



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

(NASA-CR-147625) RESULTS OF AN AIR DATA
PROBE INVESTIGATION UTILIZING A 0.10 SCALE
ORBITER FOREBODY (MODEL 57-0) IN THE AMES
RESEARCH CENTER 14-FOOT WIND TUNNEL (OA220)
Aerothermodynamic Data Report (Chrysler

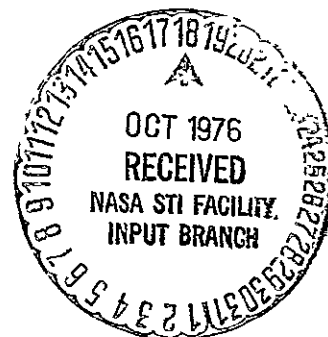
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

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RESULTS OF AN AIR DATA PROBE INVESTIGATION
UTILIZING A 0.10 SCALE ORBITER FOREBODY
(MODEL 57-0) IN THE AMES RESEARCH CENTER 14 FOOT
WIND TUNNEL (OA220)

by

V. Esparza and D. E. Thornton
Shuttle Aerosciences
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 150-1-14
NASA Series Number: OA220
Model Number: 57-0
Test Dates: November 13 through November 21, 1975
Occupancy Hours: 26

FACILITY COORDINATOR:

Jack J. Brownson
Mail Stop 227-5
Ames Research Center
Moffett Field, CA. 94035

Phone: (415) 965-6262

AERODYNAMIC ANALYSIS ENGINEERS:

H. August and A. Mena
Mail Code AC07
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, CA. 90241

Phone: (213) 922-5060

PROJECT ENGINEERS:

V. Esparza and D. E. Thornton
Mail Code AD38
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, CA. 90241

Phone: (213) 922-2665

Gary Claiser
ARO, Inc.
Ames Research Center
Moffett Field, CA. 94035

Phone: (415) 965-5152

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver
Operations--R. B. Lowe

Reviewed by: D. E. Poucher

Approved: J. L. Glynn
J. L. Glynn, Manager
Data Operations

Concurrence: J. L. Glynn
FOR D. Kemp, Manager
Data Management Services

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ABSTRACT

This report presents results of a 0.10 scale orbiter forebody test with left and right mounted AIR DATA PROBES as well as a flight test probe (nose boom).

Left and right ADP data were obtained at Mach numbers of .3, .4, .5, .6, .7, .8, .85, .9, .95, .98, 1.05 and 1.1 through a Reynolds number range of 1.3 to 4.4×10^6 . Nose boom data were obtained at Mach numbers of .3, .4, .5, .6, .7, .9 and .98.

This test, designated OA220, was conducted between November 13 and November 21, 1975.

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SCHEDULE OF COEFFICIENTS PLOTTED:

- | | |
|--|---|
| (A) $C_{P_{SB}}, P_{MF_{DEC}}, C_{P_{TB}}, P_{TF_{DEC}}, C_{P_{AB}}$ versus α | (D) $C_{P_{TB}}, P_{TF_{DEC}}, C_{P_{SB}}, P_{MF_{DEC}}$ versus M |
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| $C_{P_{BB}}$ versus β_f | (G) β_f/β versus M
α_f/α versus M |

NOMENCLATURE

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
ADS		air data system
FRL		fuselage reference line
C_{PA1}	CPA1	right ADP lower angle of attack pressure coefficient
C_{PA2}	CPA2	right ADP upper angle of attack pressure coefficient
C_{P_i}		pressure coefficient for pressure at station i
$C_{P_{TL}}$	CPTL	left air data probe total pressure coefficient
$f_{\alpha_{ADS}}$		ADS α calibration relationship
f_{α_F}		flight test probe α calibration relationship
$f_{\beta_{ADS}}$		ADS β calibration relationship
f_{β_F}		flight test probe β calibration relationship
i_{ADS}		ADS probe incidence angle in α - plane relative to FRL, deg.
$i_{f\alpha}$		flight test probe incidence angle in α - plane relative to FRL, deg.
$i_{f\beta}$		flight test probe incidence angle in β - plane relative to FRL, deg.
M	MACH	freestream Mach no.
P_{A1}	PA1	right ADS lower angle of attack pressure, psia
P_{A2}	PA2	right ADS upper angle of attack pressure, psia
P_{AB}	PAB	flight test boom angle of attack pressure, psia
P_{BB}	PBB	flight test boom angle of sideslip pressure, psia

