707	-0.0117	0.77077	0.64697	173.173	11.230	0.26645	3582.2
37.7178	0.7707	-0.0058	0.77073	0.65072	173.306	11.237	0.26649	3582.5
37.5000	0.7707	0.0000	0.77072	0.65450	173.354	11.240	0.26650	3582.6

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLW PROPRIETIES

SHOCK ANGLE=39.7660 ENTRPHY=41.0604
 GAMMA (AVG.)=1.2165 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.7660	0.7687	-0.0602	0.77102	0.61585	208.553	10.620	0.27127	4362.5
39.5394	0.7689	-0.0542	0.77079	0.61973	209.581	10.664	0.27144	4365.7
39.3128	0.7691	-0.0482	0.77059	0.62359	210.498	10.703	0.27159	4368.6
39.0862	0.7693	-0.0422	0.77042	0.62743	211.307	10.738	0.27172	4371.0
38.8596	0.7694	-0.0362	0.77026	0.63126	212.010	10.768	0.27183	4373.1
38.6330	0.7695	-0.0302	0.77013	0.63510	212.607	10.794	0.27193	4374.9
38.4064	0.7696	-0.0242	0.77003	0.63894	213.099	10.815	0.27201	4376.5
38.1798	0.7697	-0.0181	0.76994	0.64279	213.485	10.831	0.27207	4377.5
37.9532	0.7698	-0.0121	0.76988	0.64666	213.764	10.843	0.27212	4378.4
37.7266	0.7698	-0.0061	0.76984	0.65056	213.936	10.850	0.27214	4378.9
37.5000	0.7698	0.0000	0.76983	0.65450	213.997	10.853	0.27215	4379.1

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 23787.3 FT./SEC. ENTRPHY=31.0178

FLW PROPRIETIES

SHOCK ANGLE=39.6041 ENTRPHY=42.0738
 GAMMA (AVG.)=1.1730 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6041	0.7705	-0.0561	0.77251	0.61851	252.122	11.360	0.25657	4843.6
39.3937	0.7707	-0.0505	0.77231	0.62213	253.280	11.405	0.25670	4846.1
39.1833	0.7708	-0.0449	0.77214	0.62573	254.312	11.445	0.25682	4848.2
38.9729	0.7710	-0.0393	0.77198	0.62931	255.223	11.481	0.25692	4850.1
38.7625	0.7711	-0.0337	0.77185	0.63288	256.014	11.512	0.25701	4851.7
38.5520	0.7712	-0.0281	0.77174	0.63645	256.685	11.538	0.25709	4853.1
38.3416	0.7713	-0.0225	0.77165	0.64003	257.238	11.559	0.25715	4854.2
38.1312	0.7714	-0.0169	0.77157	0.64361	257.671	11.576	0.25720	4855.2
37.9208	0.7714	-0.0113	0.77152	0.64722	257.985	11.589	0.25723	4855.8
37.7104	0.7715	-0.0057	0.77149	0.65084	258.177	11.596	0.25726	4856.1
37.5000	0.7715	-0.0000	0.77143	0.65450	258.246	11.599	0.25727	4856.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.4741 ENTRPHY=43.2368
GAMMA (AVG.)=1.1497 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.4741	0.7719	-0.0528	0.77371	0.62068	299.847	12.044	0.24599	5248.1
39.2767	0.7721	-0.0475	0.77354	0.62408	301.141	12.089	0.24610	5250.3
39.0792	0.7722	-0.0422	0.77339	0.62746	302.295	12.130	0.24621	5252.1
38.8818	0.7724	-0.0369	0.77325	0.63083	303.312	12.166	0.24630	5253.8
38.6844	0.7725	-0.0317	0.77313	0.63419	304.195	12.197	0.24637	5255.3
38.4870	0.7726	-0.0264	0.77303	0.63755	304.945	12.223	0.24644	5256.6
38.2896	0.7727	-0.0212	0.77295	0.64091	305.562	12.245	0.24649	5257.4
38.0922	0.7727	-0.0159	0.77289	0.64428	306.045	12.262	0.24654	5258.3
37.8948	0.7728	-0.0106	0.77284	0.64766	306.395	12.274	0.24657	5258.8
37.6974	0.7728	-0.0053	0.77281	0.65107	306.609	12.282	0.24659	5259.2
37.5000	0.7728	-0.0000	0.77280	0.65450	306.686	12.284	0.24659	5259.4

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=39.3532 ENTRPHY=44.4339
GAMMA (AVG.)=1.1347 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.3532	0.7733	-0.0497	0.77484	0.62270	351.725	12.768	0.23676	5501.3
39.1678	0.7734	-0.0447	0.77469	0.62590	353.150	12.813	0.23687	5503.1
38.9825	0.7735	-0.0397	0.77456	0.62908	354.422	12.854	0.23696	5504.8
38.7972	0.7737	-0.0348	0.77444	0.63225	355.543	12.890	0.23703	5506.2
38.6119	0.7738	-0.0298	0.77433	0.63541	356.516	12.921	0.23710	5507.5
38.4266	0.7738	-0.0249	0.77424	0.63857	357.342	12.947	0.23716	5508.8
38.2413	0.7739	-0.0199	0.77417	0.64173	358.021	12.969	0.23721	5509.6
38.0559	0.7740	-0.0149	0.77411	0.64490	358.554	12.986	0.23725	5509.4
37.8706	0.7740	-0.0100	0.77407	0.64808	358.938	12.998	0.23728	5509.8
37.6853	0.7740	-0.0050	0.77405	0.65128	359.174	13.006	0.23729	5509.0
37.5000	0.7740	-0.0000	0.77404	0.65450	359.258	13.008	0.23730	5509.2

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=39.2431 ENTRØPY=45.6563
GAMMA (AVG.)=1.1270 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.2431	0.7745	-0.0468	0.77588	0.62456	407.756	13.515	0.22884	5855.3
39.0688	0.7746	-0.0421	0.77575	0.62757	409.310	13.561	0.22893	5857.0
38.8944	0.7747	-0.0374	0.77562	0.63056	410.697	13.601	0.22901	5858.6
38.7201	0.7748	-0.0328	0.77552	0.63355	411.920	13.637	0.22908	5859.9
38.5458	0.7749	-0.0281	0.77543	0.63652	412.981	13.668	0.22915	5861.2
38.3715	0.7750	-0.0234	0.77535	0.63950	413.882	13.694	0.22920	5862.2
38.1972	0.7751	-0.0188	0.77528	0.64248	414.623	13.716	0.22924	5863.0
38.0229	0.7751	-0.0141	0.77523	0.64546	415.203	13.733	0.22928	5863.6
37.8486	0.7751	-0.0094	0.77520	0.64846	415.622	13.745	0.22930	5864.1
37.6743	0.7752	-0.0047	0.77517	0.65147	415.879	13.753	0.22931	5864.4
37.5000	0.7752	-0.0000	0.77517	0.65450	415.971	13.755	0.22932	5864.6

CONE SEMI-ANGLE=37.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=39.1459 ENTRØPY=46.9074
GAMMA (AVG.)=1.1256 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.1459	0.7755	-0.0443	0.77680	0.62620	467.939	14.259	0.22224	6089.1
38.9813	0.7757	-0.0398	0.77668	0.62904	469.623	14.303	0.22232	6090.8
38.8167	0.7758	-0.0354	0.77657	0.63188	471.126	14.344	0.22240	6092.2
38.6522	0.7759	-0.0310	0.77648	0.63470	472.451	14.380	0.22247	6093.6
38.4876	0.7759	-0.0266	0.77640	0.63751	473.601	14.411	0.22252	6094.7
38.3230	0.7760	-0.0222	0.77633	0.64032	474.578	14.437	0.22257	6095.7
38.1584	0.7761	-0.0177	0.77627	0.64314	475.380	14.459	0.22261	6096.5
37.9938	0.7761	-0.0133	0.77622	0.64596	476.009	14.475	0.22264	6097.2
37.8292	0.7761	-0.0089	0.77619	0.64879	476.463	14.488	0.22266	6097.4
37.6646	0.7762	-0.0045	0.77617	0.65164	476.740	14.495	0.22268	6097.8
37.5000	0.7762	-0.0000	0.77616	0.65450	476.840	14.498	0.22268	6097.8

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRPHY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=38.9665 ENTRPHY=50.1581
GAMMA (AVG.)=1.1408 STAG. ENTHALPHY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.9685	0.7775	-0.0396	0.77850	0.62922	636.563	15.874	0.21136	6636.4
38.8216	0.7776	-0.0356	0.77840	0.63176	638.503	15.918	0.21143	6638.2
38.6748	0.7777	-0.0317	0.77832	0.63429	640.426	15.958	0.21150	6639.8
38.5279	0.7777	-0.0277	0.77824	0.63680	642.035	15.993	0.21156	6641.0
38.3811	0.7778	-0.0238	0.77818	0.63932	643.430	16.024	0.21161	6642.3
38.2342	0.7779	-0.0198	0.77812	0.64183	644.614	16.049	0.21165	6643.4
38.0874	0.7779	-0.0159	0.77807	0.64435	645.588	16.071	0.21169	6644.2
37.9405	0.7779	-0.0119	0.77804	0.64687	646.350	16.087	0.21171	6644.8
37.7937	0.7780	-0.0080	0.77801	0.64940	646.900	16.099	0.21173	6645.3
37.6468	0.7780	-0.0040	0.77799	0.65194	647.237	16.106	0.21174	6645.7
37.5000	0.7780	-0.0000	0.77799	0.65450	647.357	16.109	0.21175	6645.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100F 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRPHY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=38.8944 ENTRPHY=53.5425
GAMMA (AVG.)=1.1612 STAG. ENTHALPHY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.8944	0.7783	-0.0377	0.77921	0.63048	831.132	16.672	0.20779	7410.6
38.7549	0.7784	-0.0339	0.77913	0.63289	833.659	16.714	0.20787	7413.1
38.6155	0.7785	-0.0301	0.77905	0.63529	835.917	16.753	0.20793	7415.2
38.4761	0.7785	-0.0264	0.77898	0.63769	837.910	16.787	0.20799	7417.0
38.3366	0.7786	-0.0226	0.77892	0.64008	839.640	16.817	0.20804	7418.5
38.1972	0.7786	-0.0188	0.77887	0.64247	841.108	16.842	0.20808	7420.0
38.0577	0.7787	-0.0151	0.77883	0.64486	842.314	16.863	0.20811	7421.0
37.9183	0.7787	-0.0113	0.77880	0.64725	843.259	16.879	0.20814	7421.9
37.7788	0.7787	-0.0076	0.77877	0.64966	843.941	16.891	0.20816	7422.7
37.6394	0.7787	-0.0038	0.77876	0.65207	844.357	16.898	0.20818	7423.1
37.5000	0.7788	-0.0000	0.77875	0.65450	844.506	16.901	0.20818	7423.1

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NØ.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=51.6757 ENTRØPY=31.6019
GAMMA (AVG.)=1.3823 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.6757	0.6200	-0.2469	0.66737	0.52287	6.313	3.176	0.77526	537.2
50.5081	0.6247	-0.2224	0.66316	0.53947	6.426	3.217	0.78379	539.8
49.3405	0.6290	-0.1982	0.65945	0.55592	6.525	3.253	0.79141	542.1
48.1730	0.6327	-0.1740	0.65621	0.57240	6.612	3.284	0.79818	544.1
47.0054	0.6360	-0.1498	0.65338	0.58902	6.688	3.312	0.80416	545.8
45.8378	0.6387	-0.1256	0.65095	0.60591	6.754	3.335	0.80935	547.3
44.6702	0.6410	-0.1011	0.64891	0.62317	6.809	3.355	0.81373	548.5
43.5027	0.6427	-0.0764	0.64727	0.64091	6.853	3.371	0.81728	549.5
42.3351	0.6440	-0.0514	0.64604	0.65924	6.886	3.382	0.81994	550.3
41.1675	0.6447	-0.0260	0.64525	0.67827	6.907	3.390	0.82163	550.7
40.0000	0.6449	0.0000	0.64494	0.69813	6.915	3.393	0.82227	550.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NØ.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=48.3902 ENTRØPY=32.1384
GAMMA (AVG.)=1.3618 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.3902	0.6640	-0.1902	0.69069	0.56562	10.337	3.931	0.61755	710.7
47.5512	0.6666	-0.1712	0.68824	0.57856	10.486	3.973	0.62134	713.4
46.7121	0.6690	-0.1523	0.68608	0.59137	10.617	4.009	0.62471	715.8
45.8731	0.6710	-0.1336	0.68418	0.60414	10.734	4.041	0.62767	717.8
45.0341	0.6728	-0.1148	0.68254	0.61694	10.835	4.069	0.63026	719.6
44.1951	0.6743	-0.0961	0.68113	0.62984	10.921	4.093	0.63247	721.1
43.3561	0.6756	-0.0772	0.67996	0.64291	10.994	4.113	0.63432	722.4
42.5170	0.6765	-0.0582	0.67903	0.65621	11.051	4.129	0.63580	723.4
41.6780	0.6772	-0.0391	0.67834	0.66981	11.094	4.141	0.63688	724.1
40.8390	0.6776	-0.0197	0.67790	0.68376	11.120	4.148	0.63757	724.6
40.0000	0.6777	0.0000	0.67773	0.69813	11.130	4.151	0.63782	724.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRPHY=31.0178

FLW PROPERTIES

SHOCK ANGLE=46.8463 ENTRPHY=32.7319
GAMMA (AVG.)=1.3407 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.8463	0.6839	-0.1602	0.70243	0.58755	15.537	4.554	0.54074	922.1
46.1616	0.6857	-0.1441	0.70071	0.59848	15.729	4.596	0.54309	925.0
45.4770	0.6873	-0.1282	0.69918	0.60929	15.900	4.633	0.54518	927.5
44.7924	0.6887	-0.1124	0.69785	0.62005	16.050	4.666	0.54701	929.8
44.1077	0.6900	-0.0965	0.69669	0.63081	16.181	4.694	0.54861	931.7
43.4231	0.6910	-0.0807	0.69571	0.64163	16.293	4.718	0.54997	933.3
42.7385	0.6919	-0.0648	0.69489	0.65255	16.386	4.738	0.55110	934.7
42.0539	0.6925	-0.0488	0.69424	0.66362	16.460	4.754	0.55200	935.7
41.3692	0.6930	-0.0327	0.69376	0.67487	16.514	4.766	0.55265	936.5
40.6846	0.6933	-0.0165	0.69346	0.68636	16.548	4.773	0.55307	937.0
40.0000	0.6933	-0.0000	0.69334	0.69813	16.560	4.776	0.55322	937.2

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRPHY=31.0178

FLW PROPERTIES

SHOCK ANGLE=45.9529 ENTRPHY=33.3359
GAMMA (AVG.)=1.3240 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.9529	0.6952	-0.1418	0.70954	0.60079	21.300	5.068	0.49490	1168.0
45.3576	0.6966	-0.1276	0.70820	0.61046	22.143	5.110	0.49661	1171.1
44.7623	0.6978	-0.1135	0.70701	0.62003	22.358	5.148	0.49813	1173.9
44.1670	0.6989	-0.0994	0.70597	0.62955	22.548	5.181	0.49946	1176.4
43.5717	0.6999	-0.0854	0.70507	0.63907	22.713	5.209	0.50062	1178.5
42.9764	0.7007	-0.0713	0.70430	0.64862	22.854	5.234	0.50160	1180.2
42.3812	0.7013	-0.0573	0.70367	0.65824	22.971	5.254	0.50242	1181.7
41.7859	0.7018	-0.0431	0.70316	0.66797	23.063	5.270	0.50306	1182.9
41.1906	0.7022	-0.0289	0.70279	0.67783	23.131	5.281	0.50353	1183.7
40.5953	0.7024	-0.0145	0.70256	0.68787	23.173	5.289	0.50383	1184.2
40.0000	0.7025	-0.0000	0.70247	0.69813	23.189	5.291	0.50393	1184.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO. = 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=44.9760 ENTRØPY=34.5038
GAMMA (AVG.)=1.3044 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.9760	0.7074	-0.1209	0.71764	0.61572	38.107	5.847	0.44367	1761.5
44.4784	0.7084	-0.1088	0.71668	0.62394	38.469	5.889	0.44482	1765.4
43.9808	0.7093	-0.0967	0.71582	0.63209	38.792	5.927	0.44584	1768.8
43.4832	0.7100	-0.0847	0.71507	0.64019	39.076	5.961	0.44674	1771.9
42.9856	0.7107	-0.0727	0.71442	0.64829	39.323	5.989	0.44751	1774.5
42.4880	0.7113	-0.0607	0.71386	0.65640	39.534	6.014	0.44817	1776.7
41.9904	0.7117	-0.0487	0.71340	0.66455	39.708	6.034	0.44871	1778.5
41.4928	0.7121	-0.0366	0.71304	0.67278	39.846	6.050	0.44915	1779.9
40.9952	0.7124	-0.0245	0.71278	0.68110	39.946	6.062	0.44946	1781.0
40.4976	0.7125	-0.0123	0.71261	0.68954	40.008	6.069	0.44965	1781.6
40.0000	0.7125	0.0000	0.71255	0.69813	40.031	6.072	0.44973	1781.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO. = 10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=44.2764 ENTRØPY=35.6487
GAMMA (AVG.)=1.1427 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.2764	0.7160	-0.1057	0.72372	0.62626	58.906	6.608	0.38210	2395.1
43.8488	0.7167	-0.0950	0.72298	0.63353	59.403	6.655	0.38267	2397.7
43.4211	0.7174	-0.0844	0.72232	0.64071	59.844	6.697	0.38314	2400.0
42.9935	0.7180	-0.0739	0.72175	0.64784	60.232	6.734	0.38357	2401.9
42.5658	0.7185	-0.0634	0.72125	0.65493	60.568	6.767	0.38394	2403.5
42.1382	0.7189	-0.0529	0.72083	0.66201	60.853	6.793	0.38427	2405.0
41.7105	0.7192	-0.0424	0.72048	0.66911	61.088	6.816	0.38452	2406.0
41.2829	0.7195	-0.0319	0.72021	0.67626	61.274	6.834	0.38474	2407.1
40.8553	0.7197	-0.0213	0.72001	0.68346	61.408	6.847	0.38489	2407.6
40.4276	0.7198	-0.0107	0.71988	0.69075	61.492	6.855	0.38499	2407.9
40.0000	0.7198	0.0000	0.71984	0.69814	61.522	6.858	0.38502	2408.1

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=43.3784 ENTRPHY=36.7687
GAMMA (AVG.)=1.1178 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
43.3784	0.7268	-0.0849	0.73177	0.64084	84.345	8.092	0.33474	2701.9
43.0406	0.7273	-0.0763	0.73129	0.64664	84.910	8.139	0.33511	2703.8
42.7027	0.7277	-0.0678	0.73087	0.65237	85.412	8.181	0.33544	2705.3
42.3649	0.7281	-0.0594	0.73050	0.65806	85.854	8.219	0.33574	2706.6
42.0270	0.7284	-0.0509	0.73018	0.66373	86.237	8.251	0.33598	2707.8
41.6892	0.7287	-0.0425	0.72991	0.66940	86.563	8.278	0.33618	2709.0
41.3514	0.7289	-0.0340	0.72969	0.67507	86.831	8.301	0.33635	2709.7
41.0135	0.7291	-0.0256	0.72952	0.68077	87.041	8.318	0.33648	2710.5
40.6757	0.7292	-0.0171	0.72939	0.68651	87.194	8.331	0.33660	2710.8
40.3378	0.7293	-0.0086	0.72931	0.69229	87.288	8.339	0.33665	2711.2
40.0000	0.7293	0.0000	0.72928	0.69815	87.321	8.342	0.33668	2711.3

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.8083 ENTRPHY=37.8999
GAMMA (AVG.)=1.1370 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.8083	0.7336	-0.0713	0.73708	0.65031	114.425	9.535	0.30729	2988.2
42.5275	0.7340	-0.0641	0.73675	0.65513	115.061	9.582	0.30756	2989.6
42.2467	0.7342	-0.0570	0.73645	0.65991	115.629	9.622	0.30783	2991.5
41.9658	0.7345	-0.0499	0.73620	0.66467	116.128	9.659	0.30805	2992.6
41.6850	0.7347	-0.0428	0.73597	0.66941	116.561	9.690	0.30824	2994.0
41.4042	0.7349	-0.0357	0.73578	0.67415	116.929	9.716	0.30841	2994.8
41.1233	0.7351	-0.0286	0.73563	0.67890	117.232	9.739	0.30853	2995.5
40.8425	0.7352	-0.0215	0.73550	0.68366	117.470	9.756	0.30865	2996.2
40.5617	0.7353	-0.0143	0.73541	0.68845	117.642	9.767	0.30872	2997.0
40.2808	0.7353	-0.0072	0.73536	0.69327	117.748	9.775	0.30877	2997.2
40.0000	0.7353	0.0000	0.73534	0.69815	117.786	9.778	0.30878	2997.1

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.4818 ENTRØPY=39.0608
GAMMA (AVG.)=1.1831 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.4818	0.7375	-0.0633	0.74020	0.65579	149.140	10.665	0.29444	3330.2
42.2336	0.7377	-0.0570	0.73994	0.66004	149.871	10.708	0.29470	3332.4
41.9854	0.7380	-0.0506	0.73971	0.66427	150.524	10.748	0.29492	3334.4
41.7372	0.7382	-0.0443	0.73951	0.66848	151.099	10.783	0.29511	3335.7
41.4891	0.7384	-0.0380	0.73933	0.67268	151.599	10.814	0.29528	3337.0
41.2409	0.7385	-0.0317	0.73918	0.67688	152.023	10.840	0.29542	3338.0
40.9927	0.7386	-0.0254	0.73906	0.68109	152.372	10.860	0.29554	3339.1
40.7445	0.7387	-0.0191	0.73896	0.68531	152.647	10.876	0.29564	3340.1
40.4963	0.7388	-0.0127	0.73889	0.68955	152.845	10.888	0.29571	3340.6
40.2482	0.7388	-0.0064	0.73885	0.69383	152.967	10.895	0.29575	3341.0
40.0000	0.7388	0.0000	0.73883	0.69813	153.010	10.898	0.29575	3341.1

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.4431 ENTRØPY=40.3997
GAMMA (AVG.)=1.2284 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.4431	0.7379	-0.0623	0.74057	0.65649	188.500	10.824	0.29762	3943.4
42.1988	0.7382	-0.0561	0.74032	0.66066	189.408	10.864	0.29788	3947.1
41.9545	0.7384	-0.0499	0.74010	0.66482	190.218	10.901	0.29810	3950.1
41.7102	0.7386	-0.0436	0.73990	0.66895	190.934	10.933	0.29829	3953.1
41.4659	0.7388	-0.0374	0.73973	0.67309	191.555	10.961	0.29846	3955.6
41.2215	0.7389	-0.0312	0.73959	0.67722	192.082	10.985	0.29861	3957.4
40.9772	0.7390	-0.0250	0.73947	0.68136	192.517	11.004	0.29873	3959.3
40.7329	0.7391	-0.0188	0.73937	0.68552	192.858	11.019	0.29882	3960.4
40.4886	0.7392	-0.0125	0.73931	0.68969	193.104	11.030	0.29889	3961.4
40.2443	0.7392	-0.0063	0.73926	0.69390	193.256	11.037	0.29894	3962.1
40.0000	0.7392	0.0000	0.73925	0.69814	193.310	11.039	0.29895	3962.5

CONE SEMI-ANGLE=40.0
 FREE STREAM CONDITIONS
 MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 21624.8 FT./SEC. ENTRAPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.3678 ENTRAPY=41.5974
 GAMMA (AVG.)=1.1880 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.3878	0.7386	-0.0610	0.74111	0.65736	232.463	11.046	0.28917	4645.4	42.2247	0.7405	-0.0571	0.74271	0.66006	281.046	11.778	0.27534	5101.7
42.1490	0.7388	-0.0549	0.74087	0.66145	233.562	11.091	0.28935	4648.1	42.0023	0.7407	-0.0513	0.74250	0.66388	282.287	11.822	0.27549	5103.9
41.9102	0.7390	-0.0488	0.74066	0.66552	234.543	11.131	0.28950	4650.4	41.7798	0.7409	-0.0456	0.74231	0.66769	283.394	11.863	0.27562	5105.9
41.6714	0.7392	-0.0427	0.74047	0.66958	235.408	11.166	0.28964	4652.5	41.5573	0.7411	-0.0399	0.74215	0.67148	284.371	11.899	0.27573	5107.7
41.4327	0.7394	-0.0366	0.74031	0.67363	236.159	11.197	0.28976	4654.3	41.3348	0.7412	-0.0342	0.74200	0.67526	285.219	11.930	0.27583	5109.2
41.1939	0.7395	-0.0306	0.74017	0.67767	236.797	11.223	0.28986	4655.8	41.1123	0.7413	-0.0286	0.74188	0.67904	285.939	11.956	0.27592	5110.4
40.9551	0.7396	-0.0245	0.74005	0.68172	237.322	11.245	0.28995	4657.0	40.8899	0.7414	-0.0229	0.74178	0.68282	286.531	11.977	0.27599	5111.6
40.7163	0.7397	-0.0184	0.73996	0.68579	237.734	11.262	0.29001	4658.0	40.6674	0.7415	-0.0172	0.74170	0.68662	286.995	11.994	0.27604	5112.4
40.4775	0.7398	-0.0123	0.73990	0.68987	238.033	11.274	0.29006	4658.7	40.4449	0.7416	-0.0115	0.74165	0.69043	287.331	12.006	0.27608	5113.0
40.2388	0.7398	-0.0061	0.73986	0.69399	238.215	11.281	0.29009	4659.2	40.2224	0.7416	-0.0057	0.74161	0.69426	287.537	12.014	0.27611	5113.3
40.0000	0.7398	0.0000	0.73984	0.69813	238.281	11.284	0.29010	4659.3	40.0000	0.7416	-0.0000	0.74160	0.69813	287.611	12.017	0.27611	5113.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=42.0799 ENTRØPY=44.0393
GAMMA (AVG.)=1.1388 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.0799	0.7422	-0.0535	0.74414	0.66247	334.259	12.526	0.26393	5479.2
41.8719	0.7424	-0.0481	0.74395	0.66606	335.641	12.572	0.26406	5481.3
41.6659	0.7426	-0.0428	0.74379	0.66962	336.875	12.613	0.26418	5483.0
41.4559	0.7427	-0.0374	0.74364	0.67318	337.963	12.649	0.26428	5484.4
41.2479	0.7428	-0.0321	0.74352	0.67672	338.906	12.680	0.26437	5485.9
41.0399	0.7429	-0.0268	0.74341	0.68026	339.707	12.706	0.26444	5487.1
40.8319	0.7430	-0.0214	0.74332	0.68380	340.366	12.728	0.26450	5487.9
40.6239	0.7431	-0.0161	0.74325	0.68736	340.883	12.745	0.26454	5488.7
40.4160	0.7431	-0.0107	0.74320	0.69093	341.256	12.757	0.26458	5489.1
40.2080	0.7432	-0.0054	0.74317	0.69452	341.485	12.765	0.26460	5489.5
40.0000	0.7432	-0.0000	0.74316	0.69813	341.567	12.767	0.26461	5489.7

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.9472 ENTRØPY=45.3209
GAMMA (AVG.)=1.1285 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.9472	0.7438	-0.0502	0.74545	0.66470	392.101	13.311	0.25413	5785.3
41.7525	0.7439	-0.0452	0.74529	0.66806	393.620	13.357	0.25425	5787.2
41.5577	0.7441	-0.0402	0.74515	0.67140	394.976	13.397	0.25435	5788.8
41.3630	0.7442	-0.0351	0.74502	0.67474	396.171	13.433	0.25444	5790.2
41.1683	0.7443	-0.0301	0.74491	0.67806	397.209	13.464	0.25451	5791.3
40.9736	0.7444	-0.0251	0.74481	0.68138	398.089	13.490	0.25458	5792.5
40.7789	0.7445	-0.0201	0.74474	0.68470	398.813	13.512	0.25463	5793.3
40.5841	0.7445	-0.0151	0.74468	0.68804	399.390	13.529	0.25468	5794.0
40.3894	0.7446	-0.0101	0.74463	0.69138	399.790	13.541	0.25470	5794.4
40.1947	0.7446	-0.0051	0.74461	0.69474	400.041	13.549	0.25472	5794.8
40.0000	0.7446	-0.0000	0.74460	0.69813	400.131	13.552	0.25473	5794.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.8302 ENTRPHY=46.8345
GAMMA (AVG.)=1.1254 STAG. ENTHALPY=4.6120E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.8302	0.7451	-0.0473	0.74662	0.66668	454.576	14.100	0.24598	6041.1
41.6472	0.7453	-0.0426	0.74648	0.66984	456.231	14.144	0.24609	6042.8
41.4641	0.7454	-0.0378	0.74635	0.67299	457.709	14.185	0.24618	6044.3
41.2811	0.7455	-0.0331	0.74624	0.67612	459.012	14.221	0.24626	6045.6
41.0981	0.7456	-0.0284	0.74614	0.67925	460.142	14.252	0.24633	6046.8
40.9151	0.7457	-0.0237	0.74606	0.68238	461.102	14.278	0.24639	6047.7
40.7321	0.7457	-0.0189	0.74599	0.68550	461.891	14.300	0.24644	6048.5
40.5490	0.7458	-0.0142	0.74594	0.68864	462.509	14.317	0.24647	6049.1
40.3660	0.7458	-0.0095	0.74590	0.69179	462.955	14.329	0.24650	6049.6
40.1830	0.7459	-0.0048	0.74587	0.69495	463.229	14.336	0.24652	6049.9
40.0000	0.7459	-0.0000	0.74586	0.69813	463.326	14.339	0.24652	6049.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.7306 ENTRPHY=47.9803
GAMMA (AVG.)=1.1283 STAG. ENTHALPY=5.2901E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.7306	0.7463	-0.0448	0.74763	0.66837	521.678	14.855	0.23946	6269.5
41.5575	0.7464	-0.0403	0.74750	0.67136	523.474	14.901	0.23956	6271.1
41.3845	0.7465	-0.0358	0.74738	0.67433	525.077	14.941	0.23964	6272.6
41.2114	0.7466	-0.0314	0.74728	0.67730	526.492	14.976	0.23972	6274.0
41.0383	0.7467	-0.0269	0.74719	0.68026	527.719	15.007	0.23978	6275.1
40.8653	0.7468	-0.0224	0.74712	0.68322	528.761	15.033	0.23984	6276.0
40.6922	0.7468	-0.0180	0.74706	0.68618	529.617	15.055	0.23988	6276.8
40.5191	0.7469	-0.0135	0.74701	0.68915	530.288	15.072	0.23992	6277.3
40.3461	0.7469	-0.0090	0.74697	0.69213	530.772	15.084	0.23994	6277.8
40.1730	0.7469	-0.0045	0.74695	0.69512	531.068	15.091	0.23996	6278.1
40.0000	0.7469	-0.0000	0.74694	0.69813	531.174	15.094	0.23996	6278.1

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTR0P=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.5663 ENTR0P=51.4722
GAMMA (AVG.)=1.1501 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.5663	0.7482	-0.0407	0.74929	0.67117	709.690	16.314	0.22995	6893.0
41.4097	0.7483	-0.0366	0.74919	0.67387	711.899	16.358	0.23004	6895.0
41.2530	0.7484	-0.0325	0.74909	0.67657	713.873	16.397	0.23012	6896.8
41.0964	0.7485	-0.0285	0.74901	0.67925	715.614	16.432	0.23018	6898.2
40.9398	0.7485	-0.0244	0.74894	0.68194	717.125	16.463	0.23024	6899.5
40.7831	0.7486	-0.0204	0.74888	0.68462	718.408	16.488	0.23029	6900.6
40.6265	0.7486	-0.0163	0.74883	0.68731	719.462	16.509	0.23033	6901.5
40.4699	0.7487	-0.0122	0.74879	0.69000	720.287	16.526	0.23037	6902.3
40.3132	0.7487	-0.0082	0.74876	0.69270	720.883	16.538	0.23039	6902.8
40.1566	0.7487	-0.0041	0.74874	0.69541	721.248	16.545	0.23040	6903.1
40.0000	0.7487	-0.0000	0.74873	0.69813	721.378	16.548	0.23041	6903.1

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTR0P=31.0178

FLOW PROPERTIES

SHOCK ANGLE=41.5346 ENTR0P=51.0767
GAMMA (AVG.)=1.1594 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.5346	0.7486	-0.0399	0.74962	0.67171	926.639	16.633	0.22848	7928.9
41.3812	0.7487	-0.0359	0.74951	0.67436	929.464	16.676	0.22858	7931.7
41.2277	0.7487	-0.0319	0.74942	0.67700	931.989	16.714	0.22867	7934.2
41.0743	0.7488	-0.0279	0.74934	0.67964	934.216	16.747	0.22875	7936.7
40.9208	0.7489	-0.0239	0.74927	0.68227	936.150	16.776	0.22882	7938.8
40.7673	0.7489	-0.0199	0.74921	0.68489	937.790	16.801	0.22888	7940.4
40.6139	0.7490	-0.0160	0.74917	0.68753	939.139	16.821	0.22892	7941.8
40.4604	0.7490	-0.0120	0.74913	0.69016	940.194	16.837	0.22896	7942.8
40.3069	0.7491	-0.0080	0.74910	0.69281	940.956	16.849	0.22899	7943.7
40.1535	0.7491	-0.0040	0.74908	0.69546	941.422	16.856	0.22900	7944.1
40.0000	0.7491	0.0000	0.74908	0.69813	941.588	16.858	0.22901	7944.4

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=55.1030 ENTRØPY=31.6067
GAMMA (AVG.)=1.3792 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
55.1030	0.5720	-0.2473	0.62316	0.55363	6.920	3.316	0.87446	564.0
53.8427	0.5771	-0.2229	0.61864	0.57120	7.037	3.356	0.88588	566.7
52.5824	0.5817	-0.1986	0.61466	0.58872	7.141	3.392	0.89619	568.9
51.3221	0.5857	-0.1744	0.61115	0.60632	7.232	3.424	0.90545	570.9
50.0618	0.5893	-0.1502	0.60810	0.62414	7.312	3.451	0.91367	572.7
48.8015	0.5922	-0.1259	0.60547	0.64229	7.381	3.475	0.92086	574.1
47.5412	0.5947	-0.1014	0.60326	0.66088	7.439	3.494	0.92697	575.4
46.2809	0.5966	-0.0766	0.60149	0.68000	7.485	3.510	0.93193	576.4
45.0206	0.5979	-0.0515	0.60016	0.69978	7.520	3.522	0.93567	577.1
43.7603	0.5987	-0.0260	0.59930	0.72032	7.542	3.529	0.93805	577.5
42.5000	0.5990	0.0000	0.59897	0.74177	7.550	3.532	0.93894	577.7

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=51.5125 ENTRØPY=32.2634
GAMMA (AVG.)=1.3570 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.5125	0.6223	-0.1920	0.65124	0.59973	11.357	4.076	0.68295	753.1
50.6112	0.6251	-0.1729	0.64859	0.61351	11.514	4.117	0.68765	755.9
49.7100	0.6277	-0.1539	0.64625	0.62719	11.653	4.154	0.69184	758.3
48.8087	0.6299	-0.1349	0.64419	0.64084	11.776	4.186	0.69554	760.3
47.9075	0.6318	-0.1160	0.64241	0.65455	11.883	4.214	0.69878	762.2
47.0062	0.6335	-0.0970	0.64088	0.66840	11.975	4.238	0.70156	763.7
46.1050	0.6348	-0.0780	0.63961	0.68243	12.051	4.258	0.70388	765.0
45.2037	0.6359	-0.0588	0.63860	0.69672	12.112	4.274	0.70573	766.0
44.3025	0.6366	-0.0395	0.63785	0.71133	12.157	4.285	0.70710	766.7
43.4012	0.6371	-0.0199	0.63737	0.72632	12.185	4.293	0.70796	767.2
42.5000	0.6372	0.0000	0.63719	0.74177	12.196	4.295	0.70828	767.4

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=49.8613 ENTRØPY=32.8913
GAMMA (AVG.)=1.3358 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
49.8613	0.6446	-0.1627	0.66481	0.62304	17.102	4.699	0.59526	983.7
49.1251	0.6466	-0.1464	0.66293	0.63471	17.307	4.741	0.59812	986.6
48.3890	0.6483	-0.1302	0.66127	0.64628	17.489	4.778	0.60067	989.2
47.6529	0.6499	-0.1142	0.65982	0.65782	17.649	4.811	0.60292	991.5
46.9168	0.6512	-0.0981	0.65856	0.66938	17.788	4.839	0.60487	993.5
46.1806	0.6523	-0.0820	0.65748	0.68100	17.907	4.864	0.60654	995.1
45.4445	0.6533	-0.0658	0.65658	0.69274	18.006	4.884	0.60793	996.5
44.7084	0.6540	-0.0496	0.65587	0.70464	18.085	4.900	0.60903	997.6
43.9723	0.6545	-0.0332	0.65535	0.71674	18.142	4.911	0.60983	998.4
43.2361	0.6548	-0.0167	0.65502	0.72910	18.178	4.919	0.61034	998.9
42.5000	0.6549	-0.0000	0.65489	0.74176	18.192	4.921	0.61052	999.1

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=48.9128 ENTRØPY=33.5239
GAMMA (AVG.)=1.3199 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.9128	0.6572	-0.1447	0.67291	0.63702	24.136	5.210	0.54414	1252.1
48.2715	0.6587	-0.1302	0.67144	0.64739	24.395	5.252	0.54621	1255.3
47.6302	0.6601	-0.1158	0.67014	0.65766	24.626	5.290	0.54805	1258.2
46.9889	0.6613	-0.1014	0.66899	0.66790	24.829	5.323	0.54967	1260.7
46.3477	0.6623	-0.0871	0.66800	0.67814	25.005	5.352	0.55108	1262.9
45.7064	0.6632	-0.0728	0.66716	0.68842	25.156	5.376	0.55227	1264.7
45.0651	0.6639	-0.0584	0.66646	0.69878	25.281	5.396	0.55327	1266.2
44.4238	0.6645	-0.0440	0.66591	0.70926	25.380	5.412	0.55405	1267.4
43.7825	0.6648	-0.0294	0.66550	0.71989	25.453	5.424	0.55463	1268.3
43.1413	0.6651	-0.0148	0.66524	0.73071	25.498	5.431	0.55498	1268.8
42.5000	0.6651	-0.0000	0.66514	0.74176	25.514	5.434	0.55512	1269.0

CONE SEMI-ANGLE=42.5

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=47.8842 ENTRPHY=34.7352
GAMMA (AVG.)=1.3019 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=46.9456 ENTRPHY=35.9385
GAMMA (AVG.)=1.1290 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.8842	0.6706	-0.1241	0.68201	0.652269	42.052	5.975	0.48806	1902.1	46.9456	0.6827	-0.1049	0.69069	0.66694	65.023	6.968	0.40848	2482.8
47.3458	0.6717	-0.1117	0.68094	0.66155	42.442	6.018	0.48945	1906.2	46.5010	0.6834	-0.0943	0.68992	0.67450	65.539	7.017	0.40912	2484.9
46.8074	0.6727	-0.0993	0.67998	0.67034	42.790	6.056	0.49068	1909.8	46.0565	0.6841	-0.0838	0.68924	0.68196	65.998	7.060	0.40969	2486.4
46.2690	0.6736	-0.0870	0.67915	0.67909	43.096	6.089	0.49177	1912.9	45.6119	0.6847	-0.0733	0.68865	0.68938	66.401	7.098	0.41019	2488.1
45.7305	0.6743	-0.0747	0.67843	0.68784	43.362	6.118	0.49271	1915.7	45.1673	0.6853	-0.0629	0.68813	0.69676	66.750	7.130	0.41062	2489.5
45.1921	0.6749	-0.0624	0.67781	0.69661	43.590	6.142	0.49351	1918.0	44.7228	0.6857	-0.0525	0.68770	0.70414	67.047	7.159	0.41099	2490.4
44.6537	0.6755	-0.0500	0.67730	0.70543	43.777	6.163	0.49417	1919.9	44.2782	0.6860	-0.0421	0.68734	0.71154	67.291	7.181	0.41126	2491.5
44.1152	0.6759	-0.0376	0.67690	0.71433	43.926	6.179	0.49469	1921.4	43.8337	0.6863	-0.0316	0.68706	0.71898	67.484	7.199	0.41151	2492.2
43.5768	0.6761	-0.0252	0.67660	0.72333	44.034	6.190	0.49507	1922.5	43.3891	0.6865	-0.0212	0.68685	0.72648	67.624	7.212	0.41186	2492.7
43.0384	0.6763	-0.0126	0.67642	0.73247	44.101	6.198	0.49531	1923.2	42.9445	0.6866	-0.0106	0.68672	0.73407	67.710	7.220	0.41180	2493.1
42.5000	0.6763	0.0000	0.67635	0.74177	44.125	6.200	0.49539	1923.4	42.5000	0.6867	-0.0000	0.68667	0.74176	67.741	7.224	0.41184	2493.0

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=46.0002 ENTRØPY=37.1154
GAMMA (AVG.)=1.1198 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
46.0002	0.6946	-0.0841	0.69972	0.68235	93.1119	8.551	0.35912	2789.8
45.6502	0.6951	-0.0757	0.69924	0.68834	93.705	8.599	0.35954	2791.5
45.3001	0.6956	-0.0672	0.69881	0.69427	94.226	8.640	0.35991	2793.2
44.9501	0.6959	-0.0588	0.69843	0.70017	94.685	8.677	0.36024	2794.6
44.6001	0.6963	-0.0505	0.69810	0.70606	95.082	8.709	0.36053	2795.6
44.2501	0.6965	-0.0421	0.69782	0.71193	95.420	8.736	0.36076	2796.6
43.9001	0.6968	-0.0337	0.69759	0.71782	95.698	8.759	0.36096	2797.4
43.5500	0.6970	-0.0254	0.69741	0.72373	95.917	8.776	0.36114	2798.1
43.2000	0.6971	-0.0169	0.69728	0.72968	96.075	8.789	0.36124	2798.3
42.8500	0.6971	-0.0085	0.69720	0.73568	96.173	8.797	0.36130	2798.7
42.5000	0.6972	-0.0000	0.69717	0.74175	96.208	8.800	0.36134	2798.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=45.4363 ENTRØPY=38.3121
GAMMA (AVG.)=1.1513 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
45.4363	0.7017	-0.0713	0.70531	0.69175	126.350	9.993	0.33260	3099.5
45.1427	0.7020	-0.0641	0.70496	0.69678	127.017	10.038	0.33292	3101.2
44.8491	0.7023	-0.0570	0.70466	0.70178	127.611	10.080	0.33322	3102.5
44.5554	0.7026	-0.0499	0.70439	0.70675	128.135	10.115	0.33348	3104.2
44.2618	0.7029	-0.0428	0.70415	0.71171	128.589	10.146	0.33370	3105.3
43.9682	0.7030	-0.0357	0.70395	0.71667	128.975	10.173	0.33388	3106.2
43.6745	0.7032	-0.0286	0.70379	0.72163	129.293	10.195	0.33404	3106.9
43.3809	0.7033	-0.0215	0.70366	0.72662	129.542	10.211	0.33416	3107.6
43.0872	0.7034	-0.0143	0.70357	0.73163	129.723	10.223	0.33425	3108.4
42.7936	0.7035	-0.0072	0.70351	0.73668	129.834	10.231	0.33431	3108.4
42.5000	0.7035	0.0000	0.70349	0.74177	129.874	10.233	0.33433	3108.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=45.1517 ENTROPY=39.5507
GAMMA (AVG.)=1.2051 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.1517	0.7052	-0.0647	0.70819	0.69654	164.706	10.956	0.32299	3512.7
44.8865	0.7055	-0.0582	0.70791	0.70108	165.490	11.000	0.32331	3514.9
44.6214	0.7058	-0.0518	0.70766	0.70559	166.189	11.038	0.32366	3517.2
44.3562	0.7060	-0.0453	0.70743	0.71008	166.806	11.074	0.32380	3518.5
44.0910	0.7062	-0.0389	0.70724	0.71457	167.341	11.103	0.32401	3520.1
43.8258	0.7063	-0.0324	0.70708	0.71905	167.796	11.128	0.32416	3521.7
43.5607	0.7065	-0.0260	0.70694	0.72355	168.171	11.149	0.32431	3522.5
43.2955	0.7066	-0.0195	0.70684	0.72806	168.465	11.165	0.32442	3523.5
43.0303	0.7066	-0.0130	0.70676	0.73260	168.678	11.177	0.32450	3524.2
42.7651	0.7067	-0.0065	0.70671	0.73716	168.808	11.183	0.32455	3524.7
42.5000	0.7067	0.0000	0.70670	0.74176	168.855	11.187	0.32457	3524.6

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=45.2468 ENTROPY=41.0517
GAMMA (AVG.)=1.2170 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.2468	0.7041	-0.0669	0.70722	0.69497	208.205	10.616	0.33041	4357.4
44.9721	0.7044	-0.0602	0.70692	0.69966	209.231	10.660	0.33067	4360.6
44.6975	0.7046	-0.0535	0.70665	0.70433	210.147	10.699	0.33090	4363.4
44.4228	0.7049	-0.0468	0.70641	0.70897	210.955	10.734	0.33110	4365.9
44.1481	0.7051	-0.0402	0.70621	0.71361	211.657	10.764	0.33128	4368.1
43.8734	0.7052	-0.0335	0.70603	0.71826	212.253	10.789	0.33143	4369.8
43.5987	0.7054	-0.0268	0.70589	0.72291	212.745	10.810	0.33155	4371.5
43.3240	0.7055	-0.0202	0.70578	0.72758	213.130	10.827	0.33165	4372.6
43.0493	0.7056	-0.0135	0.70569	0.73227	213.409	10.839	0.33172	4373.4
42.7747	0.7056	-0.0067	0.70564	0.73700	213.581	10.846	0.33176	4373.9
42.5000	0.7056	0.0000	0.70562	0.74176	213.642	10.849	0.33178	4374.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRORPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=45.0296 ENTRORPY=42.1891
GAMMA (AVG.)=1.1701 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ. ENTRORPY=43.4887

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.0296	0.7067	-0.0619	0.70945	0.69854	256.762	11.428	0.31040	4887.8
44.7766	0.7070	-0.0557	0.70919	0.70288	257.933	11.473	0.31060	4890.2
44.5237	0.7072	-0.0495	0.70896	0.70720	258.978	11.514	0.31077	4892.3
44.2707	0.7074	-0.0433	0.70875	0.71150	259.899	11.549	0.31092	4894.1
44.0177	0.7076	-0.0372	0.70858	0.71579	260.699	11.580	0.31106	4895.8
43.7648	0.7078	-0.0310	0.70843	0.72008	261.379	11.606	0.31117	4897.1
43.5118	0.7079	-0.0248	0.70831	0.72437	261.938	11.628	0.31127	4898.3
43.2589	0.7080	-0.0186	0.70821	0.72868	262.376	11.645	0.31134	4899.2
43.0059	0.7080	-0.0124	0.70814	0.73301	262.693	11.657	0.31139	4899.8
42.7529	0.7081	-0.0062	0.70810	0.73737	262.888	11.664	0.31143	4900.3
42.5000	0.7081	0.0000	0.70808	0.74177	262.958	11.667	0.31144	4900.4

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRORPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=44.8548 ENTRORPY=43.4887
GAMMA (AVG.)=1.1459 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.8548	0.7089	-0.0578	0.71125	0.70144	310.437	12.193	0.29606	5324.1
44.6193	0.7091	-0.0520	0.71102	0.70550	311.758	12.239	0.29623	5326.0
44.3838	0.7093	-0.0463	0.71082	0.70952	312.937	12.279	0.29637	5328.0
44.1484	0.7095	-0.0405	0.71065	0.71354	313.977	12.315	0.29650	5329.6
43.9129	0.7096	-0.0347	0.71049	0.71754	314.879	12.346	0.29662	5331.0
43.6774	0.7098	-0.0290	0.71036	0.72155	315.645	12.373	0.29672	5332.3
43.4419	0.7099	-0.0232	0.71026	0.72556	316.275	12.394	0.29679	5333.3
43.2064	0.7100	-0.0174	0.71017	0.72958	316.769	12.411	0.29686	5334.0
42.9709	0.7100	-0.0116	0.71011	0.73361	317.126	12.424	0.29690	5334.5
42.7355	0.7100	-0.0058	0.71007	0.73767	317.345	12.431	0.29693	5334.9
42.5000	0.7101	0.0000	0.71006	0.74177	317.423	12.433	0.29693	5335.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=44.6942 ENTRØPY=44.8225
GAMMA (AVG.)=1.1315 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.6942	0.7109	-0.0541	0.71292	0.70413	369.225	13.005	0.28375	5674.5
44.4748	0.7111	-0.0487	0.71273	0.70792	370.691	13.051	0.28390	5676.2
44.2554	0.7112	-0.0432	0.71255	0.71168	372.000	13.092	0.28403	5677.9
44.0360	0.7114	-0.0378	0.71240	0.71543	373.154	13.128	0.28414	5679.5
43.8165	0.7115	-0.0325	0.71226	0.71917	374.156	13.159	0.28424	5680.7
43.5971	0.7116	-0.0271	0.71215	0.72291	375.005	13.186	0.28432	5681.7
43.3777	0.7117	-0.0217	0.71206	0.72665	375.704	13.207	0.28439	5682.7
43.1583	0.7118	-0.0163	0.71198	0.73040	376.252	13.224	0.28444	5683.3
42.9388	0.7118	-0.0109	0.71193	0.73417	376.648	13.236	0.28448	5683.9
42.7194	0.7119	-0.0054	0.71190	0.73795	376.891	13.244	0.28451	5684.0
42.5000	0.7119	0.0000	0.71188	0.74177	376.977	13.247	0.28452	5684.3

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=44.5512 ENTRØPY=46.1907
GAMMA (AVG.)=1.1257 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.5512	0.7126	-0.0507	0.71442	0.70654	433.125	13.837	0.27340	5959.7
44.3461	0.7128	-0.0456	0.71425	0.71008	434.734	13.882	0.27361	5961.5
44.1410	0.7129	-0.0405	0.71410	0.71360	436.171	13.923	0.27372	5962.9
43.9358	0.7131	-0.0355	0.71396	0.71711	437.437	13.958	0.27382	5964.3
43.7307	0.7132	-0.0304	0.71384	0.72061	438.537	13.990	0.27391	5965.3
43.5256	0.7133	-0.0254	0.71374	0.72411	439.470	14.016	0.27398	5966.3
43.3205	0.7134	-0.0203	0.71366	0.72762	440.237	14.038	0.27404	5967.2
43.1154	0.7134	-0.0153	0.71360	0.73113	440.838	14.054	0.27409	5967.9
42.9102	0.7135	-0.0102	0.71355	0.73466	441.272	14.067	0.27413	5968.3
42.7051	0.7135	-0.0051	0.71352	0.73820	441.538	14.074	0.27415	5968.6
42.5000	0.7135	-0.0000	0.71351	0.74176	441.632	14.077	0.27416	5968.7

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 30274.7 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=44.4291 ENTRBPY=47.5946
 GAMMA (AVG.)=1.1269 STAG. ENTHALPY=4.8120E 08 FT. SQ./SEC. SQ.

ETA	VR	VH	V	THETA	P	RHO	MU	T (K)
44.3296	0.7153	-0.0454	0.71677	0.71029	576.270	15.386	0.25896	6442.4
44.1406	0.7155	-0.0409	0.71663	0.71345	578.181	15.431	0.25907	6444.1
43.9637	0.7156	-0.0363	0.71651	0.71660	579.887	15.471	0.25917	6445.6
43.7807	0.7157	-0.0318	0.71640	0.71973	581.392	15.506	0.25926	6447.0
43.5977	0.7158	-0.0273	0.71631	0.72287	582.698	15.538	0.25933	6447.9
43.4148	0.7159	-0.0227	0.71623	0.72600	583.806	15.563	0.25939	6449.0
43.2310	0.7159	-0.0182	0.71616	0.72913	584.717	15.585	0.25945	6449.7
43.0488	0.7160	-0.0137	0.71611	0.73227	585.431	15.601	0.25948	6450.5
42.8659	0.7160	-0.0091	0.71607	0.73542	585.946	15.614	0.25952	6451.0
42.6829	0.7160	-0.0046	0.71605	0.73858	586.261	15.621	0.25953	6451.1
42.5000	0.7160	-0.0000	0.71604	0.74176	586.374	15.624	0.25954	6451.2

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 32437.7 FT./SEC. ENTRBPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=44.3296 ENTRBPY=49.0 6
 GAMMA (AVG.)=1.1335 STAG. ENTHALPY=5.2901E 08 FT. S. /SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.3296	0.7153	-0.0454	0.71677	0.71029	576.270	15.386	0.25896	6442.4
44.1406	0.7155	-0.0409	0.71663	0.71345	578.181	15.431	0.25907	6444.1
43.9637	0.7156	-0.0363	0.71651	0.71660	579.887	15.471	0.25917	6445.6
43.7807	0.7157	-0.0318	0.71640	0.71973	581.392	15.506	0.25926	6447.0
43.5977	0.7158	-0.0273	0.71631	0.72287	582.698	15.538	0.25933	6447.9
43.4148	0.7159	-0.0227	0.71623	0.72600	583.806	15.563	0.25939	6449.0
43.2310	0.7159	-0.0182	0.71616	0.72913	584.717	15.585	0.25945	6449.7
43.0488	0.7160	-0.0137	0.71611	0.73227	585.431	15.601	0.25948	6450.5
42.8659	0.7160	-0.0091	0.71607	0.73542	585.946	15.614	0.25952	6451.0
42.6829	0.7160	-0.0046	0.71605	0.73858	586.261	15.621	0.25953	6451.1
42.5000	0.7160	-0.0000	0.71604	0.74176	586.374	15.624	0.25954	6451.2

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRPHY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=44.1884 ENTRPHY=52.7547
GAMMA (AVG.)=1.1581 STAG. ENTHALPHY=7.1890E 00 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.1884	0.7171	-0.0420	0.71828	0.71270	783.981	16.588	0.25134	7193.0
44.0196	0.7172	-0.0378	0.71816	0.71562	786.378	16.632	0.25144	7195.2
43.8507	0.7173	-0.0336	0.71806	0.71852	788.520	16.671	0.25153	7197.1
43.6819	0.7174	-0.0294	0.71797	0.72142	790.410	16.705	0.25161	7198.8
43.5130	0.7174	-0.0252	0.71788	0.72431	792.050	16.735	0.25168	7200.3
43.3442	0.7175	-0.0210	0.71782	0.72720	793.442	16.761	0.25174	7201.6
43.1754	0.7176	-0.0168	0.71776	0.73010	794.586	16.782	0.25179	7202.5
43.0065	0.7176	-0.0126	0.71772	0.73300	795.482	16.798	0.25183	7203.4
42.8377	0.7176	-0.0084	0.71768	0.73591	796.129	16.810	0.25185	7204.0
42.6688	0.7177	-0.0042	0.71766	0.73883	796.524	16.817	0.25187	7204.3
42.5000	0.7177	-0.0000	0.71766	0.74176	796.665	16.819	0.25188	7204.5

CBNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRPHY=31.0178

FLBM PROPERTIES

SHOCK ANGLE=44.2298 ENTRPHY=56.5616
GAMMA (AVG.)=1.2397 STAG. ENTHALPHY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.2298	0.7165	-0.0430	0.71784	0.71204	1023.730	16.228	0.26334	8635.1
44.0568	0.7167	-0.0387	0.71771	0.71501	1026.926	16.269	0.26346	8639.3
43.8838	0.7168	-0.0344	0.71760	0.71798	1029.783	16.306	0.26357	8643.1
43.7109	0.7169	-0.0301	0.71751	0.72094	1032.306	16.338	0.26366	8646.5
43.5379	0.7170	-0.0258	0.71742	0.72390	1034.497	16.366	0.26375	8649.4
43.3649	0.7170	-0.0215	0.71735	0.72686	1036.356	16.390	0.26382	8651.7
43.1919	0.7171	-0.0172	0.71729	0.72982	1037.886	16.409	0.26387	8653.8
43.0189	0.7171	-0.0129	0.71725	0.73279	1039.084	16.425	0.26392	8655.4
42.8459	0.7172	-0.0086	0.71721	0.73577	1039.949	16.436	0.26396	8656.5
42.6730	0.7172	-0.0043	0.71719	0.73874	1040.477	16.443	0.26397	8657.1
42.5000	0.7172	0.0000	0.71718	0.74171	1040.666	16.445	0.26398	8657.3

CBME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 3243.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=58.9012 ENTRPHY=31.7753
GAMMA (AVG.)=1.3759 STAG. ENTHALPY=8.1828E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
56.9012	0.5164	-0.2480	0.57288	0.58022	7.562	3.451	1.02374	592.2
57.5111	0.5221	-0.2236	0.56794	0.59801	7.684	3.492	1.04164	594.8
58.1210	0.5271	-0.1994	0.56358	0.61786	7.792	3.528	1.05815	597.0
58.7309	0.5316	-0.1752	0.55973	0.63691	7.888	3.559	1.07328	599.0
59.3407	0.5355	-0.1509	0.55637	0.65627	7.972	3.586	1.08701	600.8
59.9506	0.5388	-0.1265	0.55347	0.67607	8.044	3.610	1.09923	602.2
50.5605	0.5415	-0.1019	0.55104	0.69640	8.104	3.630	1.10979	603.5
49.1703	0.5436	-0.0771	0.54907	0.71738	8.153	3.645	1.11850	604.5
47.7802	0.5451	-0.0518	0.54760	0.73913	8.189	3.657	1.12513	605.2
46.3901	0.5460	-0.0262	0.54666	0.76176	8.212	3.665	1.12941	605.7
45.0000	0.5463	0.0000	0.54628	0.78540	8.221	3.668	1.13101	605.8

CBME SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=54.7970 ENTRPHY=32.3872
GAMMA (AVG.)=1.3524 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
54.7970	0.5764	-0.1940	0.60819	0.63168	12.404	4.211	0.76649	796.2
53.8173	0.5795	-0.1747	0.60529	0.64646	12.570	4.252	0.77266	798.9
52.8376	0.5823	-0.1555	0.60273	0.66117	12.717	4.289	0.77818	801.4
51.8579	0.5848	-0.1364	0.60048	0.67590	12.846	4.321	0.78309	803.5
50.8782	0.5869	-0.1173	0.59852	0.69073	12.959	4.349	0.78739	805.3
49.8985	0.5887	-0.0981	0.59685	0.70572	13.056	4.373	0.79110	806.9
48.9188	0.5902	-0.0789	0.59545	0.72093	13.136	4.393	0.79420	808.2
47.9391	0.5914	-0.0595	0.59434	0.73644	13.201	4.409	0.79669	809.2
46.9594	0.5922	-0.0399	0.59352	0.75231	13.248	4.421	0.79863	810.0
45.9797	0.5927	-0.0201	0.59299	0.76860	13.278	4.428	0.79969	810.4
45.0000	0.5928	0.0000	0.59279	0.78540	13.289	4.431	0.80011	810.6

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 5406.2 FT./SEC. ENTRBPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.9866 ENTRBPV=33.0461
 GAMMA (AVG.)=1.3313 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.9866	0.6020	-0.1052	0.62422	0.65694	18.698	4.833	0.66199	1045.7
52.1879	0.6041	-0.1487	0.62216	0.66980	18.915	4.875	0.66562	1048.7
51.3893	0.6061	-0.1923	0.62033	0.68198	19.108	4.912	0.66886	1051.3
50.5906	0.6078	-0.2360	0.61873	0.69443	19.278	4.945	0.67172	1053.6
49.7919	0.6092	-0.2796	0.61734	0.70693	19.426	4.974	0.67422	1055.6
48.9933	0.6105	-0.3233	0.61615	0.71951	19.552	4.998	0.67635	1057.4
48.1946	0.6115	-0.3669	0.61517	0.73222	19.657	5.018	0.67813	1058.8
47.3960	0.6123	-0.4104	0.61439	0.74512	19.741	5.034	0.67954	1059.9
46.5973	0.6129	-0.4538	0.61381	0.75825	19.802	5.046	0.68058	1060.7
45.7986	0.6132	-0.4970	0.61344	0.77166	19.840	5.053	0.68123	1061.2
45.0000	0.6133	-0.5400	0.61330	0.78540	19.854	5.056	0.68146	1061.4

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 6487.4 FT./SEC. ENTRBPV=31.0178

FLOW PROPERTIES

SHOCK ANGLE=51.9608 ENTRBPV=33.7045
 GAMMA (AVG.)=1.3163 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.9608	0.6162	-0.1475	0.63357	0.67196	26.409	5.340	0.60323	1336.6
51.2647	0.6179	-0.1927	0.63195	0.68313	26.685	5.382	0.60582	1340.0
50.5686	0.6194	-0.2381	0.63051	0.69423	26.930	5.420	0.60813	1342.9
49.8725	0.6207	-0.2834	0.62925	0.70529	27.146	5.453	0.61016	1345.5
49.1765	0.6218	-0.3288	0.62815	0.71638	27.335	5.482	0.61193	1347.7
48.4804	0.6228	-0.3742	0.62722	0.72752	27.495	5.506	0.61344	1349.6
47.7943	0.6236	-0.4196	0.62645	0.73875	27.629	5.526	0.61469	1351.2
47.0882	0.6242	-0.4649	0.62583	0.75012	27.734	5.542	0.61568	1352.4
46.3921	0.6247	-0.5100	0.62538	0.76165	27.811	5.554	0.61641	1353.4
45.6961	0.6249	-0.5551	0.62510	0.77340	27.859	5.561	0.61686	1353.9
45.0000	0.6250	-0.6000	0.62499	0.78540	27.877	5.564	0.61702	1354.1

CONE SF-1-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=50.8615 ENTRPHY=34.9546
GAMMA (AVG.)=1.2999 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.8615	0.6312	-0.1274	0.64390	0.68860	46.052	6.090	0.54032	2043.7
50.2753	0.6324	-0.1146	0.64270	0.69820	46.470	6.133	0.54205	2048.0
49.6892	0.6335	-0.1019	0.64164	0.70773	46.843	6.171	0.54358	2051.7
49.1030	0.6345	-0.0893	0.64071	0.71723	47.172	6.204	0.54493	2055.1
48.5169	0.6353	-0.0766	0.63991	0.72673	47.457	6.233	0.54610	2057.9
47.9307	0.6360	-0.0640	0.63922	0.73626	47.701	6.257	0.54710	2060.3
47.3446	0.6366	-0.0513	0.63865	0.74585	47.903	6.278	0.54793	2062.4
46.7584	0.6370	-0.0386	0.63820	0.75553	48.062	6.294	0.54858	2063.9
46.1723	0.6373	-0.0258	0.63787	0.76533	48.178	6.305	0.54906	2065.1
45.5861	0.6375	-0.0130	0.63766	0.77528	48.250	6.313	0.54935	2065.8
45.0000	0.6376	0.0000	0.63759	0.78540	48.276	6.315	0.54946	2066.0

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.6317 ENTRPHY=36.2157
GAMMA (AVG.)=1.1224 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.6317	0.6477	-0.1038	0.65595	0.70739	71.201	7.343	0.43904	2557.4
49.1685	0.6485	-0.0933	0.65515	0.71525	71.733	7.391	0.43980	2559.3
48.7054	0.6492	-0.0829	0.65445	0.72303	72.206	7.434	0.44045	2560.9
48.2422	0.6498	-0.0726	0.65384	0.73075	72.622	7.472	0.44104	2562.3
47.7790	0.6503	-0.0623	0.65331	0.73845	72.982	7.505	0.44154	2563.5
47.3158	0.6508	-0.0520	0.65286	0.74615	73.288	7.532	0.44195	2564.8
46.8527	0.6512	-0.0416	0.65249	0.75387	73.541	7.555	0.44231	2565.6
46.3895	0.6514	-0.0310	0.65220	0.76164	73.739	7.573	0.44257	2566.4
45.9263	0.6516	-0.0209	0.65198	0.76946	73.884	7.587	0.44280	2566.7
45.4631	0.6518	-0.0105	0.65185	0.77737	73.973	7.594	0.44289	2567.1
45.0000	0.6518	-0.0000	0.65180	0.78539	74.005	7.597	0.44296	2567.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NUMBER=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=48.6542 ENTRPHY=37.4502
GAMMA (AVG.)=1.1252 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.6542	0.6606	-0.0836	0.66586	0.72336	101.976	8.985	0.38759	2873.7
48.2888	0.6611	-0.0752	0.66535	0.72960	102.583	9.031	0.38807	2875.4
47.9234	0.6615	-0.0668	0.66491	0.73579	103.122	9.072	0.38851	2876.9
47.5580	0.6619	-0.0585	0.66451	0.74195	103.597	9.109	0.38889	2878.1
47.1925	0.6623	-0.0501	0.66417	0.74809	104.010	9.141	0.38923	2879.4
46.8271	0.6626	-0.0418	0.66388	0.75423	104.360	9.167	0.38950	2880.6
46.4617	0.6628	-0.0335	0.66365	0.76039	104.648	9.190	0.38972	2881.1
46.0963	0.6630	-0.0252	0.66346	0.76656	104.874	9.206	0.38991	2882.0
45.7308	0.6631	-0.0168	0.66332	0.77278	105.039	9.219	0.39006	2882.5
45.3654	0.6632	-0.0084	0.66324	0.77905	105.139	9.228	0.39012	2882.4
45.0000	0.6632	-0.0000	0.66321	0.78539	105.176	9.230	0.39017	2882.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NUMBER=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=48.1018 ENTRPHY=38.7128
GAMMA (AVG.)=1.1677 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.1018	0.6678	-0.0717	0.67164	0.73257	138.381	10.381	0.36241	3217.6
47.7916	0.6682	-0.0645	0.67128	0.73787	139.080	10.427	0.36281	3219.2
47.4814	0.6685	-0.0573	0.67095	0.74314	139.704	10.467	0.36314	3220.9
47.1712	0.6688	-0.0502	0.67066	0.74839	140.254	10.501	0.36345	3222.7
46.8610	0.6690	-0.0430	0.67041	0.75363	140.731	10.532	0.36371	3223.7
46.5509	0.6692	-0.0359	0.67020	0.75887	141.136	10.559	0.36394	3224.7
46.2407	0.6694	-0.0288	0.67003	0.76412	141.470	10.580	0.36414	3225.5
45.9305	0.6695	-0.0216	0.66989	0.76938	141.732	10.596	0.36428	3226.5
45.6203	0.6696	-0.0144	0.66979	0.77468	141.922	10.608	0.36436	3226.9
45.3102	0.6697	-0.0072	0.66973	0.78002	142.038	10.616	0.36444	3227.2
45.0000	0.6697	0.0000	0.66971	0.78540	142.080	10.619	0.36447	3227.2

