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ASD-TR-69-15
PART II

PROPELLER STATIC PERFORMANCE TESTS FOR V/STOL AIRCRAFT

PART II. TEST DATA (APPENDIX III)

MATTHEW H. CHOPIN

TECHNICAL REPORT ASD-TR-69-15, PART II

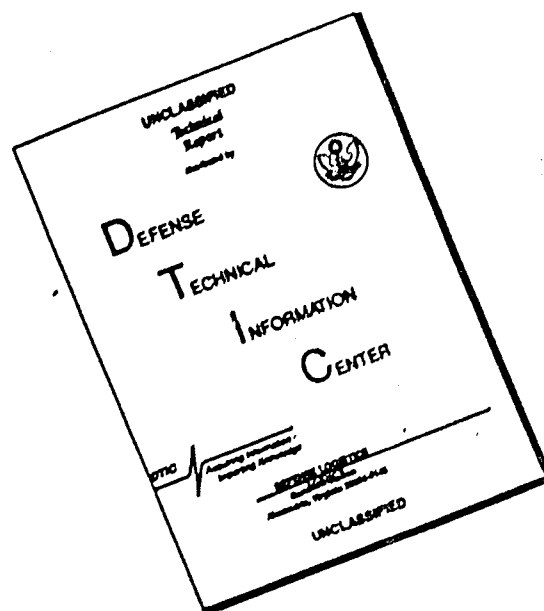
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PART II

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FOREWORD

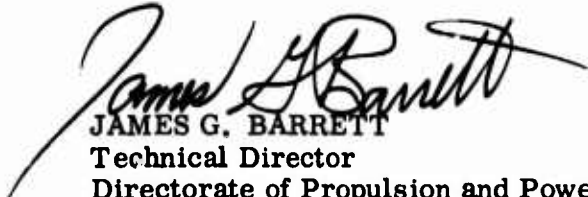
In-house technical support for the test program and report preparation was provided by members of the V/STOL Propulsion Branch, Directorate of Propulsion and Power Subsystems Engineering of the Deputy for Engineering, under System 478A. The test report was prepared by Mr. Matthew Chopin, and the data presentation was prepared by Mr. Gerald Cafarelli. Test facilities were under the direction of Mr. Harold Schuetz of the Propulsion Branch of the Air Force Aero Propulsion Laboratory. This report covers work accomplished from July 1965 to November 1967. This report was submitted by the author 17 July 1969.

For ease of handling and convenience for the reader, information on the test program is presented in two physical documents, ASD-TR-69-15, Part I, identified by the subtitle, "Summary," and ASD-TR-69-15, Part II. Test Data (APPENDIX III).

The author wishes to express appreciation to the following persons: Major Alan Gay of the Directorate of Computation Services, Deputy for Engineering, for developing the computer program used for data reduction; to Mr. Charles Mitchell of the Aerodynamics Branch, Directorate of Airframe Subsystems, Deputy for Engineering, for his consultation and review of the draft report; and to Dr. Henry Velkoff of The Ohio State University Mechanical Engineering Department for his consultation in support of this test program.

Contractor technical support was provided by the XC-142A airframe manufacturer, Ling-Temco Vought Inc., and propeller manufacturers, Hamilton Standard Division of United Aircraft Corporation, and Curtiss-Wright Corporation. Appreciation is also extended to Canadair Limited, Montreal, Quebec, for permission to include information and data on the CL-84 propeller.

This technical report has been reviewed and is approved.


JAMES G. BARRETT
Technical Director
Directorate of Propulsion and Power
Subsystems Engineering

ABSTRACT

Part II of this report, ASD-TR-69-15, presents the reduced data obtained during an extensive series of propeller static performance tests conducted on Electric Whirl Rig No. 4, located at Wright-Patterson Air Force Base, Ohio. The tests, conducted from July 1965 to November 1967, were run because of a static performance thrust deficiency encountered during flight tests of the XC-142A V/STOL Cargo Aircraft.

Thirteen different propellers were used; 28 different configurations were obtained by changing parameters of some of the 13 blades. The reduced data for the 28 versions of propellers tested are presented herein. Parameters studied during the tests included blade cuff (on or off), tip shape, twist, activity factor, camber, and airfoil section. Data on several other static thrust propellers tested on Rigs Nos. 1 and 4, which were not a part of this test series, are also presented for additional information.

Reduction of all data was performed in-house on the IBM-7094 Digital Computer located at Wright-Patterson Air Force Base, Ohio, using the general computer program described in ASD-TR-68-19, "Computer Program for Reducing Static Propeller Test Data."

The information obtained from the tests, in effect, represents a state-of-the-art study for improving propeller static performance for V/STOL aircraft applications. The information obtained during these tests can be used to more accurately predict static thrust for future propeller driven V/STOL aircraft.

TABLE OF CONTENTS

SECTION		PAGE
I	INTRODUCTION	1
II	DATA RUNS: RIG 4, PHASE I, PROTECTIVE WALLS UP (IN ORIGINAL POSITION)	7
III	DATA RUNS: RIG 4, PHASE II, PROTECTIVE WALLS DOWN	67
IV	DATA RUNS: RIG 4, PHASE III, PROTECTIVE WALLS RELOCATED	221
V	DATA RUNS: RIG 1, PROTECTIVE WALLS UP	339

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LIST OF SYMBOLS, DEFINITIONS, AND COEFFICIENTS

D	propeller diameter, feet
R	total blade radius, feet
r	radius along blade, feet
N	propeller speed RPM (revolutions/minute)
B	number of blades
b	blade width, feet
h	blade section maximum thickness, feet
AF	activity factor $= \frac{100,000}{16} \int_{0.2}^{1.0} \frac{b}{D} \left(\frac{r}{R}\right)^3 d\left(\frac{r}{R}\right)$ (The activity factor is a measure of a blade's capacity for power absorption)
TAF	total activity factor, (B X AF/blade)
C_{li}	blade section design lift coefficient (amount of camber of the blade section)
C_{Li}	integrated design lift coefficient $= 4 \int_{0.2}^{1.0} C_{li} \left(\frac{r}{R}\right)^3 d\left(\frac{r}{R}\right)$
β	blade angle at % R, degrees
J	advance ratio $= \frac{88 V_{mph}}{ND}$
V_{mph}	aircraft forward velocity or propeller inflow velocity=mph
$\frac{\pi ND}{60}$	rotational tip speed, feet/second or ft/sec
a	speed of sound, ft/sec $= 49.04 \sqrt{^{\circ}\text{Rankine}}$
$^{\circ}\text{Rankine}$	absolute temperature, 1.8 ($^{\circ}\text{C} + 273.16$)
M	tip Mach No. $= \frac{\pi ND}{60a}$
σ	density ratio, $\frac{\rho}{\rho_0}$

ASD-TR-69-15
PART II

LIST OF SYMBOLS, DEFINITIONS, AND COEFFICIENTS (CONTD)

ρ	local density, lb-sec ² /ft ⁴
ρ_0	sea level standard density, lb-sec ² /ft ⁴
Hp	corrected rig horsepower = $\frac{\text{test horsepower}}{\sigma}$
C_P	power coefficient = $\frac{0.5 \left(\frac{Hp}{1000} \right)}{\sigma \left(\frac{N}{1000} \right)^3 \left(\frac{D}{10} \right)^5}$
Th	corrected rig thrust, pounds = $\frac{\text{test thrust}}{\sigma}$
C_T	thrust coefficient = $\frac{0.1515 \left(\frac{Th}{1000} \right)}{\sigma \left(\frac{N}{1000} \right)^2 \left(\frac{D}{10} \right)^4}$
F.M.	figure of merit = $0.798 \frac{C_T^{(1.5)}}{C_P}$ (a measure of static efficiency)
η	propeller efficiency = $\frac{C_T}{C_P} J$ (forward flight)
$\Delta\beta$	blade twist = $(\beta_r = 0.25 - \beta_r = 1.0)$

SECTION I

INTRODUCTION

This Part II of ASD-TR-69-15 presents the reduced data obtained during an extensive series of propeller static performance whirl tests conducted on Electric Whirl Rig No. 4, located at Wright-Patterson Air Force Base, Ohio. Limited data on selected propellers, obtained on Rig No. 1, is also presented.

The purpose of the testing was to obtain empirical data necessary to provide improved propeller static performance for the XC-142A V/STOL cargo transport. These tests and findings, along with complete blade characteristic sheets for each test blade configuration, are described in detail in ASD-TR-69-15; Propeller Static Performance Tests for V/STOL Aircraft, Part I; Summary.

The tests consisted basically of static whirl tests of various propeller configurations and the measurement and recording of pertinent performance data. The data were reduced using the general computer program described in ASD-TR-69-19, "Computer Program for Reducing Static Propeller Test Data." Reduction of all data was performed in-house on the IBM-7094 Digital Computer.

The program accepts static whirl rig test data (i. e. , test rpm and corrected horsepower and thrust data) at any given blade angle (β). The computer rapidly reduces the test data to pertinent propeller relationships such as power coefficient (C_P); thrust coefficient (C_T) ; C_T/C_P ; figure of merit (F. M.); thrust/horsepower (Th/Hp); and computes the corresponding propeller tip Mach number (M_{TIP}).

The computer then fits a running second degree polynomial, using the method of least squares, through six consecutive test data points (thrust or horsepower) that are equally distributed on either side of the desired smoothed (selected Mach number increment) data value. The routine then proceeds until smoothed horsepower and thrust curves are created for the entire array of evenly incremented Mach number values. Intermediate horsepower and thrust values are determined from the fitted curves at the selected Mach number increments and all coefficients are recomputed using these derived intermediate values. The reduced data are then presented in two forms: (1) coefficients computed from the actual test (or raw) data and (2) coefficients obtained from the fitted curves at specific constant tip Mach number increments.

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A tip Mach number increment of 0.025 from $M = 0.525$ to $M = 1.0$ (or the last data point) was used. No extrapolation of the data beyond actual test points was performed although data extrapolation is permitted in the program. It should be emphasized that the procedure used is essentially one of creating equal tabular entries through a smoothing rather than an interpolative procedure.

It should be noted that the raw test data (HP and TH) presented for the following reduced data had been corrected to standard day conditions at the time the data was recorded. No corrections to standard day conditions are necessary or performed by the computer program. The value of "SIGMA" is provided for reference purposes only.

The ranges of rpm and blade angle (β) used during the tests were determined by test objectives or by limitations of test hardware or test equipment.

The data presented is organized in the following four basic sections:

- a. Rig 4, Phase I, Protective Walls Up
- b. Rig 4, Phase II, Protective Walls Down
- c. Rig 4, Phase III, Protective Walls Relocated
- d. Rig 1, Protective Walls Up

It should be pointed out that the data runs are arranged in increasing order of the tested blade angle Beta (β). Therefore, the sequence of run numbers (which are generally in increasing order) are not used in organizing the data except where more than one run was made at any given blade angle (β).

ASD-TR-69-15
APRT II

Data is presented for the following propeller configurations tested as indicated below:

PROPELLER

2FE16A3-4A

2FE16A3-4A (Tabs)

2J17G3-26R

156109A2P3

2FF16A1-4A (30,000 ft-lb shaft)

2FF16A1-4A (15,000 ft-lb shaft)

SK59868-0

SK59868-OR

SK59868-12

SK59868-12R

SK59868-18

SK59868-18R

6903A-0 (34E60 Hub)

6903A-0T (34E60 Hub)

6903A-0 (43E60 Hub)

1498A2P3

47 x 75

47 x 91

47 x 92

47 x 93

47 x 94

47 x 95

47 x 96

47 x 97

47 x 121

47 x 138

X65 SEJDR

12166A10P3

Calibrator

Rig 4			Rig I
Phase I Walls Up	Phase II Walls Down	Phase III Walls Relocated	Walls Up
X	X		
	X		
X	X		
X			
	X	X	
	X		
X	X		
	X		
	X		
	X		
	X		
	X		
	X		
	X		
	X		
		X	
		X	
		X	
		X	
		X	
		X	
		X	
		X	
		X	
			X
			X
X	X	X	X

LIST OF PROPELLER CONFIGURATIONS TESTED

Test Categories	Diameter (feet)	Number Blades	Activity Factor	Integrated Lift Coeff C _{Li}	NACA Airfoil Section	Twist 25% R- Tip	Blade Construction Details	Comments
<u>Rig #4 - Phase I, Walls Up</u>								
Calibrator (Curtiss 836-14C2-18R1) (15,000 ft-lb shaft)	13.0	4	98	0.50		32.0°	Hollow Steel	Standard Rig Calibrator
2FE16A3-4A	15.625	4	86	0.475	16,64	29.0°	Fiberglass*	Original XC-142A Prop
2J17G3-26R	14.88	4	122	0.459	16,64	35.2°	Steel Core - Shell	C-119 Production Prop
SK59868-0	16.643	4	98	0.407	16,64	35.0°	Fiberglass*	Basic SK59868-0 Blade
156109A2P3	15.50	4	109	0.482		37.0°	Fiberglass	Designed for XC-142A
<u>Rig #4 - Phase II, Walls Down</u>								
Calibrator (15,000 ft-lb shaft)	13.0	4	98	0.50		32.0°	Hollow Steel	Standard Rig Calibrator
2FE16A1-4A	15.625	4	86	0.475	16,64	29.0°	Fiberglass*	Original XC-142A Prop
2FE16A3-4A (with tabs)	15.625	4	86	0.475+	16,64	29.0°	Fiberglass*	(See Note Below)
2FF16A1-4A	15.625	4	105	0.500	16,64	35.5°	Fiberglass*	Redesigned XC-142A Prop
47 x 75	16.643	4	98	0.407	16,64	28.4°	Fiberglass*	Twisted SK59868-0
SK59868-0	16.643	4	98	0.407	16,64	35.0°	Fiberglass*	Basic SK59868-0 Blade
SK59868-0R	16.643	4	89	0.407	16,64	35.0°	Fiberglass*	Round Tip SK59868-0
SK59868-12.22	15.625	4	109	0.476	16,64	30.0°	Fiberglass*	Cut Down SK59868-0
SK59858-12.22R	15.625	4	99	0.476	16,64	30.0°	Fiberglass*	Round Tip SK59868-12.22
SK59868-1722	15.208	4	115	0.497	16,64	28.3°	Fiberglass*	Cut Down SK59868-12.22
SK59868-17.22R	15.208	4	105	0.497	16,64	28.3°	Fiberglass*	Round Tip SK59868-17.22
6903A-0 in 43E60 hub (3-way)	15.2	3	99	0.500	16	33.7°	Solid Dural	Lockheed Constallation (C-121) Production Prop
6903A-0 in 34E60 hub (4-way)	15.2	4	99	0.500	16	33.7°	Solid Dural	C-121 Blades in 4-Way Hub
6903A-0T in 34E60 hub	15.2	4	99	0.500	16	38.5°	Solid Dural	Twisted 6903A Blade
2J17G3-26R	14.88	4	122	0.459	16,64	35.2°	Steel Core - Shell	C-119 Production Prop
1490A2P3	14.0	4	90	0.498	65	39.0°	Fiberglass**	CL-84 Propeller
Calibrator (30,000 ft-lb shaft)	13.0	4	98	0.50		32.0°	Hollow Steel	Calibrators for Increased Capacity
2FF16A1-4A (30,000 ft-lb shaft)	15.625	4	105	0.500	16,64	35.5°	Fiberglass*	Torque Shaft

LIST OF PROPELLER CONFIGURATIONS TESTED (CONT)

Test Categories	Diameter (feet)	Number Blades	Activity Factor	Integrated Lift Coeff. C _{Li}	NACA Airfoil Section	Twist 25% R-Tip	Blade Construction Details	Comments
<u>Rig #4 - Phase III, Walls Relocated</u>								
Calibrator (30,000 ft-lb shaft)	13.0	4	98	0.50		32.0°	Hollow Steel	Standard Rig Calibrator
2FF16A1-4A	15.625	4	105	0.500	16,64	35.5°	Fiberglass*	Redesigned XC-142A Prop
2FF16A1-4A (Locked at 10.5°)	15.625	4	105	0.500	16,64	33.5°	Fiberglass*	Used as Calibrator Prop
47 x 91	13.0	4	105	0.500	16,64	35.5°	Solid Dural	0.832-Scale 2FF
47 x 92	13.0	4	103	0.500	16	35.5°	Solid Dural	47 x 91 Without Cuff
47 x 93	13.0	4	117	0.500	16,64	35.5°	Solid Dural	117 Activity Factor 2FF
47 x 94	13.0	4	115	0.500	16	35.5°	Solid Dural	47 x 93 Without Cuff
47 x 95	13.0	4	105	0.500	16,64	38.5°	Solid Dural	Twisted 47 x 91 Scale 2FF
47 x 96	13.0	4	103	0.500	16	38.5°	Solid Dural	47 x 95 Without Cuff
47 x 97	13.0	4	115	0.558	16	35.5°	Solid Dural	Recambered 47 x 94
47 x 121	13.0	4	117	0.500	65	35.5°	Solid Dural w/Fiber- glass	47 x 93 with NACA Series 65 Section for full radius
47 x 138	13.0	4	103	0.500	16	30.3°	Solid Dural	Retwisted 47 x 92
<u>Rig #1 - Walls Up</u>								
Calibrator	13.0	4	98	0.50		32.0°	Hollow Steel	Standard Rig Calibrator
X65-SEJDR	12.8	4	106	Approx 0.300	Modi- fied Series 65 w/o Cusp	46.5°	Solid Dural	Experimental Prop
13166A10P3	13.0	3	166	0.55	64	33.5°	Fiberglass**	X-19 Propeller

*Fiberglass shell over steel core, foam fille.

**Fiberglass monocoque with steel shank.

NOTE: 2FE with Balsa Wedge on Face Side T.E. (78 in. Sta - 12.5°, 1.54 in width; to Tip - 12.0°, 0.815 in width)

EXPLANATION OF PRINTOUT FORMAT

The following is an explanation of the terms appearing on the computer printout.

Line 1

Computer Card Deck Title

Line 2

Propeller Identification, Blade, Date, Run Number, Wall Location, Miscellaneous Information.

Line 3

BETA - Test blade angle at 75% R (reference only)
AF - Blade activity factor (reference only)
DIA - Propeller diameter in feet
NBL - Number of blades in hub (reference only)
TEMPC - Ambient temperature in degrees Centigrade
TEMPR - Absolute ambient temperature in degrees Rankine
SIGMA - Density ratio (reference only)

RAW DATA POINTS * * * * *

RPM - Propeller rpm
HP - Corrected horsepower
TH - Corrected thrust
TMACH - Propeller tip Mach number
RCT - Raw thrust coefficient
RCP - Raw power coefficient
RCT/CP - Ratio of raw thrust coefficient to power coefficient
RFM - Raw figure of merit
RTH/HP - Ratio of raw thrust to horsepower

FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS * * * * *

MACH - Selected Mach number increment
HP - Horsepower at Mach increment
TH - Thrust at Mach increment
TIPS - Propeller tip speed in ft/sec corresponding to Mach increment
RPM - Propeller rpm at Mach increment
CT - Thrust coefficient at Mach increment
CP - Power coefficient at Mach increment
CT/CP - Ratio of thrust coefficient to power coefficient at Mach increment
FM - Figure of merit at Mach increment
TH/HP - Ratio of thrust to horsepower at Mach increment

ASD-TR-69-15
PART II

SECTION II

DATA RUNS: RIG 4, PHASE I,
PROTECTIVE WALLS UP
(IN ORIGINAL POSITION)

CONFIGURATION	PAGE
2FE16A3-4A	8
2J17G3-26R	19
156109A2P3	33
SK59868-0	40
CALIBRATOR	51

STATIC PRO.P PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 41 WAILS UP

BETA= 0. AF= 86.0 CIA=15.625 MBL=4 TEMPC= 23.5 TEMPR= 533.99 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
729.	77.	716.	0.526	0.0343	0.0107	3.2157	0.4753	9.2987
867.	138.	940.	0.626	0.0318	0.0114	2.8015	0.3990	6.8116
918.	158.	1055.	0.663	0.0319	0.0110	2.9078	0.4143	6.6772
977.	189.	1170.	0.705	0.0312	0.0109	2.8691	0.4045	6.1905
1022.	221.	1275.	0.738	0.0311	0.0111	2.7970	0.3935	5.7692
1104.	283.	1421.	0.797	0.0297	0.0113	2.6297	0.3616	5.0212
1134.	308.	1494.	0.819	0.0296	0.0113	2.6094	0.3582	4.8506
1162.	333.	1555.	0.839	0.0293	0.0114	2.5740	0.3518	4.6697
1193.	360.	1587.	0.861	0.0284	0.0114	2.4948	0.3355	4.4083
1218.	392.	1650.	0.879	0.0283	0.0116	2.4320	0.3266	4.2092
1251.	427.	1712.	0.903	0.0279	0.0117	2.3793	0.3169	4.0094
1284.	469.	1775.	0.927	0.0274	0.0119	2.3052	0.3046	3.7846
1315.	510.	1837.	0.949	0.0271	0.0120	2.2469	0.2949	3.6020
1343.	564.	1879.	0.970	0.0265	0.0125	2.1225	0.2759	3.3316
1375.	659.	1900.	0.993	0.0256	0.0136	1.8806	0.2401	2.8832
1405.	734.	1920.	1.014	0.0248	0.0142	1.7434	0.2190	2.6158
1432.	833.	1962.	1.034	0.0244	0.0152	1.6000	0.1993	2.3553
1473.	978.	1983.	1.063	0.0233	0.0164	1.4168	0.1725	2.0276

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	207.	1232.	822.	1004.	0.0311	0.0110	2.829	0.398	5.938		0	
0.750	232.	1299.	850.	1039.	0.0306	0.0111	2.759	0.385	5.598		0	
0.775	258.	1369.	878.	1073.	0.0303	0.0112	2.703	0.375	5.309		0	
0.800	287.	1442.	907.	1108.	0.0299	0.0113	2.644	0.365	5.030		0	
0.825	315.	1505.	935.	1143.	0.0294	0.0113	2.588	0.354	4.774		0	
0.850	347.	1573.	963.	1177.	0.0289	0.0114	2.531	0.343	4.532		0	
0.875	383.	1635.	992.	1212.	0.0283	0.0115	2.455	0.330	4.271		0	
0.900	422.	1699.	1020.	1247.	0.0278	0.0117	2.379	0.317	4.023		0	
0.925	465.	1773.	1048.	1281.	0.0275	0.0119	2.315	0.306	3.809		0	
0.950	515.	1837.	1077.	1316.	0.0270	0.0121	2.227	0.292	3.567		0	
0.975	586.	1878.	1105.	1351.	0.0262	0.0128	2.053	0.265	3.205		0	
1.000	681.	1912.	1133.	1385.	0.0254	0.0138	1.845	0.235	2.808		0	

STATIC PRCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 24 WALLS UP

BETA= 2.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
734.	37.	992.	0.529	0.0469	0.0050	9.3353	1.6132	26.8108
853.	131.	1266.	0.615	0.0443	0.0113	3.9105	0.6569	9.6641
982.	232.	1666.	0.708	0.0440	0.0132	3.3452	0.5599	7.1810
1100.	364.	2070.	0.793	0.0436	0.0147	2.9675	0.4943	5.6868
1129.	396.	2195.	0.814	0.0439	0.0148	2.9686	0.4961	5.5429
1162.	439.	2258.	0.838	0.0426	0.0150	2.8352	0.4669	5.1435
1196.	495.	2425.	0.863	0.0432	0.0155	2.7795	0.4609	4.8990
1225.	531.	2510.	0.884	0.0426	0.0155	2.7469	0.4524	4.7269
1252.	562.	2532.	0.903	0.0411	0.0154	2.6758	0.4331	4.5053
1285.	624.	2700.	0.927	0.0416	0.0158	2.6376	0.4295	4.3269
1313.	669.	2785.	0.947	0.0411	0.0159	2.5929	0.4197	4.1629
1350.	762.	2891.	0.974	0.0404	0.0166	2.4297	0.3897	3.7940
1375.	802.	2849.	0.992	0.0384	0.0166	2.3171	0.3622	3.5524
1409.	909.	3019.	1.016	0.0387	0.0174	2.2199	0.3486	3.3212
1437.	1031.	3189.	1.037	0.0393	0.0187	2.1085	0.3337	3.0931
1469.	1127.	3166.	1.060	0.0374	0.0191	1.9576	0.3020	2.8092

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

PACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	261.	1738.	822.	1005.	0.0438	0.0138	3.176	0.531	6.662		0	
0.750	297.	1853.	851.	1040.	0.0436	0.0142	3.079	0.513	6.242		0	
0.775	334.	1971.	879.	1074.	0.0435	0.0145	3.004	0.500	5.894		0	
0.800	372.	2101.	907.	1109.	0.0435	0.0147	2.969	0.494	5.644		0	
0.825	417.	2225.	936.	1144.	0.0433	0.0150	2.892	0.480	5.330		0	
0.850	466.	2353.	964.	1178.	0.0431	0.0153	2.824	0.468	5.052		0	
0.875	513.	2450.	992.	1213.	0.0424	0.0154	2.748	0.452	4.775		0	
0.900	563.	2567.	1021.	1248.	0.0420	0.0156	2.697	0.441	4.557		0	
0.925	615.	2669.	1049.	1282.	0.0413	0.0156	2.642	0.429	4.343		0	
0.950	681.	2780.	1077.	1317.	0.0408	0.0160	2.551	0.411	4.084		0	
0.975	750.	2840.	1106.	1352.	0.0396	0.0163	2.428	0.386	3.787		0	
1.000	847.	2957.	1134.	1386.	0.0392	0.0171	2.294	0.362	3.489		0	

STATIC PRCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 26 WALLS UP

BETA= 4.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9450

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
733.	150.	1365.	0.528	0.0647	0.0204	3.1642	0.6423	9.1000
861.	240.	1905.	0.620	0.0654	0.0202	3.2420	0.6618	7.9375
984.	355.	2390.	0.709	0.0629	0.0200	3.1426	0.6288	6.7324
1102.	508.	3005.	0.794	0.0630	0.0204	3.0923	0.6195	5.9154
1127.	540.	3110.	0.812	0.0624	0.0203	3.0790	0.6136	5.7593
1164.	601.	3300.	0.838	0.0620	0.0205	3.0319	0.6026	5.4908
1192.	654.	3510.	0.858	0.0629	0.0207	3.0348	0.6074	5.3670
1224.	715.	3700.	0.881	0.0629	0.0209	3.0047	0.6013	5.1748
1252.	761.	3808.	0.902	0.0619	0.0208	2.9719	0.5899	5.0039
1284.	831.	3933.	0.925	0.0608	0.0211	2.8828	0.5670	4.7329
1316.	920.	4105.	0.948	0.0604	0.0217	2.7855	0.5461	4.4620
1348.	1029.	4200.	0.971	0.0589	0.0226	2.6100	0.5053	4.0816
1378.	1135.	4274.	0.992	0.0573	0.0233	2.4616	0.4703	3.7656
1405.	1269.	4430.	1.012	0.0572	0.0246	2.3267	0.4439	3.4909
1439.	1416.	4538.	1.036	0.0558	0.0255	2.1877	0.4124	3.2048
1467.	1537.	4610.	1.056	0.0546	0.0261	2.0873	0.3890	2.9993

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	383.	2526.	824.	1007.	0.0635	0.0202	3.146	0.632	6.587		0	
0.750	426.	2690.	852.	1041.	0.0632	0.0202	3.121	0.626	6.317		0	
0.775	471.	2859.	880.	1076.	0.0629	0.0203	3.097	0.620	6.066		0	
0.800	519.	3028.	909.	1111.	0.0625	0.0203	3.074	0.613	5.832		0	
0.825	573.	3224.	937.	1146.	0.0626	0.0204	3.060	0.611	5.630		0	
0.850	632.	3423.	966.	1180.	0.0626	0.0206	3.034	0.606	5.419		0	
0.875	695.	3630.	994.	1215.	0.0626	0.0208	3.010	0.601	5.223		0	
0.900	761.	3809.	1022.	1250.	0.0621	0.0209	2.968	0.590	5.007		0	
0.925	834.	3958.	1051.	1285.	0.0611	0.0211	2.892	0.570	4.746		0	
0.950	928.	4088.	1079.	1319.	0.0598	0.0217	2.756	0.538	4.403		0	
0.975	1050.	4220.	1108.	1354.	0.0586	0.0227	2.582	0.499	4.020		0	
1.000	1191.	4345.	1136.	1389.	0.0574	0.0239	2.404	0.460	3.650		0	

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 28 WALLS UP

BETA= 6.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9440

***** RAW DATA POINTS *****

Q/M	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
732.	210.	1728.	0.527	0.0821	0.0287	2.8573	0.6535	8.2286
856.	302.	2363.	0.616	0.0821	0.0258	3.1773	0.7266	7.8245
977.	464.	3052.	0.704	0.0814	0.0267	3.0485	0.6942	6.5776
1106.	680.	3910.	0.796	0.0814	0.0270	3.0168	0.6869	5.7500
1131.	736.	4090.	0.814	0.0814	0.0273	2.9815	0.6789	5.5571
1246.	1024.	5063.	0.897	0.0831	0.0284	2.9225	0.6721	4.9443
1294.	1183.	5426.	0.932	0.0825	0.0293	2.8155	0.6454	4.5866

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	TH
0.725	502.	3233.	824.	1007.	0.0812	0.0264	3.074	0.699	6.437		0	
0.750	562.	3466.	852.	1041.	0.0814	0.0267	3.047	0.694	6.167		0	
0.775	627.	3709.	880.	1076.	0.0816	0.0270	3.020	0.688	5.915		0	
0.800	695.	3953.	909.	1111.	0.0816	0.0272	2.998	0.683	5.689		0	
0.825	773.	4214.	937.	1146.	0.0818	0.0276	2.963	0.676	5.452		0	
0.850	857.	4485.	966.	1180.	0.0820	0.0280	2.930	0.670	5.234		0	
0.875	947.	4767.	994.	1215.	0.0822	0.0283	2.901	0.664	5.033		0	
0.900	1043.	5060.	1022.	1250.	0.0825	0.0287	2.875	0.659	4.850		0	
0.925	1146.	5363.	1051.	1285.	0.0828	0.0290	2.853	0.655	4.682		0	

STATIC PRCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 29 WALLS UP

BETA= 8.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 24.3 TEMPR= 535.43 SIGMA=0.3460

***** RAW DATA POINTS *****

RPM	HP	TH	IMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
730.	238.	2135.	0.526	0.1020	0.0328	3.1065	0.7918	8.9706
858.	412.	2960.	0.619	0.1024	0.0350	2.9242	0.7467	7.1845
978.	647.	3900.	0.705	0.1038	0.0371	2.7965	0.7191	6.0278
1097.	941.	4970.	0.791	0.1052	0.0383	2.7485	0.7113	5.2816
1127.	1047.	5240.	0.813	0.1051	0.0393	2.6757	0.6921	5.0048
1160.	1140.	5538.	0.836	0.1048	0.0392	2.6732	0.6906	4.8579
1191.	1270.	5980.	0.859	0.1074	0.0404	2.6603	0.6956	4.7087
1222.	1393.	6360.	0.881	0.1085	0.0410	2.6467	0.6956	4.5657
1247.	1510.	6660.	0.899	0.1091	0.0418	2.6091	0.6876	4.4106
1254.	1515.	6660.	0.904	0.1079	0.0412	2.6151	0.6854	4.3960
1282.	1656.	6965.	0.924	0.1079	0.0422	2.5578	0.6706	4.2059
1322.	1877.	7255.	0.953	0.1057	0.0436	2.4240	0.6289	3.8652
1341.	1969.	7465.	0.967	0.1057	0.0438	2.4118	0.6258	3.7913
1347.	1991.	7485.	0.971	0.1051	0.0437	2.4022	0.6214	3.7594
1381.	2210.	7720.	0.996	0.1031	0.0450	2.2884	0.5863	3.4932
1407.	2381.	7950.	1.014	0.1023	0.0459	2.2286	0.5687	3.3389
1436.	2547.	8225.	1.035	0.1016	0.0462	2.1998	0.5595	3.2293
1467.	2789.	8500.	1.058	0.1006	0.0474	2.1209	0.5368	3.0477

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	TH
0.725	710.	4132.	823.	1006.	0.1041	0.0375	2.776	0.715	5.819		0	0
0.750	796.	4433.	851.	1040.	0.1043	0.0380	2.747	0.708	5.566		0	0
0.775	889.	4745.	879.	1075.	0.1046	0.0384	2.723	0.703	5.339		0	0
0.800	988.	5081.	908.	1110.	0.1051	0.0388	2.707	0.700	5.142		0	0
0.825	1096.	5426.	936.	1144.	0.1055	0.0393	2.687	0.697	4.951		0	0
0.850	1219.	5801.	965.	1179.	0.1063	0.0400	2.660	0.692	4.757		0	0
0.875	1355.	6230.	993.	1214.	0.1077	0.0407	2.646	0.693	4.597		0	0
0.900	1502.	6642.	1021.	1248.	0.1086	0.0414	2.620	0.689	4.424		0	0
0.925	1667.	6947.	1050.	1283.	0.1075	0.0424	2.536	0.663	4.167		0	0
0.950	1843.	7244.	1078.	1318.	0.1063	0.0432	2.457	0.639	3.931		0	0
0.975	2038.	7514.	1106.	1352.	0.1046	0.0442	2.366	0.611	3.687		0	0
1.000	2243.	7784.	1135.	1387.	0.1030	0.0451	2.284	0.585	3.471		0	0

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 31 WALLS UP

BETA=10.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 22.0 TEMPOR= 531.29 SIGMA=0.9590

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
735.	326.	2523.	0.532	0.1189	0.0441	2.6984	0.7426	7.7393
860.	550.	3503.	0.622	0.1206	0.0464	2.5984	0.7201	6.3691
984.	843.	4629.	0.712	0.1218	0.0475	2.5632	0.7137	5.4911
1105.	1270.	6110.	0.800	0.1274	0.0505	2.5219	0.7184	4.8110
1125.	1346.	6298.	0.814	0.1267	0.0508	2.4971	0.7094	4.6790
1155.	1494.	6757.	0.836	0.1290	0.0521	2.4780	0.7102	4.5228
1189.	1662.	7236.	0.861	0.1304	0.0531	2.4557	0.7075	4.3538
1227.	1881.	7778.	0.888	0.1316	0.0547	2.4068	0.6967	4.1350
1253.	2069.	8237.	0.907	0.1336	0.0565	2.3664	0.6903	3.9812
1284.	2205.	8425.	0.929	0.1301	0.0559	2.3273	0.6700	3.8209
1314.	2395.	8717.	0.951	0.1286	0.0567	2.2687	0.6492	3.6397
1349.	2574.	9071.	0.976	0.1269	0.0563	2.2552	0.6412	3.5241
1374.	2773.	9300.	0.994	0.1255	0.0574	2.1860	0.6179	3.3538
1411.	3039.	9759.	1.021	0.1248	0.0581	2.1494	0.6060	3.2113
1436.	3258.	9968.	1.039	0.1231	0.0591	2.0842	0.5836	3.0595
1467.	3531.	10323.	1.062	0.1222	0.0600	2.0345	0.5675	2.9235

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	907.	4853.	820.	1002.	0.1232	0.0484	2.542	0.712	5.350		0	
0.750	1021.	5242.	848.	1036.	0.1243	0.0493	2.524	0.710	5.135		0	
0.775	1144.	5652.	876.	1071.	0.1256	0.0500	2.510	0.710	4.942		0	
0.800	1271.	6073.	904.	1105.	0.1266	0.0505	2.505	0.711	4.778		0	
0.825	1420.	6541.	933.	1140.	0.1282	0.0515	2.491	0.712	4.607		0	
0.850	1583.	7008.	961.	1174.	0.1294	0.0525	2.466	0.708	4.426		0	
0.875	1786.	7560.	989.	1209.	0.1317	0.0543	2.428	0.703	4.233		0	
0.900	1985.	8025.	1017.	1243.	0.1322	0.0554	2.385	0.692	4.043		0	
0.925	2190.	8416.	1046.	1278.	0.1312	0.0563	2.330	0.674	3.844		0	
0.950	2380.	8739.	1074.	1313.	0.1292	0.0565	2.286	0.656	3.671		0	
0.975	2580.	9028.	1102.	1347.	0.1267	0.0567	2.236	0.635	3.499		0	
1.000	2816.	9408.	1130.	1382.	0.1255	0.0573	2.190	0.619	3.341		0	

STATIC PROP PERFORMANCE

XC-142A12CFE16A3-4A, RUN NO 32 WALLS UP

BETA=12.0 AL= 86.0 DIA=15.625 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	IMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
734.	412.	2906.	0.529	0.1374	0.0559	2.4559	0.7264	7.0534
854.	676.	4043.	0.615	0.1412	0.0583	2.4229	0.7265	5.9808
975.	1032.	5391.	0.702	0.1444	0.0598	2.4161	0.7327	5.2238
1096.	1575.	7097.	0.789	0.1505	0.0642	2.3428	0.7252	4.5060
1130.	1786.	7673.	0.814	0.1516	0.0665	2.2819	0.7091	4.2570
1158.	1990.	8045.	0.834	0.1528	0.0688	2.2208	0.6927	4.0427
1162.	1916.	8087.	0.837	0.1525	0.0656	2.3266	0.7251	4.2208
1190.	2196.	8635.	0.857	0.1553	0.0700	2.2197	0.6980	3.9321
1192.	2233.	8634.	0.858	0.1548	0.0708	2.1864	0.6864	3.8665
1227.	2229.	9077.	0.884	0.1535	0.0648	2.3703	0.7412	4.0722
1229.	2518.	9222.	0.885	0.1555	0.0728	2.1352	0.6719	3.6624
1260.	2711.	9561.	0.907	0.1534	0.0728	2.1080	0.6588	3.5267
1290.	2952.	9982.	0.929	0.1528	0.0738	2.0692	0.6454	3.3814
1318.	3129.	10256.	0.949	0.1504	0.0734	2.0493	0.6341	3.2777
1345.	3416.	10741.	0.969	0.1512	0.0754	2.0062	0.6225	3.1443
1375.	3692.	11035.	0.990	0.1486	0.0762	1.9496	0.5998	2.9889
1409.	4023.	11540.	1.015	0.1480	0.0772	1.9173	0.5887	2.8685

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	1171.	5827.	824.	1007.	0.1464	0.0616	2.376	0.725	4.974		0	
0.750	1329.	6298.	852.	1041.	0.1479	0.0632	2.342	0.719	4.740		0	
0.775	1501.	6793.	880.	1076.	0.1494	0.0646	2.311	0.713	4.527		0	
0.800	1666.	7301.	909.	1111.	0.1507	0.0652	2.310	0.715	4.383		0	
0.825	1873.	7856.	937.	1146.	0.1524	0.0669	2.280	0.710	4.194		0	
0.850	2121.	8435.	966.	1180.	0.1542	0.0692	2.227	0.698	3.977		0	
0.875	2330.	8987.	994.	1215.	0.1550	0.0697	2.224	0.699	3.858		0	
0.900	2583.	9447.	1022.	1250.	0.1540	0.0710	2.169	0.679	3.658		0	
0.925	2901.	9870.	1051.	1285.	0.1524	0.0735	2.073	0.646	3.403		0	
0.950	3174.	10334.	1079.	1319.	0.1512	0.0742	2.038	0.632	3.256		0	
0.975	3482.	10792.	1108.	1354.	0.1499	0.0753	1.991	0.615	3.099		0	
1.000	3819.	11256.	1136.	1389.	0.1487	0.0766	1.942	0.597	2.948		0	

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 33 WALLS UP

BETA=14.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9450

***** RAW DATA POINTS *****

	RPM	HP	TH	TMACH	RCI	RCP	RCT/CP	RFM	RTH/HP
	739.	398.	3385.	0.531	0.1579	0.0529	2.9815	0.9453	8.5050
	863.	891.	4613.	0.620	0.1577	0.0744	2.1195	0.6718	5.1773
	882.	1070.	4824.	0.634	0.1579	0.0837	1.8863	0.5982	4.5084
	977.	1345.	6115.	0.702	0.1632	0.0774	2.1071	0.6792	4.5465
	1101.	2131.	8295.	0.792	0.1743	0.0857	2.0330	0.6773	3.8925
	1127.	2337.	8824.	0.810	0.1769	0.0877	2.0186	0.6776	3.7758
	1162.	2579.	9289.	0.835	0.1752	0.0882	1.9854	0.6632	3.6018
	1187.	2808.	9628.	0.853	0.1740	0.0901	1.9307	0.6427	3.4288
	1226.	3137.	10453.	0.881	0.1771	0.0914	1.9379	0.6508	3.3322
	1255.	3407.	10876.	0.902	0.1759	0.0925	1.9005	0.6360	3.1923
	1288.	3751.	11321.	0.926	0.1738	0.0942	1.8441	0.6135	3.0181
	1299.	3845.	11532.	0.934	0.1741	0.0942	1.8482	0.6153	2.9992

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	T'PS	RPM	CI	CP	CT/CP	FM	TH/HP	ERROR-	HP	TH
0.725	1540.	6680.	825.	1008.	0.1673	0.0806	2.076	0.677	4.339		0	
0.750	1741.	7249.	853.	1043.	0.1696	0.0823	2.061	0.677	4.165		0	
0.775	1964.	7843.	882.	1078.	0.1719	0.0842	2.042	0.676	3.994		0	
0.800	2198.	8456.	910.	1113.	0.1739	0.0856	2.031	0.676	3.848		0	
0.825	2482.	9083.	939.	1148.	0.1757	0.0882	1.992	0.666	3.659		0	
0.850	2760.	9634.	967.	1182.	0.1755	0.0897	1.958	0.654	3.490		0	
0.875	3056.	10213.	996.	1217.	0.1756	0.0910	1.930	0.645	3.342		0	
0.900	3384.	10817.	1024.	1252.	0.1758	0.0926	1.898	0.635	3.196		0	
0.925	3726.	11340.	1053.	1287.	0.1744	0.0939	1.858	0.619	3.044		0	

STATIC PRCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NU 36 WALLS UP

BETA=16.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 20.0 TEMPR= 527.69 SIGMA=0.9690

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
733.	662.	3715.	0.532	0.1761	0.0902	1.9513	0.6534	5.6118
857.	1096.	5180.	0.622	0.1796	0.0935	1.9214	0.6498	4.7263
976.	1674.	6729.	0.709	0.1799	0.0967	1.8611	0.6299	4.0197
1025.	2010.	7550.	0.744	0.1830	0.1002	1.8264	0.6235	3.7562
1104.	2622.	8895.	0.802	0.1859	0.1046	1.7767	0.6112	3.3924
1128.	2883.	9370.	0.819	0.1875	0.1078	1.7391	0.6010	3.2501
1159.	3159.	9948.	0.842	0.1886	0.1089	1.7314	0.6000	3.1491
1184.	3421.	10381.	0.860	0.1886	0.1107	1.7044	0.5906	3.0345

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	TI
0.725	1835.	7122.	817.	998.	0.1820	0.0990	1.838	0.626	3.880		0	
0.750	2060.	7651.	845.	1033.	0.1827	0.1004	1.819	0.621	3.714		0	
0.775	2327.	8237.	873.	1067.	0.1842	0.1028	1.792	0.614	3.539		0	
0.800	2620.	8856.	901.	1102.	0.1859	0.1052	1.766	0.608	3.380		0	
0.825	2937.	9501.	929.	1136.	0.1875	0.1076	1.743	0.602	3.235		0	
0.850	3280.	10140.	958.	1170.	0.1885	0.1098	1.717	0.595	3.092		0	

STATIC PROCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 37 WALLS UP

BETA=17.9 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 21.0 TEMPR= 529.49 SIGMA=0.9660

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
733.	817.	3933.	0.531	0.1864	0.1114	1.6739	0.5767	4.8140
734.	804.	3954.	0.532	0.1869	0.1092	1.7124	0.5908	4.9179
862.	1357.	5527.	0.625	0.1894	0.1137	1.6655	0.5785	4.0730
922.	1697.	6355.	0.668	0.1904	0.1162	1.6379	0.5703	3.7448
983.	2079.	7224.	0.713	0.1904	0.1175	1.6203	0.5642	3.4747
1028.	2442.	8011.	0.745	0.1931	0.1207	1.5998	0.5609	3.2805
1100.	3084.	9274.	0.798	0.1952	0.1244	1.5692	0.5532	3.0071
1117.	3267.	9605.	0.810	0.1961	0.1259	1.5578	0.5504	2.9400

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	I
0.725	2216.	7526.	818.	1000.	0.1917	0.1190	1.611	0.563	3.395		0	
0.750	2494.	8101.	846.	1034.	0.1928	0.1209	1.594	0.559	3.249		0	
0.775	2796.	8707.	875.	1069.	0.1941	0.1229	1.579	0.555	3.114		0	
0.800	3125.	9344.	903.	1103.	0.1955	0.1249	1.565	0.552	2.991		0	

STATIC PRCP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 38 WALLS UP

BETA=20.0 AF= 86.0 DIA=15.625 NBL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9620

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
737.	989.	4231.	0.533	0.1984	0.1326	1.4957	0.5316	4.2781
858.	1604.	5848.	0.621	0.2023	0.1363	1.4839	0.5326	3.6459
858.	1607.	5744.	0.621	0.1987	0.1366	1.4548	0.5175	3.5744
924.	2039.	6802.	0.669	0.2029	0.1388	1.4622	0.5256	3.3359
977.	2452.	7631.	0.707	0.2036	0.1412	1.4424	0.5194	3.1122
1022.	2819.	8316.	0.740	0.2028	0.1418	1.4302	0.5139	2.9500
1042.	3002.	8503.	0.754	0.1994	0.1425	1.4001	0.4990	2.8324
1050.	3070.	8792.	0.760	0.2031	0.1424	1.4265	0.5130	2.8638

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR--	HP
0.725	2648.	7998.	820.	1002.	0.2030	0.1415	1.435	0.516	3.020		0
0.750	2948.	8514.	848.	1036.	0.2019	0.1422	1.420	0.509	2.888		0

STATIC PRUP PERFORMANCE

C-119(2J17G3-26R) RUN NO 55 WALLS UP

BETA= 0. AF=122.0 DIA=14.917 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9400

***** RAW DATA PUNTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
783.	110.	947.	C.537	C.0474	C.0155	3.0528	0.5301	8.6091
894.	179.	1203.	C.613	C.0461	C.0170	2.7210	0.4664	6.7207
1025.	273.	1511.	C.702	C.0441	0.0172	2.5693	0.4305	5.5348
1148.	356.	1807.	C.787	C.0420	0.0177	2.3724	0.3882	4.5631
1180.	435.	1884.	C.809	C.0415	0.0179	2.3145	0.3762	4.3310
1218.	483.	1980.	C.835	C.0409	0.0181	2.2613	0.3650	4.0994
1248.	525.	2042.	C.855	C.0402	0.0183	2.1983	0.3517	3.8895
1275.	562.	2096.	C.874	C.0395	0.0184	2.1535	0.3417	3.7295
1308.	619.	2202.	C.896	C.0395	0.0187	2.1073	0.3340	3.5574
1351.	658.	2352.	C.926	C.0395	0.0192	2.0617	0.3270	3.3696

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	306.	1590.	826.	1058.	0.0435	0.0175	2.491	0.415	5.198		0
0.750	342.	1678.	855.	1095.	0.0429	0.0176	2.434	0.402	4.909		0
0.775	380.	1766.	883.	1131.	0.0423	0.0178	2.381	0.391	4.647		0
0.800	420.	1854.	912.	1168.	0.0417	0.0179	2.335	0.380	4.416		0
0.825	465.	1941.	940.	1204.	0.0411	0.0180	2.276	0.368	4.175		0
0.850	514.	2025.	969.	1241.	0.0403	0.0182	2.215	0.355	3.942		0
0.875	567.	2113.	997.	1277.	0.0397	0.0184	2.154	0.343	3.725		0
0.900	628.	2222.	1026.	1313.	0.0395	0.0188	2.103	0.334	3.536		0
0.925	696.	2344.	1054.	1350.	0.0394	0.0191	2.060	0.327	3.370		0

STATIC PUMP PERFORMANCE

C-1119(2J17G3-26R) KUN NO 56 WALLS UP

BETA= 2.6 AF=122.0 CIA=14.917 NHL=4 TEMPC= 27.7 TEMPR= 540.29 SIGMA=0.9400

***** RAW DATA PCINTS *****

KPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
800.	157.	1255.	C.548	C.601	C.0208	2.8961	0.5667	7.9936
897.	226.	1575.	C.615	C.600	0.0212	2.8311	0.5534	6.9690
1023.	330.	1915.	C.701	C.0561	C.0209	2.6885	0.5082	5.8030
1150.	490.	2469.	C.788	0.0572	0.0218	2.6243	0.5010	5.0388
1185.	525.	2503.	C.812	0.0560	0.0215	2.6001	0.4908	4.8450
1216.	581.	2702.	C.833	C.0560	0.0219	2.5611	0.4837	4.6506
1243.	625.	2800.	C.852	C.0556	0.0220	2.5219	0.4744	4.4800
1274.	665.	2893.	C.873	C.0546	0.0219	2.4950	0.4654	4.3244
1310.	735.	3042.	C.898	0.0543	0.0221	2.4554	0.4568	4.1388
1342.	752.	3108.	C.920	0.0529	0.0222	2.3850	0.4378	3.9242
1353.	820.	3192.	C.927	0.0535	0.0224	2.3852	0.4401	3.8927

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP	ERROR--	HP
0.725	372.	2080.	826.	1058.	C.0570	0.0213	2.676	0.510	5.585		0
C.750	415.	2216.	855.	1095.	0.0567	0.0214	2.647	0.503	5.340		0
0.775	461.	2358.	883.	1131.	0.0565	0.0216	2.621	0.497	5.117		0
0.800	509.	2495.	912.	1168.	0.0561	0.0216	2.593	0.490	4.904		0
C.825	563.	2656.	940.	1204.	0.0562	0.0218	2.574	0.487	4.720		0
C.850	617.	2780.	969.	1241.	C.0554	0.0219	2.531	0.475	4.506		0
C.875	676.	2912.	997.	1277.	0.0547	C.0220	2.491	0.465	4.308		0
0.900	740.	3038.	1026.	1313.	0.0540	0.0221	2.440	0.452	4.102		0
C.925	811.	3164.	1054.	1350.	0.0532	0.0223	2.384	0.439	3.900		0

STATIC PROP PERFORMANCE

C-119(2J17GJ-26R) KON NU 57 WALLS UP

DETA= 4.0 AF=122.0 DIA=14.917 NAL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
778.	181.	1528.	C.534	C.0774	C.0260	2.9745	C.6603	8.4420
901.	281.	2017.	C.618	C.0762	C.0260	2.9289	C.6451	7.1779
1028.	430.	2568.	C.706	C.0745	C.0268	2.7804	C.6056	5.9721
1092.	514.	2888.	C.749	C.0743	C.0267	2.7787	C.6042	5.6187
1153.	606.	3153.	C.791	C.0727	C.0268	2.7168	C.5846	5.2030
1186.	672.	3386.	C.814	C.0738	C.0273	2.7064	C.5867	5.0387
1214.	721.	3525.	C.833	C.0733	C.0273	2.6860	C.5808	4.8890
1246.	779.	3672.	C.855	C.0725	C.0273	2.6599	C.5716	4.7137
1279.	832.	3780.	C.878	C.0708	C.0269	2.6316	C.5590	4.5433
1309.	902.	3950.	C.898	C.0707	C.0272	2.5961	C.5507	4.3792
1349.	984.	4140.	C.926	C.0697	C.0271	2.5704	C.5417	4.2073
1370.	1048.	4310.	C.940	C.0704	C.0276	2.5516	C.5403	4.1126

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	465.	2705.	825.	1056.	C.0743	C.0267	2.784	0.606	5.819		0
C.750	517.	2878.	853.	1093.	C.0739	C.0268	2.757	0.598	5.570		0
C.775	573.	3063.	882.	1129.	C.0737	C.0269	2.733	0.592	5.345		0
C.800	632.	3254.	910.	1166.	C.0734	C.0270	2.720	0.588	5.152		0
C.825	698.	3448.	939.	1202.	C.0732	C.0272	2.691	0.581	4.943		0
C.850	764.	3637.	967.	1238.	C.0727	C.0272	2.670	0.574	4.760		0
C.875	830.	3786.	996.	1275.	C.0714	C.0271	2.633	0.561	4.560		0
C.900	903.	3952.	1024.	1311.	C.0705	C.0271	2.599	0.551	4.377		0
C.925	988.	4156.	1053.	1348.	C.0702	C.0273	2.569	0.543	4.209		0

STATIC PROP PERFORMANCE

C-119(2J17G3-26R) RUN NO 58 WALLS UP

BETA= 0.0 AF=122.0 DIA=14.917 NBL=4 TEMPC= 26.0 TENPR= 538.49 SIGMA=0.9420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
765.	234.	1890.	0.525	0.0390	0.0354	2.7983	0.7026	8.0769
898.	371.	2547.	0.616	0.0968	0.0347	2.7920	0.6933	6.8652
1030.	561.	3353.	0.707	0.0969	0.0348	2.7880	0.6925	5.9768
1099.	686.	3728.	0.754	0.0946	0.0350	2.7048	0.6640	5.4344
1147.	780.	4025.	0.787	0.0938	0.0350	2.6805	0.6551	5.1603
1161.	864.	4268.	0.811	0.0938	0.0355	2.5421	0.6458	4.9398
1218.	1022.	4840.	0.836	0.0926	0.0348	2.6572	0.6452	4.8172
1247.	1058.	4992.	0.856	0.0955	0.0357	2.6756	0.6597	4.7378
1283.	1058.	4992.	0.881	0.0930	0.0352	2.6417	0.6428	4.5464
1309.	1153.	5098.	0.898	0.0912	0.0348	2.6212	0.6317	4.4215
1351.	1280.	5415.	0.927	0.0910	0.0351	2.5884	0.6229	4.2305
1370.	1359.	5630.	0.940	0.0920	0.0358	2.5704	0.6220	4.1428
1378.	1379.	5690.	0.946	0.0919	0.0357	2.5750	0.6228	4.1262

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	608.	3477.	825.	1056.	0.0955	0.0349	2.738	0.675	5.723		0
0.750	675.	3699.	853.	1093.	0.0950	0.0350	2.711	0.667	5.478		0
0.775	746.	3931.	882.	1129.	0.0945	0.0351	2.696	0.661	5.272		0
0.800	822.	4145.	910.	1166.	0.0935	0.0351	2.662	0.650	5.043		0
0.825	905.	4418.	939.	1202.	0.0938	0.0353	2.658	0.650	4.883		0
0.850	992.	4700.	967.	1238.	0.0940	0.0354	2.657	0.650	4.738		0
0.875	1076.	4940.	996.	1275.	0.0932	0.0351	2.652	0.646	4.593		0
0.900	1162.	5125.	1024.	1311.	0.0914	0.0349	2.618	0.631	4.408		0
0.925	1273.	5400.	1053.	1348.	0.0912	0.0352	2.589	0.624	4.242		0

STATIC PROP PERFORMANCE

C-115(2J17G3-26R) RUN NO 59 WALLS UP

BETA= 8.0 AF=122.0 DIA=14.917 NBL=7 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9470

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/HP
769.	305.	2363.	C.530	C.1225	0.0454	2.6982	0.7536	7.7475
900.	499.	3207.	C.620	0.1214	0.0463	2.6195	0.7283	5.4269
1027.	728.	4030.	C.707	C.1171	0.0455	2.5747	0.7032	5.5357
1100.	921.	4705.	C.758	0.1192	0.0468	2.5449	0.7012	5.1086
1154.	1057.	5169.	C.795	0.1190	0.0466	2.5558	0.7035	4.8903
1183.	1127.	5381.	C.815	0.1179	0.0461	2.5580	0.7009	4.7746
1217.	1246.	5718.	C.838	0.1184	0.0468	2.5293	0.6944	4.5891
1245.	1320.	5908.	C.857	0.1169	0.0463	2.5236	0.6884	4.4758
1274.	1406.	6161.	C.877	0.1154	0.0460	2.5282	0.6883	4.3819
1276.	1358.	5971.	C.879	C.1124	0.0456	2.4682	0.6604	4.2711
1309.	1524.	6457.	C.901	C.1155	0.0463	2.4953	0.6768	4.2093
1343.	1664.	6836.	C.925	0.1162	0.0465	2.4987	0.6797	4.1082
1376.	1810.	7069.	C.948	C.1145	0.0470	2.4338	0.6571	3.9055
1413.	1578.	7406.	C.973	0.1137	0.0475	2.3960	0.6448	3.7442
1439.	2180.	7955.	C.991	0.1178	0.0495	2.3781	0.6513	3.6491

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
C.725	799.	4291.	822.	1053.	0.1187	0.0463	2.562	0.704	5.373		0
0.750	885.	4586.	851.	1089.	0.1185	0.0464	2.556	0.702	5.183		0
0.775	976.	4884.	879.	1125.	0.1182	0.0464	2.551	0.700	5.005		0
C.800	1079.	5231.	907.	1162.	0.1188	0.0466	2.550	0.701	4.847		0
C.825	1180.	5531.	936.	1198.	0.1181	0.0464	2.544	0.698	4.689		0
C.850	1288.	5826.	964.	1234.	0.1172	0.0464	2.528	0.691	4.522		0
0.875	1397.	6082.	992.	1271.	0.1155	0.0461	2.504	0.679	4.352		0
C.900	1519.	6412.	1021.	1307.	0.1151	0.0461	2.499	0.676	4.221		0
0.925	1658.	6756.	1049.	1343.	0.1149	0.0463	2.479	0.670	4.076		0
C.950	1828.	7162.	1077.	1380.	0.1154	0.0471	2.448	0.664	3.918		0
0.975	2023.	7580.	1106.	1416.	0.1159	0.0483	2.402	0.653	3.746		0

STATIC PROP PERFORMANCE

C-115(2J17G3-26R) RUN NO 31 FALLS UP

BETA= 8.2 AF=122.1 JIA=14.917 NRL=4 TEMPC= 22.2 TEMPR= 531.29 SIGMA=0.9580

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RPM	RTH/HP
768.	304.	2381.	0.531	0.1238	0.0454	2.7241	0.7648	7.8322
900.	488.	3162.	0.622	0.1197	0.0453	2.6410	0.7291	6.4795
1022.	722.	4062.	0.706	0.1192	0.0458	2.6040	0.7175	5.6260
1150.	1039.	5145.	0.795	0.1193	0.0462	2.5790	0.7108	4.9519
1188.	1143.	5435.	0.821	0.1181	0.0461	2.5583	0.7015	4.7550
1219.	1250.	5742.	0.842	0.1185	0.0467	2.5359	0.6965	4.5936
1255.	1350.	6080.	0.867	0.1183	0.0462	2.5597	0.7027	4.5037
1276.	1416.	6265.	0.882	0.1180	0.0461	2.5568	0.7008	4.4244

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	RTH/HP	ERROR-	HP
UNDRFLOW AT 62447 IN AC AND MQ.											
UNDRFLOW AT 62447 IN AC AND MQ.											
C.725	783.	4271.	820.	1049.	0.1189	0.0459	2.591	0.713	5.452		0
UNDRFLOW AT 62447 IN AC AND MQ.											
UNDRFLOW AT 62447 IN AC AND MQ.											
C.750	870.	4564.	848.	1085.	0.1188	0.0461	2.577	0.709	5.243		0
0.775	564.	4869.	876.	1122.	0.1186	0.0462	2.566	0.705	5.053		0
C.800	1061.	5192.	924.	1158.	0.1187	0.0463	2.566	0.705	4.893		0
0.825	1166.	5514.	933.	1194.	0.1186	0.0464	2.558	0.703	4.731		0
C.850	1274.	5841.	961.	1230.	0.1183	0.0463	2.555	0.701	4.586		0
0.875	1387.	6177.	989.	1266.	0.1181	0.0462	2.554	0.700	4.453		0

STATIC PROP PERFORMANCE

C-119(2J1/G3-26R) RUN NO 45 WALLS UP

WETA=12.0 AF=122.0 DIA=14.917 NHL=4 TE4PC= 24.5 TEMPR= 535.73 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/HP
767.	385.	2722.	0.528	0.1419	0.0578	2.4559	0.7381	7.0701
899.	626.	3700.	0.619	0.1424	0.0583	2.4064	0.7194	5.9105
1027.	936.	4750.	0.707	0.1341	0.0585	2.3603	0.6999	5.0748
1155.	1351.	6105.	0.795	0.1403	0.0594	2.3637	0.7065	4.5189
1178.	1439.	6325.	0.811	0.1397	0.0596	2.3449	0.6995	4.3954
1216.	1585.	6870.	0.837	0.1424	0.0597	2.3870	0.7189	4.3344
1248.	1727.	7155.	0.859	0.1408	0.0601	2.3416	0.7013	4.1430
1274.	1820.	7422.	0.877	0.1402	0.0596	2.3529	0.7030	4.0780
1305.	1957.	7783.	0.898	0.1401	0.0596	2.3495	0.7017	3.9755
1342.	2109.	8135.	0.923	0.1335	0.0591	2.3443	0.6962	3.8573
1374.	2257.	8640.	0.945	0.1403	0.0599	2.3406	0.6996	3.7614
1417.	2422.	9358.	0.975	0.1429	0.0624	2.2904	0.6909	3.5690
1437.	2772.	9660.	0.989	0.1434	0.0632	2.2679	0.6854	3.4848

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1019.	5031.	823.	1054.	0.1389	0.0590	2.357	0.701	4.939		0
0.750	1132.	5401.	851.	1090.	0.1394	0.0592	2.355	0.702	4.771		0
0.775	1253.	5790.	880.	1126.	0.1399	0.0594	2.357	0.704	4.621		0
0.800	1380.	6176.	908.	1163.	0.1401	0.0594	2.356	0.704	4.474		0
0.825	1519.	6504.	936.	1199.	0.1408	0.0597	2.360	0.707	4.346		0
0.850	1667.	7031.	965.	1235.	0.1412	0.0599	2.360	0.708	4.218		0
0.875	1816.	7430.	993.	1272.	0.1409	0.0598	2.356	0.705	4.090		0
0.900	1950.	7764.	1022.	1308.	0.1391	0.0590	2.358	0.702	3.981		0
0.925	2129.	8214.	1050.	1344.	0.1394	0.0593	2.349	0.700	3.859		0
0.950	2349.	8731.	1078.	1381.	0.1404	0.0604	2.324	0.695	3.717		0
0.975	2612.	9324.	1107.	1417.	0.1424	0.0622	2.291	0.690	3.569		0

STATIC PROP PERFORMANCE

C-119(2J17G3-26R) RUN NO 46 WALLS UP

BETA=11.9 AF=122.0 DIA=14.917 NBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9520

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
778.	521.	3279.	C.536	C.1661	C.0749	2.2175	C.7212	6.2937
897.	818.	4383.	C.618	C.167C	0.0767	2.1767	C.7098	5.3582
548.	570.	4897.	C.653	C.1671	C.0771	2.1675	0.7069	5.0485
1025.	1245.	5760.	C.706	C.1681	0.0783	2.1476	C.7026	4.6265
1100.	1547.	6660.	C.758	C.1687	0.0787	2.1447	0.7030	4.3051
1156.	1810.	7440.	C.796	C.1707	C.0793	2.1520	C.7095	4.1105
1185.	1955.	7845.	C.816	0.1713	C.0795	2.1535	C.7112	4.0128
1215.	2129.	8300.	C.837	C.1724	C.0804	2.1452	C.7107	3.8985
1251.	2338.	8830.	C.852	C.1730	C.0808	2.1397	0.7102	3.7767
1276.	2451.	9250.	C.879	C.1742	C.0812	2.1459	0.7147	3.7134
1306.	2678.	9690.	C.899	C.1742	0.0814	2.1401	0.7127	3.6184
1342.	2913.	10210.	C.924	C.1738	0.0816	2.1302	0.7087	3.5050
1379.	3176.	10930.	C.950	C.1762	0.0820	2.1493	0.7200	3.4414
1418.	3590.	11775.	C.977	0.1795	0.0852	2.1063	C.7122	3.2799
1441.	3813.	12200.	C.992	0.1801	0.0863	2.0880	C.7072	3.1996

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1351.	6082.	822.	1053.	C.1682	C.0784	2.147	C.703	4.503		0
0.750	1503.	6536.	851.	1089.	0.1689	0.0787	2.146	0.704	4.350		0
0.775	1665.	7011.	879.	1125.	C.1697	C.0791	2.147	C.706	4.212		0
0.800	1838.	7512.	907.	1152.	0.1706	0.0794	2.150	C.709	4.086		0
0.825	2030.	8040.	936.	1198.	0.1718	C.0799	2.149	0.711	3.961		0
0.850	2238.	8588.	964.	1234.	C.1728	C.0806	2.145	C.711	3.837		0
0.875	2458.	9150.	992.	1271.	0.1738	C.0811	2.142	C.713	3.723		0
0.900	2665.	9667.	1021.	1307.	0.1735	C.0808	2.147	C.714	3.627		0
0.925	2913.	10272.	1049.	1343.	0.1746	C.0814	2.145	C.715	3.526		0
0.950	3207.	10935.	1077.	1380.	0.1762	C.0827	2.130	C.713	3.410		0
0.975	3550.	11676.	1106.	1416.	C.1786	C.0847	2.109	C.711	3.289		0

STATIC PUMP PERFORMANCE

C-119(2J17G3-26R) RUN NO 61 WALLS UP

BEIA=12.0 AF=122.0 DIA=14.917 NBL=4 TEMPC= 19.0 TEMPR= 525.89 SIGMA=0.9690

***** RAW DATA PCINIS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
778.	521.	3335.	C.540	U.1689	C.C749	2.2554	0.7397	6.4012
880.	762.	4230.	C.611	C.1675	0.C757	2.2123	0.7225	5.5512
1021.	1210.	5678.	C.709	C.1670	C.C770	2.1698	0.7076	4.6926
1150.	1772.	7245.	C.799	0.1680	0.C789	2.1294	0.6964	4.0886
1182.	1923.	7685.	C.821	0.1686	0.0788	2.1393	0.7010	3.9964
1218.	2130.	8258.	C.846	C.1707	C.C798	2.1386	0.7050	3.8770
1255.	2337.	8800.	C.872	C.1713	0.C900	2.1402	0.7068	3.7655
1274.	2470.	9130.	C.885	0.1725	0.C809	2.1327	0.7068	3.6964
1289.	2572.	9370.	C.895	0.1729	0.C813	2.1267	0.7057	3.6431

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
C.725	1302.	5935.	815.	1044.	0.1670	0.0775	2.156	0.703	4.559		0
0.750	1451.	6369.	843.	1080.	0.1675	0.0780	2.147	0.701	4.389		0
0.775	1611.	6824.	872.	1116.	0.1680	0.0785	2.141	0.700	4.236		0
0.800	1779.	7290.	900.	1152.	0.1684	0.0788	2.138	0.700	4.098		0
0.825	1961.	7783.	928.	1188.	0.1691	0.0792	2.135	0.701	3.969		0
0.850	2156.	8328.	956.	1224.	0.1705	0.0796	2.141	0.705	3.863		0
0.875	2376.	8894.	984.	1260.	0.1718	0.0804	2.136	0.706	3.743		0

STATIC PROP PERFORMANCE

C-115(2J17GJ-26K) RUN NOJ 47 WALLS UP

BETA=14.6 AF=122.0 CIA=14.917 YPL=4 TEMPR= 533.09 SIGMA=0.9570

***** RAW DATA PLINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
779.	671.	3825.	C.537	C.1932	C.0961	2.0111	C.7055	5.7904
906.	1057.	5366.	C.621	C.1915	C.0582	1.9512	C.6814	4.7871
950.	1255.	5705.	C.655	C.1938	C.0991	1.9558	C.6871	4.5458
1032.	1622.	6775.	C.712	C.1950	C.0999	1.9522	C.6880	4.1769
1098.	1585.	7775.	C.757	C.1577	C.1015	1.9477	C.6911	3.9169
1154.	2324.	8635.	C.796	C.1988	C.1024	1.9418	C.6909	3.7156
1181.	2528.	9050.	C.815	C.1989	C.1039	1.9147	C.6815	3.5799
1215.	2789.	9680.	C.838	C.2010	C.1053	1.9098	C.6833	3.4708
1251.	3080.	10450.	C.863	C.2047	C.1065	1.9222	C.6940	3.3929
1277.	3300.	10820.	C.881	C.2034	C.1073	1.8962	C.6825	3.2788
1316.	3675.	11600.	C.908	C.2053	C.1092	1.8812	C.6803	3.1565
1333.	3850.	11965.	C.920	C.2064	C.1100	1.8761	C.6802	3.1078

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1721.	7069.	821.	1051.	C.1962	C.1004	1.955	C.691	4.107		0
0.750	1922.	7599.	849.	1087.	C.1971	C.1012	1.947	C.690	3.954		0
0.775	2137.	8146.	878.	1123.	C.1979	C.1020	1.940	C.688	3.812		0
0.800	2374.	8720.	906.	1150.	C.1988	C.1030	1.929	C.686	3.673		0
0.825	2636.	9348.	934.	1196.	C.2004	C.1043	1.921	C.686	3.546		0
0.850	2924.	10023.	962.	1232.	C.2024	C.1058	1.913	C.687	3.428		0
0.875	3230.	10712.	991.	1268.	C.2041	C.1071	1.905	C.687	3.317		0
0.900	3566.	11403.	1019.	1305.	C.2054	C.1087	1.889	C.683	3.198		0

STATIC PROCP PERFORMANCE

C-119(2J17G3-26R) RUN NO 48 WALLS UP

BETA=16.1 AF=122.0 DIA=14.917 NBL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9590

***** RAW DATA POINTS *****

KPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
777.	919.	4168.	C.537	C.2117	0.1182	1.7908	0.6575	5.0891
901.	1316.	5731.	C.623	C.2154	0.1218	1.7770	0.6597	4.3549
948.	1573.	6252.	0.655	C.2133	0.1250	1.7964	0.6289	3.9746
1026.	1589.	7358.	C.709	C.2155	0.1247	1.7283	0.6402	3.7195
1098.	2503.	8547.	0.759	C.2186	0.1280	1.7079	0.6373	3.4347
1155.	2597.	9639.	C.798	0.2215	C.1317	1.6823	0.6319	3.2162
1179.	3204.	10107.	C.815	0.2229	0.1323	1.6843	0.6346	3.1545
1207.	3507.	10733.	C.834	0.2259	C.1350	1.6729	0.6345	3.0605
1211.	3516.	10732.	C.837	0.2244	C.1341	1.6731	0.6324	3.0506

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	2154.	7758.	820.	1049.	0.2160	0.1262	1.712	0.635	3.692		0
0.750	2416.	8362.	848.	1085.	0.2176	0.1279	1.701	0.633	3.461		0
0.775	2694.	9018.	876.	1122.	0.2198	0.1293	1.700	0.636	3.347		0
C.800	3015.	9698.	904.	1158.	C.2218	0.1315	1.686	0.634	3.216		0
0.825	3359.	10417.	933.	1194.	0.2240	0.1336	1.677	0.633	3.101		0

STATIC PROP PERFORMANCE

C-115(2J17G3-26R) RUN NO 45 WALLS UP

BETA=13.0 AF=122.0 DIA=14.917 NREL=4 TEMPC= 23.0 TEMPR= 533.09 SIGMA=0.9560

***** RAW DATA PLINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
765.	549.	4393.	C.530	C.2277	0.1413	1.6121	0.6140	4.6291
849.	1279.	5334.	C.586	C.2269	0.1415	1.6035	0.6095	4.1704
900.	1567.	6015.	C.621	C.2277	0.1455	1.5646	0.5957	3.8385
958.	1907.	6524.	C.661	C.2306	0.1468	1.5707	0.6019	3.6203
978.	1978.	7061.	C.675	0.2263	0.1431	1.5811	0.6002	3.5698
1023.	2325.	7740.	C.706	0.2267	0.1470	1.5423	0.5861	3.3290
1028.	2553.	9100.	C.757	0.2314	0.1531	1.5119	0.5804	3.0404
1135.	3289.	9780.	C.783	0.2328	0.1523	1.5285	0.5884	2.9735

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
C.725	2550.	8252.	821.	1051.	0.2290	0.1487	1.540	0.588	3.236		0
0.750	2860.	8886.	849.	1097.	0.2304	0.1506	1.530	0.586	3.107		0
0.775	3198.	9550.	878.	1123.	0.2322	0.1526	1.521	0.585	2.990		0

STATIC PROP PERFORMANCE

C-119(2J17G3-26H) LN NO 50 WALLS UP

BETA=20.0 AF=122.0 DIA=14.917 ABLE=4 TE4PC= 25.0 TEMPR= 536.69 SIGMA=0.9509

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
767.	1129.	4418.	C.527	C.2302	C.1694	1.3593	0.5205	3.9132
848.	1551.	5576.	C.583	C.2377	0.1766	1.3460	0.5237	3.5047
901.	1881.	6154.	C.619	C.2324	C.1741	1.3350	0.5136	3.2717
949.	2193.	6438.	C.652	0.2328	0.1737	1.3401	0.5160	3.1181
979.	2419.	7259.	C.673	C.2322	C.1745	1.3305	0.5116	3.0008
1021.	2783.	8100.	C.702	C.2392	0.1770	1.3458	C.5242	2.9105
1039.	2994.	8363.	C.714	0.2375	0.1807	1.3143	0.5112	2.7933

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP

ASD-TR-69-15
PART II

STATIC PROP PERFORMANCE

CURTISS 15010642P3 FOR 2 1400164 WALLS UP FIG 4

BETA=13.0 AF=105.0 DIA=15.500 RBL=4 TAPC= 16.0 TEMPR= 520.49 SIGMA=0.9840

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
702.	163.	1385.	0.509	0.0739	0.0263	2.8069	0.6090	8.4969
995.	337.	2362.	0.649	0.0775	0.0263	2.9519	0.6560	7.0089
1003.	511.	3096.	0.728	0.0309	0.0283	2.8597	0.6492	6.0587
1098.	681.	3727.	0.796	0.0813	0.0288	2.8278	0.6434	5.4728
1133.	807.	4501.	0.870	0.0823	0.0294	2.8000	0.6412	4.9625
1252.	1075.	5910.	0.908	0.0841	0.0306	2.7458	0.6353	4.6605

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 5

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	176.	1482.	587.	724.	0.0744	0.0260	2.866	0.624	8.415
0.550	199.	1644.	615.	758.	0.0752	0.0255	2.949	0.645	8.266
0.575	226.	1815.	643.	793.	0.0760	0.0254	2.989	0.657	8.012
0.600	255.	1985.	671.	827.	0.0767	0.0256	2.998	0.662	7.701
0.625	297.	2185.	699.	862.	0.0774	0.0259	2.988	0.663	7.368
0.650	339.	2384.	727.	896.	0.0781	0.0263	2.966	0.661	7.035
0.675	386.	2592.	755.	931.	0.0787	0.0268	2.940	0.658	6.713
0.700	438.	2810.	783.	965.	0.0794	0.0273	2.911	0.654	6.411
0.725	495.	3037.	811.	999.	0.0800	0.0277	2.884	0.651	6.131
0.750	557.	3273.	839.	1034.	0.0805	0.0282	2.858	0.647	5.873
0.775	624.	3519.	867.	1069.	0.0811	0.0286	2.834	0.644	5.638
0.800	696.	3774.	895.	1103.	0.0816	0.0290	2.814	0.642	5.423
0.825	773.	4039.	923.	1137.	0.0821	0.0294	2.797	0.640	5.227
0.850	854.	4312.	951.	1172.	0.0826	0.0297	2.784	0.638	5.048
0.875	941.	4595.	979.	1206.	0.0831	0.0300	2.773	0.638	4.885
0.900	1032.	4887.	1007.	1241.	0.0835	0.0302	2.765	0.638	4.736

STATIC PROP PERFORMANCE

CURTISS 156109A2P3 RUN 1 1400T64 FALLS UP RIG 4
BETA=17.0 AF=109.0 DIA=15.500 N3L=4 TEMPC= 16.0 TEMPR= 520.49 SIGMA=0.9840

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
911.	759.	3841.	0.661	0.1217	0.0561	2.1695	0.6040	5.0606
1006.	1053.	4817.	0.730	0.1252	0.0578	2.1656	0.6114	4.5745
1100.	1374.	5935.	0.798	0.1290	0.0577	2.2359	0.6408	4.3195
1196.	1889.	7215.	0.868	0.1327	0.0617	2.1497	0.6248	3.8195
1226.	1963.	7561.	0.889	0.1323	0.0595	2.2222	0.6450	3.8518

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.675	812.	4030.	755.	931.	0.1224	0.0563	2.173	0.607	4.963
0.700	912.	4387.	783.	965.	0.1239	0.0567	2.185	0.614	4.812
0.725	1022.	4760.	811.	999.	0.1253	0.0572	2.191	0.619	4.659
0.750	1142.	5148.	839.	1034.	0.1267	0.0577	2.194	0.623	4.510
0.775	1272.	5551.	867.	1068.	0.1279	0.0583	2.195	0.626	4.366
0.800	1412.	5970.	895.	1103.	0.1291	0.0588	2.195	0.629	4.229
0.825	1562.	6404.	923.	1137.	0.1302	0.0593	2.195	0.632	4.100
0.850	1722.	6853.	951.	1172.	0.1313	0.0598	2.195	0.634	3.980
0.875	1892.	7317.	979.	1206.	0.1323	0.0603	2.195	0.637	3.867

STATIC PUMP PERFORMANCE

CURVESS 15610932P3 FOR 3 156076% WALLS UP RIG 4

BETA=19.0 VE=109.0 DIA=15.500 TBL=% TAPC= 10.0 TEMPR= 509.69 SIGMA=0.9960

***** RAW DATA POINTS *****

RPM	HP	TH	T/MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
703.	440.	2771.	0.515	0.1475	0.0708	2.0834	0.5384	6.2977
835.	546.	4759.	0.659	0.1549	0.0728	2.1282	0.6633	5.0307
977	325.	7008.	0.731	0.1454	0.0747	2.4815	0.8527	5.2891
1098.	1921.	7530.	0.805	0.1543	0.0811	2.0254	0.6550	3.9198
1203.	2541.	9433.	0.882	0.1715	0.0816	2.1027	0.6949	3.7143
1268.	2821.	5759.	0.915	0.1648	0.0811	2.0317	0.6581	3.4594

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	MP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	457.	2361.	581.	716.	0.1467	0.0655	2.112	0.645	6.266
0.550	523.	3285.	609.	750.	0.1534	0.0692	2.217	0.693	6.278
0.575	602.	3712.	637.	784.	0.1587	0.0697	2.278	0.724	6.170
0.600	692.	4143.	664.	819.	0.1626	0.0705	2.306	0.742	5.988
0.625	794.	4577.	692.	853.	0.1656	0.0716	2.313	0.751	5.765
0.650	908.	5015.	720.	887.	0.1677	0.0728	2.305	0.753	5.524
0.675	1034.	5457.	747.	921.	0.1693	0.0740	2.287	0.751	5.279
0.700	1171.	5902.	775.	955.	0.1702	0.0752	2.264	0.745	5.039
0.725	1321.	6351.	803.	989.	0.1708	0.0763	2.238	0.738	4.808
0.750	1482.	6804.	830.	1023.	0.1709	0.0773	2.210	0.729	4.590
0.775	1656.	7260.	858.	1057.	0.1708	0.0783	2.182	0.720	4.385
0.800	1841.	7719.	886.	1091.	0.1705	0.0791	2.154	0.710	4.194
0.825	2038.	8183.	913.	1125.	0.1699	0.0799	2.127	0.700	4.016
0.850	2246.	8650.	941.	1160.	0.1692	0.0805	2.101	0.690	3.851
0.875	2467.	9120.	969.	1194.	0.1683	0.0811	2.077	0.680	3.697
0.900	2699.	9594.	996.	1228.	0.1674	0.0815	2.053	0.670	3.554

STATIC PROP PERFORMANCE

CURTISS 156103A2P3 RUN 5 160CT64 WALLS UP RIG 4

RETA=19.0 AF=109.0 DIA=15.500 *HLL=4 TEMPC= 19.0 TEMPR= 525.89 SIGMA=0.9630

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
703.	391.	2534.	0.507	0.1343	0.0629	2.1440	0.6283	6.4908
896.	841.	4464.	0.647	0.1463	0.0653	2.2391	0.6834	5.3103
999.	1211.	5712.	0.721	0.1505	0.0679	2.2174	0.6865	4.7168
1163.	1650.	7250.	0.835	0.1417	0.0586	2.4180	0.7265	4.4182
1199.	2276.	8931.	0.865	0.1534	0.0738	2.2140	0.7141	3.9240
1250.	2626.	9658.	0.902	0.1626	0.0751	2.1634	0.6561	3.6778

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	448.	2781.	590.	727.	0.1382	0.0650	2.127	0.531	6.214
0.550	489.	3053.	619.	762.	0.1382	0.0617	2.239	0.664	6.243
0.575	544.	3349.	647.	797.	0.1387	0.0601	2.308	0.686	6.156
0.600	613.	3670.	675.	831.	0.1396	0.0596	2.344	0.699	5.990
0.625	695.	4016.	703.	865.	0.1408	0.0588	2.355	0.705	5.778
0.650	791.	4386.	731.	901.	0.1422	0.0605	2.351	0.707	5.546
0.675	900.	4781.	759.	935.	0.1437	0.0615	2.337	0.707	5.310
0.700	1023.	5200.	787.	970.	0.1454	0.0627	2.320	0.706	5.082
0.725	1160.	5645.	815.	1005.	0.1471	0.0639	2.300	0.704	4.866
0.750	1310.	6114.	843.	1039.	0.1489	0.0652	2.282	0.703	4.666
0.775	1474.	6607.	872.	1074.	0.1507	0.0665	2.265	0.702	4.482
0.800	1652.	7125.	900.	1109.	0.1525	0.0678	2.251	0.701	4.314
0.825	1843.	7668.	928.	1143.	0.1543	0.0689	2.239	0.702	4.161
0.850	2047.	8236.	956.	1173.	0.1561	0.0700	2.230	0.703	4.023
0.875	2266.	8828.	984.	1212.	0.1579	0.0710	2.223	0.705	3.896
0.900	2498.	9445.	1012.	1247.	0.1597	0.0720	2.219	0.708	3.782

STATIC PERFORMANCE

CURTISS 156109.223 401.4 150CT64 VALLEY HP FIG 4

5-TA=21.0 AF=109.0 DIR=15.500 AUL=6 TEMPC= 15.0 TEMPR= 518.69 SIGMA=0.9310

***** FLOW DATA POINTS *****

QPM	HP	TH	TMACH	RCT	PCP	PCT/CP	RFM	QTH/HP
704.	465.	3232.	0.514	0.1722	0.0732	2.3515	0.7787	7.0581
900.	1013.	5423.	0.654	0.1761	0.0777	2.2673	0.7592	5.3534
1000.	1485.	6952.	0.727	0.1828	0.0830	2.2015	0.7512	4.6783
1097.	2060.	8665.	0.797	0.1834	0.0872	2.1714	0.7540	4.2063
1200.	2917.	10544.	0.872	0.1944	0.0943	2.0602	0.7248	3.6483
1242.	3315.	11213.	0.903	0.1912	0.0967	1.9769	0.6898	3.3825

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	403.	3394.	586.	722.	0.1710	0.0731	2.3339	0.772	6.880
0.550	551.	3755.	614.	757.	0.1724	0.0711	2.425	0.804	6.809
0.575	628.	4139.	642.	791.	0.1738	0.0708	2.456	0.817	6.595
0.600	722.	4546.	670.	826.	0.1754	0.0717	2.447	0.818	6.299
0.625	834.	4978.	698.	856.	0.1770	0.0733	2.415	0.811	5.967
0.650	965.	5432.	726.	895.	0.1786	0.0753	2.370	0.799	5.631
0.675	1113.	5911.	754.	929.	0.1802	0.0776	2.321	0.786	5.309
0.700	1280.	6413.	782.	963.	0.1817	0.0800	2.271	0.773	5.010
0.725	1465.	6939.	810.	993.	0.1833	0.0824	2.224	0.760	4.737
0.750	1668.	7498.	838.	1032.	0.1849	0.0848	2.181	0.748	4.490
0.775	1835.	8061.	866.	1057.	0.1864	0.0870	2.142	0.738	4.267
0.800	2128.	8658.	893.	1101.	0.1879	0.0891	2.108	0.729	4.068
0.825	2386.	9278.	921.	1135.	0.1893	0.0911	2.079	0.721	3.889
0.850	2661.	9922.	949.	1170.	0.1907	0.0929	2.052	0.715	3.728
0.875	2955.	10589.	977.	1204.	0.1921	0.0946	2.031	0.710	3.594
0.900	3266.	11280.	1005.	1239.	0.1934	0.0961	2.013	0.706	3.453

STATIC PROP PERFORMANCE

CURTISS 156105A2P3 RUN 5 15OCT64 FALLS UP RIG 4

BETA=23.0 AF=109.6 DIA=15.500 NBL=4 TEMPC= 16.0 TEMPR= 520.49 SIGMA=0.9740

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	KCT	RCP	PCT/CP	RFM	RTH/HP
710.	593.	3942.	0.515	0.2057	0.0926	2.2210	0.8038	6.6476
910.	1342.	6468.	0.660	0.2054	0.0995	2.0639	0.7465	4.8197
995.	1839.	8049.	0.722	0.2138	0.1043	2.0494	0.7562	4.3768
1102.	2704.	10431.	0.799	0.2259	0.1129	2.0005	0.7587	3.8576
1195.	3673.	11786.	0.867	0.2171	0.1203	1.8045	0.6709	3.2088

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	624.	4048.	587.	724.	0.2032	0.0920	2.210	0.795	6.489
0.550	702.	4481.	615.	758.	0.2050	0.0900	2.278	0.823	6.385
0.575	803.	4938.	643.	793.	0.2067	0.0901	2.295	0.833	6.152
0.600	926.	5417.	671.	827.	0.2082	0.0915	2.277	0.829	5.850
0.625	1072.	5920.	699.	862.	0.2097	0.0937	2.239	0.818	5.521
0.650	1241.	6446.	727.	896.	0.2111	0.0964	2.190	0.803	5.193
0.675	1433.	6994.	755.	931.	0.2124	0.0994	2.138	0.786	4.882
0.700	1647.	7567.	783.	965.	0.2137	0.1024	2.086	0.770	4.594
0.725	1884.	8162.	811.	999.	0.2149	0.1055	2.037	0.754	4.332
0.750	2144.	8780.	839.	1034.	0.2160	0.1084	1.992	0.739	4.095
0.775	2427.	9422.	867.	1068.	0.2171	0.1112	1.952	0.726	3.883
0.800	2732.	10086.	895.	1103.	0.2181	0.1138	1.916	0.714	3.692
0.825	3060.	10774.	923.	1137.	0.2191	0.1162	1.884	0.704	3.521
0.950	3411.	11445.	951.	1172.	0.2200	0.1185	1.857	0.695	3.367

STATIC PROP PERFORMANCE

XC-142A(SK55808-7) - CR. NO 72 - ALLS UP

DETA= J. AF= 97.0 DIA=15.00 CHL=4 TEMPC= 26.0 TEMPR= 539.40 SIGMA=0.9440

***** RAW DATA PLINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/MP
692.	94.	465.	1.529	C.0195	C.0113	1.7289	0.1924	4.9574
818.	160.	615.	1.625	C.0184	C.0116	1.5846	0.1714	3.8438
929.	241.	574.	0.710	C.0157	C.0119	1.3172	0.1317	2.8133
1040.	368.	742.	0.794	C.0137	C.0130	1.0568	0.0988	2.0163
1074.	405.	763.	0.820	C.0132	C.0130	1.0197	0.0936	1.8840
1100.	441.	594.	0.840	C.0098	C.0131	0.7467	0.0590	1.3469
1129.	475.	382.	0.862	C.0060	C.0131	0.4576	0.0283	0.8042
1156.	528.	297.	0.883	C.0044	C.0136	0.3277	0.0174	0.5625
1187.	594.	233.	0.907	C.0033	C.0141	0.2347	0.0108	0.3923
1215.	662.	106.	0.928	C.0014	C.0146	0.0980	0.0030	0.1601
1245.	735.	21.	0.951	C.0003	C.0151	0.0179	0.0002	0.0286

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP	ERROR-	MP
0.725	264.	709.	825.	945.	C.0157	C.0123	1.282	0.128	2.680		0
0.750	298.	713.	853.	982.	C.0148	C.0125	1.184	0.115	2.392		0
0.775	334.	711.	882.	1015.	C.0138	C.0127	1.087	0.102	2.126		0
0.800	372.	705.	910.	1047.	C.0128	C.0128	0.959	0.090	1.893		0
0.825	415.	674.	939.	1080.	C.0115	C.0130	0.885	0.076	1.625		0
0.850	455.	517.	967.	1113.	C.0083	C.0131	0.638	0.046	1.137		0
0.875	508.	340.	956.	1145.	C.0052	C.0134	0.386	0.022	0.669		0
0.900	574.	223.	1024.	1178.	C.0032	C.0139	0.231	0.010	0.389		0
0.925	649.	117.	1053.	1211.	C.0016	C.0145	0.110	0.004	0.181		0
0.950	734.	34.	1081.	1244.	C.0004	C.0151	0.029	0.000	0.047		0

STATIC PROP PER

XC-142A(SK55868-L) RUN NO 73 WALLS UP

BETA= 2.0 AF= 57.8 DIA=16.6CC NBL=4 TEMPC= 22.0 TEMPA= 531.29 SIGMA=0.9560

**** RAW DATA POINTS ****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
696.	105.	878.	C.535	C.0362	0.0124	2.9331	0.4455	8.3619
815.	174.	1119.	C.627	C.0337	0.0127	2.6415	0.3868	6.4310
816.	174.	1151.	C.627	C.0346	0.0127	2.7204	0.4035	6.6149
930.	267.	1381.	C.715	C.0319	0.0132	2.4242	0.3456	5.1723
1043.	392.	1642.	C.802	C.0302	0.0137	2.2018	0.3052	4.1888
1069.	419.	1674.	C.822	C.0293	0.0136	2.1524	0.2939	3.9952
1103.	478.	1778.	C.848	C.0292	0.0141	2.0677	0.2820	3.7197
1132.	525.	1862.	C.870	C.0290	0.0144	2.0234	0.2752	3.5467
1155.	562.	1883.	C.888	C.0282	0.0145	1.9593	0.2614	3.3505
1187.	634.	1946.	C.913	C.0279	0.0150	1.8550	0.2472	3.1009
1214.	652.	2029.	C.933	C.0275	0.0153	1.7939	0.2375	2.9321
1244.	766.	2071.	C.957	C.0268	0.0158	1.6950	0.2212	2.7037
1271.	849.	2071.	C.977	C.0256	0.0164	1.5625	0.1996	2.4393
1295.	950.	2050.	C.999	C.0243	0.0172	1.4127	0.1757	2.1579
1329.	1058.	2008.	1.022	C.0227	0.0179	1.2712	0.1529	1.8979
1358.	1182.	1946.	1.044	C.0211	0.0187	1.1268	0.1306	1.6464
1392.	1282.	1904.	1.070	C.0196	0.0189	1.0419	0.1165	1.4852

**** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	277.	1408.	820.	943.	0.0317	0.0131	2.415	0.343	5.082		0
0.750	311.	1480.	848.	975.	0.0311	0.0133	2.340	0.329	4.760		0
0.775	346.	1553.	876.	1008.	0.0306	0.0135	2.267	0.316	4.464		0
0.800	388.	1626.	904.	1040.	0.0300	0.0137	2.198	0.304	4.193		0
0.825	430.	1703.	933.	1073.	0.0296	0.0138	2.140	0.294	3.958		0
0.850	478.	1781.	961.	1105.	0.0291	0.0140	2.077	0.283	3.728		0
0.875	535.	1861.	989.	1138.	0.0287	0.0144	1.955	0.270	3.479		0
0.900	596.	1932.	1017.	1170.	0.0282	0.0147	1.912	0.256	3.241		0
0.925	666.	2011.	1046.	1203.	0.0276	0.0152	1.822	0.242	3.006		0
0.950	746.	2057.	1074.	1235.	0.0269	0.0157	1.716	0.225	2.756		0
0.975	840.	2074.	1102.	1268.	0.0258	0.0163	1.577	0.202	2.468		0
1.000	960.	2041.	1130.	1300.	0.0241	0.0173	1.394	0.173	2.127		0

STATIC PROP PERFORMANCE

XC-142A(SK55368-C) FAN NO 74 CALLS UP

WETA= 4.0 RE= 97.3 DIA=15.410 HBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9510

***** RAW DATA PLANTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
698.	125.	1198.	0.535	0.0492	0.0146	3.3714	0.5965	9.5840
807.	155.	1555.	0.618	0.0477	0.0147	3.2432	0.5654	7.9744
924.	259.	1576.	0.708	0.0463	0.0150	3.0775	0.5283	6.6097
1042.	429.	2396.	0.795	0.0441	0.0154	2.8662	0.4804	5.4579
1072.	482.	2522.	0.822	0.0439	0.0155	2.8268	0.4725	5.2324
1097.	520.	2628.	0.841	0.0437	0.0156	2.7941	0.4659	5.0538
1130.	584.	2754.	0.866	0.0431	0.0161	2.6856	0.4450	4.7158
1162.	641.	2859.	0.890	0.0423	0.0162	2.6120	0.4288	4.4602
1192.	710.	3027.	0.913	0.0426	0.0166	2.5612	0.4218	4.2634
1221.	782.	3153.	0.936	0.0423	0.0170	2.4811	0.4071	4.0320
1246.	842.	3237.	0.955	0.0417	0.0173	2.4141	0.3933	3.8444
1271.	924.	3279.	0.974	0.0406	0.0179	2.2731	0.3654	3.5487
1297.	1001.	3321.	0.994	0.0395	0.0182	2.1686	0.3438	3.3177
1338.	1171.	3384.	1.025	0.0378	0.0194	1.9487	0.3023	2.8898
1359.	1249.	3405.	1.041	0.0369	0.0197	1.8672	0.2861	2.7262
1393.	1446.	3573.	1.068	0.0368	0.0212	1.7347	0.2656	2.4710

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	323.	2248.	822.	946.	0.0457	0.0151	3.022	0.516	5.339		0
0.750	361.	2168.	851.	979.	0.0453	0.0153	2.967	0.504	6.015		0
0.775	401.	2291.	879.	1011.	0.0448	0.0154	2.914	0.492	5.718		0
0.800	443.	2415.	907.	1044.	0.0443	0.0154	2.868	0.482	5.452		0
0.825	490.	2535.	936.	1077.	0.0438	0.0156	2.814	0.470	5.186		0
0.850	543.	2660.	964.	1109.	0.0433	0.0158	2.746	0.456	4.912		0
0.875	603.	2794.	992.	1142.	0.0428	0.0161	2.668	0.441	4.637		0
0.900	671.	2936.	1021.	1174.	0.0426	0.0164	2.589	0.426	4.375		0
0.925	744.	3085.	1049.	1207.	0.0423	0.0168	2.523	0.414	4.148		0
0.950	830.	3215.	1077.	1240.	0.0418	0.0173	2.420	0.395	3.873		0
0.975	924.	3282.	1106.	1272.	0.0405	0.0178	2.278	0.366	3.553		0
1.000	1030.	3313.	1134.	1305.	0.0389	0.0184	2.115	0.333	3.217		0

STATIC PRCP PERFORMANCE

XC-142A(SK55868-G) RUN NU 62 WALLS UP

BETA= 6.0 AF= 97.8 DIA=16.600 NHL=4 TE4PC= 31.0 TEMPR= 547.49 SIGMA=1.9230

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
700.	149.	1647.	C.53C	0.0672	0.0172	3.8396	0.9067	11.0537
813.	257.	2188.	C.616	C.0662	0.0190	3.4883	0.7161	8.5136
930.	392.	2795.	C.704	0.0646	0.0193	3.3419	0.6778	7.1301
1050.	582.	3575.	C.795	0.0648	0.0199	3.2505	0.6604	6.1426
1075.	627.	3707.	C.814	0.0641	0.0200	3.2031	0.6473	5.9123
1097.	671.	3813.	C.831	0.0633	0.0202	3.1417	0.6310	5.6826
1125.	734.	3943.	C.855	C.0618	0.0202	3.0566	0.6066	5.3719
1156.	807.	4140.	C.876	0.0619	C.0207	2.9888	0.5936	5.1301
1189.	878.	4400.	C.901	C.0622	0.0207	3.0030	0.5977	5.0114
1221.	956.	4550.	C.925	C.0610	0.0208	2.9287	0.5773	4.7594
1245.	1025.	4745.	C.943	C.0612	0.0211	2.9046	0.5734	4.6293
1278.	1132.	4940.	C.968	0.0605	0.0215	2.8107	0.5515	4.3640
1304.	1252.	5025.	C.988	C.0571	0.0224	2.6377	0.5116	4.0136
1335.	1350.	5112.	1.011	C.0573	0.0232	2.4744	0.4728	3.6777
1361.	1530.	5210.	1.031	0.0547	0.0241	2.3357	0.4420	3.4052
1388.	1668.	5265.	1.051	C.0540	0.0247	2.2080	0.4118	3.1565

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	434.	2572.	832.	997.	0.0649	0.0196	3.301	0.671	6.844		0
0.750	484.	3168.	861.	990.	0.0646	0.0198	3.263	0.662	6.539		0
0.775	538.	3370.	889.	1023.	0.0644	0.0199	3.231	0.654	6.266		0
0.800	593.	3571.	918.	1056.	0.0640	0.0200	3.206	0.647	6.024		0
0.825	655.	3777.	947.	1089.	0.0637	0.0201	3.164	0.637	5.765		0
0.850	724.	3929.	975.	1122.	0.0624	0.0203	3.070	0.612	5.428		0
0.875	799.	4135.	1004.	1155.	0.0620	0.0206	3.013	0.599	5.176		0
0.900	877.	4351.	1033.	1198.	0.0616	0.0207	2.970	0.598	4.960		0
0.925	954.	4591.	1061.	1221.	0.0615	0.0208	2.962	0.586	4.813		0
0.950	1054.	4793.	1090.	1254.	0.0609	0.0212	2.875	0.566	4.549		0
0.975	1174.	4965.	1119.	1287.	0.0599	0.0218	2.742	0.536	4.227		0
1.000	1321.	5084.	1147.	1320.	0.0583	0.0228	2.561	0.494	3.849		0

STATIC PROP PERFORMANCE

AC-142A(SAS566H-0) PUN NO 66 WALLS UP

REF A= 3.0 AF= 97.0 CL=15.6 CUBL=4 TRIPC= 25.0 TEMPR= 538.45 SIGMA=0.9400

***** RAW DATA PLINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
697.	235.	1354.	C.532	C.0803	0.0275	2.9357	C.6660	8.3574
809.	373.	2723.	C.618	C.0826	0.0279	2.9546	C.6775	7.2466
928.	560.	3527.	C.705	C.0819	0.0278	2.9456	C.6726	6.2982
1041.	808.	4520.	C.795	C.0834	C.0284	2.9349	C.6763	5.5941
1071.	889.	4858.	C.818	C.0847	0.0287	2.9495	C.6849	5.4646
1097.	959.	5155.	C.838	C.0856	0.0288	2.9718	C.6740	5.3754
1126.	1039.	5386.	C.860	C.0849	0.0289	2.9417	0.6841	5.1838
1160.	1139.	5723.	C.886	C.0850	0.0289	2.9374	0.6835	5.0246
1187.	1236.	6040.	C.907	C.0857	0.0293	2.9233	0.6829	4.8867
1215.	1327.	6294.	C.928	C.0852	0.0294	2.8999	0.6756	4.7359
1242.	1427.	6526.	C.949	C.0846	0.0295	2.8626	0.6643	4.5732
1275.	1572.	6758.	C.974	C.0831	0.0301	2.7624	C.6355	4.2990
1303.	1712.	7075.	C.995	C.0833	0.0307	2.7138	C.6251	4.1326
1335.	1883.	7159.	1.020	C.0803	0.0314	2.5580	0.5784	3.8019
1361.	2017.	7244.	1.040	C.0782	0.0317	2.4634	C.5497	3.5915
1374.	2091.	7331.	1.049	C.0773	0.0320	2.4178	0.5365	3.4916

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	606.	3724.	825.	949.	0.0826	0.0281	2.938	0.674	6.142		0
0.750	675.	4010.	853.	982.	0.0831	0.0283	2.938	0.676	5.938		0
0.775	749.	4309.	882.	1015.	0.0837	0.0284	2.942	0.679	5.752		0
0.800	825.	4603.	910.	1047.	0.0839	0.0285	2.943	0.680	5.576		0
0.825	912.	4940.	939.	1080.	0.0846	0.0287	2.950	0.685	5.419		0
0.850	1002.	5279.	967.	1113.	0.0852	0.0288	2.956	0.689	5.271		0
0.875	1058.	5599.	996.	1145.	0.0853	0.0290	2.944	0.686	5.100		0
0.900	1203.	5923.	1024.	1178.	0.0853	0.0292	2.925	0.682	4.925		0
0.925	1315.	6255.	1053.	1211.	0.0852	0.0294	2.903	0.676	4.756		0
0.950	1437.	6553.	1081.	1244.	0.0847	0.0296	2.859	0.664	4.561		0
0.975	1583.	6827.	1110.	1277.	0.0838	0.0302	2.775	0.641	4.314		0
1.000	1744.	7050.	1138.	1309.	0.0822	0.0308	2.667	0.610	4.042		0

STATIC PROCP PERFORMANCE

XC-142A(SK55868-CA) RUN NO 63 WALLS UP

BETA=10.0 AF= 97.8 DIA=16.600 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=1.9360