NOMENCLATURE (Continued)

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
	DPACL	ADP total pressure decrement, $(P_{TL} - P_T)/(P_{TL} - P_{SL})$
	DPML	ADP static pressure decrement, $(P_{SL} - P_{S_\infty})/(P_{TL} - P_{SL})$
	Q*L/QC	ADS measured dynamic pressure ratioed to freestream compressible dynamic pressure, $(P_{TL} - P_{S_\infty})/q_{C_\infty}$
	QCL/QC	ratio of ADP to compressible dynamic pressure $(P_{TL} - P_{SL})/q_{C_\infty}$
	ACL/PT	ratio of ADP total to tunnel stagnation pressure, P_{TL}/P_T
	PML/P	ratio of ADP static to freestream static pressure, P_{SL}/P_{S_∞}
	Q*F/QC	ratio of flight test boom measured dynamic pressure to freestream compressible dynamic pressure, q_f/q_{C_∞}
	QCF/QC	ratio of flight test boom measured compressible dynamic pressure to freestream compressible dynamic pressure, q_{C_f}/q_{C_∞}
$C_{P_{AB}}$	CPAB	flight test boom angle of attack pressure coefficient
$C_{P_{BB}}$	CPBB	flight test boom angle of sideslip pressure coefficient
$C_{P_{SB}}$	CPSB	flight test boom static pressure coefficient
$C_{P_{SL}}$	CPSL	left ADP static pressure coefficient
$C_{P_{TB}}$	CPTB	flight test boom total pressure coefficient

NOMENCLATURE (Continued)

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
P_{MADEC}	PMADEC	ADS static pressure decrement
P_{MFDEC}	PMFDEC	flight test boom static pressure decrement
P_{SB}	PSB	flight test boom static pressure, psia
P_{SL}	PSL	left ADP static pressure, psia
$P_{S_{\infty}}$	P	freestream static pressure, psia or PSF
P_{TADEC}	PTADEC	ADP total pressure decrement
P_{TB}	PTB	flight test boom total pressure
P_{TFDEC}	PTFDEC	flight test boom total pressure decrement
P_{TL}	PTL	left ADP total pressure, psia
$P_{T_{\infty}}$	PT, PO	freestream total pressure, psia or PSF
q_A	Q*L	ADS measured dynamic pressure, psia or PSF
q_{CA}	QCL	ADS measured compressible dynamic pressure, psia or PSF
q_{CF}	QCF	flight test boom measured compressible dynamic pressure, psia or PSF
$q_{C_{\infty}}$	QC	freestream compressible dynamic pressure, psia or PSF
q_f	Q*F	flight test boom measured dynamic pressure, psia or PSF
q_{∞}	Q, Q(PSF)	freestream dynamic pressure, psia or PSF
RAF	RAF	flight test boom α - pressure parameter
RAX	RAX	ADS pressure parameter
RBF	RBF	flight test boom β - pressure parameter
Xo	XO	orbiter longitudinal coordinate, inches

NOMENCLATURE (Concluded)