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=47.9129 ENTROPY=40.0918
GAMMA (AVG.)=1.2246 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.9129	0.6703	-0.0676	0.67365	0.73577	180.418	10.984	0.35932	3761.2
47.6216	0.6706	-0.0608	0.67333	0.74074	181.273	11.026	0.35969	3764.1
47.3303	0.6709	-0.0540	0.67304	0.74568	182.036	11.064	0.36000	3766.5
47.0390	0.6711	-0.0473	0.67279	0.75060	182.710	11.096	0.36027	3769.1
46.7477	0.6713	-0.0406	0.67257	0.75553	183.295	11.125	0.36050	3771.0
46.4564	0.6715	-0.0339	0.67238	0.76045	183.792	11.149	0.36072	3772.8
46.1652	0.6717	-0.0271	0.67223	0.76538	184.201	11.168	0.36088	3774.3
45.8739	0.6718	-0.0204	0.67210	0.77034	184.522	11.184	0.36101	3775.3
45.5826	0.6719	-0.0136	0.67202	0.77532	184.755	11.196	0.36111	3775.9
45.2913	0.6719	-0.0068	0.67196	0.78033	184.898	11.203	0.36116	3776.5
45.0000	0.6719	-0.0000	0.67194	0.78539	184.949	11.205	0.36118	3776.9

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=47.9170 ENTROPY=41.4972
GAMMA (AVG.)=1.1923 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.9170	0.6702	-0.0677	0.67361	0.73567	228.071	10.967	0.35454	4598.5
47.6253	0.6705	-0.0609	0.67329	0.74066	229.157	11.012	0.35483	4601.3
47.3336	0.6708	-0.0541	0.67300	0.74562	230.126	11.052	0.35508	4603.7
47.0419	0.6711	-0.0474	0.67274	0.75056	230.981	11.087	0.35530	4605.9
46.7502	0.6713	-0.0406	0.67252	0.75549	231.724	11.118	0.35550	4607.7
46.4585	0.6715	-0.0339	0.67233	0.76042	232.355	11.144	0.35566	4609.3
46.1668	0.6716	-0.0271	0.67218	0.76537	232.874	11.166	0.35580	4610.5
45.8751	0.6717	-0.0204	0.67206	0.77033	233.282	11.182	0.35591	4611.4
45.5834	0.6718	-0.0136	0.67197	0.77532	233.577	11.194	0.35598	4612.2
45.2917	0.6719	-0.0068	0.67191	0.78034	233.758	11.202	0.35603	4612.6
45.0000	0.6719	0.0000	0.67189	0.78540	233.823	11.205	0.35604	4612.8

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.178

FLOW PROPERTIES

SHOCK ANGLE=47.6919 ENTROPY=42.7928
GAMMA (AVG.)=1.1574 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.6919	0.6731	-0.0628	0.67604	0.73938	281.272	11.780	0.33485	5103.4
47.4227	0.6734	-0.0565	0.67576	0.74400	282.514	11.825	0.33508	5105.9
47.1535	0.6736	-0.0502	0.67551	0.74860	283.622	11.866	0.33528	5107.8
46.8843	0.6739	-0.0439	0.67529	0.75317	284.599	11.902	0.33545	5109.5
46.6151	0.6740	-0.0377	0.67510	0.75774	285.447	11.933	0.33561	5111.1
46.3459	0.6742	-0.0314	0.67494	0.76231	286.167	11.959	0.33574	5112.3
46.0767	0.6743	-0.0252	0.67481	0.76688	286.760	11.981	0.33584	5113.3
45.8075	0.6744	-0.0189	0.67470	0.77147	287.225	11.998	0.33593	5114.2
45.5384	0.6745	-0.0126	0.67463	0.77608	287.561	12.010	0.33599	5114.8
45.2692	0.6745	-0.0063	0.67458	0.78072	287.767	12.018	0.33603	5115.1
45.0000	0.6746	0.0000	0.67456	0.78540	287.841	12.020	0.33604	5115.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=47.6968 ENTROPY=44.1716
GAMMA (AVG.)=1.1373 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.4968	0.6756	-0.0585	0.67816	0.74263	340.076	12.606	0.31917	5514.3
47.2471	0.6759	-0.0526	0.67791	0.74693	341.472	12.652	0.31936	5516.3
46.9974	0.6761	-0.0468	0.67770	0.75120	342.718	12.693	0.31953	5518.0
46.7478	0.6763	-0.0409	0.67751	0.75546	343.817	12.729	0.31968	5519.6
46.4981	0.6764	-0.0351	0.67734	0.75971	344.771	12.760	0.31982	5520.9
46.2484	0.6766	-0.0293	0.67720	0.76395	345.580	12.786	0.31992	5522.0
45.9987	0.6767	-0.0234	0.67709	0.76821	346.246	12.808	0.32002	5523.0
45.7490	0.6768	-0.0176	0.67700	0.77247	346.768	12.825	0.32009	5523.7
45.4994	0.6768	-0.0118	0.67693	0.77675	347.146	12.837	0.32014	5524.2
45.2497	0.6769	-0.0059	0.67689	0.78106	347.377	12.845	0.32017	5524.5
45.0000	0.6769	0.0000	0.67688	0.78540	347.459	12.848	0.32018	5524.6

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRPHY=31.0178

FLWM PROPERTIES

SHOCK ANGLE=47.3209 ENTRPHY=45.5865
GAMMA (AVG.)=1.1273 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.3209	0.6779	-0.0546	0.68008	0.74558	404.479	13.472	0.30599	5841.1
47.0888	0.6781	-0.0491	0.67987	0.74958	406.026	13.518	0.30615	5842.9
46.8567	0.6783	-0.0436	0.67969	0.75356	407.406	13.559	0.30630	5844.4
46.6246	0.6784	-0.0382	0.67952	0.75753	408.623	13.594	0.30643	5845.8
46.3925	0.6786	-0.0327	0.67938	0.76148	409.680	13.625	0.30654	5847.0
46.1604	0.6787	-0.0273	0.67926	0.76544	410.576	13.652	0.30663	5848.0
45.9284	0.6788	-0.0219	0.67916	0.76940	411.313	13.674	0.30671	5848.9
45.6963	0.6789	-0.0164	0.67908	0.77337	411.891	13.690	0.30677	5849.6
45.4642	0.6789	-0.0110	0.67902	0.77736	412.309	13.703	0.30682	5850.1
45.2321	0.6790	-0.0055	0.67899	0.78137	412.564	13.710	0.30685	5850.3
45.0000	0.6790	0.0000	0.67897	0.78540	412.655	13.713	0.30685	5850.2

CBNE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRPHY=31.0178

FLWM PROPERTIES

SHOCK ANGLE=47.1691 ENTRPHY=47.0404
GAMMA (AVG.)=1.1257 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.1691	0.6798	-0.0512	0.68176	0.74814	474.485	14.334	0.29531	6112.3
46.9522	0.6800	-0.0460	0.68157	0.75188	476.182	14.379	0.29546	6114.0
46.7353	0.6802	-0.0409	0.68141	0.75561	477.698	14.420	0.29559	6115.6
46.5184	0.6803	-0.0358	0.68126	0.75932	479.034	14.456	0.29571	6116.7
46.3015	0.6804	-0.0307	0.68114	0.76302	480.194	14.486	0.29581	6118.0
46.0846	0.6806	-0.0256	0.68103	0.76673	481.178	14.513	0.29590	6119.0
45.8676	0.6806	-0.0205	0.68095	0.77044	481.987	14.534	0.29597	6119.6
45.6507	0.6807	-0.0154	0.68088	0.77415	482.621	14.551	0.29602	6120.3
45.4338	0.6807	-0.0103	0.68083	0.77788	483.079	14.563	0.29606	6120.7
45.2169	0.6808	-0.0051	0.68080	0.78163	483.359	14.571	0.29608	6120.9
45.0000	0.6808	0.0000	0.68078	0.78540	483.459	14.574	0.29609	6121.1

CBNE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 30274.7 FT./SEC. ENTR0PY=31.0178

FLW PROPERTIES

SHOCK ANGLE=47.0440 ENTR0PY=48.5328
 GAMMA (AVG.)=1.1307 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0440	0.6814	-0.0483	0.68315	0.75026	550.095	15.141	0.28711	6360.2
46.8396	0.6816	-0.0435	0.68298	0.75379	551.950	15.186	0.28724	6361.9
46.6352	0.6817	-0.0387	0.68284	0.75730	553.607	15.226	0.28736	6363.3
46.4308	0.6819	-0.0338	0.68271	0.76080	555.068	15.262	0.28747	6364.6
46.2264	0.6820	-0.0290	0.68260	0.76430	556.336	15.293	0.28756	6365.8
46.0220	0.6821	-0.0242	0.68250	0.76779	557.412	15.319	0.28764	6366.8
45.8176	0.6821	-0.0194	0.68242	0.77129	558.297	15.340	0.28770	6367.5
45.6132	0.6822	-0.0145	0.68236	0.77479	558.990	15.357	0.28775	6368.0
45.4088	0.6822	-0.0097	0.68232	0.77831	559.490	15.370	0.28779	6368.4
45.2044	0.6823	-0.0049	0.68229	0.78184	559.796	15.377	0.28781	6368.8
45.0000	0.6823	0.0000	0.68228	0.78540	559.906	15.379	0.28782	6368.9

CBNE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 32437.2 FT./SEC. ENTR0PY=31.0178

FLW PROPERTIES

SHOCK ANGLE=46.9477 ENTR0PY=50.0616
 GAMMA (AVG.)=1.1402 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.9477	0.6827	-0.0461	0.68422	0.75190	631.311	15.835	0.28127	6619.1
46.7529	0.6828	-0.0415	0.68407	0.75526	633.340	15.880	0.28140	6620.8
46.5582	0.6829	-0.0369	0.68394	0.75861	635.152	15.920	0.28151	6622.3
46.3634	0.6831	-0.0323	0.68382	0.76194	636.751	15.955	0.28161	6623.7
46.1686	0.6832	-0.0277	0.68372	0.76528	638.139	15.985	0.28170	6625.0
45.9738	0.6832	-0.0231	0.68363	0.76861	639.31	16.012	0.28177	6625.8
45.7791	0.6833	-0.0185	0.68356	0.77195	640.285	16.033	0.28183	6626.7
45.5843	0.6834	-0.0139	0.68351	0.77529	641.043	16.049	0.28188	6627.4
45.3895	0.6834	-0.0093	0.68347	0.77864	641.590	16.062	0.28191	6627.8
45.1947	0.6834	-0.0046	0.68344	0.78201	641.925	16.069	0.28193	6628.1
45.0000	0.6834	0.0000	0.68343	0.78540	642.044	16.071	0.28194	6628.3

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=46.8411 ENTRØPY=53.9965
GAMMA (AVG.)=1.1612 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
46.8411	0.6840	-0.0437	0.68542	0.75371	858.886	16.688	0.27583	7549.5
46.6570	0.6842	-0.0393	0.68528	0.75689	861.495	16.732	0.27595	7552.2
46.4729	0.6843	-0.0350	0.68517	0.76006	863.826	16.770	0.27606	7554.4
46.2887	0.6844	-0.0306	0.68506	0.76321	865.883	16.805	0.27615	7556.2
46.1045	0.6845	-0.0262	0.68497	0.76637	867.669	16.834	0.27623	7558.0
45.9205	0.6845	-0.0219	0.68489	0.76952	869.184	16.859	0.27631	7559.6
45.7364	0.6846	-0.0175	0.68483	0.77267	870.429	16.880	0.27636	7560.7
45.5523	0.6847	-0.0131	0.68478	0.77584	871.405	16.896	0.27641	7561.6
45.3682	0.6847	-0.0088	0.68474	0.77901	872.109	16.907	0.27644	7562.3
45.1841	0.6847	-0.0044	0.68472	0.78220	872.539	16.914	0.27646	7562.7
45.0000	0.6847	0.0000	0.68471	0.78540	872.692	16.917	0.27647	7562.9

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTRØPY=31.0178

FLØW PRØPERTIES

SHØCK ANGLE=46.9746 ENTRØPY=57.9777
GAMMA (AVG.)=1.2062 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
46.9746	0.6823	-0.0467	0.68392	0.75148	1121.608	15.643	0.29144	9576.1
46.7772	0.6825	-0.0421	0.68377	0.75487	1125.253	15.685	0.29157	9580.6
46.5797	0.6826	-0.0374	0.68363	0.75826	1128.511	15.723	0.29170	9584.7
46.3822	0.6827	-0.0327	0.68351	0.76164	1131.386	15.756	0.29181	9588.2
46.1848	0.6828	-0.0281	0.68341	0.76501	1133.883	15.785	0.29190	9591.3
45.9873	0.6829	-0.0234	0.68332	0.76838	1136.003	15.810	0.29198	9593.8
45.7898	0.6830	-0.0187	0.68325	0.77176	1137.746	15.830	0.29205	9596.0
45.5924	0.6830	-0.0141	0.68319	0.77515	1139.111	15.846	0.29210	9597.7
45.3949	0.6831	-0.0094	0.68315	0.77855	1140.097	15.857	0.29214	9598.9
45.1974	0.6831	-0.0047	0.68312	0.78196	1140.700	15.864	0.29216	9599.6
45.0000	0.6831	-0.0000	0.68311	0.78540	1140.916	15.867	0.29217	9599.8

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=56.3273 ENTRPHY=32.5102
GAMMA (AVG.)=1.3480 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=56.2676 ENTRPHY=33.1965
GAMMA (AVG.)=1.3274 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THET.	P	RHO	MU	T (K)
58.3273	0.5250	-0.1961	0.56044	0.66045	13.485	4.338	0.88185	840.1	56.2676	0.5553	-0.1677	0.58005	0.68868	20.324	4.957	0.74765	1108.1
57.2445	0.5285	-0.1767	0.55723	0.67646	13.659	4.380	0.89074	842.9	55.3909	0.5577	-0.1510	0.57777	0.70229	20.553	4.999	0.75253	1111.1
56.1618	0.5316	-0.1573	0.55439	0.69246	13.813	4.417	0.89877	845.3	54.5141	0.5598	-0.1344	0.57574	0.71585	20.757	5.037	0.75689	1113.8
55.0791	0.5344	-0.1380	0.55189	0.70853	13.949	4.449	0.90596	847.5	53.6373	0.5617	-0.1178	0.57397	0.72941	20.936	5.069	0.76076	1116.2
53.9964	0.5367	-0.1187	0.54971	0.72475	14.068	4.477	0.91231	849.3	52.7606	0.5634	-0.1012	0.57242	0.74305	21.093	5.098	0.76415	1118.3
52.9136	0.5388	-0.0993	0.54785	0.74119	14.170	4.501	0.91782	850.9	51.8838	0.5648	-0.0846	0.57110	0.75680	21.226	5.122	0.76706	1120.0
51.8309	0.5404	-0.0799	0.54629	0.75792	14.255	4.521	0.92245	852.2	51.0070	0.5659	-0.0680	0.57000	0.77071	21.337	5.142	0.76948	1121.5
50.7482	0.5417	-0.0602	0.54505	0.77500	14.323	4.537	0.92618	853.3	50.1303	0.5668	-0.0512	0.56913	0.78485	21.425	5.158	0.77141	1122.6
49.6654	0.5426	-0.0404	0.54412	0.79249	14.373	4.549	0.92895	854.0	49.2535	0.5674	-0.0343	0.56848	0.79924	21.490	5.170	0.77283	1123.4
48.5827	0.5432	-0.0203	0.54354	0.81048	14.404	4.556	0.93070	854.5	48.3767	0.5678	-0.0173	0.56808	0.81395	21.531	5.177	0.77372	1123.9
47.5000	0.5433	0.0000	0.54331	0.82903	14.416	4.559	0.93134	854.7	47.5000	0.5679	-0.0000	0.56792	0.82903	21.545	5.180	0.77405	1124.1

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRØPY=31.0178

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=55.1295 ENTRØPY=33.8779
GAMMA (AVG.)=1.3132 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=53.9306 ENTRØPY=35.1625
GAMMA (AVG.)=1.2982 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.1295	0.5717	-0.1503	0.59111	0.70513	28.711	5.459	0.67682	1421.5
54.3665	0.5736	-0.1353	0.58931	0.71727	29.004	5.501	0.68022	1424.9
53.6036	0.5753	-0.1203	0.58771	0.72934	29.264	5.539	0.68324	1428.0
52.8406	0.5767	-0.1053	0.58630	0.74139	29.494	5.572	0.68592	1430.6
52.0777	0.5780	-0.0906	0.58508	0.75348	29.694	5.601	0.68825	1432.9
51.3147	0.5791	-0.0757	0.58404	0.76565	29.864	5.625	0.69024	1434.9
50.5518	0.5800	-0.0607	0.58317	0.77794	30.006	5.645	0.69190	1436.5
49.7888	0.5807	-0.0457	0.58249	0.79038	30.118	5.661	0.69321	1437.8
49.0259	0.5812	-0.0306	0.58198	0.80301	30.200	5.673	0.69418	1438.7
48.2629	0.5815	-0.0154	0.58167	0.81588	30.251	5.681	0.69478	1439.3
47.5000	0.5815	-0.0000	0.58155	0.82903	30.269	5.683	0.69500	1439.5

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.9306	0.5887	-0.1305	0.60304	0.72313	50.089	6.193	0.60368	2185.8
53.2875	0.5901	-0.1175	0.60170	0.73358	50.535	6.236	0.60590	2190.3
52.6445	0.5914	-0.1045	0.60051	0.74397	50.933	6.274	0.60787	2194.2
52.0014	0.5924	-0.0915	0.59946	0.75435	51.284	6.307	0.60962	2197.7
51.3583	0.5934	-0.0786	0.59856	0.76473	51.589	6.336	0.61113	2200.7
50.7153	0.5942	-0.0656	0.59779	0.77516	51.849	6.360	0.61243	2203.2
50.0722	0.5948	-0.0526	0.59715	0.78567	52.064	6.381	0.61350	2205.3
49.4292	0.5953	-0.0396	0.59664	0.79628	52.234	6.397	0.61434	2207.0
48.7861	0.5957	-0.0265	0.59627	0.80702	52.359	6.409	0.61496	2208.2
48.1430	0.5959	-0.0133	0.59604	0.81793	52.435	6.416	0.61535	2208.9
47.5000	0.5960	0.0000	0.59595	0.82903	52.463	6.418	0.61548	2209.2

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.3620 ENTROPY=36.4821
GAMMA (AVG.)=1.1189 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.3620	0.6107	-0.1028	0.61925	0.74715	77.397	7.705	0.47527	2627.7
51.8758	0.6115	-0.0924	0.61843	0.75538	77.944	7.753	0.47613	2629.6
51.3896	0.6122	-0.0821	0.61770	0.76353	78.431	7.795	0.47695	2631.2
50.9034	0.6129	-0.0719	0.61706	0.77163	78.859	7.833	0.47763	2632.6
50.4172	0.6134	-0.0617	0.61651	0.77972	79.230	7.865	0.47822	2633.8
49.9310	0.6139	-0.0515	0.61604	0.78781	79.545	7.892	0.47874	2635.0
49.4448	0.6143	-0.0413	0.61565	0.79592	79.805	7.915	0.47915	2635.9
48.9586	0.6146	-0.0310	0.61535	0.80408	80.009	7.933	0.47951	2636.5
48.4724	0.6148	-0.0207	0.61513	0.81230	80.158	7.946	0.47974	2637.1
47.9862	0.6149	-0.0104	0.61499	0.82061	80.249	7.954	0.47987	2637.4
47.5000	0.6149	-0.0000	0.61494	0.82903	80.282	7.957	0.47993	2637.5

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=51.3481 ENTROPY=37.7731
GAMMA (AVG.)=1.1330 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.3481	0.6246	-0.0832	0.63010	0.76372	110.850	9.383	0.42122	2955.7
50.9633	0.6251	-0.0749	0.62957	0.77028	111.478	9.429	0.42179	2957.4
50.5785	0.6256	-0.0665	0.62910	0.77679	112.036	9.470	0.42232	2958.9
50.1937	0.6260	-0.0582	0.62869	0.78327	112.529	9.507	0.42279	2960.2
49.8089	0.6263	-0.0500	0.62833	0.78974	113.056	9.538	0.42317	2961.5
49.4241	0.6266	-0.0417	0.62803	0.79620	113.318	9.564	0.42352	2962.5
49.0392	0.6269	-0.0334	0.62778	0.80269	113.617	9.587	0.42378	2963.1
48.6544	0.6271	-0.0251	0.62759	0.80920	113.852	9.604	0.42401	2963.8
48.2696	0.6272	-0.0168	0.62744	0.81575	114.022	9.616	0.42415	2964.4
47.8848	0.6273	-0.0084	0.62735	0.82236	114.126	9.624	0.42425	2964.5
47.5000	0.6273	-0.0000	0.62732	0.82903	114.164	9.626	0.42430	2964.8

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=50.8130 ENTRPHY=39.1021
GAMMA (AVG.)=1.1849 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.8368	0.6315	-0.0729	0.63572	0.77231	196.194	10.632	0.40652	4137.1
50.5032	0.6319	-0.0656	0.63532	0.77798	197.158	10.673	0.40698	4140.8
50.1695	0.6323	-0.0583	0.63497	0.78362	198.018	10.711	0.40738	4144.0
49.8358	0.6326	-0.0511	0.63465	0.78925	198.777	10.743	0.40773	4146.9
49.5021	0.6329	-0.0438	0.63438	0.79487	199.437	10.771	0.40805	4149.6
49.1684	0.6331	-0.0365	0.63415	0.80050	199.997	10.795	0.40830	4151.6
48.8347	0.6333	-0.0293	0.63396	0.80614	200.458	10.814	0.40852	4153.5
48.5010	0.6334	-0.0220	0.63381	0.81180	200.821	10.830	0.40868	4154.7
48.1674	0.6335	-0.0147	0.63370	0.81750	201.083	10.841	0.40881	4155.8
47.8337	0.6336	-0.0074	0.63364	0.82324	201.244	10.848	0.40888	4156.4
47.5000	0.6336	0.0000	0.63361	0.82903	201.302	10.851	0.40891	4156.6

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 17299.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=50.8368 ENTRPHY=40.6897
GAMMA (AVG.)=1.2272 STAG. ENTHALPY=1.5256E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
50.8368	0.6315	-0.0729	0.63572	0.77231	196.194	10.632	0.40652	4137.1
50.5032	0.6319	-0.0656	0.63532	0.77798	197.158	10.673	0.40698	4140.8
50.1695	0.6323	-0.0583	0.63497	0.78362	198.018	10.711	0.40738	4144.0
49.8358	0.6326	-0.0511	0.63465	0.78925	198.777	10.743	0.40773	4146.9
49.5021	0.6329	-0.0438	0.63438	0.79487	199.437	10.771	0.40805	4149.6
49.1684	0.6331	-0.0365	0.63415	0.80050	199.997	10.795	0.40830	4151.6
48.8347	0.6333	-0.0293	0.63396	0.80614	200.458	10.814	0.40852	4153.5
48.5010	0.6334	-0.0220	0.63381	0.81180	200.821	10.830	0.40868	4154.7
48.1674	0.6335	-0.0147	0.63370	0.81750	201.083	10.841	0.40881	4155.8
47.8337	0.6336	-0.0074	0.63364	0.82324	201.244	10.848	0.40888	4156.4
47.5000	0.6336	0.0000	0.63361	0.82903	201.302	10.851	0.40891	4156.6

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTRPHY=31.0178

FLW PRPERTIES

SHOCK ANGLE=50.6124 ENTRPHY=41.9708
GAMMA AVG.=1.1757 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTRPHY=31.0178

FLW PRPERTIES

SHOCK ANGLE=50.3725 ENTRPHY=43.3799
GAMMA AVG.=1.1475 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RMB	MU	T (K)	ETA	VR	VN	V	THETA	P	RMB	MU	T (K)
50.6124	0.6346	-0.0084	0.63824	0.77596	247.985	11.297	0.38306	4803.3	50.3725	0.6378	-0.0635	0.64094	0.77992	305.812	12.128	0.36255	5291.4
50.3012	0.6349	-0.0614	0.63789	0.78127	249.109	11.342	0.38339	4805.7	50.0853	0.6381	-0.0571	0.64064	0.78485	307.120	12.174	0.36282	5293.5
49.9900	0.6352	-0.0547	0.63757	0.78656	250.130	11.383	0.38367	4807.9	49.7980	0.6384	-0.0508	0.64037	0.78975	308.288	12.214	0.36305	5295.3
49.6787	0.6355	-0.0479	0.63730	0.79184	251.031	11.418	0.38392	4809.7	49.5108	0.6386	-0.0444	0.64014	0.79463	309.317	12.250	0.36326	5297.0
49.3675	0.6357	-0.0411	0.63706	0.79710	251.812	11.449	0.38414	4811.4	49.2235	0.6388	-0.0381	0.63993	0.79951	310.211	12.281	0.36344	5298.5
49.0562	0.6359	-0.0343	0.63686	0.80237	252.477	11.475	0.38433	4812.8	48.9363	0.6390	-0.0318	0.63976	0.80439	310.970	12.307	0.36359	5299.7
48.7450	0.6361	-0.0274	0.63669	0.80765	253.023	11.497	0.38449	4813.9	48.6490	0.6391	-0.0255	0.63962	0.80927	311.594	12.329	0.36372	5300.7
48.4337	0.6362	-0.0206	0.63656	0.81295	253.452	11.514	0.38460	4814.9	48.3617	0.6392	-0.0191	0.63950	0.81417	312.084	12.346	0.36382	5301.6
48.1225	0.6363	-0.0138	0.63646	0.81827	253.763	11.526	0.38469	4815.5	48.0745	0.6393	-0.0128	0.63942	0.81909	312.438	12.358	0.36389	5302.1
47.8112	0.6364	-0.0069	0.63640	0.82363	253.953	11.533	0.38475	4816.0	47.7872	0.6393	-0.0064	0.63937	0.82404	312.655	12.366	0.36393	5302.4
47.5000	0.6364	0.0000	0.63638	0.82903	254.021	11.536	0.38476	4816.1	47.5000	0.6394	0.0000	0.63935	0.82903	312.732	12.369	0.36395	5302.4

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=50.1554 ENTRØPY=44.8340
GAMMA (AVG.)=1.1314 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.1554	0.6407	-0.0590	0.64342	0.78354	369.744	13.012	0.34537	5677.1
49.8898	0.6410	-0.0531	0.64316	0.78811	371.211	13.058	0.34559	5679.0
49.6243	0.6412	-0.0472	0.64293	0.79265	372.520	13.099	0.34578	5680.7
49.3588	0.6414	-0.0413	0.64272	0.79718	373.675	13.135	0.34596	5682.1
49.0932	0.6416	-0.0354	0.64255	0.80170	374.677	13.166	0.34611	5683.4
48.8277	0.6417	-0.0295	0.64240	0.80622	375.528	13.192	0.34624	5684.5
48.5621	0.6418	-0.0236	0.64227	0.81074	376.227	13.214	0.34635	5685.3
48.2966	0.6419	-0.0178	0.64218	0.81528	376.776	13.231	0.34643	5686.1
48.0311	0.6420	-0.0119	0.64211	0.81984	377.172	13.243	0.34649	5686.5
47.7655	0.6420	-0.0059	0.64206	0.82442	377.415	13.251	0.34653	5686.8
47.5000	0.6420	0.0000	0.64205	0.82903	377.502	13.253	0.34654	5686.9

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 25949.8 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.9649 ENTRØPY=46.3289
GAMMA (AVG.)=1.1255 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.9649	0.6433	-0.0550	0.64560	0.78674	439.764	13.918	0.33129	5985.4
49.7184	0.6435	-0.0495	0.64538	0.79099	441.387	13.964	0.33148	5987.1
49.4719	0.6437	-0.0440	0.64518	0.79521	442.836	14.005	0.33165	5988.5
49.2254	0.6439	-0.0385	0.64500	0.79942	444.115	14.041	0.33181	5989.9
48.9790	0.6440	-0.0330	0.64485	0.80363	445.224	14.072	0.33194	5991.2
48.7325	0.6441	-0.0275	0.64472	0.80783	446.165	14.098	0.33205	5992.0
48.4860	0.6442	-0.0220	0.64461	0.81204	446.939	14.120	0.33214	5993.0
48.2395	0.6443	-0.0165	0.64453	0.81626	447.546	14.137	0.33221	5993.4
47.9930	0.6444	-0.0110	0.64447	0.82049	447.984	14.149	0.33226	5994.1
47.7465	0.6444	-0.0055	0.64443	0.82475	448.252	14.157	0.33230	5994.2
47.5000	0.6444	0.0000	0.64441	0.82903	448.348	14.159	0.33231	5994.3

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NB=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 28112.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.8054 ENTRPHY=47.8663
GAMMA (AVG.)=1.1278 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	Y (K)
49.8054	0.6454	-0.0516	0.64745	0.78943	515.876	14.794	0.32029	6250.7
49.5748	0.6456	-0.0465	0.64725	0.79341	517.660	14.839	0.32046	6252.5
49.3443	0.6458	-0.0413	0.64707	0.79736	519.252	14.879	0.32062	6254.0
49.1138	0.6459	-0.0361	0.64692	0.80131	520.657	14.915	0.32076	6255.2
48.8832	0.6460	-0.0310	0.64678	0.80525	521.876	14.946	0.32087	6256.4
48.6527	0.6462	-0.0258	0.64667	0.80918	522.910	14.972	0.32097	6257.4
48.4221	0.6462	-0.0207	0.64658	0.81313	523.761	14.994	0.32106	6258.0
48.1916	0.6463	-0.0155	0.64650	0.81708	524.427	15.010	0.32112	6258.7
47.9611	0.6464	-0.0104	0.64645	0.82104	524.908	15.023	0.32117	6259.2
47.7305	0.6464	-0.0052	0.64641	0.82503	525.202	15.030	0.32119	6259.5
47.5000	0.6464	0.0000	0.64640	0.82903	525.308	15.033	0.32120	6259.6

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NB=28.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.8799 ENTRPHY=49.4449
GAMMA (AVG.)=1.1360 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	Y (K)
49.8799	0.6471	-0.0490	0.64891	0.79156	598.063	15.574	0.31226	6511.6
49.6419	0.6472	-0.0440	0.64873	0.79532	600.040	15.619	0.31242	6513.4
49.4039	0.6474	-0.0392	0.64857	0.79906	601.788	15.660	0.31257	6514.8
49.1659	0.6475	-0.0343	0.64843	0.80280	603.329	15.695	0.31269	6516.1
48.9279	0.6476	-0.0294	0.64831	0.80652	604.667	15.725	0.31280	6517.4
48.6899	0.6477	-0.0245	0.64821	0.81025	605.803	15.752	0.31289	6518.3
48.4519	0.6478	-0.0196	0.64812	0.81398	606.736	15.773	0.31296	6519.0
48.2139	0.6479	-0.0147	0.64806	0.81772	607.468	15.790	0.31302	6519.7
47.9759	0.6479	-0.0098	0.64801	0.82147	607.995	15.802	0.31307	6520.2
47.7379	0.6480	-0.0049	0.64798	0.82524	608.318	15.809	0.31309	6520.4
47.5000	0.6480	0.0000	0.64797	0.82903	608.423	15.812	0.31310	6520.6

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 32437.2 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.5899 ENTRPHY=51.0592
 GAMMA (AVG.)=1.1471 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.5899	0.6483	-0.0470	0.64996	0.79309	686.389	16.131	0.30704	6807.9
49.3809	0.6484	-0.0423	0.64979	0.79669	689.542	16.236	0.30719	6809.7
49.1719	0.6486	-0.0376	0.64965	0.80028	692.667	16.276	0.30733	6811.3
48.9629	0.6487	-0.0329	0.64952	0.80387	692.164	16.310	0.30745	6812.9
48.7539	0.6488	-0.0282	0.64941	0.80744	693.638	16.341	0.30755	6814.2
48.5449	0.6489	-0.0235	0.64931	0.81102	694.888	16.366	0.30764	6815.3
48.3359	0.6490	-0.0188	0.64924	0.81460	695.916	16.388	0.30771	6816.1
48.1269	0.6490	-0.0141	0.64918	0.81818	695.721	16.404	0.30776	6816.8
47.9179	0.6491	-0.0094	0.64913	0.82178	697.302	16.416	0.30781	6817.4
47.7090	0.6491	-0.0047	0.64910	0.82540	697.657	16.423	0.30784	6817.6
47.5000	0.6491	0.0000	0.64909	0.82903	697.784	16.426	0.30784	6817.7

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 37843.4 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=49.5318 ENTRPHY=55.1895
 GAMMA (AVG.)=1.1627 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.5318	0.6490	-0.0458	0.65064	0.79408	933.859	16.619	0.30460	7972.6
49.3286	0.6492	-0.0412	0.65048	0.79758	936.707	16.662	0.30478	7975.5
49.1255	0.6493	-0.0366	0.65034	0.80107	939.253	16.700	0.30494	7978.3
48.9223	0.6494	-0.0320	0.65022	0.80455	941.499	16.734	0.30508	7980.5
48.7191	0.6495	-0.0275	0.65012	0.80803	943.449	16.762	0.30520	7982.7
48.5159	0.6496	-0.0229	0.65003	0.81151	945.103	16.787	0.30530	7984.5
48.3127	0.6497	-0.0183	0.64996	0.81499	946.463	16.808	0.30538	7985.7
48.1095	0.6498	-0.0138	0.64990	0.81848	947.529	16.824	0.30545	7986.9
47.9063	0.6498	-0.0092	0.64986	0.82198	948.297	16.835	0.30550	7987.8
47.7032	0.6498	-0.0046	0.64983	0.82550	948.767	16.842	0.30553	7988.2
47.5000	0.6498	-0.0000	0.64982	0.82903	948.935	16.844	0.30554	7988.4

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLUX PROPERTIES

SHOCK ANGLE=49.6891 ENTROPY=59.2363
GAMMA (AVG.)=1.1943 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.6891	0.6469	-0.0491	0.64880	0.791441219	582	15.520	0.32098	10271.1
49.4702	0.6471	-0.0442	0.64862	0.795201223	581	15.563	0.32116	10275.5
49.2513	0.6473	-0.0393	0.64846	0.798951227	554	15.601	0.32131	10279.2
49.0324	0.6474	-0.0344	0.64832	0.802691230	308	15.635	0.32144	10282.5
48.8135	0.6475	-0.0295	0.64820	0.806431233	046	15.664	0.32156	10285.5
48.5945	0.6476	-0.0246	0.64810	0.810171235	371	15.689	0.32166	10287.9
48.3756	0.6477	-0.0197	0.64801	0.813921237	282	15.710	0.32174	10290.0
48.1567	0.6478	-0.0148	0.64794	0.817671238	780	15.725	0.32180	10291.6
47.9378	0.6478	-0.0099	0.64790	0.821441239	862	15.737	0.32185	10292.7
47.7189	0.6478	-0.0049	0.64787	0.825221240	523	15.744	0.32188	10293.5
47.5000	0.6479	-0.0000	0.64785	0.829031240	759	15.747	0.32189	10293.6

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO. = 4.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 4325.0 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=62.2934 ENTRØPY=32.6350
GAMMA (AVG.)=1.3438 STAG. ENTHALPY=1.2275E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
62.2934	0.4649	-0.1984	0.50543	0.68385	14.623	4.462	1.07062	885.8
61.0641	0.4689	-0.1788	0.50180	0.70144	14.805	4.503	1.08675	888.6
59.8347	0.4725	-0.1593	0.49858	0.71912	14.967	4.540	1.10166	891.1
58.6054	0.4756	-0.1398	0.49574	0.73696	15.110	4.572	1.11534	893.2
57.3760	0.4784	-0.1203	0.49326	0.75505	15.235	4.600	1.12771	895.1
56.1467	0.4807	-0.1007	0.49113	0.77345	15.342	4.624	1.13865	896.7
54.9173	0.4826	-0.0810	0.48935	0.79224	15.432	4.644	1.14805	898.0
53.6880	0.4841	-0.0611	0.48793	0.81148	15.503	4.660	1.15573	899.1
52.4586	0.4851	-0.0410	0.48687	0.83125	15.556	4.672	1.16152	899.9
51.2293	0.4858	-0.0207	0.48620	0.85162	15.589	4.679	1.16520	900.4
50.0000	0.4859	0.0000	0.48593	0.87267	15.601	4.682	1.16657	900.6

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO. = 5.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 5406.2 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=59.7904 ENTRØPY=33.3434
GAMMA (AVG.)=1.3238 STAG. ENTHALPY=1.7535E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
59.7904	0.5031	-0.1703	0.53116	0.71713	21.987	5.074	0.86694	1171.3
58.8113	0.5059	-0.1534	0.52859	0.73205	22.228	5.116	0.87416	1174.4
57.8323	0.5083	-0.1365	0.52632	0.74696	22.443	5.153	0.88067	1177.2
56.8533	0.5105	-0.1197	0.52431	0.76192	22.632	5.186	0.88648	1179.6
55.8742	0.5123	-0.1029	0.52256	0.77699	22.797	5.214	0.89159	1181.7
54.8952	0.5139	-0.0860	0.52107	0.79222	22.938	5.238	0.89601	1183.5
53.9161	0.5152	-0.0691	0.51983	0.80768	23.055	5.259	0.89971	1184.9
52.9371	0.5162	-0.0521	0.51864	0.82339	23.148	5.275	0.90266	1186.1
51.9581	0.5169	-0.0349	0.51811	0.83943	23.216	5.286	0.90484	1187.0
50.9790	0.5174	-0.0176	0.51765	0.85583	23.259	5.294	0.90621	1187.5
50.0000	0.5175	-0.0000	0.51747	0.87266	23.275	5.296	0.90671	1187.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 6487.4 FT./SEC. ENTRPHY=31.0178

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 8649.9 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=58.4757 ENTRPHY=34.0447
GAMMA (AVG.)=1.3105 STAG. ENTHALPY=2.3965E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=57.1287 ENTRPHY=35.3596
GAMMA (AVG.)=1.2968 STAG. ENTHALPY=4.0333E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)	ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
58.4757	0.5228	-0.1531	0.54477	0.73579	31.045	5.569	0.77396	1506.8	57.1287	0.5427	-0.1336	0.55894	0.75573	54.151	6.287	0.68380	2328.1
57.6281	0.5250	-0.1378	0.54274	0.74908	31.354	5.611	0.77872	1510.3	56.4159	0.5443	-0.1203	0.55742	0.76720	54.626	6.329	0.68681	2382.8
56.7805	0.5269	-0.1226	0.54094	0.76234	31.630	5.648	0.78298	1513.5	55.7030	0.5457	-0.1070	0.55608	0.77863	55.049	6.367	0.68949	2336.9
55.9330	0.5285	-0.1075	0.53935	0.77561	31.872	5.681	0.78677	1516.2	54.9801	0.5469	-0.0937	0.55490	0.79006	55.422	6.400	0.69187	2340.5
55.0854	0.5300	-0.0923	0.53797	0.78895	32.084	5.710	0.79008	1518.6	54.2772	0.5480	-0.0805	0.55387	0.80151	55.746	6.429	0.69394	2343.7
54.2378	0.5312	-0.0772	0.53680	0.80239	32.264	5.735	0.79292	1520.6	53.5644	0.5489	-0.0672	0.55299	0.81303	56.023	6.453	0.69570	2346.3
53.3902	0.5322	-0.0619	0.53562	0.81599	32.414	5.755	0.79529	1522.3	52.8515	0.5496	-0.0539	0.55227	0.82464	56.252	6.474	0.69717	2348.5
52.5427	0.5330	-0.0466	0.53505	0.82977	32.533	5.771	0.79717	1523.6	52.1386	0.5502	-0.0406	0.55170	0.83638	56.433	6.490	0.69833	2350.2
51.6951	0.5336	-0.0312	0.53448	0.84378	32.619	5.783	0.79855	1524.6	51.4257	0.5506	-0.0272	0.55128	0.84827	56.565	6.501	0.69918	2351.5
50.8475	0.5339	-0.0157	0.53412	0.85806	32.673	5.790	0.79942	1525.2	50.7129	0.5508	-0.0136	0.55101	0.86036	56.647	6.509	0.69970	2352.3
50.0000	0.5340	-0.0000	0.53398	0.87266	32.693	5.793	0.79973	1525.4	50.0000	0.5509	-0.0000	0.55091	0.87266	56.676	6.511	0.69989	2352.6

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NØ.=10.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 10812.4 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=55.1490 ENTRØPY=36.7374
GAMMA (AVG.)=1.1178 STAG. ENTHALPY=6.1376E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
55.1490	0.5714	-0.1019	0.58045	0.78600	83.571	8.050	0.51897	2693.7
54.6341	0.5723	-0.0917	0.57959	0.79468	84.133	8.098	0.52009	2695.5
54.1192	0.5731	-0.0815	0.57883	0.80329	84.633	8.140	0.52104	2696.9
53.6043	0.5737	-0.0713	0.57816	0.81187	85.073	8.177	0.52188	2698.3
53.0894	0.5743	-0.0612	0.57758	0.82043	85.454	8.209	0.52265	2699.7
52.5745	0.5749	-0.0511	0.57708	0.82899	85.778	8.236	0.52326	2700.7
52.0596	0.5752	-0.0409	0.57668	0.83759	86.045	8.260	0.52376	2701.3
51.5447	0.5755	-0.0308	0.57636	0.84623	86.255	8.277	0.52416	2702.0
51.0298	0.5758	-0.0206	0.57613	0.85494	86.408	8.290	0.52444	2702.6
50.5149	0.5759	-0.0103	0.57598	0.86375	86.502	8.297	0.52465	2703.0
50.0000	0.5759	0.0000	0.57593	0.87267	86.535	8.301	0.52471	2702.9

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NØ.=12.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 12974.9 FT./SEC. ENTRØPY=31.0178

FLOW PROPERTIES

SHØCK ANGLE=54.0905 ENTRØPY=38.0836
GAMMA (AVG.)=1.1430 STAG. ENTHALPY=8.7096E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
54.0905	0.5865	-0.0831	0.59236	0.80328	119.680	9.745	0.46160	3036.9
53.6814	0.5871	-0.0748	0.59180	0.81023	120.329	9.792	0.46230	3038.5
53.2724	0.5876	-0.0665	0.59130	0.81714	120.907	9.831	0.46291	3040.3
52.8633	0.5880	-0.0582	0.59086	0.82402	121.417	9.868	0.46350	3041.4
52.4543	0.5884	-0.0499	0.59049	0.83089	121.859	9.899	0.46397	3042.6
52.0452	0.5887	-0.0416	0.59016	0.83776	122.234	9.925	0.46440	3043.7
51.6362	0.5890	-0.0333	0.58990	0.84466	122.544	9.948	0.46474	3044.4
51.2271	0.5892	-0.0251	0.58969	0.85158	122.787	9.964	0.46498	3045.2
50.8181	0.5893	-0.0167	0.58954	0.85855	122.963	9.977	0.46518	3045.6
50.4090	0.5894	-0.0084	0.58945	0.86557	123.071	9.985	0.46529	3045.7
50.0000	0.5894	0.0000	0.58941	0.87267	123.110	9.987	0.46536	3045.9

CBME SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 15137.4 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=53.5836 ENTROPY=39.4799
GAMMA (AVG.)=1.2019 STAG. ENTHALPY=1.1749E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.5836	0.5936	-0.0737	0.59820	0.81173	162.427	10.922	0.44068	3484.5	53.8834	0.5922	-0.0755	0.59704	0.81010	211.877	10.668	0.44917	4407.8
53.2252	0.5941	-0.0663	0.59776	0.81782	163.201	10.966	0.44128	3486.7	53.3151	0.5927	-0.0680	0.59658	0.81635	212.915	10.712	0.44970	4411.0
52.8668	0.5945	-0.0589	0.59738	0.82388	163.893	11.005	0.4431	3488.8	52.9467	0.5931	-0.0604	0.59618	0.82257	213.842	10.752	0.45018	4413.7
52.5085	0.5948	-0.0516	0.59704	0.82993	164.503	11.039	0.44225	3490.6	52.5784	0.5935	-0.0529	0.59582	0.82878	214.660	10.787	0.45060	4416.0
52.1501	0.5951	-0.0443	0.59674	0.83597	165.032	11.069	0.44285	3492.0	52.2101	0.5938	-0.0454	0.59551	0.83498	215.370	10.817	0.45097	4418.2
51.7918	0.5953	-0.0369	0.59649	0.84201	165.483	11.093	0.44298	3493.5	51.8417	0.5940	-0.0378	0.59524	0.84118	215.974	10.843	0.45128	4420.0
51.4334	0.5956	-0.0296	0.59629	0.84807	165.853	11.114	0.44325	3494.5	51.4734	0.5943	-0.0303	0.59503	0.84741	216.471	10.864	0.45153	4421.4
51.0750	0.5957	-0.0222	0.59612	0.85416	166.144	11.131	0.44348	3495.0	51.1050	0.5944	-0.0228	0.59485	0.85366	216.861	10.881	0.45174	4422.5
50.7167	0.5958	-0.0148	0.59601	0.86028	166.355	11.143	0.44365	3495.6	50.7367	0.5945	-0.0152	0.59473	0.85995	217.144	10.893	0.45188	4423.4
50.3583	0.5959	-0.0074	0.59593	0.86644	166.484	11.151	0.44374	3495.9	50.3683	0.5946	-0.0076	0.59465	0.86628	217.317	10.900	0.45197	4423.9
50.0000	0.5959	0.0000	0.59590	0.87266	166.531	11.153	0.44376	3496.1	50.0000	0.5946	0.0000	0.59462	0.87267	217.380	10.903	0.45200	4423.9

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 19462.3 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=53.3464 ENTROPY=42.4616
GAMMA (AVG.)=1.1640 STAG. ENTHALPY=1.9231E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.3464	0.5970	-0.0692	0.60097	0.81560	267.749	11.587	0.41723	4988.2
53.0117	0.5974	-0.0623	0.60059	0.82132	268.951	11.632	0.41762	4990.5
52.6771	0.5977	-0.0554	0.60025	0.82700	270.024	11.673	0.41797	4992.5
52.3424	0.5980	-0.0485	0.59995	0.83267	270.971	11.708	0.41827	4994.4
52.0078	0.5983	-0.0416	0.59969	0.83833	271.792	11.739	0.41853	4996.0
51.6732	0.5985	-0.0347	0.59947	0.84399	272.490	11.765	0.41875	4997.3
51.3385	0.5986	-0.0278	0.59929	0.84967	273.065	11.787	0.41894	4998.3
51.0039	0.5988	-0.0209	0.59915	0.85537	273.515	11.804	0.41908	4999.2
50.6693	0.5989	-0.0139	0.59904	0.86109	273.841	11.816	0.41919	4999.8
50.3346	0.5989	-0.0070	0.59898	0.86685	274.041	11.824	0.41925	5000.2
50.0000	0.5990	0.0000	0.59896	0.87267	274.113	11.826	0.41928	5000.4

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 21624.8 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=53.0772 ENTROPY=43.9465
GAMMA (AVG.)=1.1399 STAG. ENTHALPY=2.3674E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.0772	0.6007	-0.0641	0.60415	0.82006	330.202	12.470	0.39444	5454.3
52.7695	0.6011	-0.0577	0.60382	0.82533	331.573	12.516	0.39476	5456.2
52.4617	0.6013	-0.0513	0.60353	0.83058	332.797	12.556	0.39504	5457.9
52.1540	0.6016	-0.0449	0.60327	0.83581	333.876	12.592	0.39529	5459.5
51.8463	0.6018	-0.0385	0.60305	0.84103	334.812	12.623	0.39550	5460.9
51.5386	0.6020	-0.0321	0.60286	0.84626	335.608	12.650	0.39569	5462.0
51.2309	0.6022	-0.0257	0.60271	0.85149	336.262	12.671	0.39583	5463.0
50.9231	0.6023	-0.0193	0.60259	0.85674	336.775	12.688	0.39595	5463.7
50.6154	0.6024	-0.0129	0.60250	0.86202	337.146	12.701	0.39603	5464.2
50.3077	0.6024	-0.0065	0.60244	0.86732	337.373	12.708	0.39609	5464.6
50.0000	0.6024	0.0000	0.60242	0.87267	337.454	12.710	0.39611	5464.8

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 23787.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHECK ANGLE=52.8367 ENTRPHY=45.4741
GAMMA (AVG.)=1.1277 STAG. ENTHALPY=2.8584E 08 FT. SQ./SEC. SQ.
SHECK ANGLE=52.6314 ENTRPHY=47.0470
GAMMA (AVG.)=1.1257 STAG. ENTHALPY=3.3962E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.8367	0.6041	-0.0595	0.60700	0.82407	399.223	13.404	0.37555	5817.7	52.6314	0.6069	-0.0554	0.60946	0.82752	474.818	14.338	0.36053	6113.2
52.5530	0.6044	-0.0535	0.60673	0.82894	400.757	13.450	0.37582	5819.5	52.3683	0.6072	-0.0499	0.60922	0.83205	476.516	14.384	0.36076	6114.9
52.2694	0.6046	-0.0475	0.60648	0.83379	402.127	13.490	0.37606	5821.2	52.1051	0.6074	-0.0443	0.60901	0.83656	478.031	14.424	0.36096	6116.4
51.9857	0.6048	-0.0416	0.60626	0.83863	403.335	13.526	0.37627	5822.5	51.8420	0.6076	-0.0388	0.60882	0.84105	479.368	14.460	0.36114	6117.6
51.7020	0.6050	-0.0357	0.60607	0.84346	404.383	13.558	0.37645	5823.7	51.5789	0.6077	-0.0333	0.60865	0.84554	480.528	14.491	0.36130	6118.8
51.4183	0.6052	-0.0298	0.60591	0.84829	405.272	13.584	0.37660	5824.7	51.3157	0.6079	-0.0277	0.60851	0.85003	481.512	14.517	0.36143	6119.8
51.1347	0.6053	-0.0238	0.60577	0.85312	406.004	13.605	0.37673	5825.6	51.0526	0.6080	-0.0222	0.60840	0.85452	482.322	14.539	0.36154	6120.5
50.8510	0.6054	-0.0179	0.60567	0.85797	406.578	13.623	0.37682	5826.2	50.7894	0.6081	-0.0167	0.60831	0.85903	482.956	14.556	0.36163	6121.1
50.5673	0.6055	-0.0119	0.60559	0.86284	406.992	13.635	0.37689	5826.6	50.5263	0.6081	-0.0111	0.60824	0.86355	483.414	14.568	0.36169	6121.7
50.2837	0.6055	-0.0060	0.60555	0.86774	407.246	13.642	0.37693	5827.0	50.2631	0.6082	-0.0056	0.60820	0.86609	483.694	14.575	0.36173	6121.8
50.0000	0.6055	0.0000	0.60553	0.87267	407.337	13.645	0.37695	5827.0	50.0000	0.6082	0.0000	0.60819	0.87267	483.794	14.578	0.36174	6121.8

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 28112.3 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.4658 ENTRPHY=48.6656
 GAMMA (AVG.)=1.1314 STAG. ENTHALPY=3.9807E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.4658	0.6092	-0.0521	0.61146	0.83032	556.993	15.207	0.34926	6381.9
52.2192	0.6094	-0.0469	0.61125	0.83456	558.862	15.252	0.34947	6383.6
51.9726	0.6096	-0.0417	0.61106	0.83879	560.532	15.293	0.34965	6385.1
51.7260	0.6098	-0.0365	0.61089	0.84301	562.004	15.328	0.34982	6386.3
51.4795	0.6099	-0.0313	0.61074	0.84722	563.282	15.359	0.34996	6387.5
51.2329	0.6101	-0.0261	0.61062	0.85143	564.367	15.385	0.35007	6388.5
50.9863	0.6102	-0.0209	0.61052	0.85565	565.258	15.406	0.35017	6389.2
50.7397	0.6102	-0.0157	0.61044	0.85988	565.957	15.423	0.35025	6389.9
50.4931	0.6103	-0.0105	0.61038	0.86412	566.461	15.435	0.35030	6390.3
50.2466	0.6103	-0.0052	0.61035	0.86838	566.770	15.443	0.35034	6390.6
50.0000	0.6103	0.0000	0.61033	0.87267	566.880	15.446	0.35035	6390.6

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
 DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
 VELOCITY= 30274.7 FT./SEC. ENTRPHY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.3420 ENTRPHY=50.3262
 GAMMA (AVG.)=1.1420 STAG. ENTHALPY=4.6120E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.3420	0.6109	-0.0497	0.61296	0.83242	645.752	15.938	0.34154	6667.0
52.1078	0.6111	-0.0447	0.61277	0.83645	647.813	15.982	0.34174	6668.9
51.8736	0.6113	-0.0397	0.61260	0.84047	649.653	16.022	0.34191	6670.5
51.6394	0.6115	-0.0348	0.61244	0.84448	651.277	16.057	0.34206	6672.0
51.4052	0.6116	-0.0298	0.61231	0.84848	652.687	16.088	0.34219	6673.1
51.1710	0.6117	-0.0249	0.61220	0.85249	653.883	16.113	0.34230	6674.2
50.9368	0.6118	-0.0199	0.61211	0.85649	654.866	16.135	0.34239	6674.9
50.7026	0.6119	-0.0149	0.61204	0.86051	655.636	16.151	0.34246	6675.6
50.4684	0.6119	-0.0100	0.61198	0.86454	656.192	16.163	0.34252	6676.1
50.2342	0.6119	-0.0050	0.61195	0.86859	656.532	16.170	0.34254	6676.5
50.0000	0.6119	0.0000	0.61194	0.87267	656.654	16.173	0.34256	6676.5

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 32437.2 FT./SEC. ENTHALPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.2624 ENTRPHY=52.0209
GAMMA (AVG.)=1.1537 STAG. ENTHALPY=5.2901E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.2624	0.6120	-0.0481	0.61393	0.83377	741.104	16.451	0.33715	7014.0
52.0362	0.6122	-0.0433	0.61375	0.83767	743.389	16.495	0.33733	7016.3
51.8099	0.6124	-0.0384	0.61359	0.84155	745.432	16.534	0.33750	7018.1
51.5837	0.6125	-0.0336	0.61345	0.84542	747.234	16.569	0.33764	7019.6
51.3574	0.6126	-0.0289	0.61332	0.84929	748.798	16.599	0.33777	7020.8
51.1312	0.6127	-0.0241	0.61322	0.85317	750.125	16.625	0.33788	7022.0
50.9050	0.6128	-0.0193	0.61313	0.85704	751.216	16.646	0.33796	7023.0
50.6787	0.6129	-0.0145	0.61307	0.86092	752.071	16.662	0.33803	7023.8
50.4525	0.6129	-0.0096	0.61302	0.86482	752.688	16.674	0.33808	7024.3
50.2262	0.6130	-0.0048	0.61299	0.86873	753.065	16.681	0.33811	7024.6
50.0000	0.6130	0.0000	0.61297	0.87267	753.199	16.684	0.33812	7024.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 37843.4 FT./SEC. ENTHALPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.2819 ENTRPHY=56.3512
GAMMA (AVG.)=1.2376 STAG. ENTHALPY=7.1898E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.2819	0.6118	-0.0484	0.61369	0.83349	1008.421	16.333	0.35107	8500.5
52.0537	0.6120	-0.0436	0.61351	0.83741	1011.546	16.374	0.35130	8504.3
51.8255	0.6121	-0.0387	0.61334	0.84131	1014.341	16.411	0.35151	8507.9
51.5973	0.6123	-0.0339	0.61320	0.84521	1016.808	16.444	0.35169	8511.0
51.3691	0.6124	-0.0291	0.61308	0.84910	1018.951	16.472	0.35185	8513.6
51.1409	0.6125	-0.0243	0.61297	0.85300	1020.770	16.486	0.35198	8516.0
50.9127	0.6126	-0.0194	0.61288	0.85691	1022.266	16.515	0.35209	8517.9
50.6845	0.6126	-0.0146	0.61281	0.86082	1023.439	16.531	0.35217	8519.3
50.4564	0.6127	-0.0097	0.61276	0.86475	1024.285	16.542	0.35223	8520.3
50.2282	0.6127	-0.0049	0.61273	0.86870	1024.803	16.549	0.35227	8521.0
50.0000	0.6127	0.0000	0.61272	0.87264	1024.987	16.551	0.35228	8521.1

CBNE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=172500.0 FEET PRESSURE=1.2100E 00 PSF
DENSITY=1.4490E-06 SLUGS/CU. FT. TEMPERATURE= 270.27 DEG. K
VELOCITY= 43249.6 FT./SEC. ENTROPY=31.0178

FLOW PROPERTIES

SHOCK ANGLE=52.4208 ENTROPY=60.4263
GAMMA (AVG.)=1.1852 STAG. ENTHALPY=9.3819E 08 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.4208	0.6099	-0.0912	0.61200	0.83111	3316.942	15.470	0.35414	10857.0
52.1787	0.6101	-0.0461	0.61180	0.83527	3321.276	15.513	0.35435	10861.3
51.9366	0.6102	-0.0410	0.61162	0.83941	3325.148	15.551	0.35454	10865.1
51.6946	0.6104	-0.0359	0.61145	0.84355	3328.566	15.585	0.35471	10868.6
51.4525	0.6105	-0.0308	0.61131	0.84768	3331.534	15.614	0.35485	10871.5
51.2104	0.6107	-0.0256	0.61120	0.85181	3334.053	15.639	0.35497	10873.9
50.9683	0.6108	-0.0205	0.61110	0.85595	3336.125	15.660	0.35507	10876.0
50.7262	0.6108	-0.0154	0.61102	0.86010	3337.748	15.676	0.35515	10877.5
50.4841	0.6109	-0.0103	0.61097	0.86427	3338.920	15.688	0.35521	10878.7
50.2421	0.6109	-0.0052	0.61093	0.86845	3339.637	15.695	0.35524	10879.4
50.0000	0.6109	-0.0000	0.61092	0.87261	3339.893	15.697	0.35526	10879.7

TABLE 10

Flow Properties For Cone Angles From 2.5° to 50°
At Various Mach Numbers For An Altitude of 200,000 Feet.

