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Wayne Johnson

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Performance and Loads Data From a Wind Tunnel Test of a Full-Scale Rotor With Four Blade Tip Planforms

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NOMENCLATURE

c	blade chord
C_L/σ	rotor lift coefficient, $L/\rho S(\Omega R)^2$
C_{M_x}/σ	rotor roll moment coefficient, $\mathscr{L}/\rho S(\Omega R)^2 R$
C_{M_y}/σ	rotor pitch moment coefficient, $M/\rho S(\Omega R)^2 R$
C_{M_z}/σ	rotor yaw moment coefficient, $N/\rho S(\Omega R)^2 R$
C_P/σ	rotor power coefficient, $P/\rho S(\Omega R)^3$
C_{P_o}/σ	rotor nonideal power coefficient
c_s	speed of sound
C_X/σ	rotor propulsive force coefficient, $-D/\rho S(\Omega R)^2$
C_Y/σ	rotor side force coefficient, $Y/\rho S(\Omega R)^2$
D	rotor drag force, wind axes, positive rearward
L	rotor lift force, wind axes, positive upward
$\mathscr{L}$	rotor roll moment about hub center, wind axes
M	rotor pitch moment about hub center, wind axes
M_{at}	advancing tip Mach number, $(\Omega R + V)/c_s$
M_{tip}	tip Mach number, $\Omega R/c_s$
N	rotor yaw moment about hub center, wind axes
P	rotor power, $Q\Omega$
q	free stream dynamic pressure, $\frac{1}{2}\rho V^2$
Q	rotor shaft torque
r	blade radial station, measured from center of rotation
R	rotor radius
S	rotor reference area, number of blades times rotor radius times nominal chord; same number used for all tip planforms
V	wind tunnel air speed
Y	rotor side force, wind axes, positive to starboard

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α	shaft angle of attack, positive aft
$\theta_{.75}$	blade collective pitch angle at .75R
ρ	air density
σ	solidity, $S/\pi R^2$
Ω	rotor rotational speed

(See also Table 14)

PERFORMANCE AND LOADS DATA FROM A WIND TUNNEL TEST OF A FULL-SCALE ROTOR WITH FOUR BLADE TIP PLANFORMS

Wayne Johnson

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and
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AVRADCOM Research and Technology Laboratories

SUMMARY

A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: rectangular, tapered, swept, and swept/tapered. This report presents in tables and plots the performance and loads data obtained from that test.

INTRODUCTION

A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: swept/tapered, swept, tapered, and rectangular. This report presents the performance and loads data obtained from that test. The rotor, instrumentation, data reduction, and test procedure are described. The data from the entire test are presented in tables and plots, without discussion. Discussions and plots of the performance characteristics are given in references 1, 2, and 3. Discussions of the loads characteristics are given in references 3 and 4. The full-scale wind tunnel results are compared with small-scale and flight test results and with theoretical calculations in references 5 and 6. The noise data are presented and discussed in references 7 and 8.

ROTOR DESCRIPTION

The rotor installed on the Rotor Test Apparatus (RTA) in the 40- by 80-Foot Wind Tunnel is shown in figures 1 and 2. The RTA was mounted on the 8-ft main struts with 5-ft tips, and the 8 balance dampers were installed. The rotor hub is shown in figures 3 and 4. The rotor was fully articulated, using elastomeric bearings. The rotor blade geometry is sketched in figure 5. The last 5% of the blade span was an interchangeable tip. The four tip planforms tested are sketched in figure 6. The major parameters describing the rotor are as follows:

radius, R	22 ft
number of blades	4
nominal twist	-10 deg
hinge offset	0.833 ft
Lock number	10.
solidity	0.07476
nominal chord	1.292 ft
reference area, S	113.67 ft^2

The rotor and hub descriptive data are presented in table 1. The spanwise distributions of the blade properties are presented in tables 2 and 3. The blade airfoil and planform description is given in table 4 (see also figures 5 and 6). The airfoil contours are presented in tables 5 and 6. The two-dimensional airfoil characteristics are given in tables 7, 8, and 9.

INSTRUMENTATION AND DATA REDUCTION

The six components of the rotor forces and moments were measured by the wind tunnel balance system and corrected for wall effects and for tares. The forces and moments are in a wind axis system, with the moments measured relative to the hub center. The wind tunnel wall correction was an incremental change in the angle-of-attack proportional to lift: $\Delta\alpha = K(L/q)$, where $K = 0.00197$ deg/ft^2. This angle increment was added to the uncorrected, geometric rotor shaft angle α_u to obtain the corrected angle-of-attack of the rotor disk in free air: $\alpha_c = \alpha_u + \Delta\alpha$. The balance forces and moments were resolved into this new wind-axis system. This wall correction is based on conventional fixed wing techniques, for a wing of span equal to the rotor diameter. Tare corrections were experimentally determined to account for the aerodynamic forces on the exposed portions of the model support struts, on the test module, and on the rotating hub hardware inboard of 0.096R. The tares were described by polynomial equations (in α and q) that are given in table 10. These tare reactions were subtracted from the balance forces and moments to obtain the net rotor reactions. The rotor forces and moments were computed in coefficient form, based on the nominal blade area S. The same value of the reference area S was used for all four tip planforms.

The rotor power was obtained from the shaft torque times the rotor rotational speed. The mean rotor shaft torque was obtained from the dynamic data acquisition system. A nonideal power coefficient was calculated as follows:

$$C_{P_o} = C_P - \frac{C_L^2}{2(V/\Omega R)} - C_X(V/\Omega R)$$

The parameter C_{P_o} is obtained by subtracting the propulsive or parasite power and the ideal induced power from C_P; hence it is equal to the sum of the rotor profile power and non-ideal induced power losses.

The rotor and test module instrumentation parameters considered in this report are listed in table 11, including units and positive directions. The rotor instrumentation was on the #3 blade. The actual radial locations of the blade bending gages are given in table 12 (see also figure 5). The accelerometers were attached to the framework of the test module. The signals from the parameters shown in table 11 were sampled and digitized 64 times per rotor revolution. The data were converted to engineering units using an R-cal step acquired at the beginning of the run. The time history was smoothed and filtered by eliminating subharmonics and harmonics above 10/rev; and a correction for the Bessel filters in the amplifiers was applied.

OPERATING CONDITIONS

The rotor performance and loads were measured over an advance ratio range from 0.075 to 0.400, and an advancing tip Mach number range from 0.640 to 0.965. The tunnel speed and rotor speed were adjusted to obtain the desired advance ratio $V/\Omega R$ and advancing tip Mach number M_{at}. Data were acquired for a matrix of shaft angle α and collective pitch θ_{75} values. The rotor cyclic pitch was adjusted to produce no first harmonic flapping motion relative to the rotor shaft for most data points.

The operating conditions at which the data were acquired are shown in figure 7. Basically, an advance ratio sweep was made at $M_{tip} = 0.60$, and rotor speed sweeps were made at $V/\Omega R = 0.20$, 0.25, and 0.375. Data were acquired at 14 conditions for the swept/tapered planform, and at

5 or 6 conditions for the other three tip planforms. The run numbers for the four tip planforms are given in table 13.

PERFORMANCE DATA

The performance data are tabulated in section A. A dictionary of the parameters is provided in table 14. The data are organized by tip planform and by operating condition ($V/\Omega R$ and M_{at}). A key to the tabulated data is given in table 15.

LOADS DATA

The loads data are tabulated in section B. The oscillatory (one-half peak-to-peak) and mean loads are presented, and the magnitude of the 4/rev acceleration. A dictionary of the parameters is provided in table 14. The data are organized by tip planform. A key to the tabulated data is given in table 16.

DETAILED LOADS DATA

Detailed loads data are given in section C. The first 10 harmonics and the time history over one revolution are presented for the blade bending moments and pitch link load. A dictionary of the parameters is provided in table 14. The test conditions for the detailed loads data are listed in table 17. Data are given in section C at 3 combinations of tunnel speed and rotor speed for each tip planform, and at 3 additional combinations for the swept/tapered planform only. Three basic trim conditions are presented: a moderate lift and moderate propulsive force case (very roughly corresponding to 1g trim flight for this rotor); a high lift case with nearly zero propulsive force ($\alpha = 0$); and a high lift case with positive propulsive force (α large and negative). In addition, at $V/\Omega R = 0.20$ and $M_{at} = 0.72$ data are given for a high lift case with negative propulsive force (autorotation; $\alpha = 10^{\circ}$). At $V/\Omega R = 0.30$ and $M_{at} = 0.78$, data are given for the highest power point available (high lift with positive propulsive force). A key to the tabulated data is given in table 18.

PLOTTED DATA

The performance and loads data are plotted in section D. A dictionary of the parameters is provided in table 14. Each plot presents isograms for a particular quantity as a function of lift and propulsive force, at a given operating condition ($V/\Omega R$ and M_{at}). The data points are designated by circles on the plots. The contours are interpolated from the values of the quantity at the data points. The quantities plotted are power coefficient; nonideal power coefficient; oscillatory (one-half peak-to-peak) pitch link load; oscillatory normal bending moment at .7R; and oscillatory edgewise bending moment at .6R. The parameter ε_v in the upper left-hand corner is the rms error of the estimate of the quantity at the data points based on the interpolated contours. The rms error of the interpolation is about 0.00001 to 0.00003 for C_p/σ and C_{p_o}/σ; 4 to 8 lb for the pitch link load; 10 to 30 in-lb for the normal bending moment; and 50 to 150 in-lb for the edgewise bending moment. The plots are organized by tip planform and by plotted parameter. Keys to the plots are given in tables 19 to 23.

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8. Lee, A., and Mosher, M., "A Study of the Noise Radiation from Four Helicopter Rotor Blades," NASA CP 2052, 1978

Table 1. Rotor and hub descriptive data.

ITEM	UNITS	QUANTITY
Number of Blades		4
Rotor Solidity		0.07476
Rator Radius	Ft	22.0
Flap and Lag Hinge Offset	Ft	.8333
Blade Pushrod Horn Length	Ft	.542
Radial Position of Blade Pushrod at Horn	Ft	1.137
Radial Position of Blade Pushrod at Swashplate	Ft	1.219
Blade Pushrod Length	Ft	1.167
Blade Lag Angle for Coplanar Blade Pushrod and Rotor Shaft	Deg	13.0
Radial Position of Stationary Pushrods	Ft	.7083
Azimuth Position of FLSS Pushrod	Deg	60.6
Azimuth Position of ALSS Pushrod	Deg	241.0
Azimuth Position of LSS Pushrod	Deg	331.0
Elastomeric Hinge Flap, Lag Stiffness	Ft-lb/rad	1192.
Estimated Average Torsional Root Stiffness	Ft-lb/rad	23,600.
Elastomeric Hinge Bearing Torsional Stiffness	Ft-lb/rad	683.
Neutral Static Collective Pitch	Deg	7.0
Typical Equivalent Viscous Lag Hinge Damping	Ft-lb-sec	2000.
Radial Station of Damper Outboard End	Ft	2.133
Di. ance of Damper Outboard End Aft of Feathering Axis	Ft	.417
Radial Station of Damper Inboard End	Ft	.766
Distance of Damper Inboard End of Feathering Axis	Ft	.557
Collective Pitch for Feathering and Damper Axis Coplanar with 6^{o} Coning	Deg	-2.0

Table 1. Concluded.

ITEM	UNITS	QUANTITY
Blade mass	slug	3.04
blade first moment of inertia about lag hinge	slug-ft	29.08
blade second moment of inertia about flap hinge	slug-ft^2	408.67
structural damping (estimated)	--	3%
collective pitch at .75 R for horizontal pitch horn	deg	20°
damper motion per blade lag deflection	ft/rad	0.5274
damper force in friction damping range	lb	1500.
range of damper stroke velocity for hydraulic damping (force proportional to square of velocity)	in/sec	0 to 0.75
reference area for rotor coefficients, S (all planforms)	ft^2	113.67
hub distance above wind tunnel floor	ft	20.5

Table 2. Concluded.

Δr/R	r/R	Segment Mass Slugs	Segment Torsional Intertia Slug-Ft^2	Centroid Distance Forward of Elastic Axis Ft	Center of Gravity Distance Forward of Elastic Axis Ft
.0540	.0649	.325	.00166	0	0
.0975	.1406	.541	.02407	.0833	-.0792
.1136	.2462	.259	.02572	-.00183	-.0550
.0758	.3409	.170	.01652	-.00367	-.0572
.0758	.4167	.170	.01617	-.00334	-.0572
.0758	.4925	.182	.01754	-.00216	-.176
.0758	.5683	.218	.01924	-.00167	-.0242
.0758	.6441	.228	.01965	-.00134	.0484
.0568	.7104	.173	.01589	-.00134	.0594
.0568	.7672	.187	.01706	-.0140	.0594
.0379	.8145	.101	.009464	-.0140	-.0026
.0568	.8619	.151	.01473	-.0140	0.0
.0610	.9208	.265	.01979	-.0140	-.0132
.0246	.9636	.044	.003787	-.0433	-.1584
.0246	.9882	.022	.004869	-.2391	-.4246

Table 3. Rotor blade tip segment data

ITEM	QUANTITY							
Tip Configuration	Swept Tapered		Tapered		Swept		Rectangular	
Segment $\Delta r/R$	.0246	.0246	.0246	.0246	.0246	.0246	.0246	.0246
Segment r/R	.9636	.9882	.9636	.9882	.9636	.9882	.9636	.9882
Segment Δr (ft)	.541	.541	.541	.541	.541	.541	.541	.541
Segment r (ft)	21.20	21.74	21.20	21.74	21.20	21.74	21.20	21.74
Segment Mass (slugs)	.044	.022	.049	.014	.050	.025	.058	.022
Segment Torsional Inertia Slug-ft^2	.003787	.004869	.0038	.0011	.0054	.0097	.0043	.0043
Centroid Distance Forward of Elastic Axis (ft)	-.0433	-.2391	-.0141	-.0141	-.0308	-.165	-.0132	-.0132
Center of Gravity Distance Forward of Elastic Axis (ft)	-.1584	-.4246	-.2002	-.1496	-.2926	-.4708	-.209	-.209
Chord (ft)	1.205	.923	1.205	.923	1.292	1.292	1.292	1.292
Quarter Chord Distance Forward of Elastic Axis (ft)	-.055	-.3608	0.0	0.0	-.0374	-.2464	0.0	0.0
Total Tip Mass (slugs)	.066		.063		.075		.080	
Total Tip Chordwise Mass Moment (Slug-ft, + fwd)	-.0163		-.0119		-.0264		-.0167	
Total Tip Moment of Inertia (Slug-ft^2	.00856		.0049		.0151		.0086	
Tip Outboard Chord/Inboard Chord	.6		.6		1.0		1.0	
Tip Leading Edge Sweep (deg)	35.		6.9		20.0		0.	
Tip Quarter Chord Sweep (deg)	30.		0.		20.0		0.	
Tip Trailing Edge Sweep (deg)	10.		-19.9		20.0		0.	

Table 4. Blade airfoil and planform description.

radial station r/R	airfoil	tab	chord
0.182 to 0.189	SC1513-R8	$\delta = -1.66^{\circ}$ c = 0.5 in t = 0.05 in	1.304 ft
0.189 to 0.455	blend region		1.304 ft
0.455 to 0.795	SC1095-R8	$\delta = -2^{\circ}$ c = 0.5 in t = 0.05 in	1.304 ft
0.795 to 0.833	blend region		1.304 ft
0.833 to 0.951	SC1095	$\delta = -3^{\circ}$ c = 0.5 in t = 0.05 in	1.292 ft
0.951 to 1.000 interchangeable tip	SC1095	$\delta = -3^{\circ}$ c = 0.5 in t = 0.04 in	root 1.292 ft tapered tip 0.779 ft

Table 5. Blade airfoil contours -- upper surface.

	SC-1013R8	SC-1095R8	SC-1095
x/c	y/c	y/c	y/c
0.0	0.0	0.0	0.0
0.00082	0.0069777	0.0050470	0.0039660
0.00397	0.0177877	0.0128660	0.0091750
0.00966	0.0300702	0.0217500	0.0152640
0.01833	0.0425185	0.0307540	0.0219940
0.02999	0.0542701	0.0392540	0.0287360
0.04457	0.0654769	0.0473600	0.0349250
0.06199	0.0731251	0.0528920	0.0401600
0.08217	0.0793230	0.0573750	0.0442810
0.10499	0.0843084	0.0609810	0.0473760
0.13025	0.0881354	0.0637490	0.0500600
0.15775	0.0908824	0.0657359	0.0521600
0.18729	0.0926382	0.0670059	0.0539200
0.21866	0.0934885	0.0676209	0.0550200
0.23495	0.0936033	0.0677040	0.0553800
0.25163	0.0935244	0.0676469	0.0555220
0.26865	0.0932659	0.0674599	0.0555560
0.28598	0.0928345	0.0671479	0.0554370
0.30361	0.0922428	0.0667199	0.0551880
0.32150	0.0915004	0.0661829	0.0548320
0.33961	0.0906184	0.0655450	0.0543890
0.35793	0.0896050	0.0648119	0.0538760
0.37642	0.0884699	0.0639910	0.0533060
0.39505	0.0872229	0.0630890	0.0526680
0.41380	0.0858735	0.0621130	0.0520280
0.43262	0.0844301	0.0610690	0.0513280
0.45150	0.0829024	0.0599640	0.0505870
0.47042	0.0812959	0.0588020	0.0498000
0.48934	0.0796216	0.0575910	0.0489610
0.50825	0.0778769	0.0563290	0.0480630
0.52714	0.0759870	0.0549620	0.0470950
0.54599	0.0739850	0.0535140	0.0460470
0.56481	0.0718753	0.0519880	0.0449100
0.58359	0.0696632	0.0503880	0.0436730
0.60232	0.0673544	0.0487180	0.0423260
0.62098	0.0649543	0.0469820	0.0408720
0.63956	0.0624713	0.0451860	0.0393000
0.65802	0.0599122	0.0433350	0.0376160
0.67634	0.0572868	0.0414360	0.0358230
0.69447	0.0546074	0.0394980	0.0339350
0.71239	0.0518824	0.0375270	0.0319640
0.73005	0.0491243	0.0355320	0.0299320
0.74742	0.0463426	0.0335200	0.0278610
0.76446	0.0435526	0.0315020	0.0257780
0.78113	0.0407655	0.0294860	0.0237120
0.79740	0.0379921	0.0274800	0.0216950
0.81323	0.0352464	0.0254940	0.0197570
0.82860	0.0325366	0.0235340	0.0178200
0.85780	0.0272788	0.0197310	0.0144010
0.88478	0.0223003	0.0161300	0.0107400
0.90932	0.0176813	0.0127890	0.0076470
0.93123	0.0134908	0.0097580	0.0048860
0.95036	0.0097884	0.0070800	0.0024750
0.96654	0.0066210	0.0047890	0.0004360
0.97349	0.0052536	0.0038000	-0.0002830
0.98960	0.0020697	0.0014970	-0.0010618
1.00000	0.0000014	0.0000010	-0.0017000

Table 6. Blade airfoil contours -- lower surface.

x/c	SC-1013R8 y/c	SC-1095R8 y/c	SC-1095 y/c
0.0	0.0	0.0	0.0
0.00150	-0.0104008	-0.0075230	-0.0045890
0.00524	-0.0167398	-0.0121080	-0.0090190
0.01119	-0.0212413	-0.0153640	-0.0136550
0.01943	-0.0245525	-0.0177590	-0.0183320
0.03009	-0.0268973	-0.0194550	-0.0228170
0.04321	-0.0286185	-0.0207000	-0.0268230
0.05876	-0.0303356	-0.0219420	-0.0301220
0.07669	-0.0315039	-0.0227870	-0.0326180
0.09694	-0.0323721	-0.0234150	-0.0343760
0.11945	-0.0330855	-0.0239310	-0.0356080
0.14410	-0.0337533	-0.0244140	-0.0366080
0.17077	-0.0344390	-0.0249100	-0.0376320
0.19929	-0.0351634	-0.0254340	-0.0387180
0.22946	-0.0359003	-0.0259670	-0.0393250
0.24509	-0.0362570	-0.0262250	-0.0393920
0.26106	-0.0365930	-0.0264680	-0.0394470
0.27733	-0.0368971	-0.0266880	-0.0394000
0.29387	-0.0371626	-0.0268800	-0.0392680
0.31065	-0.0373755	-0.0270340	-0.0390670
0.32765	-0.0375304	-0.0271460	-0.0388090
0.34483	-0.0376188	-0.0272100	-0.0385060
0.36217	-0.0376368	-0.0272230	-0.0381680
0.37965	-0.0375801	-0.0271820	-0.0378020
0.39723	-0.0374515	-0.0270890	-0.0374130
0.41492	-0.0372511	-0.0269440	-0.0370030
0.43270	-0.0369870	-0.0267530	-0.0365730
0.45059	-0.0366690	-0.0265230	-0.0361190
0.46861	-0.0363054	-0.0262600	-0.0356380
0.48680	-0.0359142	-0.0259770	-0.0351230
0.50519	-0.0355146	-0.0256880	-0.0345660
0.52379	-0.0350252	-0.0253340	-0.0339580
0.54262	-0.0344031	-0.0248840	-0.0332880
0.56167	-0.0336579	-0.0243450	-0.0325470
0.58093	-0.0327952	-0.0237210	-0.0317250
0.60037	-0.0318260	-0.0230200	-0.0308130
0.61997	-0.0307573	-0.0222470	-0.0298040
0.63968	-0.0296015	-0.0214110	-0.0286940
0.65947	-0.0283697	-0.0205200	-0.0274820
0.67926	-0.0270701	-0.0195800	-0.0261730
0.69906	-0.0257166	-0.0186010	-0.0247730
0.71876	-0.0243161	-0.0175880	-0.0232990
0.73831	-0.0228838	-0.0165520	-0.0217690
0.75767	-0.0213602	-0.0154500	-0.0202070
0.77676	-0.0199500	-0.0144300	-0.0186460
0.79552	-0.0184693	-0.0133590	-0.0171180
0.81386	-0.0169914	-0.0122900	-0.0156630
0.83172	-0.0155245	-0.0112290	-0.0143170
0.84902	-0.0140784	-0.0101830	-0.0131170
0.86566	-0.0126613	-0.0091580	-0.0120980
0.88158	-0.0112939	-0.0081690	-0.0107710
0.91093	-0.0086644	-0.0062670	-0.0083240
0.93653	-0.0062988	-0.0045560	-0.0061900
0.95799	-0.0042458	-0.0030710	-0.0044010
0.97504	-0.0025618	-0.0018530	-0.0031170
0.98758	-0.0012913	-0.0009340	-0.0023390
1.00000	-0.0000028	-0.0000020	-0.0017000

Table 7. SC-1513-R8 airfoil data.

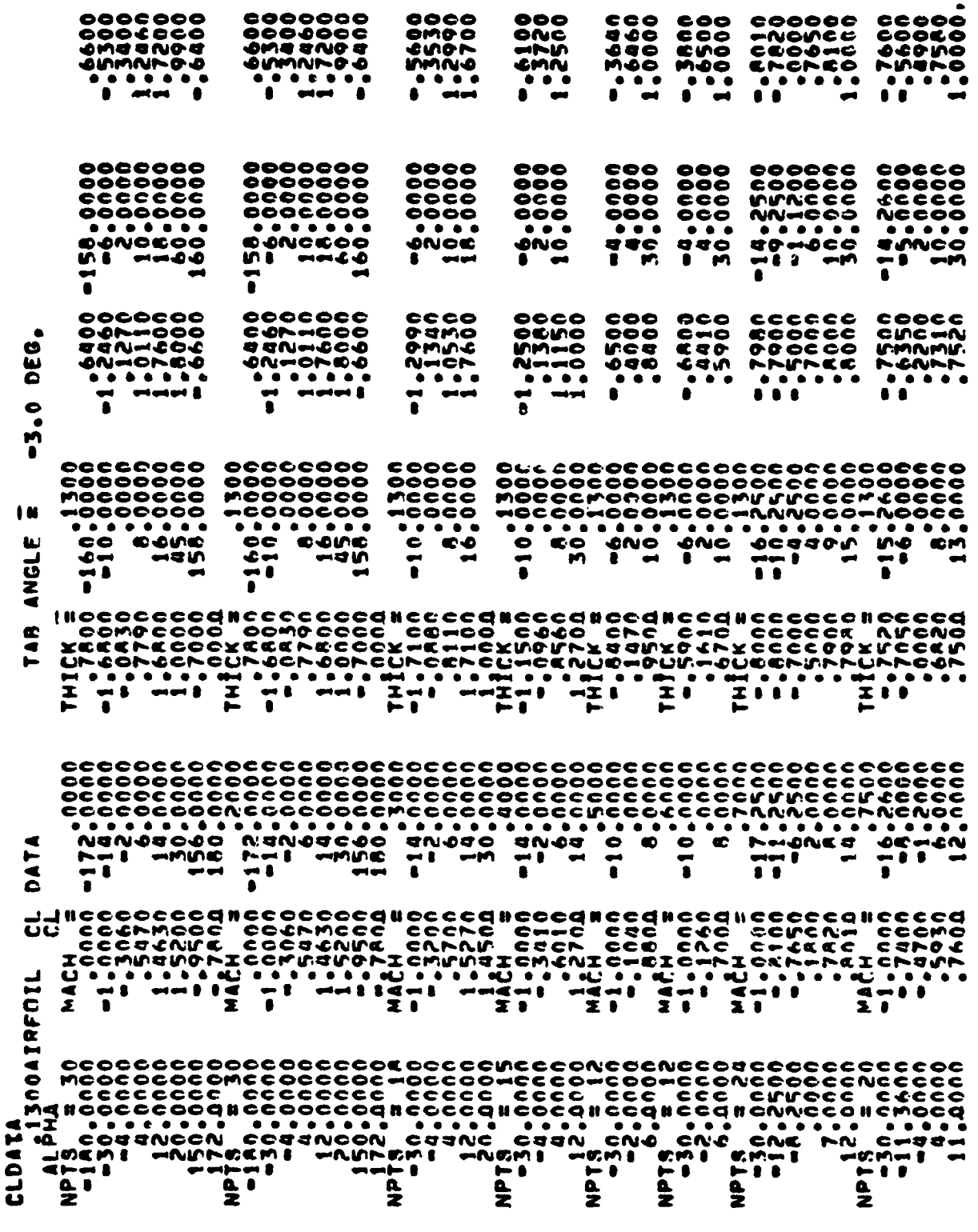
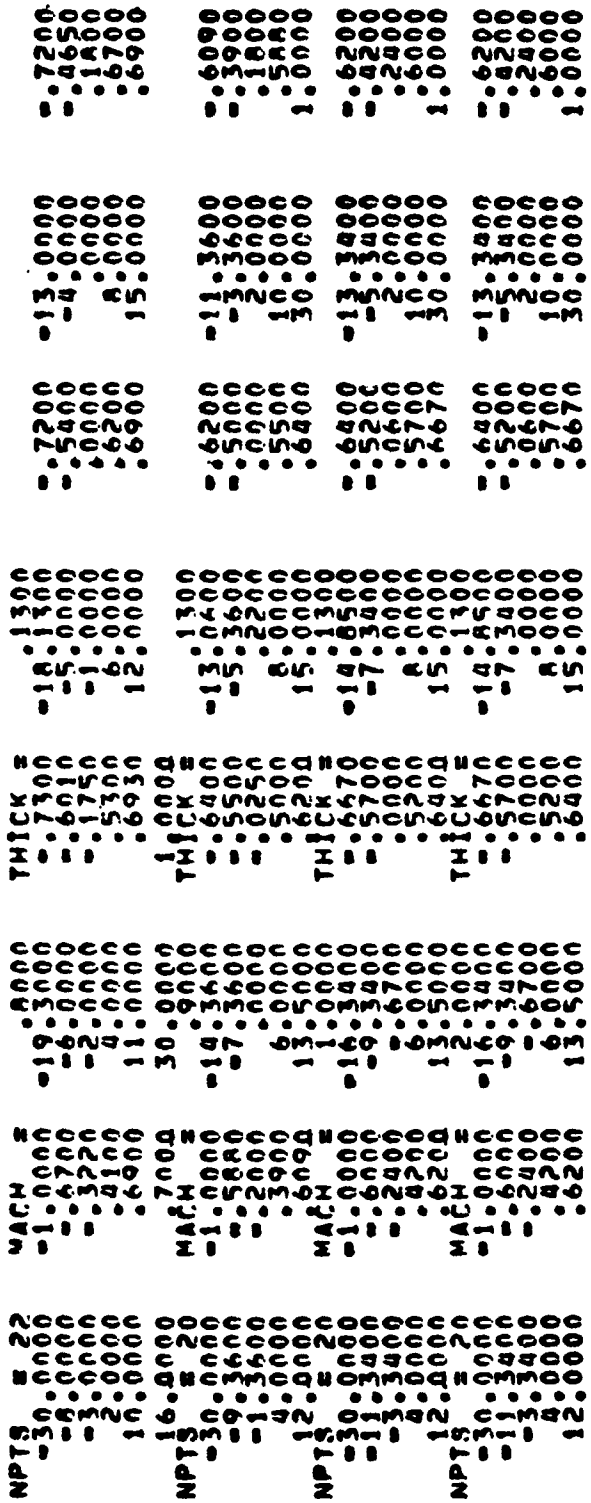


Table 7. Continued.



CDDATA

1300AIRFOIL CD DATA TAB ANGLE = -3.0 DEG.

ALPHA	CD						
NPTS = 28	MACH = .0000	THICK = .1300					
-180.0000	.0200	-179.0000	.0250	-175.0000	.0650	-172.0000	.1100
-150.0000	.6420	-115.0000	1.8800	-65.0000	1.8800	-30.0000	.6300
-30.0000	.6300	-14.0000	.0279	-10.0000	.0162	-4.0000	.0103
-2.0000	.0092	.0000	.0094	2.0000	.0084	4.0000	.0090
6.0000	.0107	8.0000	.0127	10.0000	.0162	12.0000	.0216
14.0000	.0279	30.0000	.6300	30.1000	.6300	65.0000	1.8800
150.0000	.6420	172.0000	.1100	175.0000	.0650	180.0000	.0200
NPTS = 28	MACH = .2000	THICK = .1300					
-180.0000	.0200	-179.0000	.0250	-175.0000	.0650	-172.0000	.1100
-150.0000	.6420	-115.0000	1.8800	-65.0000	1.8800	-30.0000	.6300
-30.0000	.6300	-14.0000	.0279	-10.0000	.0162	-4.0000	.0103
-2.0000	.0092	.0000	.0094	2.0000	.0084	4.0000	.0090
6.0000	.0107	8.0000	.0127	10.0000	.0162	12.0000	.0216
14.0000	.0279	30.0000	.6300	30.1000	.6300	65.0000	1.8800
150.0000	.6420	172.0000	.1100	175.0000	.0650	180.0000	.0200
NPTS = 14	MACH = .3000	THICK = .1300					
-30.0000	.6300	-14.0000	.0309	-10.0000	.0165	-4.0000	.0098
-2.0000	.0085	.0000	.0086	2.0000	.0089	4.0000	.0084
6.0000	.0102	8.0000	.0128	10.0000	.0165	12.0000	.0234
14.0000	.0309	30.0000	.6300				
NPTS = 13	MACH = .4000	THICK = .1300					
-30.0000	.6300	-12.0000	.0260	-8.0000	.0134	-4.0000	.0099
-2.0000	.0083	.0000	.0085	2.0000	.0079	4.0000	.0083
6.0000	.0104	8.0000	.0134	10.0000	.0187	12.0000	.0260
30.0000	.6300						
NPTS = 9	MACH = .5000	THICK = .1300					
-30.0000	.6300	-6.0000	.0110	-4.0000	.0097	-2.0000	.0084
.0000	.0083	2.0000	.0078	4.0000	.0087	6.0000	.0110
30.0000	.6300						
NPTS = 9	MACH = .6000	THICK = .1300					
-30.0000	.6300	-4.0000	.0075	-2.0000	.0089	.0000	.0081
2.0000	.0068	4.0000	.0074	6.0000	.0117	14.0000	.3300
30.0000	.6300						
NPTS = 18	MACH = .7000	THICK = .1300					
-30.0000	.6300	-12.0000	.2560	-10.0000	.2170	-8.0000	.1610
-6.0000	.1060	-4.0000	.0370	-3.0000	.0200	-2.0000	.0125
-1.0000	.0095	.0000	.0090	1.0000	.0140	2.0000	.0250
4.0000	.0600	6.0000	.0970	8.0000	.1350	10.0000	.2050
15.0000	.3600	30.0000	.6300				
NPTS = 17	MACH = .7500	THICK = .1300					
-30.0000	.6300	-12.0000	.2750	-10.0000	.2325	-8.0000	.1810
-6.0000	.1220	-4.0000	.0550	-2.0000	.0220	-1.0000	.0190
.0000	.0180	1.0000	.0260	2.0000	.0410	4.0000	.0800
6.0000	.1180	8.0000	.1540	10.0000	.2200	15.0000	.3650
30.0000	.6300						
NPTS = 16	MACH = .8000	THICK = .1300					
-30.0000	.6300	-12.0000	.3200	-10.0000	.2680	-8.0000	.2200
-6.0000	.1680	-4.0000	.1070	-2.0000	.0660	-1.0000	.0550
.0000	.0500	2.0000	.0850	4.0000	.1270	6.0000	.1675
8.0000	.2075	10.0000	.2615	15.0000	.3800	30.0000	.6300

Table 7. Continued.

Table 7. Continued.

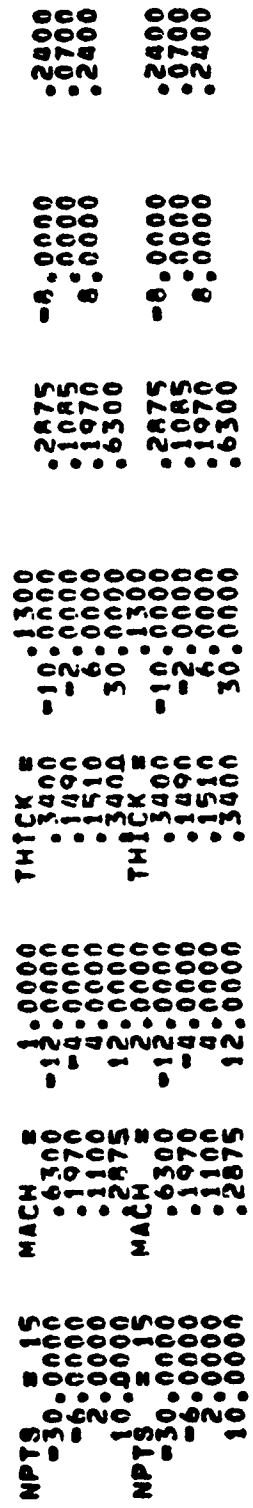


Table 7. Continued.

```
CMDATA
    1300AIRFOIL  CM DATA          TAB ANGLE =   -3.0 DEG.
   ALPHA          CM
NPTS  = 33    MACH  =      .0000  THICK =      .1300
-180.0000      -.0130  -174.0000     .3590  -160.0000     .3000  -145.0000     .4810
-125.0000       .5570   -90.0000     .5550   -60.0000     .3950   -30.0000     .1700
 -30.0000       .1700   -14.0000     .0259   -10.0000     .0136    -4.0000     .0007
  -2.0000       .0002      .0000     .0004     2.0000    -.0013     4.0000     .0011
   6.0000      -.0026     8.0000    -.0072    10.0000    -.0136    12.0000    -.0195
  14.0000      -.0259    30.0000    -.1700    45.0000    -.2950    80.0000    -.5000
  95.0000      -.5550   110.0000    -.5600   125.0000    -.5570   135.0000    -.5380
 145.0000      -.4810   150.0000    -.4380   160.0000    -.3000   174.0000    -.3590
 180.0000      -.0130
NPTS  = 33    MACH  =      .2000  THICK =      .1300
-180.0000      -.0130  -174.0000     .3590  -160.0000     .3000  -145.0000     .4810
-125.0000       .5570   -90.0000     .5550   -60.0000     .3950   -30.0000     .1700
 -30.0000       .1700   -14.0000     .0259   -10.0000     .0136    -4.0000     .0007
  -2.0000       .0002      .0000     .0004     2.0000    -.0013     4.0000     .0011
   6.0000      -.0026     8.0000    -.0072    10.0000    -.0136    12.0000    -.0195
  14.0000      -.0259    30.0000    -.1700    45.0000    -.2950    80.0000    -.5000
  95.0000      -.5550   110.0000    -.5600   125.0000    -.5570   135.0000    -.5380
 145.0000      -.4810   150.0000    -.4380   160.0000    -.3000   174.0000    -.3590
 180.0000      -.0130
NPTS  = 14    MACH  =      .3000  THICK =      .1300
 -30.0000       .1700   -14.0000     .0246   -10.0000     .0127    -4.0000     .0000
  -2.0000      -.0001      .0000     .0000     2.0000    -.0011     4.0000     .0011
   6.0000      -.0024     8.0000    -.0067    10.0000    -.0127    12.0000    -.0183
  14.0000      -.0246    30.0000    -.1700
NPTS  = 11    MACH  =      .4000  THICK =      .1300
 -30.0000       .1700   -10.0000     .0122    -4.0000    -.0009    -2.0000    -.0004
    .0000      -.0001     2.0000    -.0009     4.0000     .0015     6.0000    -.0019
   4.0000      -.0064    10.0000    -.0122    30.0000    -.1700
NPTS  =  9    MACH  =      .5000  THICK =      .1300
 -30.0000       .1700    -6.0000     .0018    -4.0000    -.0026    -2.0000    -.0012
    .0000       .0003     2.0000    -.0008     4.0000     .0019     6.0000    -.0018
  30.0000      -.1700
NPTS  =  7    MACH  =      .6000  THICK =      .1300
 -30.0000       .1700    -4.0000    -.0046    -2.0000    -.0014     .0000     .0001
   2.0000      -.0006     4.0000     .0021    30.0000    -.1700
NPTS  = 13    MACH  =      .7000  THICK =      .1300
 -30.0000       .2000   -20.0000     .1300   -12.0000     .0850    -8.0000     .0360
  -4.0000      -.0160    -2.0000    -.0220     .0000    -.0240     3.4000    -.0340
   6.1000      -.0610     8.1000    -.0865     9.0000    -.0920    20.0000    -.1500
  30.0000      -.2000
NPTS  = 13    MACH  =      .7500  THICK =      .1300
 -30.0000       .1600   -10.0000     .0700    -8.0000     .0500    -6.0000     .0300
  -4.0000       .0050    -2.0000    -.0230     .0000    -.0380     2.0000    -.0395
   4.0000      -.0450     6.0000    -.1010     8.0000    -.1050    10.0000    -.1050
  30.0000      -.1600
NPTS  = 15    MACH  =      .8000  THICK =      .1300
 -30.0000       .1500    -8.0000     .0750    -6.0000     .0600    -4.0000    -.0350
  -2.0000      -.0120     -.0000    -.0200     .5000    -.0150     1.0000    -.0120
   1.5000      -.0170     2.0000    -.0290     4.0000    -.0750     6.0000    -.1000
   8.0000      -.1150    18.0000    -.1300    30.0000    -.1500
```

Table 7. Concluded.

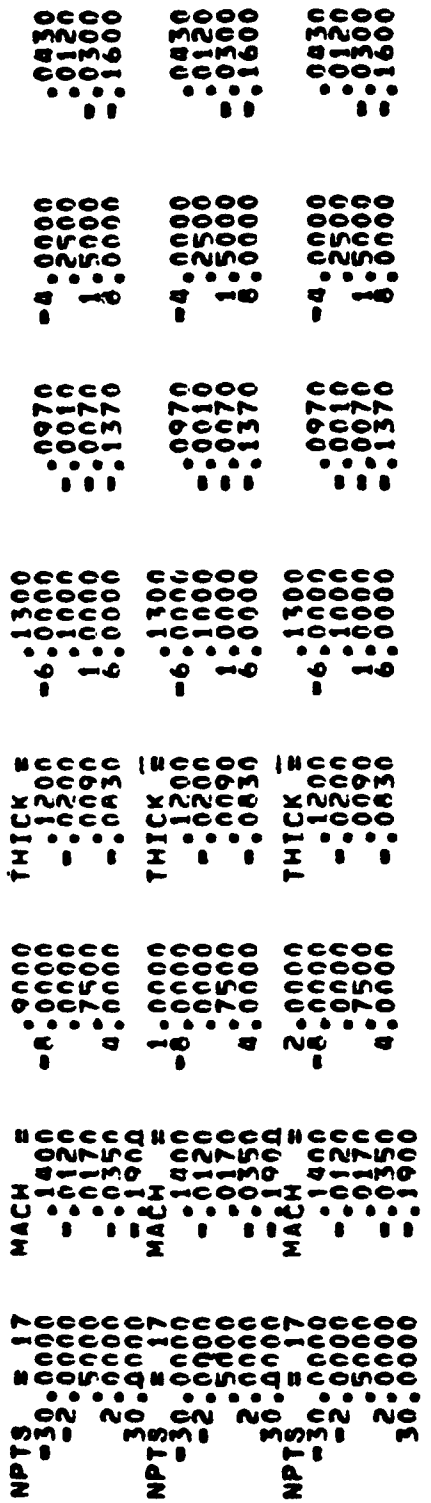


Table 8. SC-1095-R8 airfoil data.

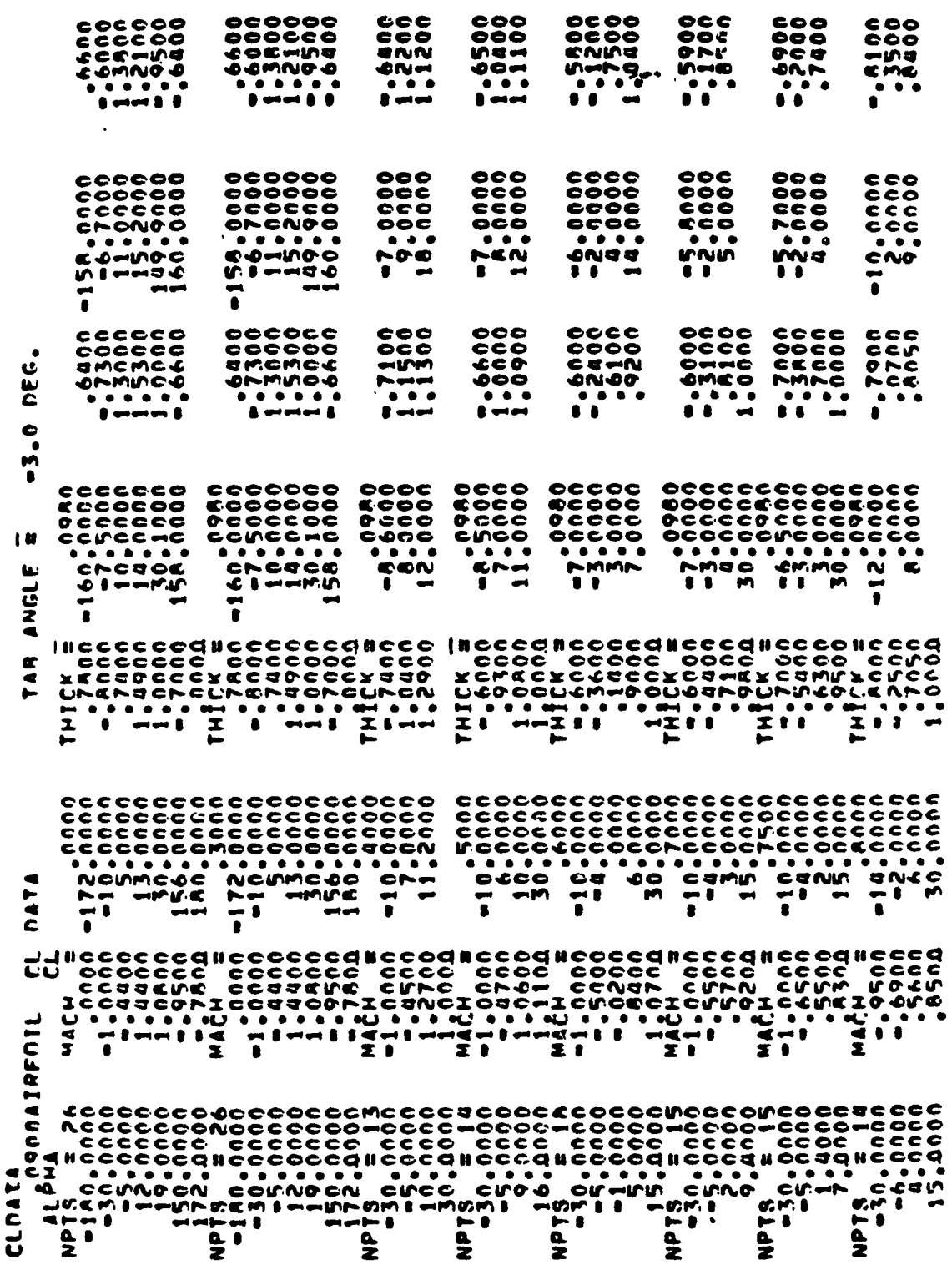


Table 8. Continued.

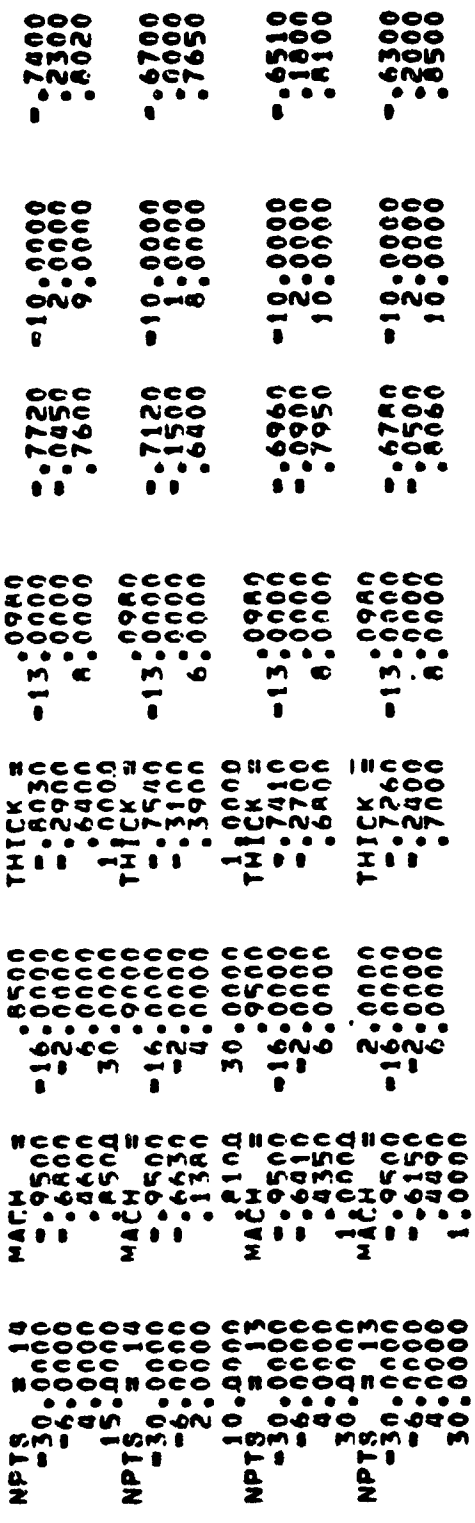


Table 8. Continued.

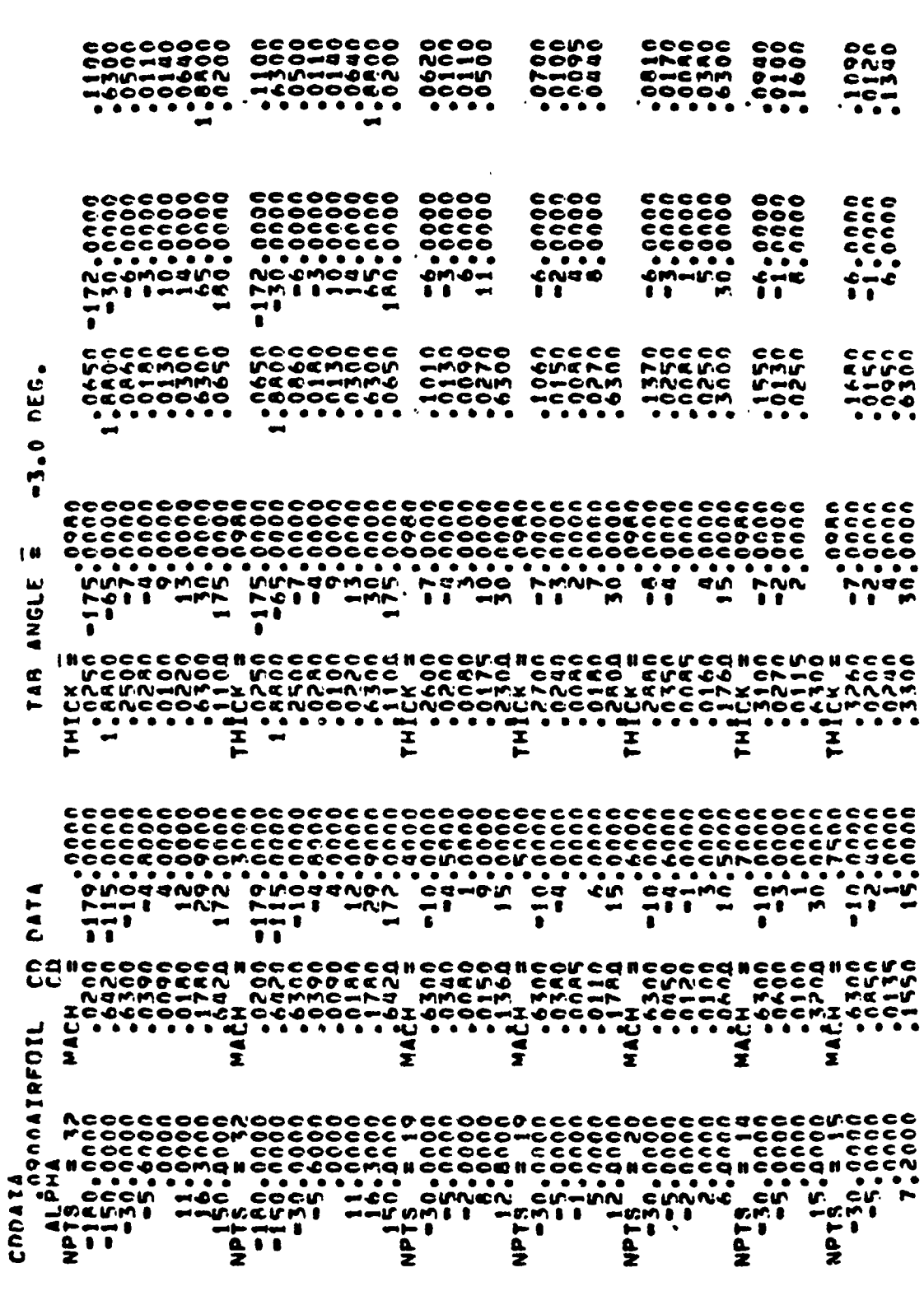


Table 8. Continued.

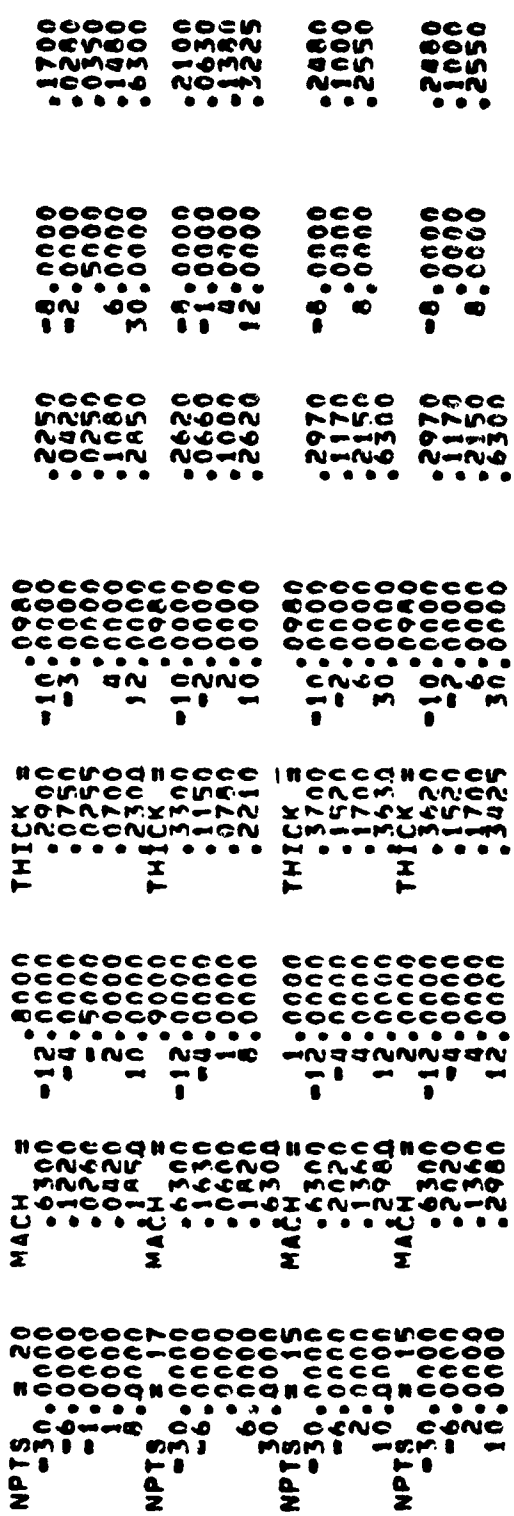


Table 8. Continued.

```
CMDATA
 0900AIRFOIL  CM DATA          TAB ANGLE =   -3.0 DEG.
   ALPHA          CM
NPTS  = 33    MACH  =      .0000   THICK =      .0980
 -180.0000     -.0130  -174.0000     .3590  -160.0000      .3000  -145.0000      .4810
 -125.0000      .5570   -90.0000     .5550   -60.0000      .3950   -30.0000      .1437
  -30.0000      .1437   -10.0000     .1065    -7.4000      .0989    -6.4000      .0852
   -5.0000      .0032     4.0000     .0019    14.0000      .0135    15.2000     -.0932
   19.0000     -.1303    30.0000    -.1437    30.1000     -.1437    34.9000     -.2220
   35.0000     -.2220    45.0000    -.2950    60.0000     -.3950    80.0000     -.5000
   95.0000     -.5550   110.0000    -.5600   125.0000     -.5570   135.0000     -.5380
  145.0000     -.4810   150.0000    -.4380   160.0000     -.3000   174.0000     -.3590
  180.0000     -.0130
NPTS  = 33    MACH  =      .3000   THICK =      .0980
 -180.0000     -.0130  -174.0000     .3590  -160.0000      .3000  -145.0000      .4810
 -125.0000      .5570   -90.0000     .5550   -60.0000      .3950   -30.0000      .1437
  -30.0000      .1437   -10.0000     .1065    -7.4000      .0989    -6.4000      .0852
   -5.0000      .0032     4.0000     .0019    14.0000      .0135    15.2000     -.0932
   19.0000     -.1303    30.0000    -.1437    30.1000     -.1437    34.9000     -.2220
   35.0000     -.2220    45.0000    -.2950    60.0000     -.3950    80.0000     -.5000
   95.0000     -.5550   110.0000    -.5600   125.0000     -.5570   135.0000     -.5380
  145.0000     -.4810   150.0000    -.4380   160.0000     -.3000   174.0000     -.3590
  180.0000     -.0130
NPTS  = 10    MACH  =      .4000   THICK =      .0980
  -30.0000      .1437   -10.0000     .1427    -7.0000      .1356    -6.0000     -.0038
   -5.0000      .0019     8.0000     .0124    11.2000      .0115    12.2000     -.1299
   18.0000     -.1341    30.0000    -.1432
NPTS  = 9     MACH  =      .5000   THICK =      .0980
  -30.0000      .1437   -10.0000     .1108    -9.0000      .0952    -7.0000     -.0483
   -5.0000      .0045     8.0000     .0031    12.0000     -.0800    16.0000     -.1293
   30.0000     -.1432
NPTS  = 11    MACH  =      .6000   THICK =      .0980
  -30.0000      .1437   -25.0000     .1267   -20.0000      .1047   -15.0000     -.0878
  -10.0000      .0707    -3.0000     -.0004     5.0000     -.0087     8.0000     -.0490
   13.0000     -.1415    15.0000     -.1352    30.0000     -.1437
NPTS  = 15    MACH  =      .7000   THICK =      .0980
  -30.0000      .1437   -25.0000     .1416   -20.0000      .1397   -15.0000     -.1327
  -10.0000      .1306    -3.0000     -.0119      .0000     -.0025     1.0000     -.0064
    2.0000     -.0073     3.0000     -.0241     4.0000     -.0569     6.0000     -.1105
    8.0000     -.1342    15.0000     -.1470    30.0000     -.1437
NPTS  = 18    MACH  =      .7500   THICK =      .0980
  -30.0000      .1437   -25.0000     .1361   -20.0000      .1335   -15.0000     -.1260
  -10.0000      .1234    -8.0000     .1039    -6.0000      .0504    -4.0000     -.0291
   -3.0000     -.0355    -2.0000     -.0245      .0000     -.0146     1.0000     -.0197
    2.0000     -.0459     3.0000     -.0943     4.0000     -.1154     5.0000     -.1177
   15.0000     -.1526    30.0000     -.1432
NPTS  = 15    MACH  =      .8000   THICK =      .0980
  -30.0000      .1500    -8.0000     .0750    -6.0000      .0600    -4.0000      .0350
   -2.0000     -.0120      .0000     -.0200      .5000     -.0150     1.0000     -.0120
    1.5000     -.0170     2.0000     -.0290     4.0000     -.0750     6.0000     -.1000
    8.0000     -.1150    18.0000     -.1300    30.0000     -.1500
```

Table 8. Concluded.

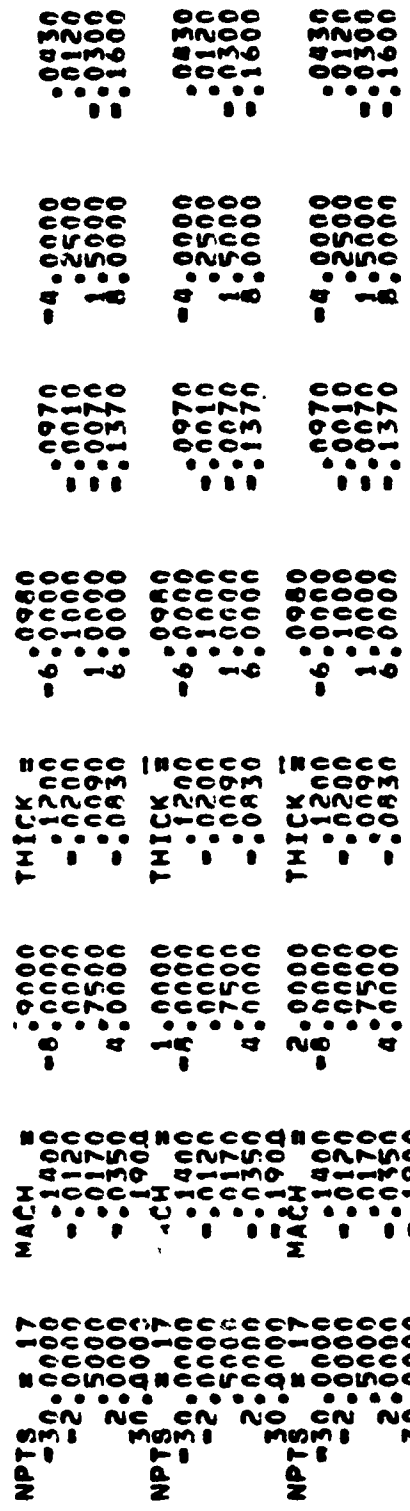


Table 9. SC-1095 airfoil data.

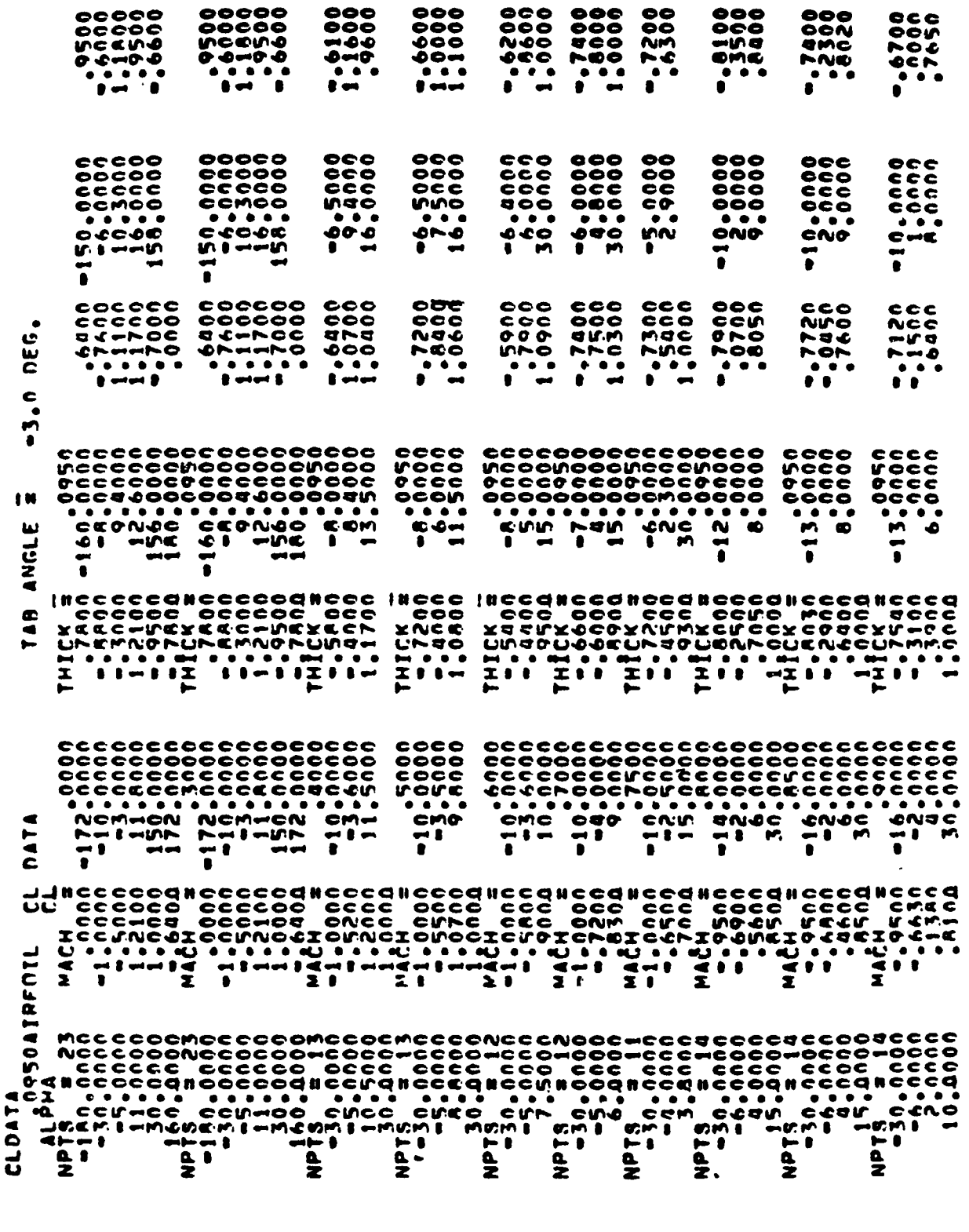


Table 9. Continued.

-.6510	-.6300
-.1800	-.2000
.4100	.8500
-10.0000	-10.0000
-2.0000	-2.0000
10.	10.
-.6960	-.6780
-.0900	-.0500
.7950	.8060
-13.0950	-13.0950
-.0000	-.0000
8.0000	8.0000
THICK = .7410	THICK = .7260
-.2700	-.2400
.6800	.7000
-16.9500	-16.9500
-2.0000	-2.0000
-6.	-6.
2.0000	2.0000
-16.0000	-16.0000
-2.0000	-2.0000
6.	6.
MACH = .9500	MACH = .9500
.6410	.6150
.4350	.4400
1.000	1.0000
NPTS = 13	NPTS = 13
-30.0000	-30.0000
-6.0000	-6.0000
-4.0000	-4.0000
30.	30.

CODATA

0950AIRFOIL CD DATA TAB ANGLE = -3.0 DEG.

ALPHA	CD
NPTS = 34	MACH = .0000
-180.0000	.0200
-150.0000	.6420
-30.0000	.6300
-6.9000	.0160
.0000	.0083
10.0000	.0185
30.0000	.6300
90.0000	2.0800
179.0000	.0250
NPTS = 34	MACH = .3000
-180.0000	.0200
-150.0000	.6420
-30.0000	.6300
-6.9000	.0160
.0000	.0083
10.0000	.0185
30.0000	.6300
90.0000	2.0800
179.0000	.0250
NPTS = 18	MACH = .4000
-30.0000	.6300
-6.2000	.0240
.0000	.0083
9.0000	.0170
15.0000	.2200
NPTS = 18	MACH = .5000
-30.0000	.6300
-5.7000	.0200
.0000	.0083
7.0000	.0200
15.0000	.2000
NPTS = 16	MACH = .6000
-30.0000	.6300
-4.2000	.0150
1.5000	.0083
5.6000	.0300
NPTS = 14	MACH = .7000
-30.0000	.6300
-3.0000	.0200
.8000	.0085
15.0000	.3000
NPTS = 14	MACH = .7500
-30.0000	.6300
-2.0000	.0150
.4000	.0095
15.0000	.3200

THICK = .0950				
.0250	-175.0000	.0650	-172.0000	.1100
1.8800	-90.0000	2.0800	-65.0000	1.8800
.2100	-8.6000	.0590	-7.6000	.0300
.0120	-5.5000	.0095	-4.0000	.0085
.0095	7.5000	.0120	9.0000	.0150
.0250	12.0000	.0560	15.0000	.2100
.6300	65.0000	1.8800	65.1000	1.8800
.6400	172.0000	.1100	175.0000	.0650
.0200				
THICK = .0950				
.0250	-175.0000	.0650	-172.0000	.1100
1.8800	-90.0000	2.0800	-65.0000	1.8800
.2100	-8.6000	.0590	-7.6000	.0300
.0120	-5.5000	.0095	-4.0000	.0085
.0095	7.5000	.0120	9.0000	.0150
.0250	12.0000	.0560	15.0000	.2100
.6300	65.0000	1.8800	65.1000	1.8800
.6400	172.0000	.1100	175.0000	.0650
.0200				
THICK = .0950				
.2150	-7.2000	.0600	-6.6000	.0300
.0140	-4.8000	.0110	-3.8000	.0085
.0083	6.0000	.0105	8.0000	.0140
.0200	10.2000	.0270	10.6000	.0400
.6300				
THICK = .0950				
.1500	-8.0000	.0500	-6.7000	.0300
.0140	-4.8000	.0100	-3.8000	.0085
.0085	4.5000	.0095	5.8000	.0125
.0300	9.0000	.0550	12.0000	.1600
.6300				
THICK = .0950				
.1600	-5.6000	.0360	-4.7000	.0210
.0120	-2.5000	.0090	-1.5000	.0083
.0095	4.0000	.0120	4.8000	.0175
.0700	15.0000	.2770	30.0000	.6300
THICK = .0950				
.2100	-4.0000	.0390	-3.6000	.0280
.0130	-1.4000	.0090	.0000	.0083
.0090	2.5000	.0130	3.0000	.0200
.6300				
THICK = .0950				
.1850	-3.2000	.0300	-2.5000	.0200
.0110	-.5000	.0085	.0000	.0085
.0110	1.4000	.0160	2.0000	.0225
.6300				

Table 9. Continued.

Table 9. Continued.

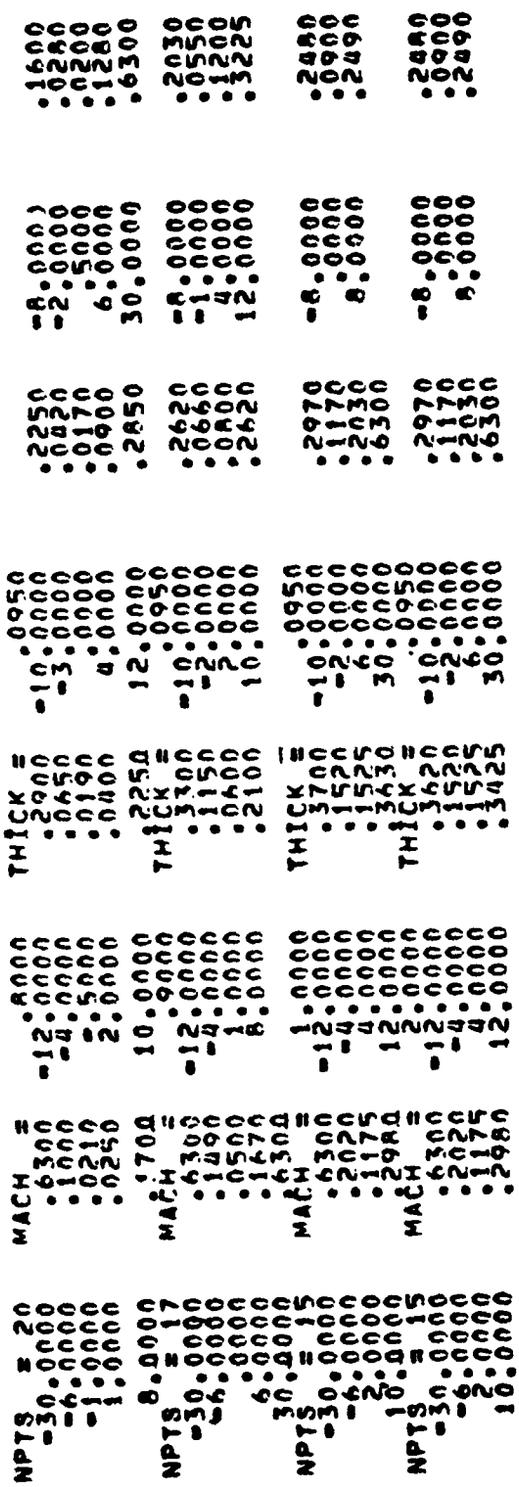


Table 9. Continued.

```
CMDATA
 0950AIRFOIL  CM DATA          TAB ANGLE =   -3.0 DEG.
   ALPHA        CM
NPTS  = 29    MACH  =      .0000   THICK =      .0950
 -180.0000     -.0130   -174.0000     .3590   -160.0000      .3000   -145.0000      .4810
 -125.0000      .5570    -90.0000     .5550    -60.0000      .3950    -30.0000      .1650
  -30.0000      .1650    -10.0000     .0799     -8.0000     -.0009     12.0000     -.0084
   16.0000     -.1482     30.0000    -.1437     30.1000     -.1437     34.9000     -.2220
   35.0000     -.2220     45.0000    -.2950     60.0000     -.3950     80.0000     -.5000
   95.0000     -.5550    110.0000    -.5600    125.0000     -.5570    135.0000     -.5380
  145.0000     -.4810    150.0000    -.4380    160.0000     -.3000    174.0000     -.3590
  180.0000     -.0130
NPTS  = 29    MACH  =      .3000   THICK =      .0950
 -180.0000     -.0130   -174.0000     .3590   -160.0000      .3000   -145.0000      .4810
 -125.0000      .5570    -90.0000     .5550    -60.0000      .3950    -30.0000      .1650
  -30.0000      .1650    -10.0000     .0799     -8.0000     -.0009     12.0000     -.0084
   16.0000     -.1482     30.0000    -.1437     30.1000     -.1437     34.9000     -.2220
   35.0000     -.2220     45.0000    -.2950     60.0000     -.3950     80.0000     -.5000
   95.0000     -.5550    110.0000    -.5600    125.0000     -.5570    135.0000     -.5380
  145.0000     -.4810    150.0000    -.4380    160.0000     -.3000    174.0000     -.3590
  180.0000     -.0130
NPTS  =  9    MACH  =      .4000   THICK =      .0950
  -30.0000      .1437    -10.0000     .1364     -6.0000     -.0009      6.0000     -.0052
   10.0000      .0110     11.2000    -.0039     12.4000     -.0952     16.0000     -.1329
   30.0000     -.1437
NPTS  =  9    MACH  =      .5000   THICK =      .0950
  -30.0000      .1437    -10.0000     .1336     -6.0000     -.0019      9.0000     -.0038
   10.0000     -.0130     12.0000    -.0860     14.0000     -.1254     16.0000     -.1548
   30.0000     -.1437
NPTS  =  9    MACH  =      .6000   THICK =      .0950
  -30.0000      .1437    -10.0000     .0975     -5.0000     -.0069      6.2000     -.0073
    7.4000     -.0099     11.0000    -.0879     13.2000     -.1263     16.0000     -.1549
   30.0000     -.1437
NPTS  = 10    MACH  =      .7000   THICK =      .0950
  -30.0000      .1437    -10.0000     .0847     -6.0000     -.0838     -4.0000     -.0134
    2.0000      .0032      4.0000    -.0132      6.0000     -.0814      8.0000     -.0954
   15.0000     -.1560     30.0000    -.1437
NPTS  = 10    MACH  =      .7500   THICK =      .0950
  -30.0000      .1437    -10.0000     .1235     -6.0000     -.1236     -2.8000     -.0209
    1.4000     -.0071      2.6000    -.0319      4.0000     -.0942      5.4000     -.1135
   15.0000     -.1581     30.0000    -.1437
NPTS  = 15    MACH  =      .8000   THICK =      .0950
  -30.0000      .1500     -8.0000     .0750     -6.0000      .0600     -4.0000      .0350
   -2.0000     -.0120       .0000    -.0200      .5000     -.0150      1.0000     -.0120
    1.5000     -.0170      2.0000    -.0290      4.0000     -.0750      6.0000     -.1000
    8.0000     -.1150     18.0000    -.1300     30.0000     -.1500
NPTS  = 17    MACH  =      .9000   THICK =      .0950
  -30.0000      .1400     -8.0000     .1200     -6.0000      .0970     -4.0000      .0430
   -2.0000     -.0120       .0000    -.0200      .1000     -.0010      .2500     -.0120
     .5000     -.0170       .7500    -.0090      1.0000     -.0070      1.5000     -.0300
    2.0000     -.0350      4.0000    -.0430      6.0000     -.1370      8.0000     -.1600
   30.0000     -.1900
```

Table 9. Concluded.

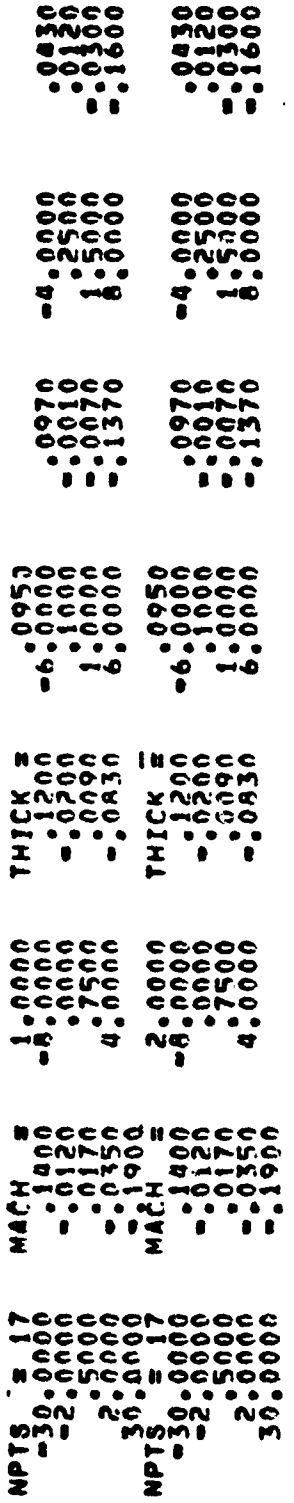


Table 10. Equations used for tare corrections.

For $q \leq 35$ lb/ft^2

$$\begin{bmatrix} \frac{L}{q} \\ \frac{D}{q} \\ \frac{M}{q} \\ \frac{Y}{q} \\ \frac{N}{q} \\ \frac{\mathcal{R}}{q} \end{bmatrix} = \begin{bmatrix} 1.7586 & 1.32067 & -0.01323 & 0.5183 & -0.01022 \\ 20.6243 & .04693 & .01658 & -.19167 & -.0029 \\ 76.965 & 5.3724 & .2225 & -14.593 & .3009 \\ -15.11 & .1186 & .0029 & .9598 & -.0187 \\ 75.6737 & -2.1815 & -.01196 & -4.566 & .0889 \\ 181.81 & -.0844 & -.02368 & -13.296 & .2658 \end{bmatrix} \begin{bmatrix} 1 \\ \alpha \\ \alpha^2 \\ q \\ q^2 \\ \end{bmatrix}$$

For $q > 35$ lb/ft^2

$$\begin{bmatrix} \frac{L}{q} \\ \frac{D}{q} \\ \frac{M}{q} \\ \frac{Y}{q} \\ \frac{N}{q} \\ \frac{\mathcal{R}}{q} \end{bmatrix} = \begin{bmatrix} 6.2831 & 1.3151 & -0.01606 & 0.0522 & -0.00025 \\ 17.6884 & 0.01516 & .01728 & -.0067 & .00006 \\ -65.602 & 5.02 & .21357 & -.2198 & .00094 \\ 6.0 & .1148 & .00227 & .0736 & -.00045 \\ 32.7186 & -2.0611 & -.00289 & -.3598 & .0021 \\ 60.765 & -.0739 & -.01542 & -.9136 & .00567 \end{bmatrix} \begin{bmatrix} 1 \\ \alpha \\ \alpha^2 \\ q \\ q^2 \\ \end{bmatrix}$$

Table 11. Rotor and test module instrumentation.

Parameter	Units	Positive Direction
Normal bending moment, .3R	in-lb	tip upward
.5R	in-lb	tip downward
.6R	in-lb	tip upward
.7R	in-lb	tip upward
Edgewise bending moment, .5R	in-lb	tip aft
.6R	in-lb	tip aft
.7R	in-lb	tip aft
Pitch link load	lb	tension
Rotor shaft torque	ft-lb	power to rotor
Nose vertical acceleration	g	--
Cross beam longitudinal acceleration	g	--
Tail lateral acceleration	g	--

Table 12. Bending gage locations.

Nominal Station	x/R
30%	0.[illegible]4
50%	0.515
60%	0.604
70%	0.683

Table 13. Configurations tested.

Tip Planform	Run Numbers
Swept/tapered	1-22, 52-56, 60-63
Swept	47-51, 59
Tapered	23-38, 57-58
Rectangular	39-46

Table 14. Dictionary of parameters in data tables and plots.

Code	Parameter
ALFC	control plane angle-of-attack, $\alpha_c = \alpha - B_1$ = corrected shaft angle minus longitudinal cyclic control angle (deg)
ALFS,U	shaft angle-of-attack, uncorrected (deg)
ALT	alternating load ($\frac{1}{2}$ peak-to-peak)
A1	lateral cyclic control angle A_1 (deg)
B1C	longitudinal flapping angle relative shaft, β_{1c}, positive forward (deg)
B1S	lateral flapping angle relative shaft, β_{1s}, positive to port (deg)
CL/S, CLR/S	C_L/σ
CMX/S	C_{M_X}/σ
CMY/S	C_{M_Y}/σ
CMZ/S	C_{M_Z}/σ
COS	cosine component of Fourier series
CP/S	C_P/σ
CPO/S	C_{P_O}/σ
CX/S, CXR/S	C_X/σ
CYR/S	C_Y/σ
E5	blade edgewise bending moment, .5R
E6	blade edgewise bending moment, .6R
E7	blade edgewise bending moment, .7R
HARMONIC	harmonic number of Fourier series

Table 14. Concluded.

Code	Parameter
LN4 ACC	magnitude 4/rev cross beam longitudinal acceleration
MAT	M_{at}
MEAN	mean load
NV4 ACC	magnitude 4/rev nose vertical acceleration
N3	blade normal bending moment, .3R
N5	blade normal bending moment, .5R
N6	blade normal bending moment, .6R
N7	blade normal bending moment, .7R
OMEG*R	ΩR (ft/sec)
OSC	oscillatory load ($\frac{1}{2}$ peak-to-peak)
PL	pitch link load
PSI	blade azimuth angle (deg)
Q	rotor shaft torque
RHO, RHO100	air density ρ (slug/ft^3)
SIN	sine component of Fourier series
THETA	rotor collective pitch θ_{75} (deg)
TL4 ACC	magnitude 4/rev tail lateral acceleration
VKTS	V (knots)
V/OR	V/ΩR
ε_v	rms interpolation error in plots

Table 15. Key to tabulated performance data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	A2			
0.075	0.595	0.640	A4			
0.150	0.595	0.685	A6			
0.200	0.600	0.720	A9	A43	A57	A74
0.250	0.600	0.750	A14			
0.300	0.600	0.780	A17	A46	A61	A77
0.375	0.600	0.825	A24	A48	A66	A82
0.390	0.595	0.825	A27	A50		A85
0.400	0.600	0.840	A27			
0.250	0.650	0.815	A34			
0.375	0.650	0.895	A35	A52		A87
0.375	0.685	0.940	A39	A55	A71	
0.250	0.700	0.875	A41			
0.375	0.700	0.965	A42		A73	

Table 16. Key to tabulated loads data.

Tip Planform	Page Number
Swept/Tapered	B2
Swept	B39
Tapered	B50
Rectangular	B65

Table 17. Test conditions for detailed loads data.

$V/\Omega R$	M_{tip}	M_{at}	α	θ_{75}	Remarks
0.20	0.60	0.72	10 -2.5 -5 0	8 8 13 12	plus α = -7.5, θ = 16 for swept/tapered missing α = 10, θ = 8 and α = 0, θ = 12 for swept
0.30	0.60	0.78	-5 -10 0 high power	10 12 12	
0.375	0.60	0.825	-5 -10 0	12 14 12	plus α = -10, θ = 16 for swept/tapered
0.25	0.60	0.75	-2.5 -5 0	8 14 12	swept/tapered only
0.40	0.60	0.84	-5 +10 0	12 15 12	swept/tapered only
0.375	0.65	0.895	-5 -10 0	12 15.5 11.5	swept/tapered only

Table 18. Key to tabulated detailed loads data (page numbers).

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660				
0.075	0.595	0.640				
0.150	0.595	0.685				
0.200	0.600	0.720	C2	C46	C64	C86
0.250	0.600	0.750	C28			
0.300	0.600	0.780	C12	C50	C72	C94
0.375	0.600	0.825	C20	C58	C80	C102
0.390	0.595	0.825				
0.400	0.600	0.840	C34			
0.250	0.650	0.815				
0.375	0.650	0.895	C40			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

Table 19. Key to plotted power data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D2			
0.075	0.595	0.640	D3			
0.150	0.595	0.685	D4			
0.200	0.600	0.720	D5	D14	D19	D24
0.250	0.600	0.750	D6			
0.300	0.600	0.780	D7	D15	D20	D25
0.375	0.600	0.825	D8	D16	D21	D26
0.390	0.595	0.825				
0.400	0.600	0.840	D9			
0.250	0.650	0.815	D10			
0.375	0.650	0.895	D11	D17		D27
0.375	0.685	0.940	D12	D18	D22	
0.250	0.700	0.875				
0.375	0.700	0.965	D13		D23	

Table 20. Key to plotted nonideal power data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D28			
0.075	0.595	0.640	D29			
0.150	0.595	0.685	D30			
0.200	0.600	0.720	D31	D40	D45	D50
0.250	0.600	0.750	D32			
0.300	0.600	0.780	D33	D41	D46	D51
0.375	0.600	0.825	D34	D42	D47	D52
0.390	0.595	0.825				
0.400	0.600	0.840	D35			
0.250	0.650	0.815	D36			
0.375	0.650	0.895	D37	D43		D53
0.375	0.685	0.940	D38	D44	D48	
0.250	0.700	0.875				
0.375	0.700	0.965	D39		D49	

Table 21. Key to plotted pitch link load data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D54			
0.075	0.595	0.640				
0.150	0.595	0.685	D55			
0.200	0.600	0.720	D56	D64	D68	D73
0.250	0.600	0.750	D57			
0.300	0.600	0.780	D58	D65	D69	D74
0.375	0.600	0.825	D59	D66	D70	D75
0.390	0.595	0.825				
0.400	0.600	0.840	D60			
0.250	0.650	0.815	D61			
0.375	0.650	0.895	D62	D67		D76
0.375	0.685	0.940			D71	
0.250	0.700	0.875				
0.375	0.700	0.965	D63		D72	

Table 22. Key to plotted normal bending moment data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D77			
0.075	0.595	0.640				
0.150	0.595	0.685	D78			
0.200	0.600	0.720	D79		D86	D89
0.250	0.600	0.750	D80			
0.300	0.600	0.780	D81	D85	D87	D90
0.375	0.600	0.825	D82		D88	D91
0.390	0.595	0.825				
0.400	0.600	0.840	D83			
0.250	0.650	0.815				
0.375	0.650	0.895	D84			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

Table 23. Key to plotted edgewise bending moment data (page numbers)

Operating Condition			Tip Planform			
$V/\Omega R$	M_{tip}	M_{at}	Swept/ Tapered	Swept	Tapered	Rectangular
0.200	0.550	0.660	D92			
0.075	0.595	0.640				
0.150	0.595	0.685	D93			
0.200	0.600	0.720	D94		D101	D104
0.250	0.600	0.750	D95			
0.300	0.600	0.780	D96	D100	D102	D105
0.375	0.600	0.825	D97		D103	D106
0.390	0.595	0.825				
0.400	0.600	0.840	D98			
0.250	0.650	0.815				
0.375	0.650	0.895	D99			
0.375	0.685	0.940				
0.250	0.700	0.875				
0.375	0.700	0.965				

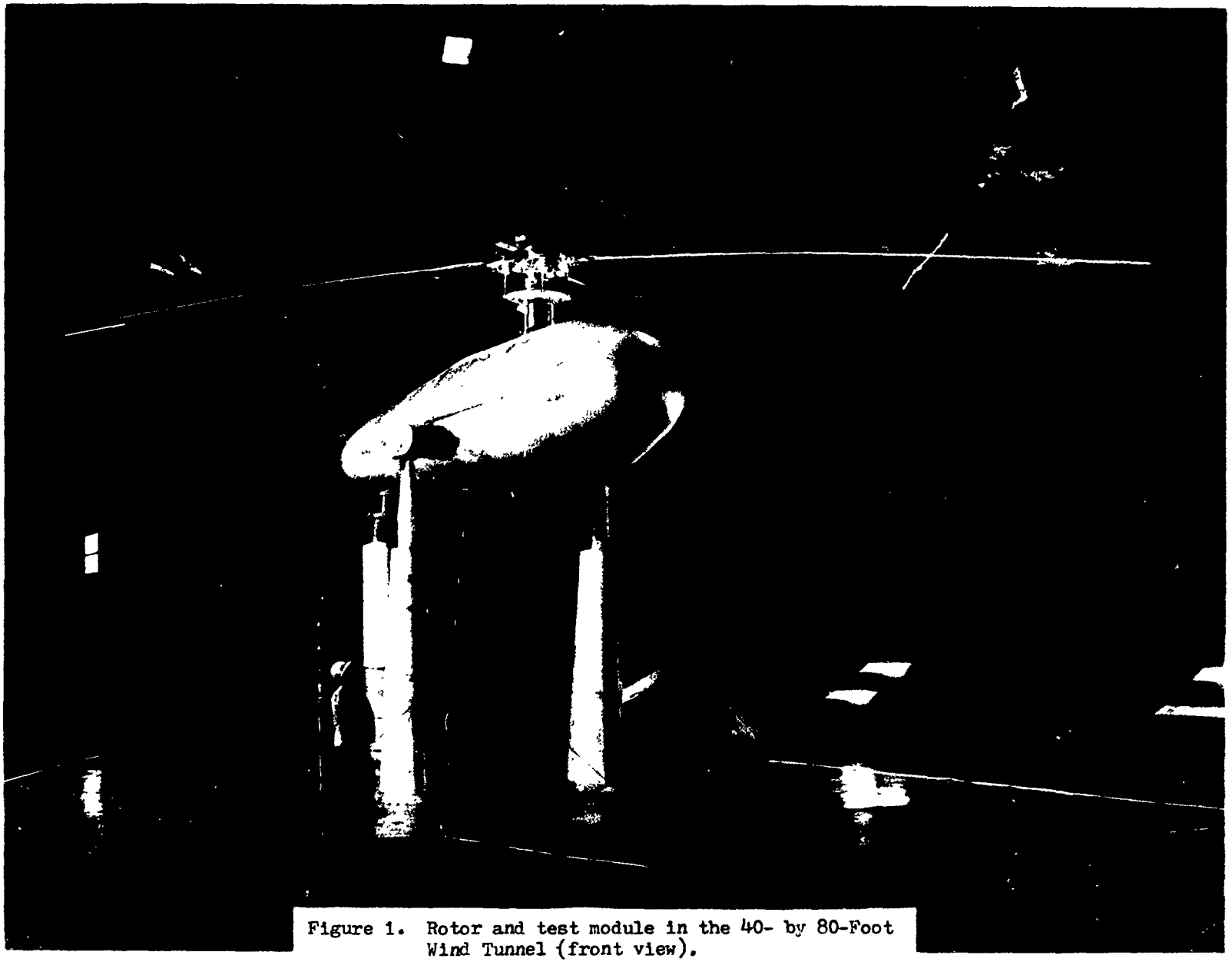


Figure 1. Rotor and test module in the 40- by 80-Foot Wind Tunnel (front view).

Figure 2. Rotor and test module in the 40- by 80-Foot Wind Tunnel (top view)

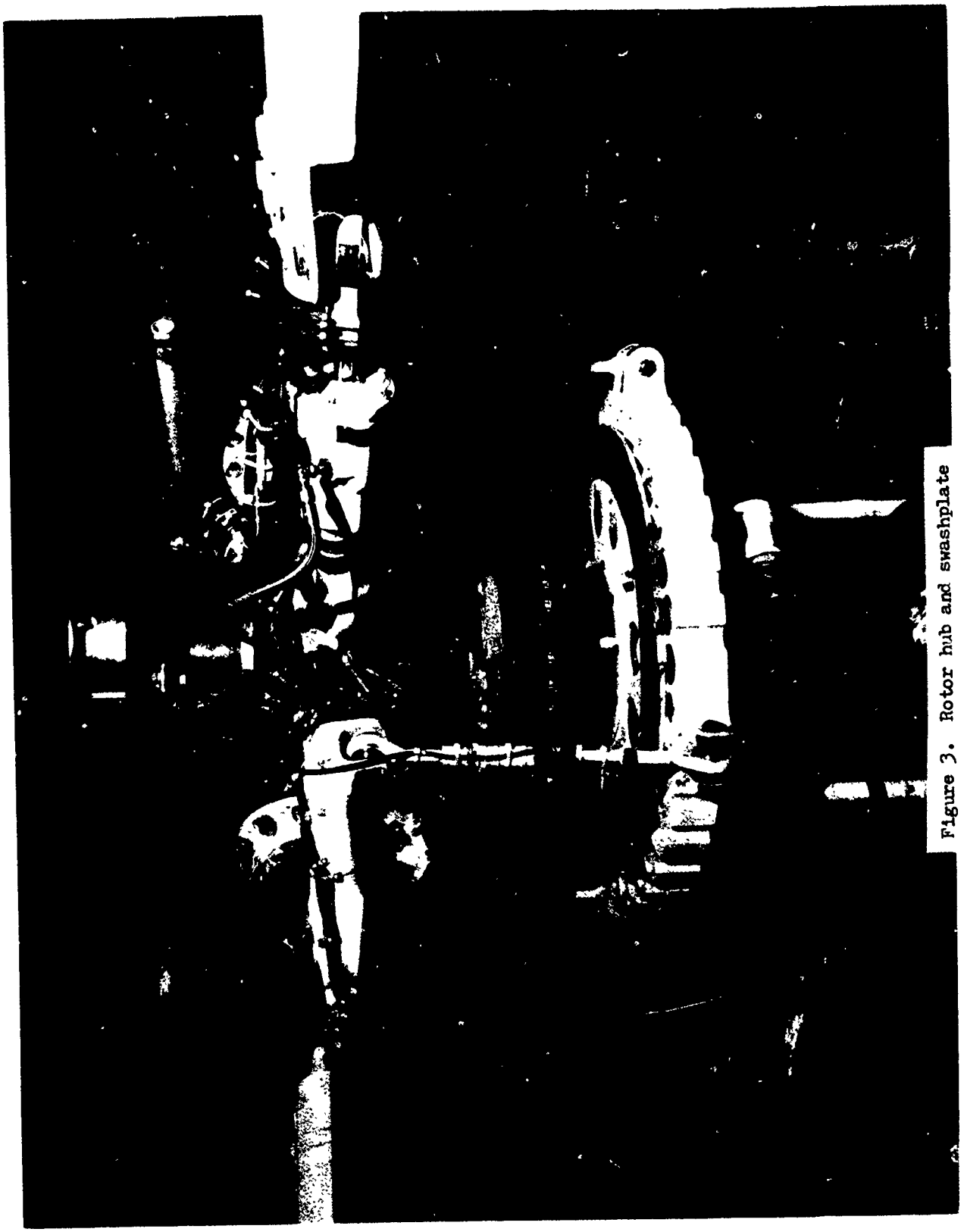


Figure 3. Rotor hub and swashplate

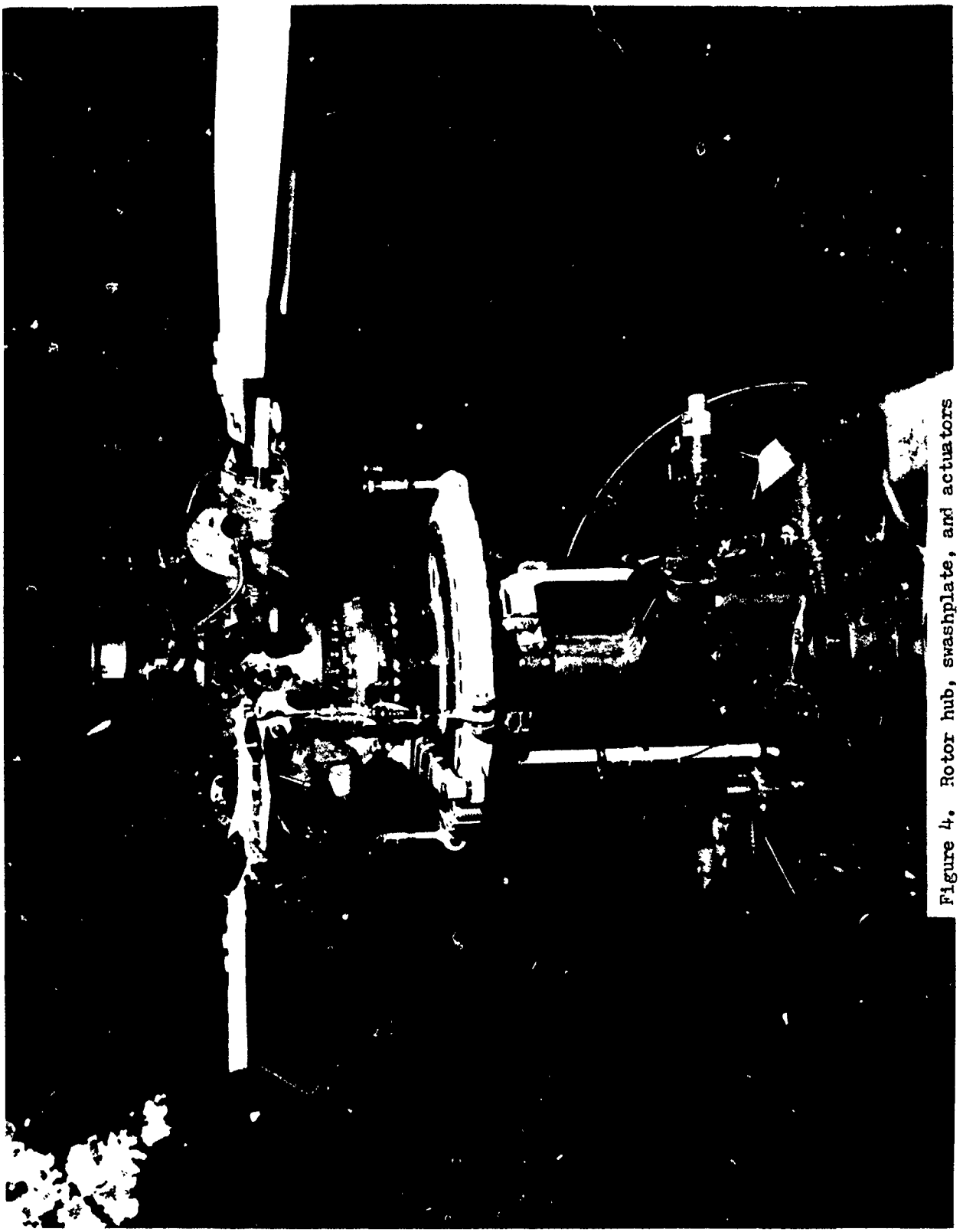


Figure 4. Rotor hub, swashplate, and actuators

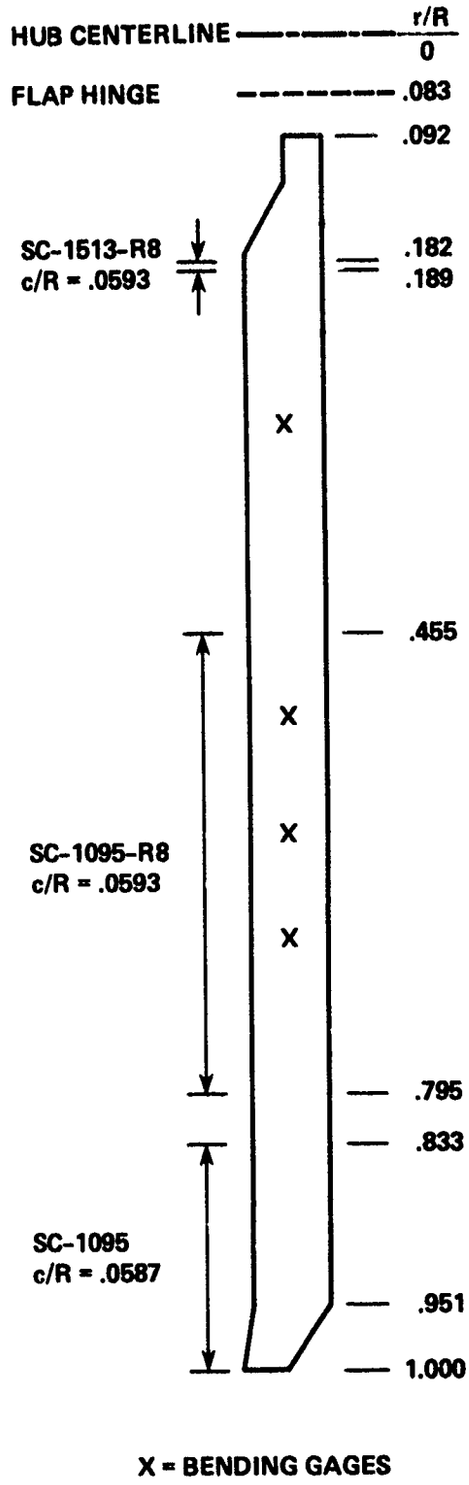


Figure 5. Rotor blade geometry.

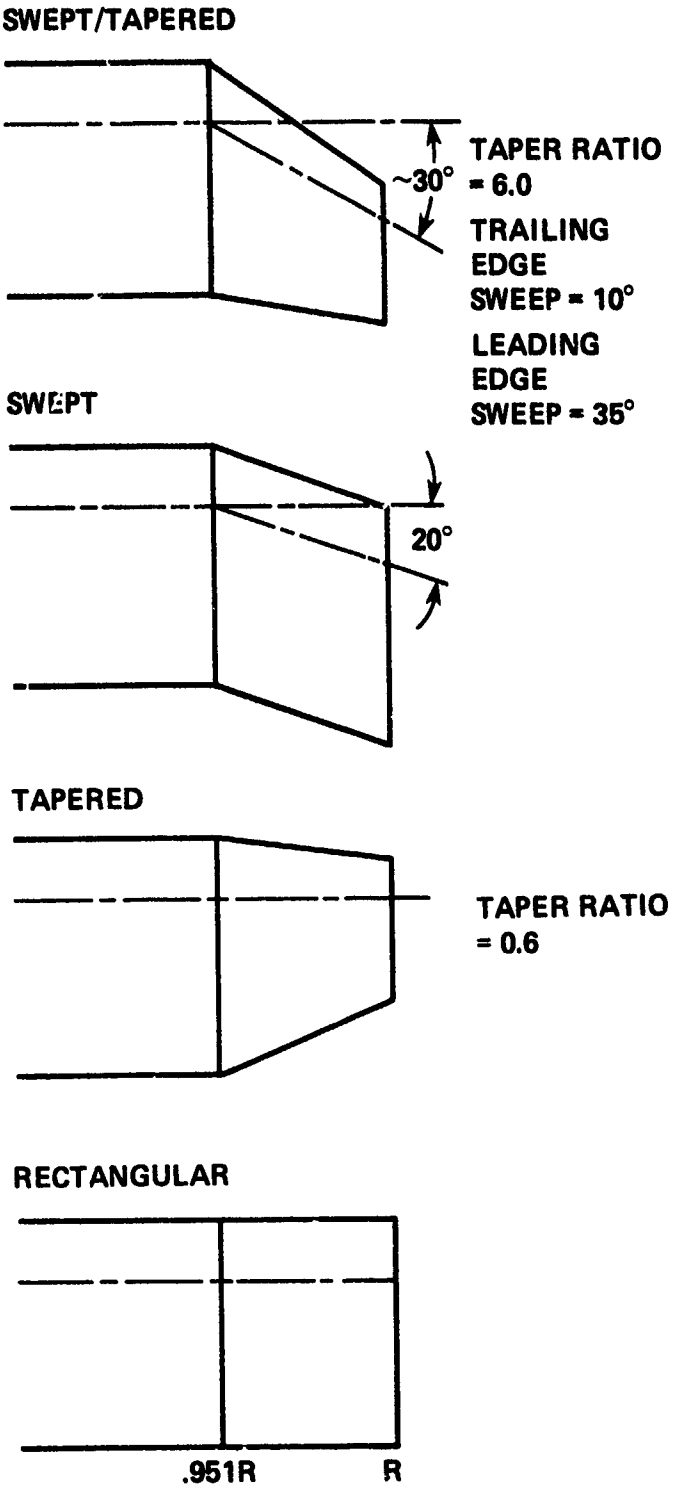


Figure 6. Tip planform geometry.

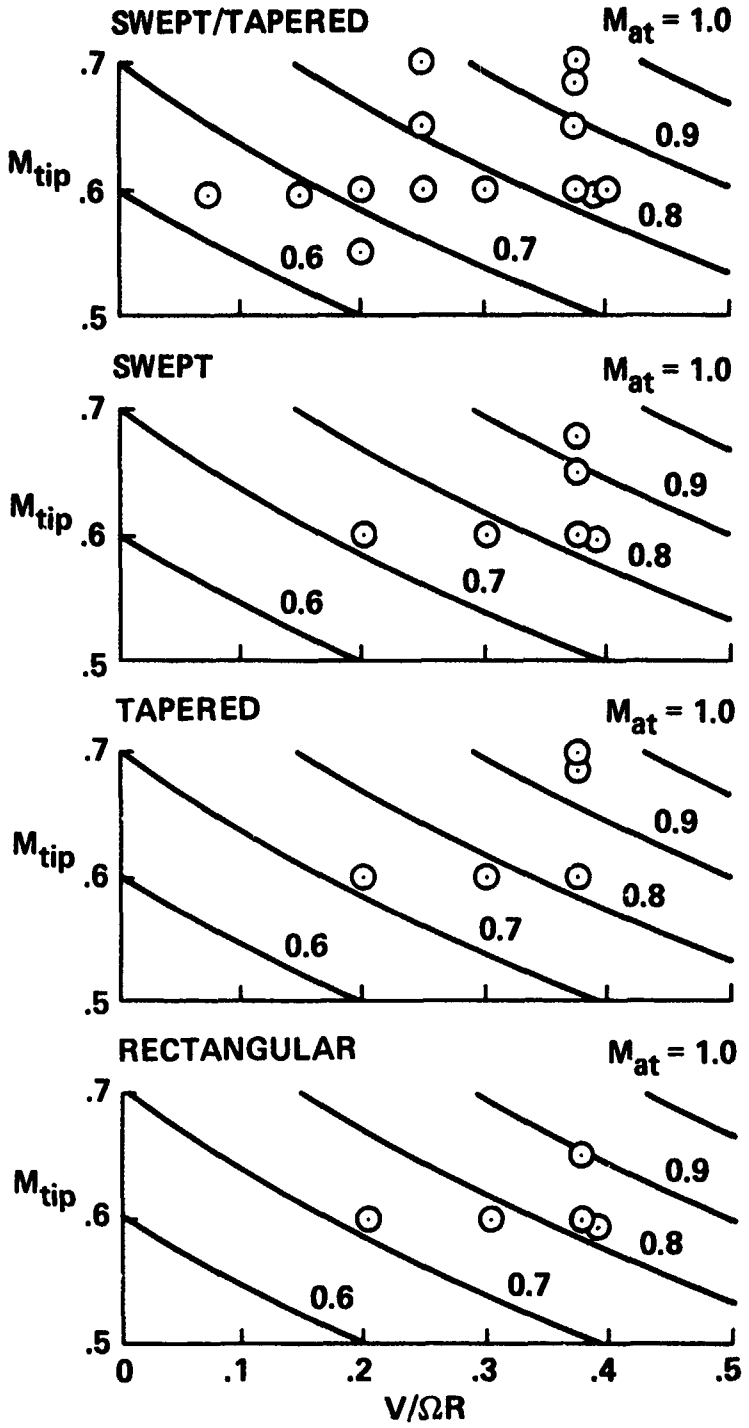


Figure 7. Test conditions for the four tip planforms

SECTION A

Tabulated Performance Data

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2A

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 12							
PT 16	0.2006	0.6581	-0.002000	-0.000830	-0.000274	0.001122	3.4
	73.4	618.1	-0.000091	0.000000	-0.000242	0.001289	-3.1
	0.0	0.0	0.0023				
PT 17	0.2013	0.6575	0.039320	-0.000870	-0.000918	0.001244	2.2
	73.5	617.2	0.000183	0.000000	-0.000166	0.001132	-3.5
	0.0	4.0	0.0023				
PT 18	0.1997	0.6581	0.059350	-0.001190	-0.001602	0.001635	1.5
	73.1	618.6	0.000180	0.000000	-0.000251	0.001214	-4.0
	0.0	6.0	0.0023				
PT 19	0.2007	0.6587	0.079590	-0.001470	-0.002525	0.002230	0.4
	73.5	618.6	0.000167	0.000000	-0.000333	0.001345	-4.1
	0.0	8.0	0.0023				
PT 20	0.2012	0.6594	0.100170	-0.001790	-0.003920	0.003048	-0.6
	73.7	619.0	0.000142	0.000000	-0.000430	0.001543	-4.7
	0.0	10.0	0.0023				
PT 21	0.2013	0.6576	0.050390	0.001160	-0.001250	0.001936	-1.1
	73.5	617.2	-0.000266	0.000000	-0.000453	0.001231	-3.8
	-2.5	6.0	0.0023				
PT 22	0.1995	0.6595	0.070880	0.001910	-0.002069	0.002706	-2.1
	73.2	620.0	-0.000181	0.000000	-0.000481	0.001385	-4.1
	-2.5	8.0	0.0023				
PT 23	0.2002	0.6599	0.091900	0.002420	-0.003569	0.003620	-3.1
	73.4	620.0	-0.000131	0.000000	-0.000640	0.001560	-4.8
	-2.5	10.0	0.0023				
PT 24	0.2011	0.6589	0.111580	0.002750	-0.004843	0.004841	-4.0
	73.6	618.6	-0.000243	0.000000	-0.000682	0.001973	-5.3
	-2.5	12.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHOJO	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.2011	0.6570	0.041760	0.002770	-0.000958	0.002123	-3.6
	73.4	616.7	-0.000353	0.000000	-0.000471	0.001241	-3.5
	-5.0	6.0	0.0023				
PT 26	0.1994	0.6589	0.063200	0.004360	-0.001805	0.002949	-4.5
	73.1	619.5	-0.000325	0.000000	-0.000633	0.001331	-3.9
	-5.0	8.0	0.0023				
PT 27	0.2001	0.6588	0.084100	0.005750	-0.002925	0.004036	-5.4
	73.3	619.0	-0.000286	0.000000	-0.000770	0.001563	-4.5
	-5.0	10.0	0.0023				
PT 28	0.1996	0.6590	0.103780	0.007220	-0.004227	0.005323	-6.3
	73.2	619.5	-0.000346	0.000000	-0.000900	0.001866	-5.1
	-5.0	12.0	0.0023				
PT 29	0.2007	0.6606	0.121100	0.008810	-0.005742	0.006973	-7.3
	73.7	620.4	-0.000441	0.000000	-0.001124	0.002474	-5.7
	-5.0	14.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1G 2J

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO1J0	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 61							
PT 4	0.0657	0.6338	0.071060	-0.004270	0.000126	0.003866	-0.1
	26.2	673.2	-0.000265	0.000000	-0.000305	0.001272	2.3
	0.0	9.2	0.0023				
PT 5	0.0759	0.6417	0.071340	-0.001930	-0.001869	0.003694	-2.1
	30.3	675.0	-0.001536	0.000000	0.000071	0.001334	2.6
	0.0	9.1	0.0023				
PT 8	0.0769	0.6411	0.070600	-0.019690	-0.002323	0.001943	12.2
	30.6	673.2	0.000334	0.000000	0.000315	0.001035	0.6
	10.0	7.0	0.0023				
PT 10	0.0755	0.6403	0.072360	-0.002170	-0.001058	0.003765	-1.9
	30.1	673.2	-0.001704	0.000000	0.000150	0.001336	2.6
	0.0	9.1	0.0023				
PT 11	0.0757	0.6408	0.070610	0.000690	-0.002177	0.003819	-4.0
	30.2	673.6	0.000221	0.000000	-0.000013	0.001305	3.5
	0.0	9.1	0.0023				
PT 12	0.0712	0.6373	0.074240	-0.006230	-0.000885	0.003751	1.1
	28.3	672.7	-0.002463	0.000000	0.000092	0.001303	2.0
	0.0	9.1	0.0023				
PT 13	0.0785	0.6430	0.072440	-0.001920	-0.001107	0.003674	-1.8
	31.3	674.1	-0.000967	0.000000	0.000235	0.001325	4.5
	0.0	9.1	0.0023				
PT 14	0.0751	0.6409	0.071130	-0.001730	0.001460	0.003709	-2.5
	30.0	674.1	-0.001687	0.000000	0.000859	0.001322	1.0
	0.0	9.1	0.0023				
PT 15	0.0746	0.6406	0.071410	-0.002200	-0.003434	0.003703	-1.7
	29.8	674.1	-0.001700	0.000000	-0.000456	0.001313	2.8
	0.0	9.1	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 16	0.0748	0.6418	0.089930	-0.006070	-0.000778	0.005120	-0.3
	29.9	674.6	-0.001761	0.000000	0.000241	0.001530	2.7
	0.0	11.1	0.0023				
PT 17	0.0749	0.6392	0.052150	0.000420	-0.000615	0.002563	-3.5
	29.8	671.8	-0.001480	0.000000	0.000573	0.001175	3.0
	0.0	7.1	0.0023				
PT 18	0.0764	0.6410	0.078690	-0.010150	-0.000793	0.003544	3.6
	30.4	672.7	-0.002022	0.000000	-0.000146	0.001290	2.9
	5.0	9.1	0.0023				
PT 19	0.0764	0.6423	0.066150	0.004910	-0.000441	0.003827	-7.7
	30.5	674.1	-0.001288	0.000000	0.000748	0.001310	3.5
	-5.0	9.1	0.0023				
PT 20	0.0782	0.6425	0.072690	-0.001740	-0.000863	0.003705	-2.3
	31.1	673.2	-0.001969	0.000000	-0.000315	0.001314	2.8
	0.0	9.1	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1F 2K

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 7							
PT 4	0.1491	0.6882	0.019620	-0.000590	-0.000015	0.001115	0.6
	59.0	668.6	-0.000164	0.000000	-0.000116	0.001106	4.6
	0.0	2.0	0.0024				
RUN 8							
PT 4	0.1512	0.6855	-0.001160	-0.000630	-0.000127	0.001087	0.3
	59.8	668.6	-0.000449	0.000000	-0.000076	0.001182	1.4
	0.0	0.0	0.0023				
PT 5	0.1508	0.6872	0.020240	-0.000710	-0.000127	0.001094	0.4
	59.6	670.4	0.000043	0.000000	0.000002	0.001099	1.3
	0.0	2.0	0.0023				
PT 6	0.1505	0.6889	0.040080	-0.001020	-0.000636	0.001345	-0.3
	59.9	672.3	0.000002	0.000000	-0.000156	0.001099	0.7
	0.0	4.0	0.0023				
PT 7	0.1519	0.6873	0.059950	-0.001520	-0.001311	0.001812	-1.2
	60.2	670.0	-0.000044	0.000000	-0.000239	0.001158	0.4
	0.0	6.0	0.0023				
PT 8	0.1511	0.6872	0.080150	-0.002540	-0.002091	0.002478	-1.6
	60.0	670.9	-0.000010	0.000000	-0.000219	0.001273	0.0
	0.0	8.0	0.0023				
PT 9	0.1514	0.6874	0.090980	-0.003250	-0.002722	0.002938	-1.9
	60.1	670.9	-0.000007	0.000000	-0.000263	0.001387	-0.4
	0.0	9.0	0.0023				
PT 10	0.1518	0.6843	0.101160	-0.003830	-0.003412	0.003461	-2.2
	60.0	667.7	0.000028	0.000000	-0.000375	0.001523	-0.8
	0.0	10.0	0.0023				
PT 11	0.1507	0.6862	0.109950	-0.004160	-0.003846	0.004106	-2.6
	59.7	669.5	-0.000260	0.000000	-0.000416	0.001735	-0.9
	0.0	11.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.1503 59.6 0.0	0.6862 670.4 12.0	0.120590 -0.000094 0.0023	-0.005220 0.000000	-0.004642 -0.000381	0.004756 0.001923	-2.7 -1.3
PT 13	0.1502 59.8 0.0	0.6885 672.7 13.0	0.130270 -0.000092 0.0023	-0.005980 0.000000	-0.005434 -0.000375	0.005595 0.002271	3.0 1.8
PT 14	0.1519 60.3 0.0	0.6872 670.4 14.0	0.137900 -0.000268 0.0023	-0.006180 0.000000	-0.006155 -0.000425	0.006507 0.002767	3.0 1.9
PT 15	0.1511 60.1 -2.5	0.6881 671.8 2.0	0.033400 -0.000317 0.0023	0.000410 0.000000	-0.000455 -0.000210	0.001455 0.001118	-1.6 1.8
RUN 9 PT 3	0.1501 59.5 -5.0	0.6894 670.4 4.0	0.021760 -0.000397 0.0024	0.001540 0.000000	0.000151 -0.000025	0.001478 0.001129	-4.6 3.2
PT 4	0.1503 59.4 -5.0	0.6872 668.1 6.0	0.040910 -0.000362 0.0024	0.002860 0.000000	0.000145 -0.000145	0.002009 0.001163	-4.2 3.4
PT 5	0.1500 59.1 -5.0	0.6851 666.3 8.0	0.054070 -0.000427 0.0024	0.003840 0.000000	0.000006 -0.000206	0.002536 0.001232	-4.0 3.6
PT 6	0.1509 59.9 -5.0	0.6899 670.4 10.0	0.070810 -0.000402 0.0024	0.004700 0.000000	-0.000821 -0.000406	0.003320 0.001369	-3.7 4.2
PT 7	0.1507 59.6 -5.0	0.6879 668.6 12.0	0.086250 -0.000408 0.0024	0.005410 0.000000	-0.001390 -0.000497	0.004201 0.001540	-3.3 4.6
PT 8	0.1517 59.8 -5.0	0.6866 666.7 13.0	0.093940 -0.000565 0.0024	0.005790 0.000000	-0.001911 -0.000595	0.004728 0.001676	-3.2 5.1

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 9	0.1509	0.6852	0.021580	0.001560	0.000202	0.001483	-4.6
	59.4	665.8	-0.000439	0.000000	-0.000059	0.001132	3.1
	-5.0	4.0	0.0024				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 10							
PT 3	0.2011	0.7169	0.040570	0.002970	-0.000277	0.002176	-4.6
	78.8	662.6	-0.000250	0.000000	0.000091	0.001272	2.7
	-5.0	6.0	0.0024				
PT 4	0.2004	0.7180	0.061290	0.004770	-0.000604	0.003034	-4.3
	78.7	664.0	-0.000333	0.000000	-0.000046	0.001377	3.1
	-5.0	8.0	0.0024				
PT 5	0.2007	0.7182	0.081850	0.006310	-0.001350	0.004103	-4.1
	78.9	664.0	-0.000338	0.000000	-0.000151	0.001588	3.6
	-5.0	10.0	0.0024				
PT 6	0.2005	0.7205	0.092260	0.006970	-0.001893	0.004721	-4.0
	79.0	666.3	-0.000416	0.000000	-0.000299	0.001737	4.0
	-5.0	11.0	0.0024				
PT 7	0.1995	0.7199	0.101170	0.007740	-0.002943	0.005400	-4.0
	78.7	666.3	-0.000457	0.000000	-0.000443	0.001938	4.6
	-5.0	12.0	0.0024				
PT 8	0.2013	0.7162	0.111150	0.008590	-0.003276	0.006271	-3.8
	79.0	663.0	-0.000554	0.000000	-0.000514	0.002248	4.8
	-5.0	13.0	0.0024				
PT 9	0.2012	0.7166	0.119550	0.009290	-0.003599	0.007168	-3.7
	79.0	663.5	-0.000497	0.000000	-0.000691	0.002643	3.0
	-5.0	14.0	0.0024				
PT 10	0.2021	0.7157	-0.004840	-0.000980	-0.000508	0.001133	-0.1
	79.2	662.1	-0.000065	0.000000	0.000386	0.001326	3.0
	0.0	0.0	0.0024				
PT 11	0.2017	0.7179	0.015540	-0.000630	-0.000334	0.001117	0.2
	79.3	664.4	0.000076	0.000000	0.000434	0.001199	3.1
	0.0	2.0	0.0024				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.2016 79.0 0.0	0.7159 662.6 4.0	0.037280 0.000094 0.0024	-0.000520 0.000000	-0.000375 0.000413	0.001314 0.001160	0.4 3.0
PT 13	0.2006 78.9 0.0	0.7177 664.9 6.0	0.057570 0.000119 0.0024	-0.000720 0.000000	-0.000901 0.000296	0.001696 0.001223	0.6 3.0
PT 14	0.2004 79.0 0.0	0.7179 665.8 8.0	0.078070 -0.000015 0.0024	-0.000690 0.000000	-0.001551 0.000229	0.002362 0.001363	0.9 3.0
PT 15	0.2005 79.0 0.0	0.7179 665.8 10.0	0.098110 0.000028 0.0024	-0.001160 0.000000	-0.002552 0.000215	0.003152 0.001590	1.1 3.0
PT 16	0.2003 78.9 0.0	0.7178 665.8 12.0	0.119120 -0.000154 0.0024	-0.001410 0.000000	-0.003719 0.000129	0.004469 0.002104	1.3 3.0
PT 17	0.2003 78.8 -2.5	0.7168 664.9 5.2	0.007460 -0.000234 0.0024	-0.000400 0.000000	-0.000427 0.000115	0.001170 0.001239	-2.4 3.0
PT 18	0.1997 78.8 -2.5	0.7184 666.7 4.0	0.029260 -0.000118 0.0024	0.000700 0.000000	-0.000493 0.000100	0.001489 0.001190	-2.2 3.0
PT 19	0.2022 79.3 -2.5	0.7160 663.0 6.0	0.049530 -0.000174 0.0024	0.001540 0.000000	-0.000934 -0.000003	0.002019 0.001255	-2.0 3.1
PT 20	0.2008 79.3 -2.5	0.7196 667.2 8.0	0.069400 -0.000210 0.0024	0.002360 0.000000	-0.001528 -0.000044	0.002772 0.001402	-1.7 3.0
PT 21	0.2003 78.9 -2.5	0.7173 665.3 10.0	0.089380 -0.000349 0.0024	0.003150 0.000000	-0.002438 -0.000122	0.003758 0.001637	-1.5 3.0

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 22	0.2009 79.4 -2.5	0.7195 667.7 12.0	0.109110 -0.000422 0.0024	0.003900 0.000000	-0.003897 -0.000256	0.005045 0.002046	-1.3 3.0
PT 23	0.2008 79.1 -2.5	0.7174 665.8 13.0	0.119350 -0.000452 0.0024	0.004170 0.000000	-0.004550 -0.000351	0.005878 0.002390	-1.2 3.1
PT 24	0.2012 79.0 -7.5	0.7157 664.0 8.0	0.053200 -0.000492 0.0024	0.006600 0.000000	-0.001030 -0.000363	0.003229 0.001374	-6.9 3.1
PT 25	0.2007 79.0 -7.5	0.7169 665.3 10.0	0.074930 -0.000494 0.0024	0.009250 0.000000	-0.001679 -0.000649	0.004472 0.001570	-6.7 3.0
PT 26	0.2009 79.3 -7.5	0.7190 667.2 12.0	0.093910 -0.000568 0.0024	0.011690 0.000000	-0.002838 -0.000846	0.005890 0.001901	-6.5 3.0
RUN 11							
PT 2	0.2014 80.4 -7.5	0.7161 674.3 8.0	0.053780 -0.000401 0.0023	0.006900 0.000000	-0.002218 -0.000747	0.003334 0.001408	-8.0 3.4
PT 3	0.2014 80.3 -7.5	0.7150 673.9 10.0	0.075130 -0.000255 0.0023	0.009430 0.000000	-0.003244 -0.000931	0.004572 0.001626	-19.5 5.2
PT 4	0.2033 80.9 -7.5	0.7142 672.3 12.0	0.095000 -0.000350 0.0023	0.012020 0.000000	-0.004939 -0.001180	0.006021 0.001918	-20.3 4.3
PT 5	0.1999 80.2 -7.5	0.7178 678.0 13.0	0.104320 -0.000443 0.0023	0.013510 0.000000	-0.005557 -0.001377	0.006752 0.002017	-20.8 4.1
PT 6	0.2006 80.4 -7.5	0.7172 677.1 14.0	0.114040 -0.000620 0.0023	0.014610 0.000000	-0.006154 -0.001508	0.007831 0.002477	-21.1 3.9

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 7	0.2005 80.4 -7.5	0.7181 678.0 15.0	0.121700 -0.000631 0.0023	0.015790 0.000000	-0.006990 -0.001698	0.008892 0.002965	-21.5 3.3
PT 8	0.1997 80.3 -7.5	0.7190 679.4 16.0	0.126420 -0.000688 0.0023	0.016670 0.000000	-0.007277 -0.002071	0.010102 0.003782	-22.4 3.3
PT 9	0.2010 80.4 10.0	0.7152 676.2 0.0	0.029740 0.000332 0.0023	-0.006650 0.000000	-0.001327 0.000107	0.000156 0.001329	-3.5 20.9
PT 10	0.2004 80.3 10.0	0.7162 677.6 1.0	0.038160 0.000503 0.0023	-0.008270 0.000000	-0.001537 0.000144	-0.000090 0.001296	-3.6 20.9
PT 11	0.1996 80.1 10.0	0.7167 678.5 2.0	0.047170 0.000587 0.0023	-0.009810 0.000000	-0.001721 0.000171	-0.000264 0.001277	-4.1 20.8
PT 12	0.2006 80.3 10.0	0.7154 676.6 4.0	0.069610 0.000765 0.0023	-0.014390 0.000000	-0.002800 0.000084	-0.000626 0.001359	-4.8 20.5
PT 13	0.2016 80.6 10.0	0.7150 675.7 6.0	0.089800 0.000882 0.0023	-0.018570 0.000000	-0.003826 0.000066	-0.000810 0.001439	-5.4 20.3
PT 14	0.2019 80.9 10.0	0.7165 677.6 8.0	0.111350 0.000944 0.0023	-0.022960 0.000000	-0.005004 0.000074	-0.000691 0.001650	-6.1 20.2
PT 15	0.2021 80.9 10.0	0.7151 676.2 9.0	0.122540 0.000907 0.0023	-0.025360 0.000000	-0.005867 0.000049	-0.000544 0.001804	-6.5 20.0
RUN 12 PT 3	0.2009 80.2 10.0	0.7190 674.8 4.0	0.068610 0.000489 0.0023	-0.014010 0.000000	-0.002563 -0.000126	-0.000626 0.001313	12.2 -4.1

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO1J0	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 4	0.2008	0.7165	0.109860	-0.022450	-0.004851	-0.000693	10.7
	79.9	672.7	0.000805	0.000000	-0.000222	0.001567	-4.6
	10.0	8.0	0.0023				
PT 5	0.2003	0.7186	0.081110	-0.001600	-0.002760	0.002260	0.4
	80.0	674.8	0.000129	0.000000	-0.000223	0.001352	-4.3
	0.0	8.0	0.0023				
RUN 62							
PT 7	0.1994	0.7199	0.047220	0.002400	-0.001423	0.002144	-10.0
	79.5	674.1	0.000112	0.000000	-0.000218	0.001248	8.3
	-3.8	6.2	0.0023				
PT 8	0.2007	0.7199	0.079630	0.002930	-0.002935	0.003282	-10.5
	79.9	672.7	0.000204	0.000000	-0.000326	0.001513	7.6
	-2.9	9.0	0.0023				
RUN 63							
PT 2	0.2002	0.7208	0.082660	0.003100	-0.003152	0.003427	-10.0
	79.4	670.0	0.000039	0.000000	-0.000310	0.001531	7.6
	-2.9	9.0	0.0023				
PT 3	0.2016	0.7202	0.073870	0.005770	-0.002559	0.003717	-12.3
	79.8	668.6	-0.000788	0.000000	-0.000410	0.001543	8.2
	-2.9	9.0	0.0023				
PT 4	0.1989	0.7180	0.089430	-0.000020	-0.003473	0.002996	-8.1
	78.6	668.1	0.000830	0.000000	-0.000180	0.001496	6.9
	-2.9	9.0	0.0023				
PT 20	0.1998	0.7194	0.049990	0.003180	-0.001473	0.002394	-7.9
	79.5	672.7	-0.000270	0.000000	-0.000296	0.001291	8.6
	-3.8	6.9	0.0023				
PT 21	0.2004	0.7169	0.082880	0.004030	-0.002999	0.003665	-11.4
	79.6	671.3	-0.000340	0.000000	-0.000359	0.001577	7.4
	-2.9	9.4	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1B 2C

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 11							
PT 19	0.2510	0.7498	-0.001940	-0.001240	-0.000564	0.001119	-1.5
	100.9	679.4	0.000135	0.000000	0.000106	0.001430	8.7
	0.0	0.0	0.0023				
PT 20	0.2513	0.7494	0.017790	-0.001090	-0.000654	0.001094	-2.3
	101.0	678.9	0.000262	0.000000	0.000091	0.001317	8.6
	0.0	2.0	0.0023				
PT 21	0.2510	0.7476	0.038330	-0.001050	-0.001147	0.001245	-3.3
	100.7	678.0	0.000373	0.000000	0.000034	0.001290	8.3
	0.0	4.0	0.0023				
PT 22	0.2502	0.7491	0.058090	-0.001130	-0.001762	0.001544	-4.3
	100.7	679.9	0.000359	0.000000	0.000095	0.001322	8.2
	0.0	6.0	0.0023				
PT 23	0.2505	0.7487	0.077900	-0.001280	-0.002689	0.002120	-5.7
	100.7	679.4	0.000349	0.000000	-0.000072	0.001534	8.1
	0.0	8.0	0.0023				
PT 24	0.2505	0.7503	0.099310	-0.001440	-0.004062	0.002900	-6.8
	100.9	680.8	0.000266	0.000000	-0.000195	0.001790	7.5
	0.0	10.0	0.0023				
PT 25	0.2512	0.7502	0.117520	-0.001270	-0.005751	0.004193	-8.1
	101.1	680.3	0.000093	0.000000	-0.000209	0.002458	7.0
	0.0	12.0	0.0023				
PT 26	0.2512	0.7481	0.124800	-0.000990	-0.006801	0.005110	-8.8
	100.8	678.5	0.000074	0.000000	-0.000251	0.003041	6.7
	0.0	13.0	0.0023				
PT 27	0.2512	0.7482	0.058600	0.004060	-0.001790	0.003019	-10.4
	100.8	678.5	-0.000070	0.000000	-0.000400	0.001488	8.2
	-5.0	8.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 28	0.2502	0.7510	0.078110	0.005900	-0.002796	0.004134	-11.7
	100.9	681.7	-0.000255	0.000000	-0.000594	0.001746	7.9
	-5.0	10.0	0.0023				
RUN 12							
PT 6	0.2504	0.7487	0.038090	-0.001130	-0.001066	0.001245	1.6
	99.9	674.3	-0.000103	0.000000	-0.000227	0.001312	-3.3
	0.0	4.0	0.0023				
PT 7	0.2517	0.7480	0.079110	-0.001190	-0.002860	0.002124	-0.8
	100.3	673.2	0.000033	0.000000	-0.000347	0.001494	-3.9
	0.0	8.0	0.0023				
PT 8	0.2514	0.7478	0.059190	0.004020	-0.001732	0.003026	-5.5
	100.1	673.2	-0.000421	0.000000	-0.000702	0.001495	-3.5
	-5.0	8.0	0.0023				
PT 9	0.2523	0.7474	0.078480	0.005770	-0.002885	0.004072	-6.9
	100.4	672.3	-0.000482	0.000000	-0.000910	0.001703	-4.0
	-5.0	10.0	0.0023				
PT 10	0.2513	0.7488	0.097960	0.007430	-0.004081	0.005389	-7.9
	100.2	673.9	-0.000564	0.000000	-0.000965	0.002093	-4.4
	-5.0	12.0	0.0023				
PT 11	0.2503	0.7507	0.114340	0.009360	-0.005695	0.007080	-9.1
	100.1	676.2	-0.000580	0.000000	-0.001254	0.002784	-5.1
	-5.0	14.0	0.0023				
PT 12	0.2514	0.7461	0.046960	0.001180	-0.001230	0.001950	-2.0
	100.0	672.3	-0.000054	0.000000	-0.000298	0.001324	-3.2
	-2.5	6.0	0.0023				
PT 13	0.2502	0.7474	0.068610	0.001980	-0.002174	0.002674	-3.2
	99.8	673.9	-0.000140	0.000000	-0.000394	0.001474	-3.6
	-2.5	8.0	0.0023				
PT 14	0.2510	0.7494	0.088360	0.002790	-0.003427	0.003567	-4.5
	100.3	675.3	-0.000211	0.000000	-0.000540	0.001705	-4.0
	-2.5	10.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 15	0.2512	0.7496	0.107280	0.003780	-0.004014	0.004870	-5.8
	100.4	675.3	-0.000405	0.000000	-0.000673	0.002208	-4.5
	-2.5	12.0	0.0023				
RUN 54							
PT 16	0.2499	0.7520	0.057770	0.004490	-0.001667	0.003131	-10.9
	101.0	683.3	-0.000196	0.000000	-0.000489	0.001509	3.2
	-5.0	8.0	0.0023				
PT 17	0.2502	0.7526	0.077400	0.006060	-0.002676	0.004152	-12.0
	101.0	682.4	-0.000361	0.000000	-0.000599	0.001740	2.8
	-5.0	10.0	0.0023				
PT 18	0.2487	0.7539	0.098240	0.007850	-0.004635	0.005548	-13.2
	100.6	683.8	-0.000319	0.000000	-0.000785	0.002144	2.0
	-5.0	12.0	0.0023				
PT 19	0.2496	0.7536	0.082980	0.005610	0.001688	0.004278	-11.1
	100.8	682.4	-0.000138	0.000000	0.000548	0.001847	5.7
	-5.0	10.4	0.0023				
PT 20	0.2509	0.7508	0.079430	0.006880	-0.006869	0.004470	-13.1
	100.8	679.2	-0.000298	0.000000	-0.001645	0.001804	0.2
	-5.0	10.4	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 14							
PT 3	0.3007	0.7802	-0.003260	-0.001460	-0.000482	0.001167	0.6
	119.0	668.6	-0.000405	0.000000	-0.000215	0.001604	0.2
	0.0	0.0	0.0023				
PT 4	0.3020	0.7773	0.014700	-0.001170	-0.000466	0.001138	-0.5
	118.9	665.3	-0.000304	0.000000	-0.000139	0.001466	0.3
	0.0	2.0	0.0023				
PT 5	0.3036	0.7749	0.035060	-0.001030	-0.000847	0.001257	-1.5
	119.4	664.4	-0.000164	0.000000	-0.000102	0.001418	0.1
	0.0	4.0	0.0023				
PT 6	0.2998	0.7809	0.053200	-0.000810	-0.001374	0.001582	-3.0
	119.3	672.3	-0.000167	0.000000	-0.000153	0.001471	0.1
	0.0	6.0	0.0023				
PT 7	0.3008	0.7807	0.072120	-0.000300	-0.002171	0.002186	-4.6
	119.7	672.3	-0.000266	0.000000	-0.000270	0.001630	-0.1
	0.0	8.0	0.0023				
PT 8	0.2989	0.7839	0.091330	-0.000320	-0.003648	0.002909	-6.0
	119.5	675.7	-0.000265	0.000000	-0.000381	0.001962	-0.5
	0.0	10.0	0.0023				
PT 9	0.3003	0.7818	0.108000	0.000170	-0.005376	0.004180	-7.4
	119.7	673.9	-0.000377	0.000000	-0.000586	0.002679	-1.3
	0.0	12.0	0.0023				
PT 10	0.3003	0.7813	0.032330	0.001700	-0.000619	0.002180	-7.5
	119.7	673.4	-0.000474	0.000000	-0.000517	0.001539	0.3
	-5.0	6.0	0.0023				
PT 11	0.2997	0.7818	0.052140	0.003520	-0.001482	0.003020	-8.9
	119.7	674.8	-0.000463	0.000000	-0.000654	0.001625	-0.2
	-5.0	8.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3009	0.7802	0.070690	0.005460	-0.002402	0.004093	-10.5
	119.9	673.4	-0.000710	0.000000	-0.000875	0.001830	-0.5
	-5.0	10.0	0.0023				
PT 13	0.2996	0.7802	0.089330	0.007150	-0.003283	0.005307	-11.7
	119.6	674.8	-0.000711	0.000000	-0.000959	0.002169	-0.9
	-5.0	12.0	0.0023				
PT 14	0.3003	0.7817	0.105230	0.009160	-0.004749	0.007149	-12.9
	120.1	675.7	-0.000799	0.000000	-0.001240	0.003019	-1.9
	-5.0	14.0	0.0023				
PT 15	0.2999	0.7809	0.110440	0.010150	-0.005284	0.008359	-13.6
	119.8	675.3	-0.000811	0.000000	-0.001505	0.003795	-2.4
	-5.0	15.0	0.0023				
PT 16	0.2998	0.7814	0.073760	0.010270	-0.001464	0.005861	-13.9
	119.9	675.7	-0.002068	0.000000	-0.001004	0.002102	0.4
	-5.0	12.0	0.0023				
PT 17	0.3010	0.7795	0.073000	0.001540	-0.002505	0.002765	-7.0
	119.9	673.4	0.000768	0.000000	-0.000552	0.001641	-1.2
	-5.0	8.7	0.0023				
PT 18	0.3012	0.7779	0.028730	0.004160	-0.000316	0.002888	-13.3
	119.9	672.7	-0.000670	0.000000	-0.000763	0.001533	0.5
	-10.0	8.0	0.0023				
PT 19	0.3008	0.7790	0.048260	0.007830	-0.000740	0.004363	-14.8
	120.0	674.3	-0.000839	0.000000	-0.001201	0.001718	0.1
	-10.0	10.0	0.0023				
PT 20	0.3012	0.7798	0.066310	0.011570	-0.001660	0.006030	-16.1
	120.3	674.8	-0.000858	0.000000	-0.001569	0.001965	-0.5
	-10.0	12.0	0.0023				
RUN 15							
PT 3	0.3015	0.7783	0.038540	0.004280	-0.000849	0.003113	-8.5
	119.0	667.2	-0.000556	0.000000	-0.000613	0.001638	-2.8
	-7.5	8.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 4	0.3008	0.7809	0.046530	0.005640	-0.001309	0.003684	-9.5
	119.3	670.4	-0.000668	0.000000	-0.000786	0.001720	-3.2
	-7.5	9.0	0.0023				
PT 5	0.3001	0.7613	0.057500	0.007180	-0.002113	0.004345	-10.3
	119.3	671.8	-0.000762	0.000000	-0.001018	0.001778	-3.7
	-7.5	10.0	0.0023				
PT 6	0.3010	0.7804	0.075390	0.009980	-0.003472	0.005841	-11.6
	119.7	671.8	-0.000833	0.000000	-0.001297	0.002132	-4.4
	-7.5	12.0	0.0023				
PT 7	0.3016	0.7794	0.093590	0.012810	-0.005247	0.007557	-12.8
	119.8	671.3	-0.000988	0.000000	-0.001555	0.002609	-5.1
	-7.5	14.0	0.0023				
PT 8	0.2997	0.7813	0.102310	0.014070	-0.005824	0.008558	-13.2
	119.6	674.3	-0.000778	0.000000	-0.001809	0.003035	-5.5
	-7.5	15.0	0.0023				
PT 9	0.3016	0.7785	0.025670	-0.004320	-0.001634	0.000370	8.8
	119.9	671.8	-0.000071	0.000000	-0.000010	0.001591	-3.5
	6.0	0.0	0.0023				
PT 10	0.3020	0.7785	0.041890	-0.005980	-0.002055	-0.000092	7.9
	120.1	672.3	0.000162	0.000000	0.000054	0.001496	-3.6
	6.0	2.0	0.0023				
PT 11	0.3025	0.7778	0.061370	-0.007980	-0.002979	-0.000320	6.7
	120.2	671.3	0.000210	0.000000	0.000020	0.001628	-3.7
	6.0	4.0	0.0023				
PT 12	0.3011	0.7788	0.078870	-0.009700	-0.003896	-0.000311	5.3
	120.0	673.4	0.000240	0.000000	0.000006	0.001836	-3.6
	6.0	6.0	0.0023				
PT 13	0.3011	0.7797	0.098670	-0.011630	-0.005239	-0.000171	3.9
	120.2	674.8	0.000289	0.000000	-0.000024	0.002123	-3.8
	6.0	8.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 14	0.3011	0.7802	0.116470	-0.012880	-0.006636	0.000536	2.3
	120.3	675.3	0.000291	0.000000	-0.000012	0.002730	-4.0
	0.0	10.0	0.0023				
PT 15	0.3022	0.7791	0.123000	-0.012540	-0.007539	0.001523	1.2
	120.6	674.3	0.000198	0.000000	0.000009	0.003441	-4.2
	6.0	11.0	0.0023				
RUN 22							
PT 3	0.3006	0.7840	0.056090	0.001520	-0.002027	0.002483	-5.9
	119.2	670.0	-0.000204	0.000000	-0.000294	0.001636	-0.9
	-2.5	7.3	0.0023				
PT 4	0.3030	0.7797	0.073270	0.002390	-0.002723	0.003227	-7.1
	119.5	666.3	-0.000226	0.000000	-0.000406	0.001840	-0.9
	-2.5	9.2	0.0023				
PT 5	0.3024	0.7818	0.088930	0.003300	-0.004199	0.004087	-8.3
	119.7	669.0	-0.000437	0.000000	-0.000598	0.002112	-1.3
	-2.5	10.8	0.0023				
PT 6	0.3021	0.7822	0.057620	0.002500	-0.002269	0.002798	-7.7
	119.9	670.9	0.000750	0.000000	-0.000529	0.001631	-1.8
	-6.5	7.7	0.0023				
PT 7	0.3029	0.7796	0.074800	0.003550	-0.003538	0.003642	-8.8
	120.0	669.5	0.000750	0.000000	-0.000764	0.001877	-2.2
	-6.5	9.6	0.0023				
PT 8	0.3030	0.7796	0.074840	0.003190	-0.000537	0.003475	-8.0
	120.0	669.5	0.000785	0.000000	0.000060	0.001818	-0.1
	-6.5	9.6	0.0023				
PT 9	0.3038	0.7782	0.090120	0.004440	-0.004853	0.004482	-9.8
	120.3	669.0	0.000607	0.000000	-0.000937	0.002135	-2.5
	-6.5	11.2	0.0023				
PT 10	0.3027	0.7786	0.061000	0.002630	-0.002326	0.002832	-8.4
	120.2	671.3	0.002335	0.000000	-0.000658	0.001577	-2.6
	-10.5	8.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3037	C.7787	0.059920	0.002470	-0.000193	0.002808	-8.0
	120.6	670.9	0.002192	0.000000	-0.000063	0.001614	-0.9
	-10.5	8.0	0.0023				
PT 12	0.3030	C.7783	0.076940	0.004440	-0.001218	0.003937	-9.8
	120.3	670.9	0.001868	0.000000	-0.000453	0.001862	-1.3
	-10.5	10.0	0.0023				
PT 13	0.3033	C.7782	0.078080	0.004820	-0.003945	0.004102	-10.4
	120.5	671.3	0.001824	0.000000	-0.001145	0.001888	-2.7
	-10.5	10.3	0.0023				
PT 14	0.3040	C.7785	0.092400	0.006340	-0.005894	0.005198	-11.7
	120.8	671.8	0.001641	0.000000	-0.001548	0.002220	-3.6
	-10.5	11.8	0.0023				
PT 15	0.3010	0.7825	0.060780	0.008060	-0.002088	0.004726	-13.5
	120.5	676.6	0.000428	0.000000	-0.001367	0.001841	-1.8
	-11.5	10.3	0.0023				
PT 16	0.3028	0.7812	0.077060	0.010610	-0.003478	0.006056	-14.7
	121.0	675.3	0.000439	0.000000	-0.001730	0.002112	-2.4
	-11.5	12.0	0.0023				
PT 17	0.3002	0.7844	0.092160	0.013150	-0.004818	0.007605	-15.9
	120.7	679.4	0.000439	0.000000	-0.002027	0.002601	-2.8
	-11.5	13.9	0.0023				
RUN 60							
PT 3	0.2993	0.7818	0.070230	0.004420	-0.002349	0.003886	-11.7
	119.8	676.4	-0.000929	0.000000	-0.000146	0.001947	3.7
	-2.5	9.9	0.0023				
PT 4	0.2992	0.7831	0.068950	0.004560	-0.002280	0.003923	-11.9
	120.1	678.2	-0.000981	0.000000	-0.000146	0.001965	3.9
	-2.5	9.9	0.0023				
PT 5	0.2998	0.7823	0.056470	0.006020	-0.001394	0.004154	-13.9
	120.2	677.8	-0.002004	0.000000	-0.000204	0.001952	4.8
	-2.5	9.9	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 6	0.3028	0.7761	0.081200	0.001930	-0.002770	0.003331	-9.8
	120.4	672.3	0.000055	0.000000	0.000072	0.001932	3.0
	-2.5	9.9	0.0023				
PT 7	0.3005	0.7791	0.068360	0.004460	-0.000019	0.003911	-11.6
	120.2	675.9	-0.001033	0.000000	0.000531	0.001988	5.5
	-2.5	9.9	0.0023				
PT 8	0.3015	0.7775	0.068020	0.004780	-0.004319	0.003986	-12.6
	120.3	674.1	-0.001088	0.000000	-0.000800	0.001971	2.3
	-2.5	9.9	0.0023				
PT 9	0.3019	0.7765	0.069220	0.004600	-0.002308	0.003952	-12.0
	120.3	673.6	-0.000952	0.000000	-0.000174	0.001968	3.8
	-2.5	9.9	0.0023				
PT 10	0.3001	0.7802	0.096680	0.004130	-0.003296	0.004859	-12.0
	120.4	677.8	-0.000335	0.000000	0.000032	0.002454	3.6
	-2.5	11.9	0.0023				
PT 11	0.3011	0.7790	0.107970	0.003290	-0.003773	0.005480	-12.0
	120.6	676.9	-0.000022	0.000000	0.000040	0.003043	2.8
	-2.5	12.9	0.0023				
PT 12	0.3016	0.7777	0.042050	0.003640	-0.001281	0.003040	-12.0
	120.5	675.5	-0.001651	0.000000	-0.000222	0.001723	4.6
	-2.5	7.9	0.0023				
PT 13	0.3034	0.7729	0.068870	0.004660	-0.002143	0.003959	-12.1
	120.4	670.4	-0.000981	0.000000	-0.000110	0.001960	3.7
	-2.5	9.9	0.0023				
PT 14	0.3020	0.7772	0.057050	0.006270	-0.001879	0.004235	-13.1
	120.7	675.5	-0.001540	0.000000	-0.001031	0.001938	2.6
	-3.6	9.9	0.0023				
PT 15	0.3009	0.7781	0.078780	0.002410	-0.002485	0.003462	-10.0
	120.5	676.9	-0.000793	0.000000	0.000167	0.001966	3.8
	-0.5	9.9	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 16	0.3039	0.7741	0.068050	0.004670	-0.001077	0.003915	-11.8
	120.8	671.8	-0.000939	0.000000	0.000342	0.001927	3.7
	-2.5	9.9	0.0023				
PT 17	0.3015	0.7778	0.068700	0.004750	-0.003626	0.003962	-12.2
	120.8	676.9	-0.000678	0.000000	-0.000571	0.001945	4.4
	-2.5	9.9	0.0022				
PT 18	0.3018	0.7774	0.068480	0.004970	-0.001106	0.003940	-12.0
	120.8	676.4	-0.001277	0.000000	0.007794	0.001859	4.3
	-2.5	9.9	0.0022				
RUN 63							
PT 5	0.2994	0.7807	0.052240	0.004820	-0.001932	0.003458	-15.1
	118.5	669.0	-0.000346	0.000000	-0.000669	0.001673	8.7
	-6.2	8.7	0.0023				
PT 6	0.2991	0.7823	0.080690	0.005610	-0.003531	0.004528	-15.4
	118.9	671.8	-0.000569	0.000000	-0.000643	0.002037	8.3
	-4.2	11.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 19							
PT 23	0.3750	0.8242	0.038500	0.002210	-0.001666	0.003087	-6.1
	151.8	684.0	-0.000040	0.000000	-0.000211	0.002109	-2.5
	-5.0	8.0	0.0022				
PT 24	0.3761	0.8235	0.057200	0.004060	-0.002877	0.004218	-7.2
	151.8	682.2	-0.000074	0.000000	-0.000332	0.002365	-3.3
	-5.0	10.0	0.0022				
PT 25	0.3755	0.8236	0.074020	0.006220	-0.003693	0.005656	-7.5
	151.7	682.6	-0.000293	0.000000	-0.000563	0.002776	-4.0
	-5.0	12.0	0.0022				
PT 26	0.3738	0.8267	0.088880	0.008140	-0.004865	0.007338	-7.6
	151.6	685.4	-0.000235	0.000000	-0.000942	0.003507	-5.0
	-5.0	14.0	0.0022				
PT 27	0.3735	0.8272	0.100350	0.009970	-0.005549	0.009593	-8.8
	151.5	685.4	0.000272	0.000000	-0.001560	0.004863	-6.0
	-5.0	16.0	0.0022				
PT 28	0.3727	0.8281	0.094990	0.009290	-0.005250	0.008590	-8.4
	151.3	685.9	0.000009	0.000000	-0.001292	0.004223	-5.6
	-5.0	15.0	0.0022				
PT 29	0.3738	0.8271	-0.005290	-0.002030	-0.000825	0.001281	1.9
	151.4	684.5	0.000053	0.000000	0.000100	0.002036	-1.7
	0.0	0.0	0.0022				
PT 30	0.3752	0.8246	0.013010	-0.001780	-0.000909	0.001231	0.5
	151.3	681.7	0.000121	0.000000	0.000185	0.001881	-3.5
	0.0	2.0	0.0022				
PT 31	0.3734	0.8269	0.030660	-0.001460	-0.001223	0.001415	0.2
	151.2	684.5	0.000154	0.000000	0.000125	0.001867	-4.9
	0.0	4.0	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 32	0.3752	0.8243	0.046060	-0.001070	-0.001764	0.001746	0.5
	151.1	680.8	0.000054	0.000000	0.000070	0.001937	-4.5
	0.0	6.0	0.0022				
PT 33	0.3738	0.8264	0.063450	-0.000660	-0.002882	0.002377	-0.3
	151.0	682.6	0.000077	0.000000	-0.000057	0.002...	-4.3
	0.0	8.0	0.0022				
PT 34	0.3738	0.8270	0.080000	-0.000100	-0.004039	0.003161	-0.8
	151.1	683.1	-0.000017	0.000000	-0.000119	0.002559	-4.1
	0.0	10.0	0.0022				
PT 35	0.3731	0.8254	0.095450	0.000990	-0.003568	0.004765	-1.4
	150.6	682.2	-0.000092	0.000000	-0.000212	0.003482	-4.1
	0.0	12.0	0.0022				
RUN 20							
PT 6	0.3653	0.8080	0.088860	0.005290	-0.004908	0.005646	-13.9
	143.3	663.0	-0.000185	0.000000	-0.000484	0.002907	1.4
	-3.0	12.5	0.0023				
RUN 21							
PT 3	0.3764	0.8255	0.096540	0.000450	-0.005824	0.004739	-5.7
	148.2	665.3	-0.000008	0.000000	-0.000180	0.003643	-3.7
	0.0	12.0	0.0023				
PT 4	0.3786	0.8220	0.102940	0.001050	-0.006518	0.005928	-6.7
	148.7	664.0	-0.000105	0.000000	-0.000297	0.004483	-4.0
	0.0	13.0	0.0023				
PT 5	0.3753	0.8263	0.050650	0.008120	-0.001779	0.005673	-13.7
	148.9	670.4	-0.000362	0.000000	-0.001146	0.002371	-3.3
	-10.0	12.0	0.0023				
PT 6	0.3770	0.8264	0.066980	0.011510	-0.002971	0.007616	-15.2
	149.7	670.9	-0.000305	0.000000	-0.001631	0.002831	-3.8
	-10.0	14.0	0.0023				
PT 7	0.374[illegible]	0.8278	0.082460	0.014440	-0.003684	0.009637	-16.7
	149.3	673.2	0.000194	0.000000	-0.002203	0.003545	-4.8
	-10.0	16.0	0.0023				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 8	0.3746	0.8267	0.075920	0.013120	-0.003243	0.008612	-15.8
	149.3	673.4	-0.000112	0.000000	-0.001877	0.003123	-4.2
	-10.0	15.0	0.0023				
PT 9	0.3757	0.8218	0.082800	0.004600	-0.001442	0.003942	-12.2
	149.0	670.4	-0.000234	0.000000	-0.000698	0.002106	-2.9
	-10.0	10.0	0.0022				
PT 10	0.3753	0.8272	0.075340	0.013230	-0.003236	0.008647	-16.0
	149.9	674.8	-0.000165	0.000000	-0.001891	0.003118	-4.2
	-10.0	15.0	0.0022				
RUN 54							
PT 13	0.3836	0.8139	0.077000	0.007930	-0.002894	0.006653	-18.0
	152.9	673.6	-0.001086	0.000000	-0.000408	0.003034	5.3
	-4.6	13.4	0.0022				
RUN 55							
PT 18	0.3766	0.8302	0.071710	0.010130	-0.002929	0.007376	-19.0
	150.2	674.1	-0.001997	0.000000	-0.000812	0.003049	3.7
	-5.0	14.0	0.0023				
PT 19	0.3776	0.8286	0.079940	0.001810	-0.005287	0.003793	-12.0
	150.5	673.6	0.000873	0.000000	-0.000589	0.002477	1.7
	-5.0	11.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 17							
PT 3	0.4004	0.8415	-0.001950	-0.002150	-0.001392	0.001306	3.2
	159.1	671.3	0.000024	0.000000	0.000146	0.002165	-2.8
	0.0	0.0	0.0023				
PT 4	0.4026	0.8393	0.013840	-0.001950	-0.001492	0.001217	1.7
	159.7	670.4	-0.000107	0.000000	0.000125	0.001983	-2.6
	0.0	2.0	0.0023				
PT 5	0.4019	0.8416	0.031480	-0.001680	-0.002201	0.001275	0.2
	160.4	674.3	0.000037	0.000000	0.000187	0.001937	-2.7
	0.0	4.0	0.0022				
PT 6	0.4004	0.8433	0.047380	-0.001690	-0.002650	0.001591	-1.3
	160.4	677.1	-0.000038	0.000000	0.000092	0.002057	-2.6
	0.0	6.0	0.0022				
PT 7	0.3999	0.8436	0.064550	-0.001420	-0.003726	0.002086	-3.2
	160.3	677.6	-0.000041	0.000000	0.000078	0.002264	-2.8
	0.0	8.0	0.0022				
PT 8	0.4011	0.8424	0.080560	-0.000880	-0.004886	0.002942	-5.0
	160.6	676.6	-0.000073	0.000000	0.000062	0.002690	-2.9
	0.0	10.0	0.0022				
PT 9	0.4001	0.8418	0.087750	-0.000650	-0.005301	0.003559	-5.7
	160.2	676.6	-0.000091	0.000000	-0.000046	0.003099	-3.1
	0.0	11.0	0.0022				
PT 10	0.4011	0.8422	0.094960	0.000170	-0.006123	0.004659	-6.7
	160.7	677.1	-0.000148	0.000000	-0.000211	0.003749	-3.5
	0.0	12.0	0.0022				
PT 11	0.4019	0.8399	0.038240	0.001540	-0.001652	0.003040	-7.4
	161.2	678.0	-0.000328	0.000000	-0.000268	0.002286	-2.5
	-5.0	8.0	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.4086	0.8320	0.056350	0.003520	-0.002591	0.004295	-9.2
	164.6	680.8	-0.000493	0.000000	-0.000507	0.002566	-2.9
	-5.0	8.0	0.0021				
PT 13	.4008	0.8415	0.071920	0.005330	-0.003682	0.005460	-10.9
	161.2	679.9	-0.000344	0.000000	-0.000712	0.002839	-3.4
	-5.0	12.0	0.0022				
PT 14	0.4020	0.8411	0.078050	0.006170	-0.004271	0.006141	-11.6
	161.5	678.9	-0.000470	0.000000	-0.000846	0.003094	-3.6
	-5.0	13.0	0.0022				
PT 15	0.4027	0.8396	0.084870	0.007280	-0.004675	0.007223	-12.4
	161.6	678.0	-0.000595	0.000000	-0.001046	0.003624	-4.0
	-5.0	14.0	0.0022				
PT 16	0.4031	0.8402	0.092310	0.007960	-0.005244	0.008402	-13.0
	161.9	678.9	-0.000272	0.000000	-0.001336	0.004403	-4.4
	-5.0	15.0	0.0022				
RUN 19							
PT 3	0.4009	0.8409	0.036630	0.001700	-0.001434	0.003017	-7.1
	158.9	670.0	0.000044	0.000000	-0.000033	0.002208	-2.5
	-5.0	8.0	0.0023				
PT 4	0.4011	0.8420	0.052270	0.003420	-0.002383	0.004059	-8.8
	159.3	671.3	-0.000045	0.000000	-0.000286	0.002432	-3.0
	-5.0	10.0	0.0023				
PT 5	0.4025	0.8384	0.090070	0.007980	-0.004871	0.008250	-12.6
	159.7	670.4	-0.000029	0.000000	-0.001050	0.004285	-4.5
	-5.0	15.0	0.0022				
PT 6	0.4013	0.8413	0.069870	0.009870	-0.002044	0.007868	-13.6
	160.1	674.3	-0.001453	0.000000	-0.000910	0.003453	-3.3
	-5.0	14.5	0.0022				
PT 7	0.4009	0.8432	0.077730	0.001770	-0.004543	0.003967	-6.3
	160.8	678.0	0.001145	0.000000	-0.000457	0.002692	-4.7
	-5.0	11.0	0.0022				