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
703.	329.	2540.	C.536	C.1068	C.0376	2.8430	C.7414	8.0243
814.	522.	3462.	C.621	C.1045	C.0384	2.7208	C.7017	6.6322
930.	806.	4745.	C.709	C.1097	C.0397	2.7593	C.7292	5.8871
1043.	1164.	6015.	C.795	C.1135	C.0407	2.7163	C.7207	5.1675
1070.	1268.	6370.	C.816	C.1112	C.0411	2.7090	C.7210	5.0237
1097.	1385.	6755.	C.836	C.1122	C.0416	2.6964	C.7208	4.8773
1127.	1520.	7160.	C.859	C.1127	C.0421	2.6755	C.7167	4.7105
1158.	1660.	7555.	C.883	C.1126	C.0424	2.6561	C.7113	4.5512
1186.	1825.	8080.	C.904	C.1148	C.0434	2.6463	C.7156	4.4274
1213.	1973.	8510.	C.925	C.1156	C.0439	2.6368	C.7155	4.3132
1246.	2175.	915.	C.950	C.1161	C.0447	2.5980	C.7064	4.1372
1274.	2362.	9415.	C.971	C.1160	C.0453	2.5593	C.6955	3.9860
1299.	2570.	9680.	C.990	C.1147	C.0465	2.4658	C.6664	3.7665
1328.	2760.	9880.	1.013	C.1120	C.0467	2.3958	C.6398	3.5797

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	865.	4916.	826.	951.	0.1087	0.0399	2.722	C.716	5.681		0
0.750	968.	5296.	855.	984.	C.1094	C.0403	2.714	C.716	5.474		0
0.775	1077.	5694.	883.	1016.	C.1102	0.0407	2.708	C.717	5.287		0
0.800	1193.	6128.	912.	1049.	C.1113	C.0410	2.716	C.723	5.136		0
0.825	1319.	6533.	940.	1082.	C.1116	C.0413	2.700	C.720	4.952		0
0.850	1460.	6975.	969.	1115.	C.1122	0.0418	2.684	C.717	4.778		0
0.875	1616.	7445.	997.	1148.	C.1130	0.0424	2.664	C.715	4.606		0
0.900	1787.	7955.	1026.	1180.	C.1142	0.0431	2.649	C.714	4.453		0
0.925	1971.	8525.	1054.	1213.	C.1158	C.0438	2.644	C.718	4.325		0
0.950	2180.	9119.	1083.	1246.	C.1162	C.0447	2.598	C.707	4.138		0
0.975	2403.	9446.	1111.	1279.	C.1155	C.0456	2.533	C.687	3.930		0
1.000	2642.	9769.	1140.	1311.	C.1135	C.0465	2.444	C.657	3.697		0

STATIC PROP PERFORMANCE

AC-119A(S)50500-01 RUN NO 67 WALLS UP

BETA=12.0 AR= 97.1 DIA=14.00 URL=4 TEMPR= 27.0 TEMPR= 560.29 SIGMA=0.3430

***** RAW DATA PLOTS *****

RPM	HP	TH	MACH	RCT	CT	RCT/CP	RFM	RTM/HP
697.	432.	3222.	C.531	C.1326	C.0506	2.6199	C.7613	7.4583
818.	714.	4419.	C.624	C.1317	C.0517	2.5457	C.7373	6.1751
928.	1087.	5809.	C.708	C.1348	C.0540	2.4994	C.7324	5.3441
1040.	1608.	7547.	C.793	C.1355	C.0567	2.4600	C.7332	4.6934
1073.	1804.	8056.	C.818	C.1399	C.0579	2.4149	C.7207	4.4656
1101.	2028.	8777.	C.840	C.1447	C.0603	2.4015	C.7291	4.3279
1128.	2209.	9243.	C.860	C.1452	C.0611	2.3787	C.7234	4.1842
1158.	2450.	9875.	C.883	C.1473	C.0626	2.3532	C.7207	4.0322
1161.	2442.	9837.	C.885	C.1459	C.0619	2.3570	C.7184	4.0283
1186.	2686.	10557.	C.904	C.1500	C.0639	2.3492	C.7262	3.9304
1214.	2916.	11087.	C.926	C.1504	C.0646	2.3262	C.7199	3.8021
1241.	3149.	11660.	C.946	C.1514	C.0654	2.3158	C.7190	3.7028
1272.	3443.	12254.	C.970	C.1514	C.0664	2.2816	C.7085	3.5591
1300.	3694.	12508.	C.991	C.1480	C.0668	2.2160	C.6802	3.3824

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1184.	6124.	826.	951.	C.1354	C.0546	2.479	C.728	5.174		0
0.750	1337.	6628.	855.	984.	C.1370	C.0557	2.457	C.726	4.957		0
0.775	1504.	7163.	883.	1016.	C.1386	C.0568	2.439	C.725	4.762		0
C.800	1677.	7716.	912.	1049.	C.1401	C.0576	2.433	C.727	4.601		0
0.825	1876.	8312.	940.	1082.	C.1419	C.0587	2.416	C.726	4.431		0
C.850	2113.	8977.	969.	1115.	C.1444	C.0605	2.386	C.724	4.247		0
0.875	2361.	9656.	997.	1148.	C.1466	C.0620	2.366	C.723	4.090		0
C.900	2626.	10357.	1026.	1180.	C.1486	C.0633	2.346	C.722	3.944		0
C.925	2909.	11097.	1054.	1213.	C.1508	C.0646	2.332	C.723	3.815		0
0.950	3203.	11767.	1083.	1246.	C.1515	C.0657	2.306	C.717	3.673		0
C.975	3501.	12277.	1111.	1279.	C.1501	C.0664	2.260	C.699	3.507		0

STATIC PROCP PERFORMANCE

XC-142A1SK55868-C1 RUN NO 64 WALLS UP

BETA=14.0 AF= 97.8 DIA=16.600 NRL=4 TEMPC= 26.0 TFA PR= 538.49 SIGMA=0.3390

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
699.	570.	3720.	0.534	0.1522	0.0662	2.2991	0.7158	6.5263
817.	562.	5230.	0.624	0.1566	0.0700	2.2385	0.7070	5.4366
934.	1485.	6955.	0.713	0.1594	0.0723	2.2046	0.7023	4.6835
1004.	1548.	8265.	0.767	0.1639	0.0764	2.1468	0.6936	4.2428
1040.	2241.	5358.	0.794	0.1674	0.0790	2.1185	0.6917	4.0419
1074.	2538.	9770.	0.820	0.1693	0.0813	2.0836	0.6842	3.8495
1097.	2870.	10620.	0.838	0.1764	0.0841	2.0969	0.7028	3.7929
1106.	2870.	10450.	0.845	0.1741	0.0841	2.0684	0.6886	3.7108
1131.	3113.	11180.	0.864	0.1747	0.0854	2.0471	0.6828	3.5914
1152.	3392.	11770.	0.880	0.1773	0.0880	2.0146	0.6769	3.4699

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1595.	7271.	825.	949.	0.1613	0.0742	2.175	0.697	4.547		0
0.750	1814.	7876.	853.	982.	0.1633	0.0760	2.149	0.693	4.342		0
0.775	2035.	8497.	882.	1015.	0.1650	0.0773	2.136	0.692	4.176		0
0.800	2304.	9215.	910.	1047.	0.1679	0.0795	2.111	0.690	4.000		0
0.825	2613.	10037.	939.	1080.	0.1720	0.0823	2.091	0.692	3.841		0
0.850	2942.	10933.	967.	1113.	0.1749	0.0847	2.065	0.689	3.683		0
0.875	3306.	11598.	996.	1146.	0.1767	0.0872	2.026	0.679	3.508		0

STATIC PUMP PERFORMANCE

AC-142(SK53500-1) 1000 RPM 6000 LBS UP

BEIA=16.0 AF= 97.8 CIA=15.000 TOL=4 TEMPC= 23.0 TEMPR= 542.00 SIGMA=3.9390

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	KCT	RCP	KCT/CP	RFM	WTH/HP
655.	356.	4142.	C.529	C.1714	0.C822	2.0845	0.6887	5.9511
756.	528.	4995.	C.575	C.1747	0.C852	2.0518	0.6840	5.3825
838.	1160.	5770.	C.615	C.1767	0.C872	2.0255	0.6794	4.9741
813.	1178.	5770.	C.619	C.1745	0.0870	2.0069	0.6690	4.8941
835.	1305.	6260.	C.636	C.1795	0.C889	2.0186	0.6825	4.7969
872.	1493.	6770.	C.664	C.1780	0.C893	1.9928	0.6709	4.5345
927.	1838.	7790.	C.706	C.1812	0.C915	1.9801	0.6727	4.2383
1001.	2442.	9220.	C.762	C.1840	0.C966	1.9047	0.6519	3.7756
1045.	2948.	10540.	C.795	C.1930	0.1025	1.8830	0.6600	3.5753
1064.	3190.	11170.	C.810	C.1955	0.1050	1.8608	0.6565	3.4702

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	2021.	8216.	828.	952.	0.1811	0.0928	1.951	0.663	4.066		0
0.750	2312.	8551.	856.	985.	0.1843	0.0959	1.922	0.659	3.871		0
0.775	2645.	9769.	885.	1018.	0.1884	0.0994	1.895	0.656	3.694		0
0.800	3019.	10672.	913.	1051.	0.1932	0.1032	1.872	0.657	3.535		0

STATIC PROP PERFORMANCE

XC-142A(SK55868-C) RUN NO 65 WALLS UP

BETA=18.0 AF= 97.8 CIA=16.600 NDL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9520

***** RAW DATA PLINIS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
698.	915.	4748.	C.535	C.1949	0.11067	1.8254	0.6430	5.1891
815.	1563.	6554.	C.625	C.1973	0.11145	1.7223	0.6124	4.1932
846.	1773.	7111.	C.648	C.1983	0.11162	1.7076	0.6069	4.0051
873.	1966.	7563.	C.669	C.1984	0.11172	1.6925	0.6016	3.8469
925.	2406.	8634.	C.709	C.2017	0.1206	1.6729	0.5996	3.5885
970.	2858.	9664.	C.743	C.2053	0.1242	1.6530	0.5977	3.3814

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
C.725	2614.	9109.	822.	946.	0.2035	0.1225	1.661	0.598	3.484		0

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 4 WALLS UP 13 JULY 65

BEIA= 8.5 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9510

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RPM	RM/MP
886.	136.	1240.	0.531	0.0840	0.0263	3.1883	0.7372	9.1176
1045.	236.	1788.	0.626	0.0870	0.0278	3.1248	0.7356	7.5763
1181.	345.	2303.	0.708	0.0878	0.0282	3.1115	0.7356	6.6754
1327.	508.	2986.	0.795	0.0901	0.0293	3.0785	0.7375	5.8780
1335.	528.	3049.	0.800	0.0909	0.0299	3.0426	0.7321	5.7746
1362.	557.	3155.	0.816	0.0904	0.0297	3.0449	0.7305	5.6643
1401.	615.	3344.	0.839	0.0905	0.0301	3.0066	0.7220	5.4374
1442.	774.	3638.	0.864	0.0930	0.0357	2.6077	0.6346	4.5819

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, & PCINT 2ND ORDER, TH, &

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	IM/MP
0.550	153.	1342.	625.	918.	0.0846	0.0266	3.185	0.739	8.791
0.575	175.	1476.	653.	960.	0.0852	0.0267	3.189	0.743	8.419
0.600	201.	1619.	682.	1001.	0.0858	0.0270	3.178	0.743	8.042
0.625	230.	1769.	710.	1043.	0.0864	0.0273	3.161	0.741	7.677
0.650	263.	1926.	738.	1085.	0.0870	0.0277	3.140	0.739	7.334
0.675	298.	2091.	767.	1127.	0.0876	0.0281	3.120	0.737	7.016
0.700	337.	2264.	795.	1168.	0.0882	0.0284	3.101	0.735	6.725
0.725	378.	2444.	824.	1210.	0.0887	0.0288	3.085	0.733	6.459
0.750	423.	2632.	852.	1252.	0.0893	0.0291	3.072	0.732	6.217
0.775	471.	2828.	880.	1294.	0.0898	0.0293	3.062	0.732	5.998
0.800	511.	3025.	909.	1335.	0.0902	0.0289	3.119	0.747	5.919
0.825	598.	3247.	937.	1377.	0.0910	0.0309	2.950	0.710	5.428
0.850	704.	3481.	966.	1419.	0.0919	0.0332	2.770	0.670	4.948

STATIC PROCP PERFORMANCE

CURTISS CALIB RUN NO 5 WALLS UP 13 JUL 65

BETA= 8.5 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGPA=0.9210

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCF	RCY/CP	RFM	RTM/MP
834.	121.	1115.	0.500	0.0852	0.0281	3.0332	0.7065	9.2149
902.	151.	1304.	0.540	0.0852	0.0277	3.0743	0.7160	8.6358
991.	202.	1596.	0.594	0.0865	0.0280	3.0942	0.7261	7.9109
1097.	279.	1935.	0.657	0.0855	0.0285	3.0028	0.7005	6.9355
1202.	371.	2334.	0.720	0.0859	0.0288	2.9845	0.6979	6.2911
1308.	480.	2981.	0.784	0.0895	0.0289	3.0985	0.7397	6.0021
1395.	600.	3260.	0.836	0.0890	0.0298	2.9915	0.7123	5.4333

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	139.	1233.	596.	876.	0.0853	0.0278	3.069	0.715	8.873
0.550	160.	1346.	625.	918.	0.0849	0.0278	3.053	0.710	8.426
0.575	183.	1469.	653.	960.	0.0848	0.0279	3.038	0.706	8.049
0.600	209.	1601.	682.	1001.	0.0849	0.0281	3.025	0.703	7.654
0.625	238.	1743.	710.	1043.	0.0851	0.0282	3.017	0.702	7.328
0.650	269.	1894.	738.	1085.	0.0855	0.0284	3.014	0.703	7.039
0.675	301.	2056.	767.	1127.	0.0861	0.0283	3.039	0.712	6.835
0.700	338.	2222.	795.	1168.	0.0865	0.0286	3.029	0.711	6.569
0.725	379.	2397.	824.	1210.	0.0870	0.0288	3.021	0.711	6.327
0.750	423.	2580.	852.	1252.	0.0875	0.0290	3.017	0.712	6.106
0.775	469.	2772.	880.	1294.	0.0881	0.0292	3.015	0.714	5.907
0.800	519.	2973.	909.	1335.	0.0886	0.0294	3.017	0.717	5.725
0.825	572.	3183.	937.	1377.	0.0892	0.0295	3.022	0.721	5.560

STATIC PDCP PERFORMANCE

CURTISS CALIB RUN NO 1 WALLS UP 12 JULY 65 R 19 04
BETA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
574.	181.	1326.	0.344	0.2139	0.1289	1.6597	0.6125	7.3260
577.	153.	1242.	0.346	0.1983	0.1143	1.7352	0.6196	7.6196
795.	409.	2442.	0.477	0.2054	0.1096	1.8734	0.6775	5.9707
797.	415.	2464.	0.478	0.2062	0.1104	1.8677	0.6767	5.9373
1010.	895.	4070.	0.606	0.2121	0.1157	1.8332	0.6737	4.5989
1025.	934.	4249.	0.615	0.2149	0.1168	1.8404	0.6809	4.5493
1040.	973.	4391.	0.624	0.2158	0.1165	1.8524	0.6866	4.5120
1173.	1464.	5650.	0.704	0.2182	0.1222	1.7867	0.6661	3.8593
1196.	1592.	5965.	0.718	0.2216	0.1253	1.7687	0.6645	3.7469
1395.	2818.	8475.	0.837	0.2315	0.1398	1.6558	0.6357	3.0075
1401.	2872.	8542.	0.841	0.2313	0.1406	1.6446	0.6312	2.9742
1403.	2881.	8520.	0.842	0.2301	0.1405	1.6376	0.6268	2.9573

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINTS 2ND ORDER, TH, 5

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.525	560.	3004.	595.	875.	0.2086	0.1127	1.851	0.675	5.360
0.550	652.	3323.	624.	916.	0.2103	0.1140	1.844	0.675	5.099
0.575	752.	3659.	652.	958.	0.2119	0.1151	1.841	0.676	4.869
0.600	860.	4014.	681.	1000.	0.2134	0.1159	1.841	0.679	4.666
0.625	976.	4377.	709.	1041.	0.2145	0.1163	1.844	0.682	4.486
0.650	1109.	4764.	737.	1083.	0.2158	0.1176	1.836	0.681	4.294
0.675	1265.	5176.	766.	1125.	0.2175	0.1197	1.816	0.676	4.091
0.700	1443.	5613.	794.	1166.	0.2193	0.1225	1.770	0.669	3.889
0.725	1643.	6070.	822.	1208.	0.2211	0.1255	1.761	0.661	3.694
0.750	1867.	6554.	851.	1250.	0.2230	0.1288	1.732	0.653	3.511
0.775	2112.	7063.	879.	1291.	0.2251	0.1321	1.704	0.645	3.344
0.800	2381.	7600.	907.	1333.	0.2273	0.1354	1.679	0.639	3.192
0.825	2672.	8162.	936.	1375.	0.2296	0.1385	1.658	0.634	3.055

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 2 WALLS UP 13 JULY 65 R19 04

BEIA=21.1 AF= 93.0 CIA=13.600 NBL=4 TEMPC= 20.5 TEMPR= 528.59 SIGPA=0.9470

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	TH/HP
604.	161.	1365.	0.365	0.1989	0.0984	2.0211	0.7192	8.4783
812.	436.	2543.	0.590	0.2050	0.1097	1.8692	0.6754	5.8326
879.	572.	3082.	0.531	0.2120	0.1134	1.8693	0.6868	5.3881
1003.	861.	4000.	0.606	0.2113	0.1149	1.8391	0.6747	4.6458
1180.	1451.	5708.	0.712	0.2179	0.1189	1.8321	0.6824	3.9338
1200.	1593.	5956.	0.724	0.2198	0.1241	1.7708	0.6625	3.7389
1325.	2336.	7487.	0.800	0.2267	0.1352	1.6761	0.6368	3.2051
1355.	2515.	7817.	0.818	0.2263	0.1361	1.6622	0.6310	3.1082
1401.	2861.	8438.	0.846	0.2285	0.1401	1.6308	0.6221	2.9493
1444.	3247.	9017.	0.872	0.2298	0.1452	1.5827	0.6055	2.7779

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINAT 2ND ORGCR, TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	541.	2966.	592.	870.	0.2084	0.1108	1.882	0.686	5.482
0.550	635.	3278.	620.	911.	0.2099	0.1131	1.856	0.679	5.162
0.575	739.	3608.	648.	952.	0.2114	0.1152	1.835	0.673	4.883
0.600	852.	3954.	676.	994.	0.2128	0.1169	1.820	0.670	4.640
0.625	921.	4284.	705.	1035.	0.2125	0.1118	1.900	0.599	4.650
0.650	1065.	4672.	733.	1077.	0.2142	0.1149	1.865	0.689	4.388
0.675	1226.	5082.	761.	1118.	0.2161	0.1182	1.829	0.678	4.144
0.700	1407.	5515.	789.	1159.	0.2180	0.1215	1.794	0.669	3.921
0.725	1581.	5962.	817.	1201.	0.2197	0.1229	1.788	0.669	3.771
0.750	1801.	6436.	846.	1242.	0.2216	0.1265	1.752	0.658	3.573
0.775	2046.	6931.	874.	1284.	0.2235	0.1302	1.716	0.648	3.388
0.800	2319.	7465.	902.	1325.	0.2260	0.1342	1.683	0.639	3.219
0.825	2615.	7992.	930.	1367.	0.2275	0.1380	1.648	0.627	3.056
0.850	2935.	8531.	958.	1408.	0.2287	0.1416	1.615	0.617	2.907

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 3 WALLS UP 13 JULY 65 R₁₉ #4

BETA=21.1 AF= 93.0 CIA=13,000 NBL=4 TEMPC= 23.0 TEMPR= 533.09 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	TH/MP
796.	402.	2487.	0.479	0.2086	0.1073	1.9436	0.7084	6.1866
1005.	886.	4159.	0.604	0.2189	0.1175	1.8619	0.6951	4.6941
1200.	1576.	5893.	0.721	0.2175	0.1228	1.7710	0.6591	3.7392
1395.	2784.	9422.	0.839	0.2300	0.1381	1.6656	0.6375	3.0251

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	MP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	524.	3026.	594.	873.	0.2109	0.1060	1.990	0.729	5.773
0.550	601.	3331.	623.	915.	0.2115	0.1066	1.983	0.728	5.492
0.575	705.	3657.	651.	956.	0.2124	0.1086	1.957	0.720	5.183
0.600	821.	4004.	679.	998.	0.2136	0.1112	1.920	0.708	4.875
0.625	954.	4372.	708.	1040.	0.2150	0.1143	1.881	0.696	4.584
0.650	1103.	4762.	736.	1081.	0.2165	0.1175	1.842	0.684	4.317
0.675	1269.	5173.	764.	1123.	0.2181	0.1207	1.806	0.673	4.076
0.700	1452.	5605.	793.	1164.	0.2197	0.1238	1.774	0.664	3.861
0.725	1651.	6059.	821.	1206.	0.2214	0.1268	1.747	0.656	3.669
0.750	1867.	6533.	849.	1248.	0.2231	0.1295	1.723	0.649	3.499
0.775	2100.	7030.	878.	1289.	0.2248	0.1320	1.703	0.644	3.347
0.800	2350.	7547.	906.	1331.	0.2265	0.1343	1.687	0.641	3.212
0.825	2616.	8086.	934.	1372.	0.2282	0.1363	1.674	0.638	3.090

CURTISS CALIP PROP RUN NO 17 WALLS UP 16 JULY 65

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 25.0 TEMPR= 536.59 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	REM	RIM/MP
705.	269.	1924.	0.422	0.2057	0.1034	1.9902	0.7204	7.1524
801.	391.	2537.	0.480	0.2102	0.1025	2.0513	0.7504	6.4885
905.	570.	3234.	0.542	0.2099	0.1036	2.0266	0.7409	5.6737
1000.	787.	4059.	0.599	0.2157	0.1060	2.0356	0.7545	5.1576
1097.	1145.	4883.	0.657	0.2157	0.1168	1.8464	0.6843	4.2646
1196.	1391.	5961.	0.717	0.2215	0.1095	2.0229	0.7597	4.2854
1298.	1837.	7293.	0.778	0.2301	0.1131	2.0338	0.7785	3.9701
1398.	2372.	8562.	0.838	0.2328	0.1169	1.9916	0.7669	3.6096

***** FITTED CURVE DATA FOR CONSIANT MACH NUMBER INCREMENTS ***** IMP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	IM/MP
0.525	527.	3036.	596.	876.	0.2101	0.1054	1.994	0.729	5.765
0.550	614.	3352.	625.	718.	0.2114	0.1068	1.980	0.726	5.464
0.575	709.	3687.	653.	960.	0.2128	0.1081	1.969	0.725	5.199
UNDRFLCW AT 54145 IN MQ									
UNDRFLCW AT 54145 IN MQ									
0.600	813.	4011.	682.	1001.	0.2126	0.1090	1.950	0.718	4.934
UNDRFLCW AT 54145 IN MQ									
UNDRFLCW AT 54145 IN MQ									
0.625	928.	4390.	710.	1043.	0.2144	0.1101	1.947	0.719	4.729
UNDRFLCW AT 54145 IN MQ									
0.650	1053.	4795.	738.	1085.	0.2165	0.1110	1.950	0.724	4.554
0.675	1178.	5230.	767.	1127.	0.2190	0.1110	1.974	0.737	4.439
0.700	1327.	5679.	795.	1168.	0.2211	0.1121	1.974	0.741	4.280
0.725	1497.	6153.	824.	1210.	0.2233	0.1130	1.976	0.745	4.137
0.750	1659.	6651.	852.	1252.	0.2256	0.1139	1.981	0.751	4.009
0.775	1842.	7173.	880.	1294.	0.2279	0.1146	1.988	0.757	3.894
0.800	2037.	7719.	909.	1335.	0.2301	0.1152	1.997	0.765	3.790
0.825	2243.	8290.	937.	1377.	0.2324	0.1157	2.009	0.773	3.696

CURTISS CALIB PUMP RUN NO 19 WALLS UP 16 JULY 65

RETA=21.1 AF=93.0 DIA=13.000 NOL=4 TEMPC= 28.0 TEMPR= 542.09 SIGMA=0.9370

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	RTM/MP
596.	152.	1420.	0.355	0.2125	0.0967	2.1975	0.8083	9.3421
654.	203.	1719.	0.390	0.2135	0.0977	2.1845	0.8054	8.4631
699.	250.	1965.	0.417	0.2138	0.0986	2.1684	0.8000	7.8600
746.	314.	2240.	0.445	0.2139	0.1019	2.1004	0.7752	7.1338
809.	424.	2627.	0.492	0.2133	0.1078	1.9783	0.7292	6.1958
850.	488.	2937.	0.507	0.2161	0.1070	2.0191	0.7489	6.0184
902.	602.	3310.	0.538	0.2162	0.1105	1.9574	0.7263	5.4983
954.	707.	3705.	0.569	0.2164	0.1097	1.9732	0.7324	5.2405
1005.	843.	4164.	0.599	0.2191	0.1125	1.9477	0.7276	4.9104
1049.	978.	4508.	0.625	0.2182	0.1144	1.9066	0.7106	4.6094
1100.	1178.	4987.	0.656	0.2191	0.1192	1.8379	0.6865	4.2334
1145.	1317.	5442.	0.683	0.2206	0.1181	1.8673	0.5999	4.1321
1196.	1547.	6000.	0.713	0.2229	0.1218	1.8308	0.6898	3.8785
1242.	1838.	6660.	0.740	0.2295	0.1292	1.7762	0.6790	3.6235
1300.	2171.	7432.	0.775	0.2337	0.1331	1.7564	0.6776	3.4233
1350.	2543.	8140.	0.805	0.2374	0.1392	1.7055	0.6631	3.2009
1351.	2512.	8033.	0.805	0.2339	0.1372	1.7051	0.6581	3.1979
1398.	2892.	8715.	0.833	0.2370	0.1425	1.6627	0.6460	3.0135

***** FILLED CURVE DATA FOR CONSIANT MACH NUMBER INCREMENTS ***** 1MP, 6 POINT 2ND ORDER, TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	JH/MP
0.525	553.	3145.	599.	881.	0.2155	0.1090	1.977	0.733	5.689
0.550	639.	3472.	628.	923.	0.2168	0.1095	1.980	0.736	5.438
0.575	736.	3805.	657.	965.	0.2174	0.1104	1.968	0.732	5.170
0.600	855.	4153.	685.	1006.	0.2179	0.1130	1.928	0.718	4.855
0.625	984.	4515.	714.	1048.	0.2183	0.1150	1.898	0.709	4.488
0.650	1127.	4905.	742.	1090.	0.2193	0.1171	1.873	0.700	4.352
0.675	1277.	5300.	771.	1132.	0.2197	0.1185	1.855	0.694	4.150
0.700	1461.	5772.	799.	1174.	0.2225	0.1215	1.831	0.689	3.951
0.725	1656.	6292.	828.	1216.	0.2261	0.1247	1.813	0.688	3.777
0.750	1915.	6850.	856.	1258.	0.2300	0.1295	1.776	0.680	3.577
0.775	2181.	7430.	885.	1300.	0.2337	0.1337	1.748	0.674	3.406
0.800	2469.	7994.	913.	1342.	0.2356	0.1376	1.712	0.663	3.233
0.825	2778.	8526.	942.	1384.	0.2366	0.1412	1.676	0.651	3.069

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 20 WALLS UP

BEIA=21.1 AF= 93.0 CIA=13.000 NBL=4 IEMPC= 26.0 IEMPR= 535.49 SIGMA=0.9420

***** PAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	REM	RIH/MP
505.	107.	1050.	0.302	0.2198	0.1119	1.9559	0.7301	9.8131
587.	164.	1402.	0.351	0.2163	0.1092	1.9806	0.7350	8.5488
673.	247.	1870.	0.403	0.2194	0.1091	2.0110	0.7517	7.5709
773.	380.	2455.	0.462	0.2184	0.1108	1.9710	0.7350	6.4605
830.	574.	3185.	0.526	0.2186	0.1134	1.9272	0.7190	5.5488
975.	815.	3908.	0.584	0.2180	0.1182	1.8448	0.6874	4.7892
1072.	1090.	4760.	0.641	0.2201	0.1192	1.8477	0.6916	4.3670
1168.	1497.	5734.	0.699	0.2234	0.1265	1.7657	0.6660	3.8303
1276.	2040.	7030.	0.763	0.2295	0.1322	1.7355	0.6634	3.4461
1373.	2712.	8390.	0.821	0.2365	0.1411	1.6764	0.6507	3.0937

***** FITTED CURVE DATA FOR CONSIANI MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER, IM,)

MACH	HP	IM	IIPS	RPM	CI	CP	CI/CP	FM	IM/MP
0.525	576.	3168.	597.	878.	0.2186	0.1147	1.906	0.711	5.502
0.550	641.	3467.	626.	920.	0.2179	0.1144	1.904	0.709	5.247
0.575	770.	3801.	654.	961.	0.2186	0.1167	1.873	0.699	4.935
0.600	879.	4134.	683.	1003.	0.2184	0.1173	1.861	0.694	4.702
0.625	1016.	4512.	711.	1045.	0.2196	0.1199	1.832	0.685	4.442
0.650	1146.	4889.	740.	1087.	0.2200	0.1203	1.829	0.685	4.265
0.675	1316.	5316.	768.	1128.	0.2218	0.1233	1.799	0.676	4.039
0.700	1505.	5770.	797.	1170.	0.2239	0.1264	1.771	0.669	3.834
0.725	1713.	6254.	825.	1212.	0.2262	0.1296	1.746	0.663	3.650
0.750	1941.	6765.	853.	1254.	0.2287	0.1326	1.725	0.658	3.486
0.775	2188.	7305.	882.	1296.	0.2313	0.1354	1.708	0.655	3.339
0.800	2454.	7873.	910.	1337.	0.2339	0.1381	1.694	0.654	3.208

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 21 WALLS UP

BEIA=21.1 AF= 93.0 DIA=13.000 NBL=4 IEMPC= 24.5 IEMPR= 535.79 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	IN	IMACH	RCI	RCP	RCI/CP	RFM	RIH/MP
644.	210.	1644.	0.386	0.2107	0.1059	1.9898	0.7288	7.8286
748.	335.	2275.	0.449	0.2161	0.1078	2.0049	0.7437	6.7910
850.	506.	2867.	0.510	0.2109	0.1110	1.9008	0.6966	5.6660
955.	731.	3625.	0.573	0.2113	0.1130	1.8691	0.6856	4.9590
1046.	988.	4415.	0.627	0.2145	0.1163	1.8448	0.6818	4.4686
1146.	1344.	5450.	0.687	0.2206	0.1203	1.8341	0.6874	4.0551
1251.	1842.	6640.	0.750	0.2255	0.1267	1.7798	0.6745	3.6048
1352.	2490.	8000.	0.811	0.2326	0.1357	1.7144	0.6598	3.2129
1392.	2795.	8625.	0.835	0.2366	0.1395	1.6954	0.6580	3.0859

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 PCINT 2ND ORDER. TH, 6

MACH	MP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TH/MP
0.525	551.	3042.	596.	876.	0.2109	0.1105	1.908	0.699	5.523
0.550	644.	3354.	624.	917.	0.2119	0.1124	1.884	0.692	5.206
0.575	731.	3662.	653.	959.	0.2117	0.1121	1.888	0.693	4.990
0.600	851.	4013.	681.	1001.	0.2130	0.1144	1.863	0.686	4.716
0.625	981.	4388.	709.	1042.	0.2147	0.1167	1.840	0.681	4.474
0.650	1105.	4786.	738.	1084.	0.2165	0.1168	1.854	0.688	4.332
0.675	1268.	5214.	766.	1126.	0.2187	0.1198	1.826	0.682	4.111
0.700	1433.	5662.	795.	1167.	0.2208	0.1213	1.821	0.683	3.952
0.725	1635.	6146.	823.	1209.	0.2235	0.1246	1.794	0.677	3.759
0.750	1860.	6659.	851.	1251.	0.2262	0.1280	1.768	0.671	3.581
0.775	2106.	7199.	880.	1292.	0.2291	0.1314	1.744	0.666	3.418
0.800	2374.	7768.	908.	1334.	0.2319	0.1346	1.723	0.662	3.272
0.825	2665.	8364.	936.	1376.	0.2349	0.1378	1.704	0.659	3.139

STATIC PROP PERFORMANCE

CURTISS CALIB PROP RUN NO 22 WALLS UP 17 JULY 65

BEIA=21.1 AF= 93.0 CIA=13.000 NBL=4 IEHPC=21.0 TEMPR=529.49 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	IMACH	RCI	RCP	RCI/CP	RFM	RIH/MP
696.	249.	2006.	0.420	0.2201	0.0995	2.2130	0.8285	8.0562
805.	405.	2696.	0.436	0.2211	0.1045	2.1150	0.7936	6.6568
905.	591.	3406.	0.546	0.2210	0.1074	2.0585	0.7723	5.7631
1006.	847.	4138.	0.607	0.2173	0.1120	1.9398	0.7216	4.8855
1100.	1139.	5016.	0.664	0.2203	0.1152	1.9119	0.7162	4.4039
1192.	1516.	5998.	0.719	0.2245	0.1205	1.8614	0.7036	3.9565
1300.	2057.	7356.	0.784	0.2313	0.1261	1.8348	0.7042	3.5761
1399.	2790.	8338.	0.844	0.2264	0.1372	1.6501	0.6266	2.9885

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER, TH, 6

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/MP
0.525	513.	3113.	592.	870.	0.2184	0.1048	2.085	0.777	6.069
0.550	603.	3419.	621.	912.	0.2186	0.1071	2.040	0.761	5.669
0.575	704.	3743.	649.	953.	0.2189	0.1095	1.999	0.746	5.313
0.600	817.	4086.	677.	995.	0.2195	0.1118	1.963	0.734	5.001
0.625	929.	4416.	705.	1036.	0.2186	0.1125	1.943	0.725	4.751
0.650	1068.	4805.	733.	1078.	0.2199	0.1150	1.913	0.716	4.498
0.675	1196.	5254.	762.	1119.	0.2230	0.1150	1.939	0.731	4.391
0.700	1371.	5674.	790.	1160.	0.2239	0.1181	1.895	0.716	4.138
0.725	1566.	6111.	818.	1202.	0.2248	0.1214	1.851	0.701	3.903
0.750	1780.	6564.	846.	1243.	0.2257	0.1247	1.810	0.686	3.688
0.775	2014.	7035.	875.	1285.	0.2265	0.1279	1.771	0.673	3.492
0.800	2268.	7522.	903.	1326.	0.2273	0.1309	1.736	0.660	3.316
0.825	2542.	8026.	931.	1368.	0.2280	0.1338	1.704	0.649	3.157

STATIC PRCP PERFORMANCE

CURTISS CALIB PRCP RUN NO 23 WALLS UP 17 JULY 65

BETA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9550

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
598.	163.	1528.	0.360	0.2271	0.1026	2.2125	0.8414	9.3742
697.	239.	1969.	0.420	0.2154	0.0951	2.2663	0.8394	8.2385
702.	271.	1968.	0.423	0.2123	0.1055	2.0120	0.7397	7.2620
802.	440.	2553.	0.483	0.2110	0.1149	1.8366	0.6732	5.8023
905.	636.	3330.	0.545	0.2161	0.1155	1.8702	0.6938	5.2358
999.	859.	3976.	0.602	0.2117	0.1159	1.8271	0.6709	4.6340
1098.	1184.	4920.	0.661	0.2169	0.1204	1.8008	0.6693	4.1554
1198.	1649.	6031.	0.721	0.2233	0.1292	1.7293	0.6522	3.6574
1302.	2152.	7369.	0.784	0.2310	0.1313	1.7596	0.6749	3.4243
1399.	2963.	8349.	0.842	0.2270	0.1460	1.5547	0.5912	2.8178

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	IHP	RPM	CI	CP	CI/CP	FM	TH/HP
0.525	562.	3040.	593.	872.	0.2126	0.1142	1.861	0.685	5.409
0.550	639.	3326.	622.	913.	0.2119	0.1129	1.877	0.690	5.208
0.575	746.	3654.	650.	955.	0.2130	0.1154	1.846	0.680	4.899
0.600	866.	4004.	678.	996.	0.2143	0.1179	1.819	0.672	4.625
0.625	987.	4352.	706.	1038.	0.2147	0.1189	1.806	0.668	4.409
0.650	1132.	4752.	735.	1079.	0.2168	0.1212	1.788	0.664	4.198
0.675	1260.	5207.	763.	1121.	0.2203	0.1204	1.829	0.685	4.134
0.700	1446.	5638.	791.	1162.	0.2218	0.1239	1.789	0.672	3.900
0.725	1654.	6098.	820.	1204.	0.2232	0.1276	1.749	0.660	3.681
0.750	1884.	6556.	848.	1245.	0.2246	0.1313	1.710	0.647	3.479
0.775	2137.	7042.	876.	1287.	0.2260	0.1350	1.674	0.635	3.296
0.800	2412.	7548.	904.	1329.	0.2273	0.1385	1.641	0.624	3.129
0.825	2709.	8072.	933.	1370.	0.2286	0.1419	1.611	0.615	2.979

STATIC PROP. PERFORMANCE

CURTISS CALIB. PRUP RUN NO 60 WALLS UP 23 JULY 65

BETA=21.1 AF=93.0 DIA=13.000 NBL=4 TEMPC=27.0 IEMPR=540.29 SIGMA=0.9380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCI/CP	REM	RIH/HP
708.	290.	2047.	0.423	0.2170	0.1100	1.9724	0.7333	7.0586
801.	427.	2601.	0.478	0.2155	0.1119	1.9257	0.7133	6.0913
900.	621.	3283.	0.537	0.2154	0.1147	1.8779	0.6955	5.2866
997.	849.	3987.	0.595	0.2132	0.1154	1.8479	0.6809	4.6961
1097.	1152.	4904.	0.655	0.2166	0.1175	1.8431	0.6845	4.2569
1198.	1615.	5970.	0.715	0.2211	0.1265	1.7478	0.6558	3.6966
1300.	2173.	7164.	0.776	0.2253	0.1332	1.6915	0.6407	3.2968
1400.	2883.	8464.	0.836	0.2295	0.1415	1.6222	0.6202	2.9358

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP
0.525	556.	3102.	598.	879.	0.2133	0.1102	1.936	0.714	5.580
0.550	650.	3408.	627.	921.	0.2135	0.1121	1.906	0.703	5.242
0.575	757.	3735.	655.	963.	0.2141	0.1142	1.875	0.692	4.933
0.600	860.	4070.	684.	1005.	0.2143	0.1141	1.878	0.694	4.735
0.625	994.	4438.	712.	1047.	0.2153	0.1167	1.844	0.683	4.465
0.650	1145.	4829.	741.	1089.	0.2166	0.1196	1.812	0.673	4.217
0.675	1294.	5239.	769.	1130.	0.2179	0.1207	1.806	0.673	4.048
0.700	1483.	5676.	798.	1172.	0.2195	0.1240	1.771	0.662	3.827
0.725	1692.	6136.	826.	1214.	0.2212	0.1273	1.737	0.652	3.626
0.750	1923.	6621.	855.	1256.	0.2231	0.1307	1.707	0.643	3.443
0.775	2174.	7130.	883.	1298.	0.2250	0.1339	1.680	0.636	3.279
0.800	2446.	7662.	912.	1340.	0.2269	0.1370	1.656	0.630	3.132
0.825	2740.	8220.	940.	1382.	0.2289	0.1399	1.636	0.625	3.000

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP PUN NO 61 WALLS UP

BEIA=21.1 AF= 93.0 DIA=13.000 NBL=4 JEMPC= 27.0 JEMPR= 540.29 SIGMA=0.9380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RJH/HP
552.	131.	1215.	0.330	0.2119	0.1049	2.0206	0.7423	9.2748
646.	215.	1706.	0.386	0.2173	0.1074	2.0231	0.7525	7.9349
747.	341.	2292.	0.446	0.2183	0.1102	1.9816	0.7389	6.7214
849.	515.	2921.	0.507	0.2154	0.1133	1.9005	0.7039	5.6718
948.	733.	3667.	0.566	0.2169	0.1159	1.8718	0.6956	5.0027
1052.	1017.	4499.	0.628	0.2161	0.1176	1.8368	0.6813	4.4238
1149.	1362.	5434.	0.686	0.2188	0.1209	1.8093	0.6753	3.9897
1249.	1874.	6545.	0.746	0.2220	0.1295	1.7217	0.6488	3.4925
1350.	2523.	7803.	0.806	0.2270	0.1381	1.6479	0.6273	3.0927

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	573.	3141.	598.	879.	0.2160	0.1135	1.903	0.706	5.483
0.550	668.	3450.	627.	921.	0.2162	0.1151	1.878	0.697	5.165
0.575	754.	3756.	655.	963.	0.2153	0.1137	1.894	0.701	4.985
0.600	874.	4102.	684.	1005.	0.2160	0.1160	1.862	0.691	4.595
0.625	1008.	4469.	712.	1047.	0.2168	0.1184	1.832	0.681	4.434
0.650	1134.	4845.	741.	1089.	0.2173	0.1184	1.835	0.683	4.272
0.675	1304.	5257.	769.	1130.	0.2187	0.1216	1.799	0.671	4.032
0.700	1493.	5691.	798.	1172.	0.2201	0.1248	1.764	0.661	3.813
0.725	1701.	6149.	826.	1215.	0.2217	0.1280	1.733	0.651	3.616
0.750	1928.	6631.	855.	1256.	0.2234	0.1310	1.705	0.643	3.439
0.775	2175.	7135.	883.	1298.	0.2251	0.1340	1.681	0.636	3.281
0.800	2440.	7663.	912.	1340.	0.2269	0.1367	1.660	0.631	3.140

STATIC PROCP PERFORMANCE

CURTISS CALIB PROP RUN NO. 78 WALLS UP 28 JULY 65

BEIA=21.1 AF= 93.0 CIA=13.000 NDL=4 TEMPC= 21.0 TEMPR= 529.49 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCL/CP	REM	RIH/HP
474.	80.	P54.	0.286	0.2020	0.1012	1.9971	0.7163	10.6750
575.	150.	1290.	0.347	0.2074	0.1063	1.9517	0.7092	8.6000
675.	246.	1813.	0.407	0.2115	0.1077	1.9634	0.7205	7.3699
778.	383.	2417.	0.469	0.2122	0.1095	1.9378	0.7124	6.3107
879.	573.	3084.	0.530	0.2121	0.1136	1.8672	0.6863	5.3822
972.	789.	3793.	0.586	0.2134	0.1157	1.8442	0.6798	4.8074
1071.	1089.	4752.	0.644	0.2202	0.1194	1.8445	0.6907	4.3636
1173.	1479.	5648.	0.708	0.2182	0.1234	1.7679	0.6590	3.8188
1269.	2012.	6814.	0.765	0.2249	0.1326	1.6962	0.6419	3.3867
1372.	2709.	8190.	0.828	0.2312	0.1413	1.6371	0.6282	3.0233

***** FILLED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TH/HP
0.525	555.	3031.	592.	870.	0.2126	0.1134	1.876	0.690	5.460
0.550	640.	3346.	621.	912.	0.2139	0.1137	1.881	0.694	5.228
0.575	744.	3672.	649.	953.	0.2148	0.1157	1.857	0.687	4.935
0.600	840.	4001.	677.	995.	0.2149	0.1150	1.869	0.692	4.761
0.625	972.	4367.	705.	1036.	0.2162	0.1177	1.837	0.682	4.493
0.650	1095.	4734.	733.	1078.	0.2167	0.1179	1.838	0.683	4.322
0.675	1259.	5144.	762.	1119.	0.2184	0.1210	1.804	0.673	4.085
0.700	1444.	5579.	790.	1160.	0.2202	0.1244	1.770	0.663	3.865
0.725	1648.	6037.	818.	1202.	0.2221	0.1278	1.738	0.654	3.663
0.750	1873.	6519.	846.	1243.	0.2241	0.1312	1.709	0.645	3.482
0.775	2117.	7025.	875.	1285.	0.2262	0.1344	1.683	0.639	3.318
0.800	2382.	7556.	903.	1326.	0.2283	0.1375	1.660	0.633	3.172
0.825	2667.	8110.	931.	1368.	0.2304	0.1404	1.641	0.629	3.041

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 79 WALLS UP 28 JUL 65

BEIA=21.1 AF= 93.0 DIA=13.000 NRL=4 TEMPC= 23.5 TEMPR= 533.99 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	REM	RTH/HP
478.	83.	330.	0.287	0.1931	0.1023	1.8866	0.6615	10.0000
577.	149.	1290.	0.347	0.2011	0.1045	1.9258	0.6892	8.4564
672.	246.	1806.	0.404	0.2126	0.1092	1.9471	0.7164	7.3415
776.	380.	2394.	0.466	0.2113	0.1095	1.9295	0.7078	6.3000
871.	553.	3045.	0.523	0.2133	0.1127	1.8929	0.6977	5.5063
972.	806.	3801.	0.584	0.2138	0.1182	1.8091	0.6676	4.7159
1069.	1096.	4725.	0.642	0.2198	0.1208	1.8189	0.6804	4.3111
1174.	1515.	5754.	0.705	0.2219	0.1262	1.7587	0.6611	3.7955
1269.	2017.	6867.	0.762	0.2266	0.1329	1.7052	0.6478	3.4046
1375.	2768.	8232.	0.826	0.2314	0.1434	1.6139	0.6196	2.9740

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER, TH,

FACH	HP	TH	IIPS	RPM	CI	CP	CI/CP	FM	IH/HP
0.525	557.	3057.	595.	874.	0.2127	0.1124	1.892	0.696	5.486
0.550	654.	3372.	623.	916.	0.2138	0.1147	1.863	0.687	5.156
0.575	762.	3706.	652.	957.	0.2150	0.1170	1.837	0.680	4.863
0.600	869.	4055.	680.	999.	0.2160	0.1175	1.839	0.682	4.664
0.625	1005.	4430.	708.	1041.	0.2175	0.1201	1.811	0.674	4.409
0.650	1122.	4820.	737.	1082.	0.2188	0.1200	1.823	0.680	4.268
0.675	1299.	5238.	765.	1124.	0.2204	0.1233	1.788	0.670	4.031
0.700	1499.	5678.	793.	1165.	0.2222	0.1267	1.754	0.660	3.813
0.725	1699.	6140.	822.	1207.	0.2240	0.1301	1.722	0.650	3.614
0.750	1928.	6624.	850.	1249.	0.2259	0.1334	1.693	0.642	3.435
0.775	2178.	7130.	878.	1290.	0.2276	0.1365	1.667	0.635	3.274
0.800	2447.	7658.	907.	1332.	0.2295	0.1395	1.645	0.629	3.130
0.825	2736.	8209.	935.	1373.	0.2313	0.1422	1.626	0.624	3.000

SECTION III

DATA RUNS: RIG 4, PHASE II,
PROTECTIVE WALLS DOWN

CONFIGURATION	PAGE
2FE16A3-4A	68
2FE16A3-4A WITH T. E. TABS	80
2J17G3-26R	84
2FF16A1-4A (30,000 Ft-Lb SHAFT)	94
2FF16A1-4A (15,000 Ft-Lb SHAFT)	99
SK59868-0	108
SK59868-0R	118
SK59868-12	127
SK59868-12R	136
SK59868-18	145
SK59868-18R	154
6903A-0 (34E60 HUB)	163
6903A-0T (34E60 HUB)	168
6903A-0 (43E60 HUB)	174
1490A2P3	178
47 x 75	182
CALIBRATOR	191

STATIC PROP PERFORMANCE

XC-142A(2FE10A3-4A) RUN NO 93 FALLS DOWN

BETA=-2.0 AF= 80.0 DIA=15.000 JUL=4 TEMPC= 26.2 TEMPR= 538.8 SIGMA=C.9380

***** CAM DATA PLUITS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	PFM	RTH/HP
735.	61.	448.	0.528	0.0211	0.0082	2.5607	0.2970	7.3443
854.	90.	490.	0.614	0.0171	0.0078	2.2056	0.2302	5.4444
978.	134.	661.	0.793	0.0176	0.0088	1.9913	0.2108	4.2922
1049.	194.	704.	0.754	0.0163	0.0090	1.8058	0.1839	3.6289
1095.	211.	618.	0.787	0.0131	0.0086	1.5214	0.1391	2.9289
1129.	235.	661.	0.811	0.0132	0.0088	1.5064	0.1382	2.8128
1161.	264.	682.	0.834	0.0129	0.0091	1.4228	0.1289	2.5833
1191.	285.	682.	0.856	0.0122	0.0091	1.3520	0.1194	2.3930
1221.	322.	704.	0.878	0.0120	0.0095	1.2664	0.1108	2.1863
1252.	350.	746.	0.900	0.0121	0.0096	1.2659	0.1112	2.1314
1287.	397.	725.	0.925	0.0111	0.0100	1.1149	0.0939	1.8262
1317.	452.	704.	0.947	0.0103	0.0106	0.9731	0.0789	1.5575
1356.	538.	618.	0.975	0.0086	0.0116	0.7389	0.0546	1.1487
1373.	588.	618.	0.987	0.0083	0.0122	0.6845	0.0499	1.0510
1405.	631.	448.	1.010	0.0058	0.0132	0.4385	0.0266	0.6579
1441.	800.	107.	1.036	0.0013	0.0140	0.0938	0.0027	0.1372

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	166.	642.	825.	1209.	0.0161	0.0087	1.846	0.187	3.857
0.750	185.	652.	854.	1044.	0.0153	0.0087	1.745	0.172	3.524
0.775	208.	679.	882.	1078.	0.0149	0.0089	1.672	0.163	3.269
0.800	227.	662.	911.	1113.	0.0136	0.0088	1.540	0.143	2.917
0.825	249.	655.	939.	1148.	0.0127	0.0089	1.431	0.128	2.628
0.850	281.	687.	968.	1183.	0.0125	0.0091	1.371	0.122	2.443
0.875	315.	704.	974.	1218.	0.0122	0.0094	1.299	0.114	2.250
0.900	350.	738.	1025.	1252.	0.0120	0.0096	1.252	0.109	2.107
0.925	397.	727.	1033.	1287.	0.0112	0.0100	1.119	0.094	1.832
0.950	461.	702.	1041.	1322.	0.0102	0.0107	0.954	0.077	1.521
0.975	545.	654.	1110.	1357.	0.0090	0.0117	0.772	0.059	1.199
1.000	636.	498.	1138.	1391.	0.0065	0.0127	0.517	0.033	0.783

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-6A) RUN TO 10000 FALLS DOWN

META=0. AF=0.0 DIA=15.045 IFL=4 TEMPC=26.2 TEMPR=538.85 SIGMA=C.9380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	RTH/HP
734.	73.	725.	C.528	C.0343	0.0099	3.4581	0.5109	9.9315
854.	120.	959.	C.614	C.0335	0.0103	3.2376	0.4728	7.9917
975.	184.	1195.	C.701	C.0319	0.0106	3.0069	0.4289	6.4946
1103.	275.	1473.	C.793	C.0308	0.0110	2.8026	0.3927	5.3564
1132.	294.	1515.	C.812	C.0302	0.0109	2.7623	0.3832	5.1531
1159.	325.	1579.	C.832	C.0300	0.0112	2.6689	0.3688	4.8585
1194.	353.	1620.	C.858	C.0289	0.0111	2.5994	0.3529	4.5892
1232.	390.	1706.	C.885	C.0286	0.0112	2.5565	0.3452	4.3744
1255.	411.	1750.	C.902	C.0283	0.0112	2.5349	0.3403	4.2579
1284.	452.	1835.	C.923	C.0283	0.0115	2.4728	0.3322	4.0597
1318.	496.	1898.	C.947	C.0278	0.0116	2.3925	0.3185	3.8266
1343.	550.	1941.	C.969	C.0272	0.0121	2.2567	0.2970	3.5291
1374.	616.	1963.	C.987	C.0265	0.0127	2.0771	0.2697	3.1867
1408.	723.	2026.	1.012	C.0260	0.0139	1.8717	0.2410	2.8022
1436.	794.	2048.	1.032	C.0253	0.0144	1.7571	0.2230	2.5793
1468.	908.	2111.	1.055	C.0249	0.0154	1.6190	0.2041	2.3249

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	206.	1267.	825.	1009.	0.0317	0.0108	2.948	0.419	6.161
0.750	230.	1339.	854.	1044.	0.0313	0.0109	2.883	0.407	5.823
0.775	256.	1411.	882.	1078.	0.0309	0.0110	2.822	0.396	5.516
0.800	283.	1482.	911.	1113.	0.0305	0.0110	2.767	0.385	5.239
0.825	312.	1553.	939.	1148.	0.0300	0.0111	2.707	0.374	4.971
0.850	344.	1611.	968.	1183.	0.0293	0.0112	2.626	0.359	4.681
0.875	376.	1673.	996.	1218.	0.0287	0.0112	2.572	0.348	4.454
0.900	411.	1747.	1025.	1252.	0.0284	0.0112	2.526	0.340	4.252
0.925	450.	1839.	1053.	1287.	0.0283	0.0113	2.492	0.334	4.082
0.950	501.	1899.	1081.	1322.	0.0277	0.0117	2.375	0.315	3.788
0.975	575.	1951.	1110.	1357.	0.0270	0.0124	2.184	0.286	3.393
1.000	665.	1993.	1138.	1391.	0.0262	0.0133	1.977	0.255	2.995

STATIC PUMP PERFORMANCE

XC-142A(2F-26A3-4A) RUN IN LOW BALLS DOWN

RETA= 2.0 AFE 89.0 DIA=15.025 CHL=4 TEMPC= 25.5 TEMPR= 537.59 SIGMA=0.9423

***** PUMP DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	KFM	RTH/HP
734.	97.	1945.	0.528	0.0492	0.0132	3.7332	0.6605	10.7216
855.	157.	1359.	0.615	0.0473	0.0135	3.5108	0.6096	8.6561
976.	236.	1725.	0.702	0.0460	0.0136	3.3743	0.5774	7.2881
1102.	349.	2188.	0.793	0.0459	0.0140	3.2774	0.5602	6.2693
1133.	341.	2292.	0.815	0.0455	0.0141	3.2333	0.5502	6.0157
1163.	419.	2425.	0.837	0.0456	0.0143	3.1864	0.5428	5.7757
1192.	453.	2508.	0.858	0.0450	0.0144	3.1306	0.5297	5.5364
1224.	500.	2632.	0.881	0.0447	0.0146	3.0565	0.5159	5.2640
1256.	543.	2738.	0.904	0.0442	0.0147	3.0043	0.5040	5.0424
1286.	612.	2889.	0.925	0.0445	0.0152	2.9276	0.4928	4.7990
1322.	672.	2950.	0.951	0.0430	0.0156	2.7530	0.4555	4.3899
1349.	734.	3059.	0.971	0.0428	0.0161	2.6670	0.4403	4.1676
1380.	816.	3121.	0.993	0.0417	0.0165	2.5349	0.4133	3.8722
1408.	886.	3185.	1.013	0.0409	0.0170	2.4010	0.3876	3.5948
1436.	955.	3208.	1.033	0.0396	0.0173	2.2883	0.3635	3.3592
1472.	1079.	3357.	1.059	0.0395	0.0182	2.1725	0.3444	3.1112

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	263.	1834.	824.	1008.	0.0460	0.0138	3.337	0.571	6.981
0.750	293.	1956.	853.	1042.	0.0459	0.0139	3.299	0.564	6.672
0.775	326.	2084.	881.	1077.	0.0457	0.0140	3.267	0.558	6.394
0.800	360.	2213.	910.	1112.	0.0456	0.0141	3.243	0.553	6.148
0.825	398.	2349.	938.	1147.	0.0455	0.0142	3.210	0.546	5.902
0.850	441.	2476.	964.	1181.	0.0452	0.0144	3.148	0.534	5.618
0.875	487.	2599.	995.	1216.	0.0448	0.0145	3.084	0.520	5.342
0.900	539.	2733.	1023.	1251.	0.0445	0.0148	3.011	0.507	5.075
0.925	599.	2857.	1052.	1286.	0.0440	0.0151	2.907	0.487	4.767
0.950	669.	2959.	1080.	1320.	0.0434	0.0156	2.782	0.462	4.441
0.975	748.	3063.	1109.	1355.	0.0425	0.0161	2.632	0.433	4.095
1.000	832.	3135.	1137.	1390.	0.0413	0.0166	2.484	0.403	3.768

STATIC PROP PERFORMANCE

XC-142A(2FE15A3-4A) RUN 40 100 WALLS DOWN

BETA= 4.0 AF= 86.0 DIA=15.625 NPL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=C.9440

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCF	RCP	RCT/CP	RFM	RTH/HP
732.	138.	1378.	0.527	0.0655	0.0189	3.4674	0.7081	9.9855
852.	222.	1865.	0.614	0.0655	0.0193	3.3972	0.6936	8.4054
978.	334.	2390.	0.704	0.0638	0.0192	3.3281	0.6708	7.1737
1104.	492.	3052.	0.795	0.0638	0.0196	3.2487	0.6547	6.2033
1131.	535.	3222.	0.814	0.0641	0.0199	3.2311	0.6531	6.0224
1160.	577.	3391.	0.835	0.0642	0.0198	3.2339	0.6538	5.8769
1192.	629.	3539.	0.858	0.0634	0.0199	3.1815	0.6394	5.6264
1221.	679.	3730.	0.879	0.0637	0.0200	3.1818	0.6409	5.4934
1251.	763.	3962.	0.908	0.0635	0.0204	3.1062	0.6244	5.1927
1285.	807.	4112.	0.925	0.0634	0.0204	3.1060	0.6242	5.0954
1319.	918.	4260.	0.950	0.0624	0.0215	2.9036	0.5786	4.6405
1351.	1016.	4388.	0.973	0.0612	0.0221	2.7679	0.5465	4.3189
1376.	1107.	4473.	0.991	0.0602	0.0228	2.6375	0.5163	4.0407
1410.	1225.	4537.	1.015	0.0581	0.0235	2.4773	0.4766	3.7037
1442.	1352.	4600.	1.038	0.0563	0.0242	2.3274	0.4408	3.4024
1467.	1457.	4661.	1.056	0.0552	0.0248	2.2262	0.4172	3.1990

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	370.	2552.	824.	1007.	0.0641	0.0194	3.298	0.666	6.905
0.750	411.	2729.	852.	1041.	0.0641	0.0196	3.276	0.662	6.632
0.775	456.	2912.	880.	1076.	0.0640	0.0197	3.259	0.658	6.383
0.800	503.	3093.	909.	1111.	0.0638	0.0197	3.242	0.654	6.153
0.825	555.	3295.	937.	1146.	0.0639	0.0198	3.225	0.651	5.935
0.850	609.	3493.	966.	1180.	0.0639	0.0199	3.210	0.647	5.732
0.875	670.	3687.	994.	1215.	0.0636	0.0200	3.172	0.638	5.504
0.900	735.	3896.	1022.	1250.	0.0635	0.0202	3.143	0.632	5.301
0.925	816.	4198.	1051.	1285.	0.0632	0.0207	3.062	0.614	5.024
0.950	916.	4268.	1079.	1319.	0.0625	0.0214	2.917	0.582	4.661
0.975	1029.	4397.	1108.	1354.	0.0611	0.0223	2.745	0.541	4.274
1.000	1149.	4475.	1136.	1389.	0.0594	0.0230	2.579	0.501	3.915

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 103 WALLS DOWN

BETA= 6.0 AF= 80.0 DIA=15.025 NPL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=C.9440

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
738.	190.	1802.	0.531	0.0843	0.0254	3.3203	0.7691	9.4842
858.	306.	2419.	0.618	0.0837	0.0260	3.2162	0.7423	7.9020
977.	456.	3023.	0.704	0.0807	0.0263	3.0725	0.6963	6.6294
1096.	660.	3942.	0.789	0.0836	0.0269	3.1053	0.7164	5.9727
1134.	739.	4238.	0.817	0.0839	0.0272	3.0892	0.7142	5.7425
1158.	800.	4472.	0.834	0.0849	0.0277	3.0707	0.7141	5.5900
1194.	872.	4685.	0.860	0.0837	0.0275	3.0431	0.7025	5.3727
1223.	952.	4982.	0.881	0.0848	0.0279	3.0361	0.7056	5.2332
1259.	1045.	5258.	0.906	0.0846	0.0282	3.0027	0.6970	5.0316
1283.	1143.	5470.	0.924	0.0846	0.0291	2.9127	0.6762	4.7857
1315.	1262.	5640.	0.948	0.0829	0.0297	2.7900	0.6412	4.4691
1349.	1396.	5785.	0.971	0.0810	0.0305	2.6519	0.6021	4.1440
1375.	1524.	5978.	0.991	0.0804	0.0314	2.5604	0.5794	3.9226
1413.	1697.	6248.	1.018	0.0784	0.0323	2.4284	0.5427	3.6229
1439.	1814.	6298.	1.036	0.0775	0.0327	2.3700	0.5264	3.4719
1465.	1958.	6380.	1.055	0.0757	0.0334	2.2645	0.4972	3.2584

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	505.	3270.	824.	1007.	0.0822	0.0265	3.095	0.708	6.480
0.750	564.	3518.	852.	1041.	0.0826	0.0268	3.084	0.707	5.242
0.775	627.	3781.	880.	1076.	0.0831	0.0270	3.079	0.708	6.031
0.800	692.	4036.	909.	1111.	0.0833	0.0271	3.072	0.708	5.830
0.825	765.	4338.	937.	1146.	0.0842	0.0273	3.080	0.713	5.668
0.850	845.	4616.	966.	1180.	0.0844	0.0276	3.058	0.709	5.462
0.875	928.	4897.	994.	1215.	0.0845	0.0278	3.041	0.705	5.275
0.900	1026.	5184.	1022.	1250.	0.0845	0.0282	2.995	0.695	5.053
0.925	1142.	5447.	1051.	1285.	0.0841	0.0287	2.905	0.672	4.769
0.950	1276.	5653.	1079.	1319.	0.0827	0.0294.	2.772	0.636	4.429
0.975	1422.	6035.	1108.	1354.	0.0811	0.0304	2.635	0.599	4.102
1.000	1578.	6030.	1136.	1389.	0.0796	0.0316	2.517	0.567	3.821

STATIC PROOF PERFORMANCE

XC-142A(2F816A2-4A) RPM TO 10 CALLS DOWN

BETA= 8.0 AF= 8.0 DIA=15.625 MIL=4 TEMPC= 23.0 TEMPR= 533.09 SIGMA=0.9530

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
735.	254.	2182.	0.531	0.1029	0.0343	2.9952	0.7666	8.5906
854.	414.	2980.	0.617	0.1041	0.0357	2.9161	0.7507	7.1981
975.	634.	3926.	0.704	0.1052	0.0367	2.9641	0.7412	6.1924
1098.	954.	5100.	0.793	0.1077	0.0387	2.7845	0.7293	5.3459
1125.	1038.	5395.	0.813	0.1086	0.0391	2.7738	0.7293	5.1975
1157.	1157.	5775.	0.836	0.1099	0.0401	2.7395	0.7246	4.9914
1192.	1272.	6150.	0.861	0.1102	0.0403	2.7339	0.7243	4.8349
1223.	1408.	6570.	0.884	0.1119	0.0413	2.7071	0.7225	4.6662
1250.	1527.	6840.	0.903	0.1115	0.0420	2.6561	0.7077	4.4794
1290.	1725.	7175.	0.932	0.1098	0.0431	2.5453	0.6731	4.1594
1314.	1857.	7350.	0.952	0.1078	0.0435	2.4746	0.6482	3.9580
1348.	2028.	7620.	0.974	0.1068	0.0444	2.4027	0.6256	3.7574
1372.	2172.	7830.	0.991	0.1059	0.0452	2.3463	0.6094	3.6050
1404.	2380.	8060.	1.014	0.1041	0.0462	2.2555	0.5808	3.3866
1437.	2590.	8290.	1.038	0.1022	0.0469	2.1819	0.5567	3.2008
1471.	2859.	8750.	1.063	0.1030	0.0482	2.1356	0.5469	3.0605

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	704.	4188.	821.	1003.	0.1059	0.0374	2.831	0.735	5.949
0.750	792.	4514.	849.	1038.	0.1067	0.0380	2.807	0.732	5.700
0.775	887.	4856.	878.	1073.	0.1075	0.0386	2.786	0.729	5.476
0.800	985.	5205.	906.	1107.	0.1081	0.0390	2.775	0.728	5.284
0.825	1097.	5583.	934.	1142.	0.1091	0.0396	2.757	0.727	5.090
0.850	1220.	5932.	962.	1176.	0.1103	0.0402	2.741	0.726	4.912
0.875	1356.	6408.	991.	1211.	0.1113	0.0410	2.715	0.723	4.727
0.900	1506.	6783.	1019.	1246.	0.1113	0.0418	2.661	0.709	4.504
0.925	1672.	7101.	1047.	1280.	0.1104	0.0428	2.579	0.684	4.247
0.950	1846.	7357.	1076.	1315.	0.1084	0.0436	2.486	0.653	3.985
0.975	2038.	7534.	1104.	1349.	0.1068	0.0445	2.398	0.625	3.746
1.000	2245.	7887.	1132.	1384.	0.1049	0.0455	2.307	0.596	3.513

STATIC PROP PERFORMANCE

XC-142A(2F916A3-4A) RUN 40 37 WALLS DOWN

BETA=10.0 AF= 20.0 DIA=15.025 NUL=4 TEMPC= 26.7 LMPH= 539.75 SIGMA=C.9360

***** RAW DATA POINTS *****

RPM	HP	TH	TVACH	RCT	RCP	RCT/CP	RPM	RTH/HP
735.	325.	2650.	0.029	C.1246	0.0438	2.9468	0.8019	8.1538
850.	541.	3590.	0.018	C.1236	0.0457	2.7972	0.7596	6.6359
985.	840.	4787.	0.077	C.1257	0.0472	2.6628	0.7532	5.6988
1098.	1258.	6175.	0.788	C.1304	0.0510	2.5567	0.7369	4.9086
1133.	1336.	5677.	0.814	C.1323	0.0512	2.5865	0.7508	4.8124
1155.	1555.	7135.	0.839	C.1332	0.0524	2.5423	0.7404	4.5884
1192.	1678.	7520.	0.856	C.1348	0.0532	2.5341	0.7424	4.4815
1223.	1851.	8055.	0.878	C.1372	0.0543	2.5247	0.7461	4.3517
1257.	2080.	8510.	0.903	C.1372	0.0562	2.4396	0.7210	4.0913
1284.	2270.	8825.	0.925	C.1355	0.0570	2.3753	0.6977	3.8877
1321.	2432.	8955.	0.949	C.1307	0.0566	2.3074	0.6657	3.6822
1324.	2508.	9210.	0.951	C.1338	0.0580	2.3064	0.6733	3.6722
1349.	2642.	9420.	0.969	C.1318	0.0578	2.2808	0.6608	3.5641
1376.	2868.	9703.	0.988	C.1305	0.0591	2.2077	0.6364	3.3821
1404.	3075.	9955.	1.008	C.1286	0.0597	2.1562	0.6171	3.2374
1433.	3381.	10390.	1.033	C.1278	0.0609	2.0977	0.5984	3.0731
1469.	3586.	10645.	1.055	C.1256	0.0607	2.0686	0.5851	2.9685

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	930.	5083.	826.	1010.	0.1270	0.0485	2.617	0.744	5.464
0.750	1049.	5495.	934.	1044.	0.1283	0.0494	2.595	0.742	5.237
0.775	1178.	5931.	683.	1079.	0.1297	0.0503	2.578	0.741	5.035
0.800	1314.	6388.	911.	1114.	0.1311	0.0510	2.570	0.743	4.863
0.825	1469.	6981.	942.	1149.	0.1328	0.0520	2.553	0.742	4.685
0.850	1631.	7403.	968.	1184.	0.1346	0.0528	2.549	0.746	4.539
0.875	1831.	7943.	997.	1219.	0.1362	0.0543	2.568	0.739	4.338
0.900	2049.	8460.	1025.	1253.	0.1372	0.0559	2.455	0.726	4.130
0.925	2266.	8792.	1054.	1288.	0.1349	0.0569	2.371	0.695	3.879
0.950	2474.	9114.	1082.	1323.	0.1326	0.0574	2.312	0.672	3.684
0.975	2719.	9491.	1111.	1358.	0.1311	0.0583	2.248	0.650	3.490
1.000	2992.	9864.	1139.	1393.	0.1295	0.0595	2.178	0.626	3.297

STATIC PROP PERFORMANCE

YC-1424(2F11CA3-4A) RUM RD 26 WALLS DOWN

RETA=12.0 AL= 85.0 DIA=15.625 PUL=4 TEMP= 21.0 TEMPR= 529.49 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
750.	470.	3.40.	0.544	0.1422	0.0598	3769	0.7152	6.6809
855.	712.	4.118.	0.520	0.1435	0.0612	2.3458	0.7090	5.7837
946.	1132.	5.590.	0.713	0.1470	0.0638	2.3951	0.7053	4.9382
1093.	1693.	7.323.	0.796	0.1549	0.0687	2.2567	0.7089	4.3325
1123.	1873.	7.795.	0.818	0.1560	0.0701	2.2259	0.7020	4.1618
1167.	2135.	8.445.	0.846	0.1579	0.0721	2.1897	0.6944	3.9555
1194.	2268.	8.760.	0.861	0.1581	0.0726	2.1767	0.6906	3.8624
1225.	2549.	9.265.	0.889	0.1570	0.0743	2.1139	0.6684	3.6348
1254.	2773.	9.685.	0.909	0.1569	0.0755	2.0776	0.6566	3.4926
1285.	3040.	10.130.	0.932	0.1560	0.0767	2.0328	0.6407	3.3322
1317.	3302.	10.560.	0.955	0.1548	0.0776	1.9942	0.6260	3.1920
1345.	3601.	10.990.	0.975	0.1547	0.0795	1.9472	0.6112	3.0519
1373.	3850.	11.390.	0.995	0.1539	0.0799	1.9269	0.6032	2.9584
1393.	4030.	11.576.	1.010	0.1519	0.0800	1.8981	0.5904	2.8725

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1209.	5342.	818.	1000.	0.1488	0.9649	2.293	0.706	4.833
0.750	1369.	6329.	846.	1034.	0.1506	0.9664	2.268	0.702	4.622
0.775	1545.	6845.	875.	1069.	0.1525	0.9679	2.247	0.700	4.431
0.800	1727.	7380.	903.	1103.	0.1544	0.9690	2.236	0.701	4.273
0.825	1937.	7968.	931.	1138.	0.1567	0.9706	2.221	0.702	4.114
0.850	2164.	8512.	959.	1172.	0.1577	0.9721	2.187	0.693	3.932
0.875	2408.	9021.	987.	1207.	0.1577	0.9735	2.145	0.680	3.746
0.900	2671.	9501.	1016.	1241.	0.1570	0.9749	2.095	0.662	3.558
0.925	2950.	9976.	1044.	1276.	0.1561	0.9762	2.047	0.645	3.382
0.950	3256.	10472.	1072.	1310.	0.1553	0.9777	1.999	0.629	3.216
0.975	3578.	10964.	1100.	1345.	0.1544	0.9790	1.955	0.613	3.064
1.000	3906.	11429.	1128.	1379.	0.1530	0.9799	1.915	0.598	2.926

STATIC PROP PERFORMANCE

XC-142A(2FE15A3-6A) RPM NO 93 WALLS DOWN

RETA=14.0 AF= 66.0 DIA=15.625 RPL=4 TEMPC= 23.5 TEMPR= 533.99 SIGMA=0.9500

***** RAW DATA PLOTS *****

RPM	HP	TH	TMACH	PCI	RCP	RCT/CP	KFM	RTH/HP
729.	534.	3308.	0.526	0.1585	0.0740	2.1423	0.6807	6.1948
857.	901.	4635.	0.519	0.1607	0.0769	2.0914	0.6691	5.1443
978.	1411.	6255.	0.706	0.1665	0.0810	2.0567	0.6698	4.4330
1098.	2150.	8175.	0.793	0.1727	0.0872	1.9805	0.6568	3.8023
1123.	2240.	8660.	0.811	0.1749	0.0887	1.9715	0.6579	3.7009
1165.	2639.	9270.	0.841	0.1739	0.0896	1.9413	0.6461	3.5127
1194.	2933.	9770.	0.862	0.1745	0.0925	1.8867	0.6290	3.3311
1222.	3150.	10270.	0.882	0.1752	0.0930	1.8840	0.6292	3.2500
1253.	3490.	10870.	0.905	0.1763	0.0952	1.8513	0.6204	3.1146
1276.	3640.	11300.	0.921	0.1768	0.0941	1.8791	0.6304	3.1044

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	KFM	TH/HP
0.725	1567.	6655.	822.	1004.	0.1681	0.0831	2.023	0.662	4.247
0.750	1769.	7188.	850.	1039.	0.1696	0.0847	2.002	0.658	4.063
0.775	1988.	7746.	878.	1073.	0.1712	0.0863	1.984	0.655	3.897
0.800	2222.	8336.	907.	1108.	0.1729	0.0877	1.972	0.654	3.751
0.825	2485.	8933.	935.	1143.	0.1742	0.0894	1.949	0.649	3.595
0.850	2763.	9494.	963.	1177.	0.1744	0.0909	1.919	0.640	3.436
0.875	3078.	10095.	992.	1212.	0.1748	0.0928	1.883	0.628	3.276
0.900	3391.	10729.	1020.	1247.	0.1758	0.0940	1.871	0.626	3.164

STATIC PROP PERFORMANCE

XC-142A(12FE16A3-4A) RPM IN 49 WALLS DOWN

RE TA=26.0 AF= 86.0 DIA=15.625 INCL=4 TEMPC= 19.5 TEMPR= 526.79 SIGMA=C.9680

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
739.	696.	3721.	0.537	0.1735	0.0926	1.8742	0.6230	5.3463
807.	944.	4550.	0.587	0.1779	0.0964	1.8452	0.6211	4.8199
864.	1178.	5245.	0.528	0.1789	0.0981	1.8249	0.6160	4.4525
924.	1472.	5995.	0.072	0.1788	0.1002	1.7852	0.6024	4.0727
971.	1730.	6630.	0.706	0.1791	0.1015	1.7653	0.5961	3.8324
1024.	2072.	7520.	0.744	0.1826	0.1036	1.7630	0.6013	3.6293
1053.	2272.	7960.	0.765	0.1828	0.1045	1.7501	0.5971	3.5035
1073.	2438.	8345.	0.780	0.1824	0.1060	1.7214	0.5866	3.3819
1103.	2634.	8825.	0.802	0.1847	0.1074	1.7204	0.5901	3.2880
1124.	2870.	9200.	0.817	0.1855	0.1085	1.7092	0.5874	3.2056
1144.	3048.	9695.	0.832	0.1887	0.1093	1.7262	0.5983	3.1808
1157.	3175.	9920.	0.841	0.1887	0.1101	1.7148	0.5945	3.1244
1174.	3360.	10150.	0.853	0.1894	0.1115	1.6989	0.5900	3.0506

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1896.	7059.	816.	997.	0.1807	0.1026	1.762	0.598	3.723
0.750	2124.	7604.	844.	1032.	0.1819	0.1038	1.752	0.596	3.580
0.775	2381.	8180.	872.	1066.	0.1832	0.1054	1.738	0.594	3.436
0.800	2663.	8761.	900.	1101.	0.1842	0.1072	1.718	0.588	3.290
0.825	2967.	9465.	929.	1135.	0.1871	0.1089	1.718	0.593	3.190
0.850	3307.	10171.	957.	1169.	0.1894	0.1110	1.706	0.593	3.075

STATIC PROP PERFORMANCE

XC-142A(2FF16A3-6A) RUN NO 35 WALLS DOWN

BFIA=18.0 AF= 8.0 DIA=15.625 NAL=4 TEMPC= 22.1 TEMPR= 531.47 SIGMA=0.9540

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
737.	261.	4028.	0.533	0.1889	0.1155	1.5356	0.5672	4.6783
847.	1248.	5390.	0.613	0.1913	0.1191	1.5066	0.5608	3.9985
901.	1634.	6040.	0.652	0.1895	0.1199	1.5799	0.5488	3.6965
982.	2157.	7260.	0.711	0.1917	0.1223	1.5679	0.5479	3.3658
1102.	3160.	9250.	0.797	0.1940	0.1268	1.5302	0.5378	2.9272
1110.	3286.	9525.	0.803	0.1969	0.1291	1.5254	0.5401	2.8969

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2325.	7590.	820.	1002.	0.1926	0.1241	1.551	0.543	3.264
0.750	2502.	8160.	848.	1036.	0.1935	0.1255	1.542	0.541	3.136
0.775	2899.	8756.	876.	1071.	0.1944	0.1267	1.534	0.540	3.020
0.800	3217.	9376.	904.	1106.	0.1954	0.1278	1.529	0.539	2.915

STATIC PUMP PERFORMANCE

XC-142A(2FE14A3-4A) RUN #1 27 WALLS DOWN

WETA=20.0 AF=27.0 DIA=15.475 IPI=4 TEMPC=26.0 TEMPR=538.49 SIGMA=0.9380

***** RAW DATA POINTS *****

RPM	HP	TH	TVACH	RCT	RCP	RCT/CP	RFM	RTH/HP
733.	945.	4117.	0.527	0.1951	0.1288	1.5149	0.5340	4.3566
802.	1272.	4948.	0.575	0.1969	0.1334	1.4762	0.5227	3.8899
857.	1568.	5765.	0.616	0.1999	0.1337	1.4947	0.5333	3.6767
921.	1940.	6505.	0.662	0.1953	0.1333	1.4650	0.5166	3.3531
974.	2240.	7400.	0.700	0.1987	0.1360	1.4612	0.5197	3.1624
1025.	2746.	8235.	0.737	0.1996	0.1369	1.4582	0.5199	2.9989
1077.	3210.	9175.	0.774	0.2014	0.1388	1.4512	0.5198	2.8406

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2410.	7953.	825.	1008.	0.1992	0.1366	1.458	0.519	3.047
0.750	2912.	8556.	853.	1043.	0.2002	0.1377	1.454	0.519	2.938

STATIC PROP PERFORMANCE

XC-142A(2011613-4A) ROT N=1192 WALLS DOWN (WITH TABS)

RETA= 8.0 AF= 96.0 DIA=15.625 NOL=4 TEMPC= 25.0 TEMPR= 535.69 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
749.	304.	2530.	0.529	0.1149	0.0388	2.9570	0.7997	8.3224
855.	463.	3284.	0.616	0.1145	0.0402	2.9495	0.7696	7.0255
981.	739.	4335.	0.706	0.1160	0.0420	2.7613	0.7506	5.9337
1101.	1085.	5649.	0.793	0.1187	0.0436	2.7193	0.7476	5.2065
1134.	1204.	6071.	0.817	0.1202	0.0443	2.7125	0.7506	5.0424
1160.	1295.	6366.	0.835	0.1205	0.0445	2.7051	0.7493	4.9158
1192.	1427.	6703.	0.858	0.1201	0.0452	2.6561	0.7347	4.6973
1219.	1561.	7146.	0.878	0.1225	0.0463	2.6472	0.7393	4.5778
1253.	1715.	7504.	0.902	0.1217	0.0468	2.5993	0.7237	4.3730
1281.	1871.	7779.	0.922	0.1207	0.0478	2.5265	0.7005	4.1577
1322.	2107.	8053.	0.952	0.1174	0.0490	2.3969	0.6552	3.8220
1344.	2233.	8263.	0.968	0.1165	0.0494	2.3592	0.6426	3.7004
1380.	2433.	8453.	0.994	0.1130	0.0497	2.2744	0.6102	3.4743
1407.	2631.	8769.	1.013	0.1128	0.0507	2.2246	0.5962	3.3330
1447.	2887.	8980.	1.042	0.1092	0.0512	2.1351	0.5631	3.1105
1463.	3052.	9233.	1.057	0.1091	0.0518	2.1067	0.5553	3.0252

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	808.	4644.	824.	1007.	0.1167	0.0425	2.745	0.748	5.748
0.750	906.	5004.	852.	1041.	0.1175	0.0430	2.730	0.747	5.525
0.775	1011.	5363.	880.	1076.	0.1184	0.0435	2.719	0.746	5.326
0.800	1122.	5772.	909.	1111.	0.1191	0.0440	2.710	0.746	5.143
0.825	1244.	6163.	937.	1146.	0.1200	0.0444	2.701	0.746	4.969
0.850	1322.	6514.	965.	1190.	0.1209	0.0451	2.690	0.744	4.786
0.875	1534.	7043.	974.	1215.	0.1215	0.0459	2.646	0.736	4.590
0.900	1705.	7462.	1022.	1250.	0.1217	0.0469	2.595	0.722	4.376
0.925	1894.	7771.	1031.	1285.	0.1203	0.0480	2.507	0.694	4.114
0.950	2095.	8069.	1079.	1319.	0.1181	0.0488	2.422	0.664	3.870
0.975	2289.	8313.	1108.	1354.	0.1155	0.0495	2.333	0.633	3.632
1.000	2499.	8568.	1136.	1389.	0.1132	0.0501	2.259	0.606	3.429

STATIC PROP PERFORMANCE

XC-142A(2FE16A3-4A) RUN NO 179 WALLS DOWN (WITH TABS)

BETA=10.0 AF= 80.0 DIA=15.625 NBL=4 T=PC= 24.0 T=PR= 334.89 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TNACH	RCT	RCP	RCT/CP	RFM	RTH/HP
738.	381.	2887.	0.532	0.1350	0.0509	2.6528	0.7778	7.5774
865.	613.	3975.	0.623	0.1359	0.0512	2.6547	0.7810	6.4845
983.	999.	5303.	0.713	0.1384	0.0556	2.4879	0.7385	5.3083
1102.	1473.	6841.	0.795	0.1435	0.0591	2.4278	0.7338	4.6443
1129.	1597.	7217.	0.814	0.1442	0.0596	2.4203	0.7334	4.5191
1160.	1743.	7636.	0.837	0.1445	0.0601	2.4038	0.7293	4.3684
1195.	1952.	8263.	0.862	0.1474	0.0614	2.3996	0.7351	4.2331
1235.	2228.	8870.	0.891	0.1481	0.0635	2.3324	0.7163	3.9811
1237.	2261.	8888.	0.892	0.1479	0.0641	2.3067	0.7080	3.9310
1253.	2345.	9017.	0.904	0.1463	0.0640	2.2856	0.6975	3.8452
1284.	2582.	9330.	0.926	0.1441	0.0655	2.2010	0.6668	3.6135
1320.	2838.	9707.	0.952	0.1419	0.0662	2.1417	0.6438	3.4204
1352.	3024.	10021.	0.975	0.1396	0.0659	2.1183	0.6316	3.3029
1377.	3255.	10272.	0.993	0.1380	0.0669	2.0614	0.6110	3.1558
1406.	3452.	10648.	1.014	0.1372	0.0675	2.0338	0.6011	3.0493

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POINT 2ND ORDER)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1061.	5535.	822.	1005.	0.1396	0.0561	2.488	0.742	5.219
0.750	1197.	5973.	851.	1040.	0.1407	0.0571	2.462	0.737	4.992
0.775	1243.	6433.	879.	1074.	0.1419	0.0581	2.441	0.734	4.789
0.800	1503.	6917.	907.	1109.	0.1432	0.0592	2.421	0.731	4.601
0.825	1671.	7435.	936.	1144.	0.1447	0.0600	2.414	0.733	4.449
0.850	1853.	7957.	964.	1178.	0.1459	0.0608	2.401	0.732	4.294
0.875	2075.	8516.	992.	1213.	0.1474	0.0624	2.362	0.724	4.105
0.900	2321.	9084.	1021.	1248.	0.1470	0.0641	2.291	0.701	3.871
0.925	2570.	9316.	1049.	1282.	0.1443	0.0654	2.205	0.668	3.624
0.950	2804.	9666.	1077.	1317.	0.1419	0.0659	2.153	0.647	3.447
0.975	3059.	10023.	1106.	1352.	0.1397	0.0665	2.101	0.627	3.277
1.000	3327.	10406.	1134.	1386.	0.1379	0.0670	2.057	0.609	3.127

STATIC PROP PERFORMANCE

XC-142A(2F-16A3-4A)RUM 101.0 WALLS 00.0M (WITH TARS)

BETA=14.0 AF= 86.0 DIA=15.525 NBL=4 TEMPC= 24.0 TEMPH= 534.89 SIGMA=0.9580

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
725.	577.	3591.	0.523	0.1740	0.0813	2.1404	0.7125	6.2236
863.	1020.	5168.	0.623	0.1767	0.0852	2.0742	0.6958	5.0667
980.	1573.	6890.	0.707	0.1827	0.0897	2.0363	0.6946	4.3802
1106.	2464.	9125.	0.798	0.1900	0.0978	1.9430	0.6758	3.7033
1107.	2453.	9145.	0.800	0.1894	0.0981	1.9298	0.6702	3.6683
1127.	2631.	9480.	0.813	0.1901	0.0987	1.9263	0.6702	3.6032
1158.	2856.	9918.	0.835	0.1884	0.1001	1.8813	0.6516	3.4247
1193.	3163.	10461.	0.861	0.1872	0.1000	1.8717	0.6462	3.3073
1232.	3520.	11025.	0.899	0.1850	0.1011	1.8305	0.6283	3.1321
1239.	3609.	11192.	0.894	0.1857	0.1019	1.8227	0.6268	3.1011

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1745.	7295.	822.	1005.	0.1839	0.0923	1.993	0.662	4.180
0.750	1974.	7385.	951.	1040.	0.1858	0.0943	1.971	0.678	3.995
0.775	2221.	8505.	979.	1074.	0.1876	0.0962	1.952	0.715	3.829
0.800	2494.	9166.	907.	1109.	0.1898	0.0981	1.934	0.672	3.676
0.825	2767.	9713.	926.	1144.	0.1891	0.0993	1.905	0.661	3.511
0.850	3050.	10239.	954.	1178.	0.1878	0.1001	1.877	0.649	3.357
0.875	3355.	10759.	992.	1213.	0.1864	0.1009	1.847	0.636	3.209

STATIC PROP PERFORMANCE

XC-142A(2F216A)---(A)RUF 10 181 WALLS ONLY (WITH TABS)

REF A=15.0 AF= 55.0 DIA=15.75 NBL=4 TEMPC= 45.2 TEMPR= 537.05 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	KCP	RCT/CP	RFM	RTH/HP
739.	914.	4347.	0.542	0.2027	0.1216	1.6673	0.5990	4.7560
802.	1190.	5106.	0.577	0.2022	0.1238	1.6324	0.5857	4.2908
861.	1492.	5837.	0.620	0.2022	0.1255	1.6116	0.5784	3.9457
925.	1891.	6836.	0.667	0.2030	0.1279	1.5880	0.5710	3.6150
983.	2274.	7638.	0.708	0.2013	0.1285	1.5663	0.5608	3.3588
1046.	2822.	8773.	0.753	0.2043	0.1324	1.5434	0.5567	3.1106
1091.	3245.	9558.	0.785	0.2045	0.1342	1.5244	0.5501	2.9455

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2485.	8087.	824.	1007.	0.2031	0.1306	1.555	0.559	3.254
0.750	2732.	8679.	852.	1042.	0.2036	0.1321	1.542	0.555	3.120
0.775	3102.	9297.	881.	1077.	0.2043	0.1335	1.530	0.552	2.997

STATIC PROP PERFORMANCE

C-119(2J17G3-250) RUN NO 123 WINGS DOWN

BLTA= 2.0 AF=122.0 DIA=14.917 NOL=4 TEMPC= 22.8 TEMPR= 532.73 SIGMA=0.9580

***** FAN DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCF	RCT/CF	KFM	RTH/HP
778.	141.	1170.	0.537	0.0503	0.0203	2.9237	0.5680	8.2979
892.	215.	1375.	0.616	0.0607	0.0206	2.9456	0.5791	7.2917
1021.	331.	2005.	0.705	0.0590	0.0211	2.8009	0.5428	6.0574
1148.	475.	2506.	0.792	0.0563	0.0213	2.7429	0.5285	5.2758
1178.	511.	2611.	0.813	0.0577	0.0212	2.7259	0.5225	5.1096
1221.	573.	2753.	0.843	0.0567	0.0213	2.5616	0.5058	4.8133
1245.	608.	2861.	0.859	0.0566	0.0213	2.6532	0.5037	4.7056
1277.	659.	2956.	0.881	0.0556	0.0214	2.5941	0.4880	4.4856
1316.	731.	3112.	0.908	0.0551	0.0217	2.5381	0.4755	4.2585
1346.	784.	3228.	0.929	0.0546	0.0218	2.5098	0.4681	4.1173

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	361.	2131.	821.	1051.	0.0592	0.0211	2.806	0.545	5.897
0.750	401.	2464.	849.	1087.	0.0588	0.0212	2.777	0.537	5.641
0.775	444.	2599.	877.	1123.	0.0583	0.0212	2.748	0.529	5.403
0.800	489.	2532.	906.	1159.	0.0578	0.0212	2.719	0.521	5.178
0.825	537.	2677.	934.	1196.	0.0574	0.0213	2.700	0.516	4.987
0.850	588.	2802.	962.	1232.	0.0566	0.0213	2.660	0.505	4.768
0.875	646.	2933.	990.	1268.	0.0559	0.0214	2.608	0.492	4.542
0.900	708.	3068.	1019.	1304.	0.0553	0.0216	2.560	0.480	4.334
0.925	774.	3206.	1047.	1340.	0.0547	0.0218	2.513	0.469	4.140

STATIC PROP PERFORMANCE

C-119(2J17C3-20R) RPM NO 25 FALLS DOWN

BETA= 4.0 AF=122.0 DIA=14.917 TOL=4 TEMPC= 22.0 LMPR= 531.29 SIGMA=C.9600

***** RAW DATA POINTS *****

RPM	HP	TH	T/MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
772.	179.	1509.	0.533	0.0776	0.0263	2.9474	0.6553	8.4302
900.	279.	2019.	0.622	0.0764	0.0259	2.9496	0.6507	7.2366
1022.	415.	2623.	0.706	0.0770	0.0263	2.9254	0.6478	6.3205
1153.	598.	3269.	0.797	0.0754	0.0264	2.8545	0.6254	5.4666
1193.	648.	3414.	0.817	0.0748	0.0265	2.8226	0.6160	5.2685
1214.	703.	3581.	0.839	0.0745	0.0266	2.8006	0.6100	5.0939
1249.	761.	3727.	0.863	0.0732	0.0264	2.7703	0.5983	4.8975
1282.	832.	3914.	0.886	0.0730	0.0267	2.7313	0.5889	4.7043
1310.	881.	3997.	0.905	0.0714	0.0265	2.6916	0.5740	4.5369
1346.	962.	4185.	0.930	0.0708	0.0267	2.6518	0.5632	4.3503
1375.	1049.	4393.	0.950	0.0712	0.0273	2.6078	0.5554	4.1878
1412.	1152.	4580.	0.976	0.0704	0.0279	2.5204	0.5338	3.9415
1440.	1206.	4685.	0.995	0.0693	0.0285	2.4326	0.5109	3.7301
1466.	1366.	4830.	1.013	0.0689	0.0294	2.3475	0.4917	3.5359

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	449.	2738.	820.	1049.	0.0762	0.0263	2.899	0.639	6.100
0.750	498.	2917.	848.	1085.	0.0759	0.0264	2.877	0.632	5.852
0.775	551.	3100.	876.	1122.	0.0755	0.0264	2.856	0.626	5.623
0.800	607.	3293.	904.	1158.	0.0753	0.0265	2.843	0.623	5.423
0.825	666.	3471.	933.	1194.	0.0746	0.0265	2.818	0.614	5.211
0.850	731.	3654.	961.	1230.	0.0740	0.0266	2.785	0.605	5.001
0.875	797.	3820.	989.	1266.	0.0730	0.0266	2.743	0.593	4.793
0.900	867.	3978.	1017.	1303.	0.0719	0.0266	2.706	0.579	4.587
0.925	950.	4165.	1046.	1339.	0.0713	0.0268	2.660	0.567	4.387
0.950	1044.	4361.	1074.	1375.	0.0707	0.0272	2.600	0.552	4.176
0.975	1158.	4564.	1102.	1411.	0.0703	0.0279	2.518	0.533	3.941
1.000	1289.	4739.	1130.	1447.	0.0694	0.0288	2.410	0.506	3.677

STATIC PROP PERFORMANCE

C-119(2J1753-288) RUN NO 136 WLLS DOWN

BETA= 5.0 AL=120.0 CL=14.917 TOL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9600

***** RAW DATA RESULTS *****

RPM	HP	TH	FM	RCT	RCP	CT/CP	FM	TH/HP
750.	523.	1022.	0.529	0.0957	0.0336	2.8499	0.7036	8.2152
912.	369.	2560.	0.623	0.0965	0.0340	2.8340	0.7024	8.9377
1021.	532.	3264.	0.735	0.0961	0.0338	2.8404	0.7027	8.1429
1154.	764.	4260.	0.797	0.0935	0.0337	2.7773	0.6776	5.3141
1181.	824.	4247.	0.816	0.0934	0.0339	2.7567	0.6721	5.1541
1215.	907.	4518.	0.840	0.0937	0.0341	2.7432	0.6700	4.9813
1245.	967.	4705.	0.860	0.0931	0.0339	2.7434	0.6678	4.8656
1278.	1033.	4830.	0.883	0.0907	0.0335	2.7062	0.6502	4.6757
1314.	1129.	5101.	0.908	0.0905	0.0337	2.6887	0.6457	4.5182
1343.	1194.	5247.	0.928	0.0892	0.0334	2.6728	0.6370	4.3945
1379.	1331.	5559.	0.953	0.0896	0.0344	2.6084	0.6231	4.1766
1413.	1476.	5892.	0.976	0.0905	0.0354	2.5545	0.6132	3.9919
1444.	1603.	6059.	0.997	0.0892	0.0361	2.4701	0.5887	3.7798
1477.	1787.	6308.	1.021	0.0886	0.0375	2.3612	0.5610	3.5299

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PJINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	578.	3423.	820.	1049.	0.0953	0.0339	2.812	0.693	5.919
0.750	641.	3647.	848.	1085.	0.0949	0.0339	2.796	0.687	5.609
0.775	708.	3875.	876.	1122.	0.0944	0.0340	2.781	0.682	5.475
0.800	775.	4107.	904.	1158.	0.0939	0.0339	2.774	0.678	5.291
0.825	852.	4343.	933.	1194.	0.0934	0.0339	2.756	0.672	5.096
0.850	933.	4589.	961.	1230.	0.0930	0.0339	2.740	0.667	4.919
0.875	1014.	4810.	989.	1266.	0.0920	0.0338	2.721	0.658	4.745
0.900	1092.	5002.	1017.	1303.	0.0904	0.0335	2.701	0.648	4.579
0.925	1191.	5235.	1046.	1339.	0.0896	0.0336	2.664	0.636	4.395
0.950	1315.	5533.	1074.	1375.	0.0897	0.0343	2.620	0.626	4.208
0.975	1459.	5823.	1102.	1411.	0.0897	0.0352	2.550	0.609	3.991
1.000	1629.	6097.	1130.	1447.	0.0892	0.0354	2.453	0.585	3.743

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

C-119(20170-20) MACH 7.0000

OUTLINE: 112.0000 112.0000 112.0000 112.0000 112.0000 112.0000 112.0000 112.0000 112.0000 112.0000

***** DATA POINT *****

MACH	HP	TH	TIPS	RPM	CF	RCP	CT/CP	FM	RTH/HP
7.00	296.	4259.	820.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.05	306.	4334.	831.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.10	316.	4409.	842.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.15	326.	4484.	853.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.20	336.	4559.	864.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.25	346.	4634.	875.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.30	356.	4709.	886.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.35	366.	4784.	897.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.40	376.	4859.	908.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.45	386.	4934.	919.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.50	396.	5009.	930.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.55	406.	5084.	941.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.60	416.	5159.	952.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.65	426.	5234.	963.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.70	436.	5309.	974.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.75	446.	5384.	985.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.80	456.	5459.	996.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.85	466.	5534.	1007.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.90	476.	5609.	1018.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
7.95	486.	5684.	1029.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.00	496.	5759.	1040.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.05	506.	5834.	1051.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.10	516.	5909.	1062.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.15	526.	5984.	1073.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.20	536.	6059.	1084.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.25	546.	6134.	1095.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.30	556.	6209.	1106.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.35	566.	6284.	1117.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.40	576.	6359.	1128.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.45	586.	6434.	1139.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.50	596.	6509.	1150.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.55	606.	6584.	1161.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.60	616.	6659.	1172.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.65	626.	6734.	1183.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.70	636.	6809.	1194.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.75	646.	6884.	1205.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.80	656.	6959.	1216.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.85	666.	7034.	1227.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.90	676.	7109.	1238.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
8.95	686.	7184.	1249.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.00	696.	7259.	1260.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.05	706.	7334.	1271.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.10	716.	7409.	1282.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.15	726.	7484.	1293.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.20	736.	7559.	1304.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.25	746.	7634.	1315.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.30	756.	7709.	1326.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.35	766.	7784.	1337.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.40	776.	7859.	1348.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.45	786.	7934.	1359.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.50	796.	8009.	1370.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.55	806.	8084.	1381.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.60	816.	8159.	1392.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.65	826.	8234.	1403.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.70	836.	8309.	1414.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.75	846.	8384.	1425.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.80	856.	8459.	1436.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.85	866.	8534.	1447.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.90	876.	8609.	1458.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
9.95	886.	8684.	1469.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322
10.00	896.	8759.	1480.	1049.	0.1186	0.0444	2.7277	0.7572	7.8322

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CF	CP	CT/CP	FM	TH/HP
0.725	772.	4259.	820.	1049.	0.1186	0.0453	2.620	0.720	5.514
0.750	857.	4548.	848.	1085.	0.1183	0.0453	2.610	0.716	5.310
0.775	946.	4845.	876.	1122.	0.1181	0.0454	2.602	0.713	5.122
0.800	1040.	5154.	904.	1158.	0.1179	0.0454	2.599	0.712	4.957
0.825	1140.	5467.	933.	1194.	0.1176	0.0453	2.594	0.710	4.797
0.850	1247.	5780.	961.	1230.	0.1171	0.0453	2.593	0.705	4.636
0.875	1345.	6048.	989.	1266.	0.1156	0.0448	2.579	0.700	4.498
0.900	1450.	6338.	1017.	1303.	0.1143	0.0447	2.564	0.693	4.347
0.925	1559.	6632.	1046.	1339.	0.1143	0.0448	2.543	0.688	4.204
0.950	1673.	6930.	1074.	1375.	0.1149	0.0457	2.516	0.680	4.040
0.975	1795.	7231.	1102.	1411.	0.1150	0.0466	2.463	0.668	3.862
1.000	2133.	7843.	1130.	1447.	0.1148	0.0475	2.403	0.651	3.676

STATIC PROP PERFORMANCE

C-119(2J17G3-25R) RUN NO 128 WALLS DOWN

RETA=10.0 AF=120.0 DIA=14.917 NBL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9590

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
769.	392.	2792.	0.531	0.1447	0.0584	2.4805	0.7531	7.1224
895.	622.	3751.	0.619	0.1432	0.0585	2.4471	0.7391	6.0305
1027.	945.	4877.	0.710	0.1418	0.0591	2.4004	0.7212	5.1608
1152.	1331.	6105.	0.796	0.1411	0.0589	2.3934	0.7173	4.5875
1181.	1458.	6502.	0.816	0.1429	0.0599	2.3852	0.7196	4.4595
1217.	1589.	6899.	0.841	0.1428	0.0597	2.3926	0.7215	4.3411
1249.	1718.	7273.	0.863	0.1429	0.0597	2.3946	0.7224	4.2334
1282.	1866.	7648.	0.886	0.1427	0.0600	2.3796	0.7172	4.0986
1316.	1992.	7982.	0.909	0.1413	0.0593	2.3810	0.7142	3.9950
1346.	2149.	8336.	0.930	0.1411	0.0597	2.3646	0.7087	3.8790
1377.	2334.	8815.	0.951	0.1425	0.0605	2.3553	0.7096	3.7768
1410.	2586.	9357.	0.974	0.1443	0.0625	2.3105	0.7004	3.6183
1445.	2828.	9753.	0.998	0.1432	0.0635	2.2569	0.6815	3.4487
1474.	3062.	10024.	1.019	0.1414	0.0647	2.1853	0.6559	3.2737

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1009.	5092.	820.	1049.	0.1418	0.0591	2.399	0.721	5.048
0.750	1120.	5452.	848.	1085.	0.1419	0.0593	2.393	0.719	4.868
0.775	1239.	5827.	876.	1122.	0.1420	0.0594	2.389	0.719	4.704
0.800	1363.	6209.	904.	1158.	0.1420	0.0595	2.388	0.718	4.554
0.825	1497.	6619.	933.	1194.	0.1423	0.0595	2.390	0.720	4.421
0.850	1647.	7065.	961.	1230.	0.1431	0.0599	2.390	0.722	4.291
0.875	1791.	7460.	989.	1266.	0.1426	0.0597	2.389	0.720	4.166
0.900	1944.	7847.	1017.	1303.	0.1418	0.0596	2.380	0.715	4.036
0.925	2115.	8268.	1046.	1339.	0.1415	0.0597	2.370	0.711	3.910
0.950	2326.	8773.	1074.	1375.	0.1423	0.0606	2.369	0.707	3.772
0.975	2576.	9309.	1102.	1411.	0.1433	0.0621	2.309	0.698	3.613
1.000	2847.	9754.	1130.	1447.	0.1428	0.0636	2.245	0.677	3.426