CONE SEMI-ANGLE = 2.5
 FREE STREAM CONDITIONS
 MACH NR = 24.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
 VELOCITY = 25148.6 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 3.5580 ENTROPY = 31.9425
 GAMMA (AVG.) = 1.3984 STAG. ENTHALPY = 3.1897E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.4505	0.9982	-0.0305	0.99865	0.02967	2.690	1.973	0.04496	346.2
3.3554	0.9982	-0.0274	0.99861	0.03113	2.770	2.015	0.04515	349.1
3.2604	0.9983	-0.0244	0.99857	0.03249	2.839	2.050	0.04531	351.5
3.1653	0.9983	-0.0214	0.99854	0.03381	2.898	2.081	0.04544	353.6
3.0703	0.9983	-0.0184	0.99852	0.03512	2.950	2.107	0.04556	355.4
2.9752	0.9984	-0.0155	0.99849	0.03642	2.994	2.130	0.04569	356.9
2.8802	0.9984	-0.0125	0.99847	0.03775	3.032	2.149	0.04574	358.2
2.7851	0.9984	-0.0095	0.99846	0.03912	3.063	2.165	0.04580	359.2
2.6901	0.9984	-0.0064	0.99845	0.04054	3.087	2.177	0.04585	360.0
2.5950	0.9984	-0.0032	0.99844	0.04204	3.102	2.184	0.04588	360.5
2.5000	0.9984	0.0000	0.99844	0.04363	3.108	2.187	0.04590	360.7

CONE SEMI-ANGLE = 2.5
 FREE STREAM CONDITIONS
 MACH NR = 26.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
 VELOCITY = 27244.3 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 3.4505 ENTROPY = 31.9698
 GAMMA (AVG.) = 1.3979 STAG. ENTHALPY = 3.7387E 08 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.4505	0.9982	-0.0305	0.99865	0.02967	2.690	1.973	0.04496	346.2
3.3554	0.9982	-0.0274	0.99861	0.03113	2.770	2.015	0.04515	349.1
3.2604	0.9983	-0.0244	0.99857	0.03249	2.839	2.050	0.04531	351.5
3.1653	0.9983	-0.0214	0.99854	0.03381	2.898	2.081	0.04544	353.6
3.0703	0.9983	-0.0184	0.99852	0.03512	2.950	2.107	0.04556	355.4
2.9752	0.9984	-0.0155	0.99849	0.03642	2.994	2.130	0.04569	356.9
2.8802	0.9984	-0.0125	0.99847	0.03775	3.032	2.149	0.04574	358.2
2.7851	0.9984	-0.0095	0.99846	0.03912	3.063	2.165	0.04580	359.2
2.6901	0.9984	-0.0064	0.99845	0.04054	3.087	2.177	0.04585	360.0
2.5950	0.9984	-0.0032	0.99844	0.04204	3.102	2.184	0.04588	360.5
2.5000	0.9984	0.0000	0.99844	0.04363	3.108	2.187	0.04590	360.7

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 3.3624 ENTROPY=32.0022
GAMMA (AVG.)=1.3973 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE= 2.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 3.2893 ENTROPY=32.0397
GAMMA (AVG.)=1.3966 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.3624	0.9983	-0.0279	0.99867	0.03076	2.980	2.103	0.04255	359.7	3.2893	0.9984	-0.0257	0.99868	0.03169	3.291	2.234	0.04048	374.0
3.2762	0.9983	-0.0250	0.99863	0.03209	3.063	2.145	0.04272	362.5	3.2104	0.9984	-0.0231	0.99865	0.03293	3.377	2.276	0.04063	376.7
3.1899	0.9984	-0.0223	0.99860	0.03336	3.135	2.180	0.04286	364.9	3.1314	0.9984	-0.0205	0.99863	0.03410	3.452	2.311	0.04075	379.1
3.1037	0.9984	-0.0196	0.99857	0.03458	3.197	2.211	0.04297	367.0	3.0525	0.9984	-0.0180	0.99860	0.03524	3.516	2.342	0.04086	381.1
3.0174	0.9984	-0.0168	0.99855	0.03579	3.251	2.238	0.04308	368.7	2.9736	0.9985	-0.0155	0.99858	0.03637	3.573	2.369	0.04095	382.8
2.9312	0.9984	-0.0141	0.99853	0.03701	3.297	2.261	0.04316	370.2	2.8947	0.9985	-0.0130	0.99857	0.03750	3.622	2.392	0.04103	384.3
2.8450	0.9985	-0.0114	0.99852	0.03824	3.337	2.280	0.04324	371.5	2.8157	0.9985	-0.0105	0.99855	0.03865	3.663	2.412	0.04110	385.5
2.7587	0.9985	-0.0086	0.99850	0.03950	3.369	2.296	0.04330	372.5	2.7368	0.9985	-0.0079	0.99854	0.03982	3.696	2.427	0.04115	386.5
2.6725	0.9985	-0.0058	0.99849	0.04081	3.393	2.308	0.04334	373.3	2.6579	0.9985	-0.0053	0.99853	0.04103	3.721	2.439	0.04119	387.3
2.5862	0.9985	-0.0030	0.99849	0.04218	3.409	2.315	0.04337	373.7	2.5789	0.9985	-0.0027	0.99853	0.04230	3.737	2.447	0.04121	387.7
2.5000	0.9985	0.0000	0.99848	0.04363	3.415	2.318	0.04338	373.9	2.5000	0.9985	0.0000	0.99853	0.04363	3.743	2.450	0.04122	387.9

CONE SEMI-ANGLE = 2.5
 FREE STREAM CONDITIONS

MACH NR. = 35.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
 VELOCITY = 36675.1 FT./SEC. ENTROPY = 31.8722

FLW PROP. PROPERTIES

SHOCK ANGLE = 3.1530 ENTROPY = 32.1530
 GAMMA (AVG.) = 1.3942 STAG. ENTHALPY = 6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.1530	0.9985	-0.0215	0.99872	0.03350	4.160	2.558	0.03642	412.8
3.0877	0.9985	-0.0193	0.99870	0.03434	4.255	2.600	0.03654	415.5
3.0224	0.9985	-0.0172	0.99868	0.03518	4.337	2.636	0.03663	417.7
2.9571	0.9985	-0.0151	0.99866	0.03602	4.409	2.667	0.03672	419.7
2.8918	0.9986	-0.0130	0.99865	0.03689	4.472	2.694	0.03679	421.3
2.8265	0.9986	-0.0109	0.99863	0.03806	4.526	2.717	0.03685	422.8
2.7612	0.9986	-0.0087	0.99863	0.03944	4.571	2.737	0.03690	424.0
2.6959	0.9986	-0.0066	0.99862	0.04044	4.608	2.752	0.03694	424.9
2.6306	0.9986	-0.0044	0.99861	0.04145	4.635	2.764	0.03697	425.6
2.5653	0.9986	-0.0022	0.99861	0.04252	4.652	2.772	0.03699	426.1
2.5000	0.9986	0.0000	0.99861	0.04363	4.659	2.774	0.03700	426.2

CONE SEMI-ANGLE = 2.5
 FREE STREAM CONDITIONS

MACH NR. = 40.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
 VELOCITY = 41914.3 FT./SEC. ENTROPY = 31.8722

FLW PROP. PROPERTIES

SHOCK ANGLE = 3.0602 ENTROPY = 32.2932
 GAMMA (AVG.) = 1.3907 STAG. ENTHALPY = 8.815E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.0602	0.9986	-0.0186	0.99875	0.03479	5.160	2.871	0.03346	456.3
3.0042	0.9986	-0.0167	0.99873	0.03569	5.264	2.912	0.03355	458.9
2.9482	0.9986	-0.0149	0.99872	0.03657	5.355	2.948	0.03363	461.1
2.8922	0.9986	-0.0130	0.99870	0.03743	5.435	2.980	0.03370	463.0
2.8361	0.9986	-0.0112	0.99869	0.03828	5.505	3.007	0.03376	464.7
2.7801	0.9986	-0.0094	0.99868	0.03913	5.564	3.031	0.03381	466.1
2.7241	0.9986	-0.0075	0.99868	0.03999	5.614	3.050	0.03385	467.2
2.6681	0.9987	-0.0057	0.99867	0.04086	5.654	3.066	0.03388	468.2
2.6120	0.9987	-0.0038	0.99867	0.04176	5.684	3.077	0.03391	468.9
2.5560	0.9987	-0.0019	0.99866	0.04268	5.703	3.085	0.03392	469.3
2.5000	0.9987	0.0000	0.99866	0.04363	5.710	3.087	0.03393	469.5

CONE SEMI-ANGLE= 5.0
 FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 6.2691 ENTROPY=32.1791
 GAMMA (AVG.)=1.3936 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.
 SHOCK ANGLE= 6.1253 ENTROPY=32.2923

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.2691	0.9940	-0.0417	0.99489	0.06751	4.344	2.620	0.07182	420.9
6.1422	0.9941	-0.0375	0.99481	0.06954	4.441	2.661	0.07204	423.5
6.0153	0.9942	-0.0333	0.99474	0.07149	4.524	2.697	0.07223	425.8
5.8884	0.9942	-0.0292	0.99468	0.07340	4.598	2.729	0.07240	427.7
5.7615	0.9943	-0.0251	0.99463	0.07529	4.662	2.756	0.07254	429.4
5.6346	0.9944	-0.0210	0.99458	0.07718	4.717	2.779	0.07266	430.8
5.5076	0.9944	-0.0169	0.99454	0.07909	4.763	2.799	0.07276	432.0
5.3807	0.9944	-0.0128	0.99451	0.08104	4.800	2.815	0.07284	433.0
5.2538	0.9945	-0.0086	0.99449	0.08304	4.828	2.826	0.07290	433.7
5.1269	0.9945	-0.0043	0.99448	0.08511	4.846	2.834	0.07294	434.1
5.0000	0.9945	0.0000	0.99447	0.08727	4.852	2.836	0.07295	434.3

CONE SEMI-ANGLE= 5.0
 FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=6.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 6.1253 ENTROPY=32.2923
 GAMMA (AVG.)=1.3907 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
6.1253	0.9943	-0.0372	0.99498	0.06951	5.153	2.869	0.06719	456.0
6.0128	0.9944	-0.0334	0.99492	0.07133	5.257	2.910	0.06738	458.6
5.9002	0.9944	-0.0297	0.99486	0.07309	5.348	2.946	0.06754	460.8
5.7877	0.9945	-0.0261	0.99481	0.07481	5.428	2.978	0.06768	462.7
5.6752	0.9945	-0.0224	0.99477	0.07652	5.498	3.005	0.06781	464.4
5.5626	0.9946	-0.0188	0.99474	0.07823	5.557	3.029	0.06791	465.8
5.4501	0.9946	-0.0151	0.99471	0.07995	5.607	3.048	0.06799	467.0
5.3376	0.9946	-0.0114	0.99468	0.08170	5.647	3.064	0.06806	467.9
5.2251	0.9946	-0.0077	0.99466	0.08350	5.677	3.075	0.06811	468.6
5.1125	0.9946	-0.0039	0.99465	0.08535	5.696	3.083	0.06814	469.0
5.0000	0.9946	0.0000	0.99465	0.08727	5.703	3.085	0.06815	469.2

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.114CL-01 PSF
DENSITY=5.210E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRPHY=31.8722

FILM PROPERTIES

SHOCK ANGLE= 6.0156 ENTRPHY=32.4185
GAMMA IAVG.=1.3870 STAG. ENTHALPY=2.6846E OR FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T	IKI
6.0156	0.9945	-0.0337	0.99506	0.07108	6.046	3.106	0.06349	494.1	
5.9140	0.9945	-0.0303	0.99501	0.07273	6.158	3.148	0.06365	496.6	
5.8175	0.9946	-0.0270	0.99496	0.07434	6.257	3.184	0.06379	498.8	
5.7109	0.9946	-0.0236	0.99492	0.07591	6.344	3.216	0.06391	500.8	
5.6093	0.9947	-0.0203	0.99489	0.07748	6.419	3.243	0.06402	502.4	
5.5078	0.9947	-0.0170	0.99486	0.07904	6.484	3.267	0.06411	503.8	
5.4062	0.9947	-0.0137	0.99483	0.08062	6.538	3.286	0.06418	505.0	
5.3047	0.9948	-0.0103	0.99481	0.08222	6.581	3.302	0.06424	505.9	
5.2031	0.9948	-0.0069	0.99480	0.08385	6.613	3.314	0.06428	506.6	
5.1016	0.9948	-0.0035	0.99479	0.08553	6.633	3.321	0.06431	507.0	
5.0000	0.9948	0.0000	0.99479	0.08727	6.640	3.324	0.06432	507.2	

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.210E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRPHY=31.8722

FILM PROPERTIES

SHOCK ANGLE= 5.9297 ENTRPHY=32.5551
GAMMA IAVG.=1.3826 STAG. ENTHALPY=3.1897E OR FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T	IKI
5.9297	0.9946	-0.0310	0.99513	0.07233	7.023	3.232	0.06046	535.1	
5.8367	0.9947	-0.0279	0.99509	0.07385	7.145	3.273	0.06060	537.6	
5.7438	0.9947	-0.0248	0.99505	0.07533	7.251	3.310	0.06073	539.8	
5.6508	0.9948	-0.0217	0.99501	0.07679	7.345	3.342	0.06083	541.8	
5.5578	0.9948	-0.0187	0.99498	0.07824	7.427	3.369	0.06092	543.4	
5.4649	0.9948	-0.0156	0.99496	0.07969	7.497	3.393	0.06100	544.8	
5.3719	0.9949	-0.0125	0.99494	0.08115	7.555	3.413	0.06106	546.0	
5.2789	0.9949	-0.0095	0.99492	0.08263	7.602	3.428	0.06111	546.9	
5.1859	0.9949	-0.0063	0.99491	0.08413	7.636	3.440	0.06115	547.6	
5.0930	0.9949	-0.0032	0.99490	0.08568	7.658	3.447	0.06117	548.0	
5.0000	0.9949	0.0000	0.99490	0.08727	7.666	3.450	0.06118	548.2	

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.8722

FLW PROPERTIES

SHOCK ANGLE= 5.8610 ENTROPY=32.6999

GAMMA (AVG.)=1.3775 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8610	0.9948	-0.0288	0.99519	0.07334	8.085	3.545	0.05794	578.9
5.7749	0.9948	-0.0259	0.99515	0.07476	8.216	3.587	0.05807	581.5
5.6888	0.9948	-0.0230	0.99511	0.07614	8.331	3.623	0.05817	583.7
5.6027	0.9949	-0.0202	0.99508	0.07751	8.433	3.655	0.05827	585.6
5.5166	0.9949	-0.0173	0.99506	0.07886	8.521	3.683	0.05835	587.3
5.4305	0.9949	-0.0145	0.99504	0.08021	8.597	3.707	0.05842	588.7
5.3444	0.9950	-0.0116	0.99502	0.08158	8.660	3.726	0.05847	589.9
5.2583	0.9950	-0.0088	0.99500	0.08295	8.710	3.742	0.05852	590.9
5.1722	0.9950	-0.0059	0.99499	0.08436	8.747	3.753	0.05855	591.5
5.0861	0.9950	-0.0030	0.99499	0.08579	8.770	3.761	0.05857	592.0
5.0000	0.9950	0.0000	0.99498	0.08727	8.778	3.763	0.05858	592.1

CONE SEMI-ANGLE= 5.0
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

FLW PROPERTIES

SHOCK ANGLE= 5.8049 ENTROPY=32.8509

GAMMA (AVG.)=1.3719 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
5.8049	0.9949	-0.0270	0.99524	0.07418	9.231	3.746	0.05581	625.5
5.7244	0.9949	-0.0243	0.99520	0.07551	9.372	3.788	0.05592	628.1
5.6439	0.9949	-0.0216	0.99517	0.07681	9.496	3.824	0.05602	630.4
5.5634	0.9950	-0.0189	0.99515	0.07810	9.606	3.856	0.05610	632.3
5.4829	0.9950	-0.0162	0.99512	0.07937	9.702	3.884	0.05617	634.0
5.4025	0.9950	-0.0136	0.99510	0.08065	9.783	3.908	0.05623	635.5
5.3220	0.9950	-0.0109	0.99509	0.08193	9.851	3.928	0.05628	636.6
5.2415	0.9950	-0.0082	0.99508	0.08322	9.905	3.943	0.05632	637.6
5.1610	0.9951	-0.0055	0.99507	0.08454	9.945	3.955	0.05635	638.3
5.0805	0.9951	-0.0028	0.99506	0.08589	9.970	3.962	0.05637	638.7
5.0000	0.9951	0.0000	0.99506	0.08727	9.979	3.965	0.05638	638.9

CONE SEMI-ANGLE = 5.0
FREE STREAM CONDITIONS

MACH NO. = 30.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
VELOCITY = 31435.8 FT./SEC. ENTRØPY = 31.8722

FLOW PROPERTIES

SHØCK ANGLE = 5.7584 ENTRØPY = 33.0066
GAMMA (AVG.) = 1.3660 STAG. ENTHALPY = 4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
5.7584	0.9950	-0.0255	0.99528	0.07488	10.461	3.935	0.05398	674.8
5.6825	0.9950	-0.0229	0.99525	0.07614	10.613	3.977	0.05408	677.4
5.6067	0.9950	-0.0204	0.99522	0.07737	10.747	4.014	0.05417	679.7
5.5309	0.9950	-0.0179	0.99520	0.07859	10.866	4.046	0.05424	681.7
5.4550	0.9951	-0.0153	0.99518	0.07980	10.968	4.074	0.05431	683.4
5.3792	0.9951	-0.0128	0.99516	0.08101	11.056	4.098	0.05436	684.9
5.3033	0.9951	-0.0103	0.99515	0.08222	11.129	4.118	0.05441	686.1
5.2275	0.9951	-0.0078	0.99513	0.08345	11.187	4.134	0.05445	687.0
5.1517	0.9951	-0.0052	0.99513	0.08469	11.230	4.145	0.05447	687.7
5.0758	0.9951	-0.0026	0.99512	0.08596	11.257	4.152	0.05449	688.2
5.0000	0.9951	-0.0000	0.99512	0.08727	11.267	4.155	0.05450	688.3

CONE SEMI-ANGLE = 5.0
FREE STREAM CONDITIONS

MACH NO. = 35.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K
VELOCITY = 36675.1 FT./SEC. ENTRØPY = 31.8722

FLOW PROPERTIES

SHØCK ANGLE = 5.6706 ENTRØPY = 33.4079
GAMMA (AVG.) = 1.3512 STAG. ENTHALPY = 6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
5.6706	0.9951	-0.0226	0.99536	0.07622	13.907	4.364	0.05037	808.9
5.6036	0.9951	-0.0204	0.99534	0.07734	14.089	4.406	0.05046	811.7
5.5365	0.9952	-0.0181	0.99532	0.07844	14.250	4.443	0.05053	814.1
5.4695	0.9952	-0.0159	0.99530	0.07953	14.391	4.476	0.05059	816.2
5.4024	0.9952	-0.0136	0.99528	0.08061	14.514	4.504	0.05064	818.0
5.3353	0.9952	-0.0114	0.99527	0.08169	14.619	4.528	0.05069	819.5
5.2683	0.9952	-0.0091	0.99526	0.08278	14.706	4.548	0.05072	820.8
5.2012	0.9952	-0.0069	0.99525	0.08387	14.775	4.564	0.05075	821.8
5.1341	0.9952	-0.0046	0.99524	0.08498	14.826	4.576	0.05078	822.5
5.0671	0.9952	-0.0023	0.99524	0.08611	14.857	4.583	0.05079	823.0
5.0000	0.9952	0.0000	0.99524	0.08727	14.869	4.585	0.05079	823.1

CONE SEMI-ANGLE= 5.0
 FREE STREAM CONDITIONS
 MACH NO.=40.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 5.6092 ENTROPY=33.8161
 GAMMA (AVG.)=1.3377 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
5.6092	0.9952	-0.0206	0.99542	0.07718	17.884	4.738	0.04772	958.1
5.5483	0.9952	-0.0186	0.99540	0.07820	18.098	4.781	0.04779	961.0
5.4874	0.9953	-0.0165	0.99539	0.07921	18.288	4.818	0.04785	963.5
5.4265	0.9953	-0.0144	0.99537	0.08020	18.455	4.851	0.04790	965.7
5.3655	0.9953	-0.0124	0.99536	0.08119	18.600	4.879	0.04795	967.6
5.3046	0.9953	-0.0104	0.99535	0.08218	18.724	4.904	0.04799	969.3
5.2437	0.9953	-0.0083	0.99534	0.08317	18.826	4.924	0.04802	970.6
5.1828	0.9953	-0.0063	0.99533	0.08417	18.908	4.940	0.04805	971.6
5.1218	0.9953	-0.0042	0.99532	0.08519	18.967	4.951	0.04806	972.4
5.0609	0.9953	-0.0021	0.99532	0.08622	19.004	4.958	0.04807	972.9
5.0000	0.9953	-0.0000	0.99532	0.08727	19.017	4.961	0.04808	973.1

CPM: SEMI-ANAL = 7.5
FREE STREAM CONDITIONS

CPM: SEMI-ANAL = 7.5
FREE STREAM CONDITIONS

MACH No. = 12.00 ALTITUDE = 00000.0 FEET PRESSURE = 4.1340E-01 PSF
DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 456.92 DEG. R
VELOCITY = 12574.3 FT./SEC. ENTROPY = 31.9772

MACH No. = 14.00 ALTITUDE = 00000.0 FEET PRESSURE = 4.1340E-01 PSF
DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 456.92 DEG. R
VELOCITY = 14670.6 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE = 9.4180 ENTROPY = 32.1775

SHOCK ANGLE = 9.1114 ENTROPY = 32.3521

GAMMA (AVG.) = 1.3937 SIG. ENTHALPY = 6.1801E 07 FT. S. / SEC. SQ.

GAMMA (AVG.) = 1.3890 SIG. ENTHALPY = 1.1035E 08 FT. S. / SEC. SQ.

P12	V1	V14	V	THETA	P	RHO	MU	T (K)
1.5100	0.9450	-0.0625	0.98850	0.10104	4.335	2.617	0.10844	420.5
0.2202	0.9407	-0.0562	0.98831	0.10413	4.431	2.658	0.10884	423.1
0.0344	0.9364	-0.0500	0.98815	0.10709	4.515	2.694	0.10916	425.4
0.0426	0.9370	-0.0438	0.98802	0.10996	4.589	2.726	0.10940	427.3
0.0602	0.9372	-0.0377	0.98790	0.11281	4.653	2.753	0.10963	429.0
0.0707	0.9373	-0.0316	0.98780	0.11566	4.708	2.776	0.10982	430.4
0.0772	0.9374	-0.0254	0.98771	0.11855	4.754	2.796	0.10997	431.6
0.0794	0.9374	-0.0192	0.98764	0.12144	4.791	2.812	0.11010	432.6
0.0800	0.9375	-0.0129	0.98759	0.12451	4.819	2.823	0.11019	433.3
0.0815	0.9375	-0.0065	0.98756	0.12764	4.836	2.831	0.11025	433.7
0.5	0.9375	0.0000	0.98755	0.13090	4.843	2.833	0.11027	433.9

T (K)	MU	RHO	V	THETA	P	RHO	MU	T (K)
474.1	0.09852	2.985	0.98880	0.10536	5.576	3.027	0.09879	476.7
476.7	0.09879	3.027	0.98867	0.10797	5.684	3.063	0.09902	478.9
480.8	0.09923	3.095	0.98845	0.11299	5.862	3.122	0.09940	482.5
483.9	0.09955	3.146	0.98820	0.11790	5.996	3.165	0.09967	485.0
486.0	0.09977	3.181	0.98818	0.12291	6.090	3.192	0.09984	486.7
487.1	0.09988	3.200	0.98812	0.12815	6.140	3.202	0.09990	487.2

CASE SERIAL NUMBER 745
 CASE SERIAL CONDITIONS

CASE SERIAL NUMBER 745
 CASE SERIAL CONDITIONS

MACH 0.41000 ALTITUDE=70000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=0.2100E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
 VELOCITY= 16765.7 FT./SEC. ENTRRPNV=31.0777

MACH 0.41000 ALTITUDE=70000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=0.2100E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
 VELOCITY= 16613.5 FT./SEC. ENTRRPNV=31.0772

FLW PROPERTIES

FLW PROPERTIES

SHOCK ANGLE= 8.4037 ENTRRPNV=32.5477
 GAMMA (AVG.)=1.3827 STAG. ENTHALPY=1.4320E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE= 8.7552 ENTRRPNV=32.7718
 GAMMA (AVG.)=1.3748 STAG. ENTHALPY=1.4062E 08 FT. SQ./SEC. SQ.

STATION	OR	XA	Y	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
1	0.0000	0.0000	0.0000	0.10836	7.006	3.328	0.09127	514.3	8.7552	0.9883	-0.0418	0.98923	0.11056	6.624	3.643	0.08876	401.0
2	0.0000	0.0000	0.0000	0.11066	7.127	3.370	0.09146	536.9	8.6297	0.9884	-0.0375	0.98915	0.11262	8.760	3.685	0.08994	603.5
3	0.0000	0.0000	0.0000	0.11289	7.234	3.406	0.09167	519.1	8.5042	0.9885	-0.0334	0.98907	0.11465	8.880	3.721	0.09010	605.8
4	0.0000	0.0000	0.0000	0.11503	7.327	3.438	0.09184	541.0	8.3787	0.9886	-0.0293	0.98901	0.11664	8.985	3.753	0.09024	607.7
5	0.0000	0.0000	0.0000	0.11724	7.409	3.465	0.09198	542.7	8.2531	0.9886	-0.0251	0.98895	0.11862	9.077	3.781	0.09030	609.4
6	0.0000	0.0000	0.0000	0.11946	7.479	3.489	0.09210	544.1	8.1276	0.9887	-0.0210	0.98891	0.12060	9.156	3.805	0.09046	610.8
7	0.0000	0.0000	0.0000	0.12156	7.537	3.509	0.09220	545.3	8.0021	0.9887	-0.0169	0.98887	0.12259	9.221	3.824	0.09054	612.0
8	0.0000	0.0000	0.0000	0.12389	7.583	3.524	0.09228	546.2	7.8766	0.9888	-0.0127	0.98884	0.12460	9.273	3.840	0.09066	613.0
9	0.0000	0.0000	0.0000	0.12617	7.619	3.536	0.09233	546.9	7.7510	0.9888	-0.0085	0.98882	0.12665	9.311	3.852	0.09065	613.6
10	0.0000	0.0000	0.0000	0.12850	7.639	3.543	0.09237	547.3	7.6255	0.9888	-0.0043	0.98880	0.12875	9.335	3.859	0.09068	614.1
11	0.0000	0.0000	0.0000	0.13090	7.667	3.546	0.09238	547.5	7.5000	0.9888	0.0000	0.98879	0.13090	9.344	3.862	0.09069	614.2

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS

MACH NO. = 20.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 456.92 DEG. R
 VELOCITY = 20957.2 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.6444 ENTROPY = 33.0031

GAMMA (AVG.) = 1.3661 STAG. ENTHALPY = 2.2235E 08 FT. SQ./SEC. SQ.

ETA	V4	VN	V	THETA	P	RHO	MU	T (K)
9.6444	0.9886	-0.0362	0.9893H	0.11222	10.433	3.931	0.08144	673.7
8.4529	0.9887	-0.0344	0.98931	0.11412	10.584	3.973	0.08159	676.3
8.3470	0.9888	-0.0306	0.98925	0.11598	10.719	4.010	0.08173	678.6
8.2412	0.9888	-0.0268	0.98919	0.11781	10.837	4.042	0.08185	680.6
8.1353	0.9889	-0.0230	0.98915	0.11963	10.939	4.070	0.08195	682.3
8.0294	0.9889	-0.0192	0.98911	0.12145	11.027	4.094	0.08203	683.7
7.9235	0.9890	-0.0154	0.98907	0.12329	11.100	4.114	0.08210	684.9
7.8176	0.9890	-0.0116	0.98905	0.12514	11.158	4.129	0.08216	685.9
7.7118	0.9890	-0.0078	0.98903	0.12702	11.201	4.141	0.08220	686.6
7.6059	0.9890	-0.0039	0.98902	0.12889	11.227	4.148	0.08223	687.0
7.5000	0.9890	0.0000	0.98901	0.13090	11.237	4.151	0.08224	687.2

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS

MACH NO. = 22.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF
 DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 456.92 DEG. R
 VELOCITY = 23052.9 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.5588 ENTROPY = 33.2419

GAMMA (AVG.) = 1.3572 STAG. ENTHALPY = 2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.5588	0.9889	-0.0355	0.98950	0.11352	12.431	4.195	0.07795	752.1
8.4529	0.9889	-0.0319	0.98944	0.11529	12.600	4.237	0.07809	754.8
8.3470	0.9890	-0.0284	0.98939	0.11702	12.749	4.274	0.07821	757.1
8.2412	0.9890	-0.0248	0.98934	0.11873	12.881	4.307	0.07831	759.2
8.1353	0.9891	-0.0213	0.98930	0.12043	12.996	4.335	0.07840	760.9
8.0294	0.9891	-0.0178	0.98927	0.12212	13.093	4.359	0.07847	762.4
7.9235	0.9891	-0.0143	0.98924	0.12383	13.174	4.379	0.07854	763.7
7.8176	0.9892	-0.0108	0.98921	0.12555	13.239	4.395	0.07858	764.7
7.7118	0.9892	-0.0072	0.98920	0.12730	13.286	4.406	0.07862	765.4
7.6059	0.9892	-0.0036	0.98919	0.12908	13.316	4.414	0.07864	765.8
7.5000	0.9892	0.0000	0.98918	0.13090	13.326	4.416	0.07865	766.0

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS

MACH NO. = 24.90 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF

DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 456.92 DEG. R

VELOCITY = 25148.6 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.4907 ENTRPHY = 33.4849

GAMMA (AVG.) = 1.3484 STAG. ENTHALPY = 3.1897E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE = 7.5

FREE STREAM CONDITIONS

MACH NO. = 26.00 ALTITUDE = 200000.0 FEET PRESSURE = 4.1340E-01 PSF

DENSITY = 5.2710E-07 SLUGS/CU. FT. TEMPERATURE = 253.84 DEG. K

VELOCITY = 27244.3 FT./SEC. ENTROPY = 31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.4351 ENTRPHY = 33.7296

GAMMA (AVG.) = 1.3404 STAG. ENTHALPY = 3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
0.4907	0.9890	-0.0333	0.98960	0.11457	14.619	4.439	0.07508	836.0	0.4351	0.9892	-0.0315	0.98968	0.11543	16.997	4.663	0.07268	925.3
0.5716	0.9891	-0.0299	0.98954	0.11623	14.806	4.481	0.07520	838.8	0.3416	0.9892	-0.0283	0.98963	0.11700	17.204	4.705	0.07279	928.1
0.6279	0.9891	-0.0266	0.98950	0.11785	14.972	4.518	0.07531	841.2	0.2481	0.9893	-0.0251	0.98959	0.11854	17.368	4.743	0.07289	930.6
0.6745	0.9892	-0.0233	0.98946	0.11946	15.118	4.551	0.07540	843.3	0.1546	0.9893	-0.0220	0.98956	0.12007	17.549	4.776	0.07297	932.8
0.7145	0.9893	-0.0167	0.98939	0.12266	15.354	4.603	0.07555	846.7	0.0611	0.9893	-0.0189	0.98952	0.12158	17.689	4.804	0.07304	934.7
0.7503	0.9893	-0.0134	0.98937	0.12427	15.444	4.623	0.07560	848.0	0.9676	0.9894	-0.0158	0.98950	0.12310	17.809	4.828	0.07310	936.3
0.7827	0.9893	-0.0101	0.98935	0.12588	15.515	4.639	0.07565	849.0	0.7040	0.9894	-0.0127	0.98948	0.12462	17.908	4.848	0.07315	937.6
0.8127	0.9893	-0.0068	0.98933	0.12752	15.567	4.650	0.07568	849.7	0.7805	0.9894	-0.0095	0.98946	0.12616	17.987	4.864	0.07319	938.7
0.8403	0.9893	-0.0034	0.98932	0.12919	15.600	4.658	0.07570	850.2	0.8870	0.9894	-0.0064	0.98944	0.12771	18.044	4.876	0.07322	939.4
0.8656	0.9893	0.0000	0.98932	0.13090	15.612	4.660	0.07570	850.4	0.5935	0.9894	-0.0032	0.98944	0.12929	18.080	4.883	0.07324	939.9
									0.5000	0.9894	0.0000	0.98943	0.13090	18.093	4.886	0.07324	940.1

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.3891 ENTRØPY=33.9742
GAMMA (AVG.)=1.3331 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
8.3891	0.9893	-0.0300	0.98975	0.11615	19.566	4.871	0.07065	1019.7
8.3002	0.9893	-0.0269	0.98971	0.11765	19.793	4.913	0.07075	1022.7
8.2113	0.9894	-0.0239	0.98967	0.11912	19.995	4.951	0.07083	1025.3
8.1224	0.9894	-0.0210	0.98964	0.12057	20.173	4.983	0.07091	1027.5
8.0335	0.9894	-0.0180	0.98961	0.12202	20.327	5.012	0.07098	1029.5
7.9445	0.9895	-0.0150	0.98959	0.12347	20.459	5.036	0.07103	1031.2
7.8556	0.9895	-0.0121	0.98956	0.12492	20.568	5.056	0.07108	1032.5
7.7667	0.9895	-0.0091	0.98955	0.12638	20.654	5.072	0.07112	1033.6
7.6778	0.9895	-0.0061	0.98954	0.12786	20.717	5.084	0.07114	1034.4
7.5889	0.9895	-0.0031	0.98953	0.12937	20.756	5.091	0.07116	1034.9
7.5000	0.9895	0.0000	0.98953	0.13090	20.771	5.094	0.07116	1035.1

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE = 8.3503 ENTRØPY=34.2175
GAMMA (AVG.)=1.3267 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
8.3503	0.9894	-0.0287	0.98981	0.11676	22.325	5.063	0.06891	1119.3
8.2653	0.9894	-0.0258	0.98977	0.11819	22.574	5.105	0.06900	1122.4
8.1802	0.9895	-0.0229	0.98974	0.11960	22.795	5.143	0.06908	1125.1
8.0952	0.9895	-0.0201	0.98971	0.12100	22.990	5.176	0.06915	1127.4
8.0102	0.9895	-0.0172	0.98968	0.12239	23.159	5.205	0.06921	1129.5
7.9251	0.9896	-0.0144	0.98966	0.12378	23.303	5.229	0.06927	1131.2
7.8401	0.9896	-0.0115	0.98964	0.12517	23.422	5.249	0.06931	1132.6
7.7551	0.9896	-0.0087	0.98963	0.12657	23.517	5.265	0.06934	1133.7
7.6701	0.9896	-0.0058	0.98962	0.12799	23.586	5.277	0.06937	1134.6
7.5850	0.9896	-0.0029	0.98961	0.12943	23.628	5.284	0.06938	1135.1
7.5000	0.9896	-0.0000	0.98961	0.13090	23.644	5.287	0.06939	1135.2

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 8.2760 ENTROPY=34.8149
GAMMA (AVG.)=1.3143 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2760	0.9896	-0.0262	0.98993	0.11793	30.056	5.486	0.06551	1390.8
8.1984	0.9896	-0.0236	0.98990	0.11925	30.364	5.528	0.06559	1394.2
8.1208	0.9896	-0.0210	0.98987	0.12054	30.637	5.566	0.06566	1397.2
8.0432	0.9897	-0.0184	0.98985	0.12182	30.878	5.599	0.06572	1399.8
7.9656	0.9897	-0.0158	0.98982	0.12310	31.087	5.628	0.06577	1402.1
7.8880	0.9897	-0.0132	0.98980	0.12438	31.265	5.653	0.06582	1404.0
7.8104	0.9897	-0.0106	0.98979	0.12565	31.412	5.673	0.06586	1405.6
7.7328	0.9897	-0.0079	0.98978	0.12694	31.529	5.689	0.06588	1406.8
7.6552	0.9898	-0.0053	0.98977	0.12824	31.614	5.701	0.06591	1407.8
7.5776	0.9898	-0.0027	0.98976	0.12956	31.666	5.708	0.06592	1408.3
7.5000	0.9898	-0.0000	0.98976	0.13090	31.685	5.710	0.06592	1408.5

CONE SEMI-ANGLE= 7.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE= 8.2235 ENTROPY=35.0910
GAMMA (AVG.)=1.3058 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
8.2235	0.9897	-0.0245	0.99002	0.11877	38.977	5.837	0.06307	1695.1
8.1512	0.9897	-0.0220	0.98999	0.12000	39.350	5.879	0.06314	1698.9
8.0788	0.9898	-0.0196	0.98997	0.12121	39.682	5.917	0.06320	1702.3
8.0065	0.9898	-0.0172	0.98994	0.12241	39.974	5.951	0.06325	1705.2
7.9341	0.9898	-0.0147	0.98992	0.12361	40.228	5.980	0.06330	1707.7
7.8618	0.9898	-0.0123	0.98991	0.12480	40.444	6.004	0.06334	1709.9
7.7894	0.9898	-0.0099	0.98989	0.12600	40.623	6.025	0.06337	1711.6
7.7171	0.9899	-0.0074	0.98988	0.12720	40.764	6.041	0.06340	1713.0
7.6447	0.9899	-0.0050	0.98988	0.12842	40.866	6.052	0.06342	1714.0
7.5723	0.9899	-0.0025	0.98987	0.12965	40.930	6.059	0.06343	1714.6
7.5000	0.9899	-0.0000	0.98987	0.13090	40.953	6.062	0.06343	1714.9

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 10474.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=12.2898 ENTROPY=32.2854
GAMMA (AVG.)=1.3908 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.8892	0.9771	-0.0744	0.97091	0.13849	5.126	2.861	0.13661	454.8
11.7003	0.9774	-0.0669	0.97036	0.14217	5.229	2.902	0.13702	457.4
11.5113	0.9776	-0.0595	0.97041	0.14573	5.320	2.938	0.13738	459.6
11.3224	0.9777	-0.0522	0.97021	0.14922	5.400	2.970	0.13764	461.5
11.1335	0.9780	-0.0448	0.97004	0.15269	5.469	2.997	0.13795	463.2
10.9446	0.9782	-0.0375	0.97090	0.15616	5.528	3.021	0.13818	464.6
10.7557	0.9783	-0.0302	0.97878	0.15966	5.578	3.040	0.13836	465.8
10.5667	0.9784	-0.0228	0.97868	0.16322	5.618	3.056	0.13851	466.7
10.3778	0.9785	-0.0153	0.97861	0.16687	5.648	3.067	0.13862	467.4
10.1889	0.9785	-0.0077	0.97856	0.17053	5.667	3.075	0.13869	467.8
10.0000	0.9785	0.0000	0.97854	0.17453	5.674	3.077	0.13872	468.0

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.04 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.8892 ENTROPY=32.5493
GAMMA (AVG.)=1.3928 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.8892	0.9785	-0.0620	0.98051	0.14423	6.982	3.323	0.12277	533.3
11.7003	0.9787	-0.0557	0.98032	0.14731	7.102	3.364	0.12308	535.9
11.5113	0.9789	-0.0496	0.98016	0.15032	7.209	3.401	0.12334	538.1
11.3224	0.9791	-0.0434	0.98002	0.15327	7.302	3.433	0.12357	540.0
11.1335	0.9792	-0.0373	0.97990	0.15621	7.384	3.460	0.12377	541.7
10.9446	0.9793	-0.0312	0.97980	0.15915	7.453	3.484	0.12394	543.1
10.7557	0.9794	-0.0251	0.97971	0.16211	7.512	3.503	0.12408	544.3
10.5667	0.9795	-0.0189	0.97964	0.16511	7.558	3.519	0.12419	545.2
10.3778	0.9795	-0.0127	0.97959	0.16816	7.592	3.531	0.12427	545.9
10.1889	0.9795	-0.0064	0.97956	0.17130	7.614	3.538	0.12432	546.3
10.0000	0.9795	0.0000	0.97955	0.17453	7.622	3.541	0.12434	546.5

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.6340 ENTROPY=32.8434
GAMMA (AVG.)=1.3722 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.6340	0.9795	-0.0540	0.98094	0.14800	9.172	3.736	0.11323	623.2
11.4706	0.9796	-0.0485	0.98080	0.15070	9.313	3.778	0.11340	625.7
11.3072	0.9797	-0.0432	0.98068	0.15333	9.437	3.815	0.11367	628.0
11.1438	0.9798	-0.0378	0.98057	0.15593	9.566	3.847	0.11385	630.0
10.9804	0.9799	-0.0325	0.98048	0.15852	9.641	3.875	0.11401	631.7
10.8170	0.9800	-0.0271	0.98040	0.16110	9.723	3.898	0.11414	633.1
10.6536	0.9801	-0.0218	0.98033	0.16370	9.790	3.918	0.11425	634.3
10.4902	0.9801	-0.0164	0.98028	0.16633	9.844	3.934	0.11434	635.2
10.3268	0.9802	-0.0110	0.98024	0.16900	9.884	3.945	0.11440	635.9
10.1634	0.9802	-0.0055	0.98022	0.17173	9.909	3.953	0.11444	636.4
10.0000	0.9802	0.0000	0.98021	0.17453	9.918	3.955	0.11445	636.5

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.4589 ENTROPY=33.1564
GAMMA (AVG.)=1.3603 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.4589	0.9801	-0.0484	0.98126	0.15064	11.699	4.104	0.10623	723.6
11.3130	0.9802	-0.0435	0.98115	0.15307	11.861	4.146	0.10643	726.2
11.1671	0.9803	-0.0387	0.98105	0.15545	12.005	4.183	0.10660	728.5
11.0212	0.9804	-0.0339	0.98096	0.15779	12.132	4.215	0.10675	730.6
10.8753	0.9805	-0.0291	0.98089	0.16013	12.242	4.243	0.10688	732.3
10.7294	0.9805	-0.0243	0.98082	0.16246	12.336	4.267	0.10699	733.8
10.5836	0.9806	-0.0195	0.98077	0.16480	12.414	4.287	0.10708	735.0
10.4377	0.9806	-0.0147	0.98073	0.16717	12.476	4.303	0.10715	736.0
10.2918	0.9806	-0.0099	0.98070	0.16958	12.522	4.315	0.10720	736.7
10.1459	0.9807	-0.0050	0.98068	0.17202	12.551	4.322	0.10723	737.2
10.0000	0.9807	0.0000	0.98067	0.17453	12.561	4.324	0.10724	737.3

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØLK ANGLE=11.2347 ENTRØPY=33.8043
GAMMA (AVG.)=1.3381 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.2347	0.9808	-0.0412	0.98170	0.15410	17.761	4.728	0.09668	953.5
11.1113	0.9809	-0.0371	0.98162	0.15617	17.974	4.770	0.09682	956.4
10.9878	0.9810	-0.0329	0.98155	0.15820	18.163	4.808	0.09695	959.0
10.8644	0.9811	-0.0288	0.98148	0.16022	18.329	4.841	0.09706	961.2
10.7408	0.9811	-0.0248	0.98143	0.16223	18.473	4.869	0.09716	963.1
10.6174	0.9812	-0.0207	0.98138	0.16423	18.597	4.893	0.09724	964.7
10.4939	0.9812	-0.0166	0.98134	0.16624	18.699	4.913	0.09731	966.0
10.3704	0.9812	-0.0125	0.98131	0.16827	18.780	4.929	0.09736	967.1
10.2469	0.9813	-0.0084	0.98129	0.17032	18.839	4.941	0.09740	967.9
10.1235	0.9813	-0.0042	0.98128	0.17241	18.876	4.948	0.09743	968.3
10.0000	0.9813	0.0000	0.98127	0.17453	18.889	4.951	0.09743	968.5

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHRCK ANGLE=11.3315 ENTRØPY=33.4787
GAMMA (AVG.)=1.3487 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.3315	0.9805	-0.0443	0.98151	0.15260	14.561	4.433	0.10089	833.9
11.1984	0.9806	-0.0399	0.98141	0.15482	14.748	4.475	0.10105	836.6
11.0652	0.9807	-0.0354	0.98133	0.15701	14.944	4.512	0.10120	839.0
10.9321	0.9808	-0.0310	0.98125	0.15917	15.059	4.545	0.10133	841.1
10.7989	0.9808	-0.0266	0.98119	0.16131	15.186	4.573	0.10144	843.0
10.6658	0.9809	-0.0223	0.98114	0.16346	15.294	4.597	0.10153	844.5
10.5326	0.9809	-0.0179	0.98109	0.16562	15.384	4.617	0.10161	845.8
10.3995	0.9810	-0.0135	0.98106	0.16779	15.455	4.633	0.10167	846.8
10.2663	0.9810	-0.0090	0.98103	0.17000	15.507	4.645	0.10171	847.5
10.1331	0.9810	-0.0045	0.98102	0.17224	15.540	4.652	0.10174	848.0
10.0000	0.9810	0.0000	0.98101	0.17453	15.551	4.654	0.10175	848.2

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.1588 ENTRØPY=34.1290
GAMMA (AVG.)=1.3290 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.1588	0.9811	-0.0387	0.98186	0.15528	21.297	4.994	0.09329	1082.4
11.0429	0.9812	-0.0348	0.98179	0.15723	21.538	5.037	0.09342	1085.4
10.9270	0.9812	-0.0310	0.98172	0.15915	21.752	5.075	0.09354	1088.1
10.8112	0.9813	-0.0271	0.98167	0.16105	21.940	5.108	0.09364	1090.4
10.6953	0.9813	-0.0233	0.98162	0.16295	22.104	5.136	0.09372	1092.4
10.5794	0.9814	-0.0194	0.98158	0.16483	22.243	5.161	0.09380	1094.1
10.4635	0.9814	-0.0156	0.98154	0.16673	22.359	5.181	0.09386	1095.5
10.3476	0.9814	-0.0117	0.98151	0.16864	22.450	5.197	0.09391	1096.6
10.2318	0.9815	-0.0079	0.98149	0.17057	22.517	5.208	0.09394	1097.4
10.1159	0.9815	-0.0039	0.98148	0.17253	22.558	5.216	0.09396	1097.9
10.0000	0.9815	0.0000	0.98148	0.17453	22.573	5.218	0.09397	1098.1

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.0978 ENTRØPY=34.4504
GAMMA (AVG.)=1.3213 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
11.0978	0.9813	-0.0368	0.98199	0.15624	25.170	5.235	0.09052	1220.4
10.9860	0.9814	-0.0331	0.98192	0.15810	25.441	5.278	0.09064	1223.6
10.8782	0.9814	-0.0294	0.98186	0.15992	25.682	5.316	0.09074	1226.4
10.7684	0.9815	-0.0257	0.98181	0.16173	25.894	5.349	0.09084	1228.8
10.6587	0.9815	-0.0221	0.98177	0.16353	26.078	5.378	0.09092	1230.9
10.5489	0.9816	-0.0184	0.98173	0.16532	26.234	5.402	0.09098	1232.7
10.4391	0.9816	-0.0148	0.98170	0.16713	26.364	5.422	0.09104	1234.2
10.3293	0.9816	-0.0111	0.98168	0.16894	26.467	5.438	0.09108	1235.4
10.2195	0.9816	-0.0074	0.98166	0.17078	26.542	5.450	0.09111	1236.2
10.1098	0.9816	-0.0037	0.98165	0.17264	26.588	5.457	0.09113	1236.7
10.0000	0.9816	-0.0000	0.98164	0.17453	26.605	5.460	0.09114	1236.9

CONE SEMI-ANGLE=10.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.0478 ENTRØPY=34.7669
GAMMA (AVG.)=1.3151 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0478	0.9815	-0.0351	0.98210	0.15704	29.381	5.454	0.08822	1367.5
10.9430	0.9815	-0.0316	0.98204	0.15881	29.683	5.497	0.08833	1370.9
10.8383	0.9816	-0.0281	0.98198	0.16055	29.952	5.534	0.08843	1373.8
10.7335	0.9816	-0.0246	0.98194	0.16229	30.189	5.568	0.08851	1376.4
10.6287	0.9817	-0.0211	0.98190	0.16401	30.395	5.596	0.08859	1378.7
10.5239	0.9817	-0.0176	0.98186	0.16573	30.570	5.621	0.08865	1380.6
10.4191	0.9817	-0.0141	0.98183	0.16745	30.715	5.641	0.08870	1382.1
10.3143	0.9818	-0.0106	0.98181	0.16919	30.829	5.657	0.08874	1383.3
10.2096	0.9818	-0.0071	0.98180	0.17095	30.913	5.669	0.08877	1384.2
10.1048	0.9818	-0.0036	0.98179	0.17272	30.965	5.676	0.08879	1384.8
10.0000	0.9818	0.0000	0.98178	0.17453	30.983	5.679	0.08879	1385.0

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=11.0063 ENTRØPY=35.0774
GAMMA (AVG.)=1.3100 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
11.0063	0.9816	-0.0338	0.98219	0.15770	33.928	5.652	0.08630	1523.8
10.9057	0.9817	-0.0304	0.98213	0.15940	34.265	5.694	0.08640	1527.4
10.8051	0.9817	-0.0270	0.98208	0.16108	34.563	5.732	0.08649	1530.6
10.7044	0.9818	-0.0236	0.98204	0.16275	34.827	5.766	0.08657	1533.3
10.6038	0.9818	-0.0203	0.98200	0.16441	35.055	5.795	0.08664	1535.7
10.5032	0.9818	-0.0169	0.98197	0.16606	35.250	5.819	0.08669	1537.7
10.4025	0.9819	-0.0136	0.98194	0.16772	35.411	5.839	0.08674	1539.4
10.3019	0.9819	-0.0102	0.98192	0.16940	35.538	5.855	0.08678	1540.7
10.2013	0.9819	-0.0068	0.98191	0.17108	35.631	5.867	0.08681	1541.6
10.1006	0.9819	-0.0034	0.98190	0.17279	35.689	5.874	0.08682	1542.2
10.0000	0.9819	0.0000	0.98190	0.17453	35.709	5.877	0.08683	1542.4

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 36675.1 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=10.9053

GAMMA (AVG.)=1.2986

ENTRØPY=36.1094

STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=10.0

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=10.9715

GAMMA (AVG.)=1.3059

ENTRØPY=35.3813

STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)	ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
10.9715	0.9817	-0.0326	0.98226	0.15825	38.813	5.831	0.08466	1689.6	10.9053	0.9819	-0.0305	0.98241	0.15932	52.498	6.210	0.08154	2145.9
10.8744	0.9818	-0.0294	0.98221	0.15990	39.185	5.874	0.08476	1693.4	10.8148	0.9820	-0.0274	0.98237	0.16086	52.968	6.253	0.08162	2150.3
10.7772	0.9818	-0.0261	0.98217	0.16153	39.515	5.912	0.08485	1696.7	10.7243	0.9820	-0.0244	0.98233	0.16238	53.386	6.291	0.08170	2154.2
10.6801	0.9819	-0.0228	0.98213	0.16314	39.807	5.945	0.08492	1699.6	10.6337	0.9821	-0.0213	0.98229	0.16388	53.755	6.324	0.08176	2157.6
10.5829	0.9819	-0.0196	0.98209	0.16474	40.060	5.974	0.08499	1702.2	10.5432	0.9821	-0.0183	0.98226	0.16539	54.075	6.353	0.08182	2160.5
10.4858	0.9819	-0.0164	0.98206	0.16635	40.275	5.999	0.08504	1704.3	10.4527	0.9821	-0.0153	0.98224	0.16689	54.347	6.378	0.08187	2163.0
10.3886	0.9820	-0.0131	0.98204	0.16795	40.453	6.019	0.08508	1706.1	10.3621	0.9821	-0.0122	0.98222	0.16839	54.572	6.398	0.08191	2165.1
10.2915	0.9820	-0.0099	0.98202	0.16957	40.594	6.035	0.08512	1707.4	10.2716	0.9822	-0.0092	0.98220	0.16990	54.749	6.414	0.08194	2166.7
10.1943	0.9820	-0.0066	0.98200	0.17120	40.696	6.047	0.08515	1708.5	10.1811	0.9822	-0.0062	0.98219	0.17142	54.879	6.426	0.08196	2167.9
10.0971	0.9820	-0.0033	0.98200	0.17285	40.760	6.054	0.08516	1709.1	10.0905	0.9822	-0.0031	0.98218	0.17297	54.958	6.433	0.08198	2168.6
10.0000	0.9820	0.0000	0.98199	0.17453	40.783	6.056	0.08517	1709.3	10.0000	0.9822	0.0000	0.98218	0.17453	54.987	6.436	0.08198	2168.9

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 FREE STREAM CONDITIONS
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 41914.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=10.7812 ENTRPHY=36.9045
 GAMMA TAVG.=1.1233 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
10.7812	0.9823	-0.0265	0.98270	0.16125	68.297	7.072	0.07088	2407.7
10.7031	0.9824	-0.0238	0.98267	0.16260	68.832	7.121	0.07092	2409.4
10.6249	0.9824	-0.0211	0.98264	0.16394	69.306	7.164	0.07094	2411.0
10.5468	0.9824	-0.0185	0.98261	0.16527	69.724	7.202	0.07096	2412.3
10.4687	0.9825	-0.0159	0.98259	0.16658	70.085	7.236	0.07099	2413.3
10.3906	0.9825	-0.0132	0.98257	0.16789	70.392	7.263	0.07100	2414.5
10.3125	0.9825	-0.0106	0.98255	0.16920	70.644	7.286	0.07101	2415.3
10.2343	0.9825	-0.0080	0.98254	0.17052	70.843	7.305	0.07103	2415.9
10.1562	0.9825	-0.0053	0.98253	0.17184	70.988	7.318	0.07103	2416.2
10.0781	0.9825	-0.0027	0.98253	0.17318	71.076	7.326	0.07104	2416.6
10.0000	0.9825	-0.0000	0.98252	0.17453	71.109	7.329	0.07104	2416.7

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO. = 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 8302.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=15.4002 ENTROPY=32.2855
GAMMA (AVG.)=1.3909 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.4002	0.9641	-0.0930	0.96856	0.17260	5.105	2.855	0.17292	454.0
15.1102	0.9645	-0.0836	0.96814	0.17724	5.209	2.896	0.17348	456.5
14.9202	0.9649	-0.0744	0.96778	0.18174	5.299	2.932	0.17395	458.7
14.7302	0.9653	-0.0652	0.96747	0.18615	5.379	2.964	0.17437	460.7
14.5401	0.9656	-0.0561	0.96720	0.19053	5.448	2.991	0.17472	462.3
14.3501	0.9659	-0.0467	0.96697	0.19492	5.507	3.015	0.17503	463.7
14.1601	0.9660	-0.0378	0.96677	0.19934	5.557	3.034	0.17528	464.9
13.9701	0.9662	-0.0285	0.96662	0.20385	5.597	3.050	0.17548	465.8
13.7800	0.9663	-0.0192	0.96651	0.20846	5.624	3.061	0.17563	466.5
12.7400	0.9664	-0.0097	0.96643	0.21322	5.645	3.069	0.17572	467.0
12.5000	0.9664	0.0000	0.96640	0.21817	5.652	3.072	0.17575	467.1

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.4340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.7961 ENTROPY=32.6157
GAMMA (AVG.)=1.3805 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	AMB	MU	T (K)	
14.7961	0.9668	-0.0746	0.96971	0.18125	7.464	3.424	0.15182	553.4
14.5665	0.9671	-0.0671	0.96944	0.18500	7.589	3.465	0.15220	555.9
14.3369	0.9674	-0.0596	0.96920	0.18866	7.699	3.502	0.15252	558.1
14.1073	0.9676	-0.0523	0.96900	0.19226	7.797	3.534	0.15281	560.1
13.8777	0.9678	-0.0449	0.96882	0.19584	7.881	3.561	0.15305	561.7
13.6481	0.9679	-0.0376	0.96867	0.19943	7.953	3.585	0.15326	563.1
13.4184	0.9681	-0.0302	0.96854	0.20303	8.014	3.605	0.15344	564.3
13.1888	0.9682	-0.0228	0.96844	0.20669	8.062	3.620	0.15357	565.2
12.9592	0.9682	-0.0153	0.96837	0.21042	8.097	3.632	0.15367	565.9
12.7296	0.9683	-0.0077	0.96832	0.21423	8.119	3.639	0.15374	566.3
12.5000	0.9683	0.0000	0.96830	0.21817	8.128	3.642	0.15376	566.5

CRNF SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=14.4451 ENTRPHY=32.9920
GAMMA (AVG.)=1.3666 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.4451	0.9684	-0.0637	0.97047	0.18647	10.343	3.918	0.13832	670.1
14.7506	0.9686	-0.0573	0.97028	0.18968	10.494	3.960	0.13860	672.7
14.0361	0.9688	-0.0509	0.97010	0.19283	10.628	3.997	0.13885	675.0
13.3616	0.9689	-0.0446	0.96995	0.19594	10.745	4.029	0.13907	677.0
13.6671	0.9691	-0.0383	0.96982	0.19903	10.847	4.057	0.13925	678.7
13.9726	0.9692	-0.0320	0.96971	0.20212	10.934	4.081	0.13941	680.2
13.2781	0.9693	-0.0257	0.96962	0.20523	11.007	4.101	0.13954	681.4
14.0435	0.9694	-0.0194	0.96955	0.20838	11.065	4.116	0.13964	682.3
12.8890	0.9694	-0.0130	0.96949	0.21157	11.109	4.128	0.13972	683.0
12.6945	0.9694	-0.0065	0.96946	0.21483	11.133	4.135	0.13976	683.5
12.5000	0.9694	0.0000	0.96944	0.21817	11.143	4.138	0.13978	683.6

CRNF SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=14.2179 ENTRPHY=33.3900
GAMMA (AVG.)=1.3518 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
14.2179	0.9694	-0.0565	0.97101	0.18992	13.745	4.346	0.12893	802.7
14.0461	0.9695	-0.0508	0.97085	0.19278	13.925	4.388	0.12916	805.4
13.8744	0.9697	-0.0452	0.97072	0.19560	14.084	4.426	0.12936	807.8
13.7026	0.9698	-0.0396	0.97060	0.19837	14.224	4.458	0.12953	809.9
13.5308	0.9699	-0.0340	0.97049	0.20114	14.346	4.486	0.12968	811.7
13.3590	0.9700	-0.0284	0.97041	0.20390	14.451	4.510	0.12981	813.3
13.1872	0.9701	-0.0228	0.97033	0.20668	14.537	4.530	0.12991	814.5
13.0154	0.9701	-0.0172	0.97028	0.20948	14.606	4.546	0.13000	815.5
12.8436	0.9702	-0.0115	0.97023	0.21232	14.656	4.558	0.13006	816.2
12.6718	0.9702	-0.0058	0.97021	0.21521	14.687	4.565	0.13009	816.7
12.5000	0.9702	0.0000	0.97020	0.21817	14.699	4.568	0.13011	816.9

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=14.0591 ENTRØPY=33.7954
GAMMA (AVG.)=1.3383 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
14.0591	0.9700	-0.0515	0.97141	0.19237	17.669	4.720	0.12204	950.2
13.9032	0.9702	-0.0463	0.97128	0.19499	17.881	4.763	0.12223	953.0
13.7472	0.9703	-0.0411	0.97116	0.19756	18.069	4.800	0.12240	955.6
13.5913	0.9704	-0.0360	0.97106	0.20010	18.235	4.833	0.12254	957.8
13.4354	0.9705	-0.0309	0.97098	0.20263	18.379	4.861	0.12267	959.7
13.2795	0.9706	-0.0258	0.97090	0.20516	18.502	4.886	0.12278	961.3
13.1236	0.9706	-0.0207	0.97084	0.20770	18.604	4.906	0.12286	962.6
12.9677	0.9707	-0.0156	0.97080	0.21026	18.684	4.922	0.12293	963.7
12.8118	0.9707	-0.0104	0.97075	0.21285	18.743	4.933	0.12298	964.4
12.6559	0.9707	-0.0052	0.97074	0.21548	18.780	4.940	0.12302	964.9
12.5000	0.9707	0.0000	0.97073	0.21817	18.793	4.943	0.12303	965.1

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.9419 ENTRØPY=34.1998
GAMMA (AVG.)=1.3272 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.9419	0.9705	-0.0477	0.97171	0.19421	22.117	5.049	0.11679	1111.5
13.7977	0.9707	-0.0429	0.97160	0.19663	22.364	5.092	0.11695	1114.9
13.6535	0.9708	-0.0381	0.97150	0.19902	22.584	5.129	0.11710	1117.6
13.5093	0.9708	-0.0334	0.97142	0.20139	22.777	5.163	0.11725	1120.0
13.3651	0.9709	-0.0287	0.97134	0.20374	22.945	5.191	0.11734	1122.0
13.2209	0.9710	-0.0239	0.97128	0.20609	23.088	5.216	0.11743	1123.7
13.0768	0.9710	-0.0192	0.97123	0.20845	23.207	5.236	0.11751	1125.1
12.9326	0.9711	-0.0145	0.97118	0.21083	23.301	5.252	0.11757	1126.2
12.7884	0.9711	-0.0097	0.97115	0.21324	23.369	5.263	0.11761	1127.1
12.6442	0.9711	-0.0049	0.97113	0.21568	23.412	5.271	0.11764	1127.6
12.5000	0.9711	0.0000	0.97113	0.21817	23.427	5.273	0.11765	1127.7

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NB.=20.00 ALTITUDE=20000.0 FEET PRESSURE=4.1346E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.94 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.8522 ENTROPY=34.5985
GAMMA (AVG.)=1.3183 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.9522	0.9709	-0.0448	0.97195	0.1956	27.088	5.340	0.11269	1287.7
13.7170	0.9710	-0.0403	0.97185	0.19790	27.374	5.382	0.11284	1291.0
13.5918	0.9711	-0.0358	0.97176	0.20015	27.627	5.420	0.11297	1293.9
13.4666	0.9712	-0.0314	0.97167	0.20238	27.850	5.453	0.11308	1296.4
13.3413	0.9712	-0.0269	0.97162	0.20460	28.044	5.482	0.11318	1298.5
13.1761	0.9713	-0.0225	0.97157	0.20681	28.210	5.507	0.11326	1300.4
13.0409	0.9714	-0.0180	0.97152	0.20904	28.346	5.527	0.11333	1301.9
12.9057	0.9714	-0.0136	0.97148	0.21128	28.454	5.543	0.11339	1303.1
12.7704	0.9714	-0.0091	0.97146	0.21354	28.533	5.555	0.11343	1304.0
12.6352	0.9714	-0.0046	0.97144	0.21583	28.582	5.562	0.11345	1304.5
12.5000	0.9714	-0.0000	0.97143	0.21817	28.600	5.564	0.11346	1304.7

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.7818 ENTROPY=34.9887
GAMMA (AVG.)=1.3114 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.7818	0.9712	-0.0428	0.97214	0.19674	32.584	5.507	0.10942	1477.8
13.6536	0.9713	-0.0383	0.97205	0.19891	32.910	5.639	0.10955	1481.4
13.5255	0.9714	-0.0340	0.97197	0.20105	33.200	5.677	0.10967	1484.4
13.3973	0.9714	-0.0298	0.97190	0.20317	33.456	5.711	0.10978	1487.1
13.2691	0.9715	-0.0256	0.97185	0.20528	33.677	5.739	0.10987	1489.5
13.1409	0.9716	-0.0213	0.97179	0.20738	33.866	5.764	0.10995	1491.5
13.0127	0.9716	-0.0171	0.97175	0.20950	34.023	5.784	0.11001	1493.1
12.8845	0.9716	-0.0129	0.97172	0.21163	34.146	5.800	0.11006	1494.4
12.7564	0.9717	-0.0086	0.97170	0.21377	34.236	5.812	0.11009	1495.3
12.6282	0.9717	-0.0043	0.97168	0.21595	34.292	5.819	0.11012	1495.9
12.5000	0.9717	0.0000	0.97168	0.21817	34.312	5.822	0.11012	1496.1

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NB = 24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.7254 ENTRØPY=35.3688

GAMMA (AVG.)=1.3060 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.7254	0.9714	-0.0407	0.97230	0.19764	38.603	5.824	0.10677	1682.5
13.6029	0.9715	-0.0366	0.97222	0.19972	38.973	5.867	0.10690	1686.3
13.4803	0.9716	-0.0326	0.97214	0.20177	39.302	5.905	0.10701	1689.6
13.3578	0.9717	-0.0285	0.97208	0.20380	39.592	5.938	0.10711	1692.5
13.2352	0.9717	-0.0245	0.97203	0.20582	39.844	5.967	0.10719	1695.0
13.1127	0.9718	-0.0204	0.97198	0.20784	40.059	5.992	0.10726	1697.2
12.9902	0.9718	-0.0164	0.97194	0.20987	40.236	6.012	0.10732	1698.9
12.8676	0.9718	-0.0123	0.97191	0.21191	40.376	6.028	0.10736	1700.3
12.7451	0.9719	-0.0082	0.97189	0.21396	40.478	6.040	0.10740	1701.3
12.6225	0.9719	-0.0041	0.97188	0.21605	40.541	6.047	0.10742	1701.9
12.5000	0.9719	0.0000	0.97187	0.21817	40.564	6.049	0.10743	1702.2

CONE SEMI-ANGLE=12.5

FREE STREAM CONDITIONS

MACH NB = 26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.6795 ENTRØPY=35.7379

GAMMA (AVG.)=1.3019 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
13.6795	0.9716	-0.0393	0.97243	0.19838	45.145	6.025	0.10460	1901.9
13.5615	0.9717	-0.0353	0.97235	0.20038	45.562	6.068	0.10472	1906.0
13.4436	0.9718	-0.0314	0.97228	0.20235	45.934	6.106	0.10482	1909.6
13.3256	0.9718	-0.0275	0.97222	0.20431	46.261	6.139	0.10491	1912.7
13.2077	0.9719	-0.0236	0.97217	0.20626	46.545	6.168	0.10499	1915.5
13.0897	0.9719	-0.0197	0.97213	0.20821	46.787	6.193	0.10506	1917.8
12.9718	0.9720	-0.0158	0.97210	0.21017	46.987	6.213	0.10511	1919.7
12.8538	0.9720	-0.0119	0.97207	0.21214	47.145	6.229	0.10516	1921.1
12.7359	0.9720	-0.0079	0.97205	0.21412	47.260	6.241	0.10519	1922.2
12.6179	0.9720	-0.0040	0.97203	0.21613	47.331	6.248	0.10521	1922.9
12.5000	0.9720	-0.0000	0.97203	0.21817	47.356	6.251	0.10521	1923.1

CRNE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRAPPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.6416 ENTRAPPY=36.0957
GAMMA (AVG.)=1.2987 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHE	MU	T (K)
13.6416	0.9718	-0.0380	0.97253	0.19999	52.211	6.203	0.10280	2136.4
13.5274	0.9719	-0.0342	0.97246	0.20093	52.679	6.246	0.10291	2140.8
13.4132	0.9719	-0.0304	0.97240	0.20286	53.095	6.284	0.10301	2144.7
13.2991	0.9720	-0.0266	0.97234	0.20474	53.462	6.318	0.10309	2148.1
13.1849	0.9720	-0.0228	0.97230	0.20663	53.780	6.347	0.10317	2151.0
13.0708	0.9721	-0.0191	0.97226	0.20852	54.051	6.371	0.10323	2153.5
12.9566	0.9721	-0.0153	0.97222	0.21042	54.276	6.392	0.10328	2155.5
12.8425	0.9721	-0.0115	0.97220	0.21232	54.452	6.408	0.10332	2157.2
12.7283	0.9721	-0.0077	0.97218	0.21425	54.581	6.414	0.10335	2158.3
12.6142	0.9722	-0.0039	0.97217	0.21619	54.660	6.427	0.10337	2159.1
12.5000	0.9722	-0.0000	0.97216	0.21817	54.689	6.429	0.10338	2159.3

CRNE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRAPPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.5676 ENTRAPPY=36.5111
GAMMA (AVG.)=1.1423 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHE	MU	T (K)
13.5676	0.9721	-0.0357	0.97275	0.20007	59.783	6.567	0.09358	2299.3
13.4608	0.9722	-0.0321	0.97269	0.20192	60.293	6.615	0.09363	2302.0
13.3540	0.9722	-0.0285	0.97263	0.20374	60.745	6.656	0.09366	2304.4
13.2473	0.9723	-0.0250	0.97258	0.20554	61.142	6.694	0.09370	2306.3
13.1405	0.9723	-0.0214	0.97254	0.20733	61.486	6.725	0.09373	2308.1
13.0338	0.9723	-0.0179	0.97250	0.20912	61.777	6.753	0.09375	2309.4
12.9270	0.9724	-0.0143	0.97247	0.21090	62.018	6.775	0.09377	2310.6
12.8203	0.9724	-0.0108	0.97245	0.21269	62.207	6.793	0.09379	2311.5
12.7135	0.9724	-0.0072	0.97243	0.21450	62.345	6.805	0.09379	2312.1
12.6067	0.9724	-0.0036	0.97242	0.21632	62.430	6.813	0.09380	2312.6
12.5000	0.9724	0.0000	0.97242	0.21817	62.460	6.816	0.09381	2312.6

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRORPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.3785 ENTRORPY=37.4493
GAMMA (AVG.)=1.1146 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.2454	0.9729	-0.0295	0.97331	0.20319	81.114	7.845	0.08432	2534.0
13.1708	0.9729	-0.0265	0.97327	0.20472	81.679	7.893	0.08436	2535.7
13.0963	0.9729	-0.0236	0.97323	0.20622	82.180	7.936	0.08439	2537.4
13.0217	0.9730	-0.0206	0.97319	0.20772	82.620	7.973	0.08442	2538.6
12.9472	0.9730	-0.0177	0.97317	0.20920	83.002	8.006	0.08444	2539.8
12.8727	0.9730	-0.0147	0.97314	0.21068	83.326	8.034	0.08447	2540.5
12.7981	0.9730	-0.0118	0.97312	0.21216	83.593	8.056	0.08448	2541.4
12.7236	0.9731	-0.0089	0.97310	0.21365	83.802	8.074	0.08450	2542.0
12.6491	0.9731	-0.0059	0.97309	0.21514	83.954	8.087	0.08451	2542.6
12.5745	0.9731	-0.0030	0.97309	0.21664	84.048	8.095	0.08451	2542.8
12.5000	0.9731	0.0000	0.97308	0.21817	84.081	8.098	0.08451	2542.8

CONE SEMI-ANGLE=12.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRORPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=13.2454 ENTRORPY=38.3936
GAMMA (AVG.)=1.1205 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
13.2454	0.9734	-0.0251	0.97372	0.20543	105.726	9.139	0.07820	2745.9
13.1708	0.9734	-0.0225	0.97369	0.20672	106.344	9.186	0.07823	2747.6
13.0963	0.9735	-0.0200	0.97366	0.20800	106.894	9.228	0.07826	2748.9
13.0217	0.9735	-0.0175	0.97364	0.20927	107.378	9.264	0.07829	2750.2
12.9472	0.9735	-0.0150	0.97362	0.21053	107.798	9.296	0.07831	2751.1
12.8727	0.9735	-0.0125	0.97360	0.21179	108.154	9.323	0.07833	2752.0
12.7981	0.9735	-0.0100	0.97358	0.21305	108.447	9.345	0.07834	2752.7
12.7236	0.9735	-0.0075	0.97357	0.21432	108.678	9.363	0.07836	2753.3
12.6491	0.9736	-0.0050	0.97356	0.21559	108.844	9.376	0.07836	2753.7
12.5745	0.9736	-0.0025	0.97356	0.21687	108.947	9.383	0.07837	2753.9
12.5000	0.9736	0.0000	0.97356	0.21817	108.983	9.387	0.07837	2753.8

GD4E SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NR=4 0.00 ALTITUDE=200000.0 FEET PRESSURE=4.1346E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE=456.92 DEG. K
VELOCITY= 6267.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=19.0000 ENTRPHY=32.1714
GAMMA (AVG.)=1.3834 STAG. ENTHALPY=2.2509E 07 FT. 5. /SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.9119	0.9515	-0.0930	0.95605	0.21522	4.289	2.601	0.22583	418.5
17.6207	0.9520	-0.0836	0.95563	0.21995	4.384	2.643	0.22671	421.1
17.3295	0.9524	-0.0743	0.95526	0.22456	4.467	2.679	0.22747	423.3
17.0384	0.9527	-0.0652	0.95493	0.22909	4.540	2.710	0.22813	425.3
16.7472	0.9530	-0.0560	0.95466	0.23360	4.604	2.737	0.22864	426.9
16.4560	0.9533	-0.0468	0.95442	0.23812	4.659	2.761	0.22910	428.4
16.1648	0.9535	-0.0376	0.95422	0.24267	4.704	2.780	0.22958	429.8
15.8736	0.9536	-0.0284	0.95406	0.24728	4.741	2.796	0.22990	430.5
15.5824	0.9538	-0.0191	0.95395	0.25199	4.769	2.807	0.23014	431.2
15.2912	0.9538	-0.0096	0.95387	0.25682	4.787	2.815	0.23029	431.7
15.0000	0.9538	0.0000	0.95385	0.26180	4.793	2.818	0.23034	431.8

GD4E SEMI-ANGLE=15.0

FREE STREAM CONDITIONS
MACH NR=4 0.00 ALTITUDE=200000.0 FEET PRESSURE=4.1346E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=17.9119 ENTRPHY=32.5398
GAMMA (AVG.)=1.3831 STAG. ENTHALPY=3.7881E 07 FT. 50./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.9119	0.9515	-0.0930	0.95605	0.21522	6.913	3.308	0.18904	530.5
17.6207	0.9520	-0.0836	0.95563	0.21995	7.033	3.349	0.18956	533.0
17.3295	0.9524	-0.0743	0.95526	0.22456	7.139	3.386	0.19002	535.2
17.0384	0.9527	-0.0652	0.95493	0.22909	7.232	3.418	0.19041	537.2
16.7472	0.9530	-0.0560	0.95466	0.23360	7.313	3.445	0.19075	538.8
16.4560	0.9533	-0.0468	0.95442	0.23812	7.382	3.469	0.19104	540.2
16.1648	0.9535	-0.0376	0.95422	0.24267	7.440	3.488	0.19128	541.4
15.8736	0.9536	-0.0284	0.95406	0.24728	7.486	3.504	0.19147	542.3
15.5824	0.9538	-0.0191	0.95395	0.25199	7.521	3.516	0.19161	543.0
15.2912	0.9538	-0.0096	0.95387	0.25682	7.542	3.523	0.19170	543.4
15.0000	0.9538	0.0000	0.95385	0.26180	7.550	3.526	0.19173	543.6

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=17.3665 ENTROPY=32.9844
GAMMA (AVG.)=1.3668 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.3665	0.9544	-0.0764	0.95746	0.22327	10.282	3.909	0.16821	667.7
17.1299	0.9547	-0.0687	0.95717	0.22718	10.433	3.951	0.16857	670.3
16.8932	0.9550	-0.0610	0.95692	0.23100	10.566	3.988	0.16889	672.6
16.6566	0.9552	-0.0535	0.95670	0.23478	10.683	4.020	0.16917	674.6
16.4199	0.9554	-0.0459	0.95651	0.23853	10.784	4.048	0.16940	676.3
16.1833	0.9556	-0.0384	0.95635	0.24229	10.871	4.072	0.16961	677.7
15.9466	0.9557	-0.0308	0.95621	0.24607	10.944	4.092	0.16977	678.9
15.7100	0.9558	-0.0232	0.95611	0.24989	11.001	4.107	0.16991	679.9
15.4733	0.9559	-0.0156	0.95603	0.25377	11.043	4.119	0.17000	680.6
15.2366	0.9559	-0.0078	0.95598	0.25773	11.070	4.126	0.17006	681.0
15.0000	0.9560	0.0000	0.95596	0.26180	11.079	4.129	0.17008	681.2