SWEPT/TAPERED TIP

		V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT	8	0.4011 161.1 -5.0	0.8421 678.9 13.0	0.076890 -0.000206 0.0022	0.006320 0.000000	-0.003673 -0.000643	0.006187 0.003103	-5.1 -3.8
PT	9	0.4012 161.0 0.0	0.8410 678.0 13.0	0.097440 -0.000016 0.0022	0.001120 0.000000	-0.006250 -0.000166	0.005610 0.004277	3.9 -3.7
PT	10	0.4008 161.3 0.0	0.8421 680.3 14.0	0.103660 -0.000050 0.0022	0.001710 0.000000	-0.006491 -0.000290	0.007027 0.005337	3.9 -3.7
PT	11	0.4021 161.8 -7.5	0.8407 679.9 12.0	0.055470 -0.000256 0.0022	0.006610 0.000000	-0.002060 -0.000710	0.005668 0.002724	-3.7 -3.7
PT	12	0.4031 162.1 -7.5	0.8400 679.4 13.0	0.063920 -0.000232 0.0022	0.007950 0.000000	-0.002714 -0.001024	0.006532 0.002949	-7.6 -4.1
PT	13	0.4014 161.9 -7.5	0.8417 681.7 14.0	0.071430 -0.000210 0.0022	0.009260 0.000000	-0.003027 -0.001266	0.007375 0.003185	-12.1 -4.9
PT	14	0.4009 162.3 -7.5	0.8427 684.0 15.0	0.078120 -0.000083 0.0022	0.010610 0.000000	-0.003259 -0.001539	0.008458 0.003637	-11.8 -5.3
PT	15	0.4014 162.4 -7.5	0.8425 683.5 16.0	0.086130 0.000248 0.0022	0.012000 0.000000	-0.003927 -0.001902	0.009584 0.004076	-10.2 -5.1
PT	16	0.4005 162.4 -7.5	0.8441 685.4 17.0	0.090260 0.000544 0.0022	0.012520 0.000000	-0.003892 -0.002299	0.009643 0.003868	-10.4 -5.3
PT	17	0.4004 161.7 6.0	0.8399 682.6 0.0	0.028180 0.000650 0.0022	-0.005000 0.000000	-0.002339 0.000265	0.000162 0.002091	5.3 -2.5

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHOJO	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 18	0.4004	0.8428	0.042670	-0.006180	-0.002767	-0.000256	4.3
	162.3	684.9	0.000565	0.000000	0.000231	0.002049	-1.0
	6.0	2.0	0.0022				
PT 19	0.4021	0.8413	0.058000	-0.007320	-0.003367	-0.000426	4.2
	162.6	683.5	0.000477	0.000000	0.000231	0.002204	-2.3
	6.0	4.0	0.0022				
PT 20	0.4012	0.8411	0.075350	-0.008700	-0.004252	-0.000425	3.8
	162.5	684.5	0.000601	0.000000	0.000156	0.002537	-1.9
	6.0	6.0	0.0022				
PT 21	0.4006	0.8425	0.089450	-0.009200	-0.005064	0.000106	3.3
	162.6	685.9	0.000530	0.000000	0.000102	0.003046	-3.4
	6.0	8.0	0.0022				
RUN 21							
PT 11	0.4007	0.8420	0.028080	0.003290	-0.001374	0.003757	-12.2
	160.1	675.3	-0.000332	0.000000	-0.000708	0.002366	-2.6
	-10.0	10.0	0.0022				
PT 12	0.3998	0.8418	0.044480	0.006800	-0.001304	0.005487	-13.9
	160.0	676.2	-0.000302	0.000000	-0.001230	0.002584	-3.0
	-10.0	12.0	0.0022				
PT 13	0.4014	0.8412	0.060970	0.010190	-0.001748	0.007443	-15.5
	160.6	676.2	-0.000339	0.000000	-0.001657	0.003008	-3.4
	-10.0	14.0	0.0022				
PT 14	0.4007	0.8425	0.068650	0.011860	-0.002271	0.008521	-16.4
	160.6	677.6	-0.000304	0.000000	-0.002020	0.003328	-4.0
	-10.0	15.0	0.0022				
RUN 22							
PT 18	0.4048	0.8410	0.061410	0.005200	-0.003269	0.005062	-13.4
	162.0	676.2	0.000802	0.000000	-0.000953	0.002607	-1.4
	-9.0	11.3	0.0022				
PT 19	0.4037	0.8431	0.075590	0.007150	-0.004360	0.006443	-15.0
	163.3	683.5	0.000725	0.000000	-0.001321	0.003029	-1.6
	-9.0	13.2	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 20	0.4015	0.8449	0.064990	0.005840	-0.003325	0.005456	-14.0
	163.2	686.8	0.000650	0.000000	-0.001188	0.002719	-1.3
	-9.0	11.8	0.0022				
PT 21	0.4029	0.8424	0.067960	0.005700	-0.000758	0.005527	-13.5
	163.1	684.0	0.000698	0.000000	-0.000422	0.002801	0.5
	-9.0	12.0	0.0022				
PT 22	0.4032	0.8435	0.065400	0.002470	-0.003283	0.003714	-10.3
	163.5	685.4	0.000728	0.000000	-0.000539	0.002435	-1.0
	-7.0	9.4	0.0022				
PT 23	0.4085	0.8371	0.074090	0.003850	-0.004076	0.004911	-12.1
	164.2	679.4	0.000926	0.000000	-0.000926	0.002855	-1.4
	-7.0	11.6	0.0021				
PT 24	0.4036	0.8437	0.070910	0.003500	-0.001081	0.004671	-11.4
	164.1	687.2	0.000731	0.000000	-0.000082	0.002794	0.7
	-7.0	11.2	0.0021				
RUN 53							
PT 3	0.3883	0.8255	0.072820	0.007510	-0.003555	0.006492	-18.2
	155.0	674.6	-0.001122	0.000000	-0.000221	0.003065	4.7
	-4.6	13.3	0.0022				
PT 4	0.3878	0.8256	0.074120	0.007480	-0.003687	0.006548	-18.2
	155.0	675.5	-0.001100	0.000000	-0.000185	0.003117	4.7
	-4.6	13.4	0.0022				
PT 5	0.3904	0.8228	0.060580	0.008680	-0.002567	0.006738	-20.2
	155.5	673.2	-0.002174	0.000000	-0.000361	0.002998	5.6
	-4.6	13.4	0.0022				
PT 6	0.3894	0.8231	0.068270	0.005360	-0.005099	0.006202	-16.5
	155.4	674.6	0.000037	0.000000	-0.000144	0.003365	3.9
	-4.6	13.4	0.0022				
PT 7	0.3924	0.8206	0.076380	0.007030	-0.000826	0.006509	-17.6
	156.1	672.3	-0.001016	0.000000	-0.000586	0.003193	6.8
	-4.6	13.4	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 8	0.3916	0.8222	0.074020	0.007760	-0.005961	0.006675	-19.0
	156.3	674.6	-0.001056	0.000000	-0.000941	0.003114	3.1
	-4.6	13.4	0.0022				
PT 9	0.3918	0.8215	0.075980	0.007330	-0.003743	0.006582	-18.1
	156.4	674.6	-0.000972	0.000000	-0.000195	0.003158	4.6
	-4.6	13.4	0.0022				
RUN 54							
PT 3	0.3866	0.8283	0.075310	0.007700	-0.002904	0.006637	-18.1
	154.7	676.4	-0.001132	0.000000	-0.000443	0.003113	5.6
	-4.6	13.4	0.0022				
PT 4	0.3864	0.8289	0.089170	0.007820	-0.003509	0.007472	-18.2
	155.1	678.2	-0.000652	0.000000	-0.000346	0.003679	5.1
	-4.6	14.4	0.0022				
PT 5	0.3883	0.8259	0.061450	0.007100	-0.002404	0.005932	-18.2
	155.2	675.5	-0.001436	0.000000	-0.000452	0.002811	5.8
	-4.6	12.4	0.0022				
PT 6	0.3886	0.8261	0.066160	0.008660	-0.002373	0.006702	-20.2
	155.3	675.5	-0.001218	0.000000	-0.000540	0.002916	5.7
	-6.6	13.4	0.0022				
PT 7	0.3908	0.8266	0.087540	0.005260	-0.003758	0.006202	-16.0
	156.2	675.5	-0.000679	0.000000	-0.000046	0.003412	5.1
	-2.6	13.4	0.0022				
PT 8	0.3911	0.8232	0.074710	0.007450	-0.002983	0.006562	-18.2
	155.8	673.2	-0.001125	0.000000	-0.000347	0.003115	5.5
	-4.6	13.4	0.0022				
PT 9	0.3897	0.8250	0.075220	0.007430	-0.000525	0.006475	-17.9
	155.9	675.9	-0.000901	0.000000	0.000101	0.003036	5.4
	-4.6	13.4	0.0022				
PT 10	0.3913	0.8227	0.073890	0.007690	-0.005422	0.006655	-18.5
	156.2	674.6	-0.000635	0.000000	-0.000999	0.003124	5.5
	-4.6	13.4	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3932	0.8201	0.075840	0.007690	-0.002968	0.006631	-18.1
	156.5	672.7	-0.001041	0.000000	-0.000462	0.003061	5.2
	-4.6	13.4	0.0022				
PT 12	0.4011	0.8277	0.073320	0.007240	-0.003092	0.006554	-18.2
	160.3	675.5	-0.001056	0.000000	-0.000498	0.003149	5.2
	-4.6	13.4	0.0022				
RUN 63							
PT 7	0.4007	0.8421	0.054600	0.006480	-0.002959	0.005574	-20.3
	159.4	672.3	-0.000289	0.000000	-0.000878	0.002701	9.5
	-7.6	12.0	0.0023				
PT 8	0.4001	0.8431	0.079320	0.008580	-0.004174	0.007465	-21.5
	159.7	674.6	-0.000533	0.000000	-0.001162	0.003443	8.7
	-6.3	14.3	0.0022				
PT 10	0.4028	0.8406	0.049540	0.003220	-0.002169	0.004043	-17.0
	160.4	673.2	-0.000419	0.000000	-0.000420	0.002517	9.9
	-5.0	10.0	0.0022				
PT 11	0.3991	0.8448	0.069120	0.005280	-0.003452	0.005443	-18.7
	160.5	679.6	-0.000253	0.000000	-0.000665	0.002889	9.3
	-5.0	12.0	0.0022				
PT 12	0.3998	0.8447	0.084280	0.007240	-0.004680	0.007136	-20.4
	160.7	679.2	-0.000441	0.000000	-0.000955	0.003576	8.3
	-5.0	14.0	0.0022				
PT 13	0.4005	0.8445	0.073390	0.010390	-0.002499	0.008351	-19.8
	160.8	678.7	-0.001975	0.000000	-0.001019	0.003687	9.7
	-5.0	15.0	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
18 2E

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 55							
PT 9	0.2499	0.8133	0.056730	-0.000780	-0.001810	0.001638	-4.2
	107.6	727.8	-0.000347	0.000000	-0.000127	0.001352	2.5
	0.0	6.0	0.0023				
PT 12	0.2492	0.8133	0.058470	0.004440	-0.001940	0.003143	-10.2
	107.2	726.9	-0.000557	0.000000	-0.000501	0.001525	2.4
	-5.0	8.0	0.0023				
PT 13	0.2495	0.8141	0.077550	0.006210	-0.003116	0.004219	-11.5
	107.4	727.3	-0.000673	0.000000	-0.000771	0.001769	1.9
	-5.0	10.0	0.0023				
PT 14	0.2494	0.8161	0.097190	0.007780	-0.004573	0.005558	-12.6
	107.6	729.2	-0.000718	0.000000	-0.000847	0.002202	1.4
	-5.0	12.0	0.0023				
PT 15	0.2506	0.8119	0.057080	-0.000760	-0.001948	0.001660	-4.2
	107.6	725.5	-0.000185	0.000000	-0.000087	0.001366	2.4
	0.0	6.0	0.0023				
PT 16	0.2500	0.8141	0.077630	-0.000900	-0.002852	0.002194	-5.2
	107.7	727.8	-0.000140	0.000000	-0.000142	0.001518	2.1
	0.0	8.0	0.0023				
PT 17	0.2501	0.8137	0.098530	-0.001030	-0.004528	0.003033	-6.4
	107.6	727.3	-0.000294	0.000000	-0.000238	0.001841	1.6
	0.0	10.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2F

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 21							
PT 16	0.3758	0.8941	-0.001370	-0.002270	-0.000918	0.001425	3.4
	163.2	734.0	0.000033	0.000000	0.000083	0.002278	-2.9
	0.0	0.0	0.0022				
PT 17	0.3756	0.8953	0.014780	-0.002060	-0.001011	0.001339	1.9
	163.5	735.8	-0.000080	0.000000	0.000092	0.002092	-2.8
	0.0	2.0	0.0022				
PT 18	0.3760	0.8958	0.031310	-0.001850	-0.001251	0.001471	0.5
	163.9	736.8	-0.000093	0.000000	0.000038	0.002068	-2.9
	0.0	4.0	0.0022				
PT 19	0.3758	0.8954	0.048850	-0.001600	-0.001905	0.001752	-1.0
	163.9	737.2	-0.000148	0.000000	-0.000008	0.002116	-2.9
	0.0	6.0	0.0022				
PT 20	0.3764	0.8950	0.066820	-0.001360	-0.003004	0.002267	-2.4
	164.2	737.2	-0.000112	0.000000	-0.000065	0.002334	-3.1
	0.0	8.0	0.0022				
PT 21	0.3766	0.8940	0.083560	-0.000810	-0.004075	0.003322	-4.0
	164.1	736.3	-0.000144	0.000000	-0.000165	0.002932	-3.3
	0.0	8.0	0.0022				
PT 22	0.3748	0.8972	0.091680	-0.000520	-0.004830	0.004002	-4.7
	164.1	740.0	-0.000054	0.000000	-0.000128	0.003358	-3.5
	0.0	11.0	0.0022				
PT 23	0.3766	0.8946	0.094730	0.000010	-0.005411	0.004593	-5.4
	164.2	736.8	-0.000103	0.000000	-0.000167	0.003698	-3.7
	0.0	11.5	0.0022				
PT 24	0.3769	0.8939	0.040230	0.001750	-0.001016	0.003186	-6.6
	164.3	736.8	-0.000358	0.000000	-0.000465	0.002367	-2.9
	-5.0	8.0	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.3753 164.0 -5.0	0.8951 738.6 10.0	0.060020 -0.000223 0.0022	0.003680 0.000000	-0.001974 -0.000634	0.004352 0.002614	-8.0 -3.1
PT 26	0.3751 164.3 -5.0	0.8963 740.5 12.0	0.076630 -0.000223 0.0022	0.005470 0.000000	-0.003074 -0.000911	0.005788 0.003151	-9.6 -3.5
PT 27	0.3762 164.5 -5.0	0.8954 739.1 13.0	0.084630 -0.000179 0.0022	0.006370 0.000000	-0.003478 -0.001086	0.006734 0.003625	-10.2 -3.9
PT 28	0.3764 164.5 -5.0	0.8950 738.6 14.0	0.091360 0.000067 0.0022	0.007340 0.000000	-0.003858 -0.001304	0.007891 0.004300	-11.1 -4.4
PT 29	0.3765 164.5 -5.0	0.8951 738.6 14.5	0.093480 0.000214 0.0022	0.007740 0.000000	-0.004184 -0.001296	0.008442 0.004661	-11.6 -4.5
PT 30	0.3778 164.7 -5.0	0.8920 736.8 11.0	0.050330 -0.001516 0.0022	0.005850 0.000000	-0.000707 -0.000748	0.005215 0.002755	-10.7 -2.0
PT 31	0.3757 165.2 -5.0	0.8976 743.2 12.0	0.052290 -0.001946 0.0022	0.007380 0.000000	-0.000382 -0.000897	0.006023 0.002979	-12.2 -1.8
PT 32	0.3753 165.1 -10.0	0.8970 743.4 12.0	0.050900 -0.000189 0.0022	0.007460 0.000000	-0.000771 -0.001422	0.005956 0.002899	-13.4 -3.3
PT 33	0.3769 165.5 -10.0	0.8965 742.3 13.0	0.059770 -0.000061 0.0022	0.009220 0.000000	-0.001097 -0.001848	0.007000 0.003172	-14.2 -3.6
PT 34	0.3757 165.1 -10.0	0.8962 742.8 14.0	0.067750 0.000115 0.0022	0.010700 0.000000	-0.001074 -0.002078	0.008007 0.003530	-15.0 -3.9

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 35	0.3748 165.3 -10.0	0.8989 745.3 15.0	0.076670 0.000164 0.0022	0.012260 0.000000	-0.001374 -0.002412	0.009017 0.003834	-15.6 -4.4
PT 36	0.3759 165.1 -10.0	0.8958 742.3 15.5	0.081270 0.000085 0.0022	0.012980 0.000000	-0.001209 -0.002590	0.009188 0.003653	-15.9 -4.4
PT 37	0.3755 164.8 -10.0	0.8950 741.8 10.0	0.033290 -0.000252 0.0022	0.003950 0.000000	-0.000447 -0.000994	0.004066 0.002472	-11.7 -2.9
RUN 55 PT 22	0.3742 161.7 -5.0	0.8999 730.1 10.0	0.054490 -0.000562 0.0023	0.003640 0.000000	-0.002906 -0.000366	0.004213 0.002554	-13.5 3.7
PT 23	0.3759 162.1 -5.0	0.8976 728.7 12.0	0.074590 -0.000589 0.0023	0.005780 0.000000	-0.004199 -0.000616	0.005772 0.003048	-15.2 3.0
PT 25	0.3744 161.9 -5.0	0.8970 731.0 13.0	0.081520 -0.000681 0.0022	0.006800 0.000000	-0.004323 -0.000856	0.006595 0.003385	-16.0 2.8
PT 26	0.3754 162.7 -5.0	0.8985 732.4 10.0	0.073440 0.000854 0.0022	0.001010 0.000000	-0.004177 -0.000463	0.003498 0.002581	-11.1 2.2
PT 27	0.3749 163.1 -5.0	0.8998 735.2 14.0	0.074140 -0.001903 0.0022	0.010320 0.000000	-0.002423 -0.001072	0.007914 0.003498	-19.1 3.8
RUN 63 PT 14	0.3675 160.4 -5.0	0.8959 737.5 8.0	0.037530 -0.000490 0.0022	0.001900 0.000000	-0.001366 -0.000366	0.003101 0.002259	-14.7 9.6
PT 15	0.3701 160.8 -5.0	0.8937 734.2 10.0	0.057930 -0.000270 0.0022	0.003820 0.000000	-0.002446 -0.000478	0.004283 0.002531	-16.3 9.4

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 16	0.3697	0.8935	0.066620	0.004970	-0.002897	0.005006	-17.3
	160.9	735.6	-0.000266	0.000000	-0.000576	0.002721	9.2
	-5.0	11.0	0.0022				
PT 17	0.3650	0.9011	0.074940	0.005850	-0.003566	0.005710	-18.1
	160.8	744.4	-0.000459	0.000000	-0.000731	0.002999	8.6
	-5.0	12.0	0.0022				
PT 18	0.3676	0.8966	0.079870	0.006490	-0.003958	0.006235	-18.4
	160.8	739.3	-0.000492	0.000000	-0.000794	0.003199	8.8
	-5.0	12.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2H

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPU/S	ALFC A1
RUN 55							
PT 28	0.3761	0.9374	0.037930	0.001270	-0.001459	0.003359	-11.1
	170.2	764.6	-0.000426	0.000000	-0.000236	0.002737	4.0
	-5.0	8.0	0.0022				
PT 29	0.3753	0.9385	0.055380	0.002920	-0.002348	0.004472	-12.4
	170.4	767.4	-0.000454	0.000000	-0.000418	0.003069	3.8
	-5.0	10.0	0.0022				
PT 30	0.3767	0.9366	0.065180	0.003880	-0.003308	0.005172	-13.2
	170.5	765.1	-0.000562	0.000000	-0.000565	0.003289	3.1
	-5.0	11.0	0.0022				
PT 31	0.3767	0.9369	0.073110	0.004820	-0.003523	0.005954	-14.0
	170.7	766.0	-0.000540	0.000000	-0.000672	0.003606	3.0
	-5.0	12.0	0.0022				
PT 34	0.3740	0.9400	0.055870	0.005860	-0.003027	0.005795	-15.8
	169.6	766.5	-0.000530	0.000000	-0.000834	0.003292	3.2
	-7.5	11.5	0.0022				
PT 35	0.3752	0.9408	0.068610	0.006870	-0.001409	0.007092	-16.6
	170.5	767.9	-0.000545	0.000000	-0.003106	0.004046	2.8
	-7.5	13.0	0.0022				
PT 36	0.3767	0.9378	0.050170	0.000340	-0.002306	0.003089	-9.2
	170.7	766.0	-0.000397	0.000000	-0.000154	0.002710	3.7
	-2.5	8.0	0.0022				
PT 37	0.3749	0.9411	0.070430	0.001160	-0.003548	0.004138	-10.6
	170.7	769.7	-0.000364	0.000000	-0.000150	0.003208	3.4
	-2.5	10.0	0.0022				
PT 38	0.3737	0.9422	0.077640	0.001660	-0.004224	0.004771	-11.3
	170.7	772.0	-0.000533	0.000000	-0.000260	0.003548	3.0
	-2.5	11.0	0.0022				

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 39	0.3762	0.9393	0.058970	0.000610	-0.002951	0.303466	-9.8
	171.3	769.7	-0.000512	0.000000	-0.000186	0.302891	3.7
	-2.5	9.0	0.0022				
PT 40	0.3732	0.9434	0.077590	0.001640	-0.004001	0.304703	-11.3
	171.1	774.8	-0.000516	0.000000	-0.000173	0.303486	3.2
	-2.5	11.0	0.0022				
PT 41	0.3751	0.9399	0.081800	0.002090	-0.004301	0.305139	-11.9
	171.2	771.6	-0.000544	0.000000	-0.000242	0.303689	3.1
	-2.5	11.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
18 2G

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 55							
PT 3	0.2503	0.8746	0.058280	0.004250	-0.002068	0.003192	-10.3
	115.4	778.9	-0.000517	0.000000	-0.000492	0.001622	2.4
	-5.0	8.0	0.0023				
PT 4	0.2496	0.8757	0.077010	0.006120	-0.003172	0.004336	-11.6
	115.2	780.3	-0.000660	0.000000	-0.000707	0.001921	2.1
	-5.0	10.0	0.0023				
PT 5	0.2494	0.8757	0.098580	0.007700	-0.004446	0.006098	-12.7
	115.3	781.2	-0.000683	0.000000	-0.000972	0.002721	1.6
	-5.0	12.0	0.0023				
PT 6	0.2498	0.8762	0.057370	-0.000760	-0.002323	0.001740	-4.4
	115.6	782.4	-0.000271	0.000000	-0.000197	0.001438	2.1
	0.0	6.0	0.0023				
PT 7	0.2497	0.8766	0.079470	-0.000960	-0.003336	0.002372	-5.4
	115.7	782.8	-0.000217	0.000000	-0.000139	0.001667	2.0
	0.0	8.0	0.0023				
PT 8	0.2499	0.8759	0.100040	-0.000900	-0.004898	0.003452	-6.8
	115.8	782.8	-0.000280	0.000000	-0.000229	0.002181	1.7
	0.0	10.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2I

SWEPT/TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 56							
PT 3	0.3772	0.9653	0.053020	0.001000	-0.002050	0.004848	-12.2
	174.7	782.8	-0.000960	0.000000	-0.000483	0.004192	4.0
	-5.0	10.0	0.0022				
PT 4	0.3768	0.9658	0.070670	0.002600	-0.003131	0.006288	-14.0
	175.4	786.5	-0.001157	0.000000	-0.000627	0.004811	3.9
	-5.0	12.0	0.0022				
PT 5	0.3738	0.9690	0.078260	0.003510	-0.003737	0.007130	-14.8
	175.1	791.6	-0.001343	0.000000	-0.000839	0.005205	3.5
	-5.0	13.0	0.0022				
PT 6	0.3745	0.9689	0.083090	0.003720	-0.003571	0.007557	-15.0
	175.6	792.5	-0.001319	0.000000	-0.000851	0.005474	3.4
	-5.0	13.5	0.0022				
PT 7	0.3740	0.9699	0.061720	0.001700	-0.002664	0.005468	-13.1
	175.8	794.4	-0.001073	0.000000	-0.000584	0.004449	4.0
	-5.0	11.0	0.0022				
PT 8	0.3758	0.9659	0.049430	-0.000890	-0.002183	0.003426	-9.4
	176.0	791.6	-0.000613	0.000000	0.000000	0.003518	4.7
	-2.5	8.0	0.0022				
PT 9	0.3759	0.9668	0.065830	-0.000040	-0.003233	0.004523	-10.7
	176.4	793.0	-0.000771	0.000000	-0.000169	0.004106	4.4
	-2.5	10.0	0.0022				
PT 10	0.3751	0.9663	0.083220	0.000610	-0.004157	0.005730	-12.1
	176.5	795.3	-0.000873	0.000000	-0.000234	0.004809	3.9
	-2.5	12.0	0.0022				
PT 11	0.3737	0.9683	0.087900	0.001030	-0.004364	0.006252	-12.4
	176.6	798.5	-0.000999	0.000000	-0.000297	0.005093	3.6
	-2.5	12.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 48							
PT 4	0.2020	0.7180	0.064210	0.004360	-0.002175	0.002249	-9.9
	81.2	679.6	0.000074	0.000000	-0.000453	0.000604	2.4
	-5.0	8.0	0.0023				
PT 5	0.2001	0.7193	0.086480	0.005900	-0.003752	0.004324	-10.0
	80.7	681.9	-0.000067	0.000000	-0.000673	0.001748	2.6
	-5.0	10.0	0.0023				
PT 6	0.2005	0.7181	0.106450	0.007470	-0.005197	0.005976	-9.4
	80.7	680.6	-0.000236	0.000000	-0.000879	0.002286	2.6
	-5.0	12.0	0.0023				
PT 7	0.1995	0.7199	0.117910	0.008140	-0.006079	0.006936	-9.1
	80.6	682.9	-0.000230	0.000000	-0.000998	0.002707	2.4
	-5.0	13.0	0.0023				
PT 8	0.1987	0.7189	0.120680	0.008990	-0.006224	0.007394	-11.6
	80.2	682.4	-0.000317	0.000000	-0.001045	0.002868	2.0
	-5.0	13.5	0.0023				
PT 9	0.2003	0.7199	0.049250	0.001300	-0.001488	0.002030	-7.3
	80.9	682.4	0.000151	0.000000	-0.000152	0.001317	0.6
	-2.5	6.0	0.0023				
PT 10	0.2004	0.7175	0.072490	0.001930	-0.002439	0.002817	-7.8
	80.6	680.1	0.000079	0.000000	-0.000270	0.001450	1.7
	-2.5	8.0	0.0023				
PT 11	0.1998	0.7186	0.095490	0.002560	-0.003732	0.003997	-8.0
	80.6	681.5	0.000111	0.000000	-0.000431	0.001780	2.5
	-2.5	10.0	0.0023				
PT 12	0.1994	0.7213	0.106290	0.002630	-0.004875	0.004680	-8.3
	80.7	684.2	0.000088	0.000000	-0.000465	0.002038	1.8
	-2.5	11.0	0.0023				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 13	0.2000 80.9 -2.5	0.7212 683.8 12.0	0.116040 -0.000041 0.0023	0.002980 0.000000	-0.005589 -0.000518	0.005538 0.002427	-8.9 1.5
PT 14	0.1999 80.8 -2.5	0.7206 683.3 13.0	0.125130 -0.000020 0.0023	0.003240 0.000000	-0.006542 -0.000638	0.006566 0.002991	-9.8 1.1
PT 17	0.1999 80.6 -5.0	0.7182 681.0 6.0	0.043220 -0.000115 0.0023	0.002910 0.000000	-0.001242 -0.000260	0.002251 0.001319	-11.2 2.8
PT 18	0.2001 80.7 0.0	0.7193 681.9 0.0	-0.007210 0.000221 0.0023	-0.001000 0.000000	-0.000530 0.000067	0.001261 0.001452	-1.6 3.1
PT 19	0.2001 80.8 0.0	0.7198 682.4 2.0	0.016180 0.000349 0.0023	-0.000780 0.000000	-0.000759 0.000043	0.001150 0.001258	-5.5 0.6
PT 20	0.1996 80.8 0.0	0.7209 683.8 4.0	0.039450 0.000449 0.0023	-0.000920 0.000000	-0.001123 0.000012	0.001311 0.001202	-6.4 2.3
PT 21	0.2005 80.8 0.0	0.7191 681.5 6.0	0.061100 0.000462 0.0023	-0.001140 0.000000	-0.001993 -0.000098	0.001744 0.001277	-6.2 2.0
PT 22	0.2002 80.7 0.0	0.7184 681.0 8.0	0.084390 0.000302 0.0023	-0.001340 0.000000	-0.003088 -0.000124	0.002548 0.001486	-4.7 1.2
PT 23	0.2001 80.9 0.0	0.7210 682.9 10.0	0.105940 0.000335 0.0023	-0.002040 0.000000	-0.004791 -0.000280	0.003508 0.001819	-5.2 1.3
PT 24	0.2002 80.6 0.0	0.7185 680.6 11.0	0.117320 0.000255 0.0023	-0.002580 0.000000	-0.005650 -0.000328	0.004127 0.002073	-5.6 1.2

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO:JO	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.2005 80.8 0.0	0.7192 681.0 12.0	0.127110 0.000227 0.0023	-0.002740 0.000000	-0.006110 -0.000299	0.005034 0.002571	-6.2 1.2

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

SWEPT TIP	V/OR VKTS ALFS,U	MAT CMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 49							
PT 3	0.3007	0.7792	0.029980	0.001400	-0.000999	0.002145	-8.7
	119.9	674.1	-0.000423	0.000000	-0.000533	0.001611	2.6
	-5.0	6.0	0.0023				
PT 4	0.3007	0.7798	0.054390	0.003590	-0.001817	0.003161	-10.2
	120.0	674.6	-0.000416	0.000000	-0.000688	0.001715	2.4
	-5.0	8.0	0.0023				
PT 5	0.2999	0.7814	0.074590	0.005530	-0.002991	0.004353	-11.7
	120.0	676.4	-0.000603	0.000000	-0.000819	0.002001	2.1
	-5.0	10.0	0.0023				
PT 6	0.2985	0.7832	0.094580	0.007500	-0.004651	0.005864	-13.3
	119.9	678.7	-0.000627	0.000000	-0.001079	0.002505	1.5
	-5.0	12.0	0.0023				
PT 7	0.2997	0.7800	0.104290	0.008100	-0.005587	0.006808	-13.8
	119.9	675.9	-0.000622	0.000000	-0.001132	0.003024	1.2
	-5.0	13.0	0.0023				
PT 8	0.3008	0.7789	0.109460	0.009240	-0.006197	0.007901	-14.8
	120.1	675.0	-0.000770	0.000000	-0.001421	0.003633	0.8
	-5.0	14.0	0.0023				
PT 9	0.2998	0.7804	0.039080	0.005880	-0.000834	0.003691	-15.2
	120.1	676.9	-0.000694	0.000000	-0.001091	0.001738	2.7
	-10.0	9.0	0.0023				
PT 10	0.2991	0.7821	0.051720	0.008220	-0.001238	0.004612	-16.0
	120.1	678.7	-0.000710	0.000000	-0.001282	0.001819	2.7
	-10.0	10.0	0.0023				
PT 11	0.2995	0.7803	0.072070	0.012020	-0.002570	0.006431	-17.4
	120.0	676.9	-0.000739	0.000000	-0.001724	0.002183	1.9
	-10.0	12.0	0.0023				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3001	0.7806	0.090240	0.015880	-0.003656	0.008498	-18.8
	120.2	676.9	-0.000611	0.000000	-0.002195	0.002718	1.2
	-10.0	14.0	0.0023				
PT 13	0.3012	0.7791	0.080680	0.013830	-0.003152	0.007382	-18.1
	120.3	675.0	-0.000863	0.000000	-0.001933	0.002409	1.6
	-10.0	13.0	0.0023				
PT 14	0.3012	0.7782	-0.007180	-0.001760	-0.000666	0.001353	-0.5
	120.4	675.5	-0.000288	0.000000	-0.000297	0.001876	3.2
	0.0	0.0	0.0023				
PT 15	0.3005	0.7788	0.014290	-0.001460	-0.000807	0.001156	-2.0
	120.3	676.4	-0.000143	0.000000	-0.000150	0.001569	2.9
	0.0	2.0	0.0023				
PT 16	0.3015	0.7768	0.035000	-0.001390	-0.001174	0.001243	-2.8
	120.3	674.1	0.000016	0.000000	-0.000159	0.001509	2.7
	0.0	4.0	0.0023				
PT 17	0.3013	0.7782	0.055140	-0.001150	-0.001888	0.001565	-4.3
	120.4	675.5	-0.000129	0.000000	-0.000303	0.001533	2.4
	0.0	6.0	0.0023				
PT 18	0.3017	0.7773	0.078500	-0.001200	-0.002983	0.002144	-5.6
	120.5	675.0	-0.000034	0.000000	-0.000286	0.001742	2.2
	0.0	8.0	0.0023				
PT 19	0.3019	0.7763	0.097400	-0.000820	-0.004766	0.003067	-7.2
	120.4	674.1	-0.000032	0.000000	-0.000474	0.002139	1.7
	0.0	10.0	0.0023				
PT 20	0.2993	0.7817	0.107710	-0.001010	-0.005452	0.003589	-7.8
	120.4	680.1	-0.000059	0.000000	-0.000477	0.002442	1.6
	0.0	11.0	0.0023				
PT 21	0.3009	0.7777	0.115890	-0.000100	-0.006493	0.004656	-9.1
	120.4	676.4	-0.000228	0.000000	-0.000583	0.003017	1.4
	0.0	12.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 49							
PT 24	0.3728	0.8321	0.043450	0.001930	-0.001949	0.003137	-10.9
	150.7	683.3	-0.000249	0.000000	-0.000497	0.002230	3.2
	-5.0	8.0	0.0022				
PT 25	0.3746	0.8293	0.060520	0.003940	-0.002745	0.004252	-12.8
	150.7	680.1	-0.000326	0.000000	-0.000629	0.002410	3.2
	-5.0	10.0	0.0022				
PT 26	0.3741	0.8293	0.080850	0.006070	-0.004489	0.005900	-14.6
	150.7	681.0	-0.000462	0.000000	-0.000922	0.002976	2.4
	-5.0	12.0	0.0022				
PT 27	0.3763	0.8267	0.089480	0.007040	-0.004360	0.006859	-15.4
	150.9	677.8	-0.000614	0.000000	-0.001108	0.003416	2.3
	-5.0	13.0	0.0022				
PT 28	0.3766	0.8256	0.096470	0.007970	-0.005212	0.008063	-16.4
	150.9	677.3	-0.000525	0.000000	-0.001320	0.004138	1.8
	-5.0	14.0	0.0022				
PT 29	0.3746	0.8275	0.042930	0.006350	-0.001385	0.005019	-17.7
	150.8	680.6	-0.000624	0.000000	-0.001255	0.002455	3.2
	-10.0	11.0	0.0022				
PT 30	0.3762	0.8273	0.052490	0.008160	-0.001852	0.005945	-18.4
	151.3	679.6	-0.000575	0.000000	-0.001412	0.002602	3.0
	-10.0	12.0	0.0022				
PT 31	0.3761	0.8260	0.060480	0.009720	-0.002331	0.006782	-19.2
	149.9	673.6	-0.000724	0.000000	-0.001645	0.002765	2.7
	-10.0	13.0	0.0022				
PT 32	0.3759	0.8261	0.071270	0.011970	-0.002851	0.008046	-20.2
	151.3	680.1	-0.000578	0.000000	-0.002013	0.003044	2.2
	-10.0	14.0	0.0022				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 33	0.3760	0.8255	-0.006790	-0.002540	-0.001230	0.001508	-0.2
	151.3	680.1	-0.000189	0.000000	-0.000137	0.002459	3.9
	0.0	0.0	0.0022				
PT 34	0.3775	0.8236	0.012290	-0.002360	-0.001308	0.001252	-2.0
	151.4	677.8	-0.000210	0.000000	-0.000090	0.002126	3.7
	0.0	2.0	0.0022				
PT 35	0.3772	0.8251	0.033220	-0.002220	-0.001622	0.001231	-3.4
	151.6	679.2	-0.000026	0.000000	-0.000108	0.001958	3.5
	0.0	4.0	0.0022				
PT 36	0.3772	0.8251	0.050160	-0.001840	-0.002314	0.001555	-5.2
	151.6	679.2	-0.000112	0.000000	-0.000183	0.002002	3.5
	0.0	6.0	0.0022				
PT 37	0.3743	0.8261	0.069390	-0.001520	-0.003067	0.002118	-6.9
	150.9	681.5	-0.000127	0.000000	-0.000218	0.002205	3.2
	0.0	8.0	0.0022				
PT 38	0.3770	0.8251	0.087130	-0.000900	-0.004436	0.003136	-8.8
	151.8	680.6	-0.000092	0.000000	-0.000303	0.002721	3.0
	0.0	10.0	0.0022				
PT 39	0.3779	0.8234	0.095040	-0.000440	-0.005182	0.003903	-9.7
	151.8	678.7	-0.000219	0.000000	-0.000333	0.003174	3.0
	0.0	11.0	0.0022				
PT 40	0.3766	0.8260	0.102840	0.000090	-0.006484	0.005020	-10.6
	151.9	681.5	-0.000239	0.000000	-0.000506	0.003935	2.2
	0.0	12.0	0.0022				
RUN 51							
PT 40	0.3820	0.8174	0.073080	0.007710	-0.003236	0.006529	-16.1
	152.3	673.6	-0.001181	0.000000	-0.000745	0.003061	4.2
	-4.6	12.7	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 51							
PT 25	0.3871	0.8284	0.073540	0.007470	-0.003305	0.006524	-16.2
	154.6	675.0	-0.001170	0.000000	-0.000559	0.003110	3.8
	-4.6	12.7	0.0022				
PT 26	0.3869	0.8273	0.053470	0.008150	-0.001618	0.006434	-18.5
	154.6	675.5	-0.002692	0.000000	-0.000459	0.003006	5.5
	-4.6	12.7	0.0022				
PT 27	0.3872	0.8250	0.087010	0.005420	-0.003881	0.006096	-14.3
	154.4	674.1	-0.000160	0.000000	-0.000342	0.003265	3.5
	-4.6	12.7	0.0022				
PT 28	0.3883	0.8251	0.073260	0.007370	-0.000202	0.006521	-15.6
	154.8	673.6	-0.001258	0.000000	0.000310	0.003141	6.3
	-4.6	12.7	0.0022				
PT 29	0.3876	0.8262	0.072980	0.007600	-0.005755	0.006550	-16.7
	154.9	675.5	-0.001079	0.000000	-0.001366	0.003090	2.0
	-4.6	12.7	0.0022				
PT 30	0.3888	0.8240	0.073580	0.007460	-0.002918	0.006521	-16.1
	154.9	673.2	-0.001189	0.000000	-0.000567	0.003101	4.1
	-4.6	12.7	0.0022				
PT 31	0.3893	0.8250	0.058770	0.008440	-0.002240	0.006548	-18.2
	155.2	673.6	-0.001662	0.000000	-0.000817	0.002931	4.4
	-6.6	12.7	0.0022				
PT 32	0.3886	0.8249	0.087890	0.005140	-0.003903	0.006083	-14.1
	155.1	674.6	-0.000780	0.000000	-0.000256	0.003342	3.8
	-2.6	12.7	0.0022				
PT 33	0.3902	0.8242	0.072950	0.007370	-0.002973	0.006503	-16.1
	155.4	673.2	-0.001254	0.000000	-0.000531	0.003119	4.1
	-4.6	12.7	0.0022				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 34	0.3892	0.8253	0.088200	0.007660	-0.003393	0.007352	-16.2
	155.3	674.6	-0.000705	0.000000	-0.000538	0.003622	3.8
	-4.6	13.7	0.0022				
PT 35	0.3894	0.8237	0.054830	0.006340	-0.002004	0.005555	-16.1
	155.1	673.2	-0.001727	0.000000	-0.000479	0.002798	4.8
	-4.6	11.7	0.0022				
PT 36	0.3896	0.8249	0.073040	0.007320	-0.000483	0.006401	-15.9
	155.4	674.1	-0.000944	0.000000	0.000011	0.003037	4.1
	-4.6	12.7	0.0022				
PT 37	0.3882	0.8265	0.070610	0.007580	-0.005833	0.006521	-16.5
	155.6	677.3	-0.000601	0.000000	-0.001134	0.003097	4.5
	-4.6	12.7	0.0022				
PT 38	0.3888	0.8264	0.071110	0.007480	-0.003334	0.006452	-16.4
	155.7	676.9	-0.001223	0.000000	-0.000835	0.003059	4.1
	-4.6	12.7	0.0022				
PT 39	0.3998	0.8291	0.068990	0.007180	-0.003467	0.006474	-16.4
	159.4	673.6	-0.001298	0.000000	-0.000786	0.003157	4.2
	-4.6	12.7	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2F

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 49							
PT 43	0.3754	0.8986	0.041760	0.001370	-0.001495	0.003172	-10.6
	164.2	739.3	-0.000349	0.000000	-0.000476	0.002482	4.1
	-5.0	8.0	0.0022				
PT 44	0.3735	0.8984	0.062560	0.003440	-0.002395	0.004534	-12.5
	163.6	740.2	-0.000565	0.000000	-0.000709	0.002856	3.8
	-5.0	10.0	0.0022				
PT 45	0.3756	0.8964	0.070360	0.004570	-0.002858	0.005238	-13.4
	164.2	738.8	-0.000539	0.000000	-0.000901	0.003031	3.3
	-5.0	11.0	0.0022				
RUN 51							
PT 3	0.3748	0.8975	0.050240	0.002200	-0.001643	0.003682	-11.3
	162.6	733.3	-0.000270	0.000000	-0.000323	0.002606	3.8
	-5.0	9.0	0.0022				
PT 4	0.3756	0.8952	0.060310	0.003180	-0.002483	0.004344	-12.2
	162.8	732.4	-0.000238	0.000000	-0.000487	0.002790	3.3
	-5.0	10.0	0.0022				
PT 5	0.3750	0.8960	0.069170	0.004390	-0.002907	0.005186	-13.2
	162.7	733.3	-0.000410	0.000000	-0.000720	0.003064	3.1
	-5.0	11.0	0.0022				
PT 6	0.3776	0.8920	0.077800	0.005260	-0.003412	0.005936	-14.1
	163.1	730.1	-0.000420	0.000000	-0.000802	0.003349	2.9
	-5.0	12.0	0.0022				
PT 7	0.3738	0.8971	0.088330	0.006310	-0.004049	0.007153	-14.9
	163.0	737.0	-0.000349	0.000000	-0.000903	0.004015	2.4
	-5.0	13.0	0.0022				
PT 8	0.3751	0.8969	0.090650	0.006930	-0.004284	0.007677	-15.3
	163.4	736.1	-0.000319	0.000000	-0.000980	0.004259	2.2
	-5.0	13.5	0.0022				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 9	0.3758	0.8980	0.032820	0.003800	-0.000922	0.004045	-16.3
	164.1	737.9	-0.000264	0.000000	-0.000794	0.002509	3.9
	-10.0	10.0	0.0022				
PT 10	0.3782	0.8925	0.043020	0.005690	-0.001256	0.004986	-16.7
	164.0	732.8	-0.000162	0.000000	-0.000943	0.002652	3.6
	-10.0	11.0	0.0022				
PT 11	0.3745	0.8997	0.052560	0.007720	-0.001795	0.006036	-17.8
	164.1	740.7	-0.000150	0.000000	-0.001203	0.002870	3.1
	-10.0	12.0	0.0022				
PT 12	0.3766	0.8974	0.062340	0.009630	-0.002097	0.007225	-18.7
	164.5	738.4	-0.000208	0.000000	-0.001507	0.003213	2.8
	-10.0	13.0	0.0022				
PT 13	0.3758	0.8980	0.067070	0.010580	-0.002089	0.007833	-19.2
	164.4	739.3	-0.000197	0.000000	-0.001637	0.003410	2.7
	-10.0	13.5	0.0022				
PT 14	0.3762	0.8951	-0.008910	-0.002810	-0.001469	0.001785	0.3
	164.2	737.5	0.000045	0.000000	0.000185	0.002834	3.7
	0.0	0.0	0.0022				
PT 15	0.3772	0.8936	0.010040	-0.002610	-0.001376	0.001424	-1.4
	164.5	737.0	-0.000090	0.000000	0.000276	0.002400	3.9
	0.0	2.0	0.0022				
PT 16	0.3777	0.8951	0.030560	-0.002530	-0.001667	0.001357	-3.0
	164.9	737.9	-0.000141	0.000000	0.000180	0.002221	3.6
	0.0	4.0	0.0022				
PT 17	0.3766	0.8960	0.049110	-0.002310	-0.002260	0.001622	-4.7
	164.7	739.3	-0.000133	0.000000	0.000182	0.002253	3.6
	0.0	6.0	0.0022				
PT 18	0.3768	0.8956	0.059080	-0.002150	-0.002880	0.001904	-5.6
	164.7	738.8	-0.000187	0.000000	0.000210	0.002366	3.4
	0.0	7.0	0.0022				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 19	0.3766	0.8963	0.068490	-0.001780	-0.003195	0.002309	-6.5
	165.0	740.2	-0.000121	0.000000	0.000093	0.002513	3.4
	0.0	8.0	0.0022				
PT 20	0.3757	0.8974	0.078130	-0.001800	-0.003978	0.002732	-7.3
	164.9	741.6	-0.000041	0.000000	-0.000059	0.002801	3.2
	0.0	9.0	0.0022				
PT 21	0.3749	0.8983	0.086120	-0.001330	-0.004230	0.003321	-8.2
	164.9	743.4	-0.000211	0.000000	-0.000073	0.003081	3.3
	0.0	10.0	0.0022				
PT 22	0.3753	0.8972	0.093910	-0.000740	-0.005087	0.004287	-9.2
	165.0	743.0	-0.000345	0.000000	-0.000145	0.003686	3.0
	0.0	11.0	0.0022				
RUN 59							
PT 5	0.3743	0.8989	0.054650	0.002970	-0.002122	0.004242	-13.0
	163.0	736.1	-0.000494	0.000000	-0.000289	0.002831	4.4
	-5.0	10.0	0.0022				
PT 6	0.3754	0.8979	0.074820	0.005250	-0.003420	0.005925	-14.9
	163.5	736.1	-0.000589	0.000000	-0.000542	0.003395	3.9
	-5.0	12.0	0.0022				
PT 7	0.3750	0.8977	0.093350	0.007580	-0.004190	0.008401	-16.5
	163.6	737.5	-0.000853	0.000000	-0.000782	0.004689	3.1
	-5.0	14.0	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2H

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 59							
PT 8	0.3736	0.9405	0.046380	0.001660	-0.001814	0.003999	-11.7
	171.5	775.7	-0.000447	0.000000	-0.000074	0.003163	4.1
	-5.0	9.0	0.0022				
PT 9	0.3742	0.9406	0.065140	0.003620	-0.002866	0.005485	-13.2
	171.9	776.2	-0.000576	0.000000	-0.000328	0.003705	3.7
	-5.0	11.0	0.0022				
PT 10	0.3752	0.9388	0.076410	0.004550	-0.003675	0.006399	-13.7
	172.0	774.8	-0.000518	0.000000	-0.000489	0.004109	3.1
	-5.0	12.0	0.0022				
PT 11	0.3746	0.9403	0.056830	0.002450	-0.002976	0.004649	-12.1
	172.2	777.1	-0.000413	0.000000	-0.000067	0.003409	3.6
	-5.0	10.0	0.0022				
PT 12	0.3751	0.9389	0.051350	-0.000260	-0.002268	0.003167	-8.7
	172.5	777.1	-0.000291	0.000000	0.000124	0.003003	3.8
	-2.5	8.0	0.0022				
PT 13	0.3761	0.9367	0.060880	0.000120	-0.002757	0.003594	-9.4
	172.4	774.8	-0.000364	0.000000	0.000002	0.003179	3.7
	-2.5	9.0	0.0022				
PT 14	0.3752	0.9398	0.069220	0.000690	-0.003326	0.004247	-10.3
	172.8	778.5	-0.000508	0.000000	-0.000060	0.003510	3.5
	-2.5	10.0	0.0022				
PT 15	0.3747	0.9406	0.081140	0.001110	-0.004118	0.005036	-11.1
	172.8	779.4	-0.000397	0.000000	-0.000059	0.003963	3.2
	-2.5	11.0	0.0022				
PT 16	0.3738	0.9427	0.051980	0.004660	-0.001838	0.005641	-15.0
	173.3	783.3	-0.000404	0.000000	-0.000578	0.003629	3.6
	-7.5	11.0	0.0022				

SWEPT TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 17	0.3738	0.9424	0.071070	0.007600	-0.002795	0.007622	-16.6
	173.4	783.8	-0.000679	0.000000	-0.001012	0.004275	3.1
	-7.5	13.0	0.0022				
PT 18	0.3724	0.9450	0.076970	0.008180	-0.003045	0.008278	-16.6
	173.5	787.4	-0.000581	0.000000	-0.001280	0.004636	2.5
	-7.5	13.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 23							
PT 3	0.2008	C.7184	-0.009090	-0.001120	-0.000553	0.001251	-1.1
	78.8	663.5	0.000026	0.000000	0.000143	0.001460	1.8
	0.0	0.0	0.0024				
PT 4	0.2010	0.7174	0.012920	-0.000870	-0.000685	0.001099	-1.6
	78.9	663.0	0.000261	0.000000	0.000148	0.001244	1.2
	0.0	2.0	0.0024				
PT 5	0.2010	0.7171	0.034890	-0.000890	-0.001040	0.001252	-2.3
	78.9	663.5	0.000276	0.000000	0.000092	0.001204	0.9
	0.0	4.0	0.0024				
PT 6	0.2019	0.7160	0.058380	-0.001130	-0.001757	0.001667	-3.0
	79.2	662.6	0.000383	0.000000	-0.000012	0.001265	0.6
	0.0	6.0	0.0024				
PT 7	0.2012	0.7171	0.080790	-0.001520	-0.002880	0.002339	-3.8
	79.0	664.0	0.000330	0.000000	0.000000	0.001432	0.2
	0.0	8.0	0.0024				
PT 8	0.2003	C.7180	0.103750	-0.002070	-0.004304	0.003308	-4.6
	78.9	665.3	0.000198	0.000000	-0.000144	0.001713	-0.2
	0.0	10.0	0.0024				
PT 9	0.1991	0.7220	0.114910	-0.002360	-0.005253	0.004021	-5.1
	79.0	670.4	0.000132	0.000000	-0.000157	0.002012	-0.5
	0.0	11.0	0.0024				
PT 10	0.2003	0.7198	0.125340	-0.002650	-0.006231	0.004893	-5.6
	79.1	667.7	0.000216	0.000000	-0.000230	0.002492	-0.9
	0.0	11.0	0.0024				
PT 11	0.2007	0.7179	0.134440	-0.002420	-0.006978	0.006071	-6.2
	79.1	666.3	0.000055	0.000000	-0.000341	0.003191	-1.1
	0.0	13.0	0.0024				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.2003	0.7191	0.137360	-0.002350	-0.007434	0.006774	-6.6
	79.1	667.7	-0.000011	0.000000	-0.000368	0.003726	-1.4
	0.0	13.5	0.0024				
PT 13	0.2003	0.7193	0.026560	0.000250	-0.000846	0.001388	-4.7
	79.2	668.6	-0.000109	0.000000	-0.000102	0.001207	1.1
	-2.5	4.0	0.0024				
PT 14	0.1994	0.7213	0.048500	0.001100	-0.001308	0.001927	-5.7
	79.2	670.9	-0.000028	0.000000	-0.000167	0.001268	0.9
	-2.5	6.0	0.0024				
PT 15	0.2004	0.7183	0.073130	0.001770	-0.002404	0.002781	-6.3
	79.2	668.1	0.000009	0.000000	-0.000229	0.001430	0.4
	-2.5	8.0	0.0024				
PT 16	0.2005	0.7178	0.096500	0.002310	-0.003790	0.003907	-7.1
	79.2	667.7	-0.000009	0.000000	-0.000348	0.001708	-0.1
	-2.5	10.0	0.0024				
PT 17	0.2004	0.7177	0.117180	0.002930	-0.005438	0.005491	-8.1
	79.2	667.7	-0.000162	0.000000	-0.000528	0.002342	-0.8
	-2.5	12.0	0.0024				
PT 18	0.2008	0.7185	0.126270	0.003280	-0.006095	0.006670	-8.7
	79.4	668.1	-0.000155	0.000000	-0.000653	0.003043	-0.9
	-2.5	13.0	0.0024				
PT 19	0.1998	0.7193	0.128850	0.004260	-0.006468	0.007974	-9.4
	79.2	669.5	0.001227	0.000000	-0.000917	0.004016	-1.4
	-2.5	14.0	0.0024				
PT 22	0.2003	0.7199	0.042260	0.002620	-0.001121	0.002115	-7.9
	79.5	670.4	-0.000118	0.000000	-0.000202	0.001257	1.0
	-5.0	6.0	0.0024				
PT 23	0.2001	0.7179	0.064710	0.004430	-0.001969	0.003055	-8.7
	79.3	670.0	-0.000206	0.000000	-0.000335	0.001386	0.6
	-5.0	8.0	0.0023				

TAPERED TIP	V/OR VKTS ..FS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 24	0.2007	0.7193	0.087840	0.005830	-0.003317	0.004253	-9.5
	79.7	670.9	-0.000094	0.000000	-0.000512	0.001645	0.1
	-5.0	10.0	0.0023				
PT 25	0.2000	0.7179	0.109440	0.007430	-0.004895	0.005898	-10.4
	79.3	670.0	-0.000259	0.000000	-0.000759	0.002174	-0.5
	-5.0	12.0	0.0023				
PT 26	0.1993	0.7207	0.118160	0.008320	-0.005637	0.006979	-10.9
	79.4	673.4	-0.000420	0.000000	-0.000922	0.002702	-0.8
	-5.0	13.0	0.0023				
PT 27	0.1998	0.7200	0.124850	0.009270	-0.006290	0.008259	-11.6
	79.5	672.7	-0.000460	0.000000	-0.001094	0.003491	-1.1
	-5.0	14.0	0.0023				
PT 28	0.2020	0.7155	0.025600	-0.005870	-0.001429	0.000254	9.0
	79.7	667.2	0.000419	0.000000	0.000151	0.001318	0.8
	10.0	0.0	0.0023				
PT 29	0.2008	0.7155	0.046790	-0.009870	-0.001937	-0.000317	8.3
	79.4	668.6	0.000593	0.000000	0.000095	0.001257	0.6
	10.0	2.0	0.0023				
PT 30	0.2006	0.7164	0.068340	-0.014090	-0.002587	-0.000650	7.7
	79.5	669.5	0.000689	0.000000	0.000087	0.001305	0.5
	10.0	4.0	0.0023				
PT 31	0.2011	0.7170	0.090690	-0.018510	-0.003811	-0.000762	7.0
	79.8	670.4	0.000708	0.000000	-0.000035	0.001432	0.2
	10.0	6.0	0.0023				
PT 32	0.2013	0.7166	0.114120	-0.023490	-0.005238	-0.000647	6.5
	79.8	670.0	0.000896	0.000000	-0.000016	0.001666	-0.1
	10.0	8.0	0.0023				
PT 33	0.2021	0.7156	0.136240	-0.027940	-0.007053	0.000062	5.6
	80.0	668.6	0.000845	0.000000	0.000048	0.002275	-0.3
	10.0	10.0	0.0023				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 34	0.2008 79.9 10.0	0.7186 672.7 11.0	0.145380 0.000752 0.0023	-0.029600 0.000000	-0.008043 0.000156	0.000847 0.002855	5.0 -0.6

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 24							
PT 3	0.3011	0.7791	0.001290	-0.001680	-0.000772	0.001206	1.1
	120.1	674.3	-0.000068	0.000000	0.000005	0.001712	0.0
	0.0	1.0	0.0023				
PT 4	0.3012	0.7790	0.010820	-0.001490	-0.000851	0.001159	0.1
	120.3	674.8	-0.000003	0.000000	-0.000003	0.001594	-0.3
	0.0	2.0	0.0023				
PT 5	0.3005	0.7810	0.032750	-0.001350	-0.001219	0.001177	-0.9
	120.5	677.6	0.000060	0.000000	-0.000043	0.001449	-0.6
	0.0	4.0	0.0023				
PT 6	0.3010	0.7795	0.053790	-0.001230	-0.001989	0.001464	-2.0
	120.5	676.6	0.000167	0.000000	-0.000082	0.001476	-0.9
	0.0	6.0	0.0023				
PT 7	0.2993	0.7814	0.075130	-0.001030	-0.002894	0.002061	-3.3
	120.4	679.9	0.000170	0.000000	-0.000126	0.001665	-1.1
	0.0	8.0	0.0023				
PT 8	0.3011	0.7787	0.096930	-0.000750	-0.004561	0.003020	-4.8
	120.6	677.1	0.000170	0.000000	-0.000193	0.002081	-1.5
	0.0	10.0	0.0023				
PT 9	0.3010	0.7799	0.105510	-0.000280	-0.005154	0.003733	-5.6
	120.9	678.9	0.000022	0.000000	-0.000254	0.002436	-1.4
	0.0	11.0	0.0023				
PT 10	0.3005	0.7807	0.114810	0.000190	-0.006242	0.004735	-6.4
	120.9	679.9	0.000010	0.000000	-0.000298	0.003037	-1.9
	0.0	12.0	0.0023				
PT 11	0.3003	0.7811	0.120800	0.000750	-0.006930	0.006218	-7.3
	120.9	680.3	-0.000126	0.000000	-0.000404	0.004175	-2.2
	0.0	13.0	0.0023				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3006	0.7805	0.027120	-0.005500	-0.001975	0.000184	8.3
	121.0	680.3	0.000287	0.000000	0.000102	0.001746	-0.7
	7.5	0.0	0.0023				
PT 13	0.3018	0.7774	0.046340	-0.007930	-0.002528	-0.000539	7.2
	121.0	677.6	0.000396	0.000000	0.000077	0.001587	-1.0
	7.5	2.0	0.0022				
PT 14	0.3002	0.7796	0.066690	-0.010450	-0.003221	-0.000907	5.8
	120.8	680.3	0.000418	0.000000	0.000083	0.001678	-0.9
	7.5	4.0	0.0022				
PT 15	0.3013	0.7790	0.085930	-0.012770	-0.004269	-0.000987	4.7
	121.2	679.9	0.000453	0.000000	0.000049	0.001944	-1.0
	7.5	6.0	0.0022				
PT 16	0.3011	0.7781	0.106650	-0.014800	-0.005404	-0.000671	3.3
	120.9	678.5	0.000586	0.000000	-0.000075	0.002375	-1.1
	7.5	8.0	0.0022				
PT 17	0.3003	0.7812	0.115590	-0.015570	-0.006220	-0.000254	2.6
	121.1	681.7	0.000688	0.000000	-0.000061	0.002757	-1.2
	7.5	9.0	0.0022				
PT 18	0.3002	0.7817	0.123120	-0.016020	-0.006929	0.000608	1.7
	121.2	682.2	0.000608	0.000000	0.000028	0.003530	-1.2
	7.5	10.0	0.0022				
RUN 25							
PT 3	0.2997	0.7820	0.050480	0.003360	-0.001787	0.002945	-5.5
	119.6	674.3	-0.000218	0.000000	-0.000460	0.001621	-3.1
	-5.0	8.0	0.0023				
PT 4	0.2988	0.7809	0.072950	0.005540	-0.002589	0.004181	-6.9
	119.1	673.9	-0.000439	0.000000	-0.000734	0.001860	-3.6
	-5.0	10.0	0.0023				
PT 5	0.3004	0.7828	0.092110	0.007600	-0.004122	0.005712	-8.3
	120.0	675.3	-0.000562	0.000000	-0.001020	0.002373	-4.1
	-5.0	12.0	0.0023				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 6	0.3016	0.7801	0.101450	0.008660	-0.004686	0.006789	-9.0
	120.1	673.2	-0.000447	0.000000	-0.001205	0.002901	-4.5
	-5.0	13.0	0.0023				
PT 7	0.3005	0.7821	0.105010	0.009130	-0.005106	0.007416	-9.4
	120.1	675.3	-0.000324	0.000000	-0.001407	0.003300	-4.8
	-5.0	13.5	0.0023				
PT 8	0.3006	0.7798	0.050360	0.008030	-0.001424	0.004501	-11.2
	119.9	673.9	-0.000544	0.000000	-0.001037	0.001772	-3.2
	-10.0	10.0	0.0023				
PT 9	0.3005	0.7802	0.061090	0.010000	-0.001825	0.005391	-11.8
	119.9	674.3	-0.000572	0.000000	-0.001262	0.001923	-3.4
	-10.0	11.0	0.0023				
PT 10	0.3004	0.7812	0.071030	0.012070	-0.002134	0.006365	-12.4
	120.0	675.3	-0.000524	0.000000	-0.001574	0.002110	-3.8
	-10.0	12.0	0.0023				
PT 11	0.2999	0.7823	0.081230	0.013730	-0.002700	0.007345	-13.0
	120.2	677.1	-0.000341	0.000000	-0.001864	0.002405	-4.2
	-10.0	13.0	0.0023				
RUN 26							
PT 3	0.3000	0.7815	0.083560	0.006630	-0.003718	0.004911	-7.4
	119.4	672.7	-0.000441	0.000000	-0.000778	0.002051	-4.0
	-5.0	11.0	0.0023				
PT 4	0.2976	0.7850	0.049460	0.005390	-0.001298	0.003667	-8.2
	118.8	674.8	-0.000620	0.000000	-0.000865	0.001755	-3.5
	-7.5	9.0	0.0023				
PT 5	0.2996	0.7833	0.061050	0.006810	-0.001818	0.004421	-8.8
	119.3	673.2	-0.000727	0.000000	-0.001019	0.001916	-3.6
	-7.5	10.0	0.0023				
PT 6	0.3026	0.7804	0.081600	0.009720	-0.002782	0.006130	-10.3
	119.8	669.0	-0.000763	0.000000	-0.001393	0.002365	-4.2
	-7.5	12.0	0.0023				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 7	0.2997	0.7813	0.091340	0.011120	-0.003466	0.007032	-10.9
	119.1	671.3	-0.000722	0.000000	-0.001659	0.002658	-4.5
	-7.5	13.0	0.0023				
PT 8	0.2989	0.7811	0.099710	0.012300	-0.003873	0.008126	-11.6
	118.9	672.3	-0.000545	0.000000	-0.001880	0.003207	-4.9
	-7.5	14.0	0.0023				
PT 9	0.3005	0.7803	0.104560	0.013380	-0.003834	0.009651	-12.5
	119.4	671.3	-0.000202	0.000000	-0.002359	0.004269	-5.2
	-7.5	15.0	0.0023				
RUN 28							
PT 3	0.3001	0.7749	0.065250	0.005090	-0.001897	0.003876	-8.7
	119.5	673.2	-0.001321	0.000000	-0.000456	0.001817	0.4
	-2.5	9.6	0.0023				
PT 4	0.2996	0.7768	0.069200	0.004570	-0.002603	0.003787	-8.4
	120.2	678.2	-0.000969	0.000000	-0.000562	0.001820	0.0
	-2.5	9.7	0.0022				
PT 5	0.3024	0.7703	0.056840	0.006170	-0.001852	0.004076	-10.2
	120.2	671.8	-0.002076	0.000000	-0.000685	0.001813	0.7
	-2.5	9.7	0.0022				
PT 6	0.2991	0.7736	0.080570	0.002530	-0.003369	0.003389	-6.9
	119.7	676.4	-0.000039	0.000000	-0.000419	0.001820	-0.9
	-2.5	9.7	0.0022				
PT 8	0.3012	0.7719	0.067990	0.004980	-0.003789	0.003888	-9.0
	120.3	675.0	-0.001179	0.000000	-0.000998	0.001814	-1.0
	-2.5	9.7	0.0022				
PT 9	0.3007	0.7732	0.069260	0.004740	-0.003053	0.003831	-8.6
	120.4	676.4	-0.000986	0.000000	-0.000701	0.001809	-0.5
	-2.5	9.7	0.0022				
PT 12	0.3008	0.7730	0.066890	0.004840	-0.002644	0.003798	-8.7
	120.5	676.9	-0.001119	0.000000	-0.000633	0.001786	-0.2
	-2.5	9.7	0.0022				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 13	0.3030	0.7702	0.055340	0.006320	-0.002203	0.004035	-10.7
	120.7	673.2	-0.001494	0.000000	-0.000845	0.001742	-0.1
	-4.5	9.7	0.0022				
PT 14	0.3006	0.7701	0.079750	0.002470	-0.003248	0.003317	-6.4
	120.1	675.0	-0.000666	0.000000	-0.000396	0.001784	-0.4
	-0.5	9.7	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 25							
PT 12	0.3752	0.8276	-0.008400	-0.002530	-0.001606	0.001574	4.3
	150.3	677.1	-0.000200	0.000000	-0.000029	0.002518	-1.7
	0.0	0.0	0.0022				
PT 13	0.3747	0.8289	0.010230	-0.002330	-0.001673	0.001253	2.8
	150.4	678.5	-0.000128	0.000000	0.000090	0.002116	-1.8
	0.0	2.0	0.0022				
PT 14	0.3764	0.8270	0.029790	-0.002090	-0.001925	0.001220	1.2
	150.7	676.6	0.000074	0.000000	0.000104	0.001918	-2.1
	0.0	4.0	0.0022				
PT 15	0.3742	0.8304	0.048990	-0.001960	-0.002505	0.001407	-0.1
	150.8	681.2	0.000059	0.000000	0.000133	0.001900	-2.3
	0.0	6.0	0.0022				
PT 16	0.3754	0.8282	0.067480	-0.001380	-0.003282	0.002045	-1.9
	150.9	679.4	-0.000034	0.000000	-0.000103	0.002110	-2.5
	0.0	8.0	0.0022				
PT 17	0.3751	0.8285	0.084890	-0.000820	-0.004302	0.002971	-3.4
	150.9	679.9	0.000008	0.000000	-0.000108	0.002561	-2.6
	0.0	10.0	0.0022				
PT 18	0.3757	0.8270	0.093310	-0.000180	-0.004913	0.003804	-4.3
	150.9	678.9	0.000009	0.000000	-0.000219	0.003005	-2.9
	0.0	11.0	0.0022				
PT 19	0.3751	0.8270	0.100920	0.000490	-0.005991	0.005039	-5.2
	150.9	679.9	-0.000010	0.000000	-0.000364	0.003840	-3.3
	0.0	12.0	0.0022				
RUN 26							
PT 10	0.3769	0.8244	0.049630	0.002660	-0.001992	0.003477	-6.6
	149.4	670.0	-0.000281	0.000000	-0.000355	0.002231	-2.3
	-5.0	9.0	0.0023				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 11	0.3763 149.9 -5.0	0.8255 673.2 10.0	0.058800 -0.000212 0.0023	0.003740 0.000000	-0.002412 -0.000390	0.004127 0.002378	-7.4 -2.5
PT 12	0.3770 150.1 -5.0	0.8254 672.7 12.0	0.077360 -0.000371 0.0023	0.005910 0.000000	-0.003396 -0.000747	0.005677 0.002855	-9.2 -2.9
PT 13	0.3775 150.3 -5.0	0.8250 672.7 13.0	0.087130 -0.000468 0.0023	0.007120 0.000000	-0.004368 -0.000787	0.006732 0.003291	-10.1 -3.3
PT 14	0.3774 150.2 -10.0	0.8241 672.7 11.0	0.042340 -0.000401 0.0023	0.006150 0.000000	-0.001600 -0.000877	0.004809 0.002313	-12.3 -2.5
PT 15	0.3769 150.4 -10.0	0.8253 674.3 12.0	0.052450 -0.000433 0.0023	0.008200 0.000000	-0.001943 -0.001236	0.005885 0.002523	-13.1 -2.8
PT 16	0.3733 149.9 -10.0	0.8281 678.5 13.0	0.060420 -0.000730 0.0023	0.010030 0.000000	-0.002151 -0.001413	0.006843 0.002734	-14.0 -2.9
PT 17	0.3757 150.2 -10.0	0.8255 675.7 14.0	0.070730 -0.000564 0.0022	0.012050 0.000000	-0.002341 -0.001778	0.008083 0.003057	-14.7 -3.5
PT 19	0.3750 149.7 -10.0	0.8278 674.8 14.5	0.075680 -0.000036 0.0023	0.012970 0.000000	-0.002378 -0.002149	0.009012 0.003578	-15.2 -4.0
PT 20	0.3724 149.9 6.0	0.8313 680.3 0.0	0.024410 0.000183 0.0023	-0.004910 0.000000	-0.002461 0.000041	0.000431 0.002201	9.0 -2.3
PT 21	0.3745 150.1 6.0	0.8285 677.6 2.0	0.042980 0.000310 0.0023	-0.006650 0.000000	-0.002865 -0.000037	-0.000277 0.002029	7.6 -2.5

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 22	0.3740	0.8297	0.051620	-0.007360	-0.003097	-0.000474	7.0
	150.4	679.4	0.000362	0.000000	0.000020	0.002013	-2.4
	6.0	3.0	0.0023				
PT 23	0.3743	0.8293	0.060870	-0.008090	-0.003346	-0.000553	6.1
	,	678.9	0.000303	0.000000	0.000026	0.002104	-2.4
	.0	4.0	0.0023				
PT 24	0.3719	0.8314	0.069230	-0.009010	-0.003717	-0.000739	5.7
	150.2	682.6	0.000483	0.000000	0.000003	0.002130	-2.5
	6.0	5.0	0.0022				
PT 25	0.3766	0.8246	0.076930	-0.009340	-0.004024	-0.000609	4.7
	150.5	675.3	0.000410	0.000000	-0.000001	0.002323	-2.4
	6.0	6.0	0.0022				
PT 26	0.3727	0.8295	0.084930	-0.009770	-0.004451	-0.000391	4.0
	150.2	681.2	0.000413	0.000000	0.000015	0.002527	-2.0
	6.0	7.0	0.0022				
RUN 30							
PT 10	0.3794	0.8278	0.069930	0.007280	-0.003019	0.006208	-10.5
	151.4	674.6	-0.001341	0.000000	-0.000798	0.002966	-1.5
	-4.2	12.3	0.0023				
PT 11	0.3800	0.8258	0.070240	0.007410	-0.002955	0.006292	-10.6
	151.7	674.6	-0.001424	0.000000	-0.000846	0.002990	-1.4
	-4.2	12.4	0.0022				
PT 12	0.3789	0.8285	0.056430	0.008480	-0.001981	0.006418	-12.4
	151.9	677.3	-0.002601	0.000000	-0.000959	0.002891	-0.8
	-4.2	12.4	0.0022				
PT 13	0.3776	0.8281	0.087030	0.005360	-0.004345	0.005968	-8.9
	151.5	678.2	-0.000152	0.000000	-0.000746	0.003196	-2.5
	-4.2	12.4	0.0022				
PT 14	0.3783	0.8291	0.072410	0.007280	-0.000384	0.006326	-10.0
	151.9	678.7	-0.001409	0.000000	-0.000112	0.003055	0.3
	-4.2	12.4	0.0022				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 15	0.3792	0.8283	0.070740	0.007740	-0.005264	0.006393	-11.2
	152.2	678.2	-0.001414	0.000000	-0.001543	0.002965	-3.1
	-4.2	12.4	0.0022				
PT 16	0.3784	0.8289	0.071590	0.007570	-0.002996	0.006336	-10.6
	152.1	679.2	-0.001412	0.000000	-0.000886	0.002966	-1.4
	-4.2	12.4	0.0022				
PT 17	0.3773	0.8297	0.098290	0.007600	-0.003630	0.008535	-10.7
	152.0	681.0	-0.000543	0.000000	-0.000862	0.004712	-2.4
	-4.2	14.4	0.0022				
PT 18	0.3786	0.8260	0.038540	0.004740	-0.001853	0.004388	-10.7
	151.7	677.3	-0.002127	0.000000	-0.000994	0.002445	-0.9
	-4.2	10.4	0.0022				
PT 19	0.3777	0.8298	0.084910	0.005380	-0.003913	0.005950	-8.7
	152.3	681.5	-0.000895	0.000000	-0.000651	0.003203	-1.9
	-2.2	12.4	0.0022				
PT 20	0.3784	0.8289	0.058350	0.008500	-0.002499	0.006411	-12.7
	152.5	681.0	-0.001665	0.000000	-0.001085	0.002858	-1.3
	-6.2	12.4	0.0022				
PT 21	0.3772	0.8296	0.072340	0.007470	-0.003067	0.006350	-10.7
	152.4	682.9	-0.001360	0.000000	-0.000889	0.003015	-1.6
	-4.2	12.4	0.0022				
PT 22	0.3774	0.8295	0.073370	0.007320	-0.001120	0.006271	-10.4
	152.6	683.3	-0.000991	0.000000	-0.000137	0.002974	-1.8
	-4.2	12.4	0.0022				
PT 23	0.3762	0.8316	0.071670	0.007590	-0.005219	0.006345	-11.0
	152.6	685.6	-0.000829	0.000000	-0.001142	0.002981	-1.5
	-4.2	12.4	0.0022				
PT 24	0.3711	0.8310	0.072310	0.007520	-0.002901	0.006319	-11.2
	151.2	688.4	-0.001287	0.000000	-0.000732	0.003000	-1.7
	-4.2	12.4	0.0022				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 25	0.3781	0.8301	0.072300	0.007510	-0.003016	0.006381	-10.7
	153.2	684.7	-0.001264	0.000000	-0.000713	0.003025	-1.7
	-4.2	12.4	0.0022				
PT 26	0.3812	0.8337	0.071110	0.007370	-0.003028	0.006328	-10.8
	154.8	686.1	-0.001243	0.000000	-0.000710	0.003022	-1.7
	-4.2	12.4	0.0022				
RUN 32							
PT 3	0.3766	0.8271	0.023200	-0.004870	-0.002193	0.000488	7.0
	149.8	672.3	0.000112	0.000000	0.000041	0.002268	-0.8
	6.0	0.0	0.0023				
PT 4	0.3755	0.8268	0.041050	-0.006500	-0.002692	-0.000204	5.4
	149.6	673.2	0.000207	0.000000	0.000030	0.002071	-1.2
	6.0	2.0	0.0023				
PT 5	0.3756	0.8259	0.052050	-0.007580	-0.002886	-0.000413	4.7
	149.7	673.6	0.000358	0.000000	0.000154	0.002164	-1.2
	6.0	3.0	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2H

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 57							
PT 8	0.3762	0.9374	0.038310	0.000730	-0.001495	0.003459	-10.8
	172.6	775.2	-0.000221	0.000000	-0.000255	0.003040	4.4
	-5.0	8.0	0.0022				
RUN 58							
PT 3	0.3741	0.9384	0.038420	0.000720	-0.001527	0.003453	-9.5
	169.4	765.1	-0.000480	0.000000	-0.000305	0.003036	3.0
	-5.0	8.0	0.0022				
PT 4	0.3742	0.9393	0.057420	0.002650	-0.002474	0.004657	-11.2
	169.7	766.5	-0.000565	0.000000	-0.000577	0.003376	2.4
	-5.0	10.0	0.0022				
PT 5	0.3737	0.9388	0.069590	0.003500	-0.003231	0.005547	-11.8
	169.8	767.9	-0.000584	0.000000	-0.000688	0.003753	1.9
	-5.0	11.0	0.0022				
PT 6	0.3765	0.9376	0.077810	0.004610	-0.003479	0.006565	-12.9
	171.0	767.4	-0.000696	0.000000	-0.000940	0.004227	1.8
	-5.0	12.0	0.0022				
PT 7	0.3748	0.9378	0.081710	0.005120	-0.003557	0.007068	-13.2
	170.6	769.2	-0.000535	0.000000	-0.000989	0.004484	1.6
	-5.0	12.5	0.0022				
PT 8	0.3744	0.9395	0.051360	-0.000090	-0.002151	0.003195	-7.8
	170.9	771.6	-0.000577	0.000000	-0.000128	0.002965	3.0
	-2.5	8.0	0.0022				
PT 9	0.3742	0.9398	0.060490	0.000450	-0.002628	0.003686	-8.6
	171.2	773.4	-0.000561	0.000000	-0.000232	0.003151	2.9
	-2.5	9.0	0.0022				
PT 11	0.3796	0.9308	0.070560	0.001020	-0.003189	0.004139	-9.5
	171.9	765.1	-0.000547	0.000000	-0.000323	0.003260	2.7
	-2.5	10.0	0.0022				

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3756	0.9393	0.078000	0.001830	-0.003493	0.005058	-10.3
	172.1	774.3	-0.000765	0.000000	-0.000351	0.003767	2.6
	-2.5	11.0	0.0022				
PT 15	0.3741	0.9408	0.053600	0.005190	-0.001904	0.005793	-14.6
	170.3	769.2	-0.000736	0.000000	-0.000928	0.003564	3.0
	-7.5	11.0	0.0022				
PT 16	0.3730	0.9425	0.069120	0.007430	-0.002559	0.007409	-15.6
	170.4	772.0	-0.000625	0.000000	-0.001201	0.004160	2.4
	-7.5	12.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2I

TAPERED TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 58							
PT 17	0.3749	0.9655	0.047820	0.003620	-0.001666	0.005669	-13.6
	175.8	792.5	-0.000645	0.000000	-0.000867	0.004083	2.9
	-7.5	10.5	0.0022				
PT 18	0.3743	0.9667	0.070010	0.006930	-0.002086	0.008223	-15.3
	175.8	793.9	-0.000090	0.000000	-0.001533	0.005140	2.0
	-7.5	12.8	0.0022				
PT 19	0.3744	0.9671	0.056030	0.001550	-0.002126	0.005223	-10.9
	176.1	794.8	-0.000858	0.000000	-0.000572	0.004330	2.6
	-5.0	10.0	0.0022				
PT 20	0.3752	0.9656	0.065820	0.002270	-0.002683	0.005948	-11.6
	176.3	793.9	-0.000906	0.000000	-0.000830	0.004664	2.3
	-5.0	11.0	0.0022				
PT 21	0.3732	0.9692	0.076240	0.004720	-0.003099	0.006914	-12.2
	176.2	798.0	-0.000162	0.000000	-0.000901	0.004570	1.7
	-5.0	12.0	0.0022				
PT 22	0.3740	0.9670	0.084620	0.003820	-0.003400	0.008056	-13.2
	176.1	795.7	-0.000632	0.000000	-0.001272	0.005912	1.4
	-5.0	13.0	0.0022				
PT 23	0.3753	0.9650	0.052220	-0.000500	-0.002436	0.003671	-7.5
	176.5	794.8	-0.000473	0.000000	-0.000318	0.003589	2.7
	-2.5	8.0	0.0022				
PT 24	0.3742	0.9665	0.068620	0.000550	-0.002948	0.004767	-8.9
	176.4	796.7	-0.000602	0.000000	-0.000197	0.004092	2.7
	-2.5	10.0	0.0022				
PT 26	0.3753	0.9655	0.078300	0.001000	-0.003383	0.005569	-10.0
	176.9	796.7	-0.000867	0.000000	-0.000388	0.004583	2.4
	-2.5	11.0	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1A 2B

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 39							
PT 3	0.2006	0.7202	0.026960	0.000320	-0.000842	0.001467	-9.1
	79.2	667.2	0.000192	0.000000	0.000066	0.001268	10.4
	-2.5	4.0	0.0024				
PT 4	0.2008	0.7186	0.049790	0.001240	-0.001426	0.002038	-8.1
	79.2	666.3	0.000155	0.000000	0.000010	0.001327	10.5
	-2.5	6.0	0.0024				
PT 5	0.2013	0.7179	0.073750	0.001820	-0.002321	0.002871	-6.0
	79.3	665.3	0.000222	0.000000	-0.000046	0.001494	10.6
	-2.5	8.0	0.0024				
PT 6	0.2008	0.7204	0.095330	0.002370	-0.003786	0.003991	-8.1
	79.4	668.6	0.000205	0.000000	-0.000190	0.001824	10.9
	-2.5	10.0	0.0024				
PT 7	0.2014	0.7173	0.107510	0.002740	-0.004603	0.004796	-9.5
	79.3	665.3	0.000103	0.000000	-0.000248	0.002098	12.9
	-2.5	11.0	0.0024				
PT 8	0.2014	0.7152	0.117410	0.003060	-0.005743	0.005647	-9.3
	79.3	665.3	-0.000029	0.000000	-0.000367	0.002472	11.1
	-2.5	12.0	0.0023				
PT 9	0.2017	0.7159	0.040860	0.002700	-0.001144	0.002189	-10.5
	79.5	665.8	-0.000040	0.000000	-0.000119	0.001335	11.1
	-5.0	6.0	0.0023				
PT 10	0.2013	0.7182	0.063400	0.004470	-0.001979	0.003118	-9.1
	79.6	668.1	-0.000030	0.000000	-0.000225	0.001471	10.3
	-5.0	8.0	0.0023				
PT 11	0.2015	0.7175	0.089080	0.006390	-0.003477	0.004580	-9.1
	79.5	666.7	-0.000059	0.000000	-0.000424	0.001820	12.1
	-5.0	10.0	0.0023				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.2007	0.7190	0.109950	0.007760	-0.005072	0.006186	-12.4
	79.4	668.6	-0.000170	0.000000	-0.000629	0.002378	12.4
	-5.0	12.0	0.0023				
PT 13	0.2006	0.7199	0.117560	0.008470	-0.005634	0.007014	-13.5
	79.5	669.5	-0.000252	0.000000	-0.000712	0.002740	12.9
	-5.0	13.0	0.0023				
PT 15	0.2018	0.7177	-0.010200	-0.001180	-0.000531	0.001314	-7.7
	79.6	666.7	0.000162	0.000000	0.000241	0.001534	13.0
	0.0	0.0	0.0023				
PT 16	0.2017	0.7184	0.010940	-0.000920	-0.000697	0.001130	-7.4
	79.7	668.1	0.000353	0.000000	0.000354	0.001292	13.0
	0.0	2.0	0.0023				
PT 17	0.2008	0.7169	0.034690	-0.000870	-0.001025	0.001275	-7.1
	79.3	667.2	0.000454	0.000000	0.000293	0.001225	13.0
	0.0	4.0	0.0023				
PT 18	0.2024	0.7154	0.058560	-0.001070	-0.001771	0.001707	-7.0
	79.6	664.9	0.000502	0.000000	0.000164	0.001289	13.0
	0.0	6.0	0.0023				
PT 19	0.2012	0.7176	0.079830	-0.001320	-0.002665	0.002340	-4.6
	79.5	667.7	0.000420	0.000000	0.000198	0.001422	10.2
	0.0	8.0	0.0023				
PT 20	0.2015	0.7178	0.105980	-0.002270	-0.004301	0.003442	-4.6
	79.6	667.7	0.000454	0.000000	0.000084	0.001816	11.5
	0.0	10.0	0.0023				
PT 21	0.2013	0.7181	0.115200	-0.002340	-0.005078	0.004078	-3.5
	79.6	668.1	0.000360	0.000000	-0.000039	0.002085	11.2
	0.0	11.0	0.0023				
PT 22	0.2022	0.7160	0.124850	-0.002280	-0.006110	0.004916	-6.3
	79.7	666.3	0.000275	0.000000	-0.000072	0.002495	14.4
	0.0	12.0	0.0023				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 23	0.2021	0.7165	0.046530	-0.009750	-0.002034	-0.000242	6.3
	79.7	666.7	0.000697	0.000000	0.000261	0.001330	10.7
	10.0	2.0	0.0023				
PT 24	0.2019	0.7149	0.068850	-0.014180	-0.002759	-0.000570	7.2
	79.5	665.3	0.000770	0.000000	0.000298	0.001415	9.7
	10.0	4.0	0.0023				
PT 25	0.2015	0.7156	0.090170	-0.018430	-0.003810	-0.000728	5.8
	79.4	666.3	0.000918	0.000000	0.000200	0.001478	10.0
	10.0	6.0	0.0023				
PT 26	0.2009	0.7172	0.113140	-0.022970	-0.004905	-0.000439	5.6
	79.4	668.1	0.000868	0.000000	0.000211	0.001793	10.5
	10.0	8.0	0.0023				
PT 27	0.2019	0.7178	0.137040	-0.027960	-0.006767	0.000248	5.5
	79.8	668.1	0.000946	0.000000	0.000300	0.002417	11.3
	10.0	10.0	0.0023				
PT 28	0.2014	0.7185	0.144900	-0.029550	-0.007850	0.000826	5.3
	79.7	669.0	0.000895	0.000000	0.000306	0.002883	12.7
	10.0	11.0	0.0023				
PT 29	0.2021	0.7153	0.024780	-0.00[illegible]1[illegible]	-0.001266	0.000362	6.2
	79.7	666.3	0.000086	0.000000	0.000223	0.001442	9.2
	10.0	0.0	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1C 2D

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 40							
PT 3	0.3016	0.7780	0.029340	0.001340	-0.000612	0.002113	-6.5
	119.2	668.1	-0.000276	0.000000	-0.000277	0.001601	4.3
	-5.0	6.0	0.0023				
PT 4	0.3009	0.7796	0.049820	0.003310	-0.001688	0.002997	-7.3
	119.4	670.4	-0.000263	0.000000	-0.000379	0.001693	4.7
	-5.0	8.0	0.0023				
PT 5	0.2997	0.7813	0.071670	0.005340	-0.002791	0.004164	-8.4
	119.4	673.2	-0.000374	0.000000	-0.000571	0.001923	3.4
	-5.0	10.0	0.0023				
PT 6	0.2996	0.7799	0.091010	0.007430	-0.004193	0.005706	-9.9
	119.3	672.7	-0.000614	0.000000	-0.000683	0.002446	2.5
	-5.0	12.0	0.0023				
PT 7	0.3005	0.7792	0.100130	0.008630	-0.005024	0.006776	-11.3
	119.5	672.3	-0.000653	0.000000	-0.000860	0.002935	1.6
	-5.0	13.0	0.0023				
PT 8	0.3005	0.7808	0.107390	0.009880	-0.005669	0.008076	-12.7
	119.8	673.6	-0.000806	0.000000	-0.001127	0.003671	1.0
	-5.0	14.0	0.0023				
PT 9	0.3019	0.7775	0.026260	0.003520	-0.000999	0.002782	-11.0
	119.9	671.3	-0.000380	0.000000	-0.000533	0.001632	3.7
	-10.0	8.0	0.0023				
PT 10	0.3008	0.7804	0.048080	0.007720	-0.001654	0.004377	-12.6
	120.1	675.0	-0.000602	0.000000	-0.000847	0.001768	3.6
	-10.0	10.0	0.0023				
PT 11	0.3009	0.7789	0.069490	0.011940	-0.002743	0.006331	-14.6
	119.9	673.6	-0.000707	0.000000	-0.001347	0.002139	2.5
	-10.0	12.0	0.0023				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.2981	0.7844	0.088710	0.015810	-0.003837	0.008447	-16.8
	120.0	680.6	-0.000707	0.000000	-0.001736	0.002748	1.6
	-10.0	14.0	0.0023				
PT 13	0.2995	0.7808	0.098420	0.017780	-0.004268	0.009809	-17.9
	120.0	677.3	-0.000715	0.000000	-0.002149	0.003275	0.9
	-10.0	15.0	0.0023				
PT 14	0.2999	0.7810	-0.010320	-0.001900	-0.000993	0.001476	-1.4
	120.2	677.3	-0.000378	0.000000	0.000044	0.002032	2.9
	0.0	0.0	0.0023				
PT 15	0.3012	0.7800	0.011550	-0.001550	-0.001042	0.001190	-1.3
	120.6	676.4	-0.000040	0.000000	0.000141	0.001640	3.0
	0.0	2.0	0.0023				
PT 16	0.3009	0.7793	0.034970	-0.001250	-0.001482	0.001266	-1.1
	120.4	675.9	0.000135	0.000000	0.000071	0.001491	3.2
	0.0	4.0	0.0023				
PT 17	0.2997	0.7821	0.055000	-0.000980	-0.002010	0.001607	-1.1
	120.5	679.6	0.000103	0.000000	0.000057	0.001525	3.0
	0.0	6.0	0.0022				
PT 18	0.3007	0.7790	0.076400	-0.000910	-0.003258	0.002177	-2.5
	120.4	676.4	0.000289	0.000000	-0.000062	0.001725	3.9
	0.0	8.0	0.0022				
PT 19	0.2992	0.7818	0.095070	-0.000620	-0.004460	0.003035	-2.9
	120.3	679.6	0.000176	0.000000	-0.000006	0.002093	3.3
	0.0	10.0	0.0022				
PT 20	0.2997	0.7832	0.114270	0.000090	-0.006144	0.004649	-4.3
	120.7	680.6	-0.000013	0.000000	-0.000177	0.002993	2.6
	0.0	12.0	0.0022				
PT 21	0.3013	0.7802	0.120720	0.000870	-0.007028	0.006101	-5.6
	120.8	677.8	-0.000135	0.000000	-0.000310	0.004032	2.2
	0.0	13.0	0.0022				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 41							
PT 3	0.3002	0.7804	0.019640	-0.003910	-0.001537	0.000637	9.5
	119.7	674.1	-0.000020	0.000000	-0.000081	0.001762	3.1
	6.0	0.0	0.0023				
PT 4	0.3012	0.7805	0.042230	-0.006070	-0.002056	0.000041	6.7
	120.1	673.6	0.000299	0.000000	0.000059	0.001648	2.1
	6.0	2.0	0.0023				
PT 5	0.2996	0.7827	0.062800	-0.008220	-0.002805	-0.000340	5.0
	119.9	676.4	0.000397	0.000000	0.000034	0.001630	0.6
	6.0	4.0	0.0023				
PT 6	0.2995	0.7814	0.081920	-0.010020	-0.003652	-0.000324	3.5
	119.8	675.9	0.000484	0.000000	-0.000022	0.001838	0.8
	6.0	6.0	0.0023				
PT 7	0.2994	0.7824	0.104300	-0.011820	-0.005120	0.000105	3.1
	119.9	676.9	0.000494	0.000000	-0.000070	0.002287	1.0
	6.0	8.0	0.0023				
PT 8	0.3020	0.7779	0.112840	-0.012390	-0.006227	0.000479	2.8
	120.1	672.3	0.000378	0.000000	-0.000174	0.002645	1.3
	6.0	9.0	0.0023				
PT 9	0.2988	0.7856	0.120180	-0.012470	-0.006535	0.001295	2.5
	120.3	680.6	0.000422	0.000000	-0.000085	0.003215	1.8
	6.0	10.0	0.0023				
RUN 42							
PT 3	0.2986	0.7880	0.069570	0.004540	-0.001560	0.003920	-10.9
	119.3	675.0	-0.001013	0.000000	0.000026	0.001960	4.1
	-2.5	9.5	0.0023				
PT 4	0.3008	0.7881	0.068990	0.004640	-0.001896	0.003957	-11.1
	120.1	674.6	-0.001043	0.000000	-0.000131	0.001972	3.9
	-2.5	9.5	0.0023				
PT 5	0.3013	0.7874	0.057540	0.006110	-0.001292	0.004198	-13.0
	120.3	675.0	-0.001997	0.000000	-0.000295	0.001946	4.7
	-2.5	9.5	0.0023				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 6	0.3011 120.2 -2.5	0.7868 674.6 9.5	0.084860 0.000175 0.0023	0.001720 0.000000	-0.002990 0.000020	0.003346 0.001936	-8.8 2.7
PT 7	0.3022 120.4 -2.5	0.7858 673.2 9.5	0.070230 -0.000985 0.0023	0.004290 0.000000	0.001941 0.001064	0.003911 0.002006	-10.1 7.0
PT 8	0.3015 120.4 -2.5	0.7875 675.0 9.5	0.069220 -0.000955 0.0023	0.004700 0.000000	-0.003605 -0.000639	0.003950 0.001933	-11.4 2.8
PT 9	0.3018 120.1 -2.5	0.7842 672.7 9.5	0.070590 -0.000950 0.0023	0.004500 0.000000	-0.000896 0.000205	0.003926 0.001951	-10.8 4.7
PT 10	0.3004 120.1 -2.5	0.7866 675.5 11.5	0.100300 -0.000263 0.0023	0.003790 0.000000	-0.001674 0.000287	0.004925 0.002534	-10.7 3.9
PT 11	0.3019 120.2 -2.5	0.7836 672.7 7.5	0.036000 -0.001717 0.0023	0.003000 0.000000	-0.000400 0.000039	0.002799 0.001731	-10.9 5.5
PT 12	0.3022 120.7 -2.5	0.7865 675.0 9.5	0.069430 -0.000942 0.0023	0.004510 0.000000	-0.002177 -0.000236	0.003896 0.001937	-11.0 3.7
PT 13	0.3021 120.5 -2.5	0.7846 674.1 11.5	0.100180 -0.000297 0.0023	0.003900 0.000000	-0.003910 -0.000132	0.004578 0.002560	-11.1 2.8
PT 14	0.3016 120.3 -2.5	0.7843 674.1 7.5	0.038550 -0.001616 0.0023	0.003210 0.000000	-0.001317 -0.000418	0.002882 0.001730	-11.2 4.1
PT 15	0.3026 120.6 -2.5	0.7843 673.6 9.5	0.069530 -0.001037 0.0023	0.004620 0.000000	-0.002231 -0.000244	0.003932 0.001937	-11.1 3.9

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 16	0.3024	0.7837	0.057450	0.006150	-0.001592	0.004172	-13.2
	120.5	673.2	-0.001397	0.000000	-0.000498	0.001905	3.8
	-4.5	9.5	0.0023				
PT 17	0.3029	0.7843	0.080650	0.002330	-0.002941	0.003434	-9.0
	120.8	674.1	-0.000695	0.000000	0.000060	0.001925	3.4
	-0.5	9.5	0.0023				
PT 18	0.3024	0.7840	0.068980	0.004580	-0.002208	0.003924	-11.1
	120.6	674.1	-0.001073	0.000000	-0.000251	0.001950	3.5
	-2.5	9.5	0.0023				
PT 19	0.3027	0.7838	0.069380	0.004620	-0.002469	0.003908	-11.2
	120.9	675.0	-0.001021	0.000000	-0.000469	0.001915	3.7
	-2.5	9.5	0.0023				
PT 20	0.3032	0.7835	0.069170	0.004520	-0.004292	0.003913	-11.4
	121.0	674.6	-0.000734	0.000000	-0.000752	0.001953	3.9
	-2.5	9.5	0.0023				
PT 21	0.3040	0.7835	0.068600	0.004640	-0.002049	0.003913	-11.1
	121.3	674.1	-0.001123	0.000000	0.000165	0.001923	3.8
	-2.5	9.5	0.0023				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2E

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 41							
PT 10	0.3787	0.8277	0.050550	0.002770	-0.001784	0.003733	-6.8
	151.4	675.5	-0.000446	0.000000	-0.000523	0.002432	2.2
	-5.0	9.0	0.0022				
PT 11	0.3759	0.8271	0.050790	0.002780	-0.001602	0.003709	-6.7
	150.5	676.4	-0.000385	0.000000	-0.000452	0.002409	2.1
	-5.0	9.0	0.0022				
PT 12	0.3767	0.8253	0.062040	0.003970	-0.002651	0.004433	-7.4
	150.4	674.6	-0.000136	0.000000	-0.000416	0.002556	2.2
	-5.0	10.0	0.0022				
PT 13	0.3777	0.8248	0.080140	0.006050	-0.004224	0.006097	-9.4
	150.6	673.6	-0.000388	0.000000	-0.000727	0.003176	2.4
	-5.0	12.0	0.0022				
PT 14	0.3754	0.8283	0.087750	0.007130	-0.004171	0.007062	-10.1
	150.7	678.2	-0.000591	0.000000	-0.000884	0.003618	2.6
	-5.0	13.0	0.0022				
PT 15	0.3748	0.8296	0.094560	0.008430	-0.004487	0.008423	-11.1
	150.7	679.6	-0.000469	0.000000	-0.001209	0.004373	2.2
	-5.0	14.0	0.0022				
PT 16	0.3775	0.8254	0.032000	0.004120	-0.000811	0.004017	-12.1
	150.9	675.5	-0.000393	0.000000	-0.000883	0.002362	2.5
	-10.0	10.0	0.0022				
PT 17	0.3758	0.8283	0.055280	0.008570	-0.001553	0.006292	-13.6
	150.9	678.7	-0.000313	0.000000	-0.001353	0.002766	2.5
	-10.0	12.0	0.0022				
PT 18	0.3773	0.8258	0.071960	0.012150	-0.002192	0.008521	-15.3
	150.9	675.9	-0.000116	0.000000	-0.001985	0.003423	2.4
	-10.0	14.0	0.0022				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 19	0.3755	0.8296	0.076030	0.013030	-0.002276	0.009085	-16.0
	151.2	680.6	0.000067	0.000000	-0.002183	0.003618	2.2
	-10.0	14.5	0.0022				
PT 20	0.3776	0.8253	-0.011180	-0.002690	-0.001377	0.001724	5.1
	151.0	675.9	-0.000121	0.000000	0.000028	0.002727	1.8
	0.0	0.0	0.0022				
PT 21	0.3777	0.8253	0.010430	-0.002420	-0.001334	0.001339	3.5
	151.1	675.9	-0.000062	0.000000	0.000075	0.002241	1.7
	0.0	2.0	0.0022				
PT 22	0.3772	0.8261	0.027960	-0.002120	-0.001699	0.001400	2.3
	151.1	676.9	-0.000066	0.000000	0.000141	0.002123	1.7
	0.0	4.0	0.0022				
PT 23	0.3772	0.8267	0.049410	-0.001790	-0.002277	0.001657	0.7
	151.2	677.3	0.000012	0.000000	0.000022	0.002088	1.5
	0.0	6.0	0.0022				
PT 24	0.3747	0.8300	0.067800	-0.001430	-0.002825	0.002204	-0.7
	151.2	681.9	-0.000020	0.000000	-0.000047	0.002281	2.4
	0.0	8.0	0.0022				
PT 25	0.3750	0.8285	0.086420	-0.000840	-0.004259	0.003293	-2.9
	151.0	680.6	-0.000008	0.000000	-0.000129	0.002864	2.4
	0.0	10.0	0.0022				
PT 26	0.3775	0.8238	0.095850	-0.000310	-0.005064	0.004211	-3.3
	150.9	675.5	-0.000066	0.000000	-0.000164	0.003419	2.6
	0.0	11.0	0.0022				
PT 27	0.3770	0.8252	0.102270	0.000740	-0.005783	0.005464	-4.1
	151.0	676.9	-0.000257	0.000000	-0.000274	0.004149	2.6
	0.0	12.0	0.0022				
PT 28	0.3750	0.8291	0.105560	0.000940	-0.006133	0.006193	-4.8
	151.1	681.0	0.000005	0.000000	-0.000391	0.004731	2.8
	0.0	12.5	0.0022				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 42							
PT 24	0.3759	0.8257	0.024890	-0.005070	-0.002855	0.000463	4.6
	149.2	670.9	0.000174	0.000000	0.000449	0.002306	5.6
	6.0	0.0	0.0023				
PT 25	0.3750	0.8250	0.043670	-0.006770	-0.003206	-0.000242	2.8
	149.0	671.3	0.000393	0.000000	0.000394	0.002108	4.0
	6.0	2.0	0.0023				
PT 26	0.3742	0.8288	0.062010	-0.008450	-0.003915	-0.000610	1.3
	149.6	675.5	0.000379	0.000000	0.000328	0.002168	3.6
	6.0	4.0	0.0022				
PT 27	0.3760	0.8255	0.078460	-0.009470	-0.004499	-0.000509	-0.5
	149.8	673.2	0.000284	0.000000	0.000328	0.002441	3.8
	6.0	6.0	0.0022				
PT 28	0.3764	0.8246	0.087640	-0.010170	-0.005066	-0.000348	-1.2
	149.7	672.3	0.000291	0.000000	0.000320	0.002717	3.8
	6.0	7.0	0.0022				
PT 29	0.3758	0.8252	0.096720	-0.010510	-0.005900	0.000019	-2.3
	149.8	673.6	0.000286	0.000000	0.000300	0.003039	3.6
	6.0	8.0	0.0022				
PT 30	0.3739	0.8280	0.098820	-0.010390	-0.005673	0.000321	-2.6
	149.8	676.9	0.000274	0.000000	0.000421	0.003228	3.9
	6.0	8.5	0.0022				
RUN 45							
PT 12	0.3821	0.8161	0.074080	0.007680	-0.002076	0.006615	-16.7
	152.2	673.2	-0.001130	0.000000	-0.000525	0.003145	5.3
	-4.6	12.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1E 2E

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 43							
PT 3	0.3852	0.8343	0.073740	0.007250	-0.002945	0.006688	-16.0
	154.3	676.9	-0.001495	0.000000	-0.000727	0.003366	4.7
	-4.6	12.5	0.0022				
PT 4	0.3859	0.8313	0.072670	0.007430	-0.002967	0.006694	-16.1
	154.2	675.5	-0.001611	0.000000	-0.000696	0.003313	4.8
	-4.6	12.5	0.0022				
PT 5	0.3865	0.8336	0.055830	0.008130	-0.001876	0.006658	-18.3
	155.1	678.2	-0.002690	0.000000	-0.000920	0.003215	5.9
	-4.6	12.5	0.0022				
PT 6	0.3861	0.8311	0.086720	0.005450	-0.004351	0.006354	-14.5
	154.5	676.4	-0.000374	0.000000	-0.000628	0.003521	3.7
	-4.6	12.5	0.0022				
PT 7	0.3886	0.8288	0.071670	0.007140	-0.000193	0.006630	-15.3
	155.1	674.6	-0.001644	0.000000	0.000085	0.003359	6.9
	-4.6	12.5	0.0022				
PT 8	0.3891	0.8283	0.070440	0.007530	-0.004261	0.006722	-16.7
	155.3	674.6	-0.001597	0.000000	-0.001176	0.003316	3.6
	-4.6	12.5	0.0022				
PT 9	0.3890	0.8275	0.071760	0.007330	-0.002885	0.006688	-16.2
	155.3	674.6	-0.001592	0.000000	-0.000708	0.003342	5.0
	-4.6	12.5	0.0022				
PT 10	0.3893	0.8269	0.087040	0.007690	-0.003085	0.007608	-16.3
	155.4	674.6	-0.001205	0.000000	-0.000630	0.003888	4.8
	-4.6	13.5	0.0022				
PT 11	0.3899	0.8253	0.055640	0.006370	-0.002073	0.005762	-15.8
	155.4	673.6	-0.002047	0.000000	-0.000660	0.002982	5.7
	-4.6	11.5	0.0022				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3907	0.8254	0.070640	0.007300	-0.002540	0.006680	-16.3
	155.9	674.6	-0.001651	0.000000	-0.000668	0.003350	5.3
	-4.6	12.5	0.0022				
RUN 45							
PT 3	0.3895	0.8289	0.071920	0.007530	-0.002363	0.006715	-16.6
	155.3	673.6	-0.001323	0.000000	-0.000526	0.003288	5.3
	-4.6	12.5	0.0022				
PT 4	0.3898	0.8268	0.057970	0.008570	-0.001670	0.006679	-18.6
	155.4	673.6	-0.001773	0.000000	-0.000804	0.003015	5.6
	-6.6	12.5	0.0022				
PT 6	0.3899	0.8257	0.073320	0.007490	-0.000003	0.006363	-16.5
	155.6	674.6	-0.000858	0.000000	-0.000127	0.002927	4.9
	-4.6	12.5	0.0022				
PT 7	0.3914	0.8244	0.071050	0.007640	-0.004511	0.006694	-17.1
	155.8	672.7	-0.000782	0.000000	-0.000968	0.003223	5.4
	-4.6	12.5	0.0022				
PT 8	0.3929	0.8243	0.086960	0.005380	-0.003007	0.006313	-14.9
	156.5	673.2	-0.000772	0.000000	-0.000285	0.003480	5.0
	-2.6	12.5	0.0022				
PT 9	0.3910	0.8254	0.072800	0.007640	-0.002247	0.006680	-16.9
	156.2	675.0	-0.001154	0.000000	-0.000585	0.003185	5.3
	-4.6	12.5	0.0022				
PT 10	0.4013	0.8304	0.069840	0.007160	-0.002350	0.006613	-17.0
	160.2	674.6	-0.001174	0.000000	-0.000655	0.003285	5.3
	-4.6	12.5	0.0022				
PT 11	0.3911	0.8241	0.071860	0.007460	-0.002244	0.006618	-16.9
	156.1	674.6	-0.001082	0.000000	-0.000571	0.003206	5.3
	-4.6	12.5	0.0022				

DATA IN THE FOLLOWING GROUP OF POINTS SATISFIED THE FOLLOWING SEQUENCE OF CONSTRAINT CODES -
1D 2F

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO100	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
RUN 46							
PT 3	0.3757	0.8973	0.041060	0.001380	-0.001713	0.003311	-9.2
	161.8	727.8	-0.000407	0.000000	-0.000293	0.002627	4.9
	-5.0	8.0	0.0023				
PT 4	0.3769	0.8963	0.061550	0.003410	-0.002238	0.004706	-11.6
	162.6	729.2	-0.000551	0.000000	-0.000610	0.003044	4.2
	-5.0	10.0	0.0022				
PT 5	0.3751	0.8983	0.070300	0.004610	-0.002771	0.005560	-12.1
	162.6	732.4	-0.000710	0.000000	-0.000714	0.003340	4.1
	-5.0	11.0	0.0022				
PT 6	0.3752	0.8978	0.078420	0.005940	-0.003255	0.006490	-13.2
	162.5	731.9	-0.000716	0.000000	-0.000904	0.003650	3.5
	-5.0	12.0	0.0022				
PT 7	0.3753	0.8976	0.088970	0.006830	-0.003697	0.007691	-13.9
	162.9	733.8	-0.000482	0.000000	-0.001105	0.004337	2.7
	-5.0	13.0	0.0022				
PT 8	0.3745	0.8979	0.092050	0.007380	-0.003904	0.008367	-14.6
	162.9	735.2	-0.000462	0.000000	-0.001130	0.004755	2.5
	-5.0	13.5	0.0022				
PT 9	0.3768	0.8966	0.033290	0.003860	-0.000641	0.004281	-14.0
	163.7	734.2	-0.000462	0.000000	-0.000840	0.002718	4.9
	-10.0	10.0	0.0022				
PT 10	0.3768	0.8986	0.043940	0.006050	-0.001214	0.005344	-14.6
	164.2	736.5	-0.000461	0.000000	-0.001241	0.002873	4.8
	-10.0	11.0	0.0022				
PT 11	0.3760	0.8961	0.052760	0.008050	-0.001206	0.006420	-16.1
	163.7	735.6	-0.000494	0.000000	-0.001482	0.003118	4.0
	-10.0	12.0	0.0022				

RECTANGULAR TIP	V/OR VKTS ALFS,U	MAT OMEG*R THETA	CLR/S CMY/S RHO1J0	CXR/S CMZ/S	CYR/S CMX/S	CP/S CPO/S	ALFC A1
PT 12	0.3756	0.8970	0.073210	0.011750	-0.001741	0.J08947	-18.8
	163.7	736.5	-0.000021	0.000000	-0.001969	0.003999	2.3
	-10.0	14.0	0.0022				
PT 13	0.3753	0.8977	0.082050	0.013470	-0.001861	0.010371	-19.6
	163.9	737.9	0.000333	0.000000	-0.002502	0.J04644	1.6
	-10.0	15.0	0.0022				
PT 14	0.3732	0.8999	-0.012590	-0.002990	-0.001575	0.007086	-2.4
	163.8	741.6	-0.000160	0.000000	0.000203	0.003107	5.1
	0.0	0.0	0.0022				
PT 15	0.3774	0.8937	0.007690	-0.002810	-0.001336	0.001621	-3.2
	164.3	735.6	-0.000317	0.000000	0.000013	0.002678	5.4
	0.0	2.0	0.0022				
PT 16	0.3768	0.8950	0.027470	-0.002520	-0.001738	0.J01603	-3.9
	164.3	737.0	-0.000645	0.000000	-0.000060	0.002476	4.8
	0.0	4.0	0.0022				
PT 17	0.3749	0.8991	0.045070	-0.001960	-0.002244	0.001848	-3.3
	164.6	742.1	-0.000629	0.000000	-0.000112	0.J02381	5.7
	0.0	6.0	0.0022				
PT 18	0.3771	0.8949	0.053040	-0.001380	-0.002877	0.002255	-3.4
	164.6	737.5	-0.000767	0.000000	-0.000259	0.002496	5.4
	0.0	7.0	0.0022				
PT 19	0.3728	0.9019	0.062110	-0.001000	-0.003595	0.J02597	-3.5
	164.6	746.2	-0.000753	0.000000	-0.000267	0.J02584	4.9
	0.0	8.0	0.0022				
PT 20	0.3757	0.8977	0.072120	-0.000390	-0.003861	0.003191	-4.3
	164.8	741.1	-0.000583	0.000000	-0.000290	0.J02821	4.5
	0.0	9.0	0.0022				

SECTION B

Tabulated Loads Data

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
7	0.1462	0.7036	55.	1403.	3218.	266.	-5877.	-2387.	0.032
2	-0.26	-0.57	146.	1672.	3965.	3049.	-368.	6200.	0.014
			1255.	2343.	3495.	-1010.	-1427.	4341.	0.007
7	0.1462	0.7068	78.	1232.	3062.	220.	-6007.	-2550.	0.027
3	-0.20	-0.32	109.	1547.	3629.	3113.	-164.	5898.	0.016
			966.	2174.	3220.	-786.	-1208.	4170.	0.004
7	0.1491	0.6882	78.	1272.	3050.	218.	-5999.	-2566.	0.027
4	0.02	-0.36	101.	1560.	3599.	2958.	-179.	5640.	0.027
			987.	2131.	3110.	-764.	-1204.	3989.	0.004
8	0.1512	0.6855	65.	1502.	3088.	329.	-6144.	-2303.	0.033
4	0.15	-0.34	124.	1645.	3821.	2856.	-350.	6364.	0.028
			1208.	2241.	3515.	-988.	-1408.	4435.	0.006
8	0.1508	0.6872	73.	1335.	2885.	284.	-6248.	-2371.	0.025
5	-0.35	-0.30	81.	1496.	3387.	2890.	-186.	6203.	0.027
			978.	2014.	3097.	-791.	-1252.	4335.	0.005
8	0.1505	0.6889	95.	1234.	3176.	245.	-6398.	-2462.	0.050
6	-0.09	0.05	105.	1433.	3490.	3573.	8.	5994.	0.031
			839.	2059.	3363.	-560.	-1075.	4202.	0.001
8	0.1519	0.6873	162.	1312.	3739.	195.	-6554.	-2761.	0.085
7	0.02	0.15	307.	1496.	4118.	4780.	210.	5512.	0.038
			918.	2333.	4045.	-329.	-872.	3860.	0.007
8	0.1511	0.6872	271.	1519.	6699.	148.	-6700.	-2889.	0.080
8	-0.03	0.13	370.	1908.	6822.	6543.	413.	5208.	0.104
			1068.	2877.	6258.	-109.	-682.	3626.	0.007
8	0.1514	0.6874	306.	1696.	7831.	133.	-6795.	-2989.	0.099
9	-0.12	0.20	377.	2133.	8241.	7756.	537.	4994.	0.108
			1144.	3123.	7383.	29.	-533.	3496.	0.012
8	0.1518	0.6843	346.	1865.	8567.	108.	-6883.	-3071.	0.118
10	-0.08	0.26	457.	2343.	9028.	9050.	652.	4762.	0.130
			1230.	3384.	8087.	159.	-386.	3334.	0.015

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
8	0.1507	0.6862	359.	2023.	9501.	100.	-6995.	-3131.	0.131
11	0.12	0.21	545.	2555.	10023.	10816.	798.	4650.	0.131
			1368.	3593.	8921.	286.	-225.	3160.	0.015
8	0.1503	0.6862	382.	2252.	10333.	88.	-7069.	-3131.	0.152
12	-0.05	0.25	623.	2878.	10510.	12540.	907.	4510.	0.135
			1448.	3902.	9297.	409.	-120.	3104.	0.018
8	0.1502	0.6885	411.	2336.	11183.	72.	-7146.	-3017.	0.192
13	-0.05	0.26	666.	3080.	11057.	14850.	1020.	4478.	0.126
			1517.	4090.	9496.	572.	-19.	3140.	0.021
8	0.1519	0.6872	458.	2368.	11291.	52.	-7206.	-2745.	0.202
14	0.10	0.30	706.	3045.	10733.	17153.	1104.	4419.	0.136
			1479.	4083.	9135.	734.	62.	3205.	0.021
8	0.1511	0.6881	87.	1232.	2986.	243.	-6493.	-2497.	0.053
15	-0.16	0.02	142.	1389.	3371.	3853.	89.	5557.	0.037
			811.	2026.	3282.	-434.	-969.	4102.	0.003
9	0.1501	0.6894	71.	1228.	2751.	186.	-6534.	-3187.	0.037
3	0.60	-0.58	144.	1347.	3321.	3951.	101.	4891.	0.025
			906.	1970.	3217.	-546.	-960.	3680.	0.005
9	0.1503	0.6872	116.	1111.	3259.	147.	-6673.	-3378.	0.057
4	0.46	-0.63	236.	1328.	3668.	5335.	269.	4548.	0.039
			732.	2099.	3736.	-3[illegible]0.	-810.	3535.	0.003
9	0.1500	0.6851	184.	1329.	6092.	114.	-6798.	-3559.	0.064
5	0.57	-0.66	364.	1594.	6078.	6698.	406.	4210.	0.078
			840.	2480.	5470.	-146.	-664.	3387.	0.010
9	0.1509	0.6899	283.	1635.	8166.	82.	-6962.	-3719.	0.083
6	0.49	-0.36	387.	1988.	8175.	8873.	610.	3611.	0.094
			1053.	3138.	7366.	73.	-477.	3174.	0.020
9	0.1507	0.6879	328.	1961.	9345.	58.	-7123.	-3903.	0.111
7	0.49	-0.35	652.	2371.	9414.	11168.	818.	2814.	0.121
			1301.	3780.	8870.	302.	-287.	2911.	0.023

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
9	0.1517	0.6866	350.	2054.	9711.	44.	-7216.	-4041.	0.127
8	0.50	-0.25	775.	2508.	9853.	12501.	928.	4396.	0.142
			1457.	3990.	9308.	428.	-218.	2741.	0.028
9	0.1509	0.6852	70.	1227.	2579.	194.	-6530.	-3025.	0.041
9	0.61	-0.75	142.	1349.	3194.	3912.	94.	3913.	0.026
			875.	1961.	3061.	-557.	-1017.	3742.	0.001
10	0.2011	0.7169	123.	1495.	4392.	170.	-6729.	-3372.	0.043
3	0.51	-0.64	311.	1650.	4726.	5735.	208.	4012.	0.056
			1021.	2412.	4668.	-304.	-927.	3733.	0.008
10	0.2004	0.7180	220.	1700.	6960.	128.	-6904.	-3529.	0.059
4	0.49	-0.63	317.	1801.	6850.	8031.	415.	3637.	0.104
			1065.	2790.	6490.	-23.	-795.	3612.	0.002
10	0.2007	0.7182	289.	2006.	7757.	95.	-7122.	-3760.	0.099
5	0.48	-0.56	316.	2270.	7470.	10860.	656.	3175.	0.118
			1237.	3285.	7067.	289.	-627.	3428.	0.014
10	0.2005	0.7205	326.	2245.	8583.	80.	-7268.	-4006.	0.112
6	0.46	-0.57	412.	2604.	8145.	12581.	833.	2802.	0.131
			1376.	3749.	7777.	447.	-525.	3234.	0.017
10	0.1995	0.7199	365.	2379.	8850.	63.	-7371.	-4127.	0.128
7	0.56	-0.23	551.	2731.	8372.	14390.	954.	374.	0.145
			1493.	3886.	7928.	593.	-403.	3130.	0.021
10	0.2013	0.7162	395.	2556.	9974.	44.	-7498.	-4307.	0.152
8	0.52	-0.29	591.	2844.	9315.	16487.	1102.	-1613.	0.163
			1605.	4116.	8841.	758.	-275.	2967.	0.031
10	0.2012	0.7166	486.	2521.	9358.	24.	-7599.	-4305.	0.156
9	0.61	-0.41	640.	2835.	8667.	18873.	1215.	-2170.	0.153
			1580.	4104.	8869.	900.	-134.	2992.	0.036
10	0.2021	0.7157	71.	1781.	3693.	307.	-6057.	-2697.	0.035
10	0.55	-0.65	152.	1964.	4648.	2971.	-542.	1146.	0.038
			1467.	2468.	4181.	-1157.	-1468.	4539.	0.006

	RUN / T	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
T/TAPERED TIP	10	2017	0.7179	87.	1710.	3665.	267.	-6164.	-2182.	0.029
	11	0.61	-0.73	120.	1921.	4465.	2947.	-387.	983.	0.045
				1391.	2423.	4027.	-931.	-1420.	4578.	0.005
	10	0.2016	0.7159	93.	1694.	3648.	227.	-6327.	-2316.	0.035
	12	0.58	-0.70	143.	1876.	4308.	3449.	-198.	699.	0.045
				1273.	2467.	4138.	-658.	-1300.	4511.	0.004
	10	0.2006	0.7177	148.	1705.	6228.	179.	-6486.	-2591.	0.054
	13	0.48	-0.46	277.	1944.	6529.	4483.	-9.	288.	0.057
				1166.	2855.	6328.	-417.	-1196.	4377.	0.006
	10	0.2004	0.7179	237.	1676.	7413.	134.	-6654.	-2743.	0.063
	14	0.66	-0.41	311.	2026.	7606.	6249.	210.	-89.	0.116
				1150.	3185.	7644.	-158.	-1053.	4257.	0.003
LBS	10	0.2005	0.7179	302.	2046.	7503.	103.	-6828.	-2952.	0.114
	15	0.41	-0.29	471.	2265.	7721.	8341.	417.	-539.	0.134
				1221.	4432.	7836.	166.	-909.	4143.	0.007
	10	0.2003	0.7178	406.	2288.	8759.	72.	-7026.	-3034.	0.132
	16	0.62	-0.34	705.	2650.	8666.	11824.	674.	-853.	0.143
				1401.	3887.	8892.	464.	-707.	4048.	0.011
	10	0.2003	0.7168	79.	1670.	3534.	262.	-6311.	-2513.	0.036
	17	0.68	-0.09	154.	1796.	4266.	3086.	-246.	466.	0.042
				1268.	2320.	3985.	-902.	-1208.	4179.	0.007
	10	0.1997	0.7184	95.	1653.	3736.	223.	-6442.	-2572.	0.033
	18	0.57	-0.23	159.	1808.	4418.	3951.	-88.	335.	0.049
				1207.	2417.	4144.	-651.	-1146.	4271.	0.004
	10	0.2022	0.7160	143.	1662.	5366.	175.	-6630.	-2918.	0.061
	19	0.55	-0.10	319.	1785.	5723.	5299.	126.	-164.	0.052
				1130.	2680.	5548.	-371.	-1025.	4102.	0.008
	10	0.2008	0.7196	239.	1744.	7130.	128.	-6838.	-3208.	0.067
	20	0.60	-0.18	316.	1895.	7122.	7363.	363.	-606.	0.112
				1071.	3107.	7308.	-102.	-862.	3904.	0.001

RUN T	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
SHEET/TAPERED FLT									
10	0.2003	0.7173	304.	1987.	7206.	94.	-7039.	-3443.	0.106
21	0.68	-0.23	460.	2297.	7179.	9931.	601.	-1081.	0.125
			1200.	3398.	7537.	191.	-702.	3739.	0.007
10	0.2009	0.7195	406.	2356.	9015.	63.	-7267.	-3703.	0.139
22	0.71	0.06	670.	2751.	8553.	13393.	877.	-1610.	0.150
			1378.	3795.	8784.	507.	-490.	3544.	0.012
10	0.2008	0.7174	481.	2337.	9487.	44.	-7361.	-3692.	0.162
23	0.64	-0.01	709.	2825.	8950.	15523.	992.	-1734.	0.155
			1416.	3801.	9203.	644.	-408.	3605.	0.017
10	0.2012	0.7157	197.	1438.	6190.	129.	-7005.	-3423.	0.039
24	0.67	-0.17	334.	1615.	6178.	8480.	528.	-1035.	0.105
			881.	2424.	5692.	-78.	-529.	3414.	0.002
10	0.2007	0.7169	272.	1821.	6966.	92.	-7198.	-3622.	0.088
25	0.55	-0.18	314.	2047.	6767.	11793.	758.	-1450.	0.103
			1093.	2956.	6163.	242.	-389.	3269.	0.007
10	0.2009	0.7190	332.	2181.	8536.	59.	-7461.	-4089.	0.103
26	0.69	-0.03	299.	2435.	8143.	15617.	1075.	-2151.	0.136
			1350.	3481.	7515.	564.	-91.	2800.	0.009
11	0.2014	0.7161	207.	1468.	6242.	157.	-7113.	-3479.	0.032
2	0.87	0.86	450.	1621.	6267.	8733.	571.	5051.	0.060
			863.	2432.	5475.	-44.	-492.	3403.	0.001
11	0.2014	0.7150	272.	1847.	6956.	124.	-7324.	-3744.	0.083
3	0.66	0.77	399.	2040.	6845.	11936.	816.	4601.	0.063
			1015.	2972.	5774.	257.	-316.	3155.	0.004
11	0.2033	0.7142	340.	2135.	8388.	95.	-7563.	-4166.	0.121
4	0.61	0.98	324.	2337.	7994.	15633.	1092.	4004.	0.089
			1235.	3330.	6713.	578.	-106.	2866.	0.007
11	0.1999	0.7178	382.	2354.	8634.	79.	-7673.	-4351.	0.129
5	0.74	1.01	404.	2577.	8154.	17810.	1230.	3682.	0.092
			1476.	3615.	7028.	732.	22.	2698.	0.008

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
11	0.2006	0.7172	419.	2565.	9532.	62.	-7793.	-4501.	0.148
6	0.79	0.94	523.	2795.	8692.	20599.	1392.	3281.	0.063
			1616.	3850.	7758.	906.	176.	2562.	0.036
11	0.2005	0.7181	529.	2581.	9431.	44.	-7878.	-4442.	0.195
7	0.68	1.08	612.	2752.	8681.	23452.	1500.	3055.	0.077
			1659.	3795.	7983.	1056.	249.	2644.	0.041
11	0.1997	0.7190	666.	2387.	9968.	12.	-7919.	-3972.	0.279
8	0.77	1.08	808.	2464.	9170.	26751.	1549.	2378.	0.057
			1655.	3454.	8200.	1201.	296.	2991.	0.040
11	0.2010	0.7152	113.	1845.	4424.	369.	-5802.	-874.	0.033
9	0.17	0.19	177.	1944.	4832.	408.	-759.	6912.	0.053
			1404.	2413.	4091.	-1113.	-1940.	5509.	0.003
11	0.2004	0.7162	121.	1861.	4555.	352.	-5818.	-846.	0.030
10	-0.02	0.18	173.	1969.	4923.	-237.	-735.	6931.	0.048
			1343.	2467.	4151.	-1036.	-1957.	5610.	0.003
11	0.1996	0.7167	127.	1924.	4667.	332.	-5893.	-931.	0.045
11	0.18	0.09	205.	2036.	5063.	-695.	-653.	6825.	0.050
			1495.	2535.	4172.	-922.	-1917.	5616.	0.003
11	0.2006	0.7154	156.	2002.	6857.	287.	-6051.	-1211.	0.081
12	0.10	0.36	250.	2122.	7123.	-1637.	-466.	6430.	0.072
			1422.	2734.	5903.	-694.	-1824.	5499.	0.003
11	0.2016	0.7150	235.	2179.	6964.	236.	-6175.	-1488.	0.105
13	0.08	0.44	288.	2301.	6956.	-2113.	-332.	6101.	0.069
			1495.	2958.	5810.	-488.	-1771.	5457.	0.002
11	0.2019	0.7165	313.	2225.	9652.	194.	-6357.	-1686.	0.087
14	0.11	0.42	337.	2395.	9513.	-1809.	-135.	5878.	0.069
			1428.	3244.	8051.	-244.	-1661.	5487.	0.005
11	0.2021	0.7151	338.	2362.	10716.	172.	-6446.	-1786.	0.119
15	0.15	0.51	488.	2552.	10614.	-1420.	-41.	5772.	0.096
			1621.	3617.	9154.	-132.	-1533.	5472.	0.006

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
11	0.2510	0.7498	93.	2121.	4206.	336.	-5980.	-1534.	0.049
19	-0.04	0.08	149.	2377.	5295.	2941.	-546.	5572.	0.032
			1766.	3069.	4241.	-1182.	-1261.	4493.	0.012
11	0.2513	0.7494	107.	2092.	4838.	296.	-6174.	-1809.	0.024
20	0.17	0.07	167.	2345.	5717.	2863.	-350.	5290.	0.042
			1597.	2921.	4538.	-927.	-1140.	4418.	0.010
11	0.2510	0.7476	119.	2108.	5330.	258.	-6336.	-1972.	0.023
21	0.17	0.20	172.	2335.	6000.	3254.	-205.	5082.	0.044
			1508.	2888.	4714.	-671.	-1112.	4481.	0.008
11	0.2502	0.7491	177.	2168.	6424.	214.	-6484.	-2264.	0.073
22	0.03	0.19	337.	2432.	6756.	4056.	-62.	4846.	0.029
			1484.	3171.	5716.	-416.	-1093.	4506.	0.012
11	0.2505	0.7487	224.	2202.	7970.	170.	-6710.	-2597.	0.077
23	0.12	0.19	462.	2514.	8599.	5562.	168.	4383.	0.060
			1427.	3395.	7435.	-145.	-950.	4318.	0.010
11	0.2505	0.7503	292.	2393.	9090.	139.	-6881.	-2738.	0.140
24	0.07	0.31	657.	2637.	9529.	7639.	352.	4296.	0.053
			1399.	3879.	7883.	141.	-886.	4388.	0.017
11	0.2512	0.7502	485.	2598.	11181.	101.	-7107.	-2872.	0.159
25	0.09	0.39	760.	2825.	11020.	11029.	559.	4330.	0.074
			1629.	3984.	9391.	448.	-792.	4602.	0.018
11	0.2512	0.7481	634.	2769.	11710.	71.	-7193.	-2638.	0.203
26	0.11	0.45	756.	3094.	11825.	13370.	631.	4528.	0.094
			1939.	4183.	10011.	566.	-762.	4981.	0.023
11	0.2512	0.7482	203.	2001.	6725.	166.	-6965.	-3070.	0.053
27	0.11	0.23	435.	2241.	7260.	7899.	397.	4241.	0.054
			1278.	3147.	6389.	-129.	-637.	3897.	0.007
11	0.2502	0.7510	283.	2103.	8055.	130.	-7208.	-3417.	0.111
28	0.19	0.29	408.	2313.	8270.	10918.	634.	3828.	0.049
			1245.	3449.	7283.	182.	-506.	3808.	0.013

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / F7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / F7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
12	0.2009	0.7190	158.	1843.	6793.	286.	-5683.	-1597.	0.081
3	0.13	0.26	270.	2248.	7105.	-1655.	-477.	7231.	0.004
			1527.	2861.	5408.	-726.	-1815.	4978.	0.003
12	0.2008	0.7165	302.	1995.	9311.	193.	-5970.	-2155.	0.100
4	0.14	0.43	361.	2429.	9189.	-1819.	-134.	6628.	0.004
			1556.	3336.	7233.	-253.	-1625.	4904.	0.005
12	0.2003	0.7186	258.	1497.	7318.	174.	-6291.	-2868.	0.074
5	0.14	0.27	291.	2054.	7529.	5975.	231.	5802.	0.003
			1126.	3134.	6497.	-121.	-1069.	3994.	0.001
12	0.2504	0.7487	117.	1818.	4721.	272.	-5929.	-2241.	0.039
6	0.01	0.17	113.	2317.	5414.	3267.	-222.	6733.	0.002
			1631.	2890.	4048.	-690.	-1281.	4150.	0.009
12	0.2517	0.7480	234.	1990.	8187.	174.	-6269.	-2846.	0.073
7	0.19	0.35	460.	2552.	8783.	5554.	184.	5937.	0.003
			1421.	3418.	7019.	-151.	-1082.	3969.	0.011
12	0.2514	0.7478	211.	1789.	7147.	169.	-6505.	-3457.	0.054
8	-0.00	0.25	421.	2292.	7611.	7911.	403.	5395.	0.003
			1271.	3197.	6125.	-117.	-774.	3532.	0.007
12	0.2523	0.7474	289.	1835.	7988.	135.	-6705.	-3742.	0.102
9	0.04	0.38	369.	2411.	8309.	10615.	624.	4961.	0.003
			1269.	3484.	6599.	193.	-664.	3429.	0.012
12	0.2513	0.7488	347.	2088.	9890.	102.	-6932.	-4193.	0.146
10	0.09	0.29	453.	2609.	9631.	14126.	881.	4453.	0.003
			1411.	4049.	7564.	516.	-503.	3238.	0.017
12	0.2503	0.7507	483.	2188.	10676.	62.	-7125.	-4348.	0.212
11	0.15	0.41	639.	2738.	10753.	18683.	1104.	4318.	0.003
			1610.	4271.	8558.	823.	-344.	3356.	0.025
12	0.2514	0.7461	134.	1850.	5229.	227.	-6208.	-2842.	0.051
12	0.22	0.14	318.	2265.	5688.	5075.	71.	6495.	0.002
			1439.	2891.	4377.	-423.	-1061.	3920.	0.014

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
12	C.2502	0.7474	230.	1921.	7523.	175.	-6394.	-3148.	0.055
13	0.10	0.24	397.	2517.	8294.	6998.	282.	6155.	0.003
			1366.	3439.	6648.	-138.	-987.	3886.	0.008
12	0.2510	0.7494	298.	1949.	8609.	140.	-6608.	-3514.	0.100
14	0.09	0.34	459.	2577.	9181.	9371.	517.	5679.	0.003
			1335.	3842.	7253.	172.	-838.	3741.	0.014
12	0.2512	0.7496	386.	2279.	10788.	107.	-6810.	-3771.	0.155
15	0.22	0.39	594.	2885.	10968.	12793.	756.	5240.	0.004
			1516.	4106.	8505.	490.	-550.	3677.	0.023
12	C.2006	0.6581	70.	1476.	2977.	338.	-5773.	-2334.	0.024
16	0.07	0.01	158.	1861.	3852.	2492.	-508.	6345.	0.000
			1407.	2320.	3073.	-1005.	-1295.	3591.	0.007
12	0.2013	0.6575	94.	1519.	3530.	264.	-5990.	-2563.	0.030
17	0.05	0.09	119.	1838.	4065.	2753.	-220.	5927.	0.001
			1267.	2280.	3322.	-526.	-1158.	3588.	0.004
12	0.1997	0.6581	144.	1543.	5453.	220.	-6158.	-2912.	0.054
18	0.10	0.24	252.	1927.	5940.	3637.	-11.	5478.	0.001
			1117.	2714.	4966.	-279.	-1017.	3431.	0.001
12	0.2007	0.6587	235.	1540.	7778.	178.	-6278.	-3030.	0.071
19	0.17	0.24	265.	1976.	7902.	4958.	156.	5189.	0.002
			1174.	3079.	6376.	-44.	-921.	3359.	0.008
12	0.2012	0.6594	289.	1750.	8181.	146.	-6427.	-3170.	0.108
20	0.15	0.42	438.	2202.	8504.	6787.	361.	4898.	0.003
			1188.	3291.	7195.	251.	-775.	3282.	0.014
12	0.2013	0.6576	124.	1477.	4826.	222.	-6259.	-3145.	0.042
21	0.13	0.23	260.	1791.	5249.	4285.	100.	5234.	0.001
			1075.	2580.	4542.	-280.	-845.	3241.	0.002
12	0.1995	0.6595	232.	1562.	7302.	173.	-6444.	-3471.	0.073
22	0.26	0.20	294.	1811.	7329.	6045.	323.	4808.	0.002
			1113.	2927.	6066.	7.	-699.	3091.	0.008

SWEPT/TAPERED TIP

BL1

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
12	0.2002	0.6599	306.	1828.	7593.	139.	-6613.	-3701.	0.099
23	0.13	0.44	489.	2249.	7790.	8085.	559.	4364.	0.003
			1246.	3185.	6594.	297.	-533.	2939.	0.009
12	0.2011	0.6589	377.	2194.	9516.	110.	-6794.	-3936.	0.127
24	0.09	0.40	721.	2749.	9390.	10764.	793.	3906.	0.004
			1476.	3626.	7733.	579.	-357.	2793.	0.013
12	0.2011	0.6570	110.	1331.	4156.	221.	-6355.	-3387.	0.035
25	0.17	0.13	243.	1626.	4623.	4692.	198.	4969.	0.001
			982.	2336.	3932.	-246.	-687.	3000.	0.000
12	0.1994	0.6589	222.	1573.	6993.	175.	-6526.	-3657.	0.077
26	0.12	0.16	320.	1832.	6999.	6577.	403.	4602.	0.002
			1061.	2812.	5670.	42.	-572.	2883.	0.004
12	0.2001	0.6588	279.	1839.	8025.	142.	-6712.	-3917.	0.102
27	0.11	0.31	372.	2201.	8045.	8987.	642.	4164.	0.003
			1254.	3251.	6365.	352.	-414.	2710.	0.007
12	0.1996	0.6590	341.	2271.	9353.	111.	-6904.	-4223.	0.128
28	0.12	0.35	656.	2741.	9027.	11872.	898.	3630.	0.005
			1475.	3805.	6999.	642.	-189.	2468.	0.005
12	0.2007	0.6606	453.	2441.	9550.	77.	-7124.	-4571.	0.153
29	0.26	0.41	747.	2964.	8974.	15594.	1169.	3122.	0.006
			1765.	4202.	7492.	941.	39.	2251.	0.005
14	0.3007	0.7802	114.	2591.	4895.	350.	-5764.	-1646.	0.100
3	0.07	0.06	180.	3050.	5929.	3045.	-554.	6647.	0.002
			2099.	3867.	4885.	-1330.	-1472.	4436.	0.014
14	0.3020	.7773	101.	2670.	5517.	309.	-5926.	-1861.	0.076
4	0.04	0.02	238.	3056.	6180.	2941.	-422.	6460.	0.003
			2155.	3696.	4479.	-1024.	-1428.	4413.	0.012
14	0.3036	0.7749	115.	2675.	5986.	272.	-6040.	-1939.	0.073
5	0.10	0.11	279.	3005.	5986.	3221.	-337.	6497.	0.004
			2213.	3554.	4738.	-783.	-1442.	4538.	0.015