STATIC PROP PERFORMANCE

C-119(2J17G3-268) RUN TO 129 CALLS DOWN

BETA=12.0 AF=122.0 CIA=16.017 WLE=4 TAPC= 21.0 TAPR= 330.39 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCI	RCP	RCI/CP	KFM	RTH/HP
775.	511.	3520.	0.535	0.1697	0.0743	2.2838	0.7508	6.5068
896.	795.	4405.	0.520	0.1682	0.0748	2.2484	0.7259	5.5409
1022.	1191.	5735.	0.777	0.1683	0.0755	2.2287	0.7297	4.8153
1152.	1728.	7377.	0.797	0.1704	0.0765	2.2273	0.7337	4.2691
1189.	1939.	7980.	0.822	0.1731	0.0781	2.2161	0.7357	4.1155
1214.	2052.	8229.	0.840	0.1712	0.0776	2.2048	0.7280	4.0102
1252.	2282.	8873.	0.866	0.1735	0.0787	2.2047	0.7329	3.8883
1281.	2468.	9288.	0.886	0.1735	0.0795	2.1833	0.7258	3.7634
1303.	2632.	9683.	0.905	0.1735	0.0796	2.1793	0.7244	3.6790
1343.	2834.	10161.	0.929	0.1727	0.0792	2.1827	0.7232	3.5854
1378.	3142.	10869.	0.953	0.1758	0.0813	2.1628	0.7237	3.4656
1403.	3417.	11367.	0.974	0.1758	0.0829	2.1212	0.7097	3.3266
1445.	3817.	12552.	1.000	0.1767	0.0855	2.0677	0.6936	3.1575
1475.	4168.	12426.	1.020	0.1751	0.0879	1.9915	0.6650	2.9813

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CI	CP	CT/CP	FM	TH/HP
0.725	1294.	6361.	819.	1048.	0.1691	0.0760	2.224	0.730	4.684
0.750	1441.	6508.	847.	1084.	0.1696	0.0765	2.218	0.729	4.516
0.775	1599.	6975.	875.	1121.	0.1703	0.0769	2.214	0.729	4.363
0.800	1764.	7460.	904.	1157.	0.1709	0.0771	2.215	0.731	4.230
0.825	1945.	7977.	932.	1193.	0.1718	0.0776	2.215	0.733	4.101
0.850	2150.	8514.	960.	1229.	0.1728	0.0784	2.205	0.731	3.961
0.875	2366.	9047.	989.	1265.	0.1733	0.0791	2.191	0.728	3.824
0.900	2584.	9580.	1016.	1301.	0.1734	0.0794	2.185	0.726	3.707
0.925	2820.	10134.	1045.	1338.	0.1737	0.0798	2.176	0.724	3.593
0.950	3097.	10751.	1073.	1374.	0.1747	0.0809	2.160	0.720	3.472
0.975	3430.	11398.	1101.	1410.	0.1758	0.0829	2.12.	0.710	3.322
1.000	3819.	11996.	1129.	1446.	0.1759	0.0855	2.057	0.688	3.141

STATIC PROP PERFORMANCE

C-119(2J17G2-2GR) RUN 10 12 WALLS DOWN

META=14.0 AF=122.0 DIA=14.917 VOL=4 TEMPC= 24.2 TEMPA= 535.25 SIGMA=0.9520

***** RAW DATA PLOTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
763.	618.	3700.	0.529	0.1923	0.0924	2.0824	0.7287	5.9871
893.	997.	5055.	0.619	0.1918	0.0929	2.0643	0.7213	5.0702
1023.	1492.	6332.	0.704	0.1914	0.0943	2.0283	0.7080	4.3780
1157.	2237.	8485.	0.796	0.1942	0.0978	1.9863	0.6985	3.7908
1281.	2295.	8885.	0.813	0.1953	0.0984	1.9642	0.6997	3.7098
1219.	2658.	9522.	0.839	0.1964	0.0993	1.9773	0.6993	3.5816
1249.	2872.	10049.	0.860	0.1975	0.0998	1.9792	0.7019	3.4990
1284.	3155.	10617.	0.884	0.1973	0.1009	1.9555	0.6932	3.3629
1321.	3524.	11450.	0.909	0.2012	0.1035	1.9438	0.6957	3.2491
1349.	3775.	11975.	0.929	0.2017	0.1040	1.9406	0.6956	3.1764

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1649.	6960.	623.	1053.	0.1924	0.0956	2.012	0.704	4.220
0.750	1843.	7476.	851.	1089.	0.1931	0.0965	2.001	0.702	4.056
0.775	2052.	8016.	879.	1126.	0.1939	0.0974	1.992	0.700	3.907
0.800	2270.	8569.	908.	1162.	0.1945	0.0979	1.987	0.699	3.775
0.825	2512.	9168.	936.	1198.	0.1957	0.0988	1.981	0.699	3.650
0.850	2764.	9771.	964.	1235.	0.1965	0.0994	1.977	0.699	3.536
0.875	3056.	10427.	993.	1271.	0.1979	0.1008	1.964	0.697	3.412
0.900	3375.	11128.	1021.	1307.	0.1996	0.1023	1.952	0.696	3.297
0.925	3725.	11875.	1049.	1344.	0.2017	0.1040	1.940	0.695	3.188

STATIC PROP PERFORMANCE

C-119(2J1763-20P) RUN NO 111 WALLS DOWN

BETA=15.0 AF=122.0 DIA=14.917 VFL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=C.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TPACH	RCT	RCP	RCT/CP	RFM	RTH/HP
773.	766.	4178.	0.531	0.2144	0.1123	1.9094	0.7055	5.4543
898.	1241.	5675.	0.617	0.2158	0.1160	1.8597	0.6893	4.5729
943.	1449.	6285.	0.648	0.2167	0.1170	1.8524	0.6881	4.3375
1022.	1653.	7321.	0.703	0.2149	0.1175	1.8284	0.6763	3.9504
1095.	2330.	8438.	0.753	0.2158	0.1201	1.7959	0.6657	3.6215
1155.	2078.	9580.	0.794	0.2202	0.1234	1.7846	0.6682	3.4117
1183.	3058.	10105.	0.813	0.2214	0.1254	1.7646	0.6625	3.2937
1216.	3380.	10760.	0.836	0.2231	0.1273	1.7531	0.6608	3.1834
1242.	3645.	11290.	0.854	0.2244	0.1288	1.7422	0.6586	3.0974

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2056.	7815.	824.	055.	0.2155	0.1187	1.815	0.672	3.801
0.750	2309.	8412.	852.	1091.	0.2167	0.1204	1.803	0.669	3.644
0.775	2582.	9033.	880.	1127.	0.2179	0.1220	1.786	0.665	3.499
0.800	2887.	9718.	909.	1164.	0.2200	0.1240	1.774	0.664	3.366
0.825	3223.	10432.	937.	1200.	0.2221	0.1263	1.759	0.661	3.237
0.850	3583.	11183.	966.	1236.	0.2243	0.1285	1.745	0.660	3.117

STATIC PROP PERFORMANCE

C-119(CJ17C)-2581 4000 130 BALLS DOWN

BETA=18.0 AF=122.0 CIA=14.917 URL=4 TEMPC= 24.5 T. KPR= 535.79 SIGMA=0.9510
***** MAX DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	KTH/HP
769.	935.	4223.	0.529	0.2345	0.1392	1.4847	0.6510	4.8374
900.	1539.	6462.	0.619	0.2332	0.1429	1.6320	0.6289	4.0039
949.	1877.	6815.	0.653	0.2320	0.1431	1.6209	0.6230	3.7714
1025.	2309.	7970.	0.705	0.2326	0.1451	1.6023	0.6166	3.4517
1100.	2950.	9320.	0.757	0.2361	0.1500	1.5739	0.6103	3.1593
1151.	3431.	10305.	0.792	0.2385	0.1523	1.5656	0.6101	3.0035

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	KPM	CT	CP	CT/CP	FM	TH/HP
0.725	2553.	8496.	623.	1054.	0.2346	0.1480	1.585	0.613	3.321
0.750	2862.	9130.	651.	1090.	0.2358	0.1496	1.576	0.611	3.193
0.775	3189.	9814.	680.	1120.	0.2372	0.1511	1.570	0.610	3.078

STATIC PROP PERFORMANCE

C-119(201701-208) RUN NO 133 FALLS DOWN

BETA=20.0 AF=12.0 LIA=14.917 RUL=4 TEMPC= 23.2 TEMPR= 533.45 SIGMA=0.9540

***** RAW DATA POINTS *****

RPM	THP	TH	FMACH	RCT	RCP	ACT/CP	RFM	RTH/HP
764.	3111.	4655.	0.527	0.2445	0.1687	1.4497	0.5720	4.1899
848.	1513.	3640.	0.585	0.2405	0.1665	1.4269	0.5583	3.7154
895.	1817.	6290.	0.617	0.2407	0.1716	1.4031	0.5494	3.4618
943.	2137.	6965.	0.650	0.2401	0.1725	1.3919	0.5443	3.2592
1025.	2715.	8075.	0.703	0.2380	0.1732	1.3739	0.5348	2.9742
1054.	3127.	8570.	0.734	0.2402	0.1757	1.3668	0.5346	2.8366

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	3104.	8633.	821.	1051.	0.2394	0.1750	1.369	0.534	2.874

STATIC PROP PERFORMANCE

2FF15A1-4A 11FE056 RUN NO 264 FALLS DOWN 30000 FT-LB

RETA=11.9 MP= -0. DIA=15.625 NBL=4 TEMPC= 7.0 TEMPR= 304.29 SIGMA=1.0080

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
745.	559.	3522.	0.553	0.1616	0.0726	2.2267	0.7143	6.3005
870.	895.	4861.	0.646	0.1636	0.0730	2.2415	0.7234	5.4313
950.	1133.	5853.	0.706	0.1652	0.0741	2.2297	0.7231	4.9475
1050.	1655.	7520.	0.780	0.1737	0.0768	2.2619	0.7523	4.5411
1054.	1679.	7440.	0.783	0.1706	0.0769	2.2169	0.7306	4.4338
1151.	2301.	9325.	0.855	0.1793	0.0810	2.2127	0.7476	4.0526
1155.	2325.	9275.	0.858	0.1771	0.0810	2.1850	0.7338	3.9880
1248.	3068.	11290.	0.927	0.1846	0.0847	2.1786	0.7470	3.6799
1254.	3149.	11260.	0.932	0.1824	0.0857	2.1271	0.7249	3.5757
1295.	3563.	12004.	0.963	0.1820	0.0880	2.0684	0.7042	3.3643
1350.	4103.	12748.	1.003	0.1781	0.0895	1.9897	0.6702	3.1070
1407.	4680.	13442.	1.045	0.1729	0.0902	1.9171	0.6362	2.8722
1431.	4943.	13740.	1.063	0.1709	0.0906	1.8869	0.6225	2.7797

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1294.	6260.	798.	976.	0.1674	0.0747	2.240	0.731	4.838
0.750	1456.	6781.	826.	1010.	0.1694	0.0759	2.231	0.733	4.659
0.775	1631.	7334.	853.	1043.	0.1716	0.0771	2.225	0.736	4.496
0.800	1811.	7899.	881.	1077.	0.1735	0.0779	2.228	0.740	4.361
0.825	2021.	8506.	909.	1111.	0.1757	0.0792	2.217	0.741	4.208
0.850	2250.	9141.	936.	1144.	0.1778	0.0806	2.205	0.742	4.063
0.875	2494.	9817.	964.	1178.	0.1802	0.0819	2.199	0.745	3.937
0.900	2758.	10462.	991.	1211.	0.1815	0.0836	2.172	0.739	3.780
0.925	3055.	11103.	1019.	1245.	0.1824	0.0852	2.140	0.729	3.623
0.950	3332.	11737.	1046.	1279.	0.1828	0.0858	2.105	0.718	3.470
0.975	3726.	12225.	1074.	1312.	0.1808	0.0885	2.043	0.693	3.281
1.000	4056.	12694.	1101.	1346.	0.1784	0.0895	1.993	0.672	3.122

STATIC PROP PERFORMANCE

FL/AL-4A 24FE866 RUN NO 274 WALLS DOWN 30000 FT-LB

BETA=14.0 AF= -0. DIA=15.625 NDL=+ LOPC= 1.5 TEMPR= 494.39 SIGMA=1.0240

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	KCT/CP	RFM	RTH/HP
751.	723.	4199.	0.503	0.1896	0.0923	2.0548	0.7140	5.7679
801.	877.	4735.	0.601	0.1880	0.0916	2.0519	0.7100	5.4002
850.	1069.	5489.	0.628	0.1928	0.0935	2.0629	0.7228	5.1160
894.	1250.	6005.	0.671	0.1914	0.0939	2.0377	0.7114	4.8048
945.	1522.	6885.	0.711	0.1951	0.0959	2.0343	0.7171	4.5237
995.	1798.	7715.	0.747	0.1981	0.0977	2.0273	0.7200	4.2909
1048.	2142.	8691.	0.786	0.2015	0.0999	2.0171	0.7226	4.0574
1095.	2490.	9669.	0.822	0.2054	0.1018	2.0168	0.7293	3.8827
1147.	3016.	10840.	0.861	0.2098	0.1073	1.9556	0.7149	3.5942
1198.	3569.	12109.	0.899	0.2149	0.1114	1.9281	0.7132	3.3928
1250.	4187.	13184.	0.938	0.2149	0.1151	1.8671	0.6907	3.1489
1300.	4859.	13916.	0.975	0.2097	0.1187	1.7662	0.6454	2.8640
1320.	4961.	14209.	0.990	0.2077	0.1158	1.7935	0.6522	2.8641
1321.	4985.	14258.	0.991	0.2081	0.1161	1.7923	0.6524	2.8602

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1622.	7179.	791.	966.	0.1958	0.0965	2.029	0.717	4.427
0.750	1807.	7775.	818.	1000.	0.1982	0.0972	2.040	0.725	4.302
0.775	2033.	8405.	845.	1033.	0.2006	0.0990	2.026	0.724	4.134
0.800	2273.	9060.	872.	1066.	0.2030	0.1007	2.016	0.725	3.986
0.825	2554.	9807.	900.	1100.	0.2066	0.1031	2.003	0.726	3.840
0.850	2863.	10532.	927.	1133.	0.2090	0.1057	1.977	0.721	3.679
0.875	3208.	11360.	954.	1166.	0.2127	0.1086	1.959	0.721	3.541
0.900	3606.	12125.	981.	1200.	0.2146	0.1122	1.913	0.707	3.362
0.925	3985.	12791.	1009.	1233.	0.2143	0.1142	1.877	0.693	3.209
0.950	4385.	13446.	1036.	1266.	0.2136	0.1160	1.842	0.679	3.066
0.975	4765.	13951.	1063.	1299.	0.2104	0.1166	1.805	0.561	2.928

STATIC PUMP PERFORMANCE

2F015A1-44 11F0055 RPM 10 265 FALLS NOV 71 00000 FT-LB

BETA=15.0 AF= -0. JIA=15.625 NBL=4 T-MPC= 6.5 IFMPR= 503.39 SIGMA=1.0100

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
750.	920.	4976.	0.562	0.2173	0.1143	1.9007	0.7070	5.3000
850.	1407.	6445.	0.642	0.2218	0.1175	1.8869	0.7091	4.5091
950.	1959.	8094.	0.708	0.2274	0.1219	1.8659	0.7101	4.1317
1050.	2753.	10297.	0.782	0.2370	0.1290	1.8365	0.7134	3.5801
1100.	3382.	11584.	0.818	0.2438	0.1364	1.7873	0.7043	3.4252
1147.	4001.	12847.	0.853	0.2487	0.1423	1.7471	0.6953	3.2109
1201.	4663.	13985.	0.893	0.2469	0.1447	1.7069	0.6768	2.9959
1220.	4917.	14355.	0.907	0.2456	0.1454	1.6897	0.6683	2.9197

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2133.	8581.	798.	975.	0.2239	0.1236	1.860	0.712	4.022
0.750	2430.	9320.	825.	1009.	0.2333	0.1271	1.835	0.707	3.835
0.775	2757.	10104.	853.	1042.	0.2369	0.1307	1.812	0.704	3.665
0.800	3096.	10936.	880.	1076.	0.2406	0.1335	1.803	0.706	3.532
0.825	3437.	11804.	908.	1110.	0.2442	0.1371	1.782	0.703	3.385
0.850	3837.	12603.	935.	1143.	0.2456	0.1400	1.754	0.694	3.234
0.875	4335.	13401.	963.	1177.	0.2465	0.1428	1.726	0.684	3.091
0.900	4802.	14199.	990.	1210.	0.2468	0.1454	1.698	0.673	2.957

STATIC PROP PERFORMANCE

REFLECTOR 24F1355 RPM 11.275 WALLS 0041 30000 FT-13

REFLECTOR 24F1355 RPM 11.275 WALLS 0041 30000 FT-13

***** DATA POINTS *****

RPM	HP	TH	INACH	RCT	PCP	RCT/CP	RFM	RTH/HP
755	1203	5420	0.566	0.2422	0.1508	1.6056	0.6305	4.4830
802	1453	6122	0.602	0.2436	0.1529	1.5933	0.6275	4.1879
849	1759	6934	0.637	0.2450	0.1535	1.5958	0.6303	3.9623
900	2142	7910	0.675	0.2487	0.1577	1.5766	0.6274	3.6928
950	2564	8847	0.713	0.2508	0.1606	1.5620	0.6242	3.4661
1003	3124	10205	0.753	0.2593	0.1662	1.5543	0.6304	3.2666
1047	3642	11279	0.786	0.2620	0.1704	1.5382	0.6283	3.0969
1093	4335	12500	0.825	0.2636	0.1755	1.5022	0.6155	2.8815
1150	5102	13770	0.863	0.2652	0.1801	1.4724	0.6050	2.5989

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2732	9326	791	966	0.2544	0.1626	1.565	0.630	3.413
0.750	3035	10384	818	1000	0.2570	0.1658	1.550	0.627	3.269
0.775	3453	10397	845	1033	0.2501	0.1689	1.540	0.627	3.142
0.800	3849	11698	872	1066	0.2620	0.1722	1.521	0.622	3.008
0.825	4345	12515	900	1100	0.2656	0.1755	1.502	0.616	2.880
0.850	4847	13349	927	1133	0.2649	0.1786	1.483	0.609	2.760

STATIC PROP PERFORMANCE

UFF15A1-4A 11FER65 RUN TO 256 MILES DG. 1 30000 FT-LR

BETA=20.0 AF= -0. DIA=15.675 NBL=4 TEMPC= 5.0 THPR= 500.69 SIGMA=1.0150

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
550.	915.	4236.	0.485	0.2553	0.1789	1.4275	0.5756	4.6295
709.	1200.	5074.	0.529	0.2571	0.1808	1.4221	0.5754	4.2283
751.	1456.	5764.	0.560	0.2603	0.1845	1.4103	0.5742	3.9588
807.	1806.	6601.	0.602	0.2581	0.1845	1.3992	0.5673	3.6550
854.	2151.	7463.	0.637	0.2606	0.1863	1.3991	0.5639	3.4535
939.	2550.	8276.	0.670	0.2608	0.1884	1.3841	0.5640	3.2455
948.	3036.	9261.	0.707	0.2624	0.1913	1.3718	0.5608	3.0504
999.	3604.	10345.	0.745	0.2540	0.1941	1.3603	0.5577	2.8704
1055.	4343.	11626.	0.787	0.2655	0.1982	1.3394	0.5508	2.6739
1100.	5015.	12709.	0.820	0.2575	0.2023	1.3221	0.5457	2.5337

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	3296.	9754.	796.	972.	0.2530	0.1924	1.367	0.559	2.963
0.750	3596.	10491.	823.	1006.	0.2640	0.1949	1.355	0.555	2.839
0.775	4132.	11251.	850.	1039.	0.2652	0.1975	1.343	0.552	2.723
0.800	4603.	12043.	878.	1075.	0.2664	0.2000	1.332	0.549	2.616

2EFF16A1-4A 10JAN66 RUP NO 133 WALLS DOWN 15000 SHAF

BF1A= 0. AF= -0. DIA=15.625 JPL=4 TEMPC= -2.0 TEMPR= 488.09 SIGMA=1.0500

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	CT	CT/CP	FFM	RTH/HP
648.	87.	800.	0.489	0.0485	0.0172	2.8266	0.4969	9.1954
722.	112.	914.	0.530	0.0472	0.0174	2.7176	0.4713	8.1607
753.	144.	1032.	0.559	0.0466	0.0181	2.5748	0.4437	7.2083
799.	172.	1162.	0.603	0.0464	0.0181	2.5606	0.4399	6.7558
850.	207.	1286.	0.642	0.0453	0.0181	2.5050	0.4256	6.2126
895.	244.	1410.	0.676	0.0448	0.0183	2.4534	0.4145	5.7787
945.	294.	1571.	0.714	0.0448	0.0187	2.3954	0.4046	5.3435
997.	338.	1695.	0.753	0.0434	0.0183	2.3718	0.3944	5.0148
1042.	409.	1905.	0.791	0.0442	0.0191	2.3156	0.3884	4.6577
1098.	483.	2086.	0.829	0.0441	0.0196	2.2495	0.3768	4.3188
1147.	562.	2257.	0.866	0.0437	0.0200	2.1851	0.3645	4.0160
1198.	643.	2390.	0.905	0.0424	0.0201	2.1123	0.3471	3.7170
1227.	707.	2486.	0.927	0.0421	0.0205	2.0467	0.3349	3.5163
1251.	766.	2590.	0.945	0.0421	0.0210	2.0066	0.3287	3.3812
1304.	916.	2762.	0.985	0.0414	0.0222	1.8652	0.3027	3.0153
1351.	1075.	2743.	1.020	0.0383	0.0234	1.6353	0.2553	2.5516
1359.	1116.	2705.	1.026	0.0373	0.0239	1.5626	0.2408	2.4238
1400.	1272.	2819.	1.057	0.0366	0.0249	1.4718	0.2248	2.2162
1448.	1519.	2971.	1.093	0.0361	0.0269	1.3435	0.2037	1.9559
1507.	1843.	3133.	1.138	0.0351	0.0289	1.2153	0.1818	1.6999
1544.	2028.	3200.	1.166	0.0342	0.0296	1.1557	0.1705	1.5779

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POINT

MACH	HP	TH	PS	RPM	CT	CP	CT/CP	FFM	TH/HP
0.725	303.	1600.	785.	960.	0.0442	0.0184	2.401	0.403	5.271
0.750	340.	1706.	813.	993.	0.0441	0.0186	2.364	0.396	5.017
0.775	379.	1819.	840.	1026.	0.0440	0.0188	2.335	0.391	4.795
0.800	425.	1944.	857.	1059.	0.0441	0.0192	2.299	0.385	4.575
0.825	472.	2056.	894.	1093.	0.0439	0.0194	2.257	0.377	4.355
0.850	526.	2182.	921.	1126.	0.0439	0.0198	2.216	0.370	4.150
0.875	578.	2281.	948.	1159.	0.0433	0.0199	2.169	0.360	3.947
0.900	539.	2388.	975.	1192.	0.0428	0.0203	2.113	0.349	3.737
0.925	705.	2490.	1002.	1225.	0.0423	0.0206	2.054	0.337	3.534
0.950	783.	2631.	1029.	1258.	0.0423	0.0211	2.006	0.329	3.361
0.975	877.	2710.	1056.	1291.	0.0414	0.0219	1.892	0.307	3.089
1.000	984.	2734.	1083.	1324.	0.0397	0.0228	1.745	0.277	2.777

2FF16A1-4A 12JAN56 RUN NO 241 WALLS DOWN 15000 SHAFT

BETA= 2.1 AF= -0. DIA=15.025 NUL=4 TENPC= -2.0 TEMPR= 488.09 SIGMA=1.0380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	KCT/CP	RFM	RTH/HP
649.	1.0.	1060.	0.490	0.0641	0.0216	2.9667	0.5994	9.6364
710.	143.	1272.	0.536	0.0643	0.0215	2.9959	0.6061	8.8951
748.	169.	1407.	0.565	0.0640	0.0217	2.9541	0.5966	8.3254
799.	206.	1513.	0.603	0.0604	0.0217	2.7838	0.5458	7.3447
851.	251.	1724.	0.643	0.0606	0.0219	2.7728	0.5448	6.8685
899.	294.	1811.	0.679	0.0571	0.0217	2.6270	0.5008	6.1599
902.	302.	1965.	0.681	0.0615	0.0221	2.7841	0.5510	6.5066
952.	359.	2168.	0.719	0.0609	0.0223	2.7272	0.5372	6.0390
1004.	419.	2322.	0.758	0.0587	0.0222	2.6394	0.5102	5.5418
1049.	487.	2582.	0.792	0.0598	0.0227	2.6383	0.5147	5.3018
1100.	571.	2813.	0.831	0.0592	0.0230	2.5707	0.4992	4.9264
1163.	679.	3083.	0.878	0.0581	0.0232	2.5050	0.4816	4.5405
1199.	761.	3276.	0.905	0.0580	0.0237	2.4485	0.4707	4.3049
1224.	803.	3391.	0.924	0.0576	0.0235	2.4520	0.4698	4.2229
1246.	854.	3468.	0.941	0.0569	0.0237	2.4003	0.4569	4.0609
1305.	1038.	3776.	0.985	0.0565	0.0251	2.2520	0.4270	3.6378
1349.	1200.	3969.	1.019	0.0555	0.0262	2.1166	0.3981	3.3075
1404.	1455.	4297.	1.060	0.0555	0.0282	1.9669	0.3698	2.9533
1447.	1673.	4451.	1.093	0.0541	0.0296	1.8262	0.3391	2.6605
1502.	1968.	4663.	1.134	0.0526	0.0312	1.6882	0.3091	2.3694
1546.	2206.	4769.	1.167	0.0508	0.0321	1.5855	0.2852	2.1618

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	365.	2164.	785.	960.	0.0598	0.0221	2.70.	0.527	5.930
0.750	407.	2315.	813.	993.	0.0598	0.0223	2.679	0.523	5.686
0.775	454.	2463.	840.	1026.	0.0595	0.0225	2.642	0.515	5.427
0.800	501.	2609.	867.	1059.	0.0592	0.0226	2.615	0.508	5.204
0.825	555.	2760.	894.	1093.	0.0589	0.0229	2.577	0.499	4.972
0.850	615.	2932.	921.	1126.	0.0589	0.0231	2.546	0.493	4.768
0.875	676.	3087.	948.	1159.	0.0586	0.0233	2.511	0.485	4.567
0.900	740.	3231.	975.	1192.	0.0579	0.0235	2.468	0.474	4.365
0.925	807.	3388.	1002.	1225.	0.0575	0.0236	2.440	0.467	4.199
0.950	889.	3534.	1029.	1258.	0.0569	0.0240	2.373	0.452	3.977
0.975	987.	3690.	1056.	1291.	0.0564	0.0246	2.290	0.434	3.739
1.000	1106.	3868.	1083.	1324.	0.0562	0.0256	2.197	0.416	3.497

STATIC PROP PERFORMANCE

2F11A2-4A 10JAN66 RUN NO 243 WALLS OPEN 15000 FT-LB

BETA= 6.1 AFE =0. DIA=15.425 NRE=4 TAPC= 0. TAPC= 4.01.69 SIGMA=1.0330

***** DATA POINTS *****

RPM	HP	TH	TIPS	RCT	RCP	CT/CP	RFM	RTH/HP
652.	145.	1375.	0.491	0.0824	0.0281	2.9329	0.6717	9.4828
703.	150.	1578.	0.533	0.0802	0.0272	2.9444	0.6653	9.7667
757.	22.	1792.	0.570	0.0795	0.0275	2.8971	0.6522	8.0675
805.	272.	2062.	0.606	0.0810	0.0280	2.8949	0.6576	7.5809
843.	317.	2265.	0.638	0.0809	0.0279	2.8996	0.6582	7.2082
894.	374.	2535.	0.676	0.0801	0.0277	2.8885	0.6523	6.7807
951.	449.	2836.	0.715	0.0799	0.0280	2.8558	0.6440	6.3304
1001.	523.	3127.	0.753	0.0795	0.0280	2.8391	0.6387	5.9790
1050.	605.	3369.	0.790	0.0778	0.0281	2.7691	0.6165	5.5594
1095.	684.	3640.	0.824	0.0773	0.0280	2.7643	0.6134	5.3215
1145.	803.	4004.	0.862	0.0777	0.0286	2.7134	0.6037	4.9913
1195.	921.	4319.	0.900	0.0769	0.0289	2.6600	0.5886	4.6884
1233.	1022.	4647.	0.929	0.0778	0.0293	2.6595	0.5921	4.5470
1249.	1057.	4743.	0.940	0.0774	0.0294	2.6337	0.5848	4.4452
1299.	1229.	5073.	0.977	0.0766	0.0301	2.5436	0.5617	4.1277
1349.	1435.	5373.	1.015	0.0752	0.0314	2.3961	0.5243	3.7443
1400.	1669.	5576.	1.053	0.0725	0.0327	2.2138	0.4766	3.3409
1447.	1954.	5819.	1.089	0.0708	0.0348	2.0334	0.4317	2.9623
1502.	2253.	6118.	1.130	0.0691	0.0363	1.9011	0.3987	2.6681
1539.	2558.	6369.	1.159	0.0687	0.0377	1.9234	0.3814	2.4977

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	456.	2905.	788.	964.	0.0797	0.0280	2.849	0.642	6.233
0.750	517.	3098.	816.	997.	0.0791	0.0280	2.926	0.634	5.977
0.775	570.	3269.	843.	1030.	0.0795	0.0280	2.804	0.627	5.739
0.800	628.	3462.	870.	1063.	0.0780	0.0280	2.781	0.620	5.514
0.825	672.	3655.	897.	1097.	0.0774	0.0282	2.747	0.610	5.282
0.850	763.	3870.	924.	1130.	0.0772	0.0284	2.720	0.603	5.074
0.875	839.	4107.	951.	1163.	0.0773	0.0285	2.700	0.599	4.894
0.900	922.	4358.	979.	1196.	0.0776	0.0283	2.682	0.596	4.726
0.925	1013.	4593.	1006.	1229.	0.0774	0.0293	2.644	0.587	4.533
0.950	1107.	4849.	1033.	1263.	0.0774	0.0295	2.520	0.532	4.374
0.975	1222.	5069.	1050.	1296.	0.0769	0.0301	2.549	0.564	4.147
1.000	1343.	5245.	1087.	1329.	0.0756	0.0307	2.463	0.540	3.906

STATIC PRESSURE MEASUREMENTS

DIFFERENTIAL PRESSURE 400 IN. 244 WALLS DUCT 15000 FT-LR

REF: 6.1 AF = 0.0. DIA = 25.625 IN. 4 = 4. TEMPC = 0. THPR = 491.69 SIGMA = 1.0360

***** DATA POINTS *****

RPM	HP	TH	TIPS	RPM	CT	RCP	ICI/CP	RFM	RTH/HP
650.	183.	1600.	0.491	0.0994	0.0358	2.7753	0.6984	8.9730	
705.	225.	1911.	0.511	0.0976	0.0348	2.7071	0.7000	8.3816	
747.	274.	2172.	0.567	0.0991	0.0353	2.8090	0.7058	7.9270	
790.	323.	2403.	0.599	0.0965	0.0344	2.8092	0.6967	7.4395	
854.	409.	2793.	0.643	0.0977	0.0353	2.7724	0.6917	6.8435	
907.	491.	3176.	0.682	0.0983	0.0358	2.7831	0.6964	6.4684	
950.	572.	3494.	0.715	0.0986	0.0358	2.7528	0.6898	6.1084	
997.	653.	3861.	0.750	0.0989	0.0360	2.7460	0.6892	5.8060	
1044.	773.	4286.	0.786	0.0994	0.0362	2.7458	0.6908	5.5232	
1092.	901.	4730.	0.822	0.1008	0.0370	2.7219	0.6897	5.2497	
1150.	1054.	5174.	0.870	0.0986	0.0366	2.6919	0.6746	4.9089	
1174.	1172.	5579.	0.898	0.0997	0.0370	2.6962	0.6792	4.7602	
1232.	1303.	5994.	0.977	0.1006	0.0376	2.6782	0.6778	4.5826	
1257.	1391.	6236.	0.946	0.1005	0.0378	2.6579	0.6725	4.4575	
1297.	1561.	6554.	0.976	0.0994	0.0384	2.5855	0.6504	4.2023	
1352.	1821.	6931.	1.017	0.0966	0.0398	2.4278	0.6020	3.7854	
1390.	2085.	7201.	1.046	0.0949	0.0417	2.2762	0.5596	3.4521	
1452.	2504.	7558.	1.092	0.0914	0.0439	2.0818	0.5023	3.0224	
1497.	2747.	7664.	1.126	0.0871	0.0440	1.9813	0.4666	2.7900	
1544.	3116.	7915.	1.162	0.0846	0.0454	1.8605	0.4317	2.5401	

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	RCP	ICI/CP	FM	TH/HP
0.725	595.	533.	798.	964.	0.0965	0.0357	2.760	0.691	6.038
0.750	664.	5852.	816.	997.	0.0990	0.0360	2.750	0.690	5.815
0.775	741.	6155.	843.	1030.	0.0997	0.0364	2.742	0.691	5.610
0.800	818.	6429.	870.	1063.	0.0998	0.0365	2.732	0.688	5.415
0.825	898.	6699.	897.	1097.	0.0995	0.0366	2.722	0.685	5.234
0.850	937.	6994.	924.	1130.	0.0996	0.0368	2.711	0.683	5.058
0.875	1010.	7285.	951.	1163.	0.0995	0.0369	2.699	0.680	4.893
0.900	1100.	7508.	979.	1196.	0.0993	0.0370	2.696	0.680	4.751
0.925	1205.	7924.	1006.	1229.	0.0998	0.0374	2.669	0.673	4.575
0.950	1414.	8273.	1023.	1263.	0.1002	0.0377	2.557	0.671	4.435
0.975	1559.	8555.	1040.	1296.	0.0994	0.0384	2.586	0.651	4.206
1.000	1719.	8788.	1097.	1329.	0.0979	0.0393	2.490	0.621	3.948

STATIC PROP PERFORMANCE

2FF16A1-4A 7 JAN 66 RUN NO 229 WALLS DOWN 15000 SHAFT

BETA= 7.4 AF= -0. DIA=15.625 INL=4 TEMPC= -3.0 TEMPR= 486.29 SIGMA=1.0440

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
651.	214.	1887.	0.492	0.1134	0.0416	2.7231	0.7318	8.8178
709.	275.	2222.	0.536	0.1126	0.0414	2.7176	0.7276	8.0800
765.	368.	2577.	0.579	0.1121	0.0441	2.5413	0.6791	7.0027
803.	405.	2845.	0.607	0.1124	0.0420	2.6759	0.7158	7.0247
850.	483.	3180.	0.643	0.1121	0.0422	2.6547	0.7093	6.5839
907.	588.	3602.	0.686	0.1115	0.0423	2.6357	0.7024	6.1259
955.	690.	4071.	0.722	0.1137	0.0425	2.6729	0.7192	5.9000
1000.	802.	4425.	0.757	0.1127	0.0431	2.6173	0.7012	5.5175
1047.	931.	4981.	0.792	0.1157	0.0435	2.6573	0.7213	5.3502
1096.	1054.	5345.	0.829	0.1133	0.0430	2.6365	0.7083	5.0712
1145.	1226.	5900.	0.866	0.1146	0.0438	2.6139	0.7062	4.8124
1198.	1433.	6609.	0.906	0.1173	0.0447	2.6210	0.7163	4.6120
1234.	1569.	6944.	0.934	0.1161	0.0448	2.5907	0.7046	4.4257
1256.	1688.	7280.	0.950	0.1175	0.0457	2.5696	0.7030	4.3128
1301.	1917.	7653.	0.984	0.1153	0.0467	2.4670	0.6685	3.9974
1347.	2188.	8046.	1.019	0.1129	0.0481	2.3498	0.6301	3.6773
1351.	2205.	8123.	1.022	0.1133	0.0480	2.3609	0.6343	3.6839
1398.	2532.	8333.	1.058	0.1086	0.0498	2.1826	0.5739	3.2911
1452.	2966.	8812.	1.098	0.1064	0.0520	2.0464	0.5328	2.9710
1500.	3230.	8946.	1.135	0.1013	0.0514	1.9708	0.5005	2.7697
1537.	3606.	9234.	1.163	0.0995	0.0533	1.8671	0.4701	2.5607
1538.	3620.	9195.	1.164	0.0990	0.0534	1.8532	0.4653	2.5401

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	702.	4086.	784.	958.	0.1133	0.0428	2.646	0.711	5.820
0.750	780.	4385.	811.	991.	0.1136	0.0430	2.644	0.711	5.621
0.775	863.	4701.	838.	1024.	0.1141	0.0431	2.648	0.714	5.449
0.800	949.	4992.	865.	1057.	0.1137	0.0431	2.638	0.710	5.260
0.825	1048.	5331.	892.	1091.	0.1142	0.0434	2.631	0.709	5.086
0.850	1153.	5697.	919.	1124.	0.1149	0.0436	2.634	0.712	4.941
0.875	1264.	6039.	946.	1157.	0.1150	0.0439	2.621	0.709	4.778
0.900	1391.	6425.	973.	1190.	0.1156	0.0444	2.606	0.707	4.619
0.925	1532.	6859.	1000.	1223.	0.1169	0.0450	2.597	0.708	4.477
0.950	1682.	7233.	1027.	1256.	0.1168	0.0456	2.561	0.699	4.299
0.975	1848.	7555.	1054.	1289.	0.1158	0.0464	2.499	0.679	4.087
1.000	2034.	7877.	1081.	1322.	0.1148	0.0473	2.428	0.657	3.872

ST C P&CP PERFORMANCE

2FF16A1-4A 13 JAN 66 RUN NO 245 WALLS DOWN 15000 SHAFT

BETA=10.1 AF= -0. DIA=15.025 NBL=4 TEMPC= 0. TEMPR= 491.69 SIGMA=.0360

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
650.	292.	2375.	0.489	0.1432	0.0571	2.5079	0.7572	8.1336
711.	389.	2857.	0.535	0.1439	0.0581	2.4771	0.7500	7.3445
751.	460.	3224.	0.565	0.1456	0.0583	2.4969	0.7602	7.0087
794.	544.	3571.	0.597	0.1443	0.0583	2.4725	0.7494	6.5643
848.	652.	4025.	0.638	0.1425	0.0574	2.4833	0.7482	6.1733
897.	808.	4691.	0.675	0.1485	0.0601	2.4704	0.7596	5.8057
949.	951.	5212.	0.714	0.1474	0.0597	2.4672	0.7559	5.4805
997.	1127.	5849.	0.750	0.1499	0.0611	2.4546	0.7583	5.1899
1049.	1309.	6429.	0.789	0.1488	0.0609	2.4440	0.7523	4.9114
1094.	1526.	7143.	0.823	0.1520	0.0626	2.4292	0.7558	4.6809
1153.	1844.	8108.	0.867	0.1553	0.0646	2.4049	0.7564	4.3970
1176.	1933.	8398.	0.885	0.1547	0.0638	2.4237	0.7606	4.3445
1203.	2105.	8851.	0.905	0.1558	0.0649	2.3995	0.7557	4.2048
1233.	2338.	9517.	0.928	0.1594	0.0670	2.3809	0.7586	4.0706
1253.	2440.	9749.	0.943	0.1581	0.0666	2.3749	0.7537	3.9955
1256.	2455.	9749.	0.945	0.1574	0.0665	2.3660	0.7490	3.9711
1297.	2783.	10386.	0.976	0.1572	0.0685	2.2961	0.7266	3.7319
1347.	3141.	10811.	1.013	0.1517	0.0690	2.1993	0.6837	3.4419
1415.	3741.	11583.	1.065	0.1473	0.0709	2.0783	0.6366	3.0962

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1004.	5414.	788.	964.	0.1485	0.0603	2.464	0.758	5.391
0.750	1122.	5828.	816.	997.	0.1493	0.0608	2.455	0.757	5.192
0.775	1241.	6219.	843.	1030.	0.1493	0.0610	2.449	0.755	5.011
0.800	1386.	6689.	870.	1063.	0.1507	0.0619	2.435	0.754	4.827
0.825	1536.	7171.	897.	1097.	0.1519	0.0625	2.428	0.755	4.668
0.850	1700.	7674.	924.	1130.	0.1531	0.0633	2.419	0.755	4.514
0.875	1879.	8222.	951.	1163.	0.1548	0.0641	2.414	0.758	4.375
0.900	2075.	8782.	979.	1196.	0.1563	0.0651	2.402	0.756	4.233
0.925	2282.	9344.	1006.	1229.	0.1574	0.0659	2.384	0.756	4.095
0.950	2518.	9881.	1033.	1263.	0.1578	0.0671	2.351	0.745	3.924
0.975	2753.	10286.	1060.	1296.	0.1560	0.0679	2.297	0.724	3.736
1.000	3006.	10671.	1087.	1329.	0.1538	0.0687	2.238	0.701	3.550

STATIC PROP PERFORMANCE

OFFICIAL-4A 7JVM16 R01 0 220 PALLS DOWN 15000 FT-1A

BETA=12.1 AF= -0.01A=15.625 NQL=4 TEMPC= -4.0 TEMPR= 484.49 SIGMA=1.0500

***** FLOW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
652.	372.	2702.	0.494	0.1655	0.0721	2.2964	0.7454	7.4247
702.	475.	3257.	0.552	0.1683	0.0739	2.2786	0.7460	6.3424
749.	530.	3714.	0.568	0.1686	0.0741	2.2752	0.7455	6.4034
797.	723.	4314.	0.604	0.1730	0.0767	2.2559	0.7487	5.9658
848.	853.	4790.	0.643	0.1636	0.0751	2.2589	0.7425	5.6155
893.	1045.	5552.	0.681	0.1753	0.0775	2.2611	0.7555	5.3078
955.	1223.	6352.	0.724	0.1774	0.0794	2.2342	0.7509	4.9317
1003.	1517.	7105.	0.760	0.1799	0.0808	2.2255	0.7532	4.6774
1052.	1784.	7876.	0.797	0.1812	0.0823	2.2032	0.7485	4.4148
1096.	2060.	8695.	0.831	0.1843	0.0840	2.1945	0.7519	4.2209
1145.	2435.	9539.	0.870	0.1901	0.0882	2.1551	0.7499	3.9574
1194.	2884.	10857.	0.905	0.1940	0.0910	2.1323	0.7494	3.7646
1230.	3224.	11619.	0.92	0.1956	0.0930	2.1028	0.7421	3.6039

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1293.	6379.	743.	957.	0.1775	0.0793	2.239	0.753	4.934
0.750	1453.	6892.	810.	990.	0.1793	0.0805	2.227	0.753	4.745
0.775	1615.	7389.	837.	1023.	0.1800	0.0811	2.219	0.751	4.576
0.800	1804.	7956.	864.	1056.	0.1819	0.0823	2.209	0.752	4.411
0.825	2022.	8574.	891.	1088.	0.1843	0.0842	2.190	0.750	4.241
0.850	2262.	9243.	918.	1121.	0.1872	0.0861	2.174	0.750	4.086
0.875	2528.	9934.	944.	1154.	0.1898	0.0882	2.152	0.748	3.930
0.900	2819.	10663.	971.	1187.	0.1926	0.0904	2.131	0.746	3.784
0.925	3137.	11430.	994.	1220.	0.1954	0.0926	2.111	0.745	3.647

STATIC PROP PERFORMANCE

OFFICIAL-4A 14JA966 RUN NO 249 WALLS DOWN 15000 FT-LB

FEUA=24.0 β = -0.01A-15.025 NBL=4 T-MPC= 2.0 T-MPR= 495.29 SIGMA=1.0260

***** RAW DATA POINTS *****

RPM	HP	TH	T-MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
650.	472.	3216.	0.427	0.1939	0.0925	2.0965	0.7366	5.7992
712.	629.	3850.	0.534	0.1934	0.0936	2.0673	0.7255	6.1208
756.	765.	4395.	0.567	0.1959	0.0951	2.0608	0.7279	5.7464
795.	910.	4951.	0.596	0.1995	0.0972	2.0518	0.7313	5.4407
854.	1139.	5721.	0.640	0.1998	0.0982	2.0348	0.7258	5.0228
904.	1383.	6569.	0.678	0.2047	0.1005	2.0369	0.7354	4.7498
948.	1617.	7310.	0.711	0.2072	0.1019	2.0330	0.7384	4.5207
1002.	1951.	8187.	0.751	0.2077	0.1041	1.9946	0.7254	4.1963
1051.	2311.	9220.	0.789	0.2126	0.1069	1.9891	0.7318	3.9896
1100.	2753.	10331.	0.825	0.2174	0.1110	1.9582	0.7287	3.7525
1120.	3000.	10916.	0.843	0.2201	0.1134	1.9401	0.7263	3.6387

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1726.	7502.	791.	967.	0.2070	0.1024	2.021	0.734	4.405
0.750	1947.	8226.	819.	1001.	0.2093	0.1044	2.005	0.732	4.225
0.775	2133.	8855.	846.	1034.	0.2110	0.1060	1.990	0.729	4.057
0.800	2458.	9571.	873.	1067.	0.2140	0.1086	1.971	0.728	3.894
0.825	2752.	10341.	900.	1101.	0.2174	0.1113	1.954	0.727	3.744

STATIC PROOF PRESSURE

25110-41-43 7 JAMES R/V 10 231 BALLS ONLY 15000 FT-LR

DETA=15.0 AF=-0. DIA=15.625 INLE=4 ICP=PC=-4.6 TEMPR= 492.41 SIGMA=1.0530

***** AIA POINTS *****

RPM	HP	TH	FMACH	RCT	PCP	RCT/CP	R ^{-M}	RTH/HP
650.	553.	3435.	0.493	0.2101	0.1081	1.9432	0.7107	6.3020
711.	753.	4274.	0.539	0.2153	0.1125	1.9144	0.7089	5.6760
753.	923.	4919.	0.575	0.2180	0.1145	1.9039	0.7094	5.2949
803.	1115.	5565.	0.607	0.2215	0.1169	1.8941	0.7113	4.9910
859.	1419.	6553.	0.632	0.2262	0.1202	1.8818	0.7142	4.6180
899.	1671.	7312.	0.652	0.2304	0.1235	1.8661	0.7148	4.3758
949.	2075.	8333.	0.720	0.2359	0.1303	1.8090	0.7010	4.0183
999.	2523.	9437.	0.755	0.2438	0.1371	1.7785	0.7003	3.7642
1014.	2704.	9972.	0.769	0.2470	0.1392	1.7739	0.7035	3.6879

***** FIIT-D CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2132.	8517.	782.	955.	0.2376	0.1312	1.811	0.704	3.995
0.750	2443.	9204.	809.	988.	0.2426	0.1358	1.787	0.702	3.810

STATION 1114 DE 240301 JCF

1. Mr. GIBBS: I am not (2-3-65) available.

BEFA= 2.0 AF= 97.5 DIA= 0.570 NUL=4 T^VPC= 23.77 SIGMA=0.9570

***** JAN 15 1964 *****

RPM	μ	TH	TPACH	RCT	RCP	ACT/CP	RFM	RTH/HP
592.	131.	773.	0.533	0.0367	0.0121	3.0317	0.4632	9.6931
821.	172.	1463.	0.533	0.0340	0.0123	2.7615	0.4266	6.5744
939.	209.	1463.	0.724	0.0332	0.0129	2.5738	0.3741	5.4387
1052.	302.	1713.	0.711	0.0309	0.0134	2.3168	0.3252	4.3599
1077.	425.	1765.	0.330	0.0304	0.0135	2.2439	0.3130	4.1432
1096.	455.	1819.	0.343	0.0304	0.0138	2.2042	0.3066	3.9978
1122.	498.	1900.	0.365	0.0302	0.0140	2.1574	0.2990	3.8153
1159.	550.	1943.	0.393	0.0289	0.0140	2.0535	0.2800	3.5327
1189.	611.	2028.	0.315	0.0287	0.0144	1.9889	0.2488	3.3191
1215.	674.	2077.	0.335	0.0280	0.0150	1.8750	0.2505	3.0621
1242.	735.	2090.	0.357	0.0271	0.0152	1.7749	0.2338	2.8435
1273.	835.	2127.	0.391	0.0262	0.0161	1.6235	0.2104	2.5401
1304.	939.	2137.	1.007	0.0250	0.0157	1.4937	0.1884	2.2694
1331.	1052.	2131.	1.026	0.0240	0.0177	1.3589	0.1681	2.0257
1358.	1165.	2131.	1.047	0.0231	0.0185	1.2519	0.1518	1.8292
1384.	1278.	1984.	1.070	0.0206	0.0190	1.0850	0.1243	1.5524

[illegible]

NACH	HP	TH	TIPS	RPM	CT	CP	CF/CP	FM	TH/HP	ERROR -	HP	T
0.725	270.	1647.	818.	341.	0.0327	0.0129	2.337	0.356	5.351	0	0	
0.750	304.	1524.	845.	375.	0.0322	0.0131	2.451	0.352	5.019	0	0	
0.775	340.	1602.	874.	405.	0.0317	0.0133	2.390	0.339	4.717	0	0	
0.800	378.	1580.	902.	438.	0.0312	0.0134	2.324	0.327	4.443	0	0	
0.825	420.	1755.	930.	470.	0.0308	0.0130	2.267	0.317	4.202	0	0	
0.850	455.	1538.	950.	493.	0.0322	0.0130	2.194	0.304	3.948	0	0	
0.875	483.	1913.	977.	515.	0.0297	0.0139	2.183	0.293	3.729	0	0	
0.900	570.	1841.	1005.	548.	0.0291	0.0142	2.044	0.278	3.474	0	0	
0.925	625.	2037.	1043.	590.	0.0283	0.0140	1.960	0.260	3.209	0	0	
0.950	716.	2069.	1071.	623.	0.0275	0.0150	1.812	0.250	2.917	0	0	
0.975	806.	2114.	1099.	665.	0.0264	0.0158	1.673	0.217	2.624	0	0	
1.000	913.	2124.	1128.	707.	0.0253	0.0166	1.523	0.193	2.329	0	0	

NOT REPRODUCIBLE

STATIC PUMP PERFORMANCE

X-142A(SR5000-3) DOWN 30 IN WALLS DOWN

BETA= 4.0 AF= 97.5 DIA=16.576 INLE4 TEMPC= 21.5 T MP= 310.39 STMA=0.9580

***** RAW DATA POINTS *****

RPM	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
807.	125.	2245.	530	0.0541	0.0152	0.5658	0.619	10.2720			
807.	317.	1713.	5321	0.0525	0.0156	3.3657	0.6159	8.2754			
922.	315.	2212.	0.710	0.0520	0.0159	3.2530	0.5929	7.0222			
1043.	457.	2651.	0.802	0.0489	0.0153	1.9952	0.5285	5.6981			
1073.	514.	2862.	0.826	0.0497	0.0165	3.0039	0.5351	5.5542			
1101.	557.	2993.	0.847	0.0492	0.0166	2.9736	0.5265	5.3591			
1124.	501.	3090.	0.837	0.0487	0.0167	2.9176	0.5139	5.1414			
1156.	658.	3215.	0.890	0.0491	0.0169	3.0475	0.4984	4.8875			
1182.	715.	3342.	0.910	0.0478	0.0172	2.7844	0.4859	4.6741			
1215.	792.	3455.	0.935	0.0469	0.0175	2.6783	0.4631	4.3750			
1252.	890.	3512.	0.964	0.0461	0.0180	2.5603	0.4386	4.0584			
1272.	954.	3556.	0.979	0.0452	0.0184	2.4557	0.4167	3.8323			
1305.	1089.	3779.	1.000	0.0447	0.0197	2.2735	0.3836	3.4702			
1336.	1225.	3854.	1.028	0.0433	0.0204	2.1239	0.3526	3.1543			
1359.	1332.	3928.	1.046	0.0425	0.0211	2.0197	0.3323	2.9489			
1397.	1524.	4010.	1.075	0.0411	0.0222	1.8525	0.2996	2.6312			

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
UNDERFLOW AT 62447 IN AC AND MQ.											
0.725	339.	2269.	519.	942.	0.0511	0.0161	3.180	0.574	6.698	0	0
UNDERFLOW AT 62447 IN AC AND MQ.											
0.750	378.	2408.	547.	975.	0.0507	0.0162	3.129	0.562	6.370	0	0
0.775	420.	2549.	575.	1007.	0.0502	0.0163	3.081	0.551	6.071	0	0
0.800	464.	2693.	604.	1040.	0.0498	0.0164	3.039	0.541	5.799	0	0
0.825	512.	2840.	632.	1072.	0.0494	0.0165	2.997	0.531	5.547	0	0
0.850	553.	2990.	660.	1104.	0.0491	0.0166	2.964	0.524	5.325	0	0
0.875	621.	3140.	688.	1137.	0.0486	0.0167	2.937	0.509	5.056	0	0
0.900	687.	3280.	716.	1169.	0.0479	0.0170	2.915	0.492	4.775	0	0
0.925	740.	3419.	745.	1202.	0.0473	0.0174	2.725	0.473	4.499	0	0
0.950	839.	3540.	773.	1234.	0.0464	0.0177	2.626	0.452	4.221	0	0
0.975	946.	3656.	801.	1267.	0.0455	0.0184	2.458	0.420	3.866	0	0
1.000	1069.	3753.	829.	1299.	0.0445	0.0193	2.305	0.388	3.519	0	0

NOT REPRODUCIBLE

STATIC PUMP PERFORMANCE

XC-16AUSK8000-21 CON 70 111 VALLS DOWN

BETA= 0.0 ARE 07.0 DIA=10.00 INHL=4 TEMPC= 20.8 T-MOR= 20.13 SIGMA=0.9600

***** RAW DATA POINTS *****

ROW	HP	TH	TSACH	RCT	RCP	RCT/CP	RFM	RTH/HP
701.	147.	1749.	0.540	0.0708	0.0215	3.2873	0.6979	9.3043
805.	275.	2233.	0.620	0.0594	0.0210	3.3073	0.6953	8.1522
924.	419.	2835.	0.712	0.0578	0.0210	3.2263	0.6704	6.9282
1043.	522.	3729.	0.808	0.0674	0.0214	3.1515	0.6528	5.9514
1172.	555.	3835.	0.826	0.0678	0.0214	3.1605	0.6565	5.8498
1297.	715.	4042.	0.845	0.0671	0.0215	3.1210	0.6454	5.6453
1426.	774.	4213.	0.868	0.0665	0.0215	3.0933	0.6367	5.4509
1554.	843.	4417.	0.883	0.0653	0.0218	3.0473	0.6262	5.2396
1681.	915.	4543.	0.911	0.0656	0.0220	2.9837	0.6097	5.0087
1813.	1000.	4833.	0.935	0.0657	0.0222	2.9515	0.6042	4.8330
1943.	1123.	5075.	0.952	0.0650	0.0229	2.8446	0.5789	4.5191
2077.	1195.	5123.	0.976	0.0638	0.0233	2.7385	0.5521	4.2887
2213.	1410.	5335.	1.012	0.0621	0.0247	2.5131	0.4997	3.7979
2344.	1530.	5403.	1.029	0.0605	0.0255	2.3754	0.4664	3.5294
2461.	1545.	5423.	1.049	0.0585	0.0259	2.2600	0.4362	3.2948
2584.	1787.	5460.	1.069	0.0567	0.0265	2.1373	0.4060	3.0554

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP	ERROR-	HP
0.725	443.	3009.	818.	941.	0.0679	0.0211	3.218	0.659	6.785		0
0.750	493.	3212.	846.	973.	0.0678	0.0212	3.195	0.664	6.513		0
0.775	546.	3422.	874.	1006.	0.0675	0.0213	3.175	0.659	6.264		0
0.800	603.	3643.	902.	1038.	0.0675	0.0214	3.158	0.655	6.035		0
0.825	643.	3835.	931.	1071.	0.0672	0.0214	3.138	0.649	5.814		0
0.850	727.	4045.	959.	1102.	0.0671	0.0215	3.124	0.646	5.619		0
0.875	792.	4242.	987.	1136.	0.0664	0.0216	3.070	0.631	5.364		0
0.900	875.	4504.	1015.	1159.	0.0660	0.0216	3.126	0.620	5.140		0
0.925	965.	4737.	1043.	1201.	0.0657	0.0221	2.969	0.607	4.905		0
0.950	1066.	4953.	1072.	1233.	0.0651	0.0225	2.987	0.598	4.647		0
0.975	1149.	5144.	1100.	1265.	0.0642	0.0233	2.761	0.558	4.329		0
1.000	1335.	5384.	1126.	1298.	0.0628	0.0242	2.590	0.518	3.960		0

STATIC PROP PERFORMANCE

XC-140A(SK5334S-0) RUN NO 112 WALLS DOWN

BETA= 8.0 AF= 97.2 DIA=25.000 NILE=4 TEMPC= 19.0 TEMPB= 525.89 SIGMA=0.9680

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCF	RCP	CT/CP	RFM	RTM/HP
596.	246.	2160.	0.539	0.0891	0.0289	3.0739	0.7339	8.7405
610.	369.	2032.	1.526	0.0881	0.0290	3.0427	0.7208	7.4536
621.	584.	3003.	0.712	0.0896	0.0297	3.0218	0.7219	6.5103
1050.	834.	4940.	0.412	0.0896	0.0303	2.9572	0.7063	5.5882
1073.	935.	5145.	0.429	0.0893	0.0300	2.9757	0.7097	5.5027
1103.	1030.	5455.	0.452	0.0896	0.0304	2.9440	0.7034	5.2961
1124.	1115.	5725.	0.472	0.0899	0.0308	2.9189	0.6986	5.1345
1155.	1214.	6118.	0.493	0.0917	0.0313	2.9335	0.7068	5.0395
1185.	1325.	6404.	0.516	0.0912	0.0316	2.8864	0.6955	4.8332
1211.	1423.	6700.	0.536	0.0913	0.0318	2.8735	0.6930	4.7084
1244.	1575.	7265.	0.551	0.0913	0.0325	2.8123	0.6780	4.4857
1269.	1636.	7275.	0.531	0.0903	0.0327	2.7596	0.6618	4.3149
1303.	1870.	7470.	1.007	0.0820	0.0335	2.6232	0.6208	3.9947
1327.	1982.	7480.	1.026	0.0849	0.0336	2.5233	0.5859	3.7740
1332.	2010.	7560.	1.029	0.0852	0.0337	2.5249	0.5881	3.7612
1360.	2165.	7624.	1.051	0.0824	0.0341	2.4136	0.5529	3.5215
1353.	2197.	7635.	1.053	0.0827	0.0344	2.4028	0.5514	3.4980
1372.	2259.	7751.	1.060	0.0823	0.0347	2.3725	0.5432	3.4312

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	TI
0.725	618.	3925.	815.	939.	0.0892	0.0297	3.001	0.715	6.348		0	
0.750	648.	4204.	843.	970.	0.0892	0.0299	2.987	0.712	6.107		0	
0.775	753.	4493.	872.	1003.	0.0893	0.0300	2.975	0.710	5.887		0	
0.800	843.	4793.	900.	1035.	0.0894	0.0302	2.965	0.708	5.686		0	
0.825	930.	5110.	928.	1067.	0.0897	0.0303	2.958	0.707	5.498		0	
0.850	1023.	5437.	956.	1100.	0.0899	0.0305	2.945	0.705	5.313		0	
0.875	1131.	5876.	984.	1132.	0.0906	0.0309	2.929	0.703	5.134		0	
0.900	1245.	6286.	1012.	1164.	0.0912	0.0313	2.915	0.703	4.968		0	
0.925	1371.	6560.	1040.	1197.	0.0916	0.0317	2.897	0.697	4.785		0	
0.950	1504.	6901.	1068.	1229.	0.0915	0.0321	2.883	0.696	4.590		0	
0.975	1655.	7215.	1096.	1252.	0.0905	0.0327	2.772	0.656	4.361		0	
1.000	1815.	7421.	1125.	1294.	0.0885	0.0332	2.565	0.633	4.088		0	

STATIC POOP PERFORMANCE

XC-142A(6X50X43-5) DOWN 1000 FEET

BETA=10.0 AFE=97.5 DIA=15.0 VAL=4 F WPC=17.6 FUDGE=523.37 SIGMA=0.9740

***** DATA POINTS *****

RPM	HP	TH	TEACH	RGT	CT	CP	CT/CP	RFM	RTH/HP
706.	347.	27.3.	0.065	0.1114	0.0394	0.0394	2.8231	0.7525	7.9525
911.	541.	35.37.	0.024	0.1112	0.0402	0.0402	2.7529	0.7351	6.7597
927.	527.	40.54.	0.713	0.1130	0.0412	0.0412	2.7444	0.7362	5.8742
1041.	1223.	62.25.	0.006	0.1153	0.0430	0.0430	2.7047	0.7361	5.1554
1068.	1362.	65.64.	0.337	0.1147	0.0437	0.0437	2.6794	0.7279	4.9513
1097.	1432.	71.27.	0.350	0.1184	0.0445	0.0445	2.6547	0.7300	4.8090
1121.	1523.	76.20.	0.472	0.1193	0.0452	0.0452	2.6492	0.7318	4.6683
1155.	1781.	81.10.	0.495	0.1215	0.0459	0.0459	2.6575	0.7374	4.5536
1183.	1963.	85.50.	0.013	0.1220	0.0467	0.0467	2.6338	0.7369	4.4065
1214.	2159.	92.07.	0.934	0.1240	0.0474	0.0474	2.6157	0.7350	4.2612
1241.	2316.	95.35.	0.051	0.1239	0.0430	0.0430	2.5771	0.7235	4.1206
1271.	2521.	99.40.	0.035	0.1232	0.0487	0.0487	2.5256	0.7069	3.9429
1305.	2744.	101.40.	1.011	0.1195	0.0490	0.0490	2.4400	0.6731	3.7099
1334.	2932.	103.35.	1.035	0.1153	0.0491	0.0491	2.3640	0.6444	3.5249

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	1
0.725	857.	40.51.	813.	936.	0.1132	0.0413	2.729	0.733	5.787		0	
0.750	953.	53.50.	841.	958.	0.1141	0.0421	2.711	0.731	5.556		0	
0.775	1077.	57.59.	869.	1000.	0.1150	0.0427	2.695	0.730	5.346		0	
0.800	1200.	61.58.	898.	1033.	0.1150	0.0432	2.683	0.729	5.156		0	
0.825	1332.	66.44.	926.	1055.	0.1171	0.0439	2.576	0.731	4.987		0	
0.850	1451.	71.28.	954.	1097.	0.1134	0.0445	2.561	0.731	4.813		0	
0.875	1645.	75.59.	982.	1129.	0.1202	0.0453	2.554	0.734	4.662		0	
0.900	1820.	83.32.	1010.	1162.	0.1210	0.0460	2.548	0.738	4.523		0	
0.925	2010.	87.95.	1038.	1194.	0.1233	0.0456	2.534	0.738	4.377		0	
0.950	2217.	93.32.	1076.	1226.	0.1241	0.0477	2.501	0.731	4.209		0	
0.975	2432.	97.71.	1096.	1258.	0.1235	0.0484	2.349	0.714	4.018		0	
1.000	2547.	101.09.	1122.	1291.	0.1211	0.0483	2.479	0.688	3.811		0	

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

XC-1424(SK50R88-0) RUN 10 10 WALLS DOWN

BETA=12.0 AF= 97.8 DIA=15.650 NPL=4 TEMPC= 19.5 TEMPR= 526.79 SIGMA=0.9710

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	CT/CP	RFM	RTH/HP
695.	402.	3149.	0.537	0.1300	0.0473	2.7477	0.7904	7.8333
814.	690.	4553.	0.623	0.1315	0.0507	2.5940	0.7510	6.3232
928.	1080.	5804.	0.717	0.1347	0.0536	2.5134	0.7352	5.3741
994.	1380.	6874.	0.771	0.1380	0.0551	2.5054	0.7425	4.9812
1043.	1659.	7597.	0.805	0.1414	0.0580	2.4402	0.7324	4.6423
1072.	1829.	8191.	0.828	0.1425	0.0589	2.4195	0.7288	4.4784
1099.	2004.	8747.	0.849	0.1448	0.0599	2.4175	0.7340	4.3648
1123.	2235.	9302.	0.872	0.1459	0.0616	2.3681	0.7218	4.1620
1153.	2457.	10002.	0.895	0.1489	0.0626	2.3778	0.7321	4.0708
1185.	2724.	10722.	0.915	0.1524	0.0648	2.3527	0.7329	3.9361
1214.	2953.	11237.	0.937	0.1524	0.0655	2.3242	0.7253	3.8053
1245.	3238.	11750.	0.951	0.1515	0.0666	2.2771	0.7074	3.6291
1272.	3519.	12183.	0.967	0.1491	0.0669	2.2293	0.6871	3.4621
1295.	3635.	12359.	1.000	0.1477	0.0664	2.2238	0.6820	3.4073

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	FIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1128.	5379.	816.	339.	0.1356	0.0540	2.509	0.737	5.302		0
0.750	1276.	5474.	844.	971.	0.1372	0.0553	2.483	0.734	5.072		0
0.775	1428.	5982.	872.	1004.	0.1386	0.0560	2.473	0.735	4.890		0
0.800	1508.	7545.	900.	1036.	0.1406	0.0574	2.450	0.733	4.692		0
0.825	1803.	8138.	929.	1068.	0.1425	0.0587	2.439	0.732	4.513		0
0.850	2016.	8737.	957.	1101.	0.1442	0.0600	2.404	0.728	4.333		0
0.875	2263.	9449.	985.	1133.	0.1471	0.0617	2.385	0.730	4.176		0
0.900	2530.	10139.	1012.	1165.	0.1501	0.0634	2.367	0.732	4.030		0
0.925	2815.	10926.	1041.	1198.	0.1522	0.0650	2.343	0.730	3.882		0
0.950	3109.	11534.	1069.	1230.	0.1524	0.0652	2.300	0.716	3.710		0
0.975	3343.	12056.	1097.	1263.	0.1507	0.0667	2.260	0.700	3.552		0
1.000	3643.	12359.	1126.	1295.	0.1475	0.0665	2.216	0.679	3.395		0

STATIC PROP PERFORMANCE

XC-142A(SK50858-C) RUN NO 120 WALLS DOWN

BETA=14.0 AF= 97.8 DIA=15.500 NUL=4 TEMPC= 18.5 TEMPR= 526.09 SIGMA=0.9740

***** RAW DATA POINTS *****

RPM	HP	TH	TWACH	RCT	RCP	PCT/CP	RFM	RTW/HP
693.	536.	3785.	0.236	0.1576	0.0639	2.4669	0.7815	7.0634
803.	902.	571.	0.625	0.1583	0.0578	2.3345	0.7413	5.7328
929.	1453.	7018.	0.719	0.1626	0.0724	2.2459	0.7226	4.7970
999.	1947.	8413.	0.773	0.1683	0.0772	2.1834	0.7152	4.3366
1042.	2312.	9439.	0.806	0.1738	0.0811	2.1440	0.7132	4.0826
1067.	2611.	10075.	0.827	0.1762	0.0848	2.0789	0.6965	3.8587
1093.	2894.	10856.	0.850	0.1797	0.0865	2.0777	0.7028	3.7512
1124.	3145.	11573.	0.869	0.1831	0.0879	2.0845	0.7118	3.6798

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	T
0.725	1530.	7210.	815.	937.	0.1641	0.0737	2.227	0.720	4.714		0	
0.750	1752.	7843.	843.	970.	0.1668	0.0762	2.187	0.713	4.477		0	
0.775	1976.	8430.	871.	1002.	0.1691	0.0779	2.170	0.712	4.298		0	
0.800	2255.	9227.	899.	1034.	0.1725	0.0809	2.133	0.707	4.092		0	
0.825	2557.	10021.	927.	1067.	0.1761	0.0836	2.107	0.706	3.919		0	
0.850	2835.	10868.	955.	1099.	0.1799	0.0863	2.086	0.706	3.767		0	

STATIC PROP PERFORMANCE

XC-142A(SK52858-0) RUN NO 121 WALLS DOWN

BETA=15.0 AF= 37.8 DIA=15.000 JPL=6.1000 18.0 TEMPR= 524.09 SIGMA=0.9760

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	ACP	RCT/CP	RFM	RTH/HP
595.	538.	4300.	0.540	0.1764	0.7003	2.1936	0.7370	6.2500
810.	1145.	5873.	0.527	0.1791	0.3455	2.0957	0.7077	5.1336
870.	1528.	7045.	0.580	0.1827	0.3396	2.0401	0.6959	4.6106
934.	1927.	8089.	0.723	0.1854	0.3938	1.9759	0.6789	4.1977
958.	2151.	8584.	0.742	0.1892	0.3970	1.9492	0.6765	4.0372
1002.	2515.	9728.	0.776	0.1937	0.1031	1.8779	0.6595	3.7187
1023.	2891.	10322.	0.792	0.1972	0.1071	1.8408	0.6523	3.5704

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	F	I
0.725	1958.	8134.	314.	936.	0.1855	0.0946	1.973	0.680	4.180		0	
0.750	2266.	8322.	342.	969.	0.1911	0.0989	1.922	0.669	3.938		0	
0.775	2516.	9723.	370.	1001.	0.1940	0.1034	1.875	0.659	3.717		0	

STATIC PUMP PERFORMANCE

YC-142AUSK59463-2) RUN TO 122 VALLS DOWN

BETA=16.0 ME= 97.3 DIA= 0.500 IFLY TEMPC= 13.0 FMPR= 524.09 SIGMA=0.9760

***** RAW DATA POINTS *****

RPM	HP	TH	TRACH	RCT	RCP	RCT/CP	RFM	RTH/HP
599.	322.	4033.	0.341	0.1977	0.1059	1.8668	0.6525	5.2993
771.	1291.	5950.	0.397	0.2024	0.1117	1.7933	0.6409	4.6166
811.	1321.	6615.	0.328	0.2011	0.1131	1.7776	0.6361	4.3491
875.	1397.	7590.	0.377	0.2005	0.1182	1.6959	0.6060	3.8458
924.	2386.	8745.	0.715	0.2048	0.1200	1.7053	0.6163	3.6651
961.	2749.	9503.	0.744	0.2057	0.1228	1.6749	0.6062	3.4582

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	2511.	3976.	0.14.	336.	0.2046	0.1213	1.587	0.609	3.575		0

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

XC-142A(SK59858-0) KUN NJ 176 WAILS DOWN

BETA=10.0 AF= 97.2 DIA=22.000 DUL=4 TEMPC= 17.0 TEMPR= 122.29 SIGMA=0.9760

***** RAW DATA POINTS *****

	RPM	HP	TH	TSACH	RCT	RCP	RCT/CP	RFM	RTH/HP
---	592.	1217.	5240.	0.542	0.2144	0.1409	1.5219	0.5623	4.3199
---	768.	1553.	6375.	0.536	0.2161	0.1456	1.4837	0.5504	3.6334
---	814.	2022.	7249.	0.531	0.2144	0.1487	1.4689	0.5478	3.5806
---	851.	2312.	7875.	0.560	0.2172	0.1488	1.4599	0.5430	3.4040
---	873.	2522.	8522.	0.677	0.2183	0.1504	1.4513	0.5413	3.2998

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	I

STATIC PROP PERFORMANCE

XC-14A (8598 S-23) RUN 10 162 WALLS DOWN

0.145 G.0.0 AF= 0.7.0 DIA=1.0.0.0 MDL=4 TEMPC= 20.0 IFMPR= 527.69 SIGMA=0.9640

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
700.	123.	1307.	0.540	0.0533	0.0149	3.5743	0.6587	10.1318
816.	214.	1763.	0.630	0.0529	0.0156	3.3880	0.6220	8.2383
929.	312.	2198.	0.717	0.0509	0.0154	3.2984	0.5939	7.0449
1041.	450.	2575.	0.803	0.0493	0.0158	3.1187	0.5528	5.9444
1072.	488.	2620.	0.827	0.0491	0.0157	3.1220	0.5518	5.7787
1100.	529.	2945.	0.849	0.0487	0.0157	3.0921	0.5443	5.5777
1130.	577.	3090.	0.872	0.0484	0.0159	3.0498	0.5353	5.3553
1157.	604.	3215.	0.893	0.0480	0.0155	3.1038	0.5427	5.3228
1192.	701.	3422.	0.920	0.0481	0.0164	2.9326	0.5135	4.8816
1214.	752.	3505.	0.937	0.0475	0.0167	2.8517	0.452	4.6609
1242.	817.	3588.	0.958	0.0465	0.0159	2.7489	0.4730	4.3917
1272.	907.	3692.	0.981	0.0456	0.0175	2.6095	0.4448	4.0706
1303.	1033.	3859.	1.005	0.0454	0.0185	2.4525	0.4171	3.7348
1333.	1156.	3961.	1.028	0.0446	0.0194	2.3019	0.3878	3.4265
1358.	1268.	4044.	1.048	0.0438	0.0201	2.1827	0.3647	3.1893
1391.	1440.	4169.	1.073	0.0431	0.0212	2.0296	0.3361	2.8951

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TH/HP	ERROR-	HP
0.725	327.	2250.	817.	940.	0.0509	0.0157	3.254	0.586	6.871		0
0.750	363.	2395.	845.	972.	0.0505	0.0157	3.215	0.576	6.562		0
0.775	402.	2523.	873.	1004.	0.0500	0.0157	3.179	0.567	6.279		0
0.800	442.	2663.	901.	1037.	0.0495	0.0157	3.146	0.559	6.020		0
0.825	485.	2804.	929.	1069.	0.0490	0.0157	3.114	0.550	5.778		0
0.850	526.	2950.	958.	1102.	0.0486	0.0156	3.116	0.548	5.612		0
0.875	575.	3111.	986.	1134.	0.0484	0.0156	3.090	0.542	5.406		0
0.900	638.	3283.	1014.	1166.	0.0482	0.0159	3.026	0.530	5.147		0
0.925	710.	3437.	1042.	1199.	0.0478	0.0163	2.924	0.510	4.840		0
0.950	793.	3561.	1070.	1231.	0.0470	0.0169	2.786	0.482	4.490		0
0.975	844.	3575.	1098.	1264.	0.0460	0.0174	2.647	0.453	4.156		0
1.000	1000.	3807.	1127.	1296.	0.0453	0.0182	2.488	0.423	3.808		0

STATIC PROP PERFORMANCE

XC-142A(SK528-5-1) (F) UN 4J 142 FALLS DOWN

BETA= 6.0) ME= 17.8 DIA=15.777 VRL=4 TEMPC= 20.0 TEMPR= 217.69 SIGMA=0.9640

***** RAW DATA POINTS *****

RPM	HP	TH	IMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
700.	181.	1773.	0.340	0.0717	0.0209	3.4557	0.7417	9.7956
812.	254.	2354.	0.627	0.0717	0.0210	3.4054	0.7278	8.3239
930.	426.	3028.	0.718	0.0700	0.0210	3.3315	0.7033	7.1080
1028.	585.	3650.	0.901	0.0677	0.0207	3.2640	0.6778	6.2393
1071.	649.	3878.	0.826	0.0676	0.0210	3.2252	0.6691	5.9753
1098.	700.	4085.	0.847	0.0678	0.0210	3.2301	0.6709	5.8371
1133.	785.	4375.	0.874	0.0681	0.0214	3.1831	0.6531	5.5745
1161.	853.	4563.	0.896	0.0677	0.0216	3.1300	0.6498	5.3494
1190.	921.	4749.	0.918	0.0670	0.0217	3.0924	0.6390	5.1564
1217.	999.	4936.	0.939	0.0666	0.0220	3.0305	0.6242	4.9409
1245.	1085.	5144.	0.961	0.0663	0.0223	2.9747	0.6114	4.7410
1273.	1164.	5226.	0.982	0.0645	0.0224	2.8804	0.5836	4.4897
1305.	1313.	5892.	1.007	0.0632	0.0234	2.9513	0.6194	4.4874
1332.	1439.	5517.	1.028	0.0622	0.0242	2.5737	0.5121	3.8339
1360.	1561.	5538.	1.049	0.0599	0.0246	2.4316	0.4747	3.5477
1391.	1782.	5600.	1.073	0.0579	0.0263	2.2030	0.4229	3.1425

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	439.	3076.	817.	940.	0.0696	0.0210	3.321	0.699	7.014		0
0.750	486.	3269.	845.	972.	0.0692	0.0210	3.298	0.692	6.731		0
0.775	536.	3467.	873.	1004.	0.0687	0.0210	3.276	0.685	6.471		0
0.800	589.	3659.	901.	1037.	0.0692	0.0210	3.256	0.679	6.231		0
0.825	648.	3866.	929.	1069.	0.0679	0.0210	3.233	0.673	6.000		0
0.850	713.	4126.	956.	1102.	0.0680	0.0211	3.215	0.669	5.790		0
0.875	735.	4371.	986.	1134.	0.0679	0.0214	3.181	0.662	5.566		0
0.900	864.	4597.	1014.	1166.	0.0675	0.0216	3.128	0.649	5.321		0
0.925	949.	4826.	1042.	1199.	0.0671	0.0218	3.073	0.635	5.086		0
0.950	1016.	4984.	1070.	1231.	0.0657	0.0220	2.985	0.611	4.811		0
0.975	1142.	5320.	1098.	1264.	0.0666	0.0225	2.966	0.611	4.658		0
1.000	1270.	5554.	1127.	1296.	0.0651	0.0231	2.857	0.586	4.374		0

$\bar{r} = 1.0$, $\bar{r} = 0.9$, $\bar{r} = 0.8$, $\bar{r} = 0.7$, $\bar{r} = 0.6$, $\bar{r} = 0.5$, $\bar{r} = 0.4$, $\bar{r} = 0.3$, $\bar{r} = 0.2$, $\bar{r} = 0.1$, $\bar{r} = 0$

..... 2018-2019

RPM	HP	TH	INCH	RCI	RCP	RCI/CP	RFM	RTM/HP
594.	235.	4221.	1.535	0.0322	0.0280	3.2915	0.7975	9.4110
611.	356.	3989.	1.526	0.0909	0.0287	3.1650	0.7613	7.7435
726.	575.	3882.	1.714	0.0905	0.0287	3.1507	0.7564	6.7513
1104.	837.	4899.	1.893	0.0904	0.0294	3.0707	0.7367	5.8530
11072.	908.	5143.	1.827	0.0895	0.0292	3.0631	0.7315	5.6696
1101.	1007.	5450.	0.343	0.0920	0.0299	3.0986	0.7204	5.4220
11130.	1299.	5792.	1.872	0.0907	0.0302	3.0314	0.7212	5.2792
1159.	1192.	6082.	1.894	0.0905	0.0304	2.9908	0.7157	5.1032
1187.	1299.	6414.	1.916	0.0910	0.0308	2.9533	0.7111	4.9376
1217.	1420.	6747.	0.939	0.0911	0.0312	2.9142	0.7018	4.7514
1244.	1532.	7079.	0.950	0.0914	0.0316	2.8970	0.6991	4.6208
1274.	1575.	7524.	1.983	0.0903	0.0321	2.8090	0.6734	4.3749
1305.	1840.	7577.	1.027	0.0839	0.0328	2.7083	0.6446	4.1179
1330.	1361.	7723.	1.025	0.0973	0.0331	2.6398	0.6223	3.9383
1362.	2151.	7958.	1.051	0.0848	0.0338	2.5108	0.5934	3.6578
1390.	2310.	8013.	1.072	0.0829	0.0341	2.4300	0.5584	3.4688

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***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****
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MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR--	HP
0.725	606.	3932.	817.	940.	0.0904	0.0289	3.122	0.749	6.592		0
0.750	675.	4256.	845.	972.	0.0903	0.0291	3.098	0.743	6.324		0
0.775	749.	4550.	873.	1004.	0.0902	0.0293	3.077	0.737	6.079		0
0.800	827.	4844.	901.	1037.	0.0901	0.0294	3.059	0.733	5.855		0
0.825	912.	5136.	929.	1069.	0.0902	0.0295	3.047	0.730	5.654		0
0.850	1005.	5459.	958.	1102.	0.0901	0.0298	3.023	0.724	5.444		0
0.875	1110.	5823.	986.	1134.	0.0905	0.0302	2.998	0.720	5.245		0
0.900	1222.	6177.	1014.	1166.	0.0908	0.0305	2.972	0.714	5.055		0
0.925	1344.	6553.	1042.	1199.	0.0911	0.0309	2.946	0.710	4.876		0
0.950	1478.	6921.	1070.	1231.	0.0913	0.0314	2.905	0.700	4.682		0
0.975	1627.	7285.	1098.	1264.	0.0907	0.0320	2.836	0.682	4.453		0
1.000	1796.	7614.	1127.	1296.	0.0934	0.0325	2.748	0.656	4.207		0

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

XC-142A(SK59958-DR) RUN 10 104 WALLS DOWN

BETA=10.0 AFE 37.8 DIA=10.670 WBL=4 TEMPC= 24.5 TEMPR= 535.79 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
705.	333.	2815.	C.540	0.1132	0.0377	3.0035	0.8065	8.4535
806.	505.	3655.	C.517	0.1125	0.0383	2.9400	0.7868	7.2376
920.	758.	4718.	C.704	0.1114	0.0386	2.8859	0.7688	6.2243
1037.	1166.	6200.	C.794	0.1153	0.0415	2.7742	0.7516	5.3082
1071.	1295.	6620.	C.820	0.1154	0.0418	2.7592	0.7479	5.1120
1101.	1429.	7080.	C.843	0.1168	0.0425	2.7491	0.7496	4.9545
1128.	1553.	7500.	C.864	0.1178	0.0429	2.7454	0.7521	4.8294
1156.	1689.	7923.	C.885	0.1185	0.0433	2.7345	0.7513	4.6937
1187.	1863.	8450.	C.909	0.1199	0.0442	2.7133	0.7497	4.5357
1217.	2040.	9015.	C.932	0.1217	0.0449	2.7104	0.7545	4.4191
1242.	2220.	9435.	C.951	0.1223	0.0460	2.6602	0.7423	4.2500
1268.	2409.	9840.	C.971	0.1223	0.0469	2.6103	0.7286	4.0847
1310.	2562.	10195.	1.003	0.1198	0.0470	2.5285	0.6954	3.8298
1336.	2845.	10420.	1.023	0.1157	0.0473	2.4660	0.6723	3.6626
1357.	3010.	10680.	1.039	0.1159	0.0478	2.4266	0.6594	3.5482
1386.	3220.	10910.	1.061	0.1135	0.0480	2.3667	0.6364	3.3882

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	849.	5055.	823.	947.	0.1127	0.0397	2.840	0.761	5.952		0
0.750	955.	5443.	851.	979.	0.1134	0.0403	2.813	0.756	5.698		0
0.775	1070.	5852.	880.	1012.	0.1142	0.0409	2.790	0.752	5.469		0
0.800	1190.	6272.	908.	1045.	0.1149	0.0414	2.775	0.751	5.271		0
0.825	1328.	6740.	936.	1077.	0.1161	0.0421	2.757	0.749	5.077		0
0.850	1467.	7209.	965.	1110.	0.1170	0.0425	2.750	0.750	4.915		0
0.875	1624.	7719.	993.	1143.	0.1182	0.0432	2.737	0.751	4.752		0
0.900	1794.	8250.	1022.	1175.	0.1195	0.0438	2.728	0.753	4.605		0
0.925	1988.	8732.	1050.	1208.	0.1210	0.0447	2.705	0.751	4.443		0
0.950	2209.	9407.	1078.	1241.	0.1222	0.0459	2.663	0.743	4.259		0
0.975	2428.	9939.	1107.	1273.	0.1213	0.0466	2.601	0.723	4.052		0
1.000	2650.	10202.	1135.	1306.	0.1196	0.0472	2.534	0.699	3.850		0

STATIC PROP PERFORMANCE

MODEL: 10-1 (SANDERSON-24) 400 NO 130 SAILS DOWN

REF: 12. AFR 97.5 DIA=16.6 INLES FETPC= 21.5 TEMPR= 524.59 SIGMA=1.9612

***** RAW DATA PCINFS *****

RPM	HP	TM	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
700	430	3286	C.54C	C.1341	C.C497	2.6959	0.7877	7.6419
811	686	4410	C.525	C.1340	C.C510	2.6275	0.7677	6.4286
930	1087	5549	C.717	C.1375	C.C536	2.5651	0.7590	5.4729
1048	1658	7893	C.818	C.1420	C.C571	2.4847	0.7471	4.7045
1068	1787	8133	C.823	C.1425	C.C582	2.4497	0.7380	4.5512
1105	2036	8861	C.852	C.1451	C.C599	2.4237	0.7367	4.3522
1130	2231	9443	C.871	C.1478	C.C613	2.41C5	0.7396	4.2326
1159	2453	9984	C.893	C.1486	C.C625	2.3774	0.7313	4.0701
1197	2654	10649	C.915	C.1511	C.C639	2.3647	0.7335	3.9529
1214	2528	11149	C.936	C.1512	C.C649	2.3297	0.723C	3.8077
1245	3228	11794	C.960	C.1521	C.C664	2.2925	0.7135	3.6537
1275	3493	12230	C.983	C.1504	C.C668	2.2498	0.6963	3.5013
1303	3735	12563	1.004	C.1479	C.C670	2.2088	0.6779	3.3636

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TM	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP	ERROR-	MP	TM
C.725	1134	6391	817	940	C.1377	C.C541	2.546	0.754	5.371		0	0
C.75C	1282	6579	846	973	C.1390	C.C552	2.515	0.748	5.130		0	0
C.775	1444	7093	874	1005	C.1403	C.C564	2.489	0.744	4.913		0	0
C.800	1618	7633	902	1038	C.1417	C.C574	2.468	0.741	4.718		0	0
C.825	1866	8198	930	1070	C.1431	C.C582	2.457	0.742	4.555		0	0
C.850	2021	8826	958	1103	C.1451	C.C598	2.427	0.738	4.367		0	0
C.875	2265	9518	987	1135	C.1477	C.C615	2.403	0.737	4.202		0	0
C.900	2525	10206	1015	1167	C.1497	C.C630	2.378	0.734	4.041		0	0
C.925	2807	10888	1043	1200	C.1512	C.C645	2.346	0.728	3.879		0	0
C.950	3104	11542	1071	1232	C.1519	C.C658	2.309	0.718	3.718		0	0
C.975	3395	12073	1099	1265	C.1509	C.C666	2.266	0.703	3.556		0	0
1.000	3688	12507	1127	1297	C.1486	C.C670	2.217	0.682	3.391		0	0

FD-35 (Rev. 4-15-64)

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

... 1941 ...

2PM	4PM	10	INACH	ACT	RCP	CF/CP	RFM	2PM/MP
695.	633.	372.	0.314	0.1562	0.0635	2.4213	0.7583	6.9145
844.	909.	507.	0.635	0.1571	0.0569	0.1573	0.7433	5.7283
877.	1174.	0.573	0.673	0.1592	0.0690	2.3359	0.7342	5.2172
923.	1353.	0.775	0.703	0.1593	0.0698	1.2783	0.7251	4.9908
995.	1373.	0.620	0.749	0.1650	0.0747	2.276	0.7155	6.3807
1040.	2197.	0.490	0.703	0.1697	0.0772	1.1971	0.7222	6.1918
1070.	2433.	0.740	0.421	0.1701	0.0788	1.1513	0.7104	6.0333
1107.	2721.	0.682	0.456	0.1749	0.0811	1.1556	0.7192	3.9803
1131.	3061.	1.1395	0.956	0.1781	0.0839	2.1213	0.7146	3.7224
1156.	3329.	1.2080	0.147	0.1907	0.0955	2.1141	0.7172	3.6229
1159.	3363.	1.1220	0.110	0.1936	0.0857	2.1051	0.7134	3.6039

***** FITTED CURVE: C111 R CONSTANT EACH NUMBER *****

MACH	M ₂	TH	TIPS	APM	CT	C ₂	CF/CP	FM	TH/MP	ERROR-MP
0.725	1520.	72.5.	521.	744.	0.1515	0.0715	2.257	5.724	4.741	0
0.775	1726.	73.12.	549.	777.	0.1536	0.0734	2.229	5.719	4.526	0
0.775	1929.	84.50.	379.	1010.	0.1557	0.0751	2.205	5.717	4.335	0
0.800	2204.	91.72.	306.	1042.	0.1693	0.0772	2.136	5.717	4.162	0
0.825	2483.	90.28.	924.	1075.	0.1719	0.0795	2.166	5.716	3.998	0
0.850	2798.	107.33.	952.	1107.	0.1750	0.0817	2.141	5.715	3.836	0
0.875	3146.	110.09.	991.	1140.	0.1746	0.0843	2.119	5.715	3.689	0

STATIC PROP PERFORMANCE

XC-142A(SK59800-01) (M) 40 1.7 MILLS 004N

BETA=0.0 AF= 07.5 11450000 PL4 F MDC= 20.5 11450000 0.59 SIGMA=0.9620

***** RAW DATA POINTS *****

ROM	HP	TH	TMACH	RCI	RCP	RCI/CP	IFM	RTM/MP
700.	714.	4322.	0.240	0.1763	0.0426	2.1355	5.7156	6.0532
772.	1011.	5392.	0.500	0.1778	0.0852	2.0973	5.7323	5.3234
914.	1174.	5881.	0.523	0.1774	0.0963	2.0550	5.6303	5.0094
975.	1520.	5992.	0.675	0.1323	0.0900	2.2256	5.6902	4.5934
928.	1431.	8200.	0.715	0.1857	0.0939	1.9786	5.6904	4.2306
960.	2129.	8603.	0.740	0.1856	0.0955	1.9350	5.6740	4.0409
999.	2591.	9725.	0.770	0.1948	0.1031	1.8997	5.6556	3.7534
1020.	2949.	10411.	0.786	0.2050	0.1065	1.8785	5.6705	3.5543

***** FITTED CURVE DATA FOR INSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	QPM	CT	CP	CT/CP	FA	TH/MP	ERROR-	MP
0.725	1989.	4252.	517.	940.	0.1855	0.0949	1.956	5.678	4.148		0
0.750	2393.	9048.	846.	973.	0.1911	0.0992	1.927	5.572	3.930		0
0.775	2660.	9326.	874.	1005.	0.1963	0.1038	1.891	5.659	3.732		0

STATIC PROP PERFORMANCE

XC-142A(S65784A-1)1-RUN 0118 HALLS 0047
BETA=16.0) 3F= 07.8 DIA=10.507 HULL=4 TEMPC= 20.0 LENGTH= 27.59 SIGMA=0.9540

***** RAW DATA POINTS *****

RPM	MP	TM	T/MACH	RCT	ACP	CT/CP	RFM	TH/MP
596.	301.	4729.	0.532	0.1940	0.1051	1.9453	0.6490	5.2486
780.	1342.	5335.	0.602	0.1983	0.1122	1.7678	0.6282	4.4370
812.	1549.	5614.	0.527	0.2006	0.1148	1.7479	0.6247	4.2711
871.	1929.	7549.	0.572	0.1983	0.1158	1.7178	0.6114	3.9134
929.	2411.	8690.	0.717	0.2013	0.1193	1.6875	0.6042	3.6043
962.	2762.	9473.	0.742	0.2047	0.1231	1.6537	0.6007	3.4316
965.	2792.	9519.	0.743	0.2039	0.1229	1.6593	0.5981	3.4094
969.	2803.	9540.	0.748	0.2031	0.1222	1.6621	0.5978	3.4035

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	MP	TM	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP	ERROR-	MP
0.725	2518.	8921.	317.	940.	0.2020	0.1204	1.577	0.602	3.542		0

STUDY

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[The page contains faint vertical markings or bleed-through from another document.]