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=17.0444 ENTROPY=33.4612
GAMMA (AVG.)=1.3493 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
17.0444	0.9561	-0.0664	0.95837	0.22817	14.398	4.416	0.15480	827.7
16.8400	0.9563	-0.0597	0.95816	0.23157	14.584	4.458	0.15507	830.4
16.6355	0.9565	-0.0531	0.95796	0.23492	14.748	4.495	0.15532	832.8
16.4311	0.9567	-0.0465	0.95780	0.23823	14.893	4.528	0.15553	834.9
16.2266	0.9568	-0.0399	0.95765	0.24152	15.018	4.556	0.15572	836.7
16.0222	0.9569	-0.0333	0.95753	0.24481	15.126	4.580	0.15587	838.3
15.8178	0.9571	-0.0268	0.95743	0.24812	15.215	4.600	0.15600	839.6
15.6133	0.9571	-0.0201	0.95735	0.25146	15.285	4.616	0.15610	840.6
15.4089	0.9572	-0.0135	0.95729	0.25484	15.337	4.628	0.15618	841.3
15.2044	0.9572	-0.0068	0.95725	0.25828	15.369	4.635	0.15622	841.8
15.0000	0.9572	0.0000	0.95724	0.26180	15.381	4.637	0.15624	841.9

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.8322 ENTROPY=33.9462
GAMMA (AVG.)=1.3339 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.8322	0.9572	-0.0597	0.95902	0.23145	19.262	4.848	0.14546	1008.7
16.6490	0.9573	-0.0537	0.95884	0.23452	19.487	4.890	0.14569	1011.6
16.4658	0.9575	-0.0478	0.95868	0.23755	19.687	4.927	0.14589	1014.2
16.2826	0.9576	-0.0418	0.95855	0.24054	19.862	4.960	0.14607	1016.4
16.0993	0.9578	-0.0359	0.95843	0.24352	20.015	4.989	0.14622	1018.4
15.9161	0.9579	-0.0300	0.95833	0.24649	20.145	5.013	0.14635	1020.0
15.7329	0.9579	-0.0241	0.95825	0.24948	20.253	5.033	0.14645	1021.4
15.5497	0.9580	-0.0181	0.95818	0.25250	20.338	5.049	0.14654	1022.5
15.3664	0.9581	-0.0121	0.95813	0.25554	20.401	5.061	0.14660	1023.3
15.1832	0.9581	-0.0061	0.95810	0.25864	20.440	5.068	0.14664	1023.7
15.0000	0.9581	0.0000	0.95809	0.26180	20.454	5.071	0.14665	1023.9

CONE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.6823 ENTROPY=34.4270
GAMMA (AVG.)=1.3219 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
16.6823	0.9579	-0.0550	0.95949	0.23380	24.875	5.219	0.13865	1210.0
16.5141	0.9581	-0.0495	0.95934	0.23663	25.143	5.261	0.13885	1213.1
16.3459	0.9582	-0.0440	0.95920	0.23943	25.382	5.299	0.13902	1215.9
16.1776	0.9583	-0.0385	0.95909	0.24219	25.592	5.332	0.13917	1218.4
16.0094	0.9584	-0.0331	0.95899	0.24494	25.774	5.361	0.13930	1220.5
15.8412	0.9585	-0.0276	0.95890	0.24769	25.930	5.385	0.13941	1222.3
15.6729	0.9586	-0.0221	0.95883	0.25045	26.059	5.405	0.13950	1223.7
15.5047	0.9586	-0.0167	0.95878	0.25323	26.160	5.421	0.13958	1224.9
15.3365	0.9587	-0.0111	0.95874	0.25605	26.235	5.433	0.13963	1225.7
15.1682	0.9587	-0.0056	0.95871	0.25890	26.281	5.440	0.13966	1226.3
15.0000	0.9587	0.0000	0.95870	0.26180	26.297	5.443	0.13967	1226.4

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=16.5715 ENTRØPY=34.8972
GAMMA (AVG.)=1.3128 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.5715	0.9585	-0.0515	0.95984	0.23555	31.237	5.539	0.13352	1431.6
16.4144	0.9586	-0.0463	0.95971	0.23821	31.553	5.581	0.13369	1435.0
16.2572	0.9587	-0.0412	0.95960	0.24083	31.834	5.619	0.13384	1438.1
16.1001	0.9588	-0.0360	0.95949	0.24342	32.082	5.653	0.13398	1440.7
15.9429	0.9589	-0.0309	0.95941	0.24601	32.297	5.681	0.13409	1443.0
15.7858	0.9590	-0.0258	0.95933	0.24859	32.480	5.706	0.13419	1445.0
15.6286	0.9590	-0.0207	0.95927	0.25118	32.632	5.726	0.13427	1446.6
15.4715	0.9591	-0.0156	0.95922	0.25378	32.751	5.742	0.13434	1447.8
15.3143	0.9591	-0.0104	0.95919	0.25642	32.839	5.754	0.13438	1448.7
15.1571	0.9591	-0.0052	0.95916	0.25909	32.893	5.761	0.13441	1449.3
15.0000	0.9592	0.0000	0.95915	0.26180	32.912	5.764	0.13442	1449.5

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=16.4870 ENTRØPY=35.3535
GAMMA (AVG.)=1.3062 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.4870	0.9589	-0.0488	0.96012	0.23690	38.347	5.815	0.12955	1673.9
16.3383	0.9590	-0.0439	0.96000	0.23942	38.716	5.858	0.12970	1677.6
16.1896	0.9591	-0.0390	0.95990	0.24190	39.043	5.896	0.12984	1681.0
16.0409	0.9592	-0.0342	0.95981	0.24437	39.332	5.929	0.12996	1683.9
15.8922	0.9593	-0.0293	0.95973	0.24682	39.583	5.958	0.13007	1686.4
15.7435	0.9594	-0.0245	0.95966	0.24927	39.796	5.983	0.13016	1688.5
15.5948	0.9594	-0.0196	0.95961	0.25173	39.973	6.003	0.13023	1690.3
15.4461	0.9594	-0.0148	0.95956	0.25420	40.112	6.019	0.13029	1691.6
15.2974	0.9595	-0.0099	0.95953	0.25670	40.214	6.031	0.13033	1692.6
15.1487	0.9595	-0.0050	0.95951	0.25923	40.276	6.038	0.13036	1693.3
15.0000	0.9595	0.0000	0.95950	0.26180	40.299	6.041	0.13037	1693.5

CONE SEMI-ANGLE=15.0
 FREE STREAM CONDITIONS
 MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 23052.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.4210 ENTRØPY=35.7941
 GAMMA (AVG.)=1.3014 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.4210	0.9592	-0.0467	0.96034	0.23796	46.206	6.054	0.12641	1937.3
16.2789	0.9593	-0.0420	0.96024	0.24037	46.632	6.097	0.12656	1941.4
16.1368	0.9594	-0.0373	0.96014	0.24275	47.010	6.135	0.12669	1945.1
15.9947	0.9595	-0.0327	0.96006	0.24511	47.343	6.168	0.12680	1948.2
15.8526	0.9596	-0.0280	0.95998	0.24746	47.632	6.197	0.12690	1951.0
15.7105	0.9596	-0.0234	0.95992	0.24981	47.878	6.222	0.12698	1953.3
15.5684	0.9597	-0.0188	0.95987	0.25216	48.082	6.242	0.12705	1955.2
15.4263	0.9597	-0.0141	0.95983	0.25453	48.243	6.258	0.12710	1956.7
15.2842	0.9598	-0.0094	0.95980	0.25692	48.360	6.270	0.12714	1957.8
15.1421	0.9598	-0.0047	0.95978	0.25934	48.432	6.277	0.12716	1958.5
15.0000	0.9599	-0.0000	0.95978	0.26180	48.458	6.280	0.12717	1958.8

CONE SEMI-ANGLE=15.0
 FREE STREAM CONDITIONS
 MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.3685 ENTRØPY=36.2185
 GAMMA (AVG.)=1.2978 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.3685	0.9595	-0.0450	0.96052	0.23881	54.815	6.261	0.12390	2222.3
16.2316	0.9596	-0.0405	0.96042	0.24113	55.301	6.304	0.12404	2226.8
16.0948	0.9597	-0.0360	0.96033	0.24343	55.734	6.342	0.12416	2230.8
15.9579	0.9597	-0.0315	0.96026	0.24570	56.115	6.375	0.12426	2234.3
15.8211	0.9598	-0.0270	0.96019	0.24797	56.446	6.404	0.12436	2237.3
15.6842	0.9599	-0.0226	0.96013	0.25024	56.728	6.429	0.12443	2239.8
15.5474	0.9599	-0.0181	0.96008	0.25251	56.960	6.449	0.12450	2242.0
15.4105	0.9599	-0.0136	0.96005	0.25480	57.144	6.465	0.12455	2243.6
15.2737	0.9600	-0.0091	0.96002	0.25710	57.278	6.477	0.12458	2244.8
15.1368	0.9600	-0.0046	0.96000	0.25943	57.360	6.484	0.12461	2245.6
15.0000	0.9600	0.0000	0.96000	0.26180	57.390	6.487	0.12462	2245.8

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.2413 ENTRØPY=36.7182
GAMMA (AVG.)=1.1290 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.2413	0.9601	-0.0411	0.96097	0.24073	64.163	6.813	0.11056	2363.1
16.1172	0.9602	-0.0369	0.96088	0.24288	64.688	6.861	0.11061	2365.0
15.9930	0.9602	-0.0328	0.96081	0.24500	65.153	6.904	0.11065	2366.8
15.8689	0.9603	-0.0287	0.96074	0.24710	65.562	6.943	0.11070	2368.2
15.7448	0.9604	-0.0246	0.96069	0.24919	65.917	6.976	0.11074	2369.3
15.6206	0.9604	-0.0205	0.96064	0.25127	66.217	7.004	0.11077	2370.5
15.4965	0.9605	-0.0164	0.96060	0.25334	66.465	7.027	0.11079	2371.4
15.3724	0.9605	-0.0124	0.96057	0.25543	66.660	7.045	0.11081	2372.0
15.2482	0.9605	-0.0083	0.96055	0.25753	66.802	7.058	0.11082	2372.3
15.1241	0.9605	-0.0041	0.96053	0.25965	66.889	7.066	0.11082	2372.6
15.0000	0.9605	0.0000	0.96053	0.26180	66.920	7.069	0.11083	2372.8

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=16.1260 ENTRØPY=37.1652
GAMMA (AVG.)=1.1181 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
16.1260	0.9607	-0.0373	0.96138	0.24263	74.298	7.443	0.10509	2468.2
16.0134	0.9607	-0.0335	0.96131	0.24458	74.847	7.492	0.10514	2469.9
15.9008	0.9608	-0.0298	0.96124	0.24651	75.334	7.535	0.10519	2471.5
15.7882	0.9608	-0.0261	0.96119	0.24842	75.762	7.573	0.10522	2472.6
15.6756	0.9609	-0.0224	0.96114	0.25032	76.133	7.605	0.10526	2474.2
15.5630	0.9609	-0.0187	0.96110	0.25221	76.448	7.633	0.10529	2475.0
15.4504	0.9610	-0.0150	0.96107	0.25410	76.708	7.656	0.10530	2475.6
15.3378	0.9610	-0.0112	0.96105	0.25600	76.912	7.674	0.10533	2476.3
15.2252	0.9610	-0.0075	0.96103	0.25791	77.060	7.687	0.10534	2476.8
15.1126	0.9610	-0.0038	0.96102	0.25984	77.151	7.695	0.10534	2477.0
15.0000	0.9610	-0.0000	0.96101	0.26179	77.184	7.698	0.10535	2477.2

CBNE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRPHY=31.8722

FLRW PROPERTIES

SHOCK ANGLE=16.0306 ENTRPHY=37.6139
GAMMA IAVG.=1.1137 STAG. ENTHALPHY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.8567	0.9619	-0.0285	0.96237	0.24714	115.685	9.591	0.09271	2826.1
15.7710	0.9620	-0.0256	0.96233	0.24663	116.326	9.637	0.09275	2827.8
15.6854	0.9620	-0.0228	0.96229	0.25010	116.876	9.679	0.09279	2829.0
15.5997	0.9621	-0.0199	0.96226	0.25196	117.196	9.719	0.09282	2830.2
15.5140	0.9621	-0.0171	0.96223	0.25301	117.834	9.746	0.09284	2831.4
15.4283	0.9621	-0.0143	0.96221	0.25446	118.203	9.774	0.09287	2832.1
15.3427	0.9621	-0.0114	0.96219	0.25592	118.508	9.796	0.09289	2832.7
15.2570	0.9621	-0.0086	0.96218	0.25737	118.746	9.813	0.09291	2833.5
15.1713	0.9621	-0.0057	0.96216	0.25884	118.919	9.826	0.09292	2833.8
15.0857	0.9622	-0.0029	0.96216	0.26031	119.025	9.834	0.09292	2834.0
15.0000	0.9622	-0.0000	0.96216	0.26180	119.044	9.837	0.09293	2833.9

CBNE SEMI-ANGLE=15.0

FREE STREAM CONDITIONS

MACH NB.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRPHY=31.8722

FLRW PROPERTIES

SHOCK ANGLE=15.8567 ENTRPHY=38.7477
GAMMA IAVG.=1.1290 STAG. ENTHALPHY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
15.8567	0.9619	-0.0285	0.96237	0.24714	115.685	9.591	0.09271	2826.1
15.7710	0.9620	-0.0256	0.96233	0.24663	116.326	9.637	0.09275	2827.8
15.6854	0.9620	-0.0228	0.96229	0.25010	116.876	9.679	0.09279	2829.0
15.5997	0.9621	-0.0199	0.96226	0.25196	117.196	9.719	0.09282	2830.2
15.5140	0.9621	-0.0171	0.96223	0.25301	117.834	9.746	0.09284	2831.4
15.4283	0.9621	-0.0143	0.96221	0.25446	118.203	9.774	0.09287	2832.1
15.3427	0.9621	-0.0114	0.96219	0.25592	118.508	9.796	0.09289	2832.7
15.2570	0.9621	-0.0086	0.96218	0.25737	118.746	9.813	0.09291	2833.5
15.1713	0.9621	-0.0057	0.96216	0.25884	118.919	9.826	0.09292	2833.8
15.0857	0.9622	-0.0029	0.96216	0.26031	119.025	9.834	0.09292	2834.0
15.0000	0.9622	-0.0000	0.96216	0.26180	119.044	9.837	0.09293	2833.9

CONE SEMI-ANGLE=15.0
FREE STREAM CONDITIONS

MACH NB.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTR08PY=31.8722

FLAM PROPERTIES

SHECK ANGLE=15.7592 ENTR08PY=39.9718
GAMMA (AVG.)=1.1749 STAG. ENTHALPY=8.8115E OR FT. SQ./SEC. SQ.

ETA	VA	VN	V	THETA	P	RHB	MU	T (K)
15.7592	0.9624	-0.0253	0.96274	0.24880	150.860	10.749	0.08922	3139.7
15.6833	0.9624	-0.0227	0.96271	0.25011	151.594	10.794	0.08933	3141.7
15.6074	0.9625	-0.0202	0.96268	0.25141	152.249	10.835	0.08936	3142.8
15.5314	0.9625	-0.0177	0.96266	0.25271	152.827	10.869	0.08940	3144.4
15.4555	0.9625	-0.0152	0.96264	0.25400	153.328	10.900	0.08943	3145.6
15.3796	0.9625	-0.0126	0.96262	0.25529	153.753	10.925	0.08945	3146.8
15.3037	0.9625	-0.0101	0.96260	0.25658	154.104	10.947	0.08947	3147.5
15.2278	0.9626	-0.0076	0.96259	0.25787	154.379	10.964	0.08948	3148.1
15.1518	0.9626	-0.0051	0.96258	0.25917	154.577	10.976	0.08950	3148.5
15.0759	0.9626	-0.0025	0.96258	0.26048	154.699	10.983	0.08950	3149.0
15.0000	0.9626	-0.0000	0.96257	0.26180	154.743	10.986	0.08951	3149.0

CONF SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 5239.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=22.4326

ENTROPY=32.1433

GAMMA (AVG.)=1.3945 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

CONF SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

ENTROPY=32.3379

SHOCK ANGLE=21.4861

GAMMA (AVG.)=1.3895 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ENTROPY	GAMMA	AVG.
21.4861	0.9305	-0.1236	0.93869	0.24273	5.476	2.959	0.24309	469.8	32.3379	1.3895	
21.0875	0.9313	-0.1113	0.93792	0.24902	5.583	3.000	0.24394	472.4	32.3379	1.3895	
20.4888	0.9320	-0.0990	0.93726	0.25526	5.676	3.036	0.24468	474.6	32.3379	1.3895	
20.2902	0.9327	-0.0868	0.93669	0.26133	5.759	3.068	0.24532	476.5	32.3379	1.3895	
19.8916	0.9332	-0.0746	0.93619	0.26736	5.830	3.095	0.24587	478.2	32.3379	1.3895	
19.4930	0.9337	-0.0625	0.93577	0.27340	5.892	3.118	0.24634	479.6	32.3379	1.3895	
19.0944	0.9341	-0.0503	0.93541	0.27951	5.943	3.138	0.24673	480.8	32.3379	1.3895	
18.6958	0.9344	-0.0379	0.93513	0.28572	5.984	3.154	0.24704	481.7	32.3379	1.3895	
18.2972	0.9346	-0.0255	0.93492	0.29208	6.015	3.165	0.24727	482.4	32.3379	1.3895	
17.8986	0.9347	-0.0129	0.93478	0.29863	6.034	3.173	0.24741	482.8	32.3379	1.3895	
17.5000	0.9347	0.0000	0.93473	0.30543	6.041	3.175	0.24747	483.0	32.3379	1.3895	

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 8382.9 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=20.4839 ENTR0PY=32.8230
 GAMMA (AVG.)=1.3729 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
20.4839	0.9368	-0.0943	0.94150	0.25716	9.015	3.710	0.20647	616.8
20.1855	0.9372	-0.0848	0.94105	0.26205	9.154	3.752	0.20698	619.4
19.8871	0.9376	-0.0754	0.94066	0.26683	9.277	3.788	0.20743	621.6
19.5889	0.9380	-0.0661	0.94032	0.27155	9.385	3.820	0.20782	623.6
19.2904	0.9383	-0.0568	0.94003	0.27624	9.479	3.848	0.20816	625.3
18.9920	0.9386	-0.0475	0.93978	0.28094	9.560	3.872	0.20844	626.7
18.6936	0.9388	-0.0381	0.93957	0.28567	9.626	3.892	0.20868	627.9
18.3952	0.9390	-0.0287	0.93940	0.29046	9.680	3.907	0.20886	628.8
18.0968	0.9391	-0.0193	0.93928	0.29533	9.719	3.919	0.20900	629.5
17.7984	0.9392	-0.0097	0.93921	0.30031	9.744	3.926	0.20908	630.0
17.5000	0.9392	0.0000	0.93918	0.30543	9.753	3.929	0.20912	630.1

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 10478.6 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=19.9752 ENTR0PY=33.5698
 GAMMA (AVG.)=1.3525 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.9752	0.9398	-0.0790	0.94314	0.26481	13.562	4.326	0.18562	795.7
19.7277	0.9402	-0.0710	0.94283	0.26892	13.740	4.366	0.18599	798.4
19.4802	0.9404	-0.0631	0.94256	0.27296	13.898	4.405	0.18631	800.8
19.2327	0.9407	-0.0553	0.94232	0.27695	14.037	4.438	0.18658	802.9
18.9851	0.9409	-0.0475	0.94211	0.28093	14.158	4.466	0.18682	804.7
18.7376	0.9411	-0.0397	0.94193	0.28490	14.261	4.490	0.18703	806.2
18.4901	0.9412	-0.0318	0.94178	0.28889	14.347	4.510	0.18719	807.5
18.2426	0.9414	-0.0240	0.94167	0.29292	14.415	4.526	0.18733	808.5
17.9950	0.9414	-0.0161	0.94158	0.29701	14.465	4.538	0.18742	809.2
17.7475	0.9415	-0.0081	0.94153	0.30117	14.496	4.545	0.18748	809.7
17.5000	0.9415	0.0000	0.94151	0.30543	14.507	4.547	0.18751	809.8

CBNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=19.6695 ENTROPY=31.9329
GAMMA (AVG.)=1.3343 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.6695	0.9416	-0.0696	0.94421	0.26953	19.118	4.837	0.17219	1003.4
19.4526	0.9419	-0.0626	0.94397	0.27316	19.342	4.879	0.17247	1006.3
19.2356	0.9421	-0.0556	0.94375	0.27673	19.540	4.916	0.17272	1008.9
19.0186	0.9423	-0.0487	0.94357	0.28027	19.715	4.949	0.17294	1011.1
18.8017	0.9425	-0.0418	0.94340	0.28380	19.867	4.978	0.17313	1013.1
18.5847	0.9426	-0.0349	0.94327	0.28732	19.996	5.002	0.17329	1014.7
18.3678	0.9427	-0.0280	0.94315	0.29085	20.104	5.022	0.17342	1016.1
18.1508	0.9428	-0.0211	0.94306	0.29442	20.189	5.038	0.17352	1017.2
17.9339	0.9429	-0.0141	0.94300	0.29803	20.251	5.050	0.17360	1018.0
17.7169	0.9429	-0.0071	0.94295	0.30169	20.289	5.057	0.17365	1018.4
17.5000	0.9429	0.0000	0.94294	0.30543	20.303	5.060	0.17366	1018.6

CBNE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=19.4662 ENTROPY=34.4908
GAMMA (AVG.)=1.3205 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.4662	0.9428	-0.0633	0.94496	0.27271	25.685	5.264	0.16290	1238.5
19.2696	0.9430	-0.0569	0.94476	0.27602	25.960	5.307	0.16314	1241.7
19.0730	0.9432	-0.0506	0.94458	0.27928	26.204	5.345	0.16334	1244.5
18.8764	0.9434	-0.0443	0.94442	0.28251	26.418	5.378	0.16353	1247.0
18.6797	0.9435	-0.0380	0.94429	0.28573	26.605	5.407	0.16369	1249.1
18.4831	0.9436	-0.0318	0.94417	0.28894	26.764	5.431	0.16382	1250.9
18.2865	0.9437	-0.0255	0.94408	0.29217	26.896	5.451	0.16393	1252.4
18.0899	0.9438	-0.0192	0.94400	0.29542	27.000	5.467	0.16402	1253.6
17.8932	0.9439	-0.0128	0.94395	0.29871	27.076	5.479	0.16408	1254.5
17.6966	0.9439	-0.0064	0.94391	0.30204	27.123	5.486	0.16412	1255.0
17.5000	0.9439	0.0000	0.94390	0.30543	27.140	5.489	0.16413	1255.2

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRØPY=31.8772

FLOW PROPERTIES

SHØCK ANGLE=19.3225 ENTRØPY=35.0338
GAMMA (AVG.)=1.3107 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.3225	0.9437	-0.0588	0.94550	0.27498	33.263	5.625	0.15618	1501.1
19.1403	0.9438	-0.0529	0.94533	0.27806	33.594	5.668	0.15639	1504.7
18.9580	0.9440	-0.0470	0.94517	0.28110	33.889	5.705	0.15658	1507.8
18.7757	0.9441	-0.0412	0.94504	0.28411	34.148	5.739	0.15674	1510.5
18.5935	0.9443	-0.0353	0.94492	0.28711	34.374	5.768	0.15687	1512.9
18.4112	0.9444	-0.0295	0.94482	0.29010	34.566	5.792	0.15699	1514.8
18.2290	0.9444	-0.0237	0.94474	0.29311	34.724	5.812	0.15709	1516.5
18.0467	0.9445	-0.0178	0.94467	0.29613	34.850	5.828	0.15716	1517.8
17.8645	0.9446	-0.0119	0.94463	0.29919	34.941	5.840	0.15722	1518.7
17.6822	0.9446	-0.0060	0.94460	0.30228	34.998	5.847	0.15725	1519.3
17.5000	0.9446	-0.0000	0.94459	0.30543	35.018	5.850	0.15727	1519.5

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=19.2167 ENTRØPY=35.5572
GAMMA (AVG.)=1.3038 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
19.2167	0.9443	-0.0555	0.94591	0.27667	41.853	5.929	0.15117	1791.8
19.0451	0.9444	-0.0499	0.94575	0.27958	42.246	5.972	0.15136	1795.7
18.8734	0.9446	-0.0444	0.94562	0.28245	42.597	6.010	0.15153	1799.2
18.7017	0.9447	-0.0389	0.94550	0.28530	42.905	6.043	0.15167	1802.2
18.5300	0.9448	-0.0333	0.94539	0.28813	43.173	6.072	0.15180	1804.9
18.3584	0.9449	-0.0278	0.94530	0.29096	43.401	6.097	0.15190	1807.1
18.1867	0.9450	-0.0223	0.94523	0.29380	43.590	6.117	0.15199	1808.9
18.0150	0.9450	-0.0168	0.94517	0.29666	43.739	6.133	0.15206	1810.3
17.8433	0.9451	-0.0112	0.94513	0.29955	43.847	6.145	0.15211	1811.4
17.6717	0.9451	-0.0056	0.94510	0.30247	43.914	6.152	0.15214	1812.0
17.5000	0.9451	0.0000	0.94509	0.30543	43.939	6.154	0.15215	1812.3

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=19.1366 ENTROPY=36.0590
GAMMA (AVG.)=1.2990 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
19.1366	0.9447	-0.0530	0.94622	0.27796	51.453	6.186	0.14734	2111.3
18.9729	0.9449	-0.0477	0.94608	0.28074	51.915	6.229	0.14751	2115.7
18.8093	0.9450	-0.0424	0.94596	0.28348	52.326	6.267	0.14766	2119.5
18.6456	0.9451	-0.0371	0.94585	0.28620	52.689	6.300	0.14780	2122.9
18.4819	0.9452	-0.0318	0.94575	0.28891	53.004	6.329	0.14791	2125.8
18.3183	0.9453	-0.0266	0.94567	0.29161	53.272	6.354	0.14801	2128.3
18.1546	0.9454	-0.0213	0.94560	0.29433	53.493	6.374	0.14809	2130.3
17.9910	0.9454	-0.0160	0.94555	0.29706	53.668	6.390	0.14815	2131.9
17.8273	0.9455	-0.0107	0.94551	0.29981	53.795	6.402	0.14820	2133.1
17.6637	0.9455	-0.0054	0.94549	0.30260	53.874	6.409	0.14823	2133.8
17.5000	0.9455	0.0000	0.94548	0.30543	53.902	6.412	0.14824	2134.1

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=18.9947 ENTROPY=36.6198
GAMMA (AVG.)=1.1339 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.9947	0.9455	-0.0487	0.94680	0.28008	62.048	6.686	0.13205	2336.2
18.8452	0.9457	-0.0438	0.94668	0.28267	62.566	6.735	0.13212	2338.4
18.6957	0.9458	-0.0389	0.94657	0.28522	63.026	6.778	0.13218	2340.0
18.5463	0.9459	-0.0340	0.94648	0.28775	63.430	6.816	0.13223	2341.7
18.3968	0.9459	-0.0292	0.94640	0.29025	63.779	6.849	0.13228	2343.1
18.2473	0.9460	-0.0243	0.94633	0.29275	64.076	6.876	0.13231	2344.3
18.0979	0.9461	-0.0195	0.94627	0.29525	64.321	6.899	0.13235	2345.2
17.9484	0.9461	-0.0147	0.94623	0.29776	64.514	6.917	0.13237	2345.9
17.7989	0.9461	-0.0098	0.94620	0.30029	64.654	6.930	0.13239	2346.5
17.6495	0.9462	-0.0049	0.94618	0.30284	64.740	6.938	0.13240	2346.8
17.5000	0.9462	-0.0000	0.94617	0.30543	64.771	6.941	0.13240	2346.9

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=18.8351 ENTRPHY=37.1398
GAMMA (AVG.)=1.1186 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.8351	0.9465	-0.0436	0.94745	0.28272	73.704	7.408	0.12432	2462.1
18.7016	0.9465	-0.0392	0.94736	0.28503	74.252	7.456	0.12438	2463.9
18.5681	0.9466	-0.0348	0.94727	0.28732	74.798	7.499	0.12444	2465.5
18.4346	0.9467	-0.0305	0.94720	0.28958	75.165	7.538	0.12448	2466.6
18.3011	0.9468	-0.0261	0.94713	0.29183	75.535	7.570	0.12453	2467.8
18.1676	0.9468	-0.0210	0.94708	0.29408	75.849	7.598	0.12456	2468.7
18.0340	0.9469	-0.0175	0.94703	0.29632	76.108	7.621	0.12459	2469.6
17.9005	0.9469	-0.0131	0.94700	0.29857	76.311	7.639	0.12461	2470.1
17.7670	0.9469	-0.0088	0.94697	0.30084	76.459	7.652	0.12463	2470.5
17.6335	0.9469	-0.0044	0.94695	0.30312	76.550	7.661	0.12464	2470.7
17.5000	0.9469	0.0000	0.94695	0.30543	76.582	7.663	0.12464	2470.9

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=18.7045 ENTRPHY=37.6611
GAMMA (AVG.)=1.1136 STAG. ENTHALPY=3.7387E 08 FT. SQ./S. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.7045	0.9472	-0.0394	0.94800	0.28489	86.373	8.141	0.11813	2582.5
18.5841	0.9473	-0.0354	0.94792	0.28698	86.949	8.189	0.11818	2584.2
18.4636	0.9473	-0.0315	0.94785	0.28905	87.461	8.233	0.11823	2585.4
18.3432	0.9474	-0.0275	0.94779	0.29109	87.911	8.270	0.11828	2586.6
18.2227	0.9474	-0.0236	0.94774	0.29313	88.301	8.303	0.11832	2587.6
18.1023	0.9475	-0.0197	0.94769	0.29516	88.632	8.330	0.11835	2588.6
17.9818	0.9475	-0.0155	0.94766	0.29719	88.905	8.352	0.11837	2589.5
17.8614	0.9476	-0.0119	0.94763	0.29923	89.119	8.370	0.11839	2590.1
17.7409	0.9476	-0.0079	0.94761	0.30128	89.274	8.384	0.11841	2590.2
17.6204	0.9476	-0.0040	0.94759	0.30335	89.369	8.391	0.11842	2590.6
17.5000	0.9476	0.0000	0.94759	0.30543	89.404	8.394	0.11842	2590.8

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R

VELOCITY= 29340.0 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SNECK ANGLE=18.5990 ENTRALPY=38.1856

GAMMA (AVG.)=1.1169 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.5990	0.9478	-0.0360	0.94846	0.28666	100.054	8.862	0.11324	2699.7
19.4091	0.9478	-0.0324	0.94839	0.28456	100.660	8.909	0.11329	2701.4
18.3792	0.9479	-0.0288	0.94833	0.29045	101.199	8.952	0.11334	2702.4
18.2693	0.9477	-0.0252	0.94824	0.29232	101.673	8.989	0.11339	2703.7
18.1594	0.9480	-0.0216	0.94824	0.29418	102.034	9.021	0.11342	2704.8
18.0495	0.9480	-0.0180	0.94820	0.29604	102.433	9.048	0.11345	2705.7
17.9396	0.9481	-0.0144	0.94817	0.29790	102.720	9.070	0.11347	2706.4
17.8297	0.9481	-0.0108	0.94814	0.29976	102.946	9.088	0.11349	2707.0
17.7198	0.9481	-0.0072	0.94813	0.30164	103.109	9.101	0.11351	2707.2
17.6099	0.9481	-0.0036	0.94811	0.30353	103.209	9.109	0.11352	2707.5
17.5000	0.9481	-0.0000	0.94811	0.30543	103.245	9.111	0.11352	2707.7

CONE SEMI-ANGLE=17.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 31435.8 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SNECK ANGLE=18.5144 ENTRALPY=38.7149

GAMMA (AVG.)=1.1201 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. 60.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.5144	0.9482	-0.0333	0.94803	0.28809	114.746	9.550	0.10952	2818.9
18.4130	0.9483	-0.0299	0.94877	0.28984	115.305	9.597	0.10956	2820.2
18.3115	0.9483	-0.0266	0.94872	0.29158	115.953	9.638	0.10961	2821.6
18.2101	0.9484	-0.0233	0.94868	0.29331	116.493	9.674	0.10965	2822.8
18.1086	0.9484	-0.0199	0.94864	0.29503	116.888	9.705	0.10968	2824.0
18.0072	0.9485	-0.0166	0.94861	0.29675	117.256	9.733	0.10971	2824.7
17.9058	0.9485	-0.0133	0.94858	0.29847	117.559	9.755	0.10973	2825.4
17.8043	0.9485	-0.0100	0.94856	0.30019	117.797	9.773	0.10975	2825.9
17.7029	0.9485	-0.0067	0.94854	0.30193	117.970	9.785	0.10976	2826.3
17.6014	0.9485	-0.0034	0.94853	0.30367	118.075	9.793	0.10977	2826.5
17.5000	0.9485	-0.0000	0.94853	0.30543	118.113	9.795	0.10978	2826.8

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=18.3716 ENTROPY=40.0050
GAMMA (AVG.)=1.1774 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.3716	0.9490	-0.0286	0.94946	0.29051	155.900	11.017	0.10398	3159.4
18.2844	0.9491	-0.0257	0.94942	0.29201	156.638	11.062	0.10403	3161.0
18.1973	0.9491	-0.0229	0.94938	0.29351	157.297	11.102	0.10408	3162.7
18.1101	0.9491	-0.0200	0.94935	0.29499	157.878	11.137	0.10411	3166.1
18.0229	0.9492	-0.0172	0.94932	0.29647	158.382	11.166	0.10414	3165.5
17.9358	0.9492	-0.0143	0.94930	0.29795	158.810	11.193	0.10417	3166.3
17.8486	0.9492	-0.0115	0.94928	0.29944	159.163	11.214	0.10420	3167.1
17.7615	0.9492	-0.0086	0.94927	0.30092	159.439	11.230	0.10421	3168.0
17.6743	0.9492	-0.0058	0.94925	0.30242	159.639	11.242	0.10423	3168.4
17.5872	0.9492	-0.0029	0.94925	0.30392	159.762	11.250	0.10423	3168.6
17.5000	0.9492	-0.0000	0.94924	0.30543	159.806	11.252	0.10423	3168.8

CONE SEMI-ANGLE=17.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=18.3822 ENTROPY=41.7204
GAMMA (AVG.)=1.2313 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
18.3822	0.9490	-0.0289	0.94941	0.29035	203.325	10.899	0.10687	3914.9
18.2940	0.9490	-0.0260	0.94937	0.29187	204.298	10.940	0.10693	3918.5
18.2057	0.9491	-0.0231	0.94933	0.29337	205.167	10.977	0.10698	3921.8
18.1175	0.9491	-0.0203	0.94930	0.29487	205.933	11.009	0.10702	3924.5
18.0293	0.9491	-0.0174	0.94927	0.29637	206.598	11.036	0.10707	3927.1
17.9411	0.9491	-0.0145	0.94925	0.29787	207.163	11.060	0.10710	3929.1
17.8529	0.9492	-0.0116	0.94923	0.29937	207.629	11.079	0.10712	3931.0
17.7646	0.9492	-0.0087	0.94921	0.30087	207.994	11.095	0.10714	3932.2
17.6764	0.9492	-0.0058	0.94920	0.30238	208.258	11.106	0.10716	3933.1
17.5882	0.9492	-0.0029	0.94919	0.30390	208.420	11.112	0.10717	3934.0
17.5000	0.9492	-0.0000	0.94919	0.30543	208.478	11.115	0.10717	3934.0

CRNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 5259.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=24.9278 ENTRPHY=32.2736
GAMMA (AVG.)=1.3912 STAG. ENTHALPY=1.0409E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	MM	MU	T (K)
24.9278	0.9068	-0.1469	0.91896	0.27230	5.021	2.830	0.29321	450.3
24.4350	0.9080	-0.1339	0.91783	0.28006	5.123	2.872	0.29441	452.9
23.9427	0.9091	-0.1191	0.91686	0.28758	5.213	2.908	0.29545	455.1
23.4495	0.9100	-0.1045	0.91601	0.29498	5.291	2.939	0.29635	457.0
22.9567	0.9109	-0.0899	0.91528	0.30234	5.360	2.966	0.29713	458.7
22.4639	0.9116	-0.0752	0.91466	0.30972	5.419	2.990	0.29779	460.1
21.9711	0.9121	-0.0605	0.91413	0.31719	5.468	3.009	0.29835	461.2
21.4783	0.9126	-0.0457	0.91372	0.32480	5.508	3.025	0.29879	462.2
20.9855	0.9129	-0.0307	0.91341	0.33261	5.537	3.037	0.29911	462.9
20.4928	0.9131	-0.0155	0.91321	0.34067	5.556	3.044	0.29932	463.3
20.0000	0.9131	0.0000	0.91313	0.34907	5.563	3.047	0.29940	463.5

CRNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=24.0405 ENTRPHY=32.5209
GAMMA (AVG.)=1.3835 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	MM	MU	T (K)
24.0405	0.9132	-0.1239	0.92161	0.28472	6.620	3.288	0.26199	526.6
23.5365	0.9141	-0.1114	0.92082	0.29172	6.939	3.329	0.26284	529.1
23.0324	0.9148	-0.0991	0.92014	0.29757	7.044	3.365	0.26357	531.3
22.5284	0.9154	-0.0869	0.91955	0.30382	7.136	3.397	0.26421	533.3
22.0243	0.9160	-0.0747	0.91904	0.31004	7.217	3.425	0.26476	534.9
21.5203	0.9165	-0.0625	0.91860	0.31628	7.286	3.448	0.26523	536.3
21.0162	0.9169	-0.0502	0.91824	0.32256	7.343	3.468	0.26562	537.5
20.5122	0.9172	-0.0379	0.91795	0.32895	7.389	3.483	0.26593	538.4
20.0081	0.9174	-0.0254	0.91773	0.33546	7.423	3.495	0.26616	539.1
20.0000	0.9175	-0.0128	0.91759	0.34216	7.444	3.502	0.26630	539.5
20.0000	0.9175	0.0000	0.91754	0.34907	7.452	3.505	0.26635	539.7

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.0970 ENTROPY=33.1204
GAMMA (AVG.)=1.3617 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.0970	0.9198	-0.0965	0.92488	0.29858	11.396	4.065	0.22515	711.7
22.7873	0.9203	-0.0868	0.92440	0.30368	11.556	4.106	0.22567	714.4
22.4776	0.9208	-0.0772	0.92399	0.30869	11.698	4.143	0.22612	716.7
22.1679	0.9211	-0.0676	0.92362	0.31364	11.822	4.176	0.22651	718.7
21.8582	0.9215	-0.0581	0.92331	0.31856	11.931	4.204	0.22685	720.4
21.5485	0.9218	-0.0485	0.92304	0.32349	12.023	4.228	0.22714	721.9
21.2388	0.9220	-0.0390	0.92282	0.32845	12.100	4.248	0.22738	723.1
20.9291	0.9222	-0.0294	0.92264	0.33346	12.161	4.263	0.22757	724.1
20.6194	0.9223	-0.0197	0.92251	0.33855	12.206	4.275	0.22771	724.8
20.3097	0.9224	-0.0099	0.92243	0.34374	12.234	4.282	0.22779	725.3
20.0000	0.9224	0.0000	0.92240	0.34907	12.244	4.285	0.22783	725.4

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=22.6100 ENTROPY=33.7573
GAMMA (AVG.)=1.3395 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.6100	0.9231	-0.0820	0.92677	0.30600	17.278	4.687	0.20410	935.7
22.3490	0.9235	-0.0738	0.92643	0.31035	17.487	4.730	0.20447	938.6
22.0880	0.9238	-0.0656	0.92612	0.31464	17.672	4.767	0.20480	941.1
21.8270	0.9241	-0.0574	0.92586	0.31888	17.836	4.800	0.20509	943.3
21.5660	0.9243	-0.0493	0.92563	0.32310	17.977	4.828	0.20534	945.2
21.3050	0.9245	-0.0412	0.92544	0.32732	18.098	4.852	0.20555	946.8
21.0440	0.9247	-0.0331	0.92527	0.33156	18.199	4.873	0.20572	948.1
20.7830	0.9248	-0.0249	0.92515	0.33583	18.278	4.888	0.20586	949.1
20.5220	0.9249	-0.0167	0.92505	0.34016	18.336	4.900	0.20596	949.9
20.2610	0.9250	-0.0084	0.92499	0.34457	18.372	4.907	0.20602	950.4
20.0000	0.9250	0.0000	0.92497	0.34907	18.386	4.910	0.20604	950.6

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=22.1167 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.
GAMMA (AVG.)=1.3110 ENTROPY=35.0141

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.1167	0.9264	-0.0671	0.92884	0.31373	32.966	5.613	0.18136	1490.9
21.9050	0.9266	-0.0603	0.92861	0.31730	33.295	5.655	0.18161	1494.4
21.6934	0.9269	-0.0536	0.92841	0.32082	33.587	5.693	0.18184	1497.6
21.4817	0.9270	-0.0470	0.92823	0.32431	33.845	5.726	0.18203	1500.3
21.2700	0.9272	-0.0403	0.92807	0.32779	34.068	5.755	0.18220	1502.6
21.0584	0.9273	-0.0336	0.92794	0.33127	34.259	5.780	0.18235	1504.6
20.8467	0.9274	-0.0270	0.92783	0.33476	34.417	5.800	0.18246	1506.2
20.6350	0.9275	-0.0203	0.92775	0.33827	34.541	5.816	0.18256	1507.5
20.4233	0.9276	-0.0136	0.92769	0.34181	34.632	5.828	0.18262	1508.5
20.2117	0.9276	-0.0068	0.92765	0.34541	34.688	5.835	0.18267	1509.1
20.0000	0.9276	-0.0000	0.92763	0.34907	34.709	5.838	0.18268	1509.3

CONE SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=22.3139 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.
GAMMA (AVG.)=1.3226 ENTROPY=34.3945

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
22.3139	0.9251	-0.0731	0.92799	0.31061	24.468	5.195	0.19060	1195.6
22.0825	0.9254	-0.0657	0.92772	0.31450	24.733	5.238	0.19090	1198.7
21.8511	0.9256	-0.0584	0.92748	0.31833	24.969	5.275	0.19116	1201.5
21.6197	0.9259	-0.0512	0.92727	0.32212	25.176	5.308	0.19139	1203.9
21.3883	0.9260	-0.0439	0.92709	0.32590	25.357	5.337	0.19159	1206.0
21.1570	0.9262	-0.0367	0.92693	0.32968	25.510	5.362	0.19176	1207.8
20.9256	0.9263	-0.0294	0.92680	0.33347	25.637	5.382	0.19190	1209.3
20.6942	0.9264	-0.0221	0.92670	0.33729	25.738	5.398	0.19201	1210.4
20.4628	0.9265	-0.0148	0.92663	0.34115	25.812	5.409	0.19209	1211.3
20.2314	0.9265	-0.0074	0.92658	0.34507	25.857	5.417	0.19214	1211.8
20.0000	0.9266	0.0000	0.92656	0.34907	25.874	5.419	0.19216	1212.0

CBME SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.9779 ENTROPY=35.6086
GAMMA (AVG.)=1.3033 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.9779	0.9273	-0.0628	0.92945	0.31594	42.771	5.957	0.17475	1822.6
21.7801	0.9275	-0.0565	0.92925	0.31928	43.172	6.000	0.17497	1826.6
21.5823	0.9277	-0.0502	0.92907	0.32259	43.528	6.038	0.17517	1830.1
21.3845	0.9279	-0.0440	0.92891	0.32587	43.841	6.071	0.17535	1833.1
21.1867	0.9280	-0.0377	0.92878	0.32913	44.114	6.100	0.17550	1835.8
20.9890	0.9281	-0.0315	0.92866	0.33239	44.346	6.124	0.17562	1838.0
20.7912	0.9282	-0.0253	0.92857	0.33567	44.538	6.145	0.17573	1839.9
20.5934	0.9283	-0.0190	0.92849	0.33896	44.689	6.161	0.17581	1841.3
20.3956	0.9284	-0.0127	0.92844	0.34228	44.799	6.172	0.17587	1842.4
20.1978	0.9284	-0.0064	0.92840	0.34565	44.868	6.180	0.17591	1843.0
20.0000	0.9284	-0.0000	0.92839	0.34907	44.892	6.182	0.17592	1843.3

CBME SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.8764 ENTROPY=36.1751
GAMMA (AVG.)=1.2981 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.8764	0.9280	-0.0597	0.92991	0.31757	53.805	6.241	0.16986	2191.7
21.6888	0.9282	-0.0537	0.92972	0.32075	54.365	6.284	0.17007	2196.1
21.5011	0.9283	-0.0477	0.92956	0.32389	54.791	6.322	0.17029	2200.1
21.3135	0.9285	-0.0418	0.92942	0.32701	55.167	6.355	0.17041	2203.5
21.1258	0.9286	-0.0359	0.92930	0.33012	55.494	6.384	0.17055	2206.5
20.9382	0.9287	-0.0299	0.92919	0.33322	55.772	6.409	0.17066	2209.0
20.7506	0.9288	-0.0240	0.92911	0.33633	56.002	6.429	0.17076	2211.1
20.5629	0.9289	-0.0180	0.92904	0.33947	56.183	6.445	0.17083	2212.8
20.3753	0.9289	-0.0121	0.92899	0.34262	56.315	6.457	0.17089	2214.0
20.1876	0.9289	-0.0061	0.92896	0.34582	56.396	6.464	0.17092	2214.7
20.0000	0.9289	0.0000	0.92895	0.34907	56.426	6.467	0.17093	2215.0

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.6587 ENTRPHY=36.8153

GAMMA (AVG.)=1.1257 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.6587	0.9294	-0.0531	0.93091	0.32091	66.301	6.947	0.14937	2386.7
21.4929	0.9295	-0.0478	0.93077	0.32379	66.831	6.995	0.14946	2388.6
21.3270	0.9297	-0.0424	0.93064	0.32662	67.302	7.039	0.14952	2390.1
21.1611	0.9298	-0.0371	0.93052	0.32942	67.715	7.077	0.14959	2391.4
20.9952	0.9299	-0.0318	0.93043	0.33221	68.073	7.111	0.14965	2392.4
20.8294	0.9300	-0.0266	0.93034	0.33499	68.377	7.138	0.14969	2393.7
20.6635	0.9300	-0.0213	0.93028	0.33777	68.627	7.161	0.14973	2394.4
20.4976	0.9301	-0.0160	0.93022	0.34055	68.824	7.180	0.14976	2394.9
20.3317	0.9301	-0.0107	0.93018	0.34336	68.967	7.193	0.14979	2395.5
20.1659	0.9301	-0.0054	0.93016	0.34620	69.055	7.201	0.14980	2395.9
20.0000	0.9301	0.0000	0.93015	0.34907	69.087	7.204	0.14980	2395.8

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.4634 ENTRPHY=37.4064

GAMMA (AVG.)=1.1149 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.4634	0.9306	-0.0470	0.93184	0.32414	80.068	7.785	0.14007	2524.2
21.3171	0.9308	-0.0423	0.93172	0.32668	80.630	7.833	0.14015	2525.9
21.1707	0.9309	-0.0375	0.93162	0.32918	81.129	7.875	0.14021	2527.5
21.0244	0.9310	-0.0329	0.93153	0.33167	81.567	7.913	0.14026	2528.8
20.8780	0.9310	-0.0282	0.93145	0.33414	81.948	7.945	0.14032	2530.0
20.7317	0.9311	-0.0235	0.93139	0.33660	82.270	7.974	0.14035	2530.7
20.5854	0.9311	-0.0188	0.93134	0.33906	82.536	7.996	0.14039	2531.4
20.4390	0.9312	-0.0141	0.93129	0.34154	82.745	8.014	0.14042	2532.2
20.2927	0.9312	-0.0095	0.93126	0.34402	82.896	8.027	0.14044	2532.6
20.1463	0.9312	-0.0047	0.93124	0.34653	82.989	8.035	0.14044	2532.9
20.0000	0.9312	-0.0000	0.93124	0.34906	83.023	8.038	0.14045	2533.0

CBMF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH N0.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 25146.6 FT./SEC. ENTR0PY=31.0722

FLBN PROPERTIES

SHOCK ANGLE=21.3112 ENTR0PY=38.0013
 GAMMA (AVG.)=1.1150 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
21.3112	0.9316	-0.0422	0.93257	0.32669	95.145	8.613	0.13291	2658.8
21.1800	0.9317	-0.0379	0.93248	0.32896	95.740	8.661	0.13297	2660.1
21.0489	0.9318	-0.0337	0.93240	0.33121	96.269	8.702	0.13303	2661.8
20.9178	0.9319	-0.0295	0.93233	0.33346	96.735	8.739	0.13308	2662.9
20.7867	0.9319	-0.0253	0.93227	0.33566	97.138	8.772	0.13313	2663.9
20.6556	0.9320	-0.0211	0.93221	0.33787	97.480	8.799	0.13316	2664.8
20.5245	0.9320	-0.0169	0.93217	0.34009	97.762	8.821	0.13319	2665.7
20.3933	0.9321	-0.0127	0.93214	0.34231	97.984	8.839	0.13322	2666.1
20.2622	0.9321	-0.0085	0.93211	0.34454	98.144	8.852	0.13324	2666.5
20.1311	0.9321	-0.0043	0.93210	0.34679	98.243	8.860	0.13324	2666.6
20.0000	0.9321	0.0000	0.93209	0.34907	98.278	8.863	0.13324	2666.7

CBMF SEMI-ANGLE=20.0

FREE STREAM CONDITIONS

MACH N0.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 27244.3 FT./SEC. ENTR0PY=31.0722

FLBN PROPERTIES

SHOCK ANGLE=21.1924 ENTR0PY=38.6017
 GAMMA (AVG.)=1.1250 STAG. ENTHALPY=3.7307E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
21.1924	0.9324	-0.0384	0.93316	0.32869	111.531	9.407	0.12754	2792.9
21.0731	0.9324	-0.0346	0.93309	0.33075	112.162	9.454	0.12761	2794.4
20.9539	0.9325	-0.0307	0.93302	0.33279	112.724	9.496	0.12766	2795.8
20.8347	0.9326	-0.0269	0.93296	0.33482	113.218	9.532	0.12771	2796.9
20.7154	0.9326	-0.0230	0.93291	0.33685	113.647	9.564	0.12775	2798.0
20.5962	0.9327	-0.0192	0.93286	0.33887	114.011	9.591	0.12779	2798.8
20.4769	0.9327	-0.0154	0.93283	0.34089	114.311	9.613	0.12782	2799.6
20.3577	0.9327	-0.0116	0.93280	0.34291	114.546	9.630	0.12784	2800.2
20.2385	0.9327	-0.0077	0.93278	0.34495	114.717	9.644	0.12785	2800.3
20.1192	0.9328	-0.0039	0.93277	0.34700	114.821	9.651	0.12786	2800.6
20.0000	0.9328	0.0000	0.93276	0.34907	114.859	9.653	0.12787	2800.9

CRNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CC. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 293.20 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.1012 ENTROPY=39.2097
GAMMA (AVG.)=1.1439 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0424	0.9333	-0.0336	0.93392	0.33123	148.223	10.134	0.12377	2936.3
20.9382	0.9334	-0.0303	0.93386	0.33303	148.950	10.179	0.12383	2938.2
20.8339	0.9334	-0.0269	0.93381	0.33481	149.598	10.221	0.12388	2939.2
20.7297	0.9335	-0.0235	0.93376	0.33659	150.170	10.256	0.12393	2940.6
20.6254	0.9335	-0.0202	0.93373	0.33836	150.667	10.288	0.12397	2941.6
20.5212	0.9335	-0.0168	0.93369	0.34013	151.088	10.314	0.12401	2942.6
20.4169	0.9336	-0.0135	0.93366	0.34190	151.435	10.337	0.12403	2943.0
20.3127	0.9336	-0.0101	0.93364	0.34368	151.707	10.352	0.12405	2944.1
20.2085	0.9336	-0.0068	0.93363	0.34546	151.904	10.365	0.12407	2944.2
20.1042	0.9336	-0.0034	0.93362	0.34725	152.025	10.373	0.12408	2944.6
20.0000	0.9336	-0.0000	0.93361	0.34906	152.068	10.375	0.12409	2944.6

CRNE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CC. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 314.35.8 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.0424 ENTROPY=39.8952
GAMMA (AVG.)=1.1715 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
21.0424	0.9333	-0.0336	0.93392	0.33123	148.223	10.673	0.12195	3116.3
20.9382	0.9334	-0.0303	0.93386	0.33303	148.950	10.719	0.12221	3117.9
20.8339	0.9334	-0.0269	0.93381	0.33481	149.598	10.757	0.12227	3119.7
20.7297	0.9335	-0.0235	0.93376	0.33659	150.170	10.793	0.12232	3121.0
20.6254	0.9335	-0.0202	0.93373	0.33836	150.667	10.824	0.12236	3122.1
20.5212	0.9335	-0.0168	0.93369	0.34013	151.088	10.850	0.12240	3123.1
20.4169	0.9336	-0.0135	0.93366	0.34190	151.435	10.871	0.12242	3124.1
20.3127	0.9336	-0.0101	0.93364	0.34368	151.707	10.888	0.12245	3124.5
20.2085	0.9336	-0.0068	0.93363	0.34546	151.904	10.900	0.12246	3124.9
20.1042	0.9336	-0.0034	0.93362	0.34725	152.025	10.907	0.12247	3125.3
20.0000	0.9336	-0.0000	0.93361	0.34906	152.068	10.910	0.12247	3125.5

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=21.0151 ENTRØP.=41.6502
GAMMA (AVG.)=1.2319 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

21.0151	0.9335	-0.0328	0.93406	0.33171	201.413	10.950	0.12338	3868.1
20.9136	0.9335	-0.0295	0.93400	0.33346	202.372	10.990	0.12345	3872.1
20.8121	0.9336	-0.0262	0.93396	0.33519	203.228	11.026	0.12351	3875.2
20.7106	0.9336	-0.0229	0.93391	0.33692	203.983	11.059	0.12357	3877.8
20.6091	0.9337	-0.0197	0.93388	0.33864	204.639	11.086	0.12361	3880.3
20.5076	0.9337	-0.0164	0.93384	0.34036	205.196	11.110	0.12365	3882.4
20.4060	0.9337	-0.0131	0.93382	0.34209	205.655	11.130	0.12369	3883.9
20.3045	0.9337	-0.0099	0.93380	0.34382	206.014	11.144	0.12371	3885.6
20.2030	0.9338	-0.0066	0.93378	0.34555	206.275	11.155	0.12373	3886.5
20.1015	0.9338	-0.0033	0.93377	0.34730	206.434	11.162	0.12374	3887.0
20.0000	0.9338	-0.0000	0.93377	0.34907	206.491	11.165	0.12375	3887.1

CONE SEMI-ANGLE=20.0
FREE STREAM CONDITIONS

MACH NØ.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=20.9532 ENTRØPY=43.1596
GAMMA (AVG.)=1.1724 STAG. ENTHALPY=6.8115E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

20.9532	0.9339	-0.0308	0.93438	0.33273	262.780	11.609	0.11677	4635.4
20.8579	0.9339	-0.0277	0.93433	0.33437	263.958	11.654	0.11680	4637.7
20.7626	0.9340	-0.0246	0.93429	0.33601	265.010	11.695	0.11683	4639.5
20.6672	0.9340	-0.0216	0.93425	0.33764	265.938	11.730	0.11686	4641.3
20.5719	0.9340	-0.0185	0.93422	0.33926	266.743	11.761	0.11689	4642.8
20.4766	0.9341	-0.0154	0.93419	0.34088	267.426	11.788	0.11690	4644.0
20.3813	0.9341	-0.0123	0.93417	0.34251	267.989	11.809	0.11692	4645.0
20.2860	0.9341	-0.0093	0.93415	0.34413	268.430	11.826	0.11693	4645.8
20.1906	0.9341	-0.0062	0.93413	0.34577	268.749	11.838	0.11694	4646.4
20.0953	0.9341	-0.0031	0.93413	0.34741	268.944	11.846	0.11695	4646.8
20.0000	0.9341	0.0000	0.93412	0.34907	269.014	11.849	0.11695	4646.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.9988 ENTRØPY=31.9797
GAMMA (AVG.)=1.3977 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.9988	0.8480	-0.2630	0.88781	0.25778	2.782	2.015	0.45657	350.5
31.0490	0.8521	-0.2365	0.88427	0.27121	2.862	2.056	0.46050	353.3
30.0991	0.8557	-0.2106	0.88127	0.28399	2.931	2.091	0.46383	355.7
29.1492	0.8590	-0.1851	0.87869	0.29649	2.990	2.122	0.46672	357.8
28.1993	0.8618	-0.1597	0.87646	0.30895	3.042	2.148	0.46922	359.5
27.2494	0.8642	-0.1342	0.87453	0.32156	3.088	2.171	0.47137	361.0
26.2995	0.8661	-0.1084	0.87291	0.33449	3.126	2.190	0.47319	362.3
25.3496	0.8677	-0.0823	0.87158	0.34789	3.157	2.206	0.47468	363.4
24.3997	0.8688	-0.0556	0.87056	0.36193	3.181	2.218	0.47582	364.1
23.4499	0.8694	-0.0283	0.86990	0.37679	3.197	2.226	0.47655	364.6
22.5000	0.8696	-0.0000	0.86963	0.39270	3.203	2.229	0.47683	364.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=28.9732 ENTRØPY=32.1615
GAMMA (AVG.)=1.3941 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
28.9732	0.8748	-0.1879	0.99476	0.29405	4.217	2.577	0.36472	415.3
28.3259	0.8768	-0.1690	0.89293	0.30396	4.311	2.619	0.36667	417.9
27.6785	0.8786	-0.1504	0.89136	0.31354	4.393	2.654	0.36835	420.2
27.0312	0.8802	-0.1320	0.88999	0.32296	4.466	2.686	0.36982	422.1
26.3839	0.8815	-0.1136	0.88880	0.33234	4.529	2.713	0.37108	423.8
25.7366	0.8827	-0.0952	0.88779	0.34177	4.583	2.736	0.37216	425.2
25.0893	0.8836	-0.0767	0.88694	0.35134	4.628	2.755	0.37306	426.4
24.4419	0.8844	-0.0580	0.88626	0.36113	4.665	2.771	0.37378	427.3
23.7946	0.8849	-0.0390	0.88575	0.37123	4.693	2.783	0.37432	428.1
23.1473	0.8852	-0.0197	0.88542	0.38172	4.710	2.790	0.37467	428.5
22.5000	0.8853	0.0000	0.88529	0.39270	4.717	2.793	0.37479	428.7

CONE SEMI-ANGLE=22.5
 FREE STREAM CONDITIONS
 MACH NR.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 5239.3 FT./SEC. ENTROPY=31.8722

CONE SEMI-ANGLE=22.5
 FREE STREAM CONDITIONS
 MACH NR.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

CONE SEMI-ANGLE=22.5
 FREE STREAM CONDITIONS
 MACH NR.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

SHOCK ANGLE=26.6473
 GAMMA (AVG.)=1.3764
 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. 50.

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 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. 50.

SHOCK ANGLE=26.6473
 GAMMA (AVG.)=1.3764
 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. 50.