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
14	0.2998	0.7809	165.	2694.	7514.	222.	-6237.	-2268.	0.051
6	0.18	0.25	410.	3026.	7552.	4139.	-156.	6249.	0.003
			2098.	3692.	6037.	-520.	-1358.	4522.	0.018
14	0.3008	0.7807	246.	2867.	9292.	181.	-6410.	-2313.	0.057
7	0.14	0.14	492.	3091.	9246.	5710.	9.	6115.	0.004
			1990.	4093.	7270.	-280.	-1301.	4574.	0.018
14	0.2989	0.7839	344.	3005.	10842.	1[illegible].	-6635.	-2660.	0.100
8	0.04	0.46	547.	3315.	10396.	7680.	229.	5780.	0.003
			2023.	4451.	7722.	[illegible].	-1196.	4484.	0.024
14	0.3003	0.7818	482.	3332.	14140.	99.	-6836.	-2982.	0.135
9	0.10	0.59	754.	3852.	13537.	10955.	463.	5418.	0.005
			2147.	4692.	10128.	304.	-932.	4400.	0.025
14	0.3003	0.7813	119.	2250.	5639.	223.	-6481.	-2839.	0.061
10	0.15	0.14	367.	2502.	6040.	5705.	121.	5757.	0.003
			1723.	3091.	4964.	-506.	-823.	3782.	0.012
14	0.2997	0.7818	218.	2417.	7835.	181.	-6674.	-2987.	0.051
11	0.05	0.34	507.	2676.	8072.	7922.	288.	5612.	0.004
			1638.	3325.	6448.	-252.	-739.	3793.	0.015
14	0.3009	0.7802	309.	2427.	8592.	146.	-6897.	-3295.	0.083
12	0.26	0.25	530.	2798.	8677.	10671.	483.	5251.	0.003
			1715.	3689.	6515.	99.	-656.	3685.	0.023
14	0.2996	0.7802	346.	2781.	10498.	113.	-7103.	-3652.	0.134
13	0.09	0.08	460.	3334.	10458.	13870.	699.	4834.	0.003
			1765.	4112.	8193.	408.	-500.	3506.	0.033
14	0.3003	0.7817	464.	2948.	12618.	65.	-7301.	-3814.	0.178
14	0.08	0.15	702.	3638.	12400.	18730.	924.	4613.	0.004
			1863.	4661.	9618.	704.	-336.	3484.	0.036
14	0.2999	0.7809	578.	2966.	12439.	18.	-7382.	-3600.	0.208
15	0.28	0.16	652.	3815.	12641.	21873.	988.	4628.	0.004
			1941.	4804.	9835.	796.	-284.	3819.	0.036

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TI 4 ACC / LN4 ACC
14	0.2998	0.7814	353.	2301.	9111.	103.	-7222.	-3639.	0.111
16	3.35	-0.13	582.	2731.	9055.	15357.	823.	4583.	0.003
			1582.	3439.	7130.	424.	-205.	3167.	0.032
14	0.3010	0.7795	218.	2828.	6844.	183.	-6541.	-2649.	0.077
17	-2.92	0.22	538.	3098.	8760.	7196.	138.	5926.	0.003
			1910.	4042.	7325.	-186.	-1034.	4279.	0.021
14	0.3012	0.7779	169.	1775.	5812.	173.	-6890.	-3490.	0.035
18	0.25	-0.05	420.	1997.	6069.	7483.	544.	4869.	0.004
			1181.	2618.	5031.	-296.	-270.	3056.	0.013
14	0.3008	0.7790	263.	1913.	6687.	138.	-7063.	-3576.	0.068
19	0.26	-0.02	383.	2190.	6749.	11344.	699.	4726.	0.003
			1281.	2883.	5409.	52.	-218.	3092.	0.027
14	0.3012	0.7798	326.	2154.	8412.	107.	-7248.	-3753.	0.102
20	0.12	0.07	369.	2526.	8385.	15697.	887.	4452.	0.003
			1466.	3283.	6675.	352.	-113.	2985.	0.035
15	0.3015	0.7783	189.	1881.	6411.	174.	-6710.	-3371.	0.046
3	0.04	0.09	403.	2227.	6738.	8057.	461.	4728.	0.098
			1354.	3068.	5423.	-233.	-556.	3209.	0.006
15	0.3008	0.7809	235.	1938.	6696.	158.	-6796.	-3392.	0.067
4	0.02	0.20	414.	2297.	6718.	9608.	537.	4740.	0.071
			1408.	3164.	5317.	-68.	-532.	3254.	0.011
15	0.3001	0.7813	272.	1989.	7498.	142.	-6899.	-3496.	0.086
5	0.18	0.36	349.	2383.	7426.	11358.	635.	4621.	0.069
			1408.	3231.	5565.	90.	-461.	3211.	0.014
15	0.3010	0.7804	329.	2326.	9227.	111.	-7108.	-3703.	0.106
6	0.03	0.21	450.	2863.	9292.	15209.	852.	4353.	0.100
			1535.	3699.	6900.	388.	-293.	2968.	0.017
15	0.3016	0.7794	386.	2520.	10530.	79.	-7347.	-4075.	0.140
7	0.19	0.39	657.	3214.	10508.	19612.	1096.	3892.	0.111
			1763.	4158.	7892.	735.	-143.	2710.	0.023

SWEPT/TAPERED TIP

-B14-

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
15	0.2957	0.7813	437.	2578.	11536.	56.	-7452.	-4112.	0.164
8	0.17	0.51	776.	3333.	11277.	22380.	1192.	3986.	0.098
			1770.	4372.	8436.	900.	-108.	2885.	0.028
15	0.3016	0.7785	143.	2728.	6354.	364.	-5469.	-648.	0.051
9	0.14	0.18	210.	3099.	6738.	958.	-850.	8277.	0.080
			2450.	3530.	5032.	-1326.	-2110.	5277.	0.007
15	0.3020	0.7785	172.	2836.	6958.	329.	-5568.	-847.	0.037
10	0.07	0.24	252.	3173.	7308.	-239.	-769.	8170.	0.099
			2482.	3717.	5493.	-1113.	-2127.	5323.	0.007
15	0.3025	0.7778	196.	2879.	9454.	282.	-5790.	-1461.	0.020
11	0.20	0.33	360.	3193.	9518.	-825.	-525.	7541.	0.126
			2391.	4008.	7095.	-859.	-1949.	5030.	0.008
15	0.3011	0.7788	276.	3028.	10428.	224.	-5939.	-1958.	0.033
12	0.21	0.34	517.	3324.	10109.	-807.	-363.	7140.	0.104
			2462.	4152.	7318.	-667.	-1956.	4899.	0.037
15	0.3011	0.7797	366.	3235.	15072.	171.	-6091.	-2342.	0.070
13	0.14	0.42	694.	3711.	14616.	-444.	-165.	6807.	0.119
			2500.	4774.	10837.	-456.	-1738.	4810.	0.033
15	0.3011	0.7802	502.	3622.	17597.	109.	-6259.	-2784.	0.095
14	-0.01	0.53	809.	3980.	16436.	1396.	36.	6327.	0.119
			2405.	4990.	12103.	-223.	-1553.	4587.	0.040
15	0.3022	0.7791	626.	3716.	19327.	64.	-6372.	-2662.	0.172
15	0.12	0.47	687.	4183.	17645.	3944.	129.	6504.	0.113
			2336.	5031.	13024.	-78.	-1491.	4897.	0.035
17	0.4004	0.8415	156.	3824.	7511.	281.	-5802.	-1465.	0.195
3	0.12	0.14	225.	3961.	7744.	3337.	-547.	6906.	0.065
			3484.	5316.	6503.	-1533.	-810.	4458.	0.014
17	0.4026	0.8393	200.	3928.	7929.	246.	-5984.	-1851.	0.157
4	0.19	0.14	276.	4125.	8398.	3082.	-407.	6572.	0.082
			3445.	5430.	6705.	-1219.	-714.	4356.	0.018

SWEPT/TAPERED TIP

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
17	0.4019	0.8416	146.	3751.	8221.	224.	-6127.	-2051.	0.144
5	0.09	0.21	365.	4004.	8592.	3250.	-269.	6508.	0.100
			3231.	5256.	7325.	-980.	-618.	4321.	0.021
17	0.4004	0.8433	184.	3750.	10775.	175.	-6293.	-2298.	0.132
6	0.08	0.27	631.	4048.	10810.	4082.	-93.	6252.	0.093
			3042.	5199.	8902.	-747.	-481.	4138.	0.024
17	0.3999	0.8436	246.	4060.	14282.	143.	-6428.	-2216.	0.158
7	0.15	0.27	909.	4155.	13999.	5361.	65.	6217.	0.105
			3091.	5373.	11263.	-530.	-342.	4160.	0.036
17	0.4011	0.8424	340.	4236.	17041.	112.	-6627.	-2477.	0.237
8	0.09	0.30	1044.	4368.	16043.	7524.	266.	5985.	0.086
			2972.	5984.	12840.	-226.	-215.	4069.	0.049
17	0.4001	0.8418	371.	4359.	18708.	92.	-6714.	-2519.	0.297
9	-0.01	0.30	1057.	4487.	17564.	9103.	339.	6059.	0.086
			2979.	5990.	13536.	-79.	-156.	4124.	0.057
17	0.4011	0.8422	449.	4614.	21540.	57.	-6806.	-2286.	0.334
10	0.24	0.37	1445.	4773.	20415.	11908.	420.	6518.	0.077
			3201.	6239.	15802.	68.	-144.	4494.	0.062
17	0.401[illegible]	0.8399	207.	2840.	8945.	142.	-6699.	-2853.	0.063
11	0.16	0.11	670.	3093.	9201.	7720.	308.	6282.	0.083
			2296.	4060.	7680.	-430.	162.	3549.	0.019
17	0.4086	0.8320	290.	32[illegible].	11569.	113.	-6877.	-2927.	0.096
12	0.28	0.28	1053.	3410.	11598.	10599.	514.	6042.	0.078
			2588.	4434.	9230.	-182.	365.	3317.	0.038
17	0.4008	0.8415	357.	3583.	13730.	81.	-7083.	-3096.	0.163
13	0.05	0.25	1249.	3732.	13400.	13939.	711.	5751.	0.083
			2625.	4870.	10426.	140.	469.	3175.	0.051
17	0.4020	0.8411	402.	3821.	15480.	70.	-7182.	-3279.	0.237
14	0.04	0.44	1314.	4059.	15105.	15634.	822.	5490.	0.094
			2753.	5345.	11858.	308.	597.	2933.	0.047

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
17	0.4027	0.8396	463.	3806.	16585.	46.	-7291.	-3207.	0.291
15	0.07	0.20	1366.	3985.	15811.	18308.	918.	5537.	0.077
			2768.	5244.	12634.	456.	631.	3093.	0.043
17	0.4031	0.8402	533.	4206.	20215.	20.	-7367.	-2854.	0.367
16	0.10	0.65	1751.	4353.	19255.	21310.	991.	5514.	0.103
			3144.	5832.	15356.	598.	561.	3507.	0.045
19	0.4009	0.8409	224.	2677.	9505.	152.	-6305.	-3062.	0.056
3	0.09	-0.05	659.	3208.	9706.	7683.	359.	4971.	0.099
			2498.	4174.	8192.	-329.	-380.	3391.	0.035
19	0.4011	0.8420	298.	2990.	11545.	124.	-6448.	-3065.	0.102
4	-0.03	0.28	843.	3601.	11706.	10358.	533.	4919.	0.102
			2551.	4762.	9718.	-56.	-170.	3873.	0.048
19	0.4025	0.8384	552.	3589.	19933.	20.	-6887.	-3103.	0.368
5	0.07	0.30	1726.	4343.	18811.	20841.	1029.	4903.	0.122
			2994.	5841.	15473.	729.	148.	6530.	0.048
19	0.4013	0.8413	475.	2883.	13439.	36.	-7005.	-3939.	0.239
6	3.40	-0.14	1391.	3565.	12791.	20043.	1198.	3910.	0.102
			2510.	4835.	10409.	707.	499.	6066.	0.063
19	0.4009	0.8432	329.	3774.	16030.	114.	-6335.	-2934.	0.196
7	-3.02	0.74	1135.	4472.	15517.	10157.	457.	5524.	0.086
			3008.	5719.	12251.	-54.	-444.	9750.	0.061
19	0.4011	0.8421	409.	3358.	15551.	75.	-6708.	-3422.	0.202
8	0.15	0.19	1230.	4061.	15152.	15795.	878.	4870.	0.096
			2775.	5394.	11979.	397.	83.	9226.	0.061
19	0.4012	0.8410	541.	4166.	23455.	28.	-6421.	-2155.	0.295
9	0.22	0.37	1578.	4938.	22061.	14285.	518.	6539.	0.089
			3464.	6558.	16955.	252.	-605.	7469.	0.056
19	0.4008	0.8421	641.	4429.	23184.	-16.	-6440.	-1765.	0.366
10	0.14	0.33	1532.	5205.	21759.	17945.	496.	6950.	0.092
			3770.	6426.	16633.	429.	-856.	3840.	0.057

SWEPT/TAPERED TIP

RUN / PT	V/OR B1C	MAT B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	MV4 ACC / TL4 ACC / LN4 ACC
19	0.4021	0.8407	356.	2603.	11480.	82.	-6774.	-3678.	0.157
11	0.12	-0.05	973.	3175.	11186.	14403.	966.	5321.	0.076
			2215.	4267.	9239.	274.	376.	-814.	0.032
19	0.4031	0.8400	398.	2713.	12575.	68.	-6859.	-3788.	0.186
12	0.18	0.19	1046.	3316.	12156.	16543.	1061.	5245.	0.077
			2266.	4449.	10075.	416.	451.	-1473.	0.041
19	0.4014	0.8417	446.	2961.	14040.	50.	-6879.	-3688.	0.230
13	0.16	0.22	1121.	3676.	13628.	18806.	1108.	5356.	0.075
			2466.	5010.	11067.	527.	496.	-2214.	0.052
19	0.4009	0.8427	486.	3057.	16044.	38.	-6998.	-3700.	0.281
14	0.29	0.25	1336.	3788.	15389.	21629.	1241.	5339.	0.087
			2624.	5241.	12535.	720.	637.	-3327.	0.059
19	0.4014	0.8425	584.	3225.	18149.	7.	-7018.	-3092.	0.323
15	0.22	0.38	751.	4021.	17539.	24477.	1265.	5835.	0.094
			2360.	5632.	14147.	832.	624.	-3847.	0.063
19	0.4005	0.8441	622.	3282.	18064.	-29.	-7107.	-2712.	0.350
16	0.14	0.36	0.	4110.	17528.	24756.	1337.	6010.	0.098
			2994.	5701.	14392.	1023.	670.	-3699.	0.066
19	0.4004	0.8399	218.	3404.	9300.	312.	-5270.	-859.	0.147
17	-0.08	0.06	420.	4008.	8677.	411.	-779.	8753.	0.069
			3484.	5081.	6983.	-1453.	-1602.	-2287.	0.032
19	0.4004	0.8428	216.	3456.	11474.	273.	-5390.	-1230.	0.103
18	0.07	0.21	545.	4063.	10907.	-656.	-627.	8450.	0.068
			3580.	5143.	8737.	-1277.	-1527.	-2741.	0.036
19	0.4021	0.8413	255.	3538.	13656.	220.	-5574.	-1963.	0.027
19	0.26	0.14	646.	4060.	13185.	-1083.	-383.	7673.	0.085
			3517.	5321.	10448.	-1067.	-1277.	-3504.	0.051
19	0.4012	0.8411	331.	3970.	16800.	164.	-5698.	-2390.	0.085
20	0.20	0.31	998.	4540.	15644.	-1082.	-208.	7791.	0.062
			3568.	5916.	11944.	-895.	-1101.	-4149.	0.036

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
19	0.4006	0.8425	416.	4110.	21369.	103.	-5795.	-2359.	0.154
21	0.20	0.25	1244.	4724.	20079.	272.	-86.	7112.	0.050
			3535.	6127.	15950.	-686.	-1047.	-4636.	0.023
19	0.3986	0.8457	544.	4345.	23569.	62.	-5842.	-2103.	0.229
22	-0.05	0.28	1536.	4847.	21549.	1711.	-54.	7350.	0.073
			3562.	6317.	16483.	-597.	-1082.	-4493.	0.020
19	0.3750	0.8242	286.	2283.	8086.	86.	-6328.	-3194.	0.065
23	0.19	0.05	538.	2742.	8278.	7892.	437.	5944.	0.058
			1880.	3608.	6809.	-278.	-189.	-6199.	0.011
19	0.3761	0.8235	347.	2666.	10870.	67.	-6474.	-3274.	0.099
24	0.08	0.29	820.	3188.	10931.	10743.	622.	5556.	0.068
			2145.	4170.	8699.	-10.	-41.	-6187.	0.026
19	0.3755	0.8236	356.	2819.	12426.	54.	-6633.	-3430.	0.166
25	0.30	0.10	857.	3434.	12228.	14425.	807.	5230.	0.062
			2140.	4633.	9602.	350.	97.	-6436.	0.030
19	0.3738	0.8267	457.	3189.	17834.	34.	-6799.	-3257.	0.246
26	0.11	0.27	1389.	3859.	17051.	18900.	1017.	5296.	0.072
			2563.	5176.	13745.	578.	264.	-6558.	0.057
19	0.3735	0.8272	700.	3326.	17985.	-38.	-6882.	-2361.	0.357
27	-0.02	0.29	39.	4062.	17392.	24753.	1069.	6298.	0.072
			2690.	5304.	14081.	922.	211.	-5918.	0.074
19	0.3727	0.8281	565.	3207.	17916.	6.	-6845.	-2803.	0.296
28	0.21	0.30	1619.	3956.	16992.	22236.	1049.	5762.	0.075
			2574.	5326.	13510.	770.	293.	-6439.	0.058
19	0.3738	0.8271	129.	2832.	6330.	311.	-5587.	-1730.	0.138
29	0.05	0.05	271.	3402.	6847.	3302.	-405.	7538.	0.034
			2696.	4248.	5438.	-1332.	-981.	-5550.	0.012
19	0.3752	0.8246	143.	2646.	6578.	267.	-5674.	-1882.	0.120
30	0.15	-0.18	246.	3268.	6764.	3149.	-315.	7315.	0.048
			2585.	4220.	5654.	-1082.	-970.	-5491.	0.010

SWEPT/TAPERED TIP

-B19-

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
19	0.3734	0.8269	145.	2726.	7264.	221.	-5812.	-2152.	0.106
31	0.21	0.01	366.	3395.	7143.	3649.	-167.	7073.	0.043
			2620.	4265.	6013.	-844.	-875.	-5635.	0.015
19	0.3752	0.8243	209.	2835.	9686.	173.	-5952.	-2344.	0.092
32	0.27	0.12	601.	3433.	9386.	4463.	-1.	6659.	0.049
			2553.	4330.	7527.	-611.	-751.	-5864.	0.018
19	0.3738	0.8264	250.	3040.	12399.	128.	-6126.	-2497.	0.065
33	0.44	0.28	723.	3511.	12140.	6017.	219.	6374.	0.066
			2487.	4594.	9711.	-349.	-558.	-6124.	0.021
19	0.3738	0.8270	351.	3334.	15431.	104.	-6256.	-2680.	0.120
34	0.34	0.29	965.	3916.	14854.	8147.	393.	6132.	0.061
			2621.	5139.	11676.	-96.	-412.	-6263.	0.033
19	0.3731	0.8254	517.	3555.	20255.	54.	-6407.	-2503.	0.225
35	0.25	0.31	1406.	4151.	18948.	12251.	555.	6227.	0.067
			2845.	5508.	14671.	175.	-307.	-6008.	0.048
20	0.3605	0.8182	446.	3402.	16933.	173.	-6675.	-3258.	0.184
3	0.29	0.42	1181.	4093.	16186.	14557.	801.	4382.	0.124
			2542.	5365.	12137.	382.	-174.	-2073.	0.045
20	0.3625	0.8136	443.	3224.	15388.	177.	-6722.	-3343.	0.176
4	1.24	0.37	1079.	3963.	14902.	14834.	845.	4278.	0.128
			2466.	5232.	11512.	399.	-95.	-1503.	0.041
20	0.3631	0.8126	443.	3312.	16541.	161.	-6720.	-3185.	0.195
5	1.09	0.31	1212.	4013.	15791.	15630.	845.	4515.	0.133
			2535.	5245.	11978.	433.	-107.	-1718.	0.044
20	0.3653	0.8080	454.	3412.	17427.	177.	-6634.	-3115.	0.196
6	0.13	0.44	1217.	4074.	16600.	14037.	760.	4663.	0.141
			2522.	5334.	12474.	317.	-181.	-664.	0.049
20	0.3645	0.8095	439.	3054.	14193.	176.	-6663.	-3270.	0.153
7	1.06	0.23	1063.	3701.	13646.	13505.	767.	4608.	0.122
			2378.	4859.	10263.	306.	-177.	-359.	0.038

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / E7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
21	0.3764	0.8255	521.	3804.	20591.	1[illegible]	-[illegible]367.	-2544.	0.241
3	0.16	0.49	1453.	4520.	19335.	12039.	401.	5035.	0.119
			3076.	5776.	15441.	184.	-589.	16550.	0.057
21	0.3786	0.8220	593.	3995.	21551.	56.	-6384.	-1973.	0.245
4	0.13	0.42	1394.	4731.	20302.	14881.	382.	5858.	0.138
			3077.	6024.	15580.	297.	-586.	18749.	0.047
21	0.3753	0.8263	334.	2327.	9460.	133.	-6805.	-3635.	0.130
5	0.21	0.30	777.	2884.	9454.	14463.	928.	4201.	0.107
			1826.	3791.	7940.	184.	339.	16967.	0.034
21	0.3770	0.8264	403.	2485.	11237.	98.	-6988.	-3931.	0.194
6	0.17	0.29	982.	3125.	10818.	19362.	1136.	3826.	0.106
			2003.	4196.	8800.	564.	499.	16429.	0.030
21	0.3749	0.8278	478.	2752.	14779.	74.	-7173.	-4027.	0.259
7	-0.01	0.47	1393.	3485.	14225.	24671.	1348.	3625.	0.133
			2275.	4685.	11650.	902.	637.	15500.	0.024
21	0.3746	0.8267	431.	2598.	12779.	80.	-7049.	-3928.	0.237
8	0.06	0.32	1127.	3257.	12264.	21997.	1206.	3943.	0.102
			2142.	4415.	10105.	698.	498.	17032.	0.025
21	0.3757	0.8218	255.	1859.	6670.	164.	-6655.	-3562.	0.060
9	0.20	0.21	462.	2328.	6904.	9938.	760.	4759.	0.069
			1515.	3160.	5888.	-70.	181.	18303.	0.030
21	0.3753	0.8272	436.	2592.	12781.	85.	-7062.	-4000.	0.232
10	0.16	0.35	1174.	3276.	12353.	22089.	1232.	3988.	0.102
			2204.	4424.	10194.	706.	522.	17660.	0.027
21	0.4007	0.8420	314.	1911.	7046.	134.	-6604.	-3384.	0.040
11	0.03	0.20	621.	2366.	7123.	9530.	732.	5123.	0.065
			1788.	3112.	6082.	-162.	95.	18802.	0.030
21	0.3998	0.8418	369.	2021.	8198.	30.	-6802.	-3638.	0.101
12	0.24	0.24	725.	2478.	8013.	13930.	939.	4938.	0.063
			1790.	3360.	6857.	177.	250.	18578.	0.039

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21	0.4014	0.8412	394.	2511.	11635.	68.	-6972.	-3829.	0.187
13	0.25	0.14	1187.	3129.	11428.	18822.	1150.	4597.	0.099
			2204.	4227.	9557.	486.	444.	18143.	0.028
21	0.4007	0.8425	450.	2623.	12395.	72.	-7038.	-3879.	0.217
14	0.36	0.41	1215.	3322.	12025.	21636.	1229.	4546.	0.091
			2315.	4597.	9901.	637.	543.	17908.	0.029
21	0.3979	0.8453	493.	2757.	14059.	69.	-7128.	-3920.	0.259
15	0.02	0.36	1422.	3530.	13601.	24516.	1334.	4490.	0.098
			2439.	4895.	11271.	803.	623.	18368.	0.027
21	0.3758	0.8941	136.	3320.	6716.	345.	-5438.	-851.	0.197
16	0.05	0.03	350.	4150.	7873.	4218.	-580.	9754.	0.005
			3404.	5342.	8453.	-1583.	-1342.	18224.	0.025
21	0.3756	0.8953	176.	3512.	7576.	274.	-5515.	-984.	0.198
17	0.18	0.08	385.	4378.	8774.	3975.	-511.	9763.	0.008
			3471.	5409.	8826.	-1344.	-1309.	16664.	0.029
21	0.3760	0.8958	162.	3562.	7736.	246.	-5686.	-1345.	0.207
18	0.17	0.21	518.	4329.	9162.	4369.	-308.	9466.	0.012
			3339.	5351.	9764.	-1064.	-1155.	13696.	0.035
21	0.3758	0.8954	204.	3588.	9167.	202.	-5830.	-1571.	0.188
19	0.13	0.22	645.	4364.	10096.	5201.	-136.	9173.	0.016
			3299.	5253.	10512.	-789.	-1047.	11500.	0.035
21	0.3764	0.8950	298.	3630.	12447.	161.	-5952.	-1638.	0.161
20	0.11	0.36	1046.	4359.	12480.	6717.	33.	9020.	0.031
			3387.	5270.	11442.	-577.	-894.	8898.	0.033
21	0.3766	0.8940	404.	3544.	15221.	122.	-6155.	-1987.	0.110
21	0.23	0.30	1506.	4111.	14956.	9819.	280.	8595.	0.041
			3307.	5096.	12820.	-272.	-684.	7989.	0.038
21	0.3748	0.8972	529.	3725.	17760.	52.	-6192.	-1817.	0.133
22	-0.00	0.35	1701.	4311.	17295.	11947.	315.	8831.	0.054
			3551.	5313.	14179.	-150.	-714.	6130.	0.049

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
21	0.3766	0.8946	547.	3632.	19182.	99.	-6279.	-1812.	0.130
23	0.08	0.53	1892.	4183.	18758.	13591.	413.	8791.	0.057
			3529.	5225.	15244.	-61.	-573.	3244.	0.053
21	0.3769	0.8939	250.	2634.	7462.	117.	-6198.	-2285.	0.177
24	0.26	0.16	837.	3216.	8180.	9412.	311.	8478.	0.015
			2517.	4114.	7671.	-517.	-357.	2070.	0.031
21	0.3753	0.8951	290.	2943.	9691.	97.	-6359.	-2334.	0.141
25	0.10	0.20	1274.	3517.	10324.	12920.	506.	8236.	0.026
			2854.	4553.	9275.	-204.	-195.	1724.	0.034
21	0.3751	0.8963	375.	3200.	12381.	71.	-6564.	-2425.	0.116
26	-0.01	0.35	1500.	3742.	12580.	17235.	755.	7934.	0.033
			3050.	4739.	10429.	134.	64.	1482.	0.038
21	0.3762	0.8954	422.	3266.	13914.	67.	-6691.	-2552.	0.102
27	0.07	0.32	1649.	3808.	14058.	19978.	916.	7724.	0.038
			3097.	4762.	11448.	304.	294.	911.	0.044
21	0.3764	0.8950	493.	3568.	15990.	61.	-6726.	-2154.	0.124
28	0.08	0.39	1724.	4097.	16120.	23380.	952.	8126.	0.041
			3255.	4899.	13344.	429.	345.	1053.	0.052
21	0.3765	0.8951	527.	3513.	16358.	41.	-6753.	-1986.	0.135
29	0.09	0.32	1937.	4063.	16522.	25013.	980.	8299.	0.044
			3254.	4912.	13613.	504.	451.	1628.	0.053
21	0.3778	0.8920	316.	2462.	8405.	107.	-6586.	-2677.	0.110
30	3.33	0.03	1191.	2912.	8842.	15320.	765.	7782.	0.023
			2635.	3803.	7987.	-41.	457.	893.	0.031
21	0.3757	0.8976	340.	2318.	9099.	77.	-6731.	-2828.	0.090
31	4.63	0.01	1444.	2722.	9277.	17965.	940.	7626.	0.029
			2592.	3553.	7783.	127.	601.	745.	0.035
21	0.3753	0.8970	317.	2116.	8148.	74.	-6745.	-3065.	0.085
32	0.01	0.21	1095.	2590.	8483.	17757.	956.	7411.	0.019
			2226.	3491.	7520.	69.	657.	808.	0.029

SWEPT/TAPERED TIP

RUN / PT	V/OR / BIC	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
21	0.3769	0.8965	355.	2293.	9073.	56.	-6841.	-3073.	0.075
33	0.13	0.41	1221.	2821.	9290.	20787.	1084.	7257.	0.022
			2355.	3663.	8007.	217.	805.	793.	0.034
21	0.3757	0.8962	398.	2341.	10203.	38.	-6957.	-3165.	0.056
34	0.30	0.22	1332.	2846.	10199.	23812.	1239.	6983.	0.023
			2424.	3723.	8969.	397.	971.	565.	0.038
21	0.3748	0.8989	446.	2548.	11409.	34.	-7034.	-3065.	0.059
35	0.09	0.33	946.	3077.	11833.	27009.	1327.	6994.	0.030
			2629.	4033.	10351.	571.	1030.	739.	0.047
21	0.3759	0.8958	472.	2654.	11832.	30.	-7056.	-2975.	0.052
36	-0.07	0.14	2.	3158.	12097.	27290.	1348.	7017.	0.032
			2663.	4049.	10454.	645.	1020.	729.	0.048
21	0.3755	0.8950	222.	1956.	6109.	113.	-6541.	-2854.	0.135
37	0.01	0.22	897.	2433.	6779.	12065.	734.	7700.	0.018
			1953.	3372.	6163.	-308.	501.	1192.	0.027
22	0.3006	0.7840	323.	2332.	7696.	8.	-6253.	-2837.	0.046
3	0.11	0.23	471.	2741.	7709.	6466.	189.	5644.	0.085
			1816.	3394.	5640.	-280.	-827.	6888.	0.018
22	0.3030	0.7797	317.	2450.	9274.	-4.	-6379.	-2913.	0.070
4	0.08	0.27	493.	2990.	9137.	8279.	318.	5563.	0.077
			1881.	3909.	6983.	-33.	-797.	7177.	0.022
22	0.3024	0.7818	326.	2631.	10730.	-9.	-6526.	-3103.	0.103
5	0.16	0.54	515.	3299.	10454.	10550.	489.	5381.	0.060
			1927.	4280.	7721.	224.	-685.	7553.	0.027
22	0.3021	0.7822	184.	2260.	7773.	117.	-6290.	-2864.	0.049
6	-2.95	0.64	415.	2764.	7801.	7236.	245.	5874.	0.077
			1725.	3508.	6352.	-288.	-677.	7876.	0.008
22	0.3029	0.7796	308.	2419.	8698.	27.	-6471.	-3218.	0.101
7	-2.97	0.78	437.	3002.	8488.	9344.	430.	5533.	0.034
			1824.	3758.	6653.	18.	-571.	8401.	0.016

SWEPT/TAPERED TIP

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RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
22	0.3030	0.7796	312.	2498.	8544.	31.	-6412.	-2884.	0.086
R	-3.34	-1.46	474.	3131.	8614.	8916.	373.	5866.	0.050
			1843.	3943.	6694.	-29.	-629.	8749.	0.015
22	0.3038	0.7782	291.	2632.	10186.	1.	-6582.	-3389.	0.128
9	-3.06	0.81	461.	3305.	10070.	11440.	570.	5415.	0.045
			1886.	4204.	7737.	225.	-465.	8838.	0.021
22	0.3027	0.7786	153.	2440.	6454.	105.	-6259.	-2664.	0.034
10	-6.99	0.78	658.	2917.	6976.	7251.	232.	6308.	0.061
			1780.	3747.	6018.	-300.	-693.	9569.	0.025
22	0.3037	0.7787	232.	2400.	7480.	104.	-6287.	-2613.	0.031
11	-7.13	-1.09	837.	2957.	7531.	7178.	267.	6313.	0.059
			1793.	3629.	6191.	-311.	-635.	9647.	0.028
22	0.3030	0.7783	192.	2524.	7933.	77.	-6446.	-2914.	0.075
12	-6.41	-0.84	789.	3202.	7774.	10066.	431.	6060.	0.036
			1818.	4213.	6688.	6.	-550.	9684.	0.031
22	0.3033	0.7782	200.	2412.	7744.	73.	-6505.	-3234.	0.085
13	-6.12	1.01	711.	3090.	8015.	10482.	502.	5807.	0.052
			1670.	3991.	6602.	45.	-460.	9582.	0.034
22	0.3040	0.7785	259.	2374.	8743.	43.	-6683.	-3677.	0.116
14	-5.80	1.26	777.	3230.	8727.	13275.	703.	5432.	0.059
			1624.	4102.	7219.	311.	-300.	9131.	0.038
22	0.3010	0.7825	236.	1870.	7291.	46.	-6686.	-3531.	0.077
15	-2.95	0.51	412.	2414.	7400.	12250.	713.	5577.	0.031
			1312.	3128.	5770.	84.	-117.	9128.	0.040
22	0.3028	0.7812	295.	1982.	8263.	7.	-6838.	-3785.	0.106
16	-3.02	0.72	556.	2698.	8358.	15604.	870.	5297.	0.058
			1470.	3651.	6708.	360.	-26.	8970.	0.039
22	0.3002	0.7844	471.	2178.	9718.	-60.	-7054.	-4162.	0.141
17	-2.90	0.67	904.	3054.	9917.	19835.	1116.	4838.	0.086
			1674.	4125.	7632.	650.	182.	8727.	0.034

SWEPT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
22	0.4048	0.8410	389.	3065.	11321.	43.	-6550.	-2958.	0.093
18	-3.10	0.66	1017.	3582.	11243.	12711.	664.	6119.	0.070
			2662.	4568.	8906.	5.	-140.	7841.	0.037
22	0.4037	0.8431	503.	3256.	13603.	7.	-6716.	-3174.	0.174
19	-2.91	0.67	1304.	3866.	13538.	16286.	874.	5946.	0.078
			2778.	5095.	10747.	285.	5.	4202.	0.043
22	0.4015	0.8449	286.	3172.	11977.	35.	-6537.	-2769.	0.128
20	-2.93	0.69	1035.	3725.	12090.	13898.	690.	6538.	0.058
			2785.	4905.	9600.	7.	-167.	2787.	0.036
22	0.4029	0.8424	354.	3140.	12356.	10.	-6571.	-2787.	0.108
21	-3.10	-1.68	1144.	3681.	12071.	13967.	701.	6510.	0.052
			2675.	4718.	9303.	68.	-173.	1872.	0.036
22	0.4032	0.8435	280.	3030.	10751.	42.	-6270.	-2367.	0.055
22	-2.88	0.57	879.	3532.	10954.	9405.	358.	6996.	0.056
			2598.	4529.	8670.	-329.	-542.	1031.	0.016
22	0.4085	0.8371	345.	3549.	13421.	19.	-6416.	-2532.	0.137
23	-3.12	0.61	1096.	4108.	13199.	12153.	525.	6507.	0.066
			2920.	5175.	10004.	-41.	-430.	303.	0.032
22	0.4036	0.8437	325.	3539.	13984.	44.	-6405.	-2440.	0.111
24	-3.05	-1.57	1271.	4115.	13799.	11825.	535.	6625.	0.054
			3062.	5221.	10471.	-117.	-377.	99.	0.034
22	0.4029	0.8461	366.	3631.	16933.	-51.	-6635.	-2565.	0.196
25	-2.65	0.84	1409.	4150.	16707.	16888.	787.	6464.	0.035
			3014.	5290.	13335.	256.	-166.	-433.	0.048
53	0.3883	0.8255	407.	NA	NA	102.	NA	NA	0.168
3	2.01	-0.03	1256.	3735.	NA	16273.	843.	NA	0.105
			NA	NA	NA	NA	NA	NA	0.047
53	0.3878	0.8256	412.	NA	NA	97.	NA	NA	0.154
4	1.94	-0.07	1223.	3757.	NA	16429.	839.	NA	0.101
			NA	NA	NA	NA	NA	NA	0.047

SWEPT/TAPERED TIP

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
53	0.3904	0.8228	407.	NA	NA	88.	NA	NA	0.150
5	4.64	-0.06	1361.	3200.	NA	16726.	956.	NA	0.100
			NA	NA	NA	NA	NA	NA	0.047
53	0.3894	0.8231	434.	NA	NA	93.	NA	NA	0.242
6	-0.82	-0.01	1219.	4329.	NA	15431.	641.	NA	0.077
			NA	NA	NA	NA	NA	NA	0.042
53	0.3924	0.8206	416.	NA	NA	87.	NA	NA	0.195
7	1.44	-0.22	1267.	3902.	NA	16023.	814.	NA	0.101
			NA	NA	NA	NA	NA	NA	0.042
53	0.3916	0.8222	392.	NA	NA	105.	NA	NA	0.178
8	2.08	1.74	1377.	3684.	NA	16514.	855.	NA	0.106
			NA	NA	NA	NA	NA	NA	0.047
53	0.3918	0.8215	411.	NA	NA	99.	NA	NA	0.181
9	1.59	-0.06	1263.	3873.	NA	16257.	816.	NA	0.103
			NA	NA	NA	NA	NA	NA	0.048
54	0.3866	0.8283	391.	NA	NA	104.	NA	NA	0.168
3	1.86	-0.52	1215.	3740.	NA	16761.	932.	NA	0.087
			NA	NA	NA	NA	NA	NA	0.061
54	0.3864	0.8289	456.	NA	NA	81.	NA	NA	0.243
4	0.79	-0.85	1381.	4211.	NA	18901.	898.	NA	0.085
			NA	NA	NA	NA	NA	NA	0.053
54	0.3883	0.8259	348.	NA	NA	117.	NA	NA	0.124
5	3.05	-0.27	1117.	3297.	NA	14856.	852.	NA	0.087
			NA	NA	NA	NA	NA	NA	0.052
54	0.3886	0.8261	386.	NA	NA	100.	NA	NA	0.153
6	2.34	-0.54	1098.	3374.	NA	16784.	929.	NA	0.092
			NA	NA	NA	NA	NA	NA	0.043
54	0.3908	0.8266	418.	NA	NA	97.	NA	NA	0.227
7	1.18	-0.51	1369.	4368.	NA	15499.	686.	NA	0.089
			NA	NA	NA	NA	NA	NA	0.051

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
54	0.3911	0.8232	388.	NA	NA	103.	NA	NA	0.179
8	1.85	-0.52	1249.	3713.	NA	16260.	904.	NA	0.108
			NA	NA	NA	NA	NA	NA	0.051
54	0.3897	0.8250	392.	NA	NA	97.	NA	NA	0.193
9	1.81	-1.46	1196.	3833.	NA	16146.	863.	NA	0.099
			NA	NA	NA	NA	NA	NA	0.051
54	0.3913	0.8227	372.	NA	NA	111.	NA	NA	0.141
10	2.25	0.39	1301.	3675.	NA	16468.	875.	NA	0.110
			NA	NA	NA	NA	NA	NA	0.056
54	0.3932	0.8201	386.	NA	NA	104.	NA	NA	0.168
11	1.92	-0.49	1271.	3871.	NA	16259.	852.	NA	0.104
			NA	NA	NA	NA	NA	NA	0.056
54	0.4011	0.8277	384.	NA	NA	105.	NA	NA	0.176
12	1.84	-0.35	1289.	3826.	NA	16145.	883.	NA	0.107
			NA	NA	NA	NA	NA	NA	0.055
54	0.3836	0.8139	394.	NA	NA	100.	NA	NA	0.180
13	1.96	-0.60	1184.	3742.	NA	16327.	848.	NA	0.101
			NA	NA	NA	NA	NA	NA	0.056
54	0.2499	0.7520	198.	NA	NA	160.	NA	NA	0.042
16	0.26	0.31	468.	2230.	NA	8238.	466.	NA	0.044
			NA	NA	NA	NA	NA	NA	0.013
54	0.2502	0.7526	276.	NA	NA	130.	NA	NA	0.091
17	0.14	0.33	331.	2164.	NA	10934.	624.	NA	0.037
			NA	NA	NA	NA	NA	NA	0.015
54	0.2487	0.7539	348.	NA	NA	101.	NA	NA	0.143
18	0.10	0.60	500.	2492.	NA	14699.	909.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.025
54	0.2496	0.7536	261.	NA	NA	127.	NA	NA	0.119
19	-0.06	-2.91	395.	2374.	NA	11310.	665.	NA	0.040
			NA	NA	NA	NA	NA	NA	0.019

SWEPT/TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
54	0.2509	C.7508	290.	NA	NA	131.	NA	NA	0.090
20	0.44	3.10	673.	2273.	NA	11705.	698.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.015
54	C.2704	0.7633	204.	NA	NA	168.	NA	NA	0.038
21	0.05	0.43	377.	2370.	NA	7940.	375.	NA	0.050
			NA	NA	NA	NA	NA	NA	0.009
54	0.2703	0.7622	276.	NA	NA	137.	NA	NA	0.084
22	0.16	0.38	357.	2579.	NA	10496.	550.	NA	0.044
			NA	NA	NA	NA	NA	NA	0.016
54	0.2704	0.7627	350.	NA	NA	103.	NA	NA	0.129
23	0.10	0.63	522.	2833.	NA	14312.	81[illegible].	NA	0.054
			NA	NA	NA	NA	NA	NA	0.021
54	0.2711	0.7618	161.	NA	NA	220.	NA	NA	0.058
24	0.06	0.36	318.	2667.	NA	4176.	-80.	NA	0.017
			NA	NA	NA	NA	NA	NA	0.016
54	0.2702	0.7639	212.	NA	NA	178.	NA	NA	0.073
25	0.11	0.41	399.	2927.	NA	5482.	72.	NA	0.048
			NA	NA	NA	NA	NA	NA	0.014
54	0.2698	0.7631	302.	NA	NA	147.	NA	NA	0.129
26	0.04	0.55	471.	3057.	NA	7454.	238.	NA	0.044
			NA	NA	NA	NA	NA	NA	0.019
55	0.2503	C.8746	223.	NA	NA	137.	NA	NA	0.050
3	0.13	0.44	712.	2287.	NA	11274.	573.	NA	0.038
			NA	NA	NA	NA	NA	NA	0.039
55	0.2496	0.8757	308.	NA	NA	105.	NA	NA	0.080
4	0.40	0.50	734.	2421.	NA	15369.	863.	NA	0.057
			NA	NA	NA	NA	NA	NA	0.032
55	C.2494	C.8757	419.	NA	NA	76.	NA	NA	0.074
5	0.14	0.43	775.	2328.	NA	21625.	1201.	NA	0.076
			NA	NA	NA	NA	NA	NA	0.036

SWEPT/TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
55	0.2498	0.8762	177.	NA	NA	198.	NA	NA	0.042
6	0.23	0.59	640.	2466.	NA	6173.	139.	NA	0.040
			NA	NA	NA	NA	NA	NA	0.038
55	0.2497	0.8766	259.	NA	NA	158.	NA	NA	0.100
7	0.11	0.44	960.	2546.	NA	8425.	395.	NA	0.082
			NA	NA	NA	NA	NA	NA	0.038
55	0.2499	0.8759	381.	NA	NA	126.	NA	NA	0.136
8	0.19	0.53	1141.	2565.	NA	12239.	629.	NA	0.112
			NA	NA	NA	NA	NA	NA	0.031
55	0.2499	0.8133	169.	NA	NA	195.	NA	NA	0.089
9	0.22	0.23	346.	2573.	NA	5023.	25.	NA	0.003
			NA	NA	NA	NA	NA	NA	0.019
55	0.2492	0.8133	207.	NA	NA	138.	NA	NA	0.066
12	0.27	0.33	508.	2313.	NA	9654.	467.	NA	0.003
			NA	NA	NA	NA	NA	NA	0.024
55	0.2495	0.8141	297.	NA	NA	106.	NA	NA	0.105
13	0.21	0.55	470.	2443.	NA	12974.	698.	NA	0.007
			NA	NA	NA	NA	NA	NA	0.022
55	0.2494	0.8161	375.	NA	NA	83.	NA	NA	0.137
14	0.15	0.51	653.	2623.	NA	17178.	989.	NA	0.013
			NA	NA	NA	NA	NA	NA	0.032
55	0.2506	0.8119	169.	NA	NA	195.	NA	NA	0.081
15	0.16	0.35	378.	2601.	NA	5069.	27.	NA	0.003
			NA	NA	NA	NA	NA	NA	0.018
55	0.2500	0.8141	227.	NA	NA	155.	NA	NA	0.126
16	0.17	0.28	553.	2630.	NA	6743.	205.	NA	0.012
			NA	NA	NA	NA	NA	NA	0.021
55	0.2501	0.8137	317.	NA	NA	124.	NA	NA	0.162
17	0.06	0.49	688.	2725.	NA	9310.	424.	NA	0.017
			NA	NA	NA	NA	NA	NA	0.023

RUN / PT	V/OR / B1C	MAT / P1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	RV4 ACC / TL4 ACC / LN4 ACC
55	0.3766	0.8302	420.	NA	NA	67.	NA	NA	0.175
18	3.43	0.11	1277.	3564.	NA	19013.	1047.	NA	0.120
			NA	NA	NA	NA	NA	NA	0.044
55	0.3776	0.8286	300.	NA	NA	124.	NA	NA	0.154
19	-3.14	0.83	1026.	4348.	NA	5727.	310.	NA	0.096
			NA	NA	NA	NA	NA	NA	0.035
55	0.3742	0.8999	267.	NA	NA	110.	NA	NA	0.154
22	0.32	0.35	1216.	3664.	NA	12715.	573.	NA	0.019
			NA	NA	NA	NA	NA	NA	0.050
55	0.3759	0.8976	360.	NA	NA	84.	NA	NA	0.124
23	0.05	0.42	1447.	4032.	NA	17288.	787.	NA	0.022
			NA	NA	NA	NA	NA	NA	0.055
55	0.3744	0.8970	282.	NA	NA	125.	NA	NA	0.133
25	-3.22	0.61	1363.	4219.	NA	10503.	336.	NA	0.024
			NA	NA	NA	NA	NA	NA	0.039
55	0.3754	0.8985	430.	NA	NA	43.	NA	NA	0.082
26	3.39	0.19	1719.	3558.	NA	23854.	1213.	NA	0.023
			NA	NA	NA	NA	NA	NA	0.057
55	0.3749	0.8998	158.	NA	NA	110.	NA	NA	0.150
27	0.13	0.07	971.	3882.	NA	10916.	227.	NA	0.046
			NA	NA	NA	NA	NA	NA	0.051
55	0.3761	0.9374	218.	NA	NA	53.	NA	NA	0.132
28	0.13	0.16	1219.	3951.	NA	14584.	413.	NA	0.061
			NA	NA	NA	NA	NA	NA	0.048
55	0.3753	0.9385	266.	NA	NA	27.	NA	NA	0.134
29	0.18	0.45	1531.	3980.	NA	16765.	535.	NA	0.066
			NA	NA	NA	NA	NA	NA	0.045
55	0.3767	0.9366	321.	NA	NA	3.	NA	NA	0.141
30	0.20	0.30	1624.	4132.	NA	19310.	659.	NA	0.063
			NA	NA	NA	NA	NA	NA	0.046

SWEPT/TAPERED TIP

RUN / PT	V/OR / BIC	MAT / P1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / T14 ACC / IN4 ACC
55	0.3767	0.9369	81.	NA	NA	293.	NA	NA	0.022
31	0.21	0.42	117.	492.	NA	2931.	522.	NA	0.009
			NA	NA	NA	NA	NA	NA	0.003
55	0.3740	0.9400	355.	NA	NA	-15.	NA	NA	0.119
34	-0.01	0.19	1467.	3734.	NA	23241.	891.	NA	0.051
			NA	NA	NA	NA	NA	NA	0.056
55	0.3752	0.9408	174.	NA	NA	109.	NA	NA	0.189
35	0.18	0.38	1044.	4283.	NA	10038.	109.	NA	0.067
			NA	NA	NA	NA	NA	NA	0.055
55	0.3767	0.9378	284.	NA	NA	44.	NA	NA	0.201
36	-0.09	0.34	1601.	4584.	NA	13575.	298.	NA	0.098
			NA	NA	NA	NA	NA	NA	0.048
55	0.3749	0.9411	346.	NA	NA	18.	NA	NA	0.205
37	0.03	0.46	1768.	4651.	NA	15719.	382.	NA	0.111
			NA	NA	NA	NA	NA	NA	0.056
55	0.3737	0.9422	207.	NA	NA	84.	NA	NA	0.194
38	-0.03	0.50	1260.	4439.	NA	11307.	172.	NA	0.082
			NA	NA	NA	NA	NA	NA	0.056
55	0.3762	0.9393	359.	NA	NA	17.	NA	NA	0.215
39	0.02	0.30	1906.	4609.	NA	15545.	398.	NA	0.116
			NA	NA	NA	NA	NA	NA	0.057
55	0.3732	0.9434	382.	NA	NA	8.	NA	NA	0.205
40	0.17	0.30	1849.	4507.	NA	16815.	479.	NA	0.107
			NA	NA	NA	NA	NA	NA	0.053
55	0.3751	0.9399	30.	NA	NA	291.	NA	NA	0.017
41	0.01	0.03	123.	593.	NA	2892.	506.	NA	0.003
			NA	NA	NA	NA	NA	NA	0.003
56	0.3772	0.9653	263.	NA	NA	49.	NA	NA	0.135
3	0.24	0.36	1416.	4388.	NA	16642.	327.	NA	0.081
			NA	NA	NA	NA	NA	NA	0.058

SWEPT/TAPERED TIP

RUN PT	M/DP R1C	MAT R1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
56	0.3766	0.9658	338.	NA	NA	-7.	NA	NA	0.167
4	0.09	0.33	1627.	4650.	NA	21622.	436.	NA	0.105
			NA	NA	NA	NA	NA	NA	0.059
56	0.3733	0.9690	330.	NA	NA	-38.	NA	NA	0.199
5	0.34	0.52	1782.	4662.	NA	24797.	564.	NA	0.128
			NA	NA	NA	NA	NA	NA	0.063
56	0.3745	0.9689	396.	NA	NA	-55.	NA	NA	0.195
6	0.25	0.28	1912.	4847.	NA	26240.	585.	NA	0.145
			NA	NA	NA	NA	NA	NA	0.077
56	0.3740	0.9699	309.	NA	NA	8.	NA	NA	0.167
7	0.10	0.50	1730.	4481.	NA	19040.	392.	NA	0.106
			NA	NA	NA	NA	NA	NA	0.062
56	0.3758	0.9659	220.	NA	NA	104.	NA	NA	0.175
3	0.20	0.30	1370.	4859.	NA	11802.	-33.	NA	0.140
			NA	NA	NA	NA	NA	NA	0.081
56	0.3759	0.9668	289.	NA	NA	32.	NA	NA	0.204
9	0.57	0.48	1927.	4859.	NA	15605.	162.	NA	0.134
			NA	NA	NA	NA	NA	NA	0.064
56	0.3751	0.9663	374.	NA	NA	-15.	NA	NA	0.268
10	0.17	0.42	2016.	5158.	NA	19779.	323.	NA	0.158
			NA	NA	NA	NA	NA	NA	0.088
56	0.3737	0.9683	409.	NA	NA	-37.	NA	NA	0.356
11	0.24	0.32	2272.	5171.	NA	21720.	377.	NA	0.150
			NA	NA	NA	NA	NA	NA	0.044
60	0.2993	0.7818	372.	NA	NA	74.	NA	NA	0.074
3	1.75	-0.07	579.	4465.	NA	10161.	-5965.	NA	0.049
			NA	NA	NA	NA	NA	NA	0.021
60	0.2992	0.7831	3304.	NA	NA	-731.	NA	NA	0.066
4	2.02	-0.15	586.	4223.	NA	10293.	-5966.	NA	0.049
			NA	NA	NA	NA	NA	NA	0.021

SWEPT/TAPERED TIP

RUN / PT	V/OP / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
( )	0.2998	0.7823	3505.	NA	NA	-265.	NA	NA	(.049
5	4.48	-0.44	698.	3774.	NA	10862.	-6132.	NA	0.066
			NA	NA	NA	NA	NA	NA	0.017
60	0.3029	0.7761	2996.	NA	NA	-1244.	NA	NA	0.077
6	-0.41	-0.32	478.	4709.	NA	8536.	-5708.	NA	0.065
			NA	NA	NA	NA	NA	NA	0.025
60	0.3005	0.7791	216.	NA	NA	49.	NA	NA	0.079
7	1.97	-1.94	586.	4413.	NA	10135.	-5996.	NA	0.055
			NA	NA	NA	NA	NA	NA	0.021
60	0.3015	0.7775	3111.	NA	NA	-571.	NA	NA	0.066
8	2.37	1.55	705.	4300.	NA	10274.	-5982.	NA	0.058
			NA	NA	NA	NA	NA	NA	0.022
60	0.3019	0.7765	2078.	NA	NA	-289.	NA	NA	0.073
9	2.04	-0.10	571.	4201.	NA	10151.	-5960.	NA	0.049
			NA	NA	NA	NA	NA	NA	0.019
60	0.3001	0.7802	1737.	NA	NA	-103.	NA	NA	0.118
10	0.32	-0.55	566.	5255.	NA	12637.	-6169.	NA	0.058
			NA	NA	NA	NA	NA	NA	0.027
60	0.3011	0.7790	518.	NA	NA	55.	NA	NA	0.152
11	-0.67	-0.79	555.	5723.	NA	14185.	-6215.	NA	0.076
			NA	NA	NA	NA	NA	NA	0.029
60	0.3016	0.7777	3120.	NA	NA	-585.	NA	NA	0.043
12	3.90	-0.02	626.	3340.	NA	7837.	-5826.	NA	0.064
			NA	NA	NA	NA	NA	NA	0.009
60	0.3034	0.7729	2926.	NA	NA	-1865.	NA	NA	0.087
13	2.07	-0.17	580.	4315.	NA	10054.	-5930.	NA	0.063
			NA	NA	NA	NA	NA	NA	0.023
60	0.3020	0.7772	2841.	NA	NA	-1896.	NA	NA	0.054
14	2.61	-0.18	603.	3729.	NA	10897.	-6113.	NA	0.065
			NA	NA	NA	NA	NA	NA	0.018

SWEPT/TAPERED TIP

RUN / PT	V/OR / BLC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
60	0.3009	0.7781	2806.	NA	NA	-2721.	NA	NA	0.057
15	1.89	-0.33	576.	4675.	NA	8946.	-5745.	NA	0.060
			NA	NA	NA	NA	NA	NA	0.020
60	0.3039	0.7741	3232.	NA	NA	-1738.	NA	NA	0.074
16	2.20	-0.86	633.	4332.	NA	9963.	-5946.	NA	0.078
			NA	NA	NA	NA	NA	NA	0.021
60	0.3015	0.7778	3131.	NA	NA	-1037.	NA	NA	0.065
17	2.36	0.30	597.	4171.	NA	10219.	-5928.	NA	0.046
			NA	NA	NA	NA	NA	NA	0.020
60	0.3018	0.7774	3220.	NA	NA	-1694.	NA	NA	0.078
18	2.17	-0.23	600.	4358.	NA	10148.	-5921.	NA	0.052
			NA	NA	NA	NA	NA	NA	0.020
60	0.3146	0.7832	3036.	NA	NA	-1893.	NA	NA	0.066
19	2.16	-0.19	609.	4184.	NA	10039.	-5920.	NA	0.057
			NA	NA	NA	NA	NA	NA	0.019
60	0.2900	0.7679	3002.	NA	NA	-1434.	NA	NA	0.068
20	2.40	-0.39	565.	4133.	NA	10216.	-5950.	NA	0.052
			NA	NA	NA	NA	NA	NA	0.015
61	0.0657	0.6338	1700.	NA	NA	-22.	NA	NA	0.183
4	4.33	0.38	1244.	3931.	NA	10122.	-7082.	NA	0.070
			NA	NA	NA	NA	NA	NA	0.026
61	0.0759	0.6417	2716.	NA	NA	-658.	NA	NA	0.197
5	4.34	-0.13	1149.	3674.	NA	9721.	-6803.	NA	0.077
			NA	NA	NA	NA	NA	NA	0.022
61	0.0874	0.6486	3139.	NA	NA	-674.	NA	NA	0.197
6	4.27	0.46	1014.	3438.	NA	9351.	-6573.	NA	0.079
			NA	NA	NA	NA	NA	NA	0.020
61	0.0769	0.6411	2745.	NA	NA	-403.	NA	NA	0.086
8	0.11	0.43	251.	2396.	NA	5094.	-5848.	NA	0.018
			NA	NA	NA	NA	NA	NA	0.003

SWEPT/TAPERED TIP

PUT PT	V/CR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
61	0.0885	0.6498	3134.	NA	NA	-286.	NA	NA	0.081
[illegible]	0.14	0.47	219.	2210.	NA	3803.	-5419.	NA	0.055
			NA	NA	NA	NA	NA	NA	0.003
61	0.0755	0.6403	3170.	NA	NA	-1281.	NA	NA	0.194
10	4.37	-0.28	1147.	3831.	NA	9874.	-6779.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.022
61	0.0757	0.6408	1246.	NA	NA	-33.	NA	NA	0.158
11	6.48	-0.15	1079.	3151.	NA	10029.	-6803.	NA	0.081
			NA	NA	NA	NA	NA	NA	0.016
61	0.0712	0.6373	301.	NA	NA	126.	NA	NA	0.224
12	2.22	-0.43	1292.	4243.	NA	9824.	-6848.	NA	0.075
			NA	NA	NA	NA	NA	NA	0.032
61	0.0785	0.6430	2797.	NA	NA	-429.	NA	NA	0.212
13	4.23	-2.22	1187.	3756.	NA	9659.	-6705.	NA	0.082
			NA	NA	NA	NA	NA	NA	0.025
61	0.0751	0.6409	3241.	NA	NA	-632.	NA	NA	0.207
14	4.49	1.63	1165.	3676.	NA	9754.	-6753.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.025
61	0.0746	0.6406	3187.	NA	NA	-1082.	NA	NA	0.202
15	4.37	-0.48	1172.	3821.	NA	9736.	-6772.	NA	0.085
			NA	NA	NA	NA	NA	NA	0.023
61	0.0748	0.6418	3106.	NA	NA	-657.	NA	NA	0.235
16	3.87	-0.90	1192.	4554.	NA	13508.	-7373.	NA	0.105
			NA	NA	NA	NA	NA	NA	0.029
61	0.0749	0.6392	1723.	NA	NA	11.	NA	NA	0.158
17	4.92	0.04	875.	2719.	NA	6707.	-6178.	NA	0.053
			NA	NA	NA	NA	NA	NA	0.022
61	0.0764	0.6410	2584.	NA	NA	-686.	NA	NA	0.256
18	3.98	-0.87	1444.	4936.	NA	9298.	-6592.	NA	0.057
			NA	NA	NA	NA	NA	NA	0.059

SHEFT/TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TI 4 ACC LN4 ACC
61	0.0764	0.6423	2775.	NA	NA	-416.	NA	NA	0.114
19	4.60	-0.40	675.	2504.	NA	081.	-6877.	NA	0.068
			NA	NA	NA	NA	NA	NA	0.008
61	0.0782	0.6425	2461.	NA	NA	-309.	NA	NA	0.202
20	4.2	-0.67	1139.	3757.	NA	5732.	-6724.	NA	0.089
			NA	NA	NA	NA	NA	NA	0.024
62	0.1994	0.7199	2710.	NA	NA	-2178.	NA	NA	0.051
7	0.20	0.38	301.	2557.	NA	5649.	-5329.	NA	0.033
			NA	NA	NA	NA	NA	NA	0.006
62	0.2007	0.7199	2460.	NA	NA	-782.	NA	NA	0.086
8	0.38	0.53	383.	3072.	NA	8629.	5765.	NA	0.085
			NA	NA	NA	NA	NA	NA	0.004
63	0.2002	0.7208	290.	NA	NA	204.	NA	NA	0.090
2	0.10	0.46	427.	3232.	NA	9041.	-6088.	NA	0.089
			NA	NA	NA	NA	NA	NA	0.005
63	0.2016	0.7202	509.	NA	NA	129.	NA	NA	0.068
3	2.33	0.45	480.	3098.	NA	9765.	-6156.	NA	0.096
			NA	NA	NA	NA	NA	NA	0.002
63	0.1989	0.7180	226.	NA	NA	199.	NA	NA	0.120
4	-1.85	0.36	412.	3113.	NA	7864.	-5399.	NA	0.085
			NA	NA	NA	NA	NA	NA	0.013
63	0.2994	0.7807	1194.	NA	NA	-212.	NA	NA	0.064
5	0.05	0.42	397.	3776.	NA	8987.	-5839.	NA	0.084
			NA	NA	NA	NA	NA	NA	0.009
63	0.2991	0.7823	2791.	NA	NA	-253.	NA	NA	0.104
6	0.47	0.36	529.	4822.	NA	11821.	-6119.	NA	0.064
			NA	NA	NA	NA	NA	NA	0.030
63	0.4007	0.8421	2495.	NA	NA	-1233.	NA	NA	0.126
7	-0.01	0.23	982.	5187.	NA	14189.	-6336.	NA	0.107
			NA	NA	NA	NA	NA	NA	0.029

SURFV/MEMSD TRP

RUN PT	V/OR RIC	MAT RIS	PL OSC O OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN O MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
63	0.4001	0.8431	2821.	NA	NA	-424.	NA	NA	0.202
8	0.27	0.46	1370.	6163.	NA	19059.	-6667.	NA	0.120
			NA	NA	NA	NA	NA	NA	0.050
63	0.3986	0.8456	3272.	NA	NA	-2439.	NA	NA	0.085
9	0.22	0.18	611.	5067.	NA	7474.	-5563.	NA	0.083
			NA	NA	NA	NA	NA	NA	0.014
63	0.4028	0.8406	3142.	NA	NA	-2146.	NA	NA	0.075
10	0.55	0.27	938.	5501.	NA	10221.	-5857.	NA	0.116
			NA	NA	NA	NA	NA	NA	0.027
63	0.3991	0.8448	2902.	NA	NA	-1292.	NA	NA	0.130
11	0.20	0.45	1155.	6034.	NA	13975.	-6181.	NA	0.103
			NA	NA	NA	NA	NA	NA	0.046
63	0.3998	0.8447	2985.	NA	NA	-510.	NA	NA	0.213
12	0.22	0.47	1379.	6381.	NA	18295.	-6450.	NA	0.100
			NA	NA	NA	NA	NA	NA	0.059
63	0.4005	0.8445	481.	NA	NA	153.	NA	NA	0.196
13	3.50	-0.01	1644.	5949.	NA	21379.	-6841.	NA	0.133
			NA	NA	NA	NA	NA	NA	0.057
63	0.3675	0.3959	3164.	NA	NA	-1857.	NA	NA	0.189
14	0.25	0.34	699.	5077.	NA	9375.	-5600.	NA	0.014
			NA	NA	NA	NA	NA	NA	0.037
63	0.3701	0.8937	3151.	NA	NA	-2161.	NA	NA	0.143
15	-0.01	0.39	1063.	5258.	NA	12831.	-5922.	NA	0.021
			NA	NA	NA	NA	NA	NA	0.039
63	0.3697	0.3935	349.	NA	NA	183.	NA	NA	0.127
16	0.35	0.27	1330.	5543.	NA	14999.	-6169.	NA	0.027
			NA	NA	NA	NA	NA	NA	0.048
63	0.3650	0.9011	334.	NA	NA	182.	NA	NA	0.120
17	0.26	0.40	1478.	5927.	NA	17522.	-6290.	NA	0.036
			NA	NA	NA	NA	NA	NA	0.050

SWEPT/TAPERED TIP

RUN	V/OP	MAT	PL OSC	N5 OSC	E5 OSC	PL MEAN	N5 MEAN	E5 MEAN	NV4 ACC
ET	RIC	BIS	Q OSC	N6 OSC	E6 OSC	Q MEAN	N6 MEAN	E6 MEAN	TL4 ACC
			N3 OSC	N7 OSC	E7 OSC	N3 MEAN	N7 MEAN	E7 MEAN	LN4 ACC
63	0.3676	0.8966	407.	NA	NA	175.	NA	NA	0.103
18	0.40	0.38	1407.	5834.	NA	18873.	-6435.	NA	0.033
			NA	NA	NA	NA	NA	NA	0.050
63	0.1998	0.7194	2992.	NA	NA	-2926.	NA	NA	0.052
20	0.31	0.52	461.	2770.	NA	6296.	-5323.	NA	0.046
			NA	NA	NA	NA	NA	NA	0.007
63	0.2004	0.7169	3179.	NA	NA	-931.	NA	NA	0.082
21	0.37	0.53	474.	3271.	NA	9564.	-5813.	NA	0.088
			NA	NA	NA	NA	NA	NA	0.002

SWEPT TIP

RUN / PT	V/OR / R1C	MAT / R1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
48	0.2020	0.7180	278.	1879.	8052.	50.	-6848.	-4686.	0.102
4	0.10	0.65	434.	2498.	7676.	11363.	933.	3930.	0.043
			1235.	3608.	6621.	348.	37.	2335.	0.013
48	0.2001	0.7193	458.	2189.	8946.	-0.	-7100.	-5047.	0.164
5	0.16	0.61	547.	2810.	8190.	15640.	1272.	3215.	0.055
			1500.	3856.	7094.	750.	1128.	2003.	0.024
48	0.2005	0.7181	449.	2184.	9184.	-50.	-7222.	-5144.	0.202
6	0.20	0.63	575.	2837.	8324.	18277.	1433.	3024.	0.054
			1461.	4062.	7655.	912.	7518.	1937.	0.028
48	0.1995	0.7199	1018.	2109.	8925.	-169.	-7271.	-5165.	0.174
7	0.41	0.59	607.	2775.	7965.	19458.	1498.	2960.	0.049
			1519.	4636.	7434.	964.	9948.	1893.	0.030
48	0.1987	0.7189	108.	1371.	4359.	114.	-6356.	-3767.	0.045
8	0.72	0.34	254.	1670.	4757.	5342.	297.	5341.	0.020
			1047.	2283.	4384.	-308.	6809.	3115.	0.008
48	0.2003	0.7199	211.	1561.	6935.	84.	-6558.	-4134.	0.060
9	0.16	0.32	383.	1939.	6786.	7363.	565.	4721.	0.040
			1051.	3108.	6170.	-2.	9883.	2824.	0.009
48	0.2004	0.7175	296.	1815.	7742.	48.	-6788.	-4445.	0.106
10	0.28	0.36	361.	2369.	7167.	10489.	873.	4159.	0.041
			1145.	3417.	6672.	344.	10771.	2609.	0.007
48	0.1998	0.7186	358.	1933.	8332.	24.	-6898.	-4565.	0.135
11	0.16	0.54	661.	2549.	7850.	12382.	1034.	3923.	0.045
			1228.	3800.	7055.	516.	10426.	2516.	0.012
48	0.1994	0.7213	402.	1982.	8925.	49.	-7010.	-4602.	0.162
12	0.25	0.52	585.	2632.	8409.	14631.	1185.	3764.	0.046
			1293.	4229.	7558.	661.	11273.	2510.	0.014
48	0.2000	0.7212	489.	1785.	8674.	-8.	-7150.	-4740.	0.193
13	0.17	0.57	571.	2431.	8440.	17325.	1351.	3557.	0.049
			1383.	6700.	7804.	851.	15489.	2432.	0.018

SWEPT TIP

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
48	0.1999	0.7206	69.	383.	984.	198.	-6620.	-4592.	0.013
14	0.08	0.28	118.	699.	1489.	3100.	586.	4383.	0.006
			221.	1353.	1938.	-506.	5663.	1970.	0.003
49	0.1999	0.7182	70.	1623.	4360.	153.	-5934.	-3018.	0.028
17	0.23	0.29	121.	2055.	5215.	3025.	-250.	6192.	0.021
			1442.	2605.	4508.	-851.	-523.	3616.	0.011
48	0.2001	0.7193	75.	1510.	4556.	152.	-6065.	-3099.	0.031
18	0.07	0.28	128.	1842.	5052.	3463.	-49.	5933.	0.023
			1281.	2369.	4339.	-591.	-407.	3541.	0.009
48	0.2001	0.7198	93.	1411.	4974.	123.	-6251.	-3426.	0.058
19	0.14	0.44	249.	1822.	5540.	4576.	195.	5398.	0.025
			1066.	2641.	5105.	-315.	-239.	3309.	0.008
49	0.1996	0.7209	217.	1546.	7247.	77.	-6458.	-3760.	0.060
20	0.35	0.41	356.	1982.	7397.	6678.	474.	4856.	0.039
			1019.	3225.	7001.	3.	4772.	3092.	0.003
48	0.2005	0.7191	308.	1781.	7579.	43.	-6628.	-3871.	0.108
21	0.23	0.61	592.	2345.	7248.	9260.	726.	4528.	0.042
			1170.	4064.	7165.	313.	7293.	3010.	0.011
48	0.2002	0.7184	384.	1878.	8011.	59.	-6723.	-3926.	0.124
22	0.16	0.60	665.	2584.	7725.	10822.	842.	4361.	0.051
			1282.	4115.	7275.	498.	2966.	3034.	0.012
49	0.2001	0.7210	476.	1915.	8480.	33.	-6838.	-3926.	0.141
23	0.21	0.43	759.	2598.	8658.	13217.	1000.	4236.	0.057
			1400.	4150.	7987.	681.	2164.	3092.	0.013
48	0.2002	0.7185	57.	320.	849.	185.	-6741.	-4833.	0.012
24	0.33	0.33	107.	517.	1181.	3121.	729.	3943.	0.008
			197.	868.	1336.	-417.	1417.	1766.	0.001
48	0.2005	0.7192	0.	1.	12.	97.	-3142.	151.	0.000
25	0.00	0.00	4.	4.	10.	-68.	-2063.	316.	0.000
			2.	4.	11.	-6217.	-795.	586.	0.000

SWEPT TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49	0.3007	0.7792	95.	2236.	5509.	120.	-6205.	-3663.	0.098
3	0.39	0.36	272.	2691.	6223.	5553.	190.	5491.	0.038
			2042.	3096.	4787.	-516.	4386.	3040.	0.026
49	0.3007	0.7798	191.	2241.	7594.	85.	-6403.	-3867.	0.071
4	0.13	0.33	376.	2679.	7855.	8196.	393.	5230.	0.054
			1927.	3245.	6626.	-184.	4802.	3147.	0.023
49	0.2999	0.7814	285.	2271.	8667.	65.	-6655.	-4274.	0.063
5	0.15	0.35	463.	2802.	8136.	11347.	651.	4842.	0.039
			1809.	3428.	7071.	192.	5354.	3044.	0.029
49	0.2985	0.7832	368.	2336.	10409.	46.	-6934.	-4772.	0.092
6	0.04	0.50	596.	3142.	9443.	15391.	989.	4260.	0.025
			1900.	3741.	7796.	591.	6769.	2667.	0.035
49	0.2997	0.7800	420.	2334.	11053.	26.	-7093.	-5104.	0.102
7	-0.07	0.42	749.	3259.	10346.	17692.	1177.	3890.	0.033
			1879.	3941.	8511.	792.	7032.	2481.	0.038
49	0.3008	0.7789	520.	2463.	11057.	-7.	-7170.	-4959.	0.061
8	0.10	0.52	821.	3344.	11258.	20435.	1256.	4066.	0.049
			2077.	4354.	9167.	905.	8031.	2739.	0.026
49	0.2998	0.7804	195.	1584.	5525.	60.	-6663.	-4374.	0.056
9	0.25	0.23	327.	2010.	5798.	9598.	726.	4820.	0.055
			1462.	3066.	5196.	-95.	10372.	2437.	0.015
49	0.2991	0.7821	256.	1756.	6720.	46.	-6793.	-4541.	0.028
10	0.28	0.16	397.	2138.	6754.	12059.	858.	4626.	0.037
			1436.	2884.	5811.	133.	10435.	2428.	0.018
49	0.2995	0.7803	337.	1860.	8379.	24.	-7033.	-4903.	0.065
11	0.10	0.43	504.	2235.	7957.	16726.	1124.	4143.	0.018
			1519.	3021.	6462.	523.	10444.	2231.	0.026
49	0.3001	0.7806	421.	1987.	9953.	1.	-7253.	-5138.	0.075
12	0.26	0.43	669.	2417.	8952.	22099.	1375.	3736.	0.037
			1712.	3450.	7210.	857.	10496.	2024.	0.028

BAL-TAB

SHEET TLP

RUN PT	V/DR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49	0.3012	0.7791	392.	1877.	9016.	-36.	-7152.	-5035.	0.088
13	0.17	0.43	617.	2311.	8271.	19093.	1255.	3939.	0.036
			1544.	3240.	6977.	683.	11007.	2022.	0.031
49	0.3012	0.7782	118.	2824.	5687.	214.	-5404.	-1774.	0.171
14	0.20	0.15	246.	3709.	7571.	3491.	-647.	7885.	0.032
			2667.	3345.	6633.	-1452.	7531.	4140.	0.024
49	0.3005	0.7788	89.	2743.	5741.	184.	-5579.	-2138.	0.138
15	0.26	0.12	200.	3441.	7031.	2990.	-466.	7534.	0.045
			2636.	3534.	5856.	-1129.	8356.	3994.	0.023
49	0.3015	0.7768	106.	2674.	6204.	164.	-5790.	-2597.	0.124
16	0.08	0.22	281.	3328.	6642.	3194.	-261.	7119.	0.047
			2532.	3123.	5237.	-812.	8692.	3829.	0.023
49	0.3013	0.7782	119.	2601.	7033.	140.	-5984.	-2967.	0.074
17	0.25	0.32	355.	3144.	7292.	4038.	-61.	6756.	0.048
			2418.	3166.	6159.	-509.	8868.	3790.	0.023
49	0.3017	0.7773	224.	2602.	9425.	106.	-6195.	-3252.	0.051
18	0.17	0.25	439.	3180.	9659.	5515.	192.	6305.	0.058
			2227.	3806.	7921.	-210.	9077.	3647.	0.022
49	0.3019	0.7763	336.	2688.	10273.	87.	-6408.	-3519.	0.067
19	0.17	0.60	531.	3281.	10115.	7867.	418.	5933.	0.059
			2133.	4093.	8103.	105.	9352.	3625.	0.026
49	0.2993	0.7817	410.	2735.	11350.	72.	-6521.	-3757.	0.076
20	-0.10	0.47	678.	3468.	11173.	9371.	562.	5777.	0.045
			2195.	4813.	8703.	286.	9829.	3694.	0.027
49	0.3009	0.7777	505.	2874.	12287.	43.	-6655.	-3905.	0.044
21	-0.00	0.64	794.	3714.	12711.	12002.	677.	5669.	0.054
			2438.	5501.	9946.	497.	13181.	3806.	0.021
49	0.3728	0.8321	274.	3564.	9934.	83.	-6163.	-3188.	0.297
24	0.16	0.49	499.	4346.	10744.	8183.	176.	6203.	0.068
			3485.	5850.	8983.	-372.	6735.	3398.	0.047

SWEPT TIP

RUN PT	V/OR R1C	MAT R1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
49	0.3746	0.8293	288.	3234.	9286.	62.	-6395.	-3399.	0.250
25	0.27	0.26	725.	3970.	9970.	10986.	445.	5838.	0.061
			3374.	7822.	8422.	-42.	13679.	3180.	0.050
49	0.3741	0.8293	369.	3668.	11926.	36.	-6630.	-3525.	0.202
26	0.27	0.61	1003.	4296.	12461.	15255.	736.	5550.	0.051
			3633.	5841.	10229.	307.	25562.	2991.	0.054
49	0.3743	0.8267	425.	3787.	13199.	35.	-6772.	-3665.	0.151
27	0.17	0.33	1103.	4403.	13742.	17567.	907.	5305.	0.059
			3818.	8530.	10970.	513.	23488.	2854.	0.056
49	0.3746	0.8256	463.	3771.	14587.	-14.	-6891.	-3642.	0.110
28	0.06	0.48	1401.	4412.	14729.	20583.	1045.	5314.	0.049
			3785.	6712.	11868.	731.	6162.	2957.	0.060
49	0.3746	0.8275	288.	2402.	7372.	12.	-6748.	-4222.	0.142
29	0.32	0.41	590.	2924.	8269.	12912.	862.	5144.	0.036
			2471.	4971.	7083.	104.	5680.	2329.	0.026
49	0.3762	0.8273	278.	2355.	7255.	-15.	-6869.	-4341.	0.120
30	0.30	0.32	670.	2860.	8014.	15252.	1016.	4920.	0.034
			2473.	8184.	7143.	245.	12182.	2146.	0.030
49	0.3761	0.8260	314.	2587.	8556.	-21.	-6948.	-4380.	0.086
31	0.14	0.34	767.	3099.	9053.	17395.	1101.	4744.	0.062
			2649.	8669.	7841.	428.	13300.	2039.	0.033
49	0.3759	0.8261	515.	2563.	9324.	-67.	-7053.	-4424.	0.066
32	0.25	0.47	815.	3081.	9753.	20596.	1222.	4718.	0.048
			2697.	9648.	8273.	645.	18260.	1987.	0.031
49	0.3760	0.8255	240.	4283.	9047.	187.	-5266.	-1349.	0.298
33	0.29	0.15	334.	5295.	10122.	3852.	-854.	8894.	0.044
			4333.	13070.	8724.	-1650.	14799.	4794.	0.028
49	0.3775	0.8236	232.	4244.	9083.	164.	-5430.	-1696.	0.306
34	0.23	0.22	304.	5202.	10097.	3177.	-654.	8446.	0.056
			4303.	9507.	8297.	-1327.	12746.	4576.	0.030

SWEPT TIP

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
49	0.3772	0.8251	212.	4231.	9252.	140.	-5578.	-2020.	0.311
35	0.16	0.22	310.	5143.	10111.	3137.	-494.	8163.	0.056
			4200.	10706.	8139.	-1042.	16266.	4467.	0.033
49	0.3772	0.8251	227.	4148.	11270.	126.	-5761.	-2330.	0.286
36	0.32	0.33	325.	5069.	11445.	3963.	-292.	7736.	0.073
			3950.	9435.	9587.	-750.	20736.	4232.	0.031
49	0.3743	0.8261	256.	3734.	12480.	112.	-5989.	-2629.	0.231
37	0.16	0.24	721.	4598.	12663.	5435.	2.	7256.	0.065
			3606.	8221.	10447.	-454.	22389.	3893.	0.035
49	0.3773	0.8251	346.	3891.	14450.	58.	-6154.	-2877.	0.193
38	0.14	0.42	895.	4649.	14832.	7993.	212.	6965.	0.059
			3776.	8515.	12099.	-149.	16009.	3749.	0.040
49	0.3779	0.8234	392.	3950.	15734.	41.	-6257.	-2921.	0.159
39	0.31	0.40	1042.	4663.	15898.	9894.	323.	6858.	0.054
			3911.	6758.	13159.	19.	3208.	3768.	0.044
49	0.3766	0.8260	483.	3907.	17750.	-11.	-6375.	-2836.	0.145
40	0.20	0.61	1370.	4611.	17560.	12830.	449.	6945.	0.040
			4188.	5768.	14080.	217.	246.	3982.	0.051
49	0.3754	0.8986	377.	3801.	13042.	66.	-6036.	-2383.	0.409
43	0.27	0.19	635.	4684.	12496.	9535.	110.	7940.	0.039
			3807.	10140.	8573.	-629.	10054.	4950.	0.037
49	0.3735	0.8984	2979.	3769.	13397.	-1591.	-6263.	-2525.	0.400
44	0.17	0.27	900.	4743.	13133.	13667.	385.	7654.	0.052
			3845.	7080.	9533.	-224.	2264.	4751.	0.037
49	0.3756	0.8964	3422.	3825.	13543.	-2046.	-6405.	-1970.	0.387
45	0.23	0.47	1163.	4712.	13176.	15671.	545.	7386.	0.057
			3933.	8809.	10010.	-54.	1782.	4546.	0.033
51	0.3748	0.8975	369.	NA	NA	38.	NA	NA	0.408
3	0.19	0.11	728.	4836.	NA	11058.	293.	NA	0.035
			NA	NA	NA	NA	NA	NA	0.037

SHEET TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51	0.3756	0.8952	394.	NA	NA	28.	NA	NA	0.412
4	0.04	0.41	903.	4892.	NA	12968.	432.	NA	0.041
			NA	NA	NA	NA	NA	NA	0.034
51	0.3750	0.8960	437.	NA	NA	5.	NA	NA	0.385
5	0.27	0.45	1140.	4822.	NA	15519.	619.	NA	0.047
			NA	NA	NA	NA	NA	NA	0.033
51	0.3776	0.8920	478.	NA	NA	-2.	NA	NA	0.379
6	0.18	0.47	1292.	4908.	NA	17541.	709.	NA	0.045
			NA	NA	NA	NA	NA	NA	0.028
51	0.3738	0.8971	508.	NA	NA	-22.	NA	NA	0.316
7	0.11	0.43	1506.	4881.	NA	21502.	953.	NA	0.055
			NA	NA	NA	NA	NA	NA	0.031
51	0.3751	0.8969	549.	NA	NA	-24.	NA	NA	0.303
8	0.11	0.50	1488.	4864.	NA	23015.	1037.	NA	0.049
			NA	NA	NA	NA	NA	NA	0.029
51	0.3758	0.8980	337.	NA	NA	-2.	NA	NA	0.294
9	0.42	0.26	732.	3602.	NA	12141.	745.	NA	0.032
			NA	NA	NA	NA	NA	NA	0.048
51	0.3782	0.8925	357.	NA	NA	-9.	NA	NA	0.307
10	0.12	0.10	862.	3607.	NA	14736.	838.	NA	0.030
			NA	NA	NA	NA	NA	NA	0.047
51	0.3745	0.8997	388.	NA	NA	-26.	NA	NA	0.301
11	0.27	0.39	1069.	3672.	NA	18219.	962.	NA	0.044
			NA	NA	NA	NA	NA	NA	0.047
51	0.3766	0.8974	422.	NA	NA	-42.	NA	NA	0.262
12	0.12	0.34	1242.	3580.	NA	21631.	1149.	NA	0.039
			NA	NA	NA	NA	NA	NA	0.049
51	0.3758	0.8980	455.	NA	NA	-49.	NA	NA	0.259
13	0.13	0.29	1222.	3663.	NA	23510.	1219.	NA	0.037
			NA	NA	NA	NA	NA	NA	0.051

SWEPT TIP

RUN / PT	V/DR / BIC	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
51	0.3762	0.8951	343.	NA	NA	161.	NA	NA	0.299
14	0.24	0.11	676.	5437.	NA	5323.	-852.	NA	0.006
			NA	NA	NA	NA	NA	NA	0.050
51	0.3772	0.8936	334.	NA	NA	141.	NA	NA	0.349
15	0.32	-0.07	692.	5583.	NA	4225.	-673.	NA	0.011
			NA	NA	NA	NA	NA	NA	0.057
51	0.3777	0.8951	341.	NA	NA	117.	NA	NA	0.379
16	0.16	0.12	669.	5467.	NA	4036.	-458.	NA	0.023
			NA	NA	NA	NA	NA	NA	0.065
51	0.3766	0.8960	345.	NA	NA	86.	NA	NA	0.374
17	0.14	0.20	668.	5395.	NA	4841.	-209.	NA	0.032
			NA	NA	NA	NA	NA	NA	0.068
51	0.3768	0.8956	337.	NA	NA	75.	NA	NA	0.381
18	0.13	0.36	663.	5544.	NA	5677.	-130.	NA	0.045
			NA	NA	NA	NA	NA	NA	0.071
51	0.3766	0.8963	370.	NA	NA	62.	NA	NA	0.382
19	0.19	0.43	877.	5624.	NA	6897.	-10.	NA	0.062
			NA	NA	NA	NA	NA	NA	0.075
51	0.3757	0.8974	412.	NA	NA	41.	NA	NA	0.368
20	0.04	0.59	1107.	5629.	NA	8193.	93.	NA	0.076
			NA	NA	NA	NA	NA	NA	0.078
51	0.3749	0.8983	452.	NA	NA	17.	NA	NA	0.359
21	0.25	0.28	1336.	5521.	NA	10137.	235.	NA	0.089
			NA	NA	NA	NA	NA	NA	0.081
51	0.3753	0.8972	497.	NA	NA	-10.	NA	NA	0.355
22	0.23	0.44	1535.	5371.	NA	12857.	393.	NA	0.095
			NA	NA	NA	NA	NA	NA	0.034
51	0.3871	0.8294	378.	NA	NA	15.	NA	NA	0.168
25	2.20	-0.01	1127.	3889.	NA	16489.	1038.	NA	0.059
			NA	NA	NA	NA	NA	NA	0.047

SWEPT TIP

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
51	0.3869	0.8273	371.	NA	NA	-3.	NA	NA	0.137
26	5.87	-0.31	1259.	3202.	NA	16226.	1151.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.039
51	0.3872	0.8250	414.	NA	NA	21.	NA	NA	0.155
27	-0.27	-0.37	1046.	4651.	NA	15285.	852.	NA	0.068
			NA	NA	NA	NA	NA	NA	0.052
51	0.3883	0.8251	382.	NA	NA	1.	NA	NA	0.165
28	2.47	-2.29	1239.	4297.	NA	16325.	990.	NA	0.073
			NA	NA	NA	NA	NA	NA	0.050
51	0.3876	0.8262	372.	NA	NA	24.	NA	NA	0.188
29	2.41	1.99	1281.	3934.	NA	16458.	1018.	NA	0.063
			NA	NA	NA	NA	NA	NA	0.049
51	0.3888	0.8240	376.	NA	NA	10.	NA	NA	0.157
30	2.40	-0.24	1118.	3865.	NA	16273.	1022.	NA	0.062
			NA	NA	NA	NA	NA	NA	0.043
51	0.3893	0.8250	352.	NA	NA	1.	NA	NA	0.116
31	3.10	0.00	1068.	3276.	NA	16360.	1130.	NA	0.060
			NA	NA	NA	NA	NA	NA	0.026
51	0.3886	0.8249	443.	NA	NA	20.	NA	NA	0.157
32	1.64	-0.14	1129.	4689.	NA	15214.	855.	NA	0.069
			NA	NA	NA	NA	NA	NA	0.046
51	0.3902	0.8242	376.	NA	NA	15.	NA	NA	0.149
33	2.43	-0.14	1208.	3952.	NA	16195.	1030.	NA	0.069
			NA	NA	NA	NA	NA	NA	0.046
51	0.3892	0.8253	440.	NA	NA	6.	NA	NA	0.123
34	1.18	-0.48	1280.	4493.	NA	18385.	1077.	NA	0.062
			NA	NA	NA	NA	NA	NA	0.052
51	0.3894	0.8237	337.	NA	NA	17.	NA	NA	0.175
35	3.71	-0.01	1016.	3461.	NA	13837.	923.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.035

SWEPT TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
51	0.3896	0.8249	373.	NA	NA	7.	NA	NA	0.133
36	2.24	-0.99	1123.	3996.	NA	15984.	1014.	NA	0.070
			NA	NA	NA	NA	NA	NA	0.043
51	0.3882	0.8265	391.	NA	NA	19.	NA	NA	0.103
37	2.82	0.78	1204.	3935.	NA	16382.	974.	NA	0.061
			NA	NA	NA	NA	NA	NA	0.049
59	0.3743	0.8989	369.	NA	NA	98.	NA	NA	0.402
5	0.37	0.31	815.	4788.	NA	12835.	355.	NA	0.043
			NA	NA	NA	NA	NA	NA	0.036
59	0.3754	0.8979	453.	NA	NA	68.	NA	NA	0.361
6	0.29	0.29	1203.	4731.	NA	17880.	681.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.036
59	0.3750	0.8977	541.	NA	NA	40.	NA	NA	0.263
7	0.32	0.26	1510.	4939.	NA	25326.	1016.	NA	0.053
			NA	NA	NA	NA	NA	NA	0.027
59	0.3736	0.9405	2393.	NA	NA	-4303.	NA	NA	0.135
8	0.53	0.06	1168.	4439.	NA	13197.	234.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.043
59	0.3742	0.9406	3128.	NA	NA	-3054.	NA	NA	0.177
9	0.32	0.34	1588.	4647.	NA	18088.	481.	NA	0.098
			NA	NA	NA	NA	NA	NA	0.056
59	0.3752	0.9388	340.	NA	NA	-54.	NA	NA	0.195
10	0.31	0.28	1737.	4597.	NA	20987.	652.	NA	0.103
			NA	NA	NA	NA	NA	NA	0.065
59	0.3746	0.9403	691.	NA	NA	-162.	NA	NA	0.147
11	0.22	0.23	1255.	4525.	NA	15309.	358.	NA	0.087
			NA	NA	NA	NA	NA	NA	0.059
59	0.3751	0.9389	1.	NA	NA	-218.	NA	NA	0.209
12	0.34	0.31	1362.	4811.	NA	10393.	-30.	NA	0.097
			NA	NA	NA	NA	NA	NA	0.049

SWEPT TIP

RUN / PT	V/CR / BIC	MAT / BLS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
59	0.3761	0.9367	1.	NA	NA	-218.	NA	NA	0.217
13	0.17	0.31	1519.	5011.	NA	11723.	97.	NA	0.107
			NA	NA	NA	NA	NA	NA	0.050
59	0.3752	0.9398	1.	NA	NA	-218.	NA	NA	0.237
14	0.43	0.39	1669.	4904.	NA	13959.	193.	NA	0.135
			NA	NA	NA	NA	NA	NA	0.049
59	0.3747	0.9406	0.	NA	NA	-218.	NA	NA	0.262
15	-0.02	0.43	2020.	5206.	NA	16590.	357.	NA	0.144
			NA	NA	NA	NA	NA	NA	0.049
59	0.3738	0.9427	1.	NA	NA	-218.	NA	NA	0.106
16	0.46	0.17	1523.	3977.	NA	18691.	594.	NA	0.111
			NA	NA	NA	NA	NA	NA	0.092
59	0.3738	0.9424	1.	NA	NA	-218.	NA	NA	0.082
17	0.50	0.34	1548.	4066.	NA	25242.	963.	NA	0.106
			NA	NA	NA	NA	NA	NA	0.077
59	0.3724	0.9450	0.	NA	NA	-218.	NA	NA	0.198
18	0.39	0.48	1855.	4097.	NA	27821.	935.	NA	0.109
			NA	NA	NA	NA	NA	NA	0.055

TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
23	0.2008	0.7184	107.	2108.	4889.	238.	-5560.	-1484.	0.087
3	0.07	0.06	148.	2592.	6147.	3294.	-733.	7075.	0.054
			2098.	3330.	5581.	-1286.	-1545.	5278.	0.017
23	0.2010	0.7174	88.	1925.	4520.	226.	-5712.	-1781.	0.059
4	0.06	0.16	142.	2340.	5498.	2884.	-514.	6692.	0.057
			1739.	2851.	4879.	-1028.	-1372.	5171.	0.015
23	0.2010	0.7171	89.	1736.	4302.	218.	-5905.	-2025.	0.054
5	0.12	0.21	144.	2088.	5065.	3285.	-258.	6294.	0.061
			1457.	2559.	4351.	-728.	-1184.	4996.	0.011
23	0.2019	0.7160	109.	1685.	5209.	202.	-6085.	-2294.	0.068
6	0.17	0.26	244.	1972.	5614.	4353.	-32.	5870.	0.051
			1327.	2650.	5134.	-421.	-1080.	5076.	0.010
23	0.2012	0.7171	177.	1662.	7910.	183.	-6275.	-2510.	0.065
7	0.15	0.36	352.	2114.	7974.	6132.	216.	5455.	0.113
			1151.	3180.	7467.	-110.	-938.	6816.	0.002
23	0.2003	0.7180	249.	1918.	8139.	180.	-6483.	-2668.	0.114
8	0.07	0.48	632.	2415.	8325.	8708.	492.	4964.	0.129
			1209.	3584.	8331.	256.	-708.	7425.	0.010
23	0.1991	0.7220	322.	1978.	8607.	184.	-6586.	-2585.	0.120
9	0.21	0.48	921.	2669.	8351.	10724.	634.	4924.	0.132
			1318.	3776.	8574.	445.	-571.	8940.	0.010
23	0.2003	0.7198	397.	1956.	9107.	181.	-6723.	-2605.	0.144
10	0.02	0.54	861.	2533.	9321.	12942.	795.	4814.	0.146
			1350.	3723.	8919.	655.	-421.	10398.	0.014
23	0.2007	0.7179	542.	1769.	9071.	167.	-6823.	-2411.	0.174
11	0.08	0.54	946.	2117.	8897.	15964.	927.	4853.	0.134
			1397.	3389.	8881.	829.	-277.	13503.	0.018
23	0.2003	0.7191	605.	1646.	9901.	157.	-6880.	-2258.	0.201
12	0.08	0.62	1051.	1940.	9368.	17885.	1015.	4505.	0.119
			1453.	3149.	9495.	904.	-60.	16013.	0.025

TAPERED TIP

RUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
23	0.2003	0.7193	66.	1672.	4349.	216.	-5987.	-2199.	0.043
13	0.09	0.22	129.	1978.	4997.	3668.	-178.	5729.	0.056
			1367.	2493.	4543.	-756.	-905.	18603.	0.012
23	0.1994	0.7213	85.	1574.	4210.	195.	-6223.	-2646.	0.061
14	0.18	0.26	303.	1813.	4733.	5128.	120.	5142.	0.030
			1227.	2534.	4610.	-410.	-707.	18491.	0.011
23	0.2004	0.7183	175.	1615.	7382.	174.	-6444.	-2991.	0.050
15	0.12	0.37	360.	2010.	7211.	7324.	410.	4585.	0.101
			1037.	3135.	6928.	-99.	-523.	18411.	0.001
23	0.2005	0.7178	254.	1949.	8131.	166.	-6660.	-3210.	0.098
16	0.08	0.41	651.	2524.	7673.	10276.	699.	4127.	0.106
			1168.	3610.	7564.	260.	-247.	18595.	0.008
23	0.2004	0.7177	388.	2093.	8912.	160.	-6901.	-3293.	0.137
17	0.13	0.48	811.	2718.	8364.	14443.	1014.	3779.	0.127
			1366.	3834.	8471.	622.	43.	19370.	0.014
23	0.2008	0.7185	540.	1839.	8029.	147.	-7038.	-3230.	0.187
18	0.07	0.45	826.	2424.	8096.	17567.	1163.	3802.	0.115
			1491.	3497.	8158.	813.	120.	18726.	0.022
23	0.1998	0.7193	703.	1617.	11022.	125.	-7133.	-2890.	0.246
19	0.24	0.53	1067.	2289.	10271.	21087.	1273.	3873.	0.092
			1723.	3453.	9190.	962.	-335.	16950.	0.027
23	0.2003	0.7199	76.	1393.	3929.	176.	-6292.	-3813.	0.051
22	0.06	0.17	259.	1674.	4411.	5598.	194.	4925.	0.034
			1110.	2341.	4238.	-391.	-625.	22125.	0.009
23	0.2001	0.7179	171.	1586.	7412.	156.	-6505.	-3142.	0.050
23	0.18	0.28	298.	1910.	7291.	8044.	460.	4459.	0.079
			1046.	2962.	6803.	-73.	-436.	22508.	0.001
23	0.2007	0.7193	253.	1992.	8977.	153.	-6753.	-3486.	0.086
24	-0.02	0.34	513.	2554.	8414.	11220.	774.	3841.	0.091
			1224.	3705.	7660.	299.	-219.	22648.	0.007

RUN / PT	V/OR / BIC	MAT / BIS	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
TAPERED TIP									
23	0.2000	0.7179	341.	2303.	9488.	152.	-7014.	-3794.	0.145
25	0.11	0.42	696.	2911.	8585.	15529.	1111.	3211.	0.106
			1514.	4085.	8172.	688.	102.	22860.	0.014
23	0.1993	0.7207	453.	2230.	9083.	144.	-7136.	-3747.	0.158
26	0.15	0.43	791.	2768.	8202.	18539.	1280.	3055.	0.101
			1547.	3823.	8289.	847.	258.	24226.	0.021
23	0.1998	0.7200	604.	1955.	8900.	122.	-7271.	-3676.	0.227
27	0.23	0.47	945.	2455.	8779.	21880.	1415.	3096.	0.080
			1580.	3583.	8710.	1069.	344.	25679.	0.038
23	0.2020	0.7155	106.	1980.	4528.	294.	-5277.	-403.	0.023
28	0.11	0.24	204.	2332.	4959.	662.	-943.	7640.	0.065
			1801.	2735.	4091.	-1341.	-1818.	29086.	0.004
23	0.2008	0.7155	115.	1945.	5242.	279.	-5430.	-645.	0.010
29	0.08	0.25	201.	2243.	5536.	-828.	-758.	7323.	0.079
			1756.	2635.	4527.	-1085.	-1745.	29107.	0.003
23	0.2006	0.7164	130.	1936.	7651.	263.	-5592.	-1031.	0.069
30	0.16	0.22	272.	2266.	7568.	-1702.	-554.	6864.	0.101
			1665.	2757.	6571.	-819.	-1644.	28973.	0.001
23	0.2011	0.7170	206.	2068.	7761.	240.	-5795.	-1460.	0.107
31	0.23	0.42	345.	2352.	7582.	-1998.	-306.	6322.	0.092
			1776.	2981.	6311.	-546.	-1483.	28842.	0.001
23	0.2013	0.7166	297.	2122.	11285.	224.	-5976.	-1582.	0.104
32	0.15	0.51	378.	2565.	11022.	-1693.	-91.	6097.	0.124
			1725.	3545.	9704.	-259.	-1342.	28901.	0.005
23	0.2021	0.7156	369.	2231.	13124.	214.	-6217.	-1874.	0.144
33	0.17	0.67	520.	2764.	12564.	161.	195.	5691.	0.126
			1740.	3958.	11155.	33.	-1137.	28880.	0.006
23	0.2008	0.7186	426.	2337.	13468.	202.	-6316.	-1853.	0.140
34	0.17	0.75	764.	2705.	12664.	2232.	305.	5801.	0.115
			1678.	3986.	11392.	165.	-1070.	29337.	0.008

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN6 ACC
24	0.3011	0.7791	162.	3148.	6402.	246.	-5381.	-1061.	0.201
3	-0.05	0.09	257.	3978.	7759.	3130.	-660.	7613.	0.045
			3078.	4827.	6713.	-1400.	-1440.	6823.	0.029
24	0.3012	0.7790	147.	2890.	5992.	235.	-5523.	-1383.	0.176
4	0.32	0.15	212.	3552.	6974.	3006.	-522.	7361.	0.052
			2829.	4320.	5909.	-1235.	-1318.	6618.	0.028
24	0.3005	0.7810	133.	2783.	6587.	227.	-5696.	-1675.	0.149
5	0.10	0.24	272.	3385.	6678.	3074.	-360.	7203.	0.063
			2718.	3922.	5112.	-919.	-1265.	6696.	0.026
24	0.3010	0.7795	113.	2757.	7394.	212.	-5896.	-2064.	0.081
6	0.02	0.38	302.	3279.	7720.	3805.	-156.	6963.	0.058
			2580.	3676.	6534.	-597.	-1175.	6422.	0.022
24	0.2993	0.7814	164.	2556.	8820.	188.	-6117.	-2342.	0.047
7	0.15	0.32	461.	3047.	8944.	5398.	80.	6656.	0.057
			2256.	3730.	7301.	-294.	-1075.	6036.	0.024
24	0.3011	0.7787	273.	2625.	9814.	173.	-6359.	-2718.	0.045
8	0.17	0.44	516.	3162.	9986.	7831.	343.	6185.	0.051
			2121.	4208.	8791.	96.	-926.	5875.	0.022
24	0.3010	0.7799	347.	2715.	11468.	161.	-6496.	-2948.	0.035
9	0.25	0.40	727.	3384.	11668.	9713.	508.	5975.	0.054
			2154.	4243.	9403.	261.	-804.	7447.	0.023
24	0.3005	0.7807	437.	2785.	12376.	147.	-6609.	-2894.	0.023
10	0.17	0.52	812.	3631.	13020.	12355.	590.	6202.	0.048
			2338.	4323.	10289.	457.	-804.	7497.	0.018
24	0.3003	0.7811	674.	2872.	13110.	100.	-6754.	-2702.	0.084
11	0.25	0.49	870.	3707.	13775.	16244.	705.	6553.	0.056
			2706.	4400.	10753.	683.	-786.	7645.	0.014
24	0.3006	0.7805	180.	3120.	7388.	301.	-5146.	-126.	0.145
12	0.10	0.20	279.	3683.	7625.	480.	-999.	9343.	0.060
			3208.	4013.	6089.	-1521.	-2015.	9884.	0.014

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
24	0.3018	0.7774	178.	3055.	8462.	287.	-5298.	-596.	0.098
13	0.16	0.26	276.	3557.	8710.	-1393.	-851.	8903.	0.075
			3060.	3965.	7094.	-1242.	-1564.	9859.	0.006
24	0.3002	0.7796	189.	2957.	9888.	269.	-5534.	-1196.	0.054
14	0.18	0.28	498.	3496.	10008.	-2362.	-566.	8294.	0.073
			2918.	4140.	8201.	-938.	-1749.	9570.	0.005
24	0.3013	0.7790	233.	2981.	11834.	234.	-5704.	-1875.	0.035
15	0.18	0.38	637.	3580.	11429.	-2560.	-353.	7690.	0.062
			2774.	4406.	9244.	-738.	-1620.	9328.	0.025
24	0.3011	0.7781	341.	3240.	16101.	199.	-5915.	-2409.	0.038
16	0.20	0.48	849.	3876.	15407.	-1737.	-68.	7003.	0.088
			2702.	4912.	12686.	-462.	-1369.	8676.	0.012
24	0.3003	0.7812	439.	3361.	18304.	182.	-6020.	-2702.	0.054
17	0.20	0.54	654.	3976.	17131.	-665.	50.	6752.	0.068
			2656.	5008.	14206.	-318.	-1284.	8366.	0.017
24	0.3002	0.7817	521.	3380.	19574.	146.	-6112.	-2555.	0.091
18	0.19	0.47	728.	4079.	17988.	1590.	134.	6948.	0.080
			2669.	5036.	14864.	-183.	-1292.	8146.	0.012
25	0.2997	0.7820	141.	2293.	7922.	170.	-6313.	-2967.	0.065
3	0.13	0.28	337.	2814.	7959.	7721.	280.	5689.	0.063
			2037.	3240.	6280.	-265.	-871.	6384.	0.016
25	0.2988	0.7809	224.	2321.	8806.	158.	-6581.	-3329.	0.039
4	0.22	0.33	513.	2821.	8240.	10950.	562.	5207.	0.045
			1991.	3436.	6406.	126.	-710.	6349.	0.025
25	0.3004	0.7828	293.	2374.	9745.	146.	-6860.	-3793.	0.050
5	0.24	0.46	568.	3149.	9293.	14986.	869.	4743.	0.020
			1991.	3922.	7306.	543.	-495.	6189.	0.024
25	0.3016	0.7801	362.	2277.	10232.	133.	-7006.	-3902.	0.055
6	0.15	0.43	635.	3280.	10395.	17858.	1045.	4563.	0.041
			2003.	4330.	7853.	730.	-358.	5952.	0.022

TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
25	0.3005	0.7821	410.	2351.	10507.	122.	-7074.	-3950.	0.057
7	0.06	0.54	596.	3346.	10910.	19420.	1117.	4590.	0.047
			2079.	4523.	8363.	820.	-324.	5421.	0.018
25	0.3006	0.7798	211.	1783.	7211.	131.	-6714.	-3628.	0.030
8	0.17	0.19	368.	2072.	7080.	11718.	756.	4926.	0.043
			1471.	2751.	4817.	81.	-319.	5482.	0.021
25	0.3005	0.7802	247.	1827.	7701.	126.	-6827.	-3766.	0.030
9	0.15	0.23	422.	2168.	7423.	14054.	869.	4791.	0.027
			1482.	2818.	5651.	261.	-272.	5277.	0.025
25	0.3004	0.7812	288.	1868.	8136.	122.	-6949.	-3905.	0.037
10	0.19	0.29	450.	2277.	7692.	16637.	1003.	4628.	0.015
			1583.	3002.	5823.	452.	-196.	5172.	0.025
25	0.2999	0.7823	322.	1949.	8856.	120.	-7107.	-4155.	0.066
11	0.04	0.33	589.	2411.	8267.	19266.	1183.	4263.	0.033
			1549.	3291.	6584.	688.	-46.	4949.	0.030
25	0.3752	0.8276	339.	4755.	10278.	248.	-5164.	-330.	0.365
12	0.10	0.12	465.	5894.	11109.	4063.	-938.	8901.	0.063
			4971.	7327.	8466.	-1802.	-2173.	6842.	0.030
25	0.3747	0.8289	328.	4551.	9946.	235.	-5320.	-684.	0.380
13	0.10	0.10	436.	5666.	10907.	3247.	-757.	8565.	0.069
			4820.	6912.	8007.	-1479.	-2045.	6124.	0.035
25	0.3764	0.8270	291.	4380.	9674.	222.	-5501.	-1142.	0.374
14	0.03	0.17	292.	5455.	10271.	3140.	-562.	8125.	0.078
			4595.	6638.	7723.	-1167.	-1881.	6228.	0.034
25	0.3742	0.8304	282.	4207.	11870.	204.	-5669.	-1334.	0.312
15	-0.14	0.26	405.	5223.	11916.	3661.	-379.	7861.	0.093
			4263.	6312.	9341.	-887.	-1778.	6010.	0.028
25	0.3754	0.8282	292.	3964.	11681.	182.	-5866.	-1496.	0.285
16	0.10	0.41	664.	4934.	11959.	5285.	-153.	7016.	0.080
			3995.	6098.	9137.	-565.	-1547.	5703.	0.038

TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
25	0.3751	0.8265	345.	4092.	13873.	163.	-6029.	-1799.	0.221
17	0.07	0.41	819.	5049.	14312.	7686.	49.	7366.	0.071
			4049.	5952.	10970.	-247.	-1109.	5347.	0.042
25	0.3757	0.8270	379.	3977.	15326.	149.	-6134.	-1839.	0.187
18	0.13	0.32	929.	4881.	15261.	9799.	150.	7346.	0.060
			4218.	5841.	11606.	-32.	-900.	4381.	0.048
25	0.3751	0.8270	523.	4022.	16897.	135.	-6258.	-1539.	0.146
19	0.04	0.50	1347.	4729.	16844.	12990.	270.	7610.	0.048
			4522.	5707.	12606.	166.	-736.	3048.	0.049
26	0.3000	0.7815	264.	2388.	9135.	168.	-6665.	-3493.	0.053
3	0.13	0.40	520.	3155.	9158.	12864.	659.	4614.	0.040
			2063.	3721.	7523.	288.	-260.	5746.	0.036
26	0.2976	0.7850	228.	1981.	7794.	162.	-6623.	-3485.	0.045
4	0.03	0.35	478.	2446.	7436.	11639.	624.	4728.	0.047
			1664.	3092.	5864.	64.	-140.	5673.	0.014
26	0.2996	0.7833	293.	2139.	8976.	156.	-6861.	-3691.	0.061
5	0.20	0.35	547.	2811.	8622.	15940.	867.	4370.	0.049
			1903.	3481.	7287.	473.	16.	5434.	0.019
26	0.3026	0.7804	327.	2277.	9761.	151.	-7009.	-3883.	0.060
6	0.15	0.48	560.	2973.	8941.	18414.	1020.	4183.	0.053
			1914.	3901.	7410.	704.	102.	5314.	0.018
26	0.2997	0.7813	386.	2211.	9949.	144.	-7150.	-3936.	0.069
7	0.04	0.37	655.	3086.	9687.	21299.	1173.	4178.	0.064
			1842.	4252.	8228.	882.	214.	5090.	0.017
26	0.2989	0.7811	552.	2417.	10385.	130.	-7285.	-3608.	0.096
8	0.05	0.36	652.	3284.	10250.	25176.	1282.	4579.	0.086
			2213.	4436.	8070.	1084.	187.	5105.	0.016
26	0.3005	0.7803	270.	3259.	9822.	172.	-6162.	-2352.	0.263
9	0.13	0.12	626.	4087.	10565.	8889.	168.	6017.	0.091
			3444.	5088.	8295.	-351.	-392.	6321.	0.018

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
26	0.3769	0.8244	303.	3250.	9757.	165.	-6262.	-2352.	0.253
10	0.35	0.22	712.	3975.	10494.	10591.	281.	5992.	0.082
			3526.	4946.	8145.	-176.	-243.	6325.	0.026
26	0.3763	0.8255	363.	3624.	11815.	141.	-6503.	-2483.	0.208
11	0.21	0.28	899.	4312.	12103.	14548.	548.	5663.	0.078
			3980.	5531.	9455.	216.	9.	5943.	0.032
26	0.3770	0.8254	391.	3694.	13078.	157.	-6670.	-2551.	0.108
12	0.28	0.32	1069.	4327.	13335.	17219.	754.	5501.	0.080
			3975.	5519.	10521.	450.	251.	6299.	0.035
26	0.3775	0.8250	287.	2446.	7339.	130.	-6616.	-3203.	0.161
13	0.13	0.19	637.	2999.	8261.	12279.	681.	5241.	0.046
			2611.	3755.	6805.	-26.	403.	6417.	0.026
26	0.3774	0.8241	329.	2432.	7648.	126.	-6718.	-3260.	0.156
14	0.03	0.31	679.	2939.	8547.	15079.	800.	5169.	0.033
			2720.	3788.	7193.	185.	503.	6241.	0.028
26	0.3769	0.8253	336.	2469.	8474.	121.	-6839.	-3260.	0.080
15	0.34	0.16	840.	2996.	8980.	17750.	965.	4977.	0.060
			2866.	4017.	7334.	329.	683.	5892.	0.026
25	0.3733	0.8281	373.	2590.	9444.	125.	-6967.	-3370.	0.040
16	0.10	0.22	903.	3127.	9729.	20756.	1105.	4787.	0.080
			3029.	4120.	7752.	586.	793.	5528.	0.029
26	0.3757	0.8255	36.	232.	1284.	278.	-6609.	-3932.	0.015
17	0.08	0.09	104.	356.	1473.	2945.	696.	4574.	0.014
			296.	616.	1255.	-561.	142.	5538.	0.002
26	0.3750	0.8278	305.	4358.	9960.	292.	-4949.	394.	0.339
19	0.26	0.13	585.	5311.	9592.	1128.	-1198.	9477.	0.102
			4891.	6390.	7427.	-1832.	-1935.	9656.	0.029
26	0.3724	0.8313	292.	4226.	11598.	274.	-5135.	-276.	0.260
20	0.31	0.26	367.	5121.	11282.	-718.	-982.	8866.	0.108
			4608.	6150.	9062.	-1565.	-1832.	8934.	0.029

TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
26	0.3745	0.8285	301.	4193.	12403.	262.	-5234.	-585.	0.233
21	0.26	0.23	372.	5115.	12262.	-1233.	-868.	8593.	0.111
			4499.	6208.	9867.	-1436.	-1748.	8835.	0.025
26	0.3740	0.8297	307.	4213.	12921.	252.	-5300.	-669.	0.228
22	0.30	0.28	419.	5074.	13271.	-1436.	-780.	8551.	0.105
			4441.	6108.	10689.	-1298.	-1702.	8577.	0.023
26	0.3743	0.8293	310.	4168.	14401.	238.	-5369.	-1002.	0.243
23	0.08	0.38	638.	5004.	14440.	-1937.	-679.	8235.	0.096
			4263.	6156.	11552.	-1253.	-1603.	8518.	0.014
26	0.3719	0.8314	338.	4219.	15276.	219.	-5489.	-1458.	0.290
24	0.20	0.35	851.	4874.	14483.	-1558.	-542.	7776.	0.107
			4216.	6155.	11214.	-1111.	-1477.	8070.	0.008
26	0.3766	0.8246	313.	4243.	16742.	198.	-5603.	-1715.	0.228
25	0.26	0.25	906.	4935.	15858.	-1019.	-411.	7520.	0.103
			4156.	6066.	12264.	-958.	-1360.	7755.	0.014
26	0.3727	0.8295	43.	407.	1393.	280.	-6475.	-3589.	0.006
26	0.05	0.09	102.	689.	1945.	3058.	491.	5259.	0.011
			287.	1183.	2100.	-623.	-25.	1618.	0.002
28	0.3001	0.7749	222.	2200.	8211.	149.	-6549.	-3088.	0.052
3	2.92	-0.18	626.	2584.	8030.	9973.	509.	5621.	0.044
			2041.	3097.	7068.	88.	-528.	5466.	0.018
28	0.2996	0.7768	224.	2295.	8616.	155.	-6500.	-2924.	0.049
4	2.28	0.17	590.	2684.	8302.	9798.	455.	6038.	0.047
			2137.	3319.	7391.	69.	-624.	5531.	0.020
28	0.3024	0.7703	231.	1981.	7280.	130.	-6602.	-3178.	0.051
5	4.78	0.16	762.	2256.	7079.	10330.	577.	5787.	0.035
			1951.	2805.	6432.	87.	-361.	4255.	0.015
28	0.2991	0.7736	229.	2399.	8682.	166.	-6414.	-2772.	0.032
6	0.20	0.16	461.	2913.	8494.	8707.	380.	6362.	0.042
			2037.	3650.	8125.	30.	-732.	4068.	0.023

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
28	0.3027	0.7698	230.	2272.	8669.	150.	-6521.	-3033.	0.042
7	2.39	-0.37	616.	2712.	8616.	9715.	493.	5974.	0.052
			2162.	3298.	7640.	70.	-518.	3498.	0.019
28	0.3012	0.7719	230.	2209.	8254.	155.	-6501.	-2868.	0.058
8	2.70	1.20	628.	2631.	8122.	9910.	466.	6216.	0.040
			1974.	3175.	7108.	58.	-554.	3645.	0.019
28	0.3007	0.7732	228.	2198.	8175.	155.	-6522.	-2966.	0.057
9	2.40	0.50	615.	2629.	8036.	9806.	495.	6128.	0.043
			2014.	3210.	7182.	63.	-535.	3584.	0.020
28	0.3029	0.7697	329.	2500.	10077.	145.	-6663.	-3160.	0.045
10	0.62	-0.01	612.	3218.	10367.	12237.	660.	5876.	0.047
			2133.	3795.	9380.	392.	-526.	3583.	0.027
28	0.3032	0.7687	171.	1979.	6925.	156.	-6350.	-2866.	0.098
11	4.59	0.75	576.	2357.	6943.	6665.	334.	6283.	0.059
			2012.	2927.	6577.	-310.	-496.	2834.	0.011
28	0.3038	0.7730	212.	2204.	8024.	151.	-6518.	-2989.	0.057
12	2.70	0.34	637.	2611.	7906.	9716.	487.	6230.	0.043
			2021.	3117.	6908.	55.	-539.	2763.	0.019
28	0.3030	0.7702	215.	1842.	6823.	141.	-6598.	-3193.	0.047
13	3.08	0.39	583.	2136.	6694.	10210.	593.	5990.	0.041
			1796.	2794.	6298.	61.	-339.	2401.	0.011
28	0.3006	0.7701	217.	2423.	8850.	165.	-6379.	-2618.	0.039
14	2.04	0.25	552.	2882.	8844.	8426.	338.	6672.	0.051
			2174.	3526.	8023.	22.	-810.	2896.	0.021
30	0.2764	0.8245	203.	2256.	7164.	154.	-6433.	-2954.	0.122
3	2.95	0.52	668.	2760.	7985.	10084.	403.	6006.	0.004
			2017.	3332.	6809.	-174.	-557.	6882.	0.027
30	0.2784	0.8301	203.	2393.	7291.	150.	-6409.	-2918.	0.134
4	2.77	0.16	605.	2952.	7905.	9916.	377.	6281.	0.007
			2138.	3459.	6804.	-189.	-569.	6495.	0.027

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
30	0.2794	0.8286	217.	2186.	7217.	134.	-6411.	-2841.	0.160
5	5.24	0.34	655.	2634.	6885.	10174.	397.	6324.	0.007
			2302.	3327.	5266.	-241.	-475.	5954.	0.025
30	0.2780	0.8292	194.	2408.	8106.	167.	-6307.	-2687.	0.104
6	0.23	-0.09	446.	3154.	8871.	8672.	273.	6580.	0.005
			2142.	3850.	7019.	-199.	-783.	6584.	0.031
30	0.2793	0.8288	219.	2432.	7370.	130.	-6397.	-2895.	0.145
7	3.05	-1.33	609.	3002.	7975.	9893.	363.	6364.	0.007
			2238.	3522.	6902.	-210.	-600.	6513.	0.026
30	0.2788	0.8295	192.	2320.	7049.	134.	-6374.	-2797.	0.125
8	2.99	2.07	653.	2883.	7806.	9886.	350.	6477.	0.006
			2093.	3392.	6178.	-239.	-629.	6232.	0.026
30	0.2786	0.8297	212.	2369.	7178.	137.	-6374.	-2784.	0.133
9	2.72	0.30	589.	2914.	7740.	9844.	336.	6617.	0.008
			2162.	3434.	6417.	-227.	-674.	6497.	0.027
30	0.3794	0.8278	401.	3293.	11441.	136.	-6675.	-2754.	0.239
10	2.63	0.20	1128.	3842.	11292.	15918.	707.	5169.	0.072
			3888.	5031.	9462.	393.	6.	5359.	0.030
30	0.3800	0.8258	393.	3486.	11516.	137.	-6660.	-2643.	0.225
11	2.84	0.24	1264.	4100.	11652.	16043.	723.	5276.	0.075
			4106.	5428.	8719.	338.	128.	3234.	0.035
30	0.3789	0.8285	396.	2648.	9600.	118.	-6796.	-2943.	0.222
12	5.68	0.35	1470.	3235.	10176.	16497.	867.	5057.	0.043
			3504.	4274.	8526.	356.	347.	2945.	0.028
30	0.3776	0.8281	411.	4087.	13569.	152.	-6524.	-2312.	0.183
13	-0.10	0.13	965.	4684.	13768.	15357.	575.	5861.	0.066
			4295.	5859.	10017.	302.	-95.	3889.	0.041
30	0.3783	0.8291	403.	3419.	11291.	120.	-6709.	-2845.	0.224
14	2.72	-1.83	1272.	4003.	11557.	16297.	776.	5256.	0.056
			4007.	5148.	9221.	371.	196.	4945.	0.033

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
30	0.3792	0.8283	401.	3219.	11478.	130.	-6675.	-2626.	0.248
15	2.80	2.06	1431.	3847.	11331.	16417.	727.	5498.	0.052
			3795.	5136.	8517.	372.	148.	5086.	0.031
30	0.3784	0.8289	407.	3378.	11591.	119.	-6662.	-2584.	0.246
16	2.76	0.24	1396.	3983.	11480.	16315.	717.	5578.	0.054
			4012.	5303.	8981.	340.	137.	4662.	0.034
30	0.3773	0.8297	504.	4132.	16226.	104.	-6776.	-1854.	0.104
17	0.32	-0.71	1610.	4813.	16196.	22058.	852.	6407.	0.097
			4683.	6160.	11277.	674.	50.	5923.	0.035
30	0.3786	0.8260	328.	2599.	7684.	125.	-6547.	-2784.	0.252
18	5.21	0.80	1128.	3246.	8451.	11219.	594.	5635.	0.039
			3220.	4235.	6827.	-22.	-136.	3183.	0.018
30	0.3777	0.8298	463.	4110.	13601.	119.	-6489.	-2166.	0.254
19	2.03	0.37	1290.	4759.	13671.	15368.	523.	6304.	0.051
			4553.	6246.	10443.	315.	-366.	3264.	0.043
30	0.3784	0.8289	376.	2704.	9486.	108.	-6745.	-2947.	0.223
20	3.30	0.39	1193.	3227.	9618.	16506.	823.	5498.	0.044
			3375.	4450.	9027.	312.	227.	-3099.	0.020
32	0.3766	0.8271	313.	4732.	10061.	309.	-5159.	357.	0.342
3	0.16	0.01	621.	5400.	9541.	1244.	-1129.	10068.	0.106
			5006.	4403.	7179.	-1769.	-1942.	7140.	0.026
32	0.3755	0.8268	304.	4531.	11225.	291.	-5342.	-207.	0.262
4	0.22	0.22	417.	5095.	10979.	-521.	-917.	9520.	0.110
			4632.	4136.	8720.	-1533.	-1825.	6599.	0.028
32	0.3756	0.8259	314.	4577.	12142.	278.	-5405.	-340.	0.244
5	0.20	0.02	408.	5173.	12258.	-1053.	-853.	9441.	0.111
			4584.	197.	9890.	-1410.	-1821.	6581.	0.025
37	0.3769	0.8941	406.	3967.	13713.	55.	-6109.	-1539.	0.415
3	0.20	0.22	656.	4980.	13336.	11024.	176.	7554.	0.025
			4021.	6560.	9449.	-450.	-2.	5843.	0.038

TAPERED TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
57	0.3740	0.8970	419.	NA	NA	33.	NA	NA	0.400
5	0.04	0.18	848.	4860.	NA	12869.	471.	NA	0.049
			NA	NA	NA	NA	NA	NA	0.043
57	0.3753	0.8974	471.	NA	NA	13.	NA	NA	0.358
6	0.14	0.43	1162.	4866.	NA	17833.	765.	NA	0.058
			NA	NA	NA	NA	NA	NA	0.039
57	0.3757	0.8951	518.	NA	NA	4.	NA	NA	0.315
7	0.05	0.46	1527.	5014.	NA	21455.	966.	NA	0.054
			NA	NA	NA	NA	NA	NA	0.032
57	0.3762	0.9374	226.	NA	NA	-3.	NA	NA	0.190
8	0.01	0.40	1168.	4350.	NA	11243.	324.	NA	0.104
			NA	NA	NA	NA	NA	NA	0.063
58	0.3741	0.9384	227.	NA	NA	39.	NA	NA	0.176
3	0.11	0.26	1051.	4468.	NA	11319.	102.	NA	0.061
			NA	NA	NA	NA	NA	NA	0.068
58	0.3742	0.9393	249.	NA	NA	16.	NA	NA	0.185
4	-0.01	0.49	1252.	4561.	NA	15423.	346.	NA	0.071
			NA	NA	NA	NA	NA	NA	0.069
58	0.3737	0.9388	305.	NA	NA	-5.	NA	NA	0.190
5	-0.18	0.46	1511.	4504.	NA	18210.	450.	NA	0.084
			NA	NA	NA	NA	NA	NA	0.071
58	0.3765	0.9376	366.	NA	NA	-14.	NA	NA	0.217
6	-0.07	0.52	1486.	4551.	NA	21402.	577.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.066
58	0.3748	0.9378	370.	NA	NA	-23.	NA	NA	0.188
7	0.15	0.46	1556.	4576.	NA	23113.	638.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.065
58	0.3744	0.9395	245.	NA	NA	45.	NA	NA	0.228
8	0.23	0.27	1150.	4933.	NA	10492.	-82.	NA	0.104
			NA	NA	NA	NA	NA	NA	0.057

TAPERED TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
58	0.3742	0.9398	244.	NA	NA	34.	NA	NA	0.243
9	0.06	0.41	1220.	5059.	NA	12118.	45.	NA	0.120
			NA	NA	NA	NA	NA	NA	0.050
58	0.3798	0.9298	282.	NA	NA	54.	NA	NA	0.273
10	0.06	0.44	895.	5011.	NA	9652.	-54.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.055
58	0.3796	0.9308	327.	NA	NA	31.	NA	NA	0.276
11	-0.12	0.52	1232.	5060.	NA	13240.	132.	NA	0.113
			NA	NA	NA	NA	NA	NA	0.053
58	0.3756	0.9393	351.	NA	NA	-4.	NA	NA	0.260
12	0.30	0.29	1670.	4864.	NA	16572.	313.	NA	0.115
			NA	NA	NA	NA	NA	NA	0.059
58	0.3741	0.9408	273.	NA	NA	-13.	NA	NA	0.100
15	0.24	0.33	1168.	3964.	NA	19085.	627.	NA	0.075
			NA	NA	NA	NA	NA	NA	0.055
58	0.3730	0.9425	355.	NA	NA	-32.	NA	NA	0.098
16	-0.01	0.26	1504.	4061.	NA	24539.	797.	NA	0.080
			NA	NA	NA	NA	NA	NA	0.055
58	0.3749	0.9655	284.	NA	NA	-51.	NA	NA	0.063
17	0.30	0.30	1451.	3889.	NA	19583.	509.	NA	0.082
			NA	NA	NA	NA	NA	NA	0.061
58	0.3743	0.9667	402.	NA	NA	-90.	NA	NA	0.238
18	0.24	0.45	1805.	4107.	NA	28505.	764.	NA	0.089
			NA	NA	NA	NA	NA	NA	0.069
58	0.3744	0.9671	300.	NA	NA	-48.	NA	NA	0.089
19	0.17	0.33	1459.	4559.	NA	18112.	225.	NA	0.083
			NA	NA	NA	NA	NA	NA	0.065
58	0.3752	0.9656	320.	NA	NA	-60.	NA	NA	0.113
20	0.14	0.40	1494.	4660.	NA	20540.	311.	NA	0.094
			NA	NA	NA	NA	NA	NA	0.067

	RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
TAPERED TIP	58	0.3732	0.9692	371.	NA	NA	-80.	NA	NA	0.157
	21	0.13	0.45	1721.	4776.	NA	24126.	423.	NA	0.120
				NA	NA	NA	NA	NA	NA	0.086
	58	0.3740	0.9670	411.	NA	NA	-84.	NA	NA	0.289
	22	0.16	0.58	1892.	4826.	NA	27953.	587.	NA	0.108
				NA	NA	NA	NA	NA	NA	0.047
	58	0.3753	0.9650	267.	NA	NA	-0.	NA	NA	0.213
	23	0.20	0.60	1371.	5034.	NA	12661.	-91.	NA	0.138
				NA	NA	NA	NA	NA	NA	0.062
	58	0.3742	0.9665	311.	NA	NA	-36.	NA	NA	0.269
	24	0.39	0.16	1624.	5111.	NA	16516.	100.	NA	0.160
				NA	NA	NA	NA	NA	NA	0.059
	58	0.3753	0.9655	54.	NA	NA	187.	NA	NA	0.007
	26	0.28	0.33	105.	571.	NA	3069.	539.	NA	0.013
				NA	NA	NA	NA	NA	NA	0.002

RECTANGULAR TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
39	0.2006	0.7202	66.	1650.	4700.	241.	-6027.	-2546.	0.039
3	0.21	0.30	179.	2043.	5441.	3856.	-90.	4178.	0.053
			1368.	2638.	4702.	-604.	-1635.	4444.	0.012
39	0.2008	0.7186	104.	1554.	4500.	221.	-6241.	-2925.	0.062
4	0.25	0.32	279.	1853.	4975.	5331.	192.	3248.	0.035
			1292.	2585.	5043.	-285.	-1420.	5250.	0.014
39	0.2013	0.7179	184.	1642.	7612.	200.	-6457.	-3258.	0.058
5	0.14	0.22	362.	2129.	7226.	7491.	485.	2032.	0.095
			1128.	3227.	5926.	27.	-1191.	5476.	0.003
39	0.2008	0.7204	275.	1907.	8749.	199.	-6699.	-3565.	0.090
6	0.12	0.45	578.	2509.	8047.	10494.	811.	-250.	0.093
			1237.	3598.	6569.	385.	-1333.	5309.	0.007
39	0.2014	0.7173	332.	2080.	9205.	204.	-6819.	-3606.	0.108
7	0.22	0.39	666.	2772.	8497.	12489.	982.	-860.	0.112
			1383.	3823.	6566.	80.	-747.	5131.	0.009
39	0.2014	0.7152	419.	2028.	8760.	[illegible]	-6939.	-3651.	0.124
8	0.16	0.54	730.	2657.	8357.	14620.	1139.	-1408.	0.124
			1319.	3579.	6519.	748.	-432.	4819.	0.013
39	0.2017	0.7159	90.	1448.	4613.	224.	-6328.	-3113.	0.044
9	0.15	0.27	267.	1791.	5042.	5675.	299.	-259.	0.037
			1143.	2407.	4282.	-279.	-1352.	4638.	0.006
39	0.2013	0.7182	180.	1572.	7601.	199.	-6527.	-3397.	0.043
10	0.29	0.28	262.	1933.	7514.	8139.	562.	-736.	0.086
			1115.	2935.	5815.	37.	-1242.	4737.	0.003
39	0.2015	0.7175	282.	1949.	8875.	195.	-6823.	-3814.	0.083
11	0.29	0.40	403.	2588.	8369.	11929.	949.	-1504.	0.101
			1350.	3705.	6938.	445.	-1007.	4486.	0.005
39	0.2007	0.7190	377.	2256.	9241.	192.	-7062.	-4098.	0.137
12	0.20	0.45	653.	2907.	8625.	16203.	1261.	-2124.	0.114
			1642.	4062.	6950.	840.	-654.	4083.	0.014

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
39	0.2006	0.7199	444.	2177.	8862.	180.	-7170.	-4190.	0.149
13	0.19	0.45	638.	2787.	8316.	18421.	1402.	-2393.	0.100
			1530.	3883.	6325.	987.	-52.	4189.	0.020
39	0.2018	0.7177	99.	2068.	5307.	266.	-5575.	-1623.	0.086
15	0.05	0.01	160.	2651.	6588.	3423.	-693.	3774.	0.052
			2146.	3489.	5727.	-1190.	-2195.	5096.	0.018
39	0.2017	0.7184	82.	1894.	4744.	256.	-5724.	-1937.	0.051
16	0.13	0.06	127.	2380.	5860.	2949.	-466.	3184.	0.055
			1908.	3002.	5145.	-949.	-2117.	4830.	0.017
39	0.2008	0.7169	82.	1690.	4748.	245.	-5904.	-2156.	0.037
17	0.14	0.18	131.	2039.	5417.	3319.	-199.	2713.	0.051
			1434.	2531.	4450.	-653.	-1787.	4658.	0.011
39	0.2024	0.7154	124.	1612.	5225.	220.	-6121.	-2559.	0.063
18	0.14	0.28	254.	2004.	5773.	4412.	77.	2005.	0.049
			1268.	2779.	5195.	-322.	-1653.	4741.	0.010
39	0.2012	0.7176	190.	1590.	7729.	206.	-6293.	-2749.	0.058
19	0.29	0.26	315.	2048.	7041.	6102.	314.	1358.	0.025
			1150.	3141.	7068.	-46.	-1514.	4832.	0.001
39	0.2015	0.7178	275.	1879.	8107.	212.	-6520.	-2933.	0.101
20	0.10	0.36	582.	2441.	7973.	8972.	626.	98.	0.103
			1276.	3534.	7474.	347.	-1225.	4750.	0.009
39	0.2013	0.7181	336.	1973.	8735.	215.	-6629.	-3031.	0.111
21	0.21	0.42	674.	2620.	8219.	10646.	774.	-237.	0.110
			1368.	3716.	7569.	523.	-862.	4874.	0.011
39	0.2022	0.7160	432.	1909.	8681.	211.	-6735.	-2985.	0.112
22	0.25	0.51	776.	2614.	8291.	12737.	920.	-360.	0.122
			1352.	3700.	7491.	697.	-391.	4919.	0.010
39	0.2021	0.7165	125.	1909.	5319.	312.	-5482.	-982.	0.004
23	0.15	0.37	206.	2302.	5892.	-627.	-658.	2946.	0.076
			1694.	2760.	4624.	-953.	-2210.	5679.	0.003

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
39	0.2019	0.7149	133.	1971.	7852.	298.	-5658.	-1382.	0.073
24	0.19	0.36	262.	2323.	8063.	-1474.	-430.	2380.	0.110
			1714.	2792.	6522.	-689.	-2103.	5426.	0.001
39	0.2015	0.7156	223.	1961.	7454.	278.	-5824.	-1734.	0.102
25	0.16	0.47	252.	2375.	7522.	-1886.	-223.	1891.	0.093
			1717.	2979.	6117.	-408.	-1997.	5335.	0.001
39	0.2009	0.7172	279.	2035.	10424.	264.	-6048.	-1968.	0.104
26	0.33	0.38	373.	2464.	10142.	-1144.	61.	1519.	0.116
			1782.	3426.	8413.	-138.	-1870.	5283.	0.003
39	0.2019	0.7178	362.	2092.	12700.	257.	-6254.	-2088.	0.135
27	0.25	0.54	650.	2681.	12161.	648.	322.	1275.	0.125
			1731.	3811.	10313.	167.	-1752.	5373.	0.007
39	0.2014	0.7185	399.	2178.	13234.	249.	-6362.	-2229.	0.131
28	0.19	0.71	698.	2658.	12493.	2158.	435.	1282.	0.116
			1726.	3851.	10646.	302.	-1580.	5512.	0.007
39	0.2021	0.7153	116.	1956.	4563.	315.	-5339.	-666.	0.031
29	0.22	0.10	182.	2375.	5200.	936.	-852.	3475.	0.065
			1796.	2841.	4151.	-1207.	-2454.	5765.	0.005
40	0.3016	0.7780	122.	2704.	6368.	149.	-6570.	-2695.	0.125
3	0.24	0.12	289.	2881.	7087.	5416.	102.	2540.	0.066
			2240.	3474.	5115.	-535.	-1835.	3812.	0.031
40	0.3009	0.7796	143.	2575.	7751.	127.	-6831.	-3019.	0.083
4	0.26	0.32	366.	2673.	8033.	7720.	324.	2125.	0.072
			2019.	3212.	6153.	-192.	-1674.	3836.	0.023
40	0.2997	0.7813	229.	2730.	8747.	101.	-7056.	-3318.	0.055
5	0.13	0.36	433.	2833.	8366.	10793.	563.	1773.	0.057
			1978.	3444.	6448.	173.	-1577.	3821.	0.030
40	0.2996	0.7799	320.	2728.	9609.	104.	-7438.	-3788.	0.046
6	0.16	0.33	531.	3047.	8882.	14743.	900.	1222.	0.022
			2024.	3649.	6746.	582.	-1284.	3464.	0.030

RECTANGULAR TTP

RUN PT	V/DR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
40	0.3005	0.7792	384.	2733.	10541.	96.	-7611.	-4021.	0.037
7	0.21	0.43	642.	3173.	10074.	17450.	1083.	989.	0.026
			2034.	4105.	7752.	773.	-1123.	3345.	0.025
40	0.3005	0.7808	476.	2816.	10568.	75.	-7798.	-4151.	0.014
8	0.27	0.47	680.	3068.	10853.	20880.	1240.	1002.	0.057
			2287.	4328.	8167.	966.	-904.	3500.	0.023
40	0.3019	0.7775	116.	1945.	5516.	112.	-7039.	-3478.	0.087
9	0.22	0.21	368.	2022.	5868.	7117.	584.	2774.	0.070
			1490.	2524.	4555.	-260.	-946.	2983.	0.020
40	0.3008	0.7804	226.	2008.	6847.	99.	-7244.	-3616.	0.043
10	0.22	0.26	370.	2065.	6912.	11297.	759.	2804.	0.058
			1531.	2707.	5120.	88.	-837.	3230.	0.018
40	0.3009	0.7789	309.	2081.	7962.	85.	-7556.	-4007.	0.035
11	0.25	0.35	480.	2212.	7672.	16278.	1066.	1677.	0.027
			1536.	2895.	5725.	497.	-639.	3026.	0.023
40	0.2981	0.7844	390.	2133.	9252.	81.	-7879.	-4279.	0.050
12	0.24	0.24	649.	2397.	8614.	22122.	1395.	1232.	0.056
			1646.	3389.	6856.	889.	-376.	2743.	0.030
40	0.2995	0.7808	440.	2293.	9681.	60.	-7985.	-4180.	0.033
13	0.22	0.32	656.	2532.	8987.	25400.	1480.	1313.	0.057
			1819.	3732.	6862.	1101.	-380.	2931.	0.022
40	0.2999	0.7810	170.	3616.	6393.	218.	-5647.	-770.	0.228
14	0.18	0.03	261.	4158.	8665.	3823.	-733.	6274.	0.046
			2986.	5224.	6895.	-1516.	-2486.	4786.	0.032
40	0.3012	0.7800	147.	3503.	6265.	205.	-5861.	-1218.	0.165
15	0.16	0.01	209.	3838.	7724.	3068.	-550.	5838.	0.059
			2896.	4614.	6050.	-1183.	-2443.	4576.	0.030
40	0.3009	0.7793	126.	3301.	6536.	193.	-6098.	-1615.	0.150
16	0.20	0.28	233.	3528.	6929.	3259.	-348.	5473.	0.069
			2794.	4112.	4861.	-834.	-2428.	4522.	0.030

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TI4 ACC / LN4 ACC
40	0.2997	0.7821	131.	3128.	7510.	168.	-6356.	-2064.	0.054
17	0.21	0.26	367.	3314.	7788.	4175.	-114.	5084.	0.061
			2513.	3732.	5726.	-531.	-2351.	4404.	0.027
40	0.3007	0.7790	178.	3049.	8648.	150.	-6597.	-2359.	0.070
18	0.13	0.44	428.	3196.	8851.	5601.	110.	4657.	0.077
			2378.	3843.	6609.	-209.	-2116.	4284.	0.028
40	0.2992	0.7818	293.	3180.	9611.	130.	-6833.	-2604.	0.059
19	0.21	0.41	446.	3333.	9744.	7884.	345.	4406.	0.048
			2293.	4216.	7300.	102.	-1847.	4305.	0.027
40	0.2997	0.7832	417.	3298.	12179.	95.	-7126.	-2860.	0.008
20	0.25	0.45	795.	3650.	12704.	12107.	619.	4159.	0.053
			2545.	4252.	9045.	493.	-1842.	4540.	0.025
40	0.3013	0.7802	602.	3241.	12341.	77.	-7298.	-2777.	0.044
21	0.33	0.54	874.	3580.	13289.	15729.	734.	4311.	0.068
			2790.	4205.	9329.	706.	-1720.	4865.	0.016
41	0.3002	0.7804	168.	3249.	7854.	205.	-5243.	-404.	0.145
3	0.33	0.16	272.	3892.	7510.	1645.	-933.	8650.	0.060
			3281.	4340.	5907.	-1380.	-2765.	6260.	0.039
41	0.3012	0.7805	161.	3084.	8317.	188.	-5458.	-964.	0.099
4	0.25	0.12	238.	3655.	8380.	106.	-711.	8103.	0.070
			3027.	4069.	6721.	-1050.	-2486.	5998.	0.044
41	0.2996	0.7827	186.	3044.	9158.	178.	-5649.	-1392.	0.048
5	0.12	0.34	351.	3585.	9304.	-884.	-483.	7621.	0.080
			2945.	4142.	7562.	-758.	-2310.	5802.	0.039
41	0.2995	0.7814	222.	2942.	10516.	145.	-5849.	-2096.	0.054
6	0.16	0.30	550.	3549.	10096.	-839.	-232.	6966.	0.071
			2787.	4282.	8111.	-530.	-2106.	5475.	0.038
41	0.2994	0.7824	337.	3055.	14335.	119.	-6094.	-2652.	0.020
7	0.16	0.50	690.	3815.	13974.	273.	93.	6269.	0.073
			2698.	4862.	11579.	-233.	-1758.	5132.	0.044

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
41	0.3020	0.7779	398.	3140.	16087.	99.	-6187.	-2889.	0.029
8	0.19	0.74	705.	3803.	15502.	1226.	198.	5936.	0.101
			2509.	4829.	12766.	-95.	-1677.	5018.	0.039
41	0.2988	0.7856	518.	3211.	17009.	72.	-6322.	-3008.	0.034
9	0.37	0.52	797.	3865.	16032.	3394.	334.	5887.	0.077
			2543.	4769.	13242.	60.	-1713.	5195.	0.039
41	0.3787	0.8277	316.	3595.	10638.	73.	-6303.	-2487.	0.348
10	0.41	0.37	671.	4504.	11349.	9482.	321.	5967.	0.090
			3787.	5802.	9091.	-154.	-1233.	4310.	0.029
41	0.3759	0.8271	317.	3573.	10128.	68.	-6314.	-2489.	0.341
11	0.25	0.23	582.	4447.	10987.	9451.	322.	5877.	0.088
			3704.	5781.	8272.	-121.	-1305.	4335.	0.032
41	0.3767	0.8253	354.	3600.	10746.	41.	-6407.	-2543.	0.370
12	0.16	0.28	759.	4479.	11318.	11233.	424.	5653.	0.081
			3965.	5896.	8917.	23.	-1276.	4278.	0.035
41	0.3777	0.8248	419.	3735.	11422.	48.	-6654.	-2729.	0.320
13	0.17	0.54	1000.	4501.	12128.	15406.	712.	5225.	0.075
			4161.	5957.	10135.	436.	-1029.	4033.	0.036
41	0.3754	0.8283	428.	3852.	12633.	38.	-6810.	-2814.	0.263
14	0.22	0.34	1148.	4558.	12987.	18057.	895.	5020.	0.064
			4209.	5881.	10172.	632.	-827.	3995.	0.037
41	0.3748	0.8296	497.	3955.	13494.	53.	-6944.	-2694.	0.222
15	0.36	0.43	1453.	4753.	13930.	21625.	1038.	5048.	0.061
			4522.	6192.	11923.	871.	-377.	4290.	0.040
41	0.3775	0.8254	271.	2564.	7479.	39.	-6640.	-3368.	0.251
16	0.30	0.40	470.	3196.	8348.	10168.	726.	4800.	0.070
			2662.	4201.	6409.	-51.	-411.	3391.	0.033
41	0.3758	0.8283	361.	2789.	8044.	22.	-6839.	-3460.	0.272
17	0.02	0.19	817.	3353.	9144.	16079.	928.	4636.	0.045
			3131.	4505.	7830.	352.	-204.	3500.	0.042

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
41	0.3773	0.8258	411.	2798.	9631.	26.	-7124.	-3650.	0.176
18	0.13	0.38	1041.	3396.	10314.	21598.	1256.	3916.	0.077
			3288.	4433.	8962.	787.	97.	3041.	0.032
41	0.3755	0.8296	434.	2784.	9798.	24.	-7165.	-3542.	0.161
19	0.26	0.36	1076.	3426.	10543.	23298.	1322.	3886.	0.065
			3335.	4735.	9232.	833.	226.	3061.	0.034
41	0.3776	0.8253	300.	4721.	9927.	161.	-5234.	-419.	0.365
20	0.12	0.20	401.	5806.	10874.	4361.	-898.	8206.	0.060
			4887.	7174.	9105.	-1666.	-2162.	5818.	0.032
41	0.3777	0.8253	323.	4771.	10581.	149.	-5381.	-727.	0.402
21	0.20	0.10	410.	5880.	11562.	3389.	-723.	7795.	0.070
			4941.	7251.	8955.	-1326.	-2013.	5713.	0.039
41	0.3772	0.8261	293.	4565.	9812.	132.	-5551.	-1171.	0.401
22	0.54	0.24	345.	5620.	10887.	3552.	-534.	7302.	0.073
			4651.	6970.	8865.	-1055.	-1841.	5449.	0.038
41	0.3772	0.8267	290.	4303.	11976.	113.	-5761.	-1499.	0.373
23	0.26	0.28	398.	5339.	11809.	4209.	-297.	6845.	0.082
			4249.	6543.	9970.	-733.	-1667.	5200.	0.034
41	0.3747	0.8300	329.	4197.	12061.	98.	-5937.	-1654.	0.339
24	0.14	0.16	716.	5138.	11936.	5664.	-71.	6543.	0.073
			4137.	6297.	10010.	-444.	-1291.	5019.	0.044
41	0.3750	0.8285	376.	4181.	13678.	68.	-6118.	-1969.	0.308
25	0.09	0.45	882.	5142.	14071.	8430.	145.	6121.	0.083
			4282.	6179.	11723.	-97.	-1054.	4859.	0.051
41	0.3775	0.8238	404.	4091.	14765.	54.	-6223.	-1985.	0.257
26	0.08	0.37	1122.	5025.	15330.	10622.	244.	6187.	0.065
			4517.	6083.	12967.	101.	-898.	5009.	0.055
41	0.3770	0.8252	508.	4103.	15909.	28.	-6354.	-1867.	0.254
27	0.34	0.46	1367.	4832.	16399.	13836.	378.	6143.	0.054
			4790.	5958.	14192.	319.	-333.	5158.	0.060

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
41	0.3750	0.8291	654.	4341.	17246.	17.	-6341.	-1481.	0.285
28	0.03	0.65	1606.	5129.	17666.	15875.	367.	5791.	0.063
			5334.	6348.	14944.	377.	-255.	5577.	0.059
42	0.2986	0.7880	234.	2501.	9177.	53.	-6604.	-3079.	0.074
3	2.12	-0.34	529.	2900.	8644.	10341.	553.	4751.	0.058
			2227.	3547.	7065.	172.	-432.	3274.	0.021
42	0.3008	0.7881	232.	2399.	8548.	44.	-6606.	-2996.	0.081
4	2.26	-0.01	512.	2786.	8093.	10402.	559.	4826.	0.059
			2141.	3432.	6812.	166.	-406.	3230.	0.023
42	0.3013	0.7874	232.	2202.	7325.	37.	-6681.	-3144.	0.083
5	4.60	0.15	759.	2501.	7264.	11006.	659.	4633.	0.046
			2135.	3074.	6308.	148.	-210.	2533.	0.020
42	0.3011	0.7868	234.	2612.	9666.	67.	-6464.	-2616.	0.055
6	-0.56	-0.07	474.	3132.	9289.	8762.	417.	5263.	0.064
			2180.	3898.	7931.	116.	-638.	3147.	0.029
42	0.3022	0.7858	242.	2499.	9482.	45.	-6603.	-3044.	0.063
7	2.05	-3.14	624.	2918.	8910.	10198.	558.	4840.	0.061
			2420.	3572.	7295.	153.	-418.	2547.	0.022
42	0.3015	0.7875	252.	2475.	8793.	57.	-6569.	-2746.	0.085
8	2.11	1.39	637.	2902.	8712.	10357.	525.	5098.	0.058
			2214.	3480.	7116.	125.	-453.	2839.	0.025
42	0.3018	0.7842	221.	2452.	8756.	49.	-6599.	-2989.	0.070
9	2.11	-0.92	541.	2808.	8285.	10206.	547.	4930.	0.060
			2160.	3576.	7482.	168.	-448.	2717.	0.020
42	0.3004	0.7866	318.	2627.	10180.	50.	-6757.	-3037.	0.036
10	0.25	-1.33	583.	3275.	9632.	12908.	717.	4856.	0.041
			2158.	3959.	8279.	527.	-422.	2869.	0.029
42	0.3019	0.7836	177.	2187.	7301.	52.	-6416.	-2685.	0.128
11	4.17	-0.34	555.	2589.	7399.	7262.	364.	5243.	0.067
			2278.	3299.	6374.	-237.	-448.	2353.	0.012

RECTANGULAR TIP

RUN / PT	V/OR / R1C	MAT / S1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
42	0.3022	0.7865	237.	2465.	8784.	52.	-6547.	-2735.	0.081
12	2.11	0.20	550.	2833.	8417.	10177.	496.	5198.	0.062
			2199.	3518.	7099.	105.	-490.	2499.	0.022
42	0.3021	0.7846	351.	2568.	9978.	49.	-6778.	-3128.	0.034
13	0.14	-0.13	544.	3212.	9699.	12943.	748.	4826.	0.025
			2075.	3957.	8186.	538.	-387.	2768.	0.025
42	0.3016	0.7843	180.	2098.	7289.	48.	-6414.	-2686.	0.123
14	4.11	0.77	609.	2488.	7375.	7493.	377.	5349.	0.057
			2150.	3109.	6459.	-246.	-422.	2310.	0.014
42	0.3026	0.7843	242.	2432.	8669.	50.	-6570.	-2787.	0.080
15	2.15	0.27	537.	2777.	8280.	10209.	519.	5197.	0.058
			2152.	3499.	6955.	129.	-471.	2404.	0.021
42	0.3024	0.7837	231.	2080.	7872.	42.	-6664.	-3045.	0.064
16	2.57	0.14	531.	2345.	7705.	10819.	634.	4890.	0.063
			1985.	3006.	6212.	140.	-257.	2016.	0.016
42	0.3029	0.7843	236.	2584.	9308.	60.	-6468.	-2534.	0.058
17	1.75	0.02	471.	2936.	8821.	8912.	412.	5533.	0.062
			2220.	3745.	7311.	117.	-659.	2506.	0.025
42	0.3024	0.7840	239.	2403.	8458.	49.	-6573.	-2804.	0.082
18	2.26	0.06	529.	2762.	8216.	10183.	526.	5254.	0.061
			2104.	3455.	6762.	120.	-446.	2176.	0.021
42	0.3027	0.7838	237.	2374.	8588.	53.	-6573.	-2809.	0.082
19	2.19	0.27	528.	2723.	8183.	10131.	522.	5313.	0.057
			2134.	3414.	6715.	128.	-448.	2156.	0.022
42	0.3032	0.7835	241.	2407.	8508.	55.	-6549.	-2711.	0.100
20	2.33	0.76	544.	2744.	8094.	10129.	498.	5418.	0.057
			2231.	3433.	6665.	88.	-491.	2185.	0.024
42	0.3040	0.7835	222.	2419.	8461.	57.	-6587.	-2877.	0.072
21	2.16	-0.23	535.	2819.	8363.	10115.	540.	5279.	0.061
			2146.	3436.	6727.	152.	-436.	2066.	0.019

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TL4 ACC / LN4 ACC
42	0.3759	0.8257	278.	4486.	10432.	181.	-5014.	613.	0.372
24	0.13	0.20	575.	5537.	10244.	1177.	-1177.	8821.	0.126
			4894.	6773.	8508.	-1720.	-2099.	4505.	0.024
42	0.3750	0.8250	291.	4250.	11918.	161.	-5234.	-113.	0.264
25	0.13	0.32	391.	5141.	11540.	-615.	-924.	8155.	0.135
			4486.	6296.	9469.	-1438.	-1884.	4039.	0.025
42	0.3742	0.8288	305.	4201.	13350.	143.	-5419.	-545.	0.235
26	0.03	0.57	528.	5049.	13794.	-1566.	-690.	7812.	0.131
			4319.	6236.	11352.	-1192.	-1709.	3810.	0.023
42	0.3760	0.8255	328.	4264.	15590.	107.	-5602.	-1210.	0.293
27	0.28	0.44	793.	5082.	15077.	-1291.	-450.	7142.	0.113
			4210.	6324.	12224.	-959.	-1467.	3354.	0.012
42	0.3764	0.8246	316.	4282.	16901.	95.	-5727.	-1541.	0.256
28	0.15	0.45	825.	4991.	16009.	-880.	-298.	6774.	0.132
			4146.	6185.	12786.	-790.	-1316.	3083.	0.015
42	0.3758	0.8252	378.	4392.	18645.	75.	-5834.	-1829.	0.220
29	0.15	0.66	1006.	5184.	18302.	49.	-173.	6498.	0.138
			4303.	6453.	14683.	-614.	-1227.	2992.	0.018
42	0.3739	0.8280	398.	4251.	20223.	63.	-5895.	-1784.	0.227
30	0.30	0.33	1146.	4972.	19073.	822.	-88.	6515.	0.116
			4036.	6301.	15380.	-581.	-1128.	2946.	0.017
43	0.3852	0.8343	450.	3701.	12544.	102.	-6753.	-2537.	0.324
3	2.17	-0.08	1336.	4337.	12428.	17076.	825.	6158.	0.061
			4405.	5720.	9128.	447.	-126.	4175.	0.048
43	0.3859	0.8313	447.	3645.	12061.	103.	-6761.	-2592.	0.326
4	2.33	-0.06	1400.	4267.	11980.	16959.	829.	6285.	0.056
			4329.	5680.	9083.	454.	-122.	4057.	0.045
43	0.3865	0.8336	442.	3029.	10395.	81.	-6835.	-2737.	0.325
5	5.21	0.21	1559.	3662.	11058.	16941.	940.	6157.	0.049
			3887.	5223.	8238.	416.	106.	3649.	0.048

RECTANGULAR TIP

PUN PT	V/OR BIC	MAT BIS	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	E5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC LN4 ACC
43	0.3861	0.8311	446.	4195.	13627.	104.	-6598.	-2257.	0.289
6	-0.21	0.07	1128.	4886.	13955.	16083.	647.	6896.	0.068
			4613.	6173.	10295.	407.	-399.	4252.	0.041
43	0.3886	0.8288	416.	3613.	12213.	77.	-6772.	-2728.	0.251
7	2.23	-2.14	1364.	4237.	12373.	16624.	868.	6181.	0.075
			4374.	5504.	9509.	449.	-55.	3430.	0.042
43	0.3891	0.8283	443.	3561.	11383.	88.	-6718.	-2543.	0.338
8	2.54	1.22	1301.	4211.	11427.	16824.	795.	6460.	0.064
			4271.	5677.	8924.	450.	-145.	3735.	0.043
43	0.3890	0.8275	486.	3634.	12369.	31.	-6718.	-2528.	0.312
9	2.38	-0.08	1378.	4257.	12366.	16709.	804.	6423.	0.064
			4364.	5668.	9455.	409.	-147.	3720.	0.041
43	0.3893	0.8269	490.	3957.	13802.	75.	-6797.	-2397.	0.223
10	1.26	-0.58	1296.	4627.	14016.	18973.	890.	6481.	0.082
			4488.	5986.	10335.	615.	-108.	3875.	0.043
43	0.3899	0.8253	405.	3163.	10355.	90.	-6628.	-2516.	0.326
11	3.72	0.06	1180.	3804.	10576.	14303.	695.	6525.	0.051
			3872.	5148.	8352.	211.	-174.	3741.	0.039
43	0.3907	0.8254	416.	3667.	12216.	90.	-6705.	-2511.	0.291
12	2.51	-0.15	1464.	4303.	12336.	16566.	794.	6353.	0.068
			4380.	5708.	9090.	398.	-124.	3484.	0.040
45	0.3895	0.8289	429.	4192.	11988.	118.	-7496.	-2970.	0.296
3	2.51	-0.23	1427.	4206.	12046.	16804.	933.	210.	0.061
			4317.	5529.	9792.	512.	869.	-271.	0.051
45	0.3898	0.8268	403.	3225.	9027.	131.	-7600.	-3211.	0.240
4	3.21	-0.27	1103.	3286.	9789.	16624.	1042.	-112.	0.049
			3477.	4467.	8357.	453.	1079.	-816.	0.041
46	0.3757	0.8973	460.	4319.	14114.	91.	-6219.	-1568.	0.444
3	0.20	0.22	492.	5041.	13775.	9883.	123.	5859.	0.018
			4077.	6798.	9512.	-494.	-1018.	5944.	0.036

RECTANGULAR TIP

RUN / PT	V/OR / B1C	MAT / B1S	PL OSC / Q OSC / N3 OSC	N5 OSC / N6 OSC / N7 OSC	E5 OSC / E6 OSC / E7 OSC	PL MEAN / Q MEAN / N3 MEAN	N5 MEAN / N6 MEAN / N7 MEAN	E5 MEAN / E6 MEAN / E7 MEAN	NV4 ACC / TI 4 ACC / LN4 ACC
46	0.3769	0.8963	485.	4291.	14380.	33.	-6447.	-1573.	0.434
4	0.08	0.30	795.	5129.	14206.	13990.	372.	5622.	0.029
			4069.	7079.	10211.	-121.	-800.	5943.	0.036
46	0.3751	0.8983	485.	4189.	14100.	-56.	-6614.	-1800.	0.396
5	0.13	[illegible]42	1008.	5020.	13894.	16646.	559.	5411.	0.037
			4087.	6955.	10806.	84.	1119.	5848.	0.035
46	0.3752	0.8978	532.	4254.	14483.	-32.	-6730.	-1885.	0.392
6	0.36	0.43	1233.	5032.	14238.	19407.	684.	5300.	0.036
			4255.	7371.	11505.	256.	3471.	5835.	0.028
46	0.3753	0.8976	635.	4158.	13341.	-81.	-6915.	-1991.	0.330
7	0.14	0.43	1496.	4919.	13180.	22982.	910.	4830.	0.037
			4137.	7062.	12470.	452.	3472.	5781.	0.029
46	0.3745	0.8979	602.	4137.	13627.	-8.	-7009.	-1912.	0.299
8	0.18	0.39	1608.	4871.	14350.	25053.	991.	3603.	0.036
			4116.	6870.	13768.	536.	4159.	6103.	0.026
46	0.3768	0.8966	389.	3317.	11698.	37.	-6689.	-2316.	0.322
9	0.19	0.13	576.	3922.	11648.	12735.	629.	3078.	0.022
			3076.	9637.	8687.	-239.	12266.	5448.	0.046
46	0.3768	0.8986	507.	3066.	11597.	49.	-6845.	-2550.	0.304
10	0.16	0.31	837.	3733.	11296.	15965.	822.	2728.	0.031
			3119.	5841.	8598.	-67.	10665.	5280.	0.046
46	0.3760	0.8961	461.	3338.	13065.	4.	-6893.	-2369.	0.328
11	0.31	0.39	875.	4046.	12849.	19103.	857.	2968.	0.025
			3382.	6746.	9657.	112.	10557.	5473.	0.052
46	0.3756	0.8970	734.	3330.	12308.	-55.	-7207.	-2575.	0.241
12	0.16	0.41	1159.	3991.	12435.	26688.	1189.	2617.	0.028
			3420.	6709.	10857.	611.	11675.	5340.	0.055
46	0.3753	0.8977	583.	3256.	11603.	-19.	-7348.	-2385.	0.216
13	0.32	0.52	1455.	4026.	11677.	30996.	1376.	2599.	0.031
			3446.	9202.	10945.	749.	12527.	5408.	0.056

RECTANGULAR TIP

RUN PT	V/OR B1C	MAT B1S	PL OSC Q OSC N3 OSC	N5 OSC N6 OSC N7 OSC	E5 OSC E6 OSC E7 OSC	PL MEAN Q MEAN N3 MEAN	N5 MEAN N6 MEAN N7 MEAN	E5 MEAN E6 MEAN E7 MEAN	NV4 ACC TL4 ACC IN4 ACC
46	0.3732	0.8999	431.	5447.	14051.	154.	-5182.	777.	0.334
14	0.05	0.05	922.	5887.	13526.	6286.	-1031.	6955.	0.015
			5067.	8147.	9926.	-1993.	3275.	8262.	0.055
46	0.3774	0.8937	446.	5276.	14370.	143.	-5382.	223.	0.392
15	0.16	0.25	941.	5872.	13863.	4789.	-786.	6247.	0.020
			5072.	8528.	9881.	-1623.	2771.	7955.	0.063
46	0.3768	0.8950	461.	5276.	15569.	134.	-5545.	-182.	0.451
16	0.31	0.23	906.	6052.	15358.	4752.	-600.	5572.	0.024
			5174.	9011.	10467.	-1309.	3958.	7731.	0.074
46	0.3749	0.8991	436.	5180.	15770.	124.	-5701.	-384.	0.491
17	0.15	0.09	931.	6039.	15426.	5545.	-425.	5190.	0.027
			5012.	8385.	10188.	-1035.	4337.	7607.	0.035
46	0.3771	0.8949	613.	5056.	15437.	178.	-5851.	-559.	0.472
18	0.32	0.26	788.	5907.	15007.	6680.	-242.	4528.	0.037
			4765.	7921.	10195.	-845.	3364.	7490.	0.036
46	0.3728	0.9019	455.	5117.	16087.	125.	-5936.	-498.	0.473
19	0.25	0.58	737.	6008.	15554.	7864.	-152.	4343.	0.051
			4742.	8434.	10783.	-678.	3885.	7979.	0.033
46	0.3757	0.8977	497.	5177.	17052.	76.	-6030.	-591.	0.464
20	0.14	0.39	780.	6077.	16288.	9533.	-27.	4110.	0.061
			4769.	8006.	11690.	-517.	-630.	7861.	0.034

SECTION C

Tabulated Detailed Loads Data

RUN 11 POINT 14
SWEPT/TAPERED TIP

V/OR = 0.202 ALFS,U = 10.0 CLR/S = 0.11135 CP/S = -0.000691
MAT = 0.716 THETA = 8.0 CXR/S = -0.02296 RHO = 0.002280

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-243.7		-6357.0		-135.3		-1661.1	
1	406.8	-1077.5	-590.9	1318.8	519.1	-1190.3	616.9	-1398.6
2	-544.0	175.6	985.4	-245.8	-1176.6	288.3	-1748.2	457.5
3	42.8	-245.9	-74.5	-148.5	105.8	300.5	52.6	628.1
4	-85.9	-252.4	50.5	54.1	92.7	14.8	288.1	191.0
5	91.8	-63.4	47.5	-28.8	-27.7	-41.2	-2.6	-121.8
6	57.1	-26.2	20.3	-54.6	-20.2	-7.5	3.3	-82.8
7	121.9	62.9	131.7	78.0	-121.1	-93.7	3.7	-12.5
8	-32.9	93.1	-79.0	145.6	42.3	-123.8	-47.7	40.9
9	-8.2	25.4	-19.7	45.9	4.1	-44.1	-12.0	16.9
10	2.9	1.1	-5.0	-6.3	-27.9	-30.1	-18.0	-24.3

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	193.7		-1686.2		5877.5		5487.1	
1	21.9	219.7	-3111.7	4344.0	-2675.1	3592.1	-2016.6	2566.5
2	46.5	11.3	3906.4	-1081.6	3832.4	-1242.7	3541.2	-1308.4
3	58.4	-50.7	-902.5	-676.4	-915.4	-1034.8	-626.4	-1290.8
4	1.6	-30.1	407.9	-90.1	44.8	-184.4	-288.0	-426.3
5	23.6	36.3	670.1	1580.3	527.8	1514.0	397.4	1330.4
6	16.8	15.8	85.5	494.8	46.9	536.7	-20.3	532.0
7	10.6	6.8	631.0	212.3	608.7	273.1	271.6	27.4
8	3.4	6.0	-107.7	344.9	-128.9	335.9	29.0	7.1
9	-0.0	-0.6	47.6	179.3	62.0	223.4	94.1	89.1
10	-1.6	-0.1	57.9	-68.9	129.6	-49.9	79.8	-113.1

RUN 11 POINT 14
SWEPT/TAPERED TIP

V/OR = 0.202 ALFS,U = 10.0 CLR/S = 0.11135 CP/S = -0.000691
MAT = 0.716 THETA = 8.0 CXR/S = -0.02296 RHO = 0.002280

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	-191.	-5891.	-745.	-2525.	375.	-496.	7410.	6949.
11.25	-629.	-5681.	-869.	-2182.	385.	877.	8485.	6870.
22.50	-1217.	-6089.	-337.	-1846.	299.	-1323.	6136.	5427.
33.75	-1299.	-6479.	5.	-1688.	222.	-3933.	3584.	3740.
45.00	-632.	-6178.	-256.	-1524.	244.	-3955.	3434.	2850.
56.25	-4.	-5798.	-489.	-1421.	332.	-2085.	4980.	3544.
67.50	-111.	-6066.	-299.	-1621.	405.	-456.	6376.	5287.
78.75	-594.	-6382.	-68.	-1839.	437.	652.	7186.	6649.
90.00	-811.	-5980.	-258.	-1777.	436.	1632.	7876.	6877.
101.25	-861.	-5347.	-730.	-1787.	406.	1486.	7870.	6065.
112.50	-1141.	-5230.	-949.	-2180.	362.	80.	6829.	5304.
123.75	-1511.	-5365.	-932.	-2768.	332.	-125.	6778.	6227.
135.00	-1584.	-5144.	-1245.	-3346.	324.	2457.	9379.	8768.
146.25	-1435.	-4642.	-1841.	-3796.	313.	6005.	12920.	11481.
157.50	-1426.	-4389.	-2084.	-3990.	273.	7801.	14720.	12403.
168.75	-1569.	-4577.	-1908.	-3988.	207.	6982.	14095.	12172.
180.00	-1502.	-4879.	-1705.	-3842.	146.	4823.	12194.	10709.
191.25	-1026.	-5054.	-1514.	-3442.	112.	3164.	10711.	9348.
202.50	-354.	-5403.	-1145.	-2886.	104.	1868.	9750.	8622.
213.75	217.	-6221.	-491.	-2304.	118.	-602.	7592.	7181.
225.00	657.	-7190.	416.	-1438.	137.	-3739.	4315.	4851.
236.25	1041.	-7887.	1295.	-192.	115.	-5927.	1890.	2821.
247.50	1259.	-8386.	1950.	1028.	30.	-7868.	-92.	620.
258.75	1208.	-8769.	2474.	1939.	-79.	-10366.	-2848.	-2187.
270.00	1054.	-8793.	2707.	2461.	-162.	-11504.	-4307.	-3622.
281.25	957.	-8467.	2381.	2286.	-185.	-9994.	-2607.	-2326.
292.50	859.	-8174.	1780.	1223.	-124.	-7300.	573.	774.
303.75	775.	-7935.	1152.	-324.	-12.	-4873.	3564.	4381.
315.00	797.	-7434.	342.	-1680.	77.	-3569.	5687.	6747.
326.25	752.	-6814.	-306.	-2426.	120.	-4257.	5459.	6451.
337.50	445.	-6487.	-337.	-2635.	174.	-5431.	3760.	5227.
348.75	79.	-6293.	-324.	-2645.	276.	-3984.	4382.	5677.