1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	3301	3302	3303	3304	3305	3306	3307	3308	3309	3310	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341	3342	3343	3344	334

..... FIELD CURVE DATA FOR C-15147 "ACH" WINTER INC. 0000

[illegible]

NOT REPRODUCIBLE

STATIC PUMP PERFORMANCE

XC-24 (ASD-69-15) - 1000 RPM

1. The following data were obtained from the static pump performance test.

2. The data are given in the following table.

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	341.	2547.	618.	949.	0.0549	0.0205	3.167	0.644	0.680
0.750	424.	2712.	646.	1034.	0.0546	0.0206	3.135	0.636	0.393
0.775	470.	2879.	674.	1068.	0.0542	0.0207	3.106	0.628	0.128
0.800	518.	3050.	702.	1113.	0.0539	0.0207	3.079	0.621	5.985
0.825	570.	3223.	730.	1157.	0.0535	0.0208	3.049	0.613	5.651
0.850	626.	3407.	759.	1212.	0.0532	0.0209	3.023	0.607	5.462
0.875	686.	3593.	787.	1266.	0.0528	0.0210	2.978	0.594	5.254
0.900	753.	3781.	815.	1321.	0.0524	0.0211	2.910	0.579	4.945
0.925	827.	3971.	843.	1376.	0.0520	0.0212	2.826	0.560	4.571
0.950	909.	4163.	871.	1431.	0.0516	0.0213	2.703	0.532	4.134
0.975	1001.	4357.	900.	1486.	0.0512	0.0214	2.551	0.497	3.643
1.000	1103.	4553.	929.	1541.	0.0508	0.0215	2.372	0.451	3.030

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT AND ORDER. TH, 5

STATIC PUMP PERFORMANCE

XC-142A(SK-29461-12) 201 144 FALLS DOWN

BETA= 5.0 AF=0.004 DIA=0.5025 WIL=4 I NPG= 20.5 TEMP= 28.23 SIGMA=0.9633

***** DATA POINTS *****

RPM	HP	TH	TRACH	RCT	RCP	RCT/CP	RFR	RTH/HP
727	196	1795	0.520	0.0165	0.0274	3.1671	0.7419	9.1633
857	226	2544	0.622	0.0402	0.0273	3.1725	0.7519	7.8037
980	431	3292	0.711	0.0873	0.0280	3.1169	0.7349	6.7047
1100	720	4112	0.798	0.0855	0.0283	3.0565	0.7176	5.8575
1127	754	4278	0.816	0.0858	0.0283	3.0333	0.7089	5.6737
1160	836	4569	0.842	0.0865	0.0288	3.0074	0.7057	5.4653
1194	911	4818	0.857	0.0861	0.0297	2.9955	0.7013	5.2887
1230	1005	5084	0.895	0.0857	0.0290	2.9510	0.6892	5.0577
1262	1063	5234	0.909	0.0850	0.0291	2.9243	0.6805	4.8238
1294	1197	5566	0.932	0.0860	0.0304	2.8323	0.6627	4.6500
1310	1249	5691	0.955	0.0337	0.0374	2.7562	0.6363	4.4151
1344	1405	5857	0.976	0.0426	0.0311	2.6578	0.6095	4.1687
1370	1549	5950	0.994	0.0607	0.0317	2.5457	0.5772	3.9171
1410	1743	6064	1.027	0.0771	0.0330	2.3353	0.5176	3.4791

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CF	CP	CT/CP	FM	TH/MP
0.725	522	3419	817	999	0.0873	0.0281	3.105	0.732	6.554
0.750	580	3649	845	1033	0.0971	0.0282	3.083	0.726	6.290
0.775	643	3885	873	1068	0.0968	0.0283	3.062	0.720	6.046
0.800	707	4121	902	1100	0.0864	0.0284	3.046	0.715	5.827
0.825	779	4374	930	1137	0.0862	0.0285	3.029	0.710	5.618
0.850	858	4642	958	1170	0.0862	0.0287	3.006	0.704	5.412
0.875	937	4895	986	1200	0.0858	0.0287	2.987	0.698	5.214
0.900	1036	5174	1014	1230	0.0837	0.0292	2.936	0.686	4.992
0.925	1147	5437	1043	1260	0.0833	0.0298	2.865	0.668	4.739
0.950	1271	5678	1071	1309	0.0844	0.0304	2.774	0.643	4.468
0.975	1405	5906	1099	1343	0.0827	0.0311	2.655	0.609	4.167
1.000	1558	6142	1127	1378	0.0803	0.0320	2.509	0.567	3.840

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

XC-142A(SK-52864-12) 3000 40 15.3 MILLS DOWN

BETA= 8.0 AF=122.4 OIA=15.0 5 OI=4 TAPC= 20.0 TEMPR= 527.69 SIGMA=C.9640

***** AIA DATA PLOTS *****

RPM	HP	TH	TMACH	KCI	RCF	RCF	CLT/CP	CFM	RTH/MP
734.	290.	4256.	0.536	0.1116	0.0374	2.9833	0.7952	8.5214	
865.	404.	3278.	0.528	0.1116	0.0381	2.9304	0.7811	7.1416	
979.	576.	4149.	0.711	0.1102	0.0387	2.8504	0.7552	6.1376	
1105.	793.	5270.	0.672	0.1099	0.0395	2.7819	0.7360	5.3072	
1227.	1056.	5498.	0.816	0.1102	0.0396	2.7835	0.7375	5.2064	
1258.	1163.	5830.	0.941	0.1107	0.0402	2.7537	0.7312	5.0129	
1197.	1259.	6141.	0.854	0.1104	0.0404	2.7318	0.7245	4.8392	
1230.	1418.	6598.	0.893	0.1111	0.0409	2.7150	0.7220	4.6530	
1253.	1514.	6846.	0.910	0.1111	0.0413	2.6877	0.7147	4.5218	
1283.	1646.	7159.	0.932	0.1107	0.0418	2.5467	0.7029	4.1487	
1317.	1819.	7479.	0.956	0.1098	0.0428	2.5687	0.6793	4.1116	
1346.	1980.	7780.	0.978	0.1094	0.0436	2.5089	0.6421	3.9293	
1374.	2157.	7998.	0.998	0.1079	0.0446	2.4168	0.6335	3.7079	
1408.	2339.	8195.	1.023	0.1053	0.0450	2.3491	0.6059	3.5036	

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.725	721.	4321.	917.	998.	0.1104	0.0389	2.839	0.753	5.995
0.750	804.	4622.	845.	1033.	0.1104	0.0392	2.817	0.747	5.751
0.775	893.	4934.	873.	1067.	0.1103	0.0394	2.798	0.742	5.527
0.800	987.	5257.	901.	1102.	0.1103	0.0397	2.782	0.737	5.324
0.825	1088.	5587.	929.	1136.	0.1103	0.0398	2.769	0.734	5.137
0.850	1201.	5948.	958.	1170.	0.1106	0.0402	2.750	0.730	4.952
0.875	1324.	6319.	986.	1205.	0.1109	0.0406	2.728	0.725	4.773
0.900	1455.	6694.	1014.	1239.	0.1110	0.0410	2.704	0.719	4.600
0.925	1605.	7059.	1042.	1274.	0.1108	0.0417	2.658	0.706	4.399
0.950	1771.	7406.	1070.	1308.	0.1107	0.0425	2.594	0.687	4.181
0.975	1962.	7732.	1098.	1342.	0.1099	0.0435	2.509	0.662	3.940
1.000	2159.	8001.	1127.	1377.	0.1075	0.0444	2.421	0.633	3.706

STATIC PROP PERFORMANCE

XC-142A(SK-5780R-12) RUN NO 146 ALLS DOWN

RETA=10.0 AF=109.4 DIA=15.025 THL=4 TEMPC= 19.0 IMPR= 525.89 SIGMA=0.9670

***** RAW DATA PLOTS *****

RPM	HP	TH	FMACH	RCT	KCP	RCT/CP	RFM	RTM/HP
729.	376.	5875.	0.538	0.1341	0.0500	2.6805	0.7632	7.6463
854.	589.	3026.	0.621	0.1336	0.0528	2.5315	0.7676	6.4958
923.	924.	5089.	0.715	0.1341	0.0525	2.5567	0.7471	5.4828
1103.	1352.	6495.	0.802	0.1362	0.0542	2.5117	0.7398	4.8047
1160.	1615.	7222.	0.844	0.1386	0.0555	2.4948	0.7411	4.5337
1193.	1795.	7837.	0.868	0.1402	0.0568	2.4759	0.7384	4.3660
1233.	2026.	8397.	0.897	0.1407	0.0580	2.4242	0.7255	4.1446
1257.	2164.	8911.	0.914	0.1420	0.0535	2.4279	0.7301	4.0716
1287.	2351.	9245.	0.936	0.1421	0.0595	2.3906	0.7193	3.9157
1319.	2628.	9604.	0.960	0.1435	0.0615	2.3342	0.7057	3.7306
1346.	2829.	1072.	0.979	0.1416	0.0618	2.2894	0.6875	3.5856
1379.	3072.	10341.	1.003	0.1385	0.0629	2.2021	0.6539	3.3662
1410.	3285.	10621.	1.026	0.1362	0.0629	2.1646	0.6375	3.2362

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	970.	5238.	815.	997.	0.1343	0.0526	2.553	0.747	5.401
0.750	1089.	5639.	843.	1031.	0.1351	0.0534	2.532	0.743	5.178
0.775	1219.	6061.	872.	1065.	0.1360	0.0541	2.515	0.740	4.976
0.800	1356.	6503.	900.	1100.	0.1370	0.0548	2.501	0.739	4.794
0.825	1503.	6953.	928.	1134.	0.1377	0.0553	2.489	0.737	4.627
0.850	1663.	7439.	956.	1169.	0.1388	0.0560	2.479	0.737	4.473
0.875	1847.	7965.	984.	1203.	0.1402	0.0570	2.461	0.736	4.314
0.900	2042.	8481.	1012.	1237.	0.1411	0.0579	2.438	0.731	4.154
0.925	2256.	9027.	1040.	1272.	0.1422	0.0592	2.403	0.723	3.984
0.950	2511.	9578.	1064.	1306.	0.1430	0.0605	2.363	0.713	3.815
0.975	2774.	10274.	1095.	1340.	0.1424	0.0619	2.293	0.669	3.607
1.000	3129.	10340.	1125.	1375.	0.1395	0.0626	2.223	0.664	3.417

STATIC PUMP TEST DATA											
XC-142A(SK-1000) - 21 - 1-7 2000 MW											
DEFINITIONS: RPM = 1000, 1-4PM = 526.79 SIGMA=0.9660											
***** POINT 1 *****											
RPM	HP	TH	TIPS	RPM	CT	CP	CT/CP	KFM	RTM/HP		
725	496	6216	816	997	0.1591	0.0689	2.310	0.7635	6.9012		
795	636	6706	844	1032	0.1604	0.0700	2.291	0.7652	6.3864		
845	701	7238	872	1066	0.1622	0.0712	2.277	0.7586	5.8443		
925	794	7781	900	1101	0.1636	0.0723	2.264	0.7418	5.3441		
979	1099	8374	929	1135	0.1656	0.0734	2.255	0.7451	5.0250		
1052	1515	8957	937	1159	0.1675	0.0747	2.244	0.7269	4.5620		
1102	1815	9525	945	1204	0.1704	0.0764	2.229	0.7307	4.3238		
1132	1983	9944	953	1248	0.1735	0.0787	2.205	0.7325	4.0774		
1162	2153	10345	961	1275	0.1746	0.0797	2.1895	0.7335	3.9465		
1195	2322	10740	969	1307	0.1755	0.0819	2.1435	0.7297	3.7927		
1231	2492	11133	977		0.1738	0.0831	2.0919	0.7166	3.6778		
1255	2655	11525	985					0.6959	3.5055		
1299	2826	11917	993						3.3357		
1322	3075	12309	1001								
***** FITTED CURVE DATA FOR CONSTANT EACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6											
PACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP		
0.725	1273	6216	816	997	0.1591	0.0689	2.310	0.735	4.882		
0.750	1432	6706	844	1032	0.1604	0.0700	2.291	0.732	4.681		
0.775	1593	7238	872	1066	0.1622	0.0712	2.277	0.732	4.502		
0.800	1795	7781	900	1101	0.1636	0.0723	2.264	0.731	4.336		
0.825	2000	8374	929	1135	0.1656	0.0734	2.255	0.732	4.198		
0.850	2224	8957	937	1159	0.1675	0.0747	2.244	0.733	4.045		
0.875	2483	9595	945	1204	0.1704	0.0764	2.229	0.734	3.904		
0.900	2793	10445	953	1248	0.1735	0.0787	2.205	0.733	3.754		
0.925	3096	11103	961	1275	0.1746	0.0806	2.165	0.722	3.587		
0.950	3429	11706	969	1307	0.1745	0.0825	2.117	0.706	3.414		

STATIC PROP PERFORMANCE

XC-157A(SK-59650-12) RUN NO 148 WALLS DOWN

BETA=14.0 AF=109.4 DIA=5.05 VOL=4 TEMPC= 13.5 TCMPE= 524.99 SIGMA=0.9700

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	KFM	RTH/HP
732.	620.	3773.	0.533	0.1793	0.0821	2.1836	0.7379	6.2883
796.	782.	4454.	0.580	0.1790	0.0832	2.1507	0.7462	5.5957
861.	935.	5175.	0.627	0.1778	0.0837	2.1243	0.7148	5.2010
924.	1205.	5961.	0.673	0.1808	0.0862	2.0985	0.7120	4.7875
983.	1577.	6989.	0.716	0.1842	0.0891	2.0666	0.7078	4.4318
1047.	1955.	8062.	0.762	0.1873	0.0914	2.0482	0.7074	4.1238
1100.	2368.	9113.	0.801	0.1918	0.0955	2.0081	0.7018	3.8484
1129.	2599.	9691.	0.822	0.1936	0.0970	1.9970	0.7012	3.7287
1160.	2856.	10330.	0.845	0.1955	0.0982	1.9903	0.7023	3.6169
1190.	3171.	11134.	0.866	0.2002	0.1010	1.9821	0.7078	3.5112
1219.	3438.	11773.	0.888	0.2018	0.1034	1.9518	0.6996	3.3753

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH. 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1643.	7188.	815.	996.	0.1346	0.0893	2.066	0.709	4.375
0.750	1859.	7783.	843.	1030.	0.1468	0.0913	2.046	0.706	4.188
0.775	2092.	8409.	871.	1064.	0.1890	0.0931	2.030	0.704	4.020
0.800	2349.	9071.	899.	1099.	0.1914	0.0951	2.013	0.703	3.862
0.825	2630.	9784.	927.	1133.	0.1941	0.0970	2.000	0.703	3.721
0.850	2948.	10550.	955.	1167.	0.1972	0.0995	1.982	0.702	3.579
0.875	3295.	11363.	983.	1202.	0.2004	0.1019	1.966	0.702	3.449

STATIC PROP PERFORMANCE

XC-147A(SK-59802-12) RUN NO 149 WALLS DOWN

BETA=16.0 AF=103.4 DIA=15.625 WPL=4 TEMPC= 18.0 TENPR= 524.09 SIGMA=C.9690

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	ACP	RCT/CP	KFM	RTH/HP
720.	736.	4210.	0.531	0.2018	0.1020	1.9781	0.7090	5.7201
800.	1002.	5119.	0.584	0.2032	0.1047	1.9412	0.6983	5.1088
850.	1224.	5841.	0.519	0.2059	0.1070	1.9242	0.6967	4.7721
926.	1631.	7038.	0.675	0.2090	0.1103	1.8955	0.6916	4.3151
970.	1976.	7946.	0.713	0.2111	0.1131	1.8675	0.6848	4.0213
1047.	2525.	9370.	0.763	0.2177	0.1181	1.8431	0.6862	3.7109
1095.	3129.	10815.	0.825	0.2256	0.1245	1.8118	0.6867	3.4564
1112.	3206.	10918.	0.810	0.2249	0.1253	1.7953	0.6794	3.4034

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2097.	8278.	814.	995.	0.2130	0.1143	1.863	0.686	3.948
0.750	2383.	8995.	842.	1029.	0.2163	0.1174	1.843	0.684	3.775
0.775	2700.	9766.	870.	1063.	0.2199	0.1205	1.824	0.683	3.616
0.800	3049.	10591.	898.	1098.	0.2238	0.1237	1.809	0.683	3.474

STATIC PROP PERFORMANCE

XC-14-A(SK-3086A-12) RUN 130 FALLS DOWN

HETA=18.0 AF=109.4 DIA=10.625 QBL=4 TEMPC= 18.5 TempR= 524.99 SIGMA=0.9690

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
735.	738.	4727.	0.535	0.2228	0.1268	1.7571	0.6619	5.0394
793.	1207.	5531.	0.582	0.2206	0.1270	1.7369	0.6511	4.5824
855.	1528.	6419.	0.623	0.2231	0.1308	1.7058	0.6430	4.2009
893.	1784.	7141.	0.655	0.2250	0.1318	1.7070	0.6462	4.0028
951.	2174.	8008.	0.692	0.2255	0.1357	1.6618	0.6297	3.6835
973.	2411.	8566.	0.713	0.2276	0.1379	1.6500	0.6282	3.5529
1023.	2940.	9711.	0.745	0.2363	0.1477	1.5997	0.6206	3.2963

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2621.	9017.	815.	995.	0.2316	0.1425	1.625	0.624	3.440

ASD-TR-69-15
PART II

STATIC PROP PERFORMANCE

XC-142A(SK-59859-12) RUN NO 151 ALLS DOWN

BETA=20.0 AF=100.0 DIA=15.675 INLE=4 TEMPC= 18.5 TEMPR= 104.99 SIGMA=0.9790

***** RAW DATA POINTS *****

RPM	HP	TH	TSACH	RCT	RCP	RCT/CP	RFM	RTH/HP
741.	1153.	5015.	0.540	0.2326	0.1521	1.5289	0.5884	4.3495
803.	1485.	5003.	0.582	0.2349	0.1557	1.5085	0.5834	3.9751
855.	1856.	6791.	0.623	0.2365	0.1594	1.4840	0.5760	3.6589
899.	2169.	7492.	0.655	0.2361	0.1603	1.4731	0.5712	3.4541
950.	2625.	8421.	0.692	0.2376	0.1641	1.4485	0.5635	3.2141
967.	2796.	8751.	0.704	0.2383	0.1660	1.4357	0.5593	3.1298

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP

STATIC PROP PERFORMANCE

XC-1-2A(SK-59RUB-12R) RPM NO 152 WALLS DOWN

BETA = 4.0 AF = 99.0 DIA = 15.025 NBL = 4 TEMPC = 23.0 TEMPR = 533.0 SIGMA = 0.9480

***** RAW DATA PLINIS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
734.	141.	1445.	C.53C	C.683	C.0191	3.5683	0.7442	10.2482
800.	181.	1714.	C.578	C.682	C.0190	3.5937	0.7490	9.4696
855.	224.	1951.	C.618	C.680	C.0192	3.5326	0.7350	8.7098
987.	348.	2511.	C.713	C.656	C.0194	3.3784	0.6907	7.2155
1102.	498.	3059.	C.796	C.642	C.0200	3.2111	0.6490	6.1426
1129.	536.	3249.	C.816	C.649	C.0200	3.2464	0.6601	6.0616
1158.	582.	3365.	C.837	C.639	C.0201	3.1761	0.6407	5.7818
1189.	635.	3544.	C.859	C.638	C.0203	3.1479	0.6347	5.5811
1231.	711.	3797.	C.889	C.638	C.0205	3.1185	0.6287	5.3404
1254.	765.	3924.	C.906	C.636	C.0208	3.0513	0.6138	5.1294
1284.	829.	4072.	C.928	C.629	C.0210	2.9919	0.5988	4.9119
1322.	933.	4177.	C.955	C.609	C.0217	2.8076	0.5528	4.4770
1346.	1013.	4304.	C.973	C.605	C.0223	2.7129	0.5325	4.2488
1372.	1105.	4304.	C.991	C.0582	C.0230	2.5350	0.4882	3.8950
1414.	1270.	4430.	1.022	C.0564	C.0241	2.3398	0.4435	3.4882

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	368.	2592.	821.	1003.	0.0656	0.0196	3.350	0.645	7.039		0
0.750	411.	2758.	849.	1038.	0.0652	0.0197	3.308	0.674	6.717		0
0.775	456.	2929.	878.	1073.	0.0649	0.0198	3.268	0.664	6.423		0
0.800	504.	3103.	906.	1107.	0.0645	0.0199	3.232	0.655	6.153		0
0.825	557.	3288.	934.	1142.	0.0642	0.0201	3.198	0.647	5.904		0
0.850	612.	3481.	962.	1176.	0.0641	0.0202	3.175	0.641	5.690		0
0.875	675.	3672.	991.	1211.	0.0638	0.0204	3.126	0.630	5.441		0
0.900	743.	3879.	1019.	1246.	0.0637	0.0207	3.083	0.621	5.218		0
0.925	822.	4043.	1047.	1280.	0.0628	0.0210	2.985	0.597	4.916		0
0.950	914.	4182.	1076.	1315.	0.0616	0.0216	2.854	0.565	4.575		0
0.975	1023.	4278.	1104.	1349.	0.0598	0.0223	2.678	0.523	4.183		0
1.000	1148.	4364.	1132.	1384.	0.0580	0.0233	2.495	0.480	3.800		0

STATIC PROP PERFORMANCE

XC-142A(SK-59868-12R) RUN NO 153 WALLS DOWN

BETA= 6.0 AF= 99.0 DIA=15.625 NPL=4 TEMPC= 22.6 TEMPR= 532.37 SIGMA=C.9530

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
744.	199.	1913.	C.538	0.0879	0.0259	3.3875	C.8013	9.5980
855.	311.	2508.	C.618	0.0874	0.0267	3.2708	C.7715	8.0643
978.	478.	3253.	C.707	0.0866	0.0274	3.1573	0.7415	6.8054
1102.	681.	3987.	C.797	0.0836	0.0273	3.0606	0.7062	5.8546
1126.	727.	4176.	C.814	0.0839	0.0273	3.0682	0.7091	5.7442
1155.	791.	4407.	0.835	0.0841	0.0276	3.0526	0.7066	5.5714
1187.	865.	4659.	C.858	0.0842	0.0278	3.0328	0.7023	5.3861
1226.	961.	4984.	0.886	0.0844	0.0280	3.0162	0.6995	5.1863
1256.	1044.	5226.	C.908	0.0844	0.0283	2.9825	0.6913	5.0057
1286.	1125.	5456.	0.930	0.0840	0.0284	2.9586	0.6844	4.8498
1318.	1248.	5666.	0.953	0.0831	0.0293	2.8386	0.6529	4.5401
1346.	1365.	5855.	0.973	0.0823	0.0301	2.7388	0.6270	4.2894
1384.	1514.	5929.	1.001	0.0788	0.0307	2.5711	0.5761	3.9161
1412.	1640.	6023.	1.021	0.0769	0.0313	2.4599	0.5445	3.6726

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	514.	3385.	820.	1003.	0.0857	0.0274	3.134	0.732	6.589		0
0.750	570.	3603.	849.	1037.	0.0853	0.0274	3.110	0.725	6.320		0
0.775	630.	3825.	877.	1072.	0.0848	0.0275	3.089	0.718	6.075		0
0.800	693.	4054.	905.	1106.	0.0843	0.0275	3.070	0.711	5.849		0
0.825	760.	4287.	933.	1141.	0.0839	0.0275	3.053	0.705	5.640		0
0.850	837.	4571.	962.	1176.	0.0842	0.0277	3.045	0.705	5.460		0
0.875	922.	4853.	990.	1210.	0.0844	0.0279	3.021	0.700	5.263		0
0.900	1010.	5135.	1018.	1245.	0.0844	0.0281	3.003	0.696	5.085		0
0.925	1111.	5401.	1047.	1279.	0.0840	0.0285	2.949	0.682	4.859		0
0.950	1232.	5650.	1075.	1314.	0.0834	0.0292	2.859	0.659	4.586		0
0.975	1367.	5833.	1103.	1348.	0.0817	0.0299	2.730	0.623	4.268		0
1.000	1511.	5955.	1132.	1383.	0.0793	0.0307	2.585	0.581	3.941		0

STATIC PROP PERFORMANCE

XC-142A(SK-59863-12R) RUN NO 154 WALLS DOWN

BETA= 8.0 AF= 99.0 DIA=15.625 NBL=4 TEMPC= 22.5 TEMPR= 532.19 SIGMA=0.9500

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
730.	254.	2263.	0.528	0.1082	0.0351	3.0853	0.8097	8.9094
854.	419.	3126.	0.618	0.1092	0.0361	3.0224	0.7969	7.4606
985.	658.	4384.	0.712	0.1072	0.0370	2.9001	0.7517	6.2067
1103.	939.	5137.	0.798	0.1075	0.0376	2.8625	0.7491	5.4707
1129.	1001.	5316.	0.816	0.1062	0.0373	2.8442	0.7397	5.3107
1160.	1098.	5684.	0.839	0.1076	0.0378	2.8486	0.7456	5.1767
1189.	1156.	5979.	0.860	0.1077	0.0382	2.8197	0.7385	4.9992
1227.	1352.	6474.	0.887	0.1095	0.0393	2.7872	0.7360	4.7885
1257.	1460.	6800.	0.909	0.1096	0.0395	2.7772	0.7337	4.6575
1281.	1555.	6989.	0.926	0.1085	0.0397	2.7312	0.7178	4.4945
1318.	1763.	7453.	0.953	0.1093	0.0413	2.6431	0.6972	4.2275
1351.	1925.	7684.	0.977	0.1072	0.0419	2.5582	0.6685	3.9917
1378.	2080.	7895.	0.997	0.1059	0.0427	2.4812	0.6443	3.7957
1406.	2280.	8137.	1.017	0.1048	0.0440	2.3803	0.6150	3.5689

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	696.	4247.	820.	1093.	0.1076	0.0371	2.900	0.759	6.099		0
0.750	775.	4539.	848.	1037.	0.1075	0.0373	2.883	0.754	5.859		0
0.775	858.	4840.	877.	1072.	0.1073	0.0374	2.868	0.750	5.642		0
0.800	946.	5143.	905.	1106.	0.1070	0.0375	2.852	0.745	5.435		0
0.825	1041.	5475.	933.	1141.	0.1071	0.0376	2.846	0.743	5.260		0
0.850	1151.	5838.	962.	1175.	0.1076	0.0381	2.828	0.740	5.072		0
0.875	1279.	6260.	990.	1210.	0.1089	0.0388	2.809	0.740	4.894		0
0.900	1409.	6638.	1018.	1245.	0.1091	0.0392	2.781	0.733	4.711		0
0.925	1561.	7026.	1046.	1279.	0.1094	0.0400	2.731	0.721	4.500		0
0.950	1725.	7361.	1075.	1314.	0.1086	0.0409	2.659	0.699	4.266		0
0.975	1913.	7672.	1103.	1348.	0.1075	0.0419	2.565	0.671	4.011		0
1.000	2122.	7954.	1131.	1383.	0.1059	0.0431	2.459	0.639	3.748		0

STATIC PROP PERFORMANCE

XC-142A(SK-59868-12R) RUN NUJ 155 WALLS DQWN

BETA=10.0 AF= 99.1 DIA=15.625 NBL=4 TEMPC= 22.3 TEMPR= 531.29 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
736.	351.	2806.	0.533	0.1319	0.0473	2.7911	0.8090	7.9943
853.	549.	3692.	0.617	0.1292	0.0475	2.7212	0.7806	6.7250
981.	874.	4989.	0.710	0.1320	0.0497	2.6564	0.7702	5.7082
1088.	1259.	6297.	0.787	0.1355	0.0525	2.5814	0.7582	5.0016
1128.	1374.	6624.	0.816	0.1326	0.0514	2.5797	0.7496	4.8210
1159.	1519.	7068.	0.839	0.1340	0.0524	2.5583	0.7473	4.6531
1191.	1660.	7426.	0.862	0.1333	0.0528	2.5274	0.7365	4.4735
1227.	1852.	8027.	0.888	0.1358	0.0538	2.5228	0.7418	4.3342
1253.	2022.	8407.	0.907	0.1364	0.0552	2.4713	0.7283	4.1578
1288.	2365.	9040.	0.932	0.1388	0.0594	2.3355	0.6943	3.8224
1314.	2452.	9388.	0.951	0.1385	0.0580	2.3865	0.7087	3.8287
1349.	2723.	9789.	0.976	0.1370	0.0595	2.3005	0.6795	3.5949
1376.	2926.	10074.	0.996	0.1355	0.0603	2.2473	0.6602	3.4429

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	943.	5212.	820.	1002.	0.1323	0.0503	2.627	0.753	5.529		0
0.750	1055.	5594.	848.	1036.	0.1327	0.0509	2.608	0.758	5.305		0
0.775	1175.	5993.	876.	1071.	0.1331	0.0514	2.592	0.755	5.102		0
0.800	1304.	6420.	904.	1105.	0.1338	0.0519	2.581	0.753	4.922		0
0.825	1441.	6832.	933.	1140.	0.1339	0.0522	2.563	0.749	4.741		0
0.850	1578.	7225.	961.	1174.	0.1334	0.0523	2.550	0.743	4.578		0
0.875	1746.	7726.	989.	1209.	0.1346	0.0531	2.537	0.743	4.424		0
0.900	1977.	8266.	1017.	1243.	0.1362	0.0552	2.466	0.726	4.181		0
0.925	2225.	8848.	1046.	1278.	0.1380	0.0572	2.410	0.714	3.976		0
0.950	2481.	9357.	1074.	1313.	0.1383	0.0589	2.349	0.697	3.772		0
0.975	2721.	9778.	1102.	1347.	0.1372	0.0598	2.297	0.679	3.594		0

STATIC PROP PERFORMANCE

XC-142A(SK-59863-12R) RUN NO 156 WALLS DOWN

BETA=12.0 AF= 99.0 DIA=15.625 NBL=4 TEMPC= 21.0 TEMPR= 529.49 SIGMA=1.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
734.	452.	3235.	C.532	C.1529	0.0614	2.4920	0.7777	7.1571
804.	609.	3929.	C.583	C.1548	0.0629	2.4606	0.7725	6.4516
857.	742.	4454.	C.621	C.1544	0.0633	2.4403	0.7653	6.0027
923.	934.	5168.	C.669	C.1545	0.0638	2.4227	0.7599	5.5332
983.	1163.	5987.	C.713	C.1578	0.0657	2.4005	0.7609	5.1479
1053.	1456.	6807.	C.763	C.1563	0.0669	2.3353	0.7369	4.6751
1100.	1695.	7542.	C.798	C.1587	0.0684	2.3218	0.7382	4.4496
1132.	1903.	8130.	C.821	C.1616	0.0704	2.2941	0.7359	4.2722
1160.	2084.	8624.	C.841	C.1632	0.0717	2.2771	0.7342	4.1382
1190.	2318.	9227.	C.863	C.1659	0.0738	2.2471	0.7305	3.9806
1234.	2690.	10147.	C.895	C.1697	0.0769	2.2081	0.7259	3.7721
1236.	2710.	10231.	C.896	C.1706	0.0771	2.2135	0.7295	3.7753
1256.	2842.	10378.	C.911	C.1675	0.0770	2.1757	0.7107	3.6517
1287.	3113.	10945.	C.933	C.1683	0.0784	2.1465	0.7027	3.5159
1315.	3418.	11470.	C.953	C.1689	0.0807	2.0933	0.6866	3.3558

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1222.	6135.	818.	1000.	0.1562	0.0656	2.382	0.751	5.022		0
0.750	1375.	6607.	846.	1034.	0.1572	0.0667	2.357	0.746	4.804		0
0.775	1540.	7091.	875.	1069.	0.1581	0.0677	2.335	0.741	4.606		0
0.800	1721.	7602.	903.	1103.	0.1590	0.0688	2.312	0.736	4.417		0
0.825	1935.	8221.	931.	1138.	0.1617	0.0705	2.293	0.736	4.248		0
0.850	2181.	8876.	959.	1172.	0.1645	0.0727	2.263	0.732	4.069		0
0.875	2458.	9599.	987.	1207.	0.1678	0.0751	2.236	0.731	3.905		0
0.900	2735.	10227.	1016.	1241.	0.1690	0.0767	2.202	0.723	3.740		0
0.925	3035.	10816.	1044.	1276.	0.1692	0.0785	2.157	0.708	3.564		0
0.950	3358.	11360.	1072.	1310.	0.1685	0.0801	2.103	0.689	3.383		0

STATIC PROP PERFORMANCE

XC-142A(SK-59868-12R) RUN NO 157 WALLS DOWN

BETA=14.0 AF= 99.1 DIA=15.620 NBL=4 TEMPC= 20.0 TEMPR= 527.69 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
742.	591.	3828.	C.539	0.1773	0.0778	2.2791	0.7658	6.4772
800.	759.	4561.	C.581	0.1817	0.0797	2.2798	0.7755	6.0092
854.	930.	5146.	C.620	0.1799	0.0803	2.2409	0.7585	5.5333
930.	1227.	6151.	C.675	0.1814	0.0820	2.2109	0.7513	5.0130
981.	1460.	6862.	C.712	0.1818	0.0832	2.1865	0.7440	4.7000
1048.	1860.	7992.	C.761	0.1856	0.0869	2.1354	0.7341	4.2968
1099.	2212.	8954.	C.798	0.1890	0.0896	2.1097	0.7320	4.0479
1132.	2477.	9561.	C.822	0.1903	0.0918	2.0721	0.7213	3.8599
1160.	2718.	10167.	C.842	0.1927	0.0936	2.0577	0.7208	3.7406
1193.	3074.	10962.	C.866	0.1964	0.0974	2.0175	0.7135	3.5660
1234.	3529.	11883.	C.896	0.1990	0.1010	1.9705	0.7015	3.3672

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1561.	7164.	817.	999.	0.1832	0.0843	2.173	0.742	4.589		0
0.750	1766.	7736.	845.	1033.	0.1849	0.0861	2.146	0.736	4.381		0
0.775	1986.	8337.	873.	1067.	0.1866	0.0878	2.125	0.732	4.197		0
0.800	2234.	8986.	901.	1102.	0.1887	0.0898	2.102	0.729	4.022		0
0.825	2513.	9681.	929.	1136.	0.1912	0.0921	2.076	0.724	3.852		0
0.850	2836.	10420.	958.	1171.	0.1939	0.0950	2.040	0.717	3.674		0
0.875	3198.	11206.	986.	1205.	0.1967	0.0982	2.003	0.709	3.504		0

STATIC PROP PERFORMANCE

AL-1,2,3(SK-59808-12K) RUN NO 158 WLLS DOWN

BETA=16.0 AF= 99.0 DIA=15.625 NBL=4 TEMPC= 21.5 TEMPR= 528.59 SIGMA=0.9550

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
740.	732.	4314.	0.537	0.2006	0.0970	2.0688	0.7395	5.8934
802.	538.	5768.	0.582	0.2007	0.0976	2.0556	0.7348	5.4030
860.	1184.	5885.	0.624	0.2026	0.0999	2.0278	0.7284	4.9704
924.	1518.	6848.	0.670	0.2043	0.1033	1.9774	0.7132	4.5112
981.	1872.	7811.	0.712	0.2167	0.1065	1.9417	0.7045	4.1725
1053.	2429.	9215.	0.764	0.2117	0.1117	1.8950	0.6957	3.7937
1098.	2830.	10178.	0.797	0.2150	0.1148	1.8733	0.6932	3.5965
1131.	3226.	11016.	0.821	0.2193	0.1197	1.8321	0.6847	3.4148
1140.	3322.	11267.	0.827	0.2208	0.1204	1.8342	0.6878	3.3916

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1996.	8141.	817.	999.	0.2077	0.1074	1.933	0.703	4.079	0	0
0.750	2269.	8818.	846.	1034.	0.2102	0.1103	1.905	0.697	3.886	0	0
0.775	2562.	9531.	874.	1068.	0.2128	0.1129	1.885	0.694	3.721	0	0
0.800	2904.	10321.	902.	1103.	0.2162	0.1163	1.859	0.690	3.554	0	0
0.825	3283.	11169.	930.	1137.	0.2200	0.1199	1.835	0.687	3.402	0	0

STATIC PROP PERFORMANCE

XC-142A(SK-59868-12R) RUN NU 159 WALLS DOWN

BETA=18.0 AF= 99.0 DIA=15.625 NBL=4 TEMPC= 21.0 TEMPR= 527.69 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
738.	902.	4749.	C.536	0.2221	0.1205	1.8432	0.6931	5.2650
805.	1168.	5565.	C.585	C.2187	0.1202	1.8194	0.6790	4.7646
857.	1459.	6423.	0.622	0.2227	0.1244	1.7897	0.6740	4.4023
902.	1704.	7050.	C.655	0.2207	C.1247	1.7703	0.6636	4.1373
951.	2064.	7550.	C.691	0.2239	C.1288	1.7376	0.6561	3.8517
982.	2334.	8661.	C.713	C.2287	0.1323	1.7286	0.6597	3.7108
1026.	2794.	9603.	0.745	0.2323	C.1389	1.6728	0.6434	3.4370

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	MP
0.725	2501.	8979.	817.	598.	0.2295	0.1350	1.700	0.650	3.590		0

STATIC PROP PERFORMANCE

XC-142A(SK-59868-12R) RUN NO 167 10.15 DOWN

BETA=20.0 AF= 99.0 DIA=15.625 NBL=4 TEMPC= 21.0 IEPR= 527.69 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/HP
736.	1093.	5000.	0.535	0.2351	0.1472	1.5972	0.6180	4.5746
803.	1434.	5879.	0.583	0.2322	0.1487	1.5617	0.6025	4.0997
857.	1773.	6695.	0.622	0.2322	0.1512	1.5351	0.5903	3.7761
934.	2099.	7406.	0.657	0.2308	0.1525	1.5131	0.5801	3.5283
947.	2458.	8222.	0.688	0.2335	0.1554	1.5027	0.5794	3.3450
981.	2742.	8745.	0.712	0.2314	0.1559	1.4842	0.5698	3.1893
997.	2936.	9205.	0.724	0.2358	0.1591	1.4828	0.5746	3.1352

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR~	HP

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 161 WALLS DOWN

BETA= 4.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 16.0 TEMPR= 520.49 SIGMA=0.9740

**** RAW DATA POINTS ****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
764.	163.	1490.	0.543	0.0726	0.0225	3.2228	0.6929	9.1411
889.	264.	2033.	0.632	0.0732	0.0232	3.1592	0.6819	7.7008
1022.	407.	2628.	0.727	0.0716	0.0235	3.0453	0.6500	6.4570
1141.	571.	3183.	0.812	0.0695	0.0237	2.9352	0.6176	5.5744
1179.	640.	3429.	0.839	0.0702	0.0241	2.9151	0.6161	5.3578
1210.	696.	3593.	0.861	0.0698	0.0242	2.8826	0.6077	5.1624
1237.	753.	3758.	0.880	0.0698	0.0245	2.8489	0.6008	4.9907
1269.	828.	3963.	0.903	0.0700	0.0250	2.8029	0.5917	4.7862
1302.	910.	4186.	0.926	0.0685	0.0254	2.6978	0.5636	4.4901
1337.	1018.	4271.	0.951	0.0679	0.0262	2.5886	0.5384	4.1955
1370.	1127.	4333.	0.975	0.0657	0.0270	2.4307	0.4970	3.8447
1404.	1271.	4435.	0.999	0.0640	0.0283	2.2608	0.4563	3.4894
1428.	1376.	4435.	1.016	0.0618	0.0291	2.1240	0.4215	3.2231
1460.	1507.	4456.	1.039	0.0594	0.0298	1.9922	0.3876	2.9569
1494.	1648.	4435.	1.063	0.0565	0.0305	1.8554	0.3519	2.6911

**** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	403.	2612.	811.	1019.	0.0715	0.0235	3.046	0.650	6.476		0
0.750	449.	2782.	839.	1054.	0.0712	0.0236	3.011	0.641	6.189		0
0.775	499.	2956.	867.	1089.	0.0708	0.0238	2.979	0.633	5.925		0
0.800	551.	3133.	895.	1125.	0.0705	0.0239	2.949	0.625	5.682		0
0.825	607.	3312.	923.	1160.	0.0700	0.0240	2.920	0.617	5.456		0
0.850	668.	3503.	951.	1195.	0.0697	0.0241	2.891	0.609	5.242		0
0.875	739.	3725.	979.	1230.	0.0700	0.0245	2.861	0.604	5.040		0
0.900	817.	3916.	1007.	1265.	0.0696	0.0249	2.798	0.589	4.792		0
0.925	908.	4103.	1035.	1300.	0.0690	0.0255	2.710	0.568	4.516		0
0.950	1012.	4242.	1063.	1335.	0.0676	0.0262	2.584	0.536	4.193		0
0.975	1137.	4355.	1091.	1371.	0.0659	0.0272	2.421	0.496	3.828		0
1.000	1279.	4418.	1119.	1406.	0.0636	0.0284	2.241	0.451	3.454		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 162 WALLS DOWN

BETA= 6.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 15.0 TEMPR= 518.69 SIGMA=0.9780

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
764.	223.	1984.	C.544	0.0967	0.0308	3.1367	0.7782	8.8969
890.	356.	2638.	C.634	0.0947	0.0311	3.0434	0.7474	7.4101
1021.	544.	3435.	C.728	0.0937	0.0315	2.9751	0.7268	6.3143
1142.	774.	4233.	0.814	0.0923	0.0320	2.8822	0.6988	5.4690
1178.	863.	4560.	0.839	0.0934	0.0325	2.8724	0.7007	5.2839
1209.	937.	4765.	0.862	0.0927	0.0327	2.8372	0.6894	5.0854
1244.	1031.	5010.	0.886	0.0921	0.0330	2.7896	0.6755	4.8594
1266.	1084.	5215.	0.902	0.0925	0.0329	2.8106	0.6823	4.8109
1302.	1216.	5481.	C.928	0.0919	0.0340	2.7082	0.6553	4.5074
1336.	1345.	5706.	0.952	0.0909	0.0348	2.6155	0.6293	4.2424
1369.	1484.	5890.	0.976	0.0894	0.0356	2.5074	0.5982	3.9690
1398.	1628.	5971.	C.996	C.0869	0.0363	2.3956	0.5635	3.7133
1431.	1797.	6033.	1.020	0.0838	0.0378	2.2170	0.5121	3.3573
1463.	1971.	6094.	1.043	0.0810	0.0388	2.0874	0.4740	3.0918
1494.	2130.	6094.	1.065	0.0776	0.0394	1.9725	0.4386	2.8610

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	539.	3405.	810.	1017.	0.0935	0.0315	2.966	0.724	6.318		0
0.750	601.	3636.	838.	1053.	0.0933	0.0318	2.938	0.716	6.049		0
0.775	668.	3875.	866.	1098.	0.0932	0.0320	2.912	0.709	5.803		0
0.800	739.	4123.	893.	1123.	0.0930	0.0322	2.890	0.703	5.578		0
0.825	814.	4376.	921.	1158.	0.0928	0.0323	2.872	0.698	5.376		0
0.850	896.	4637.	949.	1193.	0.0927	0.0325	2.848	0.692	5.174		0
0.875	985.	4914.	977.	1228.	0.0927	0.0328	2.828	0.687	4.991		0
0.900	1083.	5174.	1005.	1263.	0.0922	0.0331	2.785	0.675	4.778		0
0.925	1199.	5444.	1033.	1298.	0.0919	0.0338	2.720	0.658	4.541		0
0.950	1332.	5693.	1061.	1333.	0.0911	0.0347	2.629	0.633	4.272		0
0.975	1480.	5869.	1089.	1368.	0.0892	0.0356	2.504	0.597	3.966		0
1.000	1648.	5987.	1117.	1403.	0.0864	0.0368	2.352	0.552	3.632		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 163 WALLS DOWN

BETA= 8.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 15.0 TEMPR= 518.69 SIGMA=0.9790

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
766.	309.	2472.	0.546	0.1198	0.0424	2.8279	0.7811	8.0000
894.	501.	3330.	0.637	0.1185	0.0432	2.7421	0.7532	6.6467
1019.	756.	4311.	0.726	0.1181	0.0440	2.6815	0.7353	5.7024
1147.	1093.	5475.	0.817	0.1183	0.0446	2.6514	0.7279	5.0091
1176.	1203.	5843.	0.838	0.1201	0.0456	2.6359	0.7291	4.8570
1180.	1217.	5904.	0.841	0.1206	0.0456	2.6417	0.7320	4.8513
1208.	1302.	6088.	0.861	0.1186	0.0455	2.6066	0.7165	4.6759
1242.	1438.	6476.	0.885	0.1194	0.0463	2.5812	0.7117	4.5035
1264.	1537.	6782.	0.901	0.1207	0.0469	2.5738	0.7136	4.4125
1305.	1729.	7252.	0.930	0.1211	0.0479	2.5259	0.7014	4.1943
1336.	1896.	7559.	0.952	0.1204	0.0490	2.4580	0.6807	3.9868
1369.	2090.	7886.	0.976	0.1197	0.0502	2.3837	0.6580	3.7732
1400.	2263.	8038.	0.998	0.1162	0.0508	2.2862	0.6219	3.5387
1404.	2296.	8069.	1.000	0.1164	0.0511	2.2770	0.6199	3.5144
1427.	2456.	8274.	1.017	0.1155	0.0521	2.2185	0.6018	3.3689
1460.	2635.	8335.	1.040	0.1112	0.0522	2.1312	0.5671	3.1632
1493.	2869.	8417.	1.064	0.1074	0.0531	2.0213	0.5286	2.9338

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	753.	4298.	810.	1017.	0.1181	0.0441	2.680	0.735	5.708		0
0.750	840.	4611.	838.	1053.	0.1184	0.0444	2.665	0.732	5.488		0
0.775	934.	4939.	866.	1088.	0.1187	0.0447	2.654	0.730	5.289		0
0.800	1014.	5282.	893.	1123.	0.1192	0.0450	2.647	0.729	5.109		0
0.825	1138.	5620.	921.	1158.	0.1192	0.0452	2.638	0.727	4.937		0
0.850	1255.	5981.	949.	1193.	0.1195	0.0456	2.623	0.724	4.765		0
0.875	1382.	6332.	977.	1228.	0.1194	0.0460	2.597	0.716	4.583		0
0.900	1528.	6734.	1005.	1263.	0.1200	0.0467	2.568	0.710	4.406		0
0.925	1696.	7161.	1033.	1298.	0.1209	0.0478	2.529	0.702	4.221		0
0.950	1881.	7550.	1061.	1333.	0.1208	0.0489	2.469	0.685	4.013		0
0.975	2078.	7838.	1089.	1368.	0.1191	0.0500	2.381	0.656	3.771		0
1.000	2295.	8085.	1117.	1403.	0.1167	0.0512	2.282	0.622	3.523		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 164 WALLS DOWN

BETA=10.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 14.5 TEMPR= 517.79 SIGMA=0.9810

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
765.	406.	2956.	0.546	0.1436	0.0559	2.5703	0.7774	7.2808
891.	657.	3996.	0.635	0.1431	0.0572	2.5008	0.7550	6.0822
1018.	1013.	5260.	0.726	0.1443	0.0592	2.4393	0.7395	5.1925
1143.	1465.	6666.	0.815	0.1451	0.0605	2.4000	0.7296	4.5502
1176.	1621.	7115.	0.839	0.1463	0.0614	2.3820	0.7271	4.3893
1208.	1769.	7543.	0.862	0.1470	0.0618	2.3770	0.7273	4.2640
1243.	1982.	8135.	0.887	0.1497	0.0636	2.3543	0.7270	4.1044
1266.	2111.	8440.	0.903	0.1498	0.0641	2.3358	0.7213	3.9981
1305.	2345.	8950.	0.931	0.1495	0.0650	2.2985	0.7091	3.8166
1339.	2624.	9562.	0.955	0.1517	0.0674	2.2517	0.6998	3.6441
1367.	2846.	9888.	0.975	0.1505	0.0687	2.1917	0.6785	3.4743
1404.	3125.	10296.	1.001	0.1485	0.0696	2.1347	0.6565	3.2947
1431.	3330.	10438.	1.021	0.1450	0.0700	2.0699	0.6289	3.1345
1464.	3598.	10561.	1.044	0.1401	0.0707	1.9830	0.5924	2.9352
1464.	3592.	10663.	1.044	0.1415	0.0705	2.0055	0.6020	2.9685
1495.	3848.	10805.	1.066	0.1375	0.0710	1.9372	0.5732	2.8080
1496.	3892.	11111.	1.067	0.1412	0.0716	1.9709	0.5910	2.8548

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	1007.	5233.	809.	1017.	0.1440	0.0591	2.438	0.738	5.198		0
0.750	1126.	5617.	837.	1052.	0.1444	0.0597	2.421	0.734	4.989		0
0.775	1253.	6017.	865.	1087.	0.1449	0.0602	2.407	0.731	4.800		0
0.800	1390.	6434.	893.	1122.	0.1454	0.0607	2.396	0.729	4.629		0
0.825	1536.	6873.	921.	1157.	0.1461	0.0612	2.388	0.728	4.473		0
0.850	1696.	7331.	949.	1192.	0.1468	0.0617	2.378	0.727	4.323		0
0.875	1883.	7862.	976.	1227.	0.1485	0.0628	2.364	0.727	4.175		0
0.900	2081.	8366.	1004.	1262.	0.1494	0.0638	2.341	0.722	4.020		0
0.925	2309.	8897.	1032.	1297.	0.1504	0.0652	2.306	0.714	3.853		0
0.950	2561.	9402.	1060.	1332.	0.1507	0.0668	2.257	0.699	3.671		0
0.975	2840.	9914.	1088.	1367.	0.1509	0.0685	2.202	0.682	3.490		0
1.000	3114.	10265.	1116.	1402.	0.1485	0.0696	2.133	0.656	3.296		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 165 WALLS DOWN

BETA=12.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 14.0 TEMPR= 516.89 SIGMA=0.9820

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
762.	516.	3381.	C.544	0.1656	0.0719	2.3041	0.7482	6.5523
891.	846.	4623.	C.636	0.1656	C.0737	2.2469	0.7296	5.4645
1018.	1308.	6110.	C.727	C.1677	0.0764	2.1945	0.7171	4.6713
1144.	1948.	8044.	C.817	0.1748	0.0802	2.1800	0.7273	4.1294
1175.	2151.	8554.	C.839	0.1762	0.0817	2.1563	0.7223	3.9768
1212.	2426.	9246.	C.865	0.1790	C.0840	2.1316	0.7197	3.8112
1240.	2633.	9756.	C.885	0.1804	C.0851	2.1203	0.7187	3.7053
1270.	2875.	10326.	C.907	0.1821	C.0865	2.1050	0.7167	3.5917
1307.	3232.	11059.	C.933	0.1841	C.0892	2.0638	0.7066	3.4217
1336.	3506.	11487.	C.954	0.1830	C.0906	2.0200	0.6896	3.2764
1368.	3830.	11772.	C.977	0.1789	0.0922	1.9404	0.6549	3.0736
1383.	3954.	12057.	C.987	0.1793	0.0921	1.9461	0.6575	3.0493

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	MP
0.725	1299.	6104.	808.	1016.	0.1683	0.0764	2.203	0.721	4.700		0
0.750	1463.	6595.	836.	1051.	C.1699	0.0777	2.185	0.719	4.507		0
0.775	1642.	7115.	864.	1086.	C.1717	0.0791	2.171	0.718	4.333		0
0.800	1835.	7664.	892.	1121.	0.1735	0.0803	2.160	0.718	4.177		0
0.825	2036.	8229.	920.	1156.	0.1752	0.0813	2.156	0.720	4.043		0
0.850	2263.	8848.	948.	1191.	C.1775	0.0826	2.149	0.722	3.910		0
0.875	2521.	9489.	976.	1226.	0.1796	0.0844	2.129	0.720	3.763		0
0.900	2807.	10164.	1003.	1261.	0.1818	0.0863	2.107	0.717	3.621		0
0.925	3117.	10833.	1031.	1296.	C.1835	0.0883	2.078	0.710	3.476		0
0.950	3454.	11388.	1059.	1331.	C.1828	0.0903	2.025	0.691	3.297		0
0.975	3795.	11831.	1087.	1366.	0.1803	0.0918	1.965	0.666	3.117		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 166 WALLS DOWN

BETA=14.0 AF=115.4 DIA=15.2CC NBL=4 TEMPC= 13.5 TEMPR= 515.99 SIGMA=0.9860

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
768.	675.	4036.	0.549	0.1946	0.0918	2.1191	0.7460	5.9793
887.	1066.	5456.	0.634	0.1972	0.0941	2.0950	0.7424	5.1182
977.	1462.	6633.	0.698	0.1976	0.0966	2.0455	0.7256	4.5369
1015.	1661.	7181.	0.725	0.1982	0.0979	2.0250	0.7195	4.3233
1100.	2223.	8661.	0.786	0.2036	0.1029	1.9777	0.7120	3.8961
1142.	2537.	9432.	0.816	0.2057	0.1050	1.9593	0.7091	3.7178
1175.	2818.	10101.	0.839	0.2081	0.1070	1.9436	0.7075	3.5845
1207.	3147.	10852.	0.862	0.2118	0.1103	1.9207	0.7054	3.4484
1240.	3485.	11521.	0.886	0.2131	0.1126	1.8917	0.6968	3.3059

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR~	HP
0.725	1674.	7222.	808.	1015.	0.1995	0.0987	2.021	0.720	4.315		0
0.750	1877.	7761.	835.	1050.	0.2003	0.1000	2.003	0.715	4.135		0
0.775	2111.	8366.	863.	1085.	0.2022	0.1019	1.983	0.712	3.962		0
0.800	2363.	9006.	891.	1120.	0.2043	0.1037	1.970	0.710	3.812		0
0.825	2651.	9707.	919.	1155.	0.2070	0.1061	1.951	0.708	3.662		0
0.850	2971.	10432.	947.	1190.	0.2096	0.1087	1.928	0.704	3.511		0
0.875	3321.	11195.	975.	1225.	0.2123	0.1114	1.905	0.700	3.371		0

STATIC PROP PERFORMANCE

XC-142A(SK55H68-19) RUN NO 167 WALLS DOWN

BETA=16.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 14.0 TEMPR= 516.89 SIGMA=0.9830

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
768.	815.	4435.	0.548	0.2138	0.1109	1.9286	0.7117	5.4417
893.	1336.	6124.	0.637	0.2184	0.1156	1.8890	0.7044	4.5838
974.	1795.	7426.	0.695	0.2226	0.1197	1.8595	0.7001	4.1370
1021.	2127.	8260.	0.729	0.2253	0.1232	1.8297	0.6931	3.8834
1076.	2574.	9359.	0.768	0.2299	0.1273	1.8054	0.6908	3.6360
1101.	2791.	9847.	0.786	0.2310	0.1289	1.7926	0.6875	3.5281
1145.	3234.	10783.	0.817	0.2339	0.1328	1.7618	0.6799	3.3343
1147.	3231.	10783.	0.819	0.2331	0.1319	1.7665	0.6806	3.3374

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP	I
0.725	2054.	8176.	808.	1016.	0.2254	0.1232	1.830	0.693	3.905		0	
0.750	2358.	8837.	836.	1051.	0.2276	0.1253	1.817	0.692	3.747		0	
0.775	2657.	9537.	864.	1086.	0.2301	0.1279	1.798	0.688	3.590		0	
0.800	2981.	10253.	892.	1121.	0.2321	0.1305	1.779	0.684	3.439		0	

STATIC PROPP PERFORMANCE

XC-142A(SK55868-18) RUN NU 168 WALLS DOWN

BETA=18.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 14.0 TEMPR= 516.89 SIGMA=0.9830

**** RAW DATA POINTS ****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
773.	1014.	4903.	0.552	0.2333	0.1353	1.7248	0.6649	4.8353
827.	1283.	5717.	0.590	0.2377	0.1398	1.7006	0.6616	4.4560
897.	1637.	6633.	0.640	0.2344	0.1398	1.6773	0.6481	4.0519
972.	2175.	7996.	0.694	0.2407	0.1460	1.6490	0.6456	3.6763
1017.	2540.	8769.	0.726	0.2411	0.1488	1.6203	0.6349	3.4524
1064.	3007.	9766.	0.750	0.2453	0.1538	1.5947	0.6303	3.2478

**** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP	ERROR-	HP
0.725	2543.	8779.	808.	1016.	0.2420	0.1496	1.618	0.635	3.453		0
0.750	2866.	9475.	836.	1051.	0.2441	0.1523	1.603	0.632	3.306		0

STATIC PROP PERFORMANCE

XC-142A(SK59868-18) RUN NO 169 WALLS DOWN

BETA=20.0 AF=115.4 DIA=15.200 NBL=4 TEMPC= 14.0 TEMPR= 516.89 SIGMA=0.9830

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
767.	1218.	5169.	0.548	0.2498	0.1663	1.5018	0.5990	4.2430
828.	1534.	5941.	0.591	0.2464	0.1665	1.4798	0.5862	3.8729
890.	1973.	6958.	0.635	0.2498	0.1725	1.4484	0.5777	3.5266
933.	2271.	7569.	0.666	0.2473	0.1723	1.4350	0.5694	3.3329
975.	2624.	8342.	0.696	0.2496	0.1745	1.4304	0.5702	3.1791
996.	2845.	8789.	0.711	0.2520	0.1774	1.4199	0.5688	3.0893

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *****

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	YH/HP	ERROR-	HP

STATIC PROP PERFORMANCE

XC-142A(SK50504-2-8) 401 70 1.77 ALLS 00MM

BETA= 4.0 AF=10.00 DIA=13.210 INL=4 TEMPC= 17.8 TEMPP= 523.73 SIGMA=0.9720

***** RAW DATA POINTS *****

PPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	RTH/HP
753.	150.	1592.	0.345	0.0766	0.0217	3.5310	0.7796	9.9500
792.	222.	2017.	0.633	0.0721	0.0219	3.2947	0.7059	8.0040
1019.	382.	2502.	0.722	0.0744	0.0223	3.2011	0.6827	6.8141
1146.	553.	3210.	0.813	0.0695	0.0226	3.0698	0.6458	5.8047
1173.	596.	3365.	0.832	0.0695	0.0228	3.0460	0.6410	5.6271
1208.	659.	3560.	0.857	0.0694	0.0230	3.0115	0.6330	5.4021
1235.	706.	3704.	0.876	0.0691	0.0231	2.9901	0.6270	5.2465
1264.	767.	3890.	0.896	0.0692	0.0234	2.9583	0.6212	5.0717
1300.	849.	4095.	0.922	0.0669	0.0238	2.8936	0.6061	4.8233
1339.	953.	4281.	0.950	0.0679	0.0245	2.7757	0.5772	4.4921
1366.	1052.	4553.	0.969	0.0663	0.0254	2.6084	0.5361	4.1378
1394.	1150.	4497.	0.989	0.0658	0.0264	2.4939	0.5105	3.8767
1434.	1316.	4569.	1.017	0.0632	0.0275	2.2975	0.4609	3.4719
1461.	1421.	4579.	1.036	0.0610	0.0281	2.1726	0.4282	3.2224
1493.	1574.	4610.	1.059	0.0588	0.0291	2.0179	0.3905	2.9288

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	387.	2602.	814.	1022.	0.0708	0.0223	3.174	0.674	6.727
0.750	431.	2770.	842.	1058.	0.0704	0.0225	3.135	0.664	6.423
0.775	479.	2944.	870.	1092.	0.0701	0.0226	3.101	0.655	6.150
0.800	530.	3125.	898.	1128.	0.0698	0.0227	3.072	0.648	5.902
0.825	583.	3316.	926.	1163.	0.0697	0.0228	3.053	0.643	5.688
0.850	641.	3502.	954.	1199.	0.0693	0.0230	3.022	0.634	5.459
0.875	706.	3707.	982.	1234.	0.0692	0.0232	2.983	0.628	5.250
0.900	774.	3925.	1010.	1269.	0.0693	0.0233	2.959	0.624	5.070
0.925	858.	4159.	1038.	1304.	0.0687	0.0239	2.883	0.603	4.790
0.950	962.	4277.	1056.	1342.	0.0678	0.0247	2.748	0.571	4.445
0.975	1084.	4415.	1094.	1375.	0.0664	0.0257	2.583	0.551	4.071
1.000	1219.	4515.	1122.	1410.	0.0646	0.0268	2.411	0.489	3.705

STATIC PROP PERFORMANCE

XC-142A(SK-505 -12-1) 304 NO 171 WALLS DOWN

RETA= 5.0 AF=105.0 DIA=15.200 NPL=4 TEMPC= 17.8 TEMPR= 523.73 SIGMA=0.9740

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	KCP	RCT/CP	RFM	RTH/HP
772.	223.	1972.	0.567	0.0941	0.0209	3.1504	0.7712	0.8430
895.	350.	2629.	0.635	0.0933	0.0301	3.1024	0.7563	7.5114
1015.	516.	3343.	0.720	0.0922	0.0303	3.0421	0.7373	6.4884
1148.	750.	4211.	0.814	0.0909	0.0305	2.9745	0.7155	5.6147
1278.	815.	4437.	0.835	0.0909	0.0307	2.9595	0.7122	5.4442
1206.	878.	4683.	0.855	0.0916	0.0308	2.9684	0.7168	5.3337
1244.	983.	4965.	0.882	0.0911	0.0315	2.8966	0.6979	5.0458
1264.	1037.	5125.	0.896	0.0914	0.0316	2.8884	0.6968	4.9518
1307.	1170.	5494.	0.927	0.0915	0.0323	2.8322	0.6835	4.6957
1337.	1289.	5731.	0.948	0.0912	0.0332	2.7432	0.6610	4.4461
1369.	1427.	5928.	0.971	0.0899	0.0343	2.6235	0.6278	4.1528
1404.	1578.	6059.	0.996	0.0874	0.0351	2.4877	0.5869	3.8397
1429.	1694.	6183.	1.013	0.0862	0.0358	2.4052	0.5636	3.6499
1463.	1902.	6265.	1.041	0.0827	0.0370	2.2314	0.5120	3.2939
1495.	2065.	6367.	1.060	0.0810	0.0381	2.1272	0.4831	3.0833

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	526.	3383.	814.	1022.	0.0920	0.0304	3.032	0.734	6.426
0.750	585.	3511.	842.	1058.	0.0918	0.0305	3.013	0.728	6.173
0.775	648.	3648.	870.	1093.	0.0916	0.0306	2.996	0.724	5.941
0.800	714.	4092.	899.	1128.	0.0914	0.0307	2.983	0.720	5.729
0.825	786.	4340.	925.	1163.	0.0912	0.0308	2.966	0.715	5.524
0.850	864.	4602.	954.	1190.	0.0911	0.0309	2.946	0.710	5.327
0.875	953.	4890.	982.	1234.	0.0913	0.0313	2.922	0.705	5.132
0.900	1050.	5186.	1010.	1269.	0.0916	0.0317	2.892	0.698	4.938
0.925	1157.	5462.	1038.	1304.	0.0913	0.0324	2.817	0.679	4.680
0.950	1299.	5739.	1066.	1340.	0.0909	0.0332	2.730	0.647	4.416
0.975	1449.	5948.	1094.	1375.	0.0895	0.0343	2.605	0.522	4.106
1.000	1607.	6097.	1122.	1410.	0.0872	0.0353	2.469	0.582	3.793

STATIC PROP PERFORMANCE

XC-142 (SK59857-100) RUI NO 172 WALLS DOWN

BETA= 8.0 AF=105.0 DIA=15.250 RML=4 TEMPC= 17.8 TEMPI= 523.73 SIGMA=C.9740

***** SA. DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	KFM	KTI/HP
765.	290.	2393.	0.543	0.1160	0.0398	2.0169	0.7927	8.2517
894.	472.	3266.	0.634	0.1162	0.0407	2.8547	0.7766	6.9195
1020.	717.	4211.	0.723	0.1151	0.0416	2.7645	0.7484	5.8731
1147.	1041.	5361.	0.813	0.1159	0.0425	2.7259	0.7405	5.1499
1177.	1124.	5628.	0.835	0.1155	0.0425	2.7196	0.7377	5.0071
1205.	1212.	5916.	0.855	0.1159	0.0427	2.7143	0.7373	4.8812
1239.	1243.	6285.	0.878	0.1166	0.0435	2.5796	0.7302	4.6903
1261.	1424.	6552.	0.894	0.1172	0.0438	2.6775	0.7314	4.6011
1306.	1638.	7107.	0.926	0.1185	0.0453	2.5149	0.7183	4.3388
1335.	1795.	7415.	0.947	0.1181	0.0464	2.5468	0.6986	4.1309
1369.	1957.	7661.	0.971	0.1162	0.0472	2.4605	0.6095	3.8948
1395.	2131.	7857.	0.990	0.1147	0.0483	2.3752	0.6418	3.6870
1437.	2330.	8113.	1.019	0.1117	0.0496	2.2511	0.6004	3.3946
1465.	2591.	8370.	1.039	0.1109	0.0508	2.1839	0.5804	3.2304
1497.	2793.	8524.	1.062	0.1082	0.0513	2.1083	0.5533	3.0519

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	724.	4246.	814.	1022.	0.1155	0.0417	2.764	0.751	5.868
0.750	806.	4545.	842.	1058.	0.1156	0.0420	2.752	0.747	5.639
0.775	894.	4855.	870.	1093.	0.1156	0.0422	2.739	0.743	5.430
0.800	988.	5175.	898.	1128.	0.1156	0.0424	2.728	0.740	5.241
0.825	1089.	5506.	926.	1163.	0.1157	0.0426	2.715	0.737	5.051
0.850	1198.	5863.	954.	1199.	0.1160	0.0429	2.707	0.736	4.894
0.875	1319.	6233.	982.	1234.	0.1164	0.0433	2.692	0.733	4.727
0.900	1467.	6678.	1010.	1269.	0.1179	0.0442	2.667	0.731	4.553
0.925	1630.	7064.	1038.	1304.	0.1181	0.0452	2.609	0.716	4.335
0.950	1810.	7430.	1066.	1340.	0.1177	0.0454	2.538	0.695	4.105
0.975	2004.	7698.	1094.	1375.	0.1158	0.0475	2.438	0.662	3.842
1.000	2221.	7936.	1122.	1410.	0.1138	0.0488	2.331	0.628	3.563

STATIC PROP PERFORMANCE

XC-142 (SK59863-1P) RUN NO 173 WALLS DOWN

REF=10.0 AF=10.0 DIA=15.250 NREL=4 TEMPC= 17.8 TEMPR= 523.73 SIGMA=0.9740

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCF	RCP	RCT/CP	RFM	RIH/HP
766.	371.	2835.	0.543	0.1374	0.0509	2.7012	0.7990	7.6415
892.	624.	3851.	0.633	0.1376	0.0524	2.6245	0.7770	6.3758
1015.	912.	4991.	0.720	0.1378	0.0537	2.5633	0.7592	5.4726
1139.	1345.	6491.	0.808	0.1423	0.0561	2.5366	0.7636	4.8260
1180.	1500.	6943.	0.837	0.1418	0.0563	2.5205	0.7574	4.6287
1210.	1657.	7312.	0.858	0.1420	0.0576	2.4640	0.7410	4.4128
1242.	1821.	7805.	0.881	0.1439	0.0586	2.4566	0.7436	4.2861
1266.	1955.	8185.	0.898	0.1452	0.0597	2.4335	0.7401	4.1654
1302.	2178.	8658.	0.923	0.1452	0.0608	2.3884	0.7264	3.9752
1339.	2452.	9140.	0.949	0.1452	0.0631	2.3016	0.6998	3.7276
1367.	2643.	9407.	0.959	0.1432	0.0638	2.2453	0.6779	3.5592
1407.	2956.	9818.	0.998	0.1410	0.0654	2.1551	0.6459	3.3191
1434.	3164.	10085.	1.017	0.1395	0.0661	2.1093	0.6286	3.1874
1460.	3376.	10291.	1.035	0.1373	0.0668	2.0538	0.6073	3.0483
1495.	3702.	10681.	1.060	0.1359	0.0683	1.9905	0.5856	2.8852

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	938.	5107.	814.	1022.	0.1389	0.0541	2.568	0.764	5.444
0.750	1052.	5489.	842.	1058.	0.1396	0.0548	2.547	0.759	5.220
0.775	1174.	5888.	870.	1093.	0.1402	0.0554	2.530	0.756	5.016
0.800	1305.	6304.	899.	1128.	0.1409	0.0560	2.515	0.753	4.831
0.825	1445.	6741.	926.	1163.	0.1416	0.0565	2.505	0.752	4.667
0.850	1601.	7211.	954.	1199.	0.1427	0.0573	2.491	0.751	4.503
0.875	1777.	7673.	982.	1234.	0.1433	0.0583	2.459	0.743	4.318
0.900	1981.	8224.	1010.	1269.	0.1452	0.0597	2.431	0.739	4.151
0.925	2207.	8702.	1038.	1304.	0.1455	0.0613	2.374	0.722	3.944
0.950	2451.	9124.	1066.	1340.	0.1446	0.0628	2.301	0.698	3.723
0.975	2712.	9510.	1094.	1375.	0.1431	0.0643	2.225	0.672	3.507
1.000	2972.	9835.	1122.	1410.	0.1407	0.0653	2.153	0.644	3.309

STATIC PROP PERFORMANCE

XC-1421USK5955-1441 RUN NO 174 WALLS DOWN

RETA=12.0 AF=105.7 DIA=15.220 YPL=4 TEMPC= 19.0 TEMPR= 525.89 SIGMA=5.9700

***** RAW DATA PLOTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	PFM	RTH/HP
767.	449.	314.	0.543	0.1615	0.0566	2.4225	0.7768	6.8443
893.	795.	4378.	0.633	0.1625	0.0683	2.3784	0.7651	5.7585
1016.	1273.	5777.	0.719	0.1653	0.0707	2.3384	0.7587	4.9875
1143.	1800.	7742.	0.809	0.1679	0.0743	2.2599	0.7389	4.2844
1182.	2038.	8351.	0.836	0.1700	0.0761	2.2351	0.7354	4.0976
1208.	2220.	8825.	0.855	0.1720	0.0776	2.2160	0.7334	3.9752
1240.	2442.	9463.	0.878	0.1751	0.0802	2.1822	0.7286	3.8135
1266.	2678.	9896.	0.896	0.1756	0.0813	2.1593	0.7221	3.6960
1302.	2999.	10567.	0.921	0.1771	0.0837	2.1150	0.7103	3.5202
1335.	3293.	11011.	0.945	0.1754	0.0851	2.0615	0.6890	3.3438
1375.	3691.	11364.	0.974	0.1737	0.0873	1.9901	0.6620	3.1341
1405.	3943.	11939.	0.994	0.1720	0.0881	1.9533	0.6464	3.0126

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1241.	6293.	815.	1024.	0.1651	0.0711	2.321	0.753	4.910
0.750	1399.	6564.	843.	1060.	0.1562	0.0724	2.296	0.747	4.695
0.775	1568.	7056.	872.	1095.	0.1673	0.0736	2.274	0.742	4.499
0.800	1752.	7572.	900.	1130.	0.1685	0.0747	2.255	0.739	4.322
0.825	1951.	8118.	928.	1166.	0.1699	0.0759	2.239	0.736	4.162
0.850	2176.	8698.	956.	1201.	0.1715	0.0774	2.215	0.732	3.997
0.875	2441.	9357.	984.	1236.	0.1741	0.0796	2.188	0.728	3.834
0.900	2732.	10024.	1012.	1272.	0.1763	0.0819	2.153	0.721	3.669
0.925	3038.	10697.	1040.	1307.	0.1764	0.0839	2.104	0.705	3.488
0.950	3359.	11423.	1068.	1342.	0.1755	0.0856	2.051	0.686	3.311
0.975	3697.	11998.	1096.	1378.	0.1738	0.0871	1.995	0.664	3.138

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

XC-142A (SK50450-1PR) 2000 NO. 175 TALLS (DOWN)

BETA=14.0 AF=105.0 DIA=15.250 NUL=4 TEMPC= 19.0 TEMPR= 525.89 SIGMA=0.9700

***** DATA POINTS *****

RPM	HP	TH	FMACH	WCT	RCP	WCT/CP	PFM	KTH/HP
758.	623.	5477.	0.544	0.1869	0.0848	2.2055	0.7609	6.2231
894.	1003.	5437.	0.633	0.1853	0.0855	2.1541	0.7420	5.2213
973.	1332.	6310.	0.689	0.1895	0.0891	2.1271	0.7390	4.7372
1017.	1568.	6969.	0.720	0.1916	0.0919	2.0859	0.7286	4.4445
1071.	1877.	7830.	0.758	0.1943	0.0942	2.0633	0.7257	4.1747
1099.	2073.	8269.	0.778	0.1947	0.0962	2.0230	0.7123	3.9889
1141.	2317.	8887.	0.807	0.1941	0.0961	2.0196	0.7101	3.8356
1175.	2625.	9650.	0.832	0.1968	0.0997	1.9933	0.7092	3.6762
1208.	2960.	10454.	0.855	0.2037	0.1035	1.9688	0.7091	3.5318
1242.	3250.	11114.	0.879	0.2049	0.1055	1.9421	0.7015	3.3884
1269.	3525.	11630.	0.898	0.2054	0.1063	1.9321	0.6987	3.2993
1286.	3745.	11959.	0.910	0.2056	0.1085	1.8951	0.6858	3.1933

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1610.	7096.	815.	1024.	0.1923	0.0923	2.084	0.729	4.408
0.750	1911.	7533.	843.	1060.	0.1933	0.0937	2.062	0.723	4.215
0.775	2032.	8194.	872.	1095.	0.1943	0.0953	2.038	0.717	4.033
0.800	2270.	8784.	900.	1130.	0.1955	0.0968	2.019	0.712	3.870
0.825	2546.	9452.	928.	1166.	0.1978	0.0990	1.997	0.709	3.712
0.850	2865.	10209.	956.	1201.	0.2013	0.1019	1.975	0.707	3.563
0.875	3224.	11009.	984.	1236.	0.2048	0.1051	1.949	0.704	3.415
0.900	3580.	11693.	1012.	1272.	0.2056	0.1073	1.917	0.694	3.266

STATIC PROP PERFORMANCE

XC-1421(SK50454-1ER) RUN W/ 176 WALLS DOWN

BETA=16.0 AF=100.0 DIA=15.200 NOL=4 TEMPC= 18.0 TEMPR= 524.09 SIGMA=0.9733

***** RAW DATA PLOTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
765.	736.	4231.	0.543	0.2051	0.1009	2.7321	0.7343	5.7486
894.	1231.	5916.	0.634	0.2105	0.1062	1.9827	0.7259	4.8058
974.	1656.	7106.	0.690	0.2130	0.1104	1.9287	0.7104	4.2911
1016.	1914.	7764.	0.720	0.2139	0.1125	1.9019	0.7019	4.0564
1071.	2347.	8673.	0.759	0.2200	0.1177	1.8685	0.6993	3.7806
1102.	2583.	9266.	0.781	0.2193	0.1189	1.8440	0.6891	3.6260
1149.	3064.	10455.	0.815	0.2252	0.1245	1.8093	0.6852	3.4122
1177.	3315.	10969.	0.834	0.2256	0.1253	1.8005	0.6824	3.3149

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1965.	7911.	814.	1023.	0.2151	0.1132	1.900	0.703	4.025
0.750	2232.	8560.	842.	1058.	0.2175	0.1162	1.872	0.697	3.835
0.775	2523.	9250.	870.	1093.	0.2201	0.1190	1.849	0.692	3.666
0.800	2843.	9969.	898.	1128.	0.2226	0.1219	1.826	0.688	3.507
0.825	3190.	10723.	926.	1164.	0.2252	0.1247	1.805	0.684	3.362

STATIC PROP PERFORMANCE

YC-14211SK-9550-(1R) RUM 10 177 CALLS DOWN

PETA=14.0 AF=10.0 PIA=15.2.0 TPL=4 TEMPL= 18.0 TEMPR= 524.09 SIGMA=0.9730

***** PAW DATA POINTS *****

RPM	HP	TH	FMACH	KCF	RCP	RCT/CP	RFM	RTH/HP
764.	899.	4083.	0.562	0.2402	0.1242	1.8366	0.7000	5.2091
827.	1172.	5225.	0.536	0.2497	0.1277	1.7991	0.6881	4.7142
893.	1493.	6450.	0.631	0.2316	0.1305	1.7743	0.6814	4.3202
976.	2071.	7984.	0.592	0.2361	0.1373	1.7198	0.6668	3.8184
1019.	2418.	8647.	0.722	0.2368	0.1438	1.6816	0.6530	3.5761
1067.	2776.	9407.	0.751	0.2361	0.1436	1.6576	0.6454	3.3887
1091.	3099.	9982.	0.773	0.2385	0.1471	1.6217	0.6320	3.2210

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	FIPS	KPM	CT	CP	CT/CP	FM	TH/HP
0.725	2449.	8716.	814.	1023.	0.2370	0.1411	1.687	0.652	3.559
0.740	2768.	9363.	842.	1058.	0.2379	0.1440	1.651	0.643	3.383

NOT REPRODUCIBLE

STATIC PROP. PERFORMANCE

XC-147A (SK 3050-100) 100 10.172 WALLS DOWN

HEIGHT=0.0 AF=105.0 DIA=15.25 INLET=4 TEMPC=18.0 TEMPR=524.09 SIGMA=0.9730

***** RAW DATA POINTS *****

RPM	HP	TH	TPMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
770.	1416.	673.	0.540	0.2433	0.1506	1.6152	0.6358	4.5457
827.	1424.	674.	0.580	0.2442	0.1551	1.5743	0.6209	4.1250
893.	1433.	679.	0.633	0.2425	0.1586	1.5285	0.6006	3.7092
934.	2148.	747.	0.662	0.2437	0.1625	1.5003	0.5911	3.4809
972.	2402.	801.	0.689	0.2411	0.1616	1.4923	0.5848	3.3268
1017.	2827.	867.	0.721	0.2440	0.1656	1.4730	0.5806	3.1387
1029.	2953.	909.	0.729	0.2444	0.1670	1.4632	0.5772	3.0813
1037.	2999.	918.	0.735	0.2428	0.1657	1.4650	0.5760	3.0614

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TPM	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2876.	6752.	814.	1023.	0.2434	0.1657	1.469	0.578	3.112

NOT REPRODUCIBLE

STATIC PROGRAM ANALYSIS

MSD SYSTEMS, INC. 7400 N. 17TH AVE. CHICAGO, IL 60643

$\text{MEGA} = 5.0$ $M = 105.6$ $DIA = 15.47$ $NIL = 4$ $LWPC = 20.5$ $F_{LWR} = 528.59$ $SIGMA = 0.9590$

gPM	HP	TM	TRACH	RCI	QCP	RCI/CP	RFM	RTH/HP
777.	45.	246.	0.547	0.1033	0.0343	3.0065	0.7709	8.4070
827.	313.	241.	0.582	0.1026	0.0346	2.9685	0.7587	7.7987
887.	445.	245.	0.524	0.1029	0.0353	2.9178	0.7468	7.1472
930.	426.	329.	0.559	0.1050	0.0361	2.9036	0.7512	6.5452
983.	534.	354.5	0.692	0.1055	0.0364	2.8959	0.7505	6.4007
1021.	631.	363.8	0.719	0.1058	0.0370	2.8583	0.7419	6.0824
1055.	712.	4141.	0.743	0.1067	0.0378	2.8268	0.7369	5.8160
1104.	826.	4589.	0.777	0.1082	0.0383	2.8230	0.7410	5.5557
1145.	928.	4944.	0.806	0.1084	0.0386	2.8076	0.7376	5.3276
1164.	971.	5090.	0.819	0.1080	0.0384	2.8034	0.7364	5.2420
1201.	1092.	5228.	0.846	0.1101	0.0374	2.7983	0.7411	5.0623
1233.	1204.	5883.	0.868	0.1112	0.0401	2.7729	0.7379	4.8862

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	652.	3922.	817.	1020.	0.1063	0.0373	2.851	0.742	6.015
0.750	734.	4232.	846.	1065.	0.1072	0.0379	2.829	0.739	5.770
0.775	817.	4542.	874.	1101.	0.1077	0.0382	2.816	0.738	5.559
0.800	905.	4803.	922.	1136.	0.1082	0.0385	2.811	0.738	5.375
0.825	1002.	5208.	930.	1172.	0.1090	0.0389	2.803	0.739	5.198
0.850	1114.	5584.	959.	1207.	0.1102	0.0395	2.788	0.738	5.017

STATIC PROP PERFORMANCE

HSC CONSTRUCTION (0.03 BLADE, 34 (HUB) RUN 193 WALLS DOWN

BETA= 7.9 AF=103.0 CIA=42.100 NPL=4 TEMPC= 19.8 TEMPR= 527.33 SIGMA=0.9620

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	KFM	RIH/HP
774.	335.	2600.	0.043	0.1234	0.0444	2.7791	0.7792	7.7612
834.	418.	2974.	0.088	0.1229	0.0450	2.7311	0.7640	7.1148
887.	513.	3411.	0.015	0.1246	0.0459	2.7145	0.7646	6.6491
954.	636.	3994.	0.072	0.1261	0.0472	2.6733	0.7576	6.0884
978.	716.	4264.	0.089	0.1281	0.0478	2.6807	0.7657	5.9553
1022.	824.	4638.	0.720	0.1276	0.0482	2.6476	0.7548	5.6286
1057.	936.	5090.	0.745	0.1311	0.0495	2.6487	0.7653	5.4444
1094.	1063.	5554.	0.774	0.1324	0.0501	2.6404	0.7667	5.2248
1142.	1247.	6011.	0.803	0.1325	0.0523	2.5337	0.7359	4.8204
1170.	1311.	6344.	0.325	0.1332	0.0511	2.6058	0.7589	4.8391
1201.	1447.	6760.	0.847	0.1347	0.0522	2.5824	0.7563	4.6717
1226.	1553.	7134.	0.364	0.1364	0.0526	2.5921	0.7640	4.5937

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	KPM	CT	CP	CT/CP	FM	TH/HP
0.725	344.	4767.	816.	1029.	0.1295	0.0484	2.674	0.768	5.649
0.750	959.	5150.	845.	1064.	0.1307	0.0497	2.631	0.759	5.371
0.775	1078.	5550.	873.	1099.	0.1319	0.0506	2.605	0.755	5.150
0.800	1201.	5961.	901.	1135.	0.1330	0.0513	2.592	0.754	4.962
0.825	1330.	6366.	929.	1170.	0.1336	0.0518	2.578	0.752	4.785
0.850	1468.	6837.	957.	1206.	0.1351	0.0523	2.585	0.758	4.657

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

HSD CONSTITUTION (S903 BLADES 34 1/2 HUB) RUN NO 192 WALLS DOWN

BETA=10.0 AF=203.0 CIA=15.150 NPL=4 TEMPC= 17.2 TEMPR= 522.65 SIGMA=0.9730

***** RAW DATA PLOTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
772.	425.	3063.	0.547	0.1477	0.0577	2.5608	0.7854	7.2071
829.	537.	3557.	0.587	0.1487	0.0589	2.5273	0.7778	6.6238
885.	662.	4050.	0.627	0.1486	0.0596	2.4920	0.7666	6.1178
948.	845.	4749.	0.671	0.1519	0.0619	2.4522	0.7626	5.6201
977.	935.	5099.	0.692	0.1535	0.0626	2.4523	0.7668	5.4535
1026.	1137.	5695.	0.726	0.1555	0.0640	2.4294	0.7644	5.1445
1057.	1227.	6086.	0.748	0.1566	0.0649	2.4130	0.7619	4.9601
1099.	1418.	6703.	0.778	0.1595	0.0667	2.3911	0.7620	4.7271
1141.	1617.	7278.	0.808	0.1607	0.0680	2.3637	0.7560	4.5009
1165.	1743.	7689.	0.826	0.1625	0.0687	2.3674	0.7616	4.4114
1197.	1940.	8224.	0.847	0.1650	0.0706	2.3355	0.7569	4.2392
1222.	2081.	8594.	0.865	0.1654	0.0712	2.3227	0.7538	4.1297

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1102.	5672.	813.	1024.	0.1555	0.0641	2.426	0.763	5.148
0.750	1240.	6130.	841.	1059.	0.1570	0.0652	2.410	0.762	4.942
0.775	1394.	6617.	869.	1095.	0.1587	0.0664	2.392	0.760	4.747
0.800	1561.	7130.	897.	1130.	0.1605	0.0676	2.376	0.760	4.568
0.825	1748.	7682.	925.	1165.	0.1626	0.0690	2.357	0.758	4.394
0.850	1952.	8251.	953.	1201.	0.1645	0.0704	2.336	0.756	4.227

STATIC PROP PERFORMANCE

HSD CONFIGURATION (200) BLADE 24 (5 HUB) RUM NO 101 WALLS DOWN

BETA=12.1 AFE=0.3.3 DIA=15.100 R/L=4 LEMPC= 17.5 LMPN= 523.19 SIGMA=C.9720

***** RAW DATA POINTS *****

RPM	HP	TH	TSACH	RCT	RCF	RCY/CP	RFM	RTH/HP
755.	223.	6457.	0.564	0.1698	0.0729	2.3273	0.7652	6.6099
822.	471.	6.75.	0.582	0.1733	0.0754	2.2976	0.7633	6.0730
892.	888.	4857.	0.631	0.1754	0.0781	2.2455	0.7506	5.4596
945.	1274.	5237.	0.669	0.1778	0.0792	2.2443	0.7551	5.1546
975.	1495.	5948.	0.690	0.1798	0.0805	2.2336	0.7558	4.9774
1018.	1378.	5202.	0.720	0.1903	0.0816	2.2198	0.7491	4.7184
1053.	1574.	7399.	0.745	0.1835	0.0842	2.1800	0.7452	4.4981
1098.	1852.	7882.	0.777	0.1879	0.0874	2.1508	0.7440	4.2559
1144.	2157.	8757.	0.810	0.1925	0.0900	2.1401	0.7493	4.0644
1165.	2355.	9499.	0.824	0.1948	0.0930	2.1945	0.7377	3.9062
1197.	2612.	9617.	0.847	0.1969	0.0953	2.0659	0.7315	3.7498

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1420.	6522.	813.	1025.	0.1814	0.0825	2.200	0.748	4.565
0.750	1507.	7191.	841.	1060.	0.1840	0.0843	2.182	0.747	4.474
0.775	1827.	7812.	869.	1095.	0.1872	0.0858	2.155	0.744	4.276
0.800	2075.	8507.	897.	1131.	0.1912	0.0897	2.132	0.744	4.098
0.825	2351.	9195.	925.	1166.	0.1944	0.0926	2.099	0.739	3.912

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

USD CALCULATION (5003 BLAD, 34.7 HUB) RUN TO 192 HALLS DOWN

BETA=14.0 AF=12.0 CIA=15.150 WUL=4 TEMPC= 13.5 TEMPR= 524.09 SIGMA=0.9680

***** RAW DATA SET IS *****

RPM	HP	TH	TMACH	RCT	RCP	CT/CP	RFM	RTH/HP
762.	748.	4132.	0.543	0.2013	0.1031	1.9526	0.6992	5.5241
836.	993.	4969.	0.591	0.2043	0.1067	1.9158	0.6911	4.9790
897.	1215.	5178.	0.627	0.2038	0.1090	1.8696	0.6735	4.5796
945.	1501.	5487.	0.668	0.2089	0.1111	1.8797	0.6854	4.3218
984.	1741.	7066.	0.805	0.2097	0.1141	1.9381	0.6717	4.0586
1025.	2030.	7830.	0.724	0.2142	0.1177	1.8197	0.6720	3.8571
1055.	2268.	8491.	0.745	0.2192	0.1206	1.8179	0.6793	3.7438
1097.	2506.	9325.	0.775	0.2230	0.1234	1.8078	0.6813	3.5805
1145.	3009.	10371.	0.809	0.2273	0.1289	1.7636	0.6710	3.3466
1167.	3347.	10929.	0.824	0.2306	0.1315	1.7539	0.6721	3.2653

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

VACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2035.	7885.	615.	1026.	0.2152	0.1176	1.830	0.677	3.874
0.750	2311.	8595.	843.	1062.	0.2191	0.1206	1.817	0.579	3.719
0.775	2624.	9342.	871.	1097.	0.2231	0.1241	1.798	0.678	3.561
0.800	2970.	10119.	899.	1132.	0.2268	0.1277	1.776	0.675	3.407

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

MSD CONSTELLATION (6903A-01 34E60 HUB) RUN 213 WALLS DOWN

BETA= 6.0 AF= 99.0 DIA=15.160 NBL=4 TEMPC= 8.5 TEMPR= 506.99 SIGMA=0.9950

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
803.	364.	2683.	0.577	0.1196	0.0439	2.7242	0.7517	7.3709
851.	454.	3075.	0.612	0.1220	0.0460	2.6529	0.7395	6.7731
899.	541.	3457.	0.646	0.1229	0.0465	2.6440	0.7398	6.3900
947.	629.	3849.	0.681	0.1233	0.0462	2.6672	0.7475	6.1192
1001.	761.	4362.	0.720	0.1251	0.0474	2.6408	0.7454	5.7319
1050.	891.	4804.	0.755	0.1252	0.0481	2.6056	0.7358	5.3917
1101.	1055.	5427.	0.791	0.1287	0.0494	2.6067	0.7462	5.1441
1124.	1107.	5668.	0.808	0.1289	0.0487	2.6488	0.7590	5.1201
1138.	1142.	5729.	0.818	0.1271	0.0484	2.6276	0.7476	5.0166
1147.	1177.	5829.	0.825	0.1273	0.0487	2.6145	0.7445	4.9524
1152.	1200.	5889.	0.828	0.1275	0.0490	2.6020	0.7415	4.9075
1154.	1215.	5930.	0.830	0.1280	0.0494	2.5923	0.7400	4.8807
1170.	1267.	6211.	0.841	0.1304	0.0494	2.6398	0.7607	4.9021
1185.	1319.	6392.	0.852	0.1308	0.0495	2.6431	0.7629	4.8461
1199.	1423.	6673.	0.862	0.1334	0.0515	2.5878	0.7543	4.6894
1251.	1622.	7316.	0.899	0.1343	0.0517	2.5971	0.7596	4.5105

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	780.	1414.	801.	1009.	0.1247	0.0475	2.6226	0.740	5.657
0.750	873.	1767.	828.	1043.	0.1259	0.0480	2.622	0.742	5.461
0.775	975.	2138.	856.	1078.	0.1270	0.0486	2.614	0.744	5.269
0.800	1078.	2508.	883.	1113.	0.1278	0.0488	2.618	0.747	5.112
0.825	1183.	2815.	911.	1148.	0.1273	0.0489	2.606	0.742	4.934
0.850	1229.	3104.	939.	1182.	0.1314	0.0502	2.619	0.758	4.812
0.875	1478.	3699.	966.	1217.	0.1338	0.0512	2.615	0.763	4.667

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-01 34E60 HUB)RUN 212 WALLS DOWN

BETA= 8.0 AF= 99.0 DIA=15.163 NBL=4 TEMPC= 7.5 TEMPR= 505.19 SIGMA=1.0000

***** PAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
805.	464.	3100.	0.580	0.1375	0.0555	2.4754	0.7324	6.6810
850.	545.	3470.	0.612	0.1380	0.0554	2.4909	0.7385	6.3670
903.	671.	3945.	0.650	0.1390	0.0569	2.4435	0.7271	5.8793
943.	786.	4400.	0.683	0.1407	0.0576	2.4425	0.7311	5.5980
953.	808.	4530.	0.686	0.1433	0.0583	2.4591	0.7430	5.6064
998.	941.	5040.	0.719	0.1454	0.0591	2.4602	0.7487	5.3560
1034.	962.	5080.	0.723	0.1448	0.0594	2.4402	0.7411	5.2807
1047.	1074.	5500.	0.754	0.1442	0.0584	2.4678	0.7478	5.1210
1098.	1294.	6240.	0.791	0.1487	0.0610	2.4370	0.7500	4.8223
1146.	1488.	6900.	0.825	0.1510	0.0617	2.4459	0.7584	4.6371
1197.	1764.	7700.	0.862	0.1544	0.0642	2.4048	0.7542	4.3651
1254.	2110.	8750.	0.903	0.1599	0.0668	2.3934	0.7638	4.1469

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	961.	5094.	799.	1007.	0.1445	0.0588	2.456	0.745	5.300
0.750	1074.	5492.	827.	1041.	0.1455	0.0593	2.452	0.746	5.116
0.775	1192.	5916.	854.	1076.	0.1468	0.0597	2.458	0.751	4.962
0.800	1333.	6380.	882.	1111.	0.1486	0.0607	2.446	0.752	4.784
0.825	1493.	6890.	909.	1146.	0.1509	0.0620	2.433	0.754	4.615
0.850	1671.	7441.	937.	1180.	0.1535	0.0635	2.419	0.756	4.452
0.875	1868.	8032.	964.	1215.	0.1564	0.0650	2.405	0.759	4.301
0.900	2092.	8663.	992.	1250.	0.1594	0.0666	2.393	0.762	4.160

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-JT 34E60 HUB)RUN 211 WALLS DOWN

BETA=10.0 AF= 99.0 DIA=15.160 NBL=4 TEMPC= 2.0 TEMPR= 495.29 SIGMA=1.0330

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
751.	456.	3136.	0.546	0.1598	0.0672	2.3771	0.7583	6.8772
804.	573.	3659.	0.585	0.1627	0.0688	2.3630	0.7606	6.3857
849.	693.	4143.	0.617	0.1652	0.0707	2.3361	0.7577	5.9784
900.	833.	4646.	0.655	0.1648	0.0713	2.3103	0.7485	5.5774
947.	980.	5218.	0.689	0.1672	0.0721	2.3208	0.7573	5.3245
1002.	1203.	6040.	0.729	0.1729	0.0747	2.3155	0.7683	5.0208
1038.	1218.	6040.	0.733	0.1708	0.0743	2.3007	0.7588	4.9589
1050.	1432.	6776.	0.764	0.1766	0.0772	2.2868	0.7669	4.7318
1051.	1428.	6776.	0.764	0.1763	0.0768	2.2953	0.7691	4.7451
1101.	1678.	7512.	0.801	0.1781	0.0785	2.2686	0.7640	4.4768
1101.	1690.	7550.	0.801	0.1790	0.0791	2.2639	0.7643	4.4675
1149.	1974.	8422.	0.836	0.1833	0.0813	2.2563	0.7709	4.2665
1197.	2356.	9583.	0.871	0.1922	0.0858	2.2409	0.7840	4.0675
1230.	2597.	10164.	0.895	0.1931	0.0871	2.2156	0.7769	3.9137

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1178.	5915.	791.	997.	0.1711	0.0743	2.304	0.761	5.022
0.750	1333.	6457.	819.	1031.	0.1745	0.0759	2.298	0.766	4.843
0.775	1500.	6980.	846.	1066.	0.1767	0.0774	2.282	0.765	4.653
0.800	1684.	7550.	873.	1100.	0.1793	0.0790	2.270	0.767	4.484
0.825	1888.	8166.	900.	1134.	0.1824	0.0808	2.258	0.770	4.326
0.850	2123.	8854.	928.	1169.	0.1863	0.0830	2.243	0.773	4.171
0.875	2384.	9602.	955.	1203.	0.1906	0.0855	2.230	0.777	4.027

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-OT 34E60 HUB) RUN 210 WALLS DOWN

BETA=12 O AF= 99.0 DIA=15.160 NBL=4 IEMPC= 2.0 TEMPR= 495.29 SIGMA=1.0310

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
758.	596.	3686.	0.551	0.1844	0.0855	2.1576	0.7393	6.1846
805.	718.	4132.	0.585	0.1832	0.0859	2.1322	0.7284	5.7549
853.	864.	4714.	0.620	0.1862	0.0869	2.1420	0.7376	5.4560
907.	1063.	5393.	0.660	0.1884	0.0890	2.1179	0.7336	5.0734
952.	1251.	6004.	0.692	0.1904	0.0905	2.1029	0.7322	4.7994
1000.	1498.	6848.	0.727	0.1968	0.0935	2.1040	0.7449	4.5714
1047.	1781.	7663.	0.761	0.2009	0.0969	2.0734	0.7416	4.3026
1098.	2110.	8517.	0.799	0.2030	0.0995	2.0399	0.7335	4.0365
1151.	2568.	9739.	0.837	0.2113	0.1052	2.0091	0.7369	3.7924
1197.	3086.	11039.	0.871	0.2214	0.1124	1.9707	0.7400	3.5771
1222.	3312.	11543.	0.889	0.2222	0.1133	1.9602	0.7373	3.4852

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD.

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1483.	6764.	791.	997.	0.1956	0.0935	2.092	0.738	4.561
0.750	1674.	7342.	819.	1031.	0.1984	0.0953	2.082	0.740	4.387
0.775	1883.	7938.	846.	1066.	0.2009	0.0972	2.067	0.740	4.216
0.800	2139.	8621.	873.	1100.	0.2048	0.1004	2.040	0.737	4.030
0.825	2429.	9370.	900.	1134.	0.2093	0.1039	2.014	0.735	3.858
0.850	2754.	10192.	928.	1169.	0.2145	0.1077	1.990	0.736	3.700
0.875	3117.	11088.	955.	1203.	0.2202	0.1118	1.970	0.738	3.558

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-OT 34E60 HUB)RUN 214 WALLS DOWN

BETA=12.0 AF= 99.0 DIA=15.160 NBL=4 TEMPC= 7.0 TEMPR= 504.29 SIGMA=1.0020

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
874.	744.	4271.	0.580	0.1899	0.0894	2.1243	0.7387	5.7406
906.	1102.	5589.	0.653	0.1957	0.0925	2.1149	0.7466	5.0717
1003.	1558.	7046.	0.723	0.2013	0.0964	2.0877	0.7475	4.5225
1102.	2221.	8902.	0.794	0.2107	0.1036	2.0329	0.7446	4.0081
1200.	3156.	11237.	0.865	0.2243	0.1140	1.9665	0.7432	3.5605
1220.	3361.	11677.	0.879	0.2255	0.1156	1.9508	0.7392	3.4743

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1574.	7102.	798.	1006.	0.2017	0.0966	2.089	0.749	4.512
0.750	1798.	7733.	826.	1041.	0.2053	0.0997	2.059	0.745	4.300
0.775	2047.	8407.	853.	1075.	0.2090	0.1028	2.032	0.741	4.107
0.800	2321.	9124.	881.	1110.	0.2129	0.1060	2.009	0.740	3.932
0.825	2619.	9886.	909.	1145.	0.2169	0.1091	1.988	0.739	3.775
0.850	2942.	10690.	936.	1179.	0.2209	0.1120	1.972	0.740	3.634
0.875	3290.	11539.	964.	1214.	0.2250	0.1146	1.960	0.742	3.507

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-OT 34E60 HUB)RUN 215 WALLS DOWN

BETA=14.0 AF= 99.0 DIA=15.160 NBL=4 TEMPC= 6.0 TEMPR= 502.49 SIGMA=1.0060

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	QTH/HP
762.	775.	4175.	0.550	0.2066	0.1094	1.8893	0.6854	5.3871
803.	919.	4672.	0.580	0.2082	0.1108	1.8789	0.6842	5.0838
849.	1103.	5318.	0.613	0.2120	0.1125	1.8840	0.6923	4.8214
853.	1118.	5328.	0.616	0.2104	0.1125	1.8710	0.6849	4.7657
898.	1289.	5865.	0.648	0.2090	0.1111	1.8806	0.6861	4.5500
898.	1299.	5865.	0.648	0.2090	0.1120	1.8661	0.6808	4.5150
947.	1608.	6819.	0.684	0.2185	0.1182	1.8484	0.6895	4.2407
950.	1588.	6739.	0.686	0.2146	0.1157	1.8555	0.6859	4.2437
1000.	1914.	7634.	0.722	0.2194	0.1195	1.8357	0.6862	3.9885
1049.	2265.	8529.	0.757	0.2228	0.1225	1.8181	0.6847	3.7656
1075.	2578.	9344.	0.776	0.2324	0.1296	1.7933	0.6899	3.6245
1099.	2860.	10020.	0.794	0.2384	0.1345	1.7721	0.6905	3.5035
1120.	3053.	10517.	0.809	0.2410	0.1357	1.7758	0.6956	3.4448

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POINT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1915.	7639.	797.	1004.	0.2178	0.1182	1.843	0.686	3.988
0.750	2199.	8370.	824.	1039.	0.2230	0.1225	1.820	0.686	3.807
0.775	2545.	9247.	852.	1073.	0.2307	0.1285	1.795	0.688	3.634
0.800	2929.	10205.	879.	1108.	0.2389	0.1345	1.777	0.693	3.484

STATIC PROP PERFORMANCE

HSD CONSTITUTION(69033A-0 43E60 HUB) RUN 218 WALLS DOWN

BETA= 8.6 AF= 99.0 DIA=15.160 NREL=3 TEMPC= 1.0 TEMPR= 493.49 SIGMA=1.0320

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
800.	323.	2403.	0.583	0.1079	0.0394	2.7393	0.7181	7.4396
897.	470.	3110.	0.654	0.1111	0.0407	2.7318	0.7266	6.6170
1001.	670.	3954.	0.729	0.1134	0.0417	2.7189	0.7307	5.9015
1046.	777.	4399.	0.762	0.1155	0.0424	2.7256	0.7394	5.6615
1100.	939.	5039.	0.801	0.1197	0.0441	2.7169	0.7501	5.3663
1101.	951.	5078.	0.802	0.1204	0.0445	2.7058	0.7492	5.3396
1148.	1076.	5504.	0.836	0.1200	0.0444	2.7028	0.7472	5.1152
1198.	1264.	6105.	0.873	0.1222	0.0459	2.6632	0.7431	4.8299
1255.	1531.	6938.	0.914	0.1266	0.0484	2.6176	0.7432	4.5317
1299.	1739.	7636.	0.946	0.1301	0.0495	2.6253	0.7555	4.3910

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	659.	3915.	790.	995.	0.1136	0.0417	2.722	0.732	5.944
0.750	743.	4258.	817.	1029.	0.1155	0.0425	2.716	0.737	5.733
0.775	831.	4611.	844.	1064.	0.1171	0.0431	2.715	0.741	5.546
0.800	929.	4980.	872.	1098.	0.1187	0.0438	2.710	0.745	5.363
0.825	1033.	5361.	899.	1132.	0.1202	0.0444	2.706	0.749	5.192
0.850	1148.	5723.	926.	1167.	0.1209	0.0451	2.678	0.743	4.987
0.875	1278.	6146.	953.	1201.	0.1225	0.0461	2.657	0.742	4.808
0.900	1426.	6622.	980.	1235.	0.1247	0.0473	2.640	0.744	4.644
0.925	1590.	7150.	1008.	1269.	0.1275	0.0485	2.627	0.748	4.495

STATIC PROP PERFORMANCE

HSD CONFIGURATION(6903A-3 43E60 HURRUN 217 WALLS DOWN)

BETA=10.6 AF= 99.0 DIA=15.160 NBL=3 TEMPC= 1.0 TEMPR= 493.49 SIGMA=1.0330

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
801.	424.	2875.	0.584	0.1288	0.0515	2.4998	0.7159	6.7807
804.	422.	2865.	0.586	0.1274	0.0507	2.5123	0.7155	6.7891
904.	620.	3678.	0.659	0.1293	0.0524	2.4683	0.7084	5.9323
1004.	894.	4724.	0.732	0.1347	0.0552	2.4418	0.7151	5.2841
1053.	1054.	5324.	0.767	0.1380	0.0564	2.4481	0.7257	5.0512
1099.	1221.	5847.	0.801	0.1391	0.0574	2.4222	0.7210	4.7887
1118.	1295.	6118.	0.815	0.1407	0.0579	2.4310	0.7276	4.7243
1149.	1439.	6582.	0.836	0.1435	0.0594	2.4168	0.7307	4.5740
1149.	1470.	6679.	0.837	0.1454	0.0605	2.4028	0.7311	4.5435
1196.	1724.	7434.	0.871	0.1494	0.0629	2.3737	0.7320	4.3121
1246.	2024.	8228.	0.908	0.1523	0.0653	2.3313	0.7261	4.0652
1297.	2408.	9273.	0.945	0.1584	0.0689	2.2988	0.7302	3.8509

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	865.	4620.	790.	995.	0.1341	0.0548	2.445	0.715	5.339
0.750	974.	5012.	817.	1029.	0.1359	0.0558	2.437	0.717	5.144
0.775	1091.	5429.	844.	1064.	0.1379	0.0566	2.436	0.722	4.977
0.800	1222.	5870.	872.	1098.	0.1399	0.0576	2.428	0.725	4.805
0.825	1369.	6350.	899.	1132.	0.1424	0.0589	2.417	0.728	4.638
0.850	1548.	6909.	926.	1167.	0.1459	0.0609	2.396	0.730	4.462
0.875	1747.	7485.	953.	1201.	0.1492	0.0630	2.369	0.730	4.285
0.900	1964.	8090.	980.	1235.	0.1524	0.0651	2.342	0.730	4.119
0.925	2200.	8723.	1008.	1269.	0.1555	0.0671	2.316	0.729	3.965

STATIC PROP PERFORMANCE

HSD CONSTITUTION(6903A-0 43E60 HUR)RUN 219 WALLS DOWN

BETA=12.6 AF= 99.0 DIA=15.160 NUL=3 TEMPC= 1.0 TEMPR= 493.49 SIGMA=1.0320

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
799.	511.	3140.	0.582	0.1414	0.0626	2.2597	0.6780	6.1448
906.	813.	4302.	0.660	0.1506	0.0683	2.2065	0.6834	5.2915
907.	807.	4264.	0.661	0.1490	0.0675	2.2057	0.6794	5.2838
1006.	1120.	5261.	0.733	0.1494	0.0687	2.1749	0.6709	4.6973
1052.	1349.	6047.	0.767	0.1570	0.0724	2.1704	0.6863	4.4826
1102.	1596.	6783.	0.803	0.1605	0.0745	2.1556	0.6892	4.2500
1151.	1920.	7704.	0.839	0.1671	0.0786	2.1256	0.6934	4.0125
1196.	2255.	8527.	0.871	0.1713	0.0823	2.0815	0.6875	3.7814
1255.	2764.	9651.	0.914	0.1761	0.0873	2.0169	0.6754	3.4917
1304.	3194.	10504.	0.950	0.1775	0.0899	1.9738	0.6636	3.2887

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1107.	5265.	790.	995.	0.1528	0.0702	2.178	0.679	4.755
0.750	1228.	5642.	817.	1029.	0.1530	0.0703	2.178	0.680	4.596
0.775	1393.	6166.	844.	1064.	0.1566	0.0721	2.166	0.684	4.425
0.800	1584.	6718.	872.	1098.	0.1602	0.0747	2.143	0.685	4.242
0.825	1794.	7358.	899.	1132.	0.1649	0.0772	2.137	0.693	4.101
0.850	2034.	7982.	926.	1167.	0.1686	0.0800	2.107	0.690	3.925
0.875	2292.	8601.	953.	1201.	0.1714	0.0826	2.074	0.685	3.753
0.900	2573.	9232.	980.	1235.	0.1739	0.0852	2.040	0.679	3.589
0.925	2877.	9877.	1008.	1269.	0.1761	0.0878	2.006	0.672	3.434
0.950	3204.	10534.	1035.	1304.	0.1781	0.0903	1.973	0.664	3.288

STATIC PROP PERFORMANCE

HSD CONSTELLATION(6903A-0 43E60 HUR)RUN 220 WALLS DOWN

BETA=14.7 AF= 99.0 DIA=15.160 NBL=3 TEMPC= 5.0 TEMPR= 500.69 SIGMA=1.0200

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
805.	684.	3587.	0.582	0.1591	0.0819	1.9430	0.6184	5.2442
904.	1010.	4645.	0.654	0.1634	0.0854	1.9135	0.6172	4.5990
1002.	1454.	5900.	0.725	0.1689	0.0902	1.8714	0.6137	4.0578
1050.	1731.	6644.	0.760	0.1732	0.0934	1.8549	0.6160	3.8382
1101.	2110.	7605.	0.796	0.1803	0.0987	1.8264	0.6189	3.6043
1149.	2467.	8389.	0.831	0.1826	0.1016	1.7983	0.6132	3.4005
1200.	2979.	9408.	0.868	0.1878	0.1076	1.7443	0.6031	3.1581
1240.	3314.	9996.	0.897	0.1868	0.1085	1.7215	0.5938	3.0163
1242.	3347.	9996.	0.898	0.1862	0.1091	1.7072	0.5879	2.9866

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1461.	5933.	796.	1002.	0.1697	0.0906	1.873	0.616	4.061
0.750	1665.	6461.	823.	1037.	0.1727	0.0933	1.852	0.614	3.881
0.775	1880.	7022.	850.	1071.	0.1758	0.0955	1.842	0.616	3.735
0.800	2141.	7669.	878.	1106.	0.1802	0.0988	1.823	0.618	3.582
0.825	2416.	8274.	905.	1140.	0.1828	0.1017	1.798	0.613	3.424
0.850	2720.	8906.	933.	1175.	0.1854	0.1047	1.771	0.609	3.275
0.875	3035.	9493.	960.	1210.	0.1865	0.1071	1.741	0.600	3.128

STATIC PROCP PERFORMANCE

141022P3
XC-142A6E-33 CURTISS RUN 55 WALLS DOWN NO GAGES

BETA=20.0 AF= 97.0 DIA=14.000 NBL=4 TEMPC= 13.5 TEMPR= 515.99 SIGMA=0.9870

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
803.	187.	1759.	0.528	0.1078	0.0336	3.2105	0.8411	9.4064
901.	271.	2204.	0.593	0.1073	0.0344	3.1146	0.8141	8.1328
999.	383.	2750.	0.657	0.1089	0.0357	3.0488	0.8028	7.1802
1102.	541.	3377.	0.725	0.1099	0.0376	2.9238	0.7734	6.2421
1232.	802.	4368.	0.811	0.1137	0.0399	2.8520	0.7675	5.4464

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TPPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.550	211.	1900.	613.	836.	0.1075	0.0336	3.196	0.836	8.998
0.575	242.	2072.	641.	874.	0.1072	0.0338	3.175	0.830	8.550
0.600	279.	2258.	668.	912.	0.1073	0.0342	3.137	0.820	8.095
0.625	321.	2458.	696.	950.	0.1077	0.0348	3.091	0.809	7.658
0.650	368.	2671.	724.	988.	0.1082	0.0355	3.045	0.799	7.252
0.675	421.	2897.	752.	1026.	0.1088	0.0363	3.000	0.790	6.882
0.700	479.	3138.	780.	1064.	0.1096	0.0370	2.961	0.782	6.548
0.725	543.	3391.	808.	1102.	0.1104	0.0377	2.927	0.776	6.249
0.750	611.	3658.	835.	1140.	0.1113	0.0384	2.898	0.771	5.983
0.775	686.	3939.	863.	1178.	0.1122	0.0390	2.875	0.769	5.744
0.800	765.	4233.	891.	1216.	0.1132	0.0396	2.858	0.767	5.531

STATIC PROP PERFORMANCE

14/6/62 P3

XC-142AFC-24100TSS RUN 56 WALLS DOWN NO GAGES

BETA=21.0 AF= 97.0 DIA=14.000 NBL=4 TEMPC= 13.5 TEMPR= 515.99 SIGMA=0.9870

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RIH/HP
801.	205.	1844.	0.527	0.1136	0.0371	3.0625	0.8236	8.9951
907.	309.	2371.	0.597	0.1139	0.0385	2.9581	0.7966	7.6731
1012.	452.	3019.	0.666	0.1165	0.0405	2.8730	0.7825	6.6792
1100.	600.	3607.	0.724	0.1178	0.0419	2.8107	0.7698	6.0117
1227.	904.	4762.	0.807	0.1250	0.0455	2.7472	0.7750	5.2677

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.550	234.	2003.	613.	836.	0.1133	0.0372	3.043	0.817	8.566
0.575	268.	2184.	641.	874.	0.1130	0.0374	3.023	0.811	8.140
0.600	309.	2384.	668.	912.	0.1133	0.0379	2.987	0.802	7.706
0.625	357.	2602.	696.	950.	0.1140	0.0387	2.943	0.793	7.291
0.650	411.	2838.	724.	988.	0.1149	0.0396	2.900	0.785	6.907
0.675	471.	3093.	752.	1026.	0.1161	0.0406	2.860	0.778	6.560
0.700	538.	3366.	780.	1064.	0.1175	0.0416	2.826	0.773	6.251
0.725	612.	3658.	808.	1102.	0.1191	0.0425	2.798	0.771	5.976
0.750	692.	3968.	835.	1140.	0.1207	0.0435	2.777	0.770	5.732
0.775	779.	4296.	863.	1178.	0.1224	0.0443	2.761	0.771	5.516
0.800	872.	4643.	891.	1216.	0.1241	0.0451	2.752	0.774	5.325