FLWM PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6473	0.8938	-0.1250	0.90247	0.32609	8.312	3.587	0.28257	588.2
26.2326	0.8946	-0.1125	0.90165	0.33280	8.444	3.628	0.28343	590.8
25.8179	0.8954	-0.1000	0.90094	0.33937	8.561	3.665	0.28418	593.0
25.4031	0.8960	-0.0876	0.90032	0.34587	8.664	3.697	0.28483	594.9
24.9884	0.8966	-0.0753	0.89978	0.35233	8.754	3.725	0.28540	596.6
24.5737	0.8971	-0.0630	0.89932	0.35881	8.831	3.748	0.28588	598.0
24.1589	0.8975	-0.0506	0.89894	0.36533	8.895	3.768	0.28627	599.2
23.7442	0.8978	-0.0382	0.89864	0.37195	8.946	3.784	0.28659	600.1
23.3294	0.8981	-0.0256	0.89842	0.37869	8.983	3.795	0.28682	600.8
22.9147	0.8982	-0.0129	0.89827	0.38559	9.007	3.802	0.28697	601.3
22.5000	0.8982	0.0000	0.89822	0.39270	9.015	3.805	0.28702	601.4

FLWM PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
3.110	0.8938	-0.1484	0.89938	0.31402	6.060	3.110	0.31420	494.7
3.151	0.89823	-0.1335	0.89823	0.32194	6.172	3.151	0.31542	497.2
3.187	0.89724	-0.1187	0.89724	0.32967	6.271	3.187	0.31647	499.4
3.219	0.89637	-0.1041	0.89637	0.33728	6.357	3.219	0.31739	501.3
3.246	0.89562	-0.0895	0.89562	0.34486	6.432	3.246	0.31818	503.0
3.270	0.89498	-0.0749	0.89498	0.35246	6.497	3.270	0.31886	504.4
3.289	0.89444	-0.0602	0.89444	0.36014	6.551	3.289	0.31942	505.5
3.305	0.89402	-0.0455	0.89402	0.36795	6.594	3.305	0.31987	506.5
3.317	0.89370	-0.0305	0.89370	0.37595	6.626	3.317	0.32020	507.2
3.324	0.89350	-0.0154	0.89350	0.38417	6.647	3.324	0.32041	507.6
3.327	0.89342	0.0000	0.89342	0.39270	6.654	3.327	0.32048	507.7

FLWM PROPERTIES

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
0.8870	0.8883	-0.1484	0.89938	0.31402	6.060	3.110	0.31420	494.7
0.8883	0.89823	-0.1335	0.89823	0.32194	6.172	3.151	0.31542	497.2
0.8893	0.89724	-0.1187	0.89724	0.32967	6.271	3.187	0.31647	499.4
0.8903	0.89637	-0.1041	0.89637	0.33728	6.357	3.219	0.31739	501.3
0.8911	0.89562	-0.0895	0.89562	0.34486	6.432	3.246	0.31818	503.0
0.8918	0.89498	-0.0749	0.89498	0.35246	6.497	3.270	0.31886	504.4
0.8924	0.89444	-0.0602	0.89444	0.36014	6.551	3.289	0.31942	505.5
0.8929	0.89402	-0.0455	0.89402	0.36795	6.594	3.305	0.31987	506.5
0.8932	0.89370	-0.0305	0.89370	0.37595	6.626	3.317	0.32020	507.2
0.8934	0.89350	-0.0154	0.89350	0.38417	6.647	3.324	0.32041	507.6
0.8934	0.89342	0.0000	0.89342	0.39270	6.654	3.327	0.32048	507.7

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=25.7409 ENTROPY=33.4224
GAMMA (AVG.)=1.3506 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
25.7409	0.9008	-0.0992	0.90620	0.33958	14.040	4.378	0.24513	814.0
25.4168	0.9013	-0.0892	0.90569	0.34494	14.222	4.420	0.24567	816.7
25.0927	0.9018	-0.0793	0.90524	0.35021	14.384	4.457	0.24614	819.1
24.7686	0.9022	-0.0695	0.90484	0.35543	14.526	4.490	0.24655	821.2
24.4445	0.9025	-0.0597	0.90450	0.36062	14.650	4.518	0.24690	823.1
24.1204	0.9028	-0.0499	0.90421	0.36582	14.755	4.542	0.24720	824.6
23.7963	0.9031	-0.0400	0.90397	0.37104	14.843	4.562	0.24745	825.9
23.4722	0.9033	-0.0301	0.90378	0.37632	14.912	4.578	0.24765	826.9
23.1482	0.9034	-0.0202	0.90364	0.38167	14.963	4.590	0.24779	827.6
22.8241	0.9035	-0.0101	0.90355	0.38712	14.995	4.597	0.24788	828.0
22.5000	0.9035	0.0000	0.90351	0.39270	15.007	4.600	0.24791	828.2

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=25.2658 ENTROPY=34.1384
GAMMA (AVG.)=1.3287 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
25.2658	0.9043	-0.0853	0.90835	0.34689	21.405	5.002	0.22377	1086.3
24.9892	0.9047	-0.0767	0.90797	0.35152	21.647	5.044	0.22417	1089.3
24.7127	0.9051	-0.0682	0.90763	0.35607	21.861	5.082	0.22451	1092.0
24.4361	0.9054	-0.0598	0.90724	0.36059	22.050	5.115	0.22482	1094.3
24.1595	0.9056	-0.0513	0.90708	0.36508	22.214	5.143	0.22508	1096.3
23.8829	0.9059	-0.0428	0.90687	0.36958	22.354	5.168	0.22530	1098.0
23.6063	0.9060	-0.0344	0.90669	0.37409	22.470	5.188	0.22549	1099.4
23.3297	0.9062	-0.0259	0.90655	0.37865	22.562	5.204	0.22563	1100.5
23.0531	0.9063	-0.0173	0.90644	0.38325	22.629	5.216	0.22574	1101.4
22.7766	0.9063	-0.0087	0.90638	0.38793	22.671	5.223	0.22580	1101.9
22.5000	0.9064	-0.0000	0.90635	0.39270	22.686	5.225	0.22583	1102.0

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=24.9757 ENTROPY=34.8397

GAMMA (AVG.)=1.3138 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.9757	0.9065	-0.0767	0.90973	0.35144	30.408	5.502	0.21019	1403.0
24.7281	0.9068	-0.0690	0.90942	0.35561	30.718	5.544	0.21051	1406.4
24.4805	0.9071	-0.0614	0.90915	0.35972	30.994	5.582	0.21080	1409.4
24.2330	0.9073	-0.0537	0.90891	0.36379	31.237	5.615	0.21104	1412.1
23.9854	0.9075	-0.0461	0.90870	0.36785	31.447	5.644	0.21126	1414.3
23.7378	0.9077	-0.0385	0.90853	0.37191	31.627	5.669	0.21144	1416.3
23.4903	0.9079	-0.0309	0.90838	0.37598	31.776	5.689	0.21159	1417.8
23.2427	0.9080	-0.0232	0.90827	0.38008	31.893	5.705	0.21171	1419.1
22.9951	0.9080	-0.0155	0.90818	0.38422	31.979	5.717	0.21179	1420.0
22.7476	0.9081	-0.0078	0.90813	0.38842	32.032	5.724	0.21184	1420.6
22.5000	0.9081	-0.0000	0.90811	0.39270	32.051	5.726	0.21186	1420.8

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=24.7831 ENTROPY=35.5116

GAMMA (AVG.)=1.3043 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.7831	0.9079	-0.0710	0.91067	0.35450	41.050	5.904	0.20099	1764.9
24.5548	0.9082	-0.0639	0.91041	0.35836	41.437	5.947	0.20127	1768.8
24.3265	0.9084	-0.0568	0.91017	0.36216	41.782	5.985	0.20151	1772.2
24.0981	0.9086	-0.0497	0.90997	0.36594	42.086	6.018	0.20173	1775.2
23.8698	0.9088	-0.0427	0.90979	0.36970	42.350	6.047	0.20191	1777.8
23.6415	0.9089	-0.0356	0.90964	0.37347	42.575	6.072	0.20207	1780.0
23.4132	0.9091	-0.0286	0.90952	0.37724	42.761	6.092	0.20220	1781.8
23.1849	0.9092	-0.0215	0.90942	0.38104	42.908	6.108	0.20230	1783.2
22.9566	0.9092	-0.0144	0.90935	0.38487	43.015	6.120	0.20237	1784.2
22.7283	0.9093	-0.0072	0.90930	0.38875	43.081	6.127	0.20242	1784.9
22.5000	0.9093	0.0000	0.90929	0.39270	43.105	6.129	0.20243	1785.1

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=24.6484 ENTRØPY=36.1489
GAMMA (AVG.)=1.2983 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
24.6484	0.9089	-0.0670	0.91134	0.35666	53.328	6.229	0.19448	2173.3
24.4335	0.9091	-0.0602	0.91111	0.36030	53.804	6.272	0.19472	2177.7
24.2187	0.9093	-0.0535	0.91090	0.36389	54.227	6.310	0.19494	2181.7
24.0039	0.9095	-0.0469	0.91072	0.36746	54.600	6.343	0.19514	2185.1
23.7890	0.9097	-0.0402	0.91056	0.37101	54.924	6.372	0.19530	2188.1
23.5742	0.9098	-0.0336	0.91043	0.37456	55.200	6.396	0.19544	2190.6
23.3593	0.9099	-0.0269	0.91032	0.37813	55.427	6.417	0.19556	2192.7
23.1445	0.9100	-0.0202	0.91023	0.38171	55.607	6.433	0.19565	2194.3
22.9297	0.9101	-0.0135	0.91017	0.38533	55.738	6.444	0.19571	2195.5
22.7148	0.9101	-0.0068	0.91013	0.38899	55.819	6.452	0.19575	2196.2
22.5000	0.9101	0.0000	0.91011	0.39270	55.848	6.454	0.19577	2196.5

CONE SEMI-ANGLE=22.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=24.3765 ENTRØPY=36.8575
GAMMA (AVG.)=1.1246 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
24.3765	0.9109	-0.0589	0.91275	0.36086	67.240	7.006	0.16984	2396.6
24.1888	0.9110	-0.0530	0.91257	0.36411	67.772	7.054	0.16994	2398.4
24.0012	0.9112	-0.0470	0.91241	0.36731	68.245	7.098	0.17004	2400.0
23.8135	0.9113	-0.0412	0.91227	0.37048	68.660	7.136	0.17011	2401.3
23.6259	0.9115	-0.0353	0.91214	0.37363	69.019	7.170	0.17019	2402.3
23.4382	0.9116	-0.0295	0.91204	0.37678	69.325	7.198	0.17024	2403.3
23.2506	0.9116	-0.0236	0.91195	0.37992	69.576	7.221	0.17029	2404.1
23.0629	0.9117	-0.0177	0.91189	0.38308	69.774	7.239	0.17032	2404.8
22.8753	0.9118	-0.0118	0.91184	0.38625	69.918	7.252	0.17035	2405.3
22.6876	0.9118	-0.0059	0.91181	0.38946	70.006	7.260	0.17036	2405.7
22.5000	0.9118	0.0000	0.91180	0.39271	70.038	7.263	0.17037	2405.7

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=24.1338 ENTROPY=37.5192
GAMMA (AVG.)=1.1142 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
24.1338	0.9126	-0.0315	0.91404	0.36487	82.831	7.843	0.15825	2550.1
23.9704	0.9127	-0.0463	0.91390	0.36770	83.399	7.991	0.15834	2551.8
23.8071	0.9129	-0.0411	0.91378	0.37050	83.904	8.034	0.15841	2553.3
23.6437	0.9130	-0.0360	0.91367	0.37327	84.347	8.072	0.15847	2554.4
23.4803	0.9131	-0.0309	0.91358	0.37603	84.732	8.104	0.15854	2555.7
23.3169	0.9131	-0.0257	0.91350	0.37878	85.058	8.131	0.15858	2556.8
23.1535	0.9132	-0.0206	0.91343	0.38153	85.327	8.154	0.15862	2557.3
22.9901	0.9132	-0.0155	0.91338	0.38429	85.538	8.171	0.15866	2558.1
22.8267	0.9133	-0.0104	0.91334	0.38707	85.691	8.185	0.15869	2558.3
22.6634	0.9133	-0.0052	0.91332	0.38987	85.785	8.193	0.15870	2558.7
22.5000	0.9133	0.0000	0.91331	0.39270	85.819	8.196	0.15870	2558.6

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.9504 ENTROPY=38.1860
GAMMA (AVG.)=1.1169 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.9504	0.9139	-0.0458	0.91504	0.36793	100.063	8.862	0.14964	2700.2
23.8054	0.9140	-0.0412	0.91493	0.37044	100.668	8.908	0.14971	2701.8
23.6604	0.9141	-0.0366	0.91483	0.37293	101.207	8.950	0.14979	2703.3
23.5153	0.9142	-0.0320	0.91475	0.37539	101.681	8.988	0.14985	2704.3
23.3703	0.9143	-0.0275	0.91467	0.37785	102.092	9.020	0.14989	2705.3
23.2252	0.9143	-0.0229	0.91461	0.38030	102.441	9.046	0.14994	2706.4
23.0802	0.9144	-0.0184	0.91456	0.38275	102.728	9.068	0.14998	2707.1
22.9351	0.9144	-0.0138	0.91452	0.38521	102.954	9.087	0.15001	2707.5
22.7901	0.9144	-0.0092	0.91449	0.38769	103.117	9.099	0.15003	2708.0
22.6450	0.9145	-0.0046	0.91447	0.39018	103.218	9.107	0.15004	2708.2
22.5000	0.9145	-0.0000	0.91446	0.39269	103.254	9.109	0.15005	2708.4

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 283.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.8117 SHOCK ANGLE=23.7112
GAMMA (AVG.)=1.1322 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ. ENTROPY=38.8604
ENTROPY=39.5464

ETA	VR	VN	V	THETA	P	RHO	MU	T	IKI
23.8117	0.9149	-0.0415	0.91582	0.37027	118.934	9.730	0.14352	2852.2	
23.6805	0.9150	-0.0373	0.91573	0.37254	119.502	9.775	0.14359	2854.0	
23.5494	0.9150	-0.0332	0.91565	0.37479	120.158	9.817	0.14366	2855.1	
23.4182	0.9151	-0.0290	0.91557	0.37702	120.666	9.853	0.14371	2856.4	
23.2870	0.9152	-0.0249	0.91551	0.37925	121.107	9.885	0.14376	2857.3	
23.1558	0.9152	-0.0208	0.91546	0.38147	121.481	9.911	0.14380	2858.5	
23.0247	0.9153	-0.0166	0.91542	0.38369	121.789	9.933	0.14385	2859.0	
22.8935	0.9153	-0.0125	0.91539	0.38592	122.031	9.950	0.14387	2859.6	
22.7623	0.9153	-0.0083	0.91536	0.38816	122.206	9.962	0.14389	2860.2	
22.6312	0.9153	-0.0042	0.91535	0.39042	122.313	9.970	0.14390	2860.4	
22.5000	0.9153	-0.0000	0.91534	0.39270	122.351	9.973	0.14390	2860.3	

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.9722

FLOW PROPERTIES

SHOCK ANGLE=23.7112 SHOCK ANGLE=23.7112
GAMMA (AVG.)=1.1573 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ. ENTROPY=39.5464

ETA	VR	VN	V	THETA	P	RHO	MU	T	(N)
23.7112	0.9156	-0.0384	0.91639	0.37198	139.443	10.486	0.13958	3023.1	
23.5900	0.9157	-0.0345	0.91631	0.37407	140.141	10.531	0.13965	3024.7	
23.4689	0.9157	-0.0307	0.91624	0.37614	140.763	10.572	0.13971	3026.0	
23.3478	0.9158	-0.0268	0.91618	0.37821	141.312	10.608	0.13974	3027.3	
23.2267	0.9158	-0.0230	0.91613	0.38026	141.788	10.638	0.13982	3028.5	
23.1056	0.9159	-0.0192	0.91609	0.38232	142.192	10.664	0.13986	3029.5	
22.9845	0.9159	-0.0154	0.91605	0.38437	142.525	10.686	0.13989	3030.1	
22.8633	0.9159	-0.0115	0.91602	0.38644	142.786	10.704	0.13991	3030.6	
22.7422	0.9160	-0.0077	0.91600	0.38851	142.975	10.715	0.13993	3031.3	
22.6211	0.9160	-0.0039	0.91599	0.39060	143.090	10.723	0.13995	3031.2	
22.5000	0.9160	-0.0000	0.91598	0.39270	143.132	10.727	0.13995	3031.2	

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 29340.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.6377 ENTRPHY=40.2001
 GAMMA (AVG.)=1.1862 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6377	0.9161	-0.0360	0.91681	0.37323	161.589	11.123	0.13707	3219.6
23.5239	0.9162	-0.0324	0.91674	0.37519	162.346	11.167	0.13713	3221.5
23.4102	0.9162	-0.0288	0.91660	0.37713	163.022	11.208	0.13720	3222.8
23.2964	0.9163	-0.0252	0.91663	0.37907	163.618	11.242	0.13726	3224.5
23.1826	0.9163	-0.0216	0.91658	0.38101	164.135	11.273	0.13730	3225.4
23.0688	0.9164	-0.0180	0.91654	0.38294	164.574	11.298	0.13734	3226.8
22.9551	0.9164	-0.0145	0.91651	0.38487	164.935	11.318	0.13738	3227.8
22.8413	0.9164	-0.0109	0.91648	0.38681	165.219	11.336	0.13740	3228.2
22.7275	0.9164	-0.0072	0.91646	0.38876	165.424	11.347	0.13742	3228.8
22.6138	0.9164	-0.0036	0.91645	0.39072	165.550	11.355	0.13743	3229.1
22.5000	0.9164	0.0000	0.91645	0.39270	165.595	11.357	0.13743	3229.2

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 31435.8 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.6230 ENTRPHY=41.0435
 GAMMA (AVG.)=1.12217 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6230	0.9162	-0.0356	0.91689	0.37349	185.363	11.265	0.13818	3534.3
23.5107	0.9163	-0.0320	0.91683	0.37542	186.218	11.307	0.13826	3536.8
23.3984	0.9163	-0.0284	0.91677	0.37734	186.982	11.345	0.13833	3539.1
23.2861	0.9164	-0.0249	0.91671	0.37925	187.656	11.379	0.13839	3540.7
23.1738	0.9164	-0.0214	0.91667	0.38116	188.241	11.408	0.13844	3542.6
23.0615	0.9165	-0.0178	0.91663	0.38307	188.738	11.432	0.13848	3544.1
22.9492	0.9165	-0.0143	0.91660	0.38498	189.147	11.452	0.13852	3545.4
22.8369	0.9165	-0.0107	0.91658	0.38689	189.468	11.469	0.13854	3546.1
22.7246	0.9165	-0.0072	0.91656	0.38882	189.700	11.480	0.13856	3546.9
22.6123	0.9165	-0.0036	0.91655	0.39075	189.843	11.488	0.13857	3547.0
22.5000	0.9165	0.0000	0.91654	0.39270	189.893	11.489	0.13858	3547.4

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.6041 ENTRPHY=42.8959
GAMMA (AVG.)=1.1799 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.6041	0.9163	-0.0350	0.91700	0.37379	251.931	11.439	0.13466	4540.1
23.4937	0.9164	-0.0315	0.91694	0.37569	253.079	11.484	0.13471	4542.3
23.3833	0.9165	-0.0280	0.91688	0.37758	254.103	11.525	0.13474	4544.3
23.2729	0.9165	-0.0245	0.91683	0.37947	255.007	11.560	0.13478	4546.2
23.1625	0.9165	-0.0210	0.91679	0.38135	255.791	11.591	0.13481	4547.6
23.0521	0.9166	-0.0175	0.91675	0.38322	256.457	11.618	0.13483	4548.8
22.9416	0.9166	-0.0140	0.91672	0.38510	257.005	11.639	0.13485	4549.9
22.8312	0.9166	-0.0105	0.91670	0.38699	257.434	11.656	0.13486	4550.8
22.7208	0.9167	-0.0070	0.91668	0.38888	257.745	11.668	0.13488	4551.4
22.6104	0.9167	-0.0035	0.91667	0.39078	257.936	11.676	0.13488	4551.8
22.5000	0.9167	0.0000	0.91666	0.39270	258.004	11.678	0.13489	4551.9

CONE SEMI-ANGLE=22.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=23.4988 ENTRPHY=44.7412
GAMMA (AVG.)=1.1412 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
23.4988	0.9171	-0.0317	0.91762	0.37555	328.789	12.567	0.12616	5115.6
23.3989	0.9171	-0.0285	0.91756	0.37728	330.144	12.613	0.12619	5117.4
23.2990	0.9172	-0.0254	0.91752	0.37899	331.353	12.653	0.12623	5119.1
23.1991	0.9172	-0.0222	0.91748	0.38070	332.419	12.689	0.12625	5120.5
23.0993	0.9172	-0.0190	0.91744	0.38241	333.345	12.720	0.12627	5121.7
22.9994	0.9173	-0.0159	0.91741	0.38411	334.130	12.747	0.12629	5122.7
22.8995	0.9173	-0.0127	0.91738	0.38582	334.776	12.768	0.12631	5123.7
22.7996	0.9173	-0.0095	0.91736	0.38752	335.282	12.786	0.12632	5124.3
22.6998	0.9173	-0.0064	0.91735	0.38924	335.648	12.798	0.12633	5124.8
22.5999	0.9173	-0.0032	0.91734	0.39096	335.872	12.805	0.12634	5125.1
22.5000	0.9173	-0.0000	0.91734	0.39270	335.952	12.808	0.12634	5125.2

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRPHY=31.8722

FLRW PROPERTIES

SHOCK ANGLE=34.6888 ENTRPHY=32.0286
GAMMA (AVG.)=1.3968 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4888	0.8242	-0.2577	0.86351	0.29886	3.201	2.197	0.48420	369.9
33.5344	0.8282	-0.2318	0.85999	0.31245	3.285	2.236	0.48826	372.6
32.5910	0.8317	-0.2065	0.85699	0.32551	3.358	2.273	0.49175	374.9
31.6421	0.8349	-0.1814	0.85439	0.33834	3.421	2.304	0.49477	376.9
30.6932	0.8377	-0.1564	0.85214	0.35115	3.477	2.331	0.49740	378.7
29.7444	0.8400	-0.1313	0.85021	0.36411	3.525	2.354	0.49967	380.1
28.7955	0.8419	-0.1060	0.84858	0.37737	3.563	2.373	0.50158	381.4
27.8466	0.8434	-0.0803	0.84725	0.39106	3.598	2.389	0.50313	382.4
26.8977	0.8445	-0.0542	0.84625	0.40514	3.623	2.401	0.50430	383.1
25.9488	0.8451	-0.0275	0.84559	0.42037	3.640	2.408	0.50506	383.6
25.0000	0.8453	-0.0000	0.84532	0.43633	3.646	2.411	0.50535	383.8

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRPHY=31.8722

FLRW PROPERTIES

SHOCK ANGLE=31.5438 ENTRPHY=32.2633
GAMMA (AVG.)=1.3915 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5438	0.8522	-0.1862	0.87231	0.33538	4.948	2.809	0.38905	447.2
30.8894	0.8542	-0.1675	0.87046	0.34548	5.049	2.850	0.39105	449.7
30.2351	0.8560	-0.1491	0.86886	0.35530	5.138	2.886	0.39280	451.9
29.5807	0.8576	-0.1307	0.86746	0.36498	5.216	2.917	0.39431	453.9
28.9263	0.8589	-0.1125	0.86626	0.37462	5.284	2.945	0.39562	455.5
28.2719	0.8601	-0.0942	0.86523	0.38432	5.342	2.968	0.39674	456.9
27.6175	0.8610	-0.0758	0.86436	0.39416	5.391	2.987	0.39768	458.1
26.9631	0.8618	-0.0573	0.86367	0.40420	5.431	3.003	0.39843	459.0
26.3088	0.8623	-0.0385	0.86316	0.41452	5.460	3.015	0.39898	459.7
25.6544	0.8626	-0.0195	0.86283	0.42520	5.479	3.022	0.39933	460.2
25.0000	0.8627	0.0000	0.86269	0.43633	5.486	3.025	0.39947	460.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=30.1140 ENTRPHY=32.5788
GAMMA (AVG.)=1.3818 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
30.1140	0.8650	-0.1489	0.87773	0.35506	7.195	3.368	0.33729	542.2
29.6026	0.8662	-0.1340	0.87654	0.36322	7.317	3.410	0.33855	544.7
29.0912	0.8674	-0.1192	0.87551	0.37121	7.425	3.446	0.33964	546.9
28.5798	0.8683	-0.1045	0.87461	0.37909	7.520	3.478	0.34060	548.9
28.0684	0.8692	-0.0898	0.87383	0.38695	7.602	3.505	0.34142	550.5
27.5570	0.8699	-0.0751	0.87316	0.39483	7.673	3.529	0.34212	551.9
27.0456	0.8705	-0.0604	0.87261	0.40278	7.732	3.549	0.34271	553.1
26.5342	0.8710	-0.0455	0.87217	0.41086	7.780	3.564	0.34317	554.0
26.0228	0.8713	-0.0306	0.87184	0.41911	7.814	3.576	0.34351	554.7
25.5114	0.8715	-0.0154	0.87163	0.42758	7.836	3.583	0.34373	555.2
25.0000	0.8715	0.0000	0.87155	0.43633	7.844	3.586	0.34381	555.3

CONE SEMI-ANGLE=25.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=29.2967 ENTRPHY=32.9415
GAMMA (AVG.)=1.3685 STAG. ENTHALPY=2.2408E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
29.2967	0.8721	-0.1268	0.88125	0.36690	9.940	3.858	0.30492	654.0
28.8670	0.8730	-0.1141	0.88039	0.37388	10.087	3.900	0.30582	656.6
28.4374	0.8738	-0.1014	0.87964	0.38074	10.217	3.936	0.30660	658.9
28.0077	0.8745	-0.0889	0.87898	0.38752	10.332	3.968	0.30728	660.9
27.5780	0.8751	-0.0764	0.87841	0.39427	10.431	3.996	0.30788	662.6
27.1483	0.8756	-0.0638	0.87792	0.40104	10.516	4.020	0.30838	664.0
26.7187	0.8760	-0.0513	0.87752	0.40786	10.587	4.040	0.30879	665.2
26.2890	0.8763	-0.0386	0.87720	0.41476	10.644	4.056	0.30912	666.2
25.8593	0.8766	-0.0259	0.87696	0.42178	10.685	4.067	0.30936	666.9
25.4297	0.8767	-0.0130	0.87681	0.42896	10.711	4.075	0.30951	667.3
25.0000	0.8768	0.0000	0.87676	0.43633	10.721	4.077	0.30957	667.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=28.4105 ENTRØPY=33.7226
GAMMA (AVG.)=1.3406 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
28.4105	0.8795	-0.1022	0.88546	0.38022	16.927	4.657	0.26658	922.7
28.0695	0.8801	-0.0919	0.88490	0.38587	17.133	4.699	0.26715	925.5
27.7284	0.8806	-0.0817	0.88441	0.39144	17.316	4.736	0.26765	928.0
27.3874	0.8811	-0.0716	0.88398	0.39696	17.477	4.769	0.26808	930.2
27.0463	0.8815	-0.0614	0.88361	0.40245	17.617	4.798	0.26846	932.1
26.7053	0.8818	-0.0513	0.88329	0.40795	17.736	4.822	0.26878	933.7
26.3642	0.8821	-0.0412	0.88303	0.41348	17.835	4.842	0.26904	935.0
26.0232	0.8823	-0.0310	0.88282	0.41905	17.913	4.858	0.26925	936.1
25.6821	0.8824	-0.0208	0.88267	0.42471	17.971	4.869	0.26940	936.8
25.3410	0.8825	-0.0104	0.88257	0.43046	18.007	4.877	0.26950	937.3
25.0000	0.8825	0.0000	0.88254	0.43633	18.020	4.879	0.26953	937.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=27.9413 ENTRØPY=34.5085
GAMMA (AVG.)=1.3201 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
27.9413	0.8834	-0.0888	0.88787	0.38749	25.913	5.277	0.24483	1246.5
27.6471	0.8838	-0.0799	0.88745	0.39242	26.189	5.319	0.24526	1249.7
27.3530	0.8842	-0.0710	0.88708	0.39727	26.434	5.357	0.24563	1252.5
27.0589	0.8846	-0.0622	0.88675	0.40209	26.650	5.390	0.24596	1255.0
26.7647	0.8849	-0.0534	0.88647	0.40689	26.838	5.419	0.24624	1257.2
26.4706	0.8851	-0.0446	0.88623	0.41169	26.998	5.444	0.24648	1259.0
26.1765	0.8853	-0.0357	0.88603	0.41651	27.130	5.464	0.24668	1260.5
25.8824	0.8855	-0.0269	0.88587	0.42136	27.235	5.480	0.24684	1261.6
25.5882	0.8856	-0.0180	0.88576	0.42627	27.312	5.491	0.24695	1262.5
25.2941	0.8856	-0.0090	0.88569	0.43126	27.359	5.499	0.24702	1263.0
25.0000	0.8857	0.0000	0.88566	0.43633	27.376	5.501	0.24705	1263.2

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 12574.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=27.6548 ENTRPHY=35.2653
 GAMMA (AVG.)=1.3074 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
27.6548	0.8858	-0.0805	0.88941	0.39201	36.896	5.764	0.23114	1624.8
27.3893	0.8861	-0.0724	0.88906	0.39648	37.254	5.807	0.23149	1628.5
27.1238	0.8864	-0.0644	0.88875	0.40089	37.572	5.845	0.23180	1631.7
26.8583	0.8867	-0.0564	0.88848	0.40527	37.852	5.878	0.23207	1634.6
26.5928	0.8869	-0.0484	0.88825	0.40964	38.095	5.907	0.23231	1637.1
26.3274	0.8871	-0.0404	0.88805	0.41400	38.302	5.932	0.23251	1639.1
26.0619	0.8873	-0.0324	0.88789	0.41838	38.474	5.952	0.23267	1640.9
25.7964	0.8874	-0.0244	0.88776	0.42278	38.609	5.968	0.23280	1642.2
25.5309	0.8875	-0.0163	0.88767	0.42724	38.708	5.980	0.23289	1643.2
25.2655	0.8876	-0.0082	0.88761	0.43175	38.769	5.987	0.23295	1643.8
25.0000	0.8876	0.0000	0.88759	0.43633	38.791	5.989	0.23297	1644.0

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 14670.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=27.4657 ENTRPHY=35.9816
 GAMMA (AVG.)=1.2907 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHR	MU	T (K)
27.4657	0.8873	-0.0750	0.89045	0.39502	49.877	6.148	0.22196	2059.2
27.2191	0.8876	-0.0675	0.89015	0.39919	50.328	6.191	0.22227	2063.5
26.9725	0.8879	-0.0600	0.88988	0.40330	50.729	6.229	0.22254	2067.3
26.7260	0.8881	-0.0525	0.88965	0.40739	51.083	6.263	0.22278	2070.6
26.4794	0.8883	-0.0451	0.88945	0.41146	51.390	6.291	0.22298	2073.4
26.2328	0.8885	-0.0376	0.88927	0.41553	51.651	6.316	0.22315	2075.9
25.9863	0.8886	-0.0302	0.88913	0.41962	51.867	6.336	0.22330	2077.9
25.7397	0.8887	-0.0227	0.88902	0.42372	52.038	6.352	0.22341	2079.4
25.4931	0.8888	-0.0152	0.88894	0.42787	52.162	6.364	0.22349	2080.6
25.2466	0.8889	-0.0076	0.88889	0.43207	52.239	6.371	0.22354	2081.3
25.0000	0.8889	0.0000	0.88887	0.43633	52.267	6.374	0.22356	2081.5

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=27.1726 ENTROPY=36.7492
GAMMA (AVG.)=1.1280 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
27.1726	0.8996	-0.0666	0.89212	0.39950	64.840	6.854	0.19467	2370.9
26.9554	0.8999	-0.0599	0.89188	0.40326	65.366	6.903	0.19480	2372.7
26.7381	0.8901	-0.0532	0.89167	0.40696	65.833	6.947	0.19491	2374.2
26.5208	0.8903	-0.0466	0.89148	0.41062	66.243	6.985	0.19500	2375.7
26.3036	0.8904	-0.0399	0.89132	0.41426	66.599	7.018	0.19511	2376.8
25.0863	0.8906	-0.0333	0.89119	0.41790	66.901	7.046	0.19517	2377.6
25.8690	0.8907	-0.0267	0.89108	0.42153	67.149	7.069	0.19523	2378.8
25.6518	0.8908	-0.0201	0.89099	0.42518	67.345	7.088	0.19527	2379.3
25.4345	0.8908	-0.0134	0.89092	0.42886	67.487	7.101	0.19531	2379.7
25.2173	0.8909	-0.0067	0.89088	0.43257	67.575	7.109	0.19533	2380.1
25.0000	0.8909	-0.0000	0.89087	0.43633	67.606	7.112	0.19534	2380.2

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=26.8599 ENTROPY=37.4795
GAMMA (AVG.)=1.1144 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.8599	0.8921	-0.0573	0.89395	0.40467	81.855	7.887	0.17958	2541.1
26.6739	0.8923	-0.0515	0.89377	0.40789	82.420	7.935	0.17970	2542.9
26.4879	0.8924	-0.0458	0.89361	0.41107	82.923	7.978	0.17978	2544.2
26.3019	0.8926	-0.0400	0.89348	0.41422	83.365	8.016	0.17986	2545.4
26.1159	0.8927	-0.0343	0.89336	0.41736	83.748	8.049	0.17994	2546.4
25.9299	0.8928	-0.0286	0.89326	0.42049	84.073	8.076	0.18000	2547.4
25.7440	0.8929	-0.0229	0.89318	0.42362	84.341	8.099	0.18005	2548.2
25.5580	0.8929	-0.0172	0.89311	0.42676	84.551	8.116	0.18008	2548.9
25.3720	0.8930	-0.0115	0.89306	0.42992	84.703	8.129	0.18011	2549.5
25.1860	0.8930	-0.0058	0.89303	0.43311	84.797	8.138	0.18014	2549.4
25.0000	0.8930	0.0000	0.89302	0.43633	84.831	8.140	0.18014	2549.7

CBNE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=26.6297 ENTRPHY=38.2158

GAMMA AVG.=1.1173 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.6247	0.8939	-0.0504	0.89534	0.40851	100.867	8.902	0.16872	2706.8
26.4668	0.8941	-0.0453	0.89520	0.41133	101.475	8.949	0.16881	2708.2
26.3038	0.8942	-0.0402	0.89508	0.41412	102.015	8.992	0.16889	2709.4
26.1408	0.8943	-0.0352	0.89497	0.41689	102.491	9.028	0.16897	2710.8
25.9778	0.8944	-0.0302	0.89488	0.41965	102.903	9.060	0.16903	2711.9
25.8149	0.8944	-0.0252	0.89480	0.42240	103.253	9.088	0.16909	2712.5
25.6519	0.8945	-0.0202	0.89474	0.42516	103.541	9.110	0.16913	2713.1
25.4889	0.8946	-0.0152	0.89469	0.42792	103.767	9.127	0.16916	2714.0
25.3259	0.8946	-0.0101	0.89465	0.43070	103.931	9.140	0.16918	2714.4
25.1630	0.8946	-0.0051	0.89461	0.43350	104.032	9.148	0.16920	2714.5
25.0000	0.8946	-0.0000	0.89462	0.43633	104.068	9.150	0.16921	2714.7

CBNE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=26.6613 ENTRPHY=3 7616

GAMMA AVG.=1.1355 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.4613	0.8952	-0.0452	0.89638	0.41135	121.882	9.851	0.16131	2876.0
26.3152	0.8953	-0.0407	0.89627	0.41388	122.537	9.897	0.16139	2877.5
26.1691	0.8954	-0.0362	0.89617	0.41638	123.120	9.938	0.16147	2878.9
26.0229	0.8955	-0.0316	0.89608	0.41887	123.633	9.973	0.16153	2880.4
25.8768	0.8956	-0.0271	0.89601	0.42135	124.079	10.005	0.16159	2881.2
25.7307	0.8957	-0.0226	0.89595	0.42382	124.457	10.032	0.16164	2882.0
25.5845	0.8957	-0.0181	0.89589	0.42630	124.768	10.054	0.16168	2882.9
25.4384	0.8957	-0.0136	0.89585	0.42879	125.013	10.071	0.16171	2883.3
25.2922	0.8958	-0.0091	0.89582	0.43128	125.190	10.084	0.16174	2883.7
25.1461	0.8958	-0.0046	0.89581	0.43380	125.298	10.091	0.16176	2884.0
25.0000	0.8958	0.0000	0.89580	0.43633	125.337	10.094	0.16176	2884.1

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=26.3441 ENTROPY=39.7223
GAMMA (AVG.)=1.1644 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3441	0.8961	-0.0417	0.89711	0.41334	144.891	10.652	0.15683	3071.6
26.2097	0.8962	-0.0375	0.89702	0.41565	145.504	10.696	0.15692	3073.5
26.0753	0.8963	-0.0333	0.89694	0.41796	146.239	10.736	0.15700	3074.9
25.9409	0.8964	-0.0292	0.89686	0.42025	146.800	10.772	0.15706	3076.0
25.8065	0.8965	-0.0250	0.89680	0.42253	147.286	10.802	0.15712	3077.4
25.6721	0.8965	-0.0208	0.89675	0.42481	147.699	10.828	0.15717	3078.4
25.5376	0.8965	-0.0167	0.89670	0.42709	148.038	10.850	0.15720	3078.9
25.4032	0.8966	-0.0125	0.89667	0.42938	148.305	10.866	0.15725	3079.8
25.2688	0.8966	-0.0084	0.89664	0.43168	148.498	10.878	0.15727	3080.2
25.1344	0.8966	-0.0042	0.89663	0.43400	148.616	10.887	0.15727	3080.3
25.0000	0.8966	-0.0000	0.89662	0.43633	148.658	10.890	0.15728	3080.2

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=26.2706 ENTROPY=40.4688
GAMMA (AVG.)=1.1990 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.2706	0.8967	-0.0394	0.89758	0.41459	169.897	11.232	0.15481	3316.0
26.1435	0.8968	-0.0355	0.89750	0.41678	170.684	11.277	0.15490	3318.0
26.0164	0.8969	-0.0315	0.89742	0.41895	171.387	11.315	0.15497	3319.9
25.8894	0.8969	-0.0276	0.89736	0.42112	172.007	11.349	0.15504	3321.6
25.7623	0.8970	-0.0237	0.89730	0.42328	172.545	11.379	0.15510	3322.8
25.6353	0.8970	-0.0197	0.89725	0.42543	173.002	11.404	0.15514	3324.1
25.5082	0.8971	-0.0158	0.89721	0.42759	173.378	11.426	0.15519	3324.9
25.3812	0.8971	-0.0119	0.89718	0.42976	173.673	11.442	0.15521	3325.6
25.2541	0.8971	-0.0079	0.89716	0.43194	173.886	11.453	0.15524	3326.4
25.1270	0.8971	-0.0040	0.89715	0.43413	174.017	11.462	0.15525	3326.3
25.0000	0.8971	0.0000	0.89714	0.43633	174.064	11.464	0.15525	3326.4

CONE SEMI-ANGLE=25.0

CONE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=26.2904 ENTROPY=41.4701
GAMMA (AVG.)=1.2316 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=26.3045 ENTROPY=42.3212
GAMMA (AVG.)=1.2062 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.2904	0.8965	-0.0400	0.89745	0.41427	196.883	11.075	0.15803	3759.7
26.1613	0.8966	-0.0360	0.89737	0.41649	197.808	11.116	0.15812	3763.0
26.0323	0.8967	-0.0320	0.89729	0.41869	198.834	11.152	0.15821	3765.9
25.9033	0.8968	-0.0280	0.89722	0.42089	199.363	11.184	0.15828	3768.7
25.7742	0.8968	-0.0240	0.89717	0.42308	199.996	11.212	0.15835	3770.7
25.6452	0.8969	-0.0200	0.89712	0.42527	200.534	11.236	0.15841	3772.6
25.5161	0.8969	-0.0160	0.89708	0.42746	200.977	11.255	0.15845	3774.3
25.3871	0.8970	-0.0120	0.89704	0.42966	201.324	11.270	0.15849	3775.5
25.2581	0.8970	-0.0080	0.89702	0.43187	201.575	11.282	0.15851	3776.3
25.1290	0.8970	-0.0040	0.89701	0.43409	201.729	11.287	0.15853	3777.2
25.0000	0.8970	-0.0000	0.89700	0.43633	201.785	11.290	0.15853	3777.3

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
26.3045	0.8965	-0.0404	0.89736	0.41403	225.855	10.959	0.15721	4290.0
26.1760	0.8965	-0.0364	0.89728	0.41627	226.931	11.004	0.15727	4292.8
26.0436	0.8966	-0.0323	0.89720	0.41850	227.892	11.044	0.15732	4295.3
25.9131	0.8967	-0.0283	0.89713	0.42072	228.739	11.079	0.15736	4297.4
25.7827	0.8967	-0.0243	0.89707	0.42293	229.475	11.110	0.15740	4299.4
25.6522	0.8968	-0.0202	0.89702	0.42515	230.100	11.136	0.15743	4301.0
25.5218	0.8968	-0.0162	0.89698	0.42736	230.615	11.157	0.15746	4302.3
25.3913	0.8969	-0.0122	0.89695	0.42959	231.019	11.174	0.15748	4303.3
25.2609	0.8969	-0.0081	0.89692	0.43182	231.311	11.186	0.15749	4304.1
25.1304	0.8969	-0.0041	0.89691	0.43407	231.490	11.193	0.15750	4304.6
25.0000	0.8969	-0.0000	0.89690	0.43633	231.554	11.196	0.15750	4304.7

CRNE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRPHY=31.8722

FLW PRPERTIES

SHECK ANGLE=26.1572 ENTRPHY=44.2340
GAMMA (AVG.)=1.1495 STAG. ENTHALPHY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.1572	0.8976	-0.0360	0.89831	0.41648	307.091	12.256	0.14478	4977.1
26.0415	0.8977	-0.0324	0.89824	0.41648	308.391	12.301	0.14482	4978.9
25.9257	0.8977	-0.0288	0.89818	0.42046	309.551	12.341	0.14486	4980.7
25.8100	0.8978	-0.0252	0.89812	0.42244	310.574	12.377	0.14490	4982.2
25.6943	0.8978	-0.0216	0.89806	0.42442	311.462	12.408	0.14493	4983.5
25.5786	0.8979	-0.0180	0.89804	0.42639	312.215	12.435	0.14495	4984.5
25.4629	0.8979	-0.0144	0.89800	0.42836	312.835	12.457	0.14497	4985.5
25.3471	0.8979	-0.0108	0.89798	0.43034	313.321	12.473	0.14499	4986.3
25.2314	0.8979	-0.0072	0.89796	0.43233	313.672	12.486	0.14500	4986.8
25.1157	0.8979	-0.0036	0.89795	0.43432	313.887	12.493	0.14501	4987.2
25.0000	0.8979	0.0000	0.89794	0.43633	313.964	12.496	0.14501	4987.2

CRNE SEMI-ANGLE=25.0

FREE STREAM CONDITIONS

MACH NO.=46.00 ALTITUDE=20000.0 FEET PRESSURE=6.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 41144.3 FT./SEC. ENTRPHY=31.8722

FLW PRPERTIES

SHECK ANGLE=26.0981 ENTRPHY=46.3454
GAMMA (AVG.)=1.1261 STAG. ENTHALPHY=8.815E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.0381	0.8985	-0.0323	0.89908	0.41848	400.840	13.576	0.13581	5475.6
25.9343	0.8986	-0.0291	0.89903	0.42028	402.361	13.621	0.13584	5477.3
25.8305	0.8986	-0.0259	0.89898	0.42207	403.719	13.662	0.13588	5478.6
25.7267	0.8986	-0.0226	0.89893	0.42385	404.916	13.694	0.13591	5480.0
25.6227	0.8987	-0.0194	0.89890	0.42562	405.954	13.729	0.13593	5481.1
25.5191	0.8987	-0.0162	0.89886	0.42740	406.835	13.759	0.13595	5481.9
25.4152	0.8987	-0.0130	0.89884	0.42917	407.560	13.777	0.13597	5482.7
25.3114	0.8988	-0.0097	0.89882	0.43095	408.127	13.794	0.13598	5483.4
25.2076	0.8988	-0.0065	0.89880	0.43273	408.537	13.806	0.13599	5483.8
25.1038	0.8988	-0.0033	0.89879	0.43453	408.788	13.814	0.13600	5484.0
25.0000	0.8988	0.0000	0.89879	0.43633	408.878	13.817	0.13600	5484.0

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=37.0805 ENTROPY=32.0858
GAMMA (AVG.)=1.3957 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VK	VN	V	THETA	P	RHO	MU	T (K)
37.0805	0.7977	-0.2538	0.83710	0.33916	3.652	2.376	0.51561	390.3
36.1224	0.8017	-0.2283	0.83357	0.35299	3.741	2.417	0.51990	392.9
35.1644	0.8053	-0.2033	0.83053	0.36638	3.818	2.452	0.52361	395.2
34.2063	0.8084	-0.1786	0.82790	0.37959	3.885	2.483	0.52685	397.2
33.2483	0.8111	-0.1539	0.82561	0.39280	3.944	2.510	0.52966	398.9
32.2902	0.8135	-0.1291	0.82365	0.40616	3.994	2.533	0.53208	400.3
31.3322	0.8154	-0.1041	0.82200	0.41981	4.037	2.552	0.53412	401.5
30.3741	0.8169	-0.0789	0.82066	0.43387	4.072	2.568	0.53578	402.5
29.4161	0.8179	-0.0532	0.81965	0.44849	4.098	2.580	0.53702	403.2
28.4580	0.8186	-0.0269	0.81900	0.46379	4.115	2.588	0.53782	403.7
27.5000	0.8187	0.0000	0.81874	0.47997	4.121	2.590	0.53813	403.9

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=6.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.1842 ENTROPY=32.3746
GAMMA (AVG.)=1.3884 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.1842	0.8272	-0.1856	0.84775	0.37593	5.736	3.027	0.41622	480.9
33.5158	0.8292	-0.1669	0.84586	0.38630	5.844	3.069	0.41833	483.4
32.8473	0.8310	-0.1485	0.84421	0.39642	5.940	3.105	0.42017	485.6
32.1789	0.8326	-0.1303	0.84277	0.40643	6.024	3.136	0.42177	487.5
31.5105	0.8340	-0.1121	0.84153	0.41641	6.097	3.164	0.42316	489.2
30.8421	0.8352	-0.0938	0.84047	0.42644	6.160	3.187	0.42435	490.6
30.1737	0.8362	-0.0755	0.83958	0.43661	6.212	3.207	0.42534	491.8
29.5052	0.8369	-0.0570	0.83887	0.44697	6.254	3.222	0.42613	492.7
28.8368	0.8375	-0.0383	0.83834	0.45760	6.286	3.234	0.42672	493.4
28.1684	0.8378	-0.0193	0.83800	0.46857	6.306	3.241	0.42709	493.8
27.5000	0.8379	0.0000	0.83787	0.47997	6.313	3.244	0.42722	494.0

CONE SEMI-ANGLE=27.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 5239.3 FT./SEC. ENTROPY=31.8722

MACH NR.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

FLW PROPERTIES

FLW PROPERTIES

SHOCK ANGLE=32.7858 ENTRPHY=32.7442
 GAMMA (AVG.)=1.3759 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=31.9833 ENTRPHY=33.1558
 GAMMA (AVG.)=1.3604 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
32.7858	0.8407	-0.1502	0.85397	0.39546	8.417	3.606	0.36271	592.5
32.2572	0.8420	-0.1351	0.85274	0.40392	8.550	3.647	0.36403	595.0
31.7286	0.8431	-0.1201	0.85165	0.41223	8.668	3.684	0.36519	597.3
31.2001	0.8442	-0.1053	0.85070	0.42044	8.772	3.716	0.36621	599.2
30.6715	0.8450	-0.0905	0.84988	0.42863	8.862	3.744	0.36708	600.9
30.1429	0.8458	-0.0757	0.84918	0.43684	8.939	3.767	0.36783	602.3
29.6143	0.8464	-0.0608	0.84860	0.44513	9.003	3.787	0.36845	603.5
29.0857	0.8469	-0.0459	0.84814	0.45354	9.055	3.803	0.36894	604.4
28.5571	0.8472	-0.0308	0.84779	0.46212	9.093	3.814	0.36930	605.1
28.0286	0.8474	-0.0155	0.84758	0.47091	9.116	3.821	0.36952	605.6
27.5000	0.8475	0.0000	0.84749	0.47997	9.125	3.824	0.36961	605.7

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
31.9833	0.8482	-0.1291	0.85795	0.40719	11.694	4.104	0.32977	723.4
31.5349	0.8491	-0.1161	0.85703	0.41450	11.856	4.145	0.33022	726.0
31.0866	0.8500	-0.1032	0.85622	0.42169	12.000	4.182	0.33106	728.4
30.6383	0.8507	-0.0905	0.85552	0.42880	12.126	4.215	0.33179	730.4
30.1899	0.8514	-0.0777	0.85491	0.43589	12.236	4.243	0.33242	732.1
29.7416	0.8519	-0.0649	0.85439	0.44300	12.330	4.267	0.33295	733.6
29.2933	0.8524	-0.0522	0.85396	0.45015	12.409	4.286	0.33360	734.8
28.8450	0.8527	-0.0393	0.85362	0.45739	12.471	4.302	0.33375	735.8
28.3966	0.8530	-0.0263	0.85337	0.46475	12.516	4.314	0.33401	736.5
27.9483	0.8531	-0.0132	0.85321	0.47226	12.545	4.321	0.33417	737.0
27.5000	0.8531	0.0000	0.85315	0.47997	12.555	4.324	0.33423	737.1

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=31.1045 ENTRØPY=34.0171
GAMMA (AVG.)=1.3319 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.1045	0.8562	-0.1053	0.86267	0.42050	20.038	4.905	0.28974	1036.9
30.7441	0.8568	-0.0947	0.86206	0.42648	20.268	4.948	0.29035	1039.8
30.3836	0.8574	-0.0842	0.86152	0.43238	20.473	4.985	0.29089	1042.4
30.0232	0.8579	-0.0738	0.86105	0.43823	20.653	5.018	0.29136	1044.7
29.6627	0.8583	-0.0633	0.86054	0.44406	20.810	5.047	0.29177	1046.7
29.3022	0.8587	-0.0529	0.86029	0.44990	20.944	5.071	0.29212	1048.4
28.9418	0.8590	-0.0424	0.86001	0.45576	21.055	5.091	0.29240	1049.7
28.5813	0.8592	-0.0319	0.85978	0.46167	21.142	5.107	0.29263	1050.8
28.2209	0.8593	-0.0214	0.85961	0.46766	21.206	5.119	0.29279	1051.6
27.8604	0.8594	-0.0107	0.85951	0.47375	21.246	5.126	0.29290	1052.1
27.5000	0.8595	0.0000	0.85947	0.47997	21.261	5.129	0.29293	1052.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=30.6367 ENTRØPY=34.8647
GAMMA (AVG.)=1.3134 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
30.6367	0.8604	-0.0924	0.86535	0.42778	30.767	5.518	0.26751	1415.4
30.3230	0.8609	-0.0831	0.86488	0.43304	31.079	5.560	0.26798	1418.8
30.0093	0.8613	-0.0738	0.86447	0.43823	31.357	5.598	0.26839	1421.8
29.6957	0.8617	-0.0647	0.86410	0.44338	31.602	5.632	0.26875	1424.5
29.3820	0.8620	-0.0555	0.86379	0.44851	31.814	5.660	0.26906	1426.7
29.0683	0.8623	-0.0463	0.86352	0.45364	31.996	5.685	0.26932	1428.7
28.7547	0.8625	-0.0372	0.86330	0.45879	32.146	5.705	0.26954	1430.3
28.4410	0.8627	-0.0280	0.86313	0.46398	32.264	5.721	0.26971	1431.5
28.1273	0.8628	-0.0187	0.86300	0.46923	32.350	5.733	0.26984	1432.4
27.8136	0.8629	-0.0094	0.86292	0.47455	32.404	5.740	0.26992	1433.0
27.5000	0.8629	0.0000	0.86289	0.47997	32.423	5.743	0.26994	1433.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=30.3521 ENTROPY=35.6697
 GAMMA (AVG.)=1.3026 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.3521	0.8629	-0.0844	0.86704	0.43229	43.882	5.989	0.25367	1859.8
30.0669	0.8633	-0.0759	0.86665	0.43709	44.290	6.032	0.25406	1863.8
29.7817	0.8637	-0.0675	0.86631	0.44184	44.653	6.070	0.25440	1867.3
29.4965	0.8640	-0.0591	0.86601	0.44655	44.973	6.104	0.25470	1870.4
29.2113	0.8643	-0.0507	0.86574	0.45124	45.251	6.132	0.25496	1873.1
28.9261	0.8645	-0.0423	0.86552	0.45594	45.488	6.157	0.25518	1875.4
28.6408	0.8647	-0.0339	0.86534	0.46065	45.683	6.177	0.25536	1877.2
28.3556	0.8648	-0.0255	0.86519	0.46540	45.838	6.193	0.25551	1878.7
28.0704	0.8649	-0.0171	0.86508	0.47019	45.950	6.205	0.25561	1879.8
27.7852	0.8650	-0.0086	0.86502	0.47504	46.020	6.212	0.25568	1880.4
27.5000	0.8650	0.0000	0.86499	0.47997	46.045	6.215	0.25570	1880.7

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=30.0669 ENTROPY=36.4902
 GAMMA (AVG.)=1.1446 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
30.0669	0.8654	-0.0765	0.86681	0.43657	59.357	6.547	0.22590	2291.3
29.8102	0.8658	-0.0688	0.86849	0.44099	59.865	6.594	0.22606	2294.0
29.5535	0.8660	-0.0611	0.86820	0.44535	60.314	6.636	0.22622	2296.5
29.2968	0.8663	-0.0535	0.86795	0.44966	60.710	6.673	0.22635	2298.5
29.0401	0.8665	-0.0459	0.86773	0.45395	61.052	6.704	0.22646	2300.4
28.7834	0.8667	-0.0383	0.86755	0.45823	61.343	6.731	0.22656	2301.8
28.5267	0.8669	-0.0307	0.86740	0.46251	61.582	6.754	0.22663	2303.0
28.2700	0.8670	-0.0231	0.86728	0.46681	61.771	6.771	0.22669	2304.0
28.0134	0.8671	-0.0154	0.86719	0.47114	61.908	6.784	0.22674	2304.7
27.7567	0.8671	-0.0077	0.86714	0.47552	61.993	6.791	0.22678	2305.1
27.5000	0.8671	-0.0000	0.86712	0.47996	62.023	6.794	0.22679	2305.3

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16766.7 FT./SEC. ENTRORPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=29.6651 ENTRORPY=37.2906
GAMMA (AVG.)=1.1162 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.6651	0.8689	-0.0649	0.87135	0.44315	77.272	7.621	0.20540	2497.4
29.4486	0.8692	-0.0584	0.87112	0.44690	77.827	7.670	0.20552	2499.0
29.2321	0.8694	-0.0519	0.87091	0.45059	78.320	7.713	0.20565	2500.3
29.0156	0.8695	-0.0454	0.87073	0.45426	78.754	7.750	0.20575	2501.7
28.7991	0.8697	-0.0389	0.87058	0.45790	79.130	7.782	0.20583	2503.1
28.5825	0.8698	-0.0325	0.87044	0.46154	79.449	7.811	0.20592	2503.7
28.3660	0.8699	-0.0260	0.87033	0.46518	79.711	7.834	0.20597	2504.4
28.1495	0.8700	-0.0196	0.87025	0.46883	79.918	7.851	0.20603	2505.3
27.9330	0.8701	-0.0131	0.87019	0.47250	80.068	7.865	0.20606	2505.6
27.7165	0.8701	-0.0066	0.87015	0.47621	80.160	7.873	0.20608	2505.9
27.5000	0.8701	-0.0000	0.87013	0.47996	80.193	7.876	0.20610	2505.9

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRORPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=29.3634 ENTRORPY=38.0933
GAMMA (AVG.)=1.1158 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.3634	0.8715	-0.0561	0.87333	0.44818	97.581	8.737	0.19094	2679.3
29.1771	0.8717	-0.0505	0.87316	0.45140	98.181	8.785	0.19105	2680.9
28.9907	0.8718	-0.0448	0.87300	0.45459	98.715	8.827	0.19116	2682.1
28.8044	0.8720	-0.0392	0.87287	0.45776	99.184	8.864	0.19125	2683.3
28.6180	0.8721	-0.0337	0.87275	0.46091	99.592	8.896	0.19132	2684.6
28.4317	0.8722	-0.0281	0.87265	0.46405	99.937	8.923	0.19138	2685.2
28.2453	0.8723	-0.0225	0.87257	0.46720	100.222	8.946	0.19144	2686.0
28.0590	0.8723	-0.0169	0.87251	0.47036	100.445	8.962	0.19148	2686.8
27.8727	0.8724	-0.0113	0.87246	0.47353	100.607	8.976	0.19151	2687.1
27.6863	0.8724	-0.0057	0.87243	0.47673	100.707	8.984	0.19153	2687.2
27.5000	0.8724	-0.0000	0.87242	0.47996	100.742	8.986	0.19153	2687.5

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=29.1483 ENTROPY=38.9067
GAMMA (AVG.)=1.1336 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.1483	0.8734	-0.0498	0.87478	0.45180	120.276	9.784	0.18129	2863.4
28.9835	0.8735	-0.0448	0.87464	0.45464	120.926	9.831	0.18139	2864.8
28.8186	0.8736	-0.0398	0.87452	0.45747	121.506	9.872	0.18149	2866.1
28.6538	0.8737	-0.0348	0.87441	0.46027	122.017	9.908	0.18157	2867.3
28.4890	0.8738	-0.0299	0.87432	0.46307	122.460	9.941	0.18164	2868.2
28.3241	0.8739	-0.0249	0.87424	0.46586	122.836	9.966	0.18170	2869.2
28.1593	0.8740	-0.0199	0.87418	0.46865	123.145	9.989	0.18174	2869.8
27.9945	0.8740	-0.0150	0.87413	0.47145	123.388	10.006	0.18178	2870.5
27.8296	0.8740	-0.0100	0.87409	0.47427	123.564	10.018	0.18181	2870.8
27.6648	0.8741	-0.0050	0.87407	0.47710	123.672	10.025	0.18183	2871.2
27.5000	0.8741	-0.0000	0.87406	0.47996	123.711	10.029	0.18183	2871.2

CONE SEMI-ANGLE=27.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=29.0151 ENTROPY=39.8114
GAMMA (AVG.)=1.1678 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
29.0151	0.8745	-0.0458	0.87569	0.45406	145.356	10.586	0.17655	3091.3
28.8636	0.8746	-0.0412	0.87557	0.45667	146.076	10.631	0.17734	3092.9
28.7121	0.8747	-0.0366	0.87547	0.45927	146.717	10.670	0.17742	3094.6
28.5606	0.8748	-0.0321	0.87538	0.46184	147.283	10.706	0.17751	3095.9
28.4090	0.8749	-0.0275	0.87530	0.46442	147.774	10.736	0.17757	3097.3
28.2575	0.8749	-0.0229	0.87524	0.46699	148.191	10.763	0.17763	3098.0
28.1060	0.8750	-0.0184	0.87518	0.46956	148.534	10.784	0.17768	3098.9
27.9545	0.8750	-0.0138	0.87514	0.47214	148.803	10.801	0.17771	3099.6
27.8030	0.8751	-0.0092	0.87511	0.47473	148.998	10.813	0.17774	3100.0
27.6515	0.8751	-0.0046	0.87509	0.47734	149.118	10.820	0.17776	3100.3
27.5000	0.8751	0.0000	0.87508	0.47997	149.160	10.823	0.17777	3100.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 25148.6 FT./SEC. ENTRAPPY=31.8722

FLBW PROPERTIES

SHOCK ANGLE=28.9190 ENTRAPPY=40.5916
 GAMMA (AVG.)=1.2036 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.4190	0.8753	-0.0430	0.87636	0.45569	172.819	11.257	0.17357	3352.7
26.7771	0.8754	-0.0386	0.87626	0.45813	173.618	11.301	0.17367	3354.8
26.6352	0.8755	-0.0344	0.87617	0.46056	174.331	11.341	0.17375	3356.4
26.4933	0.8756	-0.0301	0.87609	0.46298	174.960	11.375	0.17383	3358.1
26.3514	0.8756	-0.0259	0.87602	0.46539	175.506	11.403	0.17389	3359.8
26.2095	0.8757	-0.0215	0.87596	0.46780	175.969	11.430	0.17396	3360.5
26.0676	0.8757	-0.0172	0.87591	0.47021	176.351	11.449	0.17400	3361.9
27.9237	0.8758	-0.0129	0.87587	0.47263	176.650	11.467	0.17403	3362.4
27.7838	0.8758	-0.0086	0.87585	0.47506	176.867	11.478	0.17406	3363.2
27.6419	0.8758	-0.0043	0.87583	0.47750	177.000	11.485	0.17408	3363.6
27.5000	0.8758	0.0000	0.87582	0.47997	177.047	11.488	0.17409	3363.4

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 27244.3 FT./SEC. ENTRAPPY=31.8722

FLBW PROPERTIES

SHOCK ANGLE=28.9660 ENTRAPPY=41.6956
 GAMMA (AVG.)=1.2316 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
26.9668	0.8749	-0.0444	0.87602	0.45490	202.643	10.917	0.17837	3898.2
26.8201	0.8750	-0.0399	0.87592	0.45742	203.611	10.959	0.17846	3901.4
26.6734	0.8751	-0.0355	0.87582	0.45992	204.675	10.994	0.17858	3904.9
26.5268	0.8752	-0.0311	0.87574	0.46241	205.238	11.026	0.17866	3907.8
26.3801	0.8753	-0.0266	0.87566	0.46490	205.900	11.055	0.17874	3910.0
26.2334	0.8753	-0.0222	0.87560	0.46739	206.462	11.078	0.17880	3912.3
26.0867	0.8754	-0.0178	0.87555	0.46988	206.925	11.097	0.17885	3914.1
27.9400	0.8754	-0.0134	0.87551	0.47238	207.288	11.112	0.17889	3915.3
27.7933	0.8754	-0.0089	0.87548	0.47489	207.551	11.123	0.17892	3916.4
27.6467	0.8755	-0.0045	0.87546	0.47741	207.712	11.130	0.17894	3916.9
27.5000	0.8755	-0.0000	0.87546	0.47996	207.770	11.132	0.17895	3917.2

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=28.9355 ENTRALPY=42.5090
GAMMA (AVG.)=1.1954 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.9355	0.8752	-0.0435	0.87624	0.45541	234.857	11.134	0.17389	4382.4
28.7920	0.8753	-0.0391	0.87614	0.45788	235.957	11.179	0.17396	4385.0
28.6484	0.8754	-0.0348	0.87605	0.46033	236.940	11.219	0.17401	4387.2
28.5049	0.8754	-0.0304	0.87597	0.46278	237.807	11.255	0.17406	4389.1
28.3613	0.8755	-0.0261	0.87590	0.46521	238.559	11.285	0.17411	4390.8
28.2178	0.8756	-0.0218	0.87584	0.46765	239.198	11.312	0.17414	4392.3
28.0742	0.8756	-0.0174	0.87579	0.47009	239.724	11.333	0.17417	4393.4
27.9307	0.8757	-0.0131	0.87575	0.47254	240.137	11.350	0.17419	4394.3
27.7871	0.8757	-0.0087	0.87572	0.47500	240.436	11.362	0.17421	4395.0
27.6435	0.8757	-0.0044	0.87570	0.47747	240.619	11.370	0.17422	4395.4
27.5000	0.8757	-0.0000	0.87570	0.47996	240.684	11.373	0.17423	4395.5

CONE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=28.8598 ENTRALPY=43.3241
GAMMA (AVG.)=1.1683 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
28.8598	0.8758	-0.0412	0.87677	0.45666	269.470	11.709	0.16741	4692.1
28.7238	0.8759	-0.0371	0.87668	0.45901	270.668	11.754	0.16747	4694.4
28.5879	0.8760	-0.0330	0.87660	0.46134	271.736	11.795	0.16752	4696.3
28.4519	0.8760	-0.0288	0.87652	0.46366	272.679	11.831	0.16756	4697.8
28.3159	0.8761	-0.0247	0.87646	0.46598	273.497	11.862	0.16760	4699.3
28.1799	0.8762	-0.0206	0.87641	0.46829	274.191	11.888	0.16764	4700.5
28.0439	0.8762	-0.0165	0.87636	0.47060	274.763	11.910	0.16766	4701.5
27.9079	0.8762	-0.0124	0.87633	0.47293	275.211	11.926	0.16768	4702.4
27.7720	0.8763	-0.0083	0.87630	0.47526	275.535	11.939	0.16770	4702.9
27.6360	0.8763	-0.0042	0.87629	0.47760	275.733	11.946	0.16771	4703.3
27.5000	0.8763	-0.0000	0.87628	0.47996	275.805	11.949	0.16771	4703.4

CBNE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 36675.1 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=28.7062 ENTRBPY=45.5939
 GAMMA (AVG.)=1.1305 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
28.7062	0.8771	-0.0367	0.87786	0.45924	366.457	13.100	0.15532	5320.5
28.5855	0.8772	-0.0330	0.87779	0.46133	367.902	13.146	0.15536	5322.1
28.4649	0.8772	-0.0293	0.87772	0.46340	369.191	13.187	0.15540	5323.6
28.3443	0.8773	-0.0257	0.87766	0.46547	370.328	13.222	0.15544	5325.1
28.2237	0.8773	-0.0220	0.87761	0.46753	371.314	13.254	0.15547	5326.1
28.1031	0.8774	-0.0183	0.87757	0.46959	372.151	13.280	0.15550	5327.1
27.9825	0.8774	-0.0147	0.87754	0.47165	372.839	13.302	0.15552	5327.8
27.8618	0.8774	-0.0110	0.87751	0.47371	373.379	13.319	0.15553	5328.4
27.7412	0.8775	-0.0074	0.87749	0.47578	373.768	13.331	0.15555	5329.0
27.6206	0.8775	-0.0037	0.87748	0.47787	374.007	13.339	0.15555	5329.3
27.5000	0.8775	-0.0000	0.87747	0.47996	374.092	13.342	0.15556	5329.4

CBNE SEMI-ANGLE=27.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 41914.3 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=28.5770 ENTRBPY=47.9657
 GAMMA (AVG.)=1.1183 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
28.5770	0.8782	-0.0328	0.87879	0.46143	478.302	14.582	0.14615	5752.8
28.4693	0.8782	-0.0295	0.87873	0.46329	480.063	14.627	0.14619	5754.2
28.3616	0.8783	-0.0262	0.87868	0.46515	481.564	14.668	0.14622	5755.4
28.2539	0.8783	-0.0230	0.87863	0.46700	482.887	14.704	0.14625	5756.8
28.1462	0.8784	-0.0197	0.87859	0.46884	484.035	14.735	0.14628	5757.6
28.0385	0.8784	-0.0164	0.87856	0.47068	485.010	14.761	0.14630	5758.5
27.9308	0.8784	-0.0131	0.87853	0.47253	485.810	14.783	0.14632	5759.2
27.8231	0.8785	-0.0099	0.87851	0.47438	486.438	14.800	0.14634	5759.7
27.7154	0.8785	-0.0066	0.87849	0.47623	486.891	14.812	0.14634	5760.1
27.6077	0.8785	-0.0033	0.87848	0.47809	487.168	14.820	0.14635	5760.3
27.5000	0.8785	-0.0000	0.87848	0.47996	487.267	14.823	0.14635	5760.4

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=39.7710 ENTRØPY=32.1501
GAMMA (AVG.)=1.3943 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.7710	0.7685	-0.2509	0.80845	0.37852	4.133	2.549	0.55163	411.6
38.7939	0.7725	-0.2258	0.80487	0.39268	4.226	2.590	0.55627	414.2
37.8168	0.7761	-0.2011	0.80177	0.40648	4.308	2.625	0.56030	416.5
36.8397	0.7793	-0.1766	0.79907	0.42013	4.379	2.656	0.56383	418.4
35.8626	0.7821	-0.1521	0.79673	0.43381	4.441	2.683	0.56691	420.1
34.8855	0.7844	-0.1276	0.79472	0.44764	4.494	2.707	0.56956	421.5
33.9084	0.7863	-0.1028	0.79304	0.46176	4.540	2.726	0.57179	422.7
32.9313	0.7878	-0.0778	0.79167	0.47629	4.576	2.742	0.57359	423.7
31.9542	0.7889	-0.0524	0.79065	0.49134	4.604	2.754	0.57495	424.4
30.9771	0.7895	-0.0265	0.78998	0.50706	4.621	2.761	0.57582	424.8
30.0000	0.7897	-0.0000	0.78972	0.52360	4.628	2.764	0.57614	425.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=36.6901 ENTRØPY=32.4926
GAMMA (AVG.)=1.3847 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.8901	0.7997	-0.1857	0.82102	0.41568	6.574	3.232	0.44671	516.3
36.2010	0.8018	-0.1671	0.81906	0.42640	6.691	3.273	0.44898	518.8
35.5120	0.8037	-0.1487	0.81734	0.43690	6.793	3.310	0.45096	521.0
34.8230	0.8054	-0.1304	0.81585	0.44730	6.883	3.341	0.45269	523.0
34.1340	0.8068	-0.1121	0.81455	0.45768	6.962	3.369	0.45419	524.6
33.4450	0.8080	-0.0938	0.81345	0.46812	7.029	3.392	0.45548	526.0
32.7560	0.8090	-0.0755	0.81253	0.47869	7.086	3.412	0.45655	527.2
32.0670	0.8098	-0.0570	0.81179	0.48945	7.131	3.428	0.45740	528.1
31.3780	0.8103	-0.0383	0.81124	0.50047	7.164	3.439	0.45803	528.8
30.6890	0.8107	-0.0193	0.81089	0.51183	7.185	3.446	0.45843	529.2
30.0000	0.8108	0.0000	0.81076	0.52360	7.193	3.449	0.45858	529.4

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=35.5046 ENTROPY=32.9134
GAMMA (AVG.)=1.3695 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
35.5046	0.8140	-0.1519	0.82808	0.43522	9.718	3.824	0.39080	645.1
34.9541	0.8154	-0.1366	0.82677	0.44405	9.863	3.865	0.39223	647.7
34.4037	0.8166	-0.1215	0.82562	0.45273	9.991	3.902	0.39349	650.0
33.8532	0.8177	-0.1065	0.82462	0.46133	10.104	3.934	0.39458	651.9
33.3028	0.8186	-0.0915	0.82375	0.46991	10.202	3.962	0.39553	653.6
32.7523	0.8194	-0.0765	0.82301	0.47852	10.286	3.986	0.39633	655.1
32.2018	0.8201	-0.0615	0.82239	0.48720	10.356	4.005	0.39700	656.3
31.6514	0.8206	-0.0463	0.82190	0.49601	10.411	4.021	0.39754	657.2
31.1009	0.8210	-0.0311	0.82154	0.50498	10.453	4.033	0.39793	657.9
30.5504	0.8212	-0.0156	0.82131	0.51416	10.478	4.040	0.39817	658.4
30.0000	0.8212	0.0000	0.82122	0.52360	10.488	4.043	0.39826	658.5

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=6.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.7053 ENTROPY=33.3698
GAMMA (AVG.)=1.3525 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.7053	0.8221	-0.1316	0.83254	0.44698	13.561	4.326	0.35594	795.7
34.2347	0.8231	-0.1184	0.83155	0.45466	13.739	4.368	0.35697	798.4
33.7642	0.8240	-0.1053	0.83069	0.46223	13.897	4.405	0.35787	800.8
33.2937	0.8248	-0.0922	0.82993	0.46972	14.036	4.438	0.35867	802.9
32.8231	0.8255	-0.0792	0.82928	0.47720	14.157	4.466	0.35936	804.7
32.3526	0.8261	-0.0662	0.82872	0.48469	14.260	4.490	0.35994	806.2
31.8821	0.8266	-0.0531	0.82826	0.49223	14.346	4.510	0.36042	807.5
31.4116	0.8269	-0.0400	0.82789	0.49986	14.414	4.526	0.36081	808.5
30.9410	0.8272	-0.0268	0.82762	0.50761	14.464	4.537	0.36108	809.2
30.4705	0.8273	-0.0135	0.82745	0.51551	14.495	4.545	0.36126	809.6
30.0000	0.8274	0.0000	0.82738	0.52360	14.506	4.547	0.36132	809.8

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=33.8235 ENTROPY=34.3032
GAMMA (AVG.)=1.3247 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.8235	0.8307	-0.1086	0.83781	0.46040	23.348	5.128	0.31491	1155.8
33.4412	0.8314	-0.0976	0.83714	0.46675	23.604	5.170	0.31559	1158.9
33.0588	0.8320	-0.0868	0.83655	0.47302	23.832	5.208	0.31618	1161.6
32.6764	0.8326	-0.0760	0.83603	0.47924	24.032	5.241	0.31670	1164.0
32.2941	0.8330	-0.0653	0.83559	0.48544	24.207	5.269	0.31715	1166.1
31.9117	0.8334	-0.0545	0.83521	0.49165	24.355	5.294	0.31754	1167.8
31.5294	0.8337	-0.0437	0.83489	0.49788	24.479	5.314	0.31785	1169.3
31.1470	0.8340	-0.0329	0.83464	0.50417	24.576	5.330	0.31810	1170.4
30.7647	0.8342	-0.0220	0.83446	0.51054	24.647	5.342	0.31828	1171.3
30.3823	0.8343	-0.0111	0.83435	0.51701	24.691	5.349	0.31839	1171.8
30.0000	0.8343	0.0000	0.83430	0.52360	24.707	5.352	0.31844	1172.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=33.3536 ENTROPY=35.2055
GAMMA (AVG.)=1.3082 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.3536	0.8353	-0.0960	0.84078	0.46774	35.933	5.729	0.29210	1592.1
33.0183	0.8358	-0.0863	0.84026	0.47336	36.283	5.772	0.29262	1595.8
32.6829	0.8363	-0.0767	0.83980	0.47891	36.595	5.810	0.29307	1599.0
32.3475	0.8367	-0.0672	0.83939	0.48442	36.870	5.843	0.29348	1601.8
32.0122	0.8371	-0.0577	0.83904	0.48992	37.108	5.872	0.29382	1604.2
31.6768	0.8374	-0.0482	0.83875	0.49542	37.311	5.896	0.29412	1606.3
31.3414	0.8376	-0.0386	0.83850	0.50094	37.479	5.917	0.29436	1608.0
31.0061	0.8378	-0.0291	0.83831	0.50649	37.612	5.933	0.29455	1609.3
30.6707	0.8379	-0.0194	0.83817	0.51211	37.709	5.944	0.29469	1610.3
30.3353	0.8380	-0.0098	0.83808	0.51781	37.769	5.952	0.29478	1610.9
30.0000	0.8380	0.0000	0.83804	0.52360	37.791	5.954	0.29481	1611.1