RUN 10 POINT 20
SWEPT/TAPERED TIP

V/OR = 0.201 ALFS,U = -2.5 CLR/S = 0.06940 CP/S = 0.002772
MAT = 0.720 THETA = 8.0 CXR/S = 0.00236 RHO = 0.002386

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-102.4		-6837.7		363.2		-861.5	
1	368.5	-749.6	-425.8	1111.8	429.4	-1134.4	671.3	-1445.1
2	-300.1	160.2	720.7	-143.1	-903.3	131.8	-1465.4	112.2
3	-14.2	185.6	126.9	-471.3	-150.6	640.4	-237.7	1030.5
4	-191.3	-117.2	127.4	-61.1	-29.3	106.8	127.1	229.7
5	-15.8	92.1	10.5	-57.6	18.6	-27.6	64.0	-196.3
6	-26.8	47.2	-44.6	3.6	85.9	-60.9	122.5	-84.1
7	22.9	70.5	15.6	90.7	-15.6	-104.0	-5.1	-37.0
8	-46.5	126.2	-82.8	201.6	-16.4	-155.1	-122.2	50.2
9	14.2	26.2	0.5	43.8	-28.3	-42.3	-36.3	24.6
10	24.8	-2.8	64.1	-5.1	71.8	7.2	151.0	12.9

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	128.5		-3207.5		-605.7		3904.5	
1	31.0	183.9	-1732.7	4247.6	-1701.5	3784.5	-1699.1	3147.7
2	36.1	26.8	1979.8	-544.0	2466.8	-552.3	2726.5	-446.1
3	5.4	-20.3	-641.1	-902.2	-438.9	-1343.1	-347.2	-1570.7
4	-18.0	-27.6	-162.1	746.4	-279.1	609.6	-518.8	405.7
5	3.5	9.8	-1397.0	1431.1	-1317.1	1443.8	-1147.4	1570.6
6	-8.9	5.2	-370.1	335.0	-429.4	403.9	-374.6	342.3
7	-4.3	9.2	-57.6	156.4	-72.6	185.1	-104.2	3.7
8	0.5	8.4	-176.4	346.6	-47.4	288.2	112.2	-143.1
9	0.4	-2.3	131.0	121.2	203.2	158.2	226.1	16.7
10	-2.6	0.1	135.6	8.5	-116.2	-23.9	-204.8	-23.5

RUN 10 POINT 20
SWEPT/TAPERED TIP

V/OR =	0.201	ALFS,U =	-2.5	CLR/S =	0.06940	CP/S = 0.002772
MAT =	0.720	THETA =	8.0	CXR/S =	0.00236	RHO = 0.002386

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	-273.	-6325.	-175.	-1592.	171.	-5498.	-2338.	2573.
11.25	76.	-6285.	-289.	-1329.	226.	-1959.	925.	4670.
22.50	54.	-6824.	262.	-991.	255.	-124.	2288.	6302.
33.75	-92.	-7293.	874.	-538.	258.	-638.	1210.	5829.
45.00	-35.	-7126.	656.	-444.	282.	-2496.	-537.	3679.
56.25	41.	-6574.	182.	-569.	324.	-3790.	-1782.	1787.
67.50	-208.	-6289.	66.	-888.	341.	-3132.	-1416.	2452.
78.75	-675.	-6322.	-209.	-1738.	323.	-1024.	1109.	5557.
90.00	-919.	-6055.	-678.	-2275.	289.	1254.	3691.	7653.
101.25	-910.	-5574.	-711.	-1838.	249.	2423.	4094.	7134.
112.50	-990.	-5667.	-486.	-1553.	217.	1447.	3004.	6249.
123.75	-1084.	-6107.	-442.	-1895.	205.	-633.	1817.	5919.
135.00	-871.	-6049.	-476.	-1999.	213.	-1291.	1162.	5419.
146.25	-575.	-5745.	-595.	-2074.	221.	-51.	2004.	6110.
157.50	-623.	-5784.	-787.	-2558.	199.	1449.	3958.	8357.
168.75	-900.	-5883.	-749.	-2713.	146.	2165.	4846.	9448.
180.00	-1024.	-5781.	-682.	-2505.	100.	1897.	4316.	8717.
191.25	-865.	-5757.	-842.	-2564.	75.	553.	3505.	7849.
202.50	-533.	-6006.	-700.	-2465.	59.	-1621.	1898.	6656.
213.75	-138.	-6563.	-77.	-1947.	53.	-4004.	-585.	4906.
225.00	340.	-7273.	496.	-1359.	55.	-5689.	-2171.	3768.
236.25	844.	-7808.	1126.	-228.	20.	-6476.	-3099.	2427.
247.50	1058.	-8281.	2070.	1431.	-52.	-7862.	-5356.	-468.
258.75	923.	-8851.	2713.	2453.	-101.	-10422.	-8193.	-3429.
270.00	855.	-9012.	2804.	2945.	-116.	-11837.	-9398.	-4951.
281.25	921.	-8741.	2894.	3495.	-132.	-10808.	-8659.	-4927.
292.50	776.	-8766.	2869.	2972.	-129.	-8841.	-6986.	-2415.
303.75	609.	-8727.	2104.	1024.	-64.	-6372.	-3504.	2152.
315.00	736.	-7743.	828.	-641.	37.	-3412.	50.	5275.
326.25	658.	-6605.	-101.	-1384.	111.	-2779.	672.	5042.
337.50	18.	-6421.	-258.	-1861.	134.	-5565.	-1858.	3205.
348.75	-472.	-6568.	-67.	-1939.	139.	-7505.	-3851.	2000.

RUN 10 POINT 8
SWEPT/TAPERED TIP

V/OR =	0.201	ALFS,U =	-5.0	CLR/S =	0.11115	CP/S =	0.006271
MAT =	0.716	THETA =	13.0	CXR/S =	0.00859	RHO =	0.002390

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	758.3		-7497.7		1102.2		-274.8	
1	572.0	-793.1	-413.4	1382.4	280.6	-1453.3	507.0	-1833.2
2	-76.5	60.7	590.9	125.3	-800.2	-209.3	-1640.6	-562.0
3	-533.4	309.5	705.8	-528.4	-784.1	736.0	-988.3	1247.4
4	-157.0	-223.0	229.7	11.0	-144.8	85.2	-33.5	246.0
5	-145.8	104.4	-32.5	-66.4	101.5	9.1	261.9	-164.8
6	-154.7	-122.8	-141.2	-135.9	248.0	106.7	206.7	99.8
7	19.7	57.0	59.5	28.0	5.8	-24.5	72.6	-67.9
8	-170.6	33.4	-308.9	28.9	82.9	-94.0	-231.3	-73.8
9	-18.8	3.6	-68.9	-16.4	53.7	-60.4	-82.4	-37.6
10	14.9	33.8	36.2	74.0	89.4	121.2	179.7	169.1

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	44.1		-4306.7		-1613.2		2967.3	
1	102.2	297.9	-1029.1	6015.8	-935.7	5406.8	-1221.7	4371.7
2	104.4	64.8	2506.4	-35.7	2905.7	101.4	3772.7	624.0
3	-10.9	-0.0	-977.8	-1372.8	-413.5	-1942.4	-423.5	-2481.4
4	3.3	-39.3	-889.8	2837.8	-968.5	2404.5	-1142.8	1914.0
5	-22.9	6.0	-1420.6	-187.2	-1328.2	-35.8	-1323.2	391.7
6	-17.6	11.4	-720.7	-448.4	-848.6	-467.2	-516.3	-378.9
7	2.9	6.9	-236.4	387.3	-367.7	331.5	-478.5	387.1
8	-5.3	1.5	-437.8	167.4	-43.3	246.6	485.6	88.8
9	4.2	2.4	-151.3	35.1	-190.9	194.8	54.1	133.7
10	-0.4	-1.2	108.5	213.8	-208.8	-139.0	-336.2	-58.7

RUN 10 POINT 8
SWEPT/TAPERED TIP

V/OR =	0.201	ALFS,U =	-5.0	CLR/S =	0.11115	CP/S = 0.006271
MAT =	0.716	THETA =	13.0	CXR/S =	0.00859	RHO = 0.002390

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	112.	-6751.	235.	-2023.	204.	-7555.	-4013.	1838.
11.25	534.	-6728.	138.	-1724.	295.	-2953.	-4.	4774.
22.50	1158.	-6875.	153.	-1391.	365.	1253.	3772.	7328.
33.75	1434.	-7399.	926.	-746.	394.	2328.	3912.	7693.
45.00	1394.	-7857.	1319.	-376.	392.	633.	2295.	6491.
56.25	1196.	-7639.	1007.	-215.	380.	-1993.	164.	3736.
67.50	777.	-7007.	888.	-86.	359.	-3580.	-2048.	1448.
78.75	109.	-6710.	449.	-1052.	319.	-3238.	-1294.	3021.
90.00	-409.	-6313.	-713.	-2501.	255.	-679.	2703.	6381.
101.25	-519.	-5366.	-1123.	-2346.	182.	3081.	5410.	7398.
112.50	-687.	-5192.	-431.	-1406.	121.	4392.	5061.	7119.
123.75	-1055.	-6318.	66.	-1337.	86.	1493.	3461.	6706.
135.00	-811.	-6977.	263.	-1121.	85.	-2009.	1086.	4461.
146.25	233.	-6594.	552.	-540.	119.	-3016.	-1054.	2355.
157.50	982.	-6596.	569.	-988.	149.	-2589.	-720.	3855.
168.75	813.	-7160.	604.	-1694.	122.	-1583.	1212.	6999.
180.00	325.	-7292.	920.	-1565.	53.	75.	2459.	8623.
191.25	120.	-6970.	698.	-1616.	-6.	965.	3139.	8931.
202.50	201.	-6687.	131.	-1963.	-62.	108.	3181.	8434.
213.75	365.	-6812.	325.	-1810.	-145.	-2440.	1196.	7095.
225.00	530.	-7545.	951.	-1554.	7.	-7089.	-2812.	4588.
236.25	843.	-8232.	1439.	-721.	-238.	-12377.	-7683.	-447.
247.50	1307.	-8425.	2272.	1481.	-245.	-15231.	-11826.	-6424.
258.75	1590.	-8970.	3237.	3333.	-285.	-15439.	-13117.	-8751.
270.00	1695.	-9913.	3719.	3930.	-344.	-14378.	-11650.	-7601.
281.25	1957.	-10130.	4152.	4894.	-389.	-12140.	-9949.	-6697.
292.50	2150.	-9957.	4565.	5571.	-383.	-9878.	-8675.	-5299.
303.75	1969.	-10196.	4118.	3880.	-284.	-8733.	-6468.	-1335.
315.00	1866.	-9766.	2787.	1162.	-119.	-6953.	-3321.	2842.
326.25	1970.	-8090.	1205.	-519.	22.	-4680.	-955.	4399.
337.50	1541.	-6771.	7.	-1565.	92.	-5427.	-1304.	3392.
348.75	574.	-6648.	-155.	-2181.	134.	-8179.	-3780.	1599.

RUN 10 POINT 16
SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = 0.0 CLR/S = 0.11912 CP/S = 0.004469
MAT = 0.718 THETA = 12.0 CXR/S = -0.00141 RHO = 0.002386

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	464.0		-7025.5		673.5		-707.2	
1	457.7	-768.3	-229.4	1186.7	245.4	-1230.5	496.7	-1604.2
2	-290.9	110.2	886.5	-41.5	-1106.2	-75.8	-1984.6	-369.1
3	-337.3	271.5	551.2	-515.2	-608.4	708.7	-879.7	1089.5
4	-202.2	-129.6	172.5	-35.9	-129.8	13.4	-86.0	144.4
5	-50.6	147.1	-33.2	-77.1	37.9	-37.4	75.7	-284.7
6	-101.5	103.9	-140.1	78.2	155.6	-89.2	134.4	-22.9
7	75.5	206.6	78.4	297.8	-46.1	-252.8	38.8	-17.5
8	-52.8	193.6	-131.6	285.4	10.9	-215.0	-140.6	-4.1
9	28.6	68.5	-6.7	115.4	2.8	-27.2	-47.0	93.7
10	36.3	56.8	95.0	63.8	183.9	-10.8	230.0	62.4

	PITCH LINK LOAD		BLADE EDGEWISE BENDING MOMENT					
			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	72.1		-3033.7		-853.4		4048.1	
1	84.8	274.3	-773.7	5088.7	-994.6	4414.9	-1298.1	3619.1
2	103.7	70.9	3450.1	-483.6	3816.6	-251.2	4440.0	196.8
3	8.4	13.6	-898.0	-1082.6	-513.4	-1668.1	-325.7	-1942.5
4	-11.2	-30.6	-1037.4	2433.8	-997.9	2313.7	-964.0	1839.1
5	-18.2	-0.9	-2572.4	-195.6	-2241.0	23.9	-1904.3	499.0
6	-27.6	1.8	-555.7	264.2	-519.7	190.7	-291.8	-93.0
7	-7.3	24.6	-227.8	1020.0	-329.1	941.0	-496.1	377.8
8	-9.7	16.4	-66.0	484.8	154.4	313.5	424.9	-130.5
9	-2.9	-6.6	60.6	219.6	45.5	-16.3	181.3	-248.3
10	5.9	-17.5	105.9	243.0	-574.2	38.2	-572.0	-90.6

RUN 10 POINT 16
SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = 0.0 CLR/S = 0.11912 CP/S = 0.004469
MAT = 0.718 THETA = 12.0 CXR/S = -0.00141 RHO = 0.002386

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	27.	-5783.	-580.	-2869.	168.	-5548.	-3007.	3242.
11.25	835.	-5281.	-1184.	-2730.	312.	110.	2194.	6086.
22.50	701.	-6368.	-373.	-2216.	430.	3050.	5249.	9337.
33.75	487.	-7512.	1111.	-1046.	424.	3138.	3997.	9176.
45.00	795.	-7463.	1180.	-216.	367.	1627.	2187.	6462.
56.25	953.	-6898.	602.	-13.	392.	-1499.	-162.	2987.
67.50	575.	-6700.	668.	-188.	377.	-4335.	-3139.	811.
78.75	-31.	-6771.	402.	-1188.	254.	-4591.	-2795.	2318.
90.00	-466.	-6384.	-430.	-2181.	198.	-1962.	730.	5367.
101.25	-586.	-5557.	-697.	-1912.	216.	2269.	3683.	6829.
112.50	-707.	-5423.	-502.	-1409.	164.	4744.	5364.	7884.
123.75	-926.	-6127.	-285.	-1537.	110.	2837.	4718.	8018.
135.00	-674.	-6396.	82.	-1476.	144.	-941.	907.	5191.
146.25	37.	-6079.	100.	-1472.	179.	-2483.	-1367.	3354.
157.50	304.	-6149.	-221.	-2064.	168.	-1325.	753.	5992.
168.75	-49.	-6495.	-23.	-2316.	139.	1113.	3505.	9403.
180.00	-321.	-6504.	156.	-2238.	68.	3274.	5058.	10921.
191.25	-250.	-6317.	-372.	-2590.	-3.	3203.	5912.	11216.
202.50	-24.	-6212.	-538.	-2592.	-23.	744.	4167.	9364.
213.75	269.	-6477.	11.	-2089.	-56.	-2685.	533.	6530.
225.00	558.	-7308.	453.	-1875.	-117.	-6761.	-2357.	4810.
236.25	880.	-8073.	1210.	-863.	-154.	-10718.	-6238.	1234.
247.50	1260.	-8372.	2457.	1446.	-202.	-12637.	-10588.	-4469.
258.75	1494.	-8784.	2995.	2937.	-256.	-12656.	-11085.	-6532.
270.00	1596.	-9269.	3072.	3554.	-259.	-12313.	-9569.	-5502.
281.25	1694.	-9419.	3758.	4522.	-289.	-11828.	-10227.	-5987.
292.50	1578.	-9716.	4117.	4529.	-367.	-10673.	-9557.	-4735.
303.75	1457.	-9717.	3122.	2512.	-310.	-7546.	-4549.	919.
315.00	1775.	-8152.	1541.	520.	-100.	-2174.	498.	5284.
326.25	1693.	-6296.	252.	-663.	56.	555.	1886.	5620.
337.50	447.	-6211.	-308.	-2037.	107.	-3309.	-312.	4802.
348.75	-537.	-6605.	-226.	-2947.	141.	-7757.	-3659.	3597.

RUN 11 POINT 8
SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = -7.5 CLR/S = 0.12642 CP/S = 0.010102
MAT = 0.719 THETA = 16.0 CXR/S = 0.01667 RHO = 0.002293

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	1201.0		-7919.0		1548.9		295.9	
1	543.3	-647.9	-209.6	1370.4	-128.3	-1495.1	-162.6	-1907.4
2	147.8	-3.7	287.6	44.3	-394.3	-108.1	-1204.1	-655.3
3	-597.9	109.4	671.0	-194.5	-743.3	350.7	-821.8	846.7
4	10.4	-464.1	109.2	164.0	-66.1	37.6	-38.2	281.0
5	-108.1	-36.5	-76.3	-14.5	149.8	80.4	317.9	102.5
6	41.0	-340.8	-10.5	-123.5	55.6	224.0	2.5	294.5
7	104.1	30.7	126.4	86.5	-111.2	-57.0	11.8	-35.0
8	-69.8	-120.3	-106.2	-218.5	45.5	68.8	-71.6	-193.1
9	8.0	15.1	16.4	-26.6	20.0	-53.2	-0.7	-81.0
10	35.6	-5.0	-3.5	75.8	-75.3	116.3	-77.8	177.9

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	11.6	-3972.1		2378.0		2990.7
1	89.5	399.0	19.8	5900.8	661.3	5316.1	389.2	3955.3
2	103.2	151.9	1389.7	-109.0	1674.3	-185.0	2793.8	823.4
3	-60.8	7.0	-755.6	-1525.0	-154.3	-1864.6	-374.5	-2559.7
4	-22.3	-47.0	556.8	1044.7	346.8	563.8	28.1	131.6
5	-50.1	-12.0	1927.2	1592.8	1639.8	1311.6	1149.4	1054.8
6	-61.0	95.4	-501.5	-186.5	-587.6	-535.0	-467.7	-467.2
7	0.5	44.5	0.7	281.9	-10.9	295.0	-270.9	253.7
8	11.2	4.4	-472.4	-213.3	-329.7	-18.3	-67.0	401.5
9	-3.6	-10.7	41.8	148.1	-91.9	193.2	-47.1	118.1
10	-28.5	15.8	50.2	125.3	39.6	-242.2	-74.7	-274.9

RUN 11 POINT 8
SWEPT/TAPERED TIP

V/OR = 0.200 ALFS,U = -7.5 CLR/S = 0.12642 CP/S = 0.010102
MAT = 0.719 THETA = 16.0 CXR/S = 0.01667 RHO = 0.002293

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1321.	-7115.	301.	-1749.	-50.	-1715.	5615.	6049.
11.25	617.	-7171.	732.	-1215.	306.	425.	6520.	6821.
22.50	829.	-7210.	724.	-963.	520.	-126.	6051.	6239.
33.75	1728.	-7260.	636.	-1013.	526.	-2417.	3844.	4116.
45.00	2321.	-7597.	846.	-1115.	5 .	-3710.	2595.	3559.
56.25	2236.	-7937.	943.	-1118.	553.	-2057.	4523.	5475.
67.50	1666.	-7674.	991.	-593.	506.	1876.	7437.	7048.
78.75	820.	-7128.	944.	-288.	447.	4648.	9063.	7696.
90.00	114.	-6752.	181.	-1232.	310.	4059.	9609.	8135.
101.25	-184.	-6109.	-694.	-2002.	123.	1763.	8404.	6508.
112.50	-449.	-5476.	-554.	-1242.	69.	-380.	5341.	3061.
123.75	-872.	-5990.	163.	-338.	92.	-2186.	3292.	1525.
135.00	-823.	-7148.	748.	-70.	60.	-2546.	3690.	2522.
146.25	159.	-7464.	1253.	363.	61.	-760.	4904.	3856.
157.50	1464.	-7240.	1402.	431.	93.	474.	5561.	4943.
168.75	1983.	-7574.	1368.	-271.	6 .	-1337.	4443.	5243.
180.00	1422.	-8170.	1927.	-438.	.	-4183.	1527.	4356.
191.25	730.	-8246.	2381.	-28.	116.	-4582.	485.	4308.
202.50	757.	-7880.	1827.	-98.	-13.	-2775.	2888.	5749.
213.75	1081.	-7713.	1457.	-200.	-212.	-2482.	4041.	6162.
225.00	1128.	-8185.	2044.	96.	-306.	-5887.	1024.	4264.
236.25	1254.	-8839.	2416.	478.	-367.	-10816.	-3372.	309.
247.50	1655.	-8525.	2469.	1600.	-357.	-14163.	-6897.	-5020.
258.75	1823.	-8931.	3045.	3349.	-241.	-15198.	-8730.	-8265.
270.00	1732.	-9627.	3704.	4163.	-336.	-13711.	-7172.	-6733.
281.25	1836.	-10251.	3971.	4343.	-676.	-9818.	-3394.	-3616.
292.50	2010.	-10028.	4167.	4897.	-762.	-6539.	-1194.	-2292.
303.75	1934.	-9685.	3948.	4410.	-448.	-6570.	-978.	-1154.
315.00	1834.	-9607.	3004.	2138.	-115.	-7862.	-503.	1237.
326.25	1997.	-9083.	1940.	1.	13.	-7638.	808.	3477.
337.50	2235.	-8068.	1001.	-1092.	-53.	-6365.	2475.	4733.
348.75	2074.	-7324.	271.	-1738.	-172.	-4529.	4196.	5391.

RUN 14 POINT 12
SWEPT/TAPERED TIP

V/OR = 0.301 ALFS,U = -5.0 CLR/S = 0.07069 CP/S = 0.004093
MAT = 0.780 THETA = 10.0 CXR/S = 0.00546 RHO = 0.002297

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R COS	.3R SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	99.5		-6897.3		483.0		-655.5	
1	782.0	-964.4	-1143.7	1404.2	1275.8	-1505.3	1566.2	-2021.3
2	-338.9	558.2	727.3	-377.6	-935.0	332.6	-1356.6	436.4
3	195.7	261.1	-103.1	-623.6	9.8	744.0	-226.3	881.5
4	-57.4	177.5	50.9	16.1	-118.2	-4.7	-108.5	17.9
5	229.3	80.0	5.9	-17.1	-162.1	-67.4	-413.0	-137.9
6	-53.6	8.6	-32.2	-20.0	-11.1	21.5	23.7	-35.0
7	-126.7	-100.3	-97.5	-194.2	69.1	146.9	-17.7	-25.6
8	57.7	-36.9	105.5	-76.6	-81.9	66.9	7.8	-41.7
9	-21.5	-27.3	-22.0	-64.4	-9.3	36.0	-23.6	-33.7
10	-12.3	11.7	-20.2	-18.6	-46.5	-24.8	-54.6	-64.4

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD COS	PITCH LINK LOAD SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	146.0		-3294.7		5251.3		3685.0	
1	79.8	219.8	-3185.8	5077.3	-3860.9	4675.8	-3124.7	3788.5
2	34.1	27.6	2228.7	-776.8	2658.2	-718.5	2317.1	-682.1
3	-18.6	25.1	-1237.8	-478.7	-820.8	-896.7	-270.0	-581.8
4	-15.4	22.8	202.4	1459.2	422.1	1261.1	319.8	949.0
5	-11.3	30.2	163.2	-414.3	442.2	-189.8	657.4	-142.1
6	-7.1	-4.6	-128.4	-496.4	-0.8	-447.1	-90.1	-260.6
7	-0.8	-13.4	-365.7	-139.0	-278.1	-121.2	-66.1	246.3
8	3.8	-7.6	320.2	-118.6	319.5	-163.9	137.5	-11.9
9	1.2	-0.8	-97.9	-126.0	-84.2	-110.3	-102.0	2.5
10	1.7	-6.1	-86.2	48.0	6.9	169.2	-33.4	217.8

RUN 14 POINT 12
SWEPT/TAPERED TIP

V/OR = 0.301 ALFS,U = -5.0 CLR/S = 0.07069 CP/S = 0.004093
MAT = 0.780 THETA = 10.0 CXR/S = 0.00546 RHO = 0.002297

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	754.	-7426.	473.	-1259.	213.	-5482.	4055.	3431.
11.25	966.	-7999.	1165.	-868.	297.	-4902.	3967.	4014.
22.50	1184.	-7796.	1488.	219.	415.	-3300.	4190.	3189.
33.75	1007.	-7404.	1316.	837.	478.	-1869.	4973.	2557.
45.00	421.	-7387.	1289.	683.	430.	-1676.	5142.	2892.
56.25	-124.	-7322.	1130.	9[illegible]	350.	-2386.	4671.	3224.
67.50	-253.	-6707.	217.	-1117.	319.	-2463.	5405.	3780.
78.75	-225.	-5794.	-826.	-2104.	332.	-1156.	7369.	4956.
90.00	-568.	-5275.	-1152.	-2418.	343.	368.	8722.	5933.
101.25	-1187.	-5390.	-1011.	-2476.	311.	1165.	9367.	6772.
112.50	-1456.	-5556.	-941.	-2625.	250.	1819.	10159.	7868.
123.75	-1214.	-5286.	-1093.	-2798.	221.	2501.	10727.	8444.
135.00	-996.	-4986.	-1388.	-3192.	222.	2430.	10784.	8504.
146.25	-1226.	-5123.	-1509.	-3651.	207.	1759.	10729.	8839.
157.50	-1650.	-5316.	-1416.	-3589.	187.	1752.	10987.	9106.
168.75	-1730.	-5070.	-1580.	-3199.	166.	2925.	12057.	9130.
180.00	-1364.	-4706.	-1893.	-3029.	113.	3966.	13259.	9241.
191.25	-884.	-4880.	-1691.	-2952.	48.	3088.	12431.	8754.
202.50	-345.	-5011.	-1073.	-2727.	13.	576.	10059.	6614.
213.75	432.	-6376.	-489.	-2187.	-15.	-2014.	7978.	6378.
225.00	1131.	-7050.	322.	-948.	-47.	-5143.	4951.	3706.
236.25	1277.	-7968.	1542.	790.	-67.	-9667.	-40.	-778.
247.50	1151.	-8370.	2698.	2288.	-96.	-13009.	-3702.	-3676.
258.75	1287.	-9494.	3447.	3294.	-134.	-12483.	-3695.	-3291.
270.00	1577.	-9556.	3704.	3680.	-132.	-9941.	-2065.	-2036.
281.25	1676.	-9437.	3389.	3250.	-81.	-8304.	-654.	-1268.
292.50	1496.	-8984.	2766.	2550.	-17.	-7717.	364.	-686.
303.75	986.	-8316.	2250.	2049.	38.	-7767.	356.	-811.
315.00	303.	-7547.	1854.	1298.	56.	-8319.	-282.	-1092.
326.25	-18.	-7673.	1384.	318.	42.	-3060.	229.	-181.
337.50	207.	-7083.	779.	-308.	67.	-6576.	1993.	1184.
348.75	547.	-6827.	303.	-805.	142.	-5546.	3516.	2213.

RUN 14 POINT 20
SWEPT/TAPERED TIP

V/OR = 0.301 ALFS,U = -10.0 CLR/S = 0.06831 CP/S = 0.006030
MAT = 0.780 THETA = 12.0 CXR/S = 0.01157 RHO = 0.002284

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	351.7		-7248.5		886.5		-113.5	
1	849.5	-826.7	-1053.9	1270.1	1152.1	-1353.2	1426.8	-1816.7
2	-162.2	402.3	590.7	-220.0	-809.1	130.4	-1303.5	133.5
3	60.0	497.0	44.6	-684.2	-117.6	820.6	-324.1	951.4
4	4.8	189.9	75.0	2.1	-164.0	-23.5	-223.0	-8.7
5	83.4	96.1	-0.3	-40.8	-55.2	-74.7	-157.2	-221.7
6	-23.6	-6.1	21.1	-3.9	-21.0	13.3	42.8	1.7
7	-51.1	-22.5	-18.3	-73.9	20.4	34.9	6.8	-37.4
8	-10.8	2.0	7.5	1.4	-3.5	3.4	9.1	-6.8
9	-3.5	2.6	4.5	-18.1	-26.8	-7.1	-13.4	-30.6
10	9.1	-4.2	12.3	-12.9	-40.7	-30.0	-19.9	-49.9

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	106.8		-3752.5		4452.5		2985.3	
1	121.8	224.8	-2088.6	5026.6	-2940.0	4587.4	-2477.4	3677.4
2	53.8	18.5	1743.1	-769.5	2220.9	-532.2	2184.6	-386.9
3	-24.0	42.0	-1334.8	-655.7	-918.5	-1108.7	-484.2	-729.8
4	-2.6	15.1	1078.9	2006.1	1188.0	1858.8	1004.6	1411.3
5	-27.4	13.7	676.5	-1147.1	751.0	-788.5	730.2	-479.1
6	5.4	1.2	-69.1	-360.3	-72.5	-368.1	-190.5	-282.2
7	1.5	-13.3	-119.0	54.9	-99.5	118.9	-37.3	226.6
8	-0.2	-0.7	21.1	37.8	28.8	-8.9	4.8	12.8
9	-0.7	-5.1	12.3	-10.5	57.1	40.8	27.5	64.7
10	-1.4	-2.5	87.5	24.2	178.0	148.3	154.9	133.3

RUN 14 POINT 20
SWEPT/TAPERED TIP

V/OR =	0.301	ALFS,U =	-10.0	CLR/S =	0.06321	CP/S =	0.006030
MAT =	0.780	THETA =	12.0	CXR/S =	0.01157	RHO =	0.002284

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1107.	-7565.	821.	-669.	233.	-3745.	4846.	3903.
11.25	1569.	-8001.	1220.	-488.	318.	-3690.	4667.	4067.
22.50	1779.	-8158.	1695.	298.	420.	-3682.	3753.	3002.
33.75	1527.	-8049.	1806.	960.	468.	-3083.	3869.	2461.
45.00	918.	-7849.	1713.	1095.	432.	-2427.	4249.	2390.
56.25	318.	-7453.	1385.	693.	360.	-1917.	4544.	2568.
67.50	-86.	-6842.	969.	-306.	294.	-1321.	5798.	3619.
78.75	-393.	-6245.	-300.	-1446.	258.	-747.	7291.	4860.
90.00	-680.	-5821.	-701.	-2030.	251.	56.	8172.	5612.
101.25	-906.	-5624.	-792.	-2101.	241.	1325.	9286.	6540.
112.50	-1008.	-5660.	-726.	-1991.	207.	2124.	10131.	7221.
123.75	-949.	-5763.	-477.	-1782.	172.	1666.	9439.	6765.
135.00	-812.	-5818.	-326.	-1758.	156.	517.	8262.	6198.
146.25	-767.	-5912.	-426.	-2110.	146.	-546.	7868.	6383.
157.50	-819.	-5976.	-597.	-2467.	133.	-860.	8151.	6803.
168.75	-833.	-5805.	-844.	-2568.	117.	224.	9390.	7496.
180.00	-769.	-5518.	-1125.	-2547.	91.	1963.	11145.	8385.
191.25	-622.	-5485.	-1116.	-2427.	28.	2514.	11628.	8547.
202.50	-317.	-5660.	-773.	-2175.	-75.	954.	10320.	7786.
213.75	121.	-6512.	-242.	-1700.	-164.	-2727.	7350.	5769.
225.00	563.	-7241.	555.	-694.	-184.	-7964.	2306.	1638.
236.25	929.	-7980.	1570.	791.	-158.	-12663.	-2944.	-2900.
247.50	1207.	-8761.	2561.	2216.	-150.	-14309.	-5142.	-4755.
258.75	1444.	-9449.	3417.	3303.	-160.	-12456.	-4042.	-3834.
270.00	1725.	-9759.	3880.	3936.	-158.	-8884.	-1487.	-1920.
281.25	1925.	-9660.	3717.	3880.	-128.	-6283.	812.	-328.
292.50	1755.	-9337.	3270.	3342.	-64.	-6466.	925.	-443.
303.75	1222.	-8882.	2844.	2702.	4.	-8394.	-914.	-1954.
315.00	676.	-8356.	2246.	1832.	33.	-9368.	-1644.	-2284.
326.25	384.	-7862.	1561.	801.	42.	-8458.	-311.	-892.
337.50	389.	-7454.	1121.	101.	90.	-6628.	1454.	610.
348.75	657.	-7294.	863.	-322.	166.	-4805.	3309.	2218.

RUN 14 POINT 9
SWEPT/TAPERED TIP

V/OR =	0.300	ALFS,U =	0.0	CLR/S =	0.10800	CP/S = 0.004180
MAT =	0.782	THETA =	12.0	CXR/S =	0.00017	RHO = 0.002306

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	304.2		-6836.0		462.7		-931.8	
1	1091.4	-1150.9	-1485.7	1637.2	1573.0	-1763.0	1815.7	-2305.2
2	-421.0	640.7	1035.0	-258.0	-1429.5	211.6	-2175.6	340.2
3	221.1	412.3	-130.1	-843.5	46.9	993.5	-199.2	1169.6
4	108.6	-44.4	43.1	57.5	-207.8	121.1	-316.0	326.6
5	196.8	-26.7	-113.8	-21.8	-92.2	-11.5	-479.2	19.1
6	43.6	-14.0	-7.1	-22.5	-31.6	100.8	17.2	68.9
7	-54.1	-202.4	-60.5	-287.4	-16.4	280.6	-14.7	20.5
8	179.6	-112.6	289.0	-178.3	-199.1	195.3	85.9	-61.4
9	25.9	-100.4	82.3	-181.3	-39.1	177.3	71.5	-67.7
10	2.5	3.6	13.8	-76.8	-138.8	-44.2	-83.9	-173.0

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	98.8		-2981.8		5418.1		4400.2	
1	102.6	313.8	-5328.3	6422.1	-5769.9	5698.5	-4333.2	4361.2
2	103.7	65.3	4258.8	-916.9	4817.7	-760.5	4343.4	-842.5
3	-6.4	26.2	-2538.7	-641.6	-1877.6	-1216.0	-939.8	-781.9
4	-33.6	-2.4	594.2	3276.1	1033.3	2395.7	1032.3	1403.1
5	-25.2	35.2	-1502.7	-126.8	-1007.2	-50.4	-330.8	-139.6
6	-27.1	-4.0	-269.8	-292.1	-25.2	-478.9	-151.6	-271.2
7	-21.2	-5.1	-317.0	-148.3	-26.2	-336.4	29.4	168.9
8	4.4	1.6	545.0	-380.1	444.0	-561.7	-143.2	-157.1
9	9.0	4.6	-41.9	-496.0	-142.7	-629.4	-412.9	-193.6
10	12.6	-18.8	46.7	-153.5	292.7	47.9	132.8	219.1

RUN 14 POINT 9
SWEPT/TAPERED TIP

V/OR =	0.300	ALFS,U =	0.0	CLR/S =	0.10800
MAT =	0.782	THETA =	12.0	CXR/S =	0.00017

CP/S = 0.004180
RHO = 0.002306

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1698.	-7120.	-72.	-2210.	217.	-7536.	3157.	3627.
11.25	1133.	-8423.	1633.	-1421.	345.	-5641.	2611.	4646.
22.50	1111.	-8062.	1975.	211.	519.	-935.	5292.	5163.
33.75	1433.	-6965.	1016.	988.	594.	1682.	7801.	4294.
45.00	1059.	-7113.	1034.	493.	496.	-1042.	5434.	2809.
56.25	284.	-7601.	1362.	-415.	389.	-4709.	2307.	2252.
67.50	41.	-6905.	269.	-1530.	354.	-5115.	3132.	2881.
78.75	39.	-5638.	-1021.	-2382.	330.	-2795.	5724.	3843.
90.00	-521.	-5031.	-1216.	-2464.	313.	711.	8381.	5606.
101.25	-1385.	-5189.	-1090.	-2413.	270.	3820.	11436.	8319.
112.50	-1741.	-5378.	-983.	-2529.	183.	4819.	12422.	9470.
123.75	-1468.	-5085.	-863.	-2617.	166.	4022.	10821.	8432.
135.00	-1171.	-4764.	-1309.	-3311.	222.	2842.	10220.	8387.
146.25	-1353.	-4564.	-1865.	-4438.	218.	2258.	11381.	10194.
157.50	-1769.	-5090.	-1887.	-4730.	183.	3981.	13337.	12006.
168.75	-1746.	-4453.	-2266.	-4493.	175.	8462.	17239.	13975.
180.00	-1264.	-3704.	-3016.	-4598.	100.	11922.	20804.	15601.
191.25	-934.	-3856.	-2732.	-4425.	-14.	10492.	19231.	14351.
202.50	-730.	-4637.	-1685.	-3753.	-54.	5279.	14062.	11015.
213.75	-22.	-5862.	-961.	-2964.	-77.	-601.	9284.	7677.
225.00	1008.	-6691.	42.	-1357.	-121.	-6577.	3756.	2936.
236.25	1598.	-7839.	1717.	974.	-140.	-12686.	-2793.	-2577.
247.50	1839.	-9273.	3098.	2647.	-214.	-16322.	-6230.	-4654.
258.75	2229.	-10067.	3917.	3743.	-345.	-15353.	-5728.	-3802.
270.00	2455.	-10161.	4527.	4624.	-352.	-12468.	-4761.	-3676.
281.25	2134.	-10306.	4576.	4316.	-277.	-11172.	-4154.	-3455.
292.50	1681.	-9993.	3825.	3306.	-279.	-10167.	-2297.	-1861.
303.75	1292.	-8678.	2808.	2928.	-230.	-7924.	-134.	-1126.
315.00	604.	-7792.	2119.	2055.	-50.	-7348.	-95.	-1233.
326.25	55.	-7937.	1664.	-124.	60.	-9258.	-1168.	214.
337.50	565.	-7461.	684.	-1765.	64.	-9756.	76.	2329.
348.75	1579.	-6512.	-490.	-2168.	117.	-8306.	2831.	3165.

RUN 15 POINT 8
SWEPT/TAPERED TIP

V/OR =	0.300	ALFS,U =	-7.5	CLR/S =	0.10231	CP/S =	0.008558
MAT =	0.781	THETA =	15.0	CXR/S =	0.01407	RHO =	0.002298

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	899.6		-7451.8		1192.4		-108.4	
1	1088.0	-827.4	-1231.8	1363.7	1472.0	-1474.8	1850.0	-2035.8
2	-322.9	495.8	803.0	-41.9	-1158.6	-191.9	-1905.6	-339.2
3	-207.6	549.1	462.7	-824.1	-580.8	1045.7	-881.0	1078.0
4	-17.9	70.7	85.2	70.7	-295.4	-27.9	-459.8	184.1
5	-1.2	55.3	11.4	-83.2	74.3	-48.9	15.2	-268.8
6	-23.7	-17.2	30.0	-17.6	-69.8	52.1	83.5	81.1
7	-19.1	-88.2	35.1	-141.9	-16.8	87.3	-33.2	-53.8
8	21.7	-30.4	53.8	-52.7	-17.1	57.9	78.0	-35.3
9	-3.1	7.7	13.4	-12.6	-15.0	-26.3	4.4	-15.9
10	16.6	10.6	15.1	-12.2	-41.8	-55.7	-15.2	-83.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	55.7		-4112.1		3985.7		2885.3	
1	141.0	321.5	-3851.2	6013.4	-4845.6	5143.5	-3810.3	3895.6
2	83.1	80.7	2674.7	-262.6	3440.2	351.5	3299.5	356.8
3	-33.3	52.3	-1614.1	-1278.6	-930.2	-1863.8	-488.4	-1026.0
4	26.3	-11.2	-390.3	2990.0	173.5	2639.4	364.0	1603.6
5	-34.4	-5.6	1194.8	-1801.7	860.8	-1429.2	749.3	-734.0
6	8.9	-7.1	134.5	-253.7	280.9	-303.3	-83.4	-305.8
7	8.6	-18.9	-126.6	1.3	-119.2	101.5	-42.4	347.6
8	-1.4	-4.7	128.3	-1.9	140.6	-75.1	-23.4	61.2
9	3.9	-4.2	-39.7	65.8	-82.1	121.3	-120.1	42.2
10	-0.6	-3.8	48.4	50.5	86.8	231.5	28.6	241.1

RUN 15 POINT 8
SWEPT/TAPERED TIP

V/OR =	0.300	ALFS,U =	-7.5	CLR/S =	0.10231	CP/S =	0.008558
MAT =	0.781	THETA =	15.0	CXR/S =	0.01407	RHO =	0.002298

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1432.	-7174.	543.	-1372.	255.	-5948.	2991.	2759.
11.25	1810.	-7916.	1178.	-1201.	321.	-5499.	3247.	3670.
22.50	2244.	-8308.	1920.	-175.	436.	-4940.	2562.	2888.
33.75	2488.	-8219.	2142.	897.	537.	-3277.	3208.	2261.
45.00	2166.	-8160.	2198.	1365.	545.	-1432.	4593.	2740.
56.25	1453.	-8085.	2180.	1165.	477.	-901.	4834.	3092.
67.50	879.	-7555.	1460.	223.	385.	-1529.	4736.	3101.
78.75	508.	-6682.	268.	-1066.	311.	-2118.	5269.	3284.
90.00	46.	-5927.	-533.	-1998.	268.	-1677.	6190.	3863.
101.25	-504.	-5582.	-849.	-2413.	224.	227.	8068.	5371.
112.50	-873.	-5543.	-838.	-2256.	154.	2874.	10520.	7082.
123.75	-897.	-5589.	-424.	-1606.	91.	4450.	11298.	7382.
135.00	-682.	-5743.	45.	-1427.	68.	3580.	9859.	6920.
146.25	-504.	-6094.	118.	-2241.	80.	852.	7963.	7109.
157.50	-453.	-6363.	-182.	-3082.	106.	-1156.	7495.	7637.
168.75	-378.	-6198.	-748.	-3292.	119.	-208.	9638.	8550.
180.00	-282.	-5755.	-1324.	-3283.	89.	2915.	13224.	10183.
191.25	-259.	-5465.	-1450.	-3186.	5.	5379.	15194.	11170.
202.50	-134.	-5557.	-1157.	-2868.	-129.	5161.	14493.	10612.
213.75	249.	-6067.	-681.	-2398.	-266.	1395.	11380.	8581.
225.00	758.	-6879.	144.	-1514.	-320.	-5672.	5086.	4063.
236.25	1301.	-7787.	1261.	-47.	-284.	-13221.	-2561.	-2005.
247.50	1847.	-8727.	2377.	1580.	-244.	-17258.	-6929.	-5503.
258.75	2223.	-9677.	3631.	3191.	-256.	-16468.	-7003.	-5246.
270.00	2417.	-10395.	4833.	4692.	-290.	-12786.	-5206.	-3901.
281.25	2579.	-10614.	5208.	5445.	-303.	-9210.	-2910.	-2860.
292.50	2557.	-10332.	4801.	5289.	-278.	-8097.	-1637.	-2532.
303.75	2130.	-9762.	4258.	4636.	-227.	-9449.	-2668.	-3422.
315.00	1513.	-9150.	3496.	3294.	-180.	-10851.	-3726.	-3732.
326.25	1078.	-8493.	2357.	1328.	-110.	-10539.	-2550.	-1975.
337.50	956.	-7691.	1295.	-204.	27.	-8980.	-479.	-14.
348.75	1116.	-6998.	630.	-946.	174.	-7209.	1365.	1203.

RUN 19 POINT 25
SWEPT/TAPERED TIP

V/OR =	0.375	ALFS,U =	-5.0	CLR/S =	0.07402	CP/S =	0.005656	
MAT =	0.824	THETA =	12.0	CXR/S =	0.00622	RHO =	0.002188	

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	349.9		-6633.5		807.0		96.7	
1	593.0	-1111.7	-1236.5	1337.1	1455.2	-1669.4	1758.0	-2316.0
2	-438.6	845.8	784.8	-803.4	-1049.3	949.8	-1632.6	1173.7
3	150.7	521.0	-314.5	-752.1	300.5	1020.7	166.7	1320.2
4	71.5	283.6	123.7	-59.1	-136.8	72.5	-126.7	-9.7
5	109.0	253.0	-96.2	-9.7	-129.3	-127.1	-431.9	-267.7
6	44.6	94.9	-24.4	30.9	2.6	-62.7	-117.6	-86.9
7	-159.3	103.5	-191.8	111.5	153.1	-105.3	-29.6	-1.7
8	40.6	-58.4	71.8	-104.6	-39.8	61.5	34.8	-28.8
9	-8.2	17.1	5.3	6.5	47.5	7.7	39.0	7.2
10	-2.1	5.5	-16.4	-16.3	10.9	7.7	2.6	-5.4

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	53.6		-3429.9		5229.6		-6435.7	
1	144.4	212.8	-3695.8	5558.9	-4425.6	5342.6	-3716.6	4353.4
2	28.4	0.5	2570.1	-2453.9	2894.3	-2629.2	2674.8	-2182.6
3	-37.8	63.0	-1856.7	114.0	-1527.1	-541.6	-922.7	-409.5
4	-20.6	-24.1	2620.6	2059.1	2424.1	1836.9	1936.0	1547.0
5	-20.1	19.3	-169.2	-708.8	318.1	-342.7	684.9	-190.7
6	-14.1	-7.7	-20.5	-1046.6	-50.5	-957.6	77.8	-819.8
7	-9.7	-9.9	-315.6	663.4	-258.8	646.0	458.5	364.8
8	0.8	-16.7	90.6	-365.8	-3.8	-298.5	-158.4	-128.6
9	6.7	-1.4	43.1	47.2	-44.1	19.3	2.5	42.7
10	2.1	-1.7	-50.5	11.8	-6.2	49.2	35.4	80.2

RUN 19 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07402 CP/S = 0.005656
MAT = 0.824 THETA = 12.0 CXR/S = 0.00622 RHO = 0.002188

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1151.	-7528.	1422.	-241.	128.	-4214.	4550.	-5663.
11.25	2162.	-7880.	1829.	455.	191.	-4073.	4389.	-6271.
22.50	2348.	-7921.	2257.	1679.	339.	-4072.	3538.	-8062.
33.75	1656.	-7956.	2747.	2656.	453.	-4251.	2423.	-9359.
45.00	775.	-7906.	2685.	2442.	414.	-4652.	1885.	-9463.
56.25	323.	-7360.	1664.	1067.	309.	-4761.	2653.	-8688.
67.50	245.	-6341.	242.	-518.	269.	-3749.	4719.	-7265.
78.75	-7.	-5460.	-749.	-1600.	257.	-1601.	7271.	-5409.
90.00	-668.	-5208.	-1038.	-2143.	195.	902.	9727.	-3196.
101.25	-1254.	-5259.	-960.	-2315.	119.	3326.	12042.	-850.
112.50	-1322.	-4990.	-1023.	-2314.	94.	4838.	13281.	186.
123.75	-1243.	-4617.	-1306.	-2472.	103.	3752.	12166.	-983.
135.00	-1538.	-4773.	-1455.	-2943.	111.	886.	10107.	-2206.
146.25	-1894.	-5060.	-1468.	-3409.	121.	539.	10540.	-1000.
157.50	-1718.	-4626.	-1779.	-3536.	132.	4394.	14037.	1599.
168.75	-1216.	-3867.	-2274.	-3420.	90.	8202.	17030.	2838.
180.00	-1019.	-3860.	-2232.	-3245.	-27.	7775.	16425.	1923.
191.25	-1019.	-4649.	-1503.	-2893.	-157.	4081.	13122.	6.
202.50	-520.	-5510.	-677.	-2176.	-233.	-83.	9634.	-2136.
213.75	524.	-6241.	49.	-1028.	-258.	-4502.	5938.	-5303.
225.00	1375.	-7166.	1163.	585.	-251.	-10059.	474.	-10162.
236.25	1666.	-8318.	2749.	2528.	-216.	-15102.	-5277.	-14802.
247.50	1810.	-9188.	4053.	4352.	-180.	-16112.	-7241.	-16366.
258.75	2131.	-9371.	4514.	5521.	-169.	-12294.	-4389.	-14667.
270.00	2384.	-9157.	4370.	5647.	-160.	-7338.	-102.	-11696.
281.25	2281.	-8982.	3926.	4639.	-132.	-5281.	2223.	-9291.
292.50	1865.	-8637.	3121.	3020.	-86.	-6529.	1829.	-8910.
303.75	1296.	-7819.	2084.	1677.	-27.	-8844.	-74.	-10683.
315.00	663.	-6897.	1223.	949.	26.	-10015.	-1259.	-12289.
326.25	67.	-6396.	711.	471.	59.	-9094.	-243.	-11619.
337.50	-233.	-6429.	581.	-12.	87.	-6850.	2072.	-9266.
348.75	125.	-6901.	898.	-330.	112.	-4974.	3861.	-6890.

RUN 21 POI: 6
SWEPT/TAPERED TIP

V/OR = 0.377 ALFS,U = -10.0 CLR/S = 0.06698 CP/S = 0.007616
MaT = 0.826 THETA = 14.0 CXR/S = 0.01151 RHO = 0.002258

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	563.6		-6987.7		1135.6		499.4	
1	1065.8	-1007.0	-1239.6	1268.1	1453.8	-1591.3	1660.4	-2214.6
2	-385.4	691.2	675.4	-587.4	-924.1	667.8	-1466.9	813.0
3	77.7	712.3	-171.0	-808.0	142.4	1078.1	6.4	1360.1
4	103.1	188.5	113.5	-64.8	-201.7	145.7	-268.1	203.3
5	-60.5	202.2	-67.0	0.0	-11.9	-144.8	-137.4	-253.9
6	-25.3	55.7	-1.2	-19.4	24.4	-20.5	8.5	-98.2
7	-116.4	87.1	-109.7	51.5	86.5	-45.8	1.8	6.3
8	6.5	6.0	34.8	-9.3	-7.9	-4.2	18.1	-5.2
9	-13.3	9.1	0.3	8.7	26.0	20.3	38.1	22.3
10	-32.5	5.2	-29.8	4.5	32.1	34.5	-4.1	44.4

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	98.3		-3930.9		3826.3		16429.0	
1	190.3	182.6	-2510.5	5287.2	-3572.4	5164.7	-2990.8	4403.1
2	35.2	14.9	1582.3	-2093.3	2073.9	-2111.1	2188.8	-1707.1
3	-56.9	70.4	-1937.3	-100.2	-1533.6	-724.0	-976.6	-512.4
4	4.7	-23.0	2745.9	2148.0	2649.3	1808.2	2196.1	1362.9
5	-40.3	15.9	957.5	-2715.0	1039.4	-2134.1	1061.3	-1662.0
6	4.5	-8.6	210.8	-337.4	86.5	-259.0	72.2	-133.3
7	-6.4	-12.1	-256.3	227.0	-201.8	174.6	-2.7	49.2
8	3.9	-0.8	68.1	-28.1	-20.1	-35.2	-70.9	-13.9
9	2.7	-0.0	49.5	51.6	35.9	-5.3	51.5	-0.7
10	3.7	0.9	-99.3	-20.2	-69.4	-118.1	-5.7	-111.2

RUN 21 POINT 6
SWEPT/TAPERED TIP

V/OR = 0.377 ALFS,U = -10.0 CLR/S = 0.06698 CP/S = 0.307616
MAT = 0.826 THETA = 14.0 CXR/S = 0.01151 RHC = 0.002258

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1183.	-7782.	1753.	356.	242.	-3120.	4364.	17952.
11.25	2261.	-8125.	2197.	1050.	306.	-4658.	2539.	16178.
22.50	2685.	-8349.	2557.	1839.	411.	-6262.	770.	14248.
33.75	2165.	-8418.	2974.	2601.	508.	-6204.	105.	13408.
45.00	1351.	-8120.	2854.	2623.	499.	-4150.	1379.	14228.
56.25	708.	-7496.	1862.	1433.	402.	-1903.	4058.	16325.
67.50	246.	-6706.	606.	-204.	318.	-974.	6143.	18079.
78.75	-99.	-5917.	-379.	-1425.	261.	-803.	7067.	18807.
90.00	-479.	-5451.	-952.	-2101.	202.	-314.	7939.	19502.
101.25	-894.	-5360.	-989.	-2154.	142.	1076.	9278.	20676.
112.50	-1085.	-5298.	-711.	-1721.	85.	3145.	10704.	21812.
123.75	-1105.	-5244.	-579.	-1531.	45.	3909.	11229.	22332.
135.00	-1230.	-5422.	-623.	-1878.	49.	1860.	9978.	21878.
146.25	-1295.	-5530.	-782.	-2309.	78.	-747.	8305.	21034.
157.50	-1056.	-5187.	-1198.	-2620.	103.	-677.	8641.	21144.
168.75	-771.	-4705.	-1637.	-2850.	113.	1824.	10805.	22370.
180.00	-723.	-4668.	-1640.	-2782.	63.	4274.	12729.	23667.
191.25	-775.	-5007.	-1188.	-2331.	-76.	4560.	12985.	24031.
202.50	-608.	-5691.	-496.	-1602.	-225.	1231.	10263.	22034.
213.75	-7.	-6401.	323.	-528.	-287.	-5403.	4116.	16864.
225.00	864.	-7139.	1251.	860.	-255.	-12620.	-3006.	10726.
236.25	1558.	-8105.	2400.	2337.	-177.	-17168.	-7691.	6973.
247.50	2003.	-9073.	3641.	3789.	-110.	-16808.	-8160.	6748.
258.75	2442.	-9535.	4416.	4991.	-91.	-11581.	-4419.	9394.
270.00	2711.	-9517.	4543.	5524.	-79.	-5308.	790.	13095.
281.25	2510.	-9358.	4347.	5228.	-34.	-2971.	2969.	14842.
292.50	1991.	-9011.	3807.	4222.	15.	-5518.	881.	13358.
303.75	1419.	-8355.	2823.	2810.	51.	-9604.	-2383.	10812.
315.00	883.	-7584.	1836.	1538.	58.	-11525.	-3724.	9816.
326.25	483.	-6995.	1204.	699.	139.	-9860.	-2115.	11262.
337.50	280.	-6865.	943.	147.	159.	-6128.	1529.	14577.
348.75	417.	-7253.	1176.	-31.	191.	-3360.	4371.	17557.

POINT 3
-RED TIP

./GR = .376 ALFS,U = 0.0 CLR/S = 0.09654 CP/S = 0.004739
MAT = .25 THETA = 12.0 CXR/S = 0.00045 RHO = 0.002294

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	184.2		-6366.9		400.7		-588.6	
1	1387.9	-1432.8	-1554.7	1686.3	1737.1	-2061.4	1975.5	-2795.7
2	-707.6	1166.0	1269.1	-1146.6	-1586.6	1475.2	-2248.3	1909.6
3	146.6	756.3	-391.1	-974.7	407.6	1366.8	273.6	1815.4
4	195.9	351.9	130.5	-185.1	-223.5	180.5	-354.5	-48.7
5	255.9	337.9	-161.6	37.1	-189.2	-175.9	-702.3	-214.1
6	195.3	289.2	-69.4	28.4	-5.5	-238.6	-289.1	-329.7
7	-34.4	398.7	-103.3	296.1	26.0	-319.4	-22.0	-71.3
8	48.5	-50.8	-1.9	-67.7	-57.9	-4.5	-57.3	-34.7
9	28.6	81.9	44.4	104.1	18.9	-85.3	46.3	-1.8
10	-8.9	17.1	-6.7	23.4	118.6	-15.8	113.2	13.7

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	111.4		-2544.0		5035.0		16550.5	
1	172.1	286.3	-4842.9	6770.8	-5277.5	6190.1	-4109.7	5060.4
2	57.9	46.8	4904.8	-4829.8	4971.3	-5144.1	4249.2	-4359.7
3	-14.7	44.3	-4285.6	579.0	-3596.7	-596.9	-2432.5	-519.3
4	-4.1	-45.2	3120.7	3303.6	2888.4	2950.7	2499.3	2718.8
5	-40.0	-40.5	-929.8	-3932.2	-24.8	-3176.7	709.4	-2617.1
6	-78.6	-69.2	-972.2	-1555.8	-766.4	-1083.4	-259.4	-1023.1
7	-72.3	-24.2	-229.6	1288.8	-183.2	1233.6	-128.1	536.8
8	-52.4	8.4	-291.9	-215.0	-220.5	-177.1	-269.2	-109.5
9	-4.9	9.9	-7.9	507.6	-248.7	394.9	-265.3	236.2
10	8.5	8.0	115.7	313.9	21.3	344.7	171.7	308.6

RUN 21 POINT 3
SWEPT/TAPERED TIP

V/OR =	0.376	ALFS,U =	6.0	CLR/S =	0.09654	CP/S =	0.004739
MAT =	0.825	THETA =	12.0	CXR/S =	0.00045	RHO =	0.002294

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1692.	-7211.	642.	-1853.	123.	-5963.	2598.	16716.
11.25	3180.	-7473.	932.	-726.	257.	-5835.	2291.	15212.
22.50	2702.	-8024.	2336.	1621.	556.	-5359.	961.	13099.
33.75	1367.	-8379.	3705.	3621.	688.	-3391.	598.	12519.
45.00	682.	-8059.	3173.	3186.	579.	-1396.	2342.	13637.
56.25	682.	-7255.	1417.	870.	428.	-2426.	3325.	14430.
67.50	617.	-6206.	-115.	-1325.	372.	-4769.	2999.	14644.
78.75	-47.	-5284.	-1269.	-2740.	335.	-5064.	3594.	15211.
90.00	-1218.	-4924.	-1781.	-3332.	263.	-2285.	6248.	17281.
101.25	-2037.	-4748.	-1578.	-3189.	216.	3408.	10548.	21484.
112.50	-1981.	-4241.	-1717.	-3327.	181.	8637.	15304.	25169.
123.75	-1888.	-3954.	-2308.	-4171.	122.	8356.	15501.	25293.
135.00	-2491.	-4255.	-2435.	-4754.	120.	4333.	12727.	23625.
146.25	-2971.	-4142.	-2573.	-4782.	190.	3792.	12407.	23393.
157.50	-2527.	-3100.	-3379.	-4849.	209.	8586.	16041.	24982.
168.75	-1900.	-2357.	-3851.	-4988.	139.	13660.	20110.	27507.
180.00	-1877.	-2878.	-3359.	-4996.	43.	14629.	21260.	29168.
191.25	-1832.	-3958.	-2574.	-4676.	-50.	11641.	18963.	27915.
202.50	-957.	-4790.	-1691.	-3497.	-124.	6135.	14241.	24063.
213.75	324.	-5737.	-382.	-1504.	-171.	-3218.	6235.	17651.
225.00	1179.	-7241.	1364.	737.	-205.	-16437.	-5922.	7871.
236.25	1649.	-8782.	3348.	3201.	-221.	-25915.	-16067.	-485.
247.50	2248.	-9673.	4846.	5505.	-235.	-23965.	-15768.	-624.
258.75	2906.	-9547.	5188.	6539.	-263.	-14074.	-7143.	5620.
270.00	3118.	-9937.	4959.	6179.	-209.	-5242.	705.	11957.
281.25	2771.	-9713.	4672.	4956.	-83.	-2080.	3745.	15913.
292.50	2187.	-9149.	3628.	2883.	-138.	-5207.	2319.	15824.
303.75	1578.	-8019.	1760.	702.	-343.	-10545.	-1310.	11798.
315.00	777.	-6438.	179.	-335.	-242.	-10326.	-1443.	9995.
326.25	-376.	-5404.	-474.	-642.	222.	-4657.	3251.	13667.
337.50	-1203.	-5745.	-239.	-1262.	489.	-2076.	5947.	17402.
348.75	-460.	-6716.	399.	-1892.	316.	-4356.	4111.	17681.

RUN 21 POINT 7
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -10.0 CLR/S = 0.08246 CP/S = 0.009637
MAT = 0.828 THETA = 16.2 CXR/S = 0.01444 RHO = 0.002259

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	902.0		-7172.8		1347.6		637.5	
1	1248.3	-949.6	-1389.1	1184.4	1632.3	-1524.1	1862.8	-2194.5
2	-572.7	686.2	924.1	-434.5	-1224.0	457.1	-1885.6	470.2
3	-182.2	880.1	58.1	-1013.1	-168.2	1340.8	-414.3	1636.9
4	80.6	203.4	146.0	-31.5	-271.0	132.2	-351.4	223.6
5	-187.0	130.0	-83.0	-14.4	69.8	-126.4	-19.4	-203.8
6	-41.9	51.9	18.9	-13.5	38.2	6.4	69.8	-62.2
7	-126.2	93.3	-119.4	83.6	89.4	-66.2	-3.9	44.6
8	-11.8	18.3	23.2	15.4	31.2	-15.8	33.2	16.8
9	-18.7	8.6	-8.1	17.0	42.3	31.1	52.7	44.8
10	-29.8	3.0	-22.7	1.4	37.0	18.6	8.2	39.0

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	74.0		-4027.5		3624.6		15500.3	
1	220.4	225.5	-3461.5	5523.6	-4531.7	5266.7	-3822.8	4568.0
2	38.6	60.7	2301.9	-1848.4	2917.9	-1774.2	2966.1	-1349.6
3	-95.7	77.5	-2783.0	-511.5	-2049.3	-1207.2	-1325.4	-770.5
4	8.4	-30.5	2546.4	4210.2	2536.0	3613.0	2200.0	2614.0
5	-38.1	12.7	1933.0	-3067.2	1826.4	-2424.6	1684.4	-1921.3
6	21.1	-14.8	610.5	-93.0	423.5	-128.4	345.4	-48.3
7	-1.8	-14.0	-456.8	286.3	-384.1	190.4	-139.0	-85.6
8	5.6	-1.1	63.6	67.0	-89.3	19.0	-112.8	-59.7
9	1.8	-2.2	4.1	17.8	-21.6	-73.6	-43.7	-79.8
10	5.8	-1.0	-97.7	30.5	-112.3	10.8	-56.8	21.7

RUN 21 POINT 7
SWEPT/TAPERED TIP

V/OR =	0.375	ALFS,U =	-10.0	CLR/S =	0.08246	CP/S =	0.009637
MAT =	0.828	THETA =	16.0	CXR/S =	0.01444	RHO =	0.002259

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1061.	-7625.	1625.	-10.	240.	-3367.	4140.	17196.
11.25	2365.	-8011.	2118.	864.	296.	-3734.	3356.	16108.
22.50	3180.	-8471.	2641.	1709.	412.	-5684.	1283.	14061.
33.75	2973.	-8840.	3360.	2644.	550.	-6634.	-392.	12547.
45.00	2287.	-8686.	3465.	3002.	590.	-4879.	429.	12870.
56.25	1594.	-8031.	2536.	2101.	519.	-2178.	3213.	14161.
67.50	922.	-7203.	1249.	513.	410.	-1034.	5406.	16535.
78.75	324.	-6397.	157.	-920.	297.	-1424.	6084.	17261.
90.00	-169.	-5807.	-637.	-1908.	195.	-1533.	6627.	17756.
101.25	-560.	-5529.	-931.	-2153.	114.	334.	8549.	19234.
112.50	-757.	-5404.	-704.	-1680.	36.	3763.	11334.	21395.
123.75	-865.	-5437.	-321.	-1284.	-21.	5409.	12379.	22482.
135.00	-1070.	-5737.	-108.	-1458.	-20.	2904.	10366.	21601.
146.25	-1146.	-5925.	-275.	-1885.	21.	-1137.	7641.	19959.
157.50	-856.	-5550.	-843.	-2309.	72.	-2147.	7353.	19470.
168.75	-491.	-4879.	-1451.	-2724.	110.	1158.	10192.	21199.
180.00	-408.	-4542.	-1707.	-2966.	67.	6162.	14461.	24489.
191.25	-555.	-4757.	-1516.	-2856.	-97.	8633.	16854.	26570.
202.50	-602.	-5307.	-952.	-2309.	-282.	5664.	14351.	24572.
213.75	-213.	-5950.	-1[illegible].	-1260.	-367.	-2116.	7181.	18495.
225.00	607.	-6745.	774.	185.	-338.	-11592.	-1700.	10946.
236.25	1479.	-7870.	2089.	1832.	-255.	-19119.	-9054.	5029.
247.50	2235.	-9074.	3586.	3547.	-191.	-20887.	-11597.	3269.
258.75	2956.	-9823.	4656.	5102.	-173.	-15443.	-7772.	6120.
270.00	3460.	-10040.	5151.	6162.	-150.	-6932.	-943.	10910.
281.25	3251.	-10068.	5263.	6401.	-84.	-1965.	3208.	14032.
292.50	2672.	-9728.	4809.	5591.	-15.	-3267.	2339.	13680.
303.75	2005.	-9027.	3731.	4009.	28.	-8331.	-1700.	10452.
315.00	1415.	-8015.	2469.	2359.	54.	-12475.	-5098.	7333.
326.25	935.	-7127.	1370.	931.	70.	-12519.	-4619.	7832.
337.50	517.	-6831.	745.	-228.	105.	-9137.	-759.	11922.
348.75	382.	-7152.	951.	-602.	176.	-5375.	2873.	15923.

RUN 12 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.250 ALFS;U = -2.5 CLR/S = 0.06861 CP/S = 0.002674
MAT = 0.747 THETA = 8.0 CXR/S = 0.00198 RHO = 0.002303

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-138.1		-6394.4		282.0		-986.7	
1	516.4	-917.5	-624.7	1221.0	828.6	-1403.0	1102.7	-1797.4
2	-255.3	426.6	612.9	-401.0	-904.9	391.5	-1378.1	519.7
3	227.0	102.9	-176.8	-408.0	164.2	629.3	10.3	949.8
4	-129.0	-32.0	86.8	-51.8	-28.4	82.3	160.4	274.9
5	64.7	52.4	48.8	-77.4	-83.3	-20.6	-72.4	-205.6
6	-20.0	19.5	-32.7	-49.3	33.9	13.4	30.1	-109.8
7	-79.4	63.3	-113.8	21.6	87.1	-83.1	-15.2	-65.5
8	-41.6	95.2	-97.0	109.5	23.2	-109.3	-98.7	-14.4
9	2.5	15.8	-25.8	40.0	-78.7	34.4	-136.8	75.0
10	-1.6	-10.1	20.9	8.6	-20.0	45.1	26.5	60.0

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	175.2		-3148.4		6154.9		3886.1	
1	43.7	185.2	-2378.6	4760.5	-2830.4	4373.5	-2261.7	3199.0
2	33.7	19.0	1834.7	-1182.6	2470.8	-1086.6	2209.7	-899.4
3	2.2	-10.1	-1159.5	-357.8	-980.6	-920.1	-424.4	-924.6
4	-17.1	-11.6	31.6	899.0	-45.0	790.2	-327.8	337.3
5	2.5	6.6	-365.0	1043.3	-224.1	1184.4	-167.4	1187.0
6	-4.3	0.8	-101.3	184.9	-60.8	203.1	5.9	295.9
7	-4.9	6.3	-384.4	105.3	-374.5	189.4	-146.2	72.8
8	-8.2	6.0	-196.8	210.9	-104.1	230.4	73.0	38.7
9	-2.4	-2.6	-25.5	13.4	185.5	-86.8	197.0	-117.1
10	3.8	1.4	63.3	-8.0	122.4	-134.6	37.9	-145.5

RUN 12 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.250 ALFS,U = -2.5 CLR/S = 0.06861 CP/S = 0.002674
MAT = 0.747 THETA = 8.0 CXR/S = 0.00198 RHO = 0.002303

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	145.	-6696.	304.	-1358.	224.	-5780.	4314.	3082.
11.25	487.	-6648.	546.	-723.	283.	-2746.	6375.	4078.
22.50	450.	-6755.	779.	-244.	327.	-1025.	7517.	4663.
33.75	48.	-6945.	933.	-120.	336.	-1828.	6642.	4000.
45.00	-196.	-6729.	842.	-195.	339.	-3336.	4757.	2436.
56.25	-199.	-6140.	240.	-692.	366.	-3252.	4946.	2287.
67.50	-363.	-5692.	-472.	-1572.	384.	-1709.	7118.	4003.
78.75	-750.	-5558.	-731.	-2267.	351.	-188.	9817.	5709.
90.00	-1047.	-5436.	-768.	-2416.	310.	909.	9675.	6499.
101.25	-1166.	-5236.	-917.	-2273.	305.	1626.	10389.	6690.
112.50	-1226.	-5193.	-987.	-2325.	295.	1528.	10382.	6621.
123.75	-1234.	-5248.	-945.	-2652.	263.	1026.	9903.	6780.
135.00	-1199.	-5142.	-1074.	-3006.	255.	1203.	10212.	7408.
146.25	-1232.	-4975.	-1373.	-3372.	262.	2031.	11308.	8264.
157.50	-1352.	-4933.	-1600.	-3670.	230.	2822.	12455.	9105.
168.75	-1433.	-4912.	-1630.	-3536.	178.	3278.	13152.	9397.
180.00	-1317.	-4911.	-1532.	-3135.	142.	2846.	12762.	8688.
191.25	-942.	-5163.	-1347.	-2901.	113.	965.	11170.	7433.
202.50	-392.	-5709.	-887.	-2517.	91.	-1760.	8929.	6054.
213.75	243.	-6401.	-108.	-1726.	84.	-4237.	6558.	4608.
225.00	889.	-7114.	672.	-918.	68.	-6169.	4546.	3456.
236.25	1284.	-7757.	1500.	134.	30.	-8006.	2481.	2022.
247.50	1210.	-8331.	2633.	1770.	-17.	-10111.	-647.	-763.
258.75	976.	-8728.	3395.	3010.	-58.	-11692.	-3279.	-3424.
270.00	584.	-8576.	3103.	3209.	-76.	-11230.	-2728.	-3743.
281.25	995.	-7993.	2562.	3124.	-57.	-8963.	-285.	-2475.
292.50	654.	-7741.	2459.	2633.	-26.	-6952.	1369.	-735.
303.75	284.	-7814.	1998.	932.	9.	-5944.	2958.	1882.
315.00	303.	-7328.	895.	-864.	74.	-5206.	4828.	3848.
326.25	431.	-6366.	172.	-1305.	149.	-5155.	4699.	3100.
337.50	247.	-6026.	144.	-1180.	182.	-6404.	2949.	1557.
348.75	-1.	-6426.	218.	-1420.	190.	-7289.	2646.	1827.

RUN 12 POINT 11
SWEPT/TAPERED TIP

V/OR =	0.250	ALFS,U =	-5.0	CLR/S =	0.11434	CP/S = 0.007080
MAT =	0.751	THETA =	14.0	CXR/S =	0.00936	RHO = 0.002307

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	823.2		-7125.2		1104.0		-343.6	
1	726.5	-916.4	-621.4	1346.3	845.3	-1521.2	1269.0	-1995.1
2	-130.8	373.9	603.1	-145.6	-1001.5	-130.0	-1921.7	-368.0
3	-212.3	413.9	353.3	-596.2	-466.9	1040.4	-714.1	1415.4
4	-159.1	-208.7	135.2	35.3	-106.8	20.2	-28.5	531.7
5	15.7	-100.4	65.9	-56.2	15.7	84.1	211.4	-58.5
6	-177.9	-138.4	-111.5	-66.1	93.0	130.9	84.3	164.2
7	-94.0	-183.0	-92.7	-251.8	144.8	139.5	7.6	-96.7
8	-112.3	-65.5	-137.3	-130.7	108.1	75.8	-7.5	-116.7
9	-62.9	-2.0	-91.4	-17.7	-74.3	-33.6	-180.9	-95.0
10	-11.1	12.2	-36.7	21.0	-42.1	-17.9	-102.6	61.0

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	61.8		-4348.1		4318.0		3356.3	
1	128.4	332.3	-2090.2	6329.0	-2981.9	5400.9	-2785.0	3857.8
2	111.6	79.4	2512.3	-860.7	3330.3	-27.2	3646.3	337.4
3	-16.4	19.4	-1729.6	-624.2	-1136.0	-1926.9	-638.8	-1744.4
4	14.0	-46.2	-384.6	3129.2	-508.7	2866.0	-592.4	1283.7
5	2.3	10.1	-288.5	-1337.7	-290.7	-1202.4	-613.7	-490.4
6	21.3	24.9	-538.0	-116.5	-338.2	-328.8	-106.0	-277.7
7	-9.3	6.5	-513.7	-205.7	-612.8	-50.5	-220.7	288.8
8	-4.8	5.0	-236.9	-215.0	-173.6	-167.7	-56.9	140.2
9	9.4	-5.1	-299.5	107.7	-61.7	216.6	32.0	286.3
10	1.3	-5.8	-169.1	88.2	-83.9	125.9	-25.2	0.3

RUN 12 POINT 11
SWEPT/TAPERED TIP

V/OR = 0.250 ALFS,U = -5.0 CLR/S = 0.11434 CP/S = 0.007080
MAT = 0.751 THETA = 14.0 CXR/S = 0.00936 RHO = 0.002307

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	565.	-7053.	620.	-1727.	203.	-8086.	1461.	1996.
11.25	656.	-7365.	1247.	-776.	337.	-4809.	3607.	3483.
22.50	1563.	-7061.	1339.	130.	479.	-701.	6288.	4414.
33.75	2114.	-7150.	1207.	145.	530.	595.	7505.	4840.
45.00	1890.	-7587.	1485.	-31.	485.	-281.	7000.	5129.
56.25	1322.	-7571.	1613.	-163.	446.	-1892.	5356.	4373.
67.50	768.	-6870.	800.	-666.	429.	-3119.	4470.	2952.
78.75	245.	-5971.	-242.	-1346.	366.	-2628.	5469.	2823.
90.00	-318.	-5468.	-595.	-1907.	264.	-846.	7120.	4301.
101.25	-840.	-5465.	-616.	-2232.	180.	1032.	8886.	6075.
112.50	-1062.	-5605.	-671.	-2042.	130.	2961.	11088.	7376.
123.75	-807.	-5665.	-409.	-1532.	111.	3931.	11754.	7573.
135.00	-242.	-5737.	109.	-1349.	123.	2283.	9298.	6333.
146.25	196.	-5928.	343.	-1753.	150.	-694.	6345.	5367.
157.50	207.	-6215.	210.	-2515.	159.	-1990.	6148.	6579.
168.75	-48.	-6400.	-27.	-3039.	126.	-713.	8561.	8947.
180.00	-181.	-6280.	-310.	-2913.	64.	1757.	11627.	10448.
191.25	-33.	-6047.	-648.	-2707.	-4.	3213.	13591.	10909.
202.50	289.	-6119.	-769.	-2805.	-55.	1783.	13052.	10406.
213.75	646.	-6604.	-314.	-2475.	-202.	-2857.	9362.	8021.
225.00	578.	-7326.	595.	-1557.	-246.	-9432.	3162.	3885.
236.25	1349.	-8028.	1559.	-506.	-223.	-15289.	-3302.	-462.
247.50	1754.	-8559.	2667.	1248.	-235.	-17421.	-7207.	-3951.
258.75	1968.	-9124.	3975.	3642.	-299.	-15679.	-7625.	-5974.
270.00	1981.	-9709.	4706.	5028.	-359.	-12704.	-5665.	-5917.
281.25	2095.	-9663.	4491.	5296.	-416.	-9926.	-2815.	-4525.
292.50	2118.	-9025.	4165.	5500.	-433.	-7971.	-998.	-3408.
303.75	1575.	-6842.	3987.	4539.	-304.	-8264.	-1134.	-2264.
315.00	1013.	-8941.	3086.	1646.	-79.	-9372.	-847.	220.
326.25	1317.	-7980.	1449.	-843.	65.	-8140.	1536.	2753.
337.50	1848.	-6449.	226.	-1538.	98.	-6431.	3091.	2938.
348.75	1417.	-6200.	47.	-1750.	126.	-7452.	1992.	1762.

RUN 11 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.251 ALFS,U = 0.0 CLR/S = 0.11752 CP/S = 0.004193
MAT = 0.750 THETA = 12.0 CXR/S = -0.00127 RHO = 0.002271

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	447.8		-7106.9		558.7		-791.8	
1	762.6	-934.4	-797.1	1461.6	951.4	-1455.2	1307.7	-1893.5
2	-318.8	396.7	944.1	-234.9	-1164.6	57.9	-1900.0	5.9
3	-132.3	417.7	295.3	-807.9	-335.1	1009.8	-646.0	1286.0
4	-154.1	-23.1	92.9	38.2	-86.3	44.8	-41.3	478.5
5	120.4	14.0	33.3	-50.8	-24.3	-71.2	-1.3	-167.1
6	38.9	5.3	18.9	-14.0	-10.4	15.7	97.0	-50.7
7	-47.5	33.0	-71.2	-8.3	81.5	-91.8	11.0	-109.5
8	-31.9	6.2	-99.3	-60.3	88.0	-99.3	-36.1	-197.1
9	-45.0	25.4	-106.8	22.4	16.0	-111.6	-144.9	-119.2
10	-27.2	40.1	-56.7	90.2	48.4	-77.6	-56.4	71.8

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	100.7		-2872.3		4329.7		4602.3	
1	94.0	294.7	-2713.6	5545.7	-3511.9	4771.8	-3199.9	3682.2
2	103.4	70.7	3432.0	-861.6	3914.2	-405.4	3941.7	-227.4
3	6.3	23.9	-1765.8	-765.2	-1318.6	-1614.4	-665.4	-1436.4
4	-30.5	-37.0	-509.6	3919.5	-475.1	3465.8	-490.8	2049.0
5	-41.7	4.3	-2433.7	-74.0	-2115.2	257.3	-1792.9	485.6
6	-47.6	12.7	-494.3	-90.0	-300.2	-218.5	-319.9	-138.5
7	-23.0	22.1	-488.1	501.9	-577.3	528.0	-340.6	326.0
8	-7.2	2.6	-93.0	-99.1	-226.2	98.7	-82.2	143.3
9	6.5	-13.1	-375.7	133.9	-401.1	326.2	-178.3	322.9
10	-0.4	-14.8	-296.8	329.9	-358.7	388.6	-119.4	192.6

RUN 11 POINT 25
SWEPT/TAPERED TIP

V/OR = 0.251 ALFS,U = 0.0 CLR/S = 0.11752 CP/S = 0.004193
MAT = 0.750 THETA = 12.0 CXR/S = -0.00127 RHO = 0.002271

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	613.	-6853.	123.	-2202.	161.	-8611.	-1040.	1355.
11.25	1076.	-6855.	-31.	-1599.	310.	-1858.	5519.	5616.
22.50	1216.	-7232.	760.	-335.	520.	3255.	9153.	7923.
33.75	1088.	-7815.	1618.	394.	558.	3292.	7939.	7228.
45.00	1103.	-7832.	1415.	309.	444.	715.	5941.	5466.
56.25	1010.	-7378.	808.	-231.	398.	-3223.	3088.	2775.
67.50	532.	-6808.	312.	-967.	399.	-6131.	549.	844.
78.75	-131.	-6181.	-351.	-1759.	329.	-4660.	2268.	2424.
90.00	-777.	-5770.	-869.	-2366.	247.	-247.	6815.	6128.
101.25	-1188.	-5555.	-991.	-2439.	214.	3825.	10440.	8855.
112.50	-1148.	-5294.	-1040.	-2137.	190.	6170.	12324.	9867.
123.75	-884.	-5319.	-898.	-2130.	181.	4982.	11105.	9067.
135.00	-724.	-5727.	-506.	-2519.	198.	718.	7032.	7041.
146.25	-651.	-5951.	-487.	-2924.	214.	-1749.	5055.	6443.
157.50	-636.	-5886.	-883.	-3295.	214.	135.	7725.	8706.
168.75	-700.	-5769.	-1133.	-3473.	170.	4021.	11517.	11945.
180.00	-704.	-5560.	-1256.	-3255.	76.	6943.	14808.	13709.
191.25	-570.	-5490.	-1376.	-3112.	6.	6712.	14848.	13134.
202.50	-259.	-5757.	-1216.	-3131.	-25.	3186.	11926.	10950.
213.75	313.	-6265.	-745.	-2595.	-72.	-1358.	8104.	8208.
225.00	900.	-7028.	-20.	-1630.	-110.	-6510.	3619.	4763.
236.25	1213.	-8216.	1107.	-637.	-130.	-12310.	-2228.	664.
247.50	1453.	-9151.	2455.	1075.	-185.	-15051.	-6268.	-2558.
258.75	1755.	-9676.	3638.	3270.	-228.	-13557.	-6652.	-4302.
270.00	1915.	-10269.	4243.	4347.	-232.	-11385.	-6069.	-5074.
281.25	1996.	-10357.	4118.	4431.	-308.	-10919.	-4635.	-4216.
292.50	2017.	-9553.	3558.	4495.	-402.	-8050.	-1316.	-1806.
303.75	1620.	-3943.	3028.	3422.	-293.	-5481.	922.	516.
315.00	1301.	-8610.	2043.	693.	-37.	-4747.	1722.	2773.
326.25	746.	-7493.	527.	-1401.	122.	-4249.	3299.	4694.
337.50	662.	-6338.	-179.	-1750.	151.	-5748.	2354.	3551.
348.75	472.	-6406.	137.	-1887.	140.	-9424.	-1755.	585.

RUN 17 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -5.0 CLR/S = 0.07192 CP/S = 0.005460
MAT = 0.841 THETA = 12.0 CXR/S = 0.00533 RHO = 0.002208

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	139.6		-7082.7		710.7		468.5	
1	1115.2	-1365.5	-1522.2	1689.0	1500.6	-1817.8	1685.7	-2470.7
2	-544.0	1014.8	1018.8	-1127.0	-1123.3	1204.3	-1671.8	1542.9
3	190.0	607.4	-559.4	-838.7	526.9	1118.7	462.3	1616.3
4	160.0	304.3	143.9	-106.7	-146.3	77.4	-169.1	7.1
5	129.5	119.8	-84.6	77.0	-176.5	-69.0	-495.7	36.0
6	49.0	60.6	-31.8	35.9	5.3	-82.3	-128.1	-65.7
7	-32.7	161.4	-34.7	158.9	25.8	-124.8	37.1	1.0
8	1.7	-50.5	3.7	-112.7	0.2	62.0	23.9	-2.0
9	-6.2	55.2	9.9	48.8	37.1	-40.4	51.3	8.9
10	2.8	13.3	-34.0	1.4	22.6	-5.9	10.9	-16.3

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	PITCH LINK LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	80.5		-3095.7		5750.7		3175.0	
1	168.7	161.9	-3738.3	5700.7	-4359.7	5563.7	-3322.3	4608.2
2	32.4	12.2	2725.7	-3163.2	3006.5	-3473.1	2719.8	-2932.1
3	-60.8	76.5	-2325.1	593.2	-2000.8	-382.4	-1261.2	-559.0
4	-10.9	4.3	3810.9	2082.7	3494.1	1902.9	2834.6	1589.7
5	-14.5	19.6	1396.9	-288.4	1768.1	-230.5	1813.9	-491.6
6	-13.2	6.1	-192.7	-665.3	-243.8	-527.0	-48.8	-508.4
7	-13.2	-2.2	256.0	520.8	225.6	504.0	161.5	196.4
8	-7.2	-1.4	-108.0	-261.4	-149.6	-202.4	-200.9	-60.1
9	2.1	-7.6	44.7	142.7	-63.2	124.1	-62.2	42.0
10	-2.2	-2.2	12.3	34.4	79.0	56.5	90.8	63.0

RUN 17 POINT 13
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -5.0 CLR/S = 0.07192 CP/S = 0.005460
MAT = 0.841 THETA = 12.0 CXR/S = 0.00533 RHO = 0.002208

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1205.	-3173.	1383.	275.	162.	-1213.	7507.	5900.
11.25	2091.	-8506.	1916.	1484.	293.	-1473.	6651.	4327.
22.50	2051.	-8779.	2611.	2829.	442.	-4129.	3265.	896.
33.75	1409.	-8906.	3075.	3558.	477.	-6506.	268.	-1716.
45.00	788.	-8554.	2610.	2908.	404.	-6866.	-28.	-1789.
56.25	343.	-7735.	1337.	1155.	334.	-5279.	2506.	546.
67.50	-50.	-6700.	-14.	-603.	294.	-2464.	6364.	3749.
78.75	-545.	-5788.	-941.	-1617.	231.	479.	9632.	6129.
90.00	-1166.	-5394.	-1261.	-1931.	145.	2503.	11589.	7568.
101.25	-1620.	-5345.	-1195.	-1988.	79.	3456.	12550.	8641.
112.50	-1715.	-5099.	-1255.	-2153.	50.	3378.	12403.	8820.
123.75	-1817.	-4848.	-1516.	-2494.	47.	2248.	11409.	8130.
135.00	-2217.	-4954.	-1667.	-2833.	66.	1610.	11358.	8272.
146.25	-2497.	-4772.	-1852.	-2981.	99.	3672.	13487.	9832.
157.50	-2238.	-3890.	-1334.	-2982.	107.	7480.	16437.	11347.
168.75	-1789.	-3309.	-695.	-3070.	65.	9256.	17694.	11778.
180.00	-1587.	-3791.	-2445.	-3206.	-3.	7518.	16367.	11241.
191.25	-1313.	-4741.	-1798.	-2946.	-76.	4386.	13858.	10011.
202.50	-507.	-5618.	-1068.	-2012.	-161.	966.	11089.	7868.
213.75	492.	-6724.	4.	-476.	-227.	-4504.	6228.	3688.
225.00	1109.	-8215.	1666.	1600.	-227.	-12091.	-1537.	-2653.
236.25	1498.	-9595.	3426.	3943.	-192.	-17597.	-7997.	-7990.
247.50	2062.	-10339.	4503.	5789.	-165.	-17249.	-8591.	-8918.
258.75	2604.	-10475.	4769.	6533.	-124.	-12170.	-4312.	-5884.
270.00	2753.	-10383.	4581.	6155.	-54.	-6379.	918.	-1474.
281.25	2511.	-10083.	3972.	4858.	2.	-3128.	4398.	1994.
292.50	1940.	-9276.	2864.	3143.	38.	-3835.	4455.	2279.
303.75	1084.	-8111.	1665.	1793.	73.	-7463.	1407.	-683.
315.00	275.	-7169.	820.	971.	94.	-10713.	-1365.	-3271.
326.25	-302.	-6785.	374.	207.	94.	-10894.	-1068.	-2443.
337.50	-439.	-6990.	377.	-454.	98.	-8048.	1780.	967.
348.75	82.	-7599.	829.	-463.	112.	-4014.	5258.	4439.

RUN 21 POINT 14
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -10.0 CLR/S = 0.06865 CP/S = 0.008521
MAT = 0.842 THETA = 15.0 CXR/S = 0.01186 RHO = 0.002210

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R COS	.3R SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	636.5		-7038.4		1229.2		543.3	
1	1178.6	-991.5	-1336.5	1216.5	1556.7	-1564.6	1805.7	-2194.5
2	-517.4	747.0	788.0	-616.4	-1028.6	696.7	-1644.4	785.1
3	-35.9	791.6	-129.4	-839.0	96.0	1153.7	-4.4	1464.0
4	126.2	172.2	128.0	-56.6	-227.4	145.1	-309.5	257.3
5	-238.2	191.3	-68.2	4.4	90.1	-150.7	72.5	-257.1
6	18.5	13.7	23.8	-40.5	8.3	-5.5	3.0	-95.8
7	-92.3	135.4	-71.8	116.7	77.8	-110.8	35.0	5.8
8	8.3	24.3	39.8	26.0	11.8	-29.2	53.7	14.4
9	-22.7	18.8	-18.9	33.2	46.1	13.1	17.9	37.8
10	-23.7	11.4	-26.9	4.1	37.5	12.0	11.7	20.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

HARMONIC	COS	SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	71.7		-3878.5		4545.9		17908.2	
1	222.8	161.8	-2940.4	5276.5	-4033.7	5217.1	-3317.1	4496.8
2	35.9	33.2	1670.6	-2319.9	2215.6	-2340.4	2357.3	-1810.0
3	-86.5	83.0	-2158.5	158.4	-1685.0	-570.2	-1182.5	-367.1
4	9.5	-32.5	3019.9	3224.0	2902.6	2779.6	2456.6	2085.0
5	-58.2	3.9	1214.1	-2374.2	1109.3	-1811.3	956.1	-1417.7
6	12.2	-23.8	439.3	-413.9	301.1	-352.7	249.1	-201.1
7	6.1	-2.1	-308.4	383.8	-317.2	332.3	-154.1	63.6
8	4.2	6.2	33.8	74.3	-108.2	56.3	-148.4	-6.7
9	-5.0	7.8	-26.5	62.3	-27.0	-44.4	40.9	-64.1
10	0.9	-8.5	-57.5	37.5	-35.2	22.5	56.2	18.3

RUN 21 POINT 14
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = -10.0 CLR/S = 0.06865 CP/S = 0.008521
MAT = 0.842 THETA = 15.0 CXR/S = 0.01186 RHO = 0.002210

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1038.	-7711.	1898.	585.	212.	-2992.	4868.	19222.
11.25	2256.	-8029.	2231.	1254.	284.	-3369.	4275.	18254.
22.50	2814.	-8491.	2690.	1899.	396.	-5339.	2354.	16500.
33.75	2482.	-8756.	3280.	2614.	503.	-6433.	698.	15279.
45.00	1850.	-9363.	3143.	2762.	555.	-5087.	1182.	15279.
56.25	1181.	-7619.	2098.	1743.	493.	-2918.	3561.	16763.
67.50	472.	-6948.	911.	102.	316.	-1869.	5825.	18791.
78.75	-84.	-6281.	-35.	-1241.	164.	-1517.	7085.	19988.
90.00	-415.	-5679.	-749.	-1967.	128.	-455.	8458.	20872.
101.25	-650.	-5382.	-1022.	-2107.	98.	1839.	10817.	22655.
112.50	-860.	-5286.	-845.	-1813.	0.	4261.	12885.	24331.
123.75	-1156.	-5294.	-550.	-1502.	-69.	4519.	12678.	24247.
135.00	-1531.	-5480.	-399.	-1573.	-66.	1947.	10489.	22992.
146.25	-1592.	-5534.	-605.	-2072.	-31.	-729.	8856.	22235.
157.50	-1135.	-5094.	-1213.	-2741.	49.	-473.	9592.	22757.
168.75	-615.	-4528.	-1787.	-3222.	122.	2512.	12228.	24528.
180.00	-541.	-4461.	-1836.	-3269.	57.	5447.	14775.	26536.
191.25	-818.	-4939.	-1324.	-2796.	-120.	5587.	14915.	26753.
202.50	-878.	-5595.	-523.	-1806.	-269.	1866.	11430.	23815.
213.75	-306.	-6235.	313.	-489.	-339.	-4822.	5109.	18268.
225.00	677.	-7034.	1222.	854.	-325.	-12379.	-2042.	12146.
236.25	1554.	-8127.	2434.	2197.	-225.	-17880.	-7539.	7965.
247.50	2224.	-9149.	3713.	3655.	-123.	-18146.	-8673.	7380.
258.75	2765.	-9621.	4493.	5004.	-83.	-12615.	-4684.	10140.
270.00	3002.	-9632.	4742.	5801.	-56.	-5300.	1260.	14235.
281.25	2699.	-9497.	4683.	5732.	-15.	-1613.	4473.	16791.
292.50	2125.	-9167.	4129.	4708.	12.	-3541.	3066.	15920.
303.75	1559.	-8454.	3044.	3095.	48.	-8498.	-875.	12814.
315.00	1079.	-7625.	1907.	1583.	102.	-11939.	-3489.	10796.
326.25	657.	-6972.	1106.	511.	140.	-11350.	-2541.	11797.
337.50	263.	-6896.	878.	-87.	158.	-8058.	755.	14958.
348.75	232.	-7305.	1309.	-28.	178.	-4766.	3678.	18054.

UN 17 POINT 10
SWEPT/TAPERED TIP

V/OR = 0.401 ALFS,U = 0.0 CLR/S = 0.09496 CP/S = 0.004659
MAT = 0.842 THETA = 12.0 CXR/S = 0.0017 RHO = 0.002228

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	68.0		-6805.8		419.6		-144.3	
1	1414.1	-1016.5	-1828.5	2112.7	1745.3	-2207.4	1806.7	-2817.0
2	-750.1	1287.8	1426.9	-1527.3	-1591.7	1738.6	-2385.4	2401.5
3	231.6	745.8	-544.7	-982.2	527.8	1320.4	481.7	2011.0
4	130.8	295.5	217.1	-195.3	-223.7	181.0	-270.9	61.8
5	196.2	333.9	-87.0	92.6	-200.8	-123.3	-535.7	-99.1
6	109.1	250.8	-93.3	25.4	33.3	-230.7	-223.1	-273.2
7	-154.1	371.2	-241.5	268.2	212.0	-270.1	14.2	-123.9
8	-33.1	-58.4	-91.7	-152.8	-3.7	38.0	-46.5	-89.0
9	-8.9	101.9	-34.3	70.6	-14.2	-121.8	-87.3	-63.5
10	19.3	-3.5	-61.7	66.3	-70.8	-45.0	-128.7	-6.2

C38

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	57.5		-2286.4		6517.8		4494.0	
1	185.6	250.8	-5078.1	7091.3	-5419.2	6549.4	-3662.3	4985.4
2	83.7	29.9	4567.4	-5470.2	4772.3	-6002.1	4158.1	-5328.2
3	-13.3	70.2	-4436.7	1773.2	-3839.9	345.1	-2689.7	-274.5
4	12.3	-37.5	4226.9	3127.4	3718.7	2808.9	2993.1	2382.5
5	-12.9	-26.7	423.4	-4316.7	1046.7	-3681.7	1171.8	-3146.1
6	-43.2	-74.3	-978.4	-1431.6	-876.6	-856.9	-354.0	-747.9
7	-59.8	-31.0	-493.1	930.3	-577.2	910.5	-118.4	440.7
8	-41.6	-20.2	-352.5	-436.4	-122.2	-301.9	-58.4	-115.3
9	-13.2	-17.0	-132.6	434.6	-79.1	467.5	62.2	274.7
10	-19.3	-4.6	-56.2	236.4	211.3	138.7	221.8	13.8

RUN 17 POINT 10
SWEPT/TAPERED TIP

V/OR =	0.201	ALFS,U =	0.0	CLR/S =	0.09496	CP/S =	0.004659
MAT =	0.842	THETA =	12.0	CXR/S =	0.00017	RHO =	0.002228

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1223.	-8146.	833.	-1519.	136.	-4596.	5353.	6178.
11.25	2915.	-8202.	1307.	236.	199.	-5269.	2400.	2777.
22.50	2787.	-8441.	2516.	2826.	506.	-5324.	1669.	-296.
33.75	1475.	-9079.	3464.	4101.	593.	-4469.	1344.	-618.
45.00	521.	-9055.	3271.	3555.	457.	-2872.	2515.	718.
56.25	369.	-8063.	1831.	1620.	355.	-2589.	3933.	2069.
67.50	399.	-6438.	-276.	-823.	306.	-3329.	5467.	3126.
78.75	-229.	-5220.	-1660.	-2304.	244.	-3135.	6767.	3864.
90.00	-1510.	-4962.	-1682.	-2592.	175.	-1409.	8087.	5311.
101.25	-2357.	-4949.	-1466.	-2796.	116.	2451.	11187.	8575.
112.50	-2270.	-4278.	-1948.	-3277.	89.	7449.	15597.	12128.
123.75	-2205.	-3741.	-2614.	-3789.	77.	9274.	17959.	13589.
135.00	-2798.	-3985.	-2863.	-4310.	62.	7123.	17169.	12963.
146.25	-3254.	-3796.	-2978.	-4571.	99.	6572.	16322.	12204.
157.50	-2864.	-2625.	-3459.	-4568.	160.	10463.	18488.	13170.
168.75	-2230.	-1938.	-4013.	-4785.	107.	14585.	22199.	15498.
180.00	-2135.	-2670.	-3707.	-4879.	-37.	14838.	23090.	16651.
191.25	-2087.	-4083.	-2492.	-4156.	-147.	11563.	20128.	15390.
202.50	-1118.	-5350.	-1310.	-2756.	-233.	5539.	15023.	11700.
213.75	427.	-6547.	-116.	-741.	-284.	-4779.	6131.	3936.
225.00	1442.	-8158.	1856.	1942.	-251.	-18464.	-7174.	-7046.
236.25	1944.	-9583.	3979.	4512.	-238.	-27650.	-16936.	-14444.
247.50	2573.	-11046.	5155.	6399.	-296.	-24811.	-15391.	-13386.
258.75	3090.	-11126.	5533.	7524.	-277.	-13139.	-5747.	-6459.
270.00	3085.	-10942.	5324.	7143.	-161.	-2480.	3928.	1415.
281.25	2773.	-10539.	4361.	5192.	-91.	1166.	8412.	5977.
292.50	2187.	-9569.	3159.	3063.	-117.	-2889.	5507.	4367.
303.75	1274.	-8411.	1937.	1148.	-216.	-10535.	-729.	-197.
315.00	451.	-7259.	293.	-667.	-254.	-13250.	-1803.	-1026.
326.25	-226.	-6114.	-880.	-1903.	4.	-8025.	3082.	2481.
337.50	-886.	-5966.	-451.	-1646.	376.	-2568.	6761.	5929.
348.75	-591.	-7161.	521.	-1598.	379.	-2601.	6633.	7261.

RUN 21 POINT 26
SWEPT/TAPERED TIP

V/OR = 0.375 ALFS,U = -5.0 CLR/S = 0.07663 CP/S = 0.005788
MAT = 0.896 THETA = 12.0 CXR/S = 0.00547 RHO = 0.002171

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	134.2		-6563.7		754.6		63.6	
1	1069.2	-1139.7	-1392.2	1283.1	1672.6	-1637.9	2057.4	-2347.2
2	-452.1	1112.1	820.0	-1025.1	-1049.5	1284.2	-1551.8	1543.9
3	136.9	175.1	-460.2	-398.1	498.6	587.0	528.4	782.6
4	334.2	607.7	94.8	-126.9	-268.7	11.3	-483.3	-274.3
5	40.8	-197.1	-107.2	-29.0	-115.9	101.5	-492.8	211.4
6	60.4	168.4	57.2	24.4	-29.5	-76.6	-41.5	-186.6
7	-367.5	-11.9	-417.8	-82.6	373.8	55.2	-36.7	-30.9
8	18.4	14.1	88.7	-0.5	-7.9	-26.8	80.6	2.4
9	-38.7	21.7	-24.5	57.2	36.7	38.4	14.5	111.1
10	-12.1	31.0	-30.3	-35.2	-16.2	-99.0	-58.9	-120.9

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	71.1		-2425.4		7933.8		1481.9	
1	196.3	156.3	-4574.3	5424.5	-5387.5	5276.8	-4382.4	4882.1
2	20.3	74.3	2428.1	-3192.7	2701.2	-3634.8	2313.1	-2887.6
3	-101.2	47.5	-1383.1	1209.0	-1196.4	695.6	-701.4	632.7
4	24.7	24.1	2129.5	3655.3	2257.9	3499.3	2135.5	3266.8
5	-0.7	12.4	-483.3	372.1	-56.7	179.9	481.5	-15.3
6	-6.9	-30.2	603.3	-653.7	473.2	-534.7	413.6	-348.1
7	-24.1	3.1	-971.6	145.0	-903.9	195.4	20.5	376.3
8	9.0	-19.8	136.3	-182.5	-88.5	-210.8	-204.7	-236.8
9	7.0	12.6	-123.2	278.2	-154.0	129.6	-145.4	25.5
10	0.5	-19.2	39.0	-193.2	230.5	-1.6	348.4	-92.1

RUN 21 POINT 26
SWEPT/TAPERED TIP

V/OR =	0.375	ALFS,U =	-5.0	CLR/S =	0.07663	CP/S =	0.005788
MAT =	0.896	THETA =	12.0	CXR/S =	0.00547	RHO =	0.002171

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	924.	-7935.	1849.	79.	202.	-4625.	5809.	1761.
11.25	1876.	-8106.	2139.	815.	274.	-1678.	7924.	2819.
22.50	2184.	-7868.	2405.	2006.	424.	-300.	8404.	2014.
33.75	1521.	-7835.	2671.	2701.	519.	-2050.	6284.	-231.
45.00	617.	-7809.	2653.	2496.	482.	-5318.	2864.	-2859.
56.25	153.	-7382.	1956.	1280.	405.	-7100.	1763.	-2993.
67.50	146.	-6584.	539.	-499.	347.	-6280.	4160.	-838.
78.75	41.	-5745.	-547.	-1456.	295.	-3040.	7727.	1193
90.00	-588.	-5435.	-567.	-1463.	216.	1491.	11394.	4221.
101.25	-1269.	-5674.	-487.	-1949.	75.	5161.	15424.	8818.
112.50	-1358.	-5403.	-1117.	-2843.	-43.	7198.	18261.	11214.
123.75	-1307.	-4338.	-1878.	-3173.	-60.	7655.	18347.	10129.
135.00	-2018.	-3840.	-2275.	-3551.	-87.	5524.	16410.	8467.
146.25	-3222.	-4285.	-2345.	-4233.	-132.	2843.	14767.	7817.
157.50	-3599.	-4229.	-2268.	-4161.	-31.	4673.	16172.	8699.
168.75	-2473.	-3345.	-2594.	-3763.	111.	9666.	20083.	10859.
180.00	-758.	-3132.	-3083.	-4062.	47.	10446.	21207.	11215.
191.25	192.	-4298.	-2330.	-3995.	-94.	5554.	17068.	8611.
202.50	323.	-5929.	-429.	-2550.	-116.	-154.	11569.	5641.
213.75	528.	-7022.	1016.	-414.	-129.	-4714.	7074.	1920.
225.00	869.	-7508.	1902.	1979.	-200.	-8984.	2108.	-4120.
236.25	1194.	-8049.	3150.	4232.	-231.	-12364.	-2383.	-8805.
247.50	1345.	-8948.	4231.	5157.	-228.	-13846.	-3833.	-8962.
258.75	1812.	-9462.	4321.	4750.	-190.	-12531.	-2144.	-6703.
270.00	2369.	-9019.	3713.	4090.	-46.	-7951.	2003.	-3546.
281.25	2458.	-8270.	2870.	3250.	89.	-3105.	6760.	12.
292.50	1745.	-7917.	2236.	2222.	80.	-2370.	7851.	945.
303.75	511.	-7685.	2108.	1723.	33.	-5547.	4384.	-1743.
315.00	-294.	-7122.	1783.	1587.	27.	-8897.	968.	-4921.
326.25	-196.	-6449.	879.	1129.	24.	-10173.	462.	-6318.
337.50	140.	-6340.	503.	532.	63.	-9416.	1593.	-5220.
348.75	327.	-7074.	1153.	122.	149.	-7383.	3401.	-1674.

RUN 21 POINT 36
SWEPT/TAPERED TIP

V/OR = 0.376 ALFS,U = -10.0 CLR/S = 0.08127 CP/S = 0.009188
MAT = 0.896 THETA = 15.5 CXR/S = 0.01258 RHO = 0.002155

BLADE NORMAL BENDING MOMENT

	.4R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	644.6		-7055.7		1347.5		1020.5	
1	1127.9	-897.5	-1352.3	1070.3	1631.4	-1386.1	1949.0	-2046.2
2	-458.5	916.3	736.1	-632.3	-973.6	731.6	-1579.9	760.6
3	-11.2	374.6	-205.1	-513.4	202.1	728.4	209.4	900.9
4	231.6	5+0.3	120.5	-86.9	-358.4	-14.5	-637.7	-166.1
5	1.6	-196.3	-93.3	-50.4	-18.7	74.5	-285.4	102.9
6	36.6	108.8	86.0	20.5	-41.2	-34.4	56.1	-103.2
7	-245.2	-100.6	-236.1	-141.8	222.6	123.9	-13.9	0.8
8	-5.3	22.3	32.7	34.0	25.9	-6.3	52.8	31.0
9	-26.4	-16.1	-29.3	11.4	-1.9	75.1	-27.2	96.9
10	-15.0	14.3	-5.6	-28.4	17.1	-70.1	-2.3	-104.6

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	30.2		-2975.2		7017.3		728.9	
1	223.4	183.6	-4054.6	5488.2	-5124.8	5214.5	-4354.0	4376.9
2	51.5	119.0	1630.4	-2351.0	2172.3	-2474.3	2321.0	-1802.7
3	-156.9	32.3	-1646.3	1010.6	-1373.2	524.8	-1090.3	541.0
4	69.8	35.9	811.6	5368.7	1226.5	5045.2	1466.7	4303.0
5	-36.1	-14.3	-711.9	-46.7	-470.7	-107.9	-22.9	-128.5
6	15.5	-19.7	774.7	-4.0	651.7	24.3	372.6	68.9
7	-4.3	-11.2	-771.7	-269.0	-708.1	-248.9	-146.5	79.8
8	6.5	1.9	121.1	-6.1	23.8	-179.3	-22.0	-237.7
9	1.2	6.3	-118.7	19.9	-27.8	-151.1	8.1	-146.1
10	-3.1	-6.3	-68.3	19.2	-118.3	236.5	-37.6	272.1

RUN 21 POINT 36
SWEPT/TAPERED TIP

V/OR = 0.370 ALFS,U = -10.0 CLR/S = 0.08127 CP/S = 0.009188
MAT = 0.896 THETA = 15.5 CXR/S = 0.01298 RHO = 0.002155

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1281.	-8002.	2053.	741.	201.	-7039.	3269.	-776.
11.25	2088.	-8367.	2532.	1357.	286.	-2215.	7133.	2260.
22.50	2649.	-8341.	2796.	2321.	403.	825.	9241.	2879.
33.75	2409.	-8309.	2998.	2984.	519.	158.	8201.	1379.
45.00	1671.	-8220.	3055.	3058.	567.	-2990.	4916.	-1340.
56.25	1050.	-7797.	2558.	2321.	509.	-6015.	2061.	-3542.
67.50	730.	-7127.	1343.	769.	382.	-6689.	2612.	-2907.
78.75	432.	-6458.	224.	-512.	272.	-4141.	6224.	-42.
90.00	-76.	-6032.	-76.	-786.	194.	370.	10242.	2999.
101.25	-564.	-5965.	-117.	-910.	72.	4866.	14334.	6540.
112.50	-702.	-5851.	-443.	-1250.	-92.	8101.	18193.	9790.
123.75	-733.	-5345.	-664.	-1206.	-217.	8585.	18642.	9575.
135.00	-1198.	-4992.	-696.	-1266.	-283.	5324.	15121.	6638.
146.25	-2038.	-5200.	-847.	-1988.	-277.	887.	11786.	5008.
157.50	-2450.	-5248.	-1036.	-2481.	-144.	7.	11750.	5716.
168.75	-1768.	-4636.	-1405.	-2527.	54.	3713.	14893.	7840.
180.00	-413.	-4170.	-2018.	-2922.	146.	7567.	18678.	10435.
191.25	467.	-4697.	-1854.	-3068.	77.	6824.	18604.	10735.
202.50	404.	-5907.	-440.	-1950.	-83.	1627.	13355.	7201.
213.75	434.	-6932.	990.	-91.	-260.	-4340.	7061.	1992.
225.00	789.	-7429.	1800.	1882.	-368.	-8997.	2189.	-3379.
236.25	1229.	-7850.	2721.	3800.	-365.	-12711.	-2266.	-8245.
247.50	1586.	-8628.	3757.	4887.	-308.	-14863.	-4832.	-9842.
258.75	2104.	-9357.	4208.	4897.	-232.	-13616.	-3246.	-7389.
270.00	2692.	-9406.	4102.	4710.	-115.	-9069.	882.	-3964.
281.25	2877.	-8962.	3749.	4553.	-8.	-3920.	5020.	-1251.
292.50	2344.	-8602.	3315.	4086.	11.	-1463.	7366.	346.
303.75	1270.	-8359.	3064.	3604.	-25.	-3390.	5683.	-1058.
315.00	369.	-7933.	2768.	3169.	-48.	-8000.	1033.	-4958.
326.25	227.	-7335.	1988.	2346.	-37.	-11567.	-1968.	-7575.
337.50	849.	-7002.	1280.	1360.	21.	-12315.	-1737.	-7175.
348.75	831.	-7322.	1416.	766.	115.	-10722.	115.	-4565.

RUN 21 POINT 23
SWEPT/TAPERED TIP

V/QR = 0.377 ALFS,U = 0.0 CLR/S = 0.09473 CP/S = 0.004593
MAT = 0.895 THETA = 11.5 CXR/S = 0.00301 RHO = 0.002179

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	-60.8		-1279.3		413.1		-573.3	
1	1277.1	-1294.7	-1518.8	1505.5	1744.0	-1872.2	2068.9	-2621.6
2	-623.5	1235.3	1135.7	-1169.7	-1415.4	1517.0	-2037.1	1844.2
3	20.7	386.8	-317.2	-576.1	362.9	834.5	286.7	1129.4
4	492.3	631.7	83.7	-139.3	-333.7	55.3	-742.1	-317.8
5	-91.2	190.1	-188.6	23.1	-3.7	-76.6	-370.4	-21.6
6	29.9	342.6	-74.1	25.0	82.9	-225.0	-113.8	-356.5
7	-372.8	177.2	-444.9	42.8	376.8	-117.7	-44.3	-98.1
8	30.8	63.9	39.5	35.2	5.6	-102.8	57.6	-11.0
9	-31.6	72.7	-11.9	123.7	77.9	-25.9	80.0	101.1
10	-23.4	5.0	-39.4	-18.5	96.0	-48.1	44.0	-44.9

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
HARMONIC						
0	99.2	-1812.0	8790.8		3243.6	
1	173.9	254.0	-5326.7	6462.7	-5900.8	5934.4
2	110.9	92.2	4453.4	-4637.2	4544.9	-5076.5
3	-59.2	56.4	-3330.3	1507.5	-2815.0	697.1
4	94.3	5.7	3519.5	5974.2	3564.9	5613.1
5	11.2	-48.3	-236.2	-515.7	144.5	-287.7
6	-44.1	-98.7	-24.7	-1267.1	-99.9	-856.9
7	-55.9	-62.5	-1040.7	257.6	-948.8	308.6
8	-17.6	-27.3	-145.0	-170.3	-342.3	-172.7
9	5.1	-2.5	-325.7	495.1	-608.5	268.0
10	4.6	20.7	-36.4	146.5	-116.1	401.8

RUN 21 POINT 23
SWEPT/TAPERED TIP

V/OR =	0.377	ALFS,U =	0.0	CLR/S =	0.09473	CP/S =	0.004593
MAT =	0.395	THETA =	11.5	CXR/S =	0.00301	RHO =	0.002179

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	647.	-7615.	1406.	-1344.	323.	-4305.	6214.	4620.
11.25	2556.	-7511.	1091.	-803.	282.	183.	10707.	7193.
22.50	2883.	-7417.	1563.	818.	472.	1677.	11152.	5723.
33.75	1523.	-7762.	2867.	2703.	687.	-876.	6755.	1831.
45.00	194.	-7878.	3132.	3030.	616.	-4742.	2544.	-1509.
56.25	-156.	-7439.	2005.	1412.	368.	-7986.	789.	-3123.
67.50	53.	-6569.	477.	-697.	313.	-8397.	2109.	-1660.
78.75	86.	-5515.	-820.	-2050.	393.	-4339.	6782.	2545.
90.00	-520.	-4993.	-1370.	-2724.	314.	1847.	12593.	7529.
101.25	-1474.	-5125.	-1289.	-3307.	148.	6758.	17368.	12303.
112.50	-1988.	-4780.	-1617.	-3842.	60.	9422.	20151.	14751.
123.75	-2182.	-3752.	-2445.	-4115.	-12.	9181.	19648.	13050.
135.00	-2935.	-3373.	-2857.	-4376.	-49.	6126.	16951.	10245.
146.25	-3532.	-3707.	-2862.	-4778.	36.	4346.	16123.	9760.
157.50	-3797.	-3385.	-3106.	-4974.	138.	7971.	19176.	11211.
168.75	-2358.	-2545.	-3575.	-5076.	171.	14223.	24069.	13923.
180.00	-957.	-2653.	-3709.	-5386.	172.	16215.	26471.	16090.
191.25	-484.	-3938.	-2833.	-5080.	97.	11896.	23193.	14210.
202.50	-470.	-5425.	-997.	-3330.	-53.	4765.	16114.	9033.
213.75	-135.	-6486.	668.	-780.	-154.	-3260.	8485.	2866.
225.00	557.	-7195.	1760.	1734.	-218.	-12658.	-413.	-5534.
236.25	1165.	-7999.	3080.	3900.	-311.	-20502.	-9013.	-13219.
247.50	1616.	-9049.	4377.	5021.	-342.	-21827.	-10762.	-13380.
258.75	2107.	-9683.	4584.	4880.	-256.	-16274.	-4888.	-7930.
270.00	2678.	-9364.	4013.	4423.	-105.	-7507.	2775.	-2718.
281.25	2593.	-8701.	3485.	3855.	43.	86.	9164.	2625.
292.50	1735.	-8410.	2902.	2560.	10.	1365.	11568.	5792.
303.75	689.	-8030.	2074.	1143.	-266.	-4669.	6758.	1134.
315.00	95.	-6848.	974.	517.	-399.	-10632.	452.	-6038.
326.25	-243.	-5532.	-194.	126.	-88.	-10639.	614.	-6403.
337.50	-765.	-5514.	-340.	-602.	336.	-8312.	3556.	-2258.
348.75	-787.	-6742.	775.	-1203.	449.	-7120.	4098.	1130.

RUN 48 POINT 10
SWEPT TIP

V/OR = 0.200 ALFS,U = -2.5 CLR/S = 0.07249 CP/S = 0.002817
MAT = 0.717 THETA = 8.0 CXR/S = 0.00193 RHO = 0.002259

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	344.2		-6787.9		873.1		10771.2	
1	305.2	-723.7	-219.5	1019.1	183.5	-1208.1	440.5	-1525.7
2	-157.4	164.7	482.8	-142.7	-724.7	125.8	-1497.9	-46.6
3	-140.3	206.4	269.8	-510.8	-348.3	773.1	-330.0	1268.7
4	-27[illegible].6	-75.8	116.1	-73.6	-31.5	93.3	108.2	139.0
5	12.2	104.5	-38.3	-62.6	44.8	-28.6	-50.3	-196.2
6	-61.4	144.5	-70.1	39.2	139.0	-133.6	280.3	-101.5
7	72.0	149.9	72.1	167.1	-95.0	-195.3	-67.1	-138.7
8	-3.2	155.5	-37.0	216.4	-76.9	-197.1	-226.2	53.1
9	37.6	3.3	17.1	26.8	16.2	-18.9	84.2	248.8
10	27.7	-17.2	93.2	-10.3	165.2	58.2	245.1	170.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	48.0		-4444.9		4158.7		2609.2	
1	78.5	196.6	-902.5	4676.2	-815.3	4237.9	-829.5	3296.3
2	52.5	24.7	2006.8	-630.9	2326.2	-646.2	2815.4	-472.5
3	11.6	-24.8	-977.1	-705.8	-670.6	-1289.3	-612.7	-1617.2
4	-30.7	-55.5	-797.9	1619.8	-856.5	1507.5	-965.6	1263.1
5	-19.8	-14.8	-2229.6	734.3	-2002.3	824.3	-1555.7	1059.9
6	-21.2	-13.3	-124.3	311.8	-216.0	468.5	-146.0	318.5
7	10.6	-1.8	91.6	586.9	70.8	655.6	-108.9	252.6
8	3.0	7.4	-37.9	371.4	144.1	328.3	207.9	-161.2
9	4.0	3.2	63.3	-30.7	4.0	-40.0	23.9	-137.2
10	7.4	-0.1	169.8	-121.0	-345.5	-266.8	-446.0	-203.3

RUN 48 POINT 10
SWEPT TIP

V/OR = 0.200 ALFS,U = -2.5 CLR/S = 0.07249 CP/S = 0.002817
MAT = 0.717 THETA = 8.0 CXR/S = 0.00193 RHO = 0.002259

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.4R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	166.	-6102.	145.	9758.	144.	-7183.	1798.	992.
11.25	707.	-6140.	-128.	10127.	120.	-3070.	6028.	3826.
22.50	678.	-6814.	519.	10023.	152.	14.	8773.	6677.
33.75	474.	-7280.	1548.	10895.	257.	475.	7717.	6051.
45.00	512.	-7091.	1271.	11486.	326.	-1158.	6154.	3837.
56.25	601.	-6509.	446.	10851.	305.	-2966.	5257.	2133.
67.50	275.	-6176.	437.	10306.	249.	-4236.	3693.	1226.
78.75	-395.	-6214.	214.	9807.	209.	-4375.	3949.	2563.
90.00	-791.	-5888.	-648.	9023.	193.	-1834.	7337.	5212.
101.25	-780.	-5261.	-756.	9266.	179.	1619.	9893.	6145.
112.50	-770.	-5394.	-210.	10194.	131.	2408.	9724.	5995.
123.75	-701.	-6068.	-38.	10215.	89.	-197.	8342.	5750.
135.00	-202.	-6182.	59.	9850.	108.	-2508.	6185.	4052.
146.25	185.	-6005.	255.	9816.	137.	-2984.	4831.	2845.
157.50	123.	-6209.	242.	9628.	105.	-1950.	6257.	4735.
168.75	-250.	-6359.	390.	9532.	35.	-112.	8275.	6937.
180.00	-467.	-6304.	543.	9603.	-26.	726.	8624.	7158.
191.25	-195.	-6243.	165.	9222.	-61.	-561.	8142.	6774.
202.50	152.	-6308.	19.	8938.	-63.	-3095.	6481.	5540.
213.75	430.	-6607.	552.	9234.	-62.	-5921.	3480.	3280.
225.00	718.	-7188.	1019.	9839.	-87.	-8339.	1401.	1740.
236.25	1051.	-7646.	1615.	11520.	-110.	-9735.	-93.	-219.
247.50	1209.	-7952.	2638.	13621.	-126.	-10872.	-2637.	-3699.
258.75	1217.	-8360.	3066.	14418.	-173.	-12290.	-4150.	-5755.
270.00	1314.	-8542.	3019.	14229.	-230.	-12832.	-3974.	-5956.
281.25	1287.	-8522.	3598.	15381.	-259.	-12156.	-4274.	-6112.
292.50	1027.	-8781.	3845.	15391.	-262.	-10476.	-2890.	-3555.
303.75	1102.	-8599.	2571.	12615.	-191.	-6784.	2470.	2303.
315.00	1479.	-7303.	961.	10573.	-20.	-2734.	6897.	5501.
326.25	1141.	-6245.	213.	10410.	133.	-2934.	6112.	4192.
337.50	87.	-6372.	110.	9678.	174.	-7050.	2715.	2290.
348.75	-368.	-6508.	257.	9028.	162.	-9326.	562.	1033.

RUN 48 POINT 7
SWEPT TIP

V/CR = 0.199 ALFS,U = -5.0 CLR/S = 0.11791 CP/S = 0.006936
MAT = 0.726 THETA = 13.0 CXR/S = 0.00814 RHO = 0.002255

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R COS	.3R SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	963.8		-7271.2		1497.8		9947.6	
1	437.4	-687.7	-184.0	1096.5	-20.0	-1333.6	464.0	-1825.9
2	77.4	103.1	295.7	76.6	-487.0	-153.7	-1605.5	-646.8
3	-536.0	250.2	602.6	-382.1	-765.9	628.8	-1071.5	1372.7
4	-223.6	-253.3	192.3	21.7	-101.9	84.1	246.0	254.5
5	-43.0	165.6	-96.5	-53.6	89.8	-21.9	90.1	-310.2
6	-190.1	-88.4	-140.4	-102.8	283.8	62.9	249.1	161.3
7	95.7	69.6	137.2	68.1	-108.6	-56.4	162.3	-225.8
8	-109.9	21.6	-210.8	17.4	8.5	-80.4	-526.4	-107.9
9	-4.8	7.4	-33.2	-10.6	44.8	-58.1	-4.8	217.2
10	12.7	11.6	34.6	74.9	138.5	153.4	347.1	-0.8

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

HARMONIC	PITCH LINK LOAD COS	PITCH LINK LOAD SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	-168.6		-5164.8		2959.8		1893.1	
1	111.6	111.7	-196.6	5530.0	131.7	4979.0	17.8	3847.5
2	204.3	-124.7	1965.6	-20.5	2179.4	-10.8	3140.9	485.0
3	179.0	101.1	-992.4	-1106.3	-449.8	-1071.5	-581.9	-2229.4
4	-64.0	118.9	-647.7	2135.0	-798.9	1803.2	-1026.0	1451.0
5	-173.5	23.3	-1734.4	-1330.2	-1415.3	-1067.4	-1141.4	-575.1
6	-133.3	-185.1	-717.1	-355.7	-914.8	-324.0	-555.7	-232.9
7	76.9	-92.3	37.3	382.3	-36.4	324.6	-342.8	248.4
8	134.2	58.8	-395.4	123.7	40.2	208.8	446.0	67.6
9	-24.5	136.1	-148.7	18.4	-238.7	150.2	-50.5	99.4
10	-134.0	40.6	163.2	87.2	-268.4	-378.6	-414.6	-293.0

RUN 48 POINT 7
SWEPT TIP

V/OR = 0.199 ALFS,U = -5.0 CLR/S = 0.11791 CP/S = 0.006936
MAT = 0.720 THETA = 13.0 CXR/S = 0.00814 RHO = 0.002259

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	+76.	-6629.	530.	8238.	-3.	-7831.	1189.	1385.
11.25	803.	-6597.	474.	8302.	254.	-4960.	3621.	3026.
22.50	1273.	-6808.	522.	8725.	167.	-971.	7319.	5723.
33.75	1545.	-7104.	1261.	9521.	231.	1351.	8278.	6519.
45.00	1593.	-7350.	1480.	9669.	542.	1032.	7921.	6189.
56.25	1436.	-7289.	1127.	9832.	-241.	-985.	6817.	4614.
67.50	1006.	-6904.	1220.	10099.	-1470.	-3354.	3843.	1880.
78.75	365.	-6622.	808.	8954.	-1021.	-4576.	2980.	1830.
90.00	-104.	-6183.	-517.	7611.	232.	-2677.	6614.	4495.
101.25	-373.	-5318.	-809.	8126.	279.	1425.	9453.	5289.
112.50	-693.	-5209.	119.	8958.	-120.	3057.	9860.	4731.
123.75	-911.	-6324.	597.	8862.	58.	259.	7619.	5002.
135.00	-373.	-7023.	769.	9105.	108.	-3234.	5617.	3433.
146.25	796.	-6716.	1171.	9536.	-55.	-4844.	2682.	483.
157.50	1524.	-6721.	1273.	9335.	41.	-4996.	2160.	862.
168.75	1232.	-7272.	1507.	9180.	-26.	-3825.	3943.	3755.
180.00	581.	-7471.	2100.	9078.	-330.	-1762.	5206.	5583.
191.25	409.	-7226.	1829.	9845.	-384.	-572.	6362.	6591.
202.50	726.	-6915.	994.	8932.	-357.	-1390.	6944.	6658.
213.75	572.	-6909.	1068.	8236.	-383.	-4694.	4284.	4599.
225.00	966.	-7489.	1610.	7063.	-281.	-10012.	-454.	1392.
236.25	1333.	-8000.	1924.	8870.	-340.	-14164.	-4245.	-2659.
247.50	1304.	-7901.	2531.	12769.	-542.	-14673.	-6303.	-6931.
258.75	1499.	-8081.	3156.	13989.	-429.	-13406.	-5956.	-7978.
270.00	1565.	-8876.	3457.	13742.	-293.	-12562.	-4204.	-6210.
281.25	1736.	-9268.	4125.	15502.	-433.	-11851.	-3921.	-5862.
292.50	1957.	-9223.	4659.	16299.	-426.	-11184.	-4231.	-5519.
303.75	2062.	-9300.	3913.	13627.	-299.	-10199.	-1817.	-1811.
315.00	2128.	-8834.	2574.	10863.	-251.	-7436.	2112.	2448.
326.25	2042.	-7615.	1498.	9706.	42.	-4378.	4580.	4204.
337.50	1498.	-6803.	597.	8675.	285.	-4594.	4767.	4173.
348.75	754.	-6697.	316.	8076.	50.	-7217.	2718.	2689.