STATIC PROCP PERFORMANCE

1742 APCP3

XC-142A ~~142A~~ CURTISS RUN 57 WALLS DOWN NO GAGES

BETA=22.0 AF= 97.0 DIA=14.000 NBL=4 TEMPC= 13.5 TEMPK= 515.99 SIGMA=0.9870

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RIH/HP
798.	229.	2047.	0.525	0.1270	0.0419	3.0319	0.8623	8.9389
905.	357.	2695.	0.596	0.1300	0.0448	2.9338	0.8356	7.5490
1007.	492.	3262.	0.658	0.1289	0.0457	2.8180	0.8074	6.6301
1104.	705.	4093.	0.726	0.1327	0.0487	2.7243	0.7919	5.8057
1234.	1107.	5491.	0.812	0.1425	0.0544	2.6182	0.7887	4.9918

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6-POINT 2ND ORDER. TH, 6-POINT 2ND ORDER.)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.550	266.	2252.	613.	836.	0.1274	0.0423	3.009	0.857	8.470
0.575	304.	2449.	641.	874.	0.1268	0.0423	2.995	0.851	8.064
0.600	350.	2670.	668.	912.	0.1269	0.0430	2.954	0.840	7.622
0.625	406.	2914.	696.	950.	0.1276	0.0440	2.900	0.827	7.184
0.650	470.	3181.	724.	988.	0.1288	0.0453	2.844	0.815	6.774
0.675	542.	3471.	752.	1026.	0.1303	0.0467	2.791	0.804	6.402
0.700	623.	3784.	780.	1064.	0.1321	0.0481	2.744	0.796	6.069
0.725	713.	4120.	808.	1102.	0.1341	0.0496	2.704	0.790	5.775
0.750	812.	4479.	835.	1140.	0.1362	0.0510	2.672	0.787	5.516
0.775	919.	4861.	863.	1178.	0.1385	0.0523	2.647	0.786	5.288
0.800	1035.	5266.	891.	1216.	0.1408	0.0536	2.629	0.787	5.087

STATIC PROP PERFORMANCE

1470 A2 P3

XC-142ATC-847CUOTISS RUN 58 WALLS DOWN NO GAGES

BETA=23.0 AF= 97.0 DIA=14.000 NBL=4 TEMPC= 13.5 TEMPR= 515.99 SIGMA=0.9870

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
799.	260.	2168.	0.526	0.1342	0.0474	2.8318	0.8278	8.3385
899.	382.	2776.	0.592	0.1357	0.0489	2.7763	0.8164	7.2670
998.	561.	3526.	0.657	0.1399	0.0525	2.6661	0.7957	6.2852
1105.	816.	4498.	0.727	0.1456	0.0562	2.5889	0.7882	5.5123
1230.	1267.	5998.	0.809	0.1567	0.0633	2.4749	0.7817	4.7340

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.550	297.	2371.	613.	836.	0.1341	0.0473	2.839	0.830	7.991
0.575	340.	2595.	641.	874.	0.1343	0.0473	2.838	0.830	7.641
0.600	393.	2846.	668.	912.	0.1352	0.0482	2.805	0.823	7.237
0.625	457.	3122.	696.	950.	0.1368	0.0496	2.756	0.813	6.826
0.650	532.	3426.	724.	988.	0.1387	0.0514	2.702	0.803	6.435
0.675	618.	3756.	752.	1026.	0.1411	0.0532	2.650	0.794	6.078
0.700	714.	4113.	780.	1064.	0.1436	0.0552	2.603	0.787	5.758
0.725	821.	4496.	808.	1102.	0.1464	0.0571	2.564	0.783	5.474
0.750	939.	4906.	835.	1140.	0.1492	0.0590	2.531	0.780	5.225
0.775	1067.	5342.	863.	1178.	0.1522	0.0607	2.506	0.780	5.005
0.800	1206.	5805.	891.	1216.	0.1552	0.0624	2.487	0.782	4.812

STATIC PROP PERFORMANCE

XC-142ARLAGE 47X75 RUN TO 195 WALLS DOWN

BETA= 4.0 VE= 99.0 DIA=16.000 PITCH= 70° 23 SUMMA=0.9530

***** R* DATA POINTS *****

RPM	HP	TH	TPACH	RCT	RCP	RCT/CP	RPM	RTH/HP
695.	117.	1280.	0.403	0.0530	0.0141	3.7675	0.6920	10.7563
809.	192.	1673.	0.539	0.0513	0.0144	3.5633	0.6438	8.7396
925.	287.	2182.	0.626	0.0510	0.0144	3.5443	0.6386	7.6028
1039.	414.	2643.	0.692	0.0489	0.0146	3.3429	0.5902	6.3841
1070.	451.	2811.	0.713	0.0491	0.0146	3.3611	0.5942	6.2328
1101.	494.	2979.	0.733	0.0491	0.0147	3.3461	0.5918	6.0304
1131.	543.	3084.	0.753	0.0482	0.0149	3.2373	0.5672	5.6796
1159.	584.	3252.	0.772	0.0484	0.0149	3.2526	0.5710	5.5685
1183.	624.	3315.	0.788	0.0474	0.0152	3.1174	0.5413	5.2287
1216.	704.	3525.	0.810	0.0477	0.0155	3.0685	0.5346	5.0071
1244.	774.	3619.	0.828	0.0468	0.0159	2.9314	0.5058	4.6757
1275.	854.	3672.	0.849	0.0452	0.0163	2.7629	0.4685	4.2998
1307.	955.	3692.	0.870	0.0432	0.0170	2.5465	0.4224	3.8660
1329.	1054.	3776.	0.885	0.0427	0.0178	2.3995	0.3959	3.5825
1354.	1140.	3819.	0.903	0.0415	0.0181	2.2888	0.3721	3.3491

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 5 PI

MACH	HP	TH	TPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	478.	2393.	946.	1089.	0.0488	0.0147	3.319	0.585	6.049
0.750	532.	3087.	979.	1126.	0.0487	0.0148	3.290	0.579	5.797
0.775	595.	3252.	1011.	1164.	0.0480	0.0150	3.203	0.560	5.461
0.800	671.	3442.	1044.	1201.	0.0477	0.0154	3.106	0.541	5.130
0.825	759.	3590.	1077.	1239.	0.0468	0.0158	2.951	0.509	4.728
0.850	862.	3665.	1109.	1276.	0.0450	0.0165	2.734	0.463	4.250
0.875	985.	3737.	1142.	1314.	0.0433	0.0172	2.512	0.417	3.793
0.900	1127.	3806.	1175.	1351.	0.0417	0.0181	2.300	0.375	3.377

SI IC P

XC-142A BLADE 47475 RUJ MD 196 WALLS DOWN

FEIA= 6.0 WF= 9.40 DIA=16.000 TUL=4 TPC= 20.3 TEMPR= 527.23 SIGMA=C.9530

***** DATA POINTS *****

RPM	HP	TIPS	TH	RPM	CT	CP	CT/CP	RFM	RTM/HP
692.	170.	1743.	0.538	0.0715	0.0198	3.5067	0.7697	10.2529	
807.	270.	2259.	0.622	0.0703	0.0204	3.4480	0.7294	8.4778	
922.	397.	2919.	0.711	0.0686	0.0201	3.4165	0.7143	7.3526	
1043.	592.	3733.	0.804	0.0687	0.0207	3.3190	0.6942	6.3142	
1063.	524.	3906.	0.824	0.0685	0.0206	3.3161	0.6924	6.1609	
1096.	693.	4074.	0.845	0.0678	0.0208	3.2613	0.6777	5.9043	
1126.	743.	4242.	0.868	0.0669	0.0208	3.2182	0.6642	5.6711	
1159.	825.	4404.	0.893	0.0670	0.0211	3.1791	0.6566	5.4473	
1180.	909.	4746.	0.917	0.0671	0.0215	3.1286	0.6468	5.2211	
1215.	985.	5019.	0.937	0.0680	0.0218	3.1169	0.6485	5.0903	
1243.	1063.	5145.	0.959	0.0666	0.0220	3.0320	0.6243	4.8401	
1272.	1153.	5376.	0.981	0.0664	0.0223	2.9761	0.6121	4.6425	
1304.	1286.	5523.	1.006	0.0649	0.0230	2.8224	0.5739	4.2947	
1331.	1405.	5502.	1.029	0.0618	0.0235	2.6309	0.5215	3.9132	
1353.	1534.	5569.	1.047	0.0604	0.0243	2.4846	0.4872	3.6304	

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TIPS	TH	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	427.	3048.	0.538	940.	0.0689	0.0204	3.391	0.708	7.135
0.750	475.	3252.	0.622	973.	0.0587	0.0205	3.354	0.702	6.843
0.775	527.	3463.	0.711	1005.	0.0695	0.0206	3.331	0.696	6.577
0.800	531.	3681.	0.802	1037.	0.0684	0.0206	3.312	0.691	6.334
0.825	629.	3907.	0.930.	1070.	0.0692	0.0207	3.298	0.688	6.117
0.850	699.	4102.	0.958.	1102.	0.0675	0.0207	3.258	0.676	5.866
0.875	769.	4310.	0.956.	1135.	0.0669	0.0209	3.204	0.662	5.504
0.900	830.	4580.	1.014.	1167.	0.0672	0.0212	3.170	0.656	5.390
0.925	938.	4843.	1.043.	1193.	0.0674	0.0216	3.124	0.647	5.167
0.950	1031.	5103.	1.071.	1232.	0.0672	0.0219	3.073	0.636	4.949
0.975	1135.	5329.	1.099.	1264.	0.0665	0.0223	2.991	0.616	4.693
1.000	1252.	5453.	1.127.	1297.	0.0649	0.0228	2.850	0.579	4.361

ST-1C PROP PERFORMANCE

XC-1421(0.7X75) RUN ID 197 WALLS DOWN

BETA= 3.0 NF= 92.0 DIA=16.000 D/L=4 F WPC= 20.1 TEMPR= 527.97 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	F/MACH	RCT	RCP	RCT/CP	RPM	RTH/HP
695.	233.	2226.	0.536	0.0921	0.0281	3.2760	0.7935	9.3529
812.	327.	3003.	0.616	0.0911	0.0288	3.1592	0.7607	7.7198
927.	592.	3885.	0.715	0.0904	0.0295	3.0659	0.7355	6.5625
1034.	875.	4978.	0.801	0.0927	0.0311	2.9847	0.7253	5.7055
1067.	953.	5250.	0.823	0.0922	0.0311	2.9624	0.7178	5.5089
1097.	1050.	5565.	0.846	0.0924	0.0315	2.9302	0.7110	5.3000
1129.	1151.	5859.	0.870	0.0921	0.0318	2.9938	0.7006	5.0904
1154.	1251.	6237.	0.890	0.0936	0.0323	2.9996	0.7080	4.9856
1185.	1355.	6678.	0.915	0.0949	0.0329	2.8820	0.7085	4.8217
1217.	1518.	7056.	0.939	0.0952	0.0334	2.8509	0.7021	4.6482
1244.	1655.	7475.	0.960	0.0966	0.0341	2.8321	0.7023	4.5172
1271.	1778.	7749.	0.980	0.0959	0.0343	2.7917	0.6899	4.3583
1303.	1947.	7896.	1.005	0.0930	0.0349	2.6631	0.6480	4.0555
1333.	2103.	8043.	1.028	0.0905	0.0352	2.5693	0.6168	3.8245
1359.	2280.	8211.	1.048	0.0839	0.0360	2.4666	0.5868	3.6013

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	626.	4025.	817.	940.	0.0911	0.0299	3.047	0.734	6.432
0.750	702.	4320.	845.	972.	0.0914	0.0303	3.017	0.728	6.157
0.775	783.	4628.	873.	1005.	0.0917	0.0306	2.992	0.723	5.909
0.800	871.	4949.	901.	1037.	0.0920	0.0310	2.971	0.719	5.685
0.825	964.	5285.	930.	1069.	0.0924	0.0313	2.955	0.717	5.483
0.850	1062.	5594.	958.	1102.	0.0921	0.0315	2.924	0.708	5.265
0.875	1177.	5980.	986.	1134.	0.0929	0.0320	2.905	0.707	5.081
0.900	1301.	6388.	1014.	1167.	0.0938	0.0325	2.888	0.706	4.911
0.925	1442.	6852.	1042.	1199.	0.0953	0.0332	2.872	0.707	4.753
0.950	1539.	7294.	1070.	1231.	0.0961	0.0338	2.848	0.705	4.589
0.975	1746.	7649.	1099.	1264.	0.0957	0.0343	2.790	0.689	4.380
1.000	1909.	7999.	1127.	1296.	0.0940	0.0348	2.703	0.661	4.137

STATIC PROP PERFORMANCE

XC-142A(47X75) RUN NO 198 WALLS DOWN

PETA=10.0 AF= 92.0 CIA=16.600 VOL=4 TEMPC= 20.1 (PR= 527.87 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
895.	326.	2709.	0.526	0.1121	0.0397	2.8240	0.7546	8.0625
910.	552.	3695.	0.625	0.1126	0.0412	2.7333	0.7320	6.6957
930.	862.	4935.	0.717	0.1141	0.0425	2.6833	0.7232	5.7251
1042.	1303.	6426.	0.804	0.1183	0.0459	2.5799	0.7082	4.9128
1070.	1440.	6867.	0.825	0.1199	0.0466	2.5716	0.7106	4.7687
1095.	1575.	7245.	0.845	0.1206	0.0475	2.5408	0.7041	4.6000
1134.	1779.	7854.	0.875	0.1221	0.0484	2.5231	0.7035	4.4148
1157.	1932.	8379.	0.893	0.1251	0.0495	2.5289	0.7139	4.3370
1183.	2124.	8841.	0.913	0.1263	0.0509	2.4817	0.7038	4.1624
1213.	2343.	9366.	0.940	0.1262	0.0514	2.4538	0.6957	3.9974
1245.	2510.	9702.	0.961	0.1249	0.0515	2.4273	0.6846	3.8653
1272.	2700.	9996.	0.981	0.1235	0.0520	2.3733	0.6656	3.7022
1304.	2913.	10290.	1.006	0.1210	0.0522	2.3175	0.6432	3.5264
1327.	3064.	10521.	1.024	0.1194	0.0520	2.2964	0.6333	3.4337
1357.	3335.	10773.	1.047	0.1170	0.0529	2.2092	0.6029	3.2303

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	907.	5077.	817.	940.	0.1149	0.0433	2.652	0.717	5.598
0.750	1025.	5484.	845.	972.	0.1160	0.0442	2.622	0.713	5.352
0.775	1153.	5914.	873.	1005.	0.1171	0.0451	2.598	0.710	5.131
0.800	1291.	6366.	901.	1037.	0.1183	0.0459	2.578	0.708	4.933
0.825	1438.	6836.	930.	1069.	0.1195	0.0466	2.562	0.707	4.754
0.850	1579.	7343.	958.	1102.	0.1209	0.0474	2.550	0.709	4.592
0.875	1793.	7933.	986.	1134.	0.1233	0.0487	2.529	0.709	4.424
0.900	2022.	8529.	1014.	1167.	0.1253	0.0500	2.505	0.707	4.260
0.925	2218.	9097.	1042.	1199.	0.1265	0.0510	2.478	0.703	4.101
0.950	2428.	9536.	1070.	1231.	0.1257	0.0516	2.478	0.690	3.928
0.975	2639.	9909.	1099.	1264.	0.1240	0.0519	2.391	0.672	3.754
1.000	2856.	10231.	1127.	1296.	0.1217	0.0520	2.340	0.651	3.582

STATIC PROP PERFORMANCE

XC-142A(47X75) 20' W 19' CALLS DOWN

Reyn=12.0 Re= 95.0 DIA=16.500 THL=+ 1.000 PC= 13.8 TEMPR= 516.53 SIGMA=0.9850

***** DATA POINTS *****

RPM	HP	TH	TRACH	RCT	RCP	R.I/CP	RFM	RTH/HP
890.	460.	3263.	0.537	0.1376	0.0558	2.4669	0.7303	7.1043
915.	759.	4649.	0.636	0.1399	0.0585	2.3899	0.7134	5.8185
923.	1220.	6090.	0.720	0.1429	0.0615	2.3220	0.7005	4.9918
1046.	1973.	8384.	0.816	0.1532	0.0695	2.2378	0.6989	4.2451
1069.	2157.	8891.	0.833	0.1558	0.0702	2.2186	0.6989	4.1219
1099.	2432.	9582.	0.857	0.1586	0.0727	2.1822	0.6935	3.9400
1127.	2671.	10231.	0.879	0.1610	0.0740	2.1756	0.6967	3.8304
1154.	2945.	10851.	0.900	0.1633	0.0760	2.1488	0.6930	3.6947
1184.	3250.	11531.	0.923	0.1647	0.0777	2.1208	0.6869	3.5542
1207.	3423.	11957.	0.941	0.1641	0.0774	2.1187	0.6848	3.4830
1214.	3486.	11957.	0.947	0.1622	0.0773	2.0986	0.6744	3.4300

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1269.	6248.	808.	930.	0.1445	0.0626	2.307	0.700	4.925
0.750	1447.	6797.	836.	962.	0.1469	0.0645	2.276	0.696	4.695
0.775	1643.	7382.	864.	994.	0.1494	0.0664	2.250	0.694	4.492
0.800	1857.	8004.	892.	1026.	0.1521	0.0682	2.229	0.694	4.311
0.825	2079.	8644.	919.	1058.	0.1544	0.0696	2.217	0.695	4.158
0.850	2341.	9366.	947.	1090.	0.1576	0.0717	2.198	0.696	4.001
0.875	2634.	10122.	975.	1122.	0.1607	0.0740	2.173	0.695	3.843
0.900	2949.	10998.	1003.	1154.	0.1636	0.0761	2.150	0.694	3.696
0.925	3245.	11543.	1031.	1186.	0.1640	0.0771	2.126	0.687	3.557

ST . . C PROP PERFORMANCE

XC-142A(-7A75) RUN 10 200 1115 00PM

BETA=14.0 AF= 95.0 GMA=16.000 WBL=4 I *PC= 13.5 T *PR= 515.97 SIGMA=0.9870

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	RTH/HP
702.	641.	3931.	0.548	0.1603	0.0735	2.1607	0.6967	6.1638
809.	1022.	5258.	0.631	0.1615	0.0766	2.1095	0.5766	5.1742
929.	1655.	7233.	0.725	0.1675	0.0819	2.0450	0.6680	4.3678
1040.	2573.	9664.	0.811	0.1786	0.0907	1.9686	0.6639	3.7559
1073.	2961.	10595.	0.837	0.1840	0.0951	1.9351	0.6624	3.5785
1084.	3112.	10981.	0.846	0.1868	0.0969	1.9277	0.6649	3.5285

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1672.	7258.	805.	929.	0.1680	0.0827	2.032	0.665	4.340
0.750	1916.	7918.	835.	951.	0.1713	0.0856	2.002	0.661	4.133
0.775	2184.	8627.	863.	993.	0.1748	0.0884	1.978	0.660	3.951
0.800	2476.	9356.	891.	1025.	0.1785	0.0911	1.959	0.660	3.790
0.825	2734.	10193.	919.	1057.	0.1823	0.0938	1.944	0.662	3.649

STATIC PROP PERFORMANCE

XC-142A(47X75) RUN TO 201 KALLS DOWN

PETA=16.0 AF= 93.0 DIA=16.510 WPL=4 COMP= 13.5 TEMPR= 515.99 SIGMA=0.9890

***** CAL DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
596.	785.	4266.	0.543	0.1761	0.0924	1.9062	0.6383	5.4344
616.	1247.	6127.	0.637	0.1840	0.0983	1.8706	0.6402	4.5486
878.	1729.	7138.	0.685	0.1867	0.1013	1.8432	0.6355	4.1655
930.	2106.	8139.	0.726	0.1881	0.1039	1.8114	0.6269	3.8647
955.	2325.	8715.	0.746	0.1906	0.1056	1.8060	0.6292	3.7484
1009.	2873.	10009.	0.787	0.1965	0.1109	1.7716	0.6267	3.4838

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.775	2118.	8193.	808.	929.	0.1897	0.1047	1.811	0.630	3.868
0.750	2395.	8974.	835.	961.	0.1920	0.1070	1.795	0.628	3.705
0.775	2696.	9590.	863.	993.	0.1943	0.1091	1.781	0.626	3.558

STATIC PROP PERFORMANCE

XC-142A(47X75) RUN NO 202 WALLS GOWN

BETA=18.0 AF= 92.0 DIA=16.000 YBI=4 TCMPC= 13.1 TCMPR= 515.27 SIGMA=0.9890

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
702.	1061.	4853.	0.548	0.1969	0.1217	1.6182	0.5730	4.5740
736.	1189.	5379.	0.575	0.1985	0.1183	1.6791	0.5966	4.5240
731.	1451.	6127.	0.610	0.2008	0.1208	1.6620	0.5943	4.2226
812.	1646.	6612.	0.634	0.2005	0.1220	1.6439	0.5874	4.0170
877.	2113.	7805.	0.685	0.2029	0.1246	1.6288	0.5954	3.6851
925.	2529.	8775.	0.722	0.2050	0.1268	1.6175	0.5845	3.4698
941.	2680.	9059.	0.735	0.2045	0.1276	1.6030	0.5785	3.3802

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP
0.725	2562.	3922.	807.	929.	0.2045	0.1270	1.611	0.581	3.443

STATIC PROCP PERFORMANCE

XC-142A(47K71) RUM 0 202 ALLS DOWN

WETA=20.0 AF= 92.0 MAX=16.700 NBL=4 T=PPC= 13.0 T=PR= 515.09 SIGMA=0.9890

***** RA. DATA OUTPUTS *****

RPM	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
704.	1253.	5257.	0.510	0.2120	0.1430	1.4827	0.5448	4.1783	
735.	1461.	5823.	0.575	0.2149	0.1454	1.4784	0.5469	3.9856	
780.	1720.	6450.	0.609	0.2119	0.1438	1.4741	0.5416	3.7500	
810.	1960.	7037.	0.633	0.2144	0.1463	1.4656	0.5416	3.5903	
874.	2451.	8230.	0.683	0.2154	0.1480	1.4553	0.5390	3.3039	

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 PCINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP

STATIC PROP PERFORMANCE

CURTISS CALIB PROP RUN NO 87 WALLS ~~UP~~ DOWN 19 AUG 65
BEIA=21.1 AF=93.0 DIA=13.000 NBL=4 JEMPC=27.0 JEMPR=540.29 SIGMA=0.9370.

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCI/CP	REM	RIH/HP
700.	265.	1868.	0.418	0.2026	0.1040	1.9475	0.6995	7.0491
806.	420.	2540.	0.481	0.2078	0.1080	1.9238	0.6998	6.5776
905.	619.	3245.	0.540	0.2106	0.1125	1.8725	0.6857	5.2423
1001.	857.	4034.	0.598	0.2140	0.1151	1.8597	0.6865	4.7071
1096.	1192.	4952.	0.654	0.2191	0.1219	1.7970	0.6713	4.1544
1200.	1663.	6140.	0.717	0.2266	0.1296	1.7486	0.6643	3.6921
1294.	2207.	7260.	0.773	0.2304	0.1372	1.6800	0.6436	3.2895
1402.	2930.	8580.	0.837	0.2320	0.1432	1.6204	0.6228	2.9283

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TH/HP
0.525	546.	3032.	598.	879.	0.2085	0.1081	1.928	0.703	5.556
0.550	645.	3360.	627.	921.	0.2105	0.1111	1.895	0.694	5.212
0.575	757.	3711.	655.	963.	0.2127	0.1142	1.862	0.685	4.900
0.600	868.	4079.	684.	1005.	0.2147	0.1152	1.864	0.689	4.701
0.625	1009.	4471.	712.	1047.	0.2169	0.1185	1.830	0.680	4.430
0.650	1168.	4887.	741.	1089.	0.2192	0.1220	1.798	0.672	4.184
0.675	1336.	5349.	769.	1130.	0.2225	0.1245	1.787	0.672	4.005
0.700	1529.	5802.	798.	1172.	0.2244	0.1279	1.755	0.663	3.793
0.725	1742.	6273.	826.	1214.	0.2262	0.1311	1.725	0.655	3.600
0.750	1974.	6761.	855.	1256.	0.2278	0.1342	1.698	0.647	3.425
0.775	2225.	7268.	883.	1298.	0.2293	0.1371	1.673	0.639	3.267
0.800	2495.	7703.	912.	1340.	0.2308	0.1397	1.652	0.633	3.123
0.825	2784.	8336.	940.	1382.	0.2321	0.1422	1.633	0.628	2.994

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 84 WALLS DOWN 20 AUG 65

REIA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 23.5 TEMPR= 533.99 SIGMA=0.9530

***** RAW DATA POINTS *****

RPM	MP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
698.	276.	1911.	0.419	0.2085	0.1093	1.9074	0.6950	6.9239
811.	446.	2603.	0.487	0.2103	0.1126	1.8691	0.6837	5.8363
894.	615.	3211.	0.537	0.2135	0.1159	1.8422	0.6793	5.2211
1000.	882.	4072.	0.601	0.2164	0.1188	1.8222	0.6765	4.6168
1094.	1187.	4911.	0.657	0.2181	0.1221	1.7864	0.6657	4.1373
1201.	1675.	6125.	0.721	0.2257	0.1302	1.7333	0.6571	3.6567
1294.	2200.	7220.	0.777	0.2292	0.1367	1.6761	0.6403	3.2818
1399.	2989.	8585.	0.840	0.2331	0.1470	1.5864	0.6113	2.8732

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, & PCINT 2ND ORDER. TM, &

MACH	MP	TH	IIPS	RPM	CI	CP	CI/CP	FM	TM/MP
0.525	556.	3039.	595.	874.	0.2114	0.1121	1.886	0.692	5.468
0.550	653.	3357.	623.	916.	0.2128	0.1155	1.859	0.684	5.154
0.575	762.	3697.	652.	957.	0.2144	0.1170	1.832	0.677	4.849
0.600	885.	4057.	680.	999.	0.2161	0.1195	1.808	0.671	4.586
0.625	1003.	4429.	709.	1041.	0.2174	0.1199	1.813	0.674	4.414
0.650	1156.	4831.	737.	1082.	0.2193	0.1229	1.785	0.667	4.178
0.675	1305.	5255.	765.	1124.	0.2212	0.1238	1.786	0.670	4.027
0.700	1497.	5699.	793.	1165.	0.2230	0.1274	1.751	0.660	3.806
0.725	1711.	6164.	822.	1207.	0.2249	0.1310	1.717	0.650	3.603
0.750	1946.	6652.	850.	1259.	0.2268	0.1344	1.685	0.640	3.419
0.775	2202.	7161.	878.	1290.	0.2286	0.1380	1.656	0.632	3.252
0.800	2490.	7693.	907.	1332.	0.2305	0.1413	1.631	0.625	3.103
0.825	2779.	8247.	935.	1373.	0.2323	0.1444	1.609	0.519	2.968

STATIC PROP PERFORMANCE

CURTISS CALIO PROP RUN NO 104 WALLS DOWN

BEJA=21.1, AE= 92.0 DIA=13.000 NBL=5, TEMPC= 26.2, TEMPR= 539.39 SIGMA=0.9360

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCL	RCP	RCL/CP	REM	RM/MP
702.	289.	2009.	0.420	0.2167	0.1121	1.9327	0.7179	6.9757
804.	444.	2608.	0.481	0.2144	0.1150	1.8639	0.6888	5.8739
894.	616.	3183.	0.534	0.2117	0.1161	1.8232	0.6694	5.1672
1005.	866.	4038.	0.601	0.2125	0.1159	1.8495	0.6803	4.6628
1094.	1212.	4935.	0.656	0.2176	0.1233	1.7645	0.6568	4.0718
1210.	1698.	6070.	0.723	0.2204	0.1291	1.7072	0.6395	3.5748
1302.	2250.	7285.	0.778	0.2284	0.1373	1.6638	0.6345	3.2378
1400.	2982.	8505.	0.837	0.2306	0.1463	1.5759	0.6040	2.8521

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 6 POINT 2ND ORDER. IM, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CJ/CP	FM	IM/MP
0.525	563.	3076.	598.	878.	0.2119	0.1118	1.894	0.696	5.464
0.550	659.	3382.	626.	920.	0.2122	0.1132	1.863	0.685	5.130
0.575	769.	3708.	655.	962.	0.2129	0.1162	1.832	0.674	4.824
0.600	891.	4056.	683.	1004.	0.2139	0.1186	1.803	0.665	4.550
0.625	1008.	4403.	712.	1046.	0.2140	0.1187	1.803	0.665	4.368
0.650	1163.	4802.	740.	1088.	0.2158	0.1218	1.772	0.657	4.127
0.675	1319.	5238.	769.	1129.	0.2182	0.1232	1.771	0.660	3.973
0.700	1514.	5682.	797.	1171.	0.2202	0.1269	1.735	0.650	3.753
0.725	1732.	6151.	826.	1213.	0.2221	0.1306	1.701	0.640	3.552
0.750	1971.	6642.	854.	1255.	0.2242	0.1343	1.669	0.631	3.370
0.775	2232.	7157.	883.	1297.	0.2262	0.1378	1.641	0.623	3.207
0.800	2515.	7696.	911.	1339.	0.2283	0.1412	1.617	0.616	3.060
0.825	2819.	8259.	940.	1380.	0.2303	0.1443	1.596	0.611	2.929

STATIC PROCP PERFORMANCE

CURTISS CALIB PROCP RUN NU 117 WALLS DOWN

BETA=21.1 AF=93.0 CIA=13,000 NBL=4 TEMPR=530.57 SJGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFR	RTM/MP
700.	267.	1980.	0.422	0.2148	0.1048	2.0488	0.7577	7.4157
793.	409.	2615.	0.581	0.2183	0.1084	2.0137	0.7507	6.3936
897.	591.	3208.	0.541	0.2119	0.1103	1.9217	0.7059	5.4281
1000.	847.	3961.	0.603	0.2105	0.1141	1.8957	0.6758	4.6765
1095.	1167.	4974.	0.660	0.2161	0.1197	1.8050	0.6695	4.1765
1197.	1600.	5940.	0.721	0.2203	0.1256	1.7539	0.6570	3.7125
1294.	2182.	7210.	0.780	0.2289	0.1356	1.6876	0.6442	3.3043
1403.	2958.	8565.	0.845	0.2313	0.1452	1.6034	0.6153	2.8955

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, & PCINT 2ND ORDER. TH, &

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	328.	3020.	593.	871.	0.2115	0.1075	1.966	0.722	5.719
0.550	621.	3317.	621.	913.	0.2116	0.1100	1.924	0.706	5.362
0.575	726.	3636.	650.	954.	0.2122	0.1126	1.885	0.693	5.006
0.600	844.	3975.	678.	996.	0.2131	0.1151	1.851	0.682	4.710
0.625	956.	4298.	706.	1037.	0.2124	0.1154	1.841	0.677	4.497
0.650	1106.	4690.	734.	1079.	0.2142	0.1187	1.805	0.666	4.239
0.675	1258.	5133.	762.	1120.	0.2174	0.1205	1.804	0.671	4.081
0.700	1446.	5572.	791.	1162.	0.2195	0.1242	1.767	0.661	3.854
0.725	1655.	6035.	819.	1203.	0.2216	0.1279	1.732	0.651	3.647
0.750	1894.	6522.	847.	1245.	0.2238	0.1316	1.700	0.642	3.452
0.775	2135.	7033.	875.	1286.	0.2260	0.1351	1.673	0.634	3.295
0.800	2406.	7568.	904.	1328.	0.2282	0.1384	1.648	0.628	3.146
0.825	2697.	8127.	932.	1369.	0.2304	0.1415	1.628	0.624	3.013

STATIC PROCP PERFORMANCE

CURTISS CALIB RUN NO 138 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 24.0 IEMPR= 534.59 SJGMA=0.9489

***** RAW DATA POINTS *****

RPM	HP	TM	TMACH	RCI	RCP	RCI/CP	RPM	RTM/MP
727.	314.	2194.	0.436	0.2206	0.1100	2.0049	0.7515	6.9873
826.	479.	2949.	0.496	0.2219	0.1145	1.9390	0.7290	5.9478
920.	666.	3482.	0.552	0.2187	0.1152	1.8984	0.7084	5.2282
1021.	937.	4304.	0.613	0.2194	0.1186	1.8510	0.6919	4.5934
1121.	1259.	5254.	0.673	0.2222	0.1203	1.8478	0.6951	4.1765
1227.	1765.	6457.	0.736	0.2280	0.1287	1.7716	0.6750	3.6584
1320.	2305.	7554.	0.792	0.2304	0.1350	1.7074	0.6540	3.2772
1371.	2663.	8145.	0.823	0.2303	0.1392	1.6550	0.6338	3.0596

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 6 PCINT 2ND ORDER. TM, 6

PALM	HP	TM	IIPS	RPM	CI	CP	CI/CP	FM	TM/MP
0.525	554.	3140.	595.	875.	0.2181	0.1114	1.958	0.730	5.672
0.550	547.	3448.	624.	916.	0.2182	0.1131	1.929	0.719	5.334
0.575	752.	3779.	652.	958.	0.2198	0.1152	1.899	0.709	5.023
0.600	871.	4131.	681.	1000.	0.2197	0.1174	1.871	0.700	4.742
0.625	984.	4494.	709.	1041.	0.2203	0.1174	1.877	0.703	4.566
0.650	1132.	4887.	737.	1083.	0.2214	0.1200	1.845	0.693	4.317
0.675	1283.	5320.	766.	1125.	0.2235	0.1214	1.840	0.694	4.146
0.700	1466.	5755.	794.	1166.	0.2249	0.1244	1.807	0.684	3.926
0.725	1669.	6209.	822.	1204.	0.2261	0.1275	1.774	0.673	3.721
0.750	1892.	6683.	851.	1250.	0.2275	0.1305	1.743	0.663	3.533
0.775	2134.	7177.	879.	1291.	0.2297	0.1335	1.714	0.654	3.362
0.800	2397.	7690.	907.	1333.	0.2300	0.1363	1.688	0.646	3.208

STATIC PRCP PERFORMANCE

CURTISS CALIB PROP RUN NO 189 WALLS DOWN

BETA=21.1 AF= 92.0 DIA=13.000 NBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
706.	289.	2047.	0.424	0.2183	0.1106	1.9736	0.7358	7.0830
795.	514.	2516.	0.477	0.2200	0.1110	1.9927	0.7421	6.3188
896.	609.	3249.	0.538	0.2151	0.1140	1.8866	0.6982	5.3350
995.	858.	4093.	0.597	0.2197	0.1173	1.8734	0.7008	5.7704
1091.	1142.	4916.	0.655	0.2195	0.1184	1.8536	0.6930	4.3047
1191.	1555.	5929.	0.715	0.2222	0.1240	1.7923	0.6741	3.8129
1302.	2185.	7301.	0.781	0.2289	0.1333	1.7171	0.6556	3.3414
1397.	2854.	8503.	0.838	0.2316	0.1410	1.6427	0.6308	2.9793

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.525	556.	3128.	595.	875.	0.2172	0.1118	1.943	0.723	5.629
0.550	649.	3437.	624.	916.	0.2175	0.1135	1.916	0.713	5.299
0.575	753.	3765.	652.	958.	0.2180	0.1153	1.890	0.704	4.999
0.600	848.	4086.	681.	1000.	0.2173	0.1143	1.901	0.707	4.817
0.625	990.	4454.	709.	1041.	0.2183	0.1168	1.868	0.696	4.545
0.650	1128.	4845.	737.	1083.	0.2195	0.1195	1.836	0.687	4.296
0.675	1271.	5263.	766.	1125.	0.2211	0.1203	1.839	0.690	4.143
0.700	1454.	5692.	794.	1166.	0.2226	0.1234	1.804	0.679	3.918
0.725	1659.	6156.	822.	1208.	0.2242	0.1267	1.770	0.669	3.711
0.750	1894.	6636.	851.	1250.	0.2258	0.1300	1.738	0.659	3.523
0.775	2129.	7138.	879.	1291.	0.2275	0.1331	1.709	0.650	3.353
0.800	2375.	7642.	907.	1333.	0.2292	0.1362	1.683	0.643	3.199
0.825	2681.	8208.	936.	1375.	0.2309	0.1390	1.661	0.637	3.061

STATIC PRCP PERFORMANCE

CURTISS CALLID PRCP RUN NO 25 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 13.1 TEMPR= 515.27 SIGMA=0.9850

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCI/CP	RFM	RTP/MP
698.	272.	1918.	0.427	0.2092	0.1077	1.9426	0.7091	7.0515
799.	424.	2534.	0.489	0.2113	0.1119	1.8876	0.6924	5.9858
907.	635.	3299.	0.555	0.2131	0.1146	1.8598	0.6852	5.1953
1001.	871.	4060.	0.613	0.2145	0.1162	1.8452	0.6820	4.6613
1098.	1195.	5034.	0.671	0.2219	0.1216	1.8255	0.6863	4.2126
1194.	1639.	6120.	0.733	0.2264	0.1284	1.7655	0.6707	3.7340
1299.	2239.	7399.	0.794	0.2331	0.1376	1.6942	0.6527	3.3046
1397.	2767.	8607.	0.854	0.2344	0.1367	1.7151	0.6626	3.1106

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 PCINT 2ND ORDER. TM, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TM/MP
0.525	515.	2922.	594.	859.	0.2106	0.1096	1.922	0.704	5.671
0.550	604.	3227.	612.	899.	0.2120	0.1118	1.896	0.697	5.341
0.575	706.	3554.	640.	940.	0.2136	0.1143	1.870	0.690	5.038
0.600	819.	3904.	668.	981.	0.2155	0.1169	1.845	0.684	4.765
0.625	925.	4263.	696.	1022.	0.2169	0.1166	1.859	0.691	4.609
0.650	1068.	4656.	724.	1063.	0.2190	0.1198	1.829	0.683	4.359
0.675	1236.	5096.	751.	1104.	0.2223	0.1237	1.797	0.676	4.124
0.700	1407.	5531.	779.	1145.	0.2243	0.1263	1.777	0.671	3.932
0.725	1593.	5985.	807.	1186.	0.2263	0.1287	1.759	0.668	3.758
0.750	1794.	6458.	835.	1227.	0.2282	0.1309	1.743	0.664	3.601
0.775	2010.	6951.	863.	1267.	0.2300	0.1329	1.730	0.662	3.459
0.800	2241.	7462.	891.	1308.	0.2317	0.1347	1.720	0.661	3.331
0.825	2487.	7993.	918.	1349.	0.2334	0.1363	1.712	0.660	3.215
0.850	2748.	8543.	946.	1390.	0.2350	0.1377	1.706	0.660	3.109

STATIC PRCP PERFORMANCE

CURTISS CALIB PRCP RUN NO 28 WALLS DOWN

BETA=21.1 AE= 92.0 CIA=13.000 NBL=4 TEMPC=11.5 TEMPR=512.39 SIGMA=0.9930

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/MP
703.	294.	1933.	0.431	0.2079	0.1140	1.8243	0.6637	6.5748
807.	450.	2532.	0.595	0.2071	0.1153	1.7964	0.6524	5.6400
904.	641.	3222.	0.554	0.2095	0.1168	1.7934	0.6551	5.0265
999.	895.	4058.	0.613	0.2161	0.1209	1.7877	0.6632	4.5341
1097.	1209.	4954.	0.673	0.2188	0.1233	1.7741	0.6622	4.0976
1197.	1671.	6082.	0.734	0.2256	0.1312	1.7195	0.6518	3.6397
1304.	2279.	7351.	0.800	0.2298	0.1384	1.6601	0.6350	3.2255
1402.	3019.	8549.	0.860	0.2312	0.1475	1.5669	0.6012	2.8317

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** [MP, 6 PCINT 2ND ORDER. TH, 6

PACH	MP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	528.	2875.	583.	856.	0.2085	0.1132	1.842	0.671	5.450
0.550	617.	3178.	611.	897.	0.2099	0.1151	1.824	0.667	5.153
0.575	718.	3502.	638.	938.	0.2117	0.1173	1.804	0.663	4.876
0.600	832.	3845.	666.	979.	0.2136	0.1197	1.785	0.659	4.623
0.625	943.	4222.	694.	1019.	0.2160	0.1199	1.801	0.668	4.477
0.650	1085.	4610.	722.	1060.	0.2180	0.1227	1.777	0.662	4.248
0.675	1223.	5037.	749.	1101.	0.2209	0.1235	1.789	0.671	4.118
0.700	1400.	5462.	777.	1142.	0.2228	0.1267	1.758	0.662	3.903
0.725	1596.	5904.	805.	1182.	0.2245	0.1300	1.726	0.653	3.699
0.750	1813.	6362.	833.	1223.	0.2260	0.1334	1.694	0.643	3.509
0.775	2050.	6837.	860.	1264.	0.2275	0.1368	1.663	0.633	3.335
0.800	2308.	7328.	888.	1305.	0.2289	0.1399	1.635	0.624	3.176
0.825	2585.	7836.	915.	1345.	0.2301	0.1429	1.609	0.616	3.031
0.850	2883.	8361.	944.	1386.	0.2312	0.1458	1.586	0.609	2.900

STATIC PRCP PERFORMANCE

CURTISS CALIB PRCP RUN NO 34 WALLS DOWN

BETA=21.1 AF=92.0 CIA=13.000 N3L=4 TEMPC= 13.0 TEMPR= 515.09 SIGMA=0.9880

***** FAN DATA POINTS *****

RPM	HP	TH	INACH	RCT	RCP	RCT/CP	RFM	RTM/MP
712.	305.	2004.	0.435	0.2101	0.1138	1.8464	0.6754	6.5703
801.	436.	2560.	0.490	0.2121	0.1142	1.8562	0.6821	5.8716
901.	633.	3269.	0.551	0.2140	0.1165	1.8365	0.6780	5.1643
1000.	893.	4088.	0.612	0.2173	0.1203	1.8068	0.6721	4.5778
1100.	1222.	5040.	0.673	0.2214	0.1236	1.7906	0.6723	4.1244
1197.	1661.	6102.	0.732	0.2264	0.1304	1.7356	0.6589	3.6737
1300.	2278.	7458.	0.795	0.2345	0.1396	1.6798	0.6492	3.2739
1396.	2988.	8653.	0.854	0.2360	0.1479	1.5956	0.6185	2.8959

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TM/MP
0.525	531.	2945.	584.	858.	0.2124	0.1131	1.879	0.691	5.545
0.550	621.	3251.	612.	899.	0.2137	0.1149	1.860	0.686	5.239
0.575	723.	3578.	640.	940.	0.2151	0.1171	1.838	0.680	4.952
0.600	837.	3925.	668.	981.	0.2168	0.1194	1.816	0.675	4.690
0.625	946.	4273.	696.	1022.	0.2174	0.1193	1.823	0.678	4.519
0.650	1091.	4666.	723.	1063.	0.2196	0.1223	1.795	0.671	4.279
0.675	1233.	5099.	751.	1104.	0.2225	0.1235	1.802	0.678	4.136
0.700	1413.	5535.	779.	1145.	0.2245	0.1269	1.769	0.669	3.917
0.725	1614.	5992.	807.	1185.	0.2266	0.1305	1.737	0.660	3.712
0.750	1835.	6470.	835.	1226.	0.2287	0.1340	1.706	0.651	3.525
0.775	2078.	6971.	863.	1267.	0.2307	0.1375	1.677	0.643	3.354
0.800	2342.	7492.	890.	1308.	0.2327	0.1409	1.652	0.636	3.200
0.825	2626.	8036.	913.	1349.	0.2347	0.1440	1.629	0.630	3.060
0.850	2931.	8600.	946.	1390.	0.2366	0.1470	1.610	0.625	2.935

STATIC PROP PERFORMANCE

CURTISS CALIB RUN NO 204 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NAL=4 TEMPC= 0.5 TEMPR= 492.59 SIGMA=1.0380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTM/MP
701.	290.	2003.	0.438	0.2166	0.1134	1.9109	0.7098	6.9069
800.	427.	2400.	0.500	0.2159	0.1123	1.9226	0.7129	6.0890
902.	622.	3313.	0.564	0.2164	0.1141	1.8962	0.7039	5.3264
1002.	888.	4160.	0.627	0.2202	0.1187	1.8526	0.6938	4.6847
1102.	1242.	5171.	0.689	0.2263	0.1250	1.8108	0.6874	4.1634
1201.	1705.	6288.	0.751	0.2317	0.1325	1.7481	0.6715	3.6880
1297.	2305.	7550.	0.811	0.2385	0.1423	1.6767	0.6535	3.2755
1398.	3068.	8725.	0.874	0.2373	0.1512	1.5691	0.6099	2.8439

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.525	481.	2850.	571.	839.	0.2149	0.1096	1.952	0.726	5.921
0.550	563.	3141.	599.	879.	0.2159	0.1115	1.937	0.718	5.580
0.575	658.	3455.	626.	919.	0.2172	0.1139	1.906	0.709	5.253
0.600	765.	3790.	653.	959.	0.2188	0.1167	1.875	0.700	4.951
0.625	886.	4148.	680.	999.	0.2207	0.1196	1.846	0.692	4.680
0.650	1003.	4518.	707.	1039.	0.2223	0.1203	1.847	0.695	4.503
0.675	1157.	4922.	735.	1079.	0.2246	0.1239	1.813	0.685	4.255
0.700	1310.	5386.	762.	1119.	0.2285	0.1258	1.816	0.693	4.111
0.725	1500.	5824.	789.	1159.	0.2303	0.1297	1.776	0.680	3.882
0.750	1711.	6279.	816.	1199.	0.2320	0.1336	1.737	0.668	3.670
0.775	1942.	6749.	844.	1239.	0.2336	0.1374	1.700	0.656	3.476
0.800	2193.	7235.	871.	1279.	0.2350	0.1411	1.666	0.644	3.299
0.825	2465.	7737.	898.	1319.	0.2363	0.1446	1.634	0.634	3.139
0.850	2757.	8255.	925.	1359.	0.2375	0.1479	1.606	0.625	2.994

STATIC PROP PERFORMANCE

CURTISS CALIB RUN NO 205 WALLS DOWN

BETA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 0. TEMPR= 491.69 SIGMA=1.0420

***** PAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCY/CP	RFM	RTM/MP
703.	277.	1978.	0.440	0.2127	0.1074	1.9813	0.7292	7.1408
802.	415.	2582.	0.502	0.2134	0.1083	1.9694	0.7259	6.2217
906.	603.	3264.	0.567	0.2113	0.1092	1.9356	0.7101	5.4129
1003.	839.	4090.	0.628	0.2161	0.1118	1.9321	0.7167	4.8807
1105.	1181.	5146.	0.692	0.2240	0.1179	1.9003	0.7177	4.3573
1199.	1635.	6317.	0.751	0.2335	0.1277	1.8283	0.7051	3.8636
1300.	2227.	7565.	0.814	0.2379	0.1365	1.7429	0.6784	3.3969
1394.	2965.	8717.	0.875	0.2371	0.1461	1.6222	0.6303	2.9400

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	452.	2770.	571.	839.	0.2093	0.1032	2.028	0.740	6.125
0.550	528.	3054.	598.	879.	0.2103	0.1049	2.005	0.734	5.782
0.575	617.	3365.	625.	919.	0.2119	0.1073	1.976	0.726	5.449
0.600	720.	3702.	652.	959.	0.2141	0.1101	1.945	0.718	5.142
0.625	836.	4066.	680.	998.	0.2168	0.1130	1.918	0.712	4.866
0.650	946.	4455.	707.	1039.	0.2196	0.1138	1.930	0.722	4.710
0.675	1093.	4863.	734.	1078.	0.2223	0.1173	1.894	0.713	4.451
0.700	1240.	5352.	761.	1118.	0.2275	0.1194	1.906	0.725	4.317
0.725	1423.	5798.	788.	1158.	0.2297	0.1234	1.862	0.712	4.074
0.750	1627.	6258.	816.	1198.	0.2317	0.1274	1.819	0.699	3.846
0.775	1852.	6731.	843.	1239.	0.2334	0.1314	1.776	0.685	3.635
0.800	2097.	7219.	870.	1278.	0.2349	0.1353	1.736	0.672	3.442
0.825	2353.	7721.	897.	1318.	0.2362	0.1390	1.700	0.659	3.268
0.850	2649.	8237.	924.	1359.	0.2374	0.1425	1.666	0.648	3.109
0.875	2956.	8766.	951.	1398.	0.2384	0.1458	1.636	0.637	2.965

STATIC PROCP PERFORMANCE

CURTISS CALIB RUN NO 205 WALLS DOWN

BETA=21.1 AF=93.0 CIA=13.000 NBL=4 TEMPC= 0. TEMPR=421.69 SIGMA=1.0420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
709.	282.	1987.	0.444	0.2101	0.1066	1.9717	0.7212	7.0461
802.	421.	2611.	0.502	0.2158	0.1099	1.9631	0.7277	6.2019
904.	608.	3222.	0.566	0.2161	0.1108	1.9494	0.7231	5.4638
1003.	867.	4186.	0.628	0.2212	0.1157	1.9113	0.7173	4.8281
1105.	1201.	5184.	0.692	0.2257	0.1199	1.8825	0.7136	4.3164
1199.	1635.	6317.	0.751	0.2335	0.1277	1.8283	0.7051	3.8636
1300.	2232.	7584.	0.814	0.2385	0.1368	1.7434	0.6794	3.3978
1305.	2283.	7680.	0.817	0.2397	0.1383	1.7327	0.6769	3.3640
1405.	3006.	8813.	0.879	0.2373	0.1460	1.6258	0.6320	2.9318

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	456.	2826.	571.	839.	0.2135	0.1064	2.006	0.740	6.061
0.550	545.	3123.	598.	879.	0.2150	0.1082	1.987	0.735	5.729
0.575	636.	3442.	625.	919.	0.2168	0.1106	1.961	0.729	5.409
0.600	740.	3783.	652.	959.	0.2188	0.1131	1.934	0.722	5.113
0.625	855.	4145.	680.	998.	0.2210	0.1157	1.910	0.716	4.846
0.650	965.	4518.	707.	1038.	0.2227	0.1161	1.919	0.722	4.681
0.675	1111.	4922.	734.	1078.	0.2250	0.1193	1.885	0.714	4.430
0.700	1262.	5354.	761.	1118.	0.2275	0.1215	1.872	0.713	4.242
0.725	1443.	5806.	789.	1158.	0.2301	0.1251	1.840	0.704	4.024
0.750	1643.	6282.	816.	1198.	0.2326	0.1286	1.809	0.696	3.825
0.775	1854.	6801.	843.	1238.	0.2358	0.1315	1.793	0.695	3.669
0.800	2096.	7281.	870.	1278.	0.2369	0.1352	1.752	0.681	3.474
0.825	2359.	7769.	897.	1318.	0.2377	0.1388	1.713	0.666	3.293
0.850	2645.	8266.	924.	1358.	0.2383	0.1422	1.675	0.652	3.126
0.875	2951.	8771.	951.	1398.	0.2386	0.1455	1.640	0.639	2.972

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 223 WALLS DOWN

BEIA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 7.5 TEMPR= 505.19 SIGMA=1.0090

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
750.	362.	2250.	0.463	0.2126	0.1156	1.8398	0.6770	6.2155
855.	546.	2923.	0.528	0.2125	0.1176	1.8065	0.6646	5.3535
949.	758.	3647.	0.586	0.2152	0.1194	1.8021	0.6672	4.8113
1050.	1056.	4529.	0.648	0.2183	0.1228	1.7773	0.6627	4.2888
1147.	1433.	5500.	0.708	0.2222	0.1279	1.7375	0.6536	3.8381
1251.	1977.	6749.	0.773	0.2292	0.1360	1.6855	0.6439	3.4138
1353.	2678.	8047.	0.836	0.2336	0.1456	1.6046	0.6189	3.0049
1403.	3084.	8642.	0.866	0.2333	0.1504	1.5517	0.5981	2.8022

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

PACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	519.	2882.	579.	850.	0.2120	0.1137	1.863	0.685	5.554
0.550	602.	3173.	606.	891.	0.2126	0.1147	1.853	0.682	5.273
0.575	699.	3486.	634.	931.	0.2137	0.1166	1.833	0.676	4.988
0.600	810.	3820.	661.	972.	0.2151	0.1189	1.809	0.670	4.718
0.625	935.	4177.	689.	1012.	0.2168	0.1215	1.784	0.663	4.467
0.650	1051.	4555.	716.	1053.	0.2185	0.1214	1.800	0.671	4.333
0.675	1207.	4954.	744.	1093.	0.2204	0.1245	1.770	0.663	4.103
0.700	1383.	5376.	772.	1134.	0.2224	0.1278	1.740	0.655	3.888
0.725	1562.	5829.	799.	1174.	0.2248	0.1300	1.730	0.654	3.733
0.750	1777.	6288.	827.	1214.	0.2266	0.1336	1.696	0.644	3.538
0.775	2015.	6767.	854.	1255.	0.2283	0.1373	1.663	0.634	3.358
0.800	2276.	7264.	882.	1295.	0.2301	0.1410	1.632	0.625	3.192
0.825	2558.	7782.	909.	1336.	0.2317	0.1445	1.604	0.616	3.042
0.850	2863.	8318.	937.	1376.	0.2334	0.1478	1.579	0.609	2.906

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 224 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 7.5 TEMPR= 505.19 SIGMA=1.0090

***** PAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
760.	365.	2349.	0.469	0.2161	0.1123	1.9251	0.7142	6.4180
857.	535.	2933.	0.529	0.2123	0.1145	1.8543	0.6817	5.4822
947.	721.	3568.	0.585	0.2115	0.1143	1.8496	0.6787	4.9487
1047.	998.	4440.	0.647	0.2153	0.1171	1.8384	0.6807	4.4489
1145.	1361.	5411.	0.707	0.2194	0.1221	1.7967	0.6715	3.9758
1256.	1938.	6798.	0.776	0.2290	0.1317	1.7389	0.6641	3.5077
1350.	2570.	8017.	0.834	0.2338	0.1407	1.6621	0.6413	3.1195
1407.	3045.	8701.	0.869	0.2336	0.1472	1.5868	0.6120	2.8575

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	500.	2870.	579.	850.	0.2111	0.1097	1.924	0.705	5.735
0.550	577.	3140.	606.	891.	0.2104	0.1099	1.915	0.701	5.447
0.575	667.	3437.	634.	931.	0.2107	0.1113	1.893	0.693	5.151
0.600	772.	3761.	661.	972.	0.2117	0.1134	1.867	0.686	4.868
0.625	892.	4111.	689.	1012.	0.2133	0.1159	1.840	0.678	4.607
0.650	1004.	4488.	716.	1053.	0.2153	0.1159	1.857	0.688	4.471
0.675	1154.	4897.	744.	1093.	0.2174	0.1190	1.827	0.680	4.235
0.700	1324.	5313.	772.	1134.	0.2198	0.1224	1.796	0.672	4.014
0.725	1496.	5787.	799.	1174.	0.2231	0.1245	1.793	0.676	3.869
0.750	1708.	6253.	827.	1214.	0.2253	0.1284	1.755	0.665	3.662
0.775	1943.	6740.	854.	1255.	0.2275	0.1324	1.719	0.654	3.470
0.800	2201.	7248.	882.	1295.	0.2295	0.1363	1.684	0.644	3.294
0.825	2482.	7776.	909.	1336.	0.2316	0.1402	1.652	0.634	3.133
0.850	2786.	8324.	937.	1376.	0.2335	0.1439	1.623	0.626	2.988

STATIC PROP PERFORMANCE

CURTISS CALIB RUN NO 225 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 7.5 TEMPR= 505.19 SIGMA=1.0090

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
748.	369.	2259.	0.462	0.2146	0.1187	1.8073	0.6681	6.1220
855.	543.	2933.	0.528	0.2132	0.1170	1.8227	0.6717	5.4015
950.	759.	3617.	0.587	0.2130	0.1192	1.7868	0.6581	4.7655
1046.	1032.	4479.	0.646	0.2176	0.1214	1.7918	0.6669	4.3401
1148.	1430.	5510.	0.709	0.2222	0.1273	1.7458	0.6567	3.8531
1249.	1945.	6679.	0.771	0.2276	0.1344	1.6928	0.6444	3.4339
1348.	2658.	8047.	0.832	0.2354	0.1461	1.6107	0.6236	3.0275
1402.	3071.	8671.	0.866	0.2345	0.1501	1.5624	0.6037	2.8235

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	521.	2885.	579.	850.	0.2122	0.1141	1.859	0.683	5.539
0.550	602.	3171.	606.	891.	0.2124	0.1147	1.852	0.681	5.269
0.575	697.	3479.	634.	931.	0.2133	0.1162	1.835	0.676	4.992
0.600	806.	3809.	661.	972.	0.2145	0.1183	1.812	0.670	4.726
0.625	929.	4162.	689.	1012.	0.2160	0.1207	1.789	0.664	4.479
0.650	1039.	4523.	716.	1053.	0.2170	0.1200	1.808	0.672	4.353
0.675	1195.	4923.	744.	1093.	0.2190	0.1232	1.777	0.664	4.120
0.700	1371.	5349.	772.	1134.	0.2213	0.1267	1.746	0.655	3.902
0.725	1550.	5816.	799.	1174.	0.2243	0.1290	1.738	0.657	3.752
0.750	1767.	6283.	827.	1214.	0.2264	0.1328	1.704	0.647	3.556
0.775	2007.	6771.	854.	1255.	0.2285	0.1367	1.671	0.637	3.374
0.800	2270.	7279.	882.	1295.	0.2305	0.1406	1.640	0.628	3.207
0.825	2556.	7809.	909.	1336.	0.2326	0.1443	1.611	0.620	3.056
0.850	2865.	8360.	937.	1376.	0.2345	0.1479	1.585	0.613	2.918

STATIC PRCP PERFORMANCE

CURTISS CALIB PRCP RUN NO 226 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 3.0 TEMPR= 497.09 SIGMA=1.0200

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
712.	300.	2088.	0.443	0.2189	0.1119	1.9558	0.7303	6.9600
801.	438.	2667.	0.499	0.2209	0.1148	1.9250	0.7220	6.0890
906.	653.	3402.	0.564	0.2203	0.1182	1.8629	0.6977	5.2098
999.	897.	4127.	0.622	0.2198	0.1212	1.8141	0.6787	4.6009
1100.	1254.	5167.	0.685	0.2270	0.1269	1.7889	0.6801	4.1204
1195.	1682.	6157.	0.744	0.2292	0.1327	1.7265	0.6595	3.6605
1298.	2325.	7510.	0.808	0.2369	0.1432	1.6548	0.6427	3.2301
1395.	3064.	8667.	0.868	0.2367	0.1520	1.5574	0.6047	2.8287

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	504.	2926.	574.	843.	0.2187	0.1132	1.931	0.721	5.803
0.550	590.	3219.	601.	883.	0.2192	0.1153	1.902	0.711	5.455
0.575	688.	3532.	629.	924.	0.2201	0.1177	1.870	0.700	5.131
0.600	799.	3965.	656.	964.	0.2211	0.1202	1.840	0.691	4.838
0.625	900.	4195.	683.	1004.	0.2212	0.1196	1.846	0.693	4.659
0.650	1040.	4570.	711.	1044.	0.2228	0.1230	1.811	0.682	4.396
0.675	1195.	4968.	738.	1084.	0.2245	0.1263	1.779	0.673	4.156
0.700	1348.	5413.	765.	1124.	0.2275	0.1277	1.783	0.679	4.017
0.725	1541.	5848.	793.	1165.	0.2292	0.1314	1.745	0.667	3.796
0.750	1755.	6302.	820.	1205.	0.2308	0.1351	1.708	0.655	3.592
0.775	1990.	6775.	847.	1245.	0.2323	0.1389	1.673	0.643	3.405
0.800	2246.	7266.	875.	1285.	0.2339	0.1425	1.641	0.633	3.235
0.825	2523.	7776.	902.	1325.	0.2353	0.1460	1.612	0.624	3.082
0.850	2821.	8305.	929.	1365.	0.2368	0.1493	1.586	0.616	2.944

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 227 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 2.8 TEMPR= 496.73 SIGMA=1.0220

***** FAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
703.	295.	2045.	0.438	0.2199	0.1105	1.9909	0.7451	7.1754
803.	438.	2652.	0.500	0.2186	0.1139	1.9189	0.7160	6.0548
899.	630.	3307.	0.560	0.2175	0.1168	1.8625	0.6931	5.2492
1002.	910.	4188.	0.624	0.2217	0.1218	1.8200	0.6839	4.6022
1100.	1231.	5068.	0.685	0.2226	0.1245	1.7874	0.6730	4.1170
1197.	1713.	6262.	0.745	0.2323	0.1345	1.7270	0.6642	3.6556
1301.	2306.	7436.	0.810	0.2335	0.1410	1.6558	0.6385	3.2246
1405.	3133.	8787.	0.875	0.2366	0.1521	1.5553	0.6037	2.8047

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	495.	2891.	574.	843.	0.2162	0.1113	1.942	0.721	5.837
0.550	581.	3179.	601.	883.	0.2167	0.1135	1.908	0.709	5.475
0.575	679.	3491.	628.	923.	0.2176	0.1162	1.873	0.697	5.140
0.600	790.	3825.	656.	963.	0.2190	0.1190	1.840	0.687	4.840
0.625	899.	4191.	683.	1004.	0.2212	0.1193	1.846	0.693	4.660
0.650	1037.	4564.	710.	1044.	0.2227	0.1229	1.813	0.683	4.400
0.675	1191.	4959.	738.	1084.	0.2244	0.1260	1.781	0.673	4.163
0.700	1340.	5391.	765.	1124.	0.2268	0.1271	1.785	0.678	4.024
0.725	1532.	5824.	792.	1164.	0.2284	0.1307	1.747	0.666	3.803
0.750	1744.	6276.	820.	1204.	0.2300	0.1345	1.710	0.655	3.598
0.775	1977.	6745.	847.	1244.	0.2315	0.1382	1.676	0.643	3.411
0.800	2231.	7232.	874.	1285.	0.2329	0.1417	1.644	0.633	3.242
0.825	2505.	7736.	902.	1325.	0.2343	0.1451	1.615	0.624	3.089
0.850	2800.	8259.	929.	1365.	0.2356	0.1483	1.589	0.616	2.950
0.875	3115.	8800.	956.	1405.	0.2369	0.1512	1.567	0.608	2.825

STATIC PERFORMANCE

CURTIS CALIB RUN 40 224 FALLS DOWN

BETA=21.1 α = 92.7 β =13.051 β L=4 β EMPC= 2.8 β EMPR= 496.73 β SIGMA=1.0220

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
715.	301.	2594.	0.445	0.2177	0.1109	1.9632	0.7310	6.9568
790.	429.	2642.	0.497	0.2235	0.1137	1.9397	0.7268	6.1585
898.	629.	3317.	0.559	0.2186	0.1170	1.8690	0.6974	5.2734
992.	871.	4070.	0.618	0.2198	0.1202	1.8295	0.6845	4.6728
1123.	1235.	5088.	0.687	0.2223	0.1239	1.7935	0.6748	4.1198
1197.	1686.	6164.	0.745	0.2287	0.1324	1.7272	0.6591	3.6560
1300.	2246.	7564.	0.810	0.2379	0.1438	1.6543	0.6439	3.2242
1395.	3053.	8611.	0.869	0.2352	0.1514	1.5529	0.6010	2.8205

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP
0.525	497.	2905.	574.	843.	0.2173	0.1118	1.944	0.723	5.844
0.550	581.	3194.	601.	883.	0.2176	0.1136	1.915	0.713	5.494
0.575	678.	3502.	628.	923.	0.2183	0.1160	1.883	0.702	5.166
0.600	787.	3830.	656.	963.	0.2193	0.1185	1.851	0.692	4.867
0.625	883.	4142.	683.	1004.	0.2186	0.1176	1.859	0.694	4.693
0.650	1021.	4515.	710.	1044.	0.2203	0.1210	1.821	0.682	4.421
0.675	1178.	4915.	738.	1084.	0.2224	0.1246	1.785	0.672	4.174
0.700	1333.	5374.	765.	1124.	0.2261	0.1264	1.789	0.679	4.032
0.725	1526.	5809.	792.	1164.	0.2278	0.1303	1.749	0.666	3.806
0.750	1741.	6263.	820.	1204.	0.2295	0.1342	1.710	0.654	3.597
0.775	1977.	6737.	847.	1244.	0.2312	0.1382	1.673	0.642	3.407
0.800	2235.	7229.	874.	1285.	0.2329	0.1420	1.640	0.632	3.235
0.825	2513.	7742.	902.	1325.	0.2345	0.1456	1.611	0.622	3.080
0.850	2813.	8273.	929.	1365.	0.2360	0.1490	1.584	0.614	2.941

STATIC PROP PERFORMANCE

CURTISS CALIB RUN NO 249 WALLS DOWN

BETA=21.1 AF= 93.0 CIA=13.00 NBL=4 TEMPC= 0.5 TEMPR= 492.59 SIGMA=1.0310

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
715.	298.	1998.	0.447	0.2077	0.1098	1.8920	0.6881	6.7047
802.	437.	2590.	0.502	0.2140	0.1141	1.8760	0.6926	5.9268
907.	640.	3307.	0.564	0.2160	0.1174	1.8395	0.6823	5.1672
998.	887.	4113.	0.624	0.2195	0.1202	1.8265	0.6828	4.6370
1100.	1233.	5082.	0.688	0.2232	0.1247	1.7894	0.6747	4.1217
1195.	1699.	6208.	0.747	0.2311	0.1341	1.7233	0.6610	3.6539
1296.	2291.	7439.	0.811	0.2354	0.1417	1.6609	0.6430	3.2471
1399.	3092.	8681.	0.875	0.2357	0.1521	1.5502	0.6006	2.8076

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	488.	2818.	571.	839.	0.2126	0.1111	1.914	0.704	5.776
0.550	571.	3116.	599.	870.	0.2141	0.1130	1.894	0.699	5.457
0.575	667.	3434.	626.	919.	0.2159	0.1156	1.868	0.693	5.148
0.600	776.	3772.	653.	959.	0.2178	0.1183	1.841	0.686	4.862
0.625	881.	4122.	680.	999.	0.2193	0.1189	1.846	0.690	4.679
0.650	1017.	4498.	707.	1039.	0.2213	0.1220	1.814	0.681	4.423
0.675	1169.	4897.	735.	1079.	0.2234	0.1253	1.784	0.673	4.187
0.700	1318.	5344.	762.	1119.	0.2267	0.1266	1.791	0.681	4.055
0.725	1507.	5776.	789.	1159.	0.2284	0.1303	1.753	0.669	3.832
0.750	1718.	6226.	816.	1199.	0.2301	0.1341	1.715	0.657	3.624
0.775	1949.	6691.	844.	1239.	0.2316	0.1379	1.679	0.645	3.433
0.800	2201.	7174.	871.	1279.	0.2330	0.1416	1.646	0.634	3.259
0.825	2474.	7672.	898.	1319.	0.2343	0.1451	1.615	0.624	3.102
0.850	2767.	8188.	925.	1359.	0.2356	0.1484	1.587	0.615	2.959

STATIC PROCP PERFORMANCE

CURTISS CALIP RUN VC 250 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= 0.5 TEMPR= 492.59 SIGMA=1.0310

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
712.	297.	2008.	0.445	0.2135	0.1138	1.8999	0.6956	6.7609
808.	443.	2599.	0.505	0.2116	0.1131	1.8709	0.6868	5.8668
903.	641.	3307.	0.565	0.2156	0.1172	1.8387	0.6812	5.1591
998.	876.	4074.	0.624	0.2174	0.1187	1.8319	0.6816	4.6507
1098.	1222.	5044.	0.687	0.2224	0.1243	1.7888	0.6731	4.1277
1198.	1694.	6217.	0.749	0.2302	0.1327	1.7353	0.6644	3.6700
1294.	2269.	7401.	0.809	0.2349	0.1410	1.6658	0.6443	3.2618
1397.	3052.	8613.	0.874	0.2346	0.1507	1.5560	0.6014	2.8221

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	486.	2804.	571.	839.	0.2115	0.1167	1.911	0.701	5.768
0.550	568.	3096.	599.	879.	0.2127	0.1125	1.890	0.696	5.445
0.575	664.	3409.	626.	919.	0.2143	0.1150	1.864	0.689	5.138
0.600	771.	3744.	653.	959.	0.2162	0.1176	1.838	0.682	4.854
0.625	873.	4096.	680.	999.	0.2180	0.1178	1.850	0.689	4.690
0.650	1008.	4473.	707.	1039.	0.2201	0.1209	1.820	0.681	4.437
0.675	1160.	4872.	735.	1079.	0.2223	0.1242	1.790	0.673	4.202
0.700	1308.	5322.	762.	1119.	0.2258	0.1256	1.798	0.682	4.069
0.725	1496.	5754.	789.	1159.	0.2275	0.1293	1.760	0.670	3.846
0.750	1705.	6202.	816.	1199.	0.2292	0.1331	1.722	0.658	3.638
0.775	1935.	6666.	844.	1239.	0.2307	0.1369	1.685	0.646	3.446
0.800	2185.	7147.	871.	1279.	0.2321	0.1406	1.651	0.635	3.271
0.825	2456.	7644.	898.	1319.	0.2335	0.1441	1.620	0.625	3.112
0.850	2748.	8158.	925.	1359.	0.2347	0.1474	1.593	0.616	2.969

STATIC PROCP PERFORMANCE

CURTISS CALIB RUN NO 251 KALLS DOWN

PEIA=21.1 AF= 93.0 LIA=13.000 NDL=4 TEMPC= 0.5 TEMPR= 492.59 SIGMA=1.0310

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
756.	362.	2299.	0.473	0.2129	0.1128	1.8867	0.6946	6.3232
853.	530.	2939.	0.533	0.2147	0.1150	1.8669	0.6933	5.5453
949.	742.	3647.	0.593	0.2152	0.1169	1.8410	0.6815	4.9151
1046.	1022.	4520.	0.654	0.2196	0.1203	1.8258	0.6827	4.4227
1145.	1421.	5548.	0.716	0.2249	0.1275	1.7644	0.6677	3.9043
1246.	1968.	6809.	0.779	0.2331	0.1370	1.7015	0.6555	3.4599
1352.	2694.	8109.	0.846	0.2358	0.1468	1.6062	0.6224	3.0100
1431.	3248.	9020.	0.895	0.2341	0.1539	1.5216	0.5875	2.6941

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	486.	2817.	571.	839.	0.2124	0.1105	1.922	0.707	5.801
0.550	561.	3098.	599.	879.	0.2129	0.1110	1.918	0.706	5.525
0.575	651.	3402.	626.	919.	0.2139	0.1128	1.897	0.700	5.228
0.600	756.	3731.	653.	959.	0.2155	0.1153	1.869	0.692	4.936
0.625	876.	4284.	680.	999.	0.2173	0.1182	1.838	0.684	4.661
0.650	1012.	4461.	707.	1039.	0.2195	0.1214	1.809	0.676	4.409
0.675	1143.	4868.	735.	1079.	0.2221	0.1224	1.815	0.682	4.260
0.700	1313.	5284.	762.	1119.	0.2242	0.1261	1.778	0.672	4.025
0.725	1489.	5765.	789.	1159.	0.2280	0.1287	1.771	0.675	3.871
0.750	1699.	6214.	816.	1199.	0.2296	0.1326	1.732	0.662	3.658
0.775	1930.	6676.	844.	1239.	0.2311	0.1366	1.692	0.649	3.459
0.800	2183.	7151.	871.	1279.	0.2323	0.1404	1.654	0.636	3.276
0.825	2458.	7639.	898.	1319.	0.2333	0.1442	1.618	0.624	3.128
0.850	2755.	8139.	925.	1359.	0.2342	0.1478	1.585	0.612	2.955
0.875	3073.	8653.	952.	1399.	0.2349	0.1511	1.555	0.601	2.815

STATIC PROP PERFORMANCE

CURTIS CALIB RUN NO 252 WALLS DOWN

PETA=21.1 AF= 93.0 CIA=13.000 JBL=4 TEMPC= -7.2 TEMPR= 479.09 SIGMA=1.0680

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
810.	347.	2603.	0.514	0.2109	0.0879	2.3981	0.8788	7.5014
904.	521.	3277.	0.573	0.2131	0.0950	2.2442	0.8267	6.2898
1001.	773.	4176.	0.635	0.2215	0.1038	2.1343	0.8016	5.4023
1097.	1075.	5050.	0.696	0.2230	0.1097	2.0339	0.7665	4.6977
1197.	1549.	6273.	0.759	0.2327	0.1216	1.9132	0.7365	4.0497
1295.	2125.	7491.	0.821	0.2374	0.1318	1.8018	0.7006	3.5252
1405.	2966.	8801.	0.891	0.2370	0.1440	1.6454	0.6392	2.9673

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	381.	2723.	564.	828.	0.2111	0.0903	2.3338	0.857	7.156
0.550	438.	3108.	590.	867.	0.2125	0.0903	2.353	0.865	6.873
0.575	511.	3314.	617.	907.	0.2142	0.0923	2.320	0.857	6.484
0.600	621.	3643.	644.	946.	0.2163	0.0956	2.263	0.840	6.059
0.625	708.	3993.	671.	986.	0.2185	0.0995	2.195	0.819	5.643
0.650	831.	4365.	698.	1025.	0.2208	0.1038	2.126	0.797	5.256
0.675	970.	4759.	725.	1064.	0.2232	0.1083	2.061	0.777	4.906
0.700	1106.	5212.	751.	1104.	0.2273	0.1107	2.053	0.781	4.712
0.725	1280.	5640.	778.	1143.	0.2293	0.1154	1.987	0.759	4.404
0.750	1475.	6282.	805.	1183.	0.2311	0.1201	1.924	0.738	4.123
0.775	1691.	6538.	832.	1222.	0.2327	0.1247	1.866	0.718	3.868
0.800	1926.	7009.	859.	1262.	0.2341	0.1292	1.812	0.700	3.639
0.825	2182.	7494.	886.	1301.	0.2353	0.1335	1.763	0.683	3.434
0.850	2459.	7993.	912.	1340.	0.2364	0.1375	1.720	0.667	3.251
0.875	2755.	8506.	939.	1380.	0.2375	0.1412	1.681	0.654	3.087

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 253 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.000 NBL=4 TEMPC= -7.0 TEMPR= 479.03 SIGMA=1.0680

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
801.	338.	2584.	0.508	0.2141	0.0886	2.4169	0.8923	7.6450
921.	524.	3277.	0.571	0.2145	0.0965	2.2239	0.8220	6.2538
1000.	762.	4101.	0.634	0.2180	0.1026	2.1241	0.7914	5.3819
1098.	1076.	5056.	0.696	0.2229	0.1095	2.0363	0.7672	4.6989
1207.	1595.	6367.	0.765	0.2323	0.1221	1.9016	0.7314	3.9918
1298.	2137.	7509.	0.823	0.2369	0.1316	1.8001	0.6991	3.5138
1396.	2894.	8689.	0.885	0.2370	0.1433	1.6543	0.6426	3.0024

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	383.	2754.	564.	828.	0.2135	0.0908	2.351	0.867	7.194
0.550	439.	3023.	590.	867.	0.2136	0.0906	2.357	0.869	6.884
0.575	512.	3316.	617.	907.	0.2143	0.0925	2.318	0.857	6.478
0.600	601.	3633.	644.	946.	0.2157	0.0955	2.257	0.836	6.044
0.625	707.	3973.	671.	986.	0.2174	0.0994	2.187	0.814	5.623
0.650	829.	4338.	698.	1025.	0.2195	0.1036	2.118	0.792	5.235
0.675	967.	4727.	725.	1064.	0.2218	0.1080	2.053	0.772	4.888
0.700	1093.	5178.	751.	1104.	0.2259	0.1107	2.053	0.779	4.712
0.725	1272.	5605.	778.	1143.	0.2279	0.1147	1.988	0.757	4.405
0.750	1467.	6049.	805.	1183.	0.2298	0.1194	1.925	0.736	4.123
0.775	1682.	6509.	832.	1222.	0.2316	0.1241	1.866	0.717	3.869
0.800	1919.	6986.	859.	1262.	0.2333	0.1287	1.813	0.699	3.641
0.825	2176.	7479.	886.	1301.	0.2349	0.1331	1.765	0.682	3.437
0.850	2454.	7989.	912.	1340.	0.2363	0.1372	1.722	0.668	3.255
0.875	2753.	8515.	939.	1380.	0.2377	0.1411	1.684	0.655	3.093

STATIC PROP PERFORMANCE

CURTIS CALIB RUN NO 254 WALLS DOWN

BETA=21.1 AF= 93. LIA=13.000 NBL=4 TEMPC= -7.0 TEMPR= 479.09 SIGMA=1.0680

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
796.	336.	2528.	0.505	0.2121	0.0897	2.3637	0.8686	7.5238
899.	523.	2295.	0.570	0.2168	0.0969	2.2361	0.8308	6.3021
1009.	785.	4176.	0.640	0.2180	0.1029	2.1185	0.7893	5.3197
1095.	1234.	5075.	0.694	0.2250	0.1112	2.0233	0.7658	4.6817
1158.	1573.	6230.	0.760	0.2344	0.1230	1.9264	0.7366	4.0318
1302.	2157.	7547.	0.826	0.2366	0.1316	1.7980	0.6979	3.4988
1402.	2552.	8801.	0.889	0.2380	0.1443	1.6497	0.6422	2.9814

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 F

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	383.	2742.	564.	828.	0.2126	0.0909	2.339	0.861	7.159
0.550	442.	3027.	590.	867.	0.2139	0.0913	2.342	0.864	6.843
0.575	518.	3333.	617.	907.	0.2155	0.0935	2.304	0.854	6.439
0.600	609.	3661.	644.	946.	0.2174	0.0968	2.245	0.835	6.012
0.625	716.	4010.	671.	986.	0.2194	0.1007	2.178	0.814	5.599
0.650	839.	4380.	698.	1025.	0.2216	0.1050	2.111	0.793	5.219
0.675	978.	4772.	725.	1064.	0.2238	0.1092	2.049	0.774	4.877
0.700	1112.	5211.	751.	1104.	0.2273	0.1113	2.042	0.777	4.687
0.725	1286.	5637.	778.	1143.	0.2292	0.1159	1.978	0.756	4.384
0.750	1481.	6080.	805.	1183.	0.2310	0.1205	1.917	0.735	4.106
0.775	1696.	6539.	832.	1222.	0.2327	0.1251	1.860	0.716	3.857
0.800	1931.	7014.	859.	1262.	0.2342	0.1295	1.809	0.699	3.633
0.825	2186.	7505.	886.	1301.	0.2357	0.1337	1.763	0.683	3.433
0.850	2462.	8012.	912.	1340.	0.2370	0.1377	1.722	0.669	3.254
0.875	2758.	8535.	939.	1380.	0.2383	0.1414	1.685	0.656	3.094

STATIC PROP PERFORMANCE

CURTISS CALIF RUN NO 258 WALLS DOWN

BEIA=21.1 AF= 93.0 DIA=13.000 NREL=4 TEMPC= 4.0 TEMPR= 498.89 SIGMA=1.0200

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
801.	426.	2627.	0.498	0.2176	0.1116	1.9495	0.7257	6.1667
899.	611.	3314.	0.559	0.2179	0.1132	1.9245	0.7169	5.4239
1006.	869.	4157.	0.625	0.2183	0.1149	1.8993	0.7082	4.7837
1097.	1193.	5098.	0.682	0.2252	0.1217	1.8502	0.7006	4.2733
1195.	1619.	6176.	0.743	0.2299	0.1278	1.7992	0.6884	3.8147
1313.	2318.	7608.	0.816	0.2346	0.1379	1.7009	0.6573	3.2821
1397.	2923.	8431.	0.868	0.2296	0.1444	1.5903	0.6081	2.8844

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	495.	2912.	575.	845.	0.2168	0.1105	1.963	0.729	5.886
0.550	563.	3200.	602.	885.	0.2171	0.1093	1.986	0.739	5.686
0.575	647.	3510.	630.	925.	0.2179	0.1100	1.980	0.736	5.422
0.600	748.	3842.	657.	966.	0.2190	0.1120	1.956	0.731	5.134
0.625	866.	4196.	685.	1006.	0.2205	0.1146	1.923	0.721	4.846
0.650	1000.	4571.	712.	1046.	0.2221	0.1177	1.867	0.710	4.572
0.675	1150.	4969.	739.	1086.	0.2238	0.1209	1.852	0.699	4.320
0.700	1304.	5430.	767.	1126.	0.2274	0.1229	1.851	0.704	4.163
0.725	1489.	5853.	794.	1167.	0.2286	0.1263	1.810	0.690	3.930
0.750	1694.	6289.	822.	1207.	0.2295	0.1297	1.769	0.676	3.713
0.775	1917.	6736.	849.	1247.	0.2302	0.1331	1.730	0.662	3.514
0.800	2159.	7195.	876.	1287.	0.2307	0.1363	1.693	0.649	3.332
0.825	2421.	7666.	904.	1328.	0.2312	0.1393	1.659	0.637	3.167
0.850	2701.	8150.	931.	1368.	0.2315	0.1422	1.629	0.625	3.017

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 259 WALLS DOWN

BETA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 5.0 TEMPR= 500.69 SIGMA=1.0200

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	RTH/HP
830.	472.	2765.	0.515	0.2133	0.1112	1.9190	0.7073	5.8581
529.	687.	3559.	0.576	0.2192	0.1154	1.8995	0.7096	5.1805
1026.	541.	4392.	0.636	0.2218	0.1173	1.8900	0.7102	4.6674
1124.	1297.	5353.	0.697	0.2252	0.1223	1.8409	0.6971	4.11496
1223.	1776.	6549.	0.759	0.2327	0.1307	1.7799	0.6852	3.6875
1322.	2382.	7706.	0.820	0.2343	0.1388	1.6880	0.6521	3.2351
1381.	2797.	8314.	0.857	0.2317	0.1430	1.6202	0.6223	2.9725

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	509.	2889.	576.	846.	0.2144	0.1131	1.895	0.700	5.673
0.550	575.	3196.	634.	887.	0.2161	0.1111	1.946	0.722	5.560
0.575	657.	3522.	631.	927.	0.2178	0.1112	1.960	0.730	5.357
0.600	757.	3866.	658.	967.	0.2196	0.1127	1.950	0.729	5.107
0.625	874.	4230.	686.	1008.	0.2215	0.1150	1.925	0.723	4.841
0.650	1008.	4613.	713.	1048.	0.2233	0.1179	1.893	0.714	4.578
0.675	1159.	5015.	741.	1088.	0.2251	0.1211	1.859	0.704	4.329
0.700	1314.	5460.	768.	1128.	0.2279	0.1231	1.851	0.705	4.156
0.725	1498.	5890.	796.	1169.	0.2292	0.1264	1.813	0.693	3.931
0.750	1733.	6333.	823.	1209.	0.2303	0.1297	1.775	0.680	3.719
0.775	1927.	6789.	850.	1249.	0.2312	0.1331	1.737	0.667	3.524
0.800	2171.	7259.	878.	1290.	0.2320	0.1363	1.702	0.654	3.344
0.825	2435.	7742.	905.	1330.	0.2326	0.1394	1.669	0.642	3.180
0.850	2718.	8238.	933.	1370.	0.2332	0.1423	1.639	0.632	3.031

STATIC PROCF PERFORMANCE

CURTISS CALIB RUN NO 26- WALLS DOWN

BETA=21.1 AF= 93.0 CIA=13.00 NBL=4 TEMPC= 8.0 TEMPR= 506.09 SIGMA=1.0200

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
861.	535.	2990.	0.531	0.2144	0.1129	1.8992	0.7017	5.5888
951.	737.	3706.	0.587	0.2178	0.1154	1.8874	0.7029	5.0285
1047.	591.	4539.	0.646	0.2201	0.1163	1.8927	0.7085	4.5802
1146.	1374.	5569.	0.707	0.2254	0.1229	1.8332	0.6945	4.0531
1246.	1892.	6765.	0.769	0.2316	0.1317	1.7584	0.6753	3.5756
1348.	2539.	7892.	0.832	0.2308	0.1396	1.6537	0.6340	3.1083
1409.	2579.	8529.	0.869	0.2283	0.1434	1.5921	0.6071	2.8630

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 F

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.550	594.	3213.	607.	891.	0.2149	0.1129	1.903	0.704	5.4009
0.575	671.	3545.	634.	932.	0.2170	0.1117	1.943	0.722	5.283
0.600	767.	3894.	662.	972.	0.2189	0.1123	1.949	0.728	5.079
0.625	881.	4260.	690.	1013.	0.2207	0.1141	1.934	0.725	4.836
0.650	1013.	4643.	717.	1054.	0.2223	0.1167	1.905	0.717	4.581
0.675	1165.	5042.	745.	1094.	0.2239	0.1198	1.869	0.706	4.329
0.700	1334.	5458.	772.	1135.	0.2254	0.1230	1.832	0.694	4.091
0.725	1514.	5922.	800.	1175.	0.2279	0.1256	1.814	0.691	3.912
0.750	1720.	6360.	827.	1216.	0.2288	0.1290	1.774	0.677	3.697
0.775	1947.	6807.	855.	1256.	0.2293	0.1323	1.734	0.662	3.497
0.800	2193.	7263.	883.	1297.	0.2296	0.1355	1.695	0.648	3.311
0.825	2460.	7728.	910.	1337.	0.2297	0.1386	1.658	0.634	3.141
0.850	2747.	8203.	938.	1378.	0.2297	0.1415	1.624	0.621	2.986

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 261 WALLS DOWN

BETA=21.1 AF= 93.0 CIA=13.000 NBL=4 TEMPC= 5.5 TEMPR= 501.59 SIGMA=1.0170

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
787.	403.	2537.	0.488	0.2177	0.1113	1.9554	0.7281	6.2953
873.	556.	3147.	0.541	0.2195	0.1125	1.9502	0.7291	5.6601
581.	814.	3982.	0.608	0.2199	0.1161	1.8940	0.7088	4.8919
1078.	1104.	4877.	0.668	0.2231	0.1187	1.8795	0.7084	4.4176
1168.	1500.	5909.	0.724	0.2302	0.1268	1.8160	0.6953	3.9393
1275.	2075.	7217.	0.790	0.2360	0.1348	1.7502	0.6784	3.4781
1376.	2743.	8260.	0.853	0.2319	0.1418	1.6354	0.6284	3.0113
1405.	2559.	8555.	0.871	0.2303	0.1437	1.6032	0.6140	2.8912

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	495.	2936.	577.	847.	0.2174	0.1098	1.981	0.737	5.926
0.550	568.	3223.	604.	887.	0.2175	0.1095	1.986	0.739	5.671
0.575	657.	3534.	632.	928.	0.2182	0.1107	1.970	0.735	5.381
0.600	761.	3870.	659.	968.	0.2195	0.1129	1.943	0.726	5.086
0.625	881.	4230.	686.	1008.	0.2211	0.1156	1.911	0.717	4.802
0.650	1016.	4614.	714.	1049.	0.2229	0.1186	1.879	0.708	4.540
0.675	1157.	5062.	741.	1089.	0.2268	0.1205	1.882	0.715	4.377
0.700	1324.	5476.	769.	1129.	0.2281	0.1238	1.843	0.703	4.135
0.725	1503.	5954.	796.	1170.	0.2313	0.1265	1.829	0.702	3.961
0.750	1706.	6397.	824.	1210.	0.2322	0.1297	1.791	0.689	3.749
0.775	1929.	6844.	851.	1251.	0.2326	0.1328	1.751	0.674	3.549
0.800	2170.	7295.	879.	1291.	0.2327	0.1359	1.712	0.659	3.361
0.825	2431.	7750.	906.	1331.	0.2325	0.1388	1.675	0.644	3.187
0.850	2712.	8209.	934.	1372.	0.2319	0.1416	1.639	0.630	3.027

STATIC PROCP PERFORMANCE

CURTISS CALIB RUN TO 273 WALLS DOWN

WETA=21.1 AF= 93.0 CIA=13.0 NBL=4 TENPC= -3. TEMPR= 491.69 SIGMA=0.