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.0696 ENTRØPY=36.0524
GAMMA (AVG.)=1.2991 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.0696	0.8380	-0.0883	0.84264	0.47225	51.316	6.183	0.27804	2106.8
32.7626	0.8384	-0.0794	0.84220	0.47741	51.777	6.226	0.27847	2111.2
32.4557	0.8388	-0.0706	0.84181	0.48252	52.188	6.264	0.27886	2115.0
32.1487	0.8392	-0.0618	0.84147	0.48760	52.549	6.297	0.27920	2118.4
31.8417	0.8395	-0.0530	0.84117	0.49266	52.863	6.326	0.27949	2121.3
31.5348	0.8398	-0.0443	0.84092	0.49772	53.130	6.350	0.27974	2123.8
31.2278	0.8400	-0.0355	0.84071	0.50280	53.351	6.371	0.27994	2125.8
30.9209	0.8401	-0.0267	0.84055	0.50791	53.526	6.387	0.28010	2127.4
30.6139	0.8402	-0.0179	0.84043	0.51307	53.653	6.398	0.28022	2128.5
30.3069	0.8403	-0.0090	0.84035	0.51829	53.731	6.406	0.28029	2129.3
30.0000	0.8403	0.0000	0.84032	0.52360	53.760	6.408	0.28032	2129.5

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=32.5927 ENTRØPY=36.9567
GAMMA (AVG.)=1.1221 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.5927	0.8425	-0.0754	0.84588	0.47963	69.479	7.147	0.23798	2419.4
32.3334	0.8428	-0.0678	0.84536	0.48410	70.017	7.196	0.23817	2421.2
32.0742	0.8431	-0.0602	0.84482	0.48852	70.494	7.239	0.23834	2422.7
31.8149	0.8434	-0.0527	0.84430	0.49289	70.913	7.278	0.23847	2424.0
31.5556	0.8436	-0.0452	0.84380	0.49724	71.276	7.311	0.23859	2425.1
31.2963	0.8438	-0.0377	0.84332	0.50158	71.584	7.339	0.23870	2426.0
31.0371	0.8439	-0.0302	0.84287	0.50592	71.838	7.362	0.23879	2426.8
30.7778	0.8440	-0.0227	0.84243	0.51028	72.038	7.380	0.23885	2427.5
30.5185	0.8441	-0.0152	0.84200	0.51467	72.183	7.393	0.23890	2428.0
30.2592	0.8442	-0.0076	0.84157	0.51910	72.273	7.401	0.23892	2428.2
30.0000	0.8442	-0.0000	0.84114	0.52359	72.305	7.404	0.23893	2428.3

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=32.1765 ENTROPY=37.6226
GAMMA (AVG.)=1.1137 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
32.1765	0.8464	-0.0637	0.84880	0.48651	90.487	8.365	0.21770	2619.2
31.9588	0.8466	-0.0372	0.84857	0.49027	91.072	8.414	0.21786	2620.5
31.7412	0.8468	-0.0509	0.84836	0.49399	91.592	8.455	0.21799	2622.2
31.5235	0.8470	-0.0445	0.84819	0.49769	92.049	8.492	0.21810	2623.4
31.3059	0.8472	-0.0382	0.84803	0.50136	92.445	8.525	0.21819	2624.4
31.0882	0.8473	-0.0318	0.84790	0.50503	92.782	8.552	0.21828	2625.3
30.8706	0.8474	-0.0255	0.84779	0.50870	93.059	8.575	0.21835	2626.1
30.6529	0.8475	-0.0192	0.84771	0.51238	93.276	8.592	0.21840	2626.7
30.4353	0.8475	-0.0128	0.84765	0.51608	93.434	8.605	0.21845	2627.0
30.2176	0.8476	-0.0064	0.84761	0.51981	93.531	8.614	0.21846	2627.1
30.0000	0.8476	-0.0000	0.84759	0.52359	93.566	8.616	0.21848	2627.3

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.8878 ENTROPY=38.6992
GAMMA (AVG.)=1.1275 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.8878	0.8491	-0.0554	0.85089	0.49136	114.299	9.531	0.20430	2815.0
31.6900	0.8493	-0.0498	0.85072	0.49462	114.936	9.577	0.20443	2816.5
31.5102	0.8494	-0.0443	0.85056	0.49785	115.303	9.619	0.20454	2818.0
31.3214	0.8495	-0.0388	0.85043	0.50106	116.002	9.655	0.20464	2819.2
31.1327	0.8497	-0.0332	0.85031	0.50426	116.436	9.687	0.20472	2820.1
30.9439	0.8498	-0.0277	0.85021	0.50745	116.803	9.713	0.20479	2821.1
30.7551	0.8498	-0.0222	0.85013	0.51065	117.106	9.736	0.20487	2821.5
30.5663	0.8499	-0.0167	0.85006	0.51386	117.344	9.753	0.20491	2822.2
30.3775	0.8499	-0.0111	0.85002	0.51708	117.516	9.766	0.20494	2822.6
30.1887	0.8500	-0.0056	0.84999	0.52032	117.621	9.774	0.20496	2822.8
30.0000	0.8500	0.0000	0.84998	0.52360	117.659	9.776	0.20498	2822.9

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRØPV=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.6951 ENTRØPV=39.5939
GAMMA (AVG.)=1.1589 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6951	0.8509	-0.0499	0.85231	0.49462	140.906	10.531	0.19646	3036.2
31.5256	0.8510	-0.0449	0.85217	0.49754	141.608	10.576	0.19659	3037.8
31.3561	0.8511	-0.0399	0.85205	0.50044	142.234	10.617	0.19668	3039.1
31.1866	0.8512	-0.0349	0.85194	0.50332	142.785	10.652	0.19678	3040.6
31.0171	0.8513	-0.0299	0.85185	0.50620	143.264	10.683	0.19686	3041.6
30.8476	0.8514	-0.0250	0.85177	0.50907	143.670	10.710	0.19693	3042.4
30.6780	0.8515	-0.0200	0.85170	0.51195	144.005	10.730	0.19698	3043.4
30.5085	0.8515	-0.0150	0.85165	0.51484	144.267	10.748	0.19702	3043.7
30.3390	0.8515	-0.0100	0.85161	0.51774	144.457	10.760	0.19706	3044.2
30.1695	0.8516	-0.0050	0.85159	0.52066	144.574	10.767	0.19707	3044.6
30.0000	0.8516	-0.0000	0.85158	0.52360	144.616	10.770	0.19708	3044.7

CONE SEMI-ANGLE=30.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRØPV=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.5816 ENTRØPV=40.5032
GAMMA (AVG.)=1.1998 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5816	0.8519	-0.0466	0.85317	0.49655	170.309	11.237	0.19318	3321.1
31.4234	0.8520	-0.0419	0.85305	0.49927	171.098	11.280	0.19329	3323.3
31.2653	0.8521	-0.0373	0.85294	0.50197	171.801	11.319	0.19340	3325.0
31.1071	0.8522	-0.0326	0.85284	0.50466	172.422	11.353	0.19348	3326.5
30.9490	0.8523	-0.0280	0.85276	0.50735	172.961	11.384	0.19356	3327.7
30.7908	0.8524	-0.0233	0.85269	0.51003	173.419	11.409	0.19363	3328.9
30.6326	0.8524	-0.0187	0.85263	0.51272	173.796	11.430	0.19368	3329.7
30.4745	0.8525	-0.0140	0.85259	0.51542	174.092	11.445	0.19372	3330.8
30.3163	0.8525	-0.0094	0.85255	0.51812	174.306	11.457	0.19375	3331.4
30.1581	0.8525	-0.0047	0.85253	0.52085	174.437	11.465	0.19378	3331.4
30.0000	0.8525	-0.0000	0.85252	0.52360	174.484	11.467	0.19378	3331.8

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.6315 ENTROPY=41.6901
GAMMA (AVG.)=1.2316 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.6315	0.8514	-0.0480	0.85279	0.49573	202.492	10.921	0.19864	3894.7
31.4684	0.8516	-0.0432	0.85266	0.49853	203.458	10.962	0.19878	3898.1
31.3052	0.8517	-0.0384	0.85255	0.50131	204.321	10.997	0.19889	3901.6
31.1421	0.8518	-0.0336	0.85244	0.50408	205.083	11.030	0.19899	3904.4
30.9789	0.8519	-0.0288	0.85236	0.50685	205.744	11.058	0.19908	3906.8
30.8157	0.8519	-0.0241	0.85228	0.50961	206.305	11.081	0.19915	3908.8
30.6526	0.8520	-0.0193	0.85222	0.51238	206.768	11.100	0.19921	3910.7
30.4894	0.8520	-0.0145	0.85217	0.51516	207.131	11.115	0.19926	3912.1
30.3263	0.8521	-0.0097	0.85214	0.51795	207.393	11.126	0.19929	3913.0
30.1631	0.8521	-0.0048	0.85212	0.52076	207.554	11.134	0.19931	3913.3
30.0000	0.8521	-0.0000	0.85211	0.52360	207.612	11.136	0.19932	3913.8

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=31.5895 ENTROPY=42.5650
GAMMA (AVG.)=1.1927 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
31.5895	0.8518	-0.0468	0.85311	0.49641	237.470	11.184	0.19298	4407.5
31.4305	0.8519	-0.0421	0.85299	0.49914	238.577	11.229	0.19306	4410.1
31.2716	0.8521	-0.0375	0.85288	0.50186	239.566	11.269	0.19313	4412.2
31.1126	0.8521	-0.0328	0.85278	0.50457	240.438	11.305	0.19318	4414.1
30.9537	0.8522	-0.0281	0.85270	0.50727	241.195	11.335	0.19324	4415.8
30.7947	0.8523	-0.0234	0.85262	0.50997	241.838	11.362	0.19328	4417.1
30.6358	0.8524	-0.0188	0.85257	0.51267	242.368	11.383	0.19331	4418.3
30.4768	0.8524	-0.0141	0.85252	0.51538	242.783	11.400	0.19334	4419.3
30.3179	0.8524	-0.0094	0.85249	0.51810	243.083	11.412	0.19336	4419.8
30.1589	0.8525	-0.0047	0.85247	0.52084	243.267	11.420	0.19338	4420.2
30.0000	0.8525	-0.0000	0.85246	0.52360	243.333	11.422	0.19338	4420.5

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NØ = 28.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=31.5008 ENTRØPY=43.4662
GAMMA (AVG.)=1.1649 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.5008	0.8526	-0.0443	0.85378	0.49788	275.256	11.794	0.18542	4740.1
31.3508	0.8527	-0.0399	0.85367	0.50047	276.470	11.839	0.18548	4742.1
31.2007	0.8528	-0.0354	0.85357	0.50304	277.553	11.880	0.18555	4744.0
31.0506	0.8529	-0.0310	0.85349	0.50560	278.508	11.915	0.18560	4745.7
30.9005	0.8530	-0.0266	0.85341	0.50816	279.337	11.947	0.18565	4747.1
30.7504	0.8531	-0.0222	0.85335	0.51071	280.041	11.973	0.18568	4748.2
30.6003	0.8531	-0.0178	0.85330	0.51327	280.620	11.995	0.18572	4749.3
30.4502	0.8532	-0.0133	0.85326	0.51583	281.074	12.012	0.18574	4749.9
30.3002	0.8532	-0.0089	0.85323	0.51840	281.403	12.024	0.18576	4750.6
30.1501	0.8532	-0.0045	0.85321	0.52099	281.604	12.031	0.18577	4751.0
30.0000	0.8532	-0.0000	0.85320	0.52360	281.676	12.034	0.18577	4751.0

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NØ = 30.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=31.4246 ENTRØPY=44.4402
GAMMA (AVG.)=1.1460 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.4246	0.8533	-0.0421	0.85436	0.49916	315.847	12.381	0.17925	5035.0
31.2822	0.8534	-0.0379	0.85426	0.50162	317.169	12.427	0.17931	5036.9
31.1397	0.8535	-0.0337	0.85418	0.50406	318.349	12.467	0.17937	5038.5
30.9972	0.8536	-0.0295	0.85410	0.50650	319.390	12.503	0.17941	5040.0
30.8548	0.8537	-0.0253	0.85403	0.50893	320.293	12.535	0.17946	5041.3
30.7123	0.8537	-0.0211	0.85397	0.51136	321.059	12.561	0.17949	5042.3
30.5698	0.8538	-0.0169	0.85393	0.51378	321.690	12.583	0.17952	5043.2
30.4274	0.8538	-0.0127	0.85389	0.51622	322.184	12.599	0.17954	5044.0
30.2849	0.8538	-0.0085	0.85386	0.51866	322.541	12.612	0.17956	5044.5
30.1424	0.8538	-0.0042	0.85385	0.52112	322.760	12.620	0.17957	5044.7
30.0000	0.8538	-0.0000	0.85384	0.52360	322.838	12.622	0.17957	5044.9

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NØ.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=31.2537 ENTRØPY=46.9572
GAMMA (AVG.)=1.1207 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.2537	0.8549	-0.0372	0.85568	0.50203	429.580	13.960	0.16649	5588.2
31.1284	0.8550	-0.0334	0.85561	0.50420	431.162	14.005	0.16654	5589.7
31.0030	0.8550	-0.0297	0.85554	0.50636	432.574	14.046	0.16658	5591.1
30.8776	0.8551	-0.0260	0.85546	0.50851	433.819	14.082	0.16662	5592.3
30.7522	0.8551	-0.0223	0.85542	0.51066	434.899	14.113	0.16665	5593.3
30.6268	0.8552	-0.0186	0.85538	0.51280	435.816	14.140	0.16668	5594.2
30.5015	0.8552	-0.0149	0.85534	0.51495	436.569	14.162	0.16671	5594.9
30.3761	0.8552	-0.0112	0.85531	0.51710	437.160	14.178	0.16672	5595.4
30.2507	0.8553	-0.0075	0.85529	0.51925	437.586	14.191	0.16674	5595.9
30.1253	0.8553	-0.0037	0.85528	0.52142	437.847	14.198	0.16674	5596.1
30.0000	0.8553	-0.0000	0.85528	0.52360	437.940	14.201	0.16675	5596.1

CONE SEMI-ANGLE=30.0
FREE STREAM CONDITIONS

MACH NØ.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=31.1211 ENTRØPY=49.5970
GAMMA (AVG.)=1.1212 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
31.1211	0.8561	-0.0333	0.85672	0.50429	560.825	15.521	0.15763	5989.1
31.0090	0.8561	-0.0300	0.85666	0.50623	562.668	15.566	0.15767	5990.5
30.8969	0.8562	-0.0266	0.85661	0.50816	564.314	15.606	0.15771	5991.8
30.7848	0.8562	-0.0233	0.85656	0.51009	565.765	15.641	0.15774	5993.0
30.6726	0.8563	-0.0200	0.85651	0.51201	567.025	15.673	0.15777	5993.9
30.5605	0.8563	-0.0167	0.85648	0.51393	568.093	15.699	0.15779	5994.7
30.4484	0.8563	-0.0133	0.85645	0.51585	568.972	15.721	0.15782	5995.3
30.3363	0.8564	-0.0100	0.85643	0.51778	569.659	15.737	0.15783	5996.0
30.2242	0.8564	-0.0067	0.85641	0.51971	570.156	15.750	0.15784	5996.3
30.1121	0.8564	-0.0033	0.85640	0.52165	570.459	15.757	0.15785	5996.6
30.0000	0.8564	0.0000	0.85639	0.52360	570.568	15.760	0.15785	5996.6

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=42.5639 ENTRØPY=32.2204
GAMMA (AVG.)=1.3926 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5639	0.7364	-0.2490	0.77740	0.41677	4.642	2.716	0.59345	433.9
41.5575	0.7405	-0.2242	0.77373	0.43137	4.740	2.757	0.59859	436.5
40.5511	0.7442	-0.1996	0.77053	0.44566	4.825	2.792	0.60309	438.7
39.5447	0.7475	-0.1753	0.76774	0.45985	4.900	2.823	0.60704	440.6
38.5383	0.7503	-0.1510	0.76533	0.47408	4.966	2.850	0.61049	442.2
37.5319	0.7527	-0.1266	0.76325	0.48848	5.023	2.874	0.61346	443.7
36.5255	0.7546	-0.1020	0.76151	0.50317	5.070	2.893	0.61596	444.8
35.5192	0.7562	-0.0771	0.76010	0.51827	5.109	2.909	0.61798	445.8
34.5128	0.7573	-0.0519	0.75905	0.53390	5.137	2.921	0.61950	446.5
33.5064	0.7579	-0.0263	0.75837	0.55017	5.156	2.928	0.62046	446.9
32.5000	0.7581	0.0000	0.75810	0.56723	5.163	2.931	0.62083	447.1

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRØPY=31.8722

FLØW PROPERTIES

SHØCK ANGLE=39.6614 ENTRØPY=32.6151
GAMMA (AVG.)=1.3605 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6614	0.7698	-0.1865	0.79203	0.45458	7.459	3.423	0.48110	553.2
38.9453	0.7720	-0.1678	0.78998	0.46573	7.583	3.464	0.48366	555.7
38.2291	0.7739	-0.1493	0.78819	0.47688	7.693	3.500	0.48585	557.9
37.5130	0.7757	-0.1309	0.78662	0.48755	7.790	3.532	0.48776	559.8
36.7968	0.7772	-0.1125	0.78526	0.49840	7.874	3.560	0.48942	561.5
36.0807	0.7784	-0.0942	0.78410	0.50932	7.946	3.583	0.49084	562.9
35.3645	0.7795	-0.0757	0.78313	0.52038	8.006	3.603	0.49203	564.1
34.6484	0.7803	-0.0571	0.78235	0.53163	8.054	3.619	0.49297	565.0
33.9323	0.7808	-0.0384	0.78178	0.54314	8.090	3.630	0.49367	565.7
33.2161	0.7812	-0.0193	0.78141	0.55499	8.113	3.638	0.49410	566.1
32.5000	0.7813	0.0000	0.78127	0.56723	8.121	3.640	0.49427	566.3

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=38.2701 ENTRØPY=33.0835
GAMMA (AVG.)=1.3631 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
38.2701	0.7851	-0.1539	0.80001	0.47432	11.090	4.023	0.42207	699.6
37.6931	0.7865	-0.1385	0.79862	0.48358	11.246	4.065	0.42364	702.3
37.1161	0.7878	-0.1232	0.79739	0.49270	11.385	4.102	0.42502	704.6
36.5391	0.7890	-0.1079	0.79632	0.50175	11.507	4.134	0.42623	706.6
35.9621	0.7900	-0.0927	0.79539	0.51078	11.614	4.162	0.42728	708.3
35.3851	0.7908	-0.0775	0.79460	0.51985	11.705	4.186	0.42818	709.3
34.8080	0.7915	-0.0623	0.79394	0.52899	11.780	4.206	0.42892	711.0
34.2310	0.7920	-0.0469	0.79342	0.53825	11.840	4.222	0.42951	712.0
33.6540	0.7924	-0.0315	0.79304	0.54768	11.885	4.233	0.42994	712.7
33.0770	0.7926	-0.0158	0.79279	0.55733	11.912	4.240	0.43021	713.1
32.5000	0.7927	0.0000	0.79270	0.56724	11.923	4.243	0.43031	713.3

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=37.4635 ENTRØPY=33.5808
GAMMA (AVG.)=1.3452 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
37.4635	0.7937	-0.1343	0.80500	0.48624	15.529	4.529	0.38537	870.4
36.9672	0.7948	-0.1208	0.80394	0.49434	15.724	4.571	0.38651	873.2
36.4708	0.7958	-0.1074	0.80301	0.50234	15.896	4.608	0.38752	875.7
35.9745	0.7966	-0.0941	0.80219	0.51026	16.048	4.641	0.38840	877.8
35.4781	0.7974	-0.0808	0.80148	0.51817	16.179	4.669	0.38916	879.6
34.9818	0.7980	-0.0676	0.80088	0.52610	16.292	4.693	0.38981	881.2
34.4854	0.7985	-0.0542	0.80038	0.53408	16.386	4.713	0.39035	882.5
33.9891	0.7989	-0.0408	0.79998	0.54215	16.460	4.729	0.39077	883.5
33.4927	0.7992	-0.0274	0.79969	0.55034	16.514	4.741	0.39108	884.3
32.9963	0.7994	-0.0138	0.79951	0.55869	16.548	4.748	0.39127	884.7
32.5000	0.7994	0.0000	0.79944	0.56723	16.561	4.751	0.39134	884.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.5696 ENTROPY=34.5793
GAMMA (AVG.)=1.3187 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.5696	0.8031	-0.1119	0.81087	0.49988	26.835	5.327	0.34251	1278.8
36.1626	0.8039	-0.1006	0.81014	0.50664	27.118	5.369	0.34326	1282.1
35.7557	0.8045	-0.0895	0.80949	0.51332	27.369	5.407	0.34393	1284.9
35.3487	0.8051	-0.0783	0.80892	0.51995	27.590	5.440	0.34451	1287.4
34.9417	0.8056	-0.0673	0.80843	0.52656	27.783	5.469	0.34502	1289.6
34.5348	0.8061	-0.0562	0.80802	0.53317	27.947	5.493	0.34544	1291.4
34.1278	0.8064	-0.0451	0.80767	0.53982	28.083	5.513	0.34580	1293.0
33.7209	0.8067	-0.0339	0.80740	0.54653	28.190	5.529	0.34608	1294.2
33.3139	0.8069	-0.0227	0.80720	0.55332	28.268	5.541	0.34628	1295.0
32.9069	0.8070	-0.0114	0.80707	0.56021	28.317	5.548	0.34641	1295.6
32.5000	0.8070	-0.0000	0.80702	0.56723	28.335	5.551	0.34645	1295.8

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.0946 ENTROPY=35.5301
GAMMA (AVG.)=1.3041 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.0946	0.8080	-0.0996	0.81415	0.50732	41.373	5.914	0.31895	1775.8
35.7351	0.8086	-0.0896	0.81357	0.51334	41.763	5.957	0.31953	1779.6
35.3756	0.8091	-0.0797	0.81306	0.51929	42.110	5.995	0.32005	1783.1
35.0162	0.8096	-0.0698	0.81261	0.52520	42.415	6.028	0.32051	1786.1
34.6567	0.8100	-0.0599	0.81222	0.53110	42.681	6.057	0.32090	1788.7
34.2973	0.8103	-0.0500	0.81189	0.53699	42.907	6.082	0.32123	1790.9
33.9378	0.8106	-0.0401	0.81162	0.54292	43.094	6.102	0.32151	1792.7
33.5783	0.8108	-0.0302	0.81140	0.54888	43.241	6.118	0.32172	1794.1
33.2189	0.8110	-0.0202	0.81124	0.55491	43.349	6.130	0.32188	1795.2
32.8594	0.8111	-0.0101	0.81114	0.56102	43.416	6.137	0.32198	1795.8
32.5000	0.8111	-0.0000	0.81111	0.56723	43.440	6.140	0.32202	1796.1

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=35.6887 ENTRØPY=36.4782
GAMMA (AVG.)=1.1458 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
35.6887	0.8122	-0.0892	0.81708	0.51344	59.115	6.537	0.28137	2286.3
35.3698	0.8127	-0.0802	0.81661	0.51891	59.621	6.583	0.28163	2289.1
35.0510	0.8131	-0.0713	0.81620	0.52430	60.069	6.625	0.28189	2291.7
34.7321	0.8134	-0.0624	0.81583	0.52964	60.463	6.662	0.28209	2293.7
34.4132	0.8138	-0.0535	0.81552	0.53495	60.805	6.693	0.28225	2295.5
34.0943	0.8140	-0.0447	0.81525	0.54025	61.095	6.720	0.28241	2297.1
33.7755	0.8142	-0.0358	0.81503	0.54556	61.334	6.742	0.28253	2298.3
33.4566	0.8144	-0.0269	0.81486	0.55090	61.522	6.759	0.28264	2299.4
33.1377	0.8145	-0.0180	0.81474	0.55628	61.659	6.773	0.28272	2299.9
32.8189	0.8146	-0.0090	0.81466	0.56172	61.743	6.780	0.28275	2300.4
32.5000	0.8146	0.0000	0.81463	0.56723	61.774	6.783	0.28277	2300.6

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=35.1143 ENTRØPY=37.4091
GAMMA (AVG.)=1.1149 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
35.1143	0.8180	-0.0739	0.82133	0.52281	80.132	7.788	0.25159	2524.8
34.8529	0.8183	-0.0664	0.82101	0.52732	80.694	7.837	0.25179	2526.4
34.5914	0.8186	-0.0590	0.82072	0.53178	81.192	7.879	0.25197	2528.0
34.3300	0.8189	-0.0516	0.82048	0.53620	81.631	7.917	0.25213	2529.1
34.0686	0.8191	-0.0443	0.82026	0.54060	82.011	7.949	0.25224	2530.4
33.8071	0.8192	-0.0369	0.82008	0.54498	82.334	7.978	0.25236	2531.1
33.5457	0.8194	-0.0296	0.81993	0.54938	82.600	8.000	0.25245	2531.9
33.2843	0.8195	-0.0222	0.81981	0.55379	82.809	8.017	0.25254	2532.9
33.0229	0.8196	-0.0149	0.81973	0.55823	82.960	8.031	0.25258	2533.1
32.7614	0.8196	-0.0075	0.81967	0.56270	83.053	8.039	0.25261	2533.2
32.5000	0.8197	0.0000	0.81965	0.56723	83.087	8.042	0.25264	2533.4

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.7075 ENTRPHY=38.3451
GAMMA (AVG.)=1.1195 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.7075	0.8221	-0.0627	0.82446	0.52958	104.389	9.074	0.23198	2735.4
34.4867	0.8223	-0.0564	0.82423	0.53339	105.003	9.120	0.23214	2737.4
34.2660	0.8225	-0.0501	0.82402	0.53716	105.550	9.162	0.23228	2738.5
34.0452	0.8227	-0.0439	0.82384	0.54091	106.032	9.199	0.23241	2739.7
33.8245	0.8228	-0.0376	0.82369	0.54464	106.450	9.232	0.23251	2740.6
33.6037	0.8230	-0.0314	0.82356	0.54837	106.804	9.258	0.23261	2741.7
33.3830	0.8231	-0.0251	0.82345	0.55210	107.096	9.281	0.23267	2742.2
33.1622	0.8231	-0.0189	0.82337	0.55584	107.325	9.298	0.23274	2742.9
32.9415	0.8232	-0.0126	0.82330	0.55960	107.492	9.311	0.23279	2743.2
32.7207	0.8232	-0.0063	0.82327	0.56340	107.594	9.318	0.23281	2743.5
32.5000	0.8233	-0.0000	0.82325	0.56722	107.630	9.321	0.23281	2743.6

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.4374 ENTRPHY=39.2982
GAMMA (AVG.)=1.1473 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.4374	0.8247	-0.0553	0.82659	0.53413	131.881	10.231	0.22018	2958.3
34.2437	0.8249	-0.0497	0.82641	0.53746	132.560	10.276	0.22032	2960.1
34.0499	0.8251	-0.0442	0.82626	0.54078	133.165	10.317	0.22044	2961.3
33.8562	0.8252	-0.0387	0.82612	0.54407	133.697	10.353	0.22055	2962.6
33.6624	0.8253	-0.0332	0.82600	0.54736	134.160	10.385	0.22065	2963.5
33.4687	0.8254	-0.0277	0.82590	0.55064	134.552	10.410	0.22073	2964.6
33.2749	0.8255	-0.0222	0.82581	0.55393	134.876	10.433	0.22080	2965.2
33.0812	0.8256	-0.0166	0.82575	0.55722	135.129	10.449	0.22086	2965.8
32.8875	0.8256	-0.0111	0.82570	0.56053	135.313	10.462	0.22090	2966.2
32.6937	0.8257	-0.0056	0.82567	0.56387	135.425	10.469	0.22092	2966.6
32.5000	0.8257	-0.0000	0.82566	0.56723	135.466	10.472	0.22092	2966.5

CONE SEMI-ANGLE=32.5
 FREE STREAM CONDITIONS
 MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 20957.2 FT./SEC. ENTRØPPY=31.8722

CONE SEMI-ANGLE=32.5
 FREE STREAM CONDITIONS
 MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 23052.9 FT./SEC. ENTRØPPY=31.8722

SHØCK ANGLE=34.2786 ENTRØPPY=41.4654
 GAMMA (AVG.)=1.2315 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

SHØCK ANGLE=34.2681 ENTRØPPY=40.2352
 GAMMA (AVG.)=1.1877 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.2786	0.8263	-0.0508	0.82787	0.53686	196.551	11.084	0.21858	3751.9
34.1008	0.8265	-0.0457	0.82772	0.53990	197.474	11.124	0.21874	3755.3
33.9229	0.8266	-0.0406	0.82759	0.54294	198.298	11.161	0.21887	3758.1
33.7450	0.8267	-0.0356	0.82747	0.54596	199.026	11.193	0.21899	3760.7
33.5672	0.8268	-0.0305	0.82737	0.54897	199.657	11.221	0.21908	3762.8
33.3893	0.8269	-0.0254	0.82728	0.55199	200.193	11.245	0.21917	3764.7
33.2114	0.8270	-0.0204	0.82721	0.55501	200.635	11.264	0.21924	3766.3
33.0336	0.8270	-0.0153	0.82715	0.55804	200.981	11.279	0.21929	3767.8
32.8557	0.8271	-0.0102	0.82711	0.56108	201.232	11.291	0.21934	3768.3
32.6778	0.8271	-0.0051	0.82709	0.56415	201.385	11.297	0.21936	3768.9
32.5000	0.8271	0.0000	0.82708	0.56723	201.440	11.299	0.21937	3769.2

FLOW PROPERTIES

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
34.2681	0.8264	-0.0506	0.82795	0.53700	162.604	11.139	0.21412	3231.2
34.0913	0.8266	-0.0455	0.82781	0.54004	163.365	11.183	0.21424	3233.0
33.9145	0.8267	-0.0404	0.82768	0.54306	164.044	11.222	0.21436	3234.7
33.7376	0.8268	-0.0354	0.82756	0.54607	164.642	11.257	0.21446	3236.0
33.5608	0.8269	-0.0303	0.82746	0.54907	165.162	11.287	0.21455	3237.3
33.3840	0.8270	-0.0253	0.82737	0.55207	165.603	11.313	0.21463	3238.4
33.2072	0.8271	-0.0203	0.82730	0.55507	165.966	11.333	0.21470	3239.4
33.0304	0.8271	-0.0152	0.82725	0.55809	166.251	11.350	0.21473	3240.1
32.8536	0.8271	-0.0102	0.82721	0.56111	166.457	11.362	0.21478	3240.6
32.6768	0.8272	-0.0051	0.82718	0.56416	166.584	11.369	0.21480	3240.8
32.5000	0.8272	-0.0000	0.82717	0.56723	166.629	11.371	0.21481	3241.1

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.2729 ENTRPHY=42.4848
GAMMA (AVG.)=1.1967 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.2729	0.8264	-0.0507	0.82792	0.53692	233.712	11.112	0.21510	4371.4
34.0956	0.8265	-0.0456	0.82777	0.53997	234.809	11.156	0.21520	4374.0
33.9183	0.8266	-0.0405	0.82764	0.54300	235.789	11.197	0.21528	4376.2
33.7410	0.8268	-0.0355	0.82752	0.54601	236.653	11.232	0.21535	4378.2
33.5637	0.8269	-0.0304	0.82742	0.54902	237.404	11.263	0.21542	4379.8
33.3864	0.8269	-0.0254	0.82733	0.55203	238.041	11.289	0.21547	4381.3
33.2091	0.8270	-0.0203	0.82726	0.55504	238.566	11.311	0.21551	4382.5
33.0318	0.8271	-0.0153	0.82721	0.55806	238.977	11.327	0.21555	4383.5
32.8545	0.8271	-0.0102	0.82717	0.56110	239.275	11.340	0.21557	4384.1
32.6773	0.8271	-0.0051	0.82714	0.56415	239.458	11.347	0.21559	4384.5
32.5000	0.8271	-0.0000	0.82713	0.56723	239.523	11.350	0.21559	4384.6

CONE SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.1646 ENTRPHY=43.4383
GAMMA (AVG.)=1.1655 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.1646	0.8274	-0.0477	0.82880	0.53872	274.117	11.777	0.20575	4730.7
33.9981	0.8276	-0.0429	0.82867	0.54159	275.327	11.823	0.20583	4732.8
33.8316	0.8277	-0.0381	0.82855	0.54444	276.408	11.863	0.20590	4734.6
33.6652	0.8278	-0.0334	0.82845	0.54728	277.360	11.899	0.20596	4736.2
33.4987	0.8279	-0.0286	0.82836	0.55011	278.187	11.930	0.20602	4737.7
33.3323	0.8279	-0.0239	0.82828	0.55294	278.889	11.957	0.20607	4738.8
33.1658	0.8280	-0.0191	0.82822	0.55578	279.467	11.978	0.20611	4739.9
32.9994	0.8280	-0.0144	0.82817	0.55862	279.920	11.995	0.20613	4740.7
32.8329	0.8281	-0.0096	0.82814	0.56147	280.247	12.007	0.20616	4741.3
32.6664	0.8281	-0.0048	0.82811	0.56434	280.448	12.015	0.20617	4741.5
32.5000	0.8281	0.0000	0.82811	0.56723	280.520	12.017	0.20617	4741.7

CONC SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=34.0734 ENTRPHY=44.4848
GAMMA (AVG.)=1.1452 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
34.0734	0.8283	-0.0451	0.82955	0.54024	317.757	12.409	0.19835	5047.2
33.9161	0.8284	-0.0406	0.82943	0.54296	319.084	12.455	0.19842	5049.0
33.7587	0.8285	-0.0361	0.82933	0.54566	320.268	12.495	0.19849	5050.7
33.6014	0.8286	-0.0316	0.82923	0.54835	321.313	12.531	0.19854	5052.3
33.4440	0.8287	-0.0271	0.82915	0.55103	322.219	12.562	0.19859	5053.6
33.2867	0.8288	-0.0226	0.82909	0.55371	322.988	12.588	0.19863	5054.8
33.1293	0.8288	-0.0181	0.82903	0.55639	323.621	12.610	0.19867	5055.5
32.9720	0.8289	-0.0136	0.82899	0.55908	324.117	12.627	0.19869	5056.1
32.8147	0.8289	-0.0091	0.82895	0.56178	324.475	12.640	0.19871	5056.7
32.6573	0.8289	-0.0045	0.82893	0.56450	324.695	12.647	0.19872	5057.0
32.5000	0.8289	-0.0000	0.82893	0.56723	324.774	12.650	0.19873	5057.1

CONC SEMI-ANGLE=32.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31439.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=33.9877 ENTRPHY=45.5532
GAMMA (AVG.)=1.1309 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
33.9877	0.8292	-0.0428	0.83026	0.54168	364.631	13.075	0.19174	5311.5
33.8389	0.8293	-0.0385	0.83015	0.54425	366.071	13.120	0.19180	5313.1
33.6901	0.8294	-0.0342	0.83006	0.54681	367.356	13.161	0.19186	5314.7
33.5414	0.8294	-0.0299	0.82998	0.54935	368.490	13.197	0.19191	5316.0
33.3926	0.8295	-0.0257	0.82990	0.55189	369.473	13.228	0.19196	5317.1
33.2438	0.8296	-0.0214	0.82984	0.55443	370.308	13.255	0.19199	5318.1
33.0950	0.8296	-0.0171	0.82979	0.55697	370.994	13.277	0.19202	5318.8
32.9463	0.8297	-0.0129	0.82975	0.55952	371.532	13.294	0.19205	5319.5
32.7975	0.8297	-0.0086	0.82973	0.56207	371.921	13.306	0.19206	5319.8
32.6487	0.8297	-0.0043	0.82971	0.56464	372.158	13.313	0.19207	5320.3
32.5000	0.8297	-0.0000	0.82970	0.56723	372.244	13.316	0.19208	5320.3

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=33.8045 ENTRØPY=48.3212
GAMMA (AVG.)=1.1184 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.8045	0.8309	-0.0376	0.83179	0.54478	495.976	14.795	0.17870	5806.3
33.6741	0.8310	-0.0338	0.83171	0.54703	497.692	14.840	0.17875	5807.7
33.5436	0.8311	-0.0301	0.83164	0.54928	499.224	14.881	0.17880	5809.0
33.4131	0.8312	-0.0263	0.83157	0.55152	500.575	14.917	0.17884	5810.2
33.2827	0.8312	-0.0226	0.83152	0.55376	501.747	14.948	0.17888	5811.1
33.1522	0.8313	-0.0188	0.83147	0.55599	502.742	14.975	0.17891	5811.9
33.0218	0.8313	-0.0151	0.83143	0.55822	503.559	14.996	0.17893	5812.7
32.8913	0.8313	-0.0113	0.83140	0.56046	504.200	15.013	0.17895	5813.2
32.7609	0.8313	-0.0075	0.83138	0.56271	504.662	15.025	0.17897	5813.6
32.6304	0.8314	-0.0038	0.83136	0.56496	504.945	15.033	0.17898	5813.8
32.5000	0.8314	-0.0000	0.83136	0.56723	505.046	15.036	0.17898	5813.9

CONE SEMI-ANGLE=32.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=33.6763 ENTRØPY=51.2298
GAMMA (AVG.)=1.1297 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
33.6763	0.8322	-0.0340	0.83288	0.54696	647.539	16.323	0.17065	6224.7
33.5587	0.8322	-0.0306	0.83281	0.54900	649.555	16.367	0.17070	6226.1
33.4410	0.8323	-0.0272	0.83275	0.55103	651.356	16.407	0.17074	6227.5
33.3234	0.8324	-0.0238	0.83270	0.55305	652.945	16.442	0.17078	6228.7
33.2058	0.8324	-0.0204	0.83265	0.55507	654.323	16.473	0.17081	6229.7
33.0881	0.8324	-0.0170	0.83261	0.55708	655.493	16.499	0.17084	6230.6
32.9705	0.8325	-0.0136	0.83258	0.55910	656.454	16.520	0.17087	6231.3
32.8529	0.8325	-0.0102	0.83256	0.56112	657.207	16.537	0.17088	6231.8
32.7352	0.8325	-0.0068	0.83254	0.56315	657.750	16.549	0.17090	6232.1
32.6176	0.8325	-0.0034	0.83253	0.56519	658.082	16.557	0.17090	6232.3
32.5000	0.8325	0.0000	0.83252	0.56723	658.200	16.559	0.17091	6232.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTROPY=31.8722

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

FLOW PROPERTIES

SHOCK ANGLE=45.4684 ENTROPY=32.2955
GAMMA (AVG.)=1.3906 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

SHOCK ANGLE=42.5021 ENTROPY=32.7400
GAMMA (AVG.)=1.3760 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4684	0.7012	-0.2479	0.74374	0.45373	5.176	2.875	0.64283	457.0
44.4216	0.7055	-0.2232	0.73993	0.46888	5.278	2.916	0.64869	459.5
43.3747	0.7093	-0.1988	0.73660	0.48377	5.368	2.952	0.65386	461.7
42.3279	0.7126	-0.1745	0.73370	0.49858	5.448	2.983	0.65841	463.6
41.2810	0.7156	-0.1503	0.73117	0.51347	5.517	3.010	0.66240	465.2
40.2342	0.7180	-0.1260	0.72900	0.52856	5.576	3.033	0.66583	466.7
39.1873	0.7201	-0.1015	0.72719	0.54395	5.626	3.053	0.66873	467.8
38.1405	0.7217	-0.0767	0.72572	0.55976	5.667	3.069	0.67107	468.8
37.0937	0.7228	-0.0516	0.72462	0.57610	5.697	3.080	0.67282	469.5
36.0468	0.7234	-0.0261	0.72392	0.59309	5.716	3.088	0.67393	469.9
35.0000	0.7236	0.0000	0.72364	0.61087	5.723	3.091	0.67435	470.1

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
42.5021	0.7372	-0.1877	0.76070	0.49255	8.385	3.600	0.52056	591.2
41.7519	0.7395	-0.1689	0.75854	0.50421	8.517	3.641	0.52336	593.7
41.0017	0.7416	-0.1503	0.75664	0.51570	8.634	3.678	0.52583	596.0
40.2515	0.7434	-0.1318	0.75498	0.52711	8.737	3.710	0.52799	597.9
39.5013	0.7450	-0.1133	0.75353	0.53853	8.827	3.737	0.52987	599.6
38.7510	0.7463	-0.0948	0.75230	0.55002	8.904	3.761	0.53148	601.0
38.0008	0.7474	-0.0762	0.75128	0.56165	8.969	3.781	0.53282	602.2
37.2506	0.7483	-0.0575	0.75046	0.57349	9.020	3.796	0.53389	603.1
36.5004	0.7489	-0.0386	0.74985	0.58559	9.058	3.808	0.53468	603.8
35.7502	0.7492	-0.0194	0.74947	0.59803	9.082	3.815	0.53517	604.2
35.0000	0.7493	0.0000	0.74932	0.61087	9.090	3.818	0.53536	604.4

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=41.0853 ENTRØPY=33.2525
GAMMA (AVG.)=1.3568 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.0853	0.7537	-0.1562	0.76972	0.51270	12.523	4.207	0.45722	755.7
40.4768	0.7553	-0.1406	0.76822	0.52246	12.692	4.248	0.45899	758.3
39.8682	0.7566	-0.1250	0.76691	0.53209	12.841	4.285	0.46055	760.7
39.2597	0.7579	-0.1096	0.76576	0.54165	12.973	4.318	0.46192	762.7
38.6512	0.7589	-0.0941	0.76476	0.55119	13.088	4.346	0.46310	764.5
38.0426	0.7598	-0.0787	0.76391	0.56078	13.186	4.370	0.46411	766.0
37.4341	0.7606	-0.0632	0.76320	0.57045	13.267	4.390	0.46495	767.2
36.8256	0.7612	-0.0476	0.76264	0.58025	13.332	4.405	0.46562	768.2
36.2170	0.7616	-0.0319	0.76223	0.59022	13.380	4.417	0.46610	768.9
35.6085	0.7618	-0.0161	0.76197	0.60041	13.410	4.424	0.46641	769.4
35.0000	0.7619	-0.0000	0.76187	0.61086	13.421	4.427	0.46652	769.5

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=40.2613 ENTRØPY=33.7872
GAMMA (AVG.)=1.3386 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
40.2613	0.7631	-0.1371	0.77530	0.52491	17.584	4.713	0.41819	947.0
39.7352	0.7643	-0.1234	0.77415	0.53349	17.795	4.755	0.41947	949.9
39.2091	0.7653	-0.1097	0.77314	0.54196	17.982	4.793	0.42061	952.4
38.6829	0.7663	-0.0961	0.77226	0.55038	18.147	4.825	0.42161	954.6
38.1568	0.7671	-0.0825	0.77149	0.55878	18.290	4.854	0.42247	956.5
37.6307	0.7677	-0.0690	0.77083	0.56720	18.413	4.878	0.42321	958.1
37.1045	0.7683	-0.0553	0.77029	0.57568	18.514	4.898	0.42381	959.5
36.5784	0.7687	-0.0417	0.76986	0.58425	18.595	4.914	0.42429	960.5
36.0523	0.7690	-0.0279	0.76955	0.59295	18.654	4.926	0.42465	961.3
35.5261	0.7692	-0.0140	0.76935	0.60181	18.690	4.933	0.42487	961.8
35.0000	0.7693	0.0000	0.76927	0.61087	18.704	4.936	0.42495	961.9

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3382.9 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.3469 ENTRBPY=34.8443
GAMMA (AVG.)=1.3137 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
39.3469	0.7733	-0.1152	0.78184	0.53888	30.474	5.505	0.37304	1405.3
38.9122	0.7741	-0.1036	0.78103	0.54609	30.764	5.547	0.37390	1408.7
38.4776	0.7749	-0.0921	0.78032	0.55322	31.059	5.585	0.37466	1411.7
38.0429	0.7755	-0.0807	0.77969	0.56031	31.302	5.618	0.37532	1414.3
37.6082	0.7761	-0.0693	0.77915	0.56736	31.513	5.647	0.37590	1416.6
37.1735	0.7765	-0.0578	0.77869	0.57445	31.693	5.671	0.37639	1418.5
36.7388	0.7769	-0.0464	0.77831	0.58157	31.842	5.692	0.37679	1420.1
36.3041	0.7772	-0.0349	0.77801	0.58874	31.959	5.708	0.37711	1421.3
35.8694	0.7774	-0.0234	0.77779	0.59600	32.045	5.719	0.37734	1422.3
35.4347	0.7776	-0.0117	0.77765	0.60336	32.099	5.727	0.37748	1422.8
35.0000	0.7776	0.0000	0.77760	0.61087	32.118	5.729	0.37754	1423.0

CBNE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=38.8635 ENTRBPY=35.8381
GAMMA (AVG.)=1.3010 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
38.8635	0.7786	-0.1033	0.78545	0.54646	47.050	6.077	0.34853	1965.4
38.4771	0.7793	-0.0929	0.78480	0.55292	47.480	6.120	0.34921	1969.5
38.0908	0.7799	-0.0826	0.78423	0.55931	47.863	6.157	0.34980	1973.2
37.7044	0.7804	-0.0723	0.78373	0.56566	48.200	6.191	0.35032	1976.4
37.3181	0.7808	-0.0621	0.78330	0.57200	48.493	6.220	0.35077	1979.1
36.9317	0.7812	-0.0518	0.78293	0.57835	48.743	6.244	0.35116	1981.5
36.5454	0.7815	-0.0416	0.78262	0.58472	48.950	6.265	0.35147	1983.4
36.1590	0.7818	-0.0313	0.78238	0.59114	49.113	6.281	0.35172	1985.0
35.7727	0.7819	-0.0209	0.78221	0.59762	49.231	6.292	0.35190	1986.1
35.3863	0.7820	-0.0105	0.78210	0.60419	49.305	6.300	0.35202	1986.8
35.0000	0.7821	0.0000	0.78205	0.61087	49.331	6.302	0.35206	1987.0

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 12574.3 FT./SEC. ENTROPY=31.8722

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 14670.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=38.2610 ENTROPY=36.8591
 GAMMA (AVG.)=1.1244 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

SHOCK ANGLE=37.6559 ENTROPY=37.8512
 GAMMA (AVG.)=1.1138 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.2610	0.7852	-0.0884	0.79015	0.55571	67.275	7.008	0.29725	2397.0
37.9349	0.7897	-0.0794	0.78967	0.56131	67.807	7.057	0.29755	2398.8
37.6088	0.7861	-0.0706	0.78925	0.56684	68.279	7.100	0.29781	2400.3
37.2827	0.7865	-0.0618	0.78888	0.57232	68.694	7.139	0.29804	2401.5
36.9566	0.7868	-0.0530	0.78856	0.57777	69.053	7.171	0.29823	2402.8
36.6305	0.7871	-0.0442	0.78829	0.58321	69.358	7.199	0.29841	2403.8
36.3044	0.7873	-0.0354	0.78807	0.58866	69.610	7.222	0.29853	2404.6
35.9783	0.7874	-0.0266	0.78789	0.59413	69.808	7.241	0.29865	2405.2
35.6522	0.7876	-0.0178	0.78777	0.59965	69.952	7.254	0.29873	2405.6
35.3261	0.7876	-0.0089	0.78769	0.60522	70.040	7.262	0.29876	2406.0
35.0000	0.7877	-0.0000	0.78766	0.61086	70.072	7.265	0.29879	2405.9

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.6559	0.7917	-0.0727	0.79502	0.56568	91.228	8.406	0.26717	2625.3
37.3903	0.7920	-0.0654	0.79470	0.57025	91.814	8.453	0.26737	2627.0
37.1247	0.7923	-0.0581	0.79441	0.57478	92.335	8.496	0.26758	2628.4
36.8591	0.7925	-0.0508	0.79417	0.57928	92.794	8.533	0.26775	2629.7
36.5935	0.7928	-0.0436	0.79395	0.58375	93.191	8.564	0.26790	2630.9
36.3279	0.7929	-0.0364	0.79377	0.58822	93.528	8.592	0.26802	2631.5
36.0623	0.7931	-0.0291	0.79362	0.59270	93.806	8.615	0.26812	2632.4
35.7967	0.7932	-0.0219	0.79350	0.59719	94.024	8.632	0.26820	2633.0
35.5311	0.7933	-0.0146	0.79341	0.60171	94.182	8.646	0.26826	2633.1
35.2655	0.7933	-0.0073	0.79336	0.60626	94.280	8.653	0.26828	2633.7
35.0000	0.7933	0.0000	0.79334	0.61087	94.314	8.656	0.26830	2633.7

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHECK ANGLE=37.2609 ENTRPHY=36.8582
GAMMA (AVG.)=1.1322 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.2609	0.7959	-0.0622	0.79031	0.57228	118.870	9.727	0.24864	2851.7
37.0348	0.7961	-0.0560	0.79808	0.57617	119.518	9.773	0.24882	2853.4
36.8088	0.7963	-0.0498	0.79787	0.58003	120.094	9.814	0.24898	2854.7
36.5827	0.7965	-0.0435	0.79769	0.58387	120.602	9.850	0.24912	2855.9
36.3566	0.7967	-0.0373	0.79753	0.58770	121.042	9.882	0.24924	2856.9
36.1305	0.7968	-0.0311	0.79740	0.59153	121.416	9.908	0.24934	2857.8
35.9044	0.7969	-0.0249	0.79729	0.59535	121.724	9.930	0.24943	2858.6
35.6783	0.7970	-0.0187	0.79720	0.59919	121.966	9.947	0.24951	2859.1
35.4522	0.7970	-0.0125	0.79714	0.60305	122.141	9.961	0.24954	2859.3
35.2261	0.7971	-0.0063	0.79710	0.60694	122.248	9.968	0.24958	2859.8
35.0000	0.7971	0.0000	0.79709	0.61087	122.287	9.971	0.24958	2859.7

CBNE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHECK ANGLE=37.0323 ENTRPHY=39.9527
GAMMA (AVG.)=1.1741 STAG. ENTHALPY=1.8042E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
37.0323	0.7983	-0.0561	0.80026	0.57614	150.198	10.730	0.24010	3134.1
36.8291	0.7985	-0.0505	0.80008	0.57963	150.930	10.775	0.24173	3135.5
36.6258	0.7986	-0.0449	0.79991	0.58310	151.583	10.815	0.24188	3137.2
36.4226	0.7988	-0.0393	0.79976	0.58656	152.159	10.850	0.24201	3138.6
36.2194	0.7989	-0.0337	0.79963	0.59001	152.659	10.880	0.24212	3139.9
36.0161	0.7990	-0.0281	0.79952	0.59345	153.083	10.907	0.24221	3140.7
35.8129	0.7991	-0.0225	0.79943	0.59690	153.433	10.928	0.24228	3141.5
35.6097	0.7992	-0.0169	0.79936	0.60036	153.707	10.945	0.24236	3142.2
35.4064	0.7992	-0.0113	0.79931	0.60384	153.906	10.956	0.24240	3142.8
35.2032	0.7993	-0.0057	0.79928	0.60734	154.027	10.964	0.24243	3143.0
35.0000	0.7993	0.0000	0.79927	0.61086	154.071	10.967	0.24244	3143.1

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 20957.2 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.9285 ENTRØPY=41.0377
 GAMMA (AVG.)=1.2217 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.9285	0.7994	-0.0533	0.80116	0.57791	185.208	11.267	0.23859	3531.5
36.7356	0.7996	-0.0480	0.80099	0.58122	186.062	11.310	0.23875	3533.9
36.5428	0.7997	-0.0427	0.80084	0.58451	186.825	11.347	0.23890	3536.3
36.3499	0.7998	-0.0373	0.80071	0.58779	187.498	11.381	0.23903	3538.0
36.1571	0.8000	-0.0320	0.80059	0.59106	188.082	11.410	0.23913	3539.6
35.9642	0.8000	-0.0267	0.80049	0.59433	188.579	11.433	0.23923	3541.5
35.7714	0.8001	-0.0214	0.80041	0.59760	188.987	11.455	0.23931	3542.3
35.5785	0.8002	-0.0161	0.80035	0.60089	189.308	11.471	0.23936	3543.2
35.3857	0.8002	-0.0107	0.80030	0.60419	189.540	11.482	0.23941	3544.1
35.1928	0.8003	-0.0054	0.80027	0.60751	189.682	11.489	0.23945	3544.3
35.0000	0.8003	-0.0000	0.80026	0.61086	189.733	11.491	0.23945	3544.5

CONE SEMI-ANGLE=35.0
 FREE STREAM CONDITIONS
 MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 23052.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.9941 ENTRØPY=42.2799
 GAMMA (AVG.)=1.2089 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.9941	0.7987	-0.0551	0.80059	0.57681	223.887	10.924	0.24124	4267.6
36.7947	0.7989	-0.0496	0.80041	0.58023	224.958	10.968	0.24137	4270.4
36.5953	0.7990	-0.0441	0.80025	0.58363	225.913	11.008	0.24148	4273.0
36.3959	0.7992	-0.0386	0.80011	0.58702	226.756	11.043	0.24158	4275.3
36.1965	0.7993	-0.0331	0.79998	0.59040	227.488	11.073	0.24166	4277.2
35.9970	0.7994	-0.0276	0.79988	0.59378	228.110	11.099	0.24173	4278.8
35.7976	0.7995	-0.0221	0.79979	0.59716	228.622	11.121	0.24179	4280.1
35.5982	0.7996	-0.0166	0.79973	0.60056	229.023	11.137	0.24183	4281.3
35.3988	0.7996	-0.0111	0.79968	0.60397	229.314	11.149	0.24187	4282.0
35.1994	0.7996	-0.0056	0.79965	0.60740	229.492	11.157	0.24189	4282.5
35.0000	0.7996	0.0000	0.79964	0.61087	229.556	11.160	0.24189	4282.6

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.8569 ENTRPHY=43.2448
GAMMA (AVG.)=1.1702 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.8569	0.8001	-0.0214	0.80179	0.57908	266.249	11.661	0.22905	4665.2
36.6712	0.8003	-0.0463	0.80163	0.58227	267.436	11.706	0.22915	4667.4
36.4855	0.8004	-0.0411	0.80149	0.58545	268.497	11.746	0.22924	4669.4
36.2999	0.8006	-0.0360	0.80136	0.58861	269.432	11.783	0.22932	4670.9
36.1142	0.8007	-0.0309	0.80126	0.59177	270.243	11.813	0.22938	4672.5
35.9285	0.8008	-0.0257	0.80116	0.59493	270.933	11.840	0.22944	4673.7
35.7428	0.8008	-0.0206	0.80109	0.59809	271.500	11.862	0.22949	4674.6
35.5571	0.8009	-0.0155	0.80103	0.60126	271.945	11.878	0.22953	4675.4
35.3714	0.8009	-0.0103	0.80099	0.60444	272.266	11.890	0.22955	4676.0
35.1857	0.8009	-0.0052	0.80096	0.60764	272.463	11.898	0.22957	4676.2
35.0000	0.8010	-0.0000	0.80095	0.61086	272.534	11.901	0.22958	4676.4

CONE SEMI-ANGLE=35.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.7481 ENTRPHY=44.3569
GAMMA (AVG.)=1.1473 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.7481	0.8013	-0.0485	0.80274	0.58089	312.298	12.330	0.22008	5011.9
36.5733	0.8014	-0.0437	0.80260	0.58391	313.611	12.376	0.22016	5013.8
36.3984	0.8015	-0.0388	0.80247	0.58690	314.783	12.416	0.22024	5015.5
36.2236	0.8016	-0.0340	0.80236	0.58989	315.816	12.452	0.22031	5017.1
36.0488	0.8017	-0.0291	0.80227	0.59287	316.713	12.483	0.22037	5018.3
35.8740	0.8018	-0.0243	0.80219	0.59585	317.474	12.510	0.22042	5019.4
35.6992	0.8019	-0.0194	0.80212	0.59882	318.101	12.531	0.22046	5020.4
35.5244	0.8019	-0.0146	0.80207	0.60181	318.591	12.549	0.22049	5021.0
35.3496	0.8020	-0.0097	0.80203	0.60481	318.946	12.561	0.22052	5021.5
35.1748	0.8020	-0.0049	0.80201	0.60783	319.164	12.568	0.22053	5021.8
35.0000	0.8020	-0.0000	0.80200	0.61086	319.242	12.571	0.22054	5021.9

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.5523 ENTRØPY=46.6585

GAMMA (AVG.)=1.1221 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.5523	0.8033	-0.0432	0.80448	0.58418	415.457	13.772	0.20518	5534.7
36.3971	0.8034	-0.0389	0.80436	0.58686	417.009	13.818	0.20525	5536.1
36.2419	0.8035	-0.0346	0.80426	0.58953	418.394	13.859	0.20532	5537.6
36.0866	0.8036	-0.0303	0.80418	0.59219	419.615	13.895	0.20537	5538.8
35.9314	0.8037	-0.0259	0.80410	0.59485	420.675	13.926	0.20542	5539.9
35.7762	0.8037	-0.0216	0.80404	0.59750	421.575	13.952	0.20546	5540.8
35.6209	0.8038	-0.0173	0.80398	0.60015	422.314	13.974	0.20549	5541.4
35.4657	0.8038	-0.0130	0.80394	0.60281	422.894	13.991	0.20552	5542.1
35.3105	0.8039	-0.0087	0.80391	0.60548	423.312	14.004	0.20554	5542.4
35.1552	0.8039	-0.0043	0.80389	0.60816	423.568	14.011	0.20555	5542.6
35.0000	0.8039	-0.0000	0.80389	0.61086	423.660	14.014	0.20555	5542.8

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.6461 ENTRØPY=45.4954

GAMMA (AVG.)=1.1315 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
36.6461	0.8023	-0.0458	0.80364	0.58260	362.035	13.038	0.21212	5298.5
36.4815	0.8025	-0.0412	0.80352	0.58545	363.469	13.084	0.21220	5300.2
36.3169	0.8026	-0.0366	0.80340	0.58827	364.749	13.125	0.21227	5301.6
36.1523	0.8027	-0.0320	0.80331	0.59109	365.877	13.161	0.21233	5303.0
35.9876	0.8028	-0.0275	0.80322	0.59390	366.857	13.192	0.21239	5304.1
35.8230	0.8028	-0.0229	0.80315	0.59671	367.688	13.219	0.21243	5305.0
35.6584	0.8029	-0.0183	0.80309	0.59952	368.371	13.240	0.21247	5305.9
35.4938	0.8029	-0.0138	0.80304	0.60234	368.907	13.257	0.21250	5306.5
35.3292	0.8030	-0.0092	0.80301	0.60516	369.294	13.270	0.21252	5307.0
35.1646	0.8030	-0.0046	0.80299	0.60800	369.531	13.277	0.21253	5307.3
35.0000	0.8030	0.0000	0.80298	0.61086	369.615	13.280	0.21253	5307.3

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.8722

CONE SEMI-ANGLE=35.0
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=36.3632 ENTROPY=49.6803
GAMMA (AVG.)=1.1216 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

SHOCK ANGLE=36.2482 ENTROPY=52.8520
GAMMA (AVG.)=1.1405 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
36.3632	0.8053	-0.0381	0.80617	0.58739	565.146	15.565	0.19232	6000.6	36.2482	0.8065	-0.0349	0.80722	0.58935	737.866	16.924	0.18563	6495.3
36.2269	0.8054	-0.0343	0.80609	0.58975	566.998	15.610	0.19238	6002.2	36.1233	0.8065	-0.0314	0.80715	0.59151	740.075	16.967	0.18568	6496.8
36.0905	0.8054	-0.0305	0.80601	0.59210	568.651	15.651	0.19243	6003.3	35.9985	0.8066	-0.0279	0.80708	0.59367	742.050	17.007	0.18573	6498.4
35.9542	0.8055	-0.0267	0.80594	0.59444	570.109	15.687	0.19248	6004.4	35.8737	0.8067	-0.0245	0.80703	0.59581	743.791	17.042	0.18578	6499.5
35.8179	0.8056	-0.0229	0.80588	0.59678	571.375	15.718	0.19252	6005.4	35.7489	0.8067	-0.0210	0.80698	0.59795	745.303	17.072	0.18582	6500.8
35.6816	0.8056	-0.0191	0.80583	0.59911	572.449	15.744	0.19255	6006.1	35.6241	0.8067	-0.0175	0.80693	0.60009	746.586	17.098	0.18585	6501.7
35.5453	0.8056	-0.0153	0.80579	0.60145	573.331	15.765	0.19258	6007.0	35.4993	0.8068	-0.0140	0.80690	0.60223	747.640	17.119	0.18588	6502.6
35.4089	0.8057	-0.0115	0.80576	0.60379	574.022	15.782	0.19260	6007.5	35.3744	0.8068	-0.0105	0.80687	0.60438	748.465	17.136	0.18589	6503.1
35.2726	0.8057	-0.0076	0.80574	0.60614	574.521	15.795	0.19262	6007.8	35.2496	0.8068	-0.0070	0.80685	0.60653	749.060	17.147	0.18591	6503.6
35.1363	0.8057	-0.0038	0.80572	0.60849	574.826	15.802	0.19263	6008.0	35.1248	0.8068	-0.0035	0.80684	0.60869	749.424	17.155	0.18592	6503.8
35.0000	0.8057	0.0000	0.80572	0.61087	574.935	15.805	0.19263	6008.1	35.0000	0.8068	-0.0000	0.80684	0.61086	749.554	17.157	0.18592	6503.9

CONE SEMI-ANGLE=37.5
 FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 3143.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=48.5044 ENTROPY=32.3743

GAMMA (AVG.)=1.3884 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ. T (K)

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.5044	0.6625	-0.2474	0.70715	0.48913	5.733	3.027	0.70259	480.8
47.4040	0.6669	-0.2228	0.70316	0.50493	5.841	3.068	0.70953	483.3
46.3035	0.6709	-0.1985	0.69966	0.52054	5.935	3.103	0.71568	485.5
45.2031	0.6745	-0.1742	0.69660	0.53612	6.019	3.135	0.72113	487.4
44.1026	0.6775	-0.1500	0.69394	0.55181	6.092	3.162	0.72591	489.0
43.0022	0.6901	-0.1257	0.69165	0.56772	6.154	3.185	0.73004	490.4
41.9017	0.6823	-0.1013	0.68974	0.58396	6.207	3.205	0.73353	491.6
40.8013	0.6839	-0.0766	0.68819	0.60065	6.249	3.221	0.73635	492.5
39.7009	0.6851	-0.0515	0.68704	0.61789	6.281	3.232	0.73846	493.2
38.6004	0.6858	-0.0260	0.68629	0.63579	6.301	3.240	0.73980	493.7
37.5000	0.6860	0.0000	0.68600	0.65450	6.308	3.243	0.74030	493.8

CONE SEMI-ANGLE=37.5
 FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 4191.4 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.4210 ENTROPY=32.8658

GAMMA (AVG.)=1.3713 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ. T (K)

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4210	0.7018	-0.1892	0.72689	0.52944	9.346	3.765	0.56626	630.2
44.6289	0.7043	-0.1703	0.72458	0.54171	9.487	3.806	0.56950	632.7
43.8368	0.7065	-0.1515	0.72255	0.55383	9.611	3.842	0.57235	635.0
43.0447	0.7084	-0.1329	0.72078	0.56589	9.721	3.874	0.57487	636.9
42.2526	0.7101	-0.1142	0.71924	0.57796	9.817	3.902	0.57706	638.6
41.4605	0.7115	-0.0956	0.71792	0.59013	9.899	3.926	0.57893	640.1
40.6684	0.7127	-0.0768	0.71683	0.60244	9.967	3.946	0.58049	641.3
39.8763	0.7136	-0.0579	0.71595	0.61497	10.022	3.961	0.58174	642.2
39.0842	0.7142	-0.0389	0.71531	0.62778	10.062	3.973	0.58266	642.9
38.2921	0.7146	-0.0196	0.71490	0.64093	10.088	3.980	0.58324	643.3
37.5000	0.7147	0.0000	0.71474	0.65450	10.097	3.983	0.58345	643.5

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=43.9569 ENTRPHY=33.4189
GAMMA (AVG.)=1.3508 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
43.9569	0.7198	-0.1586	0.73710	0.55026	14.009	4.375	0.49728	812.8
43.3112	0.7215	-0.1428	0.73549	0.56059	14.190	4.417	0.49932	815.5
42.6655	0.7230	-0.1270	0.73407	0.57080	14.350	4.454	0.50112	817.9
42.0198	0.7243	-0.1113	0.73283	0.58095	14.492	4.486	0.50270	820.0
41.3741	0.7255	-0.0956	0.73175	0.59109	14.615	4.514	0.50407	821.8
40.7284	0.7265	-0.0799	0.73083	0.60128	14.720	4.538	0.50524	823.3
40.0828	0.7272	-0.0642	0.73007	0.61156	14.808	4.558	0.50621	824.6
39.4371	0.7279	-0.0483	0.72947	0.62198	14.878	4.574	0.50698	825.6
38.7914	0.7283	-0.0324	0.72902	0.63258	14.929	4.586	0.50754	826.3
38.1457	0.7286	-0.0163	0.72874	0.64340	14.961	4.593	0.50789	826.8
37.5000	0.7286	-0.0000	0.72863	0.65450	14.972	4.596	0.50802	827.0

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=43.1047 ENTRPHY=33.9876
GAMMA (AVG.)=1.3328 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
43.1047	0.7301	-0.1400	0.74338	0.56289	19.713	4.882	0.45524	1025.1
42.5442	0.7314	-0.1259	0.74213	0.57201	19.941	4.924	0.45672	1028.0
41.9837	0.7325	-0.1120	0.74103	0.58103	20.143	4.961	0.45803	1030.6
41.4233	0.7335	-0.0981	0.74006	0.59000	20.321	4.994	0.45918	1032.9
40.8628	0.7344	-0.0843	0.73923	0.59895	20.475	5.023	0.46018	1034.8
40.3023	0.7352	-0.0704	0.73852	0.60794	20.608	5.047	0.46103	1036.5
39.7419	0.7358	-0.0565	0.73793	0.61698	20.717	5.067	0.46174	1037.9
39.1814	0.7362	-0.0425	0.73746	0.62613	20.804	5.083	0.46229	1039.0
38.6209	0.7366	-0.0285	0.73712	0.63540	20.868	5.095	0.46270	1039.7
38.0604	0.7368	-0.0143	0.73690	0.64485	20.907	5.102	0.46295	1040.2
37.5000	0.7368	0.0000	0.73682	0.65450	20.922	5.104	0.46304	1040.4

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=42.1605 ENTRØPY=35.0977
GAMMA (AVG.)=1.3097 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.1605	0.7413	-0.1185	0.75066	0.57732	34.240	5.664	0.40719	1534.5
41.6945	0.7422	-0.1066	0.74978	0.58503	34.578	5.707	0.40819	1538.1
41.2284	0.7430	-0.0948	0.74899	0.59267	34.878	5.745	0.40906	1541.2
40.7624	0.7437	-0.0830	0.74830	0.60026	35.142	5.778	0.40984	1544.0
40.2963	0.7443	-0.0713	0.74770	0.60784	35.372	5.807	0.41050	1546.3
39.8302	0.7448	-0.0595	0.74720	0.61544	35.568	5.831	0.41107	1548.4
39.3642	0.7452	-0.0477	0.74678	0.62307	35.730	5.851	0.41154	1550.0
38.8981	0.7456	-0.0359	0.74644	0.63076	35.859	5.867	0.41191	1551.3
38.4321	0.7458	-0.0240	0.74620	0.63855	35.952	5.879	0.41218	1552.3
37.9660	0.7459	-0.0121	0.74605	0.64645	36.010	5.886	0.41235	1552.9
37.5000	0.7460	0.0000	0.74599	0.65450	36.031	5.889	0.41241	1553.1

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=41.6648 ENTRØPY=36.1296
GAMMA (AVG.)=1.2985 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.6648	0.7470	-0.1069	0.75464	0.58508	52.922	6.220	0.38146	2159.9
41.2483	0.7478	-0.0962	0.75392	0.59203	53.393	6.262	0.38224	2164.3
40.8318	0.7484	-0.0855	0.75329	0.59891	53.813	6.300	0.38294	2168.2
40.4154	0.7490	-0.0749	0.75273	0.60576	54.183	6.334	0.38355	2171.6
39.9989	0.7495	-0.0643	0.75224	0.61259	54.505	6.363	0.38407	2174.6
39.5824	0.7499	-0.0536	0.75183	0.61943	54.779	6.387	0.38452	2177.1
39.1659	0.7503	-0.0430	0.75149	0.62630	55.006	6.408	0.38489	2179.1
38.7494	0.7505	-0.0324	0.75122	0.63323	55.184	6.424	0.38518	2180.8
38.3329	0.7507	-0.0216	0.75102	0.64022	55.315	6.435	0.38539	2181.9
37.9165	0.7508	-0.0109	0.75090	0.64730	55.395	6.442	0.38553	2182.7
37.5000	0.7509	0.0000	0.75085	0.65450	55.424	6.445	0.38557	2182.9

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NB.=12.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12576.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=40.8218 ENTRPHY=37.2249
GAMMA AVG.=1.1172 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.8218	0.7567	-0.0868	0.76170	0.59823	75.707	7.528	0.31514	2481.9
40.6896	0.7572	-0.0781	0.76123	0.60393	76.259	7.577	0.31544	2485.4
40.1575	0.7576	-0.0694	0.76080	0.60957	76.748	7.620	0.31574	2485.1
39.8253	0.7580	-0.0607	0.76043	0.61516	77.179	7.658	0.31599	2486.5
39.4931	0.7583	-0.0521	0.76011	0.62073	77.552	7.691	0.31623	2487.5
39.1609	0.7586	-0.0434	0.75984	0.62629	77.868	7.718	0.31642	2488.4
38.8207	0.7588	-0.0348	0.75962	0.63185	78.179	7.741	0.31655	2489.4
38.4965	0.7590	-0.0262	0.75944	0.63744	78.335	7.759	0.31666	2489.9
38.1843	0.7591	-0.0175	0.75932	0.64307	78.483	7.772	0.31675	2490.4
37.8321	0.7592	-0.0088	0.75924	0.64875	78.575	7.780	0.31681	2490.5
37.5000	0.7592	0.0000	0.75921	0.65451	78.608	7.783	0.31681	2490.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NB.=14.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=40.2192 ENTRPHY=38.2828
GAMMA AVG.=1.1104 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
40.2192	0.7636	-0.0718	0.76695	0.60818	102.685	8.991	0.28513	2721.6
39.9473	0.7639	-0.0646	0.76662	0.61286	103.296	9.039	0.28537	2723.1
39.6753	0.7642	-0.0574	0.76633	0.61750	103.840	9.080	0.28559	2724.6
39.4034	0.7644	-0.0502	0.76608	0.62210	104.318	9.117	0.28577	2725.8
39.1315	0.7647	-0.0431	0.76586	0.62669	104.733	9.149	0.28594	2726.8
38.8596	0.7648	-0.0359	0.76568	0.63128	105.086	9.176	0.28608	2727.6
38.5877	0.7650	-0.0288	0.76553	0.63587	105.376	9.198	0.28619	2728.4
38.3157	0.7651	-0.0216	0.76541	0.64047	105.604	9.217	0.28627	2728.6
38.0438	0.7652	-0.0145	0.76532	0.64511	105.769	9.228	0.28634	2729.4
37.7719	0.7652	-0.0072	0.76527	0.64977	105.870	9.236	0.28638	2729.5
37.5000	0.7652	-0.0000	0.76525	0.65449	105.906	9.239	0.28639	2729.7

CRNE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.8412 ENTROPY=39.3623
GAMMA (AVG.)=1.1497 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.8412	0.7678	-0.0622	0.77034	0.61452	133.821	10.299	0.26819	2974.8
39.6071	0.7681	-0.0560	0.77009	0.61854	134.504	10.343	0.26840	2976.8
39.3729	0.7683	-0.0497	0.76988	0.62254	135.113	10.384	0.26857	2978.2
39.1388	0.7685	-0.0435	0.76969	0.62652	135.650	10.420	0.26874	2979.3
38.9047	0.7686	-0.0373	0.76953	0.63048	136.115	10.451	0.26888	2980.4
38.6706	0.7688	-0.0311	0.76939	0.63445	136.511	10.477	0.26899	2981.2
38.4365	0.7689	-0.0249	0.76928	0.63842	136.836	10.500	0.26909	2981.7
38.2024	0.7690	-0.0187	0.76919	0.64240	137.092	10.516	0.26917	2982.5
37.9683	0.7690	-0.0125	0.76912	0.64640	137.277	10.528	0.26922	2983.1
37.7341	0.7691	-0.0063	0.76908	0.65043	137.390	10.536	0.26925	2983.2
37.5000	0.7691	-0.0000	0.76907	0.65444	137.431	10.538	0.26926	2983.4

CRNE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.6324 ENTROPY=40.4613
GAMMA (AVG.)=1.1978 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.6324	0.7701	-0.0568	0.77224	0.51806	169.112	11.224	0.26120	3306.5
39.4192	0.7703	-0.0511	0.77204	0.62172	169.895	11.268	0.26139	3308.6
39.2059	0.7705	-0.0454	0.77187	0.62536	170.595	11.307	0.26155	3310.3
38.9927	0.7707	-0.0398	0.77171	0.62898	171.212	11.342	0.26171	3311.8
38.7795	0.7708	-0.0341	0.77157	0.63260	171.748	11.371	0.26183	3313.4
38.5662	0.7709	-0.0285	0.77146	0.63621	172.203	11.396	0.26193	3314.4
38.3530	0.7710	-0.0228	0.77136	0.63983	172.578	11.417	0.26203	3315.3
38.1397	0.7711	-0.0171	0.77129	0.64347	172.872	11.434	0.26209	3316.0
37.9265	0.7711	-0.0114	0.77123	0.64712	173.084	11.446	0.26214	3316.6
37.7132	0.7712	-0.0057	0.77120	0.65079	173.215	11.453	0.26218	3316.8
37.5000	0.7712	-0.0000	0.77119	0.65449	173.261	11.454	0.26219	3317.3

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 456.92 DEG. R
VELOCITY= 2097.2 FT./SEC. ENTRALPY=1.4727

FLOW PROPERTIES

SHOCK ANGLE=39.7217 ENTRALPY=41.4975
GAMMA (AVG.)=1.2280 STAG. ENTHALPY=2.2245E 08 FT. SQ./SEC. SQ.