RUN 49 POINT 5
SWEPT TIP

V/OR = 0.300 ALFS,J = -5.0 CLR/S = 0.07459 CP/S = 0.004353
MAT = 0.781 THETA = 10.0 CXR/S = 0.00353 RHO = 0.002277

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	191.7		-6654.7		650.6		5354.4	
1	82[illegible]	-1081.5	-1057.7	1903.6	1333.2	-1633.1	1430.7	-2212.3
2	-152.7	779.6	443.4	-583.2	-701.4	615.2	-1048.0	747.1
3	267.6	111.0	-253.4	-395.6	277.2	576.0	171.7	744.2
4	33.4	183.9	16.2	-5.6	-140.3	12.4	-214.1	75.5
5	144.0	-55.4	12.8	-47.8	-86.5	32.1	-275.7	40.4
6	-3.0	49.1	5.4	4.5	-59.3	-10.5	28.9	-77.2
7	-128.9	-139.0	-98.8	-222.0	103.4	188.2	4.8	-58.6
8	17.2	-42.0	34.2	-65.5	-24.7	82.2	17.9	2.9
9	-42.2	-0.4	-49.2	-31.4	-6.0	6.9	-61.8	-36.4
10	-18.9	4.1	-37.2	-20.5	-51.5	-22.0	-85.7	-61.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	65.3	-4273.7	4842.0		3044.4	
1	135.8	161.1	-3319.9	5433.7	-4119.1	5047.0	-3481.2	4101.3
2	38.6	45.9	1442.0	-1390.3	1864.4	-1393.0	1835.6	-1301.6
3	-39.1	10.6	-1196.9	111.9	-1022.7	-343.2	-669.5	-265.0
4	14.8	30.0	-53.9	959.3	271.6	824.1	363.9	574.7
5	-4.9	12.8	519.3	-885.1	568.9	-738.0	702.0	-610.9
6	-0.8	-6.6	-24.6	-510.1	155.9	-437.3	-44.1	-254.2
7	-1.7	-15.4	-359.8	-293.0	-342.6	-248.2	13.9	235.2
8	-0.1	-4.8	182.4	-201.6	211.2	-287.4	94.3	-121.0
9	3.2	-4.4	-224.9	-25.0	-169.8	22.5	-136.6	35.7
10	4.2	-3.7	-115.5	42.4	59.9	209.5	91.3	352.6

RUN 49 POINT 5
SWEPT TIP

V/CR =	0.350	ALFS,D =	-3.0	CLR/S =	0.07459	CP/S = 0.004353
MAT =	0.781	THETA =	10.0	CXR/S =	0.00553	RHO = 0.002277

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1134.	-7639.	1295.	5323.	215.	-7426.	2340.	1814.
11.25	1278.	-8012.	1928.	5821.	259.	-7347.	1707.	1683.
22.50	1401.	-7645.	2000.	6644.	341.	-5673.	2058.	649.
33.75	1120.	-7234.	1576.	6770.	393.	-3734.	3749.	1040.
45.00	532.	-7052.	1348.	6343.	348.	-2420.	5107.	2512.
56.25	20.	-6778.	1039.	5547.	277.	-2139.	5369.	3285.
67.50	-215.	-6230.	87.	4270.	254.	-2301.	6134.	4052.
78.75	-330.	-5518.	-857.	3370.	243.	-1732.	7529.	4945.
90.00	-692.	-5074.	-1061.	3369.	212.	-742.	8168.	5176.
101.25	-1283.	-5164.	-940.	3389.	162.	-13.	8759.	6072.
112.50	-1548.	-5239.	-1049.	3075.	87.	1288.	10449.	7936.
123.75	-1339.	-4823.	-1355.	2905.	19.	3195.	12137.	8850.
135.00	-1279.	-4459.	-1613.	2728.	-6.	3819.	12535.	9045.
146.25	-1704.	-4651.	-1596.	2403.	-7.	2639.	11822.	9538.
157.50	-2068.	-4951.	-1473.	2367.	-2.	1523.	11193.	9454.
168.75	-1782.	-4891.	-1688.	2581.	17.	1606.	11797.	9030.
180.00	-997.	-4746.	-1948.	2784.	29.	1739.	12470.	8957.
191.25	-246.	-5042.	-1534.	3165.	8.	483.	10583.	7965.
202.50	297.	-5670.	-574.	3813.	-39.	-1830.	8298.	6231.
213.75	613.	-6791.	416.	4815.	-100.	-4252.	6141.	4764.
225.00	1288.	-7450.	1392.	6355.	-149.	-7330.	2964.	1648.
236.25	1518.	-8014.	2291.	7864.	-165.	-11239.	-1458.	-2901.
247.50	1548.	-8606.	2961.	8688.	-172.	-13516.	-3736.	-4529.
258.75	1550.	-8962.	3491.	9087.	-176.	-12508.	-3057.	-3014.
270.00	1526.	-8958.	3650.	9157.	-136.	-10152.	-1678.	-1936.
281.25	1464.	-8633.	3116.	8663.	-61.	-8463.	-132.	-1371.
292.50	1283.	-8024.	2373.	8116.	-6.	-7771.	1014.	-717.
303.75	766.	-7570.	2068.	7735.	11.	-8630.	53.	-1396.
315.00	161.	-7586.	1933.	6919.	10.	-10218.	-1480.	-2105.
326.25	150.	-7467.	1553.	6007.	11.	-9724.	-613.	-883.
337.50	698.	-6545.	1077.	5719.	62.	-7370.	1637.	525.
348.75	1071.	-6924.	896.	5548.	154.	-6521.	2686.	1105.

RUN 43 POINT 11
SWEPT TIP

V/CK = 0.295 ALFS,U = -10.3 CLR/S = 0.07207 CP/S = 0.006431
MAT = 0.730 DELTA = 12.0 CXR/S = 0.01262 RHO = 0.002265

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	522.6		-7033.1		1123.9		10443.6	
1	837.6	-781.5	-915.8	1195.4	1125.3	-1416.4	1146.6	-1914.0
2	-53.5	563.3	321.4	-389.3	-541.4	358.9	-946.0	338.5
3	79.1	243.6	13.4	-395.1	-9.3	589.8	85.9	709.6
4	73.5	192.1	43.6	-3.0	-143.9	-25.4	-312.6	61.1
5	86.2	38.2	1.2	-20.1	-53.2	-25.2	-33.1	-172.4
6	2.8	39.1	30.8	27.5	-51.5	-27.0	63.7	28.1
7	-127.5	-43.9	-113.1	-71.6	120.5	49.3	51.1	-25.4
8	-30.4	-6.1	-18.6	-11.8	19.6	9.6	50.2	36.2
9	-1.4	15.6	-7.6	-6.4	-33.7	-22.2	-21.7	-27.3
10	-6.4	0.4	3.5	-7.3	-15.6	-15.6	16.0	-41.5

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	24.3		-4903.0		4143.3		2230.7	
1	170.7	184.4	-2030.4	5101.4	-2924.3	4747.9	-2559.3	3891.0
2	54.8	55.0	900.5	-1012.2	1317.2	-917.0	1524.1	-731.1
3	-45.0	35.3	-857.4	-44.2	-634.6	-523.7	-479.1	-376.6
4	9.3	13.8	463.2	1680.3	641.6	1599.3	717.1	1240.8
5	-27.5	13.3	203.6	-1852.2	316.5	-1594.5	378.5	-1238.5
6	4.4	3.1	-83.5	-306.8	-36.3	-277.7	-186.0	-279.8
7	-4.3	-5.4	-310.3	-109.3	-306.5	-71.6	57.3	39.9
8	-6.5	1.1	-133.0	-32.3	-101.7	-54.5	-113.4	-12.9
9	-0.3	-7.7	+8.9	7.9	137.3	74.7	108.7	63.8
10	1.2	-0.0	-0.6	36.0	38.6	124.1	-8.0	183.3

RUN 45 POINT 11
SWEPT TIP

V/CR = 0.299 ALFS,U = -10.0 CLR/S = 0.07207 CP/S = 0.006431
MAT = 0.780 THETA = 12.0 CXR/S = 0.01202 RHO = 0.002269

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1379.	-7702.	1541.	10544.	187.	-6682.	2591.	1671.
11.25	1796.	-7848.	1751.	10581.	286.	-6595.	2375.	1487.
22.50	1953.	-7756.	1972.	10860.	386.	-5270.	2736.	1097.
33.75	1593.	-7687.	2040.	11155.	424.	-3426.	4099.	1810.
45.00	962.	-7617.	1942.	11139.	379.	-2321.	5140.	2889.
56.25	505.	-7228.	1504.	10675.	310.	-2247.	5244.	2960.
67.50	324.	-6553.	609.	9692.	254.	-2492.	5670.	2984.
78.75	126.	-5988.	-227.	8640.	193.	-2531.	6526.	3718.
90.00	-301.	-5729.	-495.	8250.	133.	-1949.	7187.	4557.
101.25	-748.	-5622.	498.	8411.	88.	-159.	8703.	5920.
112.50	-696.	-5476.	-647.	8601.	33.	2160.	11085.	7656.
123.75	-821.	-5308.	-751.	8840.	-32.	2930.	11811.	7859.
135.00	-856.	-5320.	-601.	9012.	-62.	1320.	10095.	6667.
146.25	-1035.	-5569.	-408.	8649.	-52.	-1165.	8048.	6061.
157.50	-1063.	-5769.	-421.	8005.	-34.	-2627.	7222.	5996.
168.75	-789.	-5701.	-621.	7804.	-12.	-2293.	7821.	5912.
180.00	-369.	-5604.	-753.	8086.	0.	-771.	9414.	6659.
191.25	2.	-5831.	-556.	8546.	-50.	81.	10363.	7660.
202.50	296.	-6374.	6.	9176.	-157.	-1493.	8947.	6814.
213.75	589.	-6960.	704.	10012.	-237.	-5415.	5221.	3636.
225.00	925.	-7421.	1374.	11012.	-247.	-9956.	629.	-624.
236.25	1217.	-7849.	2046.	12088.	-230.	-13161.	-2959.	-4066.
247.50	1342.	-8378.	2813.	13001.	-220.	-13778.	-4103.	-4896.
258.75	1382.	-8865.	3512.	13592.	-209.	-11807.	-2847.	-3389.
270.00	1555.	-9060.	3711.	13845.	-187.	-8770.	-460.	-1549.
281.25	1767.	-8765.	3358.	13670.	-156.	-7006.	1253.	-658.
292.50	1628.	-8464.	2984.	13181.	-108.	-7876.	610.	-1227.
303.75	1090.	-8261.	2799.	12680.	-51.	-10129.	-1630.	-2850.
315.00	644.	-8021.	2436.	12063.	-13.	-10920.	-2265.	-3331.
326.25	627.	-7647.	1871.	11220.	7.	-9231.	-316.	-1622.
337.50	840.	-7347.	1318.	10632.	43.	-7025.	1795.	329.
348.75	1059.	-7401.	1458.	10536.	108.	-6294.	2583.	1252.

RUN 49 POINT 21
SWEPT TIP

V/OR = 0.331 ALFS,U = 0.0 CLR/S = 0.11589 CP/S = 0.004656
MA = 0.778 THETA = 12.0 CXR/S = -0.00010 RHO = 0.002252

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	497.5		-6654.8		677.4		13180.9	
1	1091.6	-1135.5	-1357.5	1596.7	1584.8	-1907.9	996.3	-3979.0
2	-269.4	873.4	728.6	-535.0	-1095.1	591.0	-1783.3	705.8
3	244.5	72.0	-133.9	-462.9	194.0	669.2	54.5	1177.2
4	204.6	2.2	-27.4	74.7	-241.9	96.6	-352.8	608.9
5	197.4	-179.0	-116.3	-10.7	-51.0	91.8	-543.0	142.9
6	166.6	25.3	22.4	-13.8	-131.0	86.3	37.2	111.9
7	-188.2	-292.2	-213.0	-409.6	125.5	395.0	-48.0	-164.7
8	181.6	-132.2	271.4	-179.1	-187.9	224.5	79.3	-266.3
9	7.8	-68.1	42.5	-132.3	-31.7	125.9	207.3	65.2
10	8.5	-2.6	-35.9	-106.7	-199.8	-81.2	-228.2	-252.0

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	43.3		-3904.7		5668.8		3806.5	
1	172.0	277.3	-5203.9	6756.6	-5756.7	6096.5	-4393.8	4749.5
2	112.2	160.7	3155.1	-1609.4	3663.3	-1606.3	3619.0	-1542.7
3	-34.3	4.3	-1542.4	214.0	-1220.0	-401.5	-639.7	-247.1
4	5.0	12.0	155.8	308.3	810.4	2179.8	1129.2	1143.3
5	-24.1	14.4	-1901.8	794.5	-1460.3	566.3	-708.5	257.8
6	-44.9	-15.8	-30.4	-325.6	356.0	-502.3	162.7	-360.6
7	-32.7	-22.5	-584.2	-539.1	-304.5	-736.5	129.4	121.3
8	11.5	9.9	615.9	-571.2	438.6	-625.0	-256.8	-405.8
9	10.7	6.1	-100.8	-309.8	-173.6	-369.4	-364.7	-62.3
10	2.4	-19.7	-12.5	-298.4	518.8	66.0	484.3	333.5

RUN 49 POINT 21
SWEPT TIP

V/CR = 0.301 ALFS,U = 0.0 CLR/S = 0.11589 CP/S = 0.004656
MAT = 0.778 THETA = 12.0 CXR/S = -0.00010 RHO = 0.002252

PSI	NORMAL BENDING MOMENT .3R	.5R	.6R	.7R	PITCH L. LOAD	EDGEWISE BENDING MOMENT .5R	.6R	.7R
0.00	[illegible]3.	-7524.	643.	11600.	221.	-9354.	2541.	2968.
11.25	1382.	-8506.	2349.	12260.	327.	-6892.	2118.	3536.
22.50	1215.	-7695.	2505.	13952.	514.	-1054.	5404.	3809.
33.75	1474.	-6583.	1177.	14452.	604.	1674.	8677.	3779.
45.00	1125.	-6847.	1110.	13198.	503.	-2156.	5632.	2123.
56.25	511.	-7403.	1586.	11274.	358.	-6983.	1286.	837.
67.50	+93.	-6830.	384.	9750.	290.	-7456.	2529.	2135.
78.75	589.	-5518.	-1044.	9654.	303.	-3647	6498.	3786.
90.00	-125.	-4800.	-1081.	10098.	306.	142	9811.	5484.
101.25	-1249.	-5120.	-930.	9755.	178.	4387.	13029.	8974.
112.50	-1663.	-5271.	-1184.	9918.	-1.	+999.	14448.	10895.
123.75	-1302.	-4424.	-1437.	10893.	-36.	5213.	13443.	9177.
135.00	-1229.	-3854.	-1909.	10189.	15.	4466.	12735.	8461.
146.25	-1941.	-4475.	-2083.	8663.	-2.	2557.	12665.	10396.
157.50	-2450.	-4973.	-1703.	9217.	-8.	3318.	13689.	12317.
168.75	-1757.	-4423.	-2134.	10309.	42.	7455.	17715.	14238.
180.00	-503.	-3868.	-3000.	10276.	39.	9312.	20371.	14922.
191.25	59.	-4336.	-2260.	11120.	-14.	5847.	16407.	11690.
202.50	66.	-5585.	-590.	12730.	-61.	238.	10284.	7644.
213.75	513.	-6672.	330.	13359.	-141.	-4355.	6717.	5200.
225.00	1395.	-7122.	1200.	14712.	-210.	-7897.	2886.	1020.
236.25	1986.	-7679.	2477.	17459.	-235.	-11388.	-1565.	-3443.
247.50	2038.	-8847.	3306.	19000.	-322.	-14440.	-3447.	-3662.
258.75	2126.	-9602.	3903.	19273.	-406.	-15261.	-4127.	-3054.
270.00	2201.	-9452.	4428.	19665.	-325.	-13911.	-5052.	-4658.
281.25	2024.	-9239.	4037.	19246.	-231.	-12295.	-3721.	-4168.
292.50	1654.	-8855.	3116.	18242.	-279.	-10230.	-496.	-1522.
303.75	1392.	-7935.	2698.	17805.	-275.	-7797.	1010.	-1267.
315.00	367.	-7601.	2525.	16353.	-108.	-8190.	-65.	-1922.
326.25	208.	-7912.	2039.	13538.	44.	-11040.	-1468.	-615.
337.50	1174.	-7353.	1087.	12003.	118.	-11540.	-570.	890.
348.75	2300.	-6649.	128.	11853.	174.	-9956.	2016.	1838.

RUN 49 POINT 12
SWEPT TIP

V/[illegible] = 0.3[illegible] ALFS,U = -10.0 CLR/S = 0.09024 CP/S = 0.008498
MAT = 0.781 THETA = 14.0 CXR/S = 0.01588 RHO = 0.002269

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	857.4		-7253.2		1375.3		10496.0	
1	991.8	-820.0	-1040.4	1250.7	1296.2	-1457.4	1068.7	-2439.6
2	-54.0	643.7	344.5	-355.4	-613.5	250.5	-1155.7	-92.9
3	-21.3	341.5	111.4	-445.5	-132.2	664.3	-156.3	718.0
4	141.8	138.6	35.1	22.0	-234.8	-19.6	-481.5	89.1
5	-83.9	-55.1	21.2	-30.8	65.7	22.7	267.2	-91.9
6	-4.6	23.6	37.1	27.0	-67.1	-5.3	213.5	88.4
7	-42.3	-52.2	-68.3	-51.5	80.1	35.3	80.3	-41.1
8	-39.3	-11.6	-21.7	-8.8	42.5	31.4	135.6	46.9
9	-2.8	2.7	-6.1	-16.5	-24.4	-17.4	-54.9	22.0
10	-14.5	-3.5	-11.2	-20.8	3.9	-14.2	-22.2	-24.0

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	1.5		-5138.2		3735.8		2024.1	
1	203.6	226.9	-2820.0	5736.8	-3835.2	5119.9	-3318.1	4210.2
2	72.5	88.0	942.4	-896.0	1517.4	-620.4	1900.0	-380.0
3	-67.1	49.3	-896.4	-62.4	-647.2	-639.3	-541.5	-319.0
4	32.1	5.2	18.4	2340.6	440.5	2127.7	731.6	1442.1
5	-27.5	-2.0	1233.2	-1869.0	928.9	-1645.7	745.2	-1275.2
6	3.3	-0.6	18.8	-247.0	118.4	-263.3	-130.7	-321.3
7	1.0	-4.3	-264.9	-166.9	-261.5	-132.3	31.1	-39.8
8	1.5	-0.6	-169.9	-35.7	-202.7	-121.4	-193.1	-106.0
9	3.1	-7.9	42.4	-20.4	120.5	58.3	125.4	74.0
10	6.9	1.9	-109.0	-35.3	-115.2	36.6	-153.4	120.4

RUN 49 POINT 12
SWEPT TIP

V/QR = 0.300 ALFS,U = -10.0 CLR/S = 0.09024 CP/S = 0.008498
MAT = 0.781 THETA = 14.0 CXR/S = 0.01588 RHO = 0.002269

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1594.	-7948.	1792.	10330.	230.	-7143.	1800.	1221.
11.25	2017.	-8036.	2050.	10174.	314.	-6729.	1836.	1197.
22.50	2421.	-8034.	2275.	9878.	411.	-5541.	2273.	1015.
33.75	2314.	-8064.	2378.	9961.	490.	-4229.	3155.	1482.
45.00	1799.	-7983.	2283.	10452.	469.	-2963.	4249.	2515.
56.25	1255.	-7513.	1850.	10439.	389.	-2020.	5026.	2863.
67.50	777.	-6844.	1022.	9454.	319.	-1945.	5549.	2903.
78.75	306.	-6292.	169.	8383.	229.	-2317.	6113.	3578.
90.00	-168.	-5906.	-292.	7927.	125.	-2065.	6727.	4315.
101.25	-573.	-5646.	-508.	7809.	54.	-420.	8256.	5336.
112.50	-772.	-5459.	-699.	8070.	-17.	2356.	11021.	7232.
123.75	-803.	-5333.	-618.	8936.	-107.	4206.	12515.	8154.
135.00	-896.	-5413.	-236.	9557.	-140.	3185.	10912.	7151.
146.25	-983.	-5706.	29.	9086.	-102.	246.	8338.	6442.
157.50	-820.	-5928.	-193.	8180.	-59.	-2226.	7351.	6698.
168.75	-380.	-5933.	-577.	7838.	-18.	-2989.	7680.	6649.
180.00	103.	-5883.	-779.	8040.	5.	-1732.	9189.	7136.
191.25	440.	-5988.	-629.	8450.	-58.	349.	11113.	8580.
202.50	555.	-6369.	-60.	9144.	-191.	179.	10699.	8230.
213.75	596.	-6936.	753.	10203.	-300.	-3646.	6703.	4647.
225.00	855.	-7451.	1505.	11362.	-347.	-9059.	1295.	-193.
236.25	1334.	-7934.	2140.	12300.	-341.	-13589.	-3132.	-4062.
247.50	1745.	-8549.	2828.	13022.	-296.	-15700.	-5370.	-5604.
258.75	1990.	-9106.	3558.	13711.	-249.	-14219.	-4661.	-4512.
270.00	2155.	-9307.	4011.	14300.	-220.	-10218.	-1821.	-2421.
281.25	2180.	-9205.	3994.	14629.	-200.	-7224.	516.	-1292.
292.50	1933.	-8[illegible].	3737.	14708.	-182.	-7505.	272.	-1840.
303.75	1472.	-8[illegible]	3470.	14310.	-150.	-10173.	-2172.	-3753.
315.00	1100.	-8409.	3023.	13078.	-100.	-12469.	-4086.	-5076.
326.25	1097.	-8069.	2323.	11456.	-48.	-12005.	-3099.	-3719.
337.50	1324.	-7694.	1753.	10431.	16.	-9365.	-287.	-897.
348.75	1456.	-7598.	1617.	10250.	122.	-7454.	1525.	796.

RUN 49 POINT 26
SHEPI TIP

V/CR = 0.374 ALFS,U = -5.0 CLR/S = 0.08085 CP/S = 0.005900
MAT = 0.829 THETA = 12.0 CXR/S = 0.00607 RHO = 0.002228

BLADE NORMAL BENDING MOMENT

HARMONIC	.3R COS	.3R SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	307.5		-6630.4		736.3		25561.8	
1	1176.3	-1381.5	-1474.3	1603.6	1740.6	-2024.4	-667.2	-2263.9
2	-252.5	1431.4	574.9	-1393.6	-698.6	1717.8	1874.7	-1073.1
3	354.6	48.0	-775.9	-402.0	944.9	648.1	1359.1	1126.3
4	556.5	601.8	33.6	-121.2	-311.0	5.6	-450.0	975.9
5	-58.2	-245.7	-135.4	-10.9	-16.7	162.5	-844.9	12.6
6	110.7	187.6	65.1	52.9	-80.4	-99.8	-336.3	-295.0
7	-333.6	146.6	-460.0	120.6	416.6	-152.8	-24.0	-286.3
8	57.9	1.0	131.1	-2.9	-22.7	1.2	469.9	-174.9
9	-10.4	84.9	-16.7	106.8	-3.4	-16.5	327.1	196.4
10	-41.7	13.6	-72.7	-41.2	-7.9	-61.2	-243.0	185.0

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

HARMONIC	COS	SIN	.5R COS	.5R SIN	.6R COS	.6R SIN	.7R COS	.7R SIN
0	35.9		-3525.0		5550.1		2990.5	
1	232.7	127.2	-4310.2	5759.7	-5204.8	5857.5	-4215.6	5132.7
2	1.3	76.5	1697.4	-4001.5	1883.4	-4559.6	1532.8	-3701.1
3	-93.5	-23.4	-1231.4	1341.3	-1384.0	684.6	-1040.4	266.2
4	83.5	55.5	1487.6	1495.4	1923.3	1526.7	2222.0	1572.0
5	-7.7	-11.9	167.1	1218.2	392.6	828.0	857.1	379.0
6	-11.1	-9.5	386.2	-574.7	349.5	-455.1	290.0	-339.3
7	-37.4	16.9	-994.7	413.7	-909.6	508.9	86.1	173.8
8	3.8	3.6	193.1	-162.8	-43.2	-234.3	-272.3	-252.9
9	-8.6	-7.9	166.8	415.4	261.8	269.2	295.6	11.5
10	6.3	-11.7	-273.3	-68.0	-148.4	103.6	-12.5	213.7

RUN 49 POINT 26
SWEPT TIP

V/CP = 0.374 ALPS,O = -5.. CLR/S = 0..3035 CP/. = 0.005900
MAT = 0.829 TRLTA = 12.0 CXR/S = 0.00307 RHO = 0.002228

PSI	NORMAL BENDING MOMENT .3R	.5R	.6R	.7R	PITCH LINK LOAD	EDGEWISE BENDING MOMENT .5R	.6R	.7R
0.00	1769.	-8761.	2692.	27031.	202.	-6236.	2631.	2733.
11.25	2778.	-8583.	2856.	26988.	291.	-3573.	4341.	2461.
22.50	2657.	-8319.	3042.	26650.	401.	-3474.	3462.	363.
33.75	1546.	-8326.	3140.	26725.	384.	-5566.	1297.	-1234.
45.00	594.	-7008.	2652.	24798.	295.	-7034.	73.	-1798.
56.25	190.	-7017.	1373.	19380.	314.	-7092.	724.	-941.
67.50	114.	-6109.	-312.	15900.	371.	-5222.	4197.	2434.
78.75	10.	-5302.	-1314.	18140.	325.	-1143.	8867.	6340.
90.00	-589.	-5052.	-1184.	21391.	237.	1984.	11147.	8213.
101.25	-1335.	-5366.	-1110.	22690.	146.	2653.	12134.	9694.
112.50	-1391.	-4933.	-1920.	24866.	-2.	4225.	14775.	11607.
123.75	-1399.	-3693.	-2681.	27323.	-158.	6491.	16414.	11267.
135.00	-2606.	-3462.	-2586.	27221.	-261.	5717.	14836.	9660.
146.25	-4148.	-4186.	-2262.	26490.	-322.	4620.	14454.	10752.
157.50	-4044.	-3905.	-2543.	27067.	-270.	7415.	17508.	13183.
168.75	-2237.	-2855.	-3301.	27105.	-89.	9658.	19216.	13018.
180.00	-368.	-3036.	-3460.	26723.	32.	6168.	16319.	10768.
191.25	535.	-4084.	-2141.	26898.	-11.	-193.	10924.	8298.
202.50	797.	-5460.	-2.	26761.	-99.	-5106.	5781.	5065.
213.75	1109.	-7546.	1675.	26474.	-162.	-7969.	2001.	753.
225.00	1546.	-8133.	2910.	26979.	-241.	-9595.	-794.	-3505.
236.25	1778.	-6895.	4231.	27144.	-313.	-11485.	-3661.	-6386.
247.50	1955.	-5833.	5057.	26665.	-310.	-13821.	-5706.	-6844.
258.75	2444.	-5947.	4593.	26900.	-186.	-13483.	-4559.	-4982.
270.00	2834.	-6014.	3563.	27181.	9.	-9293.	-375.	-1953.
281.25	2538.	-8148.	2482.	26460.	113.	-5201.	3624.	1068.
292.50	1343.	-7818.	1937.	25995.	62.	-4536.	4462.	2304.
303.75	92.	-7383.	1702.	26458.	-2.	-6382.	2302.	508.
315.00	-307.	-6628.	1122.	26928.	18.	-8300.	219.	-2372.
326.25	132.	-6188.	470.	27043.	73.	-9232.	-10.	-3366.
337.50	567.	-6714.	812.	26892.	128.	-9226.	267.	-2009.
348.75	886.	-7968.	1959.	26769.	170.	-8502.	735.	597.

RUN 49 POINT 32
SWEPT TIP

V/CS = 0.376 ALFS,U = -10.0 CLR/S = 0.07127 CP/S = 0.008046
MAT = 0.629 ALFA = 14.0 CXR/S = 0.01197 RHO = 0.002212

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	645.4		-7052.6		1222.2		18260.0	
1	1097.6	-1038.7	-1282.9	1295.3	1502.4	-1654.7	2520.4	-8080.2
2	-246.6	1068.7	390.4	-573.9	-513.4	1160.5	1736.3	562.6
3	232.5	259.9	-389.7	-477.3	452.2	738.1	1132.4	-865.6
4	425.7	334.9	48.4	-84.7	-282.7	72.6	-27.6	-780.1
5	-131.4	-74.0	-52.4	-5.0	20.5	49.4	-72.6	600.0
6	61.7	126.9	47.6	13.2	-62.3	-73.4	-48.0	-260.9
7	-247.6	66.4	-249.4	23.8	238.1	-53.7	875.8	1222.9
8	46.9	8.2	93.3	4.8	-41.2	-2.3	267.2	-488.2
9	-6.1	8.0	-4.6	24.5	5.9	31.5	429.0	265.2
10	-16.7	16.2	-21.8	-3.2	-2.2	-5.2	-659.6	-800.0

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-67.4		-4423.8		4718.2		1987.3	
1	250.4	123.0	-2634.3	5092.8	-3740.8	5155.9	-3115.4	4523.1
2	-20.7	117.2	567.9	-2882.0	891.0	-3194.3	1091.2	-2560.5
3	-87.1	-15.8	-401.0	723.5	-445.3	100.6	-297.9	-76.5
4	101.1	14.2	1503.6	2152.7	1839.9	1973.8	1997.0	1654.0
5	-48.4	20.4	-103.6	8.7	-72.0	-59.2	101.0	-160.7
6	39.3	-47.8	328.4	-377.9	321.8	-219.2	205.4	-122.2
7	-12.4	38.3	-655.3	214.9	-640.1	273.7	-92.1	210.1
8	-7.4	-54.2	203.6	-50.6	92.0	-74.5	-106.2	-90.7
9	8.7	30.3	87.9	43.3	152.2	-84.7	178.5	-142.1
10	-38.6	1.7	-112.2	45.7	-85.6	103.0	-26.3	112.8

RUN 49 POINT 32
SWEPT TIP

V/OR = 0.376 ALPS,U = -10.0 CLR/S = 0.07127 CP/S = 0.008046
MAT = 0.626 THETA = 14.0 CXR/S = 0.01197 RHO = 0.002212

PSI	NORMAL BENDING MOMENT .5R	.5R	.6R	.7R	PITCH LINK LOAD	EDGEWISE BENDING MOMENT .5R	.6R	.7R
0.00	1061.	-8476.	2539.	24413.	118.	-5639.	3031.	1922.
11.25	2638.	-8680.	2958.	21636.	214.	-4069.	3954.	2060.
22.50	2761.	-8680.	3181.	18333.	261.	-3896.	3577.	951.
33.75	2690.	-8561.	3282.	14480.	255.	-4911.	2227.	-454.
45.00	1226.	-8188.	2970.	13107.	317.	-6104.	979.	-1435.
56.25	693.	-7538.	1907.	13167.	317.	-6603.	1231.	-953.
67.50	540.	-6598.	455.	10697.	241.	-5299.	3882.	1556.
78.75	387.	-5898.	-532.	8879.	249.	-2236.	7527.	4540.
90.00	-81.	-5561.	-782.	9899.	197.	706.	10160.	6694.
101.25	-620.	-5606.	-839.	9601.	1.	2824.	12360.	8860.
112.50	-829.	-5348.	-1110.	8875.	-92.	4714.	14602.	10531.
123.75	-1024.	-4772.	-1366.	9895.	-201.	5030.	14614.	9579.
135.00	-1729.	-4659.	-1283.	9149.	-557.	2627.	11972.	7221.
146.25	-2498.	-5018.	-1054.	9361.	-694.	210.	10125.	6711.
157.50	-2361.	-4997.	-1165.	15167.	-303.	520.	10898.	7818.
168.75	-1223.	-4524.	-1695.	18324.	14.	2046.	12439.	8479.
180.00	-29.	-4518.	-1894.	14643.	-105.	1774.	12524.	8374.
191.25	420.	-5423.	-1067.	14913.	-269.	-1142.	10026.	7113.
202.50	370.	-6620.	401.	21107.	-287.	-5231.	5576.	3880.
213.75	592.	-7376.	1592.	24002.	-313.	-8368.	1664.	-192.
225.00	1212.	-7804.	2414.	24050.	-335.	-10260.	-783.	-3488.
236.25	1736.	-8481.	3316.	25171.	-312.	-12208.	-3080.	-5548.
247.50	2076.	-9295.	4107.	24951.	-263.	-13433.	-4476.	-5920.
258.75	2483.	-9533.	4216.	24476.	-170.	-11635.	-2749.	-4069.
270.00	2721.	-9098.	3734.	25043.	-105.	-7707.	985.	-1479.
281.25	2327.	-8591.	3233.	22653.	-107.	-5169.	3022.	-120.
292.50	1431.	-8274.	2873.	20536.	-65.	-5486.	2645.	-372.
303.75	634.	-7892.	2396.	24487.	-41.	-7408.	1045.	-1591.
315.00	358.	-7372.	1759.	27914.	-128.	-9158.	-287.	-2802.
326.25	526.	-7046.	1335.	25673.	-124.	-9638.	-489.	-2950.
337.50	799.	-7256.	1367.	24277.	28.	-8908.	305.	-1696.
348.75	1159.	-7904.	1904.	25443.	99.	-7505.	1575.	333.

T90

RUN 49 POINT 40
SWEPT TIP

V/ΩR = 0.377 ALFS,U = 0.0 CLR/S = 0.10284 CP/S = 0.005020
MAT = 0.926 THETA = 12.00 CXR/S = 0.00009 RHO = 0.002200

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	217.2		-6375.0		449.3		246.4	
1	1458.6	-1434.5	-1631.2	1769.9	1811.1	-2199.8	2772.0	-2205.5
2	-449.0	1523.6	857.1	-1561.3	-1033.9	2006.1	-1845.1	2828.3
3	231.3	285.5	-532.7	-612.6	654.3	866.6	540.4	1291.7
4	624.9	364.7	35.0	-181.2	-384.4	36.3	-794.5	-321.7
5	-28.6	440.5	-210.0	16.2	-4.4	-213.5	-310.6	-228.1
6	97.0	429.8	-38.9	48.1	25.6	-291.9	-203.1	-365.1
7	-276.1	398.0	-345.8	314.8	274.6	-368.1	-61.4	-49.2
8	107.2	24.5	89.0	13.9	-68.8	-68.7	-12.6	33.4
9	35.0	125.8	30.7	180.0	16.5	-87.3	40.1	203.6
10	-22.7	14.1	-+8.4	6.4	55.2	-62.4	-111.5	40.0

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
HARMONIC						
0	-11.0	-2836.4		6944.7		3981.6
1	284.8	215.0	-5233.2	6722.7	-5888.9	6417.2	-4634.5	5355.8
2	39.8	80.9	3335.5	-5417.9	3261.9	-6028.4	2727.8	-4986.8
3	-24.7	0.3	-2819.9	1565.4	-2576.8	788.1	-1786.9	634.3
4	76.1	25.9	3054.9	3056.1	3290.3	3017.5	3391.0	2960.4
5	5.0	-73.7	28.8	-1262.5	534.6	-646.5	1142.3	-618.8
6	-79.9	-56.8	-145.1	-1373.1	-172.5	-874.5	32.1	-770.5
7	-40.7	-41.3	-761.3	1055.5	-712.3	1109.0	-65.6	335.6
8	-71.0	24.8	-23.2	-185.7	-225.2	-186.7	-433.3	-355.4
9	18.9	-39.0	102.7	726.9	-52.7	527.0	-119.1	194.5
10	-35.1	39.6	-12.4	367.8	59.9	659.1	302.2	593.8

RUN 49 POINT 40
SWEPT TIP

V/QR = 0.377 ALFS,U = 0.0 CLR/S = 0.10284 CP/S = 0.005020
MAT = 0.826 THETA = 12.0 CXR/S = 0.00009 RHO = 0.002200

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.5R	.5P	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1945.	-8090.	1795.	260.	160.	-5380.	4463.	4538.
11.25	3963.	-7881.	1405.	1758.	270.	-3423.	6644.	4479.
22.50	3525.	-8186.	2333.	3517.	467.	-4618.	4111.	1463.
33.75	1566.	-8559.	3640.	5092.	502.	-5679.	1215.	-832.
45.00	173.	-8092.	3434.	5738.	427.	-5333.	814.	-1844.
56.25	-66.	-7196.	1859.	4021.	315.	-6094.	1192.	-1774.
67.50	326.	-6231.	-42.	981.	282.	-6052.	3745.	1347.
78.75	523.	-5207.	-1547.	-912.	309.	-3025.	8228.	5417.
90.00	-228.	-4707.	-2050.	-1374.	213.	514.	11261.	7839.
101.25	-1471.	-4698.	-1980.	-3028.	101.	4096.	14386.	11064.
112.50	-2069.	-4056.	-2429.	-3655.	67.	8422.	18647.	14243.
123.75	-2376.	-3101.	-3087.	-3706.	-128.	9550.	19184.	13312.
135.00	-3407.	-3227.	-3091.	-4294.	-327.	6406.	16325.	11305.
146.25	-4312.	-3724.	-3035.	-4982.	-187.	5568.	16651.	12659.
157.50	-3593.	-3051.	-3565.	-5080.	-107.	10027.	20619.	14988.
168.75	-1865.	-2151.	-4127.	-5370.	-346.	13891.	23262.	15919.
180.00	-795.	-2772.	-3709.	-5701.	-327.	11986.	21855.	15465.
191.25	-548.	-4481.	-2188.	-4692.	-24.	6078.	16630.	12446.
202.50	-173.	-5918.	-283.	-2380.	-93.	59.	10342.	7691.
213.75	646.	-6863.	1232.	234.	-379.	-6064.	4614.	2405.
225.00	1442.	-7856.	2567.	2785.	-393.	-13990.	-2945.	-5037.
236.25	1908.	-8965.	4109.	4835.	-378.	-20632.	-10496.	-11621.
247.50	2247.	-9819.	5095.	5772.	-461.	-20611.	-10907.	-10805.
258.75	2071.	-9879.	4802.	5713.	-319.	-14344.	-4441.	-5111.
270.00	2875.	-9235.	3948.	5072.	-62.	-6619.	2460.	-84.
281.25	2388.	-8657.	3302.	3924.	1.	-1555.	7214.	4480.
292.50	1416.	-8420.	2601.	2267.	-98.	-2612.	7650.	6105.
303.75	764.	-7765.	1477.	569.	-285.	-8406.	2742.	1245.
315.00	590.	-6810.	149.	-117.	-348.	-11021.	-477.	-3745.
326.25	74.	-5267.	-456.	402.	11.	-8215.	1845.	-2723.
337.50	-769.	-6030.	440.	650.	421.	-6562.	3152.	288.
348.75	-388.	-7565.	1754.	83.	360.	-7128.	2248.	2341.

RUN 23 POINT 32
TAPERED TIP

V/QR = 0.201 ALFS,U = 10.0 CLR/S = 0.11+12 CP/S = -0.000647
MAT = 0.717 THETA = 8.0 CXR/S = -0.02349 RHO = 0.002332

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-258.6		-5976.0		-91.4		-1341.8	
1	482.7	-1156.2	-623.6	1197.4	648.6	-1181.4	795.0	-1308.0
2	-608.5	107.2	976.7	-114.8	-1342.7	142.8	-1978.8	241.7
3	188.3	-155.3	-145.6	-215.2	166.2	392.6	65.1	756.0
4	-102.7	-271.6	64.9	53.0	76.6	34.2	286.1	254.2
5	77.6	-103.0	36.9	-19.3	-17.7	-27.4	33.5	-98.3
6	75.4	5.4	25.8	-49.3	-35.8	-13.8	9.2	-106.1
7	133.8	63.3	131.6	78.8	-134.3	-95.1	3.1	-9.9
8	-65.2	112.0	-113.5	150.2	75.5	-151.6	-61.4	33.3
9	-22.8	13.5	-38.2	30.3	20.3	-38.5	-23.2	10.6
10	-8.3	-10.1	-4.9	-10.4	-10.8	-4.0	-5.6	-2.3

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	224.0		-1581.9		6096.8		28901.2	
1	13.9	179.9	-3496.7	4474.0	-3041.8	3609.8	-2462.2	2569.8
2	36.8	-0.3	3874.8	-953.2	4404.4	-980.1	4334.5	-1115.6
3	96.8	-54.4	-1382.3	-691.0	-1321.3	-1081.3	-905.0	-1411.6
4	8.9	-26.2	748.3	-114.0	310.2	-277.6	-115.9	-620.7
5	8.5	39.5	1126.0	2398.7	949.3	2210.3	781.0	1989.3
6	16.5	12.7	56.3	460.5	59.8	540.4	-31.7	611.5
7	14.0	9.1	619.3	373.3	581.6	406.7	253.6	134.0
8	1.1	7.6	-228.4	449.4	-221.8	430.4	62.6	65.6
9	1.3	4.1	83.5	175.2	131.5	225.2	230.7	110.5
10	0.9	4.9	-36.2	-169.2	-21.9	-213.9	-81.5	-288.7

RUN 23 POINT 32
TAPERED TIP

V/OR = 0.201 ALFS,U = 10.0 CLR/S = 0.11412 CP/S = -0.000647
MAT = 0.717 THETA = 8.0 CXR/S = -0.02349 RHO = 0.002332

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	-110.	-5666.	-653.	-2219.	423.	-217.	7927.	30967.
11.25	-527.	-5401.	-816.	-1815.	427.	2000.	9672.	31283.
22.50	-1134.	-5714.	-324.	-1466.	305.	-454.	7125.	29369.
33.75	-1374.	-6133.	116.	-1308.	205.	-4458.	3229.	26516.
45.00	-786.	-5854.	-171.	-1172.	211.	-5090.	2543.	25149.
56.25	-90.	-5360.	-584.	-1092.	270.	-2345.	5003.	26458.
67.50	-236.	-5565.	-355.	-1232.	335.	183.	7080.	28767.
78.75	-858.	-5986.	74.	-1383.	402.	1547.	7941.	30441.
90.00	-1041.	-5677.	-95.	-1284.	449.	2399.	8463.	30574.
101.25	-857.	-5059.	-597.	-1184.	461.	1483.	7579.	28653.
112.50	-1039.	-5030.	-713.	-1484.	436.	-1008.	5523.	26970.
123.75	-1362.	-5308.	-632.	-2141.	382.	-1577.	5480.	28375.
135.00	-1436.	-5107.	-1011.	-2819.	335.	1665.	8780.	31802.
146.25	-1372.	-4500.	-1720.	-3332.	316.	6666.	13448.	35132.
157.50	-1535.	-4139.	-2116.	-3700.	282.	9911.	16675.	37650.
168.75	-1842.	-4221.	-2091.	-3941.	215.	9151.	16264.	37685.
180.00	-1821.	-4388.	-2004.	-3966.	154.	5883.	13328.	35171.
191.25	-1284.	-4453.	-1937.	-3618.	124.	3671.	11483.	33459.
202.50	-581.	-4770.	-1586.	-3195.	126.	2513.	10813.	33052.
213.75	-21.	-5611.	-760.	-2500.	164.	-14.	8432.	31358.
225.00	527.	-6606.	291.	-1516.	205.	-3193.	5117.	28979.
236.25	1144.	-7316.	1200.	-218.	205.	-5596.	2725.	26984.
247.50	1525.	-7835.	1974.	1161.	146.	-8571.	-383.	23557.
258.75	1491.	-8276.	2683.	2307.	33.	-11812.	-4125.	19639.
270.00	1266.	-8367.	2995.	3000.	-89.	-12312.	-4977.	18679.
281.25	1063.	-8056.	2691.	2991.	-134.	-9889.	-2532.	20449.
292.50	894.	-7723.	2092.	2040.	-81.	-6921.	703.	23481.
303.75	796.	-7485.	1396.	358.	16.	-4515.	3863.	27665.
315.00	810.	-7050.	521.	-1250.	113.	-3616.	5819.	30389.
326.25	790.	-6461.	-182.	-2121.	185.	-5049.	4841.	29377.
337.50	559.	-6123.	-308.	-2368.	233.	-6481.	3012.	27863.
348.75	204.	-5989.	-305.	-2394.	316.	-4572.	4228.	29005.

RUN 23 POINT 15
TAPERED TIP

V/CR = 0.200 ALFS,U = -2.5 CLR/S = 0.07313 CP/S = 0.002781
MAT = 0.718 THETA = 8.0 CXR/S = 0.00177 RHO = 0.002359

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-99.0		-6443.7		410.2		-522.8	
1	362.1	-725.7	-394.0	1003.0	466.4	-1147.6	742.1	-1424.1
2	341.8	158.8	653.0	-145.1	-876.3	130.6	-1402.1	55.5
3	-21.0	159.6	184.1	-428.0	-265.4	655.5	-456.1	1076.2
4	-165.1	-51.4	105.4	-59.1	-32.6	62.0	108.0	114.2
5	-46.1	40.8	-4.0	-61.7	49.7	13.6	102.8	-105.4
6	-67.0	59.5	-38.1	-5.6	113.6	-38.7	180.0	-60.4
7	4.5	149.8	-2.3	173.1	-9.6	-187.3	4.9	-23.6
8	-67.8	113.4	-119.0	157.0	16.8	-157.7	-148.6	2.7
9	16.7	39.5	0.3	61.6	-19.7	-44.6	-26.4	42.2
10	20.3	0.2	61.4	24.7	88.1	67.1	170.6	114.6

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	173.5	-2991.0	4584.6		18411.6	
1	20.6	136.1	-1699.2	4168.0	-1745.0	3799.6	-1641.8	2973.4
2	30.1	31.7	2049.9	-606.6	2439.1	-574.2	2750.4	-432.6
3	26.1	-20.5	-544.1	-1005.0	-273.5	-1461.3	-42.0	-1786.8
4	-11.1	-13.5	-471.5	640.5	-551.3	617.5	-637.8	497.7
5	1.8	6.3	-1424.9	1363.8	-1386.3	1321.1	-1177.0	1377.3
6	-2.1	-4.2	-310.0	110.0	-432.4	181.6	-390.1	144.9
7	-1.6	8.9	69.1	301.0	54.2	310.8	34.9	-92.9
8	-6.5	9.2	-231.3	289.1	-84.0	266.4	201.7	-63.9
9	-0.7	0.6	98.5	118.5	151.8	110.9	131.6	-38.4
10	0.8	1.9	213.5	1.3	-2.5	-198.0	-81.8	-184.7

RUN 23 POINT 15
TAPERED TIP

V/OR = 0.200 ALFS,U = -2.5 CLR/S = 0.07313 CP/S = 0.002781
MAT = 0.716 THETA = 8.0 CXR/S = 0.00177 RHO = 0.002359

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	-404.	-5997.	-59.	-1248.	231.	-5250.	2755.	17560.
11.25	105.	-5826.	-260.	-921.	274.	-2143.	5465.	18755.
22.50	138.	-6379.	172.	-766.	279.	-351.	7205.	20416.
33.75	-97.	-6944.	972.	-220.	266.	-477.	6552.	20360.
45.00	-91.	-6819.	901.	86.	281.	-2013.	4761.	18211.
56.25	36.	-6264.	269.	-56.	310.	-3237.	3709.	16244.
67.50	-156.	-5942.	144.	-273.	315.	-2910.	3855.	16473.
78.75	-631.	-6008.	29.	-1068.	294.	-1467.	5516.	19059.
90.00	-858.	-5876.	-578.	-2052.	282.	716.	8327.	21889.
101.25	-820.	-5342.	-891.	-1949.	289.	2646.	9882.	22401.
112.50	-780.	-5164.	-729.	-1493.	279.	2132.	8915.	21096.
123.75	-915.	-5574.	-622.	-1773.	241.	-277.	7204.	20206.
135.00	-927.	-5775.	-495.	-1894.	218.	-1201.	6498.	20098.
146.25	-761.	-5548.	-421.	-1612.	222.	187.	7228.	20595.
157.50	-719.	-5432.	-662.	-1808.	210.	1847.	8999.	22039.
168.75	-902.	-5508.	-717.	-2054.	170.	2464.	9585.	23220.
180.00	-1037.	-5565.	-502.	-1982.	139.	1751.	9152.	22948.
191.25	-848.	-5627.	-641.	-2246.	129.	89.	8039.	22184.
202.50	-410.	-5746.	-751.	-2402.	134.	-1569.	7156.	21411.
213.75	-19.	-6089.	-200.	-1852.	147.	-3186.	5350.	20103.
225.00	286.	-6747.	491.	-1183.	151.	-4918.	3435.	18766.
236.25	645.	-7342.	1131.	-147.	123.	-6141.	2190.	17206.
247.50	920.	-7728.	2079.	1606.	65.	-7618.	-93.	14248.
258.75	974.	-8167.	2725.	2734.	6.	-10296.	-3180.	11035.
270.00	1011.	-8391.	2716.	3028.	-28.	-11993.	-4437.	9505.
281.25	1010.	-8221.	2885.	3664.	-32.	-10923.	-3755.	9654.
292.50	725.	-8246.	3129.	3620.	-27.	-8689.	-2132.	11908.
303.75	505.	-8261.	2390.	1760.	-5.	-6033.	1473.	16445.
315.00	725.	-7332.	941.	-126.	62.	-2869.	5513.	19928.
326.25	746.	-6125.	-53.	-893.	146.	-2093.	6090.	19742.
337.50	31.	-5961.	-235.	-1478.	186.	-4921.	3443.	18089.
348.75	-616.	-6254.	-33.	-1732.	196.	-6969.	1646.	17376.

RUN 23 POINT 26
TAPERED TIP

V/OR = 0.159 ALFS,U = -5.0 CLR/S = 0.11816 CP/S = 0.006979
MAT = 0.721 THETA = 13.0 CXR/S = 0.00832 RHO = 0.002341

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	846.8		-7135.6		1279.8		257.9	
1	462.0	-689.9	-282.6	1134.6	199.8	-1328.5	485.0	-1613.3
2	24.7	46.4	368.5	140.6	-575.1	-279.3	-1413.1	-760.8
3	-584.7	226.5	683.2	-368.2	-833.2	613.4	-1021.9	1111.9
4	-247.3	-263.4	216.8	40.6	-108.7	39.1	77.8	201.4
5	-19.8	88.2	-74.0	-80.9	56.1	7.1	128.3	-178.7
6	-189.8	-167.2	-139.2	-166.6	304.6	149.9	254.2	117.5
7	24.2	2.8	75.5	-8.9	-16.6	16.0	106.4	-58.8
8	-149.9	-7.1	-252.3	-36.5	59.4	-100.5	-243.4	-174.2
9	-26.7	17.0	-81.3	-18.7	62.5	-75.6	-114.9	-78.9
10	14.2	34.9	46.5	96.7	29.7	178.6	88.9	264.0

	PITCH LINK LOAD		BLADE EDGEWISE BENDING MOMENT					
			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	143.7		-3746.7		3055.8		24226.6	
1	77.8	256.7	-483.4	5476.4	-368.5	4866.8	-872.2	3703.5
2	123.7	105.7	2280.2	50.9	2535.2	223.0	3757.5	954.1
3	-6.5	3.1	-648.1	-1541.8	-128.0	-2077.5	-171.3	-2712.6
4	-16.5	-41.6	-1019.6	1843.1	-1174.1	1570.6	-1458.3	1215.7
5	-49.3	-11.9	-2486.4	-609.9	-2082.8	-412.9	-2[illegible]5.7	96.7
6	-17.9	15.7	-621.3	-366.9	-884.5	-389.9	-406.9	-243.7
7	5.6	20.1	-233.0	263.3	-369.2	182.8	-573.5	283.2
8	-3.6	-7.2	-487.6	12.9	-64.3	228.1	492.4	253.6
9	0.6	-10.0	-184.8	89.7	-212.6	269.6	132.3	269.1
10	-7.6	2.6	106.9	257.1	-60.2	-262.7	-201.2	-231.8

RUN 23 POINT 26
TAPERED TIP

V/CR = 0.199 ALFS,U = -5.0 CLR/S = 0.11816 CP/S = 0.006979
MAT = 0.721 THETA = 13.0 CXR/S = 0.00832 RHO = 0.002341

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	154.	-6575.	438.	-1395.	250.	-7524.	247.	22980.
11.25	369.	-6529.	449.	-1340.	359.	-3758.	3314.	25266.
22.50	999.	-6546.	300.	-912.	479.	972.	7693.	28014.
33.75	1463.	-6661.	859.	-395.	527.	3207.	9014.	29110.
45.00	1565.	-7243.	1345.	49.	519.	2130.	7733.	28279.
56.25	1360.	-7285.	1167.	186.	487.	-884.	5409.	25516.
67.50	937.	-6913.	1107.	323.	423.	-3164.	2801.	22747.
78.75	345.	-6525.	727.	-379.	329.	-5203.	2947.	23539.
90.00	-213.	-6034.	-555.	-1762.	237.	-785.	6845.	26688.
101.25	-530.	-5219.	-1064.	-1669.	195.	3102.	9817.	27793.
112.50	-769.	-5047.	-140.	-494.	197.	4780.	9256.	27307.
123.75	-922.	-6046.	444.	-445.	173.	1835.	7494.	27124.
135.00	-437.	-6782.	400.	-663.	136.	-2378.	5250.	25323.
146.25	655.	-6539.	735.	-38.	167.	-3932.	2641.	22722.
157.50	1320.	-6522.	1054.	-64.	229.	-3190.	2526.	23750.
168.75	1033.	-7052.	1163.	-680.	229.	-1419.	4983.	27521.
180.00	444.	-7216.	1521.	-560.	194.	547.	6569.	29680.
191.25	269.	-6934.	1353.	-660.	167.	947.	6833.	29939.
202.50	531.	-6660.	497.	-1449.	111.	-662.	6745.	29505.
213.75	805.	-6648.	395.	-1651.	34.	-3409.	4808.	28137.
225.00	820.	-7158.	1050.	-1404.	-21.	-7210.	1299.	26008.
236.25	833.	-7734.	1470.	-724.	-64.	-10661.	-1954.	22522.
247.50	1080.	-7760.	2136.	1478.	-89.	-11803.	-4488.	17335.
258.75	1237.	-7984.	3070.	3675.	-98.	-12185.	-6262.	13742.
270.00	1415.	-8859.	3498.	4086.	-186.	-13254.	-6397.	13695.
281.25	1807.	-9278.	3783.	4593.	-340.	-12897.	-57	14260.
292.50	2172.	-9117.	4381.	5667.	-364.	-10754.	-4931.	14973.
303.75	2025.	-9340.	4241.	4568.	-202.	-8575.	-2332.	19061.
315.00	1828.	-9236.	2997.	1752.	-8.	-5401.	2381.	25099.
326.25	1955.	-7857.	1541.	122.	120.	-1788.	5918.	27870.
337.50	1703.	-6500.	453.	-537.	191.	-2252.	5359.	26242.
348.75	756.	-6336.	143.	-1238.	214.	-6329.	1880.	23505.

RUN 23 POINT 10
TAPERED TIP

V/QR = 0.200 ALFS,U = 0.0 CLR/S = 0.12534 CP/S = 0.004893
MAT = 0.720 THETA = 11.0 CXR/S = -0.00265 RHO = 0.002372

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	655.2		-6723.0		795.5		-420.8	
1	483.1	-672.4	-185.4	1021.5	234.1	-1131.6	606.1	-1392.5
2	-271.9	135.9	735.1	-42.8	-996.6	-49.2	-1779.7	-406.2
3	-411.3	294.4	592.3	-476.3	-713.4	763.9	-1006.7	1147.6
4	-165.7	-162.8	132.5	-12.4	-83.2	-5.3	-38.8	146.3
5	2.5	60.0	-34.0	-76.6	9.6	-17.4	6.4	-209.6
6	-196.8	74.6	-174.2	45.1	235.2	-91.1	186.1	10.4
7	-79.0	213.1	-81.9	269.4	114.1	-283.8	73.3	-11.6
8	-115.4	127.9	-201.5	150.1	78.5	-174.1	-135.8	-67.6
9	-9.1	109.7	-72.6	145.3	14.5	-64.1	-113.2	95.0
10	27.3	76.9	54.0	117.1	209.6	92.4	206.1	223.9

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	180.6		-2605.5		4814.4		10397.9	
1	63.4	236.0	-320.5	4654.1	-604.9	3882.3	-986.5	2638.3
2	108.7	89.5	3301.4	-514.5	3538.3	-363.2	4159.6	77.9
3	20.8	5.8	-803.7	-1354.0	-394.7	-2008.6	-275.2	-2315.4
4	-17.2	-27.9	-647.2	2417.3	-712.8	2299.1	-733.9	1812.0
5	-26.4	-4.3	-2134.7	1408.4	-1799.2	1436.0	-1377.2	1620.2
6	-18.0	2.5	-419.5	-125.2	-495.1	-96.1	-155.8	-446.4
7	6.2	24.2	-588.2	1098.3	-738.5	1086.9	-567.4	462.2
8	-12.1	0.3	-242.5	359.0	41.5	282.7	404.5	106.9
9	-8.8	-15.6	-13.5	457.4	98.7	170.6	357.0	-82.4
10	3.0	-8.0	157.9	404.5	-438.8	-165.6	-400.7	-285.2

RUN 23 POINT 10
TAPERED TIP

V/OR = 0.200 ALFS,U = 0.0 CLR/S = 0.12534 CP/S = 0.004893
MAT = 0.720 THETA = 11.0 CXR/S = -0.00265 RHO = 0.002372

PSI	NORMAL BENDING MOMENT .3R	.5R	.6R	.7R	PITCH LINK LOAD	EDGEWISE BENDING MOMENT .5R	.6R	.7R
0.00	-96.	-5969.	-102.	-2417.	300.	-4316.	3259.	10823.
11.25	914.	-5203.	-861.	-1932.	392.	2467.	9089.	13364.
22.50	1109.	-5875.	-479.	-1611.	505.	4681.	11939.	15361.
33.75	887.	-7074.	1249.	-518.	513.	2959.	9011.	14102.
45.00	1044.	-7304.	1753.	448.	457.	125.	5469.	10795.
56.25	1223.	-6878.	989.	432.	465.	-3073.	3511.	7777.
67.50	1040.	-6506.	751.	106.	440.	-4289.	2437.	6679.
78.75	503.	-6333.	473.	-724.	311.	-2557.	4211.	8969.
90.00	-210.	-6110.	-351.	-1851.	244.	241.	7999.	12495.
101.25	-642.	-5560.	-552.	-1774.	286.	3112.	9937.	13593.
112.50	-670.	-5206.	-347.	-1092.	279.	4266.	10019.	13051.
123.75	-626.	-5616.	-407.	-1257.	211.	1360.	8659.	12053.
135.00	-369.	-6106.	-24.	-1382.	206.	-2757.	4992.	9673.
146.25	202.	-6094.	462.	-1111.	252.	-3183.	3188.	8853.
157.50	507.	-6103.	219.	-1445.	265.	-215.	6617.	12446.
168.75	265.	-6316.	208.	-1721.	238.	2770.	10203.	16163.
180.00	-69.	-6386.	580.	-1549.	190.	3405.	10136.	16521.
191.25	-124.	-6322.	121.	-2074.	149.	1324.	9120.	15751.
202.50	151.	-6145.	-466.	-2615.	137.	-1010.	8185.	14800.
213.75	534.	-6097.	-102.	-2182.	123.	-2125.	6561.	13516.
225.00	673.	-6752.	430.	-1869.	72.	-4496.	4803.	12756.
236.25	758.	-7625.	1097.	-1165.	8.	-8682.	1250.	9680.
247.50	1161.	-7884.	2403.	1227.	-32.	-11787.	-4300.	2896.
258.75	1584.	-8124.	3142.	3182.	-62.	-13242.	-6702.	-1153.
270.00	1811.	-8704.	3036.	3435.	-129.	-13311.	-4822.	437.
281.25	2012.	-8867.	3527.	4131.	-231.	-10882.	-3271.	2360.
292.50	1848.	-8909.	4138.	4762.	-266.	-7720.	-1855.	4007.
303.75	1364.	-9116.	3358.	3068.	-157.	-5385.	2415.	8694.
315.00	1533.	-8066.	1669.	732.	8.	-1675.	7011.	12922.
326.25	1921.	-6034.	187.	-413.	126.	945.	7953.	12659.
337.50	1026.	-5543.	-484.	-1613.	209.	-2830.	5142.	10704.
348.75	-293.	-6308.	-166.	-2673.	265.	-7497.	1896.	9984.

RUN 25 POINT 4
TAPERED TIP

V/OR = 0.299 ALFS,U = -5.0 CLR/S = 0.07295 CP/S = 0.004181
MAT = 0.781 THETA = 10.0 CXR/S = 0.00354 RHO = 0.002304

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	125.7		-6580.8		561.5		-710.1	
1	863.7	-1097.1	-1168.8	1382.3	1499.2	-1604.5	1922.0	-2087.9
2	-194.3	777.2	485.0	-533.2	-732.3	538.7	-1104.7	635.8
3	251.1	64.7	-215.9	-399.4	234.4	563.6	167.2	722.0
4	137.0	227.4	-2.7	0.6	-196.7	-2[illegible].0	-392.9	-17.4
5	174.4	-74.4	13.9	-54.5	-107.3	60.0	-332.9	72.3
6	-14.1	31.4	16.8	5.8	-62.3	-7.8	33.8	-38.0
7	-134.5	-158.1	-90.8	-231.7	93.1	184.9	3.8	-58.1
8	63.8	-27.8	96.7	-33.4	-75.6	70.6	34.3	1.2
9	-32.1	-21.3	-34.2	-48.4	-5.7	7.4	-48.9	-27.4
10	-23.0	3.7	-29.4	-22.0	-27.0	-37.4	-53.7	-89.5

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN
HARMONIC						
0	157.7	-3328.9	5297.4		6349.2	
1	89.1	132.8	-3637.6	5262.6	-4505.0	4903.1
2	26.2	62.9	1625.1	-1254.8	2056.7	-1233.5
3	-38.5	0.6	-1132.8	-109.0	-963.2	-493.8
4	25.0	39.5	-380.0	693.6	139.6	625.0
5	1.2	7.0	656.0	-650.3	721.5	-585.3
6	2.5	-8.0	130.8	-424.9	265.9	-339.5
7	3.7	-11.9	-372.2	-350.0	-339.2	-272.2
8	4.0	-2.8	327.6	-107.6	336.6	-242.0
9	0.7	-1.5	-172.2	-64.2	-161.0	6.0
10	1.6	-4.2	-114.1	5.6	-54.0	184.4

RUN 25 POINT 4
TAPERED TIP

V/OR =	0.299	ALFS,U =	-5.0	CLR/S =	0.07295	CP/S = 0.004181
MAT =	0.781	THETA =	10.0	CXR/S =	0.00554	RHO = 0.002304

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1218.	-7510.	1183.	-482.	273.	-6404.	2795.	4660.
11.25	1226.	-7970.	1818.	-41.	314.	-6657.	2085.	4845.
22.50	1247.	-7695.	2029.	889.	368.	-5357.	2076.	3420.
33.75	983.	-7202.	1646.	1183.	408.	-3362.	3474.	3048.
45.00	413.	-6951.	1318.	750.	393.	-1753.	5145.	5017.
56.25	-116.	-6755.	1035.	-110.	349.	-1235.	5784.	6721.
67.50	-298.	-6293.	181.	-1445.	320.	-1322.	6498.	7676.
78.75	-266.	-5563.	-848.	-2502.	312.	-814.	7935.	8736.
90.00	-542.	-5049.	-1173.	-2651.	306.	-22.	8595.	8822.
101.25	-1209.	-5109.	-1017.	-2682.	263.	364.	8704.	8718.
112.50	-1628.	-5203.	-1112.	-3033.	177.	1511.	10186.	10177.
123.75	-1513.	-4750.	-1493.	-3175.	105.	3855.	12444.	11442.
135.00	-1470.	-4285.	-1764.	-3307.	74.	5135.	13301.	11382.
146.25	-1913.	-4473.	-1717.	-3788.	64.	4111.	12600.	11879.
157.50	-2308.	-4877.	-1604.	-4066.	79.	2724.	12000.	12770.
168.75	-1965.	-4808.	-1873.	-3969.	124.	2681.	12622.	12598.
180.00	-1028.	-4518.	-2244.	-3905.	161.	2913.	13289.	11929.
191.25	-208.	-4767.	-1909.	-3680.	162.	1673.	11922.	10940.
202.50	247.	-5070.	-901.	-2975.	134.	-678.	9219.	9626.
213.75	696.	-6575.	117.	-1809.	77.	-2760.	7114.	9039.
225.00	1191.	-7133.	1061.	-148.	14.	-5126.	4425.	7625.
236.25	1371.	-7729.	2058.	1552.	-23.	-8862.	102.	3563.
247.50	1328.	-8482.	2846.	2497.	-39.	-12037.	-2921.	253.
258.75	1457.	-8906.	3292.	2773.	-35.	-12080.	-2819.	454.
270.00	1657.	-8870.	3398.	2763.	7.	-11036.	-1585.	1517.
281.25	1613.	-8615.	3029.	2407.	64.	-8257.	-326.	1910.
292.50	1291.	-8140.	2452.	2071.	95.	-7328.	862.	2392.
303.75	704.	-7653.	2187.	2018.	93.	-7565.	499.	1887.
315.00	76.	-7555.	2108.	1573.	66.	-8717.	-893.	870.
326.25	19.	-7494.	1759.	671.	48.	-8630.	-427.	1777.
337.50	616.	-7061.	1206.	105.	97.	-6766.	1765.	3452.
348.75	1132.	-6922.	899.	-210.	200.	-5725.	3046.	4030.

-013-

RUN 25 POINT 10
TAPERED TIP

V/OR = 0.300 ALFS,U = -10.0 CLR/S = 0.07103 CP/S = 0.006365
MAT = 0.781 THETA = 12.0 CXR/S = 0.01207 RHO = 0.002291

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	452.4		-6949.0		1002.8		-195.9	
1	849.4	-791.9	-1026.4	1169.2	1322.5	-1384.3	1758.3	-1830.2
2	-31.7	583.3	279.5	-302.0	-497.7	305.7	-915.7	292.0
3	52.7	175.2	-12.4	-352.7	16.6	517.9	5.8	587.7
4	144.2	182.3	39.2	9.5	-204.2	-32.7	-379.6	8.8
5	52.1	19.3	-1.3	-23.0	-28.2	-8.5	-108.5	-54.8
6	-9.5	69.1	22.8	36.6	-43.8	-45.3	33.2	-30.7
7	-163.7	-77.7	-138.4	-98.4	146.9	64.0	-2.8	-15.3
8	-15.5	-6.1	1.8	-10.2	15.6	19.3	33.7	-4.0
9	8.7	9.2	9.6	1.4	-32.5	-20.0	-17.7	-13.6
10	10.3	-6.1	6.1	-8.6	-25.1	-15.2	-19.7	-37.1

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	122.4	-3904.9	4628.2		5171.9	
1	120.3	153.6	-2374.0	4976.3	-3432.3	4624.0	-2930.8	3530.8
2	48.1	74.0	796.2	-889.0	1265.8	-761.5	1503.7	-547.9
3	-58.2	33.4	-659.9	-94.3	-507.2	-528.4	-376.1	-294.2
4	31.3	12.1	105.1	1407.3	444.5	1331.4	600.3	923.4
5	-25.7	8.2	181.5	-1965.3	240.3	-1718.4	279.7	-1308.7
6	-0.5	2.9	2.7	-350.1	51.0	-304.0	-110.1	-301.0
7	0.6	-3.9	-351.6	-193.3	-357.7	-135.9	18.5	80.4
8	1.7	-0.8	-47.7	-35.0	-67.5	-102.9	-72.7	-39.5
9	-0.9	-4.3	98.1	18.6	153.7	58.1	116.3	19.6
10	-1.0	-1.1	21.3	49.3	60.5	134.8	49.6	177.6

RUN 25 POINT 10
TAPERED TIP

V/CR = 0.300 ALFS,U = -10.0 CLR/S = 0.07103 CP/S = 0.006365
MAT = 0.781 THETA = 12.0 CXR/S = 0.01207 RHO = 0.002291

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1349.	-7768.	1673.	191.	234.	-6133.	2479.	4250.
11.25	1690.	-7901.	1833.	329.	321.	-6511.	1848.	3699.
22.50	1858.	-7759.	1952.	812.	414.	-5176.	2346.	3358.
33.75	1535.	-7601.	1962.	1111.	460.	-2673.	4287.	4455.
45.00	832.	-7537.	1917.	966.	442.	-1075.	5659.	5692.
56.25	325.	-7240.	1513.	350.	389.	-1098.	5733.	5804.
67.50	265.	-6563.	543.	-692.	330.	-1566.	6107.	5854.
78.75	205.	-5898.	-362.	-1665.	276.	-1741.	6839.	6258.
90.00	-249.	-5618.	-614	-2111.	229.	-1350.	7256.	6712.
101.25	-819.	-5581.	-590.	-2229.	173.	425.	8785.	8201.
112.50	-1056.	-5429.	-754.	-2246.	100.	3139.	11557.	10287.
123.75	-999.	-5153.	-907.	-2146.	34.	4395.	12675.	10679.
135.00	-1024.	-5108.	-804.	-2208.	8.	2943.	11070.	9648.
146.25	-1236.	-5410.	-613.	-2619.	27.	226.	8888.	9155.
157.50	-1281.	-5663.	-638.	-3002.	78.	-1606.	7917.	9130.
168.75	-872.	-5576.	-942.	-3118.	139.	-1467.	8575.	9221.
180.00	-249.	-5431.	-1178.	-3079.	170.	79.	10286.	10035.
191.25	162.	-5644.	-935.	-2806.	133.	991.	11150.	10730.
202.50	315.	-6217.	-260.	-2145.	32.	-454.	9644.	9738.
213.75	468.	-6826.	512.	-1153.	-69.	-3994.	6139.	6953.
225.00	775.	-7251.	1200.	40.	-116.	-8019.	1928.	3167.
236.25	1113.	-7621.	1823.	1165.	-108.	-10977.	-1458.	-58.
247.50	1270.	-8160.	2493.	1951.	-73.	-11877.	-2708.	-875.
258.75	1303.	-8692.	3143.	2482.	-32.	-10534.	-1858.	405.
270.00	1473.	-8815.	3375.	2831.	-11.	-7985.	-0.	1801.
281.25	1675.	-8572.	3111.	2858.	-17.	-6387.	1342.	2210.
292.50	1484.	-8359.	2880.	2697.	-14.	-7309.	562.	1289.
303.75	938.	-8259.	2852.	2518.	14.	-9525.	-1668.	-328.
315.00	587.	-8050.	2577.	2072.	38.	-10079.	-2192.	-512.
326.25	660.	-7704.	2035.	1353.	56.	-8188.	-85.	1319.
337.50	888.	-7455.	1682.	789.	99.	-6009.	2141.	3176.
348.75	1089.	-7505.	1611.	435.	164.	-5421.	2860.	4048.

RUN 24 POINT 10
TAPERED TIP

V/OR =	0.300	ALFS,U =	0.0	CLR/S =	0.11481
MAT =	0.781	THETA =	12.0	CXR/S =	0.00019
CP/S =	0.004735				
RHO =	0.002256				

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	457.1		-6639.4		590.0		-804.4	
1	1041.5	-1130.5	-1363.4	1560.9	1687.8	-1854.2	2075.4	-2388.0
2	-210.2	824.9	696.5	-436.6	-1046.8	499.3	-1678.3	683.8
3	189.1	17.8	-148.9	-460.8	154.9	638.3	33.4	752.1
4	351.5	58.9	-38.4	59.8	-282.6	112.0	-627.5	316.4
5	198.2	-131.2	-127.6	-7.4	-45.0	72.4	-441.2	246.3
6	191.6	19.8	47.9	-9.8	-113.8	80.8	-48.7	9.6
7	-227.1	-186.0	-276.6	-284.5	163.2	279.9	-85.1	-31.7
8	124.4	-141.8	182.6	-188.7	-115.5	238.8	55.3	-37.8
9	5.0	-90.8	25.9	-166.0	-10.5	160.6	44.7	-54.2
10	17.2	3.5	-40.1	-98.7	-225.2	-49.8	-238.4	-235.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	146.8		-2894.3		6202.5		7496.8	
1	115.5	232.7	-5146.0	6530.2	-5524.9	5813.3	-4685.7	4685.2
2	120.9	121.8	3268.2	-1360.6	3757.3	-1426.0	3647.5	-1453.3
3	-32.5	2.1	-1461.2	-146.3	-1140.3	-644.3	-452.6	-452.1
4	16.8	13.4	335.2	3199.5	1061.6	2303.8	1421.8	1359.9
5	-21.8	5.5	-2071.6	1452.5	-1624.9	1199.6	-827.6	721.4
6	-48.9	-11.1	15.2	-270.1	288.0	-470.7	27.0	-240.2
7	-33.0	-4.1	-554.6	-330.3	-260.6	-435.2	255.7	178.7
8	2.7	20.5	377.7	-606.3	221.6	-862.2	-135.4	-366.1
9	8.2	7.8	-106.0	-375.0	-187.2	-412.8	-407.0	-81.9
10	-3.0	-26.1	5.1	-219.6	566.0	77.3	503.4	317.8

RUN 24 POINT 10
TAPERED TIP

V/OR = 0.300 ALFS,U = 0.0 CLR/S = 0.11481 CP/S = 0.004735
MAT = 0.781 THETA = 12.0 CXR/S = 0.00019 RHO = 0.002256

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	2138.	-7652.	756.	-1715.	272.	-8232.	2959.	6844.
11.25	1467.	-8364.	2281.	-622.	416.	-4743.	3441.	7856.
22.50	1280.	-7408.	2250.	1283.	594.	1039.	6796.	7870.
33.75	1261.	-6551.	1141.	1556.	615.	2551.	8938.	7138.
45.00	717.	-6593.	1354.	697.	512.	-2314.	4756.	4828.
56.25	297.	-7283.	1580.	-288.	432.	-6929.	608.	3339.
67.50	568.	-6479.	67.	-1732.	370.	-6472.	2822.	5031.
78.75	619.	-5429.	-1143.	-2570.	335.	-2314.	7180.	7587.
90.00	-250.	-5037.	-962.	-2328.	346.	2614.	10554.	10203.
101.25	-1237.	-5202.	-1018.	-2598.	248.	5894.	14135.	13748.
112.50	-1488.	-5055.	-1405.	-3155.	76.	6484.	15309.	14758.
123.75	-1320.	-4322.	-1481.	-3054.	41.	5353.	13027.	12279.
135.00	-1511.	-4050.	-1831.	-3635.	94.	3522.	11614.	11649.
146.25	-2139.	-4667.	-2080.	-4852.	91.	2378.	12429.	13956.
157.50	-2355.	-4963.	-1854.	-4936.	122.	4456.	14730.	16086.
168.75	-1494.	-4354.	-2380.	-4685.	199.	8892.	19079.	18239.
180.00	-275.	-3870.	-3144.	-4969.	199.	10446.	21235.	19078.
191.25	163.	-4383.	-2275.	-4353.	174.	6841.	16910.	15746.
202.50	100.	-5574.	-725.	-3024.	159.	1414.	11087.	11678.
213.75	546.	-6505.	12.	-1953.	64.	-2733.	8003.	9427.
225.00	1360.	-6835.	898.	-63.	-33.	-6009.	4213.	5260.
236.25	1742.	-7437.	2224.	2115.	-64.	-9693.	-410.	571.
247.50	1762.	-8696.	3011.	2661.	-159.	-13060.	-2366.	261.
258.75	1922.	-9440.	3570.	2764.	-245.	-14306.	-3356.	882.
270.00	2119.	-9302.	4117.	3505.	-191.	-13554.	-4805.	-993.
281.25	2029.	-9183.	3843.	3323.	-84.	-11997.	-3606.	-959.
292.50	1674.	-8891.	3150.	2722.	-199.	-9226.	-54.	1662.
303.75	1081.	-8027.	2849.	3054.	-224.	-6222.	1804.	2432.
315.00	353.	-7676.	2607.	2514.	-42.	-6605.	867.	2021.
326.25	200.	-7866.	2074.	536.	125.	-9756.	-784.	2788.
337.50	1120.	-7275.	1150.	-697.	189.	-10810.	-478.	3711.
348.75	2176.	-6737.	236.	-1249.	222.	-9526.	1842.	4918.

RUN 26 POINT 9
TAPERED TIP

V/CR = 0.300 ALFS,U = -7.5 CLR/S = 0.10456 CP/S = 0.009651
MAT = 0.780 THETA = 15.0 CXR/S = 0.01338 RHO = 0.002314

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-350.6		-6161.9		167.9		-391.5	
1	895.1	-1513.5	-1221.6	1721.7	1397.9	-2082.0	1675.3	-2685.2
2	-40.7	1421.2	76.3	-1474.6	-52.6	1758.0	-121.6	2069.3
3	294.0	-420.6	-621.1	144.0	762.8	68.9	1042.4	424.5
4	643.7	452.5	-74.6	-95.6	-213.9	-103.9	-736.6	-376.0
5	77.0	-358.1	-77.4	-33.1	-43.8	332.2	-333.0	647.6
6	171.6	63.9	84.1	47.5	-162.6	-27.8	-191.6	18.8
7	-152.5	281.3	-206.4	230.6	167.2	-290.9	-55.9	-71.2
8	56.2	-60.5	113.5	-116.1	-17.4	77.0	126.4	-50.2
9	34.3	35.4	28.0	49.2	2.8	28.4	59.3	122.8
10	-15.7	22.8	-60.9	11.2	-1.5	-18.3	-95.7	19.3

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	172.3		-2352.3		6016.5		6320.6	
1	119.3	15.4	-3036.9	5197.6	-3652.0	5453.1	-3124.0	4187.9
2	-22.9	92.6	69.0	-3815.8	64.8	-4387.3	-15.5	-3508.7
3	-37.1	-18.2	-405.3	1029.6	-614.8	495.5	-666.8	-99.5
4	88.8	55.0	-329.4	85.3	242.8	439.1	836.4	740.8
5	-17.3	-16.6	1696.4	1392.5	1771.3	662.7	1988.3	267.4
6	-6.3	7.0	337.2	-253.0	481.1	-231.7	409.4	-351.1
7	-7.0	3.9	-485.2	728.9	-446.8	904.9	93.3	356.1
8	1.6	-6.8	155.2	-191.5	-74.9	-180.4	-369.9	69.6
9	0.4	0.5	173.7	120.3	93.7	-6.2	-51.7	-92.4
10	0.4	-7.2	-326.8	1.2	-281.6	-0.9	-142.4	-59.0

RUN 26 POINT 9
TAPERED TIP

V/OR = 0.300 ALFS,U = -7.5 CLR/S = 0.10456 CP/S = 0.009651
MAT = 0.780 THETA = 15.0 CXR/S = 0.01338 RHO = 0.002314

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1612.	-8122.	2007.	977.	272.	-4504.	3600.	5278.
11.25	1635.	-7923.	2204.	2053.	321.	-3016.	4334.	4738.
22.50	755.	-7692.	2291.	2646.	365.	-4121.	2715.	2532.
33.75	-206.	-7380.	2098.	2441.	353.	-6164.	236.	147.
45.00	-559.	-6766.	1299.	1307.	303.	-5722.	586.	1169.
56.25	-462.	-6070.	-50.	-808.	293.	-3091.	5020.	5480.
67.50	-372.	-5415.	-1201.	-2497.	319.	-176.	8861.	8923.
78.75	-702.	-4899.	-1459.	-2673.	330.	2074.	10574.	9959.
90.00	-1463.	-4859.	-1346.	-2861.	305.	2346.	10629.	10642.
101.25	-1948.	-4790.	-2014.	-4127.	228.	1819.	11358.	12045.
112.50	-1910.	-3779.	-3331.	-4913.	108.	3953.	14366.	13296.
123.75	-2398.	-2644.	-3543.	-4530.	-12.	7284.	16990.	13704.
135.00	-3394.	-2752.	-3436.	-4203.	-118.	7963.	16599.	13830.
146.25	-4957.	-3331.	-2815.	-4082.	-172.	7678.	15890.	14404.
157.50	-4256.	-3123.	-2860.	-3670.	-98.	8108.	16289.	14308.
168.75	-2390.	-2929.	-3089.	-3574.	69.	5635.	14250.	11965.
180.00	-684.	-3925.	-2567.	-3799.	196.	-390.	9297.	8800.
191.25	439.	-5642.	-1124.	-3154.	237.	-5167.	5219.	7223.
202.50	1126.	-7010.	502.	-1274.	213.	-6396.	3625.	6555.
213.75	1538.	-7721.	1780.	1265.	123.	-5603.	3148.	5019.
225.00	1443.	-8203.	2964.	3775.	24.	-5137.	2099.	2627.
236.25	1027.	-8806.	4015.	5209.	11.	-7335.	-881.	-68.
247.50	999.	-9053.	4094.	4905.	88.	-10848.	-3896.	-1999.
258.75	1672.	-8435.	2966.	3433.	194.	-11004.	-2948.	-1159.
270.00	1931.	-7585.	1653.	1675.	278.	-7558.	1211.	2429.
281.25	1360.	-7238.	1015.	314.	283.	-4502.	4363.	6015.
292.50	211.	-7004.	863.	-35.	216.	-3124.	5397.	7341.
303.75	-635.	-6498.	744.	478.	157.	-2987.	4970.	5864.
315.00	-743.	-6173.	630.	1006.	132.	-4575.	3112.	2832.
326.25	-353.	-6425.	728.	1062.	123.	-6736.	1387.	1284.
337.50	132.	-7128.	1123.	695.	154.	-7455.	1356.	2568.
348.75	900.	-7861.	1635.	429.	219.	-6522.	2318.	4509.

RUN 26 POINT 12
TAPERED TIP

V/OR = 0.377 ALFS,U = -5.0 CLR/S = 0.07736 CP/S = 0.005677
MAT = 0.825 THETA = 12.0 CXR/S = 0.00591 RHO = 0.002264

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	449.6		-6670.3		753.5		251.0	
1	1261.8	-1344.3	-1574.3	1532.9	1906.5	-1921.4	2418.6	-2631.2
2	-276.1	1359.0	651.8	-1276.6	-816.2	1547.5	-1180.1	1794.5
3	140.4	114.9	-643.6	-461.0	788.3	756.0	989.6	1197.8
4	746.5	407.6	56.9	-111.1	-415.2	72.4	-965.6	-75.6
5	-287.0	-383.6	-128.7	-19.2	84.5	275.7	-101.1	662.9
6	195.7	39.3	111.6	-13.6	-103.7	-27.6	-139.9	-131.9
7	-310.8	304.7	-363.0	296.2	298.2	-302.9	-25.0	-4.5
8	78.3	-23.8	170.1	-61.1	-59.2	-16.2	120.9	-24.7
9	17.4	41.2	25.7	71.0	11.0	-5.2	55.3	86.1
10	-41.7	37.0	-77.3	-14.4	0.8	-78.0	-90.3	-57.0

COS

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	156.6	-2551.0	5500.6		6299.5	
1	218.3	98.4	-4474.9	5690.1	-5565.9	5678.8	-4375.4	4649.0
2	45.1	124.0	2082.2	-3823.7	2315.4	-4303.5	2082.7	-3355.9
3	-121.3	-9.5	-1479.7	913.9	-1516.1	198.3	-1273.0	-183.7
4	114.7	35.7	1871.8	2002.9	2353.6	1797.8	2721.4	1628.2
5	-24.8	-49.9	2360.4	804.7	2178.9	285.1	2130.8	-292.9
6	-17.8	-6.7	440.5	-760.1	349.5	-668.1	280.2	-458.1
7	-14.0	5.9	-924.0	550.8	-817.9	623.0	-43.6	46.8
8	-1.1	-4.9	193.3	-194.1	-116.9	-94.8	-454.4	-51.6
9	0.1	-1.2	210.3	135.7	171.9	49.7	88.0	-73.7
10	2.1	-12.5	-245.0	-15.4	-43.5	202.9	141.1	113.2

RUN 26 POINT 12
TAPERED TIP

V/OR = 0.377 ALFS,U = -5.0 CLR/S = 0.07736 CP/S = 0.005677
MAT = 0.825 THETA = 12.0 CXR/S = 0.00591 RHO = 0.002264

PSI	NORMAL BENDING MOMENT .3R	.5R	.6R	.7R	PITCH LINK LOAD	EDGEWISE BENDING MOMENT .5R	.6R	.7R
0.00	1974.	-8446.	2449.	1333.	352.	-2517.	4802.	6997.
11.25	2710.	-8453.	2797.	2800.	358.	-1568.	4963.	5453.
22.50	2471.	-8530.	3360.	3900.	494.	-3658.	2060.	2224.
33.75	1647.	-8571.	3542.	3966.	530.	-6809.	-1138.	-259.
45.00	1092.	-8024.	2747.	2892.	490.	-7793.	-1709.	-475.
56.25	307.	-7116.	1315.	826.	476.	-5900.	999.	2428.
67.50	510.	-6253.	-110.	-1227.	464.	-2221.	5855.	6987.
78.75	29.	-5547.	-864.	-2040.	396.	1342.	9586.	9736.
90.00	-709.	-5380.	-906.	-2259.	301.	2402.	10308.	10482.
101.25	-1134.	-5453.	-1228.	-3054.	172.	2099.	11028.	11867.
112.50	-951.	-4685.	-2146.	-3623.	-2.	4029.	13721.	13349.
123.75	-1368.	-3640.	-2572.	-3265.	-151.	6827.	15337.	13189.
135.00	-3058.	-3865.	-2145.	-3053.	-235.	6948.	14867.	13281.
146.25	-4447.	-4519.	-1911.	-3361.	-241.	6675.	15548.	15082.
157.50	-3661.	-3819.	-2535.	-3628.	-106.	8686.	17695.	16403.
168.75	-1439.	-2684.	-3520.	-4315.	115.	9406.	18176.	16020.
180.00	331.	-3068.	-3729.	-5341.	247.	6100.	15916.	15144.
191.25	804.	-4766.	-2406.	-5014.	246.	1570.	12146.	13943.
202.50	564.	-6304.	-339.	-2703.	162.	-1618.	8294.	11336.
213.75	669.	-7072.	1196.	493.	-3.	-3864.	4993.	6816.
225.00	1084.	-7645.	2466.	3522.	-172.	-6824.	904.	1153.
236.25	1392.	-8757.	4017.	5371.	-213.	-11868.	-4700.	-3358.
247.50	1901.	-9883.	4859.	5414.	-123.	-16402.	-8375.	-4639.
258.75	2915.	-9811.	4291.	4575.	30.	-14973.	-6342.	-2648.
270.00	3503.	-8879.	3302.	3892.	181.	-7930.	-76.	1643.
281.25	2758.	-8407.	2816.	3228.	216.	-2122.	5229.	6031.
292.50	1241.	-8287.	2665.	2643.	119.	-1720.	5586.	6619.
303.75	155.	-7629.	2293.	2426.	47.	-5211.	1618.	2567.
315.00	47.	-6694.	1370.	1989.	80.	-9249.	-1942.	-1464.
326.25	517.	-6380.	499.	1014.	159.	-10843.	-1966.	-1464.
337.50	864.	-6961.	748.	264.	252.	-9051.	104.	1752.
348.75	1179.	-7919.	1793.	365.	329.	-5573.	2533.	5389.

RUN 26 POINT 17
TAPERED TIP

V/GR = 0.376 ALPS,U = -10.0 CLR/S = 0.07073 CP/S = 0.008083
MAT = 0.825 THETA = 14.0 CXR/S = 0.01205 RHO = 0.002247

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	-560.9		-6609.0		695.8		141.6	
1	-46.1	-48.7	9.9	103.8	36.3	-174.6	108.4	-307.4
2	-10.5	15.5	-0.6	60.4	24.2	-133.3	36.5	-245.9
3	-71.3	-33.8	52.8	23.5	-26.7	2.8	26.3	25.6
4	22.3	-5.7	2.8	-2.9	-14.8	17.1	-45.5	33.4
5	-6.0	144.4	-3.9	-2.3	0.6	-85.1	-0.4	-190.4
6	-1.3	22.4	-1.6	6.0	-1.9	-19.2	-6.5	-26.5
7	73.5	33.0	74.4	32.9	-86.8	-23.6	-22.1	10.6
8	21.7	-13.4	29.7	-33.6	-16.3	14.3	17.5	-31.9
9	-5.9	11.0	-19.9	11.7	-1.9	-0.1	-35.8	17.6
10	6.3	6.6	6.2	-4.6	8.5	-13.3	18.8	-20.8

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	217.5		-3932.4		4574.1		5538.2	
1	15.4	17.5	-16.7	230.0	-100.6	348.6	-158.2	403.9
2	-2.9	8.5	-20.2	65.3	-72.2	240.7	-55.2	302.5
3	-1.2	-1.6	92.6	7.3	51.2	-50.3	-68.3	-54.4
4	3.6	3.3	26.5	1.2	51.6	-20.1	101.2	-28.0
5	-11.4	2.9	-738.4	482.3	-676.7	543.1	-553.2	575.5
6	0.7	-2.4	-11.5	-39.5	-9.0	0.2	0.9	-3.6
7	1.7	2.1	162.2	78.1	194.6	65.9	22.6	-32.0
8	0.8	-2.1	61.8	-41.8	26.5	-10.0	-25.0	88.1
9	-1.2	0.9	-38.6	42.9	-1.9	15.1	54.8	-12.4
10	0.4	-0.7	23.0	36.0	-11.0	89.3	-11.0	88.1

RUN 26 POINT 17
TAPERED TIP

V/OR = 0.376 ALFS,U = -10.0 CLR/S = 0.07073 CP/S = 0.008083
MAT = 0.825 THETA = 14.0 CXR/S = 0.01205 PHO = 0.002247

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	-569.	-6459.	617.	235.	283.	-4391.	4027.	4847.
11.25	-497.	-6477.	520.	-61.	294.	-3773.	4871.	5783.
22.50	-613.	-6548.	597.	-112.	308.	-3355.	5213.	6249.
33.75	-684.	-6524.	603.	-68.	316.	-3130.	5337.	6336.
45.00	-661.	-6445.	504.	-74.	313.	-3366.	5179.	6042.
56.25	-642.	-6446.	481.	-128.	304.	-4168.	4476.	5434.
67.50	-555.	-6544.	500.	-293.	294.	-4713.	4166.	5390.
78.75	-478.	-6594.	449.	-438.	294.	-4265.	4742.	6130.
90.00	-401.	-6524.	395.	-456.	304.	-3246.	5638.	6733.
101.25	-480.	-6408.	453.	-215.	311.	-2660.	5951.	6722.
112.50	-667.	-6511.	591.	52.	299.	-3054.	5420.	6112.
123.75	-651.	-6556.	746.	310.	275.	-4052.	4241.	5035.
135.00	-811.	-6566.	796.	372.	253.	-4711.	3504.	4490.
146.25	-596.	-6596.	665.	83.	244.	-4499.	4048.	5173.
157.50	-393.	-6603.	549.	-151.	257.	-3719.	5023.	6071.
168.75	-354.	-6594.	635.	-30.	277.	-3114.	5357.	6310.
180.00	-474.	-6585.	774.	82.	277.	-3314.	5093.	6251.
191.25	-588.	-6767.	778.	30.	262.	-4156.	4510.	5867.
202.50	-542.	-6643.	690.	105.	256.	-4681.	3983.	5056.
213.75	-438.	-6539.	621.	189.	258.	-4516.	4047.	4811.
225.00	-464.	-6620.	630.	11.	256.	-4147.	4579.	5570.
236.25	-532.	-6744.	677.	-123.	258.	-3745.	5043.	6273.
247.50	-492.	-6620.	663.	64.	268.	-3248.	5318.	6155.
258.75	-485.	-6492.	670.	364.	272.	-3373.	5009.	5433.
270.00	-622.	-6638.	873.	577.	263.	-4425.	3851.	4626.
281.25	-684.	-6859.	1096.	639.	254.	-5229.	3004.	4340.
292.50	-511.	-6864.	1040.	585.	258.	-4873.	3494.	4724.
303.75	-293.	-6725.	846.	498.	268.	-3937.	4509.	5252.
315.00	-312.	-6698.	848.	526.	276.	-3364.	4934.	5546.
326.25	-570.	-6784.	1011.	652.	277.	-3564.	4601.	5417.
337.50	-628.	-6777.	1063.	722.	275.	-4302.	3824.	4750.
348.75	-792.	-6605.	882.	584.	277.	-4738.	3431.	4292.

RUN 25 POINT 19
TAPERED TIP

V/CR = 0.375 ALFS,U = 0.0 CLR/S = 0.10092 CP/S = 0.005039
MAT = 0.827 THETA = 12.0 CXR/S = 0.00149 RHC = 0.002229

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	165.9		-6258.4		270.4		-736.1	
1	1538.0	-1380.2	-1844.3	1763.8	2164.2	-2197.6	2744.8	-2924.0
2	-634.0	1527.8	967.2	-1566.4	-1156.6	2006.7	-1557.2	2404.0
3	43.7	132.5	-337.2	-564.6	381.2	847.4	429.8	1203.4
4	67.5	749.6	108.4	-132.9	-448.2	-46.4	-960.5	-548.1
5	-205.5	136.9	-210.8	-27.2	61	-8.7	-280.6	51.8
6	44.4	446.0	-23.4	27.6	62	-286.8	-47.9	-479.1
7	-507.3	314.2	-540.3	191.2	483.	-289.6	-14.3	-96.0
8	110.8	55.9	132.3	44.3	-66.4	-94.8	57.3	-2.0
9	-38.2	126.5	-59.5	187.1	56.2	-58.0	14.3	143.1
10	-56.2	20.3	-67.1	-6.6	112.9	9.3	23.4	24.9

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	134.5		-1538.7		7609.8		3048.0	
1	187.1	174.0	-5634.3	6429.7	-6480.1	6126.3	-5207.9	4972.2
2	76.1	149.1	3823.9	-5465.3	3812.6	-6177.5	3003.8	-4596.2
3	-52.7	-12.1	-2597.7	1096.2	-2195.6	321.4	-1464.1	62.0
4	142.9	45.8	1687.8	3532.9	2101.6	3561.1	2268.7	3490.9
5	5.1	-93.0	194.3	-848.6	537.9	-607.1	1182.5	-608.1
6	-50.5	-104.4	184.5	-1315.6	96.1	-797.5	361.8	-717.4
7	-62.2	-38.7	-1244.3	457.1	-1179.1	558.0	-171.1	-27.7
8	-28.6	-17.3	-98.7	-204.3	-269.9	-306.0	-616.5	-424.8
9	1.8	-4.6	-196.4	756.9	-256.9	445.7	-145.6	67.2
10	14.9	7.4	-368.9	173.7	-497.5	275.8	-249.2	308.2

RUN 25 POINT 19
TAPERED TIP

V/CR = 0.375 ALFS,D = 0.0 CLR/S = 0.10092 CP/S = 0.005039
MAT = 0.827 THETA = 12.0 CXR/S = 0.00049 RHO = 0.002229

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1173.	-8133.	1922.	-367.	368.	-5788.	3279.	2010.
11.25	3413.	-7855.	1501.	268.	296.	-2887.	6003.	2452.
22.50	3575.	-7973.	2026.	1647.	472.	-2359.	5711.	1047.
33.75	1832.	-8516.	3538.	3423.	645.	-4004.	2142.	-1703.
45.00	407.	-8306.	3769.	3941.	556.	-4471.	618.	-3045.
56.25	139.	-7483.	2231.	2073.	388.	-5348.	1083.	-2596.
67.50	473.	-6534.	296.	-748.	385.	-6182.	2680.	-576.
78.75	687.	-5350.	-1274.	-2780.	410.	-3310.	6804.	2744.
90.00	-0.	-4597.	-2085.	-3854.	329.	1196.	11116.	6000.
101.25	-1302.	-4613.	-2237.	-4743.	239.	4504.	14305.	9494.
112.50	-1925.	-4023.	-2859.	-5370.	127.	8770.	18866.	13210.
123.75	-2145.	-2661.	-3957.	-5538.	-69.	12113.	21963.	13865.
135.00	-3430.	-2435.	-4034.	-5546.	-213.	10088.	19677.	11511.
146.25	-5047.	-3283.	-3360.	-5574.	-197.	7389.	17459.	11071.
157.50	-4727.	-3053.	-3546.	-5559.	-86.	10296.	20255.	13079.
168.75	-2468.	-1929.	-4382.	-5730.	71.	14383.	23395.	13985.
180.00	-488.	-2148.	-4373.	-6155.	210.	13168.	23426.	13623.
191.25	34.	-4012.	-3002.	-5883.	231.	7981.	18420.	12684.
202.50	-50.	-5837.	-910.	-3867.	157.	2378.	12876.	9402.
213.75	320.	-6742.	889.	-609.	50.	-3376.	6560.	3367.
225.00	958.	-7353.	2141.	2438.	-108.	-10131.	-350.	-3772.
236.25	1395.	-8399.	3532.	4465.	-250.	-16650.	-7320.	-9652.
247.50	1748.	-9536.	4773.	5219.	-255.	-19268.	-10256.	-11116.
258.75	2505.	-9819.	4635.	4735.	-124.	-15750.	-6227.	-7819.
270.00	3127.	-9191.	3559.	3819.	87.	-8374.	945.	-2834.
281.25	2776.	-8585.	3041.	3138.	237.	-1803.	6504.	2154.
292.50	1619.	-8461.	2915.	2224.	80.	-418.	8310.	4963.
303.75	640.	-8118.	2128.	954.	-293.	-4852.	5127.	1818.
315.00	426.	-5846.	733.	293.	-383.	-8786.	1008.	-4045.
326.25	376.	-5482.	-302.	351.	-7.	-7129.	1977.	-4620.
337.50	-271.	-5708.	9.	158.	426.	-4739.	4596.	-692.
348.75	-491.	-7287.	1345.	-328.	526.	-5879.	3564.	1524.

RUN 39 POINT 26
RECTANGULAR TIP

V/OR =	0.201	ALFS,U =	10.0	CLR/S = 0.11314	CP/S = -0.000439
MAT =	0.717	THETA =	8.0	CXR/S = -0.02297	RHO = 0.002333

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	-137.8		-6048.0		61.1		-1869.8	
1	461.9	-1150.3	-555.0	1121.8	565.4	-1121.8	666.6	-1158.8
2	-585.5	140.4	921.8	-154.6	-1301.4	196.2	-1954.3	334.7
3	204.3	-61.8	-166.0	-283.8	203.6	480.3	105.8	847.8
4	-109.1	-244.7	68.1	44.8	63.6	29.4	248.9	158.9
5	83.6	-158.4	39.9	-4.1	-23.2	-4.0	17.8	-30.4
6	87.1	35.0	27.4	-27.2	-38.4	-47.4	-5.9	-131.7
7	133.3	56.6	133.3	79.1	-137.9	-89.0	-2.3	-7.3
8	-74.4	100.5	-117.5	137.7	86.0	-135.7	-61.5	35.9
9	-19.1	14.5	-22.2	24.9	20.7	-43.7	-8.5	-3.4
10	6.1	-8.6	8.9	-13.7	-13.5	-18.2	0.7	-20.5

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	263.6		-1968.2		1519.1		5282.6	
1	27.2	175.5	-3423.8	4238.4	-2901.3	3391.6	-2122.4	2274.3
2	31.2	-8.6	3588.9	-1202.8	4122.9	-1212.1	3508.9	-1254.9
3	95.4	-48.8	-1477.1	-615.5	-1443.2	-1052.6	-969.1	-1308.3
4	13.3	-16.1	937.6	-185.8	538.6	-326.0	124.9	-555.5
5	12.5	43.3	558.7	1847.8	438.8	1628.2	303.8	1352.4
6	13.3	8.6	-0.8	282.3	3.7	396.6	-67.2	428.5
7	12.9	12.3	711.5	247.3	674.3	256.5	327.5	-6.5
8	0.3	7.5	-239.9	332.0	-233.1	308.6	72.2	-26.5
9	2.7	3.1	84.1	192.2	95.7	260.0	154.7	159.3
10	-1.5	3.0	19.3	-152.5	16.0	-154.7	-62.4	-218.2

RUN 39 POINT 26
RECTANGULAR TIP

V/CR = 0.201 ALFS,U = 10.0 CLR/S = 0.11314 CP/S = -0.000439
MAT = 0.717 THETA = 8.0 CXR/S = -0.02297 RHO = 0.002333

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	51.	-5709.	-514.	-2862.	471.	-1160.	2831.	6954.
11.25	-341.	-5539.	-612.	-2384.	482.	197.	3790.	6582.
22.50	-918.	-5889.	-50.	-1875.	364.	-1828.	1577.	5035.
33.75	-1126.	-6291.	403.	-1634.	252.	-4608.	-1167.	3236.
45.00	-577.	-6042.	79.	-1582.	245.	-4826.	-1308.	2483.
56.25	57.	-5922.	-390.	-1574.	300.	-2743.	551.	3189.
67.50	-127.	-5588.	-261.	-1717.	365.	-849.	1953.	4591.
78.75	-837.	-5947.	105.	-1890.	435.	493.	2816.	6142.
90.00	-1113.	-5708.	3.	-1796.	490.	1819.	3758.	6801.
101.25	-931.	-5143.	-421.	-1672.	507.	1571.	3386.	5461.
112.50	-919.	-5132.	-542.	-1991.	482.	-667.	1568.	3981.
123.75	-1128.	-5463.	-446.	-2649.	422.	-1702.	1157.	4988.
135.00	-1179.	-5311.	-750.	-3226.	365.	867.	3813.	7665.
146.25	-1173.	-4715.	-1406.	-3604.	342.	5551.	8101.	10387.
157.50	-1424.	-4352.	-1780.	-3908.	315.	8984.	11387.	12793.
168.75	-1750.	-4424.	-1771.	-4217.	245.	8784.	11492.	13362.
180.00	-1678.	-4569.	-1771.	-4421.	170.	5933.	9103.	11565.
191.25	-1098.	-4599.	-1801.	-4292.	140.	3599.	7294.	9969.
202.50	-338.	-4868.	-1472.	-3784.	154.	1963.	6144.	9126.
213.75	99.	-5697.	-595.	-2997.	190.	-1190.	3119.	6941.
225.00	565.	-6707.	538.	-1887.	228.	-4841.	-724.	4174.
236.25	1206.	-7384.	1472.	-509.	225.	-6769.	-2799.	2452.
247.50	1709.	-7852.	2156.	775.	162.	-8371.	-4534.	370.
258.75	1728.	-8303.	2790.	1741.	65.	-10730.	-7261.	-2353.
270.00	1460.	-8403.	3125.	2350.	-21.	-11475.	-8394.	-3400.
281.25	1220.	-8041.	2798.	2279.	-52.	-9645.	-6558.	-2204.
292.50	1003.	-7654.	2082.	1213.	-10.	-7125.	-3584.	477.
303.75	818.	-7358.	1328.	-484.	76.	-5020.	-712.	4148.
315.00	779.	-6874.	466.	-2026.	164.	-3983.	1209.	6598.
326.25	762.	-6340.	-238.	-2916.	225.	-4851.	856.	6214.
337.50	566.	-6109.	-332.	-3179.	275.	-5934.	-493.	5310.
348.75	289.	-6003.	-240.	-3115.	363.	-4428.	241.	6010.

RUN 39 POINT 5
RECTANGULAR TIP

V/OR = 0.201 ALFS,U = -2.5 CLR/S = 0.07375 CP/S = 0.002871
MAT = 0.718 THETA = 8.0 CXR/S = 0.00182 RHO = 0.002356

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	27.2		-6457.1		484.7		-1191.2	
1	328.4	-781.5	-340.6	1023.5	380.8	-1188.5	601.2	-1484.6
2	-274.1	186.6	566.1	-188.1	-830.0	208.0	-1406.7	209.2
3	51.7	237.8	78.8	-484.8	-127.0	749.5	-256.5	1201.0
4	-196.5	-59.8	108.3	-68.3	-31.7	107.5	130.0	182.1
5	-26.2	52.0	-14.7	-46.1	51.9	-8.4	71.2	-146.6
6	-72.6	122.1	-53.6	19.0	123.3	-96.8	176.7	-141.3
7	70.7	62.3	75.6	91.8	-97.8	-103.6	-27.7	-18.9
8	9.9	135.9	-10.3	196.0	-75.3	-165.2	-128.2	59.2
9	37.8	32.5	19.9	57.8	-45.0	-43.3	-29.0	26.8
10	25.4	-7.7	81.7	-13.8	120.0	-10.6	242.7	-20.4

	PITCH LINK LOAD		BLADE EDGEWISE BENDING MOMENT					
			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	200.0		-3258.0		2032.1		5475.9	
1	38.8	143.1	-1518.3	4350.8	-1510.8	3953.4	-883.3	1523.6
2	32.7	25.9	1811.1	-776.9	2273.9	-808.2	2128.6	-1196.3
3	29.0	-23.0	-815.3	-823.0	-605.5	-1367.0	-998.4	-1753.0
4	-10.2	-17.7	-207.0	851.5	-329.5	736.1	-303.5	715.6
5	-0.5	8.3	-1372.2	1610.3	-1305.5	1576.7	-958.7	1524.2
6	-5.2	-8.0	-323.4	138.4	-432.2	282.8	-111.5	217.8
7	3.9	8.6	202.0	100.2	208.3	111.9	196.2	-235.7
8	-1.3	13.2	-55.5	400.8	56.2	326.1	151.4	-321.5
9	-0.4	-0.2	162.3	90.1	243.1	66.1	-30.3	80.5
10	1.1	-3.1	235.8	-69.5	-121.7	-51.3	-29.2	154.9

RUN 39 POINT 5
RECTANGULAR TIP

V/CR =	0.201	ALFS,U =	-2.5	CLR/S =	0.07375	CP/S =	0.002871
MAT =	0.718	THETA =	8.0	CXR/S =	0.00182	RHO =	0.002356

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	-19.	-5946.	-46.	-1817.	288.	-5138.	508.	4637.
11.25	341.	-6060.	-92.	-1626.	314.	-2180.	3313.	5521.
22.50	234.	-6694.	617.	-1239.	313.	-541.	4556.	6109.
33.75	103.	-6966.	1176.	-638.	304.	-458.	3958.	5989.
45.00	139.	-6631.	695.	-668.	322.	-2012.	2559.	4532.
56.25	40.	-6143.	207.	-871.	350.	-3562.	1122.	2558.
67.50	-332.	-5938.	226.	-1134.	340.	-3306.	1122.	3041.
78.75	-710.	-5896.	-228.	-2252.	313.	-1314.	3721.	6220.
90.00	-835.	-5525.	-922.	-2989.	326.	1530.	6890.	8453.
101.25	-840.	-5103.	-846.	-2372.	342.	3205.	7624.	8090.
112.50	-924.	-5356.	-463.	-2024.	303.	1672.	6060.	6805.
123.75	-861.	-5838.	-382.	-2444.	250.	-1114.	4240.	5729.
135.00	-556.	-5742.	-336.	-2360.	241.	-1504.	3639.	5297.
146.25	-339.	-5499.	-413.	-2247.	250.	186.	4917.	6280.
157.50	-560.	-5611.	-601.	-2693.	231.	1613.	6844.	8250.
168.75	-915.	-5681.	-447.	-2696.	188.	2124.	7245.	9749.
180.00	-944.	-5584.	-372.	-2536.	146.	1545.	6449.	9986.
191.25	-605.	-5506.	-732.	-2985.	128.	-171.	5752.	9014.
202.50	-192.	-5788.	-627.	-2981.	136.	-2281.	4197.	7577.
213.75	101.	-6255.	146.	-2233.	152.	-4431.	1604.	6333.
225.00	442.	-6972.	776.	-1571.	157.	-6171.	-8.	4811.
236.25	936.	-7467.	1433.	-369.	135.	-6972.	-965.	2891.
247.50	1254.	-7792.	2359.	1371.	76.	-8292.	-3312.	1365.
258.75	1235.	-8246.	2822.	2188.	15.	-10886.	-5970.	-164.
270.00	1159.	-8381.	2850.	2584.	-5.	-12018.	-6812.	-1781.
281.25	1030.	-8162.	3163.	3338.	-10.	-10459.	-6106.	-842.
292.50	712.	-8223.	3143.	2720.	-17.	-8254.	-3964.	3669.
303.75	633.	-8054.	2053.	461.	21.	-5638.	36.	8021.
315.00	910.	-5958.	630.	-1199.	115.	-2740.	3481.	9083.
326.25	741.	-6049.	-164.	-1924.	196.	-2905.	3209.	7723.
337.50	-54.	-6173.	-184.	-2505.	230.	-6232.	305.	5780.
348.75	-432.	-6290.	59.	-2390.	253.	-7553.	-1185.	4502.

RUN 39 POINT 13
RECTANGULAR TIP

V/OR = 0.201 ALFS,U = -5.0 CLR/S = 0.11756 CP/S = 0.007014
MAT = 0.720 THETA = 13.0 CXR/S = 0.00347 RHO = 0.002342

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	987.0		-7170.4		1402.4		-51.6	
1	472.9	-704.3	-245.5	1136.1	112.7	-1374.1	308.0	-1718.2
2	82.4	102.0	297.6	69.1	-495.3	-150.7	-1297.6	-524.4
3	-553.5	269.9	613.3	-389.3	-771.8	636.4	-907.9	1130.9
4	-235.0	-276.3	205.3	16.5	-108.8	97.6	95.7	270.3
5	22.9	125.4	-31.1	-61.5	44.4	-7.3	60.6	-198.4
6	-218.6	-69.9	-139.7	-104.2	319.6	66.4	312.1	42.3
7	29.3	54.4	71.6	38.9	-24.0	-29.1	79.1	-59.7
8	-130.6	37.8	-245.9	32.7	39.7	-110.2	-272.6	-85.7
9	-14.7	22.5	-64.1	-3.9	55.7	-77.5	-89.7	-45.6
10	21.3	21.0	79.6	81.8	108.5	174.6	213.9	245.4

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	180.0		-4190.1		-2393.1		4189.3	
1	97.0	272.6	-311.2	5596.8	-79.2	4996.5	-286.8	2924.7
2	117.4	95.5	1926.8	-109.2	2209.1	-81.6	2850.9	447.1
3	-15.4	5.4	-712.5	-1333.8	-203.2	-1863.5	-419.2	-2368.0
4	-15.7	-44.9	-359.3	2037.7	-580.8	1695.9	-591.3	1343.7
5	-45.3	-7.8	-2335.9	-476.4	-1891.8	-232.1	-1360.4	57.6
6	-8.9	8.0	-754.0	-424.7	-1035.7	-385.5	-606.1	-353.4
7	6.3	12.3	-106.2	435.8	-243.7	348.3	-278.6	278.2
8	-11.9	-5.5	-493.3	124.0	-54.3	225.3	394.8	-30.6
9	-2.8	-5.8	-163.3	45.3	-200.9	202.9	-45.6	242.6
10	-0.4	8.2	161.3	153.3	-203.4	-358.7	-331.0	-123.4

RUN 39 POINT 13
RECTANGULAR TIP

V/OR = 0.231 ALFS,U = -5.0 CLR/S = 0.11756 CP/S = 0.007014
MAT = 0.720 THETA = 13.0 CXR/S = 0.00847 RHO = 0.002342

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	437.	-6680.	683.	-1550.	300.	-7305.	-4677.	3516.
11.25	840.	-6544.	525.	-1336.	403.	-3486.	-1451.	5332.
22.50	1349.	-6670.	461.	-1190.	511.	826.	2668.	7363.
33.75	1566.	-7060.	1235.	-541.	573.	2386.	3094.	7716.
45.00	1581.	-7370.	1574.	-197.	583.	944.	1509.	7006.
56.25	1489.	-7230.	1145.	-262.	553.	-1580.	-220.	4872.
67.50	1159.	-6754.	1055.	-215.	492.	-3267.	-2385.	2690.
78.75	520.	-6447.	614.	-1129.	391.	-3132.	-1916.	4096.
90.00	-130.	-6026.	-666.	-2490.	286.	-310.	2425.	7394.
101.25	-533.	-5192.	-930.	-1947.	251.	3864.	5224.	7925.
112.50	-825.	-5079.	46.	-679.	251.	4752.	3981.	6780.
123.75	-898.	-6135.	442.	-943.	201.	798.	1793.	6058.
135.00	-246.	-6791.	426.	-1173.	164.	-3436.	-663.	4000.
146.25	899.	-6523.	850.	-465.	215.	-4476.	-2964.	1950.
157.50	1482.	-6602.	1107.	-549.	270.	-3424.	-2518.	3579.
168.75	1117.	-7146.	1322.	-905.	257.	-1690.	-237.	6894.
180.00	522.	-7269.	1849.	-450.	221.	-107.	561.	8297.
191.25	436.	-7023.	1620.	-613.	173.	-4.	686.	8567.
202.50	729.	-6803.	788.	-1435.	97.	-1554.	748.	8577.
213.75	990.	-6837.	349.	-1508.	27.	-4451.	-1478.	7341.
225.00	977.	-7363.	1443.	-1285.	-24.	-8654.	-5351.	4698.
236.25	1021.	-7845.	1762.	-545.	-60.	-12083.	-8489.	882.
247.50	1288.	-7800.	2416.	1066.	-63.	-12739.	-10695.	-2838.
258.75	1491.	-8063.	3203.	3403.	-86.	-12336.	-11409.	-3988.
270.00	1631.	-8869.	3467.	3577.	-197.	-12437.	-10420.	-3236.
281.25	1938.	-9164.	3922.	4382.	-301.	-11892.	-10004.	-3062.
292.50	2136.	-9079.	4547.	5269.	-271.	-10573.	-10010.	-2168.
303.75	2023.	-9314.	4107.	3625.	-141.	-9211.	-7472.	1238.
315.00	2032.	-8962.	2761.	976.	13.	-6138.	-3020.	4997.
326.25	2139.	-7579.	1444.	-312.	161.	-2872.	-124.	6803.
337.50	1670.	-6607.	484.	-1099.	248.	-3520.	-503.	6372.
348.75	783.	-6622.	328.	-1727.	263.	-6878.	-3323.	4405.

RUN 39 POINT 22
RECTANGULAR TIP

V/OR = 0.202 ALFS,U = 0.0 CLR/S = 0.12485 CP/S = 0.004916
MAT = 0.716 THETA = 12.0 CXR/S = -0.00228 RHO = 0.002333

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	696.9		-6735.5		920.5		-3$1.4	
1	439.9	-696.7	-111.6	994.1	106.6	-1164.3	380.8	-1461.3
2	-214.7	145.7	651.6	-95.5	-951.5	19.0	-1822.4	-239.2
3	-299.0	301.1	461.1	-492.9	-595.0	781.1	-861.8	1220.7
4	-209.9	-103.0	120.0	-36.1	-84.2	-8.8	26.7	47.6
5	111.6	192.4	-67.0	-51.1	-19.8	-77.7	-132.9	-343.7
6	-138.3	217.5	-142.3	124.1	186.3	-199.0	167.2	-114.0
7	-12.6	253.1	-1.6	300.3	15.9	-326.1	34.6	-62.5
8	-45.6	180.5	-109.4	233.8	-24.6	-189.5	-174.6	37.7
9	44.5	62.8	8.5	128.7	-31.1	-46.9	-59.1	91.4
10	52.3	55.3	121.3	60.0	216.3	-42.0	331.5	38.3

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	210.5		-2985.5		-359.8		4918.8	
1	83.6	243.2	-128.1	4734.2	-271.4	4063.7	-592.3	2462.7
2	115.2	79.4	3029.2	-694.2	3369.7	-571.3	3939.3	26.9
3	34.4	3.8	-843.7	-1171.8	-466.5	-1825.3	-184.2	-2096.9
4	-20.6	-15.6	-360.2	2040.6	-417.6	2031.4	-183.4	1440.2
5	-35.5	5.3	-3339.7	1174.6	-2769.0	1269.4	-1946.1	1406.0
6	-31.0	-5.4	-533.1	179.5	-558.9	236.4	-276.7	-162.9
7	-3.1	18.8	-203.6	1293.0	-321.6	1311.7	-358.6	625.1
8	-17.1	7.2	-96.8	476.3	186.3	242.4	428.3	-120.9
9	-12.3	-13.7	145.5	355.1	147.1	91.2	262.6	-93.0
10	3.5	-20.2	216.4	249.7	-625.8	116.5	-646.7	121.8

RUN 39 POINT 22
RECTANGULAR TIP

V/UR = 0.202 ALFS,U = 0.0 CLR/S = 0.12485 CP/S = 0.004916
MAT = 0.716 THETA = 12.0 CXR/S = -0.00228 RHO = 0.002333

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	395.	-5805.	-261.	-2501.	328.	-5100.	-2088.	5361.
11.25	1418.	-5275.	-1056.	-2472.	444.	1437.	4196.	8510.
22.50	1213.	-6173.	-129.	-1800.	612.	4041.	6687.	9982.
33.75	704.	-7155.	1549.	-295.	594.	3149.	4084.	8335.
45.00	753.	-7208.	1637.	458.	476.	506.	1348.	5618.
56.25	1007.	-6730.	974.	432.	464.	-3069.	-1215.	2295.
67.50	1003.	-6336.	789.	101.	433.	-4929.	-3187.	815.
78.75	522.	-6278.	259.	-1153.	309.	-3583.	-1067.	3897.
90.00	-234.	-6091.	-383.	-2087.	297.	-12.	3162.	7395.
101.25	-668.	-5481.	-280.	-1389.	371.	3976.	5349.	7792.
112.50	-686.	-5297.	-190.	-908.	323.	4899.	5843.	7695.
123.75	-550.	-5859.	-235.	-1409.	235.	847.	3745.	6581.
135.00	-103.	-6163.	286.	-1279.	248.	-3899.	-1215.	2956.
146.25	507.	-6096.	567.	-1028.	279.	-4228.	-2661.	2381.
157.50	599.	-6241.	299.	-1532.	273.	-740.	1679.	7034.
168.75	178.	-6428.	550.	-1495.	253.	2838.	5191.	10643.
180.00	-114.	-6384.	786.	-1224.	194.	3639.	5275.	10998.
191.25	-32.	-6341.	175.	-1946.	140.	1207.	4344.	10370.
202.50	320.	-6245.	-109.	-2375.	147.	-2086.	2086.	8392.
213.75	728.	-6336.	324.	-2009.	138.	-4585.	-696.	6453.
225.00	936.	-7041.	675.	-1817.	78.	-7198.	-2242.	6066.
236.25	1062.	-7696.	1512.	-538.	36.	-9641.	-5083.	3273.
247.50	1305.	-7840.	2838.	2100.	-16.	-10742.	-9048.	-1956.
258.75	1517.	-8176.	3205.	3435.	-83.	-11498.	-9664.	-3731.
270.00	1718.	-8620.	3104.	3656.	-127.	-12298.	-8714.	-3100.
281.25	1907.	-8673.	3822.	4602.	-187.	-11903.	-9794.	-3925.
292.50	1712.	-8934.	4172.	4405.	-233.	-10246.	-8675.	-2346.
303.75	1486.	-8968.	3015.	2056.	-139.	-6467.	-2616.	3382.
315.00	1859.	-7427.	1322.	268.	51.	-297.	3085.	7482.
326.25	1817.	-5723.	134.	-491.	193.	2148.	3925.	7688.
337.50	474.	-5943.	-111.	-1725.	282.	-3305.	245.	6308.
348.75	-455.	-6555.	213.	-2503.	320.	-8395.	-3797.	4757.

RUN 40 POINT 5
RECTANGULAR TIP

V/CR = 0.300 ALFS,U = -5.0 CLR/S = 0.07167 CP/S = 0.004164
MAT = 0.761 THETA = 10.0 CXR/S = 0.00534 RHO = 0.002286

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	173.5		-7096.4		562.9		-1577.3	
1	792.3	-1106.2	-1240.8	1625.8	1401.1	-1670.0	1757.4	-2180.3
2	-127.6	810.4	444.9	-727.6	-611.6	691.5	-897.2	840.5
3	322.5	15.2	-369.8	-365.7	379.7	478.4	400.9	634.1
4	147.4	214.7	-1.8	-186.6	-155.6	20.1	-300.9	52.2
5	152.5	-111.7	13.5	-54.1	-99.7	72.9	-285.6	110.3
6	9.7	47.1	18.0	11.0	-65.0	-12.0	23.5	-55.1
7	-189.8	-179.7	-181.4	-307.2	166.2	230.5	7.6	-59.2
8	31.6	-16.6	57.4	-22.9	-32.0	63.8	30.3	20.9
9	-36.3	1.2	-55.0	-28.4	-12.0	4.7	-69.6	-12.1
10	-22.0	9.1	-41.2	-19.6	-41.5	-30.5	-86.1	-88.4

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PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	PITCH LINK LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	101.4		-3317.6		1773.2		3821.4	
1	98.2	123.1	-3296.3	5401.7	-4186.8	5093.0	-3211.1	3788.1
2	16.2	62.6	1293.6	-1516.4	1688.8	-1593.9	1467.8	-1330.9
3	-49.2	-1.6	-1060.2	223.3	-1001.1	-195.7	-613.3	-184.8
4	28.2	32.4	-237.1	541.2	163.7	428.8	267.4	232.7
5	-6.8	6.2	554.7	-364.4	642.6	-817.8	684.5	-679.9
6	-8.9	-7.8	-42.9	-358.4	118.8	-292.2	-86.9	-141.2
7	-1.1	-12.1	-529.0	-379.9	-509.2	-323.2	-78.0	309.3
8	4.7	-3.9	205.8	-102.3	194.2	-253.2	100.3	-153.3
9	8.0	1.3	-229.2	24.0	-175.2	74.3	-96.6	37.7
10	6.1	4.0	-96.0	31.7	40.8	192.3	82.6	258.9

RUN 40 POINT 5
RECTANGULAR TIP

V/CR = 0.300 ALFS,U = -5.0 CLR/S = 0.07167 CP/S = 0.004164
MAT = 0.781 THETA = 10.0 CXR/S = 0.00534 RHO = 0.002286

	NO BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
PSI	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
0.00	1214.	-8493.	1492.	-997.	205.	-6754.	-1250.	2338.
11.25	1265.	-8787.	2083.	-468.	241.	-6623.	-1859.	2008.
22.50	1299.	-8279.	2052.	251.	287.	-4962.	-1385.	1223.
33.75	973.	-7727.	1516.	150.	360.	-3060.	308.	1704.
45.00	370.	-7462.	1208.	-459.	357.	-1633.	1825.	3116.
56.25	-146.	-7172.	889.	-1350.	285.	-1106.	2456.	4221.
67.50	-311.	-6586.	-77.	-2732.	266.	-1044.	3503.	5342.
78.75	-290.	-5751.	-1062.	-3656.	288.	-458.	4900.	6036.
90.00	-600.	-5246.	-1208.	-3545.	257.	214.	5151.	5747.
101.25	-1249.	-5444.	-966.	-3532.	186.	459.	5202.	6249.
112.50	-1546.	-5574.	-1110.	-3988.	111.	1697.	6944.	8181.
123.75	-1315.	-4955.	-1590.	-4164.	32.	4284.	9431.	9553.
135.00	-1304.	-4359.	-1942.	-4309.	-19.	5632.	10426.	9866.
146.25	-1881.	-4606.	-1874.	-4785.	-18.	4347.	9525.	10002.
157.50	-2342.	-5112.	-1663.	-4976.	14.	2582.	8427.	9810.
168.75	-1929.	-5062.	-1862.	-4789.	62.	2304.	8739.	9418.
180.00	-868.	-4785.	-2178.	-4613.	107.	2366.	9209.	8967.
191.25	16.	-5163.	-1718.	-4192.	106.	806.	7513.	7736.
202.50	451.	-6386.	-532.	-3307.	59.	-1677.	4624.	6318.
213.75	857.	-7547.	616.	-2073.	0.	-3932.	2399.	5164.
225.00	1370.	-8129.	1512.	-418.	-53.	-6363.	-437.	2331.
236.25	1615.	-8609.	2291.	1141.	-83.	-9610.	-4271.	-1658.
247.50	1528.	-9336.	2945.	1829.	-81.	-11811.	-6305.	-2895.
258.75	1454.	-9815.	3411.	1912.	-67.	-11263.	-5807.	-1341.
270.00	1505.	-9679.	3395.	1769.	-31.	-9222.	-4586.	-296.
281.25	1506.	-9116.	2725.	1263.	30.	-7541.	-3100.	-67.
292.50	1223.	-8444.	2050.	822.	60.	-6987.	-2152.	92.
303.75	549.	-8106.	1951.	693.	40.	-7951.	-3283.	-460.
315.00	-46.	-8199.	1969.	202.	27.	-9135.	-4600.	-696.
326.25	128.	-8038.	1585.	-528.	34.	-8171.	-3306.	533.
337.50	833.	-7515.	1094.	-760.	58.	-5985.	-1024.	1697.
348.75	1221.	-7624.	1014.	-859.	126.	-5646.	-476.	2044.

RUN 40 POINT 11
RECTANGULAR TIP

V/OR =	0.301	ALFS,U =	-10.0	CLR/S =	0.06949	CP/S =	0.006331
MAT =	0.779	THETA =	12.0	CXR/S =	0.01194	RHO =	0.002265

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	497.3		-7356.5		1066.0		-638.7	
1	800.8	-795.5	-1066.1	1349.5	1183.4	-1409.9	1508.7	-1901.9
2	-6.5	573.0	297.8	-472.0	-455.2	405.4	-805.0	423.8
3	113.7	203.8	-114.6	-381.1	122.9	502.0	152.1	601.7
4	146.4	229.0	36.2	-16.5	-181.2	-13.4	-326.8	27.2
5	38.1	-10.1	-12.0	-26.5	-21.0	4.3	-110.3	-23.8
6	-21.9	28.4	19.9	14.2	-34.9	-14.0	22.3	-16.3
7	-125.6	-81.5	-117.2	-123.9	110.1	81.3	6.4	-22.7
8	1.4	11.6	25.4	22.6	-4.5	1.5	38.6	13.3
9	5.7	12.9	-1.3	3.4	-43.8	-13.2	-38.7	-13.2
10	4.9	1.5	-1.8	-8.5	-28.0	-13.9	-29.6	-34.6

PITCH LINK LOAD / BLADE EDGEWISE BENDING MOMENT

	LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	84.9		-4007.5		1677.0		3026.1	
1	146.0	161.6	-1981.6	4989.8	-2926.8	4697.5	-2408.6	3514.1
2	43.4	63.6	690.2	-1111.7	1123.3	-1087.9	1147.1	-727.1
3	-61.3	33.4	-746.5	92.8	-624.7	-353.0	-443.0	-291.4
4	26.0	11.2	363.2	1512.0	657.4	1451.1	738.3	932.5
5	-28.6	3.3	283.0	-1618.5	331.1	-1425.9	362.7	-1051.1
6	-0.1	-3.8	-19.5	-309.1	7.1	-282.8	-122.8	-242.2
7	-1.3	-4.8	-213.6	-172.4	-214.4	-135.4	76.1	71.1
8	3.9	-1.4	-24.0	24.3	-72.7	-51.9	-49.2	-99.0
9	-2.7	-5.0	73.7	36.1	177.7	48.8	128.6	9.3
10	-0.3	-1.8	-4.7	26.3	46.9	97.6	26.6	138.4

RUN 40 POINT 11
RECTANGULAR TIP

V/OR = 0.301 ALFS,U = -10.0 CLR/S = 0.06949 CP/S = 0.006331
MAT = 0.779 THETA = 12.0 CXR/S = 0.01194 RHO = 0.002265

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1454.	-8490.	1714.	-221.	210.	-5587.	182.	2482.
11.25	1763.	-8671.	1991.	16.	289.	-5629.	-282.	1926.
22.50	1874.	-8542.	2118.	425.	389.	-4665.	-34.	1509.
33.75	1576.	-8278.	1949.	520.	445.	-2820.	1461.	2359.
45.00	928.	-8017.	1748.	251.	428.	-1458.	2562.	3369.
56.25	321.	-7652.	1378.	-402.	371.	-1380.	2646.	3601.
67.50	70.	-7063.	533.	-1467.	306.	-1776.	3132.	4042.
78.75	2.	-6392.	-318.	-2361.	248.	-1673.	4119.	4829.
90.00	-246.	-5979.	-604.	-2632.	203.	-847.	4893.	5357.
101.25	-652.	-5938.	-582.	-2674.	148.	796.	6370.	6440.
112.50	-886.	-5926.	-656.	-2733.	65.	2801.	8556.	7985.
123.75	-877.	-5687.	-736.	-2622.	-6.	3653.	9220.	8134.
135.00	-912.	-5531.	-686.	-2589.	-31.	2440.	7753.	7065.
146.25	-1118.	-5757.	-590.	-2930.	-16.	168.	6011.	6592.
157.50	-1191.	-6044.	-603.	-3303.	27.	-1451.	5212.	6656.
168.75	-829.	-6002.	-814.	-3387.	84.	-1517.	5510.	6633.
180.00	-211.	-5668.	-989.	-3258.	106.	-417.	6696.	7050.
191.25	247.	-6153.	-719.	-2908.	49.	205.	7384.	7548.
202.50	438.	-6895.	15.	-2228.	-55.	-1314.	5871.	6698.
213.75	592.	-7644.	852.	-1213.	-139.	-4901.	2184.	4056.
225.00	869.	-8107.	1549.	14.	-171.	-8885.	-2083.	415.
236.25	1157.	-8508.	2138.	1109.	-168.	-11632.	-5179.	-2527.
247.50	1297.	-9098.	2762.	1812.	-141.	-12271.	-6123.	-3081.
258.75	1379.	-9609.	3315.	2235.	-96.	-10652.	-5003.	-1607.
270.00	1584.	-9642.	3401.	2403.	-59.	-7821.	-2724.	-28.
281.25	1739.	-9318.	3029.	2217.	-47.	-6001.	-1009.	520.
292.50	1472.	-9031.	2752.	1936.	-30.	-6708.	-1590.	-161.
303.75	885.	-8857.	2667.	1709.	3.	-8809.	-3704.	-1500.
315.00	525.	-8614.	2361.	1231.	26.	-9677.	-4444.	-1895.
326.25	614.	-8275.	1894.	568.	42.	-8393.	-2941.	-683.
337.50	691.	-8056.	1643.	140.	87.	-6483.	-1027.	954.
348.75	1157.	-8164.	1600.	-96.	151.	-5534.	45.	2097.

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RUN 40 POINT 20
RECTANGULAR TIP

V/QR = 0.300 ALFS,U = 0.0 CLR/S = 0.11427 CP/S = 0.004649
MAT = 0.733 THETA = 12.0 CXR/S = 0.000109 RHO = 0.002247

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	492.9		-7126.2		618.6		-1841.9	
1	1048.7	-1139.3	-1534.1	1783.6	1644.8	-1838.7	1938.5	-2417.4
2	-220.3	862.7	744.7	-574.0	-984.9	569.0	-1570.3	749.6
3	300.1	9.3	-281.0	-523.2	314.6	664.2	317.3	836.6
4	342.0	88.1	-48.2	68.4	-282.2	96.8	-654.7	308.7
5	284.2	-163.1	-136.7	-25.6	-90.7	104.3	-546.5	236.0
6	154.2	64.6	39.4	-3.4	-116.5	66.4	-29.6	11.1
7	-241.5	-368.7	-287.5	-575.1	181.3	490.1	-54.9	-22.4
8	174.1	-100.6	284.2	-149.5	-182.6	219.1	89.0	7.2
9	19.4	-69.5	60.2	-102.1	-51.2	139.3	49.1	-37.0
10	-8.9	13.7	-38.5	-125.9	-158.5	-130.9	-165.3	-327.6

PITCH LINK LOAD — BLADE EDGEWISE BENDING MOMENT

			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	95.2		-2860.3		4159.3		4540.0	
1	110.5	225.3	-5245.5	6534.9	-5941.9	5767.6	-4259.3	4086.2
2	85.3	104.0	3027.9	-1407.2	3529.3	-1452.7	3175.4	-1273.7
3	-36.9	-17.2	-1390.2	162.7	-1213.6	-445.1	-619.9	-279.9
4	23.8	20.7	146.0	2892.9	920.3	2094.5	1229.9	1036.8
5	-14.7	11.0	-2275.0	918.8	-1739.2	657.3	-801.1	304.8
6	-41.1	-23.4	115.5	-264.2	435.1	-402.1	136.6	-210.0
7	-30.5	-18.3	-653.5	-850.0	-398.8	-956.1	89.2	133.2
8	-2.4	20.0	638.8	-421.7	527.2	-765.3	-67.8	-406.3
9	-3.1	7.0	-51.6	-339.8	-95.0	-406.2	-304.6	-118.9
10	-1.9	-35.2	-66.1	-265.3	334.6	190.0	264.5	376.1

RUN 40 POINT 20
RECTANGULAR TIP

V/OR =	0.300	ALFS,U =	0.0	CLR/S =	0.11427	CP/S =	0.004649
MAT =	0.783	THETA =	12.0	CXR/S =	0.00309	RHO =	0.002247

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	2345.	-8324.	893.	-2471.	189.	-8614.	517.	3383.
11.25	1560.	-9452.	2555.	-1513.	297.	-6014.	299.	4135.
22.50	1281.	-8380.	2633.	371.	490.	-46.	3592.	4308.
33.75	1333.	-6970.	1195.	634.	511.	2831.	6951.	4092.
45.00	836.	-7239.	1034.	-455.	410.	-945.	4130.	2693.
56.25	188.	-7880.	1564.	-1590.	371.	-6111.	-652.	1422.
67.50	337.	-7215.	235.	-3183.	328.	-6895.	309.	2578.
78.75	718.	-5718.	-1394.	-4212.	295.	-2811.	5069.	4732.
90.00	73.	-4942.	-1336.	-3675.	348.	2648.	8728.	6545.
101.25	-1224.	-5410.	-821.	-3448.	280.	5596.	11269.	9132.
112.50	-1722.	-5706.	-1016.	-3995.	54.	5989.	12531.	10711.
123.75	-1274.	-4737.	-1400.	-3938.	-21.	6008.	11768.	9356.
135.00	-1131.	-3946.	-1902.	-4331.	43.	5104.	10777.	8387.
146.25	-1886.	-4617.	-2136.	-5699.	27.	3141.	10639.	10001.
157.50	-2548.	-5354.	-1753.	-6035.	35.	3869.	11960.	12198.
168.75	-1939.	-4807.	-2076.	-5631.	128.	8158.	16056.	14272.
180.00	-477.	-3965.	-3105.	-5874.	138.	10618.	19294.	15174.
191.25	355.	-4314.	-2613.	-5454.	104.	7425.	15847.	12439.
202.50	308.	-5890.	-757.	-4022.	99.	1057.	8872.	8275.
213.75	559.	-7354.	409.	-2795.	14.	-4037.	4552.	5713.
225.00	1438.	-7742.	1146.	-920.	-87.	-6607.	1681.	2416.
236.25	1593.	-8088.	2306.	1490.	-107.	-8927.	-1861.	-1508.
247.50	1934.	-9434.	3212.	2188.	-198.	-12090.	-4029.	-1989.
258.75	1916.	-10514.	3761.	1938.	-305.	-13740.	-4981.	-1004.
270.00	2090.	-10330.	4163.	2390.	-209.	-12954.	-6112.	-2293.
281.25	2055.	-8870.	3705.	2098.	-94.	-11541.	-5312.	-2760.
292.50	1761.	-9352.	2732.	1156.	-169.	-9425.	-2089.	-716.
303.75	1038.	-8515.	2466.	1428.	-211.	-6788.	-252.	78.
315.00	157.	-8249.	2596.	1313.	-90.	-7022.	-1524.	-527.
326.25	58.	-8575.	2142.	-561.	45.	-9826.	-3077.	208.
337.50	1200.	-7914.	1074.	-1928.	143.	-10452.	-2090.	1498.
348.75	2367.	-7157.	235.	-2215.	191.	-9131.	195.	2331.

RUN 40 POINT 13
RECTANGULAR TIP

V/CR = 0.299 ALFS,U = -10.0 CLR/S = 0.09842 CP/S = 0.009805
MAT = 0.781 THETA = 15.0 CXR/S = 0.01778 RHO = 0.002256

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	1101.2		-7984.9		1480.2		-379.7	
1	1006.9	-753.9	-1242.2	1372.9	1434.8	-1419.8	1878.0	-2003.9
2	-70.3	698.8	403.0	-365.8	-630.5	180.1	-1175.3	45.3
3	-125.1	210.3	155.3	-420.5	-120.3	610.9	-48.5	689.1
4	235.3	134.0	16.8	30.5	-332.1	-51.4	-723.4	103.5
5	-37.8	-178.4	30.0	-50.5	61.3	118.4	67.5	141.4
6	36.8	80.0	41.1	62.6	-97.1	-54.9	-0.5	4.5
7	-141.6	-99.8	-125.6	-119.4	149.1	77.1	21.5	-18.0
8	-37.9	10.2	-31.7	20.0	52.2	28.9	59.3	48.2
9	-15.5	-13.5	-21.6	-35.0	-16.3	-6.5	-43.8	-33.6
10	-13.9	-6.0	-0.6	-38.9	48.2	-32.3	56.4	-87.8

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN
0	59.5		-4180.4		1313.2		2930.6	
1	170.0	215.2	-3113.9	5873.7	-4296.3	5155.5	-3555.0	3886.7
2	76.8	138.6	988.8	-737.8	1728.2	-919.3	1571.9	-35.7
3	-101.0	42.1	-340.1	20.5	-247.9	-571.7	-362.7	-328.7
4	54.6	7.0	-533.5	2574.8	198.1	2412.2	759.9	1476.8
5	-22.6	-38.3	585.4	-812.5	294.1	-861.4	204.4	-652.4
6	-0.8	-2.7	110.6	-79.9	264.0	-61.6	35.7	-229.5
7	0.1	-4.0	-442.3	-387.9	-505.3	-337.5	-101.8	-56.9
8	3.7	-7.8	-161.6	10.2	-177.4	-156.4	-134.1	-176.7
9	14.5	3.6	-9.4	-95.7	82.6	-28.4	74.5	-10.2
10	0.0	11.5	-118.5	-31.8	-264.4	84.9	-255.8	167.4

RUN 40 POINT 13
RECTANGULAR TIP

V/OR = 0.296 ALFS,U = -10.0 CLR/S = 0.09842 CP/S = 0.009809
MAT = 0.781 THETA = 15.0 CXR/S = 0.01778 RHO = 0.002256

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	1934.	-8761.	2029.	-289.	256.	-7215.	-1611.	1568.
11.25	2251.	-8913.	2192.	-27.	334.	-5200.	-96.	2456.
22.50	2568.	-8759.	2373.	609.	409.	-2704.	1470.	2873.
33.75	2410.	-8752.	2582.	935.	535.	-1794.	1766.	2868.
45.00	1961.	-8345.	2503.	614.	588.	-2244.	1364.	2987.
56.25	1909.	-8361.	2013.	37.	496.	-2645.	983.	2722.
67.50	1310.	-7591.	1154.	-895.	402.	-2558.	1500.	2829.
78.75	874.	-7024.	266.	-2029.	336.	-1896.	3212.	4183.
90.00	296.	-6616.	-116.	-2492.	191.	-523.	4781.	5414.
101.25	-234.	-6302.	-196.	-2438.	38.	1551.	6347.	6358.
112.50	-485.	-6087.	-503.	-2551.	-24.	4030.	9088.	8047.
123.75	-528.	-5818.	-646.	-2377.	-82.	5538.	10650.	8634.
135.00	-700.	-5584.	-203.	-1890.	-153.	4525.	8649.	7107.
146.25	-1005.	-6032.	184.	-2200.	-122.	1575.	5806.	6420.
157.50	-997.	-6519.	-14.	-3215.	-8.	-1115.	5018.	7483.
168.75	-381.	-6574.	-517.	-3853.	83.	-1898.	5826.	8281.
180.00	556.	-6352.	-988.	-4038.	133.	-574.	7734.	9049.
191.25	1150.	-6409.	-1015.	-3848.	120.	978.	9420.	9939.
202.50	1065.	-6948.	-219.	-2826.	1.	115.	7981.	8698.
213.75	776.	-7861.	903.	-1268.	-158.	-3135.	3858.	5312.
225.00	921.	-8156.	1632.	98.	-265.	-6752.	-34.	1809.
236.25	1414.	-8561.	2161.	1118.	-291.	-10193.	-3500.	-1366.
247.50	1833.	-9263.	2850.	1746.	-237.	-13150.	-6588.	-3365.
258.75	2139.	-10018.	3492.	2100.	-152.	-13655.	-7279.	-2991.
270.00	2408.	-10271.	3875.	2643.	-109.	-11189.	-5569.	-1805.
281.25	2465.	-10101.	3972.	3233.	-111.	-8236.	-3661.	-1412.
292.50	2145.	-9857.	3856.	3427.	-135.	-7216.	-2927.	-1452.
303.75	1561.	-9710.	3760.	3338.	-161.	-8579.	-4134.	-2358.
315.00	1130.	-9448.	3527.	2789.	-135.	-10763.	-6228.	-3756.
326.25	1242.	-9039.	2763.	1471.	-50.	-11191.	-6045.	-3086.
337.50	1675.	-8562.	1928.	195.	39.	-9551.	-3616.	-596.
348.75	1878.	-8442.	1770.	-267.	138.	-8105.	-2142.	928.

TOTAL

RUN 41 POINT 13
RECTANGULAR TIP

V/CR =	0.378	ALFS,U =	-5.0	CLR/S =	0.08014	CP/S = 0.006097
MAT =	0.625	THETA =	12.0	CXR/S =	0.00605	RHO = 0.002226

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	436.1		-6653.9		711.9		-1029.5	
1	1128.7	-1370.1	-1470.4	1648.9	1767.5	-2112.0	2191.3	-2918.7
2	-1[illegible]	1591.3	490.9	-1594.5	-450.2	1970.1	-595.7	2385.4
3	346.7	-249.7	-831.9	-134.5	1037.7	390.6	1355.3	844.1
4	765.3	619.0	-13.6	-135.8	-370.7	-15.2	-1015.6	-303.6
5	-175.7	-591.7	-115.5	-27.7	45.0	396.4	-196.4	856.9
6	236.6	131.0	124.3	29.1	-175.7	-76.7	-207.8	-144.0
7	-390.7	269.6	-441.6	232.2	406.0	-287.4	-4.2	-60.0
8	119.1	7.1	217.1	-15.8	-81.7	-32.6	166.3	-17.8
9	15.4	63.1	-0.5	104.7	-23.3	18.6	-17.4	168.2
10	-59.6	56.8	-105.3	-24.4	-0.8	-130.1	-152.2	-144.3

	PITCH LINK LOAD		BLADE EDGEWISE BENDING MOMENT					
			.5R		.6R		.7R	
	COS	SIN	COS	SIN	COS	SIN	COS	SIN
HARMONIC								
0	47.7		-2729.1		5224.5		4032.8	
1	205.1	90.1	-4083.9	5760.8	-5103.9	6019.5	-4356.4	5388.4
2	-13.5	134.0	973.4	-4268.7	1084.1	-5014.2	843.9	-3973.0
3	-116.4	-44.6	-594.3	1615.0	-912.4	921.0	-811.4	282.9
4	118.1	62.5	-103.0	1347.8	640.7	1415.7	1468.0	1613.7
5	-14.3	-30.3	-56.2	2076.2	-4.8	1150.7	341.7	354.4
6	-8.1	-3.3	553.5	-721.9	619.8	-567.8	496.5	-448.3
7	-15.1	15.6	-1162.0	551.6	-1117.7	735.7	-95.8	296.6
8	3.8	-5.3	341.3	-127.9	23.4	-145.6	-422.0	-212.5
9	-4.5	2.6	175.2	253.7	238.9	64.6	207.8	-172.8
10	6.1	-20.1	-378.4	11.4	-188.9	341.1	88.5	285.1

RUN 41 POINT 13
RECTANGULAR TIP

V/QR =	0.373	ALFS,U =	-5.0	CLR/S =	0.08014	CP/S = 0.006097
MAT =	0.825	THETA =	12.0	CXR/S =	0.00605	RHO = 0.002226

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
FSI								
0.00	2251.	-8887.	2660.	494.	211.	-7063.	504.	1794.
11.25	2806.	-8650.	3062.	1983.	261.	-3265.	3112.	2105.
22.50	2233.	-8520.	3477.	3026.	342.	-2033.	3114.	1222.
33.75	1253.	-8464.	3380.	2656.	354.	-3697.	1539.	301.
45.00	843.	-7757.	2391.	1341.	319.	-5409.	540.	-367.
56.25	692.	-6814.	974.	-805.	300.	-6213.	842.	494.
67.50	462.	-6123.	-439.	-3184.	402.	-5023.	3745.	3838.
78.75	112.	-5454.	-1200.	-3908.	349.	-1071.	7842.	6963.
90.00	-600.	-5239.	-914.	-3601.	275.	2285.	9952.	8680.
101.25	-1120.	-5489.	-1182.	-4663.	161.	3563.	12134.	11797.
112.50	-836.	-4752.	-2607.	-5991.	-47.	6123.	16510.	15011.
123.75	-1068.	-3244.	-3441.	-5549.	-239.	8910.	18367.	14038.
135.00	-3011.	-3096.	-2952.	-4859.	-363.	7913.	15914.	11451.
146.25	-4941.	-3949.	-2432.	-5064.	-436.	6448.	14952.	12071.
157.50	-4541.	-3621.	-2673.	-5017.	-333.	8479.	17161.	13789.
168.75	-2090.	-2647.	-3387.	-5185.	[illegible]	9248.	17721.	13224.
180.00	396.	-3168.	-3600.	-6163.	101.	4379.	14304.	11222.
191.25	1508.	-5191.	-2090.	-5793.	101.	-2756.	8320.	8423.
202.50	1497.	-7132.	554.	-2985.	64.	-7357.	2667.	4626.
213.75	1513.	-8057.	2389.	603.	-43.	-7774.	541.	1071.
225.00	1770.	-8392.	3444.	3734.	-217.	-6231.	464.	-1827.
236.25	1713.	-9151.	4750.	5558.	-285.	-7628.	-2020.	-4320.
247.50	1787.	-10067.	5355.	5106.	-206.	-12016.	-5475.	-5178.
258.75	2613.	-9774.	4278.	3314.	-67.	-13275.	-5076.	-3892.
270.00	3237.	-8495.	2686.	1754.	92.	-9563.	-1205.	-1381.
281.25	2496.	-7742.	1834.	553.	158.	-5448.	2567.	1673.
292.50	850.	-7622.	1689.	-48.	66.	-3623.	4176.	3416.
303.75	-398.	-7142.	1655.	258.	-18.	-3740.	3226.	1983.
315.00	-445.	-6461.	1120.	393.	-5.	-5412.	1511.	-686.
326.25	392.	-6351.	516.	-146.	20.	-7555.	724.	-1680.
337.50	1085.	-7130.	1042.	-475.	63.	-9113.	-290.	-1085.
348.75	1495.	-8324.	2281.	-282.	153.	-9410.	-1198.	275.