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
702.	285.	2008.	0.439	0.2166	0.1109	1.9521	0.7249	7.0456
757.	353.	2419.	0.474	0.2244	0.1127	1.9910	0.7526	6.6639
815.	440.	2615.	0.510	0.2092	0.1095	1.9117	0.6978	5.9432
851.	515.	2968.	0.533	0.2178	0.1125	1.9357	0.7209	5.7631
901.	625.	3330.	0.564	0.2180	0.1151	1.8947	0.7060	5.3280
953.	738.	3722.	0.597	0.2178	0.1148	1.8970	0.7065	5.0434
999.	870.	4163.	0.625	0.2217	0.1175	1.8867	0.7089	4.7851
1050.	1032.	4662.	0.657	0.2247	0.1201	1.8721	0.7082	4.5174
1101.	1205.	5113.	0.689	0.2242	0.1216	1.8438	0.6967	4.2432
1147.	1408.	5710.	0.718	0.2307	0.1257	1.8359	0.7036	4.0554
1197.	1665.	6327.	0.749	0.2347	0.1307	1.7952	0.6940	3.8000
1250.	1962.	7052.	0.782	0.2399	0.1353	1.7732	0.6931	3.5943
1300.	2263.	7502.	0.814	0.2359	0.1387	1.7009	0.6593	3.3151
1347.	2615.	8110.	0.843	0.2376	0.1441	1.6488	0.6413	3.1013
1400.	3062.	8776.	0.876	0.2380	0.1503	1.5837	0.6165	2.8661
1410.	3115.	8815.	0.883	0.2357	0.1496	1.5748	0.6101	2.8299

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	492.	2861.	571.	839.	0.2162	0.1122	1.927	0.715	5.821
0.550	569.	3126.	598.	879.	0.2152	0.1129	1.905	0.705	5.494
0.575	659.	3463.	625.	919.	0.2181	0.1145	1.905	0.710	5.255
0.600	758.	3800.	652.	959.	0.2198	0.1159	1.896	0.709	5.012
0.625	869.	4149.	680.	998.	0.2212	0.1176	1.881	0.706	4.774
0.650	999.	4518.	707.	1038.	0.2227	0.1189	1.873	0.705	4.570
0.675	1126.	4923.	734.	1078.	0.2250	0.1209	1.861	0.705	4.373
0.700	1283.	5352.	761.	1118.	0.2275	0.1235	1.842	0.701	4.173
0.725	1465.	5861.	788.	1158.	0.2322	0.1270	1.829	0.703	4.001
0.750	1664.	6361.	816.	1198.	0.2355	0.1303	1.807	0.700	3.822
0.775	1888.	6846.	843.	1238.	0.2374	0.1340	1.772	0.689	3.625
0.800	2129.	7307.	870.	1278.	0.2378	0.1373	1.731	0.674	3.433
0.825	2398.	7774.	897.	1318.	0.2379	0.1411	1.686	0.656	3.241
0.850	2698.	8240.	924.	1358.	0.2375	0.1451	1.637	0.637	3.055
0.875	3025.	8705.	951.	1398.	0.2368	0.1492	1.587	0.616	2.877

STATIC PRCP PERFORMANCE

CURTISS CALIB RUN NO 279 WALLS DOWN

BETA=21.1 AF= 93.0 DIA=13.0 NUL=4 TEMPC= 1.0 TEMPR= 493.49 SIGMA=1.0210

***** RAW DATA PCINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
726.	316.	2184.	0.454	0.2202	0.1112	1.9804	0.7416	6.9114
827.	464.	2762.	0.517	0.2146	0.1105	1.9429	0.7183	5.9526
929.	700.	3643.	0.580	0.2244	0.1176	1.9082	0.7213	5.2043
1027.	956.	4476.	0.642	0.2256	0.1169	1.8978	0.7192	4.6820
1121.	1310.	5465.	0.700	0.2311	0.1252	1.8457	0.7081	4.1718
1223.	1820.	6695.	0.764	0.2380	0.1340	1.7767	0.6917	3.6808
1323.	2451.	7904.	0.827	0.2400	0.1425	1.6839	0.6583	3.2248
1394.	2987.	8678.	0.871	0.2374	0.1485	1.5984	0.6214	2.9053

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	480.	2899.	572.	840.	0.2182	0.1090	2.003	0.747	6.040
0.550	560.	3198.	599.	880.	0.2193	0.1106	1.983	0.741	5.709
0.575	654.	3519.	626.	920.	0.2209	0.1130	1.954	0.733	5.381
0.600	762.	3864.	654.	960.	0.2227	0.1158	1.923	0.724	5.074
0.625	883.	4231.	681.	1000.	0.2248	0.1188	1.893	0.716	4.794
0.650	1001.	4643.	708.	1040.	0.2280	0.1197	1.905	0.726	4.639
0.675	1152.	5051.	735.	1080.	0.2300	0.1231	1.869	0.715	4.383
0.700	1321.	5478.	763.	1120.	0.2320	0.1265	1.833	0.705	4.146
0.725	1490.	5938.	790.	1160.	0.2344	0.1285	1.824	0.705	3.984
0.750	1696.	6386.	817.	1200.	0.2356	0.1321	1.783	0.691	3.764
0.775	1923.	6847.	844.	1240.	0.2365	0.1357	1.743	0.676	3.561
0.800	2170.	7320.	872.	1280.	0.2373	0.1392	1.705	0.663	3.374
0.825	2437.	7807.	899.	1320.	0.2380	0.1426	1.669	0.650	3.203
0.850	2726.	8306.	926.	1360.	0.2386	0.1458	1.636	0.638	3.048

SECTION IV
DATA RUNS: RIG 4, PHASE III,
PROTECTIVE WALLS RELOCATED

CONFIGURATION	PAGE
2FF16A1-4A	222
47 x 91	242
47 x 92	254
47 x 93	263
47 x 94	274
47 x 95	281
47 x 96	293
47 x 97	301
47 x 121	311
47 x 138	322
CALIBRATOR	333

STATIC PROP PERFORMANCE

2FF1-A1-4A, 2 JUNE 66 CUM NO 267**ALLS REPLICATED

PEY1=-0.2 AF= -0. DIA=15.625 NPL=4 FPMPC= 19.0 FMPR= 324.09 SIGMA=0.9770

***** FITTED CURVE DATA *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
706.	112.	737.	0.514	0.0377	0.0180	2.0918	0.3239	6.2458
750.	142.	778.	0.547	0.0352	0.0181	1.9493	0.2919	5.4789
799.	170.	839.	0.582	0.0335	0.0179	1.8706	0.2731	4.9353
851.	207.	962.	0.620	0.0338	0.0180	1.8761	0.2754	4.6473
899.	246.	1095.	0.655	0.0342	0.0182	1.8809	0.2775	4.4105
952.	295.	1126.	0.694	0.0316	0.0184	1.7179	0.2439	3.8041
1001.	342.	1208.	0.729	0.0307	0.0183	1.6772	0.2345	3.5322
1046.	397.	1290.	0.762	0.0300	0.0186	1.6123	0.2230	3.2494
1102.	470.	1433.	0.803	0.0301	0.0189	1.5939	0.2205	3.0489
1145.	531.	1576.	0.834	0.0306	0.0190	1.6121	0.2251	2.9680
1198.	621.	1668.	0.873	0.0296	0.0194	1.5265	0.2096	2.6860
1231.	676.	1679.	0.897	0.0282	0.0195	1.4504	0.1944	2.4837
1251.	716.	1760.	0.912	0.0286	0.0196	1.4587	0.1970	2.4581
1305.	850.	1822.	0.953	0.0271	0.0204	1.3300	0.1748	2.1435
1353.	983.	1791.	0.926	0.0248	0.0213	1.1629	0.1461	1.8118
1399.	1158.	1658.	1.019	0.0216	0.0227	0.9502	0.1114	1.4318
1448.	1378.	1474.	1.055	0.0179	0.0244	0.7347	0.0785	1.0697
1497.	1635.	1411.	1.091	0.0160	0.0262	0.6133	0.0620	0.8636

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	338.	1206.	814.	995.	0.0310	0.0184	1.683	0.237	3.567
0.750	376.	1255.	842.	1029.	0.0302	0.0185	1.628	0.226	3.335
0.775	417.	1346.	870.	1063.	0.0303	0.0186	1.628	0.226	3.227
0.800	463.	1426.	898.	1098.	0.0301	0.0188	1.603	0.222	3.079
0.825	514.	1521.	926.	1132.	0.0302	0.0190	1.590	0.221	2.961
0.850	566.	1601.	954.	1166.	0.0300	0.0192	1.565	0.216	2.828
0.875	621.	1665.	982.	1201.	0.0294	0.0193	1.526	0.209	2.679
0.900	684.	1724.	1010.	1235.	0.0288	0.0195	1.476	0.200	2.519
0.925	752.	1786.	1038.	1269.	0.0282	0.0197	1.430	0.192	2.374
0.950	838.	1804.	1057.	1304.	0.0270	0.0203	1.331	0.175	2.153
0.975	936.	1802.	1095.	1338.	0.0256	0.0210	1.222	0.156	1.925
1.000	1054.	1720.	1123.	1372.	0.0233	0.0219	1.063	0.129	1.633

STATIC PROP PERFORMANCE

EFFICIENCY-4A 2 JUNE65 RUT NO 298 ***BALLS RELOCATED

BETA= 0. AF= -0. DIA=15.625 INCH=4 T WPC= 17.0 T WPM= 522.29 SIGMA=0.9780

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
700.	122.	1002.	0.511	0.0521	0.0191	2.7273	0.4967	8.2131
755.	155.	1145.	0.551	0.0512	0.0193	2.6457	0.4775	7.3871
801.	139.	1268.	0.565	0.0503	0.0197	2.5492	0.4564	6.7090
846.	213.	1370.	0.618	0.0487	0.0193	2.5221	0.4444	6.2844
898.	265.	1534.	0.656	0.0484	0.0197	2.4566	0.4315	5.7669
948.	316.	1677.	0.692	0.0475	0.0199	2.3866	0.4152	5.3070
1000.	364.	1861.	0.720	0.0474	0.0195	2.4253	0.4213	5.1125
1049.	421.	2035.	0.756	0.0471	0.0200	2.3495	0.4069	4.7216
1095.	500.	2229.	0.799	0.0473	0.0204	2.3157	0.4021	4.4580
1150.	569.	2413.	0.839	0.0465	0.0201	2.3135	0.3980	4.2408
1200.	659.	2597.	0.876	0.0459	0.0205	2.2433	0.3837	3.9408
1232.	714.	2679.	0.899	0.0450	0.0205	2.1928	0.3710	3.7521
1248.	762.	2822.	0.911	0.0461	0.0210	2.1925	0.3758	3.7034
1303.	885.	2965.	0.951	0.0445	0.0215	2.0685	0.3481	3.3465
1351.	1023.	3103.	0.986	0.0434	0.0223	1.9471	0.3236	3.0381
1407.	1219.	3252.	1.027	0.0418	0.0235	1.7606	0.2906	2.6678
1449.	1400.	3354.	1.058	0.0407	0.0247	1.6467	0.2651	2.3957
1506.	1725.	3579.	1.099	0.0402	0.0271	1.4822	0.2371	2.0748

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	262.	1835.	813.	993.	0.0474	0.0198	2.380	0.415	5.074
0.750	404.	1961.	841.	1027.	0.0473	0.0200	2.367	0.411	4.857
0.775	447.	2092.	869.	1062.	0.0473	0.0200	2.358	0.409	4.682
0.800	495.	2225.	897.	1096.	0.0472	0.0202	2.335	0.405	4.492
0.825	546.	2348.	925.	1130.	0.0468	0.0203	2.304	0.398	4.298
0.850	596.	2465.	953.	1164.	0.0463	0.0203	2.284	0.392	4.134
0.875	657.	2595.	981.	1199.	0.0460	0.0205	2.246	0.384	3.949
0.900	723.	2724.	1009.	1233.	0.0456	0.0207	2.205	0.376	3.770
0.925	796.	2850.	1037.	1267.	0.0452	0.0210	2.151	0.365	3.579
0.950	832.	2965.	1065.	1301.	0.0446	0.0215	2.075	0.350	3.360
0.975	977.	3070.	1093.	1336.	0.0438	0.0220	1.991	0.333	3.143
1.000	1079.	3144.	1121.	1370.	0.0427	0.0225	1.892	0.312	2.912

ST. LC PROP PERFORMANCE

2FFISAL-4A, 3 JUN 66 RUN NO 289

BETA= 2.2 AF= -0. CIA=15.625 MWL=4 T MPO= 19.0 T MPR= 525.39 SIGMA=0.9730

***** RAW DATA POINTS *****

RPM	HP	TH	TWACH	RCT	RCP	RCT/CP	RFM	RTH/HP
701.	152.	1336.	0.515	0.0679	0.0239	2.8399	0.5904	8.4557
756.	191.	1450.	0.550	0.0659	0.0237	2.7789	0.5695	7.7487
797.	227.	1665.	0.581	0.0664	0.0239	2.7801	0.5718	7.2348
849.	273.	1971.	0.618	0.0661	0.0240	2.7602	0.5663	6.8535
895.	315.	2055.	0.651	0.0653	0.0237	2.7610	0.5632	6.5032
955.	393.	2343.	0.695	0.0654	0.0239	2.7357	0.5584	6.0387
1003.	454.	2528.	0.730	0.0640	0.0242	2.6494	0.5348	5.5683
1052.	525.	2795.	0.765	0.0643	0.0242	2.6568	0.5377	5.3238
1097.	590.	3001.	0.798	0.0635	0.0240	2.6469	0.5323	5.0864
1150.	690.	3263.	0.837	0.0629	0.0244	2.5838	0.5172	4.7362
1199.	753.	3597.	0.872	0.0637	0.0247	2.5799	0.5197	4.5359
1224.	850.	3762.	0.893	0.0635	0.0246	2.5782	0.5186	4.4259
1249.	893.	3864.	0.909	0.0631	0.0246	2.5637	0.5138	4.3270
1304.	1024.	4152.	0.949	0.0622	0.0248	2.5082	0.4991	4.0547
1346.	1151.	4337.	0.979	0.0610	0.0253	2.4059	0.4741	3.7680
1400.	1361.	4604.	1.018	0.0598	0.0266	2.2466	0.4385	3.3828
1448.	1588.	4892.	1.053	0.0594	0.0281	2.1161	0.416	3.0806
1503.	1895.	5160.	1.093	0.0584	0.0300	1.9490	0.3758	2.7335

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	444.	2518.	815.	997.	0.0646	0.0241	2.684	0.544	5.677
0.750	492.	2682.	843.	1031.	0.0543	0.0241	2.666	0.539	5.452
0.775	542.	2836.	872.	1065.	0.0637	0.0241	2.644	0.532	5.231
0.800	599.	3015.	900.	1100.	0.0635	0.0242	2.628	0.528	5.038
0.825	660.	3203.	928.	1134.	0.0634	0.0243	2.612	0.525	4.855
0.850	726.	3392.	956.	1168.	0.0633	0.0244	2.589	0.520	4.672
0.875	797.	3506.	984.	1203.	0.0635	0.0246	2.581	0.519	4.524
0.900	858.	3610.	1012.	1237.	0.0634	0.0246	2.576	0.517	4.389
0.925	940.	3981.	1040.	1272.	0.0627	0.0245	2.556	0.511	4.237
0.950	1027.	4141.	1058.	1306.	0.0618	0.0248	2.498	0.496	4.033
0.975	1113.	4313.	1076.	1340.	0.0611	0.0253	2.419	0.477	3.805
1.000	1257.	4489.	1125.	1375.	0.0605	0.0260	2.328	0.457	3.571

STATIC PROP PERFORMANCE

EFF-10A1-4A 3JUN 70 303 P-1A SET FOR CALIBRATION CHECK

P-1A=10.0 AF= -0. DIA=15.625 IDL=4 TPC= 24.0 TEMPR= 534.99 SIGMA=0.9500

***** A. DATA POINTS *****

RPM	HP	T ₀₁ T ₀₄ MACH	RCT	RCP	RCT/CP	RPM	RTM/HP
705.	393.	2842. 0.509	0.1456	0.0602	2.4185	0.7365	7.2316
757.	488.	3284. 0.546	0.1459	0.0604	2.4166	0.7367	5.7295
805.	602.	3832. 0.581	0.1506	0.0620	2.4308	0.7528	6.3654
852.	711.	4253. 0.615	0.1492	0.0617	2.4176	0.7452	5.9817
899.	851.	4842. 0.648	0.1526	0.0629	2.4265	0.7564	5.6898
954.	1016.	5411. 0.688	0.1514	0.0628	2.4102	0.7484	5.3258
1003.	1181.	5979. 0.723	0.1514	0.0628	2.4088	0.7478	5.0627
1054.	1367.	6568. 0.760	0.1506	0.0627	2.4023	0.7439	4.8047
1100.	1602.	7368. 0.793	0.1551	0.0646	2.3999	0.7542	4.5993
1150.	1831.	8021. 0.830	0.1545	0.0646	2.3898	0.7495	4.3807
1197.	2125.	8884. 0.863	0.1579	0.0666	2.3728	0.7524	4.1787
1227.	2275.	9242. 0.885	0.1563	0.0661	2.3635	0.7458	4.0605
1249.	2447.	9747. 0.901	0.1591	0.0674	2.3601	0.7513	3.9832
1303.	2856.	10653. 0.940	0.1598	0.0693	2.3056	0.7355	3.7300
1353.	3278.	11453. 0.976	0.1593	0.0711	2.2425	0.7143	3.4939
1401.	3731.	12084. 1.011	0.1568	0.0728	2.1525	0.6802	3.2388
1450.	4175.	12316. 1.046	0.1492	0.0735	2.0291	0.6254	2.9499
1505.	4767.	13000. 1.086	0.1462	0.0751	1.9470	0.5940	2.7271

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1187.	6001.	822.	1005.	0.1513	0.0628	2.409	0.748	5.053
0.750	1222.	6442.	851.	1040.	0.1518	0.0632	2.403	0.747	4.872
0.775	1466.	6911.	879.	1074.	0.1525	0.0634	2.403	0.749	4.715
0.800	1624.	7444.	907.	1109.	0.1541	0.0643	2.397	0.751	4.556
0.825	1810.	7967.	936.	1144.	0.1551	0.0650	2.398	0.751	4.401
0.850	2003.	8532.	964.	1178.	0.1565	0.0657	2.380	0.751	4.258
0.875	2204.	9080.	992.	1213.	0.1572	0.0663	2.371	0.750	4.120
0.900	2437.	9591.	1021.	1248.	0.1585	0.0674	2.354	0.748	3.977
0.925	2637.	10298.	1049.	1282.	0.1595	0.0684	2.331	0.743	3.833
0.950	2979.	10950.	1077.	1317.	0.1608	0.0700	2.297	0.735	3.676
0.975	3273.	11445.	1106.	1352.	0.1595	0.0712	2.242	0.715	3.497
1.000	3579.	11825.	1134.	1386.	0.1567	0.0721	2.173	0.686	3.304

STATIC PROOF PERFORMANCE

2 EFFL: 1.0 A PROP 0.0 327 MIDPOINT CALIBRATION BETA LOCKED

BETA=10.5 AF=104.0 DIA=15.625 VOL=4 TEMPC= 26.0 TEMPR= 533.49 SIGMA=0.9490

***** DATA POINTS *****

RPM	HP	TH	MACH	RCI	RTP	RCT/CP	RFM	RTH/HP
698.	372.	2803.	0.502	0.1465	0.0587	2.4949	0.7621	7.5349
744.	450.	3142.	0.535	0.1464	0.0587	2.4956	0.7620	7.0711
800.	563.	3614.	0.575	0.1438	0.0590	2.4361	0.7372	6.4192
856.	659.	4204.	0.615	0.1461	0.0597	2.4457	0.7460	6.0229
897.	793.	4573.	0.645	0.1447	0.0594	2.4354	0.7394	5.7234
950.	975.	5227.	0.683	0.1475	0.0611	2.4160	0.7404	5.3610
1002.	1152.	5859.	0.720	0.1486	0.0615	2.4175	0.7437	5.0859
1047.	1325.	6428.	0.753	0.1493	0.0620	2.4095	0.7431	4.8513
1100.	1547.	7071.	0.791	0.1488	0.0624	2.3851	0.7343	4.5708
1143.	1779.	7819.	0.825	0.1511	0.0631	2.3935	0.7425	4.3952
1200.	2076.	8704.	0.863	0.1539	0.0645	2.3867	0.7473	4.1927
1231.	2247.	9115.	0.885	0.1532	0.0647	2.3688	0.7399	4.0565
1255.	2391.	9494.	0.902	0.1535	0.0649	2.3639	0.7391	3.9707
1307.	2784.	10411.	0.940	0.1552	0.0669	2.3186	0.7289	3.7396
1349.	3153.	11212.	0.970	0.1569	0.0691	2.2720	0.7182	3.5503
1401.	3623.	11907.	1.007	0.1545	0.0707	2.1842	0.6851	3.2865
1447.	4042.	12476.	1.040	0.1518	0.0716	2.1187	0.6586	3.0866
1497.	4554.	13056.	1.076	0.1484	0.0729	2.0359	0.6258	2.8669

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1176.	5926.	825.	1008.	0.1484	0.0615	2.411	0.741	5.041
0.750	1311.	6371.	853.	1043.	0.1491	0.0620	2.404	0.741	4.859
0.775	1451.	6806.	882.	1078.	0.1492	0.0622	2.399	0.739	4.692
0.800	1609.	7298.	910.	1113.	0.1501	0.0627	2.384	0.740	4.536
0.825	1741.	7811.	939.	1148.	0.1511	0.0633	2.387	0.740	4.385
0.850	1957.	8352.	967.	1182.	0.1522	0.0639	2.382	0.741	4.247
0.875	2154.	8919.	996.	1217.	0.1533	0.0644	2.380	0.744	4.121
0.900	2352.	9473.	1024.	1252.	0.1539	0.0652	2.362	0.739	3.977
0.925	2630.	10042.	1053.	1287.	0.1551	0.0663	2.340	0.735	3.834
0.950	2916.	10707.	1081.	1321.	0.1562	0.0679	2.301	0.726	3.671
0.975	3212.	11265.	1110.	1356.	0.1560	0.0692	2.256	0.711	3.506
1.000	3523.	11779.	1138.	1391.	0.1550	0.0703	2.206	0.693	3.343

STATIC PROP PERFORMANCE

2FF15A1-4A RUM NO 351 CALIBRATION RUM * BETA LOCKED*

BETA=10.5 AF=104.0 DIA=19.015 VEL=4 T-MPC= 26.5 TEMPR= 339.39 SIGMA=0.9370

***** REAL DATA POINTS *****

RPM	HP	TH	TS/MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
704.	372.	2860.	0.506	0.1470	0.0572	2.5675	0.7855	7.6882
754.	462.	3303.	0.542	0.1482	0.0579	2.5610	0.7867	7.1602
799.	560.	3714.	0.574	0.1482	0.0589	2.5138	0.7721	6.6321
849.	677.	4225.	0.610	0.1493	0.0594	2.5140	0.7752	6.2422
904.	831.	4813.	0.649	0.1500	0.0604	2.4837	0.7676	5.7918
951.	961.	5251.	0.683	0.1479	0.0600	2.4650	0.7564	5.4641
993.	1131.	5912.	0.718	0.1509	0.0609	2.4772	0.7678	5.2272
1051.	1309.	6467.	0.755	0.1491	0.0605	2.4631	0.7590	4.9404
1100.	1544.	7193.	0.790	0.1514	0.0623	2.4310	0.7548	4.6587
1152.	1817.	8111.	0.828	0.1557	0.0638	2.4395	0.7680	4.4640
1201.	2075.	8773.	0.863	0.1549	0.0643	2.4088	0.7565	4.2280
1230.	2264.	9349.	0.894	0.1574	0.0653	2.4094	0.7628	4.1294
1248.	2383.	9626.	0.896	0.1574	0.0658	2.3914	0.7571	4.0394
1297.	2771.	10587.	0.932	0.1603	0.0682	2.3507	0.7510	3.8206
1348.	3136.	11291.	0.948	0.1583	0.0687	2.3023	0.7309	3.6004
1402.	2672.	12145.	1.007	0.1574	0.0715	2.1997	0.6963	3.3075
1448.	4109.	12700.	1.040	0.1543	0.0727	2.1230	0.6654	3.0908
1505.	4760.	13234.	1.081	0.1488	0.0750	1.9849	0.6110	2.7803

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1156.	5954.	826.	1009.	0.1489	0.0603	2.467	0.759	5.152
0.750	1293.	6411.	854.	1044.	0.1498	0.0610	2.457	0.759	4.960
0.775	1445.	6923.	893.	1079.	0.1515	0.0618	2.452	0.761	4.790
0.800	1607.	7417.	911.	1114.	0.1523	0.0625	2.438	0.759	4.614
0.825	1736.	7955.	940.	1149.	0.1536	0.0633	2.427	0.759	4.454
0.850	1985.	8554.	968.	1183.	0.1556	0.0643	2.419	0.761	4.309
0.875	2138.	9126.	997.	1218.	0.1566	0.0650	2.410	0.761	4.170
0.900	2420.	9755.	1025.	1253.	0.1583	0.0660	2.396	0.761	4.032
0.925	2674.	10368.	1054.	1288.	0.1592	0.0672	2.368	0.754	3.877
0.950	2951.	10948.	1082.	1323.	0.1594	0.0685	2.327	0.742	3.710
0.975	3242.	11503.	1110.	1357.	0.1590	0.0696	2.284	0.727	3.548
1.000	3561.	11994.	1139.	1392.	0.1576	0.0709	2.224	0.705	3.368

STATIC P-CP PERFORMANCE

OFFICIAL-4A RJN 110 35L CALIBRATION RUN *BETA LOCKED*

BETA=10.5 AF=106.0 DIA=15.625 NAL=4 FREQ= 28.5 TPROP= 542.99 SIGMA=0.9330

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
702.	370.	2895.	0.503	0.1496	0.0574	2.6056	0.8043	7.8243
753.	466.	3346.	0.529	0.1503	0.0586	2.5648	0.7935	7.1803
799.	563.	3796.	0.572	0.1514	0.0593	2.5556	0.7936	6.7425
850.	671.	4247.	0.609	0.1497	0.0587	2.5521	0.7880	5.3294
901.	803.	4633.	0.645	0.1453	0.0589	2.4660	0.7502	5.7696
950.	953.	5298.	0.680	0.1495	0.0597	2.5053	0.7730	5.5593
1000.	1124.	5898.	0.716	0.1502	0.0609	2.4673	0.7631	5.2011
1051.	1337.	6627.	0.752	0.1528	0.0618	2.4712	0.7708	4.9566
1101.	1517.	7056.	0.788	0.1482	0.0610	2.4293	0.7464	4.6513
1150.	1743.	7743.	0.823	0.1491	0.0615	2.4234	0.7468	4.4423
1199.	2013.	8558.	0.858	0.1516	0.0627	2.4181	0.7513	4.2514
1232.	2288.	9437.	0.882	0.1583	0.0657	2.4105	0.7654	4.1246
1248.	2389.	9673.	0.893	0.1582	0.0660	2.3971	0.7608	4.0490
1307.	2622.	10724.	0.936	0.1599	0.0679	2.3561	0.7518	3.8001
1349.	3187.	11410.	0.966	0.1597	0.0697	2.2911	0.7306	3.5802
1401.	3607.	12075.	1.003	0.1567	0.0704	2.2249	0.7028	3.3477
1447.	4126.	12879.	1.026	0.1567	0.0731	2.1426	0.6767	3.1214

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1180.	6081.	828.	1013.	0.1510	0.0610	2.475	0.768	5.153
0.750	1313.	6510.	857.	1049.	0.1511	0.0613	2.464	0.764	4.959
0.775	1450.	6902.	886.	1083.	0.1500	0.0614	2.445	0.756	4.761
0.800	1588.	7296.	914.	1117.	0.1488	0.0611	2.436	0.750	4.596
0.825	1752.	7762.	943.	1152.	0.1489	0.0615	2.423	0.746	4.432
0.850	1957.	8330.	971.	1187.	0.1514	0.0628	2.411	0.749	4.281
0.875	2194.	9115.	1000.	1222.	0.1554	0.0645	2.409	0.758	4.154
0.900	2456.	9860.	1028.	1257.	0.1589	0.0664	2.374	0.762	4.015
0.925	2725.	10511.	1057.	1292.	0.1604	0.0678	2.345	0.756	3.858
0.950	2979.	11017.	1086.	1327.	0.1593	0.0684	2.328	0.742	3.699
0.975	3278.	11568.	1114.	1362.	0.1589	0.0697	2.280	0.725	3.529
1.000	3602.	12102.	1143.	1397.	0.1580	0.0710	2.226	0.706	3.360

STATIC PROP PERFORMANCE

REF CALIBRATION PROP NO 140 300 30 JULY 66

RETA=10.5 AF=10.0 DIA=15.625 NPL=9 F MPC= 13.0 TEMPR= 536.69 SIGMA=0.9490

***** FITTED CURVE DATA *****

RPM	HP	TH	14ACH	RCT	RCP	RCT/CP	RFM	RTH/HP
724.	420.	3014.	0.541	0.1464	0.0594	2.4646	0.7526	7.1762
775.	512.	3425.	0.559	0.1449	0.0588	2.4625	0.7479	6.6895
830.	627.	3899.	0.598	0.1441	0.0589	2.4434	0.7418	6.2185
875.	735.	4362.	0.630	0.1451	0.0591	2.4533	0.7457	5.9105
925.	890.	4953.	0.666	0.1474	0.0604	2.4420	0.7482	5.5652
974.	1062.	5545.	0.701	0.1488	0.0617	2.4116	0.7424	5.2194
1024.	1247.	6196.	0.737	0.1505	0.0623	2.4136	0.7472	4.9687
1075.	1455.	6891.	0.774	0.1519	0.0629	2.4152	0.7511	4.7361
1120.	1686.	7608.	0.807	0.1545	0.0644	2.3975	0.7519	4.5125
1174.	1956.	8409.	0.845	0.1554	0.0649	2.3942	0.7531	4.2991
1220.	2207.	9083.	0.879	0.1554	0.0653	2.3818	0.7493	4.1155
1273.	2619.	10158.	0.917	0.1596	0.0682	2.3422	0.7468	3.8786
1329.	3085.	11212.	0.957	0.1617	0.0706	2.2913	0.7352	3.6344
1375.	3479.	11760.	0.990	0.1584	0.0718	2.2055	0.7005	3.3813
1423.	3919.	12329.	1.025	0.1551	0.0730	2.1236	0.6673	3.1460
1480.	4523.	13045.	1.066	0.1517	0.0752	2.0182	0.6272	2.8746

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1179.	5964.	824.	1007.	0.1498	0.0620	2.416	0.746	5.060
0.750	1219.	6437.	852.	1041.	0.1511	0.0627	2.412	0.748	4.881
0.775	1471.	6942.	880.	1076.	0.1527	0.0633	2.410	0.751	4.720
0.800	1632.	7445.	909.	1111.	0.1536	0.0639	2.404	0.752	4.562
0.825	1797.	7946.	937.	1146.	0.1542	0.0642	2.403	0.753	4.421
0.850	1983.	8492.	966.	1180.	0.1552	0.0647	2.398	0.754	4.282
0.875	2200.	9075.	994.	1215.	0.1565	0.0658	2.377	0.751	4.124
0.900	2456.	9710.	1022.	1250.	0.1583	0.0670	2.363	0.750	3.986
0.925	2708.	10341.	1051.	1285.	0.1602	0.0686	2.336	0.746	3.834
0.950	2947.	10942.	1079.	1319.	0.1601	0.0698	2.292	0.732	3.663
0.975	3230.	11500.	1108.	1354.	0.1598	0.0712	2.245	0.716	3.495
1.000	3609.	11935.	1136.	1389.	0.1583	0.0724	2.188	0.695	3.321

STATIC PROP PERFORMANCE

2FF CALIBRATOR PROP RUN NO 400 30JULY66

PETA=10.4 AF=106.0 DIA=15.615 UBL=4 TEMPC= 25.0 TEMPR= 534.00 SIGMA=0.0490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
725.	429.	3077.	0.524	0.1479	0.0597	2.4770	0.7601	7.1725
772.	510.	3456.	0.556	0.1477	0.0595	2.4817	0.7610	6.7765
822.	608.	3857.	0.592	0.1454	0.0588	2.4737	0.7525	6.3438
929.	908.	5037.	0.668	0.1490	0.0610	2.4421	0.7521	5.5474
975.	1055.	5522.	0.702	0.1479	0.0611	2.4209	0.7430	5.2341
1073.	1253.	6217.	0.741	0.1495	0.0617	2.4220	0.7474	4.9617
1073.	1418.	6723.	0.773	0.1487	0.0616	2.4133	0.7427	4.7412
1122.	1653.	7439.	0.808	0.1505	0.0628	2.3953	0.7415	4.5003
1176.	1949.	8325.	0.847	0.1533	0.0643	2.3829	0.7445	4.2714
1229.	2273.	9189.	0.885	0.1549	0.0657	2.3569	0.7403	4.0427
1275.	2592.	10074.	0.918	0.1578	0.0671	2.3507	0.7452	3.8866
1323.	2955.	10917.	0.953	0.1588	0.0685	2.3186	0.7374	3.6944
1374.	3396.	11697.	0.989	0.1578	0.0703	2.2437	0.7112	3.4423
1423.	3861.	12223.	1.025	0.1537	0.0719	2.1370	0.6686	3.1658
1481.	4458.	12919.	1.067	0.1500	0.0737	2.0359	0.6293	2.8979

***** FITTED CURVE DATA FOR CONSTA.T MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1169.	5928.	824.	1007.	0.1489	0.0615	2.422	0.746	5.071
0.750	1293.	6330.	952.	1041.	0.1486	0.0615	2.418	0.744	4.894
0.775	1438.	6798.	890.	1076.	0.1495	0.0619	2.414	0.745	4.728
0.800	1600.	7291.	909.	1111.	0.1505	0.0626	2.402	0.743	4.558
0.825	1775.	7803.	937.	1146.	0.1514	0.0634	2.389	0.742	4.395
0.850	1972.	8388.	966.	1180.	0.1533	0.0644	2.381	0.744	4.253
0.875	2135.	8973.	994.	1215.	0.1548	0.0654	2.367	0.743	4.106
0.900	2412.	9606.	1022.	1250.	0.1566	0.0663	2.361	0.746	3.982
0.925	2659.	10256.	1051.	1285.	0.1583	0.0674	2.350	0.746	3.857
0.950	2929.	10816.	1079.	1319.	0.1583	0.0685	2.311	0.734	3.693
0.975	3229.	11376.	1108.	1354.	0.1581	0.0696	2.270	0.720	3.534
1.000	3530.	11961.	1136.	1389.	0.1567	0.0708	2.213	0.699	3.360

STATIC PROP PERFORMANCE

OFF CALIBRATOR PROP RUN NO 401 30JULY66

PETA=10.4 AF=107.0 DIA=15.425 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9490

***** AL DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
727.	334.	3056.	0.524	0.1473	0.0537	2.7446	0.8405	7.9583
774.	520.	3519.	0.560	0.1481	0.0600	2.4691	0.7582	5.6901
823.	622.	3983.	0.596	0.1480	0.0598	2.4754	0.7598	5.3022
895.	805.	4658.	0.645	0.1481	0.0603	2.4567	0.7544	5.7863
924.	984.	4932.	0.665	0.1471	0.0602	2.4455	0.7485	5.5792
980.	1068.	5564.	0.706	0.1475	0.0609	2.4219	0.7424	5.2097
1020.	1218.	6048.	0.735	0.1480	0.0616	2.4026	0.7377	4.9655
1076.	1457.	6870.	0.775	0.1511	0.0628	2.4068	0.7466	4.7152
1123.	1682.	7565.	0.809	0.1528	0.0638	2.3963	0.7475	4.4982
1172.	1970.	8472.	0.844	0.1571	0.0657	2.3909	0.7562	4.3005
1230.	2323.	9442.	0.886	0.1589	0.0670	2.3716	0.7545	4.0646
1272.	2616.	10179.	0.916	0.1602	0.0682	2.3479	0.7500	3.8911
1327.	3027.	11064.	0.956	0.1600	0.0695	2.3009	0.7345	3.6551
1372.	3427.	11781.	0.998	0.1594	0.0712	2.2374	0.7128	3.4377
1424.	3934.	12455.	1.025	0.1564	0.0731	2.1387	0.6750	3.1660
1471.	4380.	12961.	1.059	0.1525	0.0739	2.0649	0.6436	2.9591

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1156.	5892.	824.	1007.	0.1480	0.0614	2.413	0.741	5.052
0.750	1303.	6348.	852.	1041.	0.1490	0.0619	2.407	0.742	4.872
0.775	1457.	6870.	880.	1076.	0.1511	0.0628	2.407	0.746	4.714
0.800	1627.	7404.	909.	1111.	0.1528	0.0637	2.389	0.748	4.552
0.825	1811.	7985.	937.	1146.	0.1549	0.0647	2.386	0.753	4.409
0.850	2013.	8598.	966.	1180.	0.1572	0.0657	2.382	0.757	4.272
0.875	2229.	9185.	994.	1215.	0.1584	0.0667	2.376	0.755	4.122
0.900	2458.	9797.	1022.	1250.	0.1597	0.0676	2.363	0.754	3.986
0.925	2700.	10388.	1051.	1285.	0.1603	0.0684	2.344	0.749	3.847
0.950	2972.	10940.	1079.	1319.	0.1601	0.0695	2.303	0.735	3.681
0.975	3258.	11499.	1108.	1354.	0.1598	0.0707	2.240	0.721	3.518
1.000	3578.	11985.	1136.	1389.	0.1583	0.0717	2.206	0.700	3.349

STATIC PROP PERFORMANCE

ZIF15A1-4A GUC150 RPM 422 LBS CALCULATED

REF= 4.0 AF= -0.0 DIA=15.525 ROL=4 TPOC= 12.8 TSP2= 525.39 SIGMA=0.0220

***** RAW DATA POINTS *****

RPM	HP	TH	TWACH	RCT	RCP	RCT/CP	RFM	RTH/HP
690	284	2265	0.508	0.1185	0.0448	2.5419	0.7256	7.9789
750	343	2620	0.549	0.1174	0.0436	2.6929	0.7362	7.5287
790	407	2843	0.578	0.1143	0.0435	2.6370	0.7134	6.9975
800	423	2952	0.585	0.1163	0.0442	2.6306	0.7159	6.8972
850	510	3347	0.619	0.1177	0.0444	2.6493	0.7253	6.5627
900	615	3784	0.658	0.1179	0.0448	2.6343	0.7219	6.1429
950	740	4304	0.695	0.1202	0.0456	2.6349	0.7289	5.8162
990	828	4584	0.726	0.1172	0.0447	2.6210	0.7161	5.5362
1002	843	4719	0.729	0.1197	0.0450	2.6608	0.7346	5.5979
1050	995	5260	0.755	0.1213	0.0461	2.6330	0.7317	5.2811
1100	1143	5739	0.803	0.1203	0.0456	2.6387	0.7305	5.0385
1150	1321	6220	0.859	0.1211	0.0463	2.6168	0.7266	4.7843
1200	1495	6361	0.873	0.1213	0.0465	2.6107	0.7257	4.5852
1230	1611	7235	0.895	0.1218	0.0465	2.6204	0.7298	4.4910
1240	1690	7443	0.906	0.1221	0.0469	2.6032	0.7259	4.4041
1300	1990	8306	0.946	0.1252	0.0486	2.5740	0.7267	4.1739
1350	2252	8773	0.984	0.1221	0.0488	2.5003	0.6971	3.8955
1401	2576	9210	1.019	0.1195	0.0503	2.3761	0.6555	3.5753
1450	2935	9511	1.057	0.1147	0.0514	2.2336	0.6037	3.2405
1500	3357	9917	1.093	0.1118	0.0531	2.1062	0.5620	2.9541

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	FIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	335	4654	615	997	0.1192	0.0453	2.636	0.727	5.576
0.750	425	4995	643	1031	0.1197	0.0453	2.641	0.729	5.401
0.775	1028	5369	872	1055	0.1205	0.0457	2.638	0.731	5.221
0.800	1155	5744	906	1100	0.1210	0.0459	2.633	0.731	5.048
0.850	1232	5109	925	1136	0.1210	0.0461	2.522	0.728	4.875
0.900	1372	5424	950	1250	0.1210	0.0462	2.520	0.727	4.726
0.975	1501	6385	924	1203	0.1212	0.0453	2.617	0.727	4.588
0.990	1656	7371	1012	1237	0.1227	0.0470	2.612	0.750	4.450
0.995	1820	7361	1040	1272	0.1239	0.0475	2.605	0.752	4.319
0.999	2000	8303	1058	1300	0.1241	0.0482	2.573	0.723	4.154
0.975	2105	8594	1026	1240	0.1233	0.0470	2.517	0.705	3.959
1.000	2209	8829	1125	1275	0.1212	0.0495	2.444	0.679	3.747

STATIC PUMP PERFORMANCE

200-15A1-4A MIDPOINT CALIBRATION RUN TO 417 16 SEP 66

P T A= 3.2 AF=106.0 DIA=15.675 NPL=4 TPC= 22.0 TPR= 531.29 SIGMA=0.9580

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	KFM	RTH/HP
597.	302.	2317.	0.504	0.1215	0.0479	2.5367	0.7055	7.6722
751.	372.	2572.	0.544	0.1207	0.0472	2.5589	0.7093	7.1928
902.	461.	3090.	0.580	0.1223	0.0480	2.5501	0.7118	5.7028
951.	549.	3507.	0.616	0.1233	0.0478	2.5788	0.7227	6.3880
991.	649.	3873.	0.652	0.1215	0.0476	2.5506	0.7095	5.9675
950.	769.	4394.	0.688	0.1237	0.0482	2.5692	0.7211	5.7009
1000.	905.	4885.	0.724	0.1244	0.0486	2.5606	0.7207	5.3978
1049.	1049.	5449.	0.759	0.1261	0.0488	2.5849	0.7325	5.1945
1103.	1234.	6044.	0.798	0.1265	0.0494	2.5628	0.7274	4.8979
1151.	1433.	6743.	0.833	0.1296	0.0505	2.5692	0.7382	4.7055
1198.	1626.	7263.	0.867	0.1289	0.0508	2.5392	0.7275	4.4680
1232.	1777.	7745.	0.892	0.1300	0.0510	2.5472	0.7328	4.3585
1252.	1855.	7954.	0.906	0.1292	0.0507	2.5466	0.7306	4.2879
1302.	2126.	8643.	0.942	0.1298	0.0517	2.5109	0.7220	4.0654
1352.	2442.	9186.	0.979	0.1280	0.0531	2.4126	0.6888	3.7617
1398.	2781.	9614.	1.012	0.1253	0.0546	2.2926	0.6476	3.4570
1450.	3212.	10063.	1.049	0.1219	0.0566	2.1550	0.6004	3.1329
1500.	3603.	10376.	1.086	0.1174	0.0573	2.0492	0.5604	2.8798

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6.1

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	905.	4901.	820.	1002.	0.1244	0.0483	2.573	0.724	5.415
0.750	1010.	5298.	848.	1036.	0.1254	0.0488	2.572	0.727	5.233
0.775	1124.	5697.	876.	1071.	0.1265	0.0491	2.575	0.731	5.069
0.800	1248.	6117.	904.	1105.	0.1275	0.0496	2.570	0.732	4.901
0.825	1331.	6545.	933.	1140.	0.1283	0.0500	2.563	0.733	4.741
0.850	1525.	6939.	951.	1174.	0.1290	0.0506	2.553	0.732	4.582
0.875	1671.	7434.	989.	1209.	0.1295	0.0508	2.552	0.733	4.450
0.900	1823.	7871.	1017.	1243.	0.1296	0.0509	2.547	0.732	4.318
0.925	1932.	8332.	1046.	1278.	0.1299	0.0512	2.535	0.729	4.182
0.950	2138.	8747.	1074.	1313.	0.1293	0.0519	2.489	0.714	3.998
0.975	2408.	9129.	1102.	1347.	0.1281	0.0529	2.422	0.692	3.790
1.000	2661.	9484.	1130.	1382.	0.1265	0.0542	2.336	0.663	3.564

STATIC PERFORMANCE

2EFFICIENCY 400150 400150 23 FALLS REDUCED

RETA=10.0 AFE=0.0 0.15=15.4 1.00=4 1.00=20.0 1.00=527.69 SIGMA=0.9580

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RPM	RTH/HP
705.	367.	2671.	0.512	0.1369	0.0562	2.4340	0.7186	7.2779
743.	442.	3107.	0.543	0.1415	0.0567	2.4959	0.7493	7.0339
791.	523.	3503.	0.578	0.1409	0.0560	2.5162	0.7632	6.6635
856.	683.	4215.	0.622	0.1465	0.0586	2.4986	0.7632	5.1533
902.	756.	4591.	0.655	0.1437	0.0582	2.4679	0.7466	5.7676
956.	956.	5216.	0.694	0.1453	0.0587	2.4743	0.7528	5.4561
1023.	1121.	5801.	0.728	0.1471	0.0598	2.4597	0.7530	5.1743
1055.	1233.	6302.	0.766	0.1442	0.0589	2.4468	0.7415	4.8891
1101.	1475.	6950.	0.800	0.1466	0.0594	2.4699	0.7548	4.7290
1147.	1700.	7720.	0.833	0.1494	0.0605	2.4709	0.7623	4.5412
1191.	1965.	8430.	0.870	0.1496	0.0614	2.4368	0.7521	4.2873
1227.	2110.	8743.	0.891	0.1479	0.0613	2.4118	0.7402	4.1436
1250.	2303.	9306.	0.908	0.1517	0.0634	2.3909	0.7431	4.0321
1300.	2641.	10142.	0.944	0.1531	0.0647	2.3666	0.7390	3.8375
1350.	3023.	10955.	0.980	0.1531	0.0661	2.3169	0.7234	3.6179
1409.	3541.	11531.	1.023	0.1486	0.0680	2.1860	0.6724	3.2705
1455.	3881.	11852.	1.037	0.1424	0.0676	2.1049	0.6339	3.0475
1501.	4450.	12551.	1.090	0.1420	0.0706	2.0099	0.6044	2.8227

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 PCINT 2ND ORDER. TH, 6 F

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1036.	5693.	817.	993.	0.1454	0.0592	2.457	0.748	5.189
0.750	1215.	6098.	845.	1033.	0.1456	0.0592	2.459	0.749	5.020
0.775	1341.	6534.	873.	1067.	0.1461	0.0593	2.466	0.752	4.871
0.800	1434.	7014.	901.	1102.	0.1472	0.0596	2.469	0.756	4.725
0.825	1640.	7455.	929.	1136.	0.1477	0.0600	2.460	0.754	4.565
0.850	1811.	8014.	958.	1170.	0.1490	0.0606	2.457	0.757	4.426
0.875	2092.	8512.	986.	1205.	0.1493	0.0615	2.430	0.749	4.251
0.900	2217.	9067.	1014.	1239.	0.1504	0.0625	2.404	0.744	4.090
0.925	2453.	9719.	1042.	1274.	0.1526	0.0637	2.394	0.746	3.962
0.950	2721.	10357.	1070.	1308.	0.1539	0.0653	2.358	0.738	3.799
0.975	2976.	10847.	1098.	1343.	0.1533	0.0662	2.314	0.723	3.633
1.000	3236.	11195.	1127.	1377.	0.1504	0.0665	2.260	0.699	3.460

STATIC PROP PERFORMANCE

OFFICIAL-4A MID PT CALIB RUN NO 419 16SEPT66

RETA=10.4 AF=106.0 DIA=15.005 URL=4 T MPO= 22.0 TEMPR= 533.09 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	MACH	RCT	RCP	RCT/CP	RFM	PTH/HP
707.	397.	2884.	0.511	0.1469	0.0603	2.4364	0.7453	7.2645
800.	581.	3720.	0.578	0.1480	0.0609	2.4298	0.7460	6.4028
901.	839.	4723.	0.651	0.1482	0.0616	2.4060	0.7391	5.6293
1000.	1171.	5956.	0.724	0.1511	0.0625	2.4176	0.7499	5.0863
1099.	1594.	7377.	0.794	0.1556	0.0645	2.4127	0.7594	4.6280
1200.	2103.	9007.	0.867	0.1593	0.0654	2.4346	0.7754	4.2768
1234.	2351.	9530.	0.892	0.1594	0.0672	2.3729	0.7560	4.0536
1301.	2898.	10867.	0.940	0.1635	0.0707	2.3143	0.7468	3.7498
1410.	3839.	12226.	1.019	0.1566	0.0733	2.1357	0.6745	3.1930
1502.	4759.	13009.	1.085	0.1469	0.0754	1.9477	0.5956	2.7336

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POINT 2ND ORDER.)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1177.	5995.	821.	1003.	0.1516	0.0626	2.424	0.753	5.093
0.750	1217.	6464.	849.	1038.	0.1528	0.0632	2.416	0.754	4.907
0.775	1469.	5957.	878.	1073.	0.1540	0.0639	2.409	0.754	4.735
0.800	1610.	7474.	906.	1107.	0.1553	0.0637	2.439	0.767	4.644
0.825	1795.	8019.	934.	1142.	0.1567	0.0647	2.420	0.764	4.467
0.850	1998.	8589.	962.	1176.	0.1581	0.0659	2.399	0.761	4.299
0.875	2208.	9235.	991.	1211.	0.1604	0.0667	2.403	0.768	4.183
0.900	2448.	9873.	1019.	1246.	0.1621	0.0680	2.393	0.766	4.033
0.925	2702.	10404.	1047.	1280.	0.1617	0.0691	2.338	0.750	3.850
0.950	2975.	10304.	1076.	1315.	0.1606	0.0703	2.286	0.731	3.666
0.975	3256.	11374.	1104.	1349.	0.1591	0.0714	2.230	0.710	3.483
1.000	3575.	11914.	1132.	1384.	0.1571	0.0724	2.170	0.686	3.305

STATIC PUMP PERFORMANCE

ZIF16A1-4A 60CF56 40N 70 424 141LS RELOCATED

W_TIA=12.0 AF= -0.0 DIA=15.425 NPL=4 FOPDC= 0.0 F-OR= 528.05 SIGMA=0.9580

***** A. DATA POINTS *****

RPM	HP	TH	TIPS	RCT	FC2	RCT/CP	RFM	PTH/HP
700	440.	311.	0.512	0.1594	0.0674	2.3646	0.7534	7.0705
750	560.	3674.	0.547	0.1650	0.0710	2.3228	0.7530	6.5027
800	690.	4175.	0.584	0.1645	0.0708	2.3246	0.7523	6.0949
850	820.	4597.	0.610	0.1640	0.0709	2.3121	0.7472	5.7072
900	940.	5177.	0.611	0.1639	0.0706	2.3213	0.7498	5.4552
950	1167.	5939.	0.693	0.1662	0.0722	2.3031	0.7492	5.0891
1000	1392.	6743.	0.721	0.1694	0.0732	2.3140	0.7599	4.6441
1050	1630.	7537.	0.754	0.1731	0.0754	2.2970	0.7627	4.5985
1100	1902.	8267.	0.801	0.1727	0.0759	2.2763	0.7550	4.3465
1150	2223.	9196.	0.837	0.1760	0.0779	2.2602	0.7565	4.1323
1200	2562.	10063.	0.871	0.1780	0.0796	2.2359	0.7527	3.9278
1250	2793.	10605.	0.904	0.1782	0.0804	2.2173	0.7470	3.7970
1300	3015.	11105.	0.907	0.1810	0.0829	2.1942	0.7416	3.5835
1350	3433.	12004.	0.916	0.1801	0.0833	2.1613	0.7319	3.4967
1400	3913.	12944.	0.931	0.1806	0.0852	2.1200	0.7190	3.3079
1450	4615.	13674.	1.020	0.1764	0.0894	1.9744	0.6619	2.9623
1456	5055.	14195.	1.057	0.1705	0.0886	1.9244	0.6342	2.7863

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1350.	6519.	317.	999.	0.1690	0.0733	2.306	0.757	4.859
0.750	1525.	7158.	345.	1033.	0.1708	0.0743	2.300	0.759	4.694
0.775	1702.	7713.	373.	1068.	0.1724	0.0751	2.294	0.760	4.531
0.800	1901.	8272.	402.	1102.	0.1739	0.0753	2.280	0.759	4.362
0.825	2115.	8884.	430.	1136.	0.1752	0.0774	2.265	0.756	4.201
0.850	2339.	9472.	458.	1171.	0.1761	0.0792	2.251	0.754	4.053
0.875	2611.	10175.	486.	1205.	0.1784	0.0801	2.228	0.751	3.897
0.900	2859.	10858.	514.	1240.	0.1794	0.0814	2.204	0.745	3.748
0.925	3163.	11524.	542.	1274.	0.1804	0.0822	2.199	0.746	3.638
0.950	3522.	12192.	571.	1309.	0.1813	0.0844	2.149	0.730	3.461
0.975	3858.	12775.	599.	1343.	0.1804	0.0857	2.104	0.713	3.303
1.000	4252.	13291.	627.	1377.	0.1784	0.0869	2.052	0.692	3.140

NOT REPRODUCIBLE

STATIC PUMP PERFORMANCE

OFFICIAL-A MID PT CALIB RUN 10 419 17SEPT66

BETA=14.0 AF=105.0 DIA=15.025 WPL=4 T WPC= 24.0 TEMPR= 534.89 SIGMA=0.9530

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
700.	572.	3652.	0.505	0.1698	0.0897	2.1164	0.7358	5.3735
800.	877.	4369.	0.577	0.1938	0.0920	2.1069	0.7401	5.5519
903.	1289.	6359.	0.651	0.1986	0.0940	2.1132	0.7515	4.9333
999.	1811.	8017.	0.721	0.2046	0.0975	2.0979	0.7572	4.4268
1034.	1852.	8122.	0.724	0.2052	0.0982	2.0887	0.7550	4.3855
1095.	2523.	10052.	0.792	0.2123	0.1027	2.0670	0.7601	3.9684
1101.	2523.	10031.	0.794	0.2107	0.1015	2.0765	0.7607	3.9759
1199.	3517.	12445.	0.864	0.2208	0.1099	2.0098	0.7537	3.5365
1231.	3840.	13064.	0.888	0.2196	0.1105	1.9867	0.7429	3.4021
1299.	4706.	14376.	0.937	0.2170	0.1153	1.8824	0.6997	3.0548
1342.	5246.	15058.	0.968	0.2129	0.1165	1.8273	0.6729	2.8704

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1836.	8117.	822.	1005.	0.2046	0.0971	2.108	0.761	4.420
0.750	2073.	8794.	851.	1040.	0.2072	0.0990	2.092	0.760	4.242
0.775	2337.	9114.	879.	1074.	0.2099	0.1012	2.075	0.758	4.070
0.800	2619.	10356.	907.	1109.	0.2144	0.1031	2.080	0.769	3.954
0.825	2934.	11112.	936.	1144.	0.2163	0.1053	2.055	0.763	3.787
0.850	3278.	11864.	964.	1178.	0.2176	0.1076	2.023	0.753	3.619
0.875	3655.	12731.	992.	1213.	0.2203	0.1102	1.999	0.749	3.474
0.900	4061.	13432.	1021.	1249.	0.2197	0.1122	1.958	0.732	3.308
0.925	4479.	14077.	1049.	1282.	0.2180	0.1140	1.912	0.712	3.143
0.950	4920.	14667.	1077.	1317.	0.2154	0.1156	1.862	0.690	2.981

STATIC PERFORMANCE

REFLECTOR MOUNTED 421 WALLS RELOCATED-RERUN

REFLECTOR MOUNTED 421 WALLS RELOCATED-RERUN

RPM	HP	TH	RCT	RCP	RCT/CP	RFM	RTH/HP
693.	561.	3572.	0.1362	0.0882	2.1113	0.7270	6.3672
753.	717.	4216.	0.1394	0.0902	2.1004	0.7294	5.8901
803.	853.	4760.	0.1333	0.0933	2.1039	0.7303	5.5431
853.	1023.	5296.	0.1349	0.0986	2.0871	0.7162	5.1518
903.	1257.	6127.	0.1314	0.0917	2.0880	0.7289	4.8743
953.	1519.	6957.	0.1347	0.0937	2.0768	0.7312	4.5891
997.	1757.	7725.	0.1380	0.0952	2.0797	0.7384	4.3973
1050.	2140.	8447.	0.2044	0.0992	2.0592	0.7428	4.1341
1100.	2442.	9595.	0.2020	0.0985	2.0503	0.7353	3.9292
1150.	2861.	10606.	0.2060	0.1010	2.0395	0.7386	3.7385
1200.	3421.	11983.	0.2119	0.1063	1.9940	0.7325	3.5028
1253.	4105.	13292.	0.2156	0.1121	1.9242	0.7130	3.2372
1307.	4852.	14919.	0.2094	0.1114	1.8713	0.6816	3.0135
1353.	5171.	14746.	0.2051	0.1121	1.8303	0.6615	2.8517

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P.

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1759.	7729.	814.	995.	0.1989	0.0959	2.073	0.738	4.393
0.750	1972.	8346.	842.	1029.	0.2007	0.0971	2.065	0.739	4.233
0.775	2154.	8959.	870.	1063.	0.2017	0.0975	2.068	0.741	4.099
0.800	2448.	9650.	898.	1098.	0.2029	0.0994	2.052	0.740	3.941
0.825	2723.	10394.	926.	1132.	0.2057	0.1008	2.042	0.739	3.802
0.850	3073.	11197.	954.	1156.	0.2096	0.1039	2.016	0.737	3.644
0.875	3457.	12035.	982.	1201.	0.2126	0.1072	1.983	0.730	3.481
0.900	3861.	12761.	1010.	1235.	0.2131	0.1092	1.951	0.719	3.331
0.925	4214.	13480.	1038.	1269.	0.2121	0.1106	1.918	0.705	3.185
0.950	4606.	14012.	1067.	1304.	0.2100	0.1116	1.882	0.688	3.043
0.975	5004.	14537.	1095.	1338.	0.2068	0.1122	1.844	0.669	2.905

NOT REPRODUCIBLE

REF: A1-4A 6CC156 2014 41 425 1415 1416A150

$$0.013 = 15.29 \times 10^{-3} \quad \text{and} \quad 10.6 \times 10^{-3} = 0.0106$$

SAVED BY THE LORD

RPM	MP	TM	TMACH	RCT	KCP	KCT/CP	RFM	...TH/HP
707.	702.	0.036.	0.513	0.2081	0.1066	1.9511	0.7103	5.8177
750.	699.	0.038.	0.511	0.2123	0.1099	1.9442	0.7173	5.3927
800.	699.	0.033.	0.501	0.2222	0.1133	1.9609	0.7377	5.1543
857.	1327.	0.030.	0.641	0.2186	0.1132	1.9313	0.7206	4.7506
899.	1542.	0.035.	0.612	0.2204	0.1139	1.9346	0.7248	4.5363
952.	1820.	0.030.	0.690	0.2201	0.1142	1.9265	0.7212	4.2658
1001.	2170.	0.035.	0.725	0.2230	0.1162	1.9202	0.7237	4.0438
1047.	2595.	0.036.	0.759	0.2292	0.1214	1.8879	0.7212	3.8012
1102.	3151.	0.027.	0.799	0.2303	0.1268	1.8633	0.7228	3.5644
1155.	3763.	0.025.	0.837	0.2305	0.1311	1.8266	0.7133	3.2338
1200.	4417.	0.030.	0.870	0.2408	0.1372	1.7544	0.6869	3.0820
1230.	4741.	0.034.	0.892	0.2415	0.1379	1.7503	0.6866	3.0006
1243.	5074.	0.037.	0.906	0.2419	0.1398	1.7302	0.6791	2.9202

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

NACH	HP	FM	TIPS	RPM	CT	CP	CT/CP	FM	TM/HP
0.725	2121.	2791.	318.	1000.	0.2239	0.1171	1.912	0.722	4.030
0.770	2472.	9527.	846.	1034.	0.2274	0.1193	1.397	0.722	3.866
0.775	2795.	10414.	875.	1069.	0.2321	0.1229	1.888	0.726	3.724
0.800	3177.	11233.	903.	1103.	0.2360	0.1270	1.859	0.721	3.551
0.825	3578.	12143.	931.	1138.	0.2394	0.1304	1.829	0.713	3.388
0.850	4004.	12958.	959.	1172.	0.2403	0.1335	1.799	0.704	3.235
0.875	4470.	13799.	986.	1207.	0.2413	0.1365	1.767	0.693	3.087
0.900	4954.	14622.	1015.	1241.	0.2416	0.1393	1.735	0.680	2.946

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

47X01 PREP 14JUN66 PUN NO 307

BETA= 2.1 AF= 30.0 DIA=13.000 RUL=4 TRPC= 22.0 TEMPR= 33.29 SIGMA=0.9580

***** STATIC DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	173.	1337.	0.602	0.0711	0.0233	3.0502	0.6489	7.7283
1040.	193.	1504.	0.631	0.0728	0.0232	3.1419	0.6764	7.5960
1090.	225.	1508.	0.662	0.0708	0.0228	3.0999	0.6580	7.1467
1147.	260.	1734.	0.691	0.0701	0.0232	3.0191	0.6377	6.6692
1203.	302.	1863.	0.724	0.0686	0.0234	2.9384	0.6143	6.1887
1251.	342.	2047.	0.753	0.0695	0.0235	2.9552	0.6218	5.9854
1302.	397.	2133.	0.784	0.0688	0.0242	2.8386	0.5940	5.5239
1349.	442.	2360.	0.812	0.0699	0.0242	2.8428	0.5956	5.3394
1395.	492.	2527.	0.842	0.0687	0.0242	2.8340	0.5928	5.1362
1451.	544.	2684.	0.874	0.0678	0.0240	2.8255	0.5869	4.9338
1501.	610.	2862.	0.904	0.0675	0.0243	2.7795	0.5763	4.6918
1550.	715.	3175.	0.933	0.0702	0.0259	2.7165	0.5745	4.4406

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	303.	1888.	820.	1204.	0.0692	0.0234	2.959	0.621	6.226
0.750	339.	2013.	848.	1245.	0.0590	0.0237	2.915	0.511	5.931
0.775	379.	2148.	876.	1287.	0.0699	0.0239	2.880	0.603	5.669
0.800	421.	2293.	904.	1329.	0.0691	0.0242	2.853	0.598	5.441
0.825	462.	2425.	933.	1370.	0.0697	0.0242	2.836	0.593	5.245
0.850	499.	2545.	961.	1412.	0.0679	0.0239	2.843	0.591	5.104
0.875	551.	2703.	989.	1453.	0.0681	0.0242	2.815	0.586	4.908
0.900	612.	2881.	1017.	1495.	0.0685	0.0247	2.777	0.580	4.707
0.925	632.	3076.	1046.	1536.	0.0693	0.0253	2.735	0.575	4.512

STATIC PROP PERFORMANCE

67X91 PROP 14-JUNE-66 RUN 40 308

RETA= 4.0 AF= 90.0 DIA=13.000 NAL=4 FMPC= 22.5 TEMPR= 532.19 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	222.	1695.	0.606	0.0887	0.0305	2.9066	.6907	7.3060
1050.	237.	1841.	0.632	0.0898	0.0299	2.9686	.7057	7.1634
1104.	257.	1987.	0.664	0.0866	0.0297	2.9151	.6848	6.6902
1143.	344.	2197.	0.691	0.0884	0.0305	2.8963	.6874	6.3866
1200.	387.	2364.	0.722	0.0873	0.0302	2.8931	.6820	6.1085
1250.	432.	2573.	0.752	0.0875	0.0298	2.9384	.6937	5.9560
1295.	478.	2720.	0.779	0.0862	0.0296	2.9084	.6814	5.6904
1352.	552.	2992.	0.813	0.0870	0.0301	2.8923	.6808	5.4203
1399.	615.	3201.	0.842	0.0869	0.0302	2.8739	.6762	5.2049
1450.	683.	3410.	0.872	0.0862	0.0302	2.8572	.6694	4.9927
1498.	765.	3661.	0.901	0.0867	0.0306	2.8294	.6649	4.7856
1550.	852.	3891.	0.933	0.0861	0.0308	2.7938	.6541	4.5669

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	289.	2388.	820.	1205.	0.0874	0.0300	2.916	0.688	6.132
0.750	431.	2551.	848.	1247.	0.0873	0.0299	2.914	0.687	5.923
0.775	473.	2709.	877.	1288.	0.0868	0.0298	2.914	0.685	5.732
0.800	522.	2889.	905.	1330.	0.0869	0.0299	2.904	0.683	5.534
0.825	575.	3065.	933.	1271.	0.0866	0.0300	2.885	0.678	5.331
0.850	633.	3259.	952.	1413.	0.0868	0.0302	2.872	0.675	5.151
0.875	694.	3449.	990.	1454.	0.0867	0.0304	2.851	0.670	4.958
0.900	760.	3641.	1018.	1496.	0.0865	0.0306	2.828	0.664	4.790
0.925	830.	3833.	1046.	1537.	0.0862	0.0307	2.803	0.657	4.620

STATIC PROP PERFORMANCE

47X01 PROP 14JUL66 1001 NO 309

RETA= 5.0 AF= 90.0 LA=13.000 11 + CUBIC= 24.0 10000= 533.09 STAY=0.9530

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1004.	279.	2015.	0.604	0.1062	0.0371	2.2619	0.7444	7.2222
1006.	284.	2036.	0.605	0.1059	0.0381	2.8059	0.7324	7.0694
1051.	325.	2246.	0.632	0.1031	0.0377	2.8666	0.7520	6.9108
1053.	325.	2204.	0.633	0.1056	0.0386	2.7343	0.7092	6.5791
1102.	376.	2434.	0.652	0.1065	0.0378	2.8155	0.7333	6.4734
1106.	373.	2392.	0.645	0.1039	0.0371	2.7593	0.7202	5.4129
1149.	418.	2602.	0.691	0.1048	0.0371	2.8229	0.7291	6.2249
1200.	455.	2812.	0.721	0.1038	0.0362	2.8641	0.7363	6.0473
1247.	532.	3054.	0.750	0.1047	0.0369	2.8346	0.7320	5.7594
1299.	615.	3379.	0.781	0.1064	0.0378	2.8123	0.7321	5.4854
1351.	704.	3673.	0.812	0.1070	0.0384	2.7819	0.7260	5.2173
1393.	774.	3903.	0.841	0.1060	0.0381	2.7843	0.7234	5.0425
1447.	864.	4213.	0.870	0.1071	0.0384	2.7891	0.7280	4.9819
1503.	985.	4596.	0.904	0.1081	0.0391	2.7651	0.7256	4.6613
1550.	1078.	4843.	0.932	0.1073	0.0390	2.7512	0.7190	4.4972

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P.

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	477.	2857.	821.	1206.	0.1044	0.0366	2.849	0.735	5.986
0.750	537.	3065.	849.	1249.	0.1053	0.0372	2.831	0.733	5.749
0.775	537.	3307.	878.	1289.	0.1057	0.0375	2.818	0.731	5.539
0.800	656.	3546.	906.	1331.	0.1064	0.0381	2.795	0.728	5.321
0.825	733.	3775.	934.	1372.	0.1065	0.0382	2.780	0.727	5.151
0.850	806.	4020.	962.	1414.	0.1069	0.0384	2.764	0.726	4.989
0.875	894.	4269.	991.	1456.	0.1071	0.0386	2.775	0.725	4.830
0.900	967.	4526.	1019.	1497.	0.1073	0.0388	2.765	0.723	4.680
0.925	1056.	4792.	1047.	1539.	0.1076	0.0390	2.757	0.721	4.539

STATIC PROP PERFORMANCE

67X94 PROP 14JUNE66 RUN NO 310

BETA= 2.0 ME= 20.0 DIA=13.000 NBL=4 T.MPC= 24.2 F.MPP= 535.34 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	263.	2487.	0.601	0.1317	0.0493	2.6726	0.7739	6.7582
1050.	413.	2634.	0.630	0.1270	0.0487	2.6052	0.7408	6.2854
1097.	473.	2693.	0.659	0.1280	0.0482	2.6527	0.7573	6.1268
1147.	543.	3203.	0.688	0.1294	0.0489	2.6460	0.7595	5.8449
1200.	621.	3498.	0.720	0.1291	0.0484	2.6678	0.7650	5.6329
1243.	705.	3804.	0.749	0.1298	0.0488	2.6572	0.7641	5.3957
1300.	792.	4131.	0.780	0.1299	0.0485	2.6762	0.7698	5.2159
1349.	890.	4489.	0.809	0.1311	0.0488	2.6854	0.7759	5.0438
1400.	991.	4732.	0.840	0.1289	0.0496	2.6496	0.7590	4.7952
1450.	1113.	5203.	0.870	0.1316	0.0494	2.6644	0.7712	4.6556
1498.	1245.	5564.	0.899	0.1318	0.0499	2.6423	0.7654	4.4691
1550.	1281.	5901.	0.930	0.1305	0.0499	2.5140	0.7537	4.2730

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	639.	3554.	823.	1209.	0.1293	0.0486	2.659	0.763	5.575
0.750	706.	3926.	851.	1250.	0.1301	0.0487	2.674	0.770	5.420
0.775	779.	4087.	879.	1292.	0.1302	0.0487	2.675	0.770	5.246
0.800	857.	4351.	908.	1334.	0.1300	0.0487	2.672	0.769	5.076
0.825	941.	4631.	936.	1375.	0.1301	0.0487	2.672	0.769	4.922
0.850	1037.	4940.	964.	1417.	0.1308	0.0491	2.664	0.769	4.764
0.875	1133.	5240.	993.	1459.	0.1309	0.0494	2.652	0.766	4.506
0.900	1246.	5547.	1021.	1500.	0.1310	0.0497	2.637	0.762	4.453
0.925	1351.	5861.	1050.	1542.	0.1310	0.0500	2.621	0.757	4.307

STATIC PROP PERFORMANCE

47X91 PROP 15JUN66 RUN 10 311

BETA=10.0 AF=30.0 DIA=12.000 VOL=4 T-MPC=20.0 T-MPR=527.69 SIGMA=0.9630

***** RAW DATA POINTS *****

RPM	HP	TH	T-MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	459.	2845.	0.605	0.1506	0.0613	2.4566	0.7608	5.2118
1051.	520.	3094.	0.635	0.1489	0.0615	2.4215	0.7456	5.8377
1101.	607.	3427.	0.655	0.1503	0.0612	2.4533	0.7589	5.6458
1148.	686.	3718.	0.694	0.1499	0.0611	2.4557	0.7588	5.4198
1199.	801.	4154.	0.724	0.1536	0.0626	2.4541	0.7675	5.1860
1251.	904.	4528.	0.756	0.1538	0.0622	2.4731	0.7739	5.0089
1299.	1000.	4819.	0.765	0.1518	0.0614	2.4701	0.7679	4.8180
1349.	1144.	5337.	0.815	0.1559	0.0628	2.4839	0.7826	4.6652
1404.	1302.	5732.	0.848	0.1546	0.0634	2.4395	0.7653	4.4025
1449.	1457.	6231.	0.876	0.1577	0.0645	2.4457	0.7751	4.2766
1503.	1701.	6895.	0.908	0.1622	0.0675	2.4046	0.7728	4.0535
1549.	1874.	7373.	0.936	0.1633	0.0679	2.4053	0.7757	3.9344

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	793.	4118.	817.	1200.	0.1520	0.0618	2.460	0.766	5.195
0.750	860.	4430.	845.	1241.	0.1528	0.0620	2.465	0.769	5.032
0.775	973.	4760.	873.	1283.	0.1538	0.0621	2.476	0.775	4.892
0.800	1071.	5067.	901.	1324.	0.1536	0.0621	2.473	0.774	4.733
0.825	1180.	5405.	929.	1365.	0.1541	0.0624	2.469	0.773	4.582
0.850	1318.	5816.	959.	1407.	0.1562	0.0637	2.450	0.773	4.414
0.875	1465.	6240.	936.	1448.	0.1582	0.0649	2.435	0.773	4.261
0.900	1626.	6692.	1014.	1489.	0.1603	0.0662	2.420	0.773	4.117
0.925	1801.	7173.	1042.	1531.	0.1627	0.0676	2.406	0.774	3.982

STATIC PROP PERFORMANCE

47X91 PROP 15JUN66 RUN NO 314

BETA=12.0 AF= 90.0 DIA=13.000 NBL=4 T-MPC= 22.5 T-EMPR= 532.19 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	T-MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	553.	3264.	0.603	0.1728	0.0740	2.3342	0.7743	5.9024
1052.	652.	3640.	0.633	0.1748	0.0754	2.3180	0.7734	5.5828
1102.	744.	3975.	0.663	0.1740	0.0749	2.3238	0.7734	5.3427
1149.	852.	4351.	0.691	0.1752	0.0756	2.3159	0.7735	5.1068
1200.	970.	4749.	0.722	0.1753	0.0756	2.3188	0.7747	4.8959
1248.	1102.	5189.	0.751	0.1770	0.0763	2.3189	0.7786	4.7078
1303.	1270.	5711.	0.784	0.1788	0.0773	2.3126	0.7803	4.4969
1354.	1437.	6192.	0.815	0.1795	0.0780	2.3027	0.7786	4.3090
1401.	1615.	6684.	0.843	0.1810	0.0791	2.2885	0.7769	4.1387
1443.	1825.	7280.	0.872	0.1843	0.0808	2.2813	0.7815	3.9890
1498.	2065.	7908.	0.901	0.1873	0.0828	2.2630	0.7816	3.8277
1553.	2375.	8577.	0.934	0.1890	0.0854	2.2126	0.7676	3.6098

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	985.	4808.	820.	1205.	0.1760	0.0758	2.320	0.777	4.879
0.750	1099.	5173.	848.	1247.	0.1770	0.0764	2.316	0.777	4.708
0.775	1221.	5556.	877.	1288.	0.1780	0.0769	2.314	0.779	4.552
0.800	1354.	5954.	905.	1330.	0.1790	0.0776	2.307	0.779	4.396
0.825	1501.	6374.	933.	1371.	0.1802	0.0784	2.299	0.779	4.248
0.850	1654.	6845.	962.	1413.	0.1823	0.0795	2.294	0.782	4.115
0.875	1850.	7331.	990.	1454.	0.1842	0.0810	2.275	0.779	3.963
0.900	2057.	7845.	1018.	1496.	0.1863	0.0827	2.252	0.776	3.815
0.925	2284.	8387.	1046.	1537.	0.1886	0.0846	2.228	0.772	3.672

STATIC PUMP PERFORMANCE

47001 PSCP 15JUNE66 RUN NO 312

RETA=13.0 AF= 90.0 DIA=13.000 ISL=4 I MPQ= 21.5 I CMPR= 30.39 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1001.	681.	3645.	0.603	0.1934	0.0914	2.1152	0.7423	5.3539
1049.	737.	4083.	0.632	0.1972	0.0930	2.1210	0.7516	5.1230
1099.	913.	4458.	0.662	0.1962	0.0926	2.1179	0.7486	4.8828
1149.	1052.	4938.	0.692	0.1991	0.0936	2.1268	0.7574	4.6939
1197.	1201.	5375.	0.721	0.1994	0.0943	2.1143	0.7534	4.4754
1253.	1415.	6021.	0.755	0.2038	0.0969	2.1043	0.7581	4.2551
1301.	1553.	6542.	0.794	0.2054	0.0974	2.1087	0.7627	4.1067
1351.	1825.	7145.	0.814	0.2081	0.0997	2.0879	0.7600	3.9156
1400.	2068.	7771.	0.844	0.2107	0.1015	2.0763	0.7606	3.7577
1450.	2359.	8500.	0.874	0.2149	0.1042	2.0621	0.7628	3.6032
1499.	2701.	9229.	0.903	0.2183	0.1080	2.0215	0.7537	3.4169
1551.	3064.	9958.	0.935	0.2200	0.1106	1.9895	0.7447	3.2500

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1225.	5466.	819.	1203.	0.2008	0.0948	2.118	0.757	4.461
0.750	1375.	5907.	847.	1244.	0.2027	0.0961	2.111	0.758	4.298
0.775	1537.	6369.	875.	1286.	0.2047	0.0973	2.103	0.759	4.144
0.800	1714.	6860.	904.	1327.	0.2069	0.0987	2.096	0.761	4.002
0.825	1905.	7369.	932.	1369.	0.2090	0.1000	2.090	0.763	3.869
0.850	2131.	7939.	960.	1410.	0.2121	0.1023	2.074	0.762	3.726
0.875	2378.	8514.	988.	1452.	0.2147	0.1046	2.052	0.759	3.580
0.900	2650.	9111.	1016.	1493.	0.2172	0.1072	2.027	0.754	3.438
0.925	2946.	9730.	1045.	1535.	0.2196	0.1097	2.001	0.748	3.303

STATIC PROP PERFORMANCE

7X01 PRCP 15JUN66 504 NO 315

BETA=15.0 AF= 00.0 DIA=13.000 NBL=4 T WPC= 23.5 L WPR= 532.99 SIGMA=0.9520

***** 6A. DATA POINTS *****

RPM	HP	TH	TVACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1004.	550.	4118.	0.603	0.2171	0.1131	1.9198	0.7139	4.8447
1050.	989.	4559.	0.631	0.2198	0.1150	1.9103	0.7147	4.6097
1103.	1135.	5000.	0.673	0.2194	0.1140	1.9161	0.7146	4.4014
1152.	1332.	5588.	0.692	0.2238	0.1173	1.9074	0.7201	4.1952
1203.	1515.	6155.	0.703	0.2260	0.1173	1.9277	0.7314	4.0600
1251.	1745.	6765.	0.751	0.2297	0.1200	1.9141	0.7322	3.8768
1296.	1973.	7332.	0.778	0.2320	0.1221	1.9008	0.7306	3.7162
1351.	2294.	8130.	0.811	0.2367	0.1253	1.8897	0.7337	3.5440
1399.	2599.	8824.	0.840	0.2395	0.1278	1.8747	0.7323	3.3952
1448.	2957.	9643.	0.870	0.2444	0.1316	1.8574	0.7328	3.2501
1500.	3445.	10557.	0.901	0.2496	0.1375	1.8159	0.7240	3.0673
1543.	3901.	11282.	0.920	0.2502	0.1416	1.7670	0.7053	2.8921

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1541.	6210.	822.	1207.	0.2266	0.1180	1.920	0.729	4.030
0.750	1734.	6731.	850.	1249.	0.2295	0.1199	1.913	0.731	3.882
0.775	1941.	7268.	878.	1290.	0.2320	0.1217	1.906	0.733	3.743
0.800	2177.	7841.	907.	1332.	0.2349	0.1241	1.893	0.732	3.602
0.825	2427.	8444.	935.	1373.	0.2379	0.1262	1.886	0.734	3.479
0.850	2721.	9119.	963.	1415.	0.2420	0.1293	1.872	0.735	3.352
0.875	3051.	9786.	992.	1457.	0.2451	0.1329	1.844	0.728	3.207
0.900	3418.	10473.	1020.	1498.	0.2479	0.1368	1.812	0.720	3.054
0.925	3822.	11160.	1048.	1540.	0.2506	0.1409	1.778	0.710	2.925

STATIC PROP PERFORMANCE

47X91 PROP 15JUN66 RUM NO 313

REFN=18.0 AF= 90.0 DIA=13.000 JUL=4 T WPC= -1.5 TEMPO= 330.39 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1003.	1014.	4458.	0.603	0.2369	0.1365	1.7352	0.6740	4.3964
1047.	1161.	4875.	0.621	0.2364	0.1362	1.7351	0.6732	4.1990
1100.	1353.	5458.	0.663	0.2397	0.1375	1.7436	0.6813	4.0162
1143.	1573.	6021.	0.692	0.2424	0.1396	1.7358	0.6820	3.8277
1198.	1792.	5604.	0.722	0.2446	0.1404	1.7425	0.6877	3.6853
1249.	2065.	7333.	0.753	0.2498	0.1427	1.7505	0.6982	3.5511
1300.	2396.	8021.	0.783	0.2523	0.1469	1.7176	0.6884	3.3477
1350.	2734.	8906.	0.814	0.2597	0.1496	1.7357	0.7059	3.2575
1403.	3197.	9813.	0.846	0.2650	0.1559	1.6997	0.6982	3.0694
1452.	3676.	10638.	0.875	0.2694	0.1617	1.6662	0.6902	2.9075
1501.	4229.	11625.	0.905	0.2742	0.1684	1.6285	0.6805	2.7483

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1820.	6674.	819.	1203.	0.2451	0.1408	1.741	0.688	3.666
0.750	2047.	7240.	847.	1244.	0.2485	0.1430	1.737	0.691	3.537
0.775	2292.	7846.	875.	1286.	0.2522	0.1452	1.737	0.696	3.423
0.800	2576.	8508.	904.	1327.	0.2566	0.1483	1.730	0.699	3.303
0.825	2896.	9202.	932.	1369.	0.2610	0.1521	1.717	0.700	3.177
0.850	3266.	9926.	960.	1410.	0.2652	0.1568	1.692	0.695	3.040
0.875	3679.	10686.	988.	1452.	0.2695	0.1619	1.664	0.689	2.905
0.900	4136.	11481.	1016.	1493.	0.2736	0.1672	1.636	0.693	2.776

STATIC PROP PERFORMANCE

47X91 PROP 15JUNE66 RUN NO 316

BETA=20.0 AF= 90.0 DIA=13.000 NBL=4 RPMPC= 23.5 TEMPR= 533.99 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	1221.	4792.	0.601	0.2547	0.1658	1.5364	0.6187	3.8928
1052.	1448.	5359.	0.632	0.2559	0.1670	1.5324	0.6186	3.6872
1094.	1641.	5822.	0.660	0.2567	0.1669	1.5375	0.6216	3.5478
1151.	1912.	6474.	0.691	0.2597	0.1689	1.5382	0.6256	3.3860
1200.	2195.	7105.	0.721	0.2622	0.1711	1.5330	0.6265	3.2369
1250.	2515.	7840.	0.751	0.2667	0.1734	1.5379	0.6338	3.1173
1304.	2864.	8471.	0.783	0.2648	0.1739	1.5222	0.6251	2.9578
1351.	3290.	9354.	0.811	0.2724	0.1797	1.5160	0.6314	2.8432
1390.	3762.	10257.	0.840	0.2789	0.1854	1.5044	0.6340	2.7265
1441.	4246.	11056.	0.866	0.2830	0.1911	1.4809	0.6287	2.6039

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2226.	7192.	822.	1207.	0.2624	0.1706	1.538	0.628	3.228
0.750	2498.	7766.	850.	1249.	0.2647	0.1728	1.532	0.629	3.109
0.775	2785.	8353.	878.	1290.	0.2667	0.1746	1.527	0.629	2.999
0.800	3116.	9014.	907.	1332.	0.2701	0.1776	1.521	0.631	2.893
0.825	3507.	9748.	935.	1373.	0.2746	0.1822	1.507	0.630	2.780
0.850	3947.	10549.	953.	1415.	0.2799	0.1876	1.493	0.630	2.672

STATIC PROP P

-7X92 PROP 20 JUN-66 RUN NO 319

BETA= 2.0 AF= 99.0 DIA=15.000 VAL=4 T-MPC= 23.0 T-MPR= 533.09 SIGMA=0.9500

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1004.	174.	1271.	0.604	0.0570	0.0232	2.8945	0.5980	7.3046
1050.	198.	1396.	0.621	0.0673	0.0230	2.9218	0.6049	7.0505
1099.	233.	1542.	0.650	0.0680	0.0237	2.8680	0.5967	5.6180
1147.	260.	1683.	0.690	0.0682	0.0232	2.9391	0.6125	5.4923
1201.	300.	1865.	0.722	0.0637	0.0233	2.9468	0.6164	6.2167
1250.	341.	2000.	0.751	0.0690	0.0235	2.8935	0.6023	5.8651
1301.	385.	2167.	0.782	0.0680	0.0236	2.8827	0.6001	5.6140
1350.	431.	2292.	0.812	0.0668	0.0236	2.8335	0.5846	5.3179
1401.	480.	2458.	0.842	0.0666	0.0235	2.8315	0.5829	5.1208
1450.	530.	2625.	0.872	0.0664	0.0234	2.8344	0.5827	4.9528
1502.	597.	2792.	0.903	0.0658	0.0237	2.7724	0.5674	4.6767
1550.	664.	2979.	0.932	0.0659	0.0240	2.7446	0.5623	4.4864

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	QT	CP	CT/CP	FM	TH/HP
0.725	304.	1876.	821.	1206.	0.0685	0.0234	2.932	0.613	6.161
0.750	338.	2000.	849.	1248.	0.0683	0.0234	2.917	0.608	5.923
0.775	375.	2123.	878.	1289.	0.0679	0.0236	2.881	0.599	5.663
0.800	413.	2242.	906.	1331.	0.0673	0.0236	2.852	0.590	5.429
0.825	451.	2371.	934.	1372.	0.0669	0.0235	2.847	0.588	5.256
0.850	492.	2497.	962.	1414.	0.0664	0.0234	2.832	0.582	5.074
0.875	539.	2635.	991.	1456.	0.0661	0.0236	2.807	0.576	4.887
0.900	591.	2781.	1019.	1497.	0.0659	0.0237	2.781	0.570	4.706
0.925	647.	2934.	1047.	1539.	0.0659	0.0239	2.754	0.564	4.535

STATIC PROP PERFORMANCE

47X92 PRP 20 JUNE 56 RUN 4.0 319

BETA= 4.0 AF= 30.0 DIA=13.000 THL=4 T WPC= 24.0 TEMPR= 534.89 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	TH/MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
990.	204.	1548.	0.507	0.0853	0.0279	3.0570	0.7123	7.7843
1050.	240.	1797.	0.600	0.0866	0.0290	2.9903	0.7025	7.2169
1105.	297.	1936.	0.644	0.0867	0.0296	2.9336	0.6894	6.7205
1144.	325.	2121.	0.659	0.0855	0.0289	2.9570	0.6901	6.5262
1201.	374.	2330.	0.721	0.0859	0.0294	2.9218	0.6832	6.1640
1251.	422.	2550.	0.751	0.0868	0.0290	2.7835	0.7006	6.0427
1297.	468.	2717.	0.778	0.0858	0.0269	2.9719	0.6948	5.8055
1293.	469.	2717.	0.780	0.0856	0.0288	2.9701	0.6934	5.7932
1351.	529.	2935.	0.811	0.0855	0.0289	2.9594	0.6905	5.5501
1352.	519.	2867.	0.811	0.0832	0.0283	2.9436	0.6777	5.5164
1400.	582.	3114.	0.840	0.0844	0.0286	2.9564	0.6856	5.3505
1407.	596.	3145.	0.844	0.0844	0.0288	2.9303	0.6795	5.2768
1454.	672.	3386.	0.873	0.0851	0.0295	2.8872	0.6722	5.0312
1504.	743.	3635.	0.903	0.0854	0.0294	2.9049	0.6776	4.8937
1552.	828.	3877.	0.931	0.0855	0.0298	2.8682	0.6694	4.6824

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 F

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	352.	2361.	822.	1208.	0.0860	0.0291	2.950	0.690	6.188
0.750	421.	2525.	851.	1250.	0.0859	0.0290	2.960	0.692	6.002
0.775	463.	2697.	879.	1291.	0.0860	0.0290	2.967	0.694	5.822
0.800	504.	2836.	907.	1333.	0.0848	0.0287	2.958	0.688	5.623
0.825	551.	2997.	936.	1375.	0.0843	0.0286	2.952	0.684	5.441
0.850	610.	3194.	964.	1416.	0.0846	0.0289	2.977	0.680	5.237
0.875	673.	3406.	992.	1458.	0.0852	0.0293	2.911	0.578	5.058
0.900	740.	3516.	1021.	1500.	0.0854	0.0295	2.893	0.675	4.888
0.925	809.	3823.	1049.	1541.	0.0855	0.0297	2.875	0.671	4.727

STATIC PROP PERFORMANCE

47X92 PROP 20JUNE65 RUN NO 320

NETA= 6.0 AF= 92.0 DIA=13.000 NBL=4 T=20.0 I=25.0 I=PR= 536.69 SIGMA=0.9530

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1001.	262.	2015.	0.600	0.1069	0.0352	3.0385	0.7927	7.6908
1052.	305.	2183.	0.631	0.1046	0.0352	2.9746	0.7679	7.1574
1097.	357.	2403.	0.657	0.1061	0.0364	2.9143	0.7576	6.7311
1151.	410.	2623.	0.690	0.1052	0.0362	2.9063	0.7523	6.3975
1199.	465.	2854.	0.718	0.1055	0.0363	2.9045	0.7529	6.1376
1246.	511.	3012.	0.747	0.1031	0.0356	2.8987	0.7428	5.8943
1248.	512.	3064.	0.748	0.1046	0.0355	2.9477	0.7606	5.9844
1302.	597.	3389.	0.780	0.1063	0.0364	2.9171	0.7588	5.6767
1354.	657.	3631.	0.811	0.1053	0.0356	2.9534	0.7647	5.5266
1399.	729.	3841.	0.838	0.1043	0.0359	2.9092	0.7498	5.2689
1445.	843.	4155.	0.878	0.1053	0.0374	2.8168	0.7295	4.9288
1500.	936.	4512.	0.899	0.1066	0.0373	2.8538	0.7435	4.8205
1551.	1041.	4827.	0.929	0.1066	0.0376	2.8385	0.7397	4.6369

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	471.	2876.	824.	1210.	0.1044	0.0358	2.914	0.751	6.102
0.750	523.	3094.	852.	1252.	0.1049	0.0359	2.926	0.756	5.921
0.775	576.	3307.	880.	1294.	0.1051	0.0358	2.933	0.759	5.745
0.800	631.	3533.	909.	1335.	0.1053	0.0357	2.951	0.764	5.600
0.825	701.	3747.	937.	1377.	0.1050	0.0362	2.906	0.752	5.347
0.850	774.	3977.	966.	1419.	0.1050	0.0365	2.876	0.744	5.137
0.875	853.	4228.	994.	1460.	0.1054	0.0369	2.858	0.740	4.959
0.900	938.	4499.	1022.	1502.	0.1060	0.0373	2.844	0.739	4.798
0.925	1029.	4790.	1051.	1544.	0.1068	0.0377	2.835	0.740	4.653

STATIC PROP PERFORMANCE

47X92 PROP 20 JUN 66 RUN NO 321

BETA= 8.0 M= 0.0.0 DIA=12.000 YPL=4 TUPPC= 25.5 TUPP= 537.59 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	325.	2396.	0.599	0.1273	0.0451	2.9228	0.8039	7.1522
1040.	384.	2606.	0.627	0.1261	0.0449	2.8070	0.7955	6.7865
1101.	455.	2901.	0.649	0.1272	0.0460	2.7645	0.7868	5.3618
1146.	514.	3163.	0.686	0.1280	0.0460	2.7833	0.7947	6.1537
1197.	583.	3437.	0.717	0.1275	0.0462	2.7568	0.7855	5.8353
1243.	673.	3741.	0.747	0.1277	0.0466	2.7380	0.7807	5.5587
1297.	751.	4057.	0.776	0.1282	0.0464	2.7654	0.7901	5.4021
1350.	867.	4435.	0.808	0.1293	0.0475	2.7255	0.7822	5.1153
1400.	977.	4792.	0.838	0.1299	0.0479	2.7102	0.7796	4.9048
1454.	1090.	5213.	0.870	0.1311	0.0478	2.7445	0.7929	4.7826
1500.	1225.	5570.	0.898	0.1316	0.0489	2.6897	0.7786	4.5432
1548.	1375.	6012.	0.927	0.1333	0.0499	2.6714	0.7784	4.3724

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	609.	3520.	824.	1211.	0.1275	0.0462	2.763	0.787	5.779
0.750	677.	3774.	853.	1253.	0.1278	0.0464	2.755	0.786	5.572
0.775	753.	4043.	881.	1295.	0.1282	0.0467	2.743	0.784	5.368
0.800	836.	4331.	910.	1336.	0.1289	0.0472	2.731	0.783	5.179
0.825	922.	4634.	938.	1378.	0.1297	0.0474	2.734	0.786	5.026
0.850	1016.	4942.	966.	1420.	0.1303	0.0478	2.725	0.785	4.862
0.875	1123.	5271.	995.	1462.	0.1311	0.0484	2.709	0.783	4.696
0.900	1238.	5616.	1023.	1503.	0.1321	0.0490	2.693	0.781	4.538
0.925	1362.	5977.	1052.	1545.	0.1331	0.0497	2.677	0.779	4.389

STATIC PROP PERFORMANCE

67X02 PROP 21JUN65 RUN NO 322

BETA=10.0 AF= 90.0 DIA=12.000 NBL=4 RPMPC= 22.5 THPP= 33.19 SIGMA=0.9630

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1001.	418.	2710.	0.602	0.1437	0.0561	2.5614	0.7750	6.4833
1002.	434.	2170.	0.603	0.1149	0.0581	1.9773	0.5348	5.0000
1049.	495.	3032.	0.631	0.1464	0.0579	2.5309	0.7729	6.1129
1055.	499.	3011.	0.635	0.1438	0.0572	2.5125	0.7603	5.0341
1100.	575.	3281.	0.662	0.1441	0.0583	2.4730	0.7492	5.6962
1104.	574.	3344.	0.664	0.1458	0.0574	2.5384	0.7735	5.8258
1152.	655.	3675.	0.693	0.1472	0.0578	2.5478	0.7801	5.6037
1154.	671.	3697.	0.694	0.1475	0.0588	2.5094	0.7692	5.5097
1202.	765.	4020.	0.723	0.1482	0.0593	2.4985	0.7676	5.2667
1247.	831.	4361.	0.750	0.1491	0.0612	2.4362	0.7506	4.9501
1299.	955.	4818.	0.782	0.1518	0.0611	2.4825	0.7717	4.8422
1351.	1114.	5213.	0.813	0.1518	0.0608	2.4952	0.7758	4.6795
1400.	1259.	5623.	0.842	0.1526	0.0618	2.4700	0.7700	4.4702
1450.	1412.	6115.	0.872	0.1546	0.0624	2.4788	0.7778	4.3314
1502.	1593.	6625.	0.904	0.1561	0.0633	2.4654	0.7772	4.1588
1554.	1831.	7269.	0.925	0.1600	0.0657	2.4349	0.7772	3.9700

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 F

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	730.	4059.	820.	1205.	0.1486	0.0600	2.476	0.761	5.205
0.750	874.	4374.	848.	1247.	0.1496	0.0608	2.461	0.760	5.002
0.775	967.	4703.	877.	1288.	0.1507	0.0610	2.471	0.765	4.861
0.800	1058.	5041.	905.	1330.	0.1515	0.0612	2.476	0.769	4.719
0.825	1174.	5392.	933.	1371.	0.1524	0.0613	2.487	0.775	4.595
0.850	1239.	5742.	952.	1413.	0.1529	0.0616	2.494	0.775	4.455
0.875	1427.	6145.	970.	1454.	0.1544	0.0625	2.472	0.775	4.307
0.900	1581.	6584.	1018.	1496.	0.1564	0.0636	2.459	0.776	4.164
0.925	1752.	7058.	1046.	1537.	0.1587	0.0649	2.445	0.777	4.029

STATIC PROP PERFORMANCE

7X92 PROP 2100456 001 30 223

REF=12.0 RE=90.0 DIA=12.000 TPL=4 T-MPC= 23.5 T-MPR= 232.99 SIGMA=0.9610

***** DATA POINTS *****

RPM	HP	TH	T-MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1003.	531.	3153.	0.602	0.1666	0.0709	2.3506	0.7656	5.9379
1050.	625.	3559.	0.631	0.1716	0.0728	2.3561	0.7788	5.6853
1097.	697.	3950.	0.659	0.1700	0.0711	2.356	0.7870	5.5237
1099.	703.	3929.	0.660	0.1685	0.0713	2.3625	0.7739	5.4467
1155.	834.	4287.	0.694	0.1708	0.0729	2.3432	0.7728	5.1403
1199.	922.	4553.	0.720	0.1685	0.0720	2.3394	0.7664	4.9435
1250.	1050.	5078.	0.751	0.1727	0.0730	2.3657	0.7846	4.7951
1303.	1202.	5536.	0.783	0.1733	0.0732	2.3685	0.7868	4.6057
1356.	1357.	5932.	0.814	0.1715	0.0733	2.3395	0.7731	4.3714
1405.	1545.	6493.	0.844	0.1748	0.0750	2.3304	0.7776	4.2026
1450.	1771.	7046.	0.871	0.1791	0.0782	2.2898	0.7734	4.0011
1507.	2020.	7867.	0.905	0.1841	0.0795	2.3164	0.7932	3.8946
1546.	2230.	8545.	0.929	0.1856	0.0813	2.2834	0.7849	3.7422

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	949.	4692.	822.	1207.	0.1712	0.0726	2.356	0.778	4.946
0.750	1054.	5058.	850.	1249.	0.1718	0.0729	2.355	0.779	4.779
0.775	1162.	5388.	878.	1290.	0.1720	0.0729	2.361	0.781	4.636
0.800	1284.	5763.	907.	1332.	0.1727	0.0732	2.359	0.782	4.488
0.825	1431.	6152.	935.	1373.	0.1733	0.0744	2.331	0.774	4.299
0.850	1597.	6530.	963.	1415.	0.1760	0.0759	2.318	0.776	4.151
0.875	1750.	7138.	992.	1457.	0.1798	0.0775	2.306	0.778	4.010
0.900	1941.	7693.	1020.	1498.	0.1821	0.0793	2.297	0.782	3.884
0.925	2139.	8297.	1048.	1540.	0.1859	0.0811	2.293	0.789	3.772

STATIC PROP PERFORMANCE

47A02 PROP 21 JUNE 66 RUN NO 324

BETA=14.0 AF= 90.0 DIA=13.000 TBL=4 TWP/C= 26.0 TEMPR= 538.49 SIGMA=0.9530

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	620.	3205.	0.598	0.1863	0.0848	2.1958	0.7563	5.5635
1050.	753.	3247.	0.628	0.1922	0.0876	2.1942	0.7677	5.2948
1100.	853.	4302.	0.658	0.1890	0.0878	2.1517	0.7464	4.9562
1150.	1016.	4806.	0.688	0.1931	0.0900	2.1470	0.7530	4.7303
1201.	1165.	5310.	0.718	0.1957	0.0906	2.1587	0.7620	4.5540
1251.	1344.	5939.	0.748	0.2017	0.0924	2.1818	0.7819	4.4189
1299.	1524.	6401.	0.777	0.2016	0.0936	2.1534	0.7716	4.2001
1353.	1722.	6905.	0.809	0.2005	0.0936	2.1413	0.7651	4.0099
1396.	1949.	7513.	0.835	0.2049	0.0965	2.1239	0.7672	3.8548
1449.	2201.	8080.	0.867	0.2045	0.0974	2.0994	0.7577	3.6711
1493.	2541.	8919.	0.897	0.2110	0.1016	2.0766	0.7611	3.5100
1551.	2925.	9767.	0.928	0.2158	0.1056	2.0441	0.7577	3.3391

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 I

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1210.	5482.	825.	1212.	0.1983	0.0915	2.167	0.770	4.529
0.750	1247.	5906.	853.	1254.	0.1996	0.0920	2.170	0.774	4.384
0.775	1504.	6358.	882.	1296.	0.2013	0.0931	2.162	0.774	4.227
0.800	1674.	6815.	910.	1337.	0.2025	0.0942	2.148	0.771	4.070
0.825	1852.	7243.	939.	1379.	0.2024	0.0950	2.129	0.764	3.911
0.850	2059.	7761.	967.	1421.	0.2043	0.0966	2.114	0.763	3.770
0.875	2303.	8344.	996.	1463.	0.2072	0.0991	2.092	0.760	3.623
0.900	2579.	8966.	1024.	1505.	0.2110	0.1020	2.069	0.758	3.484
0.925	2837.	9688.	1053.	1546.	0.2153	0.1051	2.048	0.758	3.356

STATIC PROPP PERFORMANCE

47X02 PROPP 21J01ES6 RUN NO 325

BETA=15.0 CT= 70.0 DIA=13.000 NPL=4 TEMPC= 27.0 TLMPR= 540.29 SIGMA=0.9490

***** CAL DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	792.	3931.	0.597	0.2116	0.1067	1.9839	0.7282	5.0265
1050.	947.	4406.	0.631	0.2129	0.1083	1.9655	0.7236	4.7159
1100.	1074.	4855.	0.657	0.2133	0.1087	1.9626	0.7232	4.5205
1140.	1239.	5413.	0.686	0.2183	0.1103	1.9795	0.7380	4.3688
1200.	1410.	5856.	0.717	0.2161	0.1099	1.9670	0.7298	4.1532
1240.	1617.	6467.	0.745	0.2203	0.1118	1.9715	0.7385	3.9994
1300.	1870.	7141.	0.776	0.2246	0.1146	1.9593	0.7410	3.8187
1352.	2139.	7825.	0.807	0.2275	0.1166	1.9521	0.7430	3.6583
1407.	2463.	8594.	0.840	0.2307	0.1191	1.9376	0.7427	3.4892
1452.	2756.	9310.	0.867	0.2347	0.1230	1.9082	0.7377	3.3298
1494.	3203.	10173.	0.895	0.2409	0.1286	1.8743	0.7342	3.1701
1551.	3833.	11015.	0.926	0.2434	0.1401	1.7367	0.6837	2.3370

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1473.	6064.	926.	1214.	0.2186	0.1108	1.973	0.736	4.116
0.750	1652.	6557.	855.	1256.	0.2209	0.1123	1.968	0.738	3.969
0.775	1851.	7079.	883.	1299.	0.2234	0.1140	1.959	0.739	3.825
0.800	2071.	7660.	912.	1340.	0.2268	0.1160	1.955	0.743	3.698
0.825	2309.	8232.	940.	1382.	0.2292	0.1179	1.944	0.743	3.565
0.850	2569.	8877.	969.	1423.	0.2328	0.1199	1.941	0.748	3.455
0.875	2926.	9548.	997.	1465.	0.2364	0.1252	1.887	0.732	3.263
0.900	3348.	10260.	1026.	1507.	0.2401	0.1317	1.823	0.713	3.065
0.925	3834.	11012.	1054.	1549.	0.2439	0.1389	1.756	0.692	2.872

STATIC PROPP PERFORMANCE

-7403 PROP 24JUL69 REV. 10 378

DEPTH= 2.0 WF=120.0 DIA=13.000 INCH. PRODC= 10.5 PRESS= 244.29 SLIP= 0.9360

***** A. AIA VALUES *****

RPM	HP	T ₀	T ₀ /RACH	ACT	RCP	CT/CP	4FW	FTW/MP
1002.	162.	1246.	0.535	0.0546	0.0217	3.1634	0.5613	4.0000
1056.	191.	1479.	0.626	0.0707	0.0220	3.1190	0.5931	7.7382
1093.	217.	1585.	0.652	0.0697	0.0220	3.1642	0.5677	7.3041
1150.	243.	1724.	0.673	0.0693	0.0220	3.1425	0.5601	5.9237
1200.	269.	1844.	0.712	0.0695	0.0225	3.0475	0.5497	5.5190
1252.	331.	2034.	0.743	0.0690	0.0227	3.0365	0.6363	5.1453
1300.	375.	2194.	0.772	0.0687	0.0230	2.9842	0.6249	5.3240
1302.	375.	2227.	0.773	0.0698	0.0229	3.0517	0.6437	5.9387
1350.	415.	2377.	0.801	0.0693	0.0227	3.0518	0.6412	5.7277
1352.	422.	2355.	0.803	0.0685	0.0230	2.9778	0.6218	5.5806
1394.	470.	2527.	0.830	0.0637	0.0232	2.9266	0.6204	5.3766
1402.	477.	2543.	0.832	0.0589	0.0233	2.9554	0.5191	4.3417
1450.	533.	2719.	0.861	0.0697	0.0235	2.9194	0.6108	5.1513
1493.	600.	2911.	0.890	0.0684	0.0240	2.8506	0.5949	4.9193
1554.	684.	3105.	0.923	0.0683	0.0245	2.7942	0.5908	4.5195

***** FITTED CURVE DATA FOR CONSTANT RACH NUMBER INCREMENTS ***** IMP. 5 POINT 2ND ORDER. TM. 6 2

MACH	HP	TM	TIPS	RPM	CT	CP	CT/CP	FW	TM/MP
0.725	205.	1942.	831.	1221.	0.0692	0.0225	3.069	0.644	6.368
0.750	242.	2078.	850.	1253.	0.0692	0.0229	3.030	0.636	6.076
0.775	377.	2217.	889.	1305.	0.0692	0.0226	3.028	0.635	5.878
0.800	417.	2358.	917.	1347.	0.0690	0.0229	3.009	0.631	5.658
0.925	461.	2497.	946.	1390.	0.0685	0.0231	2.974	0.622	5.422
0.950	511.	2651.	975.	1432.	0.0687	0.0234	2.934	0.514	5.192
0.875	555.	2806.	1003.	1474.	0.0686	0.0238	2.888	0.604	6.956
0.900	625.	2961.	1032.	1516.	0.0685	0.0242	2.835	0.592	4.738

STATIC PUMP PERFORMANCE

7000 RPM 24 JUNE 65 10440 329

NOTE: 6.0 MP=170.0 METERS, 0.000 METERS PER 0.010 INCHES, 0.000 METERS PER 0.010 INCHES

***** PUMP OUTPUTS *****

RPM	HP	IN	FEET	CT	KCP	CT/CP	CFM	FTW/HP
1005.	224.	1683.	0.596	0.0297	0.0297	2.0802	0.7077	7.2134
1044.	254.	1934.	0.622	0.0297	0.0297	1.0191	0.7217	7.2992
1092.	284.	2035.	0.651	0.0297	0.0297	1.1043	0.7428	7.1690
1150.	324.	2251.	0.682	0.0296	0.0296	1.0589	0.7342	5.7395
1201.	373.	2422.	0.712	0.0290	0.0290	1.0774	0.7338	5.4033
1251.	423.	2537.	0.742	0.0291	0.0291	1.0780	0.7351	5.2340
1300.	461.	2651.	0.771	0.0297	0.0297	1.0412	0.7267	5.9272
1349.	542.	3033.	0.800	0.0297	0.0297	2.0794	0.7076	5.5959
1400.	603.	3230.	0.830	0.0299	0.0299	2.0809	0.7094	5.3947
1449.	672.	3516.	0.850	0.0299	0.0299	2.0749	0.7092	5.2089
1490.	753.	3751.	0.869	0.0302	0.0302	2.0452	0.7005	4.9914
1551.	849.	4030.	0.920	0.0306	0.0306	2.0071	0.6927	4.7524

***** FITTED CURVE DATA FOR CURVE 1 ***** INCHES PER 0.010 INCHES, 0.000 METERS PER 0.010 INCHES, 0.000 METERS PER 0.010 INCHES

MACH	HP	IN	FEET	RPM	CT	CP	CT/CP	CFM	FTW/HP
0.725	396.	2523.	832.	1222.	0.0898	0.0292	3.077	0.736	6.378
0.750	439.	2697.	861.	1254.	0.0874	0.0292	3.056	0.729	6.124
0.775	439.	2864.	839.	1306.	0.0892	0.0295	3.072	0.720	5.862
0.800	540.	3049.	918.	1349.	0.0891	0.0297	3.003	0.715	5.641

UNDERFLOW AT 61561 IN MQ

UNDERFLOW AT 61661 IN MQ

UNDERFLOW AT 61661 IN MQ

MACH	HP	IN	FEET	RPM	CT	CP	CT/CP	CFM	FTW/HP
0.825	596.	3235.	957.	1391.	0.0889	0.0294	2.991	0.709	5.431
0.850	651.	3431.	975.	1433.	0.0854	0.0294	2.971	0.704	5.253
0.875	710.	3536.	1004.	1475.	0.0849	0.0301	2.951	0.702	5.058
0.900	747.	3552.	1033.	1517.	0.0849	0.0301	2.931	0.697	4.894

STATIC PRESSURE PERFORMANCE

47000 RPM 27 JUNE 69 400 IN 330

REF: 5.0 RE=120.0 DIA=12.000 VALVE 1 PC. 10.0 IF 10.0 55.69 SLUGS=0.2360

***** DATA POINTS *****

RPM	HP	TH	TVACH	RCF	SCP	CT/CP	CFM	RTM/MP
1000.	283.	1937.	0.594	0.1056	0.0381	2.7711	0.7186	7.0212
1050.	327.	2501.	0.677	0.1051	0.0396	2.7195	0.7035	5.5312
1092.	373.	2393.	0.672	0.1055	0.0379	2.7902	0.7206	6.4155
1147.	420.	2607.	0.672	0.1053	0.0375	2.8100	0.7277	5.2071
1198.	463.	2799.	0.712	0.1037	0.0363	2.8584	0.7364	6.0456
1200.	464.	2831.	0.713	0.1045	0.0362	2.8897	0.7454	6.1013
1249.	522.	3045.	0.742	0.1037	0.0368	2.8215	0.7252	5.7237
1250.	523.	3034.	0.743	0.1032	0.0361	2.8620	0.7337	5.8011
1290.	617.	3333.	0.772	0.1050	0.0379	2.7695	0.7161	5.4019
1305.	599.	3248.	0.775	0.1014	0.0363	2.7928	0.7096	5.4224
1320.	624.	3419.	0.798	0.1033	0.0360	2.8675	0.7356	5.4792
1353.	656.	3654.	0.804	0.1061	0.0378	2.8035	0.7287	5.2503
1399.	775.	3964.	0.831	0.1078	0.0392	2.8195	0.7385	5.1082
1451.	937.	4252.	0.842	0.1073	0.0391	2.7453	0.7177	4.7937
1497.	943.	4444.	0.899	0.1054	0.0387	2.7266	0.7064	4.6147
1503.	961.	4476.	0.893	0.1053	0.0381	2.7629	0.7155	4.6576
1553.	1074.	4829.	0.923	0.1064	0.0386	2.7559	0.7174	4.4963

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER, TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	CFM	TM/MP
0.725	487.	2702.	831.	1220.	0.1036	0.0361	2.868	0.737	5.956
0.750	550.	3101.	959.	1262.	0.1034	0.0369	2.909	0.721	5.638
0.775	605.	3297.	998.	1304.	0.1030	0.0367	2.865	0.718	5.449
0.800	675.	3599.	916.	1346.	0.1055	0.0373	2.832	0.734	5.330
0.825	751.	3701.	945.	1384.	0.1075	0.0383	2.808	0.735	5.125
0.850	846.	4154.	974.	1431.	0.1079	0.0389	2.771	0.726	4.908
0.875	917.	4342.	1002.	1473.	0.1064	0.0386	2.764	0.717	4.738
0.900	976.	4580.	1031.	1515.	0.1061	0.0386	2.749	0.714	4.598

STATIC PERFORMANCE

47003 AND 27 JUL 66 RUN NO 33146000 OF RUN 00301

NETA= 5.0 AF=120.0 DIA=13.000 INCH 4 I HPC= 30.0 I HPC= 30.0 I HPC= 30.0 I HPC= 30.0 I HPC= 30.0

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCF	RCP	RCI/CP	RFM	ATH/MP
1000	265	2009	0.507	0.1057	0.0378	2.7961	0.7255	7.0491
1047	321	2177	0.612	0.1056	0.0377	2.8051	0.7276	6.7882
1105	375	2415	0.657	0.1051	0.0374	2.8085	0.7267	5.4400
1145	415	2528	0.652	0.1050	0.0370	2.8623	0.7436	5.3173
1206	485	2906	0.717	0.1052	0.0373	2.8461	0.7401	5.9794
1250	543	3077	0.743	0.1047	0.0374	2.7956	0.7219	5.6667
1293	611	3355	0.771	0.1058	0.0376	2.8130	0.7303	5.4910
1347	682	3611	0.800	0.1058	0.0376	2.8149	0.7306	5.2947
1401	789	3932	0.837	0.1054	0.0380	2.7729	0.7184	4.9898
1450	863	4167	0.862	0.1053	0.0381	2.7633	0.7157	4.8295
1500	953	4444	0.891	0.1050	0.0380	2.7607	0.7138	4.6632
1551	1063	4765	0.923	0.1050	0.0384	2.7347	0.7072	4.4616

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 5 PCINT 2ND ORDER, TM, 5 M

MACH	HP	TH	TIPS	RPM	CT	CP	CI/CP	FM	TH/MP
0.725	504	2958	831	1120	0.1056	0.0373	2.879	0.733	5.871
0.750	559	3164	859	1262	0.1056	0.0374	2.870	0.731	5.660
0.775	619	3379	899	1304	0.1056	0.0376	2.811	0.729	5.460
0.800	633	3599	916	1346	0.1055	0.0377	2.798	0.725	5.265
0.825	753	3934	965	1388	0.1057	0.0379	2.790	0.724	5.091
0.850	826	4056	974	1431	0.1053	0.0380	2.774	0.719	4.914
0.875	904	4292	1092	1473	0.1052	0.0381	2.761	0.715	4.750
0.900	957	4535	1091	1515	0.1051	0.0382	2.748	0.711	4.596

STATIC PROP PERFORMANCE

47003 PROP 27JUL69 RUN 332

PETA= 3.0 RE=120.0 CL=13.00 TLR=1.00 PC=24.0 TEM=247.09 SIGMA=0.0430

***** A M3 VALUES *****

PROP	HP	TIN	TIPS	RPM	QCT	PCP	ACT/CP	RFW	RTM/MP
997.	361.	2334.	0.594	0.1259	0.0491	2.5659	0.7264	5.5209	
1050.	411.	2630.	0.626	0.1269	0.0490	2.6390	0.7499	5.3682	
1101.	445.	2927.	0.656	0.1293	0.0490	2.6171	0.7482	5.0225	
1103.	473.	2905.	0.658	0.1270	0.0491	2.6411	0.7509	6.0668	
1150.	546.	3139.	0.689	0.1262	0.0482	2.6190	0.7423	5.7702	
1200.	620.	3404.	0.715	0.1256	0.0483	2.6003	0.7355	5.4903	
1251.	701.	3712.	0.746	0.1261	0.0482	2.6145	0.7408	5.2953	
1300.	791.	4072.	0.776	0.1291	0.0485	2.6413	0.7543	5.1479	
1350.	885.	4390.	0.805	0.1280	0.0485	2.6400	0.7538	4.9549	
1401.	1010.	4772.	0.836	0.1290	0.0494	2.6144	0.7494	4.7248	
1443.	1126.	5133.	0.863	0.1301	0.0504	2.5823	0.7433	4.5185	
1494.	1277.	5517.	0.897	0.1316	0.0505	2.6026	0.7533	4.3865	
1544.	1405.	6002.	0.923	0.1331	0.0510	2.6081	0.7594	4.2689	

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 5 POINT 2ND ORDER. TM, 6 F

PACH	HP	TIN	TIPS	RPM	CT	CP	CT/CP	FW	TM/MP
0.725	645.	3508.	0.576	1214.	0.1261	0.0483	2.612	0.740	5.441
0.750	715.	3772.	0.586	1254.	0.1267	0.0482	2.628	0.746	5.293
0.775	797.	4051.	0.595	1300.	0.1274	0.0492	2.542	0.752	5.149
0.800	872.	4342.	0.613	1342.	0.1291	0.0486	2.035	0.753	4.976
0.825	948.	4643.	0.62.	1384.	0.1299	0.0492	2.619	0.750	4.795
0.850	1071.	4952.	0.631.	1426.	0.1295	0.0493	2.502	0.747	4.624
0.875	1130.	5291.	0.639.	1464.	0.1305	0.0502	2.509	0.749	4.585
0.900	1245.	5652.	0.649.	1510.	0.1316	0.0507	2.600	0.753	4.364