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.5878 ENTRALPY=42.9007
GAMMA (AVG.)=1.1798 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)	ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
39.5878	0.7706	-0.0557	0.77266	0.61879	252.124	11.442	0.25634	4542.0	39.5878	0.7706	-0.0557	0.77266	0.61879	252.124	11.442	0.25634	4542.0
39.3790	0.7708	-0.0501	0.77266	0.62238	253.272	11.487	0.25647	4544.1	39.3790	0.7708	-0.0501	0.77266	0.62238	253.272	11.487	0.25647	4544.1
39.1702	0.7710	-0.0445	0.77229	0.62595	254.296	11.527	0.25658	4546.1	39.1702	0.7710	-0.0445	0.77229	0.62595	254.296	11.527	0.25658	4546.1
38.9615	0.7712	-0.0390	0.77214	0.62950	255.200	11.563	0.25668	4547.9	38.9615	0.7712	-0.0390	0.77214	0.62950	255.200	11.563	0.25668	4547.9
38.7527	0.7713	-0.0334	0.77201	0.63305	255.984	11.594	0.25677	4549.4	38.7527	0.7713	-0.0334	0.77201	0.63305	255.984	11.594	0.25677	4549.4
38.5439	0.7714	-0.0279	0.77190	0.63659	256.650	11.620	0.25684	4550.7	38.5439	0.7714	-0.0279	0.77190	0.63659	256.650	11.620	0.25684	4550.7
38.3351	0.7715	-0.0223	0.77181	0.64014	257.198	11.642	0.25690	4551.8	38.3351	0.7715	-0.0223	0.77181	0.64014	257.198	11.642	0.25690	4551.8
38.1263	0.7716	-0.0168	0.77174	0.64370	257.628	11.659	0.25695	4552.5	38.1263	0.7716	-0.0168	0.77174	0.64370	257.628	11.659	0.25695	4552.5
37.9175	0.7716	-0.0112	0.77169	0.64727	257.939	11.671	0.25699	4553.0	37.9175	0.7716	-0.0112	0.77169	0.64727	257.939	11.671	0.25699	4553.0
37.7088	0.7716	-0.0056	0.77165	0.65087	258.130	11.679	0.25701	4553.4	37.7088	0.7716	-0.0056	0.77165	0.65087	258.130	11.679	0.25701	4553.4
37.5000	0.7716	-0.0000	0.77164	0.65450	258.198	11.681	0.25702	4553.7	37.5000	0.7716	-0.0000	0.77164	0.65450	258.198	11.681	0.25702	4553.7

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.0722

FLØW PROPERTIES

SHØCK ANGLE=39.4553 ENTRØPY=44.0618
GAMMA (AVG.)=1.1526 STAG. ENTHALPY=3.1097E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.4553	0.7721	-0.0523	0.77389	0.62099	299.848	12.151	0.24515	4926.8
39.2598	0.7723	-0.0471	0.77372	0.62436	301.129	12.196	0.24526	4928.8
39.0643	0.7724	-0.0418	0.77357	0.62771	302.271	12.237	0.24535	4930.5
38.8687	0.7726	-0.0366	0.77343	0.63105	303.279	12.273	0.24544	4932.0
38.6732	0.7727	-0.0314	0.77332	0.63438	304.154	12.304	0.24551	4933.3
38.4776	0.7728	-0.0262	0.77322	0.63770	304.896	12.330	0.24558	4934.4
38.2821	0.7729	-0.0210	0.77314	0.64103	305.507	12.352	0.24563	4935.4
38.0866	0.7729	-0.0157	0.77308	0.64437	305.986	12.369	0.24567	4936.1
37.8910	0.7730	-0.0105	0.77303	0.64773	306.332	12.381	0.24570	4936.6
37.6955	0.7730	-0.0053	0.77300	0.65110	306.545	12.389	0.24572	4937.0
37.5000	0.7730	-0.0000	0.77299	0.65450	306.620	12.391	0.24572	4937.1

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.0722

FLØW PROPERTIES

SHØCK ANGLE=39.3337 ENTRØPY=45.2643
GAMMA (AVG.)=1.1342 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.3337	0.7735	-0.0492	0.77503	0.62303	351.725	12.893	0.23546	5245.1
39.1504	0.7736	-0.0442	0.77488	0.62619	353.135	12.939	0.23557	5246.8
38.9670	0.7737	-0.0393	0.77474	0.62934	354.393	12.980	0.23566	5248.3
38.7836	0.7739	-0.0344	0.77463	0.63248	355.503	13.015	0.23574	5249.7
38.6002	0.7740	-0.0295	0.77452	0.63561	356.466	13.046	0.23580	5251.0
38.4168	0.7740	-0.0246	0.77444	0.63873	357.283	13.073	0.23585	5251.9
38.2335	0.7741	-0.0197	0.77437	0.64186	357.955	13.095	0.23590	5252.8
38.0501	0.7742	-0.0148	0.77431	0.64500	358.482	13.112	0.23594	5253.4
37.8667	0.7742	-0.0099	0.77427	0.64814	358.862	13.124	0.23596	5253.7
37.6833	0.7742	-0.0049	0.77425	0.65131	359.095	13.132	0.23598	5254.0
37.5000	0.7742	-0.0000	0.77424	0.65450	359.179	13.135	0.23598	5254.2

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.2219 ENTRØPY=46.4940
GAMMA (AVG.)=1.1231 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.2219	0.7747	-0.0463	0.77608	0.62491	407.753	13.669	0.22707	5504.2
39.0497	0.7748	-0.0416	0.77595	0.62788	409.289	13.714	0.22715	5505.7
38.8775	0.7749	-0.0370	0.77583	0.63084	410.659	13.755	0.22723	5507.1
38.7053	0.7751	-0.0324	0.77573	0.63379	411.868	13.791	0.22730	5508.4
38.5331	0.7751	-0.0278	0.77564	0.63674	412.916	13.822	0.22736	5509.4
38.3610	0.7752	-0.0231	0.77556	0.63968	413.806	13.849	0.22741	5510.2
38.1888	0.7753	-0.0185	0.77550	0.64262	414.538	13.871	0.22745	5511.1
38.0166	0.7753	-0.0139	0.77545	0.64557	415.111	13.888	0.22748	5511.6
37.8444	0.7754	-0.0093	0.77541	0.64853	415.525	13.900	0.22750	5512.0
37.6722	0.7754	-0.0047	0.77539	0.65150	415.778	13.907	0.22752	5512.4
37.5000	0.7754	-0.0000	0.77538	0.65450	415.869	13.910	0.22752	5512.3

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=39.1222 ENTRØPY=47.7530
GAMMA (AVG.)=1.1186 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
39.1222	0.7758	-0.0437	0.77703	0.62660	467.956	14.453	0.21995	5719.7
38.9600	0.7759	-0.0393	0.77691	0.62940	469.596	14.498	0.22003	5721.1
38.7978	0.7760	-0.0349	0.77681	0.63219	471.078	14.539	0.22010	5722.4
38.6355	0.7761	-0.0305	0.77671	0.63498	472.385	14.575	0.22016	5723.6
38.4733	0.7762	-0.0262	0.77663	0.63775	473.518	14.606	0.22021	5724.6
38.3111	0.7763	-0.0218	0.77656	0.64052	474.481	14.632	0.22026	5725.3
38.1489	0.7763	-0.0175	0.77651	0.64330	475.271	14.654	0.22030	5726.0
37.9866	0.7764	-0.0131	0.77647	0.64608	475.891	14.671	0.22032	5726.6
37.8244	0.7764	-0.0088	0.77643	0.64887	476.338	14.684	0.22035	5726.9
37.6622	0.7764	-0.0044	0.77641	0.65168	476.612	14.691	0.22036	5727.2
37.5000	0.7764	-0.0000	0.77641	0.65450	476.710	14.694	0.22036	5727.3

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=38.9340 ENTROPY=51.0275
GAMMA (AVG.)=1.1284 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.9340	0.7779	-0.0387	0.77883	0.62980	636.558	16.232	0.20773	6194.5
38.7906	0.7780	-0.0348	0.77874	0.63228	638.552	16.276	0.20780	6195.9
38.6472	0.7780	-0.0310	0.77866	0.63475	640.332	16.316	0.20786	6197.3
38.5038	0.7781	-0.0271	0.77859	0.63721	641.903	16.352	0.20791	6198.5
38.3604	0.7782	-0.0232	0.77852	0.63967	643.266	16.383	0.20796	6199.4
38.2170	0.7782	-0.0194	0.77847	0.64213	644.423	16.408	0.20800	6200.3
38.0736	0.7783	-0.0155	0.77843	0.64459	645.373	16.430	0.20803	6201.0
37.9302	0.7783	-0.0116	0.77839	0.64705	646.117	16.447	0.20805	6201.5
37.7868	0.7783	-0.0078	0.77837	0.64952	646.655	16.459	0.20807	6202.0
37.6434	0.7783	-0.0039	0.77835	0.65200	646.983	16.466	0.20808	6202.1
37.5000	0.7783	-0.0000	0.77834	0.65450	647.100	16.469	0.20809	6202.2

CONE SEMI-ANGLE=37.5
FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=38.8424 ENTROPY=54.4484
GAMMA (AVG.)=1.1502 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
38.8424	0.7789	-0.0363	0.77972	0.63136	831.126	17.280	0.20293	6829.3
38.7082	0.7790	-0.0327	0.77964	0.63368	833.560	17.323	0.20300	6831.2
38.5739	0.7790	-0.0290	0.77956	0.63600	835.735	17.362	0.20305	6833.0
38.4397	0.7791	-0.0254	0.77950	0.63830	837.654	17.397	0.20311	6834.4
38.3054	0.7791	-0.0218	0.77945	0.64061	839.319	17.427	0.20315	6835.8
38.1712	0.7792	-0.0182	0.77940	0.64291	840.732	17.453	0.20319	6836.7
38.0369	0.7792	-0.0145	0.77936	0.64521	841.894	17.473	0.20322	6837.7
37.9027	0.7793	-0.0109	0.77933	0.64752	842.803	17.489	0.20325	6838.6
37.7684	0.7793	-0.0073	0.77931	0.64984	843.459	17.501	0.20326	6839.0
37.6342	0.7793	-0.0036	0.77929	0.65216	843.860	17.509	0.20327	6839.2
37.5000	0.7793	-0.0000	0.77929	0.65450	844.003	17.511	0.20328	6839.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRØPY=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=51.7081 ENTRØPY=32.4562
GAMMA (AVG.)=1.3659 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
51.7081	0.6196	-0.2474	0.66714	0.52251	6.314	3.171	0.77766	505.4
50.5373	0.6243	-0.2229	0.66291	0.53913	6.427	3.212	0.78629	507.9
49.3665	0.6286	-0.1986	0.65919	0.55561	6.526	3.248	0.79400	510.1
48.1957	0.6323	-0.1744	0.65593	0.57211	6.614	3.279	0.80086	512.0
47.0249	0.6356	-0.1501	0.65309	0.58876	6.690	3.306	0.80691	513.6
45.8541	0.6384	-0.1258	0.65065	0.60569	6.756	3.330	0.81216	515.0
44.6833	0.6406	-0.1013	0.64860	0.62299	6.811	3.350	0.81660	516.2
43.5124	0.6424	-0.0766	0.64696	0.64077	6.855	3.365	0.82020	517.1
42.3416	0.6437	-0.0515	0.64572	0.65914	6.888	3.377	0.82289	517.8
41.1708	0.6444	-0.0260	0.64493	0.67822	6.909	3.384	0.82461	518.2
40.0000	0.6446	0.0000	0.64462	0.69813	6.917	3.387	0.82525	518.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRØPY=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=48.4336 ENTRØPY=32.9914
GAMMA (AVG.)=1.3666 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
48.4336	0.6634	-0.1910	0.69037	0.56505	10.338	3.917	0.62043	669.9
47.5903	0.6661	-0.1719	0.68789	0.57804	10.488	3.959	0.62429	672.5
46.7469	0.6684	-0.1530	0.68571	0.59089	10.620	3.995	0.62771	674.8
45.9035	0.6705	-0.1341	0.68380	0.60371	10.737	4.027	0.63073	676.7
45.0602	0.6723	-0.1153	0.68215	0.61656	10.838	4.055	0.63336	678.4
44.2168	0.6739	-0.0965	0.68073	0.62952	10.925	4.079	0.63562	679.9
43.3734	0.6751	-0.0775	0.67955	0.64265	10.998	4.099	0.63750	681.1
42.5301	0.6761	-0.0585	0.67861	0.65601	11.056	4.115	0.63900	682.1
41.6867	0.6768	-0.0392	0.67791	0.66966	11.098	4.126	0.64011	682.8
40.8433	0.6772	-0.0198	0.67747	0.68368	11.125	4.134	0.64081	683.2
40.0000	0.6773	0.0000	0.67730	0.69813	11.135	4.136	0.64106	683.4

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.0025 ENTRPHY=34.1814
GAMMA (AVG.)=1.3276 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0025	0.6946	-0.1429	0.70914	0.60005	21.902	5.035	0.49771	1104.1
45.4022	0.6960	-0.1285	0.70778	0.60979	22.146	5.077	0.49946	1107.2
44.8020	0.6973	-0.1143	0.70657	0.61943	22.363	5.115	0.50101	1109.8
44.2017	0.6984	-0.1002	0.70552	0.62902	22.555	5.148	0.50237	1112.2
43.6015	0.6993	-0.0860	0.70460	0.63861	22.721	5.176	0.50356	1114.2
43.0012	0.7001	-0.0719	0.70382	0.64823	22.863	5.201	0.50456	1115.9
42.4010	0.7008	-0.0577	0.70318	0.65792	22.981	5.221	0.50540	1117.3
41.8007	0.7013	-0.0434	0.70267	0.66772	23.074	5.237	0.50605	1118.4
41.2005	0.7017	-0.0291	0.70229	0.67767	23.143	5.249	0.50654	1119.3
40.6002	0.7019	-0.0146	0.70205	0.68779	23.185	5.256	0.50684	1119.8
40.0000	0.7020	-0.0000	0.70196	0.69813	23.201	5.259	0.50695	1120.0

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.8958 ENTRPHY=33.5817
GAMMA (AVG.)=1.3452 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.8958	0.6833	-0.1612	0.70204	0.58684	15.538	4.530	0.54373	870.8
46.2062	0.6851	-0.1450	0.70030	0.59783	15.732	4.572	0.54613	873.5
45.5166	0.6867	-0.1290	0.69876	0.60871	15.904	4.609	0.54826	876.0
44.8270	0.6882	-0.1131	0.69741	0.61953	16.055	4.641	0.55014	878.1
44.1375	0.6894	-0.0971	0.69623	0.63036	16.187	4.670	0.55177	880.0
43.4479	0.6905	-0.0812	0.69524	0.64125	16.300	4.694	0.55316	881.5
42.7583	0.6913	-0.0652	0.69441	0.65224	16.393	4.714	0.55431	882.8
42.0687	0.6920	-0.0491	0.69375	0.66338	16.468	4.730	0.55523	883.8
41.3791	0.6925	-0.0329	0.69327	0.67470	16.522	4.741	0.55590	884.6
40.6896	0.6928	-0.0166	0.69296	0.68627	16.556	4.748	0.55632	885.1
40.0000	0.6928	-0.0000	0.69284	0.69813	16.569	4.751	0.55647	885.2

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3302.9 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.0179 ENTR0PY=35.3391
GAMMA (AVG.)=1.3064 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VH	V	THETA	P	RHO	MU	T (K)
45.0179	0.7069	-0.1218	0.71729	0.61507	38.108	5.807	0.44591	1665.8
44.5161	0.7079	-0.1096	0.71631	0.62336	38.474	5.850	0.44708	1669.5
44.0143	0.7088	-0.0974	0.71544	0.63157	38.799	5.888	0.44812	1672.8
43.5125	0.7096	-0.0853	0.71467	0.63973	39.086	5.921	0.44904	1675.7
43.0107	0.7102	-0.0733	0.71401	0.64789	39.335	5.950	0.44983	1678.2
42.5089	0.7108	-0.0612	0.71345	0.65606	39.547	5.974	0.45050	1680.4
42.0071	0.7113	-0.0491	0.71298	0.66428	39.723	5.995	0.45106	1682.1
41.5053	0.7117	-0.0369	0.71262	0.67257	39.862	6.011	0.45149	1683.5
41.0035	0.7119	-0.0247	0.71235	0.68096	39.963	6.022	0.45182	1684.5
40.5018	0.7121	-0.0124	0.71218	0.68947	40.026	6.029	0.45201	1685.1
40.0000	0.7121	0.0000	0.71211	0.69813	40.049	6.032	0.45209	1685.3

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NR.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.3384 ENTR0PY=36.4679
GAMMA (AVG.)=1.1470 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VH	V	THETA	P	RHO	MU	T (K)
44.3384	0.7152	-0.1071	0.72318	0.62527	58.908	6.528	0.38576	2281.8
43.9046	0.7160	-0.0963	0.72242	0.63263	59.412	6.574	0.38634	2284.8
43.4707	0.7167	-0.0855	0.72174	0.63991	59.880	6.616	0.38682	2287.4
43.0369	0.7173	-0.0749	0.72115	0.64713	60.252	6.652	0.38725	2289.6
42.6031	0.7178	-0.0642	0.72064	0.65431	60.593	6.684	0.38762	2291.4
42.1692	0.7182	-0.0536	0.72021	0.66150	60.882	6.710	0.38794	2292.9
41.7354	0.7186	-0.0430	0.71985	0.66869	61.121	6.733	0.38821	2294.2
41.3015	0.7188	-0.0323	0.71957	0.67594	61.309	6.750	0.38842	2295.2
40.8677	0.7190	-0.0216	0.71937	0.68324	61.446	6.762	0.38854	2296.0
40.4338	0.7192	-0.0108	0.71924	0.69063	61.530	6.771	0.38864	2296.4
40.0000	0.7192	0.0000	0.71919	0.69813	61.560	6.773	0.38868	2296.6

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRØPY=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=43.4077 ENTRØPY=37.5800
GAMMA (AVG.)=1.1138 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
43.4077	0.7265	-0.0856	0.73150	0.64033	84.343	8.029	0.33560	2563.9
43.0669	0.7270	-0.0770	0.73102	0.64618	84.913	8.076	0.33597	2565.8
42.7261	0.7274	-0.0684	0.73059	0.65196	85.420	8.120	0.33630	2566.9
42.3854	0.7278	-0.0599	0.73021	0.65770	85.866	8.157	0.33656	2568.3
42.0446	0.7281	-0.0513	0.72989	0.66342	86.253	8.189	0.33683	2569.3
41.7038	0.7284	-0.0428	0.72962	0.66914	86.581	8.217	0.33703	2570.3
41.3631	0.7286	-0.0343	0.72939	0.67486	86.851	8.239	0.33720	2571.3
41.0223	0.7288	-0.0258	0.72921	0.68061	87.064	8.257	0.33731	2571.7
40.6815	0.7289	-0.0172	0.72908	0.68639	87.218	8.270	0.33743	2572.0
40.3407	0.7290	-0.0086	0.72900	0.69223	87.313	8.278	0.33749	2572.3
40.0000	0.7290	-0.0000	0.72897	0.69813	87.347	8.281	0.33751	2572.5

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRØPY=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=42.8070 ENTRØPY=38.7035
GAMMA (AVG.)=1.1277 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.8070	0.7336	-0.0713	0.73709	0.65029	114.420	9.536	0.30597	2816.1
42.5263	0.7340	-0.0641	0.73676	0.65512	115.057	9.582	0.30626	2817.6
42.2456	0.7343	-0.0570	0.73647	0.65990	115.624	9.624	0.30649	2818.9
41.9649	0.7345	-0.0499	0.73621	0.66466	116.124	9.660	0.30670	2820.1
41.6842	0.7347	-0.0428	0.73599	0.66940	116.557	9.692	0.30690	2821.2
41.4035	0.7349	-0.0357	0.73580	0.67414	116.925	9.718	0.30705	2822.1
41.1228	0.7351	-0.0286	0.73564	0.67888	117.228	9.740	0.30718	2822.8
40.8421	0.7352	-0.0215	0.73552	0.68364	117.466	9.759	0.30730	2823.1
40.5614	0.7353	-0.0143	0.73543	0.68843	117.638	9.770	0.30735	2823.8
40.2807	0.7353	-0.0072	0.73537	0.69326	117.744	9.779	0.30740	2823.8
40.0000	0.7354	-0.0000	0.73535	0.69813	117.782	9.781	0.30743	2823.9

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=16.00 ALTIITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTR08PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=42.4727 ENTR08PY=39.9219
GAMMA (AVG.)=1.1727 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.4727	0.7376	-0.0631	0.74029	0.65593	149.137	10.698	0.29258	3124.8
42.2254	0.7379	-0.0568	0.74003	0.66017	149.866	10.743	0.29559	3126.5
41.9782	0.7381	-0.0505	0.73980	0.66438	150.517	10.783	0.29581	3128.1
41.7309	0.7383	-0.0442	0.73960	0.66858	151.090	10.819	0.29599	3129.4
41.4836	0.7385	-0.0379	0.73943	0.67277	151.588	10.848	0.29616	3130.8
41.2364	0.7386	-0.0316	0.73928	0.67695	152.011	10.876	0.29630	3131.4
40.9891	0.7387	-0.0253	0.73916	0.68115	152.359	10.897	0.29641	3132.4
40.7418	0.7388	-0.0190	0.73906	0.68535	152.633	10.914	0.29650	3132.9
40.4945	0.7389	-0.0127	0.73899	0.68958	152.830	10.926	0.29656	3133.3
40.2473	0.7389	-0.0064	0.73895	0.69384	152.952	10.933	0.29663	3133.6
40.0000	0.7389	-0.0000	0.73893	0.69813	152.995	10.936	0.29663	3133.8

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=18.00 ALTIITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTR08PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=42.3446 ENTR08PY=41.1586
GAMMA (AVG.)=1.2255 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
42.3446	0.7391	-0.0600	0.74153	0.65812	188.490	11.236	0.29116	3580.0
42.1101	0.7393	-0.0539	0.74130	0.66213	189.362	11.278	0.29139	3590.6
41.8757	0.7395	-0.0480	0.74109	0.66612	190.140	11.316	0.29160	3592.9
41.6412	0.7397	-0.0420	0.74091	0.67009	190.827	11.348	0.29178	3595.1
41.4057	0.7399	-0.0360	0.74075	0.67407	191.424	11.377	0.29194	3597.0
41.1723	0.7400	-0.0300	0.74062	0.67804	191.930	11.403	0.29206	3598.2
40.9378	0.7401	-0.0241	0.74051	0.68202	192.348	11.422	0.29218	3599.8
40.7034	0.7402	-0.0181	0.74042	0.68601	192.675	11.436	0.29227	3600.6
40.4689	0.7403	-0.0121	0.74036	0.69002	192.912	11.449	0.29232	3601.5
40.2344	0.7403	-0.0060	0.74032	0.69406	193.057	11.456	0.29236	3601.8
40.0000	0.7403	-0.0000	0.74031	0.69813	193.109	11.458	0.29238	3602.1

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=42.3783 ENTRØPY=42.4585
GAMMA (AVG.)=1.1981 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

42.3783	0.7387	-0.0608	0.74121	0.65753	232.465	11.087	0.28987	4359.1
42.1405	0.7389	-0.0547	0.74097	0.66160	233.558	11.132	0.29004	4361.8
41.9026	0.7392	-0.0486	0.74075	0.66565	234.535	11.172	0.29020	4364.1
41.6648	0.7393	-0.0426	0.74057	0.66969	235.396	11.207	0.29034	4366.1
41.4270	0.7395	-0.0365	0.74041	0.67372	236.144	11.238	0.29046	4367.8
41.1891	0.7396	-0.0304	0.74027	0.67775	236.780	11.264	0.29056	4369.3
40.9513	0.7398	-0.0244	0.74015	0.68179	237.303	11.286	0.29064	4370.4
40.7135	0.7398	-0.0183	0.74007	0.68584	237.713	11.303	0.29071	4371.4
40.4756	0.7399	-0.0122	0.74000	0.68991	238.011	11.315	0.29075	4372.1
40.2378	0.7399	-0.0061	0.73996	0.69400	238.193	11.322	0.29078	4372.5
40.0000	0.7399	0.0000	0.73995	0.69813	238.258	11.325	0.29079	4372.7

CONE SEMI-ANGLE=40.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=42.2042 ENTRØPY=43.6078
GAMMA (AVG.)=1.1617 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.
ETA VR VN V THETA P RHO MU T (K)

42.2042	0.7408	-0.0566	0.74291	0.66040	281.046	11.879	0.27457	4786.2
41.9838	0.7410	-0.0509	0.74270	0.66419	282.275	11.923	0.27471	4788.5
41.7634	0.7411	-0.0452	0.74252	0.66796	283.372	11.964	0.27484	4790.3
41.5430	0.7413	-0.0396	0.74236	0.67172	284.340	12.000	0.27495	4791.9
41.3225	0.7414	-0.0339	0.74222	0.67547	285.179	12.031	0.27504	4793.2
41.1021	0.7416	-0.0283	0.74210	0.67921	285.893	12.057	0.27512	4794.5
40.8817	0.7417	-0.0227	0.74200	0.68296	286.479	12.079	0.27519	4795.5
40.6613	0.7417	-0.0170	0.74192	0.68672	286.940	12.096	0.27524	4796.1
40.4408	0.7418	-0.0114	0.74187	0.69050	287.272	12.108	0.27528	4796.7
40.2204	0.7418	-0.0057	0.74183	0.69430	287.476	12.116	0.27531	4797.1
40.0000	0.7418	-0.0000	0.74182	0.69813	287.549	12.119	0.27531	4797.2

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NØ.=26.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=41.9246 ENTRØPY=46.1565

GAMMA (AVG.)=1.1254 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
41.9246	0.7440	-0.0497	0.74568	0.66508	392.100	13.456	0.25231	5438.5
41.7321	0.7442	-0.0447	0.74552	0.66841	393.601	13.502	0.25242	5440.1
41.5396	0.7443	-0.0397	0.74538	0.67171	394.941	13.542	0.25251	5441.7
41.3472	0.7444	-0.0347	0.74525	0.67500	396.123	13.578	0.25259	5442.9
41.1547	0.7446	-0.0298	0.74515	0.67829	397.148	13.610	0.25267	5444.0
40.9623	0.7446	-0.0248	0.74505	0.68157	398.018	13.636	0.25273	5444.9
40.7698	0.7447	-0.0199	0.74498	0.68486	398.734	13.658	0.25278	5445.6
40.5773	0.7448	-0.0149	0.74492	0.68815	399.294	13.675	0.25282	5446.2
40.3849	0.7448	-0.0100	0.74488	0.69146	399.700	13.687	0.25285	5446.8
40.1924	0.7448	-0.0050	0.74485	0.69478	399.948	13.695	0.25287	5446.9
40.0000	0.7448	-0.0000	0.74484	0.69813	400.036	13.698	0.25287	5447.0

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NØ.=24.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=42.0587 ENTRØPY=44.8671

GAMMA (AVG.)=1.1394 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
42.0587	0.7425	-0.0530	0.74434	0.66283	334.258	12.645	0.26266	5147.8
41.8528	0.7426	-0.0477	0.74416	0.66638	335.626	12.691	0.26278	5149.8
41.6470	0.7428	-0.0424	0.74400	0.66991	336.847	12.731	0.26289	5151.4
41.4411	0.7429	-0.0371	0.74386	0.67342	337.923	12.767	0.26298	5152.8
41.2352	0.7431	-0.0318	0.74374	0.67693	338.857	12.799	0.26307	5153.9
41.0293	0.7432	-0.0265	0.74363	0.68044	339.650	12.825	0.26314	5155.0
40.8235	0.7432	-0.0212	0.74355	0.68395	340.302	12.847	0.26320	5155.8
40.6176	0.7433	-0.0159	0.74348	0.68747	340.814	12.864	0.26324	5156.5
40.4117	0.7434	-0.0106	0.74343	0.69100	341.183	12.876	0.26328	5157.0
40.2059	0.7434	-0.0053	0.74340	0.69455	341.410	12.884	0.26329	5157.2
40.0000	0.7434	-0.0000	0.74339	0.69813	341.491	12.886	0.26330	5157.4

CBNE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.271E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=41.8047 ENTROPY=47.4782
GAMMA (AVG.)=1.1190 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.8047	0.7454	-0.0467	0.74688	0.66711	454.571	14.284	0.24357	5675.8
41.6243	0.7456	-0.0420	0.74674	0.67022	456.204	14.329	0.24367	5677.4
41.4438	0.7457	-0.0373	0.74661	0.67333	457.661	14.370	0.24375	5678.6
41.2633	0.7458	-0.0327	0.74650	0.67642	458.947	14.406	0.24383	5679.7
41.0828	0.7459	-0.0280	0.74641	0.67951	460.062	14.437	0.24389	5680.8
40.9024	0.7460	-0.0233	0.74633	0.68259	461.008	14.463	0.24395	5681.6
40.7219	0.7460	-0.0187	0.74626	0.68568	461.787	14.485	0.24399	5682.4
40.5414	0.7461	-0.0140	0.74621	0.68877	462.396	14.502	0.24403	5682.9
40.3609	0.7461	-0.0094	0.74617	0.69187	462.836	14.515	0.24405	5683.2
40.1805	0.7461	-0.0047	0.74615	0.69499	463.106	14.522	0.24407	5683.4
40.0000	0.7461	-0.0000	0.74614	0.69813	463.202	14.525	0.24407	5683.6

CBNE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.271E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=41.7011 ENTROPY=48.8328
GAMMA (AVG.)=1.1190 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
41.7011	0.7466	-0.0441	0.74792	0.66886	521.672	15.094	0.23643	5880.8
41.5310	0.7467	-0.0397	0.74780	0.67180	523.438	15.140	0.23652	5882.2
41.3609	0.7469	-0.0352	0.74769	0.67473	525.015	15.180	0.23660	5883.5
41.1907	0.7470	-0.0308	0.74759	0.67765	526.405	15.216	0.23667	5884.6
41.0206	0.7470	-0.0264	0.74751	0.68056	527.612	15.247	0.23672	5885.5
40.8505	0.7471	-0.0220	0.74743	0.68347	528.636	15.274	0.23678	5886.3
40.6804	0.7472	-0.0177	0.74737	0.68638	529.478	15.295	0.23682	5887.0
40.5103	0.7472	-0.0133	0.74733	0.68930	530.137	15.312	0.23685	5887.5
40.3402	0.7472	-0.0088	0.74729	0.69223	530.613	15.325	0.23687	5887.9
40.1701	0.7473	-0.0044	0.74727	0.69517	530.904	15.332	0.23689	5888.1
40.0000	0.7473	-0.0000	0.74727	0.69813	531.008	15.335	0.23689	5888.3

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41916.3 FT./SEC. ENTROPY=31.0722

FLOW PROPERTIES

SHOCK ANGLE=41.4656

GAMMA (AVG.)=1.1521 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.4656	0.7494	-0.0381	0.75032	0.67288	926.623	17.369	0.22260	7251.8
41.3190	0.7494	-0.0343	0.75023	0.67541	929.322	17.412	0.22268	7254.2
41.1725	0.7495	-0.0305	0.75015	0.67794	931.733	17.451	0.22275	7256.1
41.0259	0.7496	-0.0267	0.75007	0.68045	933.861	17.485	0.22281	7258.0
40.8793	0.7497	-0.0229	0.75001	0.68297	935.708	17.514	0.22286	7259.5
40.7328	0.7497	-0.0191	0.74996	0.68548	937.275	17.539	0.22290	7260.9
40.5862	0.7498	-0.0153	0.74991	0.68800	938.563	17.560	0.22294	7262.0
40.4397	0.7498	-0.0115	0.74988	0.69052	939.572	17.576	0.22297	7262.9
40.2931	0.7498	-0.0077	0.74985	0.69304	940.299	17.587	0.22299	7263.5
40.1465	0.7498	-0.0038	0.74984	0.69558	940.744	17.595	0.22300	7263.9
40.0000	0.7498	-0.0000	0.74983	0.69813	940.902	17.597	0.22300	7264.1

CONE SEMI-ANGLE=40.0

FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTROPY=31.0722

FLOW PROPERTIES

SHOCK ANGLE=41.5216

GAMMA (AVG.)=1.1371 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
41.5216	0.7487	-0.0395	0.74975	0.67192	709.680	16.763	0.22536	6406.3
41.3694	0.7488	-0.0356	0.74965	0.67455	711.827	16.807	0.22543	6407.8
41.2173	0.7489	-0.0316	0.74956	0.67717	713.745	16.847	0.22550	6409.2
41.0651	0.7490	-0.0277	0.74948	0.67978	715.438	16.881	0.22557	6410.6
40.9130	0.7490	-0.0237	0.74941	0.68239	716.906	16.912	0.22562	6411.6
40.7608	0.7491	-0.0198	0.74935	0.68500	718.152	16.938	0.22566	6412.6
40.6086	0.7491	-0.0158	0.74931	0.68761	719.176	16.959	0.22570	6413.3
40.4565	0.7492	-0.0119	0.74927	0.69023	719.978	16.976	0.22573	6413.8
40.3043	0.7492	-0.0079	0.74924	0.69285	720.557	16.987	0.22575	6414.4
40.1521	0.7492	-0.0040	0.74923	0.69548	720.911	16.995	0.22576	6414.5
40.0000	0.7492	-0.0000	0.74922	0.69813	721.037	16.998	0.22577	6414.6

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=55.1466 ENTRPHY=32.5410
GAMMA (AVG.)=1.3831 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.1466	0.5714	-0.2479	0.62282	0.55315	6.921	3.310	4.87799	530.8
53.8820	0.5765	-0.2234	0.61828	0.57075	7.039	3.350	0.88959	533.3
52.6173	0.5811	-0.1991	0.61427	0.58829	7.143	3.386	0.90005	535.5
51.3527	0.5852	-0.1748	0.61075	0.60594	7.235	3.417	0.90945	537.4
50.0880	0.5887	-0.1506	0.60768	0.62380	7.315	3.445	0.91781	539.0
48.8233	0.5917	-0.1262	0.60504	0.64199	7.384	3.468	0.92512	540.4
47.5587	0.5942	-0.1016	0.60282	0.66062	7.442	3.488	0.93133	541.6
46.2940	0.5961	-0.0768	0.60104	0.67980	7.488	3.504	0.93638	542.5
45.0293	0.5975	-0.0517	0.59970	0.69964	7.523	3.515	0.94018	543.2
43.7647	0.5983	-0.0261	0.59884	0.72025	7.545	3.523	0.94261	543.7
42.5000	0.5985	0.0000	0.59850	0.74177	7.553	3.526	0.94352	543.8

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NR.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=51.5662 ENTRPHY=33.1159
GAMMA (AVG.)=1.3619 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.5662	0.6215	-0.1929	0.65080	0.59902	11.359	4.060	0.68662	710.2
50.6596	0.6244	-0.1737	0.64812	0.61206	11.517	4.101	0.69142	712.9
49.7530	0.6270	-0.1546	0.64576	0.62659	11.657	4.138	0.69569	715.2
48.8463	0.6292	-0.1356	0.64369	0.64031	11.780	4.170	0.69946	717.2
47.9397	0.6312	-0.1166	0.64189	0.65409	11.888	4.198	0.70277	718.9
47.0331	0.6329	-0.0975	0.64035	0.66800	11.980	4.222	0.70560	720.4
46.1265	0.6342	-0.0784	0.63906	0.68210	12.057	4.241	0.70797	721.6
45.2198	0.6353	-0.0591	0.63804	0.69646	12.118	4.257	0.70987	722.6
44.3132	0.6360	-0.0397	0.63728	0.71115	12.163	4.269	0.71127	723.3
43.4066	0.6365	-0.0200	0.63680	0.72623	12.192	4.276	0.71214	723.7
42.5000	0.6366	0.0000	0.63661	0.74177	12.202	4.279	0.71247	723.9

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.9193 ENTROPY=33.7402
GAMMA (AVG.)=1.3401 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.9193	0.6438	-0.1637	0.66432	0.62221	17.105	4.672	0.59884	929.3
49.1773	0.6458	-0.1474	0.66242	0.63396	17.311	4.714	0.60177	932.1
48.4354	0.6476	-0.1311	0.66074	0.64561	17.494	4.751	0.60438	934.6
47.6935	0.6492	-0.1149	0.65926	0.65722	17.655	4.784	0.60667	936.8
46.9516	0.6505	-0.0987	0.65798	0.66885	17.796	4.812	0.60867	938.7
46.2096	0.6517	-0.0825	0.65689	0.68055	17.916	4.837	0.61038	940.3
45.4677	0.6526	-0.0663	0.65598	0.69238	18.015	4.857	0.61180	941.6
44.7258	0.6534	-0.0499	0.65526	0.70436	18.094	4.873	0.61292	942.6
43.9838	0.6539	-0.0334	0.65473	0.71655	18.153	4.884	0.61375	943.4
43.2419	0.6542	-0.0168	0.65440	0.72900	18.189	4.892	0.61427	943.9
42.5000	0.6543	-0.0000	0.65427	0.74176	18.202	4.894	0.61446	944.1

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS
MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=48.9688 ENTROPY=34.3679
GAMMA (AVG.)=1.3232 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.9688	0.6564	-0.1457	0.67243	0.63619	24.139	5.176	0.54740	1183.9
48.3219	0.6580	-0.1312	0.67093	0.64663	24.400	5.218	0.54951	1187.0
47.6750	0.6594	-0.1166	0.66961	0.65699	24.632	5.255	0.55139	1189.8
47.0281	0.6606	-0.1022	0.66845	0.66730	24.837	5.288	0.55305	1192.2
46.3813	0.6616	-0.0878	0.66744	0.67762	25.015	5.317	0.55449	1194.3
45.7344	0.6625	-0.0733	0.66658	0.68798	25.167	5.341	0.55571	1196.0
45.0875	0.6633	-0.0589	0.66587	0.69842	25.293	5.362	0.55673	1197.5
44.4406	0.6638	-0.0443	0.66531	0.70899	25.393	5.378	0.55753	1198.6
43.7937	0.6642	-0.0297	0.66490	0.71970	25.466	5.389	0.55812	1199.5
43.1469	0.6645	-0.0149	0.66464	0.73062	25.512	5.397	0.55849	1200.0
42.5000	0.6645	-0.0000	0.66454	0.74176	25.528	5.399	0.55862	1200.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRØPY=31.8722

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPY=31.8722

FLØM PROPERTIES

SHØCK ANGLE=47.9295 ENTRØPY=35.5686
GAMMA (AVG.)=1.3037 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
47.9295	0.6700	-0.1251	0.68160	0.65199	42.055	5.935	0.49055	1798.6
47.3866	0.6711	-0.1125	0.68051	0.66092	42.448	5.978	0.49197	1802.5
46.8436	0.6721	-0.1001	0.67955	0.66978	42.799	6.016	0.49322	1806.0
46.3007	0.6730	-0.0876	0.67870	0.67659	43.108	6.049	0.49433	1809.0
45.7577	0.6738	-0.0752	0.67796	0.68741	43.376	6.078	0.49529	1811.6
45.2148	0.6744	-0.0628	0.67734	0.69625	43.605	6.102	0.49611	1813.8
44.6718	0.6749	-0.0504	0.67682	0.70513	43.794	6.123	0.49678	1815.7
44.1288	0.6753	-0.0379	0.67641	0.71410	43.944	6.139	0.49731	1817.1
43.5859	0.6756	-0.0254	0.67611	0.72318	44.053	6.150	0.49770	1818.2
43.0429	0.6758	-0.0127	0.67593	0.73239	44.121	6.158	0.49794	1818.8
42.5000	0.6759	0.0000	0.67585	0.74177	44.145	6.160	0.49803	1819.1

FLØM PROPERTIES

SHØCK ANGLE=47.0246 ENTRØPY=36.7578
GAMMA (AVG.)=1.1276 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
47.0246	0.6817	-0.1066	0.68995	0.66568	65.028	6.866	0.41193	2373.0
46.5721	0.6825	-0.0958	0.68916	0.67336	65.554	6.915	0.41256	2375.0
46.1197	0.6832	-0.0851	0.68846	0.68096	66.021	6.958	0.41314	2376.7
45.6672	0.6838	-0.0745	0.68784	0.68850	66.431	6.996	0.41364	2377.9
45.2147	0.6843	-0.0639	0.68731	0.69601	66.786	7.029	0.41408	2379.2
44.7623	0.6848	-0.0533	0.68686	0.70351	67.088	7.057	0.41443	2380.1
44.3098	0.6852	-0.0428	0.68649	0.71104	67.337	7.080	0.41475	2381.0
43.8573	0.6854	-0.0321	0.68620	0.71860	67.533	7.099	0.41498	2381.5
43.4049	0.6856	-0.0215	0.68598	0.72623	67.675	7.112	0.41517	2382.1
42.9524	0.6858	-0.0108	0.68585	0.73395	67.763	7.120	0.41524	2382.3
42.5000	0.6858	0.0000	0.68580	0.74178	67.795	7.123	0.41530	2382.5

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.0215 ENTRPHY=37.9241
GAMMA (AVG.)=1.1142 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.0215	0.6944	-0.0846	0.69952	0.68199	93.120	8.506	0.35931	2641.9
45.6694	0.6949	-0.0761	0.69902	0.68802	93.710	8.554	0.35975	2643.1
45.3172	0.6953	-0.0676	0.69859	0.69399	94.234	8.596	0.36008	2644.7
44.9651	0.6957	-0.0592	0.69820	0.69993	94.696	8.633	0.36041	2645.7
44.6129	0.6960	-0.0508	0.69787	0.70585	95.096	8.665	0.36068	2647.0
44.2607	0.6963	-0.0423	0.69759	0.71176	95.436	8.692	0.36092	2647.8
43.9086	0.6965	-0.0339	0.69736	0.71768	95.715	8.715	0.36113	2648.5
43.5564	0.6967	-0.0255	0.69718	0.72363	95.935	8.733	0.36129	2649.0
43.2043	0.6968	-0.0170	0.69704	0.72962	96.095	8.745	0.36140	2649.6
42.8521	0.6969	-0.0085	0.69696	0.73565	96.193	8.753	0.36146	2649.8
42.5000	0.6969	-0.0000	0.69693	0.74176	96.228	8.757	0.36149	2649.7

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.4246 ENTRPHY=39.1131
GAMMA (AVG.)=1.1405 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.4246	0.7018	-0.0710	0.70543	0.69192	126.346	10.026	0.33034	2912.4
45.1321	0.7022	-0.0639	0.70509	0.69694	127.011	10.071	0.33065	2914.3
44.8396	0.7025	-0.0568	0.70478	0.70192	127.603	10.113	0.33095	2915.5
44.5472	0.7028	-0.0497	0.70451	0.70687	128.125	10.149	0.33119	2916.5
44.2547	0.7030	-0.0426	0.70428	0.71181	128.578	10.180	0.33141	2917.8
43.9623	0.7032	-0.0356	0.70408	0.71675	128.962	10.207	0.33157	2918.6
43.6698	0.7033	-0.0285	0.70392	0.72170	129.279	10.229	0.33175	2919.4
43.3774	0.7035	-0.0214	0.70379	0.72667	129.527	10.245	0.33187	2919.9
43.0849	0.7036	-0.0143	0.70370	0.73166	129.707	10.258	0.33195	2920.3
42.7924	0.7036	-0.0072	0.70364	0.73669	129.817	10.266	0.33199	2920.4
42.5000	0.7036	-0.0000	0.70362	0.74176	129.857	10.269	0.33201	2920.6

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.0952 ENTROPY=40.3076
GAMMA (AVG.)=1.1911 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.0952	0.7059	-0.0634	0.70877	0.69748	164.699	11.170	0.31756	3254.6
44.8356	0.7062	-0.0571	0.70850	0.70192	165.466	11.215	0.31783	3256.4
44.5761	0.7064	-0.0507	0.70826	0.70634	166.151	11.254	0.31805	3258.1
44.3166	0.7067	-0.0444	0.70804	0.71074	166.755	11.289	0.31827	3259.4
44.0571	0.7068	-0.0381	0.70786	0.71514	167.280	11.318	0.31846	3260.9
43.7976	0.7070	-0.0318	0.70770	0.71953	167.726	11.344	0.31862	3262.0
43.5381	0.7071	-0.0254	0.70757	0.72393	168.092	11.365	0.31874	3262.8
43.2785	0.7072	-0.0191	0.70747	0.72835	168.380	11.382	0.31884	3263.5
43.0190	0.7073	-0.0128	0.70740	0.73279	168.589	11.393	0.31891	3264.1
42.7595	0.7073	-0.0064	0.70735	0.73726	168.716	11.401	0.31897	3264.3
42.5000	0.7073	0.0000	0.70734	0.74177	168.762	11.404	0.31898	3264.3

CONE SEMI-ANGLE=42.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.1923 ENTROPY=41.8864
GAMMA (AVG.)=1.2284 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.1923	0.7047	-0.0656	0.70778	0.69589	208.201	10.810	0.32861	4025.4
44.9231	0.7050	-0.0591	0.70748	0.70049	209.206	10.852	0.32888	4028.9
44.6539	0.7053	-0.0525	0.70723	0.70506	210.103	10.889	0.32912	4032.2
44.3846	0.7055	-0.0460	0.70700	0.70961	210.895	10.921	0.32935	4035.0
44.1154	0.7057	-0.0394	0.70680	0.71416	211.582	10.950	0.32953	4037.4
43.8461	0.7059	-0.0329	0.70663	0.71871	212.166	10.974	0.32969	4039.5
43.5769	0.7060	-0.0263	0.70649	0.72327	212.647	10.995	0.32983	4041.0
43.3077	0.7061	-0.0198	0.70639	0.72785	213.025	11.010	0.32993	4042.4
43.0384	0.7062	-0.0132	0.70631	0.73245	213.298	11.021	0.33001	4043.4
42.7692	0.7062	-0.0066	0.70626	0.73709	213.466	11.028	0.33004	4044.0
42.5000	0.7062	0.0000	0.70624	0.74176	213.526	11.030	0.33007	4044.2

CBNF SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.8319 ENTRALPY=44.3131
GAMMA (AVG.)=1.1480 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.8319	0.7092	-0.0573	0.71149	0.70183	310.436	12.303	0.29488	4999.4
44.5987	0.7094	-0.0516	0.71127	0.70585	311.744	12.349	0.29504	5001.4
44.3656	0.7096	-0.0458	0.71107	0.70984	312.941	12.390	0.29518	5003.1
44.1324	0.7098	-0.0401	0.71090	0.71381	313.941	12.425	0.29530	5004.6
43.8992	0.7099	-0.0344	0.71074	0.71778	314.834	12.456	0.29541	5005.9
43.6660	0.7100	-0.0287	0.71062	0.72174	315.593	12.483	0.29550	5007.0
43.4328	0.7101	-0.0230	0.71051	0.72572	316.217	12.505	0.29558	5007.9
43.1996	0.7102	-0.0172	0.71043	0.72970	316.766	12.522	0.29564	5008.6
42.9664	0.7103	-0.0115	0.71037	0.73370	317.060	12.534	0.29568	5009.2
42.7332	0.7103	-0.0058	0.71033	0.73772	317.276	12.542	0.29571	5009.4
42.5000	0.7103	0.0000	0.71032	0.74177	317.354	12.544	0.29572	5009.5

CBNF SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTRALPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=45.0085 ENTRALPY=43.0125
GAMMA (AVG.)=1.1764 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. 50.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
45.0085	0.7070	-0.0614	0.70966	0.69890	256.761	11.516	0.30994	4583.3
44.7577	0.7073	-0.0553	0.70941	0.70320	257.922	11.561	0.31014	4585.4
44.5068	0.7075	-0.0491	0.70918	0.70748	258.958	11.601	0.31031	4587.4
44.2560	0.7077	-0.0430	0.70898	0.71174	259.871	11.637	0.31046	4589.0
44.0051	0.7078	-0.0369	0.70881	0.71600	260.664	11.668	0.31059	4590.5
43.7543	0.7080	-0.0307	0.70866	0.72025	261.338	11.694	0.31070	4591.9
43.5034	0.7081	-0.0246	0.70854	0.72452	261.893	11.716	0.31079	4592.9
43.2525	0.7082	-0.0185	0.70845	0.72879	262.328	11.733	0.31085	4593.7
43.0017	0.7083	-0.0124	0.70838	0.73309	262.642	11.745	0.31091	4594.2
42.7508	0.7083	-0.0062	0.70833	0.73741	262.835	11.753	0.31094	4594.5
42.5000	0.7083	0.0000	0.70832	0.74176	262.904	11.755	0.31095	4594.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.6700 ENTRBPY=45.6552
GAMMA (AVG.)=1.1298 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.6700	0.7112	-0.0535	0.71318	0.70454	369.220	13.138	0.28196	5333.9
44.4530	0.7114	-0.0481	0.71298	0.70828	370.670	13.184	0.28210	5335.6
44.2360	0.7115	-0.0428	0.71281	0.71200	371.965	13.225	0.28222	5337.2
44.0190	0.7117	-0.0374	0.71266	0.71571	373.106	13.261	0.28233	5338.4
43.8020	0.7118	-0.0321	0.71253	0.71941	374.096	13.292	0.28242	5339.5
43.5850	0.7119	-0.0268	0.71242	0.72311	374.937	13.319	0.28250	5340.5
43.3680	0.7120	-0.0214	0.71233	0.72681	375.628	13.341	0.28256	5341.3
43.1510	0.7121	-0.0161	0.71226	0.73052	376.170	13.358	0.28261	5342.0
42.9340	0.7121	-0.0107	0.71220	0.73425	376.562	13.370	0.28265	5342.4
42.7170	0.7122	-0.0054	0.71217	0.73799	376.802	13.377	0.28267	5342.7
42.5000	0.7122	-0.0000	0.71216	0.74176	376.887	13.380	0.28268	5342.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRBPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.5242 ENTRBPY=47.0315
GAMMA (AVG.)=1.1204 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
44.8242	0.7130	-0.0501	0.71471	0.70699	433.120	14.007	0.27101	5600.8
44.6218	0.7131	-0.0450	0.71454	0.71049	434.709	14.052	0.27113	5602.3
44.4194	0.7133	-0.0400	0.71439	0.71397	436.127	14.093	0.27124	5603.9
43.9170	0.7134	-0.0350	0.71426	0.71743	437.377	14.129	0.27133	5605.0
43.7145	0.7135	-0.0300	0.71414	0.72089	438.462	14.160	0.27141	5606.0
43.5121	0.7136	-0.0250	0.71405	0.72435	439.383	14.186	0.27148	5606.9
43.3097	0.7137	-0.0201	0.71397	0.72780	440.140	14.209	0.27154	5607.5
43.1073	0.7137	-0.0151	0.71390	0.73127	440.733	14.225	0.27158	5608.1
42.9048	0.7138	-0.0101	0.71386	0.73475	441.161	14.238	0.27162	5608.5
42.7024	0.7138	-0.0050	0.71383	0.73825	441.424	14.245	0.27163	5608.7
42.5000	0.7138	0.0000	0.71382	0.74177	441.517	14.248	0.27164	5608.8

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.3980 ENTRØPY=48.4444
GAMMA (AVG.)=1.1184 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.3980	0.7145	-0.0471	0.71604	0.70912	502.131	14.868	0.26206	5824.8
44.2082	0.7146	-0.0423	0.71590	0.71240	503.859	14.913	0.26216	5826.3
44.0184	0.7148	-0.0376	0.71576	0.71567	505.402	14.954	0.26226	5827.4
43.8286	0.7149	-0.0329	0.71565	0.71892	506.762	14.989	0.26235	5828.7
43.6388	0.7150	-0.0282	0.71555	0.72217	507.942	15.020	0.26242	5829.6
43.4490	0.7151	-0.0235	0.71546	0.72541	508.944	15.047	0.26248	5830.4
43.2592	0.7151	-0.0189	0.71539	0.72866	509.767	15.068	0.26254	5831.2
43.0694	0.7152	-0.0142	0.71533	0.73192	510.412	15.085	0.26257	5831.6
42.8796	0.7152	-0.0094	0.71529	0.73518	510.878	15.097	0.26260	5832.1
42.6898	0.7153	-0.0047	0.71527	0.73846	511.163	15.105	0.26262	5832.2
42.5000	0.7153	-0.0000	0.71526	0.74176	511.265	15.108	0.26263	5832.2

CONE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.2929 ENTRØPY=49.8935
GAMMA (AVG.)=1.1225 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
44.2929	0.7158	-0.0445	0.71716	0.71091	576.259	15.678	0.25507	6030.9
44.1136	0.7159	-0.0401	0.71703	0.71401	578.132	15.723	0.25517	6032.2
43.9343	0.7160	-0.0356	0.71691	0.71709	579.805	15.763	0.25526	6033.5
43.7550	0.7161	-0.0312	0.71681	0.72017	581.281	15.799	0.25533	6034.6
43.5757	0.7162	-0.0267	0.71672	0.72324	582.561	15.830	0.25540	6035.6
43.3964	0.7163	-0.0223	0.71664	0.72631	583.647	15.856	0.25546	6036.3
43.2172	0.7164	-0.0178	0.71658	0.72938	584.540	15.878	0.25551	6037.1
43.0379	0.7164	-0.0134	0.71653	0.73246	585.240	15.895	0.25555	6037.6
42.8586	0.7164	-0.0089	0.71649	0.73554	585.745	15.907	0.25557	6037.9
42.6793	0.7165	-0.0045	0.71647	0.73865	586.053	15.914	0.25559	6038.2
42.5000	0.7165	-0.0000	0.71646	0.74176	586.163	15.917	0.25559	6038.3

CRNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=44.1310 ENTRPHY=53.6506
GAMMA (AVG.)=1.1456 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.1310	0.7177	-0.0406	0.71890	0.71367	783.962	17.133	0.24564	6651.9
43.9679	0.7179	-0.0366	0.71879	0.71649	786.278	17.177	0.24573	6653.8
43.8048	0.7180	-0.0325	0.71869	0.71930	788.348	17.217	0.24581	6655.3
43.6417	0.7180	-0.0284	0.71860	0.72210	790.175	17.251	0.24589	6656.8
43.4786	0.7181	-0.0244	0.71853	0.72489	791.760	17.281	0.24595	6658.0
43.3155	0.7182	-0.0203	0.71846	0.72769	793.105	17.307	0.24600	6659.0
43.1524	0.7182	-0.0163	0.71841	0.73049	794.210	17.328	0.24605	6659.9
42.9893	0.7183	-0.0122	0.71837	0.73329	795.076	17.344	0.24608	6660.4
42.8262	0.7183	-0.0082	0.71834	0.73610	795.700	17.356	0.24610	6661.0
42.6631	0.7183	-0.0041	0.71832	0.73893	796.082	17.364	0.24612	6661.2
42.5000	0.7183	-0.0000	0.71832	0.74176	796.218	17.366	0.24612	6661.4

CRNE SEMI-ANGLE=42.5
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRPHY=31.0722

FLOW PROPERTIES

SHOCK ANGLE=44.1329 ENTRPHY=57.5981
GAMMA (AVG.)=1.2031 STAG. ENTHALPY=8.815E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
44.1329	0.7177	-0.0407	0.71888	0.71366	1023.673	17.122	0.25180	7806.4
43.9696	0.7178	-0.0366	0.71877	0.71648	1026.695	17.164	0.25195	7809.4
43.8063	0.7179	-0.0325	0.71867	0.71928	1029.397	17.202	0.25209	7812.1
43.6430	0.7180	-0.0285	0.71858	0.72208	1031.782	17.235	0.25221	7814.5
43.4797	0.7181	-0.0244	0.71851	0.72488	1033.852	17.264	0.25231	7816.4
43.3164	0.7182	-0.0204	0.71844	0.72768	1035.609	17.280	0.25239	7818.2
43.1532	0.7182	-0.0163	0.71839	0.73048	1037.054	17.308	0.25247	7819.8
42.9899	0.7182	-0.0122	0.71835	0.73328	1038.185	17.324	0.25252	7820.7
42.8266	0.7183	-0.0082	0.71832	0.73610	1039.001	17.336	0.25256	7821.5
42.6633	0.7183	-0.0041	0.71830	0.73892	1039.501	17.343	0.25259	7822.0
42.5000	0.7183	-0.0000	0.71829	0.74176	1039.679	17.345	0.25260	7822.3

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.= 3.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 3143.6 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=58.9632 ENTROPY=32.6295
GAMMA (AVG.)=1.3800 STAG. ENTHALPY=7.6853E 06 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.9632	0.5155	-0.2487	0.57233	0.57954	7.565	3.444	1.02979	557.5
57.5669	0.5212	-0.2243	0.56737	0.59838	7.687	3.485	1.04809	560.0
56.1706	0.5263	-0.2000	0.56298	0.61727	7.796	3.520	1.06499	562.2
54.7743	0.5308	-0.1757	0.55911	0.63636	7.892	3.552	1.08052	564.1
53.37.3	0.5347	-0.1514	0.55573	0.65578	7.976	3.579	1.09461	565.7
51.9816	0.5381	-0.1269	0.55281	0.67564	8.048	3.602	1.10718	567.1
50.5853	0.5408	0.1022	0.55036	0.69604	8.109	3.622	1.11806	568.3
49.1890	0.5429	-0.0773	0.54839	0.71710	8.158	3.638	1.12704	569.2
47.7926	0.5444	-0.0520	0.54690	0.73893	8.194	3.650	1.13389	569.9
46.3953	0.5453	-0.0263	0.54595	0.76165	8.217	3.657	1.13831	570.4
45.0000	0.5456	0.0000	0.54558	0.78540	8.226	3.660	1.13996	570.5

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=54.8642 ENTROPY=33.2393
GAMMA (AVG.)=1.3573 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.8642	0.5754	-0.1950	0.60760	0.63079	12.408	4.193	0.77137	751.2
53.8778	0.5786	-0.1756	0.60467	0.64565	12.574	4.234	0.77768	753.8
52.8913	0.5814	-0.1564	0.60208	0.66043	12.722	4.271	0.78332	756.2
51.9049	0.5839	-0.1371	0.59981	0.67524	12.852	4.303	0.78834	758.2
50.9185	0.5861	-0.1179	0.59783	0.69014	12.966	4.331	0.79275	760.0
49.9321	0.5879	-0.0987	0.59614	0.70522	13.063	4.355	0.79655	761.4
48.9457	0.5894	-0.0793	0.59473	0.72052	13.144	4.375	0.79973	762.7
47.9592	0.5906	-0.0598	0.59360	0.73612	13.209	4.391	0.80228	763.7
46.9728	0.5914	-0.0401	0.59277	0.75209	13.256	4.402	0.80416	764.4
45.9864	0.5919	-0.0202	0.59224	0.76849	13.286	4.410	0.80535	764.9
45.0000	0.5920	-0.0000	0.59203	0.78540	13.297	4.412	0.80579	765.0