RUN 41 POINT 18
RECTANGULAR TIP

V/OR =	0.377	ALFS,U =	-10.0	CLR/S =	0.07196	CP/S = 0.008521
MAT =	0.826	THETA =	14.0	CXR/S =	0.01215	RHO = 0.002217

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	787.1		-7124.0		1256.4		97.1	
1	1016.3	-1045.8	-1328.6	1329.9	1625.3	-1713.3	2020.6	-2413.7
2	-142.7	1197.7	275.3	-1107.1	-335.6	1346.7	-558.8	1638.3
3	300.9	115.8	-539.0	-353.6	663.6	615.6	852.3	992.6
4	642.6	425.0	-4.2	-114.6	-324.3	94.3	-813.6	84.0
5	-255.0	-414.7	-47.9	-4.0	65.2	263.9	-13.7	595.3
6	168.0	115.6	94.3	18.0	-126.7	-75.5	-80.2	-155.0
7	-316.9	179.2	-323.1	131.3	318.3	-169.8	26.8	-37.1
8	92.3	20.9	141.2	41.7	-68.1	-28.0	95.5	27.6
9	-19.4	37.9	-34.1	62.9	27.2	12.5	-16.2	88.5
10	-14.3	34.6	-37.6	-17.2	-10.9	-88.6	-74.5	-119.5

	PITCH LINK LOAD		BLADE EDGEWISE BENDING MOMENT					
			.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	25.9		-3650.4		3916.5		3041.5	
1	242.6	96.2	-2718.6	5172.7	-4022.3	5307.6	-3532.5	4774.9
2	19.4	131.2	182.3	-3187.8	450.7	-3656.1	600.2	-2906.3
3	-108.2	-1.5	-82.7	1025.8	-308.9	396.9	-337.4	38.3
4	117.0	13.4	753.6	2717.1	1329.7	2443.8	1885.2	2029.2
5	-26.0	-15.7	-350.3	2612.9	-468.4	1883.8	-268.1	1220.7
6	-6.1	-17.5	253.3	-670.4	329.9	-504.8	149.2	-371.9
7	-7.5	3.0	-906.3	439.0	-906.4	530.9	-162.8	257.5
8	-2.7	-0.5	234.6	6.0	38.3	-91.4	-273.5	-210.0
9	1.6	-1.9	-14.9	132.6	47.1	-7.4	146.6	-138.8
10	0.9	-15.1	-125.8	147.4	-43.3	438.5	99.0	451.4

RUN 41 POINT 18
RECTANGULAR TIP

V/OR =	0.377	ALFS,U =	-10.0	CLR/S =	0.07196	CP/S = 0.008521
MAT =	0.826	THETA =	14.0	CXR/S =	0.01215	RHO = 0.002217

	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	2319.	-8928.	3090.	1535.	257.	-6425.	363.	1347.
11.25	2932.	-8869.	3387.	2781.	290.	-1371.	4280.	3264.
22.50	2710.	-8864.	3739.	3617.	371.	-61.	4669.	2823.
33.75	1961.	-8846.	3696.	3323.	402.	-2785.	2246.	1214.
45.00	1380.	-8253.	2890.	2186.	377.	-6488.	-669.	-1021.
56.25	1011.	-7315.	1575.	419.	377.	-8546.	-1905.	-1930.
67.50	689.	-6552.	181.	-1648.	360.	-6739.	1236.	1414.
78.75	307.	-5973.	-591.	-2678.	286.	-1402.	6953.	6422.
90.00	-207.	-5708.	-545.	-2593.	203.	3481.	10803.	9366.
101.25	-490.	-5774.	-676.	-2985.	74.	5661.	13282.	11792.
112.50	-323.	-5430.	-1427.	-3685.	-138.	6230.	15344.	13310.
123.75	-539.	-4596.	-1863.	-3394.	-327.	5252.	14070.	10673.
135.00	-1835.	-4414.	-1533.	-2848.	-415.	2787.	10561.	7307.
146.25	-3199.	-4970.	-1099.	-2984.	-392.	1686.	9902.	8229.
157.50	-2984.	-4948.	-1196.	-3195.	-234.	3286.	12008.	10589.
168.75	-1117.	-4275.	-1896.	-3522.	-31.	4387.	13223.	10801.
180.00	747.	-4382.	-2309.	-4204.	52.	1720.	11681.	9656.
191.25	1263.	-5701.	-1237.	-3853.	15.	-3788.	6904.	7005.
202.50	919.	-7103.	742.	-1750.	-70.	-7862.	1703.	3089.
213.75	916.	-7721.	2036.	905.	-201.	-7802.	296.	428.
225.00	1327.	-7989.	2802.	3174.	-297.	-6590.	493.	-1379.
236.25	1639.	-8655.	3863.	4517.	-271.	-8580.	-2141.	-3740.
247.50	2078.	-9574.	4482.	4321.	-182.	-12208.	-5104.	-4614.
258.75	2651.	-9657.	4004.	3331.	-77.	-12720.	-4552.	-3340.
270.00	3229.	-8930.	3220.	2778.	49.	-9425.	-1709.	-1756.
281.25	2545.	-8322.	2788.	2493.	90.	-5262.	1507.	337.
292.50	1173.	-8123.	2622.	2161.	5.	-2979.	3572.	2155.
303.75	112.	-7812.	2453.	1982.	-62.	-3737.	2571.	1098.
315.00	75.	-7258.	1891.	1513.	-40.	-6386.	115.	-1375.
326.25	762.	-7013.	1225.	611.	19.	-8954.	-1228.	-2304.
337.50	1256.	-7528.	1453.	192.	117.	-10748.	-2403.	-2245.
348.75	1638.	-8444.	2436.	608.	221.	-10444.	-2744.	-1277.

RUN 41 POINT 27
RECTANGULAR TIP

V/CR = 0.377 ALFS,D = 0.0 CLR/S = 0.10227 CP/S = 0.005464
MAT = 0.825 THETA = 12.0 CXR/S = 0.000074 RHO = 0.002205

BLADE NORMAL BENDING MOMENT

	.3R		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	319.4		-6354.3		378.4		-332.9	
1	1416.7	-1450.2	-1693.5	1898.4	1987.4	-2396.8	2432.5	-3219.3
2	-312.5	1722.0	558.2	-1870.6	-609.0	2395.9	-858.5	2892.2
3	195.4	10.0	-592.8	-418.8	748.3	635.6	932.7	906.9
4	516.6	696.8	23.4	-219.5	-445.5	68.4	-1136.8	-245.7
5	-55.9	123.3	-234.9	44.0	15.1	-11.9	-403.4	194.6
6	267.9	516.4	39.9	74.9	-116.5	-358.6	-194.7	-507.2
7	-429.9	472.3	-503.8	354.5	400.7	-456.8	-29.4	-138.7
8	175.8	46.1	220.2	47.8	-132.0	-89.8	108.1	-21.9
9	54.2	125.7	57.7	208.8	-2.9	-78.5	76.5	149.7
10	-49.2	42.0	-74.1	-5.4	86.2	-117.3	-6.3	-105.8

PITCH LINK LOAD

BLADE EDGEWISE BENDING MOMENT

	PITCH LINK LOAD		.5R		.6R		.7R	
HARMONIC	COS	SIN	COS	SIN	COS	SIN	COS	SIN
0	28.1		-1867.4		6143.4		5157.7	
1	213.9	172.6	-5184.1	6893.0	-6119.1	6759.2	-5126.0	5734.7
2	69.4	139.0	2081.4	-6197.1	1891.9	-7004.9	1503.0	-5545.8
3	-69.5	-23.1	-2116.1	2143.1	-2029.9	1391.5	-1470.4	1120.8
4	103.0	4.1	1740.2	2942.9	2300.0	2940.5	3085.6	2948.7
5	-17.7	-89.8	-1494.3	-361.7	-862.2	-353.4	17.2	-784.8
6	-81.5	-86.4	-328.0	-1544.2	-179.9	-903.0	-131.5	-933.6
7	-68.0	-6.5	-1165.7	973.7	-1112.8	1130.9	-140.1	302.5
8	-20.5	5.8	-16.6	109.9	-341.4	32.8	-882.3	-137.7
9	4.4	1.4	250.3	780.0	70.0	555.5	-68.4	259.7
10	29.2	-1.6	-229.8	286.8	-219.1	699.1	97.1	714.3

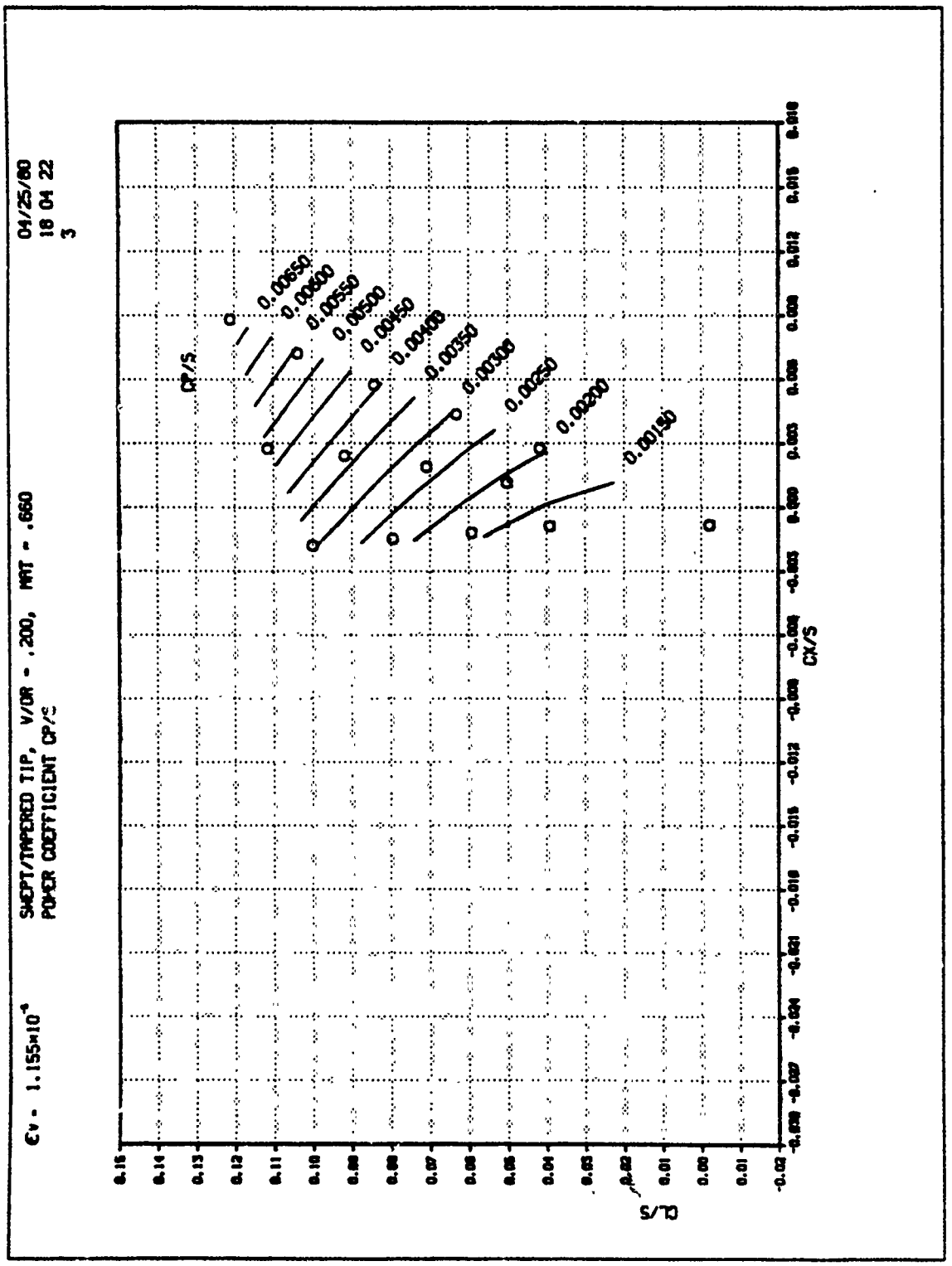
RUN 41 POINT 27
RECTANGULAR TIP

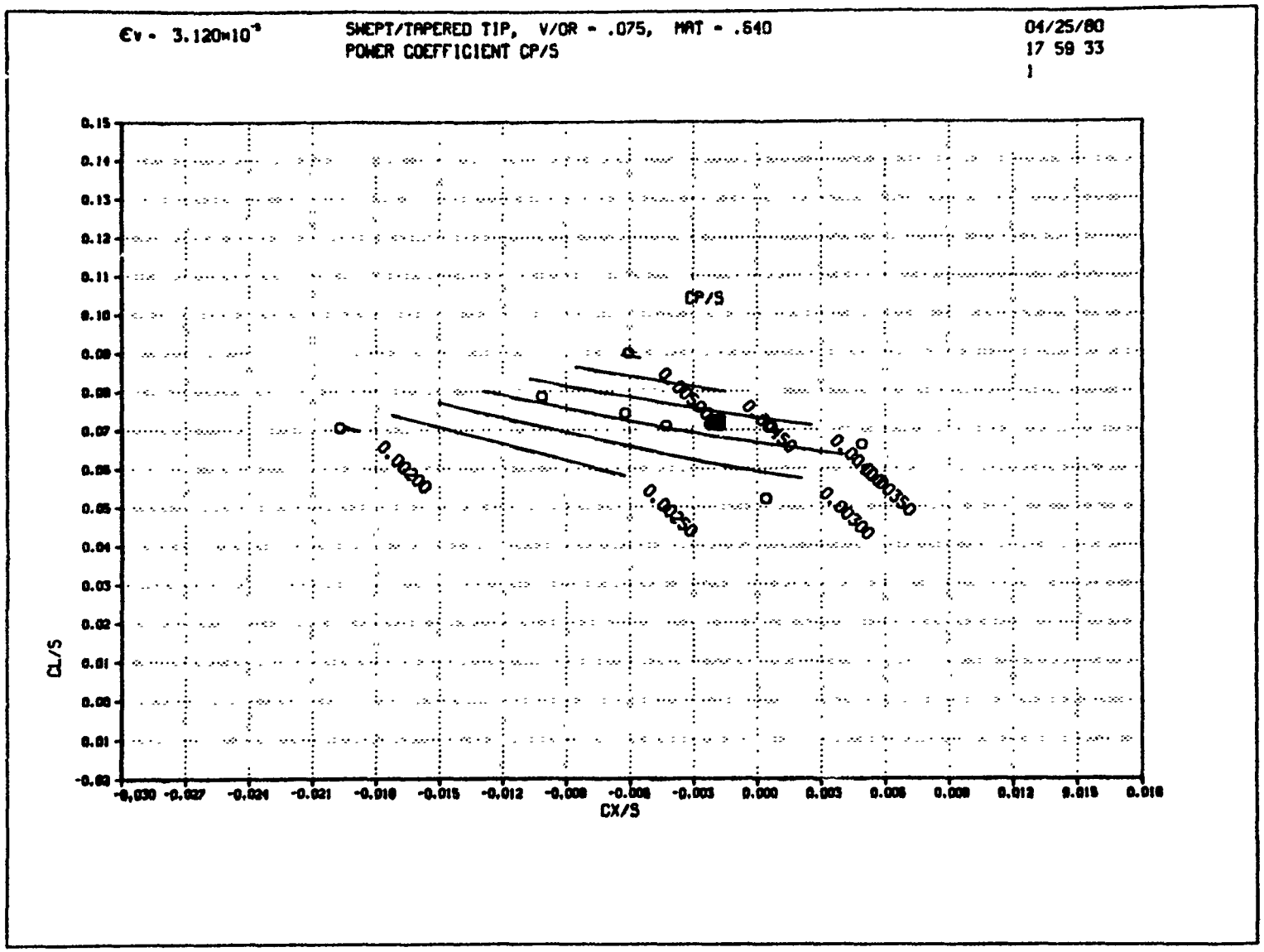
V/CR = 0.377 ALFS,U = 0.0 CLR/S = 0.10227 CP/S = 0.005464
MAT = 0.825 THETA = 12.0 CXR/S = 0.00074 RHO = 0.002209

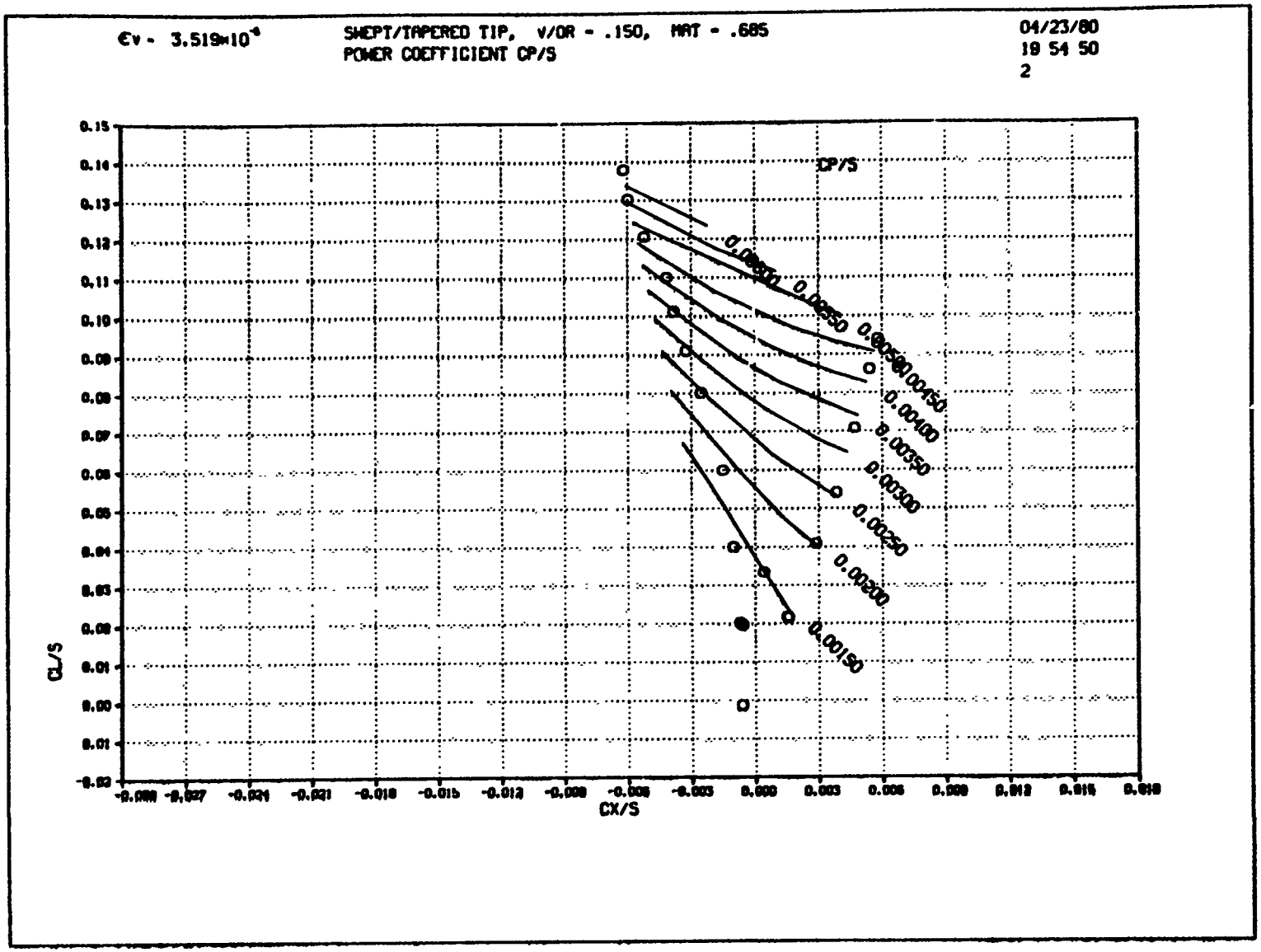
	NORMAL BENDING MOMENT				PITCH LINK	EDGEWISE BENDING MOMENT		
	.3R	.5R	.6R	.7R	LOAD	.5R	.6R	.7R
PSI								
0.00	2499.	-8548.	2334.	588.	251.	-8330.	-459.	2042.
11.25	4317.	-8200.	1876.	1308.	215.	-4090.	3828.	3649.
22.50	3421.	-8494.	2933.	3000.	372.	-2542.	3588.	2398.
33.75	1242.	-8791.	4161.	4496.	510.	-2726.	1317.	658.
45.00	113.	-8130.	3527.	4016.	411.	-3242.	686.	-80.
56.25	239.	-7141.	1581.	1269.	296.	-5995.	4.	-466.
67.50	809.	-6155.	-513.	-1953.	346.	-7530.	1353.	1619.
78.75	924.	-4958.	-2002.	-3616.	361.	-3500.	6350.	5815.
90.00	-178.	-4413.	-2220.	-3945.	267.	2527.	11048.	9679.
101.25	-1611.	-4578.	-2158.	-4538	161.	7327.	15558.	14556.
112.50	-1912.	-3768.	-3262.	-5323.	-30.	11827.	21134.	18705.
123.75	-2057.	-2293.	-4401.	-5387.	-280.	12982.	22005.	16983.
135.00	-3657.	-2373.	-4038.	-5330.	-372.	9010.	17530.	13205.
146.25	-5262.	-3375.	-3408.	-5604.	-307.	7110.	16390.	14196.
157.50	-4483.	-2945.	-3694.	-5461.	-185.	11289.	20153.	16899.
168.75	-1893.	-1895.	-4324.	-5215.	-2.	14496.	22141.	16913.
180.00	137.	-2613.	-4023.	-5430.	125.	11090.	19649.	15617.
191.25	640.	-4366.	-2154.	-4622.	77.	3902.	13723.	12877.
202.50	515.	-6788.	462.	-1781.	-18.	-2894.	6330.	7580.
213.75	853.	-7659.	2191.	1646.	-108.	-8241.	398.	1233.
225.00	1539.	-8099.	3131.	4395.	-274.	-12738.	-4488.	-5336.
236.25	1860.	-8930.	4423.	6099.	-399.	-16405.	-9226.	-9680.
247.50	2043.	-9925.	5254.	6015.	-353.	-17143.	-9677.	-7784.
258.75	2689.	-9916.	4442.	4545.	-191.	-12992.	-4298.	-2282.
270.00	3189.	-8844.	3112.	3341.	40.	-5862.	2170.	2106.
281.25	2539.	-8119.	2523.	2523.	156.	-923.	6418.	6065.
292.50	1137.	-8125.	2182.	1358.	-113.	-2022.	6649.	7272.
303.75	292.	-7570.	1376.	521.	-482.	-6522.	2534.	1921.
315.00	319.	-6052.	192.	566.	-386.	-7526.	279.	-3029.
326.25	203.	-5243.	-376.	727.	72.	-4986.	2714.	-1038.
337.50	-380.	-6395.	721.	618.	370.	-5790.	2348.	1631.
348.75	137.	-8136.	2303.	521.	371.	-9314.	-1561.	1123.

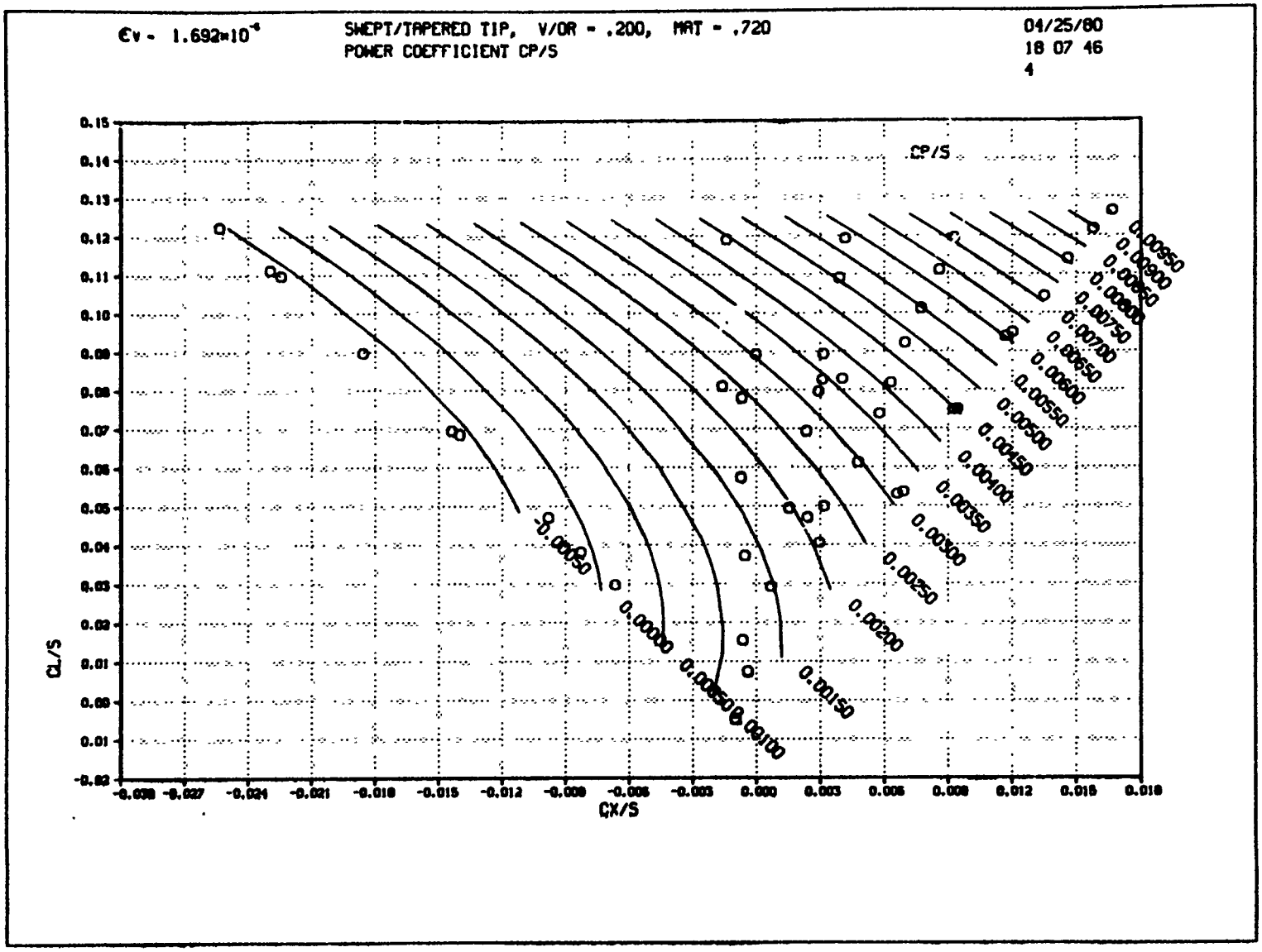
SECTION D

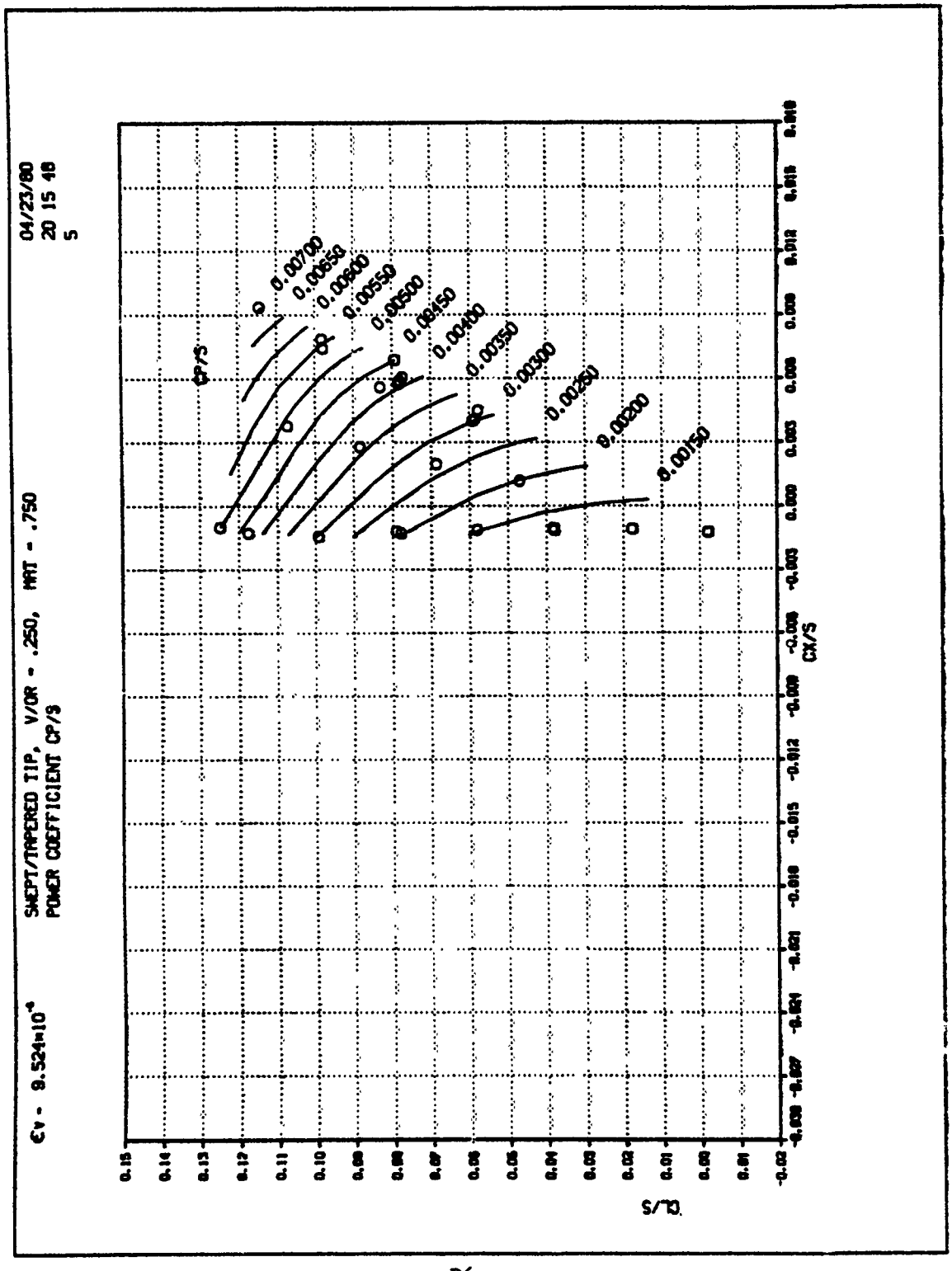
Plotted Performance and Loads Data

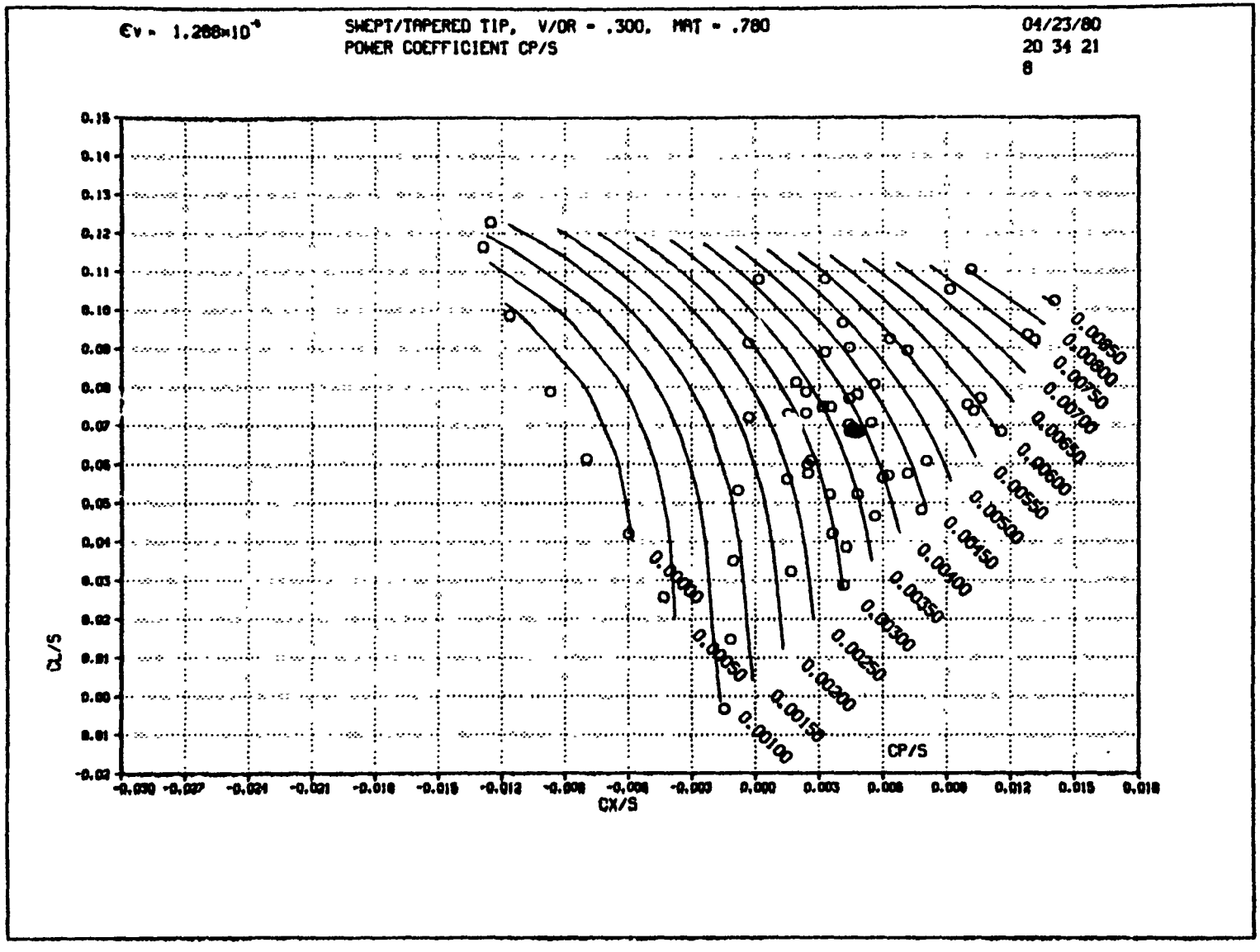

04/25/80
18 04 22
3
SWEPT/TAPERED TIP, V/OR = .200, MAT = .660
POWER COEFFICIENT CP/S
Ev = 1.155x10⁻⁴
CP/S
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
CL/S
CX/S

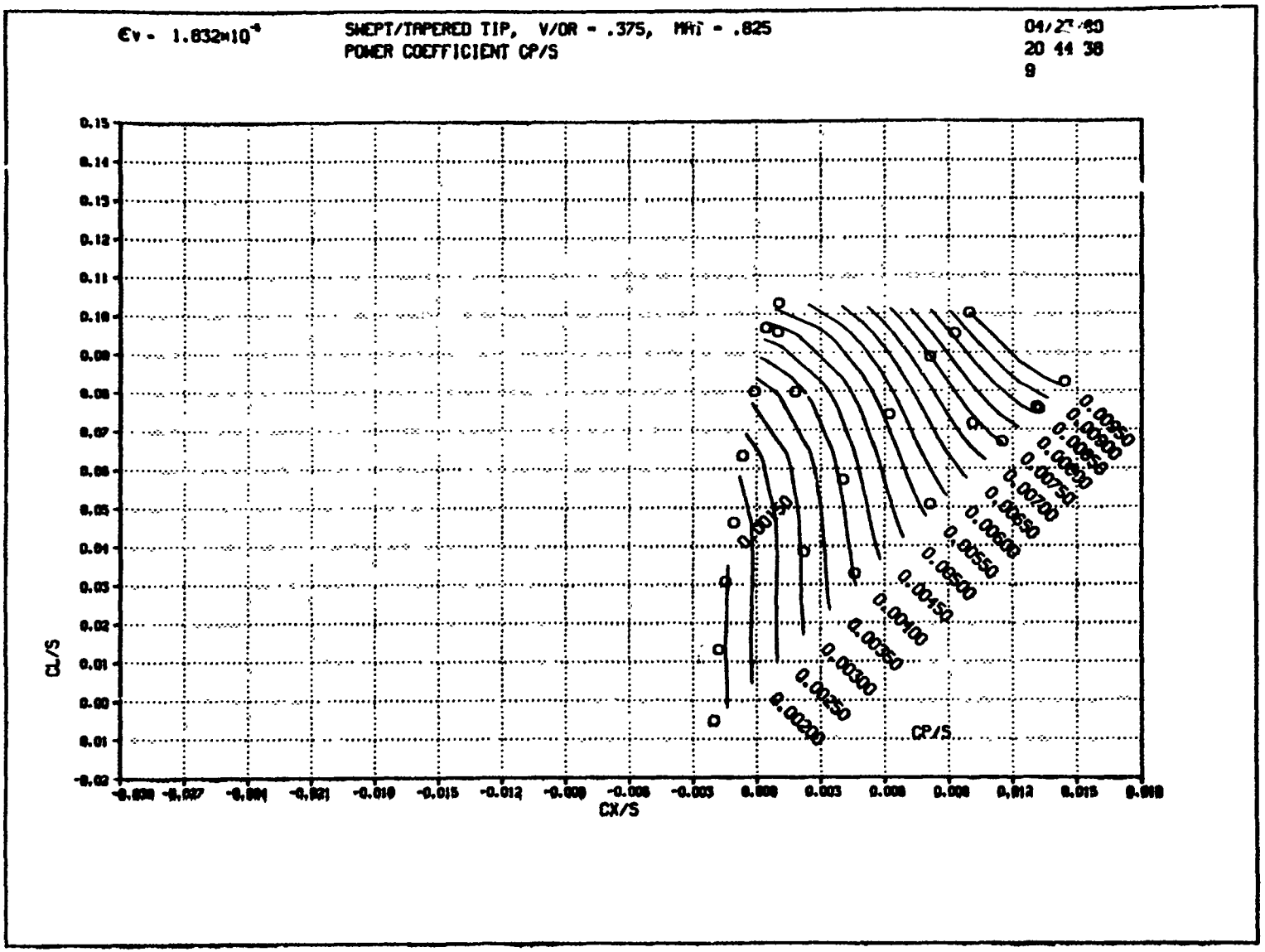

Ev - 3.120x10^-5
SWEPT/TAPERED TIP, V/OR - .075, MAT - .640
POWER COEFFICIENT CP/S
04/25/80
17 59 33
1
CP/S
0.00200
0.00250
0.00300
CL/S
CX/S

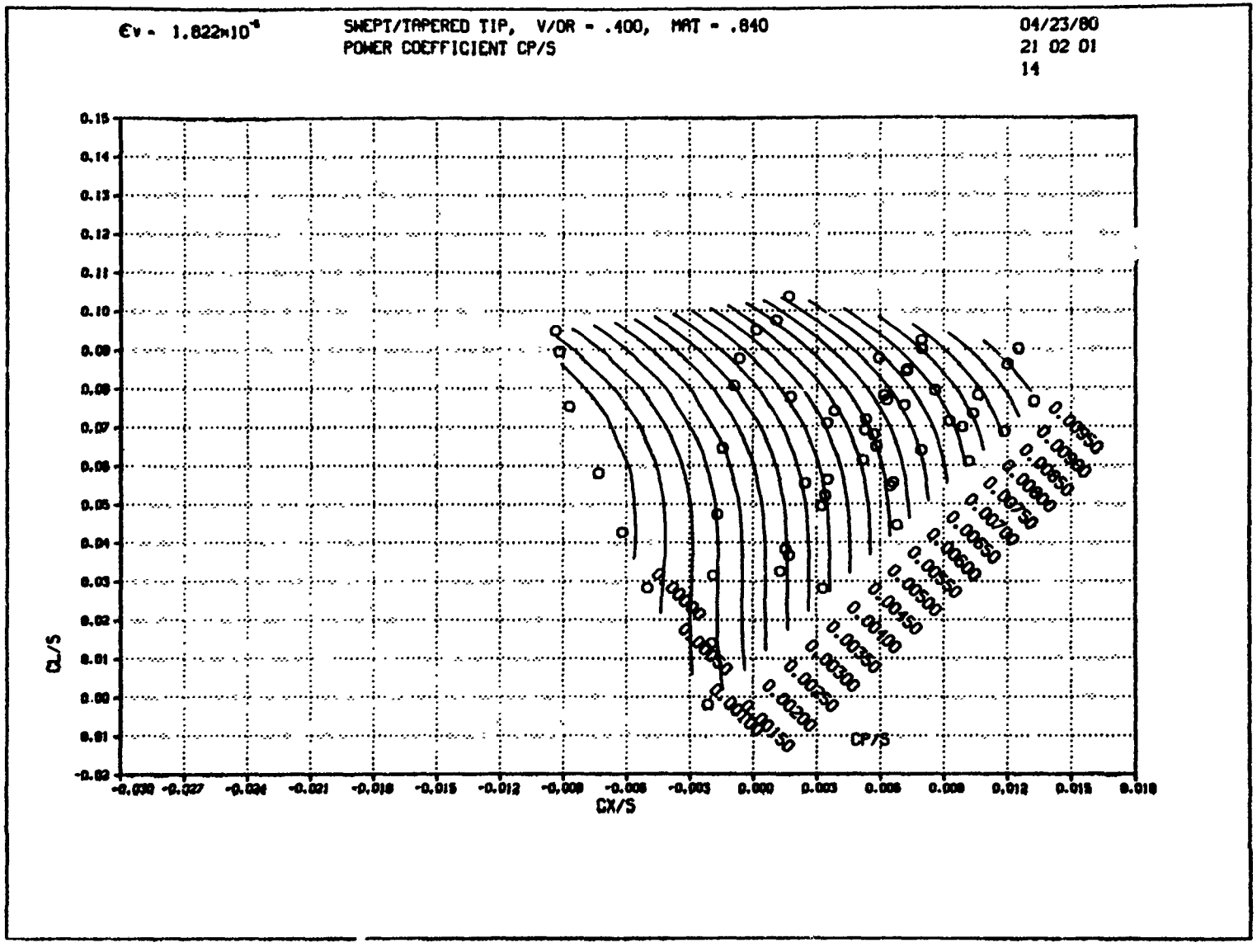

Cv - 3.519×10⁻⁶
SWEPT/TAPERED TIP, V/OR - .150, MAT - .685
POWER COEFFICIENT CP/S
04/23/80
19 54 50
2
CP/S
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
CL/S
CX/S

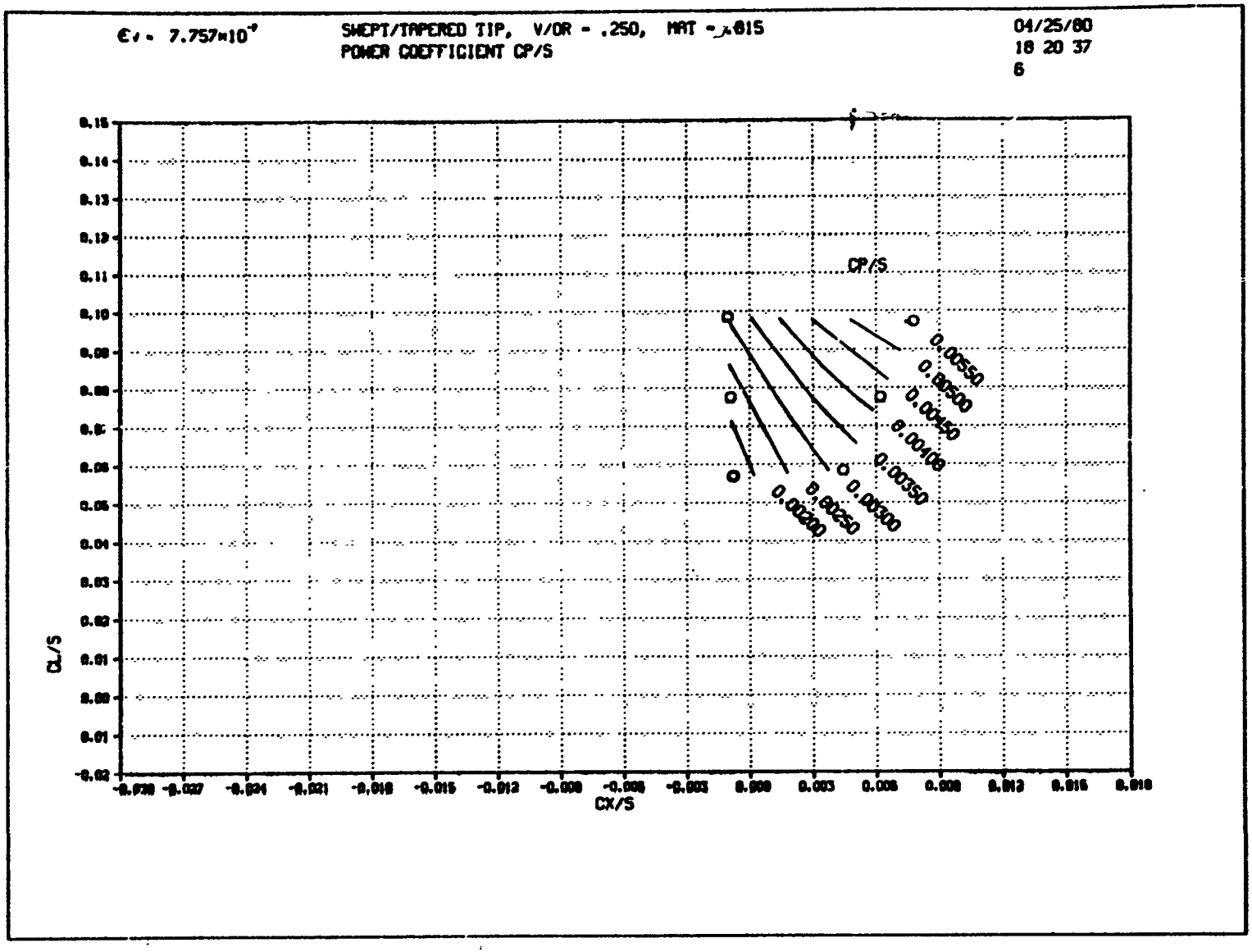

Ev - 1.692×10⁻⁶
SWEPT/TAPERED TIP, V/OR = .200, MAT = .720
POWER COEFFICIENT CP/S
04/25/80
18 07 46
4
CP/S
CL/S
CX/S
0.00950
0.00900
0.00850
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
0.00100
0.00050
0.00000
-0.00050

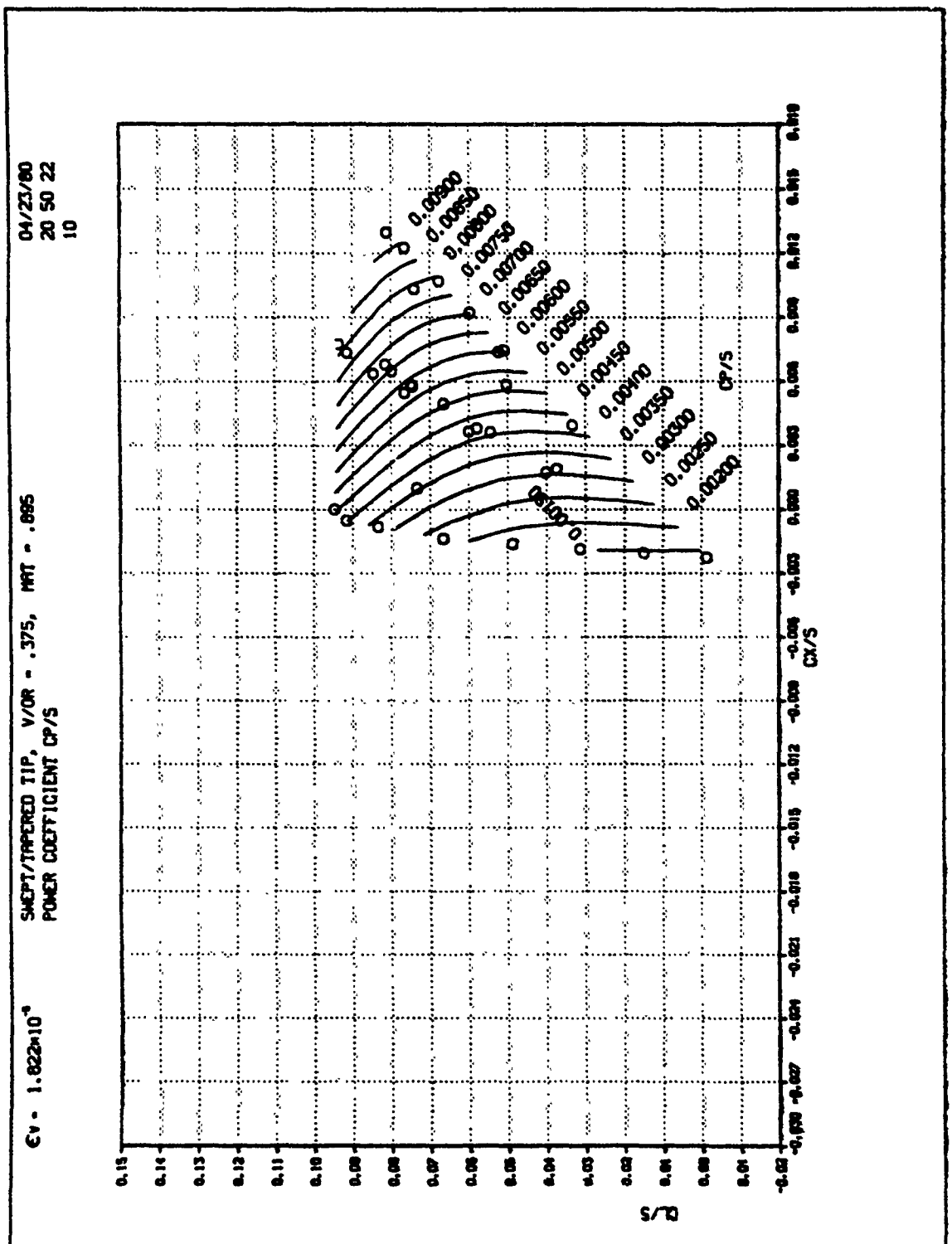

Ev - 9.524E-04
SWEPT/TAPERED TIP, V/OR - .250, MAT - .750
POWER COEFFICIENT CP/S
04/23/80
20 15 48
5
CP/S
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
CX/S
CZ/S

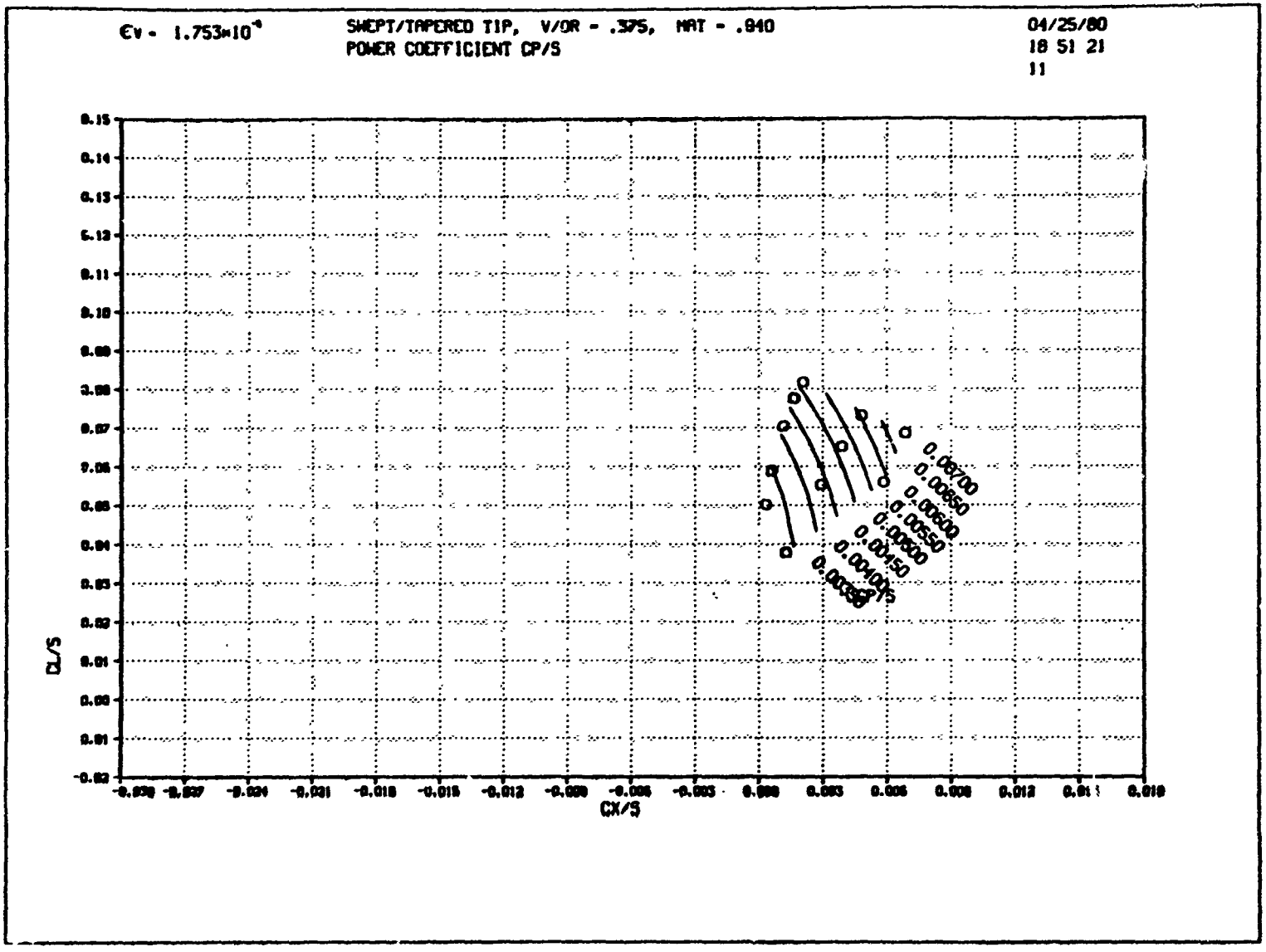

Cv = 1.288×10⁻³
SWEPT/TAPERED TIP, V/OR = .300, MAT = .780
POWER COEFFICIENT CP/S
04/23/80
20 34 21
8
CL/S
CX/S
CP/S
0.0000
0.0050
0.0100
0.0150
0.0200
0.0250
0.0300
0.0350
0.0400
0.0450
0.0500
0.0550
0.0600
0.0650
0.0700
0.0750
0.0800
0.0850

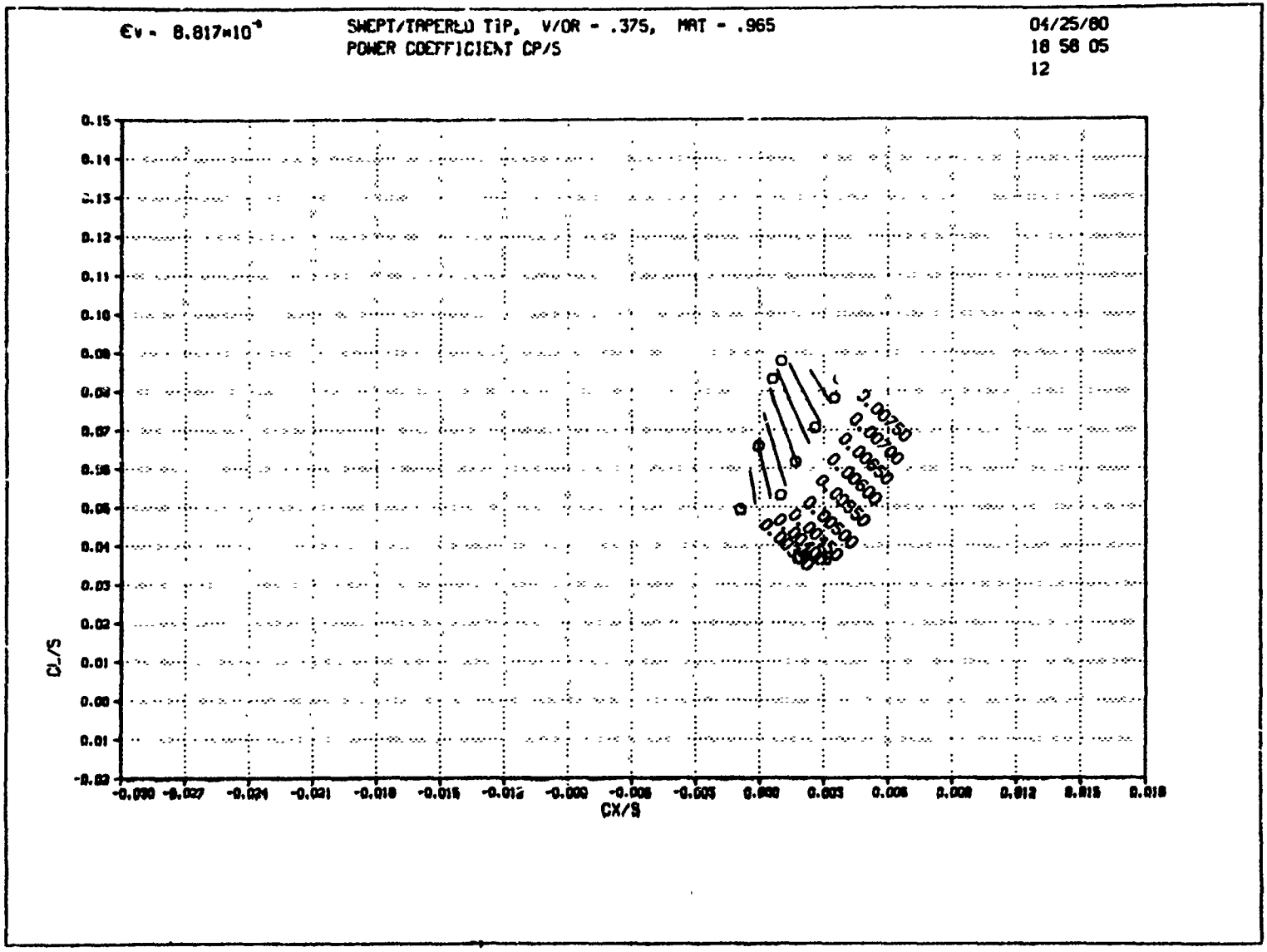

Ev - 1.832x10⁻⁶
SWEPT/TAPERED TIP, V/OR - .375, MAi - .825
POWER COEFFICIENT CP/S
04/2?/80
20 44 38
9
CL/S
CX/S
CP/S
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00700
0.00750

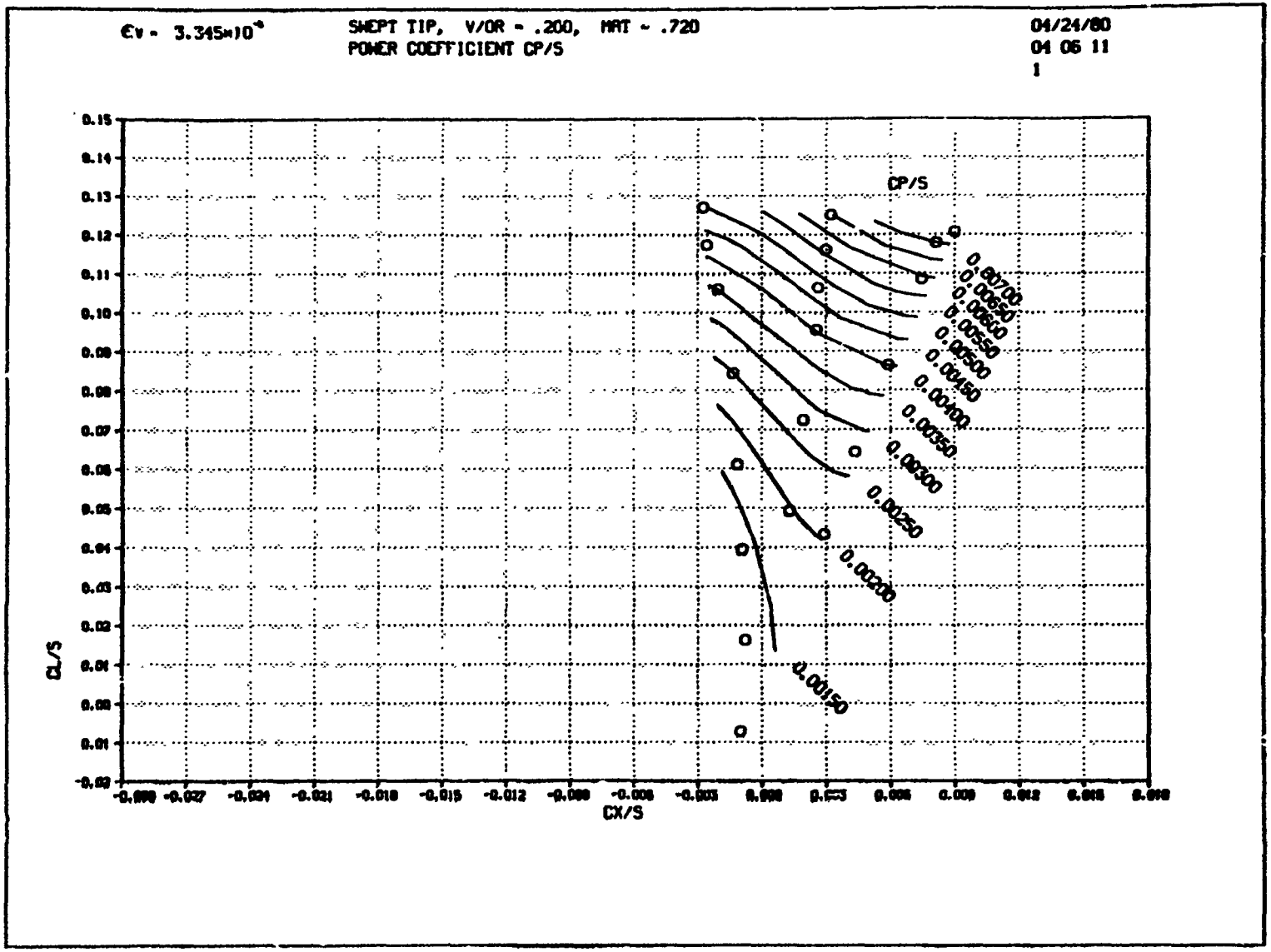

Ev = 1.822×10⁻⁶
SWEPT/TAPERED TIP, V/OR = .400, MAT = .840
POWER COEFFICIENT CP/S
04/23/80
21 02 01
14
CZ/S
CX/S
CP/S

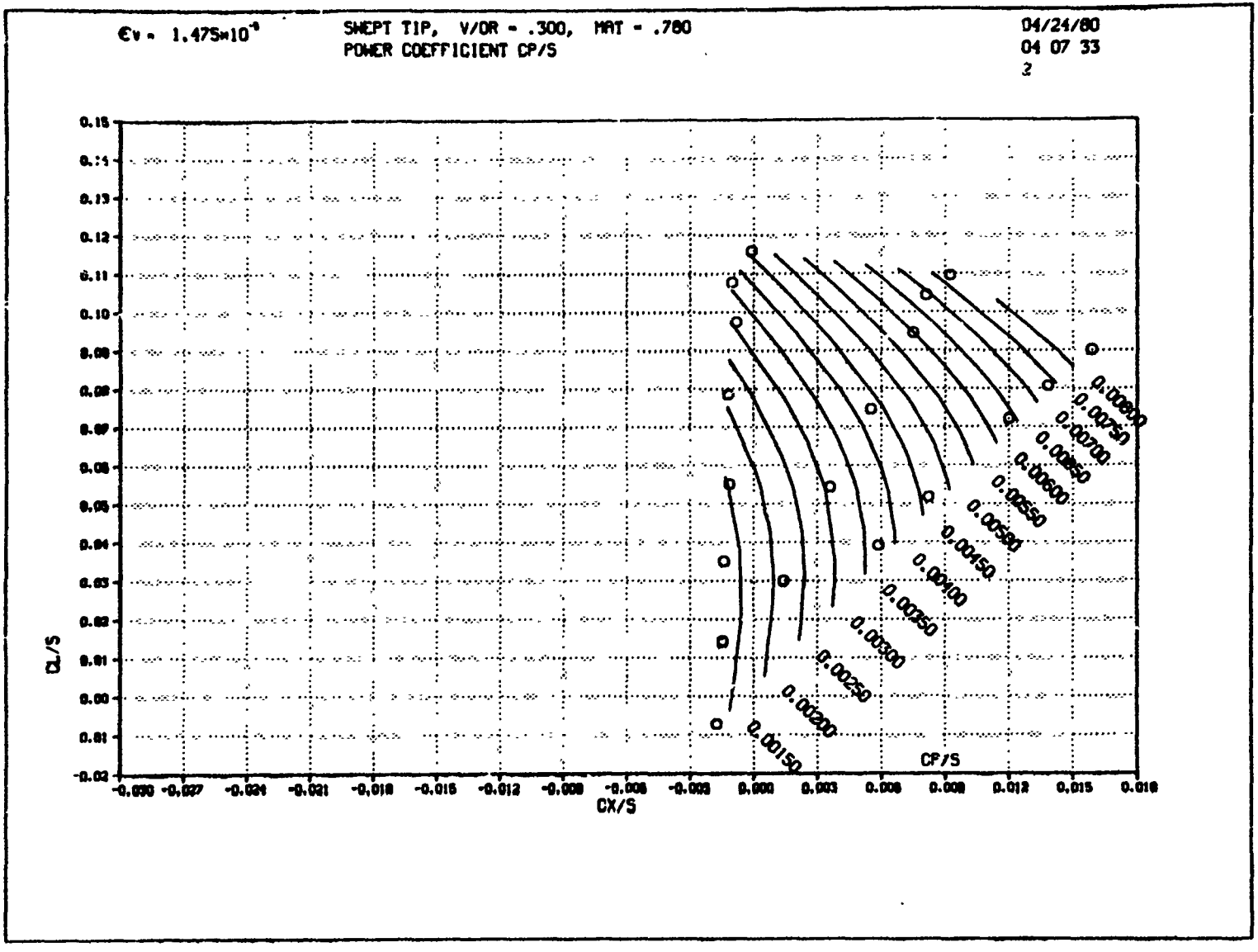

ϵ_r = 7.757×10⁻⁹
SWEPT/TAPERED TIP, V/OR = .250, MAT = A015
POWER COEFFICIENT CP/S
04/25/80
18 20 37
6
CP/S
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
CL/S
CX/S

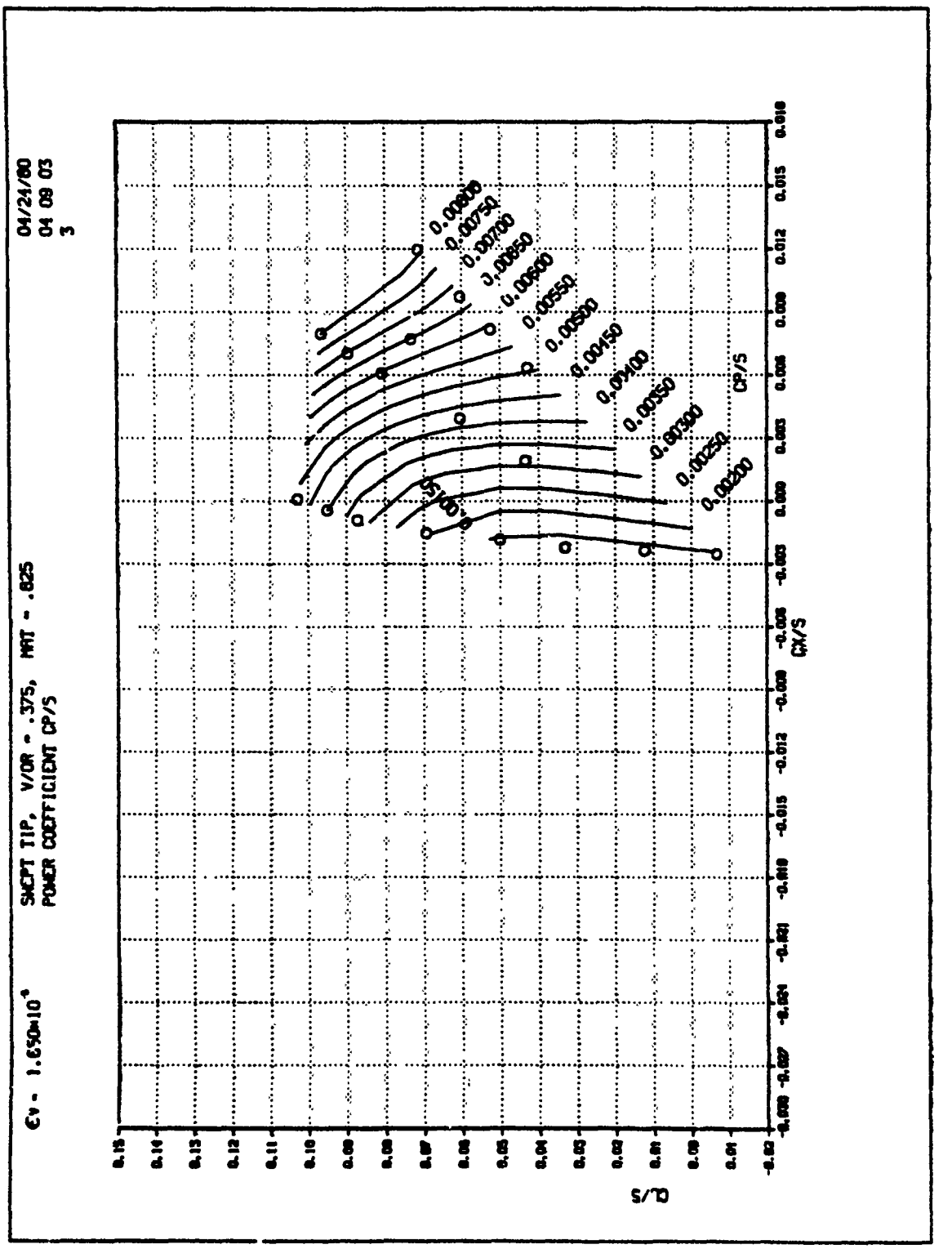

SWEPT/TAPERED TIP, V/OR = .375, MAT = .895
POWER COEFFICIENT CP/S
04/23/80
20 50 22
10
0.00900
0.00850
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
CP/S
CX/S
CZ/S

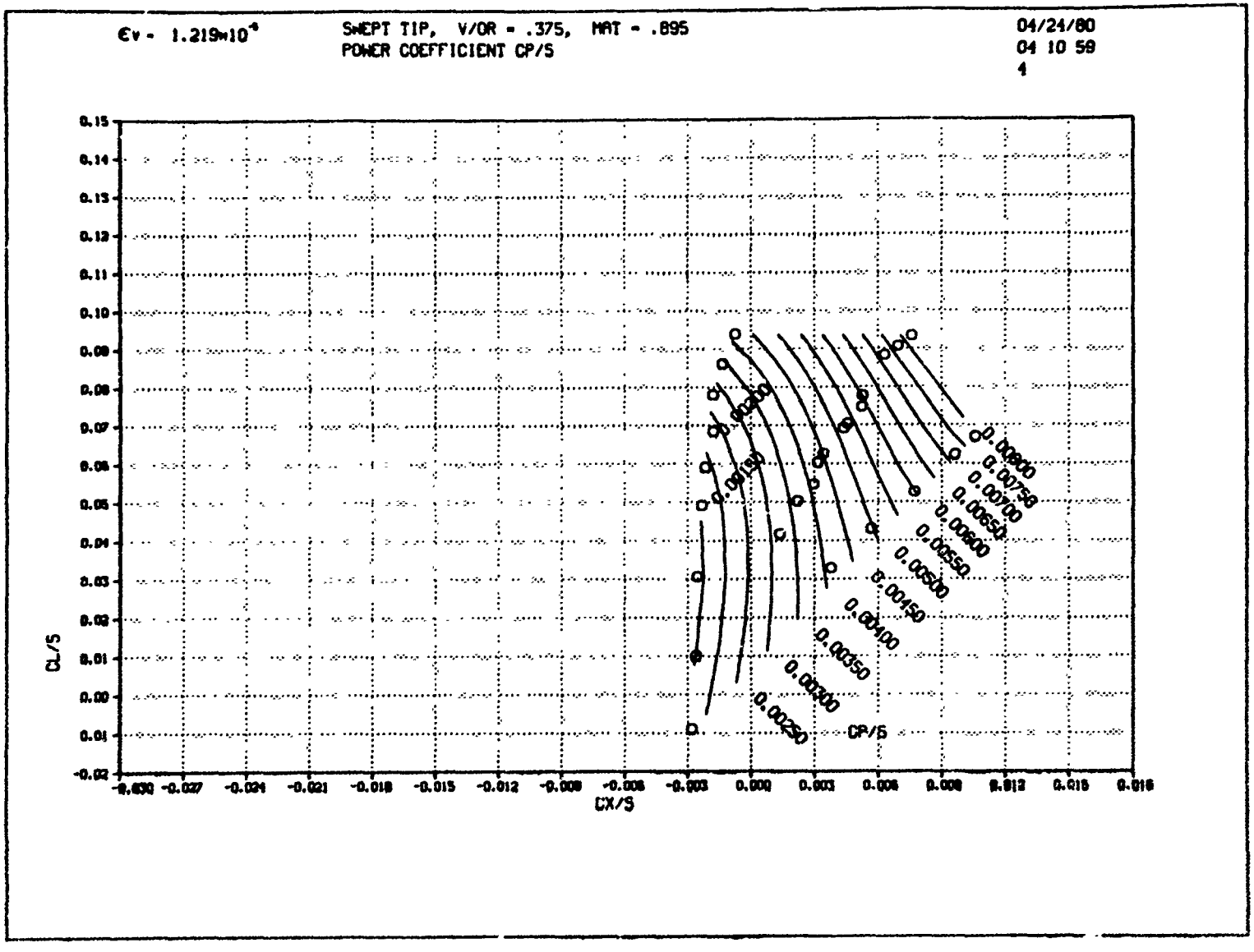

Ev - 1.753x10^-6
SWEPT/TAPERED TIP, V/OR - .375, MAT - .840
POWER COEFFICIENT CP/S
04/25/80
18 51 21
11
CL/S
CX/S
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400

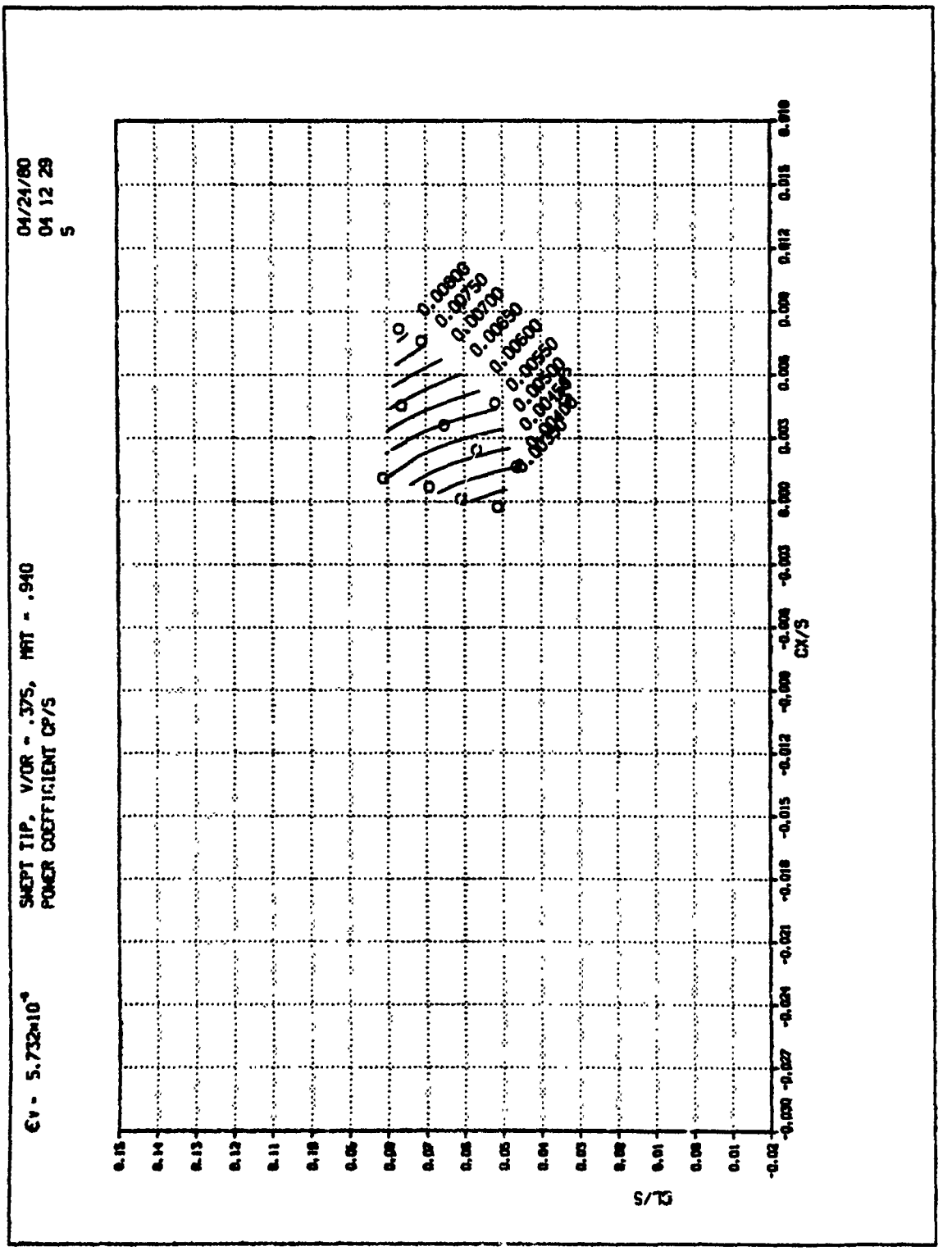

ϵ_v = 8.817×10^{-3}
SWEPT/TAPERED TIP, V/OR = .375, MAT = .965
POWER COEFFICIENT CP/S
04/25/80
18 58 05
12
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
CL/S
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018
CX/S
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500

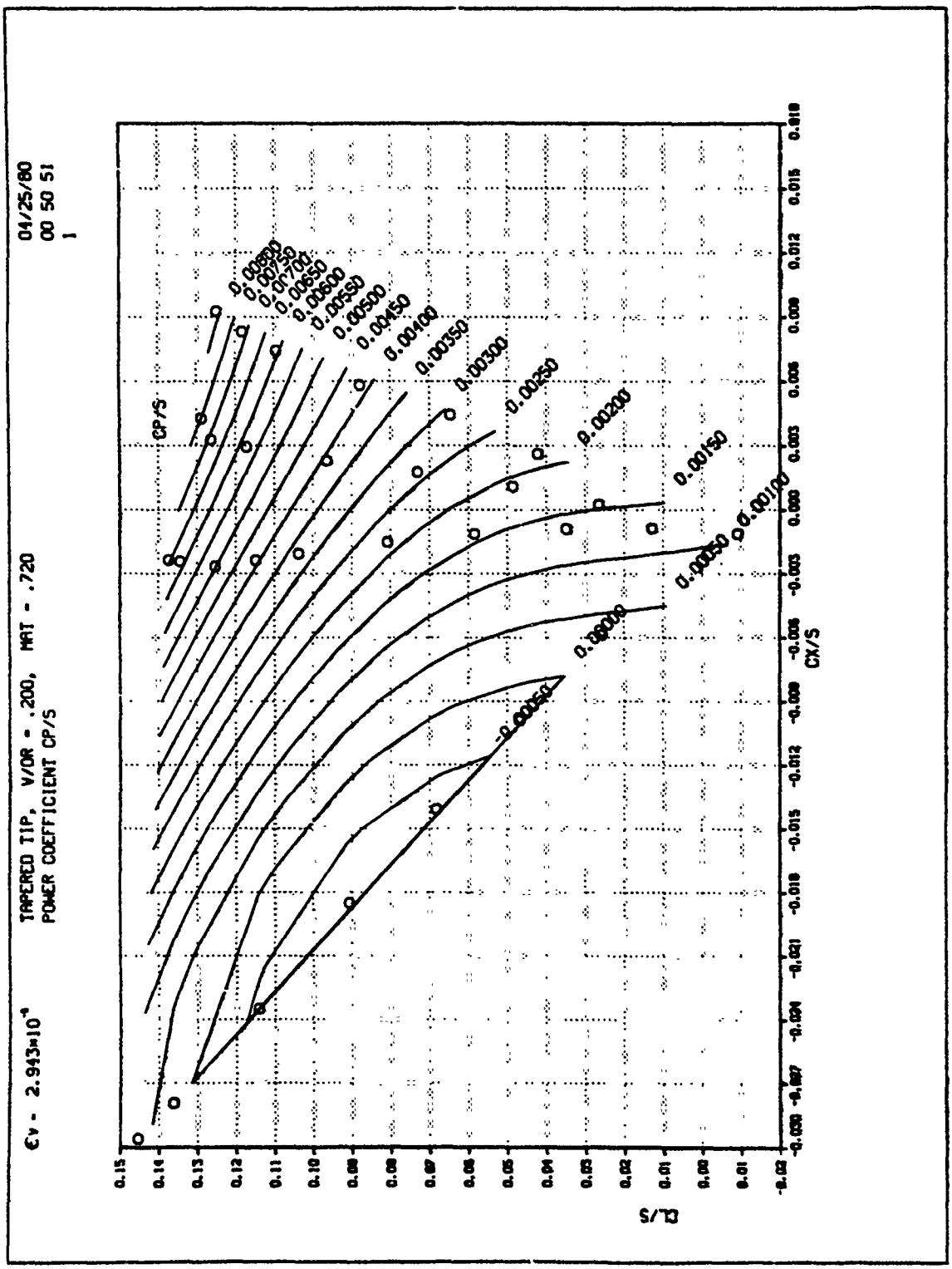

Ev = 3.345×10⁻⁶
SWEPT TIP, V/OR = .200, MAT = .720
POWER COEFFICIENT CP/S
04/24/80
04 06 11
1
CP/S
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
CL/S
CX/S

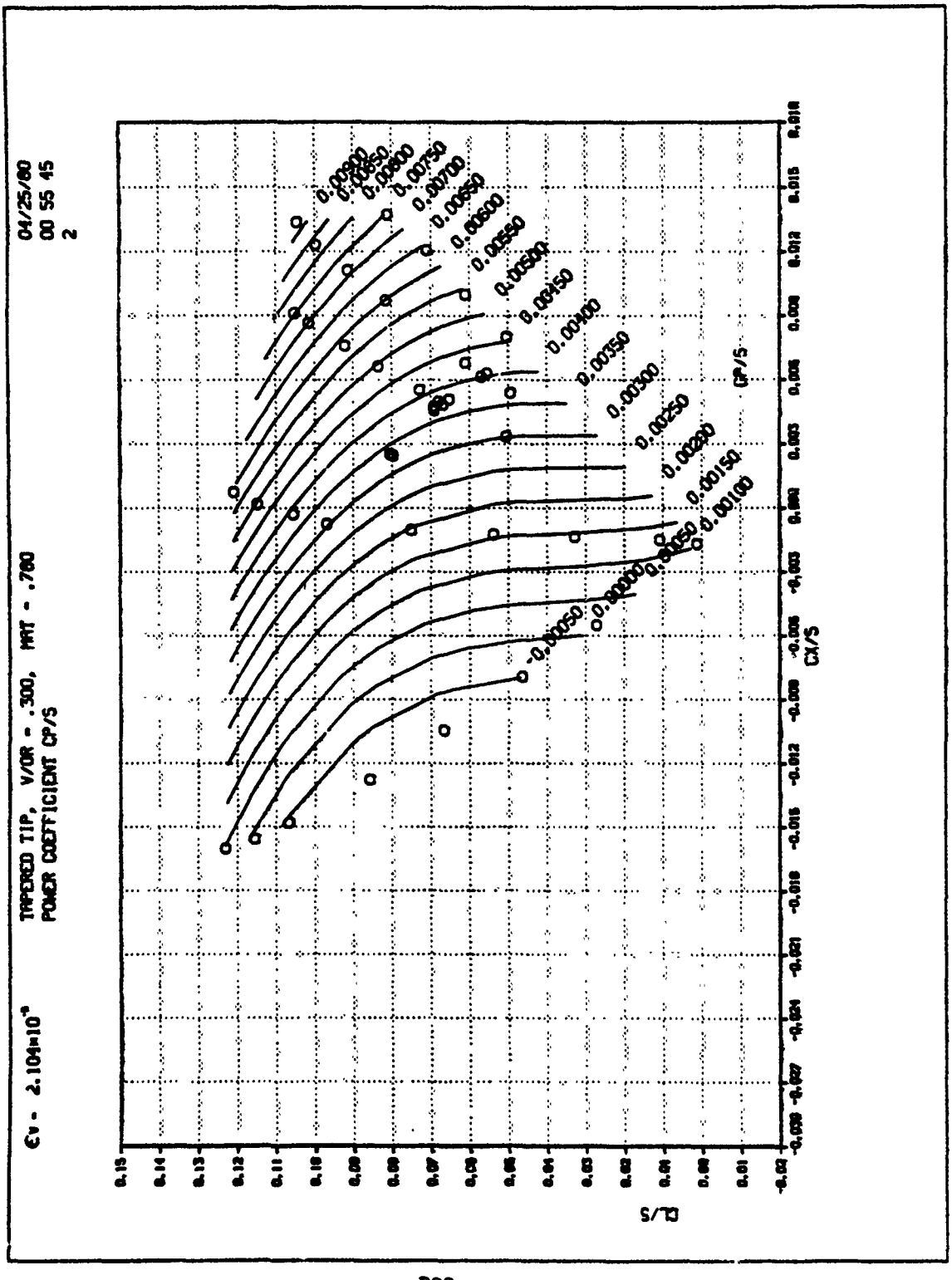

ϵ_v = 1.475×10⁻⁹
SWEPT TIP, V/OR = .300, MAT = .780
POWER COEFFICIENT CP/S
04/24/80
04 07 33
2
CL/S
CX/S
CP/S
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150

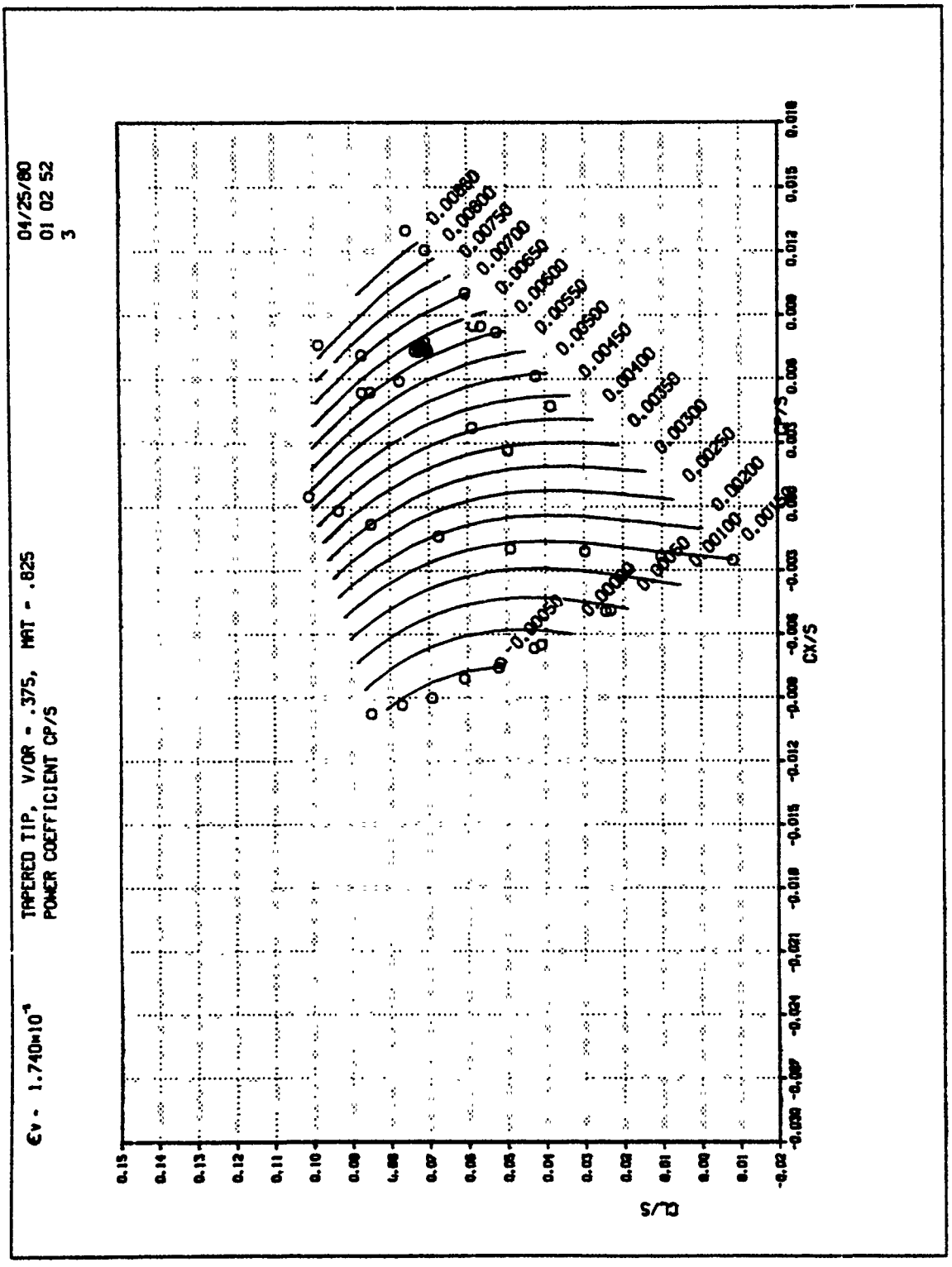

04/21/80
04 09 03
3
SWEPT TIP, V/OR = .375, MAT = .825
POWER COEFFICIENT CP/S
Ev = 1.650E+10⁻⁴
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
CP/S
CX/S
CL/S

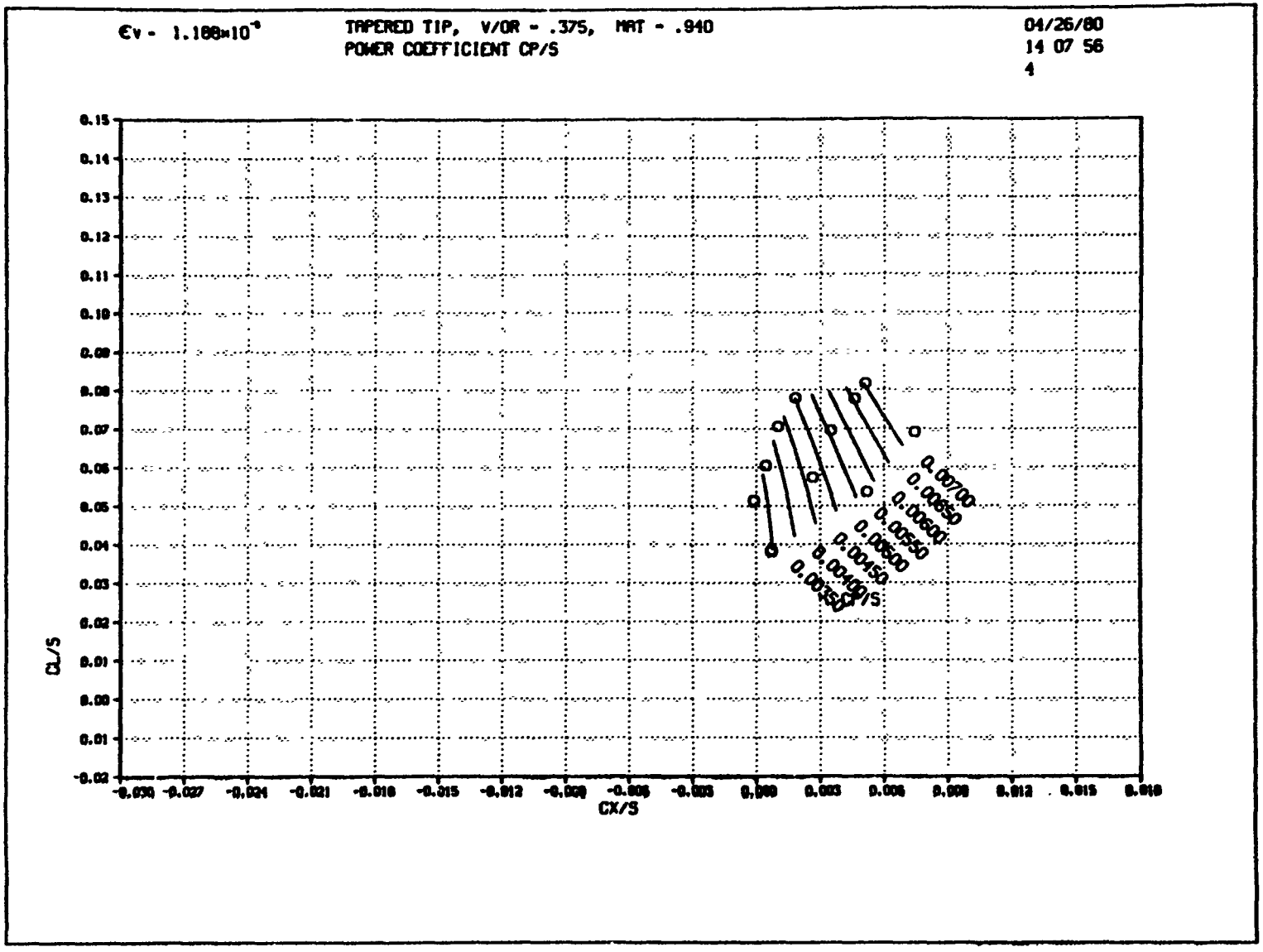

Ev - 1.219m10^-4
SWEPT TIP, V/OR = .375, MAT = .895
POWER COEFFICIENT CP/S
04/24/80
04 10 59
4
CL/S
CX/S
CP/S
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250

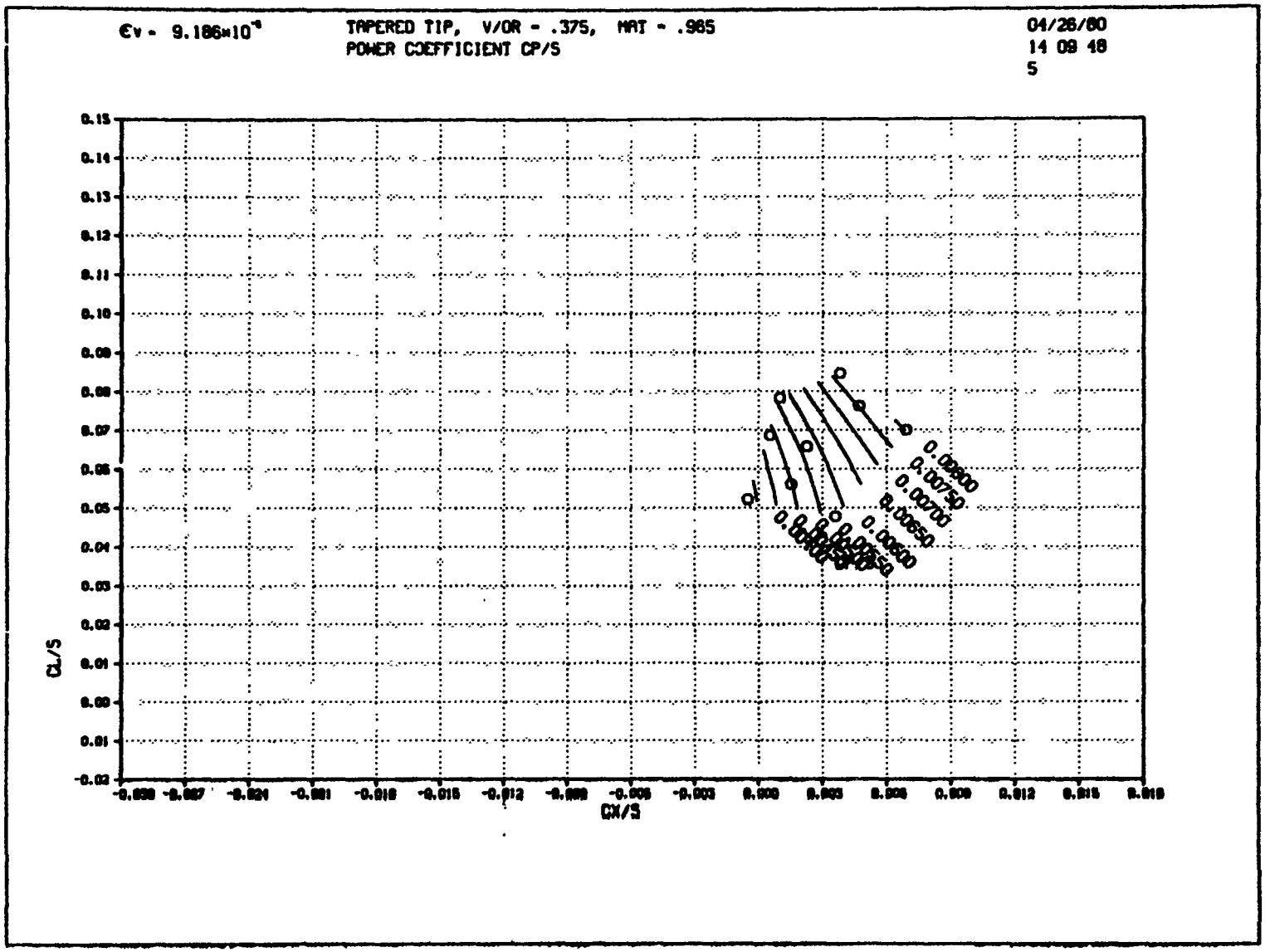

Rv - 5.732x10⁶
SWEPT TIP, V/OR = .375, MAT = .940
POWER COEFFICIENT CP/S
04/24/80
04 12 29
5
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
CL/S
CX/S

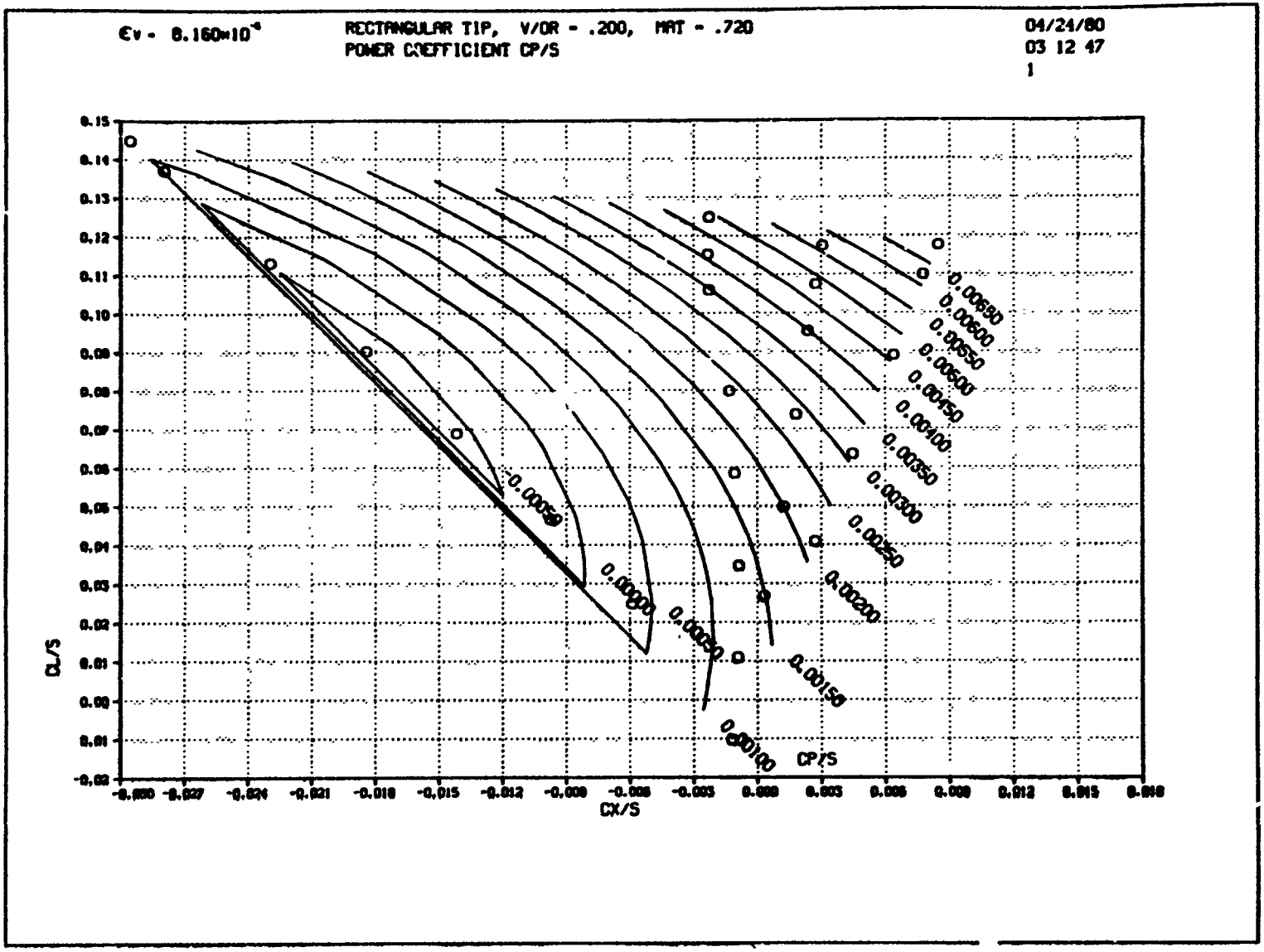

04/25/80
00 50 51
1
TAPERED TIP, V/OR = .200, MAT = .720
POWER COEFFICIENT CP/S
εv - 2.943×10⁻⁴
CP/S
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
0.00100
0.00050
0.00000
-0.00050
CL/S
CX/S

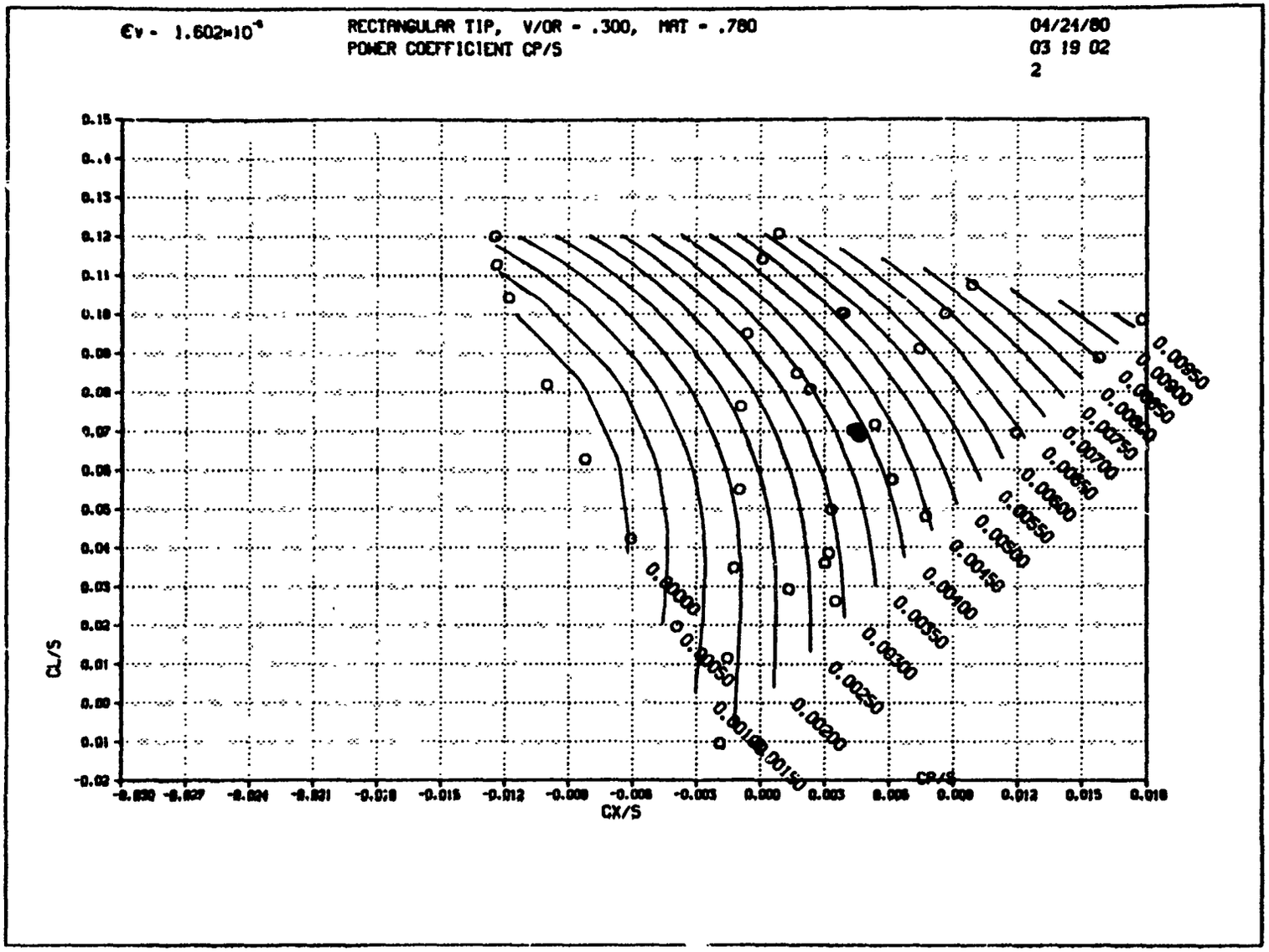

04/25/80
00 55 45
2
TAPERED TIP, V/OR = .300, MAT = .780
POWER COEFFICIENT CP/S
CL/S
CX/S
CP/S

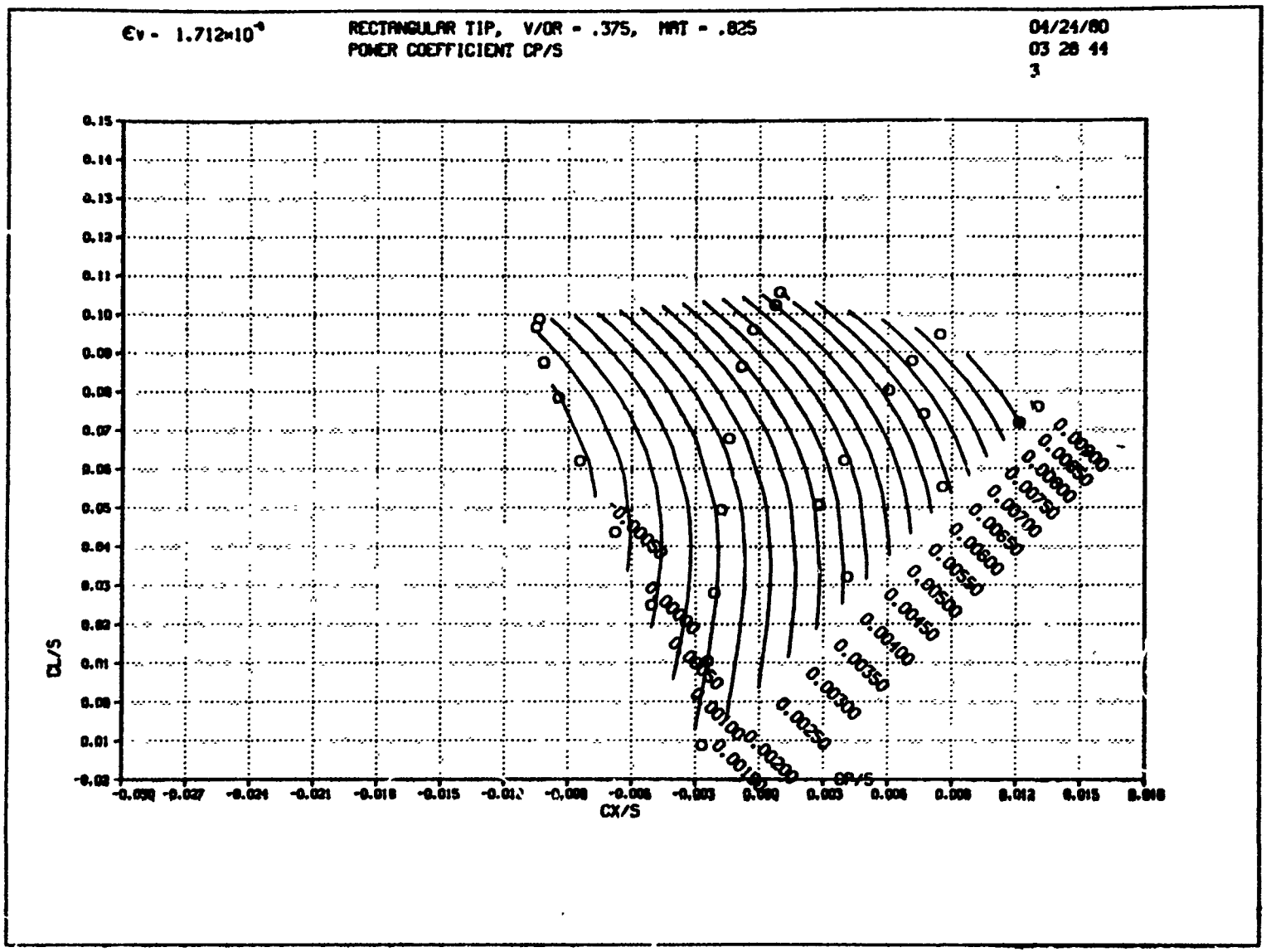

Ev - 1.740E-04
TAPERED TIP, V/OR = .375, MAT = .825
POWER COEFFICIENT CP/S
04/25/80
01 02 52
3
CL/S
CX/S
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
0.00100
0.00050
0.00000
-0.00050

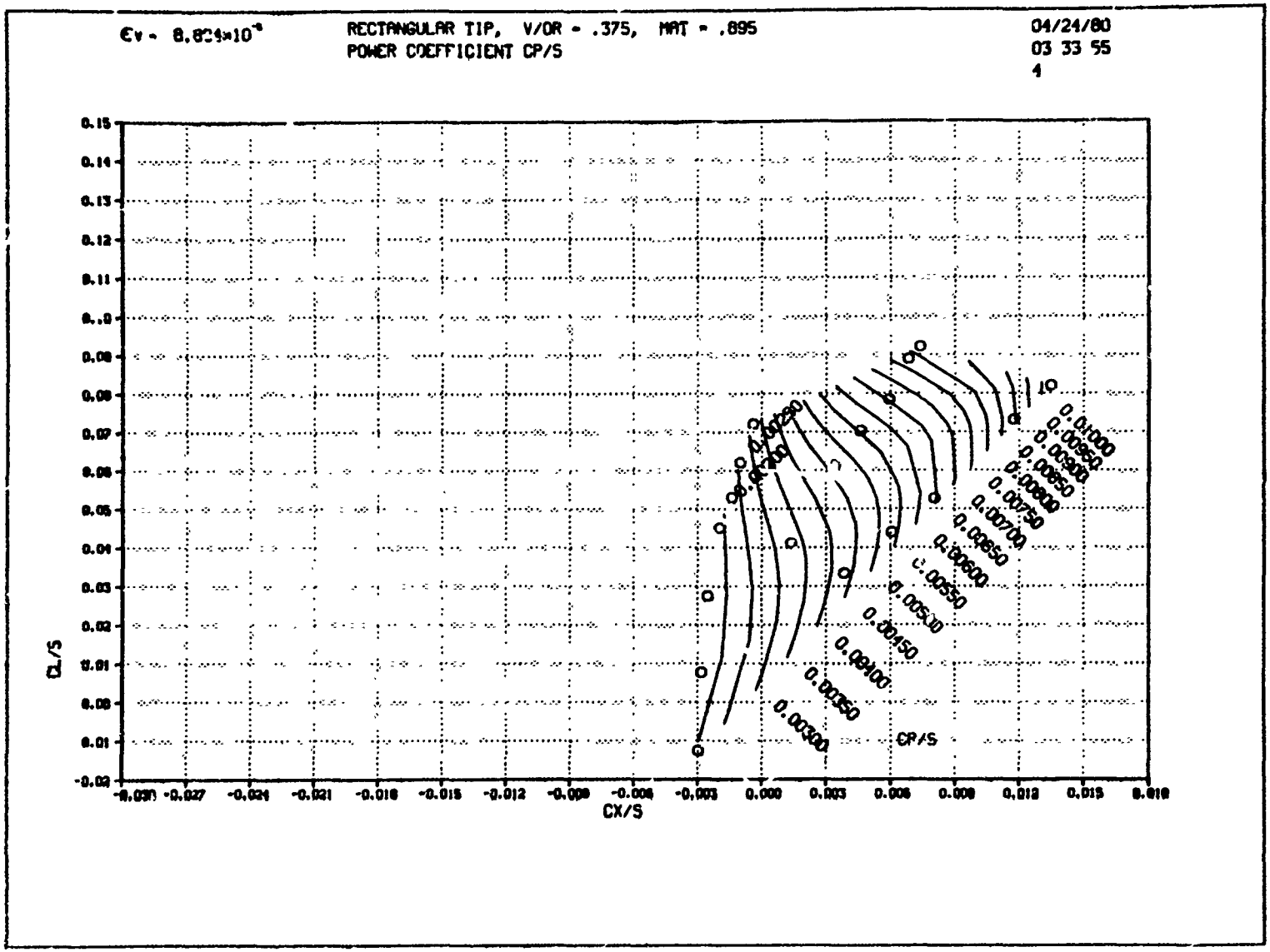

Ev - 1.188×10⁻⁶
TAPERED TIP, V/OR - .375, MAT - .940
POWER COEFFICIENT CP/S
04/26/80
14 07 56
4
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
CP/S

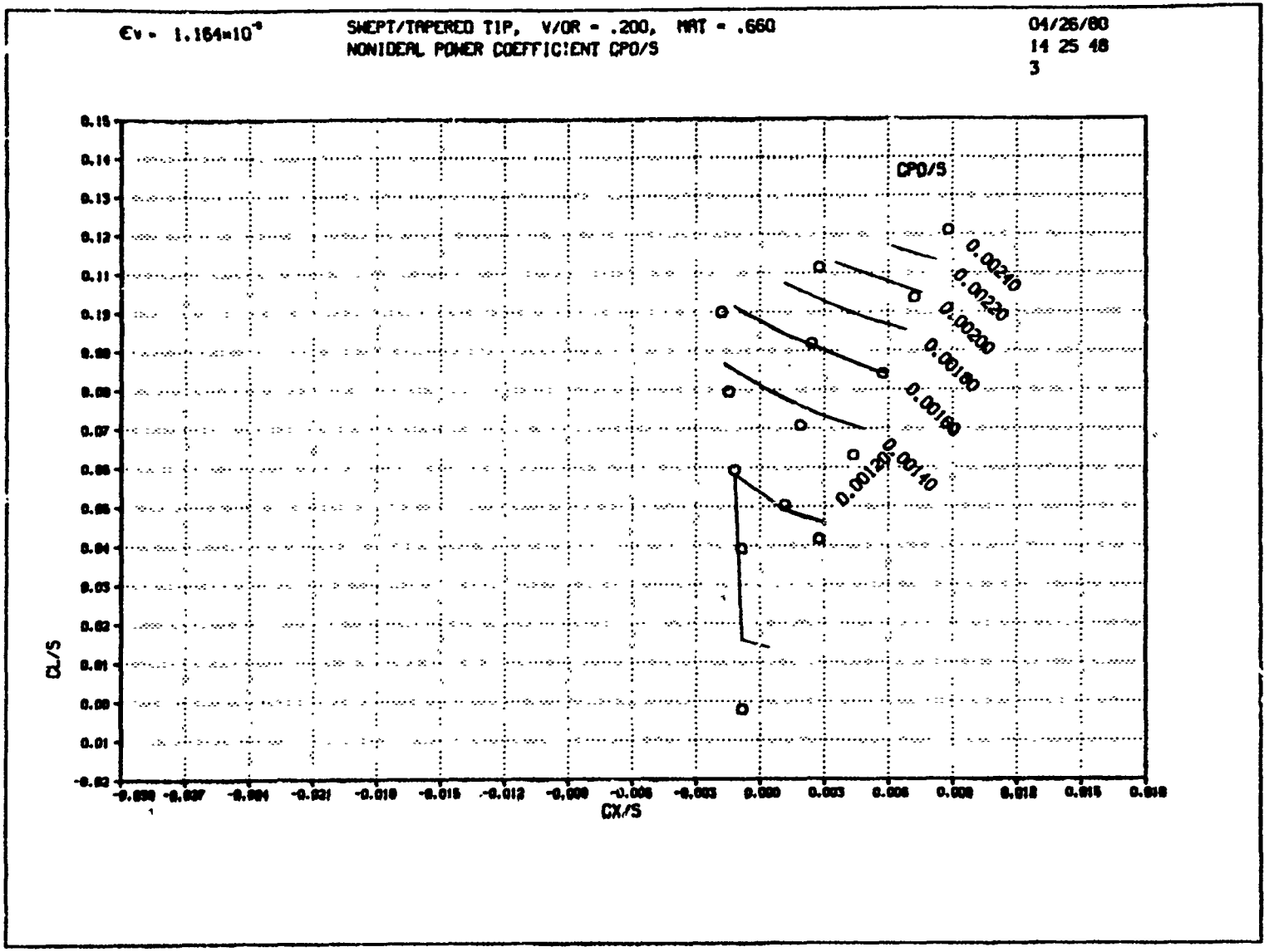

εv = 9.186×10⁻⁶
TAPERED TIP, V/OR = .375, MAT = .985
POWER COEFFICIENT CP/S
04/26/80
14 09 48
5
CL/S
CX/S
0.00800
0.00750
0.00700
0.00650
0.00600

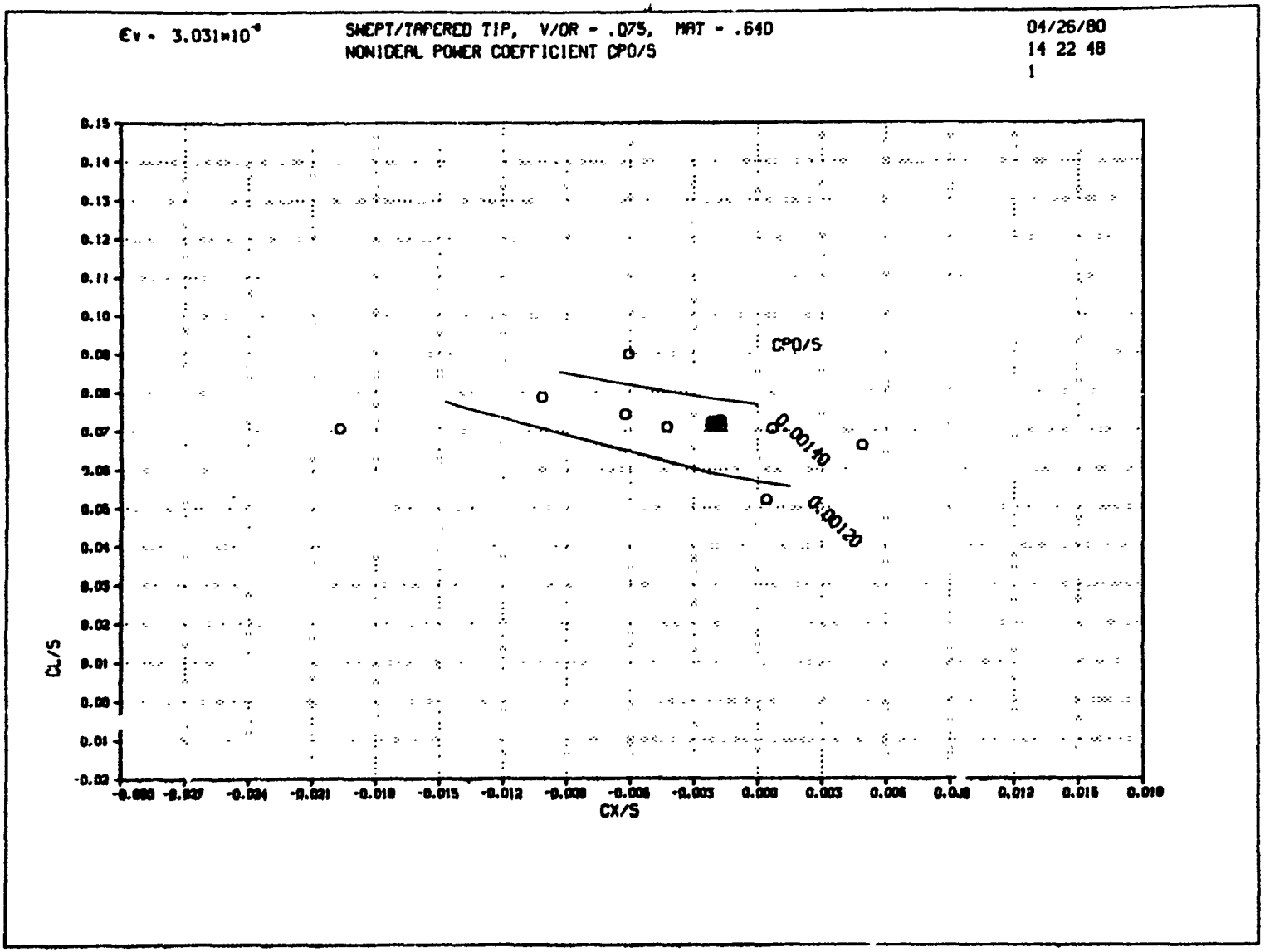

Ev - 8.160×10⁻⁴
RECTANGULAR TIP, V/OR - .200, MAT - .720
POWER COEFFICIENT CP/S
04/24/80
03 12 47
1
CL/S
CX/S
CP/S
0.00690
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
0.00100
0.00050

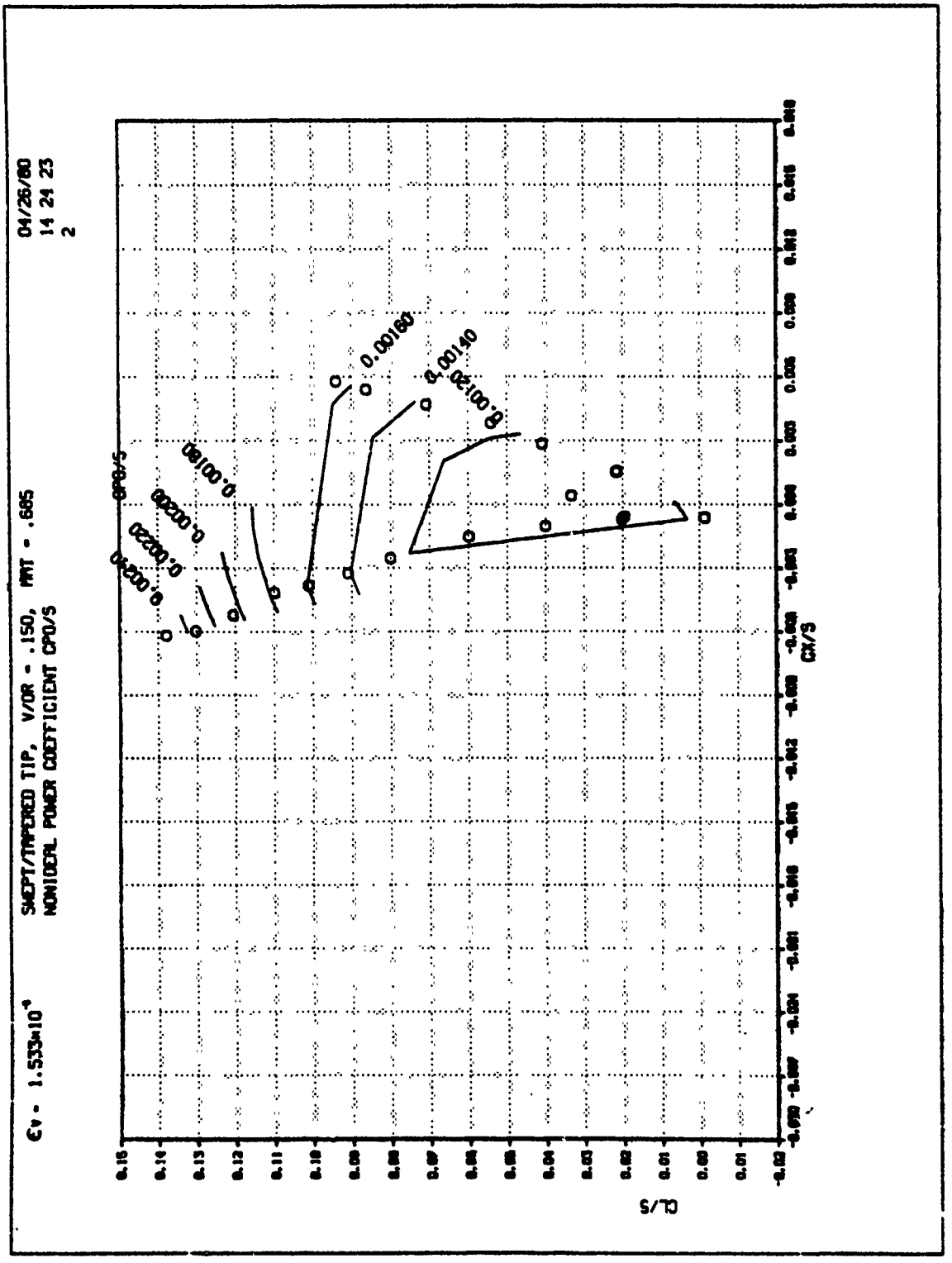

εv - 1.602×10⁻⁴
RECTANGULAR TIP, V/OR - .300, MAT - .780
POWER COEFFICIENT CP/S
04/24/80
03 19 02
2
CL/S
CX/S
CP/S
0.0000
0.0050
0.0100
0.0150
0.0200
0.0250
0.0300
0.0350
0.0400
0.0450
0.0500
0.0550
0.0600
0.0650
0.0700
0.0750
0.0800
0.0850
0.0900

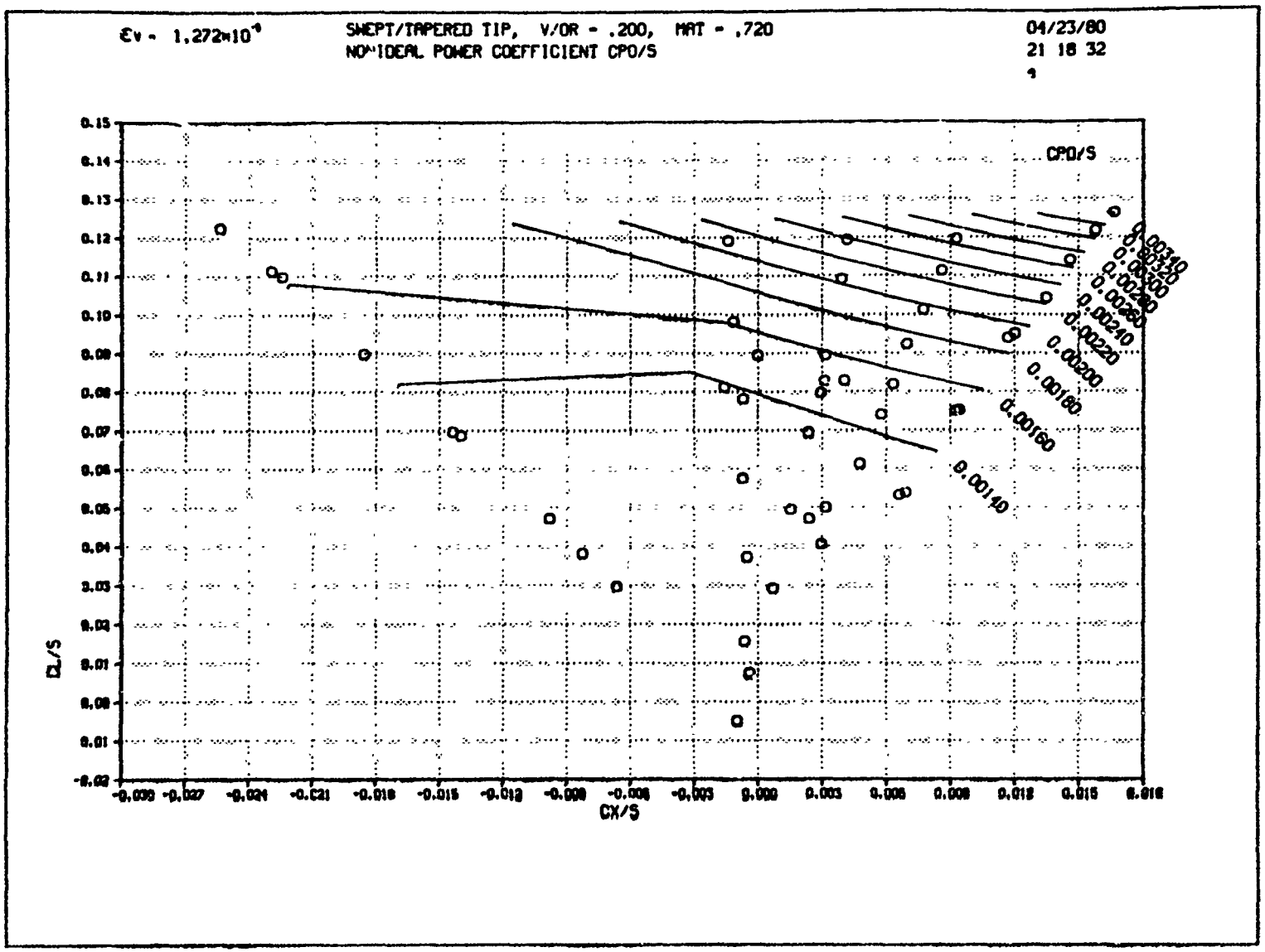

εv - 1.712×10⁻⁶
RECTANGULAR TIP, V/OR - .375, MRT - .825
POWER COEFFICIENT CP/S
04/24/80
03 28 44
3
CZ/S
CX/S
CP/S
0.00900
0.00850
0.00800
0.00750
0.00700
0.00650
0.00600
0.00550
0.00500
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200

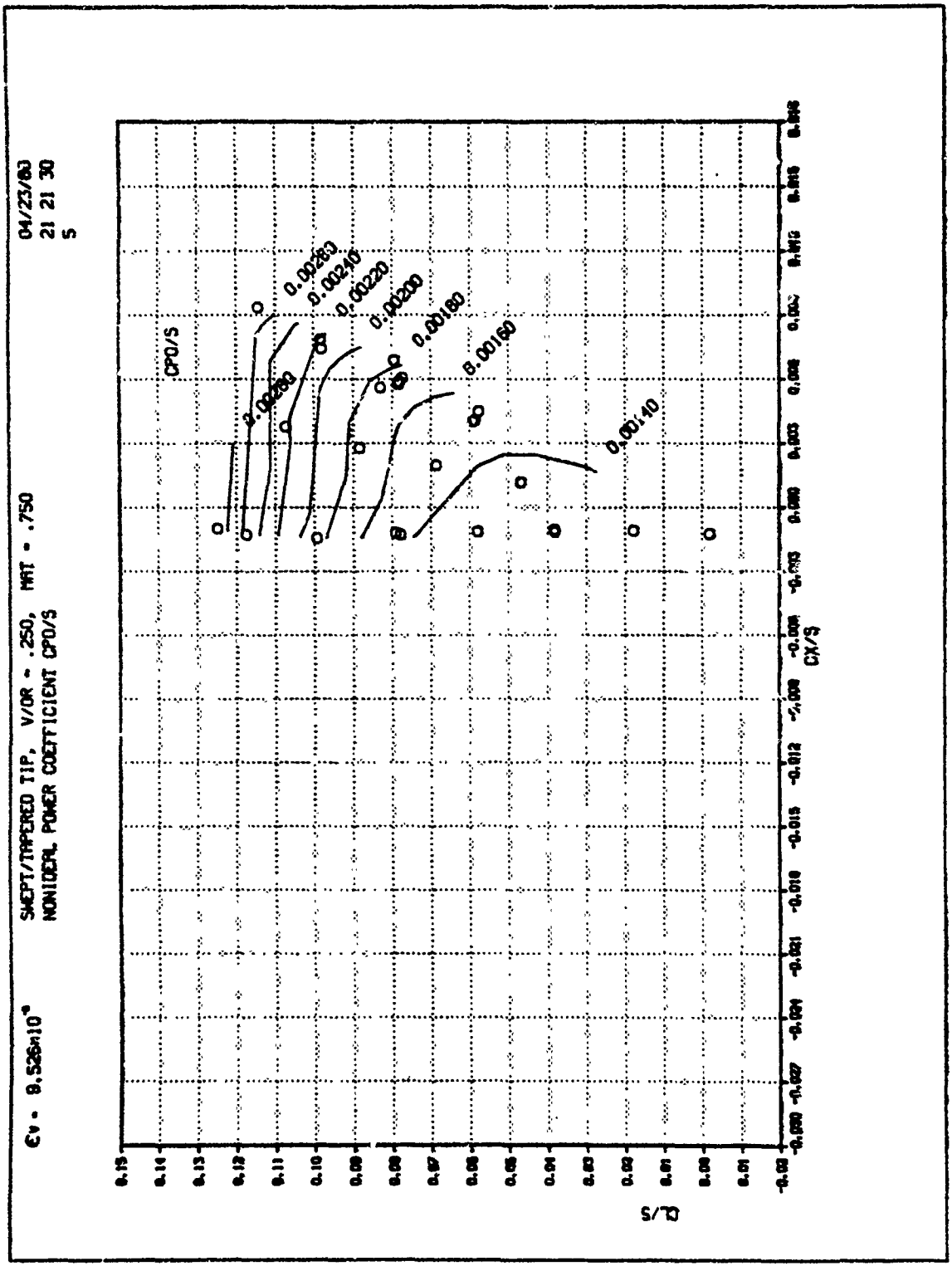

Ev = 8.824×10⁻⁶
RECTANGULAR TIP, V/OR = .375, MAT = .895
POWER COEFFICIENT CP/S
04/24/80
03 33 55
4
CL/S
CX/S
CP/S
0.00300
0.00350
0.00400
0.00450
0.00500
0.00550
0.00600
0.00650
0.00700
0.00750
0.00800
0.00850
0.00900
0.00950
0.01000

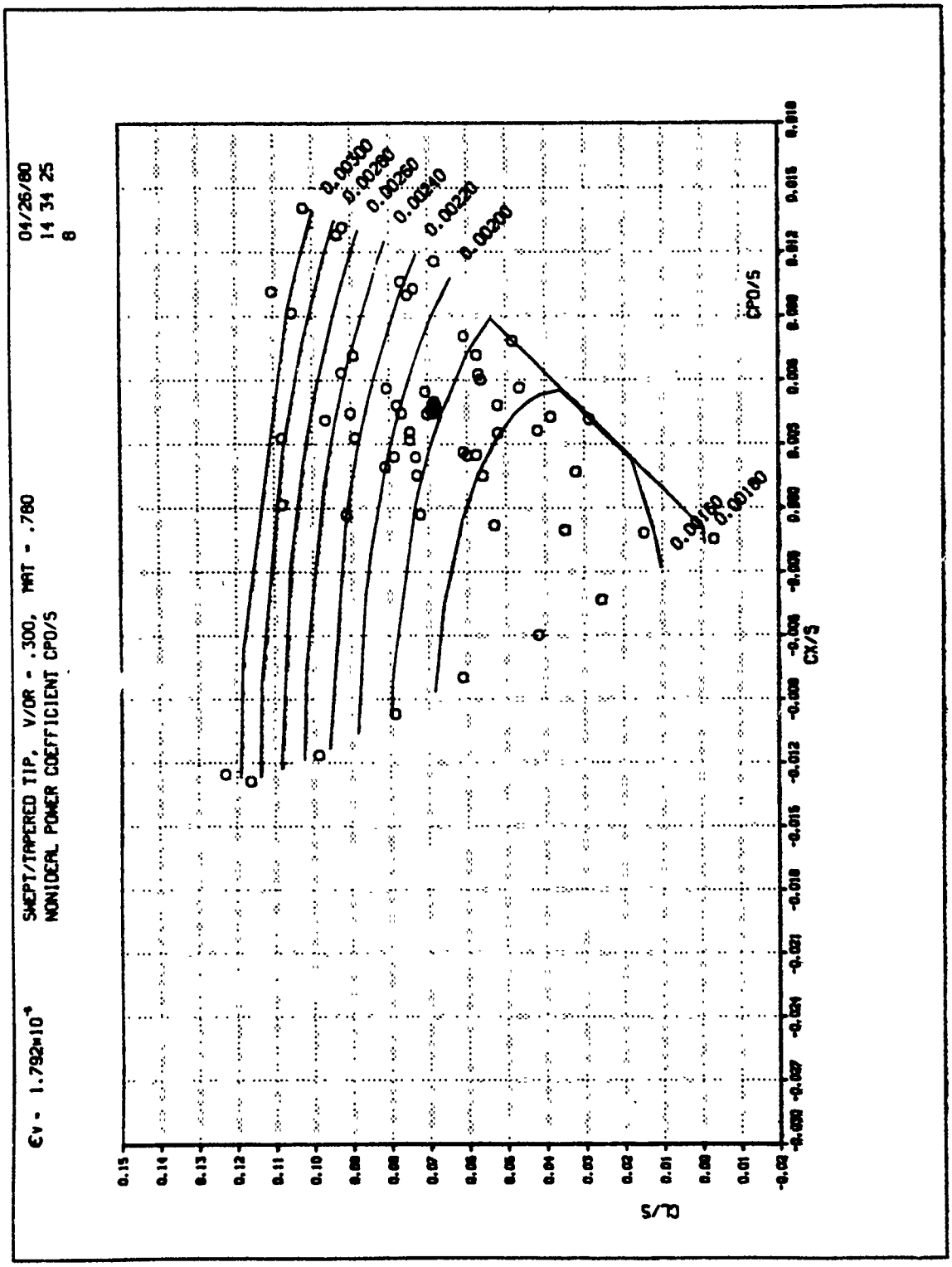

Ev = 1.164×10⁻⁵
SWEPT/TAPERED TIP, V/OR = .200, MAT = .660
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 25 48
3
CPO/S
0.00240
0.00220
0.00200
0.00180
0.00160
0.00140
CL/S
CX/S

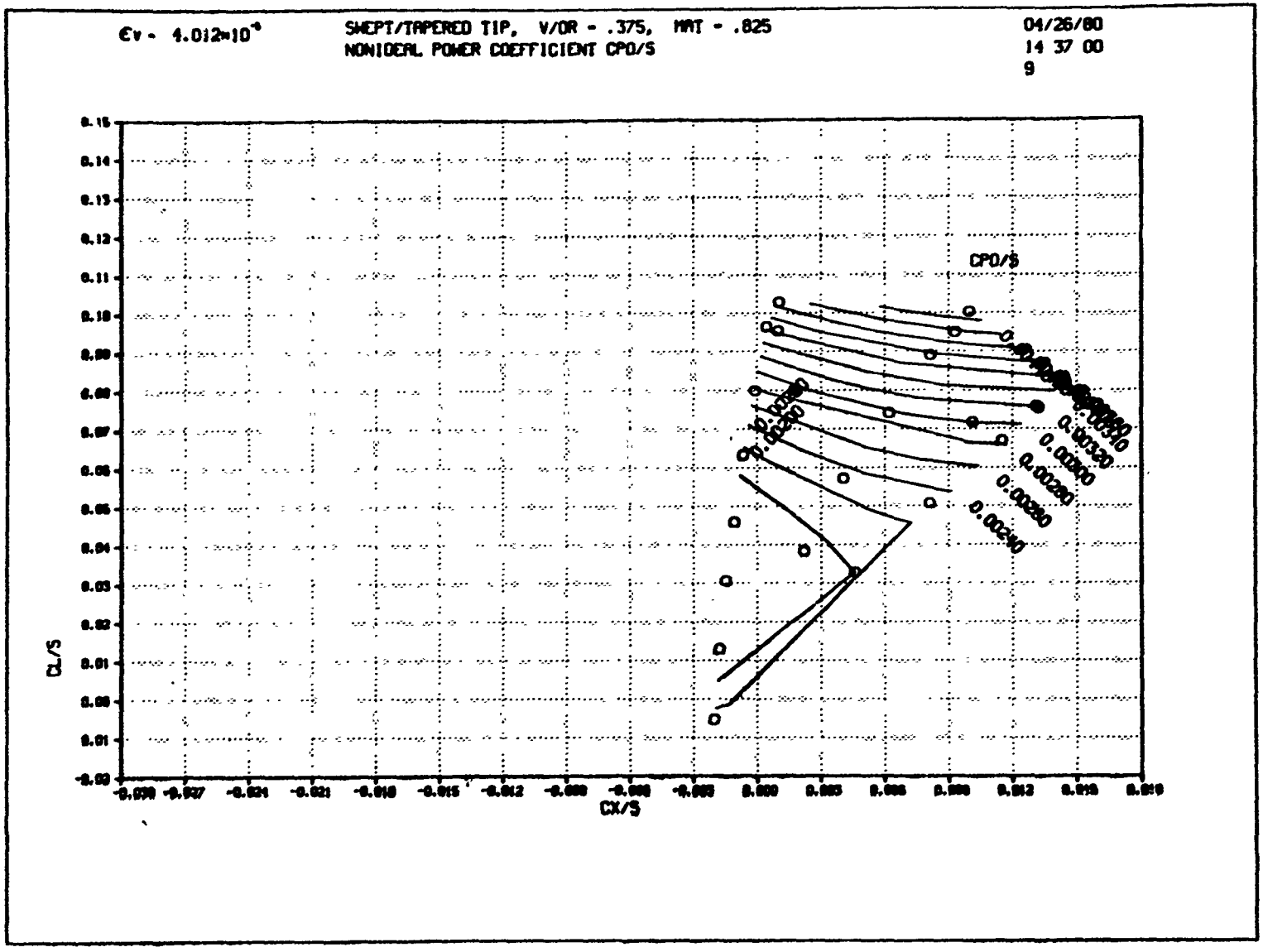

Ev = 3.031×10⁻⁴
SWEPT/TAPERED TIP, V/OR = .075, MAT = .640
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 22 48
1
CPO/S
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