STATIC PERFORMANCE

7000 RPM 27JUL69 0101 10 333

DATA=0.0 CF=0.0000 DLS=13.000 CAL=1-PC= 29.5 TEM= 544.79 SIGMA=0.0370

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCI	RCP	RCI/CP	RFM	TH/MP
1000.	445.	2800.	0.535	0.1520	0.0599	2.5366	0.7592	6.4270
1050.	524.	3148.	0.626	0.1512	0.0611	2.4755	0.7681	5.9621
1100.	607.	3436.	0.666	0.1501	0.0609	2.4643	0.7619	5.6606
1150.	697.	3779.	0.694	0.1518	0.0508	2.4960	0.7761	5.4993
1200.	785.	4120.	0.714	0.1521	0.0612	2.4857	0.7735	5.2484
1250.	887.	4450.	0.743	0.1516	0.0613	2.4731	0.7624	5.0169
1290.	1007.	4845.	0.772	0.1526	0.0619	2.4667	0.7690	4.8113
1350.	1123.	5293.	0.803	0.1544	0.0620	2.4491	0.7804	4.6717
1390.	1255.	5742.	0.831	0.1562	0.0634	2.4636	0.7769	4.4650
1450.	1423.	6169.	0.862	0.1559	0.0633	2.4637	0.7764	4.3050
1501.	1612.	6617.	0.893	0.1561	0.0642	2.4318	0.7667	4.1048
1552.	1817.	7215.	0.923	0.1592	0.0655	2.4323	0.7745	3.9708

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 5 PCINT 2ND ORDER. TH, 5 F

MACH	HP	TH	TIPS	RPM	CF	CP	CI/CP	FM	TH/MP
0.725	824.	4245.	930.	1219.	0.1519	0.0612	2.479	0.771	5.152
0.750	914.	4549.	858.	1261.	0.1520	0.0613	2.478	0.771	4.979
0.775	1017.	4896.	847.	1303.	0.1532	0.0619	2.476	0.774	4.814
0.800	1127.	5247.	916.	1345.	0.1541	0.0623	2.473	0.775	4.657
0.825	1245.	5625.	944.	1397.	0.1553	0.0628	2.473	0.778	4.517
0.850	1371.	5987.	973.	1429.	0.1557	0.0632	2.473	0.776	4.366
0.875	1512.	6382.	1002.	1471.	0.1567	0.0639	2.452	0.774	4.222
0.900	1654.	6793.	1030.	1513.	0.1576	0.0646	2.439	0.773	4.083

STATIC PUMP PERFORMANCE

→7A95 PROP 28 JUNE 66 5074 MD 315 (28000 MD 334, REFA=12)

BCFA=12.0 RE=120.0 DIA=13.000 NML=4 I NDC= 21.0 TEMPR= 512.49 SLUPA=0.9670

***** DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RPM	TH/MP
1001.	579.	3363.	0.599	0.1794	0.0777	2.2947	0.7734	5.9083
1043.	659.	3581.	0.627	0.1781	0.0783	2.2759	0.7665	5.5022
1100.	773.	4092.	0.658	0.1793	0.0782	2.2926	0.7747	5.2807
1154.	912.	4506.	0.690	0.1798	0.0799	2.2503	0.7615	4.9408
1193.	1003.	4826.	0.717	0.1809	0.0789	2.2919	0.7780	4.8472
1254.	1145.	5331.	0.750	0.1802	0.0782	2.3043	0.7806	4.6559
1301.	1314.	5859.	0.778	0.1840	0.0804	2.2896	0.7837	4.4599
1350.	1471.	6345.	0.807	0.1851	0.0805	2.2986	0.7891	4.3141
1411.	1736.	7023.	0.844	0.1875	0.0832	2.2529	0.7785	4.0455
1453.	1697.	7403.	0.869	0.1864	0.0833	2.2380	0.7710	3.9025
1503.	2156.	8102.	0.899	0.1906	0.0855	2.2292	0.7767	3.7579
1550.	2360.	8757.	0.927	0.1937	0.0853	2.2700	0.7973	3.7106

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TM, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.725	1044.	4399.	825.	1212.	0.1805	0.0789	2.286	0.775	4.779
0.750	1161.	5372.	853.	1254.	0.1816	0.0793	2.299	0.778	4.625
0.775	1233.	5777.	892.	1296.	0.1329	0.0795	2.302	0.786	4.502
0.800	1433.	6214.	910.	1337.	0.1846	0.0807	2.289	0.785	4.337
0.825	1574.	6652.	939.	1379.	0.1858	0.0818	2.272	0.782	4.174
0.850	1770.	7098.	967.	1421.	0.1856	0.0830	2.246	0.774	4.005
0.875	1952.	7566.	996.	1463.	0.1884	0.0840	2.243	0.777	3.885
0.900	2146.	8121.	1024.	1505.	0.1407	0.0848	2.247	0.783	3.784
0.925	2351.	8595.	1053.	1546.	0.1932	0.0856	2.259	0.792	3.699

STATIC PROP. PERFORMANCE

47093 PR.P. 20 JUNE 56 VOL 10 337

delta=16.0 AF=120.0 P1A=1.000 P1B=1.000 P1C=27.0 P1D=27.0 P1E=540.23 S10MA=0.9420

***** DATA POINTS *****

RPM	HP	FM	TACH	RCT	RCP	RCT/CP	RFM	TM/MP
999.	543.	4151.	0.517	0.2216	0.1143	1.9393	0.7285	4.9184
1054.	1012.	4713.	0.629	0.2255	0.1164	1.9373	0.7341	4.6571
1099.	1152.	5129.	0.655	0.2270	0.1169	1.9425	0.7386	4.4783
1151.	1317.	5549.	0.667	0.2265	0.1163	1.9482	0.7400	4.2865
1203.	1527.	6242.	0.718	0.2292	0.1181	1.9409	0.7416	4.0876
1249.	1710.	6773.	0.746	0.2308	0.1182	1.9525	0.7485	3.9608
1299.	1957.	7431.	0.776	0.2341	0.1202	1.9468	0.7516	3.7971
1351.	2242.	8153.	0.807	0.2374	0.1224	1.9390	0.7539	3.6365
1404.	2569.	8916.	0.829	0.2404	0.1250	1.9239	0.7528	3.4720
1452.	2925.	9641.	0.867	0.2441	0.1287	1.8969	0.7479	3.3101
1500.	3275.	10403.	0.876	0.2457	0.1307	1.9800	0.7437	3.1755
1552.	3677.	11486.	0.927	0.2534	0.1325	1.9134	0.7687	3.1237

***** FITTED CURVE DATA FOR CONSTANT PACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TM, 6)

PACH	HP	TM	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.725	1563.	6358.	826.	1214.	0.2293	0.1176	1.949	0.745	4.067
0.750	1747.	6374.	855.	1256.	0.2316	0.1167	1.950	0.749	3.935
0.775	1953.	7445.	993.	1298.	0.2340	0.1203	1.945	0.751	3.797
0.800	2174.	7183.	912.	1340.	0.2364	0.1217	1.942	0.753	3.673
0.825	2431.	6597.	940.	1382.	0.2394	0.1241	1.928	0.753	3.536
0.850	2713.	7139.	949.	1423.	0.2413	0.1267	1.905	0.747	3.391
0.875	3038.	9832.	937.	1465.	0.2446	0.1268	1.900	0.750	3.285
0.900	3324.	10512.	1026.	1507.	0.2483	0.1307	1.899	0.755	3.193
0.925	3659.	11390.	1054.	1549.	0.2523	0.1326	1.903	0.763	3.113

STATIC PERFORMANCE

~7000 RPM 20 JUNE 65 001 00 338

BETA=18.0 AF=120.0 MVA=13.0000 VAL=4 M-PC= 28.5 M-PR= 42.09 SIGMA=0.9390

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1005.	1055.	4712.	0.509	0.2480	0.1400	1.7716	0.7040	4.4664
1050.	1217.	5224.	0.625	0.2513	0.1416	1.7789	0.7124	4.2925
1101.	1401.	5736.	0.656	0.2515	0.1414	1.7791	0.7120	4.0942
1152.	1614.	6311.	0.656	0.2528	0.1422	1.7778	0.7132	3.9102
1200.	1817.	6866.	0.715	0.2534	0.1416	1.7897	0.7189	3.7788
1202.	1830.	6855.	0.716	0.2522	0.1419	1.7771	0.7121	3.7459
1247.	2049.	7441.	0.743	0.2543	0.1423	1.7873	0.7193	3.5315
1254.	2055.	7527.	0.747	0.2544	0.1431	1.7774	0.7154	3.5911
1297.	2415.	8337.	0.773	0.2634	0.1491	1.7672	0.7238	3.4522
1350.	2743.	9041.	0.804	0.2637	0.1501	1.7562	0.7196	3.2960
1394.	3160.	10032.	0.833	0.2724	0.1554	1.7529	0.7301	3.1747
1450.	3659.	10939.	0.854	0.2765	0.1607	1.7202	0.7218	3.0059
1502.	4160.	11894.	0.895	0.2803	0.1653	1.6955	0.7163	2.8601

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1893.	7035.	828.	1217.	0.2524	0.1413	1.786	0.716	3.717
0.750	2139.	7545.	857.	1259.	0.2563	0.1443	1.777	0.718	3.575
0.775	2406.	8310.	836.	1301.	0.2609	0.1471	1.774	0.723	3.454
0.800	2711.	9014.	914.	1343.	0.2656	0.1507	1.762	0.725	3.325
0.825	3046.	9749.	943.	1385.	0.2701	0.1544	1.750	0.726	3.201
0.850	3415.	10501.	971.	1427.	0.2741	0.1583	1.732	0.724	3.075
0.875	3819.	11278.	1000.	1469.	0.2778	0.1622	1.712	0.720	2.953

STATIC PROP PERFORMANCE

47X93 PROJ 23JUN66 KUN NO 339

RETA=20.0 AF=120.0 DIA=13.000 NREL=4 TEMPC= 29.0 TEMPR= 543.89 SIGMA=0.9360

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	KCP	RCT/CP	RFM	RTH/HP
1000.	1219.	5064.	0.595	0.2691	0.1642	1.6396	0.5788	4.1542
1050.	1425.	5620.	0.625	0.2709	0.1658	1.6344	0.6789	3.9439
1099.	1616.	6090.	0.654	0.2680	0.1639	1.6346	0.6753	3.7686
1105.	1665.	6175.	0.658	0.2688	0.1662	1.6174	0.6692	3.7087
1151.	1892.	6359.	0.645	0.2752	0.1671	1.6469	0.6894	3.6253
1200.	2173.	7543.	0.714	0.2784	0.1693	1.6440	0.6922	3.4712
1242.	2431.	8077.	0.743	0.2756	0.1684	1.6365	0.6856	3.3225
1249.	2514.	8291.	0.743	0.2825	0.1738	1.6257	0.6895	3.2979
1297.	2821.	8974.	0.772	0.2835	0.1741	1.6284	0.6919	3.1811
1316.	2971.	9167.	0.783	0.2813	0.1755	1.6026	0.6783	3.0855
1352.	3247.	10000.	0.805	0.2908	0.1824	1.5943	0.6860	2.9878
1403.	3810.	10855.	0.835	0.2931	0.1861	1.5752	0.6805	2.8446
1445.	4270.	11603.	0.860	0.2953	0.1906	1.5497	0.6721	2.7173

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2279.	7775.	829.	1218.	0.2785	0.1698	1.640	0.691	3.412
0.750	2542.	8338.	858.	1260.	0.2791	0.1711	1.631	0.688	3.280
0.775	2875.	9037.	980.	1302.	0.2832	0.1753	1.615	0.686	3.143
0.800	3239.	9765.	915.	1344.	0.2873	0.1796	1.599	0.684	3.015
0.825	3640.	10510.	944.	1386.	0.2907	0.1840	1.580	0.680	2.888
0.850	4096.	11304.	972.	1428.	0.2946	0.1889	1.559	0.675	2.766

STATIC PROP PERFORMANCE

47X04 PROP 1JULY66 RUN NO 343

RETA= 8.0 AF=120.0 CIA=13.000 NBL=4 TEMPC= 30.0 TEMPR= 545.69 SIGMA=0.9340

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
999.	340.	2355.	0.594	0.1254	0.0459	2.7310	0.7718	6.9265
1048.	399.	2612.	0.623	0.1264	0.0467	2.7077	0.7682	6.5464
1103.	465.	2891.	0.655	0.1263	0.0467	2.7065	0.7676	6.2172
1150.	535.	3158.	0.683	0.1269	0.0474	2.6792	0.7617	5.9028
1205.	605.	3415.	0.716	0.1250	0.0466	2.6845	0.7574	5.6446
1245.	653.	3683.	0.740	0.1263	0.0456	2.7714	0.7859	5.6401
1254.	669.	3683.	0.745	0.1245	0.0457	2.7247	0.7671	5.5052
1302.	768.	4047.	0.774	0.1269	0.0469	2.7079	0.7697	5.2695
1353.	885.	4411.	0.804	0.1281	0.0481	2.6616	0.7601	4.9842
1402.	991.	4711.	0.833	0.1274	0.0484	2.6305	0.7492	4.7538
1450.	1089.	5096.	0.862	0.1288	0.0481	2.6780	0.7670	4.6795
1503.	1233.	5525.	0.893	0.1300	0.0489	2.6581	0.7648	4.4809
1547.	1362.	5867.	0.919	0.1303	0.0495	2.6301	0.7576	4.3076

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CT	CT/CP	FM	TH/HP
0.725	622.	3513.	831.	1220.	0.1254	0.0461	2.718	0.768	5.645
0.750	690.	3780.	859.	1262.	0.1261	0.0462	2.729	0.773	5.478
0.775	778.	4056.	888.	1304.	0.1267	0.0472	2.683	0.762	5.212
0.800	869.	4345.	916.	1346.	0.1274	0.0479	2.658	0.757	5.002
0.825	958.	4644.	945.	1388.	0.1280	0.0482	2.657	0.759	4.848
0.850	1052.	4946.	974.	1431.	0.1285	0.0484	2.655	0.759	4.703
0.875	1156.	5269.	1002.	1473.	0.1291	0.0488	2.648	0.759	4.556
0.900	1268.	5606.	1031.	1515.	0.1299	0.0491	2.644	0.760	4.422

STATIC PRCP PERFORMANCE

47X94 PROP 5JULY66 RUN NO 347

BETA=10.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9370

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1031.	409.	2753.	0.598	0.1460	0.0549	2.6593	0.8109	6.7311
1051.	489.	3116.	0.628	0.1499	0.0567	2.6432	0.8167	6.3722
1100.	565.	3436.	0.657	0.1509	0.0572	2.6402	0.8185	6.0814
1150.	655.	3778.	0.687	0.1518	0.0580	2.6180	0.8140	5.7679
1198.	745.	4098.	0.715	0.1518	0.0583	2.6009	0.8085	5.5007
1227.	792.	4248.	0.733	0.1500	0.0577	2.5975	0.8027	5.3636
1274.	894.	4653.	0.761	0.1524	0.0582	2.6170	0.8152	5.2047
1305.	969.	4845.	0.779	0.1512	0.0587	2.5753	0.7991	5.0000
1350.	1078.	5187.	0.806	0.1513	0.0590	2.5638	0.7957	4.8117
1399.	1202.	5592.	0.835	0.1519	0.0591	2.5688	0.7988	4.6522
1450.	1368.	6083.	0.866	0.1538	0.0604	2.5447	0.7963	4.4466
1500.	1537.	6596.	0.896	0.1558	0.0613	2.5406	0.8003	4.2915
1549.	1750.	7172.	0.925	0.1589	0.0634	2.5055	0.7969	4.0983

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	772.	4197.	826.	1214.	0.1512	0.0581	2.605	0.809	5.437
0.750	856.	4490.	855.	1256.	0.1513	0.0582	2.600	0.807	5.245
0.775	950.	4797.	883.	1298.	0.1514	0.0585	2.587	0.803	5.051
0.800	1050.	5118.	912.	1340.	0.1516	0.0588	2.577	0.801	4.874
0.825	1159.	5444.	940.	1382.	0.1516	0.0592	2.561	0.796	4.696
0.850	1278.	5820.	969.	1423.	0.1527	0.0596	2.559	0.798	4.556
0.875	1417.	6233.	997.	1465.	0.1543	0.0607	2.544	0.797	4.398
0.900	1573.	6683.	1026.	1507.	0.1564	0.0619	2.527	0.797	4.248

STATIC POMP PERFORMANCE

47X94 PRNP 5JULY66 RUN NO 344

BETA=12.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 26.5 TEMPR= 539.39 SIGMA=0.9390

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	549.	3185.	0.599	0.1686	0.0735	2.2943	0.7518	5.8015
1050.	643.	3588.	0.628	0.1730	0.0748	2.3125	0.7675	5.5801
1101.	754.	3928.	0.658	0.1722	0.0761	2.2638	0.7497	5.2095
1126.	798.	4119.	0.673	0.1727	0.0753	2.2939	0.7606	5.1617
1153.	854.	4278.	0.689	0.1710	0.0750	2.2796	0.7523	5.0094
1178.	900.	4459.	0.704	0.1708	0.0741	2.3035	0.7596	4.9544
1199.	989.	4756.	0.717	0.1758	0.0773	2.2757	0.7615	4.8089
1226.	1005.	4851.	0.733	0.1715	0.0734	2.3356	0.7719	4.8269
1247.	1103.	5159.	0.745	0.1763	0.0766	2.3020	0.7714	4.6772
1305.	1275.	5626.	0.780	0.1756	0.0773	2.2727	0.7600	4.4125
1350.	1427.	6072.	0.807	0.1771	0.0781	2.2672	0.7613	4.2551
1403.	1613.	6561.	0.838	0.1772	0.0787	2.2524	0.7565	4.0676
1422.	1658.	6752.	0.850	0.1775	0.0776	2.2856	0.7684	4.0724
1453.	1852.	7219.	0.868	0.1817	0.0813	2.2354	0.7605	3.8979
1476.	1893.	7304.	0.882	0.1782	0.0793	2.2477	0.7572	3.8584
1496.	2027.	7707.	0.894	0.1830	0.0815	2.2450	0.7664	3.8022
1549.	2311.	8386.	0.926	0.1858	0.0837	2.2185	0.7630	3.6287

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	998.	4813.	826.	1213.	0.1738	0.0753	2.309	0.768	4.823
0.750	1118.	5186.	854.	1255.	0.1750	0.0762	2.297	0.767	4.638
0.775	1243.	5557.	883.	1297.	0.1756	0.0768	2.287	0.765	4.469
0.800	1393.	5965.	911.	1339.	0.1769	0.0782	2.262	0.759	4.282
0.825	1526.	6341.	940.	1380.	0.1769	0.0781	2.265	0.760	4.157
0.850	1683.	6774.	968.	1422.	0.1780	0.0788	2.260	0.761	4.026
0.875	1865.	7265.	997.	1464.	0.1801	0.0800	2.251	0.762	3.895
0.900	2072.	7796.	1025.	1506.	0.1827	0.0817	2.236	0.763	3.762
0.925	2303.	8368.	1054.	1548.	0.1857	0.0836	2.220	0.763	3.634

STATIC PRCP PERFORMANCE

47X94 PRCP 6JULY66 RUN NO 348

BETA=14.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9430

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1004.	672.	3733.	0.602	0.1968	0.0894	2.2012	0.7793	5.5551
1053.	776.	4115.	0.631	0.1972	0.0895	2.2038	0.7811	5.3028
1103.	897.	4517.	0.661	0.1973	0.0900	2.1922	0.7771	5.0357
1150.	1036.	4995.	0.689	0.2007	0.0917	2.1884	0.7824	4.8214
1202.	1199.	5493.	0.720	0.2021	0.0930	2.1734	0.7796	4.5813
1251.	1358.	5981.	0.750	0.2031	0.0934	2.1746	0.7821	4.4043
1301.	1554.	6575.	0.779	0.2065	0.0950	2.1725	0.7878	4.2310
1347.	1754.	7126.	0.807	0.2087	0.0966	2.1599	0.7875	4.0627
1401.	2022.	7762.	0.839	0.2102	0.0990	2.1226	0.7766	3.8388
1450.	2297.	8484.	0.869	0.2145	0.1015	2.1137	0.7812	3.6935
1502.	2615.	9162.	0.900	0.2158	0.1039	2.0770	0.7700	3.5036
1551.	2981.	9989.	0.929	0.2207	0.1076	2.0512	0.7690	3.3509

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1220.	5570.	824.	1210.	0.2022	0.0928	2.179	0.782	4.563
0.750	1363.	6016.	852.	1252.	0.2040	0.0935	2.181	0.786	4.415
0.775	1524.	6478.	880.	1294.	0.2058	0.0948	2.169	0.785	4.249
0.800	1700.	6964.	909.	1335.	0.2076	0.0962	2.158	0.785	4.096
0.825	1900.	7493.	937.	1377.	0.2100	0.0980	2.144	0.784	3.944
0.850	2114.	8016.	966.	1419.	0.2117	0.0997	2.123	0.780	3.792
0.875	2359.	8594.	994.	1460.	0.2142	0.1020	2.100	0.776	3.644
0.900	2628.	9207.	1022.	1502.	0.2169	0.1044	2.077	0.772	3.504
0.925	2922.	9857.	1051.	1544.	0.2198	0.1069	2.056	0.769	3.373

STATIC PROP PERFORMANCE

47X94 PROP 5JULY66 RUN NO 345

BEIA=16.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	784.	4034.	0.599	0.2135	0.1049	2.0349	0.7504	5.1454
1049.	922.	4448.	0.627	0.2148	0.1076	1.9974	0.7388	4.8243
1098.	1058.	4873.	0.657	0.2148	0.1076	1.9960	0.7383	4.6059
1154.	1232.	5456.	0.690	0.2178	0.1080	2.0170	0.7511	4.4286
1203.	1445.	6072.	0.720	0.2230	0.1118	1.9951	0.7518	4.2021
1248.	1638.	6603.	0.746	0.2253	0.1135	1.9856	0.7521	4.0311
1301.	1908.	7367.	0.778	0.2313	0.1167	1.9826	0.7609	3.8611
1350.	2120.	7919.	0.807	0.2309	0.1160	1.9903	0.7633	3.7354
1404.	2443.	8599.	0.840	0.2319	0.1189	1.9505	0.7495	3.5199
1450.	2756.	9427.	0.867	0.2383	0.1217	1.9575	0.7626	3.4205
1500.	3045.	10276.	0.897	0.2427	0.1215	1.9979	0.7855	3.3747
1548.	3554.	11125.	0.926	0.2467	0.1290	1.9125	0.7581	3.1303

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1483.	6180.	825.	1212.	0.2236	0.1122	1.994	0.752	4.167
0.750	1668.	6721.	853.	1254.	0.2272	0.1139	1.994	0.759	4.030
0.775	1867.	7249.	882.	1296.	0.2295	0.1156	1.985	0.759	3.883
0.800	2071.	7764.	910.	1337.	0.2307	0.1166	1.979	0.758	3.749
0.825	2306.	8322.	939.	1379.	0.2325	0.1183	1.965	0.756	3.609
0.850	2532.	8921.	967.	1421.	0.2348	0.1188	1.976	0.764	3.523
0.875	2821.	9591.	996.	1463.	0.2382	0.1213	1.963	0.765	3.400
0.900	3147.	10325.	1024.	1505.	0.2424	0.1244	1.948	0.765	3.281
0.925	3511.	11123.	1053.	1546.	0.2472	0.1279	1.933	0.767	3.168

STATIC PRCP PERFORMANCE

47X94 PROP 6JULY66 RUN NU 349

BETA=18.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 25.5 TEMPR= 537.59 SIGMA=0.9410

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
998.	984.	4570.	0.597	0.2439	0.1333	1.8293	0.7209	4.6443
1000.	1002.	4591.	0.599	0.2440	0.1349	1.8084	0.7128	4.5818
1050.	1171.	5122.	0.629	0.2469	0.1362	1.8127	0.7188	4.3740
1050.	1196.	5228.	0.629	0.2520	0.1391	1.8115	0.7257	4.3712
1099.	1354.	5654.	0.658	0.2488	0.1374	1.8113	0.7210	4.1758
1146.	1521.	6142.	0.686	0.2486	0.1361	1.8265	0.7267	4.0381
1200.	1787.	6780.	0.718	0.2502	0.1393	1.7969	0.7173	3.7941
1250.	2108.	7694.	0.748	0.2617	0.1453	1.8007	0.7351	3.6499
1305.	2402.	8332.	0.781	0.2600	0.1455	1.7866	0.7270	3.4688
1350.	2723.	9054.	0.808	0.2640	0.1490	1.7716	0.7265	3.3250
1401.	3132.	9841.	0.839	0.2665	0.1534	1.7374	0.7157	3.1421
1451.	3607.	10797.	0.869	0.2726	0.1590	1.7142	0.7142	2.9933
1499.	4187.	11881.	0.897	0.2810	0.1674	1.6788	0.7102	2.8376
1510.	4254.	11987.	0.904	0.2794	0.1664	1.6793	0.7084	2.8178

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, CT POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1858.	7020.	824.	1211.	0.2544	0.1409	1.806	0.727	3.778
0.750	2092.	7622.	853.	1253.	0.2581	0.1433	1.801	0.730	3.643
0.775	2354.	8230.	881.	1295.	0.2610	0.1461	1.787	0.728	3.496
0.800	2631.	8854.	910.	1336.	0.2635	0.1485	1.775	0.727	3.366
0.825	2933.	9459.	938.	1378.	0.2647	0.1509	1.754	0.720	3.226
0.850	3310.	10215.	966.	1420.	0.2693	0.1557	1.730	0.716	3.086
0.875	3731.	11023.	995.	1462.	0.2742	0.1609	1.704	0.712	2.954
0.900	4202.	11900.	1023.	1503.	0.2798	0.1665	1.680	0.709	2.832

STATIC PROP PERFORMANCE

47X94 PROP 5JULY66 RUN NO 346

BETA=20.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9380

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	1178.	4925.	0.598	0.2607	0.1577	1.6534	0.6737	4.1808
1050.	1375.	5544.	0.627	0.2673	0.1600	1.6709	0.6893	4.0320
1100.	1587.	6077.	0.657	0.2669	0.1606	1.6625	0.6854	3.8292
1151.	1837.	6716.	0.687	0.2694	0.1622	1.6608	0.6879	3.6560
1198.	2057.	7292.	0.715	0.2700	0.1611	1.6762	0.6951	3.5450
1249.	2397.	8102.	0.746	0.2760	0.1657	1.6662	0.6986	3.3801
1299.	2778.	8955.	0.776	0.2821	0.1707	1.6527	0.7004	3.2235
1360.	3316.	10021.	0.812	0.2880	0.1775	1.6221	0.6946	3.0220
1401.	3722.	10661.	0.837	0.2887	0.1823	1.5838	0.6791	2.8643
1444.	4234.	11620.	0.862	0.2962	0.1894	1.5641	0.6793	2.7444

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2167.	7566.	826.	1214.	0.2728	0.1631	1.673	0.697	3.491
0.750	2444.	8233.	855.	1256.	0.2774	0.1661	1.670	0.702	3.369
0.775	2763.	8908.	883.	1298.	0.2811	0.1702	1.652	0.699	3.224
0.800	3126.	9632.	912.	1340.	0.2852	0.1751	1.629	0.694	3.081
0.825	3535.	10389.	940.	1382.	0.2893	0.1805	1.603	0.688	2.939
0.850	3986.	11177.	969.	1423.	0.2932	0.1861	1.575	0.681	2.804

STATIC PROCP PERFORMANCE

47X95 PROCP 12JULY66 RUN NO 362

BETA=-2.0 AF= 90.0 CIA=13.000 NBL=4 TEMPC= 29.0 TEMPR= 543.89 SIGMA=0.9350

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
707.	32.	428.	0.421	0.0455	0.0122	3.7321	0.6353	13.3750
799.	54.	535.	0.476	0.0445	0.0143	3.1243	0.5262	9.9074
1001.	121.	749.	0.596	0.0397	0.0162	2.4455	0.3890	6.1901
1050.	143.	813.	0.625	0.0392	0.0166	2.3561	0.3722	5.6853
1100.	168.	856.	0.655	0.0376	0.0170	2.2121	0.3423	5.0952
1151.	202.	963.	0.685	0.0386	0.0178	2.1657	0.3397	4.7673
1199.	230.	1005.	0.714	0.0372	0.0180	2.0678	0.3181	4.3696
1250.	263.	1080.	0.744	0.0367	0.0181	2.0259	0.3099	4.1065
1303.	306.	1187.	0.775	0.0372	0.0186	1.9949	0.3069	3.8791
1346.	342.	1262.	0.801	0.0370	0.0189	1.9603	0.3010	3.6901
1412.	394.	1305.	0.840	0.0348	0.0188	1.8458	0.2747	3.3122
1468.	449.	1390.	0.874	0.0343	0.0191	1.7937	0.2650	3.0958
1499.	502.	1497.	0.892	0.0354	0.0201	1.7643	0.2649	2.9821
1551.	569.	1583.	0.923	0.0350	0.0205	1.7030	0.2542	2.7821

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	243.	1041.	829.	1218.	0.0373	0.0181	2.062	0.318	4.290
0.750	273.	1115.	858.	1260.	0.0373	0.0184	2.032	0.313	4.085
0.775	304.	1176.	886.	1302.	0.0368	0.0186	1.985	0.304	3.862
0.800	338.	1242.	915.	1344.	0.0365	0.0188	1.947	0.297	3.671
0.825	373.	1293.	944.	1386.	0.0358	0.0188	1.899	0.287	3.470
0.850	411.	1343.	972.	1428.	0.0350	0.0190	1.841	0.275	3.266
0.875	459.	1415.	1001.	1470.	0.0348	0.0194	1.789	0.266	3.083
0.900	513.	1499.	1029.	1512.	0.0348	0.0200	1.743	0.260	2.920

STATIC PROP PERFORMANCE

47X95 PROP 13JUL 66 RUN NO 363

BETA= 0. AF= 90.0 DIA=13.000 NBL=4 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
700.	39.	570.	0.420	0.0618	0.0153	4.0379	0.8012	14.6154
802.	66.	717.	0.481	0.0592	0.0172	3.4387	0.6679	10.8636
1000.	139.	1013.	0.600	0.0538	0.0187	2.8763	0.5326	7.2878
1050.	167.	1139.	0.630	0.0549	0.0194	2.8265	0.5285	6.8204
1106.	193.	1234.	0.664	0.0536	0.0192	2.7910	0.5157	6.3938
1152.	218.	1308.	0.691	0.0524	0.0192	2.7280	0.4983	6.0000
1197.	245.	1414.	0.718	0.0525	0.0192	2.7266	0.4983	5.7714
1250.	285.	1540.	0.750	0.0524	0.0197	2.6658	0.4869	5.4035
1300.	333.	1688.	0.780	0.0531	0.0204	2.6009	0.4782	5.0691
1356.	379.	1793.	0.814	0.0518	0.0205	2.5319	0.4600	4.7309
1399.	418.	1878.	0.840	0.0510	0.0206	2.4807	0.4471	4.4928
1471.	503.	2110.	0.883	0.0518	0.0213	2.4354	0.4424	4.1948
1500.	543.	2173.	0.900	0.0513	0.0217	2.3692	0.4283	4.0018
1554.	612.	2310.	0.933	0.0508	0.0220	2.3150	0.4165	3.7745

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	255.	1446.	822.	1208.	0.0526	0.0195	2.705	0.495	5.673
0.750	286.	1542.	851.	1250.	0.0525	0.0197	2.659	0.486	5.390
0.775	322.	1651.	879.	1291.	0.0526	0.0201	2.616	0.479	5.133
0.800	358.	1740.	907.	1333.	0.0520	0.0203	2.558	0.466	4.863
0.825	397.	1840.	936.	1375.	0.0517	0.0206	2.516	0.457	4.638
0.850	439.	1944.	964.	1416.	0.0515	0.0208	2.473	0.448	4.425
0.875	487.	2051.	992.	1458.	0.0513	0.0211	2.425	0.438	4.214
0.900	539.	2164.	1021.	1500.	0.0512	0.0215	2.377	0.429	4.017
0.925	596.	2284.	1049.	1541.	0.0511	0.0219	2.332	0.421	3.834

STATIC PROP PERFORMANCE

47X95 PROP 13JUL/66 RUN NO 364

BETA= 2.0 AF= 90.0 DIA=13.000 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
699.	50.	722.	0.418	0.0785	0.0197	3.9837	0.8909	14.4400
807.	83.	934.	0.483	0.0762	0.0213	3.5842	0.7897	11.2530
1000.	168.	1380.	0.598	0.0733	0.0226	3.2420	0.7007	8.2143
1053.	198.	1497.	0.630	0.0718	0.0228	3.1422	0.6717	7.5606
1103.	229.	1624.	0.660	0.0709	0.0230	3.0872	0.6562	7.0917
1149.	256.	1699.	0.687	0.0684	0.0227	3.0097	0.6281	6.6367
1150.	259.	1688.	0.688	0.0678	0.0229	2.9581	0.6148	6.5174
1200.	306.	1911.	0.718	0.0705	0.0238	2.9578	0.6269	6.2451
1254.	349.	2081.	0.750	0.0703	0.0238	2.9511	0.6246	5.9628
1297.	386.	2208.	0.776	0.0698	0.0238	2.9282	0.6172	5.7202
1348.	428.	2335.	0.806	0.0683	0.0235	2.9025	0.6053	5.4556
1352.	434.	2346.	0.809	0.0682	0.0236	2.8844	0.6012	5.4055
1400.	489.	2527.	0.837	0.0685	0.0240	2.8554	0.5965	5.1677
1470.	577.	2792.	0.879	0.0687	0.0245	2.8074	0.5871	4.8388
1500.	620.	2909.	0.897	0.0687	0.0247	2.7777	0.5811	4.6919
1550.	689.	3057.	0.927	0.0676	0.0249	2.7143	0.5633	4.4369

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCNT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	314.	1945.	825.	1212.	0.0704	0.0238	2.960	0.627	6.188
0.750	350.	2086.	853.	1254.	0.0705	0.0239	2.946	0.624	5.954
0.775	385.	2209.	882.	1296.	0.0699	0.0239	2.931	0.619	5.731
0.800	421.	2317.	910.	1337.	0.0688	0.0237	2.903	0.608	5.500
0.825	463.	2444.	939.	1379.	0.0683	0.0238	2.872	0.599	5.276
0.850	515.	2616.	967.	1421.	0.0688	0.0242	2.848	0.596	5.078
0.875	569.	2768.	996.	1463.	0.0683	0.0245	2.811	0.588	4.869
0.900	625.	2914.	1024.	1505.	0.0684	0.0247	2.768	0.578	4.662
0.925	684.	3051.	1053.	1546.	0.0678	0.0249	2.721	0.565	4.459

STATIC PROCP PERFORMANCE

47X95 PROCP 13JULY66 RUN NO 365

BETA= 4.0 AF= 90.0 DIA=13.000 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9420

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
711.	69.	913.	0.425	0.0960	0.0259	3.7131	0.9180	13.2319
809.	103.	1115.	0.484	0.0905	0.0262	3.4565	0.8300	10.8252
1010.	203.	1677.	0.604	0.0874	0.0265	3.2931	0.7768	8.2611
1049.	235.	1805.	0.627	0.0872	0.0274	3.1800	0.7493	7.6809
1102.	274.	1985.	0.659	0.0869	0.0276	3.1509	0.7411	7.2445
1146.	311.	2144.	0.685	0.0868	0.0278	3.1191	0.7329	6.8939
1197.	348.	2272.	0.716	0.0843	0.0273	3.0844	0.7145	6.5287
1254.	415.	2527.	0.750	0.0854	0.0283	3.0137	0.7028	6.0892
1302.	467.	2696.	0.779	0.0845	0.0285	2.9666	0.6883	5.7730
1351.	516.	2887.	0.808	0.0841	0.0282	2.9833	0.6903	5.5950
1404.	587.	3100.	0.840	0.0836	0.0286	2.9264	0.6752	5.2811
1471.	679.	3418.	0.880	0.0840	0.0287	2.9225	0.6757	5.0339
1503.	736.	3567.	0.899	0.0839	0.0292	2.8749	0.6646	4.8465
1550.	821.	3811.	0.927	0.0843	0.0297	2.8397	0.6580	4.6419

***** FITTED CURVE DATA FOR CONSTAN. MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	370.	2355.	825.	1212.	0.0852	0.0280	3.048	0.710	6.371
0.750	411.	2508.	853.	1254.	0.0848	0.0281	3.017	0.701	6.097
0.775	456.	2668.	882.	1296.	0.0845	0.0282	2.990	0.693	5.847
0.800	505.	2837.	910.	1337.	0.0843	0.0284	2.964	0.687	5.616
0.825	553.	3000.	939.	1379.	0.0838	0.0284	2.953	0.682	5.424
0.850	607.	3181.	967.	1421.	0.0837	0.0285	2.939	0.679	5.241
0.875	669.	3373.	996.	1463.	0.0838	0.0288	2.910	0.672	5.041
0.900	738.	3577.	1024.	1505.	0.0840	0.0292	2.878	0.666	4.846
0.925	814.	3793.	1053.	1546.	0.0843	0.0296	2.844	0.659	4.660

STATIC PRCP PERFORMANCE

47X95 PROP 8JULY66 RUN NO 353

BETA= 6.0 AF= 90.C CIA=13.000 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9440

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	265.	2013.	0.598	0.1070	0.0357	2.9981	0.7826	7.5962
1048.	311.	2203.	0.627	0.1066	0.0364	2.9300	0.7634	7.0836
1104.	372.	2447.	0.660	0.1067	0.0372	2.8662	0.7471	6.5780
1149.	422.	2648.	0.687	0.1066	0.0375	2.8456	0.7414	6.2749
1201.	480.	2881.	0.718	0.1062	0.0373	2.8451	0.7397	6.0021
1251.	539.	3104.	0.748	0.1054	0.0371	2.8434	0.7367	5.7588
1299.	612.	3316.	0.777	0.1044	0.0376	2.7779	0.7164	5.4183
1354.	702.	3602.	0.810	0.1044	0.0381	2.7420	0.7071	5.1311
1401.	777.	3877.	0.838	0.1050	0.0381	2.7590	0.7134	4.9897
1452.	862.	4110.	0.869	0.1036	0.0379	2.7324	0.7019	4.7680
1502.	965.	4428.	0.898	0.1043	0.0384	2.7202	0.7011	4.5886
1553.	1078.	4767.	0.929	0.1051	0.0388	2.7105	0.7010	4.4221

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	492.	2925.	825.	1212.	0.1058	0.0372	2.8466	0.739	5.949
0.750	547.	3109.	853.	1254.	0.1051	0.0374	2.813	0.728	5.685
0.775	606.	3310.	882.	1296.	0.1048	0.0375	2.792	0.721	5.460
0.800	672.	3522.	910.	1337.	0.1046	0.0378	2.766	0.714	5.240
0.825	740.	3736.	939.	1379.	0.1044	0.0380	2.748	0.708	5.047
0.850	810.	3960.	967.	1421.	0.1042	0.0380	2.742	0.706	4.888
0.875	888.	4200.	996.	1463.	0.1043	0.0382	2.731	0.704	4.730
0.900	972.	4452.	1024.	1505.	0.1045	0.0384	2.720	0.702	4.581
0.925	1061.	4715.	1053.	1546.	0.1048	0.0386	2.712	0.700	4.443

STATIC PROP PERFORMANCE

47X95 PROP 9 JULY 66 RUN NO 354

BETA= 8.0 AF= 90.0 DIA=13.000 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9430

***** RAW DATA PULS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
1014.	351.	2460.	0.606	0.1272	0.0453	2.8049	0.7982	7.0085
1050.	379.	2566.	0.627	0.1237	0.0441	2.8058	0.7875	6.7704
1099.	450.	2863.	0.656	0.1260	0.0457	2.7596	0.7817	6.3622
1154.	518.	3118.	0.689	0.1244	0.0454	2.7416	0.7718	6.0193
1200.	586.	3383.	0.717	0.1249	0.0457	2.7342	0.7710	5.7730
1250.	660.	3648.	0.746	0.1241	0.0455	2.7269	0.7665	5.5273
1300.	760.	3966.	0.776	0.1247	0.0466	2.6775	0.7546	5.2184
1351.	848.	4263.	0.807	0.1241	0.0463	2.6805	0.7537	5.0271
1402.	965.	4655.	0.837	0.1259	0.0472	2.6692	0.7557	4.8238
1451.	1074.	5005.	0.866	0.1263	0.0473	2.6688	0.7570	4.6601
1501.	1207.	5408.	0.896	0.1276	0.0481	2.6543	0.7566	4.4805
1555.	1344.	5811.	0.929	0.1277	0.0481	2.6535	0.7568	4.3237

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IHP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CI	CP	CT/CP	FM	TH/HP
0.725	607.	3453.	826.	1214.	0.1245	0.0457	2.727	0.768	5.690
0.750	674.	3686.	855.	1256.	0.1242	0.0458	2.710	0.762	5.466
0.775	749.	3942.	883.	1298.	0.1244	0.0462	2.695	0.758	5.261
0.800	830.	4207.	912.	1340.	0.1246	0.0465	2.679	0.755	5.066
0.825	918.	4495.	940.	1382.	0.1252	0.0469	2.671	0.754	4.899
0.850	1011.	4803.	969.	1423.	0.1260	0.0472	2.668	0.756	4.750
0.875	1111.	5115.	997.	1465.	0.1266	0.0475	2.663	0.756	4.604
0.900	1217.	5438.	1026.	1507.	0.1272	0.0479	2.658	0.756	4.468
0.925	1330.	5773.	1054.	1549.	0.1279	0.0482	2.653	0.757	4.339

STATIC PROCP PERFORMANCE

47X95 PROP 8 JULY 66 RUN NO 355

BEIA=10.0 AF= 90.0 DIA=13.000 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9430

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RIH/HP
1002.	403.	2694.	0.598	0.1426	0.0539	2.6437	0.7967	6.6849
1052.	469.	2948.	0.628	0.1416	0.0542	2.6098	0.7836	6.2857
1098.	538.	3213.	0.656	0.1416	0.0547	2.5881	0.7773	5.9721
1149.	618.	3542.	0.686	0.1426	0.0549	2.5991	0.7832	5.7314
1201.	713.	3902.	0.717	0.1438	0.0554	2.5941	0.7849	5.4727
1258.	827.	4305.	0.751	0.1446	0.0559	2.5846	0.7842	5.2056
1299.	927.	4687.	0.776	0.1476	0.0570	2.5922	0.7948	5.0561
1349.	1059.	5069.	0.806	0.1480	0.0581	2.5485	0.7825	4.7866
1398.	1171.	5387.	0.835	0.1465	0.0577	2.5383	0.7753	4.6003
1430.	1173.	5408.	0.836	0.1466	0.0576	2.5475	0.7785	4.6104
1447.	1304.	5854.	0.864	0.1486	0.0580	2.5638	0.7887	4.4893
1452.	1338.	5917.	0.867	0.1492	0.0589	2.5343	0.7811	4.4223
1499.	1454.	6257.	0.895	0.1480	0.0581	2.5459	0.7816	4.3033
1552.	1680.	6893.	0.927	0.1521	0.0605	2.5133	0.7822	4.1030
1557.	1673.	6808.	0.930	0.1493	0.0597	2.5007	0.7710	4.0693

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	737.	3996.	826.	1214.	0.1441	0.0554	2.600	0.788	5.426
0.750	826.	4313.	855.	1256.	0.1453	0.0561	2.589	0.788	5.223
0.775	924.	4648.	883.	1298.	0.1467	0.0569	2.577	0.787	5.031
0.800	1026.	4976.	912.	1340.	0.1474	0.0575	2.564	0.786	4.850
0.825	1133.	5296.	940.	1382.	0.1475	0.0578	2.549	0.781	4.675
0.850	1243.	5631.	969.	1423.	0.1477	0.0580	2.546	0.781	4.532
0.875	1361.	6004.	997.	1465.	0.1486	0.0583	2.551	0.785	4.410
0.900	1499.	6390.	1026.	1507.	0.1495	0.0590	2.536	0.782	4.263
0.925	1652.	6787.	1054.	1549.	0.1503	0.0599	2.511	0.777	4.107

STATIC PROP PERFORMANCE

47X95 PROP 8JULY66 RUN N0356

BETA=12.0 AF= 32.0 CIA=13.000 NBL=4 TEMPC= 27.7 TEMPR= 541.55 SIGMA=0.9410

***** RAW DATA POINTS *****

RPM	HP	TH	MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1006.	512.	3167.	0.600	0.1663	0.0677	2.4560	0.7993	6.1855
1049.	575.	3401.	0.626	0.1643	0.0671	2.4488	0.7920	5.9148
1100.	678.	3773.	0.656	0.1657	0.0686	2.4160	0.7849	5.5649
1150.	792.	4187.	0.686	0.1683	0.0701	2.3995	0.7855	5.2866
1199.	903.	4570.	0.715	0.1690	0.0705	2.3949	0.7856	5.0609
1253.	1049.	5101.	0.747	0.1727	0.0718	2.4048	0.7975	4.8627
1300.	1161.	5441.	0.775	0.1711	0.0712	2.4046	0.7937	4.6865
1353.	1333.	5930.	0.807	0.1722	0.0725	2.3756	0.7866	4.4486
1399.	1474.	6376.	0.834	0.1731	0.0725	2.3884	0.7931	4.3256
1451.	1692.	6993.	0.865	0.1765	0.0746	2.3669	0.7936	4.1330
1500.	1901.	7503.	0.895	0.1772	0.0759	2.3366	0.7850	3.9469
1550.	2120.	9087.	0.924	0.1789	0.0767	2.3336	0.7877	3.8146

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	945.	4738.	827.	1216.	0.1704	0.0709	2.405	0.792	5.012
0.750	1053.	5092.	856.	1257.	0.1712	0.0713	2.400	0.792	4.836
0.775	1169.	5460.	884.	1299.	0.1719	0.0717	2.396	0.793	4.672
0.800	1291.	5832.	913.	1341.	0.1723	0.0720	2.392	0.792	4.519
0.825	1426.	6227.	942.	1383.	0.1730	0.0726	2.384	0.791	4.366
0.850	1585.	6678.	970.	1425.	0.1748	0.0738	2.369	0.790	4.212
0.875	1753.	7134.	999.	1467.	0.1762	0.0748	2.356	0.789	4.069
0.900	1934.	7609.	1027.	1509.	0.1776	0.0758	2.343	0.788	3.934

STATIC DATA RANGE

***** 11/11/66 11/11/66

***** 11/11/66 11/11/66 *****

***** 11/11/66 11/11/66 *****

HP	TH	FM	TH/HP	FM	TH/HP
1001.	632.	350.	0.600	0.133	0.034
1054.	750.	515.	0.631	0.133	0.035
1107.	872.	691.	0.660	0.133	0.037
1151.	998.	877.	0.690	0.133	0.039
1194.	1124.	1062.	0.719	0.133	0.041
1237.	1250.	1247.	0.748	0.133	0.043
1280.	1376.	1432.	0.777	0.133	0.045
1323.	1502.	1617.	0.806	0.133	0.047
1366.	1628.	1802.	0.835	0.133	0.049
1409.	1754.	1987.	0.864	0.133	0.051
1452.	1880.	2172.	0.893	0.133	0.053
1495.	2006.	2357.	0.922	0.133	0.055
1538.	2132.	2542.	0.951	0.133	0.057

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 4 POINT 2ND ORDER. TH, 5 PT

HP	TH	FM	TH/HP	FM	TH/HP
1001.	632.	350.	0.600	0.133	0.034
1054.	750.	515.	0.631	0.133	0.035
1107.	872.	691.	0.660	0.133	0.037
1151.	998.	877.	0.690	0.133	0.039
1194.	1124.	1062.	0.719	0.133	0.041
1237.	1250.	1247.	0.748	0.133	0.043
1280.	1376.	1432.	0.777	0.133	0.045
1323.	1502.	1617.	0.806	0.133	0.047
1366.	1628.	1802.	0.835	0.133	0.049
1409.	1754.	1987.	0.864	0.133	0.051
1452.	1880.	2172.	0.893	0.133	0.053
1495.	2006.	2357.	0.922	0.133	0.055
1538.	2132.	2542.	0.951	0.133	0.057

NOT REPRODUCIBLE

STATIC PROP PERFORMANCE

47X95 PROP 11JULY66 RUN NO 358

BETA=16.1 AF= 99.0 DIA=13.000 HBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1000.	765.	4004.	0.599	0.2128	0.1030	2.0657	0.7605	5.2340
1050.	690.	4415.	0.634	0.2092	0.1019	2.0526	0.7493	4.9110
1062.	919.	4531.	0.636	0.2135	0.1033	2.0666	0.7620	4.9304
1100.	1039.	4837.	0.659	0.2125	0.1051	2.0211	0.7434	4.6554
1101.	1040.	4995.	0.660	0.2190	0.1049	2.0871	0.7794	4.8029
1150.	1182.	5332.	0.689	0.2143	0.1047	2.0475	0.7563	4.5110
1200.	1329.	5774.	0.719	0.2131	0.1036	2.0577	0.7580	4.3446
1249.	1522.	5322.	0.748	0.2154	0.1052	2.0476	0.7583	4.1537
1299.	1745.	6913.	0.778	0.2177	0.1072	2.0311	0.7563	3.9616
1353.	2022.	7597.	0.811	0.2206	0.1099	2.0063	0.7519	3.7572
1400.	2306.	8430.	0.839	0.2286	0.1132	2.0200	0.7707	3.6557
1402.	2320.	8409.	0.840	0.2274	0.1134	2.0056	0.7632	3.6246
1468.	2770.	9442.	0.880	0.2329	0.1179	1.9749	0.7605	3.4087
1498.	3019.	9989.	0.898	0.2366	0.1209	1.9562	0.7593	3.3087
1554.	3517.	10917.	0.931	0.2403	0.1262	1.9038	0.7447	3.1041

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1370.	5894.	824.	1210.	0.2140	0.1042	2.054	0.758	4.301
0.750	1530.	6323.	852.	1252.	0.2145	0.1051	2.041	0.754	4.132
0.775	1717.	6831.	880.	1294.	0.2170	0.1068	2.031	0.755	3.979
0.800	1929.	7390.	909.	1335.	0.2203	0.1091	2.019	0.756	3.830
0.825	2164.	8012.	937.	1377.	0.2246	0.1116	2.012	0.761	3.703
0.850	2423.	8681.	966.	1419.	0.2292	0.1143	2.006	0.766	3.582
0.875	2720.	9362.	994.	1460.	0.2333	0.1176	1.984	0.765	3.441
0.900	3053.	10049.	1022.	1502.	0.2367	0.1213	1.951	0.758	3.292
0.925	3421.	10741.	1051.	1544.	0.2395	0.1252	1.913	0.747	3.140

STATIC PROP PERFORMANCE

47X95 PROP 12JULY66 RUN NO 359

BETA=18.0 AF= 90.0 DIA=13.000 NBL=4 TEMPC= 26.5 TEMPR= 539.39 SIGMA=0.9430

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
705.	304.	2185.	0.421	0.2337	0.1168	1.9999	0.7714	7.1875
802.	455.	2810.	0.479	0.2322	0.1188	1.9549	0.7517	6.1758
1009.	936.	4454.	0.603	0.2325	0.1227	1.8950	0.7292	4.7585
1050.	1049.	4772.	0.628	0.2300	0.1220	1.8852	0.7216	4.5491
1098.	1212.	5270.	0.656	0.2323	0.1233	1.8843	0.7248	4.3482
1151.	1372.	5748.	0.688	0.2306	0.1212	1.9032	0.7293	4.1895
1203.	1570.	6384.	0.719	0.2345	0.1221	1.9196	0.7417	4.0431
1250.	1821.	6935.	0.747	0.2359	0.1256	1.8788	0.7282	3.8083
1297.	2083.	7635.	0.775	0.2412	0.1286	1.8763	0.7354	3.6654
1349.	2367.	8293.	0.806	0.2422	0.1298	1.8654	0.7326	3.5036
1400.	2750.	9205.	0.837	0.2496	0.1350	1.8495	0.7374	3.3473
1469.	3287.	10255.	0.878	0.2526	0.1396	1.8089	0.7254	3.1199
1498.	3534.	10923.	0.895	0.2587	0.1416	1.8274	0.7417	3.0908
1554.	4167.	11813.	0.929	0.2600	0.1495	1.7387	0.7075	2.8349

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1637.	6496.	826.	1213.	0.2346	0.1235	1.900	0.734	3.968
0.750	1839.	7015.	854.	1255.	0.2367	0.1253	1.890	0.734	3.815
0.775	2069.	7589.	883.	1297.	0.2398	0.1278	1.877	0.734	3.668
0.800	2323.	8201.	911.	1339.	0.2432	0.1304	1.865	0.734	3.531
0.825	2599.	8833.	940.	1380.	0.2464	0.1330	1.852	0.733	3.399
0.850	2892.	9529.	968.	1422.	0.2504	0.1354	1.850	0.739	3.295
0.875	3246.	10233.	997.	1464.	0.2537	0.1393	1.822	0.732	3.153
0.900	3643.	10967.	1025.	1506.	0.2570	0.1436	1.789	0.724	3.011
0.925	4082.	11731.	1054.	1548.	0.2603	0.1483	1.755	0.715	2.874

STATIC PROP PERFORMANCE

47X05 PRCP 12JULY66 RUN NO 360

BEIA=20.0 AF= 90.0 DIA=13.000 JRL=4 TEMPC= 27.5 TEMPR= 541.19 SIGMA=0.9400

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/MP
703.	356.	2266.	0.419	0.2437	0.1380	1.7661	0.6957	6.3652
801.	521.	2872.	0.478	0.2379	0.1365	1.7427	0.6783	5.5125
997.	1073.	4596.	0.595	0.2457	0.1458	1.6855	0.6668	4.2833
1053.	1273.	5191.	0.628	0.2488	0.1468	1.6947	0.6746	4.0778
1101.	1459.	5723.	0.657	0.2509	0.1482	1.6929	0.6767	3.8958
1101.	1478.	5745.	0.657	0.2519	0.1491	1.6891	0.6765	3.8870
1140.	1653.	6149.	0.686	0.2475	0.1467	1.6869	0.6698	3.7199
1173.	1782.	6596.	0.700	0.2548	0.1487	1.7136	0.6903	3.7015
1176.	1768.	6521.	0.702	0.2506	0.1464	1.7119	0.6839	3.6883
1197.	1877.	6745.	0.714	0.2502	0.1474	1.6977	0.6777	3.5935
1204.	1937.	6957.	0.718	0.2551	0.1495	1.7067	0.6879	3.5916
1206.	1930.	6915.	0.720	0.2527	0.1482	1.7054	0.6841	3.5829
1221.	2043.	7213.	0.729	0.2571	0.1511	1.7014	0.6885	3.5306
1223.	2007.	7053.	0.730	0.2506	0.1477	1.6963	0.6777	3.5142
1249.	2137.	7394.	0.745	0.2523	0.1481	1.7043	0.6831	3.4600
1250.	2176.	7511.	0.746	0.2555	0.1500	1.7029	0.6869	3.4517
1276.	2371.	7915.	0.761	0.2584	0.1537	1.6812	0.6819	3.3383
1303.	2527.	8298.	0.777	0.2598	0.1538	1.6887	0.6818	3.2837
1325.	2709.	8702.	0.791	0.2634	0.1568	1.6799	0.6880	3.2123
1346.	2838.	8968.	0.803	0.2631	0.1567	1.6787	0.6871	3.1600
1399.	3324.	10021.	0.835	0.2721	0.1635	1.6646	0.6930	3.0147
1473.	4142.	11319.	0.879	0.2773	0.1745	1.5887	0.6676	2.7327

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1990.	7057.	827.	1215.	0.2540	0.1493	1.701	0.684	3.547
0.750	2219.	7585.	856.	1257.	0.2551	0.1504	1.696	0.684	3.418
0.775	2519.	8270.	884.	1299.	0.2605	0.1548	1.683	0.686	3.283
0.800	2809.	8947.	913.	1341.	0.2645	0.1569	1.685	0.692	3.185
0.825	3168.	9671.	941.	1383.	0.2688	0.1614	1.666	0.689	3.053
0.850	3585.	10425.	970.	1425.	0.2730	0.1670	1.635	0.682	2.907
0.875	4063.	11211.	998.	1467.	0.2771	0.1735	1.597	0.671	2.759

STATIC PROCP PERFORMANCE

4 JULY 66 PROP 10 JULY 66 RUN NO 381

BETA= 6.0 AF= 0.0 CIA=13.000 NBL=4 TEMPC= 29.5 TEMPR= 544.79 SIGMA=0.9270

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
703.	92.	1036.	0.418	0.1114	0.0357	3.1244	0.8322	11.2609
804.	134.	1338.	0.478	0.1100	0.0347	3.1685	0.8386	9.9851
999.	261.	1996.	0.594	0.1063	0.0353	3.0153	0.7845	7.6475
1052.	309.	2233.	0.626	0.1072	0.0357	3.0005	0.7841	7.2265
1103.	355.	2460.	0.656	0.1075	0.0356	3.0167	0.7892	6.9296
1147.	396.	2643.	0.682	0.1068	0.0353	3.0214	0.7879	6.6742
1203.	465.	2891.	0.715	0.1062	0.0360	2.9519	0.7676	6.2172
1253.	529.	3107.	0.745	0.1052	0.0362	2.9046	0.7517	5.8733
1306.	594.	3344.	0.777	0.1042	0.0359	2.9018	0.7475	5.6296
1354.	659.	3581.	0.805	0.1038	0.0358	2.9039	0.7467	5.4340
1399.	744.	3862.	0.832	0.1049	0.0366	2.8662	0.7407	5.1909
1473.	879.	4315.	0.876	0.1057	0.0370	2.8539	0.7404	4.9090
1499.	919.	4423.	0.891	0.1046	0.0367	2.8474	0.7349	4.8128
1552.	1020.	4746.	0.923	0.1047	0.0367	2.8501	0.7360	4.6529

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PG

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	484.	2956.	830.	1219.	0.1057	0.0360	2.937	0.762	6.104
0.750	535.	3136.	858.	1261.	0.1048	0.0359	2.918	0.754	5.863
0.775	592.	3338.	887.	1303.	0.1045	0.0360	2.898	0.748	5.635
0.800	652.	3547.	916.	1345.	0.1042	0.0361	2.890	0.744	5.442
0.825	719.	3782.	944.	1387.	0.1044	0.0363	2.880	0.743	5.260
0.850	795.	4035.	973.	1429.	0.1050	0.0367	2.863	0.740	5.075
0.875	870.	4278.	1002.	1471.	0.1050	0.0368	2.855	0.738	4.916
0.900	948.	4523.	1030.	1513.	0.1049	0.0368	2.850	0.737	4.771

STATIC PROP PERFORMANCE

47X96 PROP 15JULY66 RUN NO 373

BETA= 8.0 AF= 90.0 DIA=13.090 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1002.	345.	2356.	0.599	0.1247	0.0462	2.7007	0.7611	6.8290
1050.	395.	2567.	0.628	0.1238	0.0459	2.6932	0.7560	6.4987
1098.	452.	2800.	0.657	0.1234	0.0460	2.6845	0.7527	6.1947
1152.	518.	3074.	0.689	0.1231	0.0456	2.6982	0.7555	5.9344
1199.	589.	3339.	0.717	0.1234	0.0460	2.6827	0.7522	5.6689
1259.	688.	3698.	0.753	0.1240	0.0464	2.6708	0.7505	5.3750
1303.	743.	3973.	0.779	0.1244	0.0452	2.7499	0.7739	5.3472
1350.	828.	4279.	0.807	0.1248	0.0453	2.7535	0.7762	5.1679
1399.	920.	4596.	0.837	0.1248	0.0452	2.7584	0.7776	4.9957
1450.	1040.	4945.	0.867	0.1250	0.0459	2.7211	0.7677	4.7548
1503.	1138.	5325.	0.899	0.1253	0.0451	2.7758	0.7840	4.6793
1550.	1260.	5705.	0.927	0.1262	0.0456	2.7699	0.7853	4.5278

***** F T C CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	609.	3415.	825.	1212.	0.1235	0.0460	2.683	0.753	5.609
0.750	672.	3664.	853.	1254.	0.1239	0.0459	2.698	0.758	5.453
0.775	739.	3927.	882.	1296.	0.1243	0.0457	2.718	0.765	5.316
0.800	806.	4194.	910.	1337.	0.1246	0.0454	2.745	0.773	5.201
0.825	884.	4467.	939.	1379.	0.1248	0.0454	2.749	0.775	5.051
0.850	969.	4743.	967.	1421.	0.1248	0.0455	2.745	0.774	4.895
0.875	1058.	5039.	996.	1463.	0.1252	0.0455	2.751	0.777	4.764
0.900	1151.	5348.	1024.	1505.	0.1256	0.0455	2.760	0.780	4.647
0.925	1248.	5670.	1053.	1546.	0.1260	0.0455	2.772	0.785	4.542

STATIC PROP PERFORMANCE

47X06 PROP 15JULY66 RUN NO 374

BETA=10.0 AF= 0.0 DIA=13.000 N3L=4 TEMPC= 26.0 TEMPR= 536.49 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1001.	385.	2641.	0.599	0.1401	0.0517	2.7101	0.8094	6.8597
1057.	449.	2958.	0.632	0.1407	0.0512	2.7483	0.8227	6.5880
1099.	519.	3222.	0.657	0.1418	0.0527	2.6928	0.8091	6.2081
1148.	587.	3455.	0.687	0.1393	0.0522	2.6668	0.7944	5.8859
1201.	691.	3846.	0.718	0.1417	0.0537	2.6383	0.7926	5.5658
1253.	795.	4226.	0.749	0.1431	0.0544	2.6288	0.7935	5.3157
1309.	882.	4564.	0.778	0.1435	0.0541	2.6550	0.8027	5.1746
1351.	1014.	4945.	0.808	0.1440	0.0554	2.6003	0.7874	4.8767
1404.	1144.	5367.	0.840	0.1447	0.0557	2.5997	0.7892	4.6914
1450.	1273.	5758.	0.867	0.1456	0.0562	2.5885	0.7881	4.5232
1501.	1426.	6223.	0.898	0.1468	0.0568	2.5853	0.7905	4.3640
1550.	1621.	6762.	0.927	0.1496	0.0586	2.5519	0.7876	4.1715

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PB

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	708.	3919.	825.	1212.	0.1418	0.0535	2.649	0.796	5.537
0.750	752.	4226.	853.	1254.	0.1429	0.0541	2.640	0.796	5.335
0.775	882.	4536.	882.	1296.	0.1436	0.0546	2.629	0.795	5.141
0.800	976.	4846.	910.	1337.	0.1440	0.0549	2.621	0.793	4.964
0.825	1079.	5167.	939.	1379.	0.1444	0.0554	2.606	0.790	4.787
0.850	1189.	5503.	967.	1421.	0.1448	0.0558	2.596	0.788	4.629
0.875	1315.	5878.	996.	1463.	0.1460	0.0565	2.582	0.787	4.472
0.900	1452.	6281.	1024.	1505.	0.1475	0.0574	2.570	0.787	4.327
0.925	1600.	6712.	1053.	1546.	0.1492	0.0583	2.561	0.789	4.195

STATIC PROP PERFORMANCE

47X56 PROP 18JULY66 RUN 40 476

BETA=12.0 AH= 0.0 CIA=13.000 ABL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9410

***** RAW DATA PRINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
706.	163.	1594.	0.422	0.1700	0.0624	2.7249	0.8965	9.7791
801.	248.	2010.	0.478	0.1673	0.0650	2.5737	0.8399	8.1411
1000.	404.	3103.	0.597	0.1649	0.0652	2.5304	0.8200	6.4112
1049.	558.	3401.	0.626	0.1643	0.0651	2.5234	0.8162	6.0950
1057.	550.	3401.	0.631	0.1618	0.0627	2.5797	0.8280	6.1836
1102.	649.	3730.	0.658	0.1632	0.0653	2.4997	0.8060	5.7473
1150.	759.	4102.	0.687	0.1649	0.0672	2.4530	0.7948	5.4045
1222.	861.	4495.	0.718	0.1654	0.0668	2.4767	0.8037	5.2207
1249.	963.	4857.	0.745	0.1657	0.0667	2.4843	0.8071	5.0436
1300.	1129.	5303.	0.776	0.1668	0.0680	2.4535	0.7996	4.7818
1307.	1125.	5420.	0.780	0.1686	0.0679	2.4852	0.8144	4.8178
1349.	1235.	5654.	0.800	0.1651	0.0678	2.4355	0.7898	4.5744
1397.	1416.	6270.	0.834	0.1708	0.0699	2.4414	0.8051	4.4280
1404.	1423.	6376.	0.838	0.1719	0.0692	2.4829	0.8215	4.4807
1470.	1702.	7056.	0.878	0.1735	0.0722	2.4053	0.7996	4.11457
1473.	1670.	7035.	0.880	0.1723	0.0704	2.4490	0.8113	4.2126
1499.	1772.	7279.	0.895	0.1722	0.0708	2.4303	0.8047	4.1078
1500.	1777.	7258.	0.996	0.1714	0.0708	2.4221	0.8003	4.0913
1551.	2009.	7896.	0.926	0.1745	0.0725	2.4059	0.8019	3.9303
1553.	2024.	7970.	0.927	0.1756	0.0728	2.4136	0.8072	3.9377

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POINT 2ND ORDER.)

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	890.	4589.	826.	1214.	0.1655	0.0670	2.471	0.802	5.156
0.750	989.	4950.	855.	1256.	0.1668	0.0672	2.482	0.809	5.008
0.775	1096.	5284.	883.	1298.	0.1667	0.0675	2.469	0.804	4.820
0.800	1219.	5653.	912.	1340.	0.1674	0.0683	2.452	0.801	4.638
0.825	1349.	6083.	940.	1382.	0.1694	0.0689	2.459	0.808	4.509
0.850	1507.	6581.	969.	1423.	0.1726	0.0704	2.453	0.813	4.366
0.875	1658.	6995.	997.	1465.	0.1732	0.0710	2.440	0.810	4.219
0.900	1870.	7342.	1026.	1507.	0.1718	0.0708	2.426	0.803	4.079
0.925	2000.	7887.	1054.	1549.	0.1747	0.0725	2.411	0.804	3.944

STATIC PROP PERFORMANCE

47X96 PROP 18JULY66 RUN NO 377

BETA=14.0 AF= 0.0 DIA=13.000 NBL=4 TEMPC= 28.0 TEMPR= 542.09 SIGMA=0.9370

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
732.	191.	1750.	0.418	0.1887	0.0743	2.5386	0.8801	9.1623
801.	281.	2209.	0.478	0.1830	0.0736	2.4852	0.8484	7.8612
1007.	588.	3543.	0.600	0.1857	0.0775	2.3948	0.8235	6.0255
1051.	681.	3863.	0.627	0.1859	0.0790	2.3530	0.8095	5.6725
1100.	784.	4226.	0.656	0.1856	0.0793	2.3402	0.8046	5.3903
1151.	903.	4632.	0.686	0.1858	0.0797	2.3302	0.8016	5.1296
1205.	1053.	5176.	0.718	0.1895	0.0814	2.3267	0.8082	4.8922
1248.	1180.	5507.	0.744	0.1879	0.0818	2.2988	0.7952	4.6669
1298.	1344.	6062.	0.774	0.1912	0.0828	2.3107	0.8063	4.5104
1349.	1527.	6596.	0.804	0.1926	0.0838	2.2998	0.8055	4.3196
1402.	1775.	7044.	0.836	0.1905	0.0867	2.1959	0.7648	3.9685
1472.	2083.	8079.	0.878	0.1982	0.0879	2.2533	0.8005	3.8785
1499.	2206.	8356.	0.894	0.1976	0.0882	2.2410	0.7950	3.7879
1549.	2581.	9306.	0.923	0.2061	0.0935	2.2043	0.7986	3.6056

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1085.	5239.	828.	1216.	0.1883	0.0813	2.317	0.802	4.826
0.750	1209.	5665.	856.	1258.	0.1902	0.0817	2.327	0.810	4.687
0.775	1353.	6030.	885.	1300.	0.1896	0.0830	2.286	0.794	4.456
0.800	1509.	6465.	913.	1342.	0.1908	0.0841	2.269	0.791	4.283
0.825	1683.	6938.	942.	1384.	0.1925	0.0855	2.252	0.788	4.122
0.850	1854.	7384.	971.	1426.	0.1931	0.0861	2.242	0.786	3.984
0.875	2069.	7958.	999.	1469.	0.1963	0.0881	2.229	0.788	3.847
0.900	2309.	8605.	1028.	1510.	0.2007	0.0904	2.221	0.794	3.727

STATIC PROCP PERFORMANCE

47X96 PROCP 19JULY66 RUN NO 378

BETA= 16.0 AF= 90.0 DIA=13.000 NUL=4 TEMPC= 26.5 TEMPR= 539.39 SIGMA=0.9360

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
701.	242.	1902.	0.419	0.2057	0.0946	2.1745	0.7870	7.8595
809.	370.	2521.	0.483	0.2047	0.0941	2.1755	0.7855	6.8135
1036.	743.	3996.	0.601	0.2099	0.0983	2.1354	0.7806	5.3782
1051.	857.	4359.	0.628	0.2097	0.0994	2.1099	0.7711	5.0863
1098.	983.	4808.	0.656	0.2120	0.0997	2.1261	0.7811	4.9061
1152.	1139.	5278.	0.688	0.2114	0.1003	2.1069	0.7730	4.6339
1199.	1307.	5791.	0.717	0.2141	0.1021	2.0967	0.7742	4.4308
1257.	1499.	6303.	0.747	0.2144	0.1034	2.0744	0.7665	4.2048
1299.	1716.	6880.	0.776	0.2167	0.1054	2.0555	0.7636	4.0093
1348.	1944.	7521.	0.806	0.2200	0.1069	2.0583	0.7704	3.8688
1400.	2247.	8248.	0.837	0.2237	0.1103	2.0282	0.7655	3.6707
1471.	2682.	9295.	0.879	0.2283	0.1135	2.0121	0.7672	3.4657
1499.	2868.	9744.	0.896	0.2305	0.1147	2.0100	0.7701	3.3975
1550.	3279.	10556.	0.926	0.2335	0.1186	1.9694	0.7595	3.2193

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FI	TH/HP
0.725	1357.	5909.	826.	1213.	0.2134	0.1023	2.086	0.769	4.356
0.750	1518.	6368.	854.	1255.	0.2149	0.1034	2.077	0.768	4.194
0.775	1703.	6865.	883.	1297.	0.2170	0.1052	2.063	0.767	4.031
0.800	1905.	7390.	911.	1339.	0.2192	0.1069	2.050	0.766	3.880
0.825	2129.	7964.	940.	1380.	0.2221	0.1090	2.038	0.767	3.741
0.850	2366.	8569.	968.	1422.	0.2252	0.1108	2.033	0.770	3.621
0.875	2637.	9194.	997.	1464.	0.2280	0.1131	2.015	0.768	3.487
0.900	2932.	9845.	1025.	1506.	0.2307	0.1156	1.995	0.765	3.357
0.925	3253.	10522.	1054.	1548.	0.2334	0.1182	1.976	0.762	3.234

STATIC PROP PERFORMANCE

47X96 PROP 19JULY66 RUN NO 379

BETA=10.0 AF= 90.0 CIA=13.000 NBL=4 TEMPC= 27.0 TEMPR= 540.29 SIGMA=0.9340

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
698.	287.	2034.	0.417	0.2219	0.1136	1.9524	0.7339	7.0871
806.	449.	2719.	0.481	0.2225	0.1155	1.9264	0.7250	6.0557
1006.	889.	4261.	0.601	0.2238	0.1176	1.9031	0.7184	4.7930
1050.	1008.	4647.	0.627	0.2240	0.1173	1.9105	0.7216	4.6101
1099.	1130.	5118.	0.656	0.2252	0.1197	1.8813	0.7125	4.3373
1149.	1354.	5696.	0.686	0.2293	0.1202	1.9077	0.7290	4.2068
1200.	1546.	6210.	0.717	0.2292	0.1205	1.9024	0.7268	4.0168
1250.	1808.	6916.	0.746	0.2353	0.1247	1.8872	0.7304	3.8252
1306.	2086.	7589.	0.780	0.2362	0.1261	1.8730	0.7264	3.6337
1355.	2367.	8244.	0.809	0.2386	0.1281	1.8626	0.7261	3.4829
1400.	2691.	9015.	0.836	0.2445	0.1321	1.8511	0.7304	3.3501
1471.	3264.	10128.	0.878	0.2488	0.1381	1.8015	0.7170	3.1029
1497.	3559.	10707.	0.894	0.2539	0.1429	1.7775	0.7148	3.0084
1552.	4075.	11520.	0.927	0.2542	0.1468	1.7317	0.6967	2.8270

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1624.	6433.	826.	1214.	0.2319	0.1222	1.898	0.729	3.961
0.750	1819.	6926.	855.	1256.	0.2333	0.1236	1.887	0.728	3.808
0.775	2042.	7478.	883.	1298.	0.2359	0.1258	1.876	0.727	3.662
0.800	2285.	8073.	912.	1340.	0.2391	0.1280	1.868	0.729	3.533
0.825	2551.	8669.	940.	1382.	0.2414	0.1302	1.853	0.727	3.399
0.850	2876.	9388.	969.	1423.	0.2462	0.1343	1.834	0.726	3.265
0.875	3231.	10076.	997.	1465.	0.2494	0.1383	1.804	0.719	3.119
0.900	3624.	10783.	1026.	1507.	0.2523	0.1425	1.770	0.709	2.975
0.925	4055.	11506.	1054.	1549.	0.2549	0.1469	1.735	0.699	2.838

STATIC PROP PERFORMANCE

47806 PROP 19JULY66 RUN NO 380

BETA=20.0 AF= 90.0 CIA=13.000 NCL=4 TEMPC= 27.5 TEMPR= 541.19 SIGMA=0.9320

***** RAW DATA POINTS *****

RPM	IP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RIH/HP
701.	346.	2167.	0.418	0.2344	0.1353	1.7328	0.6694	6.2630
800.	524.	2876.	0.477	0.2388	0.1378	1.7330	0.6758	5.4885
1004.	1057.	4442.	0.599	0.2342	0.1406	1.6653	0.6431	4.2025
1047.	1187.	4893.	0.625	0.2372	0.1393	1.7034	0.6621	4.1222
1099.	1425.	5644.	0.656	0.2484	0.1446	1.7180	0.6832	3.9607
1101.	1428.	5536.	0.657	0.2427	0.1441	1.6846	0.6623	3.8768
1150.	1593.	6009.	0.686	0.2415	0.1411	1.7121	0.6714	3.7721
1151.	1585.	5944.	0.687	0.2385	0.1400	1.7036	0.6639	3.7502
1201.	1862.	6652.	0.717	0.2451	0.1446	1.6952	0.6697	3.5763
1249.	2127.	7253.	0.745	0.2471	0.1470	1.6810	0.6668	3.4100
1298.	2433.	7940.	0.774	0.2505	0.1498	1.6719	0.6677	3.2635
1299.	2413.	7940.	0.775	0.2501	0.1482	1.6870	0.6732	3.2905
1349.	2792.	8820.	0.805	0.2576	0.1532	1.6819	0.6812	3.1590
1405.	3221.	9828.	0.838	0.2646	0.1612	1.6410	0.6736	2.9593
1473.	4022.	10987.	0.879	0.2691	0.1695	1.5881	0.6575	2.7317

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1936.	6820.	827.	1215.	0.2455	0.1453	1.689	0.668	3.522
0.750	2170.	7358.	856.	1257.	0.2475	0.1471	1.683	0.668	3.391
0.775	2426.	7962.	884.	1299.	0.2508	0.1490	1.683	0.673	3.283
0.800	2737.	8672.	913.	1341.	0.2564	0.1529	1.677	0.677	3.168
0.825	3095.	9384.	941.	1383.	0.2609	0.1576	1.655	0.674	3.032
0.850	3500.	10123.	970.	1425.	0.2651	0.1630	1.626	0.668	2.892
0.875	3953.	10891.	998.	1467.	0.2691	0.1688	1.594	0.660	2.755

STATIC PROCP PERFORMANCE

47X97 PROCP RUN NO 394 30JULY66

DETA= 2.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 20.5 TEMPR= 528.59 SIGMA=0.9610

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
704.	61.	645.	0.425	0.0692	0.0235	2.9380	0.6166	10.5738
808.	91.	812.	0.488	0.0661	0.0232	2.8456	0.5838	8.9231
1003.	165.	1228.	0.606	0.0649	0.0220	2.9462	0.5988	7.4424
1049.	197.	1353.	0.633	0.0653	0.0230	2.8435	0.5801	6.8680
1097.	232.	1488.	0.662	0.0657	0.0237	2.7769	0.5681	6.4138
1147.	259.	1602.	0.692	0.0647	0.0231	2.8001	0.5684	6.1853
1200.	295.	1727.	0.724	0.0637	0.0230	2.7727	0.5586	5.8542
1249.	330.	1863.	0.754	0.0635	0.0228	2.7830	0.5595	5.6455
1300.	375.	2019.	0.785	0.0635	0.0230	2.7624	0.5555	5.3840
1353.	437.	2227.	0.817	0.0647	0.0238	2.7213	0.5522	5.0961
1403.	481.	2352.	0.847	0.0635	0.0235	2.7077	0.5445	4.8898
1449.	552.	2497.	0.875	0.0632	0.0244	2.5870	0.5190	4.5236
1470.	572.	2570.	0.887	0.0632	0.0242	2.6068	0.5230	4.4930
1498.	607.	2622.	0.904	0.0621	0.0243	2.5539	0.5079	4.3196
1501.	596.	2664.	0.906	0.0628	0.0237	2.6480	0.5297	4.4698
1548.	699.	2872.	0.935	0.0637	0.0254	2.5103	0.5056	4.1087

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	293.	1727.	817.	1201.	0.0636	0.0228	2.793	0.562	5.893
0.750	325.	1844.	846.	1242.	0.0635	0.0228	2.779	0.559	5.668
0.775	363.	1975.	874.	1284.	0.0637	0.0231	2.760	0.556	5.447
0.800	401.	2113.	902.	1325.	0.0640	0.0232	2.758	0.557	5.274
0.825	446.	2249.	930.	1367.	0.0640	0.0236	2.718	0.549	5.040
0.850	495.	2384.	958.	1408.	0.0639	0.0239	2.674	0.539	4.812
0.875	545.	2496.	997.	1449.	0.0631	0.0241	2.620	0.525	4.580
0.900	597.	2626.	1015.	1491.	0.0628	0.0243	2.587	0.517	4.397
0.925	665.	2793.	1043.	1532.	0.0632	0.0249	2.541	0.510	4.202

STATIC P2CP PERFORMANCE

47X97 FRUP RUN NO 395 30JULY66

BETA= 4.0 AF=120.0 CIA=13.000 NOL=4 TEMPC= 20.5 TEMPR= 528.59 SIGMA=0.9610

***** FAN DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
709.	81.	874.	0.428	0.0924	0.0306	3.0194	0.7325	10.7901
794.	109.	1061.	0.482	0.0883	0.0288	3.0696	0.7280	9.7339
997.	204.	1602.	0.602	0.0357	0.0277	3.0901	0.7217	7.8529
1053.	248.	1748.	0.636	0.0838	0.0286	2.9293	0.6766	7.0484
1102.	277.	1935.	0.665	0.0847	0.0279	3.0383	0.7056	6.9856
1152.	325.	2081.	0.695	0.0833	0.0286	2.9113	0.6707	6.4031
1199.	366.	2227.	0.724	0.0823	0.0286	2.8794	0.6593	6.0847
1246.	408.	2414.	0.752	0.0826	0.0284	2.9096	0.6675	5.9167
1301.	468.	2601.	0.785	0.0817	0.0286	2.8538	0.6508	5.5577
1352.	528.	2810.	0.816	0.0817	0.0288	2.8398	0.6478	5.3220
1404.	615.	3080.	0.848	0.0830	0.0299	2.7752	0.6382	5.0081
1455.	682.	3299.	0.878	0.0828	0.0298	2.7778	0.6379	4.8372
1469.	711.	3382.	0.887	0.0833	0.0302	2.7579	0.6352	4.7567
1498.	749.	3496.	0.904	0.0828	0.0300	2.7596	0.6337	4.6676
1553.	849.	3777.	0.938	0.0832	0.0305	2.7268	0.6278	4.4488

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	366.	2243.	817.	1201.	0.0827	0.0285	2.901	0.665	6.120
0.750	407.	2387.	846.	1242.	0.0822	0.0286	2.875	0.658	5.863
0.775	447.	2538.	874.	1284.	0.0818	0.0285	2.876	0.657	5.676
0.800	493.	2709.	902.	1325.	0.0820	0.0288	2.845	0.650	5.440
0.825	553.	2884.	930.	1367.	0.0821	0.0292	2.812	0.643	5.215
0.850	615.	3087.	958.	1408.	0.0828	0.0297	2.788	0.640	5.017
0.875	677.	3278.	987.	1449.	0.0829	0.0299	2.771	0.637	4.844
0.900	743.	3477.	1015.	1491.	0.0831	0.0302	2.753	0.633	4.679
0.925	811.	3673.	1043.	1532.	0.0831	0.0304	2.738	0.630	4.527

STATIC PROP PERFORMANCE

47X97 PROP RUN NO 396 30JULY66

BETA= 6.0 AF=12.0 DIA=13.00 NBL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9560

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCF	RCP	RCT/CP	RFM	RTH/HP
697.	86.	1004.	0.420	0.1098	0.0342	3.2115	0.8494	11.6744
797.	128.	1276.	0.480	0.1068	0.0340	3.1358	0.8176	9.9688
801.	135.	1276.	0.482	0.1057	0.0354	2.9881	0.7752	9.4519
998.	253.	1925.	0.601	0.1027	0.0343	2.9970	0.7665	7.6087
1052.	295.	2113.	0.633	0.1015	0.0341	2.9740	0.7560	7.1627
1099.	339.	2291.	0.662	0.1008	0.0344	2.9314	0.7427	6.7581
1151.	390.	2469.	0.693	0.0991	0.0344	2.8759	0.7223	6.3308
1205.	447.	2720.	0.726	0.0996	0.0344	2.8940	0.7287	6.0850
1247.	500.	2908.	0.751	0.0994	0.0347	2.8624	0.7201	5.8160
1255.	514.	2939.	0.756	0.0992	0.0350	2.8322	0.7118	5.7179
1298.	572.	3180.	0.782	0.1003	0.0352	2.8481	0.7198	5.5594
1307.	566.	3222.	0.787	0.1002	0.0341	2.9365	0.7419	5.6926
1350.	637.	3431.	0.813	0.1001	0.0349	2.8699	0.7244	5.3862
1351.	648.	3452.	0.814	0.1005	0.0354	2.8405	0.7187	5.3272
1399.	727.	3703.	0.842	0.1006	0.0358	2.8124	0.7117	5.0935
1404.	741.	3703.	0.845	0.0998	0.0361	2.7692	0.6982	4.9973
1450.	827.	4059.	0.873	0.1026	0.0365	2.8088	0.7180	4.9081
1454.	818.	3996.	0.876	0.1005	0.0358	2.8034	0.7091	4.8851
1469.	844.	4079.	0.885	0.1005	0.0359	2.8021	0.7087	4.8329
1497.	907.	4247.	0.901	0.1007	0.0364	2.7666	0.7007	4.6825
1501.	898.	4226.	0.904	0.0997	0.0358	2.7879	0.7024	4.7060
1551.	1007.	4498.	0.934	0.0994	0.0363	2.7343	0.6879	4.4667

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CF	CP	CT/CP	FM	TH/HP
0.725	448.	2707.	820.	1204.	0.0993	0.0346	2.870	0.722	6.039
0.750	499.	2900.	848.	1245.	0.0994	0.0348	2.856	0.718	5.809
0.775	551.	3112.	876.	1287.	0.0999	0.0348	2.869	0.723	5.647
0.800	607.	3332.	904.	1329.	0.1003	0.0348	2.880	0.728	5.492
0.825	677.	3531.	933.	1370.	0.1000	0.0354	2.821	0.712	5.217
0.850	753.	3772.	961.	1412.	0.1006	0.0360	2.792	0.707	5.011
0.875	822.	4021.	989.	1453.	0.1012	0.0361	2.806	0.712	4.893
0.900	892.	4208.	1017.	1495.	0.1001	0.0360	2.781	0.702	4.715
0.925	975.	4417.	1046.	1536.	0.0995	0.0362	2.748	0.692	4.532

STATIC PROP PERFORMANCE

47X97 FRUP JUN 79 397 30JUL 66

BETA= 8.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 22.5 TEMPR= 532.19 SIGMA=0.9540

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
737.	121.	1258.	0.425	0.1338	0.0461	2.9011	0.8467	10.3967
811.	183.	1614.	0.488	0.1304	0.0462	2.8230	0.8136	8.8197
1002.	342.	2348.	0.603	0.1243	0.0458	2.7151	0.7639	6.8655
1051.	396.	2600.	0.632	0.1251	0.0459	2.7235	0.7687	6.5657
1099.	454.	2830.	0.661	0.1245	0.0461	2.7038	0.7614	6.2335
1150.	519.	3124.	0.692	0.1255	0.0460	2.7320	0.7725	6.0193
1200.	589.	3396.	0.722	0.1253	0.0459	2.7307	0.7715	5.7657
1253.	674.	3669.	0.754	0.1242	0.0461	2.6921	0.7571	5.4436
1299.	745.	3941.	0.781	0.1243	0.0459	2.7100	0.7625	5.2899
1353.	851.	4256.	0.814	0.1236	0.0463	2.6706	0.7492	5.0012
1401.	964.	4644.	0.843	0.1258	0.0472	2.6638	0.7538	4.8174
1454.	1099.	5084.	0.875	0.1278	0.0481	2.6571	0.7581	4.6302
1468.	1138.	5178.	0.883	0.1277	0.0484	2.6363	0.7518	4.5501
1502.	1212.	5430.	0.904	0.1279	0.0482	2.6559	0.7580	4.4802
1550.	1349.	5765.	0.933	0.1275	0.0488	2.6144	0.7450	4.2735

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	597.	3417.	820.	1205.	0.1251	0.0459	2.724	0.769	5.727
0.750	661.	3648.	848.	1247.	0.1248	0.0460	2.715	0.765	5.518
0.775	730.	3873.	877.	1288.	0.1241	0.0460	2.698	0.758	5.307
0.800	806.	4123.	905.	1330.	0.1239	0.0462	2.683	0.754	5.113
0.825	892.	4409.	933.	1371.	0.1246	0.0466	2.675	0.754	4.943
0.850	994.	4731.	962.	1413.	0.1260	0.0475	2.654	0.752	4.761
0.875	1097.	5076.	990.	1454.	0.1276	0.0481	2.655	0.757	4.625
0.900	1204.	5386.	1018.	1496.	0.1279	0.0484	2.642	0.754	4.474
0.925	1313.	5680.	1046.	1537.	0.1277	0.0487	2.625	0.749	4.326

STATIC PRCP PERFORMANCE

47X97 PROP RUN NO 383 25JULY66

BETA=10.0 AF=120.0 CIA=13.000 NBL=4 TEMPC= 26.5 TEMPR= 539.39 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
701.	149.	1412.	0.419	0.1527	0.0582	2.6219	0.8176	9.4765
801.	226.	1855.	0.479	0.1537	0.0592	2.5949	0.8117	8.2080
1001.	444.	2866.	0.598	0.1520	0.0596	2.5502	0.7935	6.4550
1052.	517.	3119.	0.629	0.1498	0.0598	2.5049	0.7736	6.0329
1100.	602.	3477.	0.657	0.1527	0.0609	2.5075	0.7820	5.7757
1152.	680.	3751.	0.688	0.1502	0.0599	2.5080	0.7757	5.5162
1201.	795.	4215.	0.718	0.1553	0.0618	2.5132	0.7904	5.3019
1251.	897.	4552.	0.748	0.1546	0.0617	2.5056	0.7862	5.0747
1301.	1027.	4953.	0.778	0.1555	0.0628	2.4764	0.7793	4.8228
1355.	1166.	5374.	0.810	0.1556	0.0631	2.4648	0.7758	4.6089
1401.	1295.	5785.	0.837	0.1566	0.0634	2.4701	0.7802	4.4672
1469.	1516.	6386.	0.878	0.1573	0.0644	2.4423	0.7729	4.2124
1502.	1641.	6744.	0.898	0.1589	0.0652	2.4363	0.7749	4.1097
1553.	1845.	7292.	0.928	0.1607	0.0663	2.4225	0.7749	3.9523

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	814.	4265.	826.	1213.	0.1540	0.0614	2.508	0.786	5.238
0.750	912.	4594.	854.	1255.	0.1550	0.0622	2.494	0.784	5.036
0.775	1015.	4928.	883.	1297.	0.1558	0.0627	2.485	0.783	4.856
0.800	1120.	5246.	911.	1339.	0.1556	0.0629	2.474	0.779	4.683
0.825	1237.	5597.	940.	1380.	0.1561	0.0633	2.464	0.777	4.523
0.850	1361.	5960.	968.	1422.	0.1566	0.0637	2.458	0.776	4.379
0.875	1502.	6357.	997.	1464.	0.1576	0.0644	2.446	0.775	4.234
0.900	1655.	6781.	1025.	1506.	0.1589	0.0653	2.435	0.774	4.096
0.925	1822.	7230.	1054.	1548.	0.1604	0.0662	2.424	0.775	3.968

STATIC PRCP PERFORMANCE

47X97 FRUP RUN NO 384 25JULY66

BETA=12.0 AF=120.0 DIA=13.000 NUL=4 TEMPC= 26.5 TEMPR= 539.39 SIGMA=0.9490

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
697.	181.	1602.	0.417	0.1753	0.0720	2.4348	0.8134	8.8508
799.	271.	2065.	0.478	0.1719	0.0715	2.4029	0.7951	7.6199
1002.	541.	3235.	0.599	0.1713	0.0724	2.3648	0.7809	5.9797
1051.	639.	3604.	0.628	0.1734	0.0741	2.3395	0.7775	5.6401
1097.	737.	3962.	0.656	0.1750	0.0752	2.3275	0.7770	5.3758
1148.	839.	4362.	0.686	0.1759	0.0747	2.3556	0.7884	5.1990
1199.	958.	4763.	0.717	0.1761	0.0748	2.3528	0.7879	4.9718
1248.	1075.	5121.	0.746	0.1748	0.0745	2.3464	0.7827	4.7637
1304.	1265.	5711.	0.779	0.1785	0.0768	2.3235	0.7834	4.5146
1350.	1422.	6154.	0.807	0.1795	0.0778	2.3059	0.7795	4.3277
1399.	1614.	6681.	0.836	0.1814	0.0794	2.2856	0.7769	4.1394
1477.	1933.	7566.	0.883	0.1843	0.0808	2.2817	0.7817	3.9141
1499.	2022.	7787.	0.896	0.1842	0.0808	2.2784	0.7803	3.8511
1550.	2301.	8430.	0.926	0.1865	0.0832	2.2412	0.7724	3.6636

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	989.	4862.	826.	1213.	0.1756	0.0746	2.354	0.787	4.916
0.750	1104.	5223.	854.	1255.	0.1763	0.0753	2.342	0.785	4.729
0.775	1235.	5612.	883.	1297.	0.1774	0.0762	2.327	0.782	4.546
0.800	1381.	6035.	911.	1339.	0.1790	0.0776	2.308	0.779	4.369
0.825	1541.	6489.	940.	1380.	0.1810	0.0789	2.295	0.779	4.212
0.850	1696.	6929.	968.	1422.	0.1821	0.0794	2.293	0.781	4.085
0.875	1876.	7399.	997.	1464.	0.1835	0.0805	2.279	0.779	3.944
0.900	2071.	7889.	1025.	1506.	0.1849	0.0817	2.264	0.777	3.810
0.925	2281.	8399.	1054.	1548.	0.1863	0.0828	2.250	0.775	3.683

STATIC PROCP PERFORMANCE

47X97 PROP RUN NO 385 25JULY66

BETA=14.0 AF=120.0 DIA=13.000 NBL=4 TEMPC= 29.0 TEMPR= 543.89 SIGMA=0.9400

***** RAW DATA POINTS *****

RPM	HP	TH	T/MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
702.	224.	1862.	0.418	0.2008	0.0872	2.3031	0.8236	8.3125
807.	342.	2404.	0.480	0.1962	0.0876	2.2389	0.7914	7.0292
998.	661.	3681.	0.594	0.1964	0.0895	2.1935	0.7758	5.5688
1053.	791.	4141.	0.627	0.1985	0.0912	2.1757	0.7735	5.2351
1100.	898.	4521.	0.655	0.1986	0.0909	2.1857	0.7773	5.0345
1151.	1040.	4979.	0.685	0.1998	0.0918	2.1748	0.7757	4.7875
1202.	1174.	5362.	0.715	0.1972	0.0910	2.1667	0.7679	4.5673
1247.	1342.	5915.	0.742	0.2022	0.0932	2.1693	0.7784	4.4076
1302.	1555.	6489.	0.775	0.2034	0.0949	2.1444	0.7719	4.1730
1350.	1753.	7043.	0.803	0.2054	0.0959	2.1407	0.7742	4.0177
1399.	1963.	7596.	0.833	0.2063	0.0965	2.1366	0.7744	3.8696
1453.	2262.	8362.	0.865	0.2105	0.0993	2.1200	0.7762	3.6967
1470.	2324.	8447.	0.875	0.2078	0.0985	2.1088	0.7670	3.6347
1501.	2519.	8926.	0.893	0.2106	0.1003	2.0992	0.7687	3.5435
1550.	2876.	9809.	0.923	0.2170	0.1040	2.0865	0.7756	3.4106
1550.	2926.	9862.	0.923	0.2182	0.1058	2.0619	0.7685	3.3705

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1239.	5582.	829.	1218.	0.1999	0.0923	2.167	0.773	4.507
0.750	1389.	6026.	858.	1260.	0.2017	0.0935	2.157	0.773	4.338
0.775	1548.	6484.	886.	1302.	0.2032	0.0944	2.152	0.774	4.188
0.800	1726.	6974.	915.	1344.	0.2052	0.0957	2.143	0.775	4.040
0.825	1914.	7464.	944.	1386.	0.2064	0.0968	2.133	0.773	3.899
0.850	2115.	7979.	972.	1428.	0.2079	0.0978	2.126	0.774	3.772
0.875	2336.	8502.	1001.	1470.	0.2091	0.0990	2.112	0.771	3.639
0.900	2612.	9155.	1029.	1512.	0.2128	0.1017	2.092	0.770	3.505

STATIC PROP PERFORMANCE

47X77 PROP RUN NO 386 25JULY66

BETA=16.0 AF=125.0 DIA=13.000 NBL=4 TEMPC= 29.0 IEPR= 543.89 SIGMA=0.9400

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
707.	279.	2085.	0.421	0.2217	0.1059	2.0928	0.7863	7.5000
802.	404.	2638.	0.477	0.2180	0.1055	2.0669	0.7701	6.5297
1000.	813.	4128.	0.595	0.2194	0.1095	2.0040	0.7491	5.0775
1052.	961.	4660.	0.626	0.2238	0.1112	2.0134	0.7601	4.8491
1104.	1107.	5106.	0.657	0.2227	0.1108	2.0098	0.7568	4.6125
1156.	1274.	5574.	0.688	0.2217	0.1111	1.9962	0.7500	4.3752
1198.	1441.	6043.	0.713	0.2238	0.1129	1.9829	0.7485	4.1936
1248.	1652.	6681.	0.743	0.2280	0.1145	1.9920	0.7590	4.0442
1297.	1906.	7383.	0.772	0.2333	0.1176	1.9829	0.7642	3.8736
1349.	2189.	8074.	0.803	0.2358	0.1201	1.9638	0.7610	3.6884
1390.	2473.	8766.	0.833	0.2380	0.1216	1.9572	0.7620	3.5447
1450.	2813.	9617.	0.863	0.2431	0.1251	1.9427	0.7644	3.3946
1467.	2972.	9894.	0.873	0.2443	0.1268	1.9275	0.7603	3.3291
1500.	3222.	10383.	0.893	0.2453	0.1286	1.9078	0.7540	3.2225
1549.	3564.	11277.	0.922	0.2498	0.1328	1.8816	0.7505	3.0778

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCKREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1523.	6303.	829.	1218.	0.2258	0.1134	1.990	0.7555	4.140
0.750	1710.	6862.	858.	1260.	0.2297	0.1157	1.986	0.759	3.992
0.775	1925.	7416.	886.	1302.	0.2325	0.1174	1.980	0.762	3.853
0.800	2156.	8007.	915.	1344.	0.2355	0.1195	1.970	0.763	3.714
0.825	2407.	8614.	944.	1386.	0.2383	0.1217	1.958	0.763	3.579
0.850	2679.	9246.	972.	1428.	0.2409	0.1239	1.945	0.762	3.451
0.875	2986.	9920.	1001.	1470.	0.2439	0.1266	1.928	0.760	3.322
0.900	3332.	10626.	1029.	1512.	0.2470	0.1298	1.903	0.755	3.189

STATIC PROCP PERFORMANCE

47X97 PROCP RUN NO 387 25JULY66

BETA=18.0 AF=120.0 DIA=13.000 VBL=4 TEMPC= 29.5 TEMPR= 544.79 SIGMA=0.9390

***** RAW DATA POINTS *****

RPM	HP	TH	T ² MACH	RCT	RCP	RCT/CP	RFM	RTH/HP
710.	337.	2290.	0.422	0.2414	0.1268	1.9042	0.7467	6.7953
800.	498.	2939.	0.476	0.2441	0.1284	1.9016	0.7497	6.0225
1002.	988.	4643.	0.596	0.2458	0.1323	1.8585	0.7353	4.6994
1054.	1144.	5112.	0.627	0.2446	0.1316	1.8589	0.7336	4.4685
1100.	1300.	5517.	0.654	0.2423	0.1315	1.8425	0.7238	4.2438
1150.	1507.	6113.	0.684	0.2457	0.1334	1.8411	0.7282	4.0564
1204.	1743.	6709.	0.716	0.2460	0.1345	1.8291	0.7239	3.8491
1250.	2011.	7476.	0.743	0.2543	0.1387	1.8341	0.7381	3.7176
1306.	2324.	8179.	0.777	0.2549	0.1405	1.8141	0.7308	3.5194
1350.	2663.	8988.	0.803	0.2621	0.1458	1.7983	0.7347	3.3751
1400.	3034.	9776.	0.833	0.2651	0.1489	1.7804	0.7315	3.2221
1451.	3465.	10671.	0.863	0.2694	0.1527	1.7637	0.7305	3.0797
1470.	3614.	11012.	0.874	0.2709	0.1532	1.7678	0.7342	3.0470
1505.	3956.	11544.	0.895	0.2709	0.1563	1.7333	0.7199	2.9181

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1827.	6967.	830.	1219.	0.2491	0.1358	1.835	0.731	3.813
0.750	2062.	7566.	858.	1261.	0.2528	0.1384	1.827	0.733	3.670
0.775	2324.	8195.	887.	1303.	0.2564	0.1414	1.814	0.733	3.526
0.800	2617.	8877.	916.	1345.	0.2607	0.1447	1.801	0.734	3.393
0.825	2931.	9551.	944.	1387.	0.2638	0.1478	1.784	0.731	3.259
0.850	3278.	10309.	973.	1429.	0.2682	0.1512	1.774	0.733	3.145
0.875	3642.	11007.	1002.	1471.	0.2702	0.1539	1.755	0.728	3.023

STATIC PROCP PERFORMANCE

47X97 PROCP RUN NO 388 25JULY66

BETA=20.0 AF=120.0 CIA=13.000 NBL=4 TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
706.	433.	2451.	0.422	0.2614	0.1551	1.7074	0.6965	6.1275
800.	594.	3212.	0.479	0.2667	0.1562	1.7074	0.7037	5.4074
1004.	1226.	5092.	0.601	0.2685	0.1631	1.6458	0.6805	4.1533
1057.	1435.	5663.	0.632	0.2694	0.1636	1.6463	0.6819	3.9463
1098.	1614.	6149.	0.657	0.2711	0.1642	1.6510	0.6860	3.8098
1153.	1861.	6793.	0.690	0.2716	0.1635	1.6611	0.6908	3.6502
1200.	2129.	7406.	0.718	0.2734	0.1659	1.6475	0.6874	3.4786
1249.	2466.	8220.	0.747	0.2801	0.1704	1.6432	0.6939	3.3333
1299.	2826.	8906.	0.777	0.2805	0.1736	1.6157	0.6829	3.1515
1350.	3305.	9910.	0.807	0.2890	0.1809	1.5976	0.6854	2.9985
1400.	3765.	10755.	0.837	0.2916	0.1848	1.5784	0.6802	2.8566
1440.	4208.	11516.	0.861	0.2952	0.1898	1.5554	0.6743	2.7367

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2203.	7598.	825.	1212.	0.2749	0.1666	1.650	0.690	3.449
0.750	2495.	8246.	853.	1254.	0.2787	0.1704	1.636	0.689	3.305
0.775	2817.	8919.	882.	1296.	0.2824	0.1744	1.619	0.687	3.167
0.800	3173.	9640.	910.	1337.	0.2864	0.1786	1.604	0.685	3.038
0.825	3567.	10383.	939.	1379.	0.2901	0.1831	1.584	0.681	2.911
0.850	3998.	11158.	967.	1421.	0.2937	0.1876	1.565	0.677	2.791