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=53.0549 ENTRPHY=33.8940
GAMMA (AVG.)=1.3354 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
53.0549	0.6010	-0.1663	0.622360	0.65597	18.703	4.804	0.66639	988.2
52.2494	0.6032	-0.1497	0.62151	0.66862	18.921	4.846	0.67011	991.1
51.4439	0.6052	-0.1332	0.61966	0.68118	19.115	4.883	0.67343	993.6
50.6384	0.6069	-0.1168	0.61804	0.69372	19.286	4.916	0.67636	995.8
49.8329	0.6084	-0.1003	0.61662	0.70631	19.435	4.945	0.67891	997.8
49.0274	0.6097	-0.0839	0.61542	0.71898	19.563	4.969	0.68110	999.4
48.2219	0.6107	-0.0674	0.61442	0.73179	19.669	4.989	0.68293	1000.8
47.4165	0.6115	-0.0507	0.61363	0.74479	19.753	5.005	0.68437	1001.8
46.6110	0.6121	-0.0340	0.61304	0.75803	19.814	5.017	0.68544	1002.6
45.8055	0.6124	-0.0171	0.61267	0.77154	19.853	5.024	0.68610	1003.1
45.0000	0.6125	-0.0000	0.61253	0.78540	19.867	5.027	0.68655	1003.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.0244 ENTRPHY=34.5471
GAMMA (AVG.)=1.3193 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHB	MU	T (K)
52.0244	0.6153	-0.1486	0.63299	0.67102	26.413	5.304	0.60707	1264.1
51.3220	0.6170	-0.1337	0.63134	0.68228	26.691	5.346	0.60972	1267.3
50.6195	0.6185	-0.1190	0.62988	0.69346	26.939	5.384	0.61208	1270.1
49.9171	0.6199	-0.1042	0.62859	0.70461	27.157	5.417	0.61416	1272.6
49.2146	0.6211	-0.0895	0.62748	0.71579	27.347	5.446	0.61597	1274.7
48.5122	0.6220	-0.0748	0.62653	0.72702	27.509	5.470	0.61752	1276.6
47.8098	0.6229	-0.0600	0.62574	0.73834	27.643	5.490	0.61880	1278.1
47.1073	0.6235	-0.0452	0.62512	0.74981	27.750	5.506	0.61982	1279.3
46.4049	0.6239	-0.0303	0.62466	0.76144	27.828	5.518	0.62056	1280.1
45.7024	0.6242	-0.0152	0.62437	0.77329	27.876	5.525	0.62103	1280.7
45.0000	0.6243	-0.0000	0.62426	0.78540	27.894	5.528	0.62120	1280.9

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8982.9 FT./SEC. ENTRØPV=31.8722

FLOW PROPERTIES

SHOCK ANGLE=50.9109 ENTRØPV=35.7862
GAMMA (AVG.)=1.3015 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
50.9109	0.6305	-0.1283	0.64343	0.68784	46.056	6.050	0.54314	1932.3
50.3198	0.6318	-0.1154	0.64222	0.69751	46.479	6.093	0.54490	1936.4
49.7287	0.6329	-0.1027	0.64114	0.70711	46.854	6.131	0.54646	1940.0
49.1376	0.6338	-0.0899	0.64019	0.71668	47.185	6.164	0.54784	1943.2
48.5465	0.6347	-0.0772	0.63937	0.72626	47.473	6.193	0.54904	1945.9
47.9554	0.6354	-0.0645	0.63868	0.73586	47.719	6.217	0.55006	1948.2
47.3643	0.6360	-0.0517	0.63810	0.74553	47.922	6.238	0.55090	1950.2
46.7733	0.6365	-0.0389	0.63764	0.75529	48.082	6.254	0.55156	1951.7
46.1822	0.6368	-0.0260	0.63731	0.76517	48.200	6.266	0.55205	1952.8
45.5911	0.6370	-0.0131	0.63710	0.77519	48.272	6.273	0.55235	1953.5
45.0000	0.6370	0.0000	0.63702	0.78540	48.298	6.275	0.55246	1953.7

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPV=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.7008 ENTRØPV=37.0323
GAMMA (AVG.)=1.1206 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
49.7008	0.6468	-0.1051	0.65526	0.70631	71.210	7.255	0.44206	2436.9
49.2307	0.6476	-0.0945	0.65444	0.71429	71.750	7.304	0.44283	2438.6
48.7606	0.6483	-0.0840	0.65372	0.72218	72.230	7.347	0.44348	2440.1
48.2906	0.6489	-0.0735	0.65309	0.73001	72.652	7.385	0.44403	2441.5
47.8205	0.6495	-0.0631	0.65255	0.73782	73.017	7.418	0.44455	2442.5
47.3504	0.6500	-0.0526	0.65208	0.74563	73.328	7.446	0.44497	2443.4
46.8803	0.6503	-0.0422	0.65170	0.75346	73.584	7.469	0.44534	2444.4
46.4102	0.6506	-0.0317	0.65140	0.76134	73.785	7.487	0.44561	2444.9
45.9401	0.6508	-0.0212	0.65119	0.76928	73.932	7.501	0.44583	2445.3
45.4700	0.6510	-0.0106	0.65105	0.77730	74.022	7.508	0.44592	2445.7
45.0000	0.6510	0.0000	0.65100	0.78544	74.054	7.512	0.44599	2445.7

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=48.6663 ENTRØPY=38.2567
GAMMA (AVG.)=1.1180 STAG. ENTHALPY=8.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.6663	0.6604	-0.0838	0.66573	0.72313	101.975	8.957	0.38698	2715.6
48.2997	0.6609	-0.0754	0.66523	0.72940	102.584	9.004	0.38746	2717.4
47.9331	0.6614	-0.0670	0.66478	0.73561	103.126	9.046	0.38787	2718.6
47.5664	0.6618	-0.0587	0.66438	0.74180	103.603	9.083	0.38828	2719.7
47.1998	0.6621	-0.0503	0.66404	0.74796	104.016	9.114	0.38858	2721.0
46.8332	0.6624	-0.0420	0.66375	0.75412	104.368	9.142	0.38886	2721.6
46.4665	0.6627	-0.0336	0.66351	0.76030	104.657	9.164	0.38909	2722.4
46.0999	0.6628	-0.0253	0.66332	0.76649	104.884	9.183	0.38927	2722.6
45.7333	0.6630	-0.0169	0.66318	0.77273	105.049	9.195	0.38938	2723.2
45.3666	0.6630	-0.0085	0.66310	0.77902	105.150	9.203	0.38946	2723.4
45.0000	0.6631	-0.0000	0.66307	0.78538	105.187	9.205	0.38951	2723.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=48.0775 ENTRØPY=39.5117
GAMMA (AVG.)=1.1556 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
48.0775	0.6681	-0.0712	0.67190	0.73296	138.376	10.452	0.35903	3013.7
47.7697	0.6685	-0.0640	0.67154	0.73822	139.070	10.498	0.35940	3015.2
47.4620	0.6688	-0.0569	0.67122	0.74346	139.689	10.537	0.35973	3016.8
47.1542	0.6691	-0.0498	0.67094	0.74867	140.235	10.574	0.36003	3017.8
46.8465	0.6693	-0.0427	0.67069	0.75387	140.709	10.604	0.36028	3019.1
46.5387	0.6695	-0.0356	0.67048	0.75907	141.112	10.630	0.36048	3020.0
46.2310	0.6697	-0.0286	0.67031	0.76428	141.443	10.651	0.36067	3021.0
45.9232	0.6698	-0.0214	0.67018	0.76951	141.703	10.669	0.36081	3021.5
45.6155	0.6699	-0.0143	0.67008	0.77476	141.891	10.682	0.36090	3021.7
45.3077	0.6700	-0.0072	0.67002	0.78006	142.007	10.688	0.36097	3022.3
45.0000	0.6700	0.0000	0.66999	0.78540	142.048	10.691	0.36097	3022.3

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.8265 ENTROPY=40.9625
GAMMA (AVG.)=1.2149 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.8265	0.6714	-0.0657	0.67458	0.73720	180.405	11.283	0.35232	3457.0
47.5439	0.6717	-0.0591	0.67427	0.74203	181.236	11.326	0.35263	3459.2
47.2612	0.6719	-0.0525	0.67400	0.74683	181.977	11.365	0.35292	3461.2
46.9786	0.6722	-0.0460	0.67376	0.75162	182.632	11.399	0.35318	3462.9
46.6959	0.6724	-0.0394	0.67355	0.75640	183.200	11.427	0.35339	3464.8
46.4133	0.6726	-0.0329	0.67338	0.76118	183.683	11.453	0.35359	3465.9
46.1306	0.6727	-0.0264	0.67323	0.76598	184.080	11.473	0.35374	3467.1
45.8479	0.6728	-0.0198	0.67312	0.77079	184.392	11.489	0.35388	3467.8
45.5653	0.6729	-0.0132	0.67303	0.77562	184.618	11.501	0.35397	3468.5
45.2826	0.6729	-0.0066	0.67298	0.78043	184.756	11.507	0.35401	3469.0
45.0000	0.6730	0.0000	0.67296	0.78540	184.806	11.511	0.35402	3468.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NR.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.9072 ENTROPY=42.3673
GAMMA (AVG.)=1.2034 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.9072	0.6703	-0.0675	0.67372	0.73585	228.072	11.001	0.35565	4314.1
47.6165	0.6707	-0.0607	0.67339	0.74081	229.153	11.046	0.35594	4316.8
47.3257	0.6709	-0.0540	0.67310	0.74575	230.119	11.086	0.35620	4319.2
47.0350	0.6712	-0.0472	0.67285	0.75067	230.971	11.121	0.35643	4321.3
46.7443	0.6714	-0.0405	0.67263	0.75559	231.711	11.152	0.35662	4323.1
46.4536	0.6716	-0.0338	0.67245	0.76051	232.339	11.178	0.35679	4324.8
46.1629	0.6717	-0.0271	0.67229	0.76543	232.857	11.199	0.35693	4326.0
45.8721	0.6719	-0.0203	0.67217	0.77038	233.263	11.216	0.35704	4326.9
45.5814	0.6719	-0.0136	0.67208	0.77535	233.557	11.229	0.35712	4327.6
45.2907	0.6720	-0.0068	0.67203	0.78035	233.738	11.236	0.35716	4328.1
45.0000	0.6720	0.0000	0.67201	0.78540	233.802	11.239	0.35718	4328.3

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.6667 ENTROPY=43.6133
GAMMA (AVG.)=1.1616 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.6667	0.6734	-0.0622	0.67631	0.73981	281.268	11.881	0.33386	4788.1
47.4000	0.6737	-0.0560	0.67603	0.74438	282.458	11.927	0.33407	4790.1
47.1333	0.6740	-0.0498	0.67579	0.74893	283.596	11.968	0.33427	4791.9
46.8667	0.6742	-0.0435	0.67557	0.75347	284.564	12.003	0.33444	4793.6
46.6000	0.6744	-0.0373	0.67539	0.75800	285.404	12.034	0.33459	4795.0
46.3333	0.6745	-0.0311	0.67523	0.76252	286.117	12.061	0.33471	4796.1
46.0666	0.6746	-0.0249	0.67510	0.76705	286.705	12.082	0.33482	4797.2
45.8000	0.6747	-0.0187	0.67500	0.77160	287.165	12.099	0.33489	4797.9
45.5333	0.6748	-0.0125	0.67492	0.77617	287.498	12.112	0.33495	4798.4
45.2666	0.6748	-0.0063	0.67488	0.78077	287.702	12.119	0.33499	4798.7
45.0000	0.6749	0.0000	0.67486	0.78540	287.775	12.122	0.33500	4798.9

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.4707 ENTROPY=45.0000
GAMMA (AVG.)=1.1375 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.4707	0.6760	-0.0579	0.67844	0.74307	340.070	12.727	0.31749	5181.3
47.2236	0.6762	-0.0521	0.67820	0.74732	341.452	12.773	0.31767	5183.2
46.9766	0.6764	-0.0463	0.67799	0.75155	342.685	12.814	0.31783	5184.7
46.7295	0.6766	-0.0405	0.67781	0.75576	343.773	12.850	0.31798	5186.2
46.4824	0.6768	-0.0347	0.67765	0.75997	344.717	12.881	0.31810	5187.4
46.2353	0.6769	-0.0290	0.67751	0.76417	345.518	12.908	0.31821	5188.3
45.9883	0.6770	-0.0232	0.67740	0.76838	346.177	12.929	0.31829	5189.2
45.7412	0.6771	-0.0174	0.67731	0.77261	346.693	12.946	0.31836	5190.0
45.4941	0.6771	-0.0116	0.67724	0.77684	347.067	12.959	0.31841	5190.3
45.2470	0.6772	-0.0058	0.67720	0.78111	347.295	12.966	0.31844	5190.6
45.0000	0.6772	0.0000	0.67719	0.78540	347.377	12.969	0.31845	5190.6

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.2926 ENTRØPY=46.4236
GAMMA (AVG.)=1.1235 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
47.2926	0.6783	-0.0539	0.68039	0.74606	406.471	13.624	0.30356	5490.6
47.0633	0.6785	-0.0485	0.68019	0.75001	405.999	13.670	0.30371	5492.2
46.8340	0.6786	-0.0431	0.68001	0.75394	407.363	13.711	0.30385	5493.5
46.6048	0.6788	-0.0377	0.67985	0.75786	408.566	13.747	0.30398	5494.8
46.3755	0.6789	-0.0324	0.67971	0.76177	409.610	13.778	0.30408	5495.9
46.1463	0.6791	-0.0270	0.67959	0.76568	410.495	13.805	0.30417	5496.8
45.9170	0.6791	-0.0216	0.67949	0.76959	411.224	13.826	0.30424	5497.5
45.6877	0.6792	-0.0162	0.67941	0.77352	411.795	13.844	0.30430	5498.1
45.4585	0.6793	-0.0108	0.67936	0.77746	412.207	13.856	0.30435	5498.6
45.2292	0.6793	-0.0054	0.67932	0.78141	412.459	13.863	0.30437	5498.8
45.0000	0.6793	0.0000	0.67931	0.78540	412.550	13.866	0.30438	5498.8

CONE SEMI-ANGLE=45.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.1367 ENTRØPY=47.8864
GAMMA (AVG.)=1.1184 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
47.1367	0.6803	-0.0504	0.68212	0.74868	474.474	14.533	0.29209	5740.3
46.9230	0.6804	-0.0454	0.68194	0.75237	476.147	14.579	0.29222	5741.9
46.7093	0.6806	-0.0403	0.68178	0.75604	477.640	14.620	0.29235	5743.1
46.4956	0.6807	-0.0353	0.68164	0.75970	478.957	14.656	0.29245	5744.3
46.2820	0.6808	-0.0303	0.68152	0.76335	480.100	14.687	0.29255	5745.3
46.0683	0.6809	-0.0252	0.68141	0.76700	481.070	14.714	0.29263	5746.0
45.8546	0.6810	-0.0202	0.68133	0.77066	481.867	14.735	0.29270	5746.8
45.6410	0.6811	-0.0152	0.68126	0.77432	482.492	14.752	0.29274	5747.3
45.4273	0.6811	-0.0101	0.68121	0.77799	482.943	14.765	0.29278	5747.6
45.2136	0.6812	-0.0051	0.68118	0.78168	483.219	14.772	0.29281	5748.0
45.0000	0.6812	0.0000	0.68117	0.78540	483.317	14.775	0.29281	5748.0

CONE SEMI-ANGLE=45.0
 FREE STREAM CONDITIONS

MACH NR.=28.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 20340.0 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=47.0059 ENTR0PY=49.3890
 GAMMA (AVG.)=1.1205 STAG. ENTHALPY=4.3318E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
47.0059	0.6819	-0.0475	0.68357	0.75090	550.081	15.406	0.28304	5960.1
46.8053	0.6821	-0.0427	0.68341	0.75436	551.902	15.452	0.28310	5961.5
46.6047	0.6822	-0.0380	0.68327	0.75781	553.529	15.492	0.28327	5962.7
46.4041	0.6823	-0.0332	0.68315	0.76125	554.964	15.528	0.28337	5963.7
46.2035	0.6824	-0.0285	0.68304	0.76468	556.209	15.559	0.28346	5964.8
46.0029	0.6825	-0.0238	0.68295	0.76812	557.266	15.585	0.28353	5965.6
45.8023	0.6826	-0.0190	0.68287	0.77155	558.134	15.607	0.28359	5966.1
45.6017	0.6827	-0.0143	0.68282	0.77499	558.814	15.624	0.28363	5966.6
45.4011	0.6827	-0.0095	0.68277	0.77844	559.305	15.636	0.28367	5967.1
45.2006	0.6827	-0.0048	0.68275	0.78191	559.605	15.644	0.28369	5967.4
45.0000	0.6827	0.0000	0.68274	0.78540	559.713	15.646	0.28370	5967.6

CONE SEMI-ANGLE=45.0
 FREE STREAM CONDITIONS

MACH NR.=30.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 31435.8 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.9019 ENTR0PY=50.9299
 GAMMA (AVG.)=1.1278 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.9019	0.6832	-0.0451	0.68474	0.75267	631.291	16.187	0.27635	6179.7
46.7117	0.6834	-0.0406	0.68459	0.75595	633.274	16.232	0.27647	6181.4
46.5215	0.6835	-0.0361	0.68447	0.75922	635.045	16.273	0.27657	6182.6
46.3313	0.6836	-0.0316	0.68435	0.76249	636.608	16.308	0.27666	6183.8
46.1411	0.6837	-0.0271	0.68426	0.76574	637.963	16.339	0.27674	6184.6
45.9509	0.6838	-0.0226	0.68417	0.76900	639.114	16.365	0.27681	6185.5
45.7607	0.6839	-0.0181	0.68411	0.77226	640.059	16.386	0.27686	6186.3
45.5706	0.6839	-0.0136	0.68405	0.77552	640.800	16.403	0.27691	6186.9
45.3804	0.6840	-0.0091	0.68401	0.77880	641.334	16.415	0.27694	6187.2
45.1902	0.6840	-0.0045	0.68399	0.78209	641.661	16.422	0.27696	6187.5
45.0000	0.6840	0.0000	0.68398	0.78540	641.778	16.425	0.27696	6187.6

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.7675 ENTRPHY=54.9082
GAMMA (AVG.)=1.1522 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.7675	0.6850	-0.0420	0.68625	0.75496	858.852	17.334	0.26909	6942.7
46.5908	0.6851	-0.0378	0.68612	0.75801	861.359	17.377	0.26920	6944.8
46.4140	0.6852	-0.0336	0.68601	0.76105	863.598	17.417	0.26929	6946.5
46.2373	0.6853	-0.0294	0.68592	0.76409	865.575	17.451	0.26938	6948.1
46.0605	0.6854	-0.0252	0.68583	0.76712	867.290	17.480	0.26946	6949.5
45.8838	0.6854	-0.0210	0.68576	0.77015	868.745	17.506	0.26952	6950.6
45.7070	0.6855	-0.0168	0.68570	0.77318	869.942	17.526	0.26957	6951.7
45.5302	0.6855	-0.0126	0.68566	0.77622	870.878	17.543	0.26961	6952.4
45.3535	0.6856	-0.0084	0.68562	0.77926	871.554	17.555	0.26964	6952.8
45.1767	0.6856	-0.0042	0.68560	0.78232	871.967	17.562	0.26966	6953.3
45.0000	0.6856	0.0000	0.68559	0.78540	872.115	17.564	0.26967	6953.4

CONE SEMI-ANGLE=45.0
FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CCU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 41914.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=46.8605 ENTRPHY=58.9478
GAMMA (AVG.)=1.2243 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
46.8605	0.6838	-0.0441	0.68520	0.75342	1121.553	16.534	0.28491	8588.8
46.6745	0.6839	-0.0397	0.68506	0.75662	1124.987	16.576	0.28503	8593.2
46.4884	0.6840	-0.0353	0.68494	0.75981	1128.057	16.612	0.28514	8597.3
46.3024	0.6841	-0.0309	0.68483	0.76300	1130.767	16.644	0.28523	8600.9
46.1163	0.6842	-0.0265	0.68474	0.76618	1133.120	16.672	0.28531	8603.9
45.9303	0.6843	-0.0221	0.68466	0.76936	1135.117	16.696	0.28538	8606.4
45.7442	0.6844	-0.0177	0.68460	0.77255	1136.760	16.716	0.28543	8608.5
45.5581	0.6844	-0.0133	0.68455	0.77574	1138.046	16.731	0.28548	8610.2
45.3721	0.6845	-0.0089	0.68451	0.77895	1138.975	16.742	0.28551	8611.4
45.1860	0.6845	-0.0044	0.68449	0.78216	1139.543	16.749	0.28553	8612.1
45.0000	0.6845	0.0000	0.68448	0.78540	1139.745	16.751	0.28554	8612.5

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 4191.4 FT./SEC. ENTRØP/=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=58.4139 ENTRØPY=33.3619
GAMMA (AVG.)=1.3528 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
58.4139	0.5237	-0.1972	0.55962	0.65933	13.491	4.318	0.88889	793.0
57.3225	0.5272	-0.1777	0.55637	0.67543	13.666	4.360	0.89804	795.7
56.2311	0.5304	-0.1582	0.55350	0.69152	13.821	4.396	0.90630	798.0
55.1397	0.5332	-0.1388	0.55097	0.70769	13.958	4.429	0.91370	800.1
54.0483	0.5356	-0.1194	0.54876	0.72401	14.078	4.457	0.92025	801.9
52.9569	0.5377	-0.0999	0.54687	0.74055	14.180	4.481	0.92593	803.4
51.8655	0.5393	-0.0803	0.54529	0.75739	14.266	4.501	0.93072	804.6
50.7741	0.5407	-0.0606	0.54403	0.77459	14.334	4.516	0.93457	805.6
49.6828	0.5416	-0.0406	0.54310	0.79221	14.384	4.528	0.93743	806.4
48.5914	0.5421	-0.0205	0.54251	0.81034	14.416	4.535	0.93924	806.8
47.5000	0.5423	0.0000	0.54228	0.82903	14.427	4.538	0.93991	807.0

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 5239.3 FT./SEC. ENTRØPY=31.8722

FLØW PRØPERTIES

SHØCK ANGLE=56.3494 ENTRØPY=34.0435
GAMMA (AVG.)=1.3312 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
56.3494	0.5541	-0.1689	0.57926	0.68753	20.330	4.927	0.75331	1047.5
55.4645	0.5565	-0.1521	0.57695	0.70124	20.561	4.969	0.75932	1050.4
54.5795	0.5587	-0.1354	0.57489	0.71490	20.766	5.006	0.76280	1053.0
53.6946	0.5607	-0.1187	0.57308	0.72857	20.947	5.039	0.76678	1055.3
52.8096	0.5623	-0.1020	0.57151	0.74231	21.105	5.067	0.77027	1057.3
51.9247	0.5638	-0.0853	0.57017	0.75617	21.240	5.091	0.77326	1059.0
51.0398	0.5649	-0.0685	0.56906	0.77020	21.352	5.112	0.77575	1060.3
50.1548	0.5658	-0.0516	0.56817	0.78445	21.441	5.128	0.77774	1061.4
49.2699	0.5665	-0.0346	0.56752	0.79897	21.506	5.139	0.77920	1062.2
48.3849	0.5668	-0.0174	0.56710	0.81381	21.547	5.147	0.78012	1062.7
47.5000	0.5669	-0.0000	0.56695	0.82903	21.561	5.149	0.78045	1062.9

CBME SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NB.= 6.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6207.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=55.2027 ENTROPY=34.7191
GAMMA (AVG.)=1.3160 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.2027	0.5706	-0.1514	0.59040	0.70406	28.718	5.422	0.68151	1344.5
54.4324	0.5726	-0.1363	0.58856	0.71629	29.013	5.464	0.68499	1347.8
53.6622	0.5743	-0.1213	0.58693	0.72846	29.276	5.502	0.68809	1350.7
52.8919	0.5758	-0.1063	0.58550	0.74061	29.507	5.535	0.69084	1353.3
52.1216	0.5771	-0.0913	0.58426	0.75281	29.709	5.564	0.69323	1355.5
51.3513	0.5782	-0.0763	0.58320	0.76508	29.881	5.588	0.69528	1357.4
50.5811	0.5791	-0.0612	0.58232	0.77747	30.024	5.608	0.69698	1358.9
49.8108	0.5798	-0.0461	0.58163	0.79002	30.137	5.624	0.69833	1360.1
49.0405	0.5803	-0.0309	0.58111	0.80277	30.219	5.636	0.69932	1361.0
48.2702	0.5806	-0.0155	0.58079	0.81576	30.271	5.643	0.69994	1361.6
47.5000	0.5807	-0.0000	0.58067	0.82903	30.289	5.646	0.70016	1361.8

CBME SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NB.= 8.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8302.9 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=53.9853 ENTROPY=35.9925
GAMMA (AVG.)=1.2996 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.9853	0.5880	-0.1314	0.60249	0.72229	50.096	6.154	0.60696	2066.4
53.3367	0.5894	-0.1183	0.60113	0.73282	50.546	6.196	0.60922	2070.7
52.6882	0.5906	-0.1052	0.59992	0.74330	50.947	6.234	0.61124	2074.5
52.0397	0.5917	-0.0922	0.59886	0.75375	51.300	6.267	0.61302	2077.8
51.3912	0.5927	-0.0791	0.59794	0.76422	51.608	6.296	0.61457	2080.7
50.7426	0.5935	-0.0661	0.59716	0.77473	51.870	6.321	0.61589	2083.1
50.0941	0.5941	-0.0530	0.59651	0.78531	52.087	6.341	0.61699	2085.1
49.4456	0.5947	-0.0399	0.59599	0.79601	52.254	6.357	0.61785	2086.7
48.7970	0.5950	-0.0267	0.59562	0.80684	52.383	6.369	0.61848	2087.8
48.1485	0.5952	-0.0134	0.59538	0.81784	52.461	6.376	0.61888	2088.5
47.5000	0.5953	0.0000	0.59529	0.82903	52.489	6.379	0.61902	2088.8

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=52.4202 ENTRØPY=37.2960
GAMMA (AVG.)=1.1162 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.4202	0.6099	-0.1039	0.61864	0.74620	77.404	7.629	0.47771	2498.5
51.9282	0.6107	-0.0934	0.61780	0.75452	77.958	7.678	0.47860	2500.0
51.4362	0.6114	-0.0830	0.61705	0.76277	78.450	7.721	0.47940	2501.4
50.9442	0.6121	-0.0727	0.61640	0.77097	78.883	7.758	0.48009	2502.9
50.4521	0.6127	-0.0623	0.61583	0.77915	79.258	7.791	0.48070	2504.0
49.9601	0.6132	-0.0520	0.61536	0.78733	79.577	7.819	0.48119	2504.7
49.4681	0.6135	-0.0417	0.61496	0.79554	79.840	7.842	0.48162	2505.7
48.9760	0.6139	-0.0313	0.61465	0.80379	80.047	7.859	0.48194	2506.4
48.4840	0.6141	-0.0209	0.61442	0.81211	80.197	7.872	0.48220	2506.8
47.9920	0.6142	-0.0105	0.61428	0.82051	80.290	7.880	0.48236	2507.1
47.5000	0.6142	-0.0000	0.61423	0.82903	80.323	7.884	0.48239	2507.1

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=51.3502 ENTRØPY=38.5774
GAMMA (AVG.)=1.1245 STAG. ENTHALPY=9.1801E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
51.3502	0.6246	-0.0833	0.63008	0.76367	110.849	9.377	0.41969	2787.2
50.9651	0.6251	-0.0749	0.62955	0.77023	111.477	9.424	0.42026	2788.0
50.5801	0.6255	-0.0666	0.62908	0.77675	112.036	9.465	0.42078	2790.2
50.1951	0.6260	-0.0583	0.62867	0.78324	112.529	9.501	0.42121	2791.4
49.8101	0.6263	-0.0500	0.62831	0.78971	112.956	9.533	0.42161	2792.4
49.4251	0.6266	-0.0417	0.62801	0.79619	113.319	9.560	0.42194	2793.2
49.0401	0.6269	-0.0334	0.62776	0.80267	113.618	9.582	0.42219	2793.9
48.6550	0.6271	-0.0251	0.62756	0.80919	113.853	9.599	0.42241	2794.6
48.2700	0.6272	-0.0168	0.62742	0.81574	114.023	9.612	0.42254	2794.9
47.8850	0.6273	-0.0084	0.62733	0.82235	114.128	9.620	0.42267	2795.1
47.5000	0.6273	-0.0000	0.62730	0.82903	114.165	9.623	0.42270	2795.2

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 14670.0 FT./SEC. ENTRAPY=31.0722

FLOW PROPERTIES

SHOCK ANGLE=50.7972 ENTRAPY=39.9593
 GAMMA (AVG.)=1.1745 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.1972	0.6321	-0.0722	0.63617	0.77288	150.427	10.736	0.39506	3136.0
50.4674	0.6325	-0.0649	0.63578	0.77850	151.159	10.781	0.40205	3138.0
50.1377	0.6328	-0.0577	0.63543	0.78410	151.813	10.821	0.40247	3139.4
49.8080	0.6331	-0.0505	0.63512	0.78967	152.389	10.855	0.40282	3141.1
49.4783	0.6334	-0.0433	0.63486	0.79524	152.889	10.887	0.40313	3142.0
49.1486	0.6336	-0.0362	0.63463	0.80081	153.313	10.913	0.40340	3142.8
48.8188	0.6338	-0.0290	0.63444	0.80639	153.663	10.934	0.40363	3143.9
48.4891	0.6339	-0.0218	0.63430	0.81199	153.938	10.951	0.40379	3144.5
48.1594	0.6340	-0.0145	0.63419	0.81763	154.137	10.963	0.40392	3145.0
47.8297	0.6341	-0.0073	0.63412	0.82330	154.259	10.971	0.40398	3145.1
47.5000	0.6341	-0.0000	0.63410	0.82902	154.302	10.973	0.40401	3145.3

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 16765.7 FT./SEC. ENTRAPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=50.6793 ENTRAPY=41.4503
 GAMMA (AVG.)=1.2314 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.6793	0.6337	-0.0697	0.63748	0.77491	196.158	11.093	0.39698	3742.9
50.3614	0.6340	-0.0628	0.63712	0.78032	197.078	11.135	0.39742	3746.2
50.0435	0.6343	-0.0558	0.63679	0.78570	197.898	11.171	0.39778	3749.0
49.7255	0.6346	-0.0488	0.63651	0.79107	198.623	11.204	0.39812	3751.5
49.4076	0.6349	-0.0419	0.63626	0.79644	199.252	11.231	0.39841	3753.8
49.0897	0.6351	-0.0349	0.63605	0.80181	199.786	11.255	0.39866	3755.7
48.7717	0.6353	-0.0280	0.63587	0.80719	200.227	11.275	0.39885	3757.2
48.4538	0.6354	-0.0210	0.63574	0.81260	200.572	11.290	0.39901	3758.4
48.1359	0.6355	-0.0140	0.63564	0.81803	200.822	11.301	0.39913	3759.5
47.8179	0.6355	-0.0070	0.63558	0.82350	200.976	11.307	0.39918	3760.1
47.5000	0.6356	-0.0000	0.63555	0.82902	201.031	11.310	0.39922	3760.2

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 18861.5 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=50.5895 ENTROPY=42.8019
 GAMMA (AVG.)=1.1830 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.
 SHOCK ANGLE=50.3441 ENTROPY=44.2036
 GAMMA (AVG.)=1.1500 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.5895	0.6349	-0.0679	0.63849	0.77635	247.961	11.372	0.38282	4504.4
50.2806	0.6352	-0.0611	0.63815	0.78162	249.096	11.418	0.38314	4506.7
49.9716	0.6355	-0.0543	0.63784	0.78687	250.109	11.458	0.38343	4508.7
49.6626	0.6358	-0.0476	0.63757	0.79211	251.003	11.494	0.38368	4510.5
49.3537	0.6360	-0.0408	0.63733	0.79733	251.780	11.525	0.38389	4512.0
49.0447	0.6362	-0.0340	0.63713	0.80256	252.439	11.551	0.38408	4513.4
48.7358	0.6364	-0.0273	0.63697	0.80780	252.982	11.573	0.38423	4514.4
48.4268	0.6365	-0.0205	0.63684	0.81306	253.408	11.590	0.38435	4515.2
48.1179	0.6366	-0.0137	0.63675	0.81835	253.716	11.602	0.38444	4515.9
47.8089	0.6367	-0.0068	0.63669	0.82367	253.905	11.609	0.38449	4516.2
47.5000	0.6367	0.0000	0.63667	0.82903	253.973	11.612	0.38451	4516.4

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 20957.2 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=50.3441 ENTROPY=44.2036
 GAMMA (AVG.)=1.1500 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.3441	0.6382	-0.0629	0.64127	0.78040	305.804	12.237	0.36109	4968.2
50.0597	0.6385	-0.0566	0.64097	0.78528	307.099	12.282	0.36135	4970.2
49.7753	0.6387	-0.0503	0.64071	0.79013	308.255	12.323	0.36158	4971.8
49.4909	0.6390	-0.0440	0.64047	0.79497	309.275	12.359	0.36177	4973.4
49.2064	0.6392	-0.0378	0.64027	0.79980	310.160	12.390	0.36195	4974.7
48.9220	0.6393	-0.0315	0.64010	0.80463	310.912	12.416	0.36209	4976.0
48.6376	0.6395	-0.0252	0.63996	0.80946	311.530	12.438	0.36221	4976.8
48.3532	0.6395	-0.0189	0.63985	0.81431	312.015	12.455	0.36231	4977.4
48.0688	0.6396	-0.0126	0.63977	0.81919	312.365	12.467	0.36238	4978.0
47.7844	0.6397	-0.0063	0.63972	0.82409	312.580	12.475	0.36242	4978.4
47.5000	0.6397	0.0000	0.63970	0.82903	312.657	12.478	0.36243	4978.3

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NB.=22.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=50.1254 ENTRPHY=45.6665
GAMMA (AVG.)=1.1297 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
50.1254	0.6411	-0.0584	0.64376	0.78404	369.733	13.146	0.34308	5336.5
49.8629	0.6414	-0.0525	0.64351	0.78856	371.184	13.191	0.34329	5338.2
49.6003	0.6416	-0.0467	0.64328	0.79305	372.479	13.232	0.34348	5339.6
49.3378	0.6418	-0.0409	0.64308	0.79753	373.621	13.268	0.34365	5340.9
49.0753	0.6420	-0.0350	0.64291	0.80200	374.612	13.300	0.34379	5342.0
48.8127	0.6421	-0.0292	0.64276	0.80647	375.454	13.326	0.34392	5343.0
48.5502	0.6422	-0.0234	0.64264	0.81095	376.146	13.348	0.34402	5343.8
48.2876	0.6423	-0.0176	0.64255	0.81543	376.688	13.365	0.34409	5344.5
48.0251	0.6424	-0.0117	0.64248	0.81994	377.080	13.377	0.34414	5344.8
47.7625	0.6424	-0.0059	0.64243	0.82447	377.320	13.385	0.34418	5345.1
47.5000	0.6424	0.0000	0.64242	0.82903	377.406	13.388	0.34419	5345.2

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NB.=24.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.9313 ENTRPHY=47.1705
GAMMA (AVG.)=1.1198 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.9313	0.6437	-0.0543	0.64599	0.78730	439.750	14.092	0.32810	5625.0
49.6882	0.6439	-0.0489	0.64577	0.79149	441.352	14.138	0.32828	5626.4
49.4450	0.6441	-0.0434	0.64558	0.79566	442.783	14.179	0.32844	5627.7
49.2019	0.6443	-0.0380	0.64540	0.79982	444.044	14.215	0.32858	5628.8
48.9588	0.6444	-0.0326	0.64526	0.80397	445.138	14.246	0.32871	5629.8
48.7156	0.6446	-0.0272	0.64513	0.80812	446.067	14.273	0.32882	5630.7
48.4725	0.6447	-0.0218	0.64502	0.81227	446.831	14.294	0.32890	5631.4
48.2294	0.6447	-0.0163	0.64494	0.81643	447.429	14.311	0.32897	5632.0
47.9862	0.6448	-0.0109	0.64488	0.82061	447.861	14.324	0.32902	5632.4
47.7431	0.6448	-0.0055	0.64485	0.82481	448.126	14.331	0.32905	5632.6
47.5000	0.6448	0.0000	0.64483	0.82903	448.220	14.334	0.32906	5632.7

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.7659 ENTROPY=48.7177
GAMMA (AVG.)=1.1183 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.7659	0.6459	-0.0508	0.64790	0.79009	515.857	15.028	0.31614	5864.2
49.5393	0.6461	-0.0457	0.64771	0.79400	517.611	15.073	0.31630	5865.7
49.3127	0.6463	-0.0406	0.64754	0.79789	519.178	15.114	0.31645	5867.0
49.0861	0.6464	-0.0356	0.64739	0.80177	520.559	15.150	0.31657	5868.0
48.8595	0.6465	-0.0305	0.64726	0.80564	521.758	15.181	0.31668	5869.0
48.6329	0.6467	-0.0254	0.64715	0.80952	522.775	15.207	0.31678	5869.8
48.4064	0.6467	-0.0204	0.64706	0.81339	523.612	15.229	0.31685	5870.4
48.1798	0.6468	-0.0153	0.64699	0.81728	524.267	15.246	0.31691	5871.0
47.9532	0.6469	-0.0102	0.64694	0.82118	524.740	15.258	0.31695	5871.4
47.7266	0.6469	-0.0051	0.64691	0.82509	525.029	15.265	0.31698	5871.7
47.5000	0.6469	0.0000	0.64689	0.82903	525.133	15.268	0.31699	5871.7

CONE SEMI-ANGLE=47.5
FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.6326 ENTROPY=50.3078
GAMMA (AVG.)=1.1244 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.6326	0.6477	-0.0480	0.64946	0.79235	598.058	15.889	0.30714	6085.7
49.4193	0.6479	-0.0431	0.64929	0.79603	599.974	15.934	0.30728	6091.1
49.2061	0.6480	-0.0383	0.64914	0.79970	601.685	15.974	0.30741	6092.5
48.9928	0.6481	-0.0336	0.64900	0.80335	603.195	16.011	0.30753	6093.4
48.7795	0.6482	-0.0288	0.64889	0.80700	604.505	16.041	0.30763	6094.6
48.5663	0.6483	-0.0240	0.64879	0.81065	605.616	16.067	0.30771	6095.4
48.3530	0.6484	-0.0192	0.64871	0.81430	606.530	16.089	0.30778	6096.0
48.1398	0.6485	-0.0144	0.64865	0.81796	607.245	16.106	0.30784	6096.5
47.9265	0.6485	-0.0096	0.64860	0.82163	607.762	16.117	0.30788	6097.0
47.7132	0.6486	-0.0048	0.64857	0.82532	608.078	16.125	0.30790	6097.2
47.5000	0.6486	0.0000	0.64856	0.82903	608.191	16.128	0.30791	6097.3

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.4374 ENTR0PY=56.1182

GAMMA (AVG.)=1.1514 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.4374	0.6503	-0.0437	0.65175	0.79567	933.796	17.366	0.29583	7287.1
49.2437	0.6504	-0.0394	0.65161	0.79902	936.515	17.408	0.29597	7289.5
49.0499	0.6505	-0.0350	0.65148	0.80235	938.946	17.447	0.29609	7291.6
48.8562	0.6506	-0.0306	0.65137	0.80567	941.090	17.481	0.29619	7293.6
48.6625	0.6507	-0.0263	0.65127	0.80899	942.951	17.510	0.29628	7295.3
48.4687	0.6508	-0.0219	0.65119	0.81231	944.530	17.535	0.29635	7296.5
48.2750	0.6509	-0.0175	0.65113	0.81564	945.828	17.556	0.29642	7297.6
48.0812	0.6509	-0.0132	0.65107	0.81897	946.845	17.572	0.29646	7298.4
47.8875	0.6510	-0.0088	0.65103	0.82231	947.578	17.583	0.29650	7299.1
47.6937	0.6510	-0.0044	0.65101	0.82566	948.026	17.591	0.29652	7299.3
47.5000	0.6510	-0.0000	0.65100	0.82903	948.186	17.593	0.29653	7299.6

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTR0PY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=49.5327 ENTR0PY=51.9365

GAMMA (AVG.)=1.1342 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
49.5327	0.6490	-0.0458	0.65063	0.79405	686.357	16.610	0.30094	6336.2
49.3294	0.6492	-0.0412	0.65047	0.79756	688.454	16.655	0.30108	6337.6
49.1261	0.6493	-0.0366	0.65033	0.80106	690.327	16.695	0.30120	6339.1
48.9229	0.6494	-0.0321	0.65021	0.80454	691.980	16.730	0.30131	6340.3
48.7196	0.6495	-0.0275	0.65011	0.80802	693.414	16.761	0.30140	6341.4
48.5163	0.6496	-0.0229	0.65002	0.81150	694.631	16.786	0.30148	6342.3
48.3131	0.6497	-0.0183	0.64994	0.81499	695.631	16.808	0.30155	6343.0
48.1098	0.6497	-0.0138	0.64989	0.81848	696.415	16.824	0.30160	6343.6
47.9065	0.6498	-0.0092	0.64984	0.82198	696.980	16.836	0.30164	6344.1
47.7032	0.6498	-0.0046	0.64982	0.82550	697.325	16.844	0.30166	6344.3
47.5000	0.6498	0.0000	0.64981	0.82903	697.449	16.846	0.30167	6344.4

CONE SEMI-ANGLE=47.5

FREE STREAM CONDITIONS

MACH NO.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 41914.3 FT./SEC. ENTRØPY=31.9722

FLOW PROPERTIES

SHOCK ANGLE=49.5913 ENTRØPY=60.2627
GAMMA (AVG.)=1.1948 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
49.5913	0.6482	-0.0470	0.64994	0.79309	1219.498	16.187	0.31356	9363.1
49.3822	0.6484	-0.0423	0.64978	0.79669	1223.320	16.229	0.31371	9356.9
49.1730	0.6485	-0.0376	0.64963	0.80028	1226.737	16.268	0.31385	9370.2
48.9639	0.6487	-0.0329	0.64950	0.80385	1229.753	16.301	0.31396	9373.2
48.7548	0.6488	-0.0282	0.64939	0.80743	1232.371	16.331	0.31407	9375.7
48.5456	0.6489	-0.0235	0.64930	0.81101	1234.594	16.356	0.31416	9377.9
48.3365	0.6489	-0.0189	0.64922	0.81459	1236.421	16.376	0.31423	9379.6
48.1274	0.6490	-0.0142	0.64916	0.81817	1237.853	16.393	0.31429	9380.9
47.9182	0.6490	-0.0094	0.64911	0.82176	1238.886	16.404	0.31432	9382.0
47.7091	0.6491	-0.0047	0.64909	0.82539	1239.518	16.411	0.31435	9382.7
47.5000	0.6491	-0.0000	0.64908	0.82903	1239.744	16.414	0.31436	9382.8

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.= 4.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 4191.4 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=62.4145 ENTRPHY=33.4865
GAMMA (AVG.)=1.3484 STAG. ENTHALPY=1.1528E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
62.4145	0.4630	-0.1996	0.50418	0.68234	14.634	4.440	1.08364	836.6
61.1730	0.4671	-0.1799	0.50050	0.70004	14.817	4.481	1.10056	839.3
59.9316	0.4707	-0.1603	0.49724	0.71783	14.980	4.518	1.11626	841.7
58.6901	0.4739	-0.1407	0.49436	0.73580	15.124	4.550	1.13071	843.8
57.4486	0.4767	-0.1210	0.49184	0.75402	15.250	4.578	1.14380	845.6
56.2072	0.4791	-0.1013	0.48968	0.77256	15.358	4.602	1.15543	847.1
54.9657	0.4810	-0.0815	0.48787	0.79151	15.448	4.622	1.16544	848.4
53.7243	0.4825	-0.0615	0.48643	0.81091	15.520	4.638	1.17364	849.4
52.4828	0.4836	-0.0413	0.48535	0.83086	15.573	4.650	1.17983	850.1
51.2414	0.4842	-0.0208	0.48467	0.85141	15.606	4.657	1.18379	850.6
49.9999	0.4844	0.0000	0.48440	0.87267	15.619	4.660	1.18526	850.8

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.= 5.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 5239.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=59.8923 ENTRPHY=34.1896
GAMMA (AVG.)=1.3274 STAG. ENTHALPY=1.6469E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
59.8923	0.5016	-0.1716	0.53011	0.71573	21.998	5.042	0.87496	1107.6
58.9031	0.5044	-0.1545	0.52750	0.73076	22.241	5.083	0.88242	1110.6
57.9139	0.5069	-0.1375	0.52519	0.74579	22.457	5.121	0.88916	1113.2
56.9246	0.5091	-0.1206	0.52315	0.76088	22.648	5.153	0.89518	1115.6
55.9354	0.5110	-0.1037	0.52137	0.77608	22.814	5.182	0.90048	1117.6
54.9462	0.5126	-0.0867	0.51985	0.79145	22.956	5.208	0.90505	1119.3
53.9569	0.5139	-0.0696	0.51859	0.80704	23.074	5.226	0.90889	1120.7
52.9677	0.5149	-0.0525	0.51759	0.82291	23.168	5.242	0.91196	1121.8
51.9785	0.5156	-0.0352	0.51684	0.83909	23.237	5.254	0.91422	1122.7
50.9892	0.5161	-0.0177	0.51638	0.85566	23.280	5.261	0.91565	1123.2
50.0000	0.5162	-0.0000	0.51619	0.87266	23.296	5.264	0.91617	1123.4

CRNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 6.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 6287.2 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=58.5622 ENTRPHY=34.8847
GAMMA (AVG.)=1.3131 STAG. ENTHALPY=2.2508E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
58.5622	0.5215	-0.1543	0.54387	0.73454	31.056	5.531	0.78007	1425.3
57.7060	0.5237	-0.1389	0.54181	0.74794	31.368	5.573	0.78497	1428.7
56.8498	0.5256	-0.1236	0.53997	0.76131	31.645	5.611	0.78936	1431.7
55.9935	0.5274	-0.1083	0.53836	0.77470	31.890	5.644	0.79326	1434.4
55.1373	0.5288	-0.0931	0.53696	0.78815	32.103	5.672	0.79667	1436.7
54.2811	0.5301	-0.0778	0.53576	0.80172	32.285	5.697	0.79960	1438.6
53.4249	0.5311	-0.0624	0.53477	0.81544	32.436	5.717	0.80205	1440.2
52.5686	0.5319	-0.0470	0.53398	0.82935	32.556	5.733	0.80398	1441.5
51.7124	0.5325	-0.0315	0.53340	0.84349	32.643	5.745	0.80541	1442.4
50.8562	0.5328	-0.0158	0.53304	0.85791	32.698	5.752	0.80630	1443.0
49.9999	0.5329	-0.0000	0.53290	0.87266	32.718	5.755	0.80663	1443.2

CRNE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NR.= 8.00 ALTITUDE=20000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 8382.9 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=57.1910 ENTRPHY=36.1881
GAMMA (AVG.)=1.2980 STAG. ENTHALPY=3.7881E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
57.1910	0.5418	-0.1345	0.55827	0.75479	56.162	6.247	0.68782	2200.8
56.4719	0.5434	-0.1211	0.55674	0.76636	56.641	6.290	0.69089	2205.2
55.7528	0.5448	-0.1077	0.55537	0.77787	57.067	6.327	0.69364	2209.2
55.0337	0.5461	-0.0944	0.55417	0.78939	57.442	6.361	0.69606	2212.6
54.3146	0.5472	-0.0810	0.55313	0.80093	57.769	6.389	0.69818	2215.6
53.5955	0.5481	-0.0677	0.55224	0.81254	58.048	6.414	0.69999	2218.2
52.8764	0.5488	-0.0543	0.55151	0.82424	58.279	6.434	0.70149	2220.2
52.1573	0.5494	-0.0409	0.55093	0.83608	58.461	6.450	0.70268	2221.9
51.4382	0.5498	-0.0273	0.55050	0.84807	58.594	6.462	0.70355	2223.1
50.7191	0.5501	-0.0137	0.55023	0.86025	58.677	6.469	0.70408	2223.8
50.0000	0.5501	0.0000	0.55013	0.87267	58.707	6.472	0.70428	2224.1

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=10.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 10478.6 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=55.2002 ENTRPHY=37.5493

GAMMA (AVG.)=1.1140 STAG. ENTHALPY=5.7645E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
55.2002	0.5707	-0.1028	0.57989	0.78516	83.579	7.986	0.52087	2557.0
54.6802	0.5716	-0.0925	0.57901	0.79393	84.147	8.033	0.52199	2558.8
54.1602	0.5724	-0.0822	0.57823	0.80263	84.651	8.076	0.52295	2560.0
53.6401	0.5730	-0.0720	0.57755	0.81128	85.095	8.114	0.52377	2561.3
53.1201	0.5736	-0.0617	0.57696	0.81992	85.480	8.146	0.52452	2562.5
52.6001	0.5742	-0.0515	0.57646	0.82857	85.807	8.173	0.52514	2563.5
52.0801	0.5746	-0.0413	0.57604	0.83725	86.077	8.196	0.52564	2564.1
51.5600	0.5749	-0.0310	0.57572	0.84598	86.289	8.214	0.52608	2564.7
51.0400	0.5751	-0.0207	0.57548	0.85477	86.443	8.227	0.52637	2565.2
50.5200	0.5752	-0.0104	0.57533	0.86366	86.538	8.235	0.52656	2565.4
50.0000	0.5753	0.0000	0.57528	0.87267	86.572	8.238	0.52659	2565.6

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=12.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 12574.3 FT./SEC. ENTRPHY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=54.0826 ENTRPHY=38.8860

GAMMA (AVG.)=1.1330 STAG. ENTHALPY=8.1001E 07 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
54.0826	0.5866	-0.0830	0.59245	0.80339	119.677	9.759	0.45898	2858.6
53.6743	0.5872	-0.0747	0.59189	0.81033	120.325	9.806	0.45968	2860.0
53.2661	0.5877	-0.0664	0.59140	0.81723	120.902	9.846	0.46027	2861.6
52.8578	0.5881	-0.0581	0.59096	0.82410	121.411	9.883	0.46081	2862.7
52.4495	0.5885	-0.0498	0.59058	0.83097	121.853	9.914	0.46130	2863.8
52.0413	0.5888	-0.0416	0.59026	0.83783	122.228	9.941	0.46169	2864.6
51.6330	0.5891	-0.0333	0.59000	0.84471	122.537	9.963	0.46202	2865.3
51.2248	0.5893	-0.0250	0.58979	0.85162	122.779	9.979	0.46231	2866.0
50.8165	0.5894	-0.0167	0.58964	0.85858	122.955	9.993	0.46246	2866.0
50.4083	0.5895	-0.0084	0.58955	0.86559	123.063	10.000	0.46258	2866.4
50.0000	0.5895	0.0000	0.58951	0.87267	123.102	10.003	0.46262	2866.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NØ=14.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 14670.0 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=53.5034 SHØCK ANGLE=53.5034 ENTRØPY=40.2283
GAMMA (AVG.)=1.1874 STAG. ENTHALPY=1.1035E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
53.5034	0.5948	-0.0722	0.59913	0.81303	162.406	11.136	0.43258	3228.8
53.1531	0.5952	-0.0650	0.59872	0.81900	163.164	11.181	0.43310	3230.5
52.8027	0.5956	-0.0577	0.59835	0.82493	163.842	11.220	0.43359	3232.1
52.4524	0.5959	-0.0505	0.59802	0.83085	164.439	11.254	0.43397	3233.9
52.1020	0.5962	-0.0434	0.59774	0.83676	164.958	11.284	0.43434	3235.0
51.7517	0.5964	-0.0362	0.59750	0.84268	165.398	11.309	0.43464	3236.1
51.4013	0.5966	-0.0290	0.59730	0.84861	165.761	11.331	0.43489	3236.9
51.0510	0.5967	-0.0218	0.59714	0.85457	166.046	11.347	0.43509	3237.7
50.7006	0.5969	-0.0145	0.59703	0.86055	166.292	11.359	0.43524	3238.1
50.3503	0.5969	-0.0073	0.59696	0.86658	166.379	11.367	0.43530	3238.4
50.0000	0.5969	0.0000	0.59693	0.87266	166.424	11.369	0.43536	3238.7

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NØ=16.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 16765.7 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHØCK ANGLE=53.6355 SHØCK ANGLE=53.6355 ENTRØPY=41.9953
GAMMA (AVG.)=1.2247 STAG. ENTHALPY=1.4329E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
53.6355	0.5929	-0.0746	0.59759	0.81090	211.864	10.790	0.44863	4096.5
53.2720	0.5934	-0.0672	0.59715	0.81707	212.888	10.832	0.44897	4098.9
52.9084	0.5938	-0.0597	0.59675	0.82321	213.803	10.870	0.44945	4103.0
52.5449	0.5941	-0.0523	0.59640	0.82933	214.610	10.904	0.44987	4105.6
52.1813	0.5944	-0.0448	0.59610	0.83545	215.311	10.933	0.45023	4107.9
51.8178	0.5947	-0.0374	0.59584	0.84158	215.906	10.957	0.45055	4110.0
51.4542	0.5949	-0.0300	0.59563	0.84772	216.397	10.978	0.45080	4111.6
51.0906	0.5950	-0.0225	0.59546	0.85389	216.782	10.994	0.45100	4112.8
50.7271	0.5952	-0.0150	0.59534	0.86010	217.061	11.006	0.45114	4113.7
50.3635	0.5952	-0.0075	0.59527	0.86635	217.233	11.012	0.45123	4114.4
50.0000	0.5952	-0.0000	0.59524	0.87266	217.294	11.015	0.45126	4114.6

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=20.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 20957.2 FT./SEC. ENTRDPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=53.0450 ENTRDPY=44.7736

GAMMA (AVG.)=1.1407 STAG. ENTHALPY=2.2235E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.0450	0.6012	-0.0635	0.60453	0.82060	330.190	12.587	0.39240	5124.3
52.7405	0.6015	-0.0571	0.60421	0.82581	331.547	12.632	0.39271	5126.0
52.4360	0.6018	-0.0508	0.60392	0.83101	332.759	12.672	0.39298	5127.7
52.1315	0.6020	-0.0444	0.60367	0.83619	333.827	12.708	0.39322	5129.2
51.8270	0.6023	-0.0381	0.60345	0.84136	334.754	12.740	0.39343	5130.4
51.5225	0.6024	-0.0318	0.60327	0.84653	335.541	12.766	0.39359	5131.4
51.2180	0.6026	-0.0255	0.60312	0.85171	336.188	12.788	0.39374	5132.3
50.9135	0.6027	-0.0191	0.60300	0.85691	336.696	12.805	0.39385	5132.9
50.6090	0.6028	-0.0128	0.60291	0.86213	337.063	12.817	0.39393	5133.4
50.3045	0.6028	-0.0064	0.60286	0.86738	337.288	12.825	0.39398	5133.8
50.0000	0.6028	0.0000	0.60284	0.87267	337.369	12.827	0.39400	5133.9

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=18.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF

DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K

VELOCITY= 18861.5 FT./SEC. ENTRDPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=53.3152 ENTRDPY=43.2815

GAMMA (AVG.)=1.1693 STAG. ENTHALPY=1.8062E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
53.3152	0.5974	-0.0686	0.60134	0.81613	267.740	11.683	0.41613	4677.8
52.9837	0.5978	-0.0618	0.60096	0.82179	268.931	11.729	0.41651	4679.8
52.6522	0.5981	-0.0549	0.60063	0.82742	269.994	11.769	0.41684	4681.8
52.3206	0.5984	-0.0481	0.60034	0.83304	270.932	11.805	0.41714	4683.4
51.9891	0.5987	-0.0412	0.60008	0.83865	271.746	11.836	0.41740	4685.0
51.6576	0.5989	-0.0344	0.59986	0.84426	272.438	11.862	0.41761	4686.0
51.3261	0.5991	-0.0275	0.59969	0.84988	273.007	11.884	0.41779	4687.1
50.9945	0.5992	-0.0207	0.59955	0.85553	273.454	11.900	0.41793	4688.0
50.6630	0.5993	-0.0138	0.59944	0.86120	273.777	11.913	0.41803	4688.5
50.3315	0.5993	-0.0069	0.59938	0.86691	273.975	11.920	0.41809	4688.8
50.0000	0.5994	0.0000	0.59936	0.87267	274.046	11.923	0.41811	4689.1

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=22.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 23052.9 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.8018 ENTRØPY=46.3103

GAMMA (AVG.)=1.1243 STAG. ENTHALPY=2.6846E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
52.8018	0.6046	-0.0588	0.60742	0.82465	399.207	13.552	0.37252	5469.2
52.5216	0.6048	-0.0529	0.60715	0.82947	400.723	13.598	0.37277	5470.7
52.2414	0.6051	-0.0470	0.60691	0.83426	402.076	13.639	0.37299	5472.1
51.9612	0.6053	-0.0411	0.60669	0.83904	403.270	13.675	0.37319	5473.4
51.6810	0.6055	-0.0353	0.60651	0.84381	404.305	13.706	0.37336	5474.4
51.4009	0.6056	-0.0294	0.60635	0.84858	405.184	13.732	0.37351	5475.4
51.1207	0.6058	-0.0236	0.60622	0.85336	405.907	13.754	0.37363	5476.2
50.8405	0.6059	-0.0177	0.60612	0.85815	406.474	13.771	0.37372	5476.8
50.5603	0.6059	-0.0118	0.60604	0.86296	406.883	13.783	0.37379	5477.3
50.2801	0.6060	-0.0059	0.60600	0.86780	407.134	13.791	0.37383	5477.4
50.0000	0.6060	0.0000	0.60598	0.87267	407.224	13.794	0.37385	5477.5

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=24.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 25148.6 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.5913 ENTRØPY=47.8929

GAMMA (AVG.)=1.1184 STAG. ENTHALPY=3.1897E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHØ	MU	T (K)
52.5913	0.6075	-0.0546	0.60995	0.82819	474.797	14.538	0.35642	5741.5
52.3321	0.6077	-0.0492	0.60971	0.83265	476.470	14.583	0.35663	5743.0
52.0730	0.6079	-0.0437	0.60950	0.83709	477.964	14.624	0.35683	5744.2
51.8139	0.6081	-0.0382	0.60932	0.84152	479.281	14.660	0.35700	5745.4
51.5547	0.6083	-0.0328	0.60916	0.84595	480.424	14.691	0.35714	5746.3
51.2956	0.6084	-0.0273	0.60902	0.85037	481.394	14.718	0.35727	5747.1
51.0365	0.6085	-0.0219	0.60891	0.85479	482.192	14.739	0.35737	5747.8
50.7774	0.6086	-0.0164	0.60882	0.85923	482.816	14.756	0.35745	5748.3
50.5182	0.6087	-0.0110	0.60876	0.86369	483.268	14.769	0.35751	5748.8
50.2591	0.6087	-0.0055	0.60872	0.86816	483.544	14.776	0.35754	5749.0
50.0000	0.6087	0.0000	0.60871	0.87267	483.642	14.779	0.35756	5749.0

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=26.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 27244.3 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.4177 ENTROPY=49.5225
GAMMA (AVG.)=1.1209 STAG. ENTHALPY=3.7387E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.4177	0.6099	-0.0512	0.61204	0.83112	556.964	15.480	0.34402	5978.6
52.1759	0.6101	-0.0461	0.61184	0.83529	558.799	15.525	0.34421	5980.1
51.9341	0.6103	-0.0409	0.61165	0.83944	560.437	15.565	0.34439	5981.4
51.6924	0.6104	-0.0358	0.61149	0.84358	561.882	15.601	0.34453	5982.4
51.4506	0.6106	-0.0307	0.61135	0.84771	563.137	15.633	0.34467	5983.3
51.2088	0.6107	-0.0256	0.61123	0.85184	564.201	15.658	0.34478	5984.3
50.9671	0.6108	-0.0205	0.61114	0.85598	565.076	15.680	0.34487	5984.8
50.7253	0.6109	-0.0154	0.61106	0.86012	565.761	15.697	0.34494	5985.5
50.4835	0.6109	-0.0103	0.61100	0.86428	566.255	15.709	0.34499	5985.8
50.2417	0.6109	-0.0051	0.61097	0.86846	566.550	15.717	0.34502	5986.0
50.0000	0.6110	0.0000	0.61096	0.87267	566.666	15.720	0.34503	5986.0

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NO.=28.00 ALTITUDE=200000.0 FEET PRESSURE=6.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 29340.0 FT./SEC. ENTROPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.2839 ENTROPY=51.1963
GAMMA (AVG.)=1.1295 STAG. ENTHALPY=4.3316E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.2839	0.6117	-0.0485	0.61367	0.83339	645.716	16.307	0.33516	6219.6
52.0555	0.6119	-0.0436	0.61348	0.83733	647.727	16.352	0.33533	6221.1
51.8271	0.6121	-0.0388	0.61332	0.84125	649.525	16.392	0.33549	6222.5
51.5987	0.6122	-0.0340	0.61318	0.84517	651.110	16.427	0.33563	6223.7
51.3703	0.6124	-0.0291	0.61305	0.84907	652.486	16.458	0.33575	6224.6
51.1419	0.6125	-0.0243	0.61294	0.85298	653.653	16.484	0.33585	6225.4
50.9135	0.6125	-0.0194	0.61286	0.85689	654.613	16.506	0.33593	6226.2
50.6851	0.6126	-0.0146	0.61279	0.86081	655.364	16.523	0.33600	6226.6
50.4567	0.6127	-0.0097	0.61274	0.86475	655.907	16.534	0.33604	6227.1
50.2283	0.6127	-0.0049	0.61271	0.86870	656.238	16.542	0.33607	6227.4
50.0000	0.6127	0.0000	0.61270	0.87267	656.357	16.544	0.33609	6227.4

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=30.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 31435.8 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.1910 ENTRØPY=52.9079
GAMMA (AVG.)=1.1408 STAG. ENTHALPY=4.9685E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.1910	0.6130	-0.0466	0.61480	0.83497	741.055	16.940	0.32963	6505.3
51.9719	0.6132	-0.0420	0.61463	0.83875	743.271	16.984	0.32980	6507.2
51.7528	0.6133	-0.0373	0.61448	0.84251	745.251	17.024	0.32994	6508.4
51.5337	0.6135	-0.0326	0.61435	0.84627	746.998	17.059	0.33008	6509.9
51.3146	0.6136	-0.0280	0.61423	0.85002	748.515	17.089	0.33020	6510.9
51.0955	0.6137	-0.0233	0.61413	0.85377	749.802	17.115	0.33029	6511.8
50.8764	0.6138	-0.0187	0.61405	0.85753	750.859	17.136	0.33037	6512.9
50.6573	0.6138	-0.0140	0.61399	0.86129	751.687	17.153	0.33043	6513.2
50.4382	0.6139	-0.0094	0.61394	0.86507	752.285	17.164	0.33048	6513.8
50.2191	0.6139	-0.0047	0.61391	0.86886	752.650	17.172	0.33051	6514.1
50.0000	0.6139	0.0000	0.61390	0.87267	752.781	17.174	0.33051	6514.2

CONE SEMI-ANGLE=50.0
FREE STREAM CONDITIONS

MACH NO.=35.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
VELOCITY= 36675.1 FT./SEC. ENTRØPY=31.8722

FLOW PROPERTIES

SHOCK ANGLE=52.1509 ENTRØPY=57.2739
GAMMA (AVG.)=1.1772 STAG. ENTHALPY=6.7527E 08 FT. SQ./SEC. SQ.

ETA	VR	VN	V	THETA	P	RHO	MU	T (K)
52.1509	0.6136	-0.0458	0.61529	0.83567	1008.278	17.233	0.33161	7693.6
51.9358	0.6137	-0.0412	0.61513	0.83937	1011.236	17.276	0.33184	7696.2
51.7207	0.6139	-0.0367	0.61498	0.84306	1013.879	17.313	0.33205	7698.9
51.5057	0.6140	-0.0321	0.61485	0.84675	1016.213	17.347	0.33223	7701.0
51.2906	0.6141	-0.0275	0.61474	0.85043	1018.238	17.376	0.33238	7703.0
51.0755	0.6142	-0.0229	0.61465	0.85411	1019.957	17.400	0.33252	7704.7
50.8604	0.6143	-0.0184	0.61457	0.85780	1021.370	17.421	0.33263	7706.0
50.6453	0.6144	-0.0138	0.61451	0.86149	1022.477	17.436	0.33271	7707.1
50.4302	0.6144	-0.0092	0.61446	0.86520	1023.276	17.448	0.33277	7707.9
50.2151	0.6144	-0.0046	0.61444	0.86892	1023.764	17.455	0.33281	7708.3
50.0000	0.6144	0.0000	0.61443	0.87266	1023.938	17.457	0.33283	7708.5

CONE SEMI-ANGLE=50.0

FREE STREAM CONDITIONS

MACH NR.=40.00 ALTITUDE=200000.0 FEET PRESSURE=4.1340E-01 PSF
 DENSITY=5.2710E-07 SLUGS/CU. FT. TEMPERATURE= 253.84 DEG. K
 VELOCITY= 41914.3 FT./SEC. ENTHALPY=31.8722

FLUX PROPERTIES

SHOCK ANGLE=52.3158 ENTHALPY=61.4966
 GAMMA (AVG)=1.1846 STAG. ENTHALPY=8.8115E 08 FT. SQ./SEC. SQ.

ETA	VR	VM	V	THETA	P	RHO	MU	T (K)
52.3158	0.6113	-0.0491	0.61328	0.83280	1316.815	16.107	0.34591	9930.6
52.0842	0.6115	-0.0442	0.61309	0.83686	1320.966	16.150	0.34609	9934.3
51.8526	0.6117	-0.0393	0.61292	0.84083	1324.675	16.189	0.34626	9937.5
51.6210	0.6118	-0.0344	0.61278	0.84479	1327.950	16.223	0.34641	9940.5
51.3894	0.6119	-0.0295	0.61265	0.84875	1330.792	16.253	0.34654	9943.0
51.1579	0.6120	-0.0246	0.61254	0.85271	1333.205	16.278	0.34665	9945.2
50.9263	0.6121	-0.0197	0.61245	0.85667	1335.189	16.298	0.34673	9946.8
50.6947	0.6122	-0.0148	0.61238	0.86064	1336.743	16.314	0.34681	9948.3
50.4631	0.6122	-0.0099	0.61233	0.86463	1337.865	16.326	0.34685	9949.2
50.2316	0.6123	-0.0049	0.61229	0.86863	1338.552	16.333	0.34688	9949.8
50.0000	0.6123	-0.0000	0.61228	0.87264	1338.797	16.336	0.34689	9950.0

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