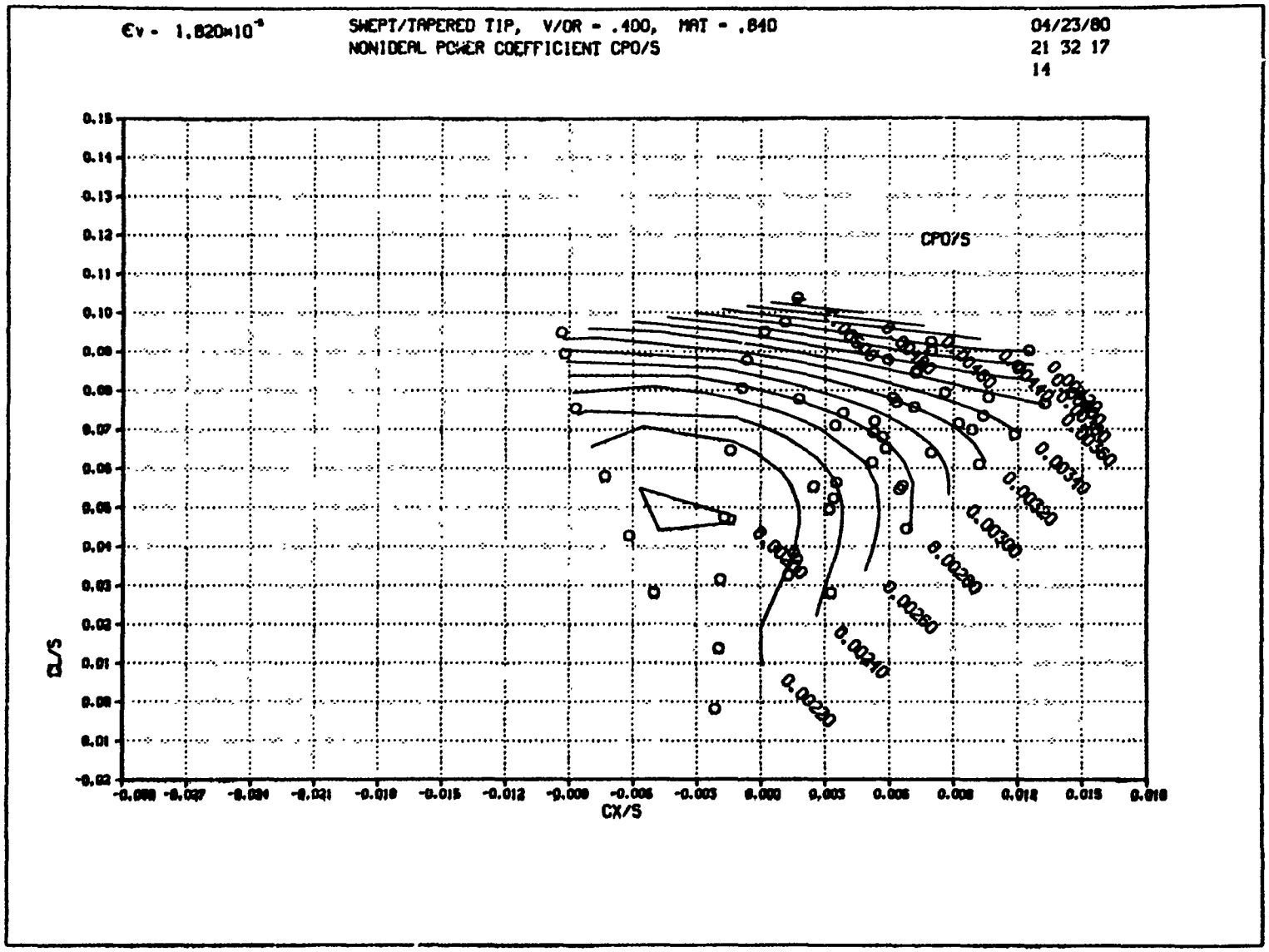

Re = 1.533x10⁶
SWEPT/TAPERED TIP, V/OR = .150, MNT = .685
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 24 23
2
0.00160
0.00140
0.00120
0.00100
0.00080
0.00060
0.00040
CL/S
CM/S

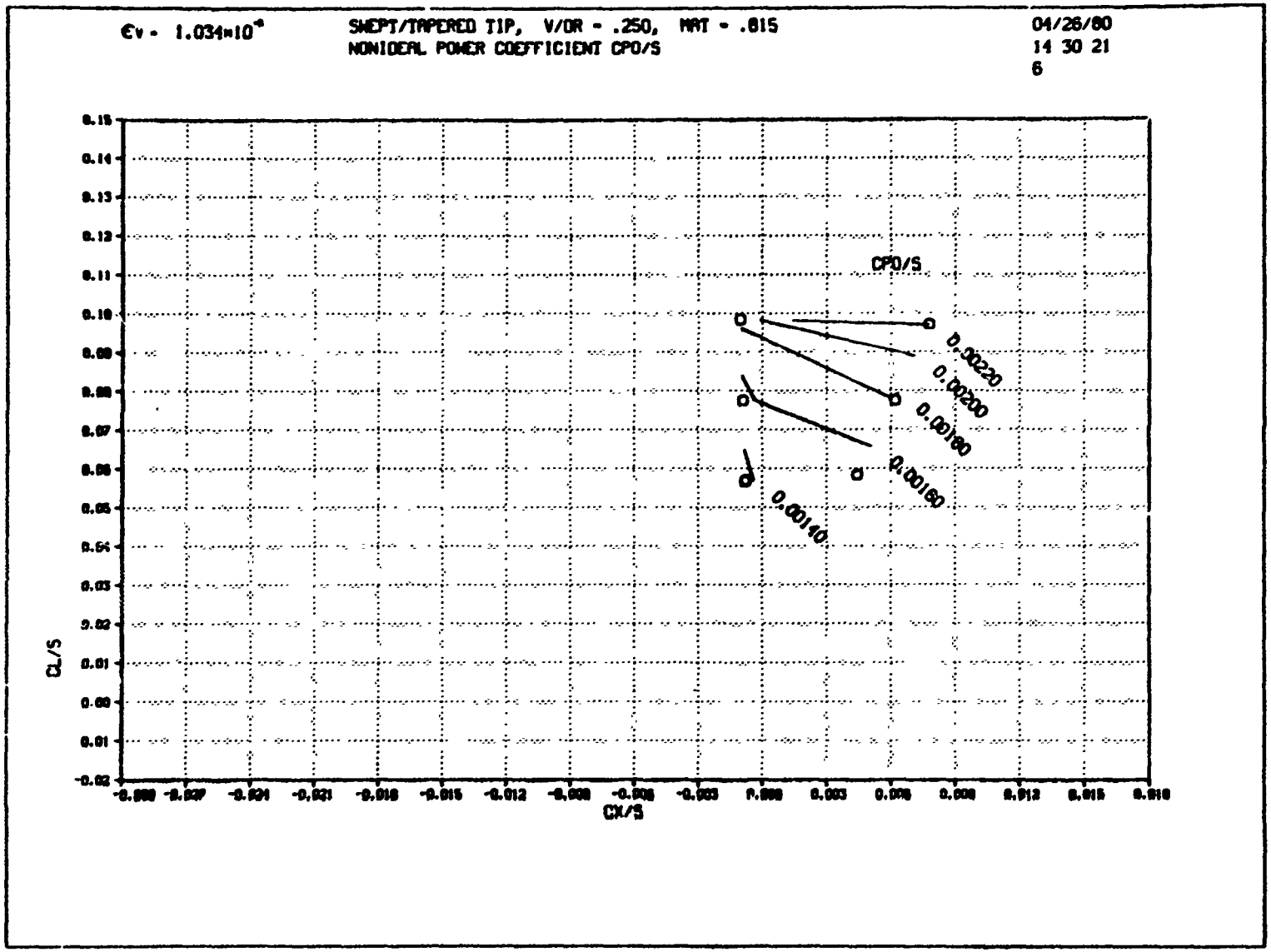

Ev - 1.272x10⁻⁹
SWEPT/TAPERED TIP, V/OR - .200, MAT - .720
NONIDEAL POWER COEFFICIENT CPD/S
04/23/80
21 18 32
CPD/S
0.00340
0.00320
0.00300
0.00280
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
0.00140
CL/S
CX/S

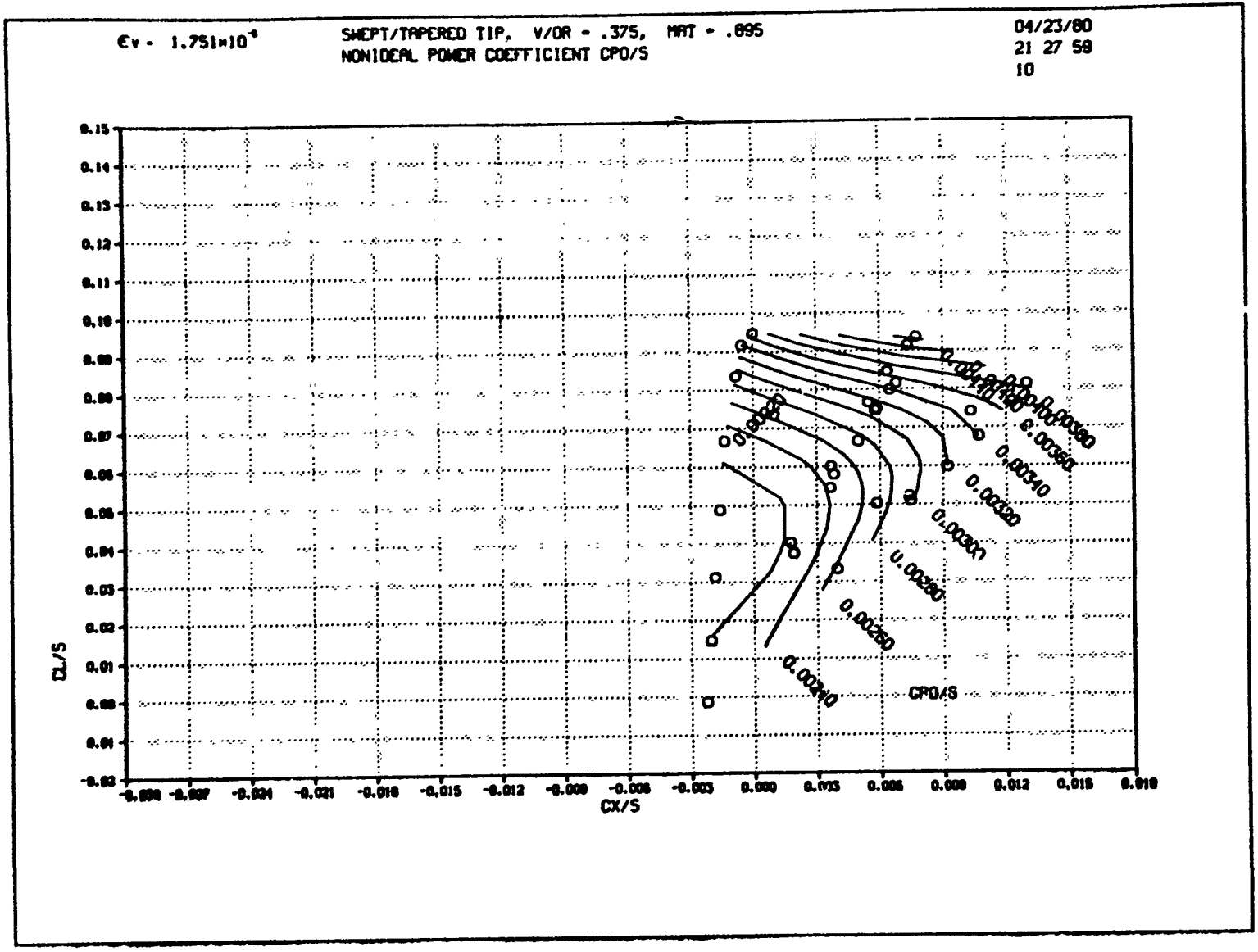

SWEPT/TAPERED TIP, V/OR = .250, MAT = .750
NONIDEAL POWER COEFFICIENT CPO/S
04/23/83
21 21 30
5
CPO/S
0.00280
0.00240
0.00220
0.00200
0.00180
0.00160
0.00140
CX/S
CL/S

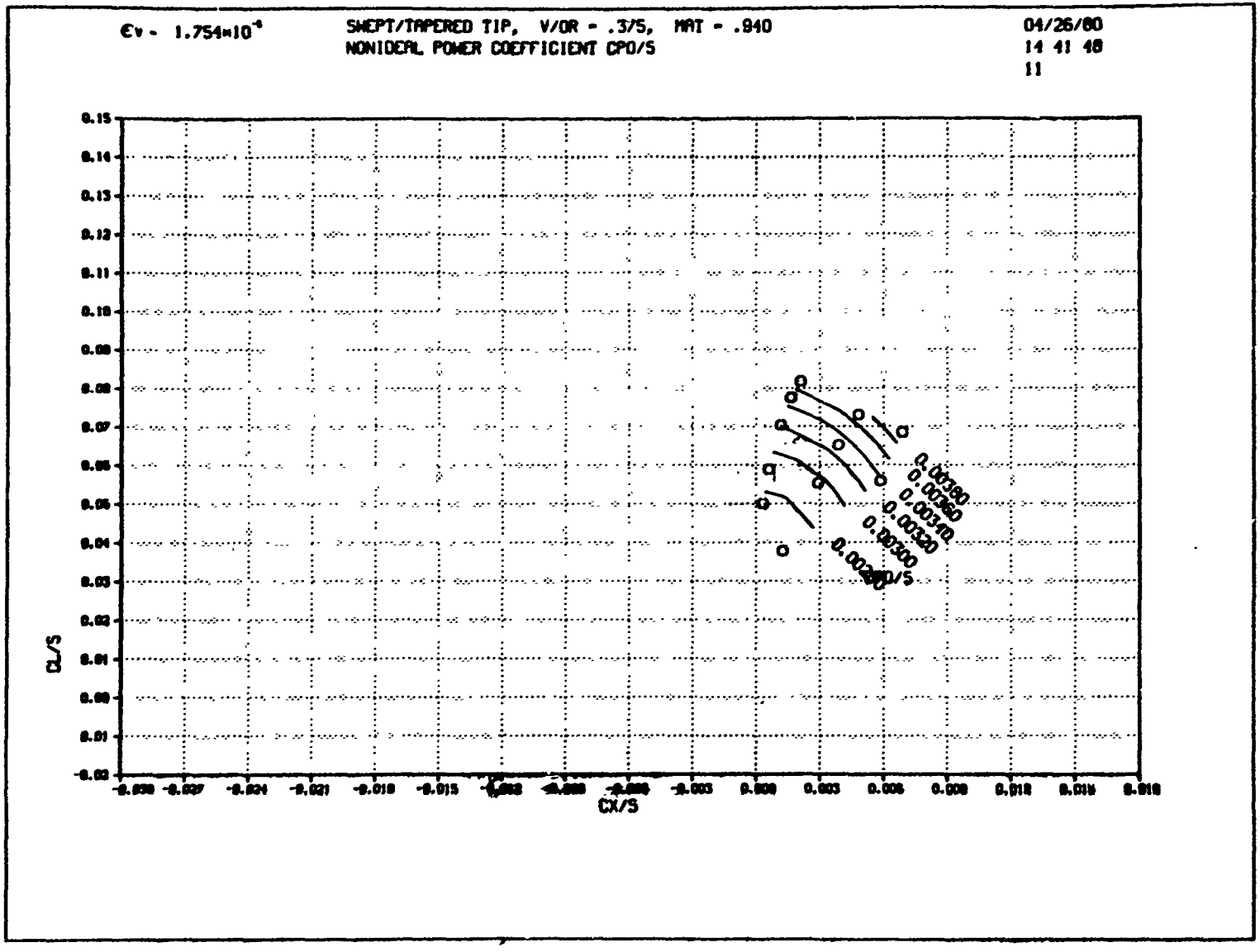

SWEPT/TAPERED TIP, V/OR - .300, MAT - .780
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 34 25
8
Ev - 1.792e+10⁻⁴
0.00300
0.00280
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
CPO/S
CX/S
CZ/S

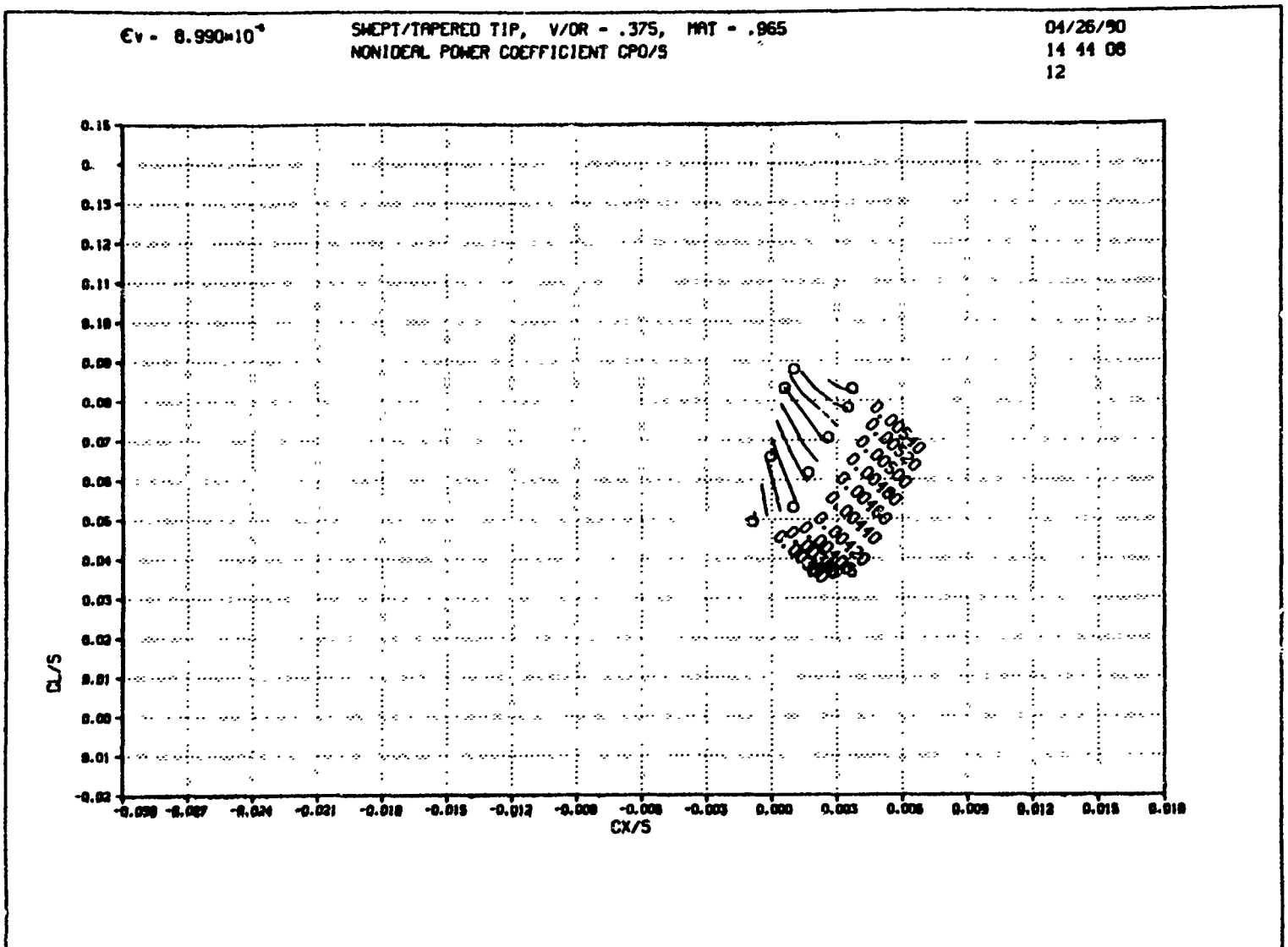

Ev - 4.012e-05
SWEPT/TAPERED TIP, V/OR - .375, MAT - .825
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 37 00
9
CPO/S
0.00330
0.00300
0.00280
0.00260
0.00240
CL/S
CX/S

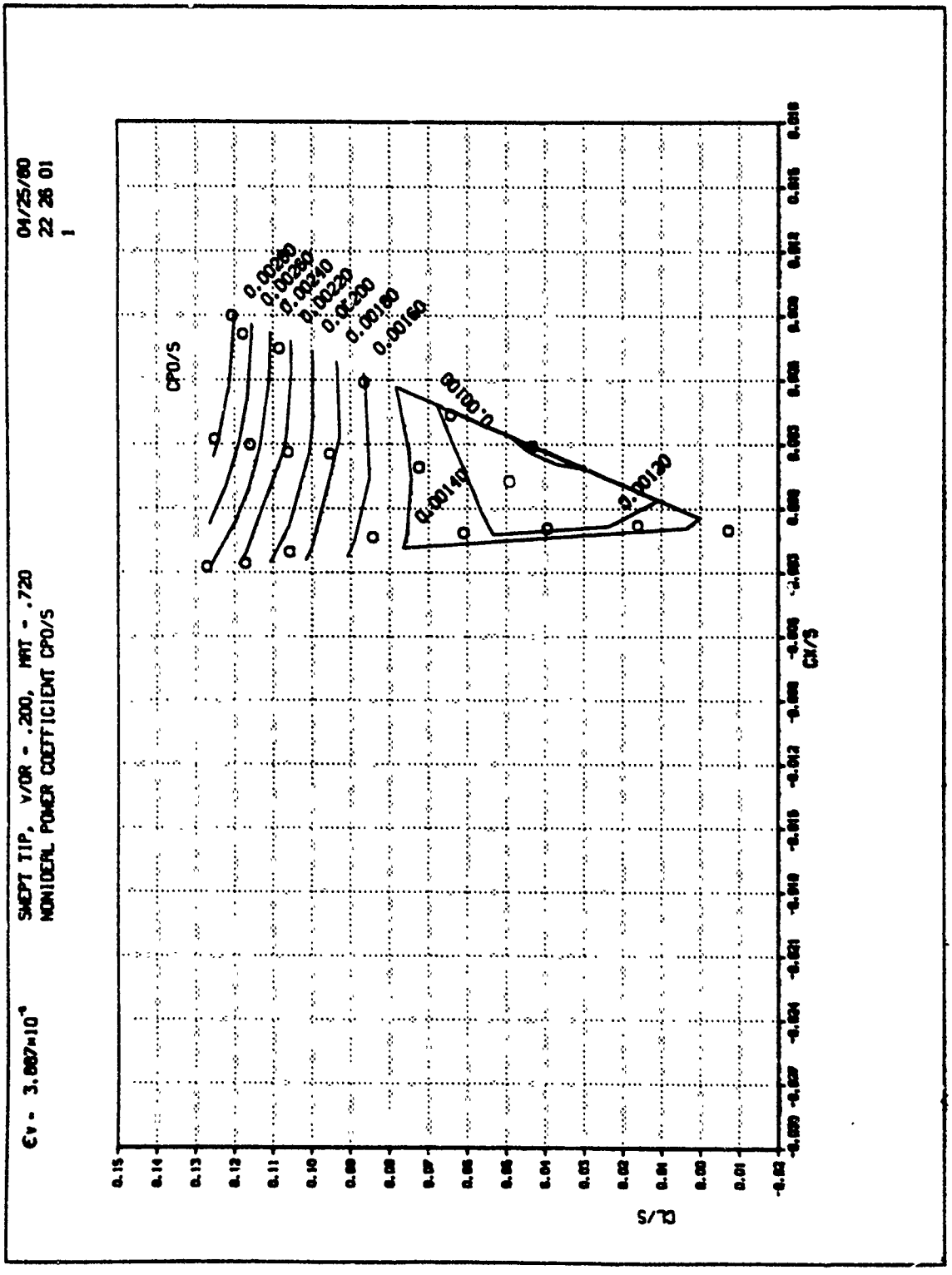

Ev - 1.820x10^-6
SWEPT/TAPERED TIP, V/OR - .400, MAT - .840
NONIDEAL POWER COEFFICIENT CPO/S
04/23/80
21 32 17
14
CPO/S
CZ/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.009 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018
0.00310
0.00300
0.00290
0.00280
0.00270
0.00260
0.00250
0.00240
0.00230
0.00220

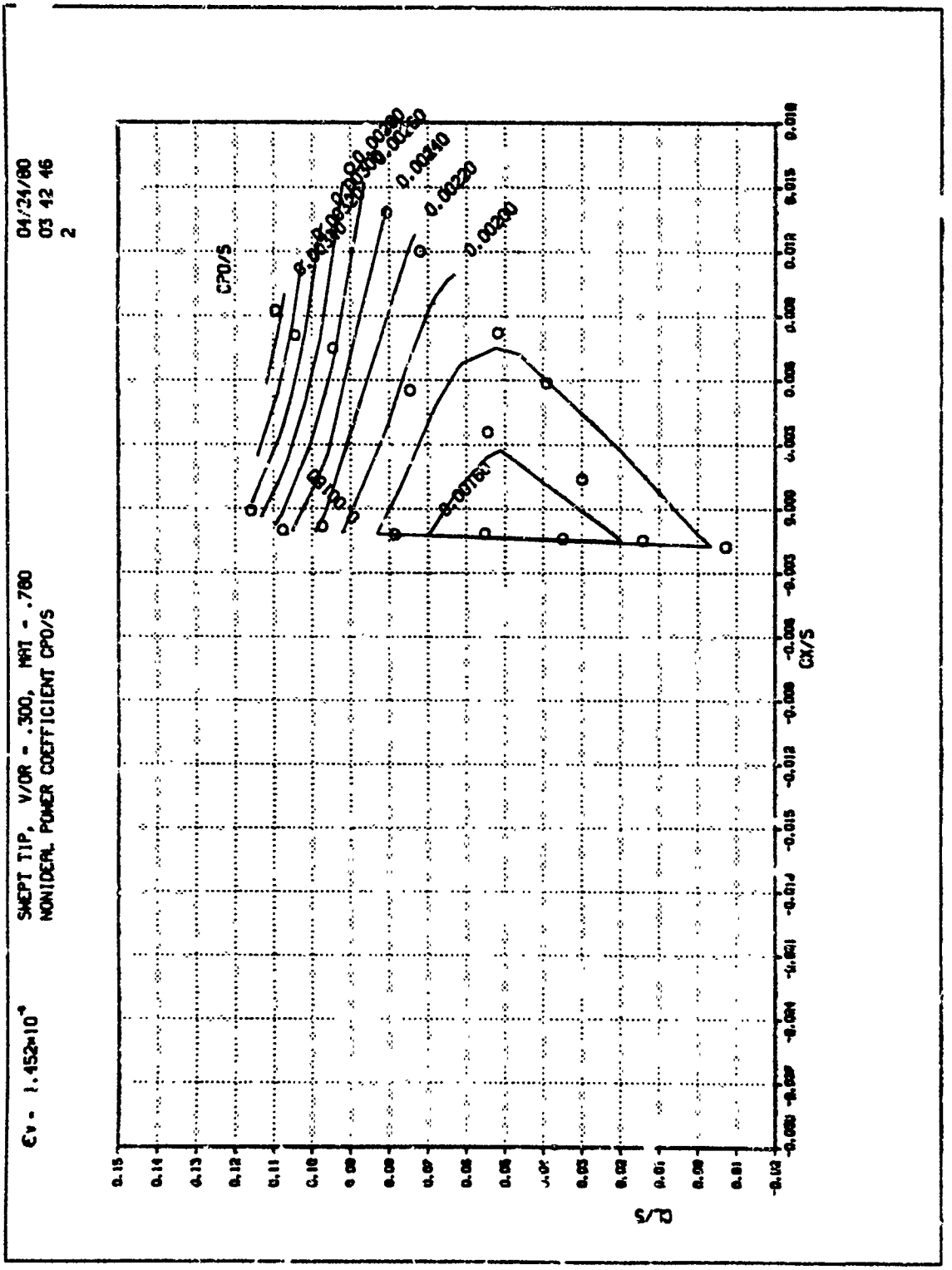

Ev - 1.034*10^-6
SWEPT/TAPERED TIP, V/OR - .250, MAT - .815
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 30 21
6
CPO/S
0.00220
0.00200
0.00180
0.00160
0.00140
CL/S
CX/S

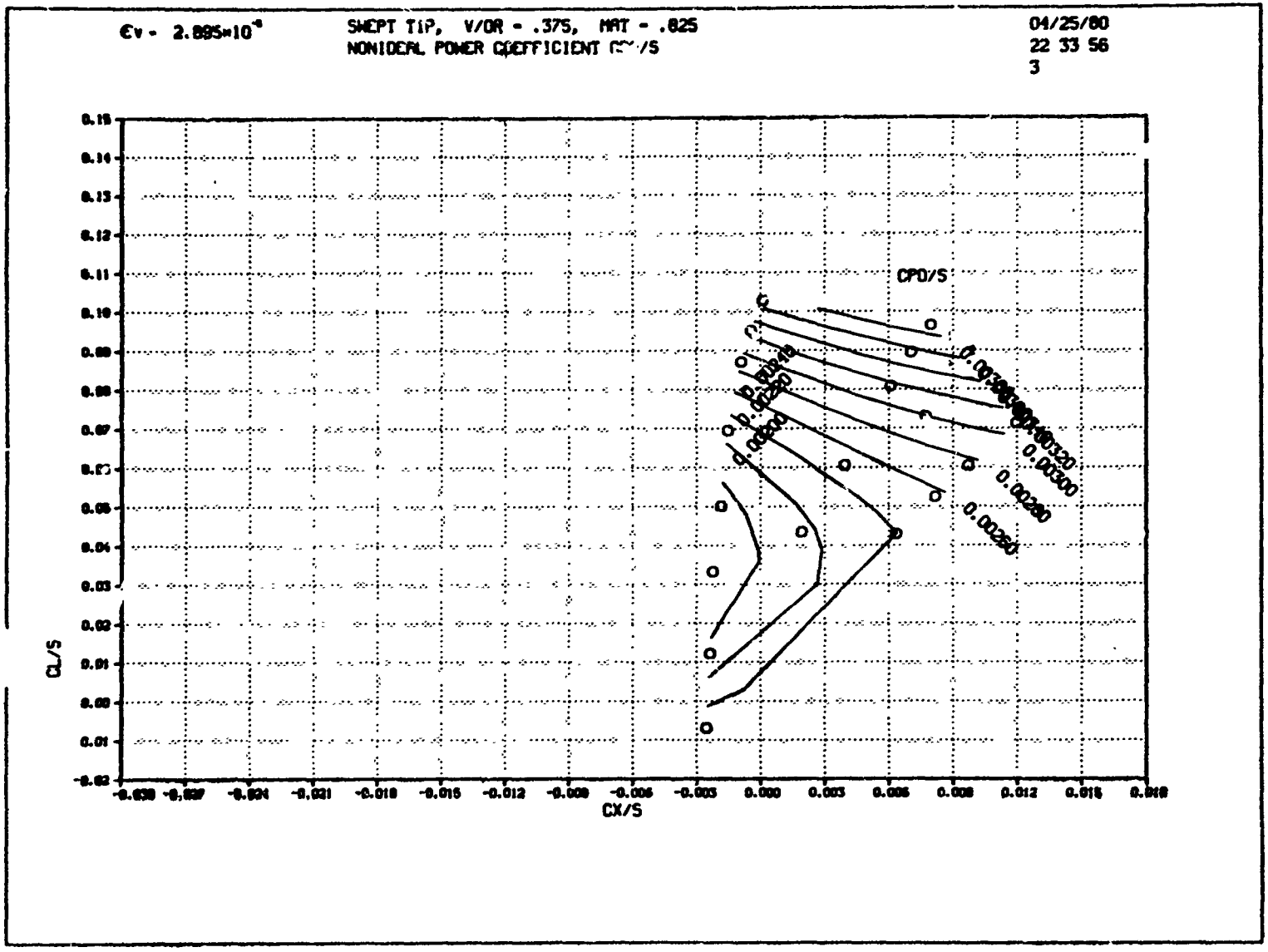

Ev - 1.751×10⁻⁶
SWEPT/TAPERED TIP, V/OR - .375, MAT - .895
NONIDEAL POWER COEFFICIENT CPO/S
04/23/80
21 27 59
10
CL/S
CX/S
CPO/S
0.00340
0.00360
0.00380
0.00400
0.00420
0.00440
0.00460
0.00480
0.00500
0.00520
0.00540
0.00560
0.00580
0.00600
0.00620
0.00640
0.00660
0.00680
0.00700
0.00720
0.00740
0.00760
0.00780
0.00800
0.00820
0.00840
0.00860
0.00880
0.00900
0.00920
0.00940
0.00960
0.00980
0.01000
0.01020
0.01040
0.01060
0.01080
0.01100
0.01120

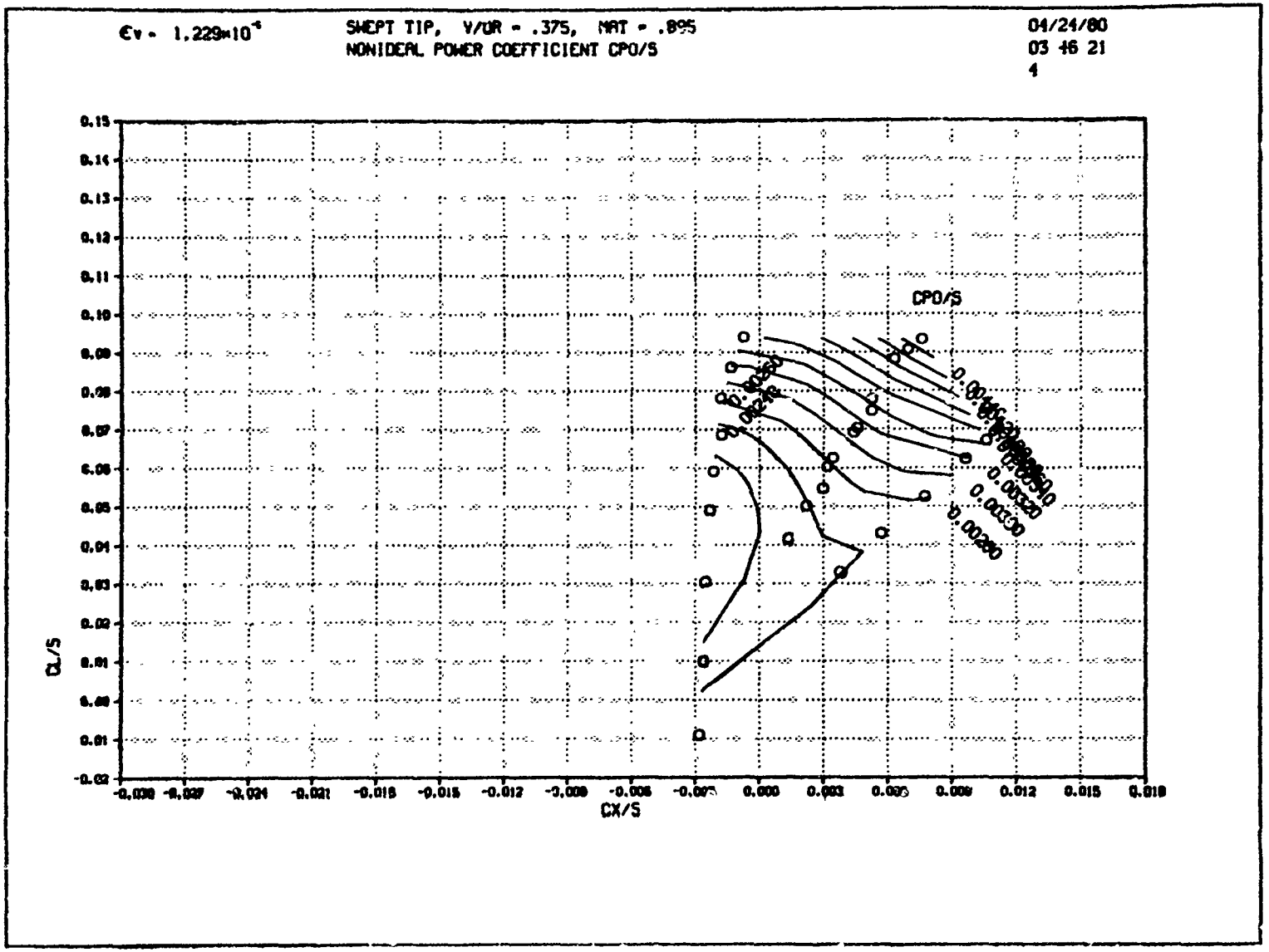

Ev - 1.754*10^-4
SWEPT/TAPERED TIP, V/OR - .375, MAT - .940
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
14 41 48
11
CL/S
CX/S
0.00380
0.00360
0.00340
0.00320
0.00300
CPO/S

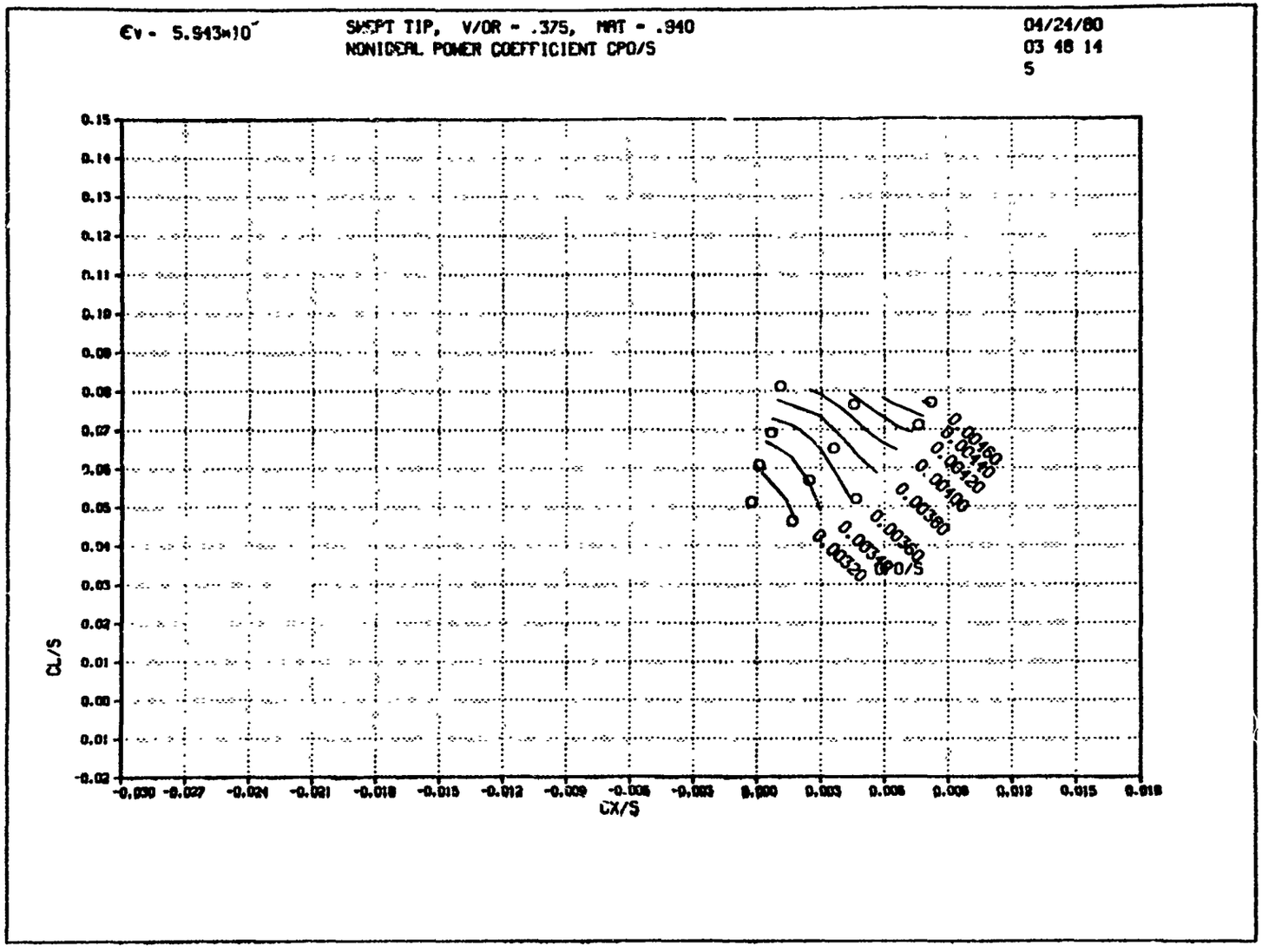

Ev - 8.990*10^-6
SWEPT/TAPERED TIP, V/OR - .375, MAT - .965
NONIDEAL POWER COEFFICIENT CPO/S
04/26/90
14 44 08
12
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018
0.00540
0.00520
0.00500
0.00480
0.00460
0.00440
0.00420

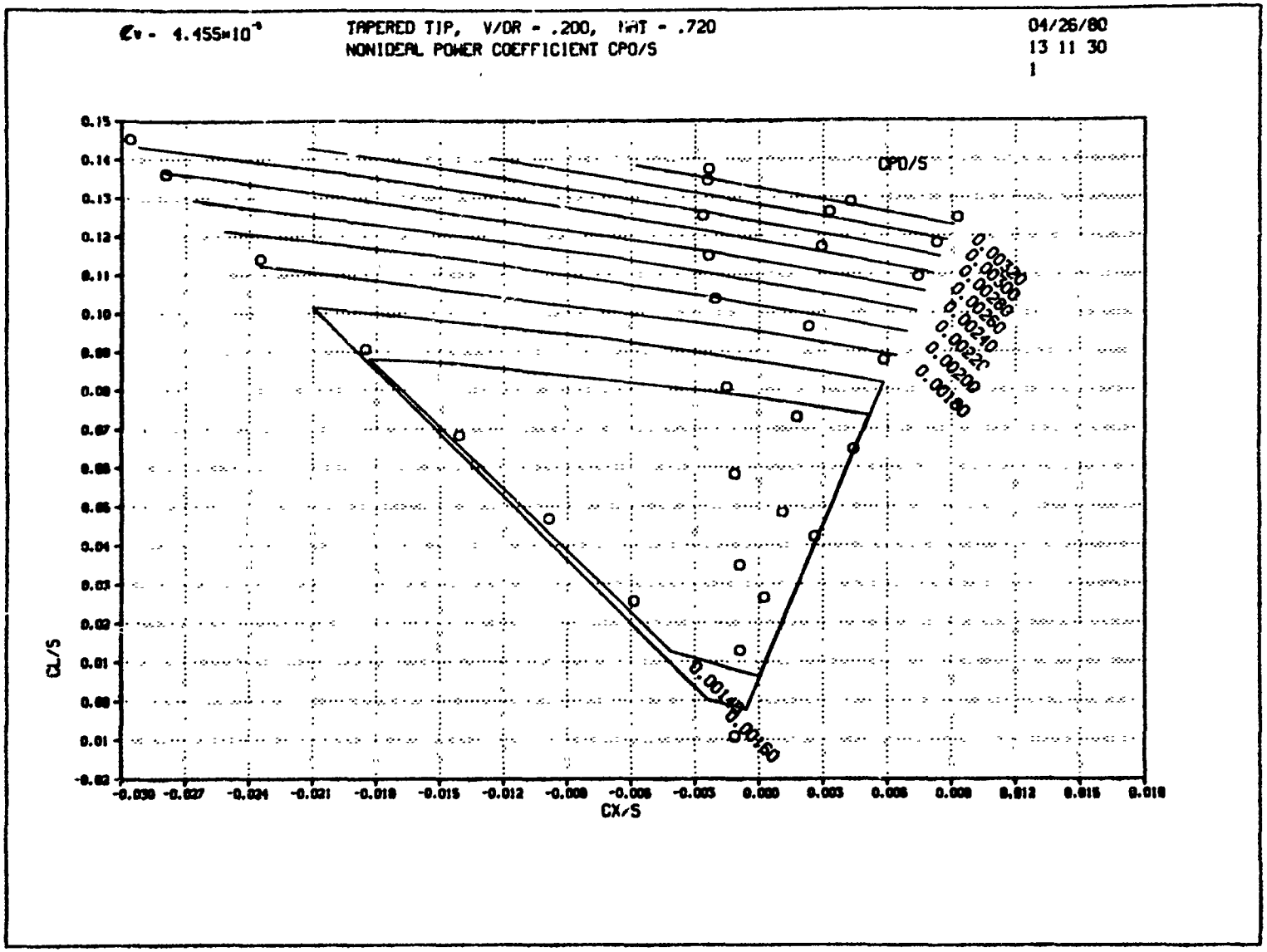

04/25/80
22 26 01
1
SWEPT TIP, V/OR = .200, MRT = .720
NONIDEAL POWER COEFFICIENT CPO/S
Cv = 3.887x10⁻⁴
CPO/S
0.00280
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
0.00100
0.00140
0.00120
CL/S
CM/S

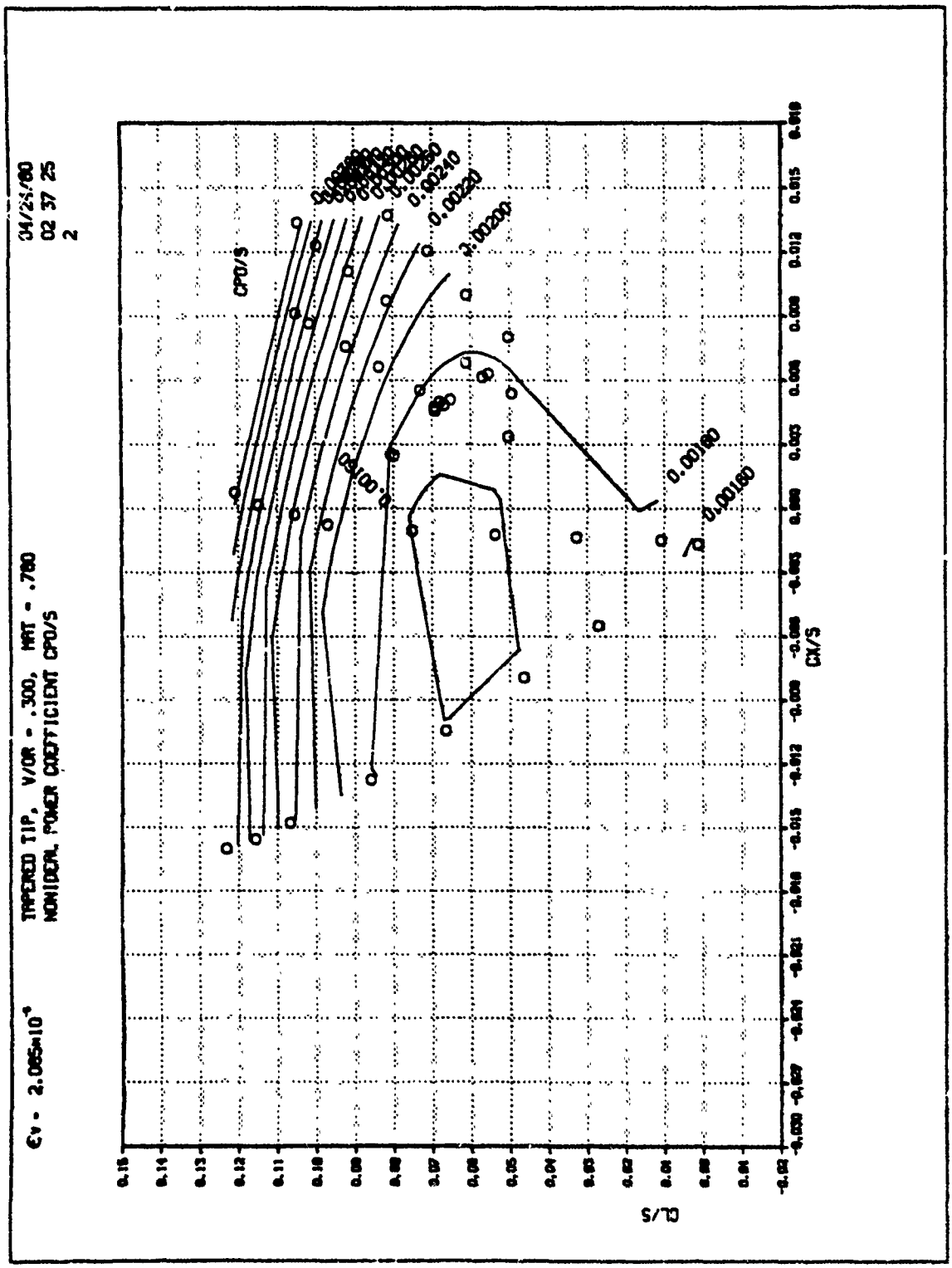

SWEPT TIP, V/OR = .300, MAT = .780
NONIDEAL POWER COEFFICIENT CPO/S
04/24/80
03 42 46
2
CPO/S
0.00220
0.00200
CX/S
CZ/S

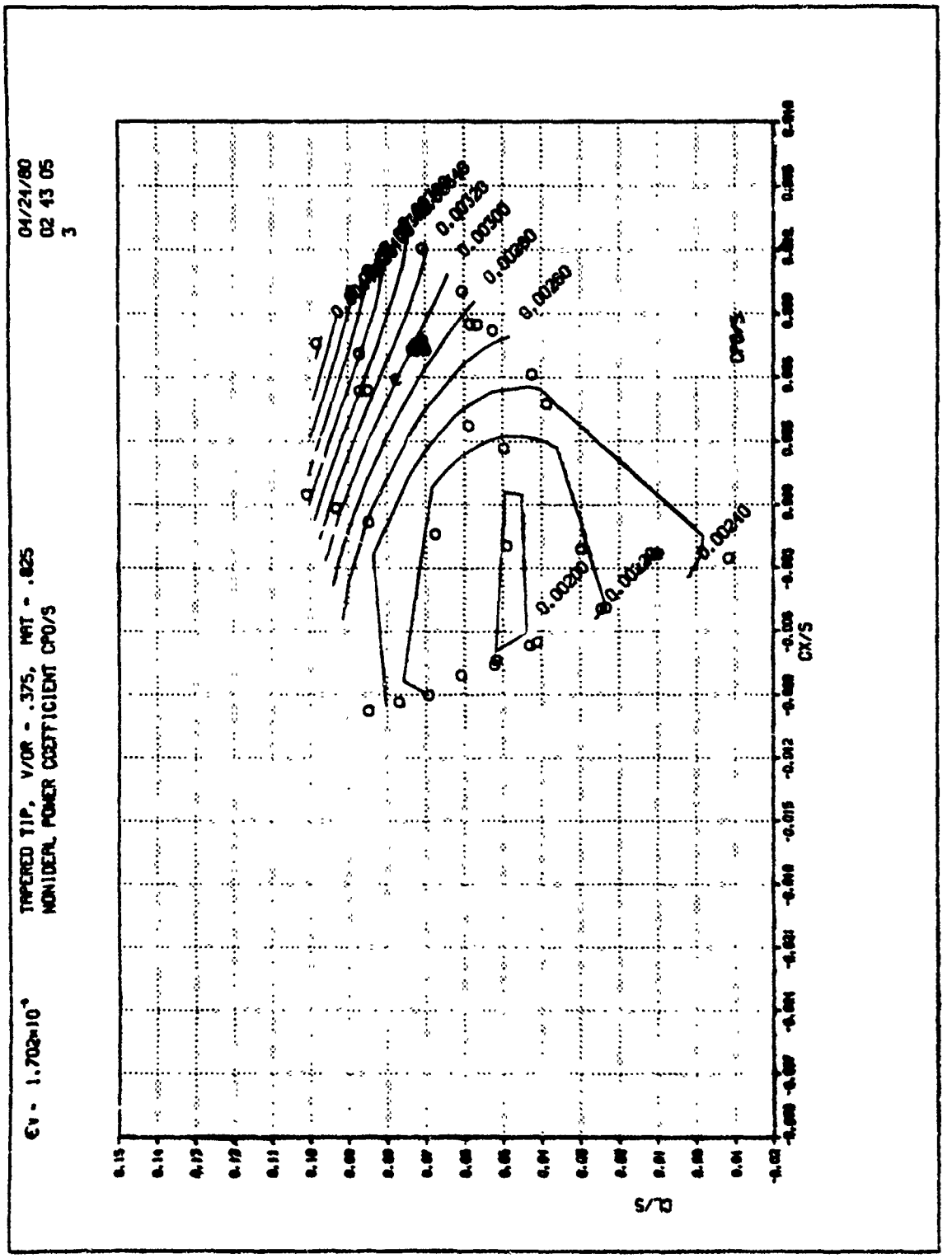

Cv - 2.895×10⁻⁶
SWEPT TIP, V/OR - .375, MAT - .825
NONIDEAL POWER COEFFICIENT CP/S
04/25/80
22 33 56
3
CPD/S
0.00320
0.00300
0.00280
0.00260
CL/S
CX/S

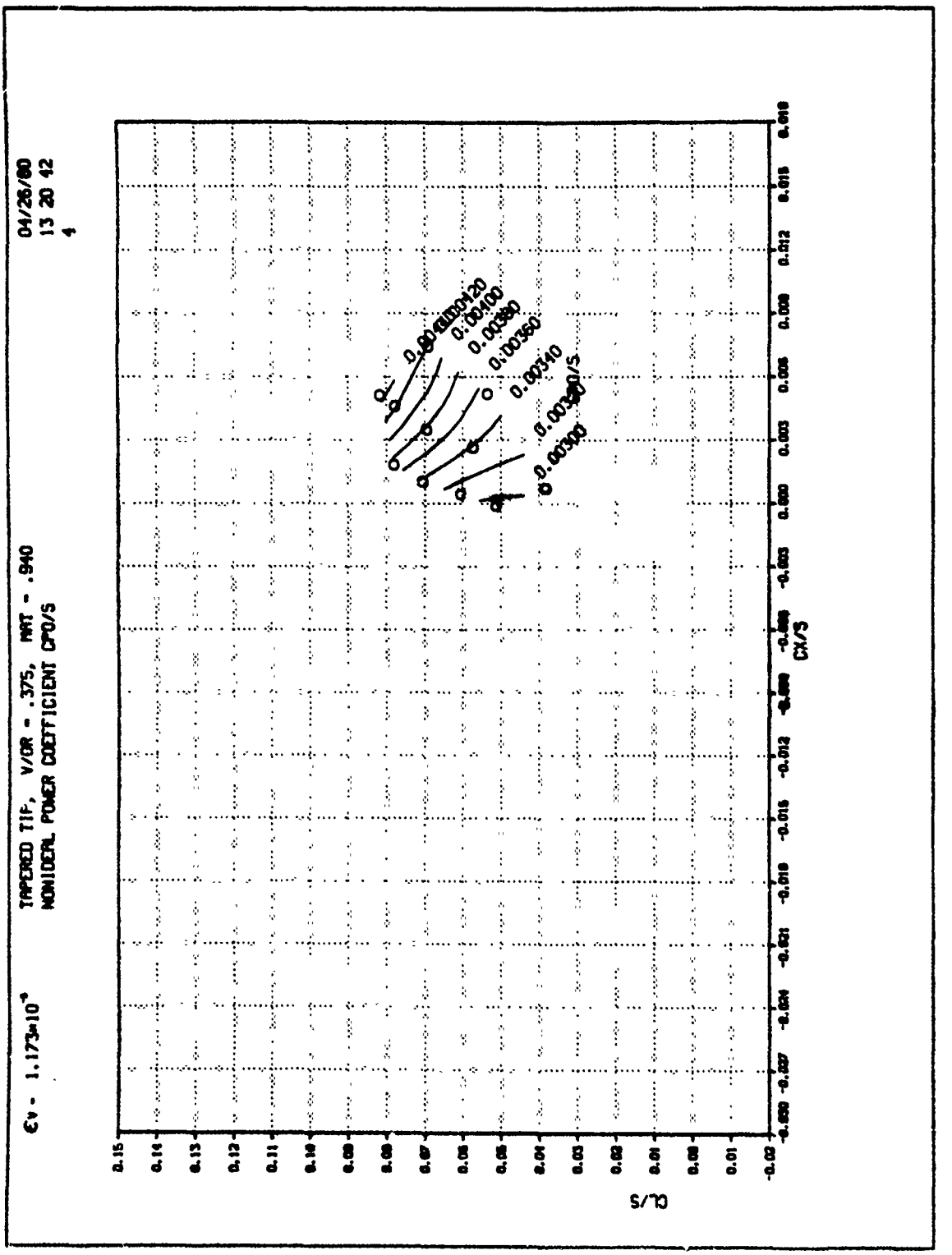

Ev = 1.229×10⁻⁵
SWEPT TIP, V/UR = .375, MAT = .895
NONIDEAL POWER COEFFICIENT CPO/S
04/24/80
03 46 21
4
CPO/S
CL/S
CX/S

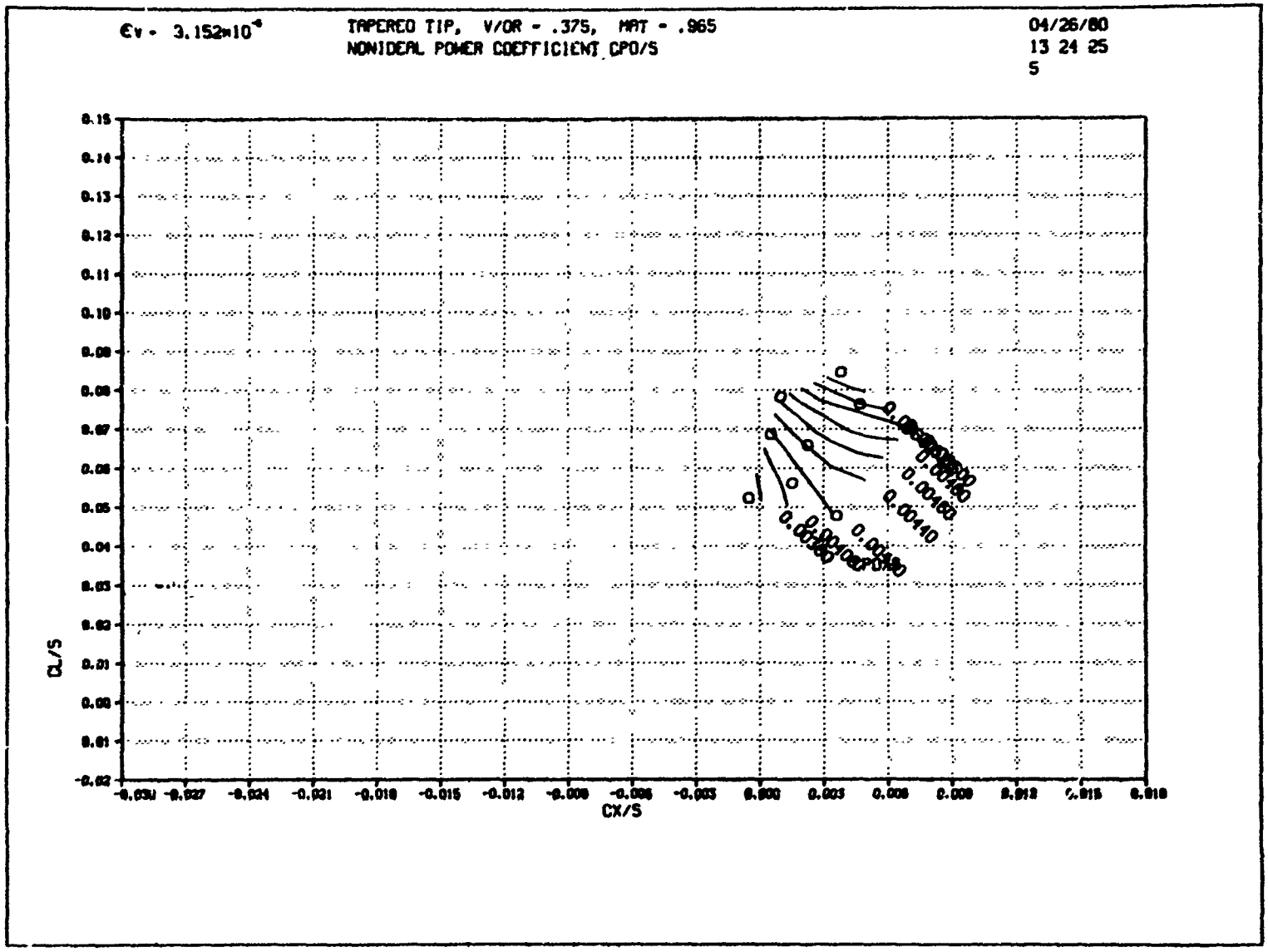

Ev - 5.943×10⁷
SWEPT TIP, V/OR - .375, MAT - .940
NONDIMENSIONAL POWER COEFFICIENT CPO/S
04/24/80
03 48 14
5
CL/S
CX/S
0.00460
0.00440
0.00420
0.00400
0.00380
0.00360
0.00340
0.00320
CPO/S

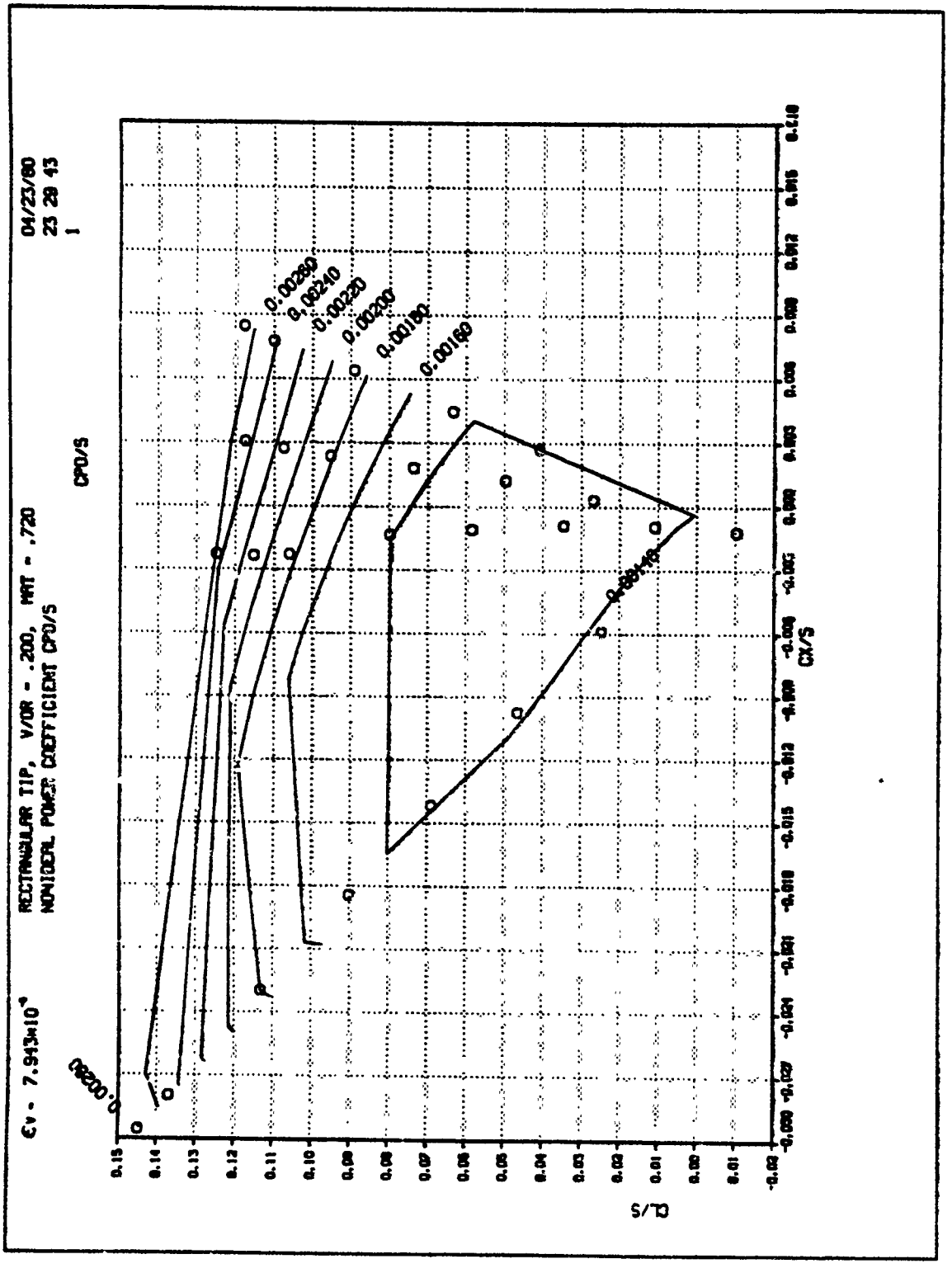

$\mathcal{C}_v$ - 4.455×10⁻³
TAPERED TIP, V/OR - .200, MAT - .720
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
13 11 30
1
CPO/S
0.00320
0.00300
0.00280
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
CL/S
CX/S

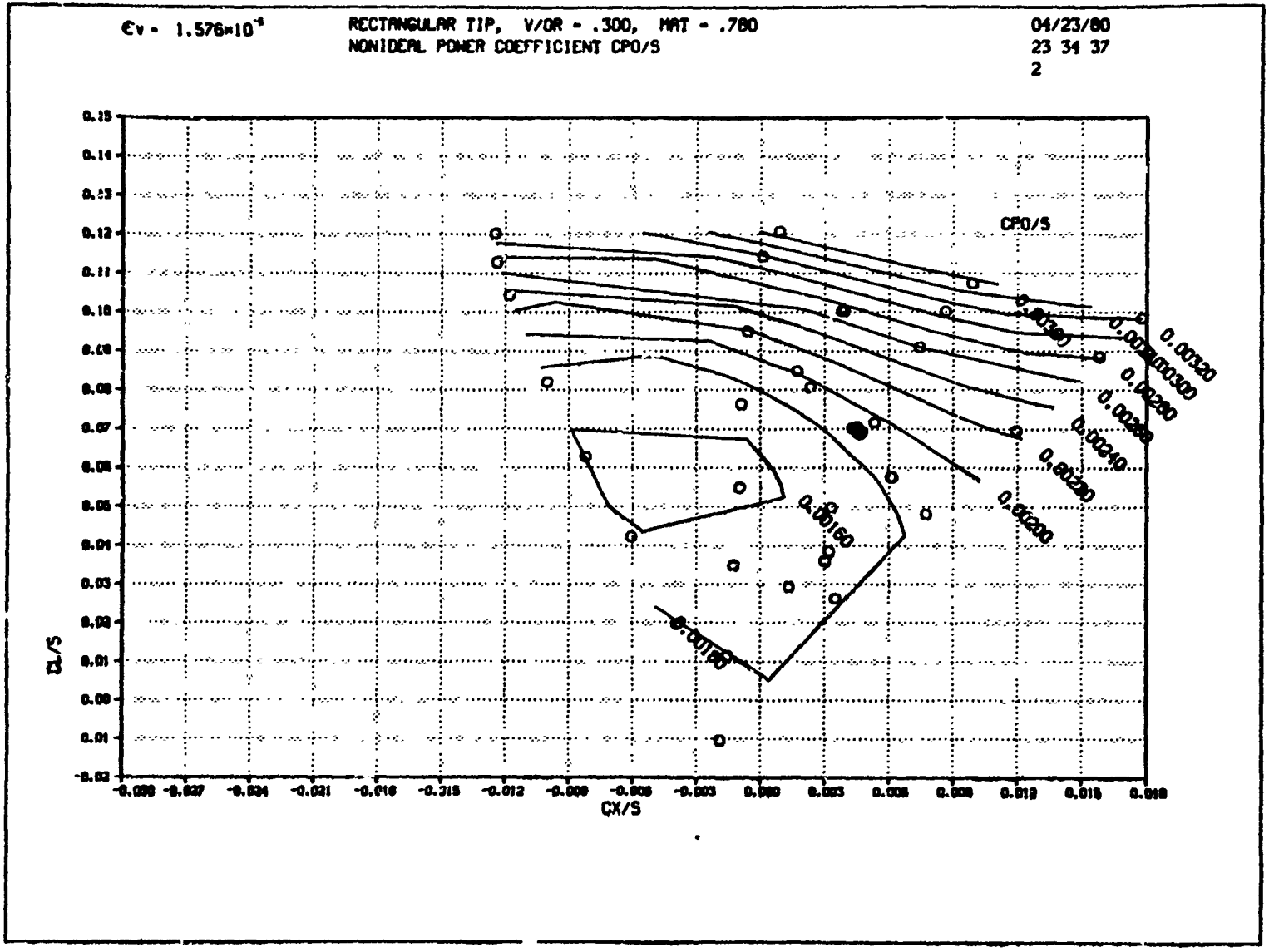

Cv - 2.065e10⁻⁵
TAPERED TIP, V/OR - .300, MRT - .780
NONIDEAL POWER COEFFICIENT CPD/S
04/23/80
02 37 25
2
CPD/S
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
CL/S
CX/S

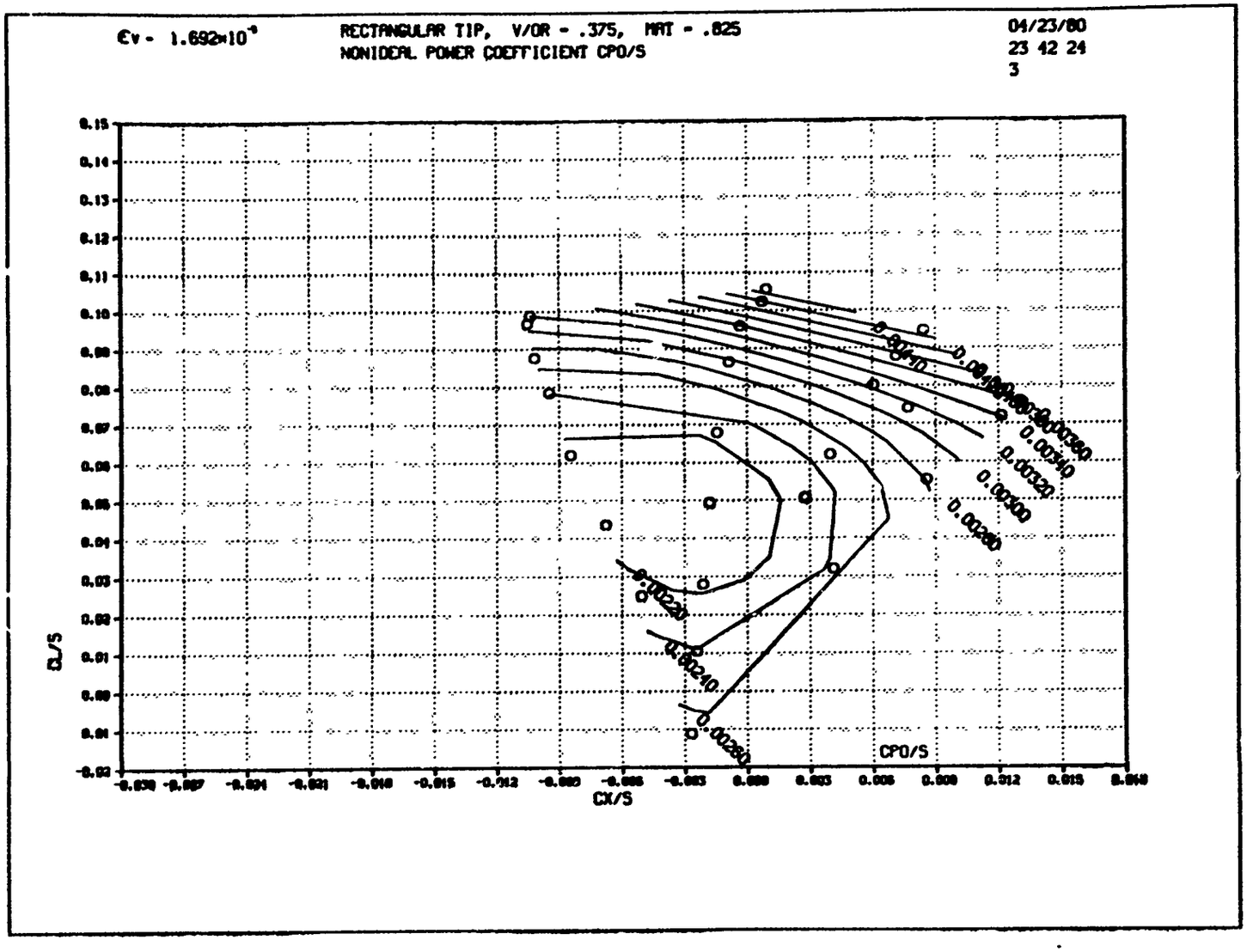

04/24/80
02 43 05
3
TAPERED TIP, V/OR = .375, MAT = .825
NONIDEAL POWER COEFFICIENT CPO/S
Ev = 1.702e+10⁻³
0.00120
0.00300
0.00280
0.00260
0.00240
0.00220
0.00200
CX/S
CL/S

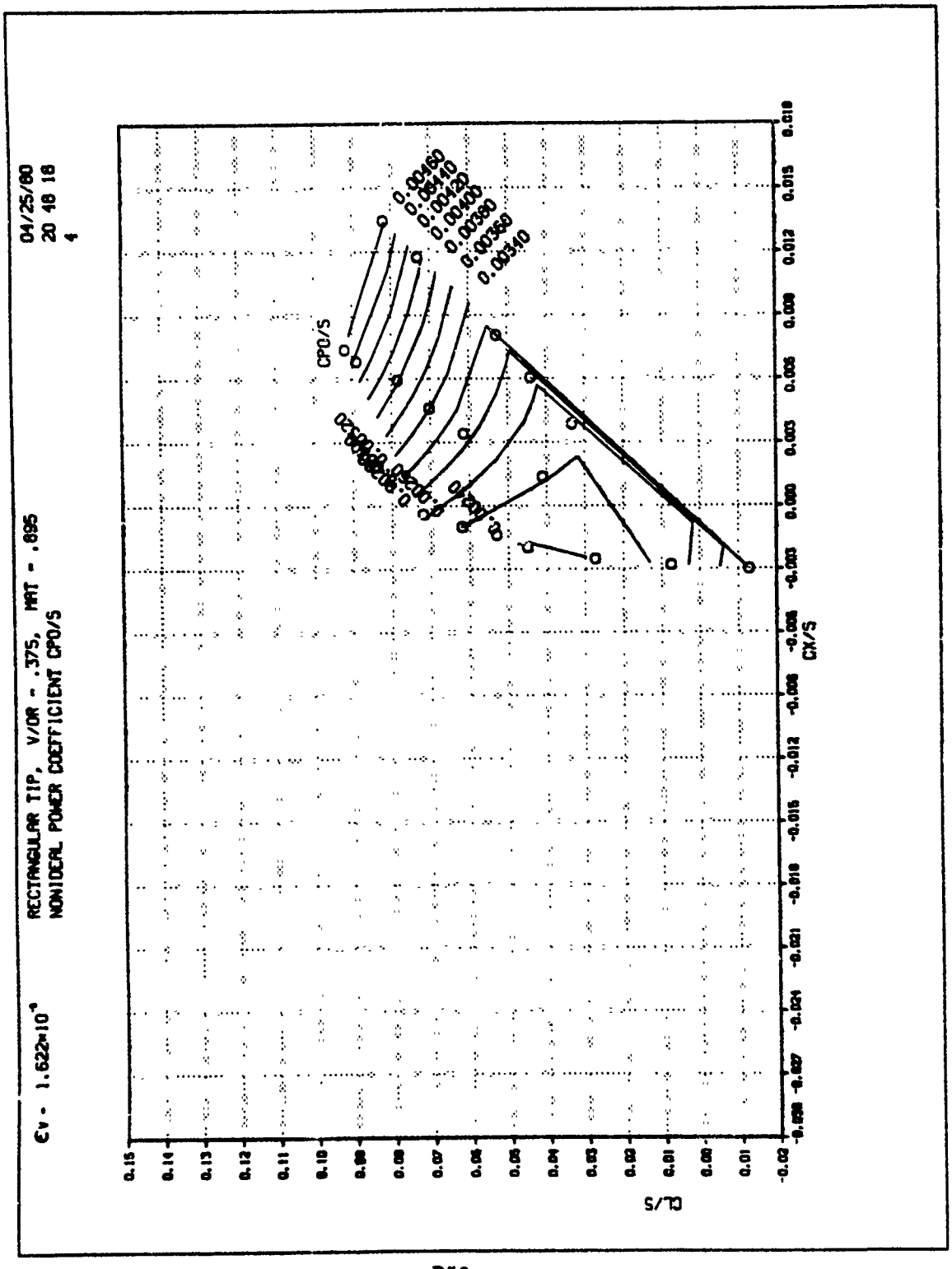

Cv - 1.173e-05
TAPERED TIP, V/OR - .375, MNT - .940
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
13 20 42
4
0.00420
0.00400
0.00380
0.00360
0.00340
0.00320
0.00300
CL/S
CX/S

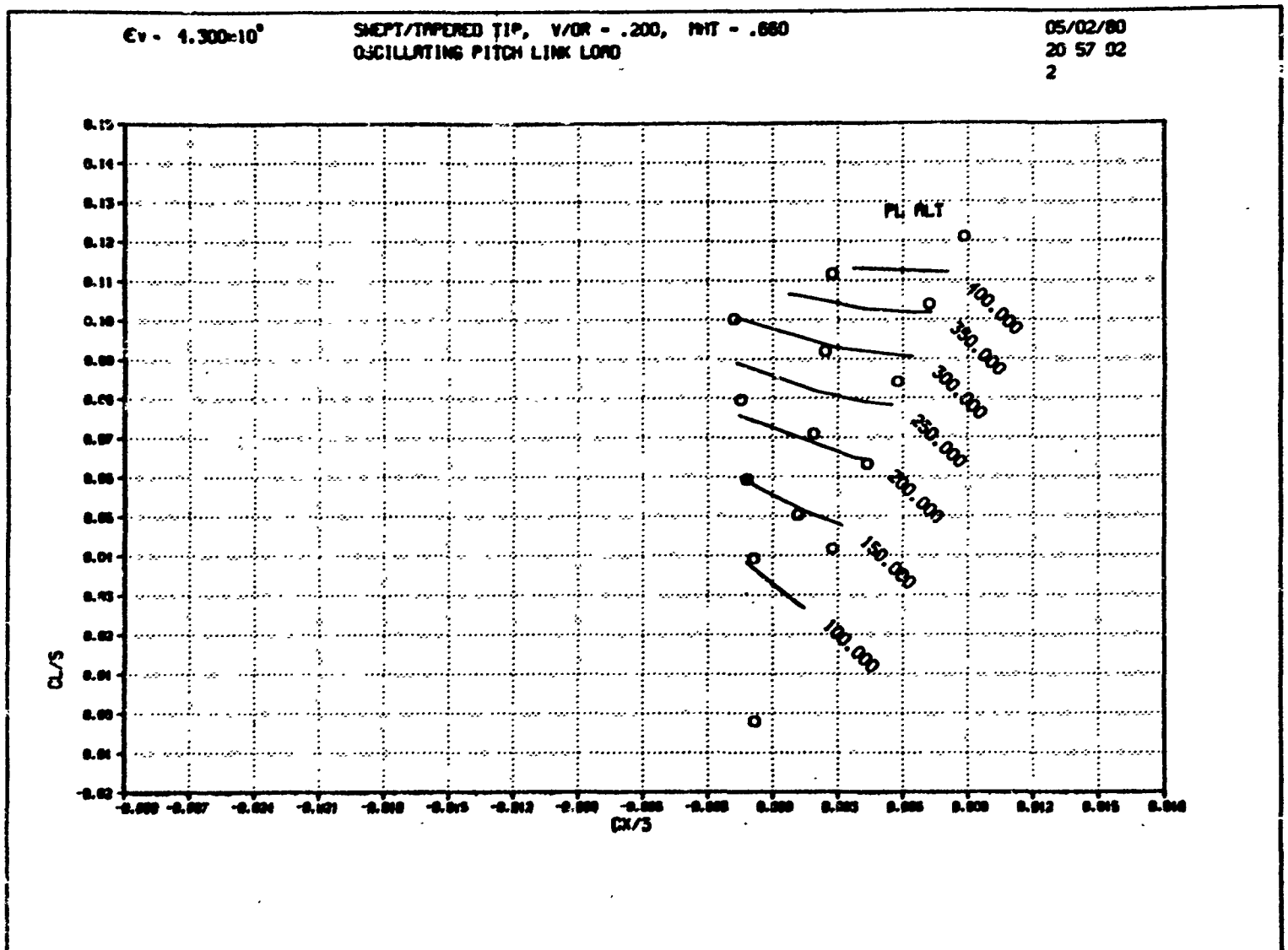

Ev = 3.152*10^-6
TAPERED TIP, V/OR = .375, MAT = .965
NONIDEAL POWER COEFFICIENT CPO/S
04/26/80
13 24 25
5
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018
0.00460
0.00440
0.00420

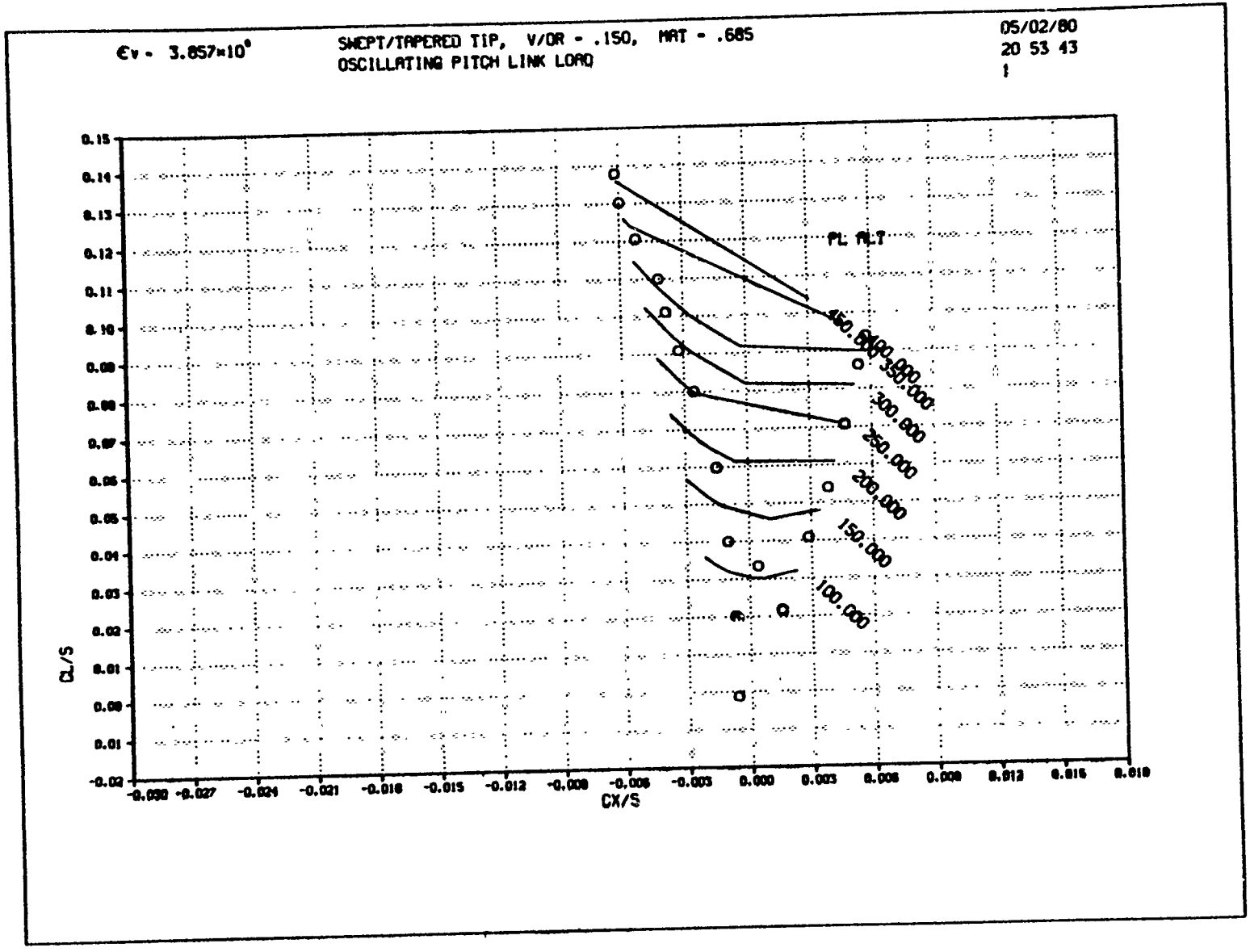

Cv - 7.943e+04
RECTANGULAR TIP, V/OR - .200, MAT - .720
NONDIMENSIONAL POWER COEFFICIENT CPD/S
04/23/80
23 28 43
1
CPD/S
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
CX/S
CL/S

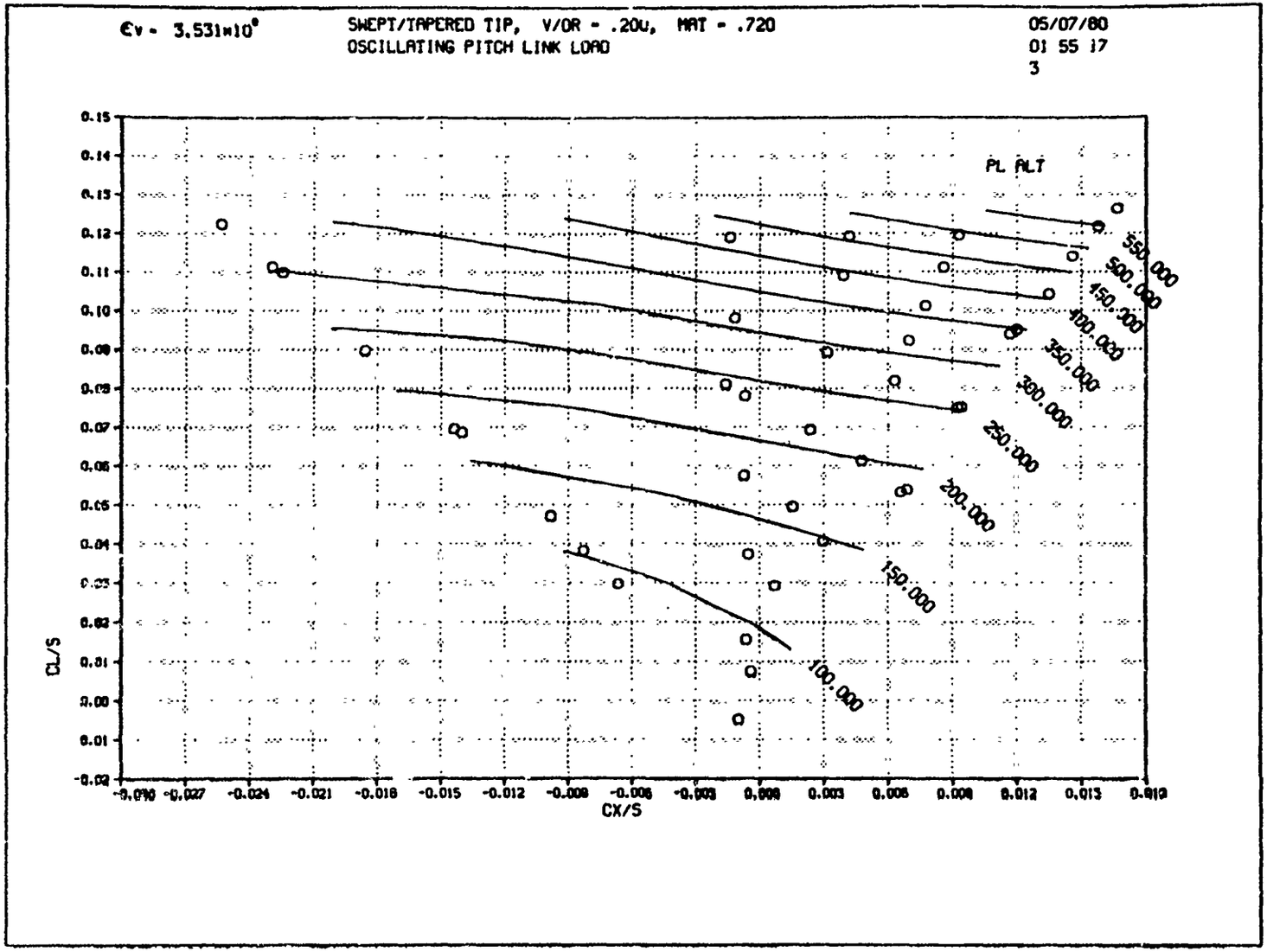

Cv = 1.576×10⁻⁴
RECTANGULAR TIP, V/OR = .300, MAT = .780
NONIDEAL POWER COEFFICIENT CPO/S
04/23/80
23 34 37
2
CPO/S
0.00320
0.00300
0.00280
0.00260
0.00240
0.00220
0.00200
0.00180
0.00160
CD/S
CX/S

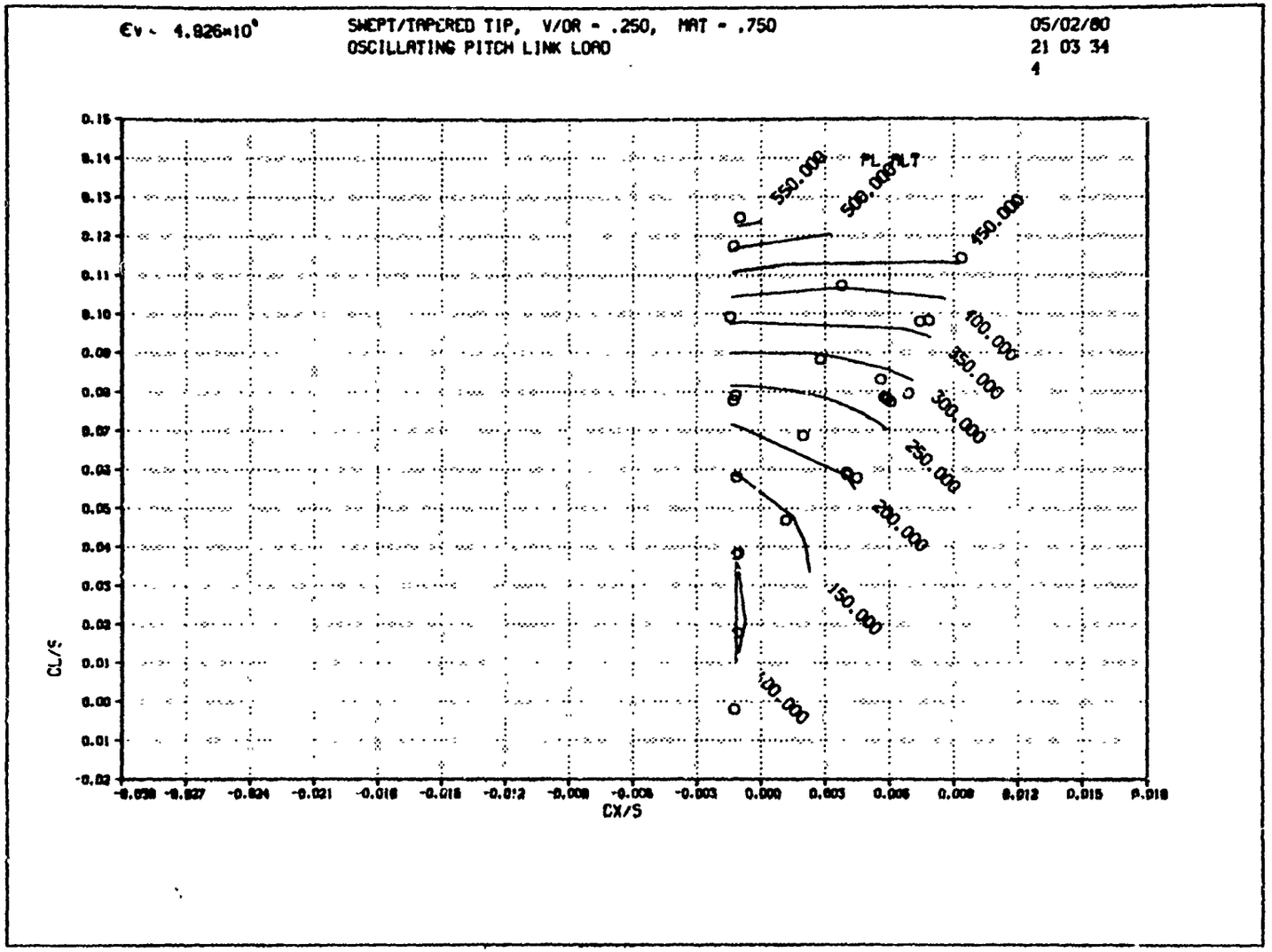

Ev - 1.692x10⁻⁵
RECTANGULAR TIP, V/OR - .375, MAT - .825
NONIDEAL POWER COEFFICIENT CPO/S
04/23/80
23 42 24
3
CPO/S
CX/S
CZ/S

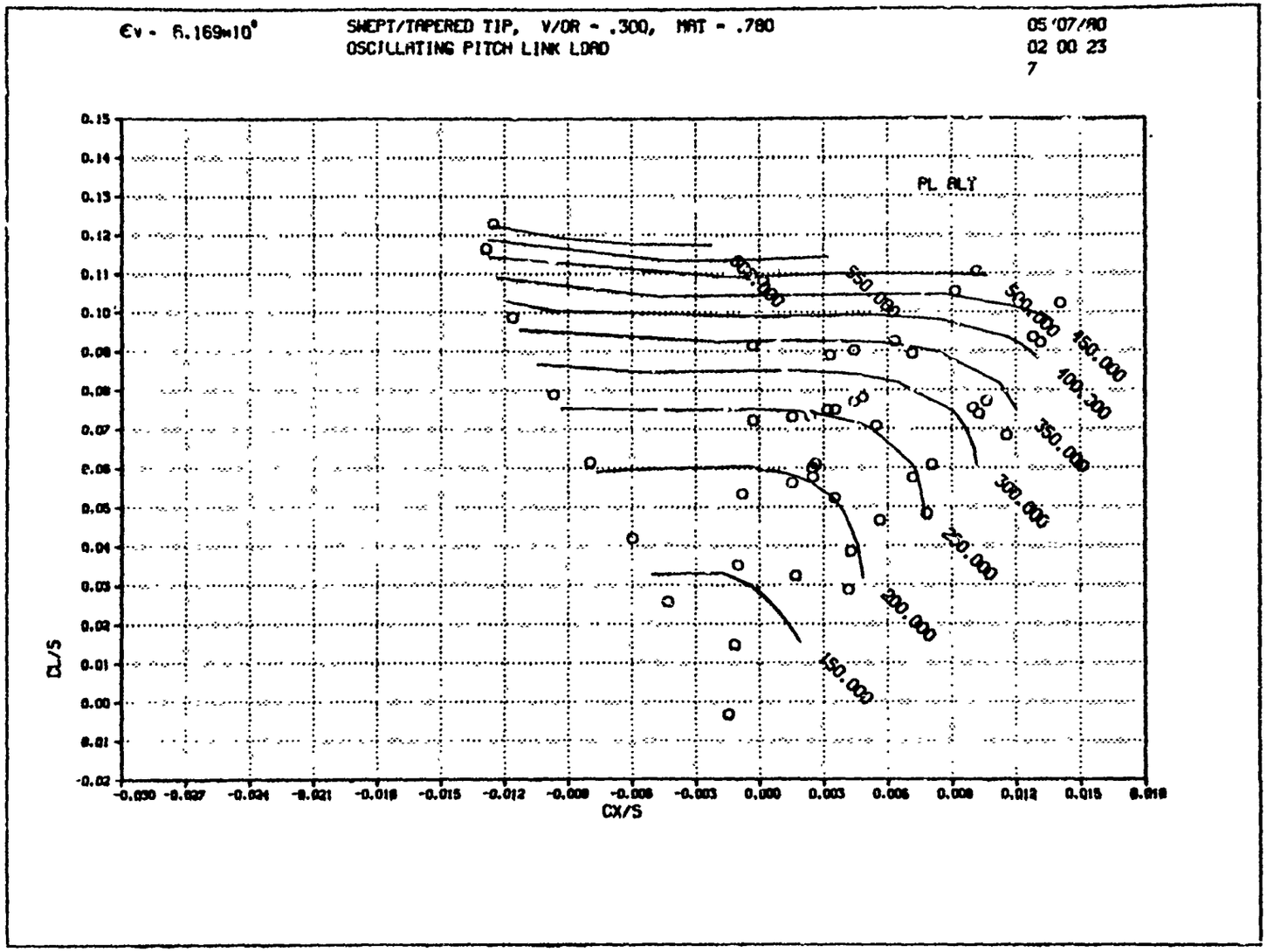

RECTANGULAR TIP, V/OR = .375, MAT = .895
NONIDEAL POWER COEFFICIENT CPO/S
04/25/80
20 48 18
4
Ev = 1.622e+10^9
CPO/S
0.00460
0.00440
0.00420
0.00400
0.00380
0.00360
0.00340
CL/S
CX/S

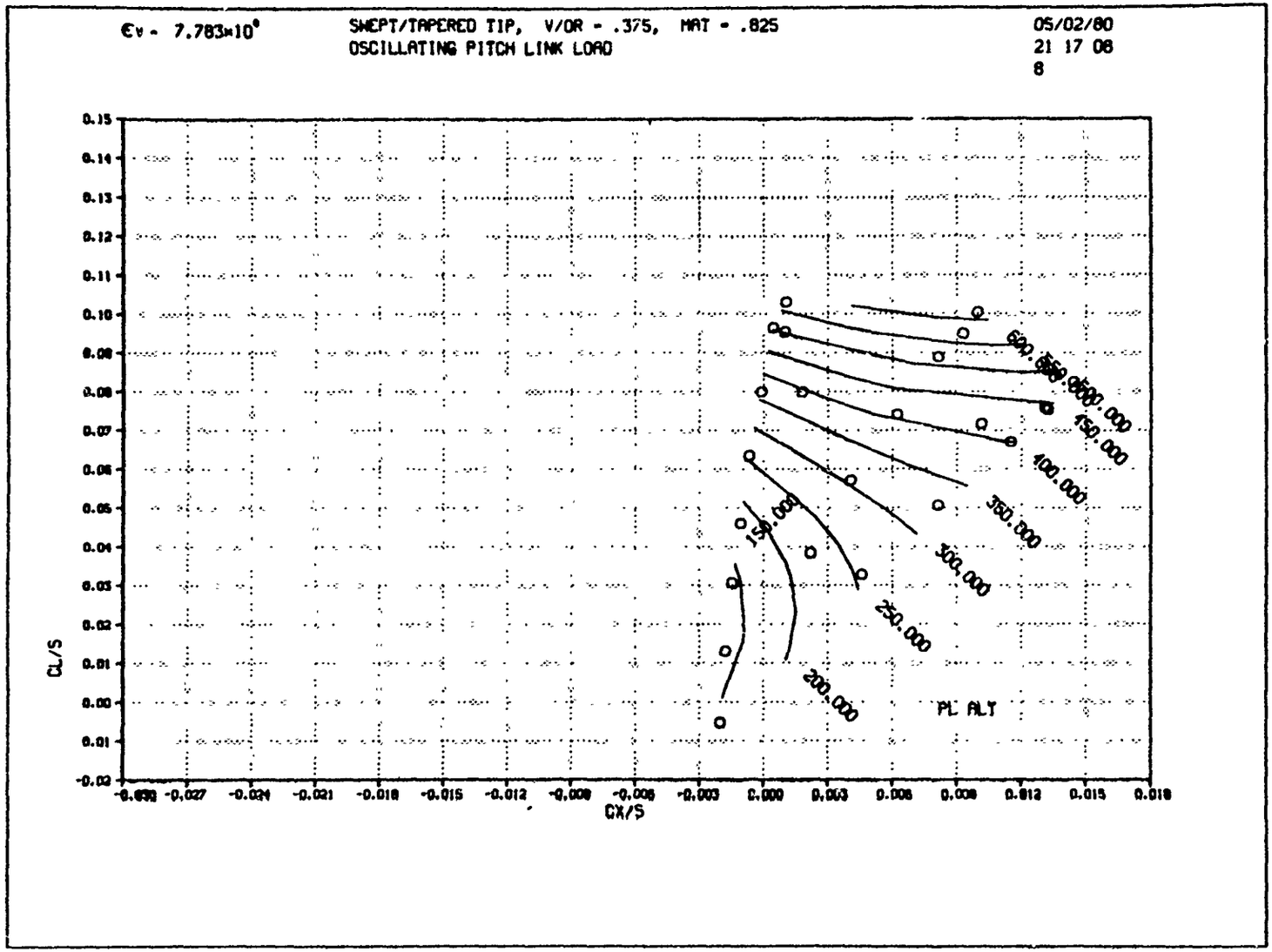

Ev - 4.300E+10
SWEPT/TAPERED TIP, V/OR - .200, MHT - .660
OSCILLATING PITCH LINK LOAD
05/02/80
20 57 02
2
PL ALT
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S

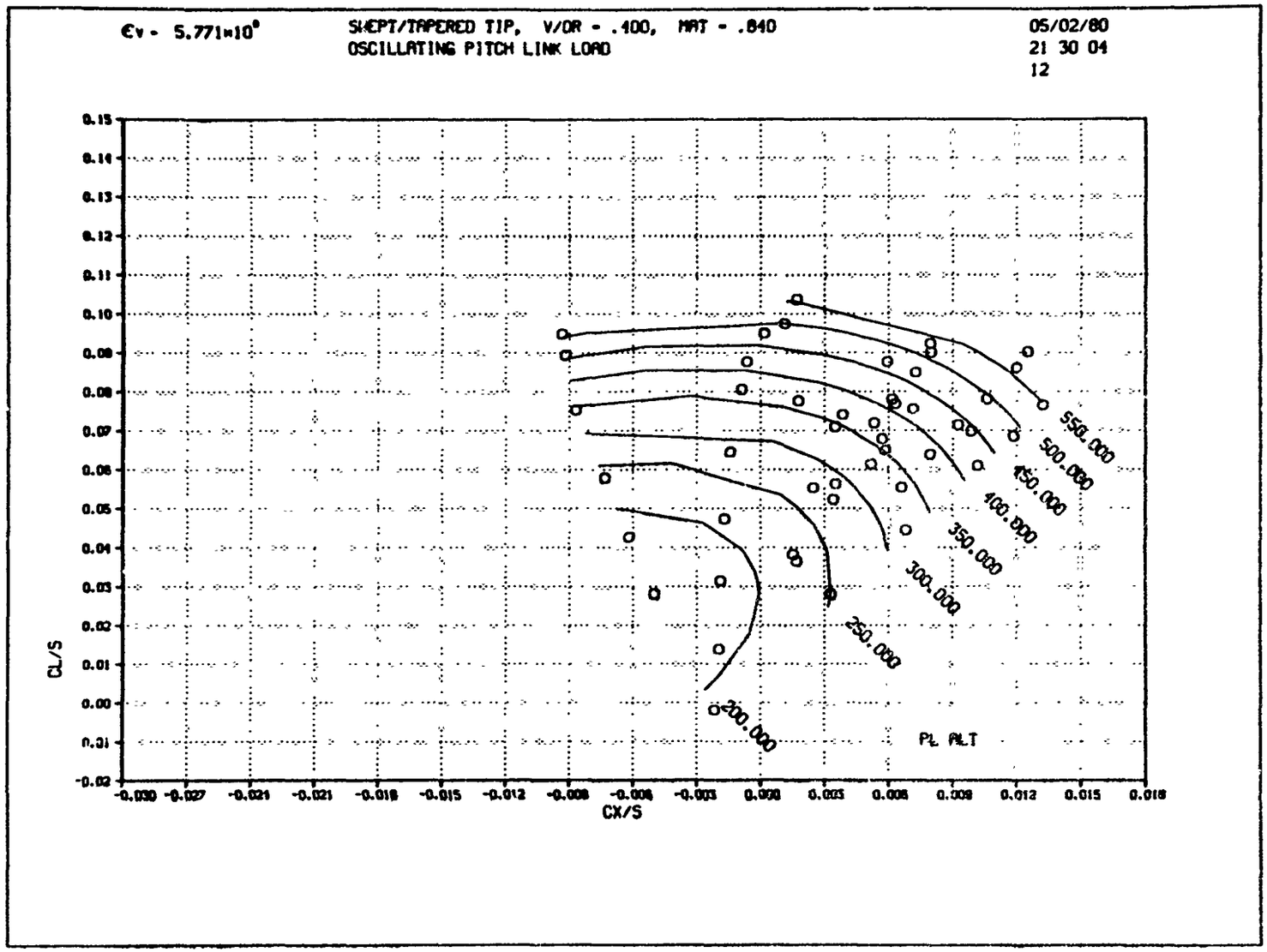

Ev - 3.857×10⁶
SWEPT/TAPERED TIP, V/OR - .150, MAT - .685
OSCILLATING PITCH LINK LORD
05/02/80
20 53 43
1
PL PLT
450.000
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

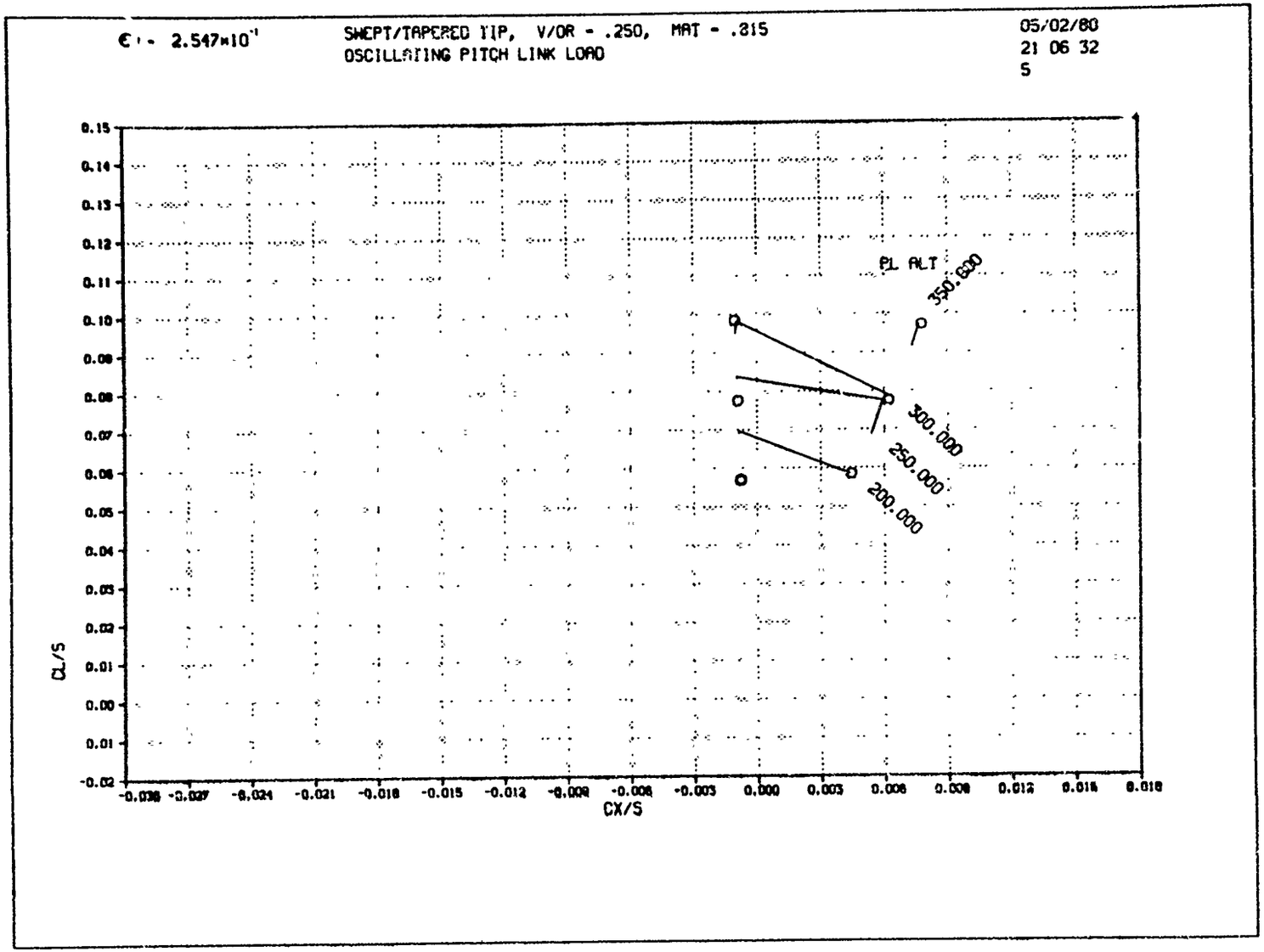

Ev - 3.531x10⁶
SWEPT/TAPERED TIP, V/OR - .20U, MAT - .720
OSCILLATING PITCH LINK LOAD
05/07/80
01 55 17
3
PL ALT
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

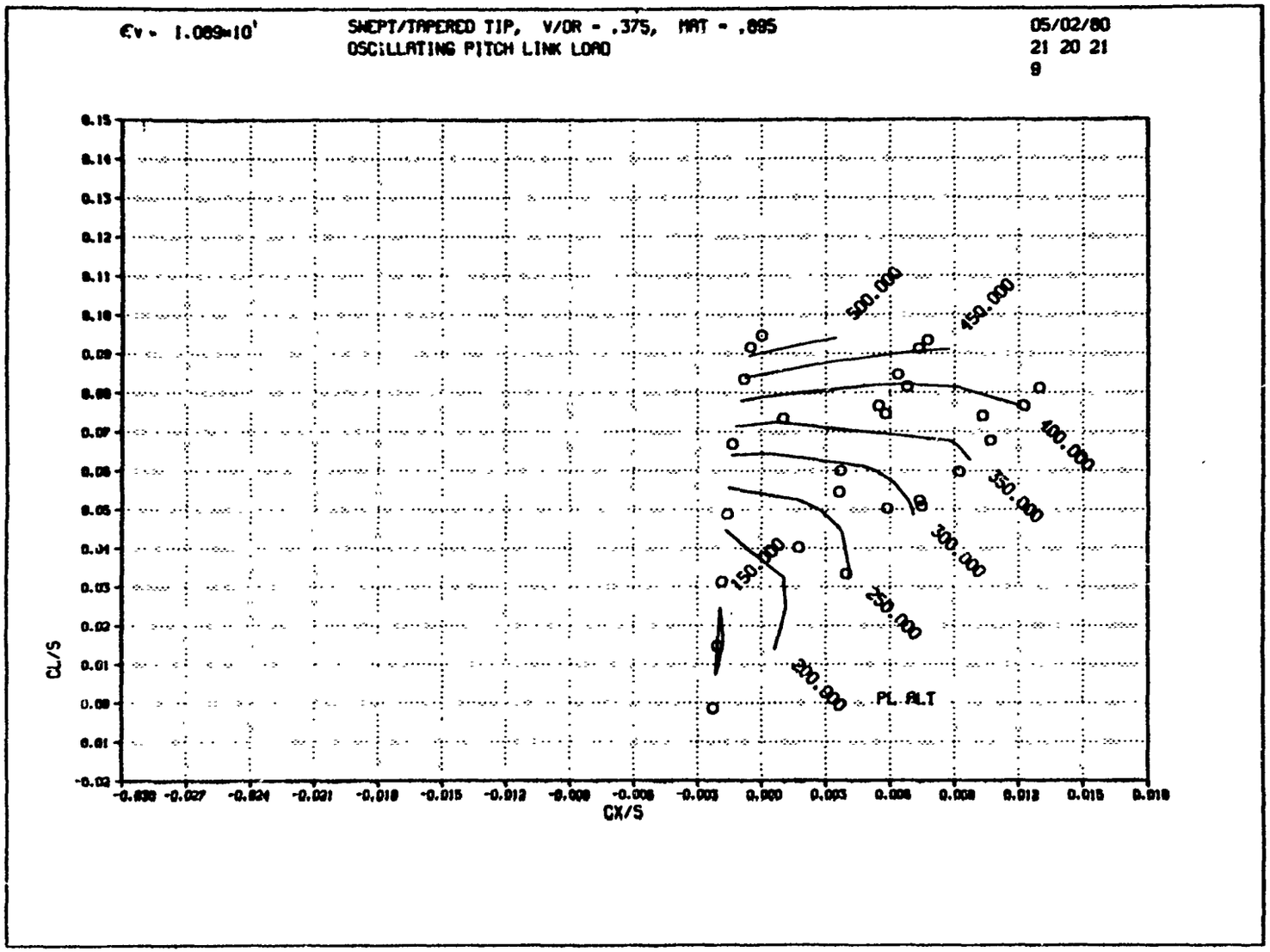

εv = 4.926×10⁶
SWEPT/TAPERED TIP, V/OR = .250, MAT = .750
OSCILLATING PITCH LINK LOAD
05/02/80
21 03 34
4
PL PLT
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S

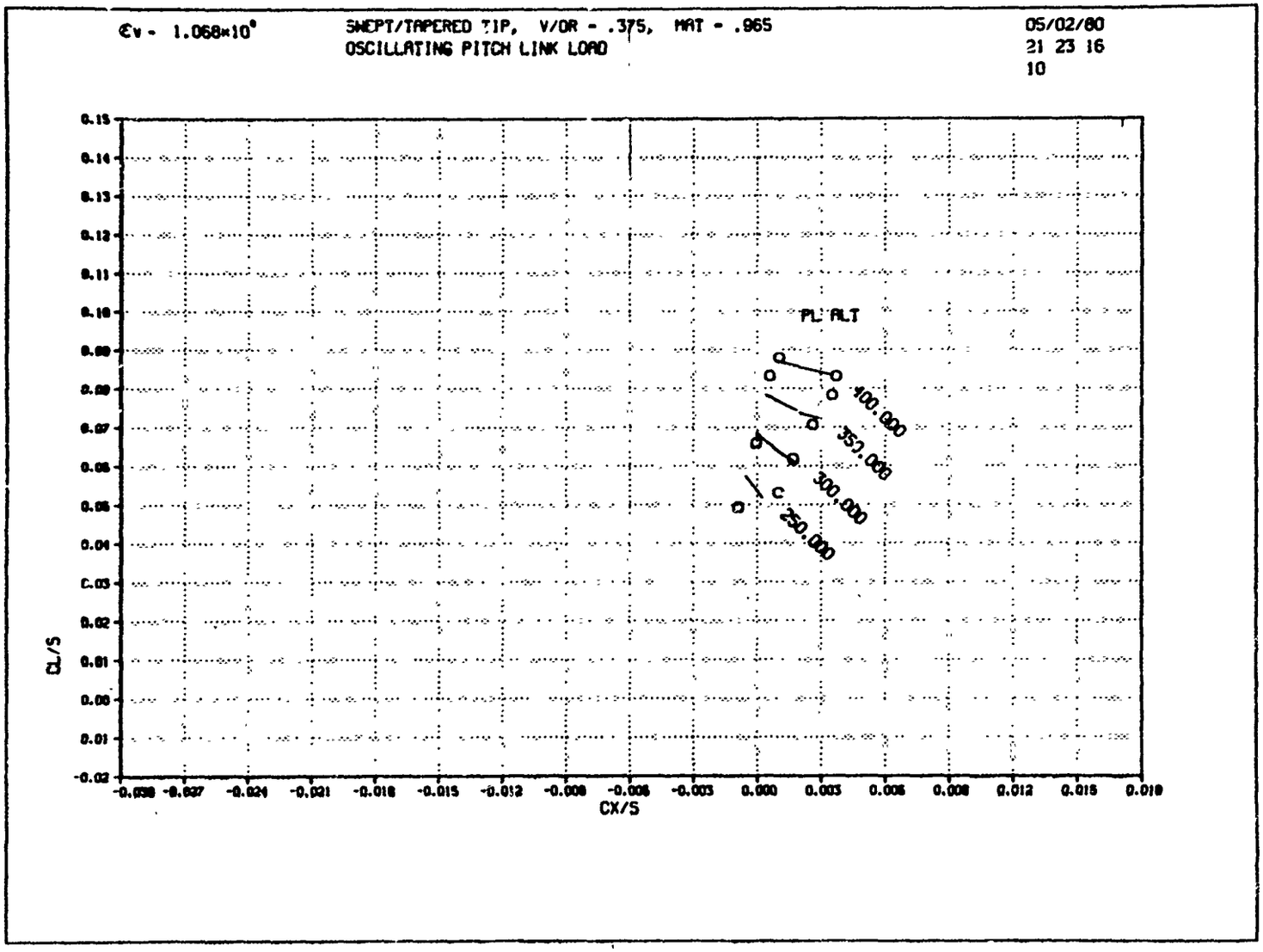

Ev - 6.169*10⁶
SWEPT/TAPERED TIP, V/OR - .300, MAT - .780
OSCILLATING PITCH LINK LOAD
05/07/80
02 00 23
7
PL ALT
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

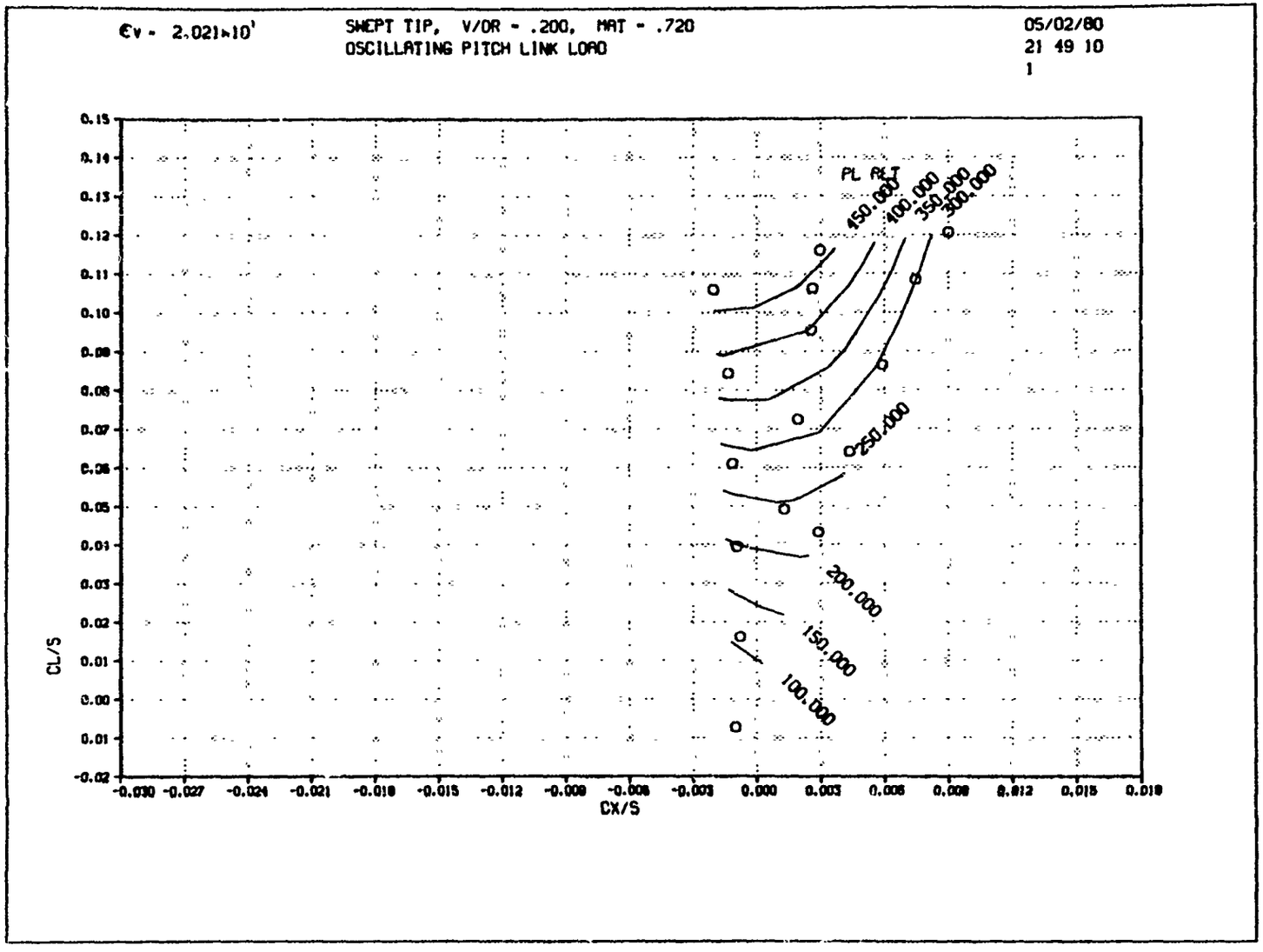

Ev - 7.783×10⁶
SWEPT/TAPERED TIP, V/OR - .375, MAT - .825
OSCILLATING PITCH LINK LOAD
05/02/80
21 17 08
8
CL/S
CX/S
PL ALT
600.000
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000

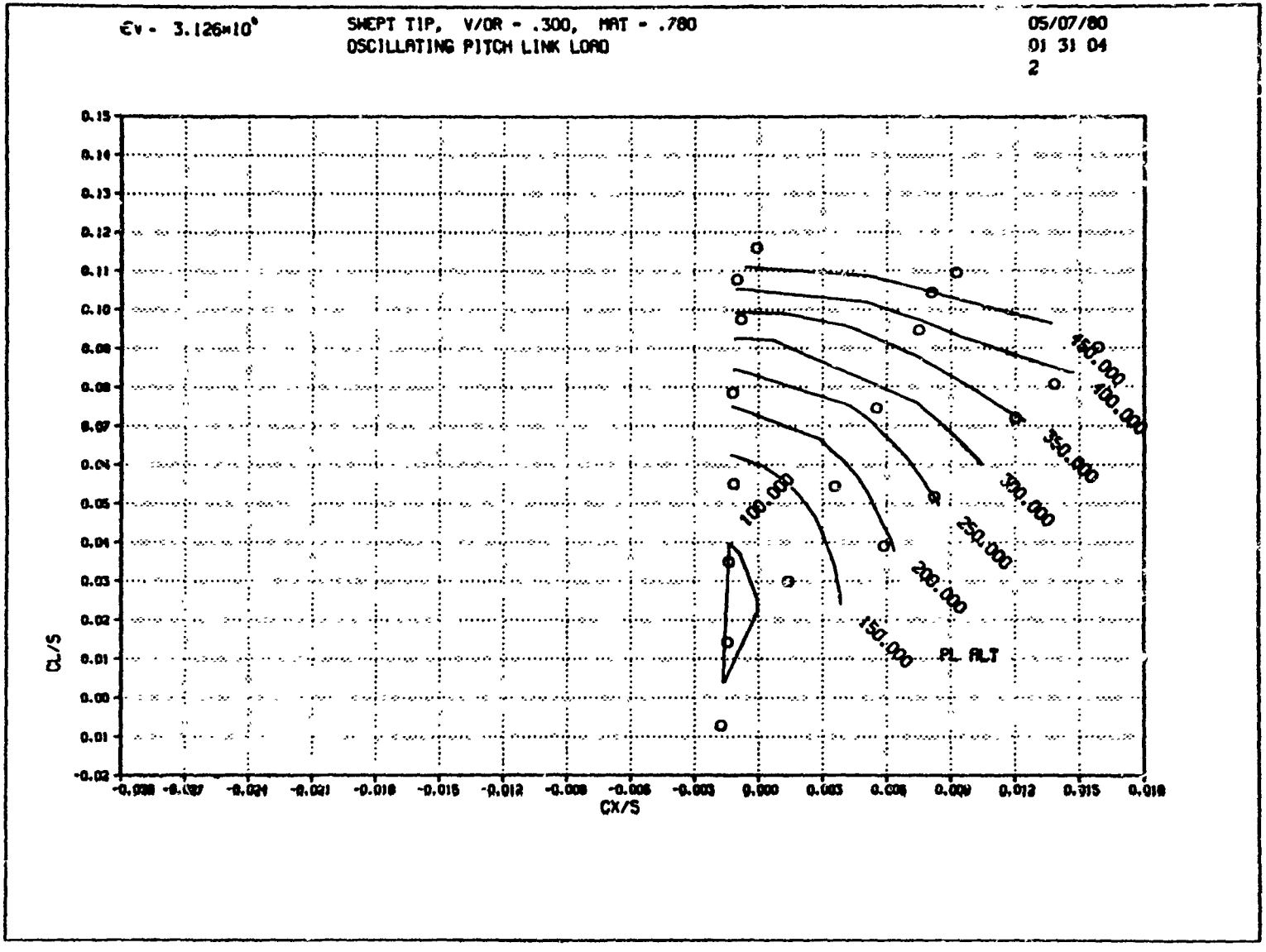

€v - 5.771×10⁶
SWEPT/TAPERED TIP, V/DR - .400, MAT - .840
OSCILLATING PITCH LINK LOAD
05/02/80
21 30 04
12
CL/S
CX/S
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
PL PLT

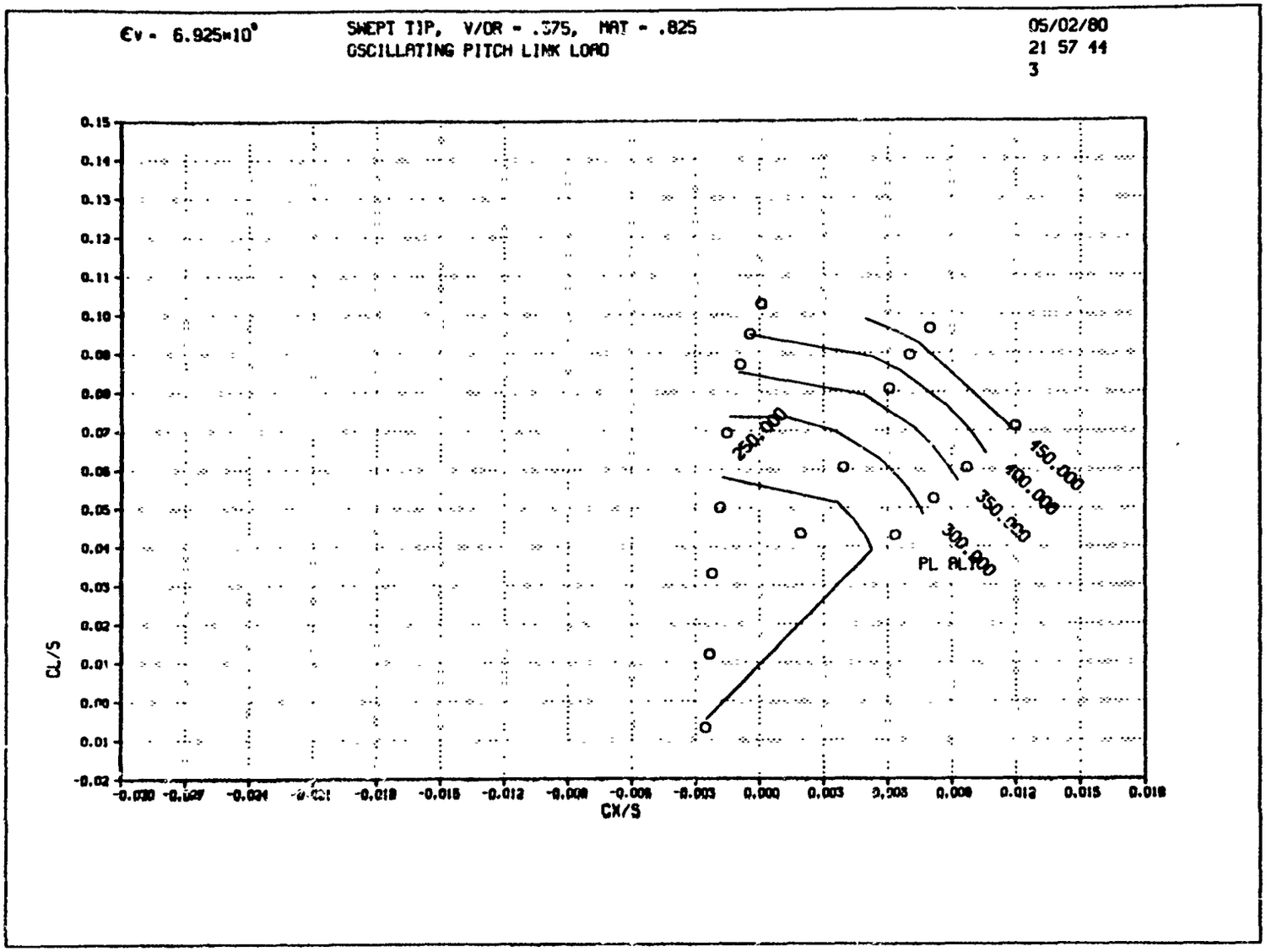

ϵ = 2.547×10⁻¹
SWEPT/TAPERED TIP, V/OR = .250, MAT = .815
OSCILLATING PITCH LINK LOAD
05/02/80
21 06 32
5
PL ALT
350.000
300.000
250.000
200.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

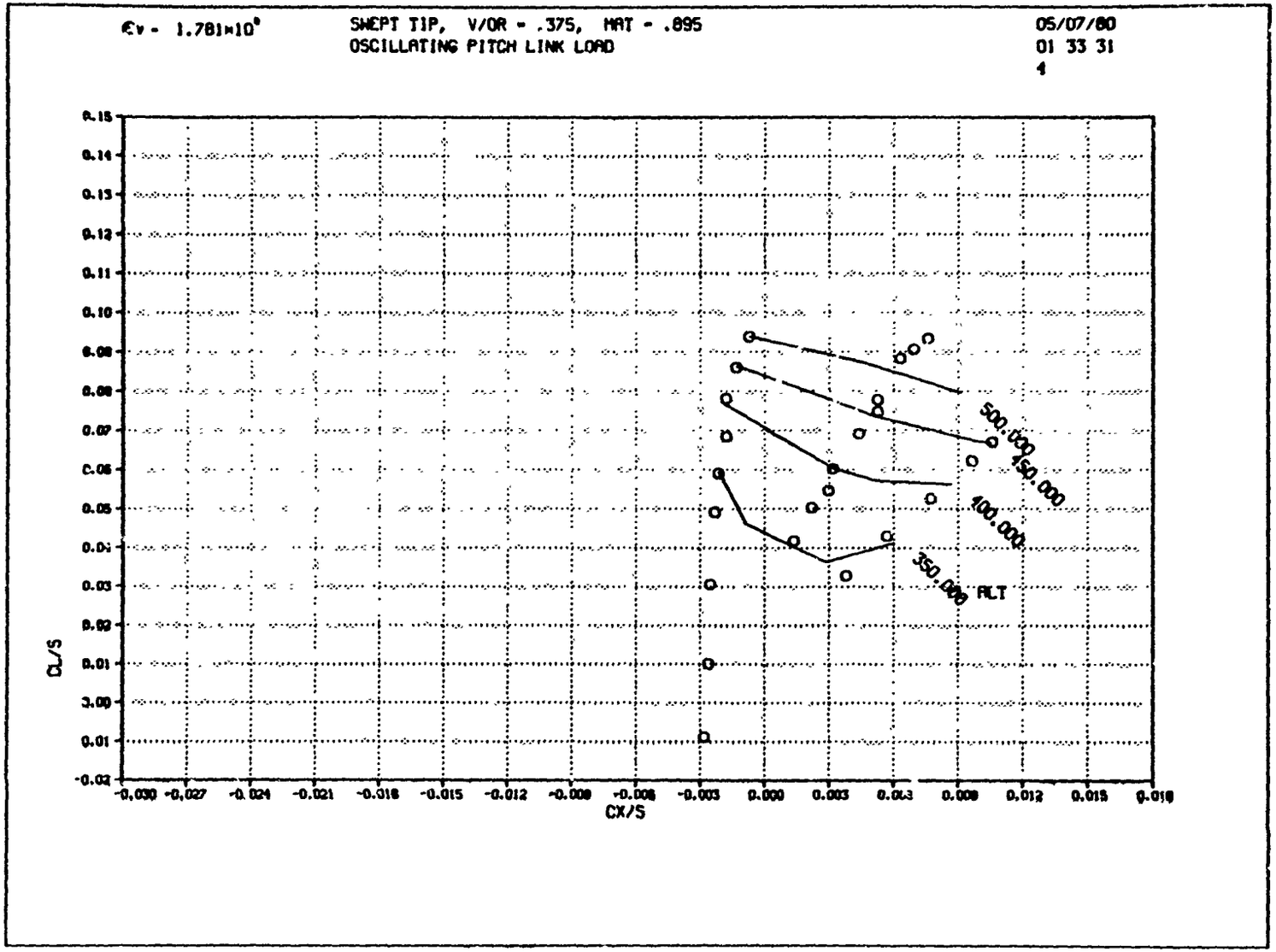

Ev = 1.089×10⁷
SWEPT/TAPERED TIP, V/OR = .375, MAT = .895
OSCILLATING PITCH LINK LOAD
05/02/80
21 20 21
9
CL/S
CX/S
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
PL ALT

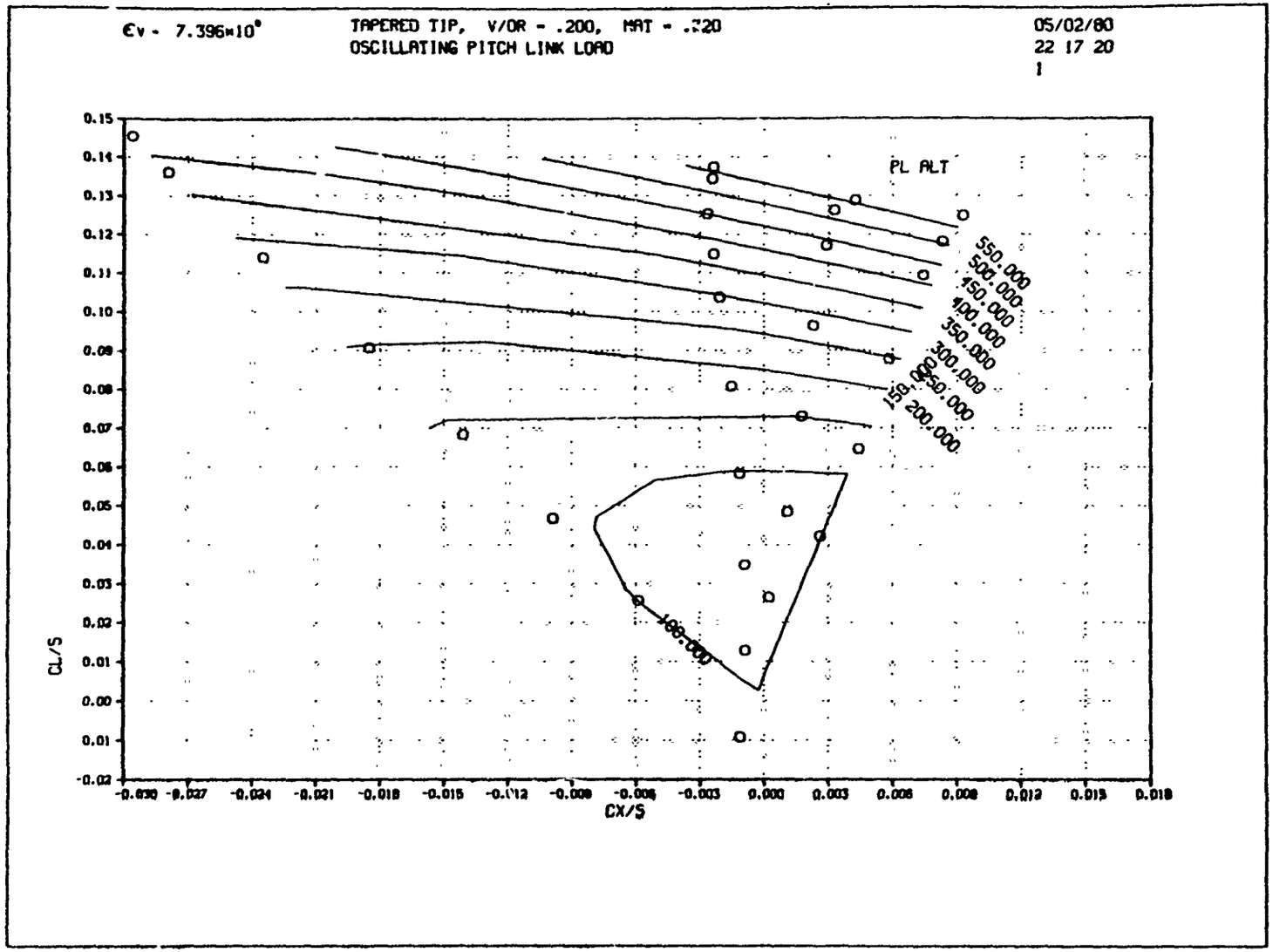

Cv - 1.068×10⁰
SWEPT/TAPERED TIP, V/OR - .375, MAT - .965
OSCILLATING PITCH LINK LOAD
05/02/80
21 23 16
10
PL ALT
400.000
350.000
300.000
250.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

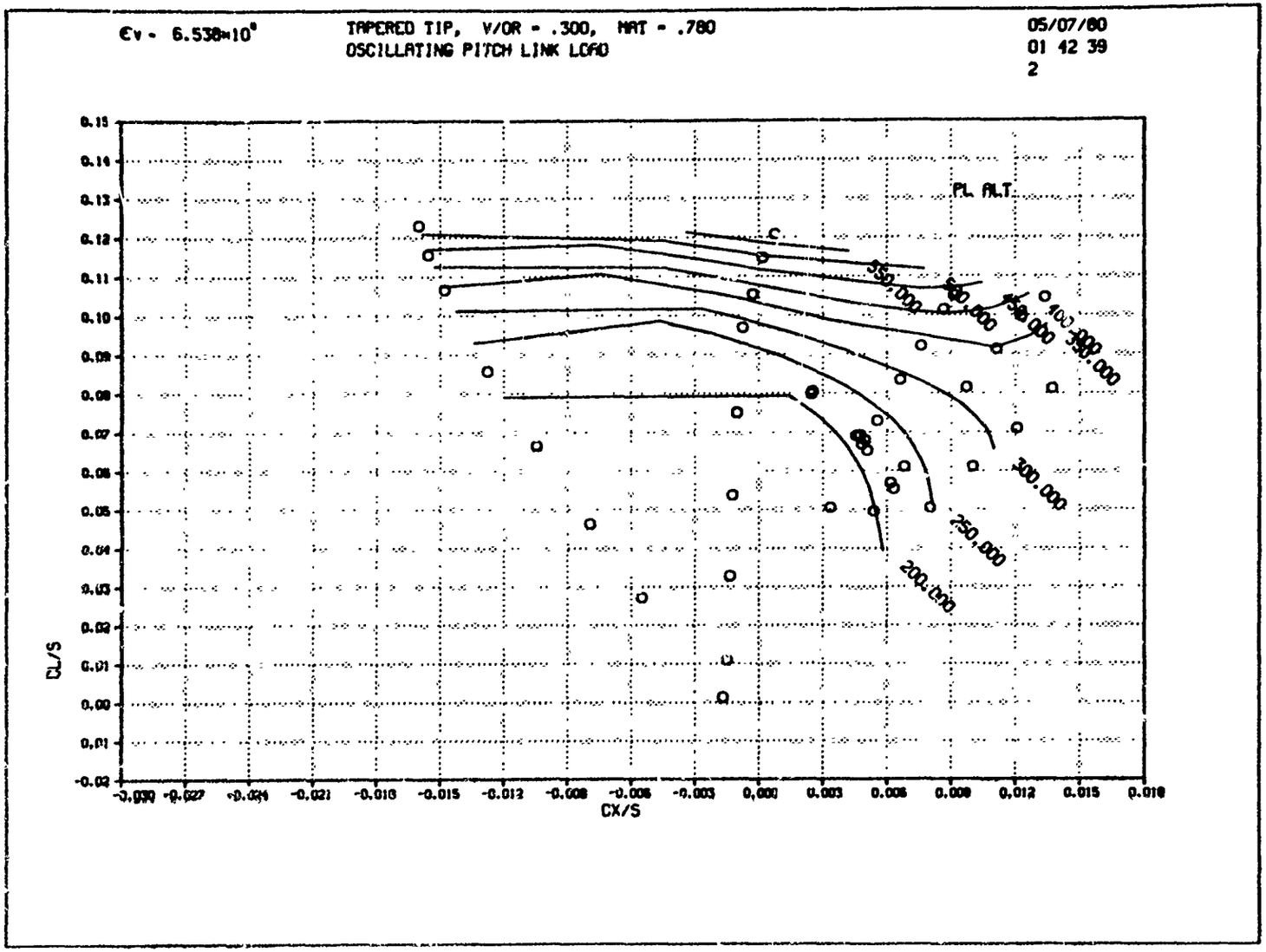

€v = 2.021×10¹
SWEPT TIP, V/OR = .200, MAT = .720
OSCILLATING PITCH LINK LOAD
05/02/80
21 49 10
1
PL ALT
450.000
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

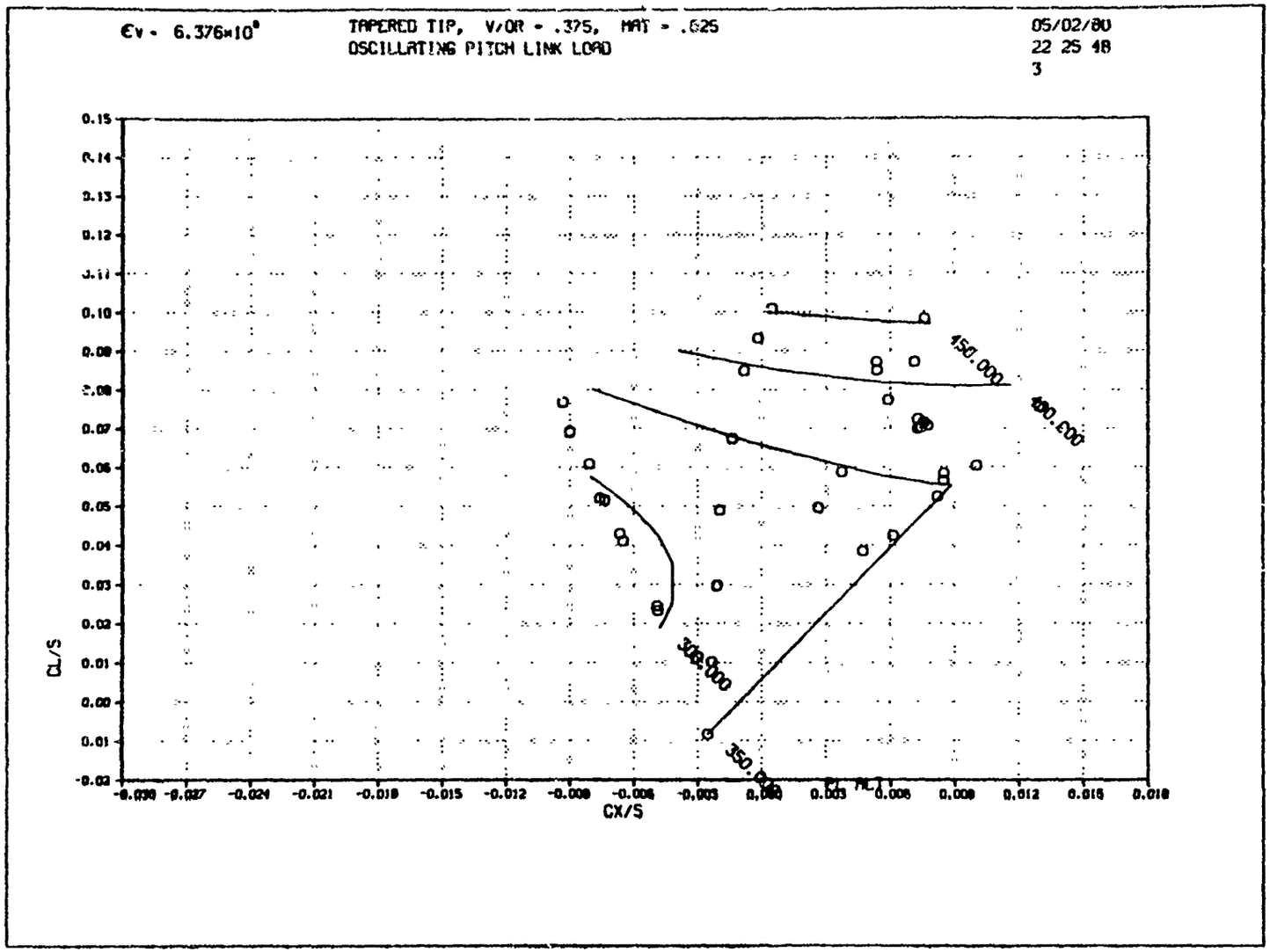

Ev - 3.126*10⁶
SWEPT TIP, V/OR - .300, MAT - .780
OSCILLATING PITCH LINK LOAD
05/07/80
01 31 04
2
CL/S
CX/S
150.000
200.000
250.000
300.000
350.000
400.000
450.000
PL FLT

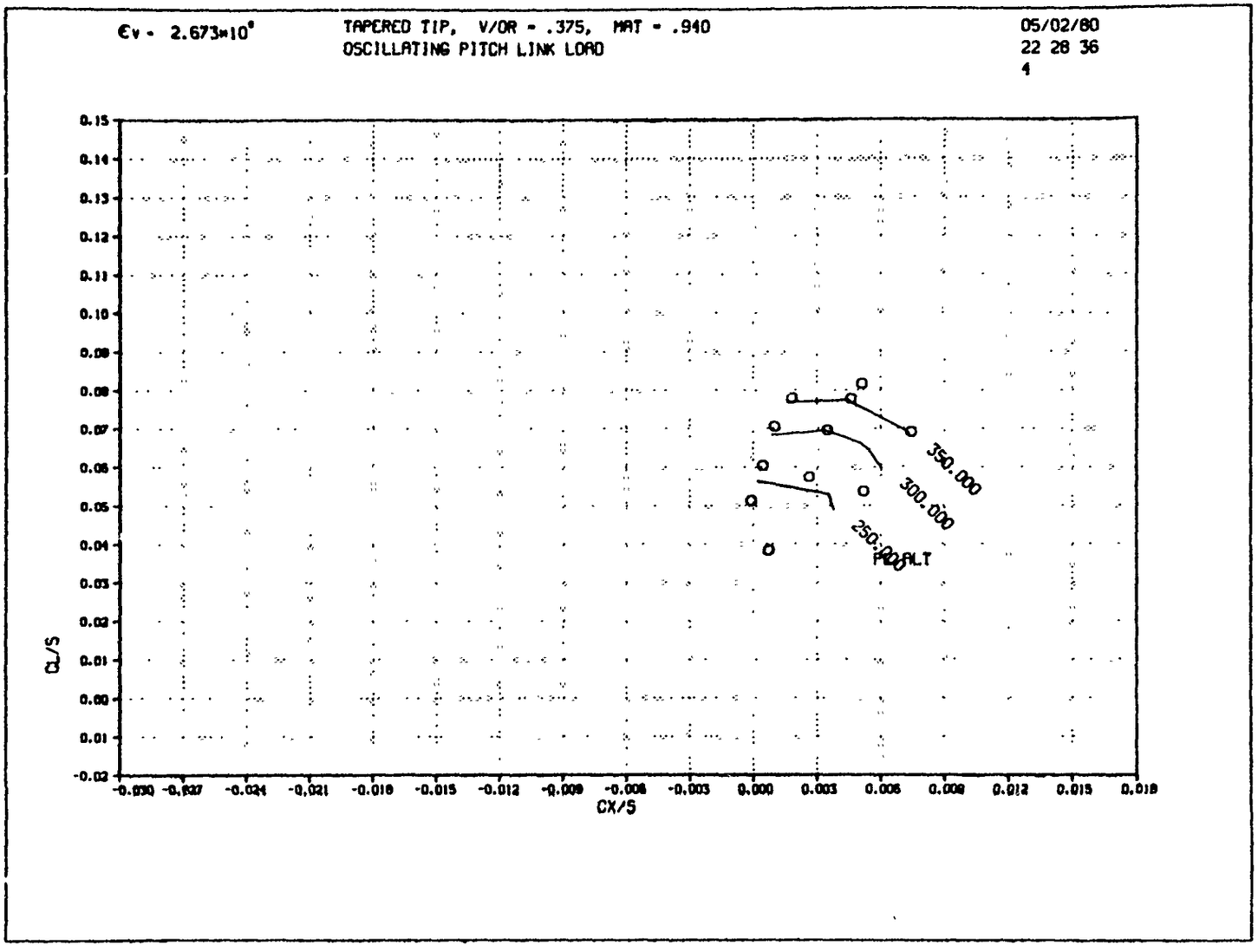

Ev = 6.925*10⁶
SWEPT TIP, V/OR = .375, MAT = .825
OSCILLATING PITCH LINK LOAD
05/02/80
21 57 44
3
CL/S
CX/S
250.000
300.000
350.000
400.000
450.000
PL PL.000

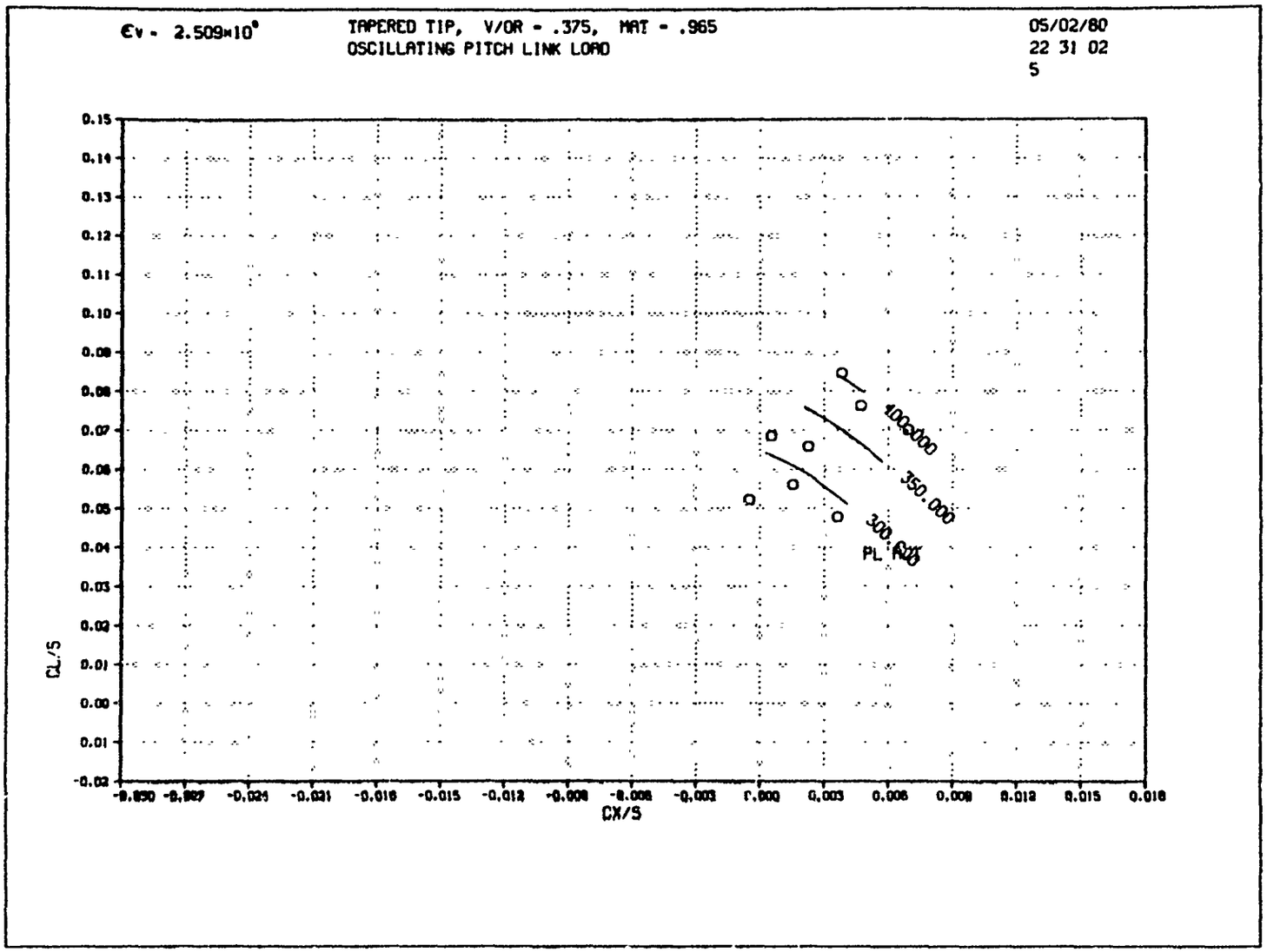

Ev - 1.781×10⁶
SWEPT TIP, V/OR - .375, MAT - .895
OSCILLATING PITCH LINK LOAD
05/07/80
01 33 31
4
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018
CX/S
CL/S
500.000
450.000
400.000
350.000
PLT

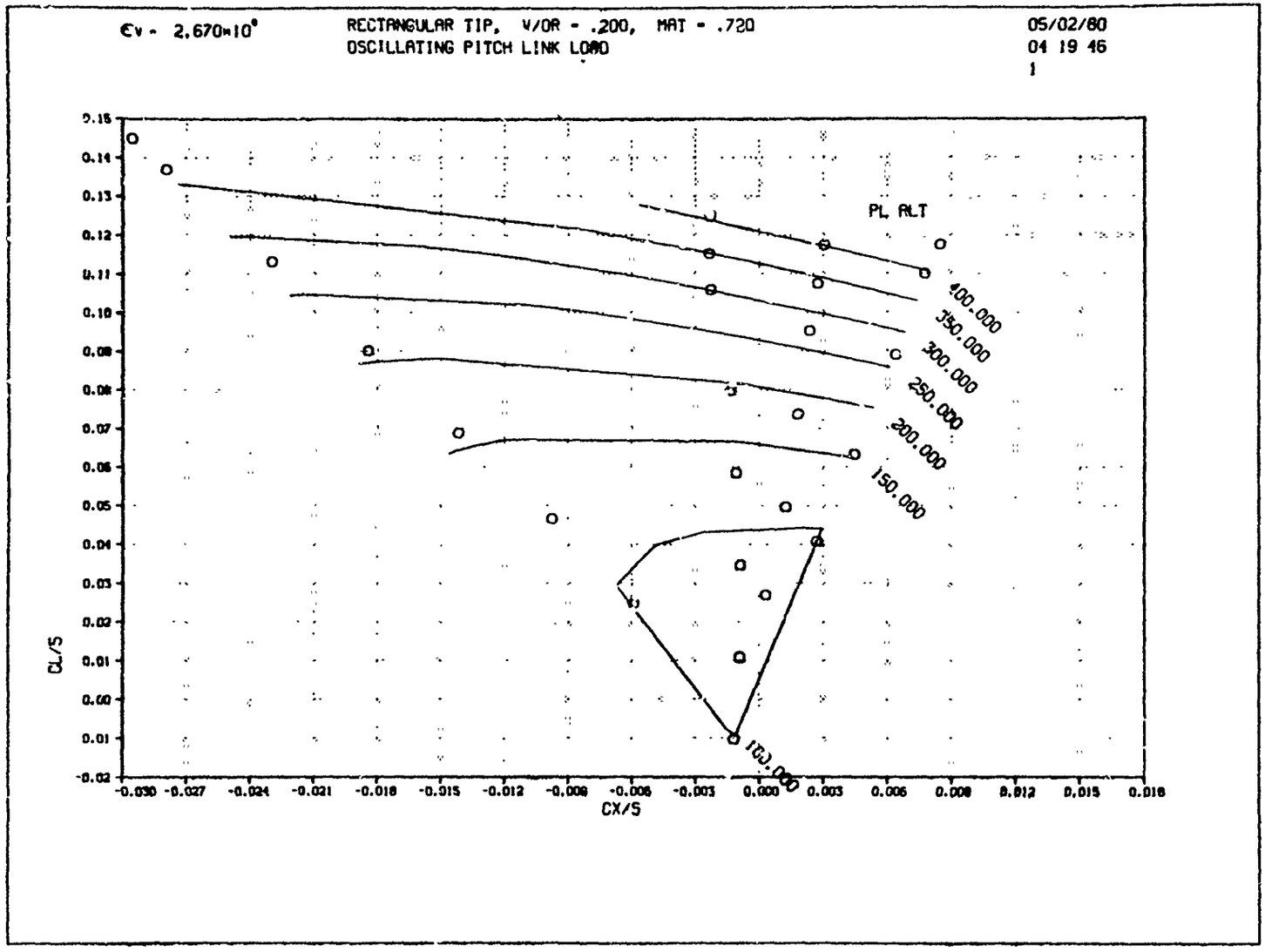

Ev - 7.396E10⁶
TAPERED TIP, V/OR - .200, MAT - .220
OSCILLATING PITCH LINK LOAD
05/02/80
22 17 20
1
PL ALT
550.000
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S


Ev - 6.538e10⁶
TAPERED TIP, V/OR - .300, MAT - .780
OSCILLATING PITCH LINK LOAD
05/07/80
01 42 39
2
PL ALT
350,000
250,000
300,000
200,000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

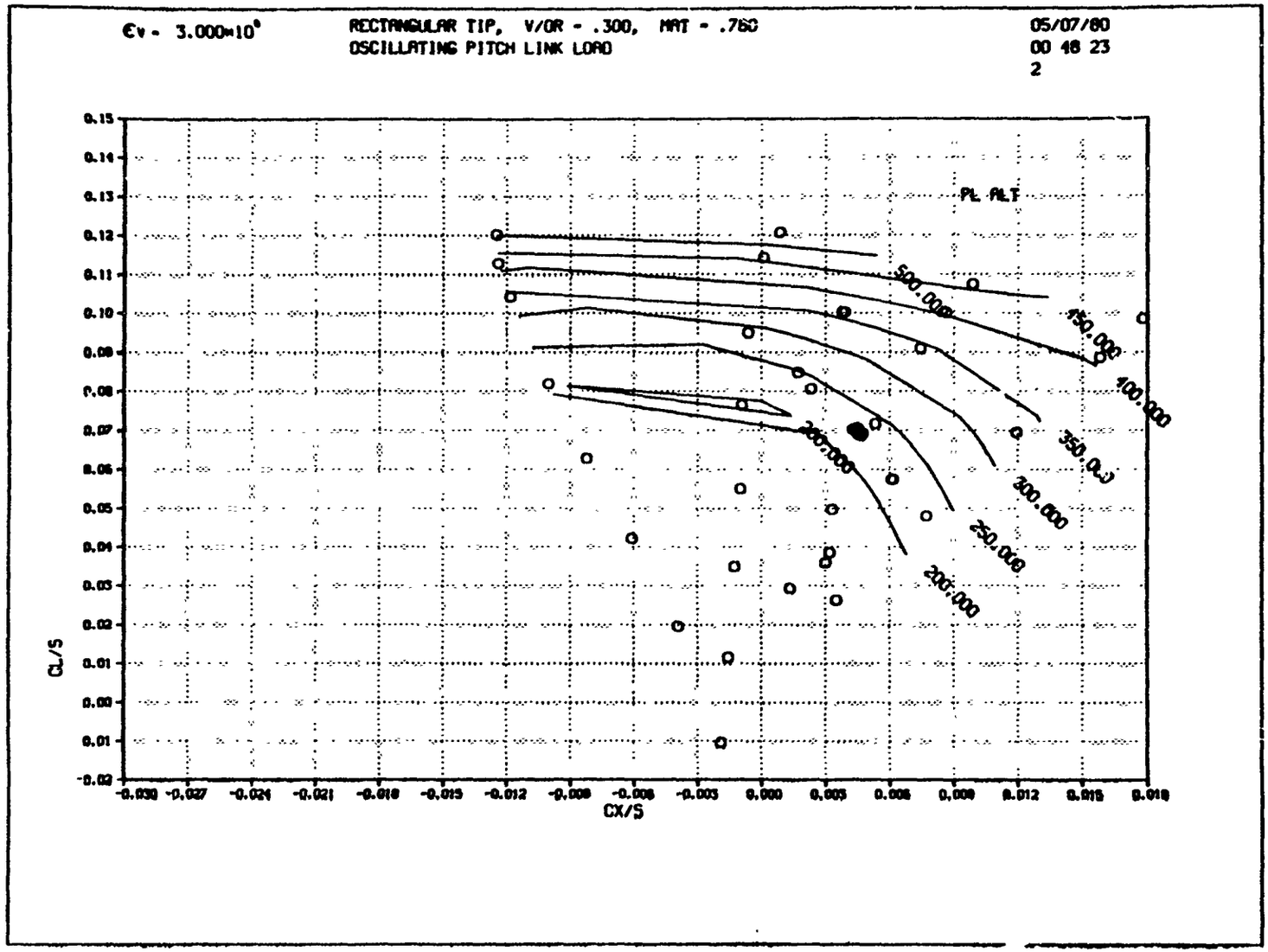

Ev = 6.376×10⁶
TAPERED TIP, V/OR = .375, MAT = .625
OSCILLATING PITCH LINK LOAD
05/02/80
22 25 48
3
CL/S
CX/S
450.000
300.000
350.