STATIC PROP PERFORMANCE

FSC 47X121 PRCP RUN NO 414 13SEPI66

BETA= 4.0 AF=117.5 DIA=13.000 NBL=4 TEMPC= 20.0 TEMPR= 527.69 SIGMA=0.9670

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
906.	172.	1406.	0.547	0.0910	0.0311	2.9230	0.7038	8.1744
951.	194.	1510.	0.575	0.0887	0.0304	2.9215	0.6945	7.7835
1005.	228.	1706.	0.607	0.0898	0.0302	2.9679	0.7096	7.4825
1059.	265.	1882.	0.640	0.0892	0.0300	2.9683	0.7074	7.1019
1109.	301.	1986.	0.665	0.0872	0.0305	2.8645	0.6751	6.5980
1148.	339.	2172.	0.694	0.0876	0.0302	2.9030	0.6856	6.4071
1200.	392.	2389.	0.725	0.0882	0.0305	2.8864	0.6840	6.0944
1251.	457.	2627.	0.756	0.0892	0.0314	2.8382	0.6765	5.7484
1298.	494.	2771.	0.784	0.0874	0.0304	2.8736	0.6780	5.6093
1353.	560.	3040.	0.818	0.0883	0.0304	2.8989	0.6873	5.4286
1401.	642.	3226.	0.847	0.0874	0.0314	2.7785	0.6553	5.0249
1449.	709.	3454.	0.876	0.0874	0.0314	2.7861	0.6574	4.8717
1500.	781.	3681.	0.906	0.0870	0.0312	2.7903	0.6566	4.7132
1554.	881.	3909.	0.939	0.0860	0.0316	2.7214	0.6370	4.4370

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CI	CP	CI/CP	FM	TH/HP
0.725	394.	2385.	817.	1200.	0.0881	0.0307	2.864	0.678	6.048
0.750	438.	2561.	845.	1241.	0.0884	0.0308	2.867	0.680	5.853
0.775	482.	2736.	873.	1283.	0.0884	0.0307	2.876	0.682	5.681
0.800	530.	2904.	901.	1324.	0.0880	0.0307	2.863	0.678	5.480
0.825	584.	3076.	929.	1365.	0.0877	0.0309	2.838	0.671	5.267
0.850	643.	3266.	958.	1407.	0.0877	0.0311	2.819	0.666	5.077
0.875	706.	3449.	986.	1448.	0.0874	0.0313	2.794	0.659	4.888
0.900	771.	3631.	1014.	1489.	0.0870	0.0314	2.769	0.652	4.710
0.925	839.	3811.	1042.	1531.	0.0864	0.0315	2.744	0.644	4.542

STATIC PROP PERFORMANCE

HSC 47X121 PRUP RUN NO 415 13SEPT66

BETA= 6.0 AF=117.5 HIA=13.000 NBL=4 TEMPC= 19.5 TEMPR= 526.79 SIGMA=0.0690

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
903.	210.	1651.	0.546	0.1076	0.0384	2.8020	0.7335	7.8619
950.	245.	1837.	0.575	0.1082	0.0385	2.8113	0.7379	7.4980
1008.	292.	2043.	0.610	0.1069	0.0384	2.7835	0.7261	6.9966
1049.	311.	2167.	0.634	0.1047	0.0363	2.8848	0.7448	6.9678
1100.	369.	2394.	0.665	0.1052	0.0373	2.8167	0.7289	6.4878
1148.	420.	2621.	0.694	0.1057	0.0374	2.8275	0.7336	6.2405
1202.	487.	2869.	0.727	0.1055	0.0378	2.7948	0.7245	5.8912
1249.	558.	3179.	0.755	0.1083	0.0386	2.8084	0.7376	5.6971
1301.	622.	3406.	0.787	0.1070	0.0380	2.8117	0.7338	5.4759
1355.	716.	3695.	0.819	0.1070	0.0388	2.7599	0.7203	5.1606
1403.	796.	4004.	0.848	0.1081	0.0388	2.7854	0.7308	5.0302
1452.	897.	4314.	0.878	0.1088	0.0395	2.7561	0.7253	4.8094
1507.	1020.	4623.	0.911	0.1082	0.0401	2.6958	0.7076	4.5324
1552.	1122.	4954.	0.939	0.1093	0.0404	2.7046	0.7136	4.4153

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	486.	2877.	816.	1199.	0.1064	0.0380	2.802	0.729	5.922
0.750	539.	3096.	844.	1240.	0.1070	0.0381	2.809	0.733	5.740
0.775	599.	3311.	872.	1282.	0.1072	0.0383	2.796	0.730	5.527

UNDRFLCW AT 61661 IN MQ

UNDRFLCW AT 61661 IN MQ	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.800	661.	3535.	900.	1323.	0.1073	0.0384	2.794	0.730	5.351
0.825	727.	3767.	929.	1364.	0.1076	0.0386	2.739	0.730	5.179
0.850	805.	4011.	957.	1406.	0.1079	0.0390	2.765	0.725	4.984
0.875	887.	4265.	985.	1447.	0.1083	0.0394	2.746	0.721	4.808
0.900	975.	4526.	1013.	1488.	0.1086	0.0398	2.726	0.717	4.641
0.925	1070.	4795.	1041.	1530.	0.1089	0.0402	2.707	0.713	4.484

STATIC PROP PERFORMANCE

FSC 47X121 PROP RUN NO 416 13SEPT66

BETA= 8.0 AF=117.5 DIA=13.000 NBL=4 TEMPC= 18.5 TEMPR= 524.99 SIGMA=0.9720

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
903.	262.	1935.	0.547	0.1261	0.0479	2.6322	0.7460	7.3855
951.	305.	2182.	0.576	0.1282	0.0478	2.6852	0.7673	7.1541
1002.	348.	2367.	0.607	0.1253	0.0466	2.6899	0.7598	6.8017
1055.	412.	2635.	0.639	0.1258	0.0472	2.6631	0.7538	6.3956
1101.	468.	2882.	0.667	0.1264	0.0472	2.6760	0.7591	6.1581
1149.	536.	3150.	0.696	0.1268	0.0476	2.6651	0.7574	5.8769
1198.	606.	3397.	0.726	0.1258	0.0475	2.6505	0.7502	5.6056
1247.	693.	3747.	0.755	0.1281	0.0481	2.6611	0.7600	5.4069
1304.	796.	4076.	0.790	0.1274	0.0483	2.6354	0.7506	5.1206
1360.	909.	4467.	0.824	0.1284	0.0487	2.6378	0.7541	4.9142
1400.	1001.	4735.	0.848	0.1284	0.0491	2.6137	0.7474	4.7303
1450.	1110.	5085.	0.878	0.1285	0.0490	2.6217	0.7501	4.5811
1490.	1115.	5064.	0.878	0.1280	0.0493	2.5992	0.7421	4.5417
1498.	1258.	5558.	0.907	0.1316	0.0504	2.6121	0.7563	4.4181
1549.	1409.	5929.	0.938	0.1313	0.0511	2.5726	0.7440	4.2079

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	607.	3418.	815.	1197.	0.1268	0.0477	2.660	0.756	5.632
0.750	676.	3665.	843.	1238.	0.1271	0.0479	2.651	0.754	5.425
0.775	749.	3927.	871.	1279.	0.1275	0.0482	2.648	0.754	5.244
0.800	830.	4202.	899.	1321.	0.1281	0.0486	2.638	0.753	5.061
0.825	915.	4470.	927.	1362.	0.1281	0.0488	2.627	0.750	4.888
0.850	1002.	4737.	955.	1403.	0.1279	0.0488	2.619	0.747	4.729
0.875	1104.	5061.	983.	1444.	0.1289	0.0493	2.613	0.749	4.583
0.900	1215.	5390.	1011.	1486.	0.1298	0.0499	2.601	0.748	4.436
0.925	1339.	5749.	1039.	1527.	0.1310	0.0507	2.586	0.747	4.292

STATIC PROP PERFORMANCE

FSC 474121PROP RUN NO 406 12SFPI66

BETA=1.00 AF=117.5 DIA=13.000 NBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9510

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	KFM	RTH/HP
906.	327.	2271.	0.543	0.1470	0.0592	2.4834	0.7599	6.9450
956.	386.	2545.	0.573	0.1480	0.0595	2.4877	0.7637	6.5933
1004.	442.	2818.	0.602	0.1486	0.0597	2.4870	0.7650	6.2762
1050.	515.	3113.	0.629	0.1501	0.0599	2.5050	0.7744	6.0447
1101.	601.	3449.	0.660	0.1512	0.0606	2.4937	0.7739	5.7388
1150.	696.	3828.	0.689	0.1538	0.0616	2.4964	0.7814	5.5000
1200.	783.	4122.	0.719	0.1521	0.0610	2.4933	0.7761	5.2644
1253.	917.	4585.	0.751	0.1552	0.0628	2.4727	0.7774	5.0000
1302.	1036.	4942.	0.780	0.1549	0.0632	2.4513	0.7700	4.7703
1349.	1158.	5384.	0.808	0.1572	0.0635	2.4754	0.7833	4.6494
1404.	1318.	5815.	0.841	0.1568	0.0641	2.4448	0.7725	4.4120
1450.	1488.	6351.	0.869	0.1605	0.0657	2.4426	0.7810	4.2681
1502.	1649.	6814.	0.900	0.1605	0.0655	2.4496	0.7832	4.1322
1552.	1840.	7277.	0.930	0.1606	0.0663	2.4225	0.7747	3.9549

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	814.	4229.	824.	1210.	0.1535	0.0619	2.480	0.775	5.193
0.750	909.	4553.	852.	1252.	0.1544	0.0624	2.473	0.776	5.006
0.775	1012.	4888.	880.	1294.	0.1553	0.0629	2.467	0.776	4.832
0.800	1122.	5240.	909.	1335.	0.1562	0.0635	2.460	0.776	4.669
0.825	1243.	5609.	937.	1377.	0.1572	0.0641	2.453	0.776	4.514
0.850	1372.	6013.	966.	1419.	0.1588	0.0647	2.454	0.780	4.382
0.875	1509.	6407.	994.	1460.	0.1597	0.0653	2.447	0.780	4.245
0.900	1655.	6806.	1022.	1502.	0.1603	0.0658	2.438	0.779	4.112
0.925	1809.	7210.	1051.	1544.	0.1608	0.0662	2.429	0.777	3.986

STATIC PROP PERFORMANCE

HSD 47X121 PROP RUJ RD 409 12SEPT66

BETA=11.9 AF=117.5 CIA=13.000 NBL=4 TEMPC= 25.5 TEMPR= 537.59 SIGMA=0.9500

***** RAW DATA POINTS *****

RPM	HP	TH	INACH	RCT	RCP	RCT/CP	RFM	RTH/HP
900.	404.	2674.	0.539	0.1755	0.0746	2.3511	0.7859	6.6188
947.	469.	2968.	0.567	0.1759	0.0744	2.3653	0.7916	6.3284
1004.	562.	3305.	0.601	0.1743	0.0748	2.3303	0.7763	5.8808
1054.	657.	3663.	0.631	0.1752	0.0756	2.3193	0.7748	5.5753
1103.	762.	4063.	0.660	0.1775	0.0765	2.3212	0.7804	5.3320
1152.	855.	4379.	0.690	0.1754	0.0753	2.3287	0.7782	5.1216
1200.	991.	4800.	0.718	0.1772	0.0772	2.2940	0.7705	4.8436
1248.	1124.	5295.	0.747	0.1807	0.0779	2.3204	0.7871	4.7109
1303.	1283.	5705.	0.780	0.1786	0.0781	2.2867	0.7712	4.4466
1350.	1458.	6253.	0.808	0.1824	0.0798	2.2851	0.7787	4.2888
1402.	1655.	6747.	0.839	0.1824	0.0809	2.2558	0.7689	4.0767
1453.	1865.	7347.	0.870	0.1850	0.0819	2.2591	0.7753	3.9394
1503.	2116.	8042.	0.900	0.1892	0.0839	2.2545	0.7826	3.8006
1550.	2330.	8526.	0.928	0.1886	0.0843	2.2385	0.7758	3.6592

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1014.	4902.	824.	1211.	0.1776	0.0769	2.311	0.777	4.835
0.750	1134.	5292.	853.	1253.	0.1792	0.0777	2.307	0.779	4.666
0.775	1266.	5686.	881.	1295.	0.1803	0.0786	2.295	0.778	4.492
0.800	1405.	6084.	910.	1336.	0.1811	0.0793	2.284	0.776	4.331
0.825	1557.	6493.	938.	1378.	0.1817	0.0801	2.268	0.771	4.170
0.850	1731.	6992.	966.	1420.	0.1843	0.0814	2.263	0.775	4.039
0.875	1913.	7477.	995.	1462.	0.1860	0.0825	2.255	0.776	3.909
0.900	2106.	7978.	1023.	1503.	0.1876	0.0834	2.248	0.777	3.789
0.925	2310.	8495.	1052.	1545.	0.1891	0.0843	2.242	0.778	3.677

STATIC PRCP PERFORMANCE

47X121 PRCP RUN NO 433 610166

BETA=12.2 AT=117.5 CIA=13.000 NHL=4 TEMPC= 12.0 TEMPR= 513.29 SIGMA=0.9970

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
905.	430.	2748.	0.555	0.1779	0.0779	2.2852	0.7692	6.3907
949.	492.	2989.	0.581	0.1764	0.0775	2.2755	0.7626	6.0752
998.	570.	3330.	0.611	0.1777	0.0772	2.3012	0.7741	5.8421
1049.	659.	3631.	0.643	0.1754	0.0769	2.2812	0.7623	5.5099
1102.	789.	4092.	0.675	0.1791	0.0794	2.2557	0.7618	5.1863
1152.	893.	4493.	0.706	0.1799	0.0791	2.2749	0.7701	5.0033
1201.	1041.	4935.	0.736	0.1818	0.0809	2.2471	0.7647	4.7406
1248.	1171.	5396.	0.765	0.1841	0.0811	2.2697	0.7772	4.6080
1300.	1344.	5898.	0.796	0.1855	0.0824	2.2516	0.7738	4.3884
1347.	1515.	6379.	0.825	0.1869	0.0835	2.2385	0.7722	4.2106
1400.	1713.	6881.	0.858	0.1866	0.0841	2.2196	0.7651	4.0169
1449.	1927.	7503.	0.888	0.1899	0.0853	2.2267	0.7744	3.8936
1497.	2220.	8265.	0.917	0.1960	0.0891	2.1997	0.7772	3.7230
1551.	2571.	9017.	0.950	0.1992	0.0928	2.1469	0.7647	3.5072

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 POI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	988.	4784.	806.	1183.	0.1815	0.0803	2.261	0.769	4.841
0.750	1101.	5156.	833.	1224.	0.1829	0.0808	2.263	0.772	4.683
0.775	1230.	5561.	861.	1265.	0.1847	0.0818	2.258	0.774	4.522
0.800	1363.	5945.	889.	1306.	0.1853	0.0824	2.248	0.772	4.362
0.825	1509.	6362.	917.	1347.	0.1865	0.0832	2.241	0.772	4.216
0.850	1664.	6776.	944.	1387.	0.1871	0.0839	2.230	0.770	4.072
0.875	1839.	7263.	972.	1428.	0.1892	0.0850	2.226	0.773	3.949
0.900	2053.	7802.	1000.	1469.	0.1922	0.0872	2.203	0.771	3.800
0.925	2295.	8393.	1028.	1510.	0.1957	0.0898	2.179	0.769	3.657
0.950	2566.	9036.	1055.	1551.	0.1997	0.0927	2.155	0.769	3.521

STATIC PRCP PERFORMANCE

FSD 47X121 PROP RUN NO 410 13SEPT66

BETA=14.0 AF=117.5 DIA=13.000 NBL=4 TEMPC= 20.0 TEMPR= 527.69 SIGMA=0.9670

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
905.	517.	3113.	0.547	0.2020	0.0939	2.1507	0.7714	6.0213
950.	608.	3454.	0.574	0.2034	0.0955	2.1300	0.7666	5.6809
1000.	703.	3826.	0.604	0.2033	0.0947	2.1480	0.7730	5.4424
1050.	825.	4261.	0.634	0.2054	0.0960	2.1404	0.7741	5.1648
1099.	950.	4654.	0.664	0.2048	0.0964	2.1249	0.7674	4.8989
1150.	1092.	5129.	0.695	0.2061	0.0967	2.1318	0.7724	4.6969
1202.	1264.	5667.	0.726	0.2085	0.0980	2.1269	0.7750	4.4834
1249.	1430.	6143.	0.755	0.2093	0.0988	2.1176	0.7731	4.2958
1302.	1655.	6722.	0.787	0.2108	0.1010	2.0872	0.7646	4.0616
1350.	1863.	7301.	0.816	0.2129	0.1020	2.0881	0.7689	3.9189
1402.	2112.	7942.	0.847	0.2147	0.1032	2.0808	0.7695	3.7604
1450.	2411.	8645.	0.876	0.2185	0.1065	2.0520	0.7655	3.5856
1508.	2852.	9576.	0.911	0.2238	0.1120	1.9984	0.7544	3.3576
1551.	3213.	10341.	0.937	0.2285	0.1160	1.9702	0.7515	3.2185

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1255.	5628.	817.	1200.	0.2078	0.0978	2.124	0.772	4.484
0.750	1405.	6063.	845.	1241.	0.2092	0.0989	2.115	0.772	4.317
0.775	1569.	6514.	873.	1283.	0.2105	0.1002	2.101	0.769	4.151
0.800	1741.	6976.	901.	1324.	0.2115	0.1010	2.094	0.768	4.007
0.825	1927.	7475.	929.	1365.	0.2131	0.1019	2.090	0.770	3.879
0.850	2145.	8018.	958.	1407.	0.2153	0.1037	2.076	0.769	3.739
0.875	2404.	8618.	986.	1448.	0.2184	0.1066	2.049	0.764	3.585
0.900	2701.	9271.	1014.	1489.	0.2221	0.1101	2.018	0.759	3.432
0.925	3037.	9975.	1042.	1531.	0.2262	0.1140	1.985	0.753	3.285

STATI RCP PERFORMANCE

M-SO 47X121 PROP RUN NO 411 13SEPT66

BETA=16.0 AF=117.5 DIA=13.000 NBL=4 TEMPC= 21.5 TEMPR= 530.39 SIGMA=0.9620

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
903.	627.	3472.	0.542	0.2278	0.1158	1.9670	0.7492	5.5375
957.	757.	3929.	0.577	0.2280	0.1163	1.9604	0.7470	5.1902
1003.	880.	4304.	0.604	0.2274	0.1174	1.9361	0.7368	4.8909
1055.	1042.	4886.	0.636	0.2333	0.1195	1.9525	0.7526	4.6891
1097.	1170.	5239.	0.661	0.2314	0.1193	1.9387	0.7442	4.4778
1149.	1351.	5780.	0.692	0.2327	0.1199	1.9402	0.7469	4.2783
1204.	1597.	6486.	0.726	0.2378	0.1232	1.9299	0.7510	4.0614
1252.	1798.	7048.	0.755	0.2390	0.1234	1.9370	0.7556	3.9199
1298.	2018.	7588.	0.782	0.2394	0.1243	1.9263	0.7521	3.7602
1352.	2325.	8358.	0.815	0.2430	0.1267	1.9182	0.7546	3.5948
1396.	2655.	9148.	0.841	0.2495	0.1314	1.8984	0.7567	3.4456
1450.	3032.	9875.	0.874	0.2496	0.1339	1.8639	0.7431	3.2569
1505.	3540.	10873.	0.907	0.2551	0.1398	1.8244	0.7354	3.0715
1553.	4058.	11726.	0.936	0.2584	0.1459	1.7711	0.7185	2.8896

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PO

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1580.	6431.	819.	1203.	0.2362	0.1222	1.933	0.750	4.071
0.750	1765.	6944.	847.	1244.	0.2383	0.1233	1.932	0.753	3.934
0.775	1963.	7463.	875.	1286.	0.2399	0.1243	1.929	0.754	3.801
0.800	2188.	8036.	904.	1327.	0.2424	0.1260	1.924	0.756	3.673
0.825	2444.	8642.	932.	1369.	0.2451	0.1283	1.910	0.755	3.536
0.850	2732.	9294.	960.	1410.	0.2483	0.1311	1.894	0.753	3.402
0.875	3066.	9968.	988.	1452.	0.2514	0.1349	1.863	0.745	3.251
0.900	3440.	10667.	1016.	1493.	0.2542	0.1391	1.828	0.735	3.101
0.925	3853.	11391.	1045.	1535.	0.2570	0.1435	1.791	0.724	2.956

STATIC PROP PERFORMANCE

47X121 PROP RUN NO 434 60CI66

BEI=16.0 AF=117.5 CIA=13.000 VBL=4 TEMPC= 12.0 TEMPR= 513.29 SIGMA=0.9970

***** RAW DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
903.	623.	3435.	0.553	0.2236	0.1139	1.9622	0.7404	5.5056
949.	709.	3711.	0.581	0.2190	0.1117	1.9605	0.7321	5.2341
1006.	848.	4193.	0.616	0.2202	0.1122	1.9632	0.7352	4.9446
1053.	996.	4694.	0.645	0.2250	0.1149	1.9587	0.7414	4.7129
1097.	1125.	5075.	0.672	0.2241	0.1148	1.9531	0.7379	4.5111
1148.	1320.	5677.	0.703	0.2289	0.1175	1.9486	0.7440	4.3008
1199.	1516.	6229.	0.735	0.2303	0.1184	1.9444	0.7446	4.1088
1258.	1732.	6961.	0.771	0.2338	0.1205	1.9395	0.7483	3.9063
1300.	1990.	7462.	0.796	0.2347	0.1220	1.9239	0.7438	3.7497
1350.	2261.	8144.	0.827	0.2375	0.1238	1.9192	0.7464	3.6019
1399.	2610.	8907.	0.857	0.2419	0.1284	1.8843	0.7395	3.4126
1454.	3034.	9829.	0.891	0.2471	0.1329	1.8591	0.7375	3.2396
1506.	3568.	10873.	0.923	0.2548	0.1407	1.8113	0.7296	3.0474
1549.	3917.	11334.	0.949	0.2511	0.1419	1.7690	0.7073	2.8935

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1453.	6054.	806.	1183.	0.2298	0.1181	1.946	0.744	4.167
0.750	1628.	6541.	833.	1224.	0.2320	0.1195	1.941	0.746	4.018
0.775	1807.	7021.	861.	1265.	0.2332	0.1202	1.939	0.747	3.884
0.800	2015.	7543.	889.	1306.	0.2351	0.1219	1.929	0.746	3.743
0.825	2256.	8115.	917.	1347.	0.2378	0.1244	1.912	0.744	3.597
0.850	2515.	8709.	944.	1387.	0.2405	0.1268	1.896	0.742	3.462
0.875	2839.	9428.	972.	1428.	0.2457	0.1312	1.872	0.741	3.321
0.900	3180.	10093.	1000.	1469.	0.2486	0.1351	1.840	0.732	3.174
0.925	3554.	10770.	1028.	1510.	0.2511	0.1391	1.806	0.722	3.030

STATIC PROP PERFORMANCE

FSD 47X121 PROP RUN NO 412 13SEPT66

BETA=18.0 AF=117.5 CIA=13.000 ABL=4 TEMPC= 21.5 TEMPR= 530.39 SIGMA=0.9620

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
903.	765.	3846.	0.544	0.2507	0.1399	1.7918	0.7159	5.0275
951.	952.	4324.	0.573	0.2541	0.1412	1.7993	0.7238	4.7938
1007.	1043.	4761.	0.603	0.2530	0.1405	1.8016	0.7232	4.5647
1048.	1201.	5218.	0.632	0.2525	0.1405	1.7971	0.7206	4.3447
1100.	1408.	5842.	0.663	0.2566	0.1425	1.8013	0.7282	4.1491
1155.	1660.	6486.	0.696	0.2584	0.1451	1.7811	0.7225	3.9072
1199.	1806.	7089.	0.723	0.2621	0.1406	1.8637	0.7614	3.9383
1252.	2125.	7692.	0.755	0.2608	0.1458	1.7887	0.7289	3.6198
1301.	2434.	8399.	0.784	0.2637	0.1488	1.7719	0.7261	3.4507
1348.	2777.	9189.	0.812	0.2638	0.1527	1.7605	0.7283	3.3090
1399.	3203.	9990.	0.843	0.2713	0.1575	1.7222	0.7158	3.1190
1450.	3721.	10977.	0.874	0.2775	0.1644	1.6883	0.7097	2.9500
1487.	4187.	11809.	0.896	0.2839	0.1712	1.6580	0.7049	2.8251

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1849.	7077.	819.	1203.	0.2599	0.1430	1.817	0.739	3.827
0.750	2076.	7628.	847.	1244.	0.2618	0.1451	1.805	0.737	3.675
0.775	2325.	8204.	875.	1286.	0.2637	0.1472	1.791	0.734	3.529
0.800	2623.	8810.	904.	1327.	0.2658	0.1510	1.760	0.724	3.359
0.825	2940.	9490.	932.	1369.	0.2692	0.1543	1.744	0.722	3.228
0.850	3323.	10238.	960.	1410.	0.2736	0.1595	1.715	0.716	3.081
0.875	3758.	11047.	988.	1452.	0.2786	0.1654	1.684	0.709	2.940

STATIC PROP PLRFORMANCE

PSD 47X121 PROP RUN NO 413 13SEPT66

BETA=21.0 AF=117.5 DIA=13.000 NBL=4 TEMPC= 21.0 TEMPR= 529.49 SIGMA=0.9630

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
901.	984.	4071.	0.543	0.2665	0.1628	1.6376	0.6747	4.6052
952.	1053.	4590.	0.574	0.2692	0.1644	1.6378	0.6781	4.3590
1002.	1251.	5130.	0.604	0.2716	0.1675	1.6217	0.6744	4.1007
1048.	1457.	5711.	0.632	0.2764	0.1705	1.6213	0.6802	3.9197
1099.	1675.	6251.	0.663	0.2751	0.1699	1.6187	0.6775	3.7319
1149.	1913.	6864.	0.693	0.2763	0.1698	1.6271	0.6826	3.5881
1200.	2207.	7539.	0.724	0.2783	0.1720	1.6178	0.6810	3.4159
1255.	2614.	8494.	0.757	0.2866	0.1781	1.6095	0.6876	3.2494
1301.	2988.	9180.	0.785	0.2883	0.1827	1.5776	0.6759	3.0723
1357.	3424.	10031.	0.816	0.2917	0.1866	1.5633	0.6737	2.9296
1400.	3955.	11028.	0.844	0.2990	0.1941	1.5407	0.6724	2.7884
1435.	4269.	11485.	0.866	0.2964	0.1945	1.5237	0.6620	2.6903

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PGI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2233.	7624.	818.	1202.	0.2805	0.1732	1.620	0.685	3.414
0.750	2520.	8248.	846.	1243.	0.2836	0.1765	1.606	0.683	3.273
0.775	2841.	8912.	875.	1285.	0.2870	0.1804	1.591	0.680	3.137
0.800	3210.	9646.	903.	1326.	0.2915	0.1853	1.573	0.678	3.005
0.825	3597.	10357.	931.	1368.	0.2943	0.1893	1.554	0.673	2.879
0.850	4012.	11080.	959.	1409.	0.2966	0.1931	1.536	0.667	2.761

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[illegible]

SHILLON, N. C.

DDA	MD	T4	TACH	PCT	RC2	PCT/CP	RFM	RTH/HF
302.	102.	703.	0.554	0.0521	0.0189	2.7585	0.5027	7.7745
351.	121.	923.	0.596	0.0430	0.0199	2.5840	0.4562	6.8943
1005.	133.	922.	0.513	0.0435	0.0184	2.6310	0.4625	6.6331
1004.	156.	1001.	0.545	0.0434	0.0183	2.6541	0.4661	6.4167
1037.	175.	1051.	0.576	0.0434	0.0179	2.6003	0.4471	6.0057
1156.	214.	1150.	0.712	0.0455	0.0197	2.4923	0.4289	5.4626
1200.	240.	1230.	0.739	0.0457	0.0187	2.4450	0.4172	5.1625
1252.	268.	1309.	0.771	0.0444	0.0184	2.4117	0.4053	4.8806
1301.	302.	1437.	0.801	0.0451	0.0185	2.4352	0.4128	4.7426
1352.	330.	1697.	0.933	0.0432	0.0185	2.2406	0.3984	4.3864
1400.	392.	1606.	0.962	0.0435	0.0198	2.3170	0.3858	4.1932
1454.	412.	1655.	0.966	0.0416	0.0183	2.2721	0.3698	3.9593
1501.	477.	1756.	0.924	0.0414	0.0190	2.1794	0.3536	3.6771
1547.	537.	1903.	0.953	0.0420	0.0195	2.1523	0.3522	3.5251

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***** FITTED CURVE DATA FOR CONSTANT MACH NUMBERS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PT
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WACH	HD	TH	TIPS	3PM	CT	CP	CT/CP	F4	TH/HP
0.725	224.	1191.	801.	1177.	0.0457	0.0185	2.468	0.421	5.312
0.750	249.	1271.	829.	1213.	0.0455	0.0186	2.448	0.417	5.094
0.775	273.	1335.	857.	1258.	0.0448	0.0184	2.429	0.410	4.891
0.800	301.	1407.	884.	1290.	0.0443	0.0185	2.392	0.403	4.679
0.825	331.	1485.	912.	1340.	0.0440	0.0186	2.370	0.397	4.484
0.850	362.	1554.	939.	1380.	0.0434	0.0185	2.343	0.390	4.302
0.875	394.	1604.	967.	1421.	0.0423	0.0185	2.239	0.376	4.082
0.900	434.	1685.	995.	1451.	0.0419	0.0187	2.240	0.366	3.884
0.925	479.	1772.	1022.	1502.	0.0413	0.0190	2.194	0.359	3.702
0.950	529.	1870.	1050.	1542.	0.0413	0.0194	2.153	0.351	3.536

STATIC PROP PERFORMANCE

XC-142A BLADE 47X138 ROT 649 WALLS CALCULATED

RETA= 2.0 AF= 90.0 DIA=13.000 INLE=4 TEMPC= 2.8 TEMPR= 496.73 SIGMA=..0110

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
902.	116.	1068.	0.562	0.0698	0.0213	3.2777	0.6909	9.2069
953.	136.	1147.	0.595	0.0668	0.0210	3.1789	0.6558	8.4338
999.	156.	1246.	0.622	0.0664	0.0211	3.1492	0.6474	7.9872
1047.	179.	1365.	0.652	0.0662	0.0210	3.1512	0.6469	7.6257
1104.	214.	1464.	0.688	0.0638	0.0214	2.9809	0.6010	6.8411
1149.	238.	1583.	0.716	0.0637	0.0211	3.0163	0.6076	6.6513
1200.	267.	1711.	0.747	0.0632	0.0208	3.0350	0.6086	6.4082
1249.	300.	1820.	0.778	0.0620	0.0207	2.9906	0.5943	6.0667
1293.	351.	1978.	0.809	0.0623	0.0216	2.8892	0.5755	5.6353
1350.	394.	2117.	0.841	0.0617	0.0216	2.8629	0.5677	5.3731
1399.	445.	2315.	0.871	0.0629	0.0219	2.8725	0.5747	5.2022
1450.	482.	2334.	0.903	0.0590	0.0213	2.7712	0.5372	4.8423
1450.	493.	2374.	0.902	0.0600	0.0218	2.7558	0.5387	4.8154
1507.	569.	2552.	0.939	0.0597	0.0224	2.6676	0.5202	4.4851
1551.	631.	2671.	0.966	0.0590	0.0228	2.5912	0.5023	4.2330

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 P

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	245.	1612.	792.	1164.	0.0632	0.0209	3.024	0.607	6.583
0.750	271.	1716.	820.	1204.	0.0629	0.0209	3.015	0.603	6.342
0.775	300.	1822.	847.	1244.	0.0625	0.0210	2.983	0.595	6.074
0.800	333.	1926.	874.	1265.	0.0620	0.0212	2.930	0.582	5.778
0.825	373.	2063.	902.	1325.	0.0625	0.0216	2.894	0.577	5.536
0.850	411.	2185.	929.	1365.	0.0623	0.0218	2.862	0.570	5.313
0.875	444.	2271.	955.	1405.	0.0612	0.0215	2.839	0.560	5.120
0.900	487.	2375.	984.	1445.	0.0604	0.0217	2.780	0.545	4.873
0.925	535.	2477.	1011.	1465.	0.0597	0.0220	2.712	0.529	4.626
0.950	592.	2592.	1038.	1525.	0.0592	0.0225	2.636	0.512	4.378

STATIC PRESSURE RANGE

VC-122A BLADE 67X139 MM (2.63 INCHES) WALLS RELOCATED

REF = 6.0 MPa (870 PSI) DYNAMIC PRESSURE = 1.7 REMOVED = 40% IN SIGMA = 1.0120

***** RAW DATA POINTS *****

200	HP	FM	FMACH	PCT	RCP	RCT/CP	RFM	RTH/HP
203.	150.	1304.	0.563	0.0950	0.0274	3.0593	0.7208	9.6933
205.	171.	1443.	0.593	0.0950	0.0269	3.1640	0.7350	9.4386
1005.	202.	1561.	0.627	0.0921	0.0269	3.0501	0.6976	7.6897
1050.	225.	1739.	0.655	0.0939	0.0273	3.0667	0.7096	7.4000
1102.	271.	2359.	0.689	0.0913	0.0273	2.9920	0.6786	6.8561
1167.	299.	2996.	0.716	0.0806	0.0266	3.0322	0.5871	6.6980
1199.	356.	2212.	0.748	0.0820	0.0279	2.9392	0.6715	5.2163
1252.	390.	2273.	0.781	0.0771	0.0269	2.9769	0.6380	5.8292
1276.	416.	2391.	0.796	0.0791	0.0270	2.9946	0.6453	5.7476
1290.	443.	2510.	0.911	0.0731	0.0272	2.9049	0.6518	5.6659
1326.	462.	2569.	0.927	0.0777	0.0257	2.9101	0.6471	5.5606
1356.	503.	2693.	0.846	0.0730	0.0272	2.3706	0.6397	5.3638
1399.	540.	2385.	0.872	0.0795	0.0276	2.8426	0.6354	5.1513
1449.	617.	3034.	0.904	0.0759	0.0274	2.8102	0.6219	4.9173
1490.	702.	3300.	0.937	0.0778	0.0280	2.7849	0.6201	4.7009
1547.	790.	3479.	0.965	0.0772	0.0284	2.7225	0.6038	4.4590

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	F4	TH/HP
0.725	317.	2056.	791.	1162.	0.0810	0.0272	2.974	0.675	5.487
0.750	350.	2173.	818.	1202.	0.0800	0.0272	2.943	0.664	6.204
0.775	386.	2298.	845.	1242.	0.0792	0.0271	2.918	0.655	5.354
0.800	421.	2608.	973.	1292.	0.0779	0.0269	2.897	0.645	5.725
0.825	463.	2573.	900.	1322.	0.0782	0.0270	2.901	0.648	5.560
0.850	510.	2720.	927.	1362.	0.0779	0.0272	2.869	0.639	5.337
0.875	556.	2379.	954.	1412.	0.0778	0.0273	2.848	0.634	5.147
0.900	615.	3042.	982.	1442.	0.0777	0.0274	2.817	0.627	4.949
0.925	676.	3207.	1009.	1492.	0.0775	0.0279	2.784	0.619	4.759
0.950	737.	3375.	1036.	1522.	0.0774	0.0281	2.751	0.611	4.578

STATIC PRESSURE RANGE

VC-102A BLANK 478134 RPM 1.0 TH 1.000000

DATA: 5.0 MS=0.000 DUE=0.000 IN=0.000 TH=0.000 HP=0.000 SIGMA=1.0000

***** DATA POINTS *****

RPM	HP	TH	FMACH	RCT	RCP	RCT/CP	PEM	RTH/HP
900.	197.	1565.	0.562	0.1024	0.0354	2.3237	0.7223	7.7492
953.	225.	1744.	0.506	0.1021	0.0352	2.9025	0.7400	7.7168
1002.	247.	1957.	0.426	0.1013	0.0357	2.9060	0.7474	7.3483
1054.	308.	2161.	0.659	0.1034	0.0354	2.9187	0.7489	7.0162
1100.	353.	2349.	0.687	0.1032	0.0361	2.8407	0.7282	6.5432
1153.	405.	2557.	0.720	0.1022	0.0356	2.8731	0.7331	6.3136
1201.	449.	2714.	0.750	0.1001	0.0349	2.8573	0.7238	6.0490
1250.	519.	3003.	0.791	0.1021	0.0357	2.9501	0.7295	5.7973
1298.	577.	3211.	0.911	0.1013	0.0355	2.9509	0.7241	5.5650
1354.	657.	3439.	0.946	0.1011	0.0354	2.8379	0.7203	5.3105
1400.	731.	3707.	0.975	0.1005	0.0359	2.8021	0.7089	5.0711
1452.	834.	4104.	0.707	0.1034	0.0357	2.8193	0.7236	4.9197
1511.	942.	4341.	0.944	0.1015	0.0363	2.7609	0.7020	4.6295
1550.	1053.	4513.	0.968	0.1022	0.0331	2.5829	0.6843	4.3856

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	412.	2576.	790.	1160.	0.1017	0.0355	2.865	0.729	5.256
0.750	455.	2749.	817.	1200.	0.1014	0.0355	2.859	0.726	5.033
0.775	501.	2929.	844.	1240.	0.1012	0.0353	2.864	0.727	5.849
0.800	552.	3126.	872.	1290.	0.1013	0.0355	2.856	0.726	5.652
0.825	608.	3313.	899.	1320.	0.1010	0.0355	2.840	0.720	5.450
0.850	659.	3531.	926.	1360.	0.1014	0.0358	2.835	0.720	5.280
0.875	732.	3751.	953.	1400.	0.1017	0.0353	2.874	0.721	5.127
0.900	805.	3976.	980.	1440.	0.1013	0.0363	2.903	0.715	4.937
0.925	887.	4205.	1009.	1480.	0.1020	0.0368	2.771	0.706	4.742
0.950	974.	4440.	1035.	1520.	0.1021	0.0374	2.731	0.696	4.550

STATIC DRUG PERFORMANCE

VC-142A BLADE 67X130 2017 450 MILLS RELOCATED

DATA= 1.0 AGE= 00.0 DATA 13.000 THICK= 2.0 TEMPR= 455.20 SIGMA=1.0060

***** DATA POINTS *****

RPM	HP	TH	TACH	RCT	RCP	QCT/CP	RFM	RTH/HP
911.	263.	1343.	0.568	0.1248	0.0468	2.6632	0.7506	7.4068
955.	303.	2177.	0.596	0.1269	0.0453	2.7081	0.7627	7.1848
1001.	351.	2405.	0.524	0.1276	0.0471	2.7081	0.7720	6.8547
1048.	397.	2624.	0.554	0.1270	0.0467	2.7202	0.7735	6.5764
1104.	471.	2383.	0.500	0.1253	0.0469	2.6719	0.7546	6.1210
1149.	527.	3101.	0.717	0.1248	0.0453	2.6684	0.7524	5.8943
1200.	609.	3479.	0.748	0.1284	0.0475	2.7056	0.7737	5.7126
1252.	677.	3608.	0.781	0.1254	0.0465	2.6392	0.7627	5.4623
1303.	783.	4076.	0.813	0.1275	0.0477	2.6771	0.7631	5.2056
1352.	792.	4376.	0.843	0.1272	0.0475	2.6766	0.7617	5.0161
1406.	780.	4712.	0.876	0.1270	0.0477	2.6544	0.7578	4.8082
1455.	1114.	5103.	0.907	0.1283	0.0497	2.6337	0.7527	4.5862
1498.	1260.	5567.	0.934	0.1310	0.0505	2.6122	0.7569	4.4183
1542.	1324.	5765.	0.966	0.1273	0.0501	2.5382	0.7226	4.1517

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 5 PC

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	545.	3201.	701.	1152.	0.1259	0.0463	2.688	0.761	5.359
0.750	606.	3443.	819.	1203.	0.1265	0.0469	2.696	0.765	5.579
0.775	671.	3686.	845.	1243.	0.1259	0.0471	2.695	0.766	5.495
0.800	740.	3936.	873.	1283.	0.1271	0.0472	2.692	0.766	5.317
0.825	812.	4172.	900.	1323.	0.1267	0.0472	2.682	0.762	5.138
0.850	881.	4431.	928.	1363.	0.1268	0.0474	2.675	0.760	4.973
0.875	985.	4730.	955.	1403.	0.1277	0.0481	2.658	0.759	4.800
0.900	1037.	5064.	982.	1443.	0.1287	0.0487	2.644	0.757	4.542
0.925	1105.	5337.	1010.	1483.	0.1288	0.0483	2.611	0.748	4.450
0.950	1314.	5622.	1037.	1523.	0.1283	0.0501	2.573	0.737	4.280

PLATE 47. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839.

10.0 VF = 90.0 V A = 1.000 VPL = 4 FEMOC = 0.3 FEMOC = 492.23 SIGMA = 1.0130

SECRET

RPM	WD	TH	TH/ACH	RCT	RCP	RCT/CP	PEM	RTH/HP
920	340	2330	0.558	0.1502	0.0528	2.3925	0.7400	6.6762
951	360	2499	0.595	0.1452	0.0602	2.4005	0.7325	6.3959
991	440	2923	0.625	0.1503	0.0521	2.4197	0.7487	6.1370
1053	532	3090	0.659	0.1475	0.0614	2.4061	0.7378	5.7895
1111	610	3376	0.693	0.1493	0.0617	2.4028	0.7384	5.5344
1151	693	3592	0.720	0.1431	0.0612	2.4202	0.7433	5.3275
1192	777	4047	0.749	0.1506	0.0619	2.4129	0.7472	5.1029
1242	866	4373	0.781	0.1430	0.0624	2.4059	0.7411	4.8806
1292	1022	4917	0.811	0.1524	0.0532	2.4109	0.7511	4.7133
1353	1169	5330	0.847	0.1553	0.0550	2.4023	0.7578	4.4254
1403	1363	5785	0.891	0.1549	0.0647	2.3954	0.7523	4.1075
1447	1431	6140	0.905	0.1554	0.0559	2.3754	0.7426	4.1594
1495	1736	5732	0.942	0.1573	0.0684	2.3076	0.7314	3.8924
1547	1925	5990	0.958	0.1552	0.0690	2.2507	0.7076	3.6862

***** CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6 PD

λ_{cm}	HP	TH	TIPS	QPM	CT	CP	CT/CP	FM	TH/HP
0.725	712.	3755.	790.	1159.	0.1486	0.0616	2.413	0.742	5.277
0.730	709.	4024.	816.	1100.	0.1483	0.0616	2.415	0.744	5.105
0.735	707.	4332.	843.	1230.	0.1500	0.0622	2.412	0.746	4.933
0.740	691.	4679.	870.	1279.	0.1520	0.0632	2.407	0.749	4.770
0.745	1085.	5017.	898.	1310.	0.1537	0.0637	2.407	0.752	4.626
0.750	1164.	5377.	925.	1350.	0.1543	0.0641	2.415	0.758	4.504
0.755	1322.	5723.	952.	1300.	0.1550	0.0651	2.306	0.755	4.341
0.760	1458.	6096.	970.	1433.	0.1565	0.0659	2.374	0.750	4.181
0.765	1610.	6460.	1006.	1479.	0.1566	0.0671	2.335	0.737	4.001
0.770	1775.	6770.	1036.	1513.	0.1543	0.0632	2.303	0.722	3.820

STATIC DATA PERFORMANCE

AC-119A BLADE 67X17.9 IN 35.6 GALLS NOT COATED

DATA=12.3 AF=30.0 VLA=3.000 PULSE REMOC= 0.3 REMOC= 400.01 SIGMA=1.0130

***** RAW DATA POINTS *****

RPM	HP	TH	T/MACH	RCT	RCP	RCT/CP	REM	RTM/HP
302.	476.	2535.	0.566	0.1630	0.0736	2.1712	0.6057	5.9585
350.	516.	2362.	0.501	0.1708	0.0730	2.1624	0.7132	5.7071
4010.	602.	2263.	0.532	0.1703	0.0737	2.1640	0.7126	5.4286
1061.	622.	3513.	0.558	0.1719	0.0304	2.1626	0.7196	5.2136
1027.	773.	3370.	0.546	0.1709	0.0783	2.1676	0.7151	5.0065
1023.	790.	6003.	0.637	0.1767	0.0304	2.1686	0.7375	5.0734
1149.	911.	6353.	0.719	0.1760	0.0311	2.1700	0.7264	4.7892
1123.	1060.	4708.	0.740	0.1777	0.0315	2.1914	0.7338	4.6135
1262.	1193.	5291.	0.783	0.1794	0.0323	2.1805	0.7370	4.4129
1200.	1377.	5334.	0.812	0.1835	0.0344	2.1739	0.7430	4.2367
1352.	1569.	6277.	0.946	0.1954	0.0354	2.1702	0.7457	4.0670
1412.	1726.	6310.	0.377	0.1359	0.0372	2.1433	0.7393	3.8733
1643.	2027.	7562.	0.307	0.1314	0.0397	2.1335	0.7449	3.7306
1619.	2297.	8035.	0.337	0.1303	0.0315	2.0775	0.7233	3.5139
1563.	2576.	8430.	0.369	0.1867	0.0333	2.0022	0.6904	3.2751

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	932.	4442.	792.	1159.	0.1759	0.0806	2.181	0.730	4.768
0.750	1043.	4806.	816.	1109.	0.1777	0.0315	2.180	0.733	4.508
0.775	1163.	5176.	843.	1239.	0.1763	0.0324	2.176	0.735	4.450
0.800	1266.	5560.	870.	1279.	0.1817	0.0333	2.190	0.741	4.319
0.825	1437.	6000.	868.	1319.	0.1834	0.0344	2.173	0.742	4.174
0.850	1528.	6466.	925.	1359.	0.1862	0.0359	2.168	0.747	4.046
0.875	1776.	6916.	952.	1399.	0.1873	0.0374	2.150	0.744	3.895
0.900	1967.	7381.	970.	1439.	0.1895	0.0380	2.130	0.760	3.752
0.925	2176.	7763.	1006.	1479.	0.1895	0.0306	2.031	0.727	3.584
0.950	2339.	8146.	1034.	1519.	0.1887	0.0022	2.046	0.709	3.414

STATIC STIFF PERFORMANCE

VC-142A THREE POINT BEND TEST RESULTS RELUCATED

TESTING SPEED = 0.000 IN/SEC. TEST TIME = 4.750 SEC. TEST FORCE = 462.23 SIGMA = 1.0140

*** DATA POINTS ***

QOM	HP	TH	TMACH	RCT	RCO	RCT/CP	RFM	RTH/HP
303.	536.	2342.	0.565	0.1322	0.0930	1.9408	0.6860	5.5019
351.	620.	2264.	0.535	0.11918	0.0971	1.9760	0.6906	5.2645
399.	724.	2449.	0.525	0.1143	0.0991	1.9917	0.6971	5.0262
1042.	941.	4083.	0.556	0.1972	0.0991	2.0100	0.7123	4.8549
1092.	962.	4418.	0.597	0.1948	0.0979	1.9902	0.7009	4.5925
1142.	1109.	4931.	0.710	0.1985	0.0985	2.0164	0.7169	4.4463
1193.	1264.	5345.	0.749	0.1979	0.0990	1.9994	0.7099	4.2286
1253.	1491.	5075.	0.784	0.2057	0.1021	2.0150	0.7292	4.0744
1308.	1671.	6529.	0.812	0.2060	0.1029	2.0017	0.7249	3.9072
1355.	1977.	7357.	0.848	0.2130	0.1070	1.9901	0.7329	3.7213
1401.	2266.	8067.	0.876	0.2184	0.1124	1.9428	0.7246	3.5135
1450.	2593.	8713.	0.907	0.2294	0.1145	1.9241	0.7208	3.3621
1500.	2884.	9152.	0.938	0.2162	0.1155	1.9703	0.6942	3.1602
1552.	3241.	9606.	0.971	0.2120	0.1168	1.9155	0.6670	2.9639

*** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *** (HP, 5 POINT 2ND ORDER. TH, 6 PT

MACH	HP	TH	TIPS	RCO	CT	CP	CT/CP	FM	TH/HP
0.725	1139.	4798.	789.	1159.	0.1973	0.0985	2.007	0.712	4.388
0.750	1270.	5403.	816.	1172.	0.1998	0.0993	2.013	0.718	4.255
0.775	1423.	5350.	843.	1239.	0.2025	0.1008	2.010	0.722	4.111
0.800	1588.	6320.	870.	1279.	0.2054	0.1023	2.009	0.727	3.980
0.825	1790.	6869.	898.	1319.	0.2093	0.1051	1.997	0.730	3.838
0.850	2021.	7460.	925.	1353.	0.2148	0.1085	1.979	0.732	3.691
0.875	2255.	7980.	952.	1393.	0.2169	0.1110	1.954	0.726	3.539
0.900	2514.	8531.	979.	1439.	0.2191	0.1137	1.927	0.720	3.393
0.925	2766.	8767.	1006.	1479.	0.2180	0.1152	1.992	0.705	3.242
0.950	3022.	9343.	1034.	1513.	0.2153	0.1162	1.853	0.686	3.091

STATIC DUCT PERFORMANCE

VC-142A BLADE 47X138 20IN 456 WALLS UNFLANGED

AREA=14.31 SF=30.3 DIA=13.000 NRE=4 TEMPC= 0.7 TEMPR= 402.05 SIGMA=1.0260

*** RAW DATA POINTS ***

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
923.	630.	3275.	0.561	0.2159	0.1198	1.8165	0.6735	5.1252
953.	770.	3733.	0.596	0.2195	0.1109	1.8235	0.6801	4.8481
973.	898.	4113.	0.525	0.2190	0.1193	1.8262	0.6821	4.6319
1057.	1050.	4920.	0.561	0.2198	0.1107	1.8356	0.6867	4.4000
1093.	1185.	5029.	0.587	0.2213	0.1205	1.8346	0.6897	4.2296
1153.	1408.	5634.	0.721	0.2252	0.1237	1.8209	0.6896	4.0014
1177.	1505.	6160.	0.748	0.2285	0.1252	1.8246	0.6960	3.9621
1269.	1945.	6923.	0.781	0.2325	0.1278	1.8191	0.6999	3.6901
1352.	2631.	8324.	0.845	0.2420	0.1352	1.7903	0.7029	3.3551
1383.	2673.	8265.	0.846	0.2400	0.1355	1.7704	0.6921	3.3153
1402.	2895.	9162.	0.876	0.2477	0.1410	1.7573	0.6980	3.1757
1450.	3252.	9766.	0.906	0.2459	0.1436	1.7186	0.6814	3.0031
1501.	3432.	10273.	0.938	0.2423	0.1447	1.6752	0.6591	2.8277
1530.	3950.	10546.	0.956	0.2394	0.1448	1.6541	0.6459	2.7392

*** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS *** (HP, 6 POINT 2ND ORDER. TH, 6 POI

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1427.	5707.	789.	1150.	0.2255	0.1232	1.831	0.694	4.000
0.750	1506.	6103.	917.	1200.	0.2287	0.1253	1.825	0.697	3.855
0.775	1607.	6703.	944.	1240.	0.2318	0.1277	1.815	0.697	3.709
0.800	2015.	7222.	971.	1290.	0.2344	0.1295	1.810	0.699	3.594
0.825	2266.	7305.	998.	1320.	0.2382	0.1328	1.794	0.699	3.444
0.850	2555.	8470.	925.	1360.	0.2435	0.1369	1.779	0.700	3.315
0.875	2844.	9029.	953.	1400.	0.2457	0.1397	1.754	0.693	3.174
0.900	3174.	9669.	980.	1440.	0.2475	0.1432	1.727	0.686	3.040
0.925	3477.	10102.	1007.	1480.	0.2453	0.1445	1.597	0.671	2.806
0.950	3772.	10451.	1034.	1520.	0.2406	0.1448	1.542	0.650	2.771

STATIC CURVE PERFORMANCE

VC-142A WAVE 670130 07N 87 AUS 30 LOCATED

ACTA=13.0 AFE=00.0 VMA=13.000 U3014 C000C= 2.0 F0002= 2.000 SIGMA=1.0215

***** RAW DATA POINTS *****

RPM	HP	TH	VMACH	ECT	QCP	ECT/CP	QFM	RTH/HP
335.	770.	3514.	0.564	0.2280	0.1390	1.6301	0.6212	4.5636
352.	809.	3714.	0.504	0.2297	0.1417	1.6205	0.6107	4.3128
371.	1052.	4444.	0.524	0.2357	0.1425	1.6532	0.6405	4.1846
1055.	1240.	4953.	0.558	0.2355	0.1432	1.6512	0.6408	3.9656
1101.	1434.	5423.	0.587	0.2378	0.1447	1.6432	0.6395	3.7817
1147.	1617.	5913.	0.715	0.2339	0.1443	1.6554	0.6457	3.6568
1200.	1893.	6637.	0.749	0.2450	0.1467	1.6604	0.6593	3.5247
1249.	2171.	7342.	0.778	0.2505	0.1504	1.6658	0.6654	3.3819
1302.	2527.	8047.	0.812	0.2523	0.1542	1.6364	0.6559	3.1844
1353.	2828.	8328.	0.844	0.2532	0.1592	1.6293	0.6615	3.0402
1394.	3296.	8504.	0.872	0.2612	0.1624	1.6077	0.6557	2.9138
1442.	3743.	10571.	0.912	0.2653	0.1701	1.5506	0.6411	2.7029

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 5 POINT 2ND ORDER. TH, 5 PD

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	1594.	6150.	701.	1152.	0.2419	0.1452	1.665	0.554	3.630
0.750	1907.	6663.	819.	1203.	0.2443	0.1469	1.667	0.558	3.512
0.775	2132.	7217.	946.	1243.	0.2484	0.1496	1.640	0.660	3.385
0.800	2397.	7317.	973.	1283.	0.2525	0.1529	1.651	0.662	3.261
0.825	2691.	8420.	900.	1323.	0.2557	0.1550	1.540	0.652	3.141
0.850	3004.	9043.	928.	1353.	0.2588	0.1508	1.513	0.657	3.010
0.875	3359.	9488.	955.	1403.	0.2616	0.1638	1.507	0.652	2.894
0.900	3747.	10353.	982.	1443.	0.2643	0.1679	1.574	0.646	2.763

[illegible][illegible][illegible][illegible]

NOT REPRODUCIBLE

STATIC PROBE PERFORMANCE

CURTISS CALIBRATOR 7 SERIAL NO 433 M4

PcIA-21.1 Afs -2. C13-13.000 C134 100PC 19.5 IMP4. 825.69 SIGMA-0.9730

***** RAW DATA POINTS *****

RPM	HP	TM	IMPACH	RCT	RCP	PCI/CP	RFM	TM/MP
715.	305.	2035.	0.433	0.2116	0.1124	1.8929	0.6911	0.6721
802.	425.	2549.	0.435	0.2106	0.1129	1.8985	0.6933	0.9976
900.	620.	3259.	0.545	0.2165	0.1145	1.8901	0.7017	0.3210
1000.	878.	4152.	0.677	0.2194	0.1172	1.8720	0.6997	0.7209
1099.	1176.	5015.	0.665	0.2207	0.1193	1.8697	0.6934	0.2845
1205.	1646.	6228.	0.729	0.2280	0.1267	1.7995	0.6856	0.7017
1301.	2193.	7410.	0.787	0.2327	0.1341	1.7350	0.6679	0.3789
1399.	2893.	8613.	0.847	0.2337	0.1423	1.6439	0.6344	0.9772

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP. 6 POINT 2ND ORDER. TM, 6 P

PACH	HP	TM	TIPS	RPM	CT	CP	CI/CP	FM	TM/MP
0.525	537.	3023.	590.	867.	0.2136	0.1107	1.929	0.711	0.635
0.550	626.	3339.	619.	909.	0.2149	0.1124	1.912	0.707	0.332
0.575	728.	3676.	647.	950.	0.2165	0.1144	1.892	0.702	0.046
0.600	843.	4033.	675.	991.	0.2181	0.1165	1.872	0.698	0.784
0.625	955.	4405.	703.	1033.	0.2196	0.1188	1.850	0.703	0.612
0.650	1100.	4806.	731.	1074.	0.2215	0.1196	1.852	0.696	0.370
0.675	1239.	5234.	759.	1115.	0.2237	0.1203	1.859	0.732	0.224
0.700	1419.	5671.	787.	1157.	0.2254	0.1235	1.825	0.691	0.990
0.725	1619.	6128.	815.	1198.	0.2275	0.1268	1.790	0.581	0.787
0.750	1838.	6606.	843.	1239.	0.2287	0.1301	1.757	0.671	0.593
0.775	2079.	7103.	872.	1280.	0.2303	0.1334	1.727	0.661	0.417
0.800	2340.	7621.	900.	1322.	0.2319	0.1365	1.699	0.653	0.257
0.825	2621.	8159.	928.	1363.	0.2334	0.1394	1.675	0.646	0.113

STATIC POCE PERFORMANCE

CURTIS CALIBRATION / SERVICE 400 NO 6.5 M4

REF=21.1 MP = 2. PLATEAU 19.2 TEMPO 22.09 SIGMA=0.913C

***** RAW DATA POINTS *****

RPM	MP	IN	TMACH	RCT	RCP	RCT/CP	RPM	21M/MP
756.	245.	2179.	2.450	0.2026	0.1275	1.9845	7.6770	6.3159
854.	217.	2439.	0.518	0.2132	0.1110	1.9276	0.7276	5.6847
955.	735.	3702.	0.578	0.2156	0.1136	1.8974	0.7231	5.0360
1051.	1710.	4563.	0.636	0.2196	0.1172	1.8740	0.7207	4.5178
1150.	1355.	5488.	0.696	0.2236	0.1220	1.8383	0.6899	4.0502
1254.	1893.	6783.	0.759	0.2293	0.1293	1.7734	0.6776	3.5832
1354.	2546.	8056.	0.820	0.2336	0.1381	1.6913	0.6523	3.1650
1400.	2517.	8695.	0.847	0.2358	0.1432	1.6470	0.6342	2.9938

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP. 6 POINT 2ND ORDER. TM. 6 P

PACH	MP	IN	TIPO	RPM	CT	CP	CT/CP	FM	TM/MP
C.525	522.	2947.	590.	867.	0.2175	0.1076	1.956	0.716	5.713
C.550	628.	3311.	619.	909.	0.2125	0.1091	1.948	0.717	5.432
C.575	738.	3642.	647.	950.	0.2145	0.1112	1.929	0.713	5.145
C.600	822.	4072.	675.	991.	0.2164	0.1136	1.905	0.727	4.869
C.625	950.	4331.	711.	1033.	0.2184	0.1162	1.869	0.731	4.512
C.650	1049.	4756.	731.	1074.	0.2152	0.1163	1.885	0.704	4.447
C.675	1230.	5173.	759.	1115.	0.2211	0.1194	1.851	0.694	4.205
C.700	1301.	5611.	797.	1157.	0.2229	0.1211	1.941	0.694	4.034
C.725	1591.	6375.	815.	1198.	0.2252	0.1247	1.805	0.683	3.818
C.750	1914.	6564.	843.	1239.	0.2272	0.1284	1.769	0.671	3.618
C.775	2061.	7779.	872.	1280.	0.2294	0.1322	1.736	0.663	3.435
C.800	2335.	7016.	920.	1322.	0.2317	0.1359	1.705	0.655	3.268
C.825	2623.	6147.	974.	1363.	0.2340	0.1395	1.678	0.644	3.119

17:51:11

1941-1942

.....SINCE 1975

IPM	MP	10-10ACH	KCI	KCP	KCI/CP	RFM
719.	321.	2.731.	0.2150	0.1163	1.8895	0.5939
693.	643.	2.654.	0.2163	0.1165	1.8560	0.6097
672.	637.	2.294.	0.2182	0.1169	1.8529	0.6015
1072.	694.	4.083.	0.2161	0.1197	1.8262	0.5701
1122.	1223.	5.549.	0.2113	0.1231	1.7956	0.6736
1192.	1633.	6.116.	0.2264	0.1279	1.7703	0.6722
1259.	2277.	7.475.	0.2354	0.1399	1.6831	0.6517
1403.	3562.	6.734.	0.2358	0.1497	1.5759	0.6107
						2.9459

***** THREE CARS FOR CONSTANT MACH ***** (HP, 6 CYL 240 HORR. IN. 6 I

PACH	HP	IM	TIME	RPM	CI	CP	CI/CP	FW	177MD
G-525	504.	2342.	572.	941.	5.2136	5.1141	1.072	0.093	5.039
G-550	545.	3125.	600.	901.	5.2129	5.1151	1.059	0.086	5.345
C-555	677.	3428.	627.	921.	5.2147	5.1166	1.342	0.091	5.066
C-622	790.	3753.	654.	961.	5.2159	5.1193	1.925	0.077	4.810
G-625	895.	4008.	681.	1001.	5.2173	5.1201	1.809	0.073	4.579
G-650	1020.	4440.	729.	1041.	5.2176	5.1193	1.325	0.079	4.443
C-675	1148.	4816.	736.	1201.	5.2199	5.1223	1.797	0.072	4.211
C-700	1290.	5286.	763.	1121.	5.2253	5.1232	1.913	0.084	4.096
G-725	1476.	5719.	791.	1161.	5.2253	5.1269	1.776	0.073	3.874
C-750	1694.	6175.	818.	1201.	5.2274	5.1307	1.739	0.067	3.667
C-775	1913.	6652.	845.	1241.	5.2264	5.1346	1.704	0.051	3.477
G-800	2164.	7149.	872.	1282.	5.2314	5.1395	1.671	0.041	3.323
C-825	2417.	7668.	900.	1322.	5.2331	5.1422	1.561	0.032	3.146
C-850	2732.	8206.	927.	1362.	5.2353	5.1457	1.614	0.026	3.004
C-875	3043.	8766.	954.	1402.	5.2371	5.1491	1.531	0.019	2.976

STATIC PROP PERFORMANCE

CURVESS CALIBRATING 2 - CYCLE TURN NO 406 W2

DELTA=21.1 AFB -7. 11A=11.0. 0.014 1 MAC= 1.0 TEMPA= 494.39 SIGMA=1.0149

***** RAW DATA POINTS *****

RPM	MP	IM	TPACH	RCT	RCP	RCT/CP	RPM	IM/MP
710.	3.7.	2012.	0.443	0.2121	0.1155	1.9365	0.6750	6.5537
799.	439.	2594.	0.499	0.2160	0.1159	1.8634	0.6910	5.9089
902.	637.	3294.	0.563	0.2152	0.1169	1.9409	0.6815	5.1711
1010.	513.	4191.	0.630	0.2184	0.1193	1.8298	0.6823	4.5904
1109.	1256.	5049.	0.692	0.2182	0.1240	1.7595	0.6559	4.0199
1201.	1673.	6233.	0.750	0.2297	0.1321	1.7660	0.6754	3.7256
1295.	2326.	7574.	0.811	0.2386	0.1417	1.6839	0.6563	3.2845
1407.	3009.	8778.	0.878	0.2357	0.1493	1.5785	0.6115	2.8426

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 PCINT 2.60 ORDER. IM, 6 I

PACH	MP	IM	TIPS	RPM	CT	CP	CT/CP	FM	IM/MP
0.525	498.	2926.	572.	841.	0.2124	0.1127	1.884	0.693	5.675
0.550	579.	3111.	600.	881.	0.2130	0.1140	1.868	0.698	5.373
0.575	672.	3418.	627.	921.	0.2141	0.1158	1.849	0.683	5.085
0.600	777.	3747.	654.	961.	0.2156	0.1179	1.828	0.677	4.819
0.625	895.	4099.	681.	1001.	0.2173	0.1201	1.809	0.673	4.579
0.650	1021.	4433.	709.	1041.	0.2173	0.1194	1.819	0.677	4.427
0.675	1153.	4837.	736.	1081.	0.2199	0.1228	1.791	0.670	4.196
0.700	1326.	5316.	763.	1121.	0.2247	0.1248	1.801	0.681	4.059
0.725	1493.	5755.	791.	1161.	0.2268	0.1284	1.766	0.671	3.853
0.750	1701.	6213.	818.	1201.	0.2298	0.1321	1.732	0.661	3.652
0.775	1929.	6690.	845.	1241.	0.2307	0.1358	1.699	0.651	3.468
0.800	2178.	7186.	872.	1282.	0.2326	0.1393	1.669	0.642	3.300
0.825	2447.	7702.	900.	1322.	0.2344	0.1427	1.642	0.634	3.148
0.850	2736.	8237.	927.	1362.	0.2361	0.1460	1.618	0.627	3.010
0.875	3046.	8791.	954.	1402.	0.2378	0.1497	1.597	0.621	2.826

STATIC PRICE PERFORMANCE

CURTIS CALIBRATION 2 ADY56 RUM NO 447 BK

ATA=21.1 BPS -0.01413... VOLUME T/CPC= 1.3 TEMPERATURE 494.39 SLIP=1.0140

***** MAX DATA POINTS *****

RPM	MP	TH	IMACH	ACT	RCP	CT/CP	RFM	TH/MP
707.	200.	2002.	0.441	0.2129	0.1143	1.8621	0.6856	6.6733
750.	439.	2823.	0.498	0.2169	0.1163	1.8618	0.7026	5.9749
890.	651.	3373.	0.561	0.2223	0.1211	1.8364	0.6939	5.1813
1004.	881.	4083.	0.627	0.2153	0.1172	1.8365	0.6800	4.6345
1100.	1233.	5128.	0.687	0.2252	0.1247	1.8056	0.6938	4.1590
1201.	1653.	6233.	0.750	0.2297	0.1290	1.7798	0.6807	3.7548
1250.	2257.	7456.	0.811	0.2348	0.1387	1.6937	0.6550	3.3035
1404.	3043.	8659.	0.876	0.2335	0.1479	1.5784	0.6096	2.9484

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (MP, 6 POINT 2ND ORDER. TH, 6)

MACH	MP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/MP
0.525	505.	2876.	572.	941.	0.2161	0.1142	1.892	0.702	5.699
0.550	587.	3168.	603.	881.	0.2169	0.1156	1.877	0.698	5.399
0.575	683.	3481.	627.	921.	0.2180	0.1173	1.859	0.693	5.115
0.600	785.	3813.	654.	961.	0.2194	0.1191	1.841	0.688	4.854
0.625	902.	4144.	681.	1001.	0.2208	0.1210	1.825	0.684	4.618
0.650	1029.	4511.	709.	1041.	0.2211	0.1234	1.837	0.689	4.470
0.675	1156.	4924.	736.	1081.	0.2229	0.1232	1.810	0.682	4.241
0.700	1296.	5348.	763.	1121.	0.2261	0.1238	1.826	0.693	4.126
0.725	1479.	5773.	791.	1161.	0.2275	0.1271	1.789	0.681	3.903
0.750	1683.	6215.	818.	1201.	0.2288	0.1307	1.751	0.668	3.693
0.775	1907.	6674.	845.	1241.	0.2301	0.1342	1.715	0.656	3.499
0.800	2152.	7151.	872.	1282.	0.2314	0.1377	1.690	0.645	3.321
0.825	2418.	7646.	900.	1322.	0.2327	0.1411	1.649	0.635	3.161
0.850	2705.	8158.	927.	1362.	0.2339	0.1443	1.621	0.625	3.016
0.875	3013.	8698.	954.	1402.	0.2350	0.1473	1.595	0.617	2.884

**ASD-TR-69-15
PART II**

SECTION V

**DATA RUNS: RIG 1,
PROTECTIVE WALLS UP**

CONFIGURATION

13166A10P3

PAGE

340

STATIC PROP PERFORMANCE

1700 RPM

CURTISS ~~1700 RPM~~ SHEET IS RIG 1 15 JULY 63 CALLS UP

MEIA=10.0 AF= -0.0 DIA=11.000 VOLTS= 27.0 RPM= 531.29 SIGMA=0.9570

***** GAT DATA POINTS *****

RPM	MP	TM	TMACH	RCT	RCP	CT/CP	RFM	RTM/MP
500.	92.	498.	0.452	0.0414	0.0242	1.7091	0.2774	5.4130
1000.	160.	731.	0.602	0.0389	0.0215	1.5032	0.2836	4.5687
1200.	255.	1027.	0.723	0.0371	0.0198	1.8719	0.2877	3.9490
1300.	319.	1177.	0.783	0.0370	0.0196	1.8931	0.2907	3.6997
1400.	326.	1293.	0.845	0.0349	0.0188	1.8549	0.2766	3.3597

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP. 6 PCINT 2ND ORDER. TM. 6

MACH	MP	TM	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.525	113.	580.	593.	972.	0.0406	0.0229	1.770	0.284	5.144
0.550	126.	631.	622.	913.	0.0402	0.0223	1.800	0.288	4.993
0.575	141.	693.	650.	955.	0.0398	0.0219	1.821	0.290	4.833
0.600	158.	737.	678.	996.	0.0394	0.0215	1.836	0.291	4.670
0.625	175.	791.	706.	1038.	0.0390	0.0211	1.847	0.291	4.509
0.650	194.	846.	735.	1079.	0.0386	0.0208	1.854	0.291	4.353
0.675	214.	901.	763.	1121.	0.0381	0.0205	1.859	0.290	4.203
0.700	236.	958.	791.	1162.	0.0377	0.0202	1.863	0.289	4.060
0.725	259.	1016.	820.	1204.	0.0373	0.0200	1.865	0.287	3.925
0.750	293.	1075.	848.	1245.	0.0368	0.0197	1.867	0.286	3.797
0.775	309.	1134.	874.	1287.	0.0364	0.0195	1.868	0.284	3.677
0.800	335.	1195.	904.	1329.	0.0360	0.0193	1.869	0.283	3.564
0.825	363.	1256.	933.	1370.	0.0356	0.0190	1.870	0.281	3.458

STATIC PROP PERFORMANCE

17669/CP3

CURTISE ~~17669/CP3~~ SHEET 4 FIG 1 12 JULY 63 WALLS UP

BETA=14.0 AF= -0. DIA=13.000 VBLU³ TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9530

***** RAW DATA POINTS *****

RPM	MP	TM	FMACH	RCT	RCP	RCT/CP	RPM	RJM/MP
800.	129.	1012.	0.479	0.0707	0.0339	2.0829	0.4419	6.5969
999.	222.	1288.	0.599	0.0696	0.0300	2.2876	0.4781	5.8018
1190.	350.	1411.	0.718	0.0670	0.0273	2.4486	0.5056	5.1743
1300.	434.	2077.	0.779	0.0653	0.0266	2.4555	0.5008	4.7857

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** IMP, 6 POINT 2ND ORDER. TM, 6

MACH	MP	TM	TIPS	RPM	CT	CP	CT/CP	FM	TM/MP
0.525	60.	1012.	596.	976.	0.0701	0.0320	2.191	0.463	6.337
0.550	179.	1106.	625.	916.	0.0697	0.0311	2.240	0.472	6.182
0.575	200.	1201.	653.	960.	0.0693	0.0304	2.280	0.479	6.018
0.600	222.	1300.	682.	1001.	0.0689	0.0298	2.313	0.484	5.852
0.625	272.	1401.	710.	1043.	0.0684	0.0292	2.342	0.489	5.688
0.650	272.	1505.	738.	1085.	0.0679	0.0287	2.367	0.492	5.527
0.675	300.	1611.	767.	1127.	0.0675	0.0292	2.389	0.495	5.373
0.700	329.	1720.	795.	1168.	0.0670	0.0278	2.410	0.498	5.225
0.725	360.	1832.	824.	1210.	0.0665	0.0274	2.429	0.500	5.085
0.750	393.	1946.	852.	1252.	0.0660	0.0270	2.447	0.502	4.952
0.775	428.	2063.	880.	1294.	0.0655	0.0266	2.464	0.503	4.826

STATIC P2CP PERFORMANCE

17669A/P3

CURTIS ~~17669A/P3~~ SHEET 14 RIG 1 15JULY63 WALLS UP

BETA=12.0 AF= -0. DIA=13.000 NBL ³ TEMPR= 531.29 SIGMA=0.9570

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
800.	193.	1356.	0.482	0.1126	0.0508	2.2184	0.5941	7.0259
1005.	354.	2097.	0.605	0.1103	0.0470	2.3497	0.6229	5.9237
1200.	574.	2955.	0.723	0.1091	0.0447	2.4390	0.6429	5.1498
1300.	713.	3464.	0.783	0.1089	0.0437	2.4927	0.6566	4.8583

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	241.	1596.	593.	872.	0.1116	0.0490	2.277	0.607	6.618
0.550	273.	1743.	622.	913.	0.1111	0.0482	2.303	0.612	6.388
0.575	308.	1898.	650.	955.	0.1107	0.0476	2.325	0.617	6.168
0.600	346.	2061.	678.	996.	0.1103	0.0470	2.345	0.621	5.962
0.625	386.	2230.	706.	1038.	0.1100	0.0465	2.364	0.626	5.771
0.650	430.	2406.	735.	1079.	0.1098	0.0461	2.383	0.630	5.554
0.675	477.	2590.	763.	1121.	0.1095	0.0456	2.402	0.634	5.430
0.700	527.	2780.	791.	1162.	0.1094	0.0452	2.422	0.639	5.279
0.725	579.	2978.	820.	1204.	0.1092	0.0447	2.442	0.644	5.139
0.750	635.	3183.	848.	1245.	0.1091	0.0443	2.463	0.649	5.011
0.775	694.	3395.	876.	1287.	0.1089	0.0438	2.485	0.655	4.893

STATIC PROP PERFORMANCE

13KGA1013
CURTISS ~~13KGA1013~~ SHEET 5 RIG 1 11JULY63 WALLS UP

BETA=20.0 AF= -0. DIA=13.000 NBL ³ TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RIH/HP
801.	207.	1553.	0.482	0.1286	0.0542	2.3718	0.6789	7.5024
1000.	390.	2398.	0.602	0.1275	0.0525	2.4268	0.6914	6.1487
1202.	644.	3317.	0.724	0.1220	0.0499	2.4435	0.6811	5.1506
1300.	736.	3878.	0.793	0.1220	0.0451	2.7035	0.7534	5.2690

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	271.	1836.	593.	872.	0.1284	0.0551	2.330	0.666	6.770
0.550	312.	2006.	622.	913.	0.1278	0.0552	2.316	0.661	6.425
0.575	354.	2182.	650.	955.	0.1272	0.0548	2.321	0.660	6.157
0.600	397.	2363.	678.	996.	0.1265	0.0541	2.338	0.664	5.945
0.625	442.	2550.	706.	1038.	0.1258	0.0532	2.365	0.670	5.774
0.650	487.	2743.	735.	1079.	0.1251	0.0521	2.400	0.677	5.633
0.675	533.	2942.	763.	1121.	0.1244	0.0510	2.440	0.687	5.516
0.700	581.	3146.	791.	1162.	0.1237	0.0498	2.485	0.698	5.417
0.725	629.	3355.	820.	1204.	0.1230	0.0485	2.534	0.709	5.333
0.750	679.	3571.	849.	1245.	0.1224	0.0473	2.587	0.722	5.262
0.775	729.	3792.	876.	1287.	0.1217	0.0461	2.641	0.735	5.200

STATIC PROP PERFORMANCE

13166 A10P3

CURTISS ~~13610A10P3~~ SHEET 7 RIG 1 12JULY63 WALLS UP

BETA=20.0 AF= -0. DIA=13.000 NBL ³ TEMPC= J TEMPR= 536.69 SIGMA=0.9520

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
801.	225.	1567.	0.490	0.1298	0.0590	2.2017	0.6330	6.9644
1000.	418.	2482.	0.599	0.1319	0.0563	2.3435	0.6792	5.9378
1200.	690.	3484.	0.719	0.1286	0.0538	2.3914	0.6843	5.0493
1300.	875.	4123.	0.779	0.1297	0.0536	2.4177	0.6947	4.7120

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	286.	1890.	596.	876.	0.1308	0.0573	2.282	0.659	6.599
0.550	325.	2075.	625.	918.	0.1309	0.0567	2.310	0.667	6.377
0.575	369.	2268.	653.	960.	0.1309	0.0561	2.331	0.673	6.153
0.600	416.	2467.	682.	1001.	0.1308	0.0557	2.346	0.677	5.935
0.625	467.	2674.	710.	1043.	0.1306	0.0554	2.358	0.680	5.727
0.650	522.	2888.	738.	1085.	0.1304	0.0551	2.368	0.682	5.530
0.675	582.	3110.	767.	1127.	0.1302	0.0548	2.377	0.685	5.346
0.700	645.	3338.	795.	1168.	0.1300	0.0545	2.386	0.686	5.175
0.725	713.	3574.	824.	1210.	0.1297	0.0542	2.395	0.688	5.015
0.750	784.	3816.	852.	1252.	0.1294	0.0538	2.405	0.690	4.867
0.775	850.	4066.	880.	1294.	0.1292	0.0535	2.415	0.693	4.730

13 JUL 63
SHEPHERD, J. D. 1 19453 ALLC UP

$\tau = - \cdot$ $(A=13.0^\circ)$ $(\Delta_{\text{PC}}^{\text{H}_2\text{O}} = 595.0^\circ)$ $(\Delta_{\text{H}_2\text{O}} = 9530)$

[illegible]

30W	HP	IMACH	RCT	RCP	RCT/CP	RFM	RTM/HP
278	185	0.482	0.1560	0.0728	2.1413	0.6749	6.7734
290	201	0.601	0.1553	0.0720	2.2110	0.6953	5.6077
306	422	0.721	0.1559	0.0690	2.2574	0.7112	4.7664
1239	1127	0.781	0.1562	0.0692	2.2555	0.7112	4.3993

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER ***** (HP, 6 POINT 2ND ORDER. TH, 6

NACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	351.	2232.	594.	873.	0.1555	0.0709	2.193	0.690	6.362
0.550	400.	2447.	623.	915.	0.1554	0.0703	2.210	0.695	6.120
0.575	455.	2674.	651.	956.	0.1553	0.0700	2.220	0.698	5.880
0.600	515.	2911.	679.	998.	0.1553	0.0698	2.226	0.700	5.650
0.625	582.	3160.	708.	1040.	0.1554	0.0697	2.229	0.701	5.433
0.650	654.	3420.	736.	1081.	0.1555	0.0696	2.233	0.702	5.232
0.675	731.	3690.	764.	1123.	0.1556	0.0696	2.236	0.704	5.045
0.700	815.	3972.	793.	1164.	0.1557	0.0695	2.240	0.705	4.874
0.725	904.	4265.	821.	1206.	0.1558	0.0694	2.245	0.707	4.717
0.750	999.	4568.	849.	1248.	0.1560	0.0693	2.251	0.710	4.572
0.775	1100.	4883.	876.	1289.	0.1562	0.0691	2.259	0.712	4.440

NOT REPRODUCIBLE

STATIC PRCP PERFORMANCE

1366A/C/P3

CURTISS ~~136144A24~~ SHEET 4 RIG 1 11JULY63 WALLS UP

BETA=24.0 AF= -0. DIA=13.000 NBL= ³ TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9600

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
799.	330.	2175.	0.481	0.1811	0.0871	2.0784	0.7058	6.5909
1000.	540.	3359.	0.602	0.1785	0.0862	2.0715	0.6984	5.2484
1200.	1053.	5880.	0.723	0.1801	0.0821	2.1499	0.7434	4.6344
1300.	1369.	5873.	0.783	0.1847	0.0839	2.2011	0.7549	4.2900

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	421.	2551.	593.	872.	0.1784	0.0857	2.083	0.702	6.053
0.550	481.	2787.	622.	913.	0.1776	0.0849	2.091	0.703	5.800
0.575	546.	3041.	650.	955.	0.1773	0.0845	2.097	0.705	5.565
0.600	619.	3313.	678.	996.	0.1774	0.0843	2.104	0.707	5.351
0.625	699.	3604.	706.	1038.	0.1778	0.0942	2.113	0.711	5.158
0.650	785.	3912.	735.	1079.	0.1785	0.0841	2.123	0.716	4.984
0.675	878.	4239.	763.	1121.	0.1793	0.0840	2.136	0.722	4.827
0.700	978.	4584.	791.	1162.	0.1803	0.0838	2.150	0.729	4.687
0.725	1085.	4947.	820.	1204.	0.1814	0.0837	2.167	0.736	4.560
0.750	1198.	5328.	848.	1245.	0.1826	0.0835	2.186	0.745	4.447
0.775	1319.	5727.	876.	1287.	0.1838	0.0833	2.206	0.755	4.344

13166A/CPS

CONFIDENTIAL - SECURITY INFORMATION

$\mu = 0.6$, $V = -$, $(\lambda = 1.5)$, $\mu = 0.7$, $V = -$, $(\lambda = 1.5)$

THE LARA PULPITS *****

rpm	HP	TH	FMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
799.	337.	2186.	0.481	0.1820	0.0890	2.0456	0.6964	6.4866
799.	339.	2176.	0.481	0.1812	0.0895	2.0242	0.6875	6.4189
800.	339.	2176.	0.482	0.1807	0.0892	2.0267	0.6875	6.4289
999.	647.	3282.	0.602	0.1801	0.0874	2.0610	0.6980	5.2272
1000.	650.	3292.	0.602	0.1803	0.0875	2.0596	0.6979	5.2185
1004.	664.	3468.	0.605	0.1803	0.0884	2.0696	0.7062	5.2229
1200.	1126.	4908.	0.723	0.1812	0.0878	2.0644	0.7012	4.3588
1201.	1132.	4950.	0.723	0.1924	0.0880	2.0727	0.7064	4.3728
1205.	1147.	4970.	0.726	0.1819	0.0883	2.0607	0.7014	4.3330
1300.	1467.	5845.	0.783	0.1838	0.0899	2.0443	0.6994	3.9843
1300.	1473.	5866.	0.783	0.1845	0.0903	2.0433	0.7003	3.9823
1302.	1474.	5865.	0.784	0.1839	0.0899	2.0447	0.6997	3.9790

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	368.	2039.	593.	872.	0.1461	0.0748	1.951	0.595	5.671
0.550	428.	2307.	622.	913.	0.1470	0.0756	1.945	0.595	5.395
0.575	518.	2722.	650.	955.	0.1587	0.0801	1.982	0.630	5.259
0.600	638.	3333.	678.	996.	0.1785	0.0869	2.054	0.692	5.222
0.625	732.	3805.	706.	1038.	0.1878	0.0892	2.129	0.736	5.198
0.650	826.	4186.	735.	1079.	0.1910	0.0884	2.160	0.753	5.070
0.675	925.	4504.	763.	1121.	0.1905	0.0884	2.155	0.750	4.870
0.700	1030.	4759.	791.	1162.	0.1872	0.0883	2.120	0.732	4.621
0.725	1141.	4960.	820.	1204.	0.1819	0.0880	2.065	0.703	4.347
0.750	1303.	5386.	849.	1245.	0.1845	0.0908	2.033	0.697	4.135
0.775	1434.	5751.	876.	1287.	0.1845	0.0906	2.037	0.698	4.010

STATIC PROP PERFORMANCE

13 JUL 63

CURTISS ~~10144223~~ SHEET 9 RIG 1 15 JULY 63 WALLS UP

BETA=24.0 AF= -C. CIA=13.000 NHL=4 TEMPC= 22.0 TEMPR= 531.29 SIGMA=0.9510

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
802.	321.	2069.	0.483	0.1709	0.0838	2.0392	0.6727	5.4424
1001.	608.	3221.	0.603	0.1709	0.0816	2.0930	0.6904	5.2977
1200.	1051.	4680.	0.723	0.1727	0.0819	2.1090	0.6995	4.4529
1301.	1353.	5545.	0.783	0.1741	0.0827	2.1044	0.7007	4.0983

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	402.	2437.	593.	872.	0.1704	0.0817	2.086	0.687	6.064
0.550	459.	2674.	622.	913.	0.1704	0.0812	2.099	0.691	5.823
0.575	524.	2925.	650.	955.	0.1705	0.0810	2.104	0.693	5.583
0.600	596.	3199.	678.	996.	0.1707	0.0811	2.104	0.694	5.351
0.625	675.	3467.	706.	1038.	0.1711	0.0814	2.103	0.694	5.133
0.650	762.	3759.	735.	1079.	0.1715	0.0816	2.101	0.694	4.931
0.675	856.	4064.	763.	1121.	0.1719	0.0819	2.099	0.695	4.745
0.700	958.	4392.	791.	1162.	0.1724	0.0821	2.099	0.695	4.574
0.725	1067.	4714.	820.	1204.	0.1729	0.0823	2.100	0.697	4.419
0.750	1183.	5060.	848.	1245.	0.1734	0.0825	2.102	0.699	4.277
0.775	1307.	5420.	876.	1287.	0.1739	0.0826	2.106	0.701	4.147

STATIC PROCP PERFORMANCE

1366A1073

CURTISS ~~1366A1073~~ SHEET 12 RIG 1 15JULY63 WALLS UP

BETA=27.0 IF= -0. DIA=13.000 NBL= ~~1366A1073~~ TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RIH/HP
800.	460.	2696.	0.480	0.2239	0.1210	1.8505	0.6987	5.8609
1000.	921.	4083.	0.600	0.2170	0.1240	1.7497	0.6504	4.4332
1190.	1621.	5840.	0.720	0.2159	0.1266	1.7049	0.6322	3.6027
1300.	2123.	6986.	0.780	0.2197	0.1301	1.6884	0.6315	3.2906

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	597.	3156.	595.	875.	0.2192	0.1201	1.825	0.682	5.287
0.550	639.	3437.	624.	916.	0.2175	0.1205	1.805	0.672	4.990
0.575	793.	3738.	652.	958.	0.2164	0.1214	1.783	0.662	4.715
0.600	909.	4059.	681.	1000.	0.2158	0.1225	1.761	0.653	4.464
0.625	1038.	4400.	709.	1041.	0.2156	0.1238	1.742	0.646	4.238
0.650	1179.	4761.	737.	1083.	0.2157	0.1250	1.726	0.640	4.037
0.675	1333.	5143.	766.	1125.	0.2161	0.1262	1.713	0.635	3.858
0.700	1499.	5544.	794.	1166.	0.2166	0.1272	1.703	0.632	3.699
0.725	1677.	5966.	822.	1208.	0.2173	0.1281	1.696	0.631	3.558
0.750	1858.	6408.	851.	1250.	0.2181	0.1289	1.692	0.631	3.431
0.775	2071.	6870.	879.	1291.	0.2190	0.1295	1.691	0.631	3.318

STATIC PROP PERFORMANCE

13166 ~~ADP3~~ ADP3
CURTISS ~~13166 ADP3~~ SHEET 18 RIG 1 18 JULY 63 WALLS UP

BETA=28.8 AF= -C. DIA=13.000 NBL ~~3~~ TEMPC= 25.0 TEMPR= 538.49 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTI"/HP
1418.	3530.	9090.	0.848	0.2403	0.1667	1.4412	0.5637	2.5751
1420.	3530.	9090.	0.849	0.2396	0.1660	1.4432	0.5637	2.5751
1420.	3580.	9310.	0.849	0.2454	0.1684	1.4575	0.5762	2.6006
1423.	3560.	9420.	0.851	0.2473	0.1664	1.4861	0.5897	2.5461
1423.	3590.	9310.	0.851	0.2444	0.1678	1.4565	0.5745	2.5933
1423.	3601.	9200.	0.851	0.2415	0.1683	1.4349	0.5627	2.5548

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
C.850	3566.	9247.	967.	1421.	0.2434	0.1674	1.454	0.572	2.593

STATIC PROP PERFORMANCE

13166A10P3
CURTISS 13161422P3 SHEET 16 RIG 1 16JULY63 WALLS UP

BETA=29.5 AF= -0, DIA=13.000 YBL=4 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9470

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	REM	RTH/HP
800.	613.	2978.	0.479	0.2473	0.1625	1.5215	0.6038	4.8188
1000.	1219.	4681.	0.599	0.2488	0.1642	1.5156	0.6033	3.8400
1200.	2105.	6600.	0.719	0.2436	0.1640	1.4850	0.5849	3.1354
1203.	2118.	6600.	0.721	0.2424	0.1638	1.4795	0.5813	3.1161
1300.	2767.	7757.	0.779	0.2440	0.1696	1.4384	0.5669	2.8034
1402.	3464.	9160.	0.840	0.2477	0.1693	1.4632	0.5811	2.6443
1418.	3515.	9383.	0.850	0.2480	0.1707	1.4526	0.5773	2.5956
1420.	3616.	9383.	0.851	0.2473	0.1701	1.4543	0.5771	2.5949
1420.	3653.	9423.	0.851	0.2484	0.1718	1.4457	0.5750	2.5795

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	796.	3560.	596.	876.	0.2464	0.1593	1.547	0.613	4.473
0.550	911.	3888.	625.	918.	0.2453	0.1587	1.546	0.611	4.266
0.575	1044.	4236.	653.	960.	0.2445	0.1590	1.538	0.607	4.059
0.600	1192.	4603.	682.	1001.	0.2440	0.1599	1.526	0.601	3.861
0.625	1358.	4990.	710.	1043.	0.2437	0.1611	1.513	0.596	3.675
0.650	1540.	5396.	738.	1085.	0.2437	0.1624	1.501	0.591	3.505
0.675	1738.	5821.	767.	1127.	0.2438	0.1637	1.489	0.587	3.349
0.700	1953.	6266.	795.	1168.	0.2440	0.1649	1.479	0.583	3.208
0.725	2172.	6691.	824.	1210.	0.2429	0.1651	1.471	0.579	3.080
0.750	2422.	7175.	852.	1252.	0.2434	0.1662	1.464	0.576	2.963
0.775	2691.	7688.	880.	1294.	0.2442	0.1674	1.459	0.575	2.857
0.800	3005.	8218.	909.	1335.	0.2450	0.1700	1.441	0.569	2.735
0.825	3301.	8787.	937.	1377.	0.2463	0.1703	1.447	0.573	2.662
0.850	3616.	9390.	966.	1419.	0.2480	0.1705	1.454	0.578	2.597

STATIC PROP PERFORMANCE

1366AICP3
CURT ISS ~~13614FA203~~ SHEET 17 RIG 1 17JULY63 WALLS UP

BETA=29.5 AF= -0. DIA=13.000 NBL ~~1~~ TEMPC= 26.0 TEMPR= 538.49 SIGMA=0.9470

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
1202.	2160.	6670.	0.719	0.2454	0.1675	1.4649	0.5791	3.0880
1407.	3660.	9365.	0.842	0.2514	0.1770	1.4209	0.5686	2.5587
1407.	3660.	9365.	0.842	0.2514	0.1770	1.4209	0.5686	2.5587
1407.	3660.	9390.	0.842	0.2521	0.1770	1.4247	0.5708	2.5656
1417.	3653.	9360.	0.848	0.2478	0.1729	1.4330	0.5692	2.5623

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2ND ORDER, TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.725	2307.	6936.	825.	1212.	0.2509	0.1745	1.438	0.575	3.006
0.750	2836.	7891.	853.	1254.	0.2667	0.1937	1.377	0.568	2.782
0.775	3234.	8610.	892.	1296.	0.2726	0.2002	1.361	0.567	2.662
0.800	3503.	9093.	910.	1337.	0.2702	0.1971	1.370	0.568	2.596
0.825	3640.	9340.	939.	1379.	0.2609	0.1868	1.397	0.569	2.566

STATIC PROP PERFORMANCE

176. AICP3

CURTISS ~~401-423~~ 3 SHEET 2 RIG 1 9 JULY 63 WALLS UP

BETA=30.0 AF= -0. DIA=13.000 NBL=3 TEMPC= 20.0 TEMPR= 527.69 SIGMA=0.9650

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
804.	648.	3087.	0.496	0.2538	0.1679	1.5117	0.6078	4.7639
1000.	1269.	4710.	0.604	0.2503	0.1709	1.4649	0.5849	3.7116
1203.	2278.	6773.	0.727	0.2487	0.1762	1.4117	0.5618	2.9732
1300.	2895.	7842.	0.736	0.2466	0.1775	1.3894	0.5506	2.7079
1300.	2893.	7922.	0.746	0.2491	0.1776	1.4026	0.5587	2.7336

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 PCINT 2NC ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	814.	3586.	591.	869.	0.2524	0.1672	1.510	0.605	4.402
0.550	941.	3924.	620.	910.	0.2517	0.1679	1.499	0.600	4.173
0.575	1062.	4279.	648.	952.	0.2511	0.1691	1.485	0.594	3.954
0.600	1240.	4549.	676.	993.	0.2506	0.1705	1.470	0.587	3.750
0.625	1413.	5035.	704.	1034.	0.2501	0.1719	1.455	0.581	3.564
0.650	1601.	5436.	732.	1076.	0.2497	0.1732	1.441	0.575	3.395
0.675	1806.	5853.	750.	1117.	0.2493	0.1744	1.429	0.569	3.241
0.700	2026.	6286.	789.	1158.	0.2489	0.1754	1.419	0.565	3.103
0.725	2261.	6734.	817.	1200.	0.2486	0.1763	1.410	0.561	2.978
0.750	2513.	7198.	845.	1241.	0.2483	0.1769	1.403	0.558	2.865
0.775	2790.	7677.	873.	1283.	0.2480	0.1774	1.398	0.556	2.762

STATIC PROP PERFORMANCE

13166A/C/P

CURTISS ~~13166A/C/P~~ TEST 3 RIG : 11JULY63 WALLS UP

DETA=30.0 AF= -0. DIA=3.000 NDL³ TEMPC= 21.5 TEMPR= 530.39 SIGMA=0.9610

***** RAW DATA POINT *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	TH/HP
600.	637.	3152.	0.442	0.2618	0.1728	1.5148	0.6185	4.7976
1000.	1281.	4782.	0.603	0.2542	0.1725	1.4733	0.5927	3.7330
1200.	2172.	6960.	0.723	0.2569	0.1693	1.5177	0.6138	3.2044
1300.	2940.	8040.	0.783	0.2529	0.1802	1.4031	0.5630	2.7347

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	872.	3694.	593.	871.	0.2588	0.1674	1.546	0.628	4.497
0.550	935.	4041.	621.	913.	0.2579	0.1657	1.556	0.631	4.321
0.575	1069.	4404.	649.	954.	0.2571	0.1656	1.553	0.629	4.125
0.600	1219.	4783.	678.	996.	0.2565	0.1664	1.542	0.623	3.924
0.625	1389.	5179.	706.	1037.	0.2560	0.1677	1.526	0.616	3.729
0.650	1578.	5592.	734.	1078.	0.2555	0.1694	1.509	0.609	3.544
0.675	1785.	6021.	762.	1120.	0.2551	0.1711	1.491	0.601	3.372
0.700	2012.	6460.	791.	1161.	0.2548	0.1729	1.473	0.593	3.214
0.725	2257.	6929.	819.	1203.	0.2545	0.1746	1.457	0.587	3.070
0.750	2521.	7407.	847.	1244.	0.2542	0.1762	1.443	0.581	2.938
0.775	2804.	7902.	875.	1286.	0.2540	0.1776	1.430	0.575	2.818

STATIC PRCP PERFORMANCE

1366 AL P?

CURTISS 1361484203 SHEET 10 RIG 1 15JULY63 WALLS UP

BETA=30.0 AF= -0. DIA=13.000 NBL=3 TEMPC= 23.0 TEMPR= 533.09 SIGMA=0.9480

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
800.	671.	3059.	0.481	0.2540	0.1765	1.4394	0.5790	4.5589
1000.	1326.	4802.	0.601	0.2552	0.1786	1.4293	0.5762	3.6214
1201.	2320.	6813.	0.722	0.2510	0.1803	1.3920	0.5566	2.9366
1300.	2983.	8000.	0.782	0.2516	0.1831	1.3737	0.5499	2.6774

***** FILLED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	866.	3655.	594.	873.	0.2547	0.1750	1.456	0.586	4.223
0.550	997.	4010.	623.	915.	0.2546	0.1752	1.453	0.585	4.024
0.575	1144.	4380.	651.	956.	0.2544	0.1760	1.446	0.582	3.830
0.600	1307.	4763.	679.	998.	0.2542	0.1770	1.436	0.578	3.645
0.625	1487.	5162.	708.	1040.	0.2538	0.1781	1.425	0.573	3.472
0.650	1682.	5574.	736.	1081.	0.2534	0.1792	1.414	0.568	3.314
0.675	1894.	6002.	764.	1123.	0.2530	0.1802	1.404	0.564	3.168
0.700	2122.	6443.	793.	1164.	0.2526	0.1810	1.395	0.560	3.036
0.725	2367.	6899.	821.	1206.	0.2521	0.1817	1.387	0.556	2.915
0.750	2627.	7370.	849.	1248.	0.2517	0.1822	1.381	0.553	2.805
0.775	2904.	7855.	878.	1289.	0.2512	0.1825	1.376	0.550	2.705

STATIC PROCP PERFORMANCE

1366 P10 P3

CURTISS ~~136440203~~ SHEET 22 RIG 1 23JULY63 WALLS UP

BETA=0.0 AF= -0. DIA=13.000 NBL=3 TEMPC= 25.0 TEMPR= 536.69 SIGMA=0.9470

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCT	RCP	RCT/CP	RFM	RTH/HP
799.	710.	3186.	0.479	0.2652	0.1874	1.4151	0.5816	4.4873
999.	1395.	4885.	0.599	0.2602	0.1884	1.3807	0.5620	3.5018
1200.	2435.	6955.	0.719	0.2567	0.1898	1.3528	0.5469	2.8563
1300.	3109.	8070.	0.779	0.2538	0.1905	1.3322	0.5356	2.5965
1400.	3967.	9245.	0.839	0.2534	0.1947	1.3016	0.5229	2.3557
1403.	4008.	9550.	0.841	0.2579	0.1954	1.3194	0.5347	2.3827

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	918.	3792.	596.	876.	0.2625	0.1836	1.429	0.584	4.133
0.550	1050.	4139.	625.	918.	0.2610	0.1827	1.428	0.582	3.942
0.575	1201.	4503.	653.	960.	0.2598	0.1830	1.420	0.578	3.749
0.600	1371.	4884.	682.	1001.	0.2589	0.1839	1.408	0.572	3.562
0.625	1561.	5284.	710.	1043.	0.2581	0.1852	1.394	0.565	3.385
0.650	1770.	5700.	738.	1085.	0.2574	0.1866	1.379	0.558	3.221
0.675	1997.	6135.	767.	1127.	0.2569	0.1881	1.366	0.552	3.072
0.700	2244.	6586.	795.	1168.	0.2565	0.1895	1.353	0.547	2.935
0.725	2510.	7056.	824.	1210.	0.2561	0.1907	1.343	0.542	2.811
0.750	2795.	7542.	852.	1252.	0.2558	0.1919	1.333	0.538	2.699
0.775	3099.	8047.	880.	1294.	0.2556	0.1928	1.326	0.535	2.597
0.800	3422.	8568.	909.	1335.	0.2554	0.1936	1.320	0.532	2.504
0.825	3764.	9108.	937.	1377.	0.2553	0.1941	1.315	0.530	2.420

STATIC PROP PERFORMANCE

1366 A/C P3

CURTISS ~~1366 A/C P3~~ SHEET 11 RIG 1 15JULY63 WALLS UP

BETA=34.0 AF= -0. U/A=13.000 NEL=3 TEMPC= 24.0 TEMPR= 534.89 SIGMA=0.9460

***** RAW DATA POINTS *****

RPM	HP	TH	TMACH	RCI	RCP	RCI/CP	RFM	RTH/HP
834.	926.	3360.	0.483	0.2763	0.2399	1.1514	0.4829	3.6285
999.	1752.	5226.	0.600	0.2783	0.2407	1.1563	0.4868	2.9327
1100.	2390.	6294.	0.660	0.2765	0.2418	1.1433	0.4797	2.6335
1200.	3097.	7439.	0.720	0.2746	0.2414	1.1376	0.4757	2.4020
1300.	3974.	8745.	0.780	0.2750	0.2436	1.1291	0.4725	2.2006

***** FITTED CURVE DATA FOR CONSTANT MACH NUMBER INCREMENTS ***** (HP, 6 POINT 2ND ORDER. TH, 6

MACH	HP	TH	TIPS	RPM	CT	CP	CT/CP	FM	TH/HP
0.525	1133.	3994.	595.	875.	0.2774	0.2379	1.166	0.490	3.376
0.550	1350.	4384.	624.	916.	0.2775	0.2379	1.166	0.490	3.224
0.575	1558.	4791.	652.	959.	0.2774	0.2385	1.163	0.489	3.076
0.600	1776.	5213.	681.	1000.	0.2772	0.2394	1.158	0.487	2.935
0.625	2015.	5652.	709.	1041.	0.2770	0.2403	1.153	0.484	2.804
0.650	2275.	6106.	737.	1083.	0.2767	0.2412	1.147	0.481	2.684
0.675	2556.	6577.	766.	1125.	0.2763	0.2419	1.142	0.479	2.573
0.700	2858.	7063.	794.	1166.	0.2759	0.2425	1.138	0.477	2.472
0.725	3180.	7565.	822.	1208.	0.2755	0.2429	1.134	0.475	2.379
0.750	3523.	8083.	851.	1250.	0.2751	0.2431	1.132	0.474	2.295
0.775	3886.	8617.	879.	1291.	0.2746	0.2430	1.130	0.473	2.217

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13. ABSTRACT Part II of this report, ASD-TR-69-15, presents the reduced data obtained during an extensive series of propeller static performance tests conducted on Electric Whirl Rig No. 4, located at Wright-Patterson Air Force Base, Ohio. The tests, conducted from July 1965 to November 1967, were run because of a static performance thrust deficiency encountered during flight tests of the XC-142A V/STOL Cargo Aircraft. Thirteen different propellers were used; 28 different configurations were obtained by changing parameters of some of the 13 blades. The reduced data for the 28 versions of propellers tested are presented herein. Parameters studied during the tests included blade cuff (on or off), tip shape, twist, activity factor, camber, and airfoil section. Data on several other static thrust propellers tested on Rigs Nos. 1 and 4, which were not a part of this test series, are also presented for additional information. Reduction of all data was performed in-house on the IBM-7094 Digital Computer located at Wright-Patterson Air Force Base, Ohio, using the general computer program described in ASD-TR-68-19, "Computer Program for Reducing Static Propeller Test Data." The information obtained from the tests, in effect, represents a state-of-the-art study for improving propeller static performance for V/STOL aircraft applications. The information obtained during these tests can be used to more accurately predict static thrust for future propeller driven V/STOL aircraft.		

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