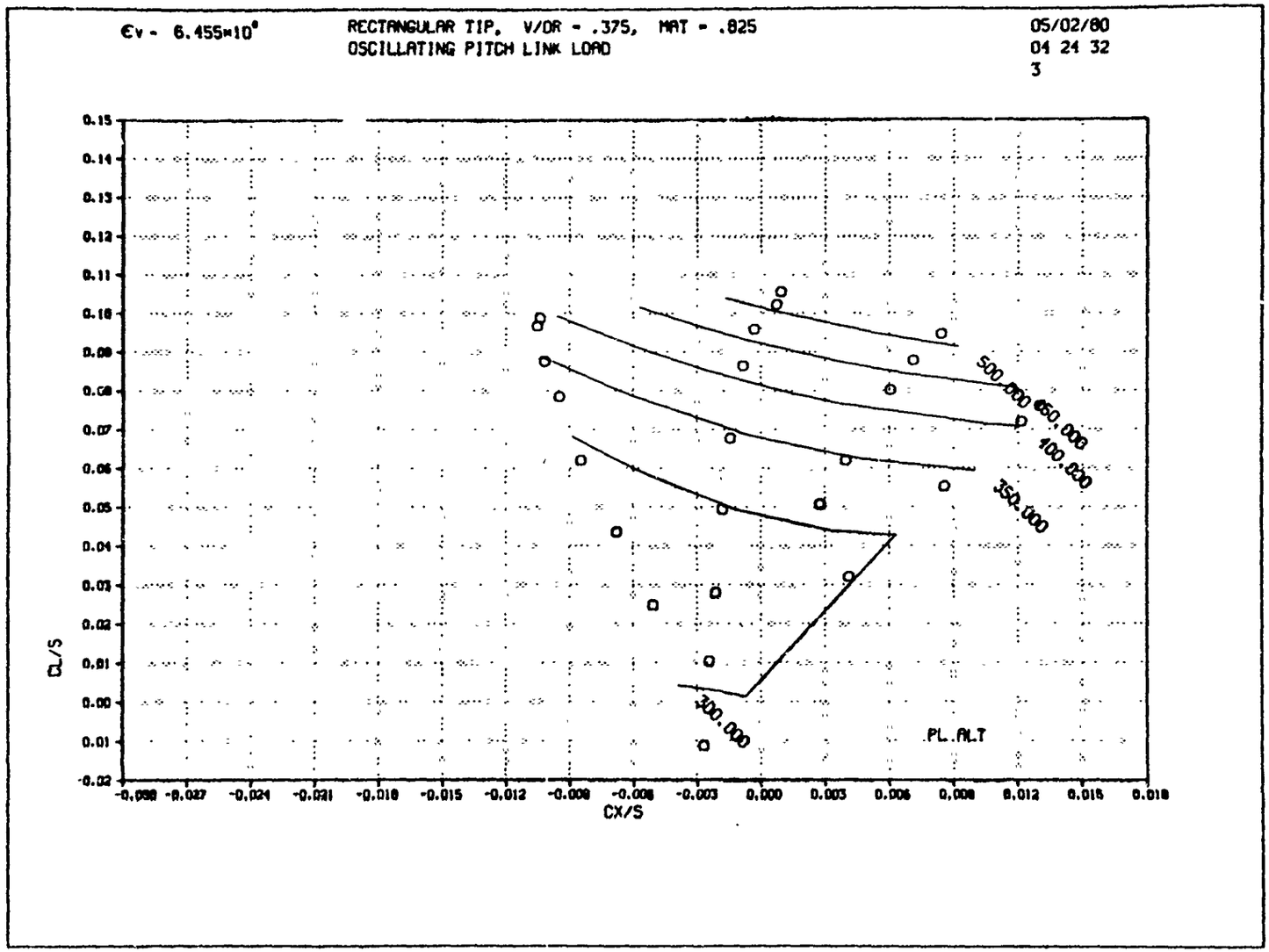

Ev - 2.673×10⁶
TAPERED TIP, V/OR - .375, MAT - .940
OSCILLATING PITCH LINK LOAD
05/02/80
22 28 36
4
CL/S
CX/S
350.000
300.000
250.000
PROFILE

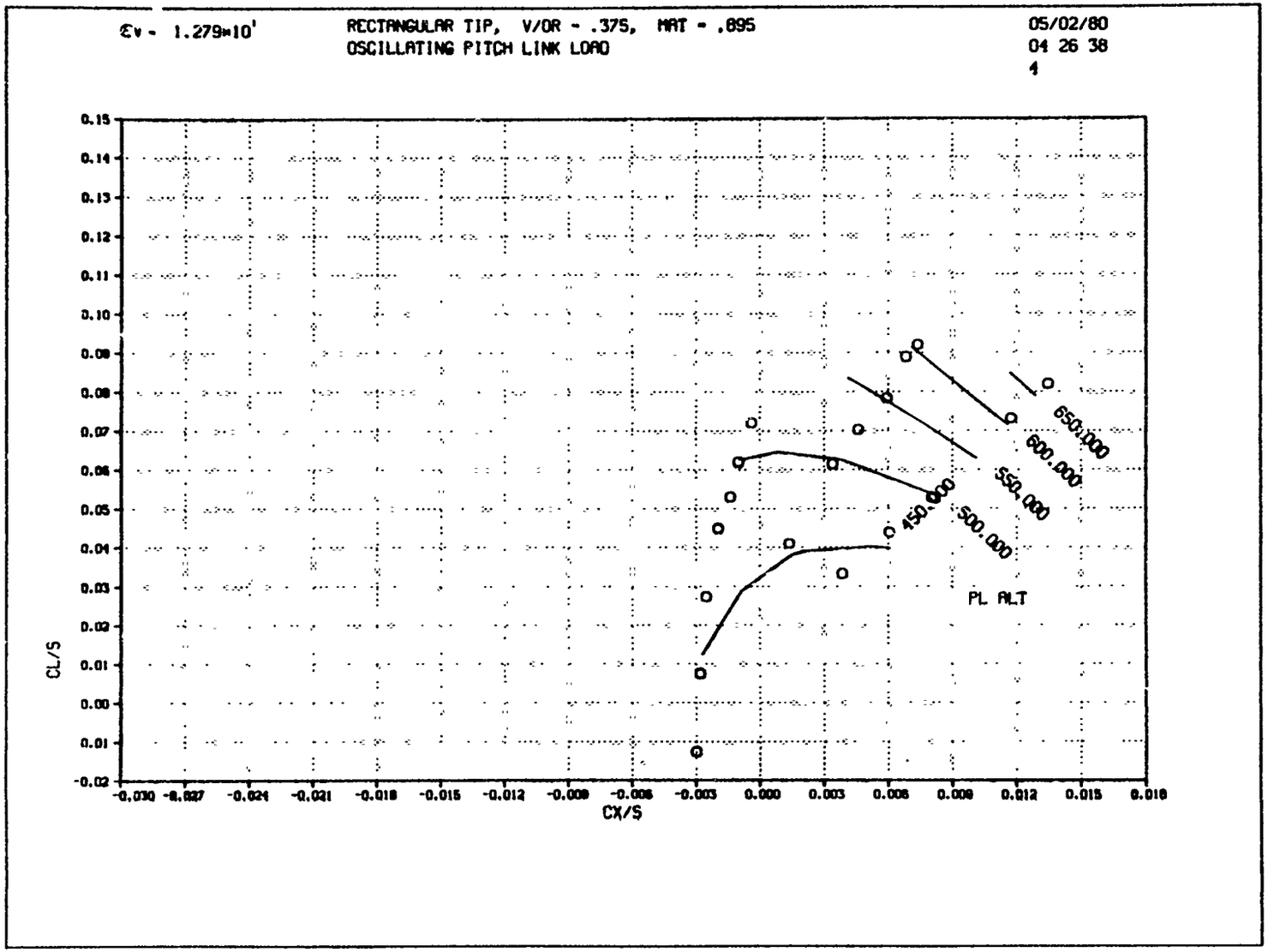

Ev = 2.509×10⁶
TAPERED TIP, V/OR = .375, MAT = .965
OSCILLATING PITCH LINK LOAD
05/02/80
22 31 02
5
CL/S
CX/S
100.000
350.000
300.000
PL

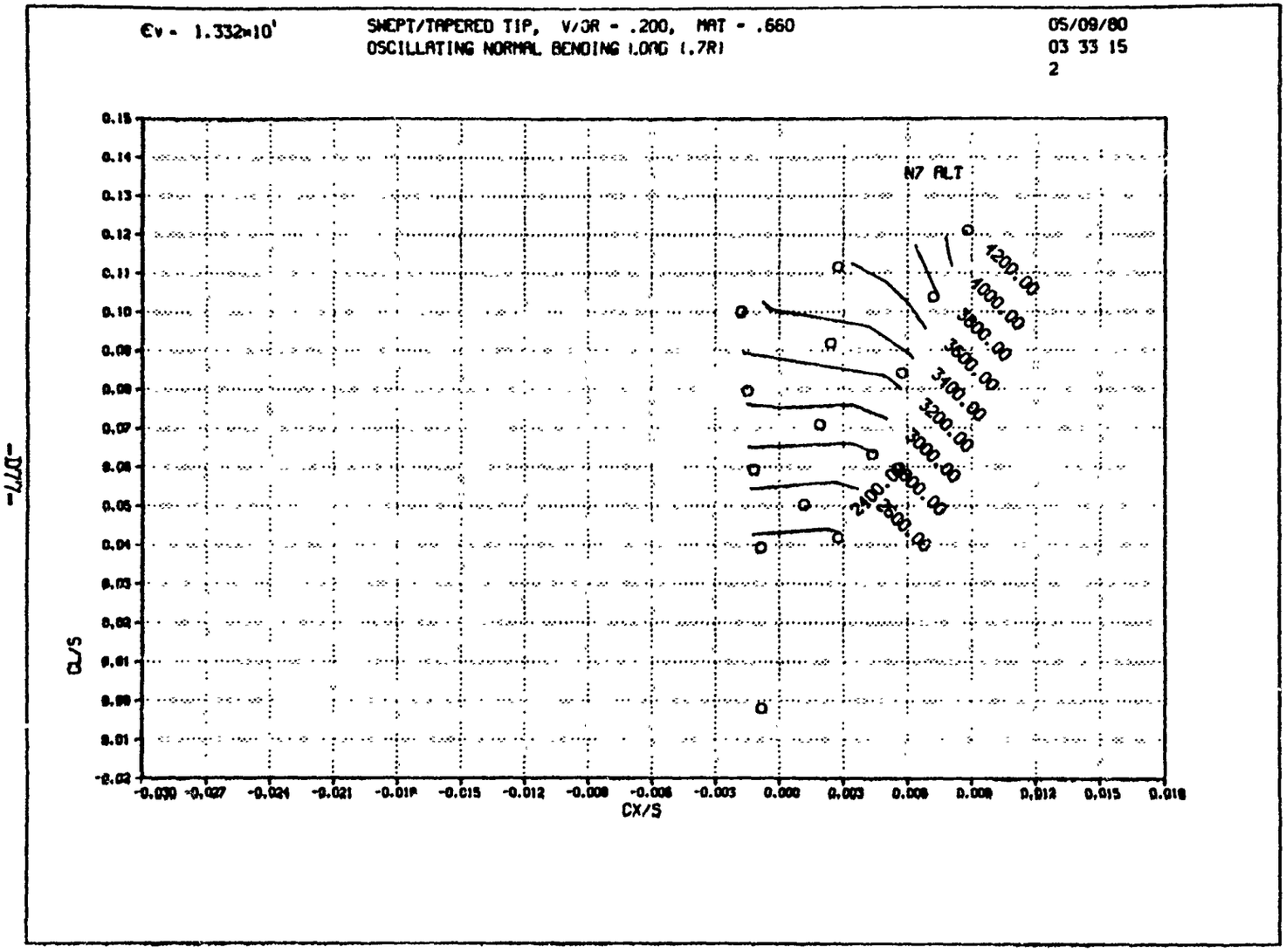

Ev - 2.670×10⁶
RECTANGULAR TIP, V/OR - .200, MAT - .720
OSCILLATING PITCH LINK LOAD
05/02/80
04 19 46
1
PL RLT
400.000
350.000
300.000
250.000
200.000
150.000
100.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

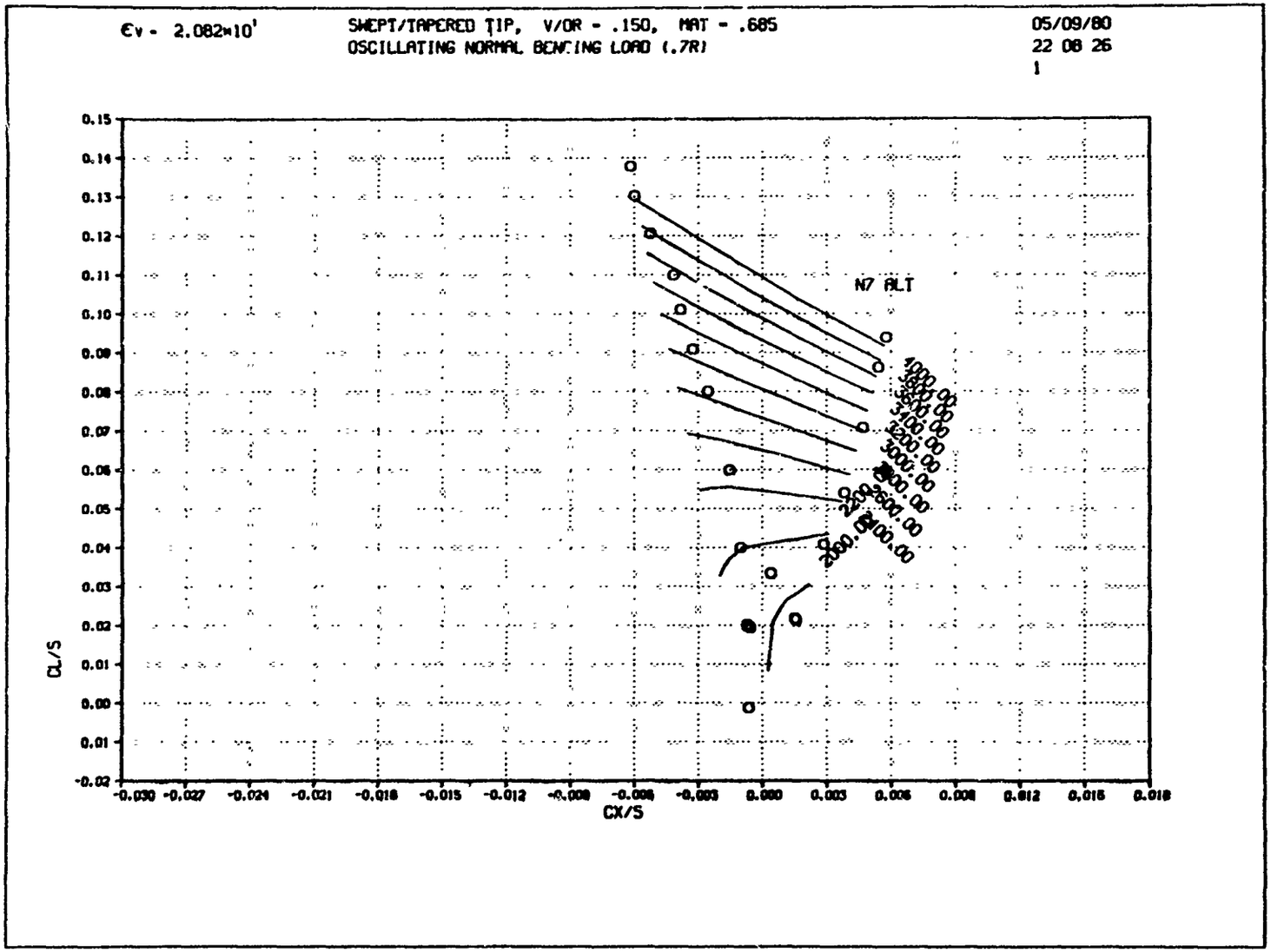
-313-

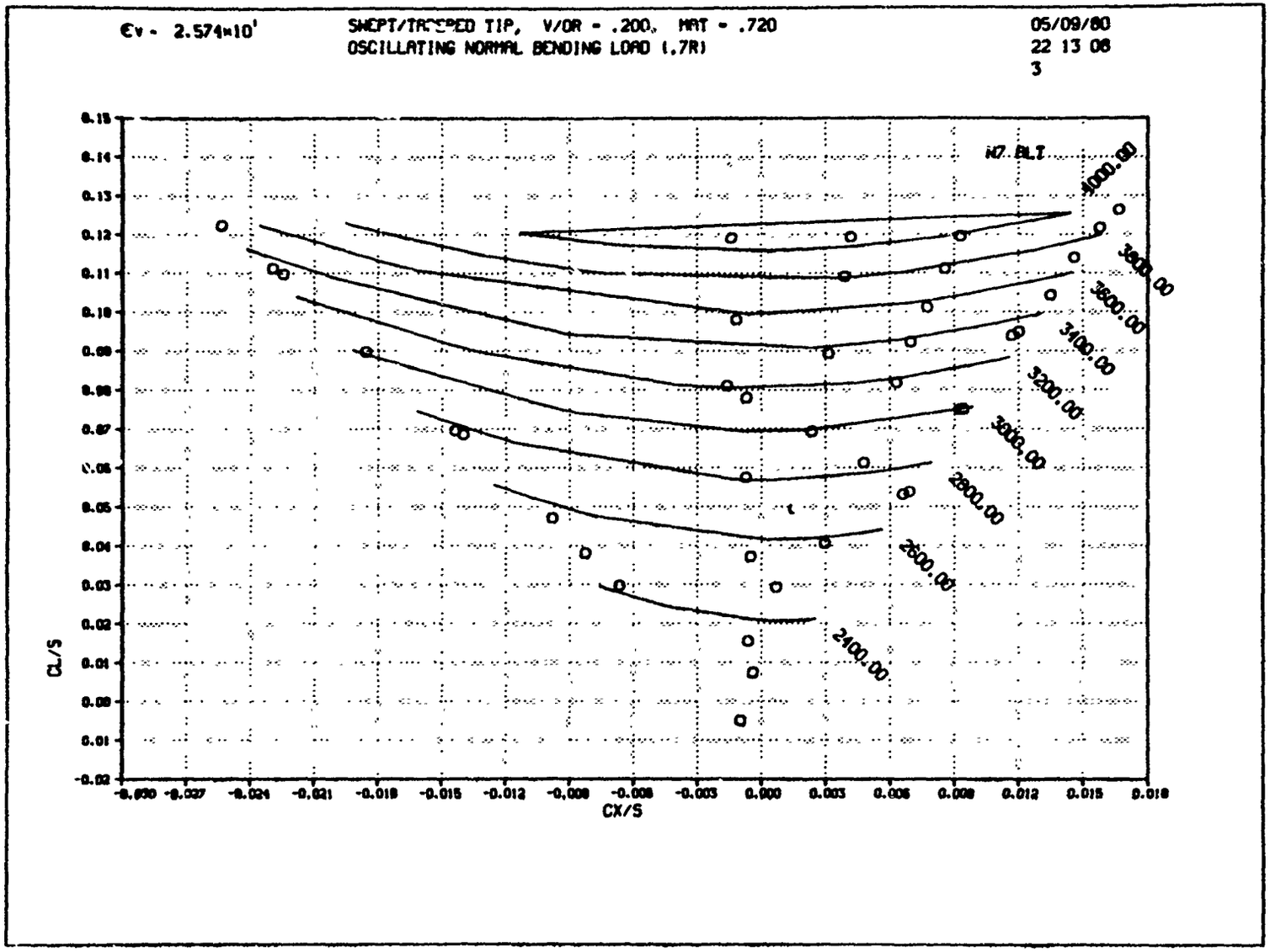

Ev - 3.000*10⁶
RECTANGULAR TIP, V/OR - .300, MAT - .760
OSCILLATING PITCH LINK LOAD
05/07/80
00 48 23
2
PL ALT
500.000
450.000
400.000
350.000
300.000
250.000
200.000
150.000
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

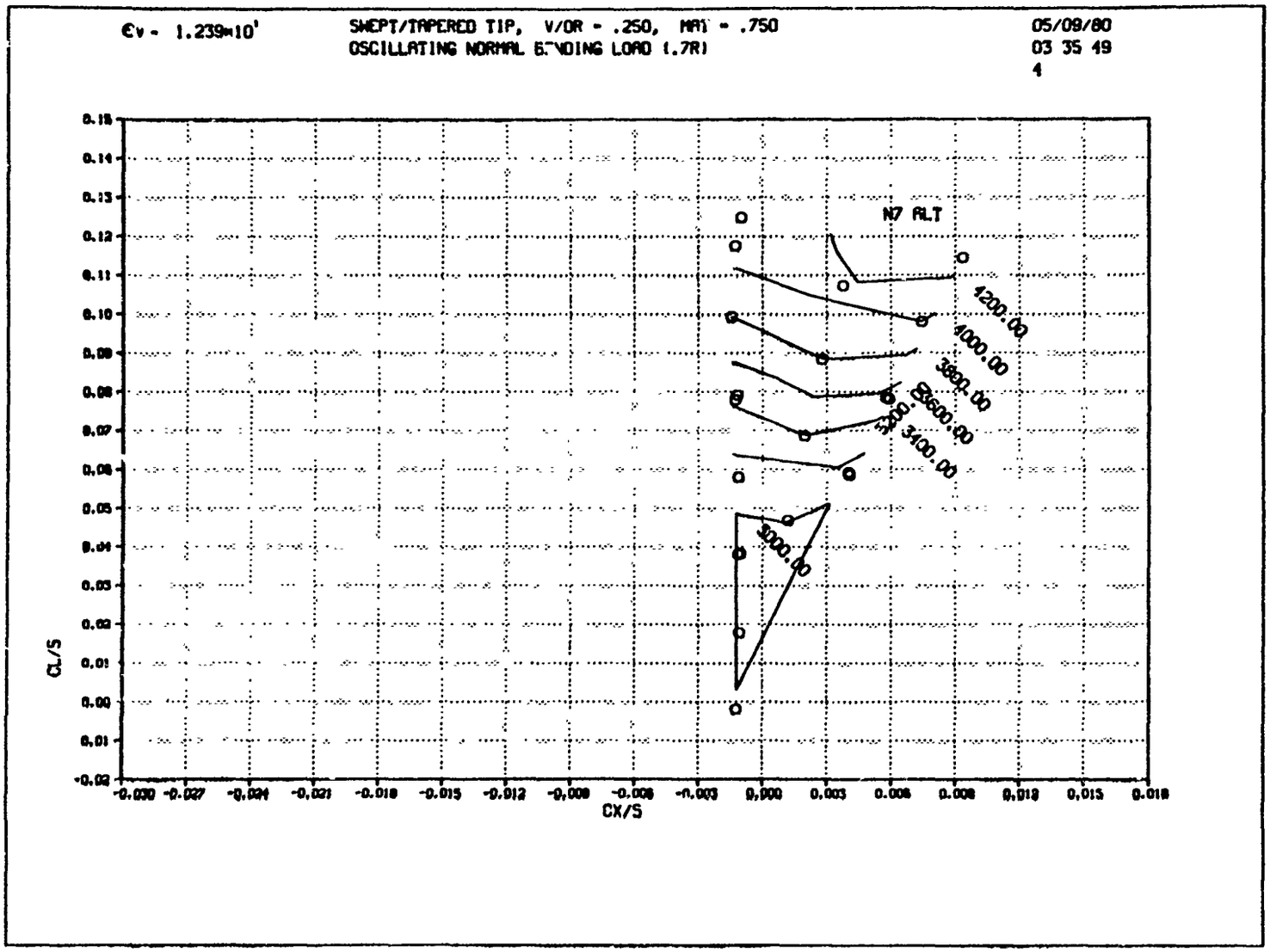

Ev - 6.455×10⁶
RECTANGULAR TIP, V/DR = .375, MAT = .825
OSCILLATING PITCH LINK LOAD
05/02/80
04 24 32
3
CL/S
CX/S
500,000
450,000
400,000
350,000
300,000
PL.ALT

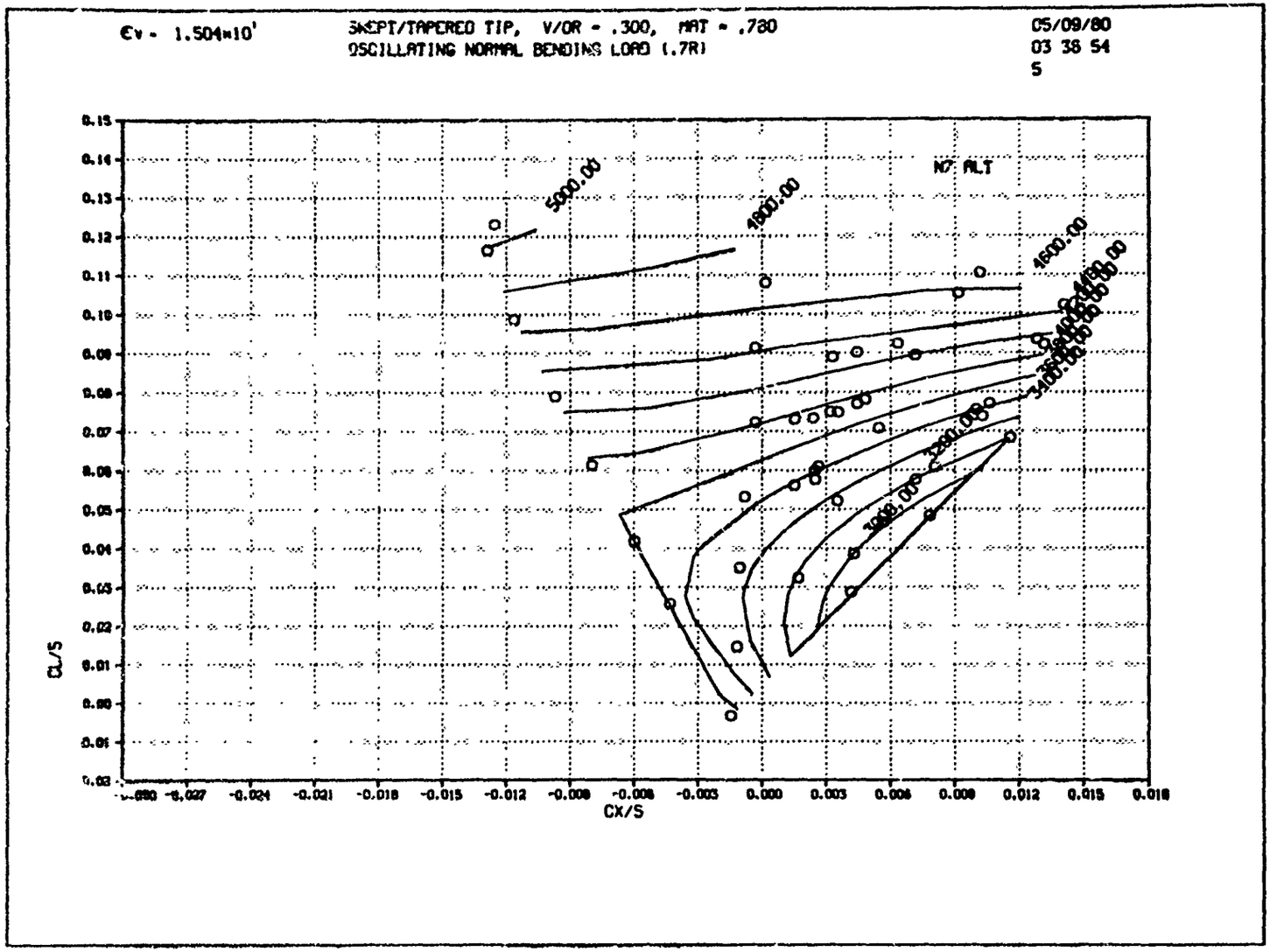

Ev - 1.279*10'
RECTANGULAR TIP, V/OR - .375, MAT - .895
OSCILLATING PITCH LINK LOAD
05/02/80
04 26 38
4
650.000
600.000
550.000
500.000
450.000
PL ALT
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

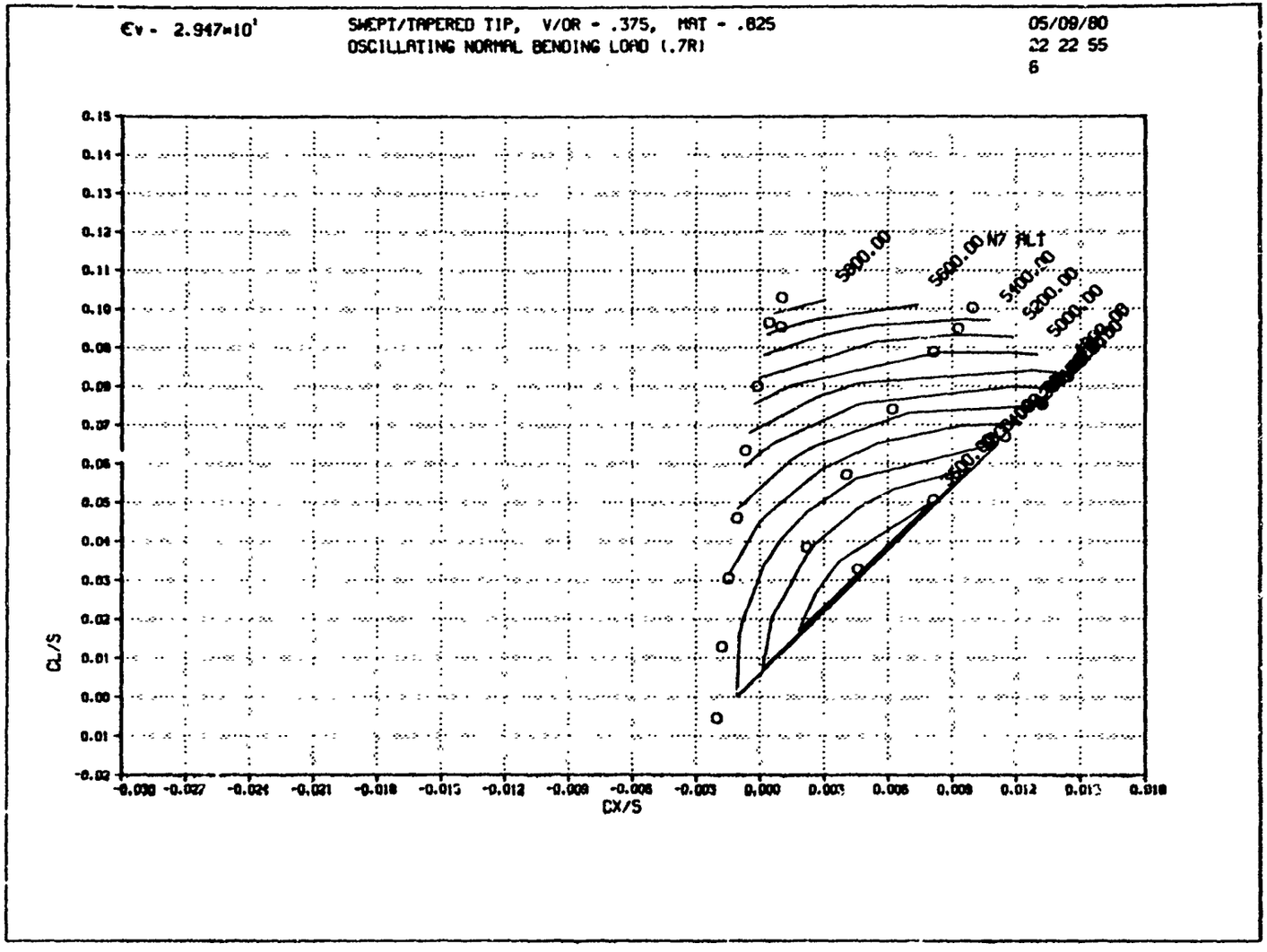

Cv = 1.332×10'
SWEPT/TAPERED TIP, V/OR = .200, MAT = .660
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
03 33 15
2
N7 ALT
4200.00
4000.00
3800.00
3600.00
3400.00
3200.00
3000.00
2800.00
2600.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

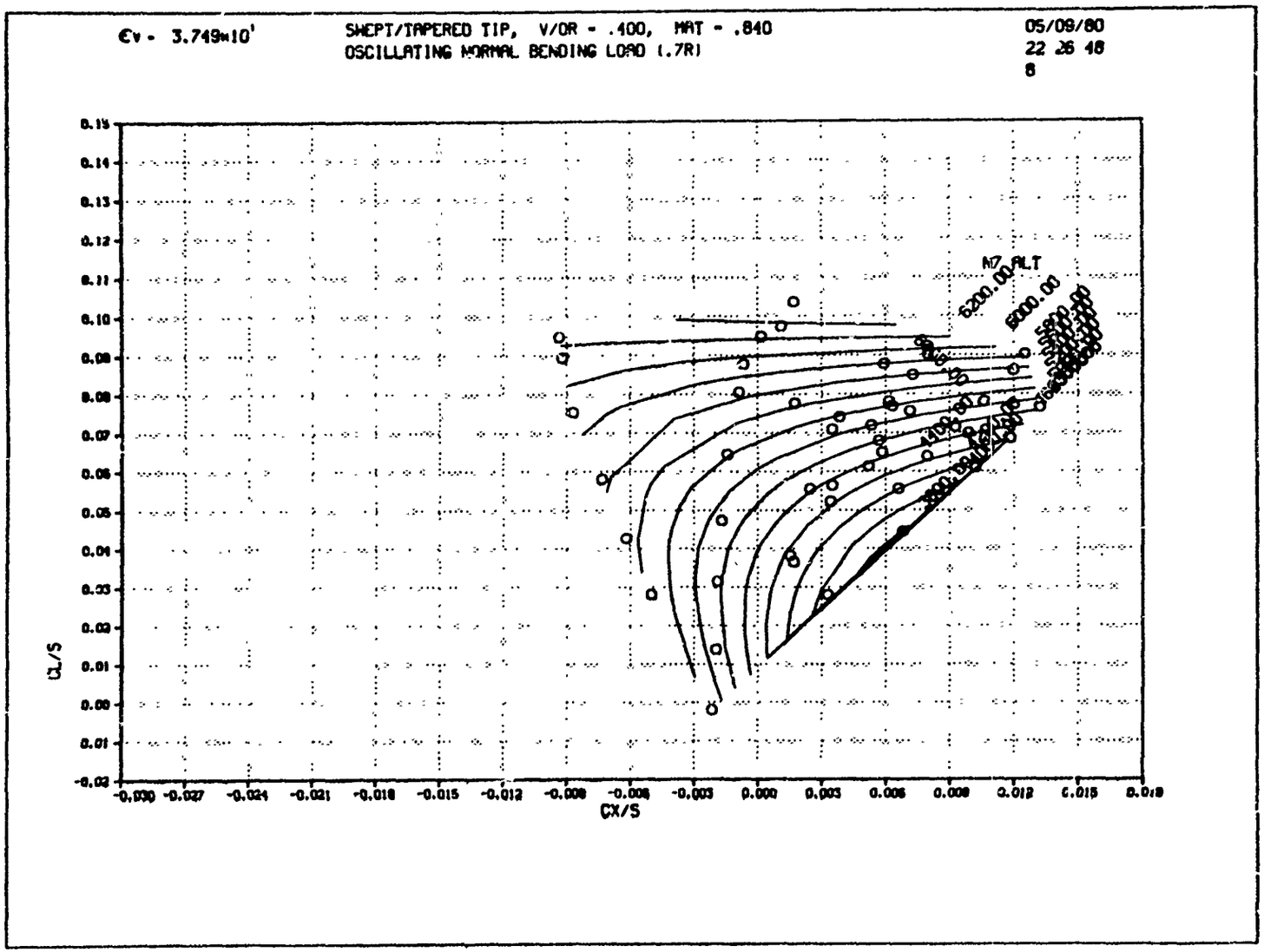

Ev - 2.082×10'
SWEPT/TAPERED TIP, V/OR - .150, MAT - .685
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
22 08 26
1
N7 ALT
CL/S
CX/S

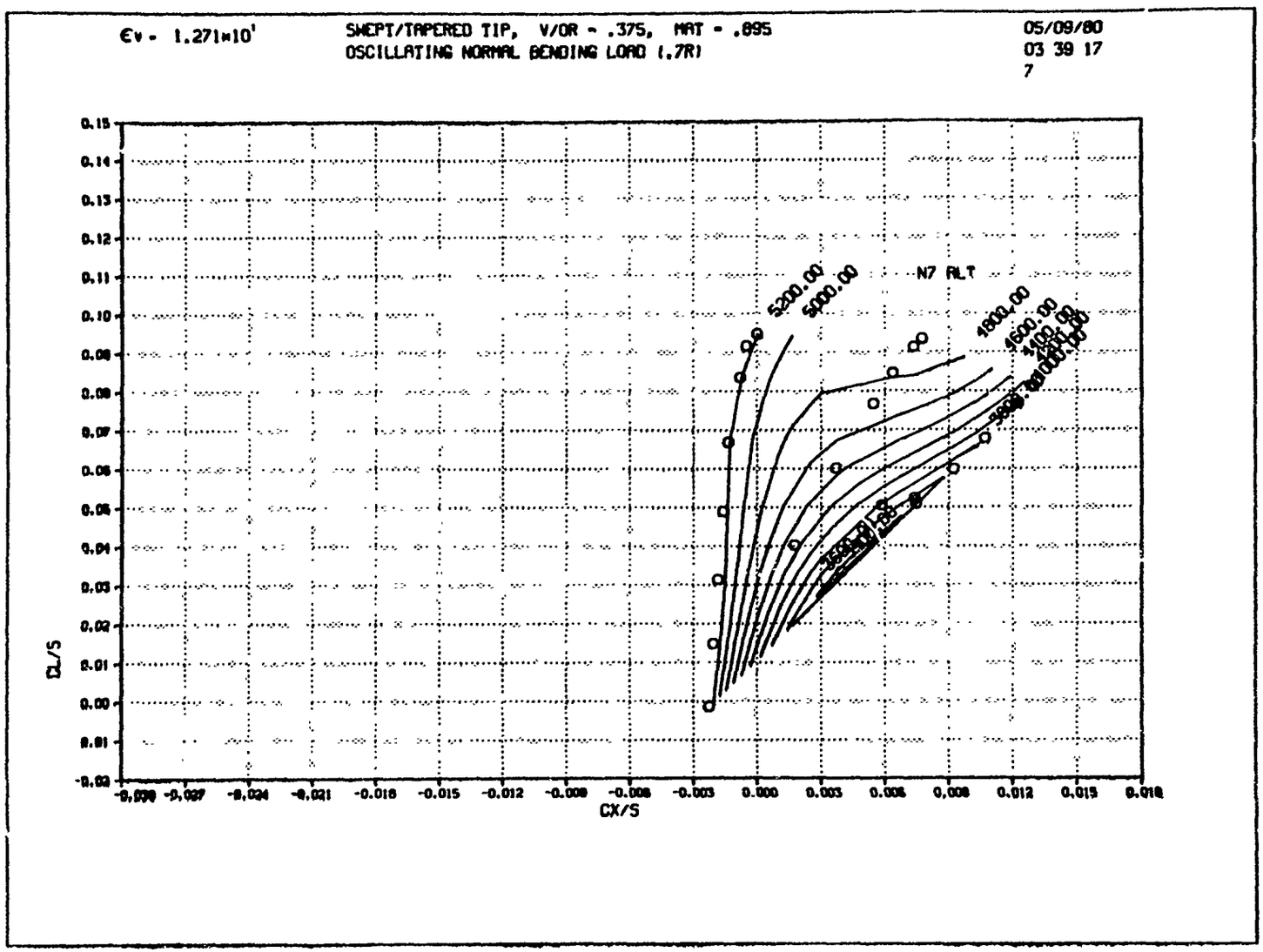

Ev - 2.574x10'
SWEPT/TRCPED TIP, V/OR - .200, MRT - .720
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
22 13 08
3
NO. BLT
4000.00
3800.00
3600.00
3400.00
3200.00
3000.00
2800.00
2600.00
2400.00
CL/S
CX/S

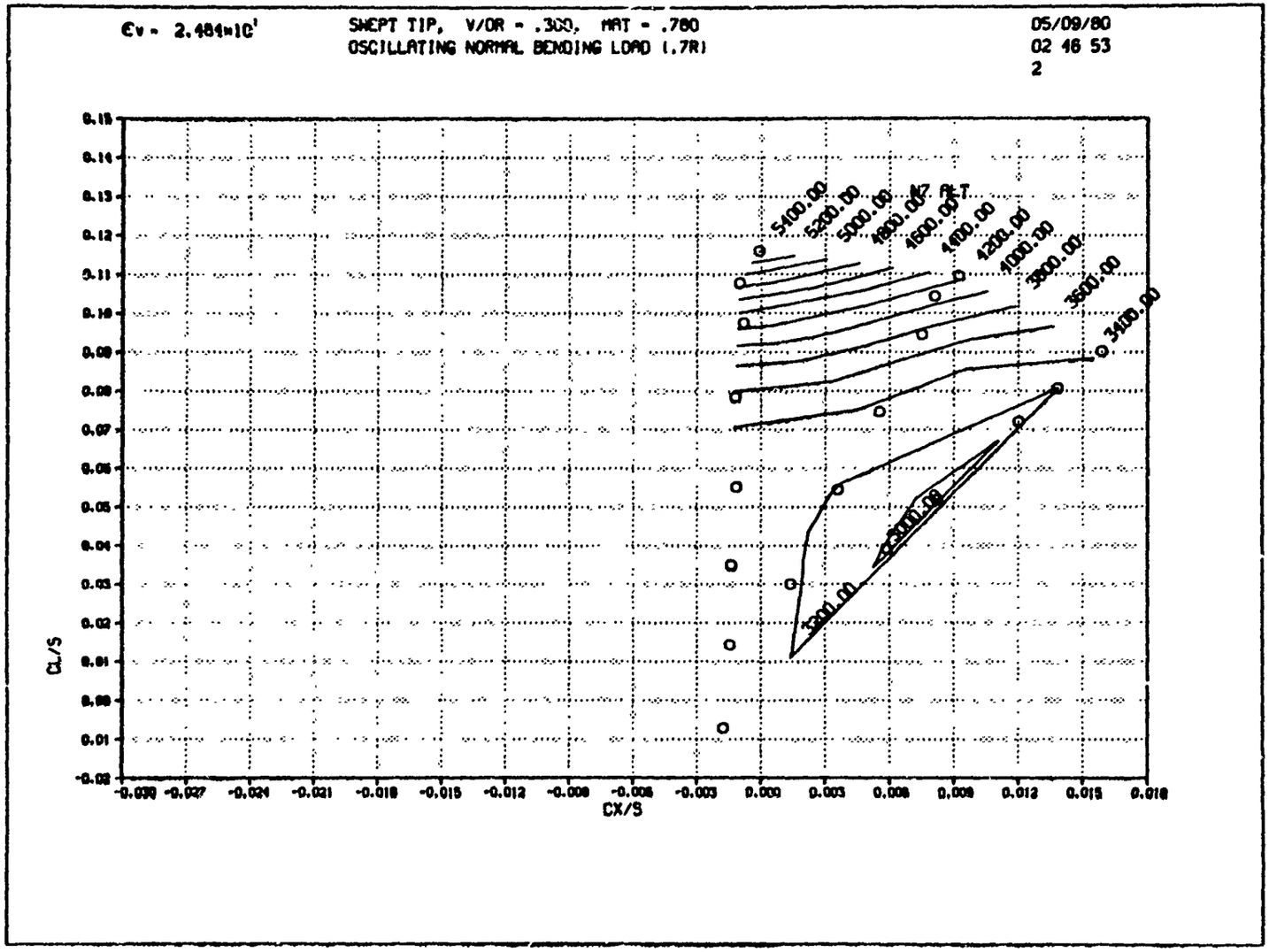

Ev = 1.239×10⁷
SWEPT/TAPERED TIP, V/OR = .250, MA1 = .750
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
03 35 49
4
N7 ALT
4200.00
4000.00
3800.00
3600.00
3400.00
3000.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018

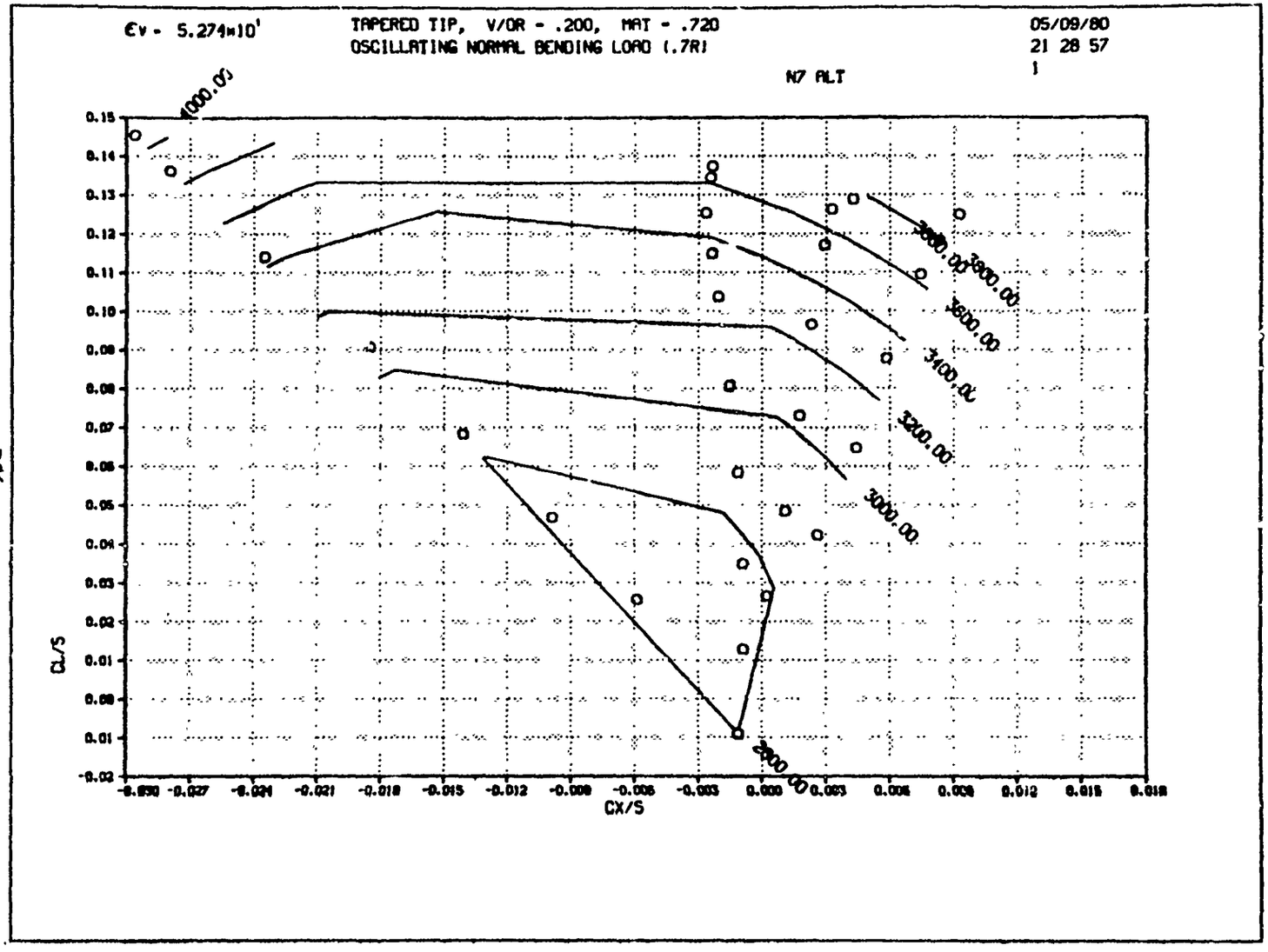

Cv = 1.504E+01
SWEPT/TAPERED TIP, V/OR = .300, MAT = .780
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
03 38 54
S
N7 ALT
5000.00
4500.00
CL/S
CX/S

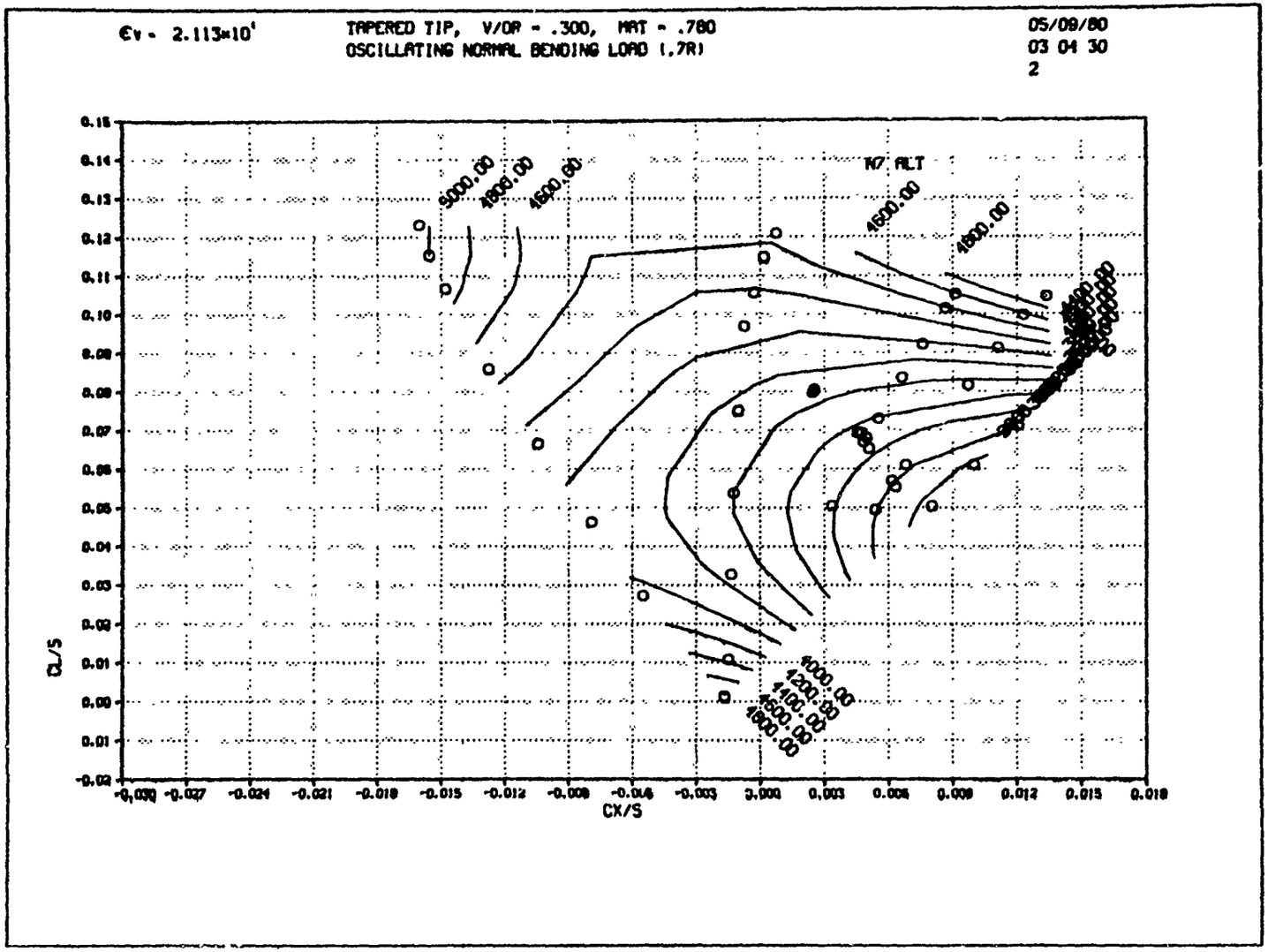

€v - 2.947×10¹
SWEPT/TAPERED TIP, V/OR - .375, MAT - .825
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
22 22 55
6
5800.00
5600.00 N7 ALT
5400.00
5200.00
5000.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

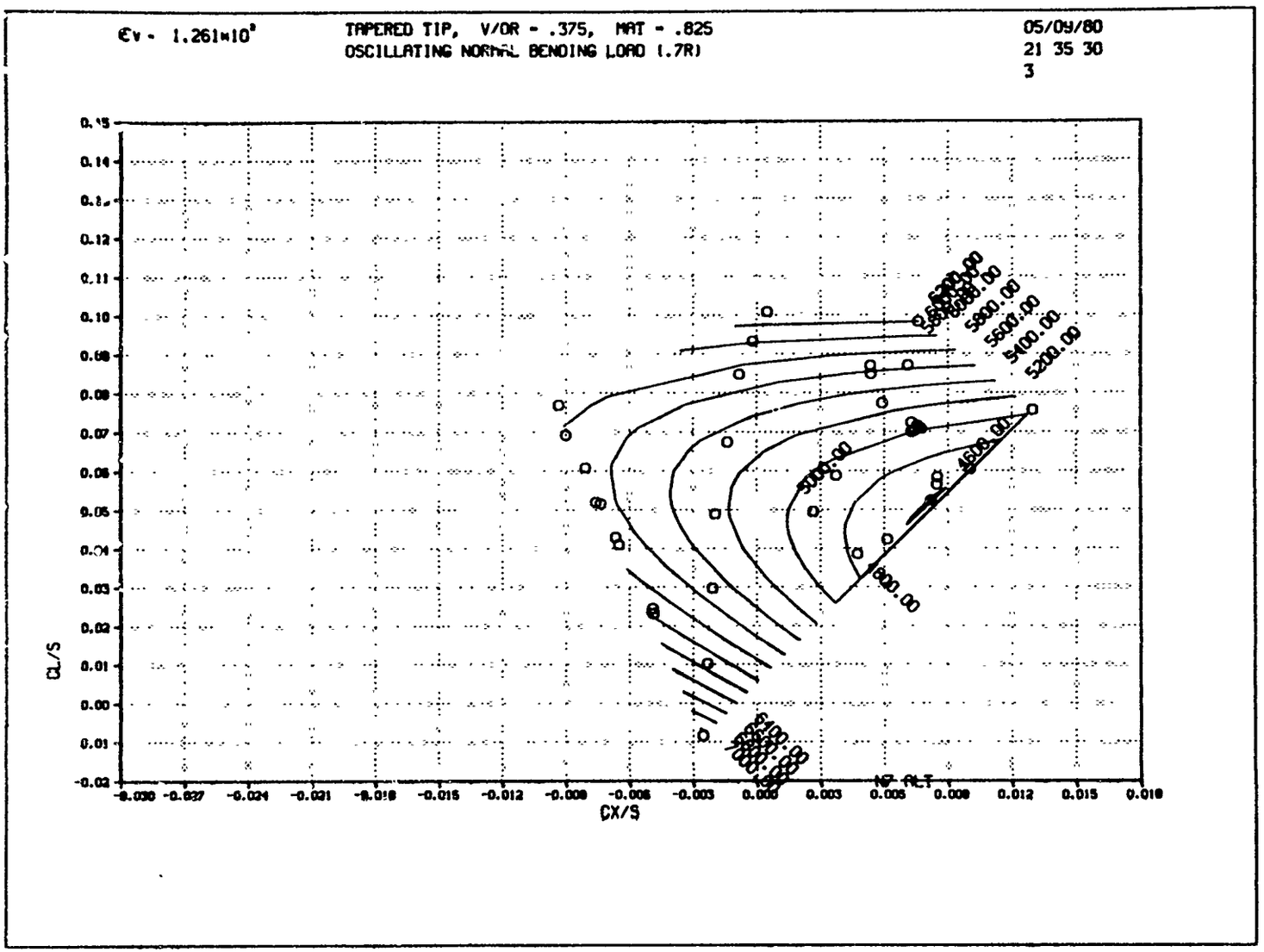

Ev - 3.749x10'
SWEPT/TAPERED TIP, V/OR - .400, MAT - .840
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
22 26 48
8
NZ ALT
6200.00
6000.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

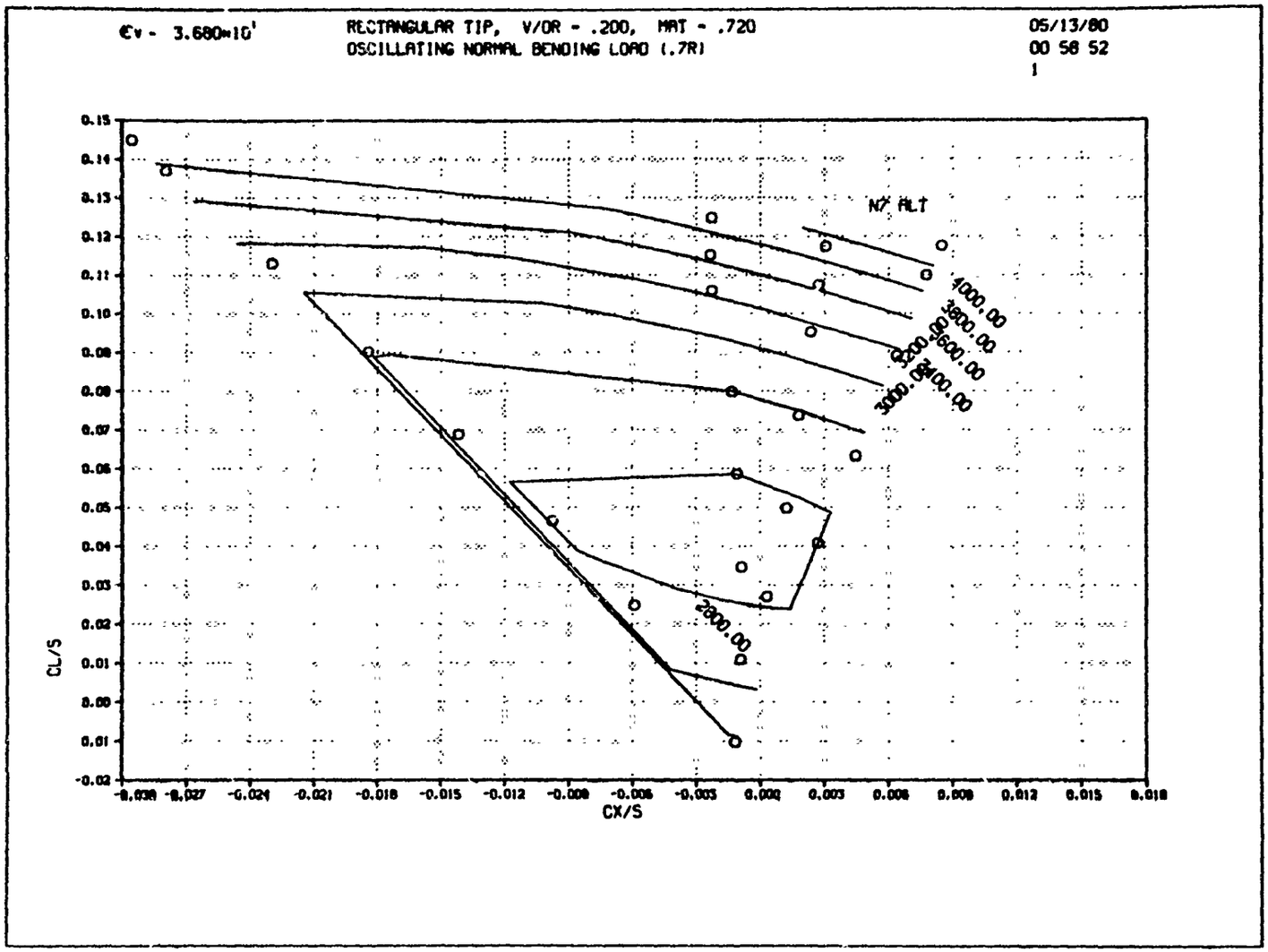

Ev = 1.271×10⁷
SWEPT/TAPERED TIP, V/OR = .375, MAT = .895
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
03 39 17
7
N7 ALT
5200.00
5000.00
1600.00
1500.00
CL/S
CX/S

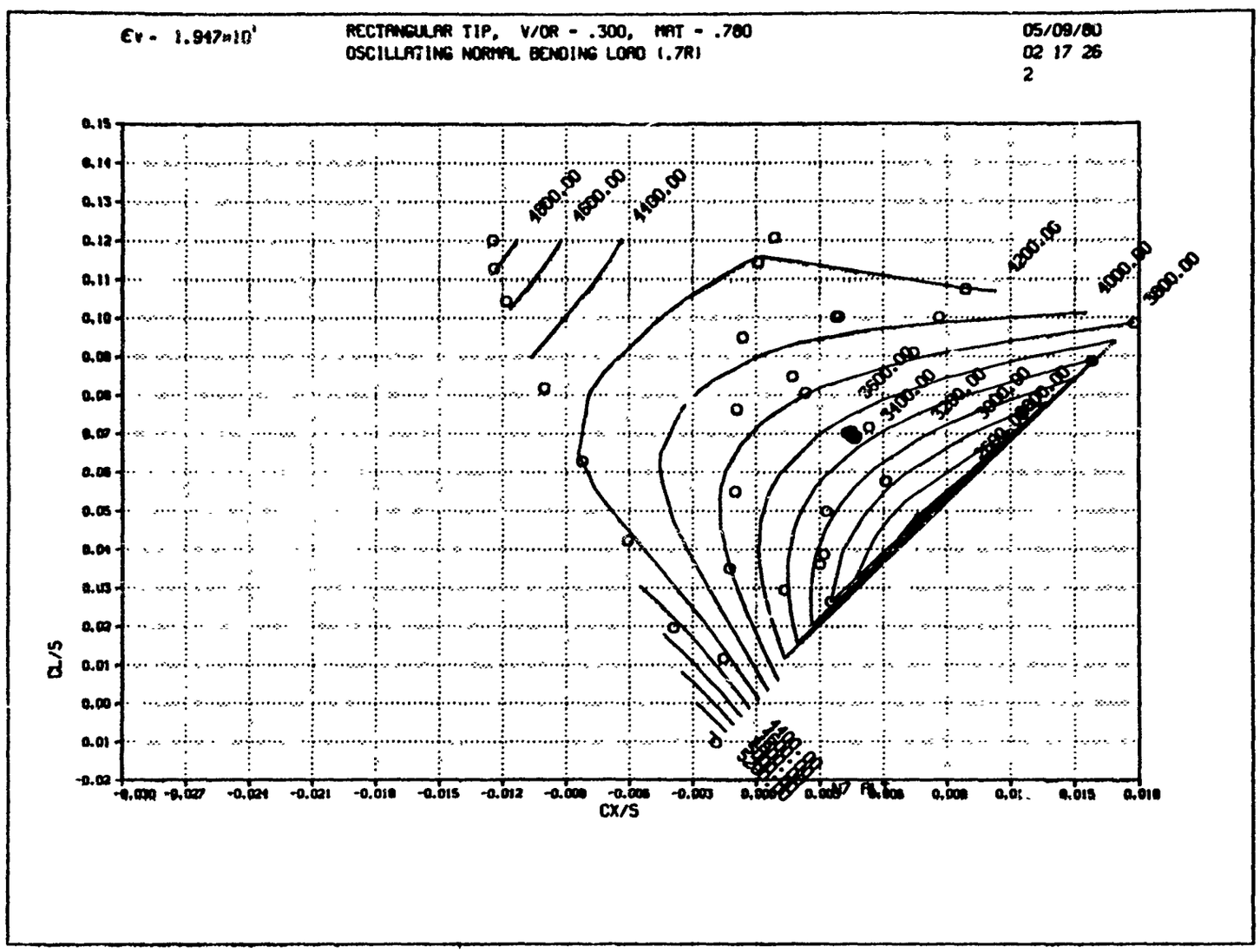

Ev = 2.484×10⁷
SWEPT TIP, V/OR = .300, MAT = .780
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
02 46 53
2
5400.00
5200.00
5000.00
4800.00
4600.00
4400.00
4200.00
4000.00
3800.00
3600.00
3400.00
3200.00
CL/S
CX/S

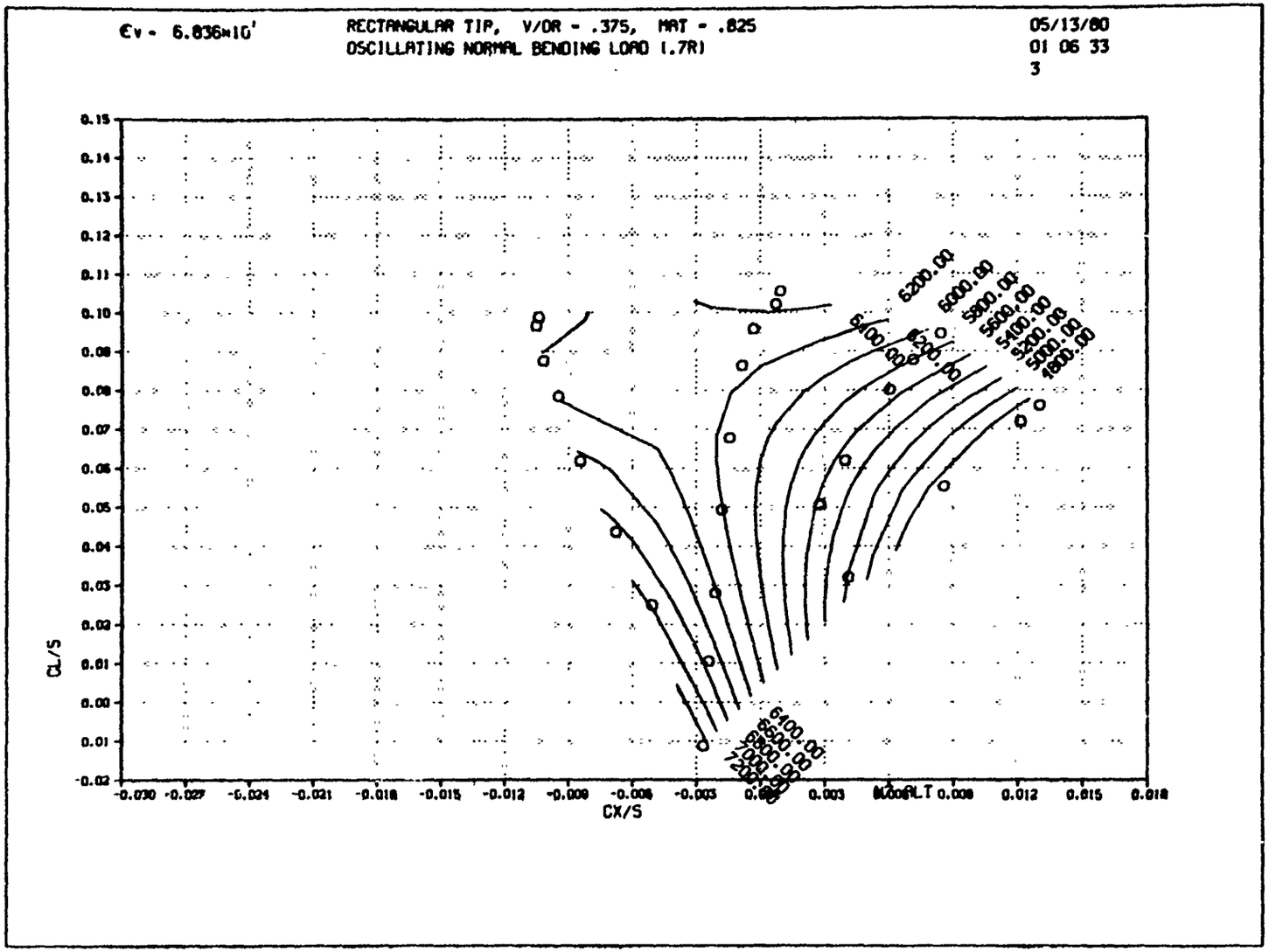

Ev - 5.274x10'
TAPERED TIP, V/OR - .200, MAT - .720
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
21 28 57
1
N7 ALT
4000.00
3800.00
3600.00
3400.00
3200.00
3000.00
2800.00
CL/S
CX/S

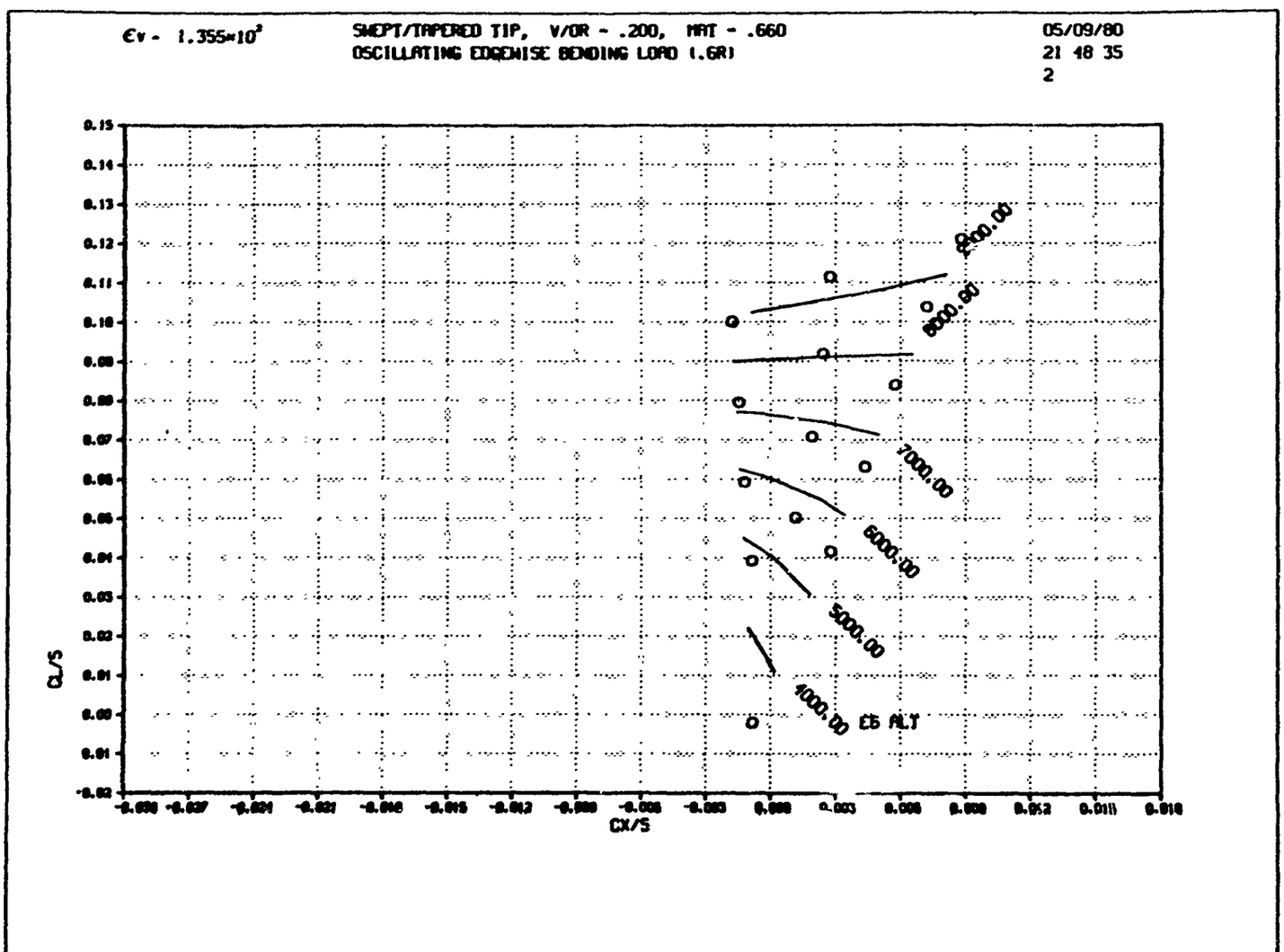

Re = 2.113×10⁶
TAPERED TIP, V/OR = .300, MAT = .780
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
03 04 30
2
M7 ALT
5000.00
4800.00
4600.00
4500.00
4500.00
4000.00
4200.00
4400.00
4600.00
4800.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

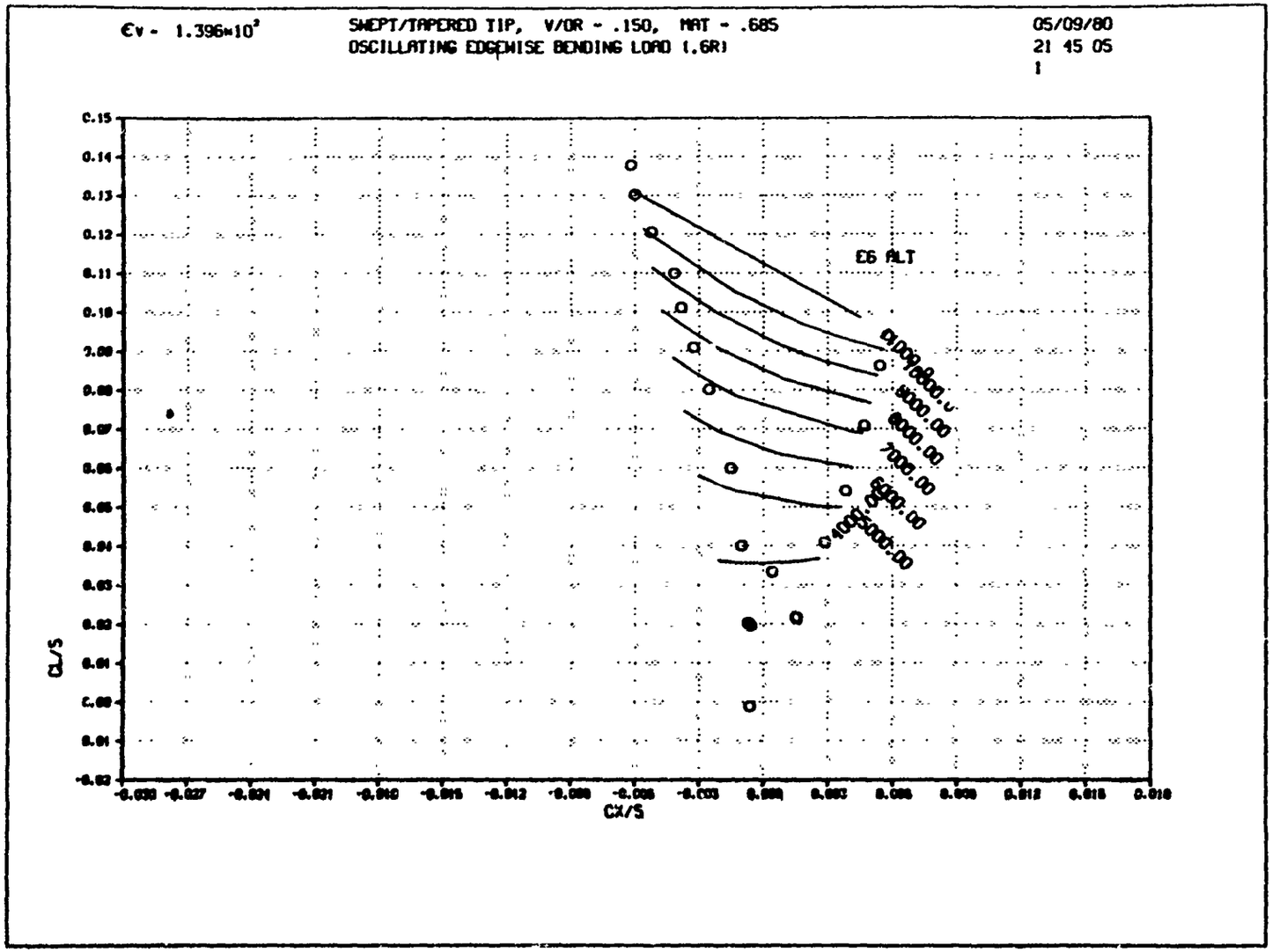

Ev - 1.261×10⁸
TAPERED TIP, V/OR - .375, MAT - .825
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
21 35 30
3
CL/S
CX/S
MP ALT
6200.00
6000.00
5800.00
5600.00
5400.00
5200.00
5000.00
4800.00
4600.00
4400.00
4200.00
4000.00
3800.00
3600.00
3400.00
3200.00
3000.00
2800.00
2600.00
2400.00
2200.00
2000.00
1800.00
1600.00
1400.00
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00

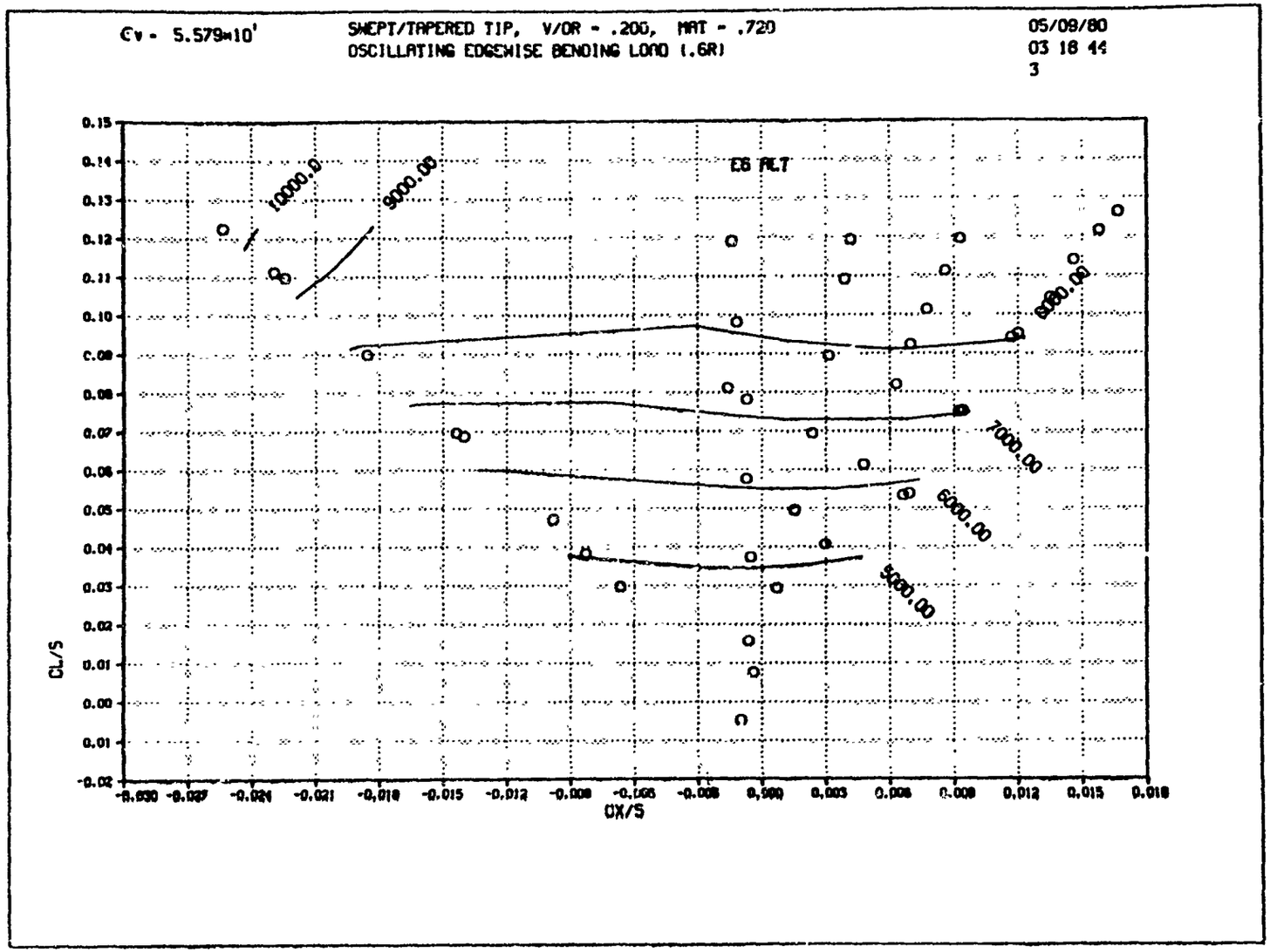

Cv - 3.680*10'
RECTANGULAR TIP, V/OR - .200, MAT - .720
OSCILLATING NORMAL BENDING LOAD (.7R)
05/13/80
00 58 52
1
M' ALT
4000.00
3800.00
3600.00
3400.00
3200.00
3000.00
2800.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018

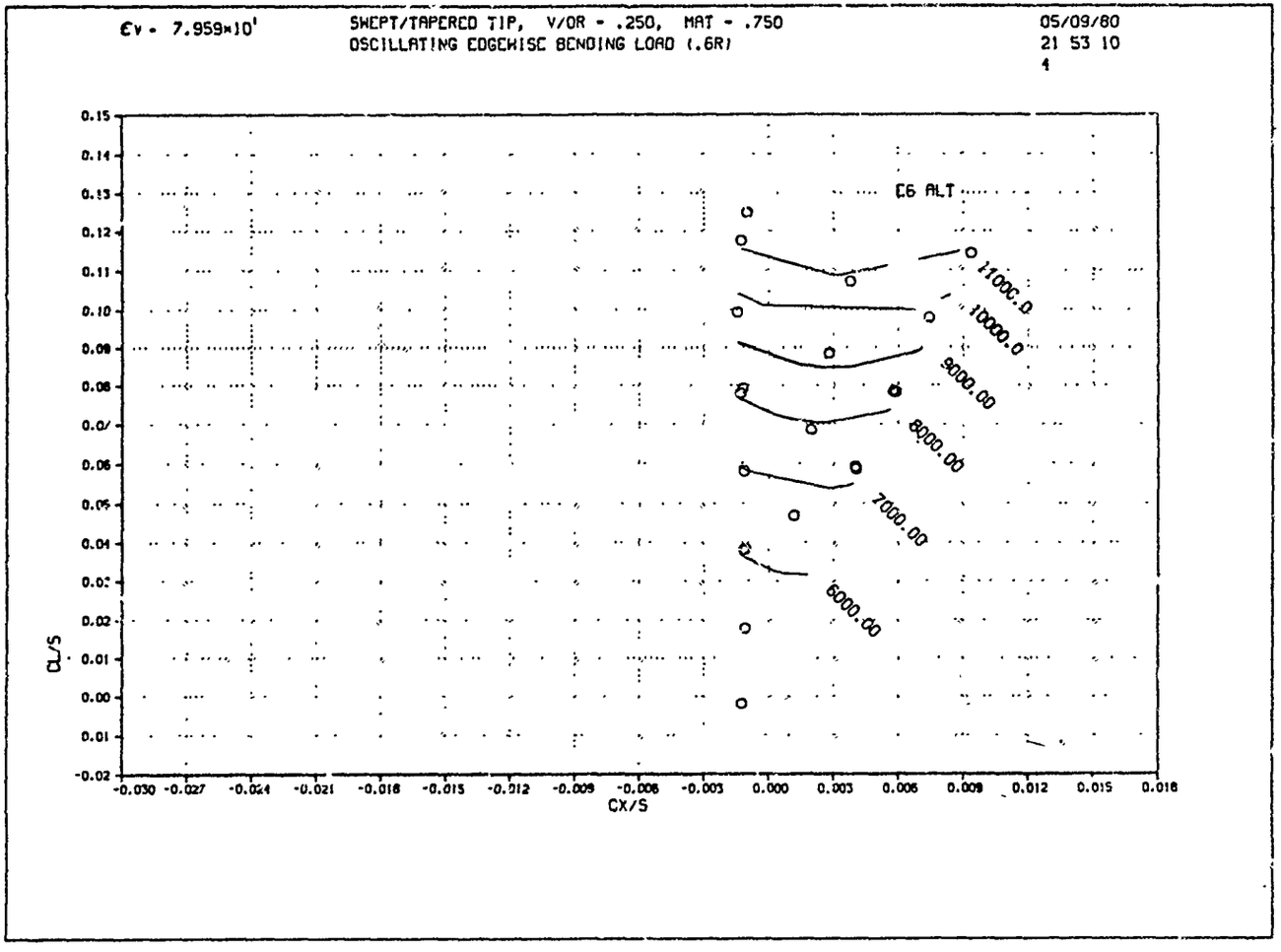

Ev - 1.947*10'
RECTANGULAR TIP, V/OR - .300, MAT - .780
OSCILLATING NORMAL BENDING LOAD (.7R)
05/09/80
02 17 26
2
4800.00
4500.00
4400.00
4200.00
4000.00
3800.00
3600.00
3500.00
3400.00
3300.00
3200.00
3100.00
CL/S
CX/S

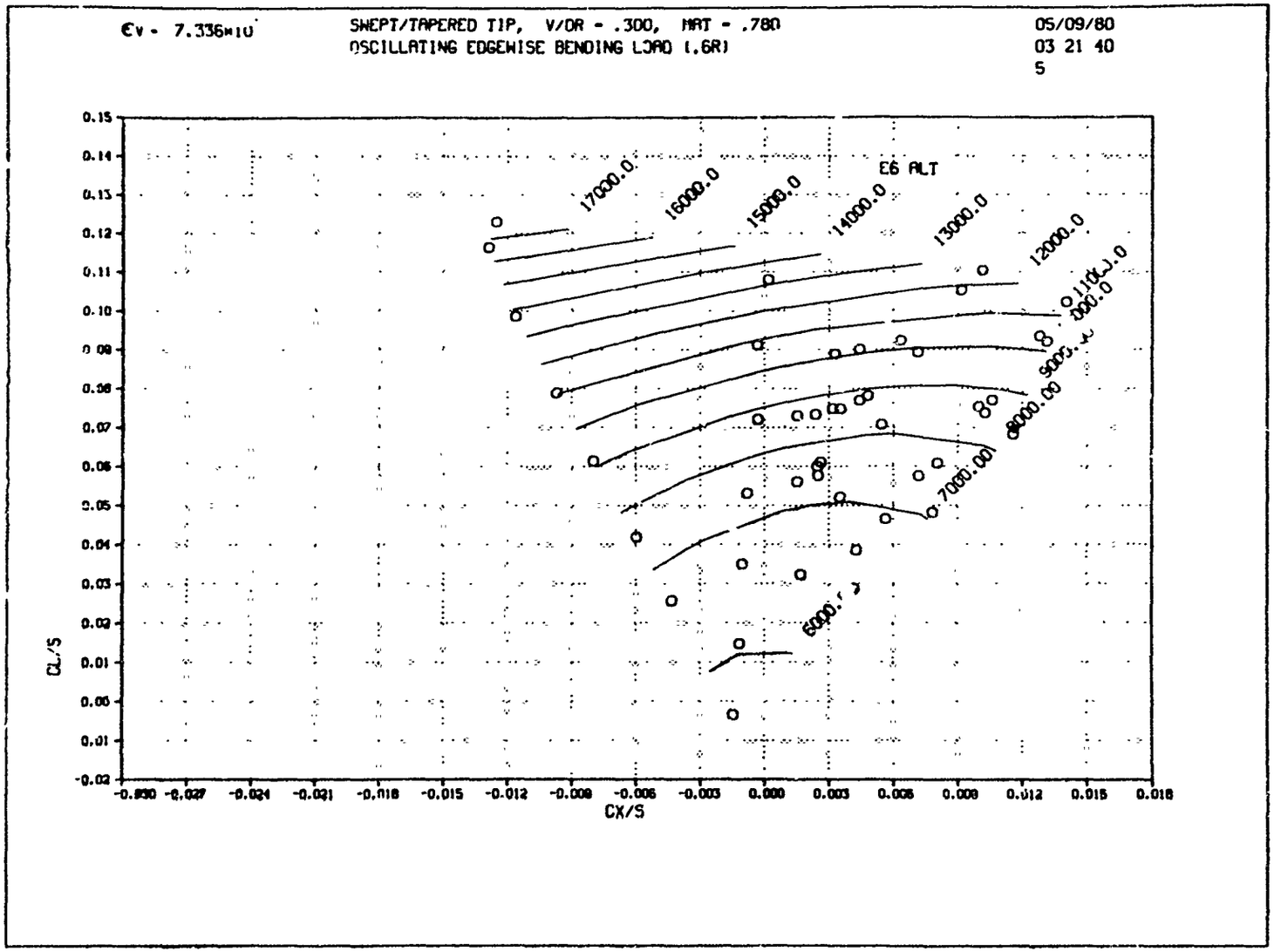

Ev - 6.836×10⁷
RECTANGULAR TIP, V/OR - .375, MAT - .825
OSCILLATING NORMAL BENDING LOAD (.7R)
05/13/80
01 06 33
3
CL/S
CX/S
6200.00
6000.00
5800.00
5600.00
5400.00
5200.00
5000.00
4800.00
6400.00
6600.00
7000.00
7200.00


Ev - 1.355×10²
SWEPT/TAPERED TIP, V/OR - .200, MAT - .660
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 48 35
2
8000.00
7000.00
6000.00
5000.00
4000.00
E6 ALT
CL/S
CX/S


Ev - 1.396×10²
SWEPT/TAPERED TIP, V/OR - .150, MAT - .685
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 45 05
1
E6 ALT
9000.00
8000.00
7000.00
6000.00
5000.00
CL/S
CX/S


Cv - 5.579*10'
SWEPT/TAPERED TIP, V/OR - .200, MAT - .720
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
03 18 44
3
EG ALT
10000.0
9000.00
8000.00
7000.00
6000.00
5000.00
CL/S
CX/S


Ev = 7.959×10'
SWEPT/TAPERED TIP, V/OR = .250, MAT = .750
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 53 10
4
E6 ALT
11000.0
10000.0
9000.00
8000.00
7000.00
6000.00
CL/S
CX/S
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
-0.01
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018


Ev - 7.336E+10
SWEPT/TAPERED TIP, V/OR - .300, MAT - .780
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
03 21 40
5
E6 ALT
17000.0
16000.0
15000.0
14000.0
13000.0
12000.0
11000.0
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9000.00
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0.10
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0.07
0.06
0.05
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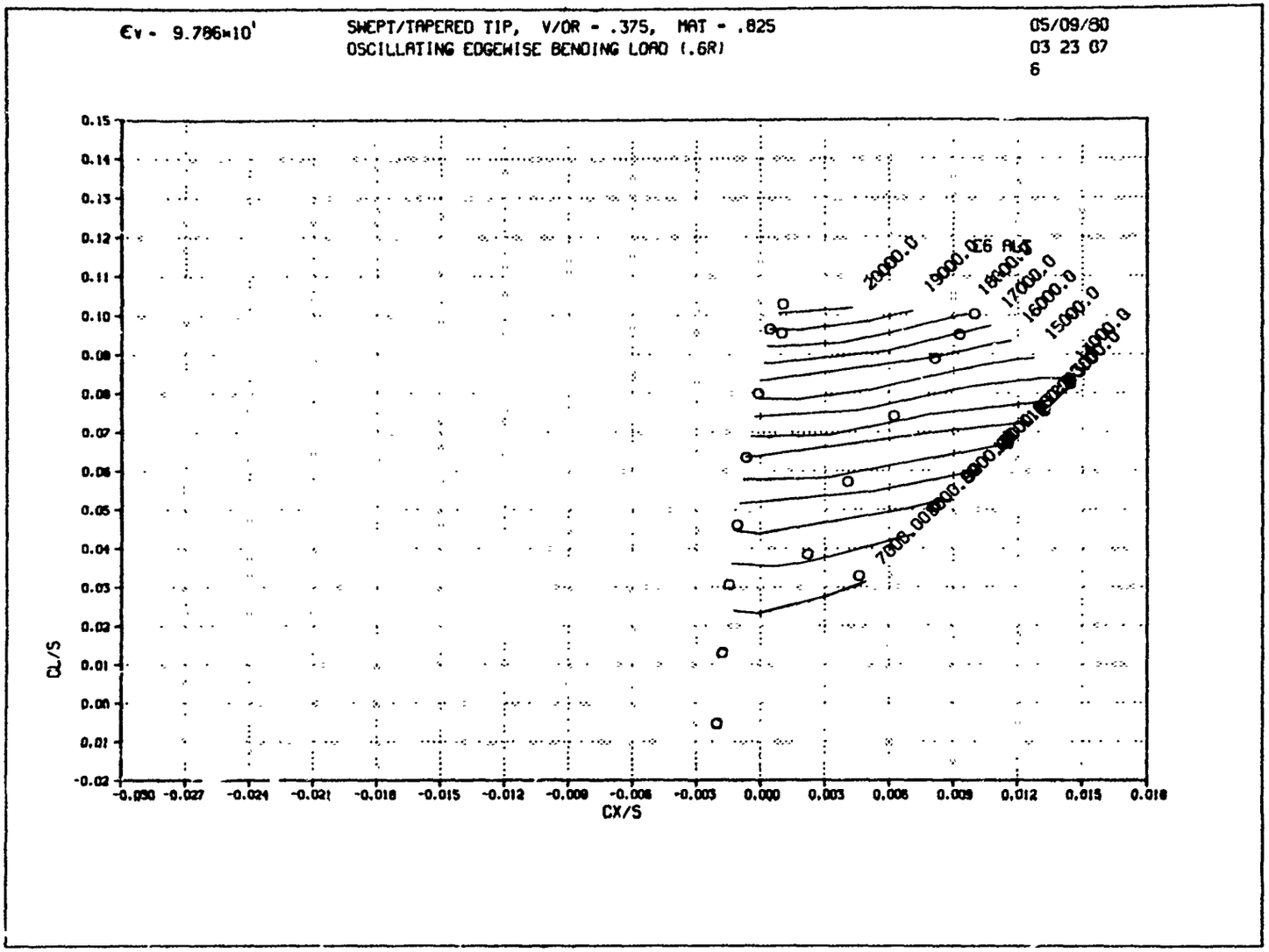
-0.01
-0.02
-0.030
-0.027
-0.024
-0.021
-0.018
-0.015
-0.012
-0.009
-0.006
-0.003
0.000
0.003
0.006
0.009
0.012
0.015
0.018


€v - 9.786×10⁴
SWEPT/TAPERED TIP, V/OR - .375, MAT - .825
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
03 23 07
6
20000.0
19000.0
16400.5
17000.0
16000.0
15000.0
CL/S
CX/S
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0.14
0.13
0.12
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0.10
0.09
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-0.02
-0.030
-0.027
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-0.021
-0.018
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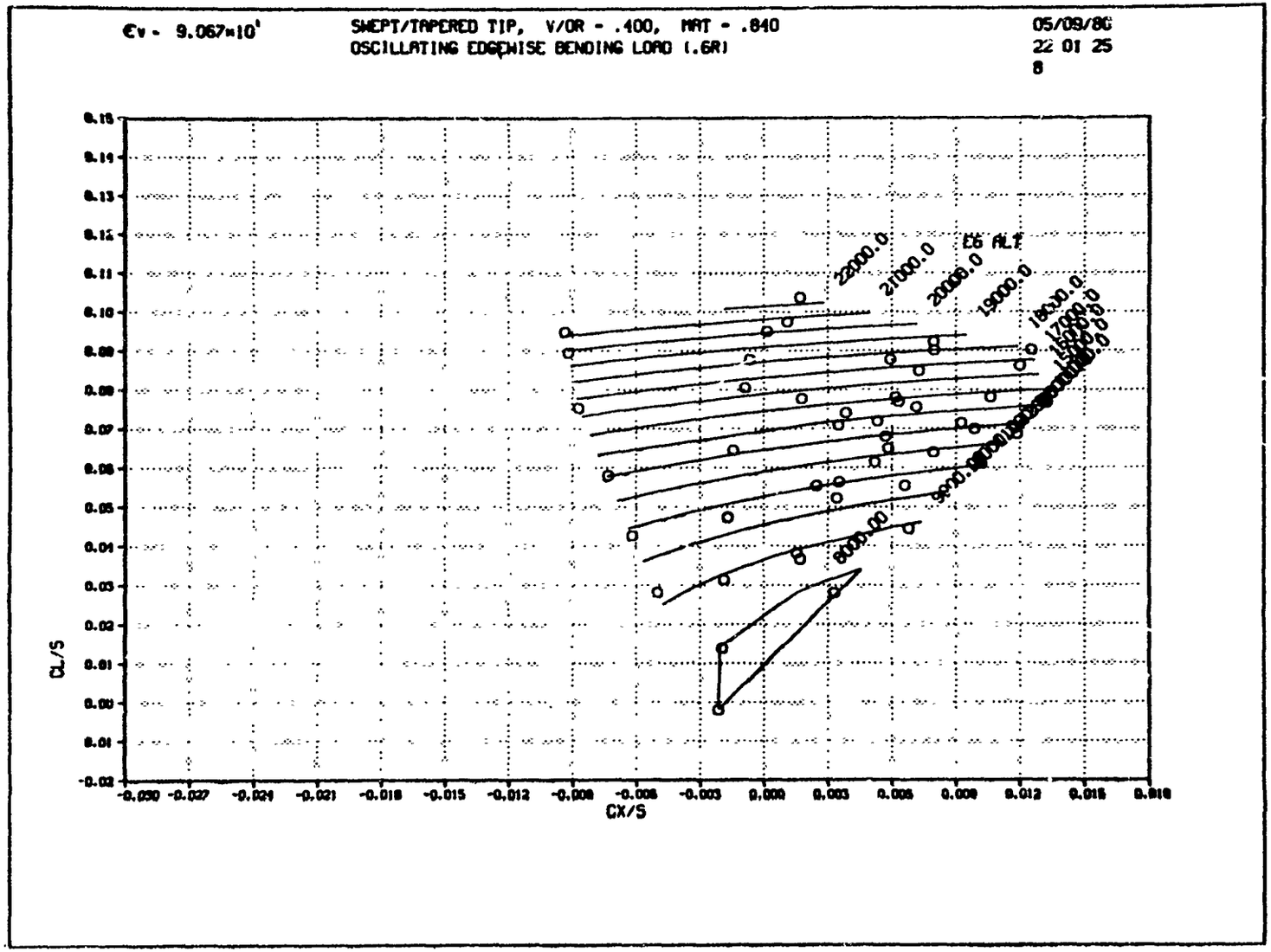
Ev - 9.067×10⁷
SWEPT/TAPERED TIP, V/OR - .400, MAT - .840
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/86
22 01 25
8
E6 ALT
22000.0
21000.0
20000.0
19000.0
18000.0
17000.0
16000.0
15000.0
9000.0
8000.0
CL/S
CX/S
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0.14
0.13
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0.11
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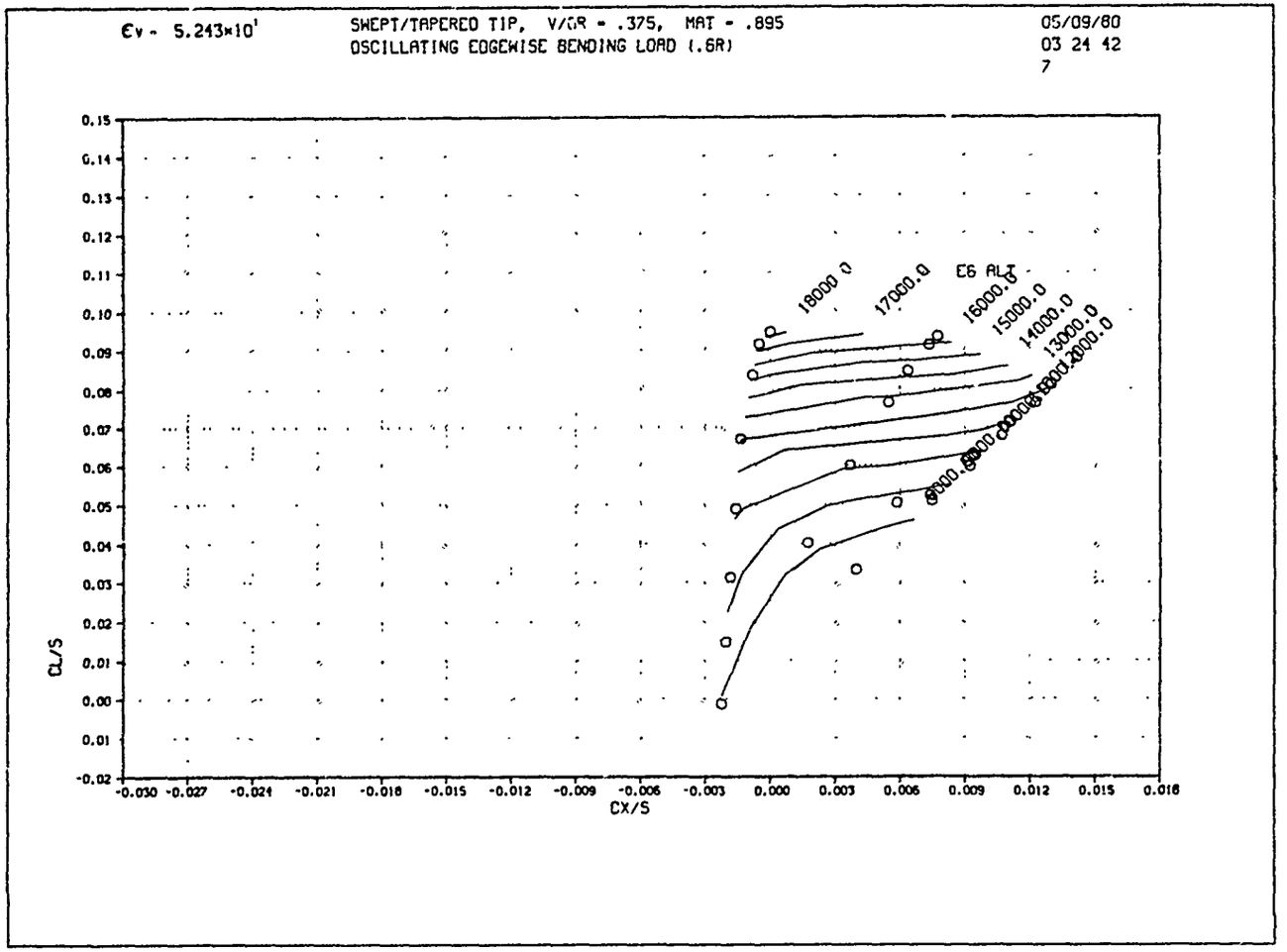
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018


Ev - 5.243×10¹
SWEPT/TAPERED TIP, V/CR = .375, MAT = .895
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
03 24 42
7
E6 ALT
18000.0
17000.0
16000.0
15000.0
14000.0
13000.0
12000.0
CL/S
CX/S
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0.14
0.13
0.12
0.11
0.10
0.09
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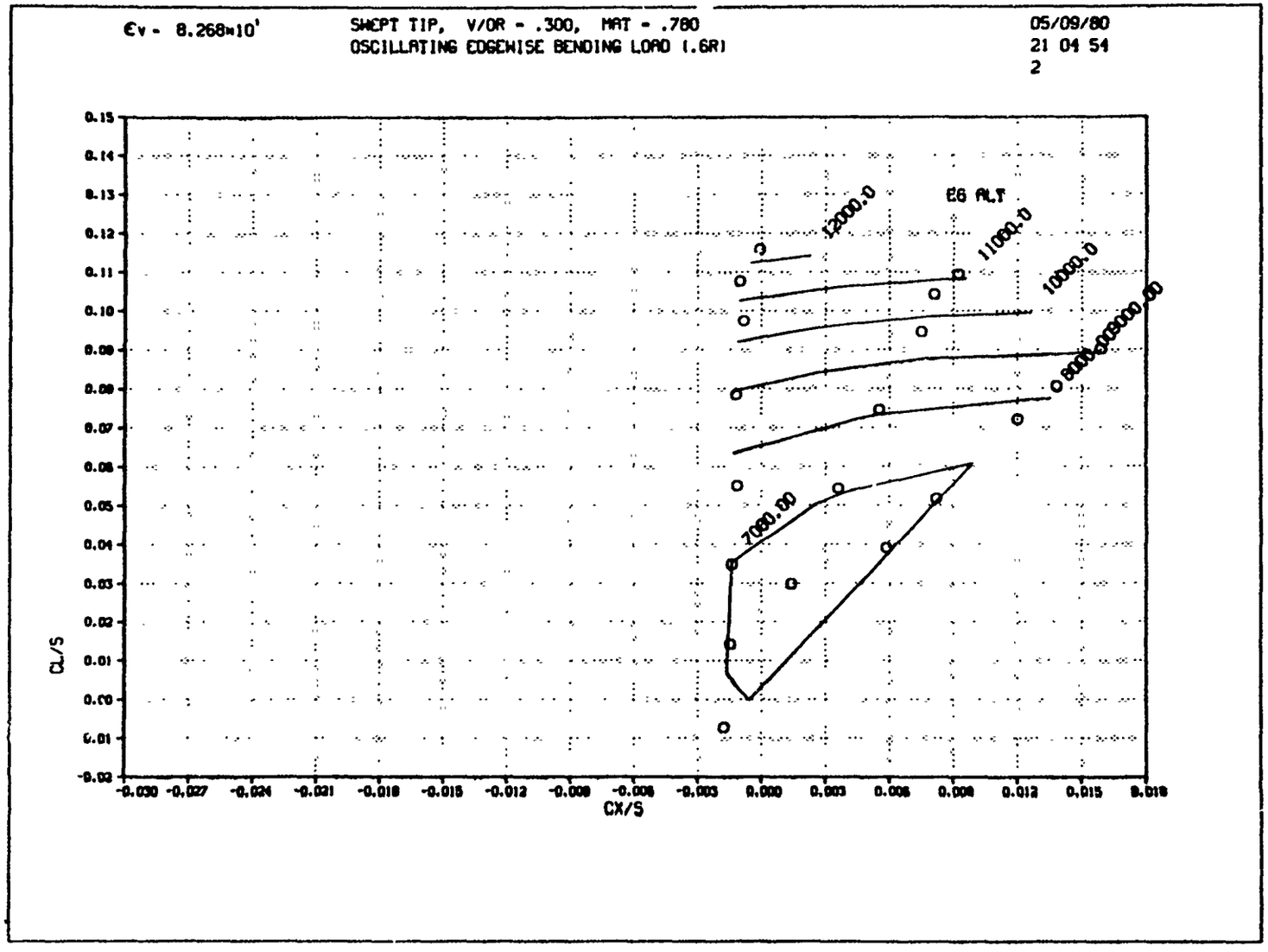
-0.02
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018


Ev - 8.268×10⁷
SWEPT TIP, V/OR - .300, MAT - .780
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 04 54
2
E6 ALT
12000.0
11000.0
10000.0
9000.00
8000.00
7000.00
CL/S
CX/S
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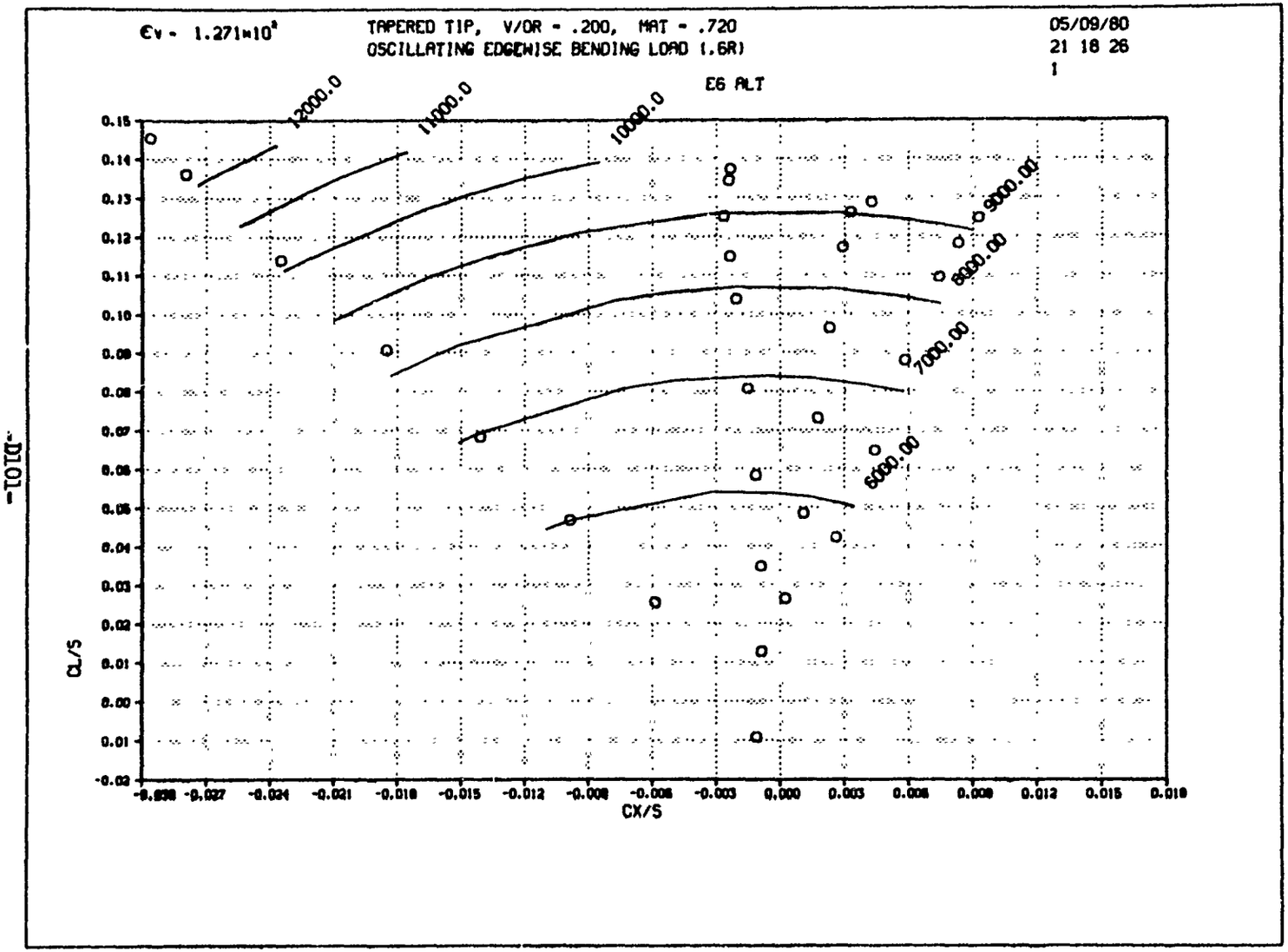
εv = 1.271×10⁴
TAPERED TIP, V/OR = .200, MAT = .720
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 18 26
1
E6 ALT
12000.0
11000.0
10000.0
9000.00
8000.00
7000.00
6000.00
8
-TOTAL-
CL/S
CX/S
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0.04
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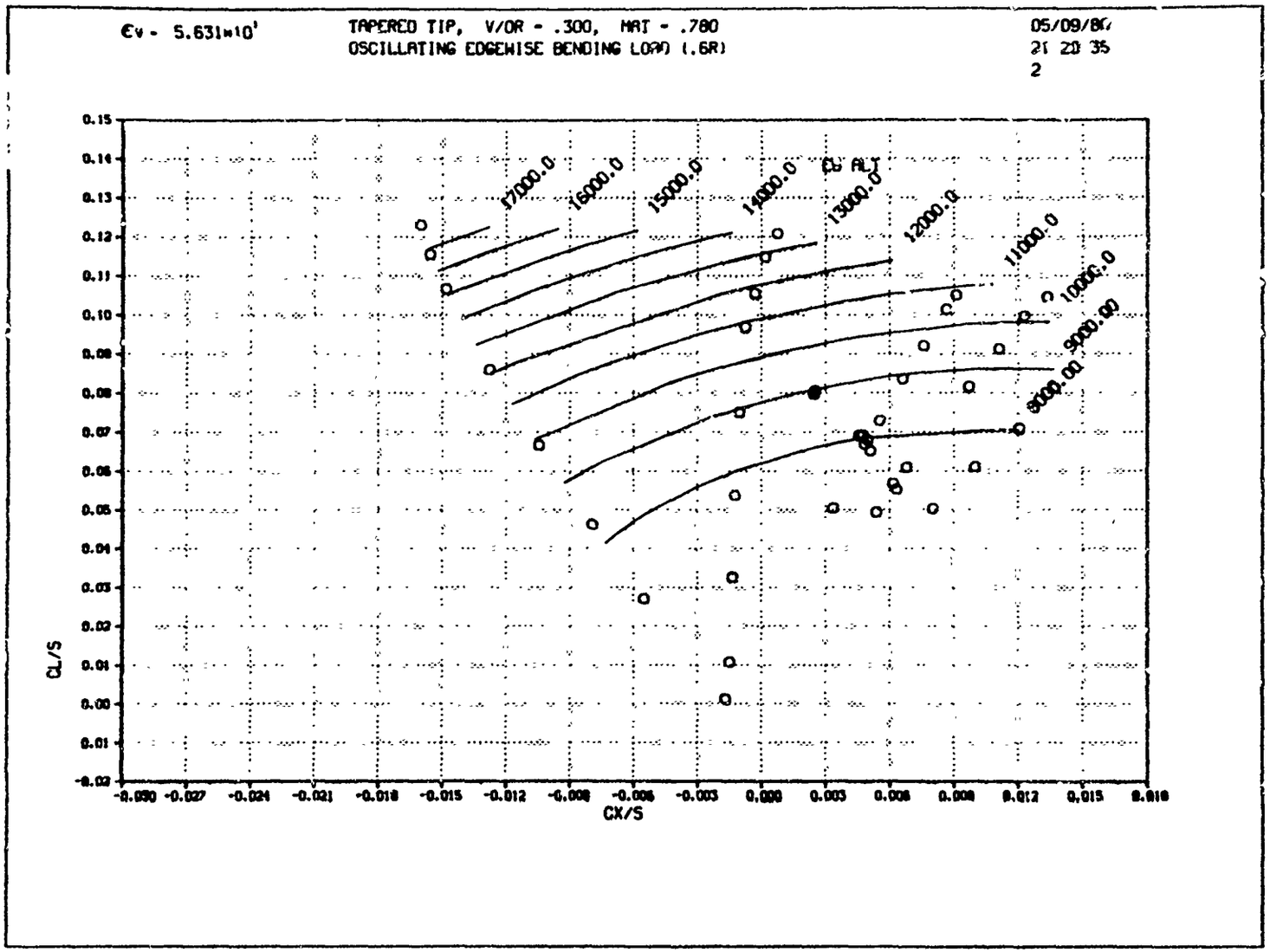
Cv - 5.631x10'
TAPERED TIP, V/OR - .300, MAT - .780
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/8(
21 20 35
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17000.0
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15000.0
14000.0
13000.0
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CL/S
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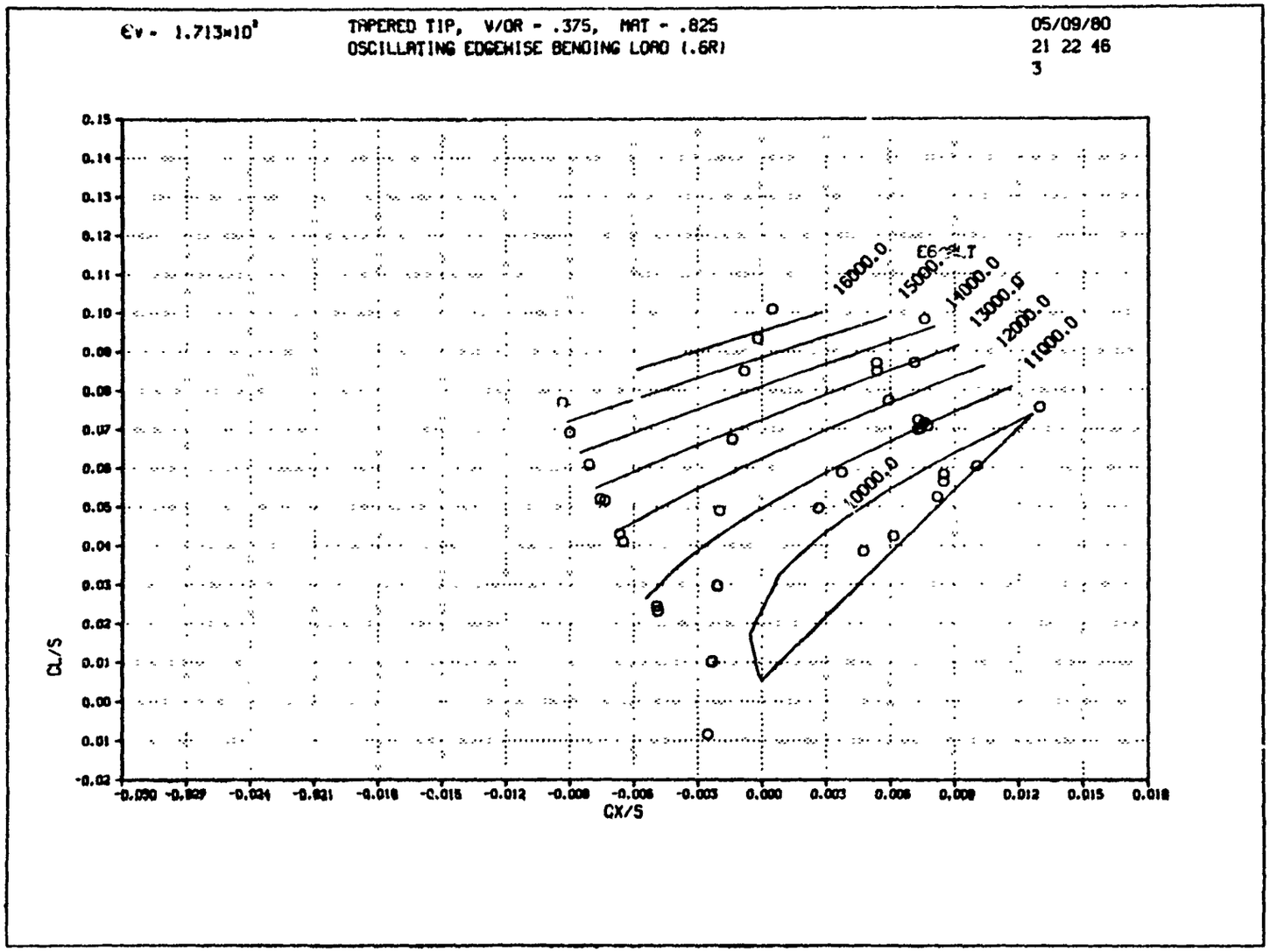
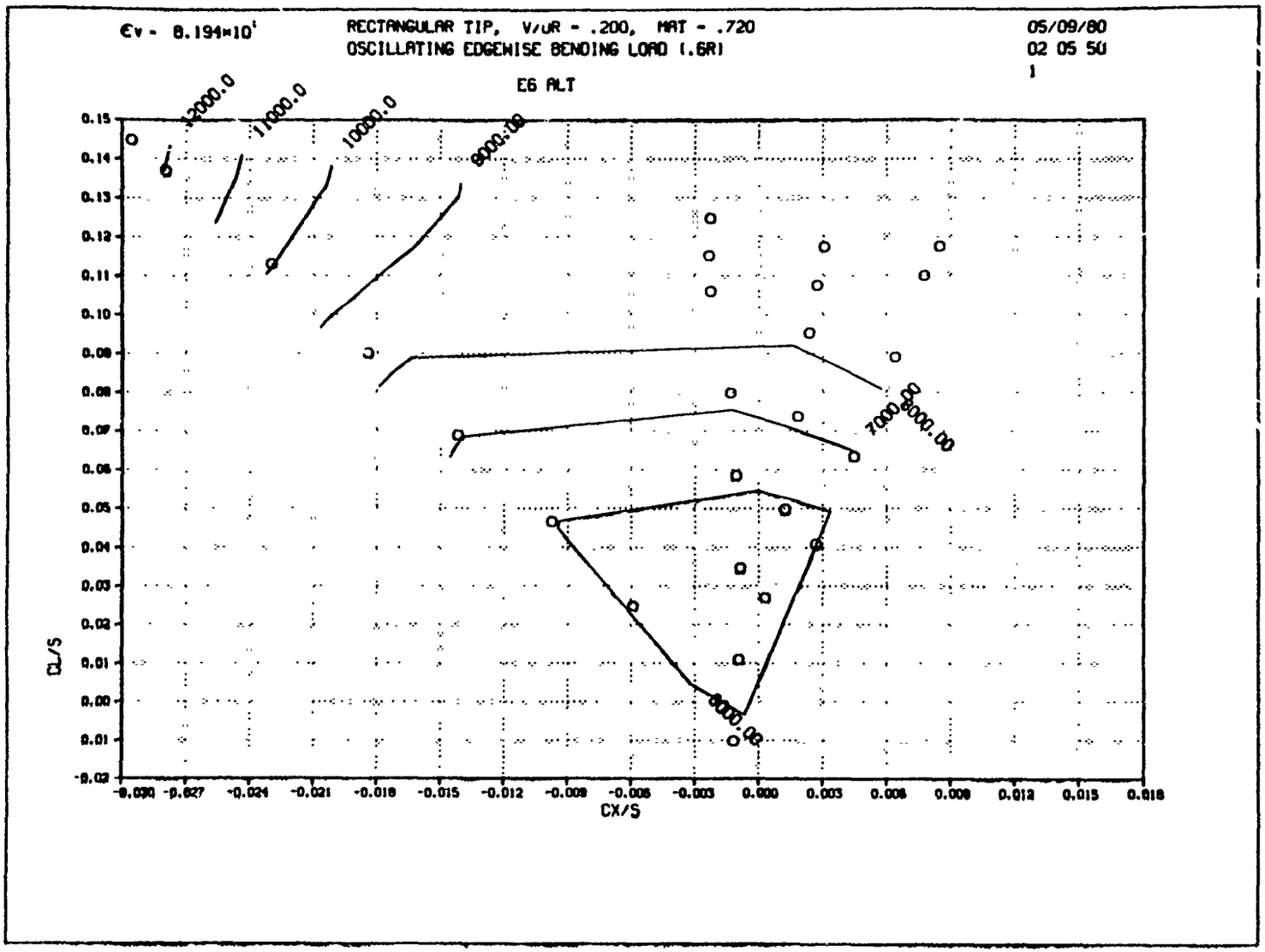

Ev = 1.713×10⁸
TAPERED TIP, W/OR = .375, MAT = .825
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
21 22 46
3
16000.0
15000.0
14000.0
13000.0
12000.0
11000.0
10000.0
CL/S
CX/S


Ev - 8.194*10^1
RECTANGULAR TIP, V/uR - .200, MAT - .720
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
02 05 50
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11000.0
10000.0
9000.00
8000.00
7000.00
6000.00
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CX/S
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0.01
0.00
-0.01
-0.02
-0.030
-0.027
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-0.021
-0.018
-0.015
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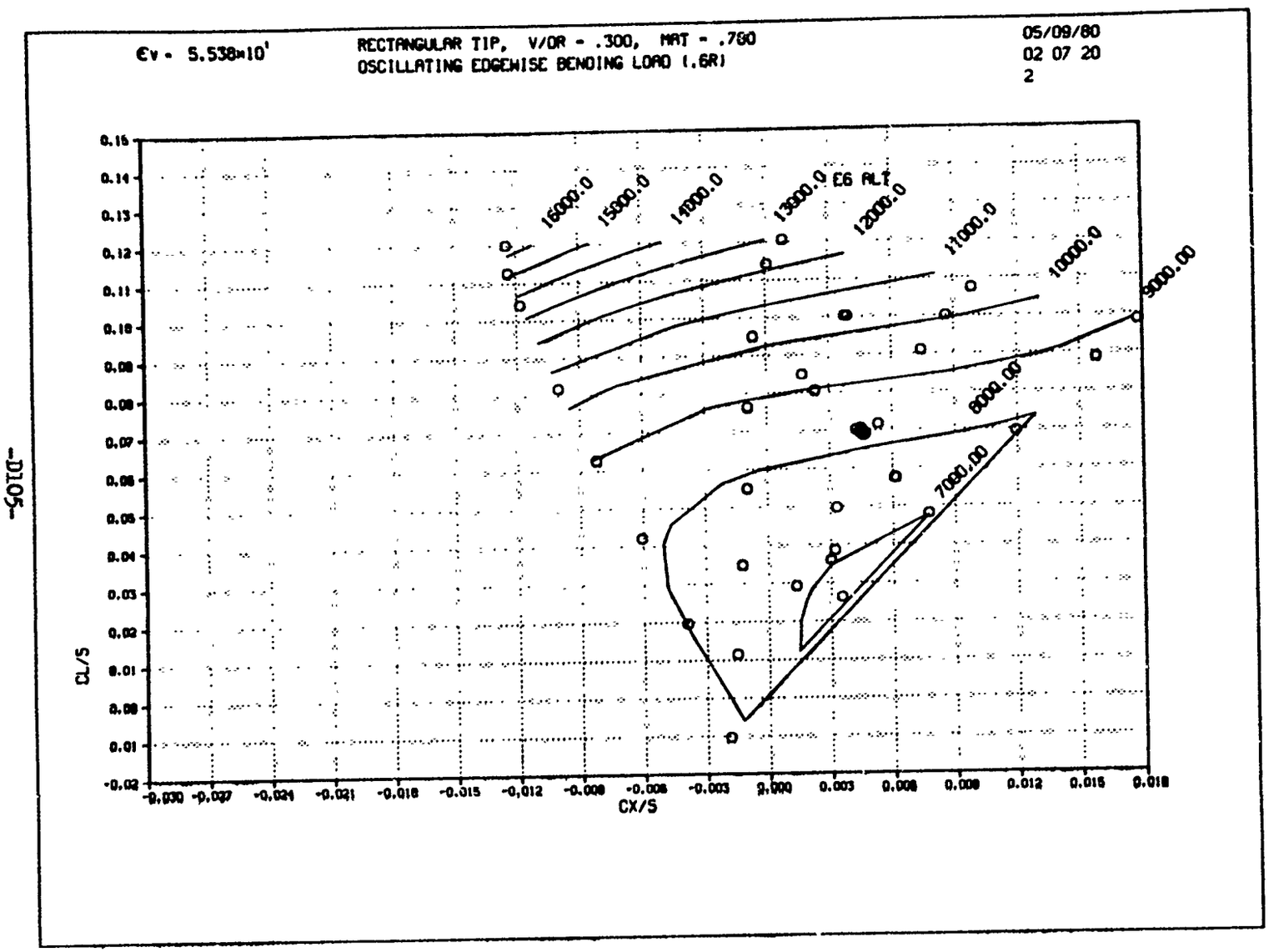
Ev = 5.538×10⁷
RECTANGULAR TIP, V/OR = .300, MAT = .780
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
02 07 20
2
16000.0
15000.0
14000.0
13000.0 E6 ALT
12000.0
11000.0
10000.0
9000.00
8000.00
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CL/S
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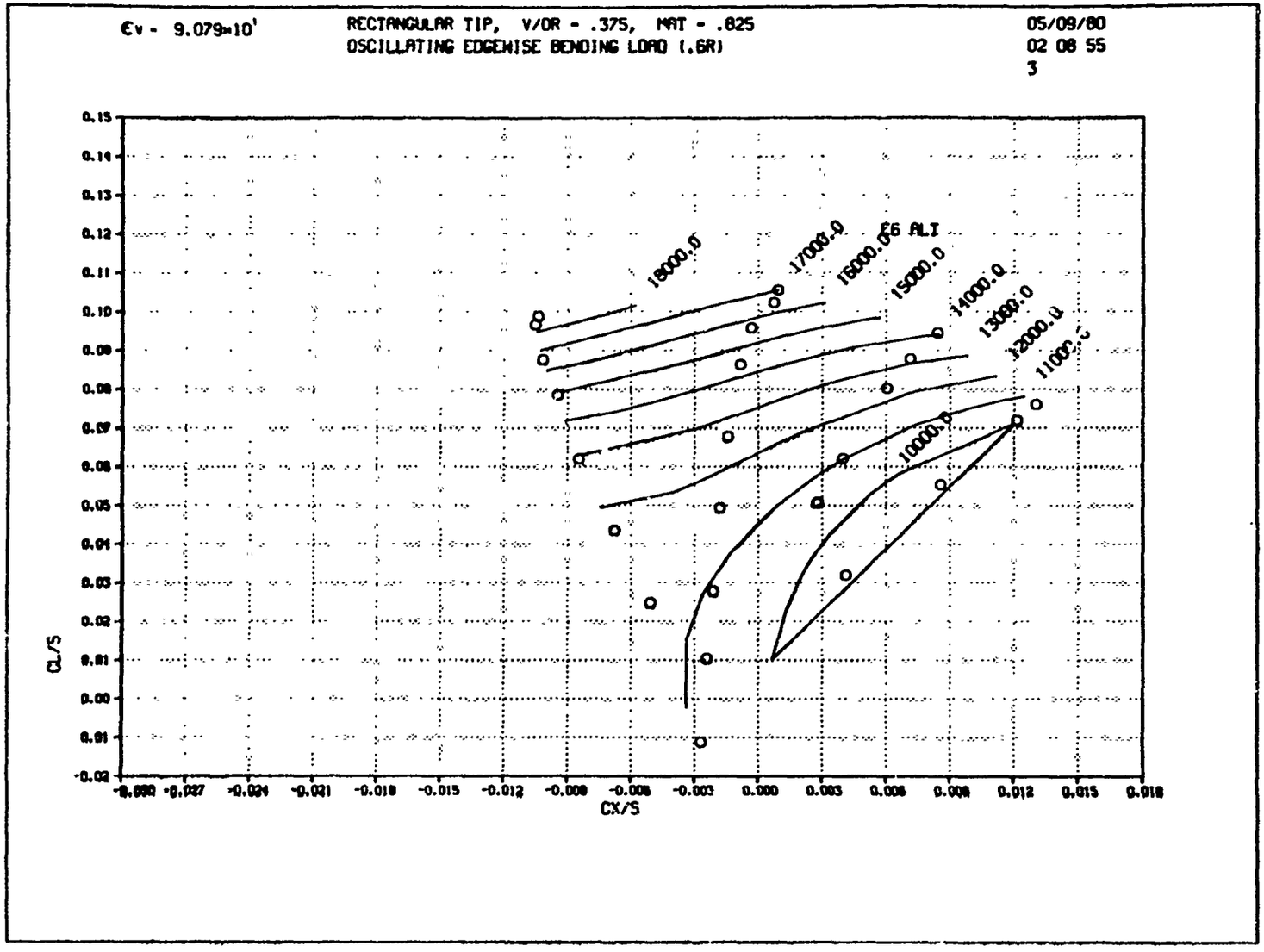
-0.030 -0.027 -0.024 -0.021 -0.018 -0.015 -0.012 -0.009 -0.006 -0.003 0.000 0.003 0.006 0.009 0.012 0.015 0.018


Ev - 9.079×10⁷
RECTANGULAR TIP, V/OR - .375, MAT - .825
OSCILLATING EDGEWISE BENDING LOAD (.6R)
05/09/80
02 08 55
3
16000.0
17000.0
15000.66 ALT
15000.0
14000.0
13000.0
12000.0
11000.0
10000.0
CL/S
CX/S

(12) T-438

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16 Abstract

A full-scale helicopter rotor was tested in the Ames 40- by 80-Foot Wind Tunnel to measure the performance, loads, and noise characteristics of rotors with various tip geometries. Four blade tip planforms were investigated: rectangular, tapered, swept, and swept/tapered. This report presents in tables and plots the performance and loads data obtained from that test.

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