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
Y _o	YO	orbiter lateral coordinate, inches
Z _o	ZO	orbiter vertical coordinate, inches
α	ALPHA	freestream angle of attack, deg.
α_{ADS}		ADS measured angle of attack, deg.
α_f	ALF	flight test boom measured angle of attack, deg.
β	BETA	freestream sideslip angle, deg.
β_f	BLF	flight test boom measured angle of sideslip, deg.
	PTF/PT	ratio of flight test boom total to freestream total pressure, $P_{TB}/P_{T\infty}$
	PMF/P	ratio of flight test boom static to freestream static pressure, $P_{SB}/P_{S\infty}$
α_f/α	ALF/A	flight test probe angle of attack/model angle of attack
β_f/β	BLF/B	flight test probe angle of sideslip/model angle of sideslip
$T_{t\infty}$	TTF	freestream total temperature, °F
	PREF	scanivalve reference pressure, lb/ft ²
ϕ_N	PHI-N	roll angle with respect to the normal operating condition of FTP, degrees
	TPSGAP	orbiter tile gaps
	TAPNO	pressure tap number
	RN/L	Reynolds number per unit length, millions per foot

REMARKS

The data from both left and right Air Data Probes indicated that the probes were not at the same incidence angle. Incidence angles of the ADP were measured and the results are listed below:

Left hand

-4.679°

Right hand

-8.897°

The coordinates of the tip for each of the Air Data Probes was as follows:

Left hand

$X_o = 28.682$

$Y_o = -5.200$

$Z_o = 32.014$

Right hand

$X_o = 28.700$

$Y_o = 5.188$

$Z_o = 31.888$

The incidence and yaw of the nose boom support tube was found to be:

$i_{f\alpha} = -5.00^\circ$

$i_{f\beta} = -0.06^\circ$

CONFIGURATIONS INVESTIGATED

The orbiter forebody model 57-0 is a 0.10 scale replica of the orbiter preliminary vehicle 102 forebody. The orbiter lines are duplicated from the nose back to fuselage Station 670. Aft of Station 670 the model is ogive faired to the support sting. The thermal protection system (TPS) tiles are simulated on the outer surface of the model to fuselage Station 600.

The configurations investigated were as follows: the orbiter forebody with TPS tiles alone; the orbiter forebody with TPS tiles in a slightly modified configuration; the orbiter forebody, TPS, with Air Data Probes (ADP) and the orbiter forebody ADP, flight test nose boom with modified TPS and TPS flight configuration. The following nomenclature was used:

TPS = B₇₂C₁₅
TPS + ADP = B₇₂C₁₅PR₇PR₈
TPS (MOD) + ADP = B₇₂C₁₅PR₇PR₈
TPS (MOD) + ADP = B₇₂C₁₅PR₄PR₇PR₈
+ nose boom
TPS + ADP = B₇₂C₁₅PR₄PR₇PR₈
+ nose boom

Component

B₇₂ Orbiter forebody with thermal protection system (TPS), model drawing SS-A01618
C₁₅ Orbiter forebody canopy, model drawing SS-A01615

CONFIGURATIONS INVESTIGATED (Concluded)

Component

- PR₄ Flight test nose boom, model drawing SS-A01664
- PR₇ Left Air Data Probe, Rosemount Drawing No. 00856-1913,
00859 - 0108, Rockwell International model drawing
SS-A01614
- PR₈ Right Air Data Probe, (same drawings as left probe).

INSTRUMENTATION

Force data were obtained to provide deflections and corrections to angle of attack, but were not used for any analysis. The orbiter forebody was instrumented with 41 pressures. The left Air Data Probe contained a total and static pressure while the right Air Data Probe had lower and upper static pressures. The flight test nose boom was instrumented with 4 pressures (total, static, α sensor and β sensor).

TEST FACILITY DESCRIPTION

The Ames 14-Foot Transonic Wind Tunnel was created by extensive modification of the former Ames 16-Foot High Speed Wind Tunnel. It has an adjustable, flexible-wall nozzle and the test section is slotted on all four sides to permit transonic testing. The air circuit is closed except for the air exchanger, in a low-speed section of the circuit, which is controlled to maintain the air temperature within suitable limits.

The air is driven by a three-stage, axial-flow compressor powered by three electric motors mounted in tandem outside the wind tunnel. The drive system is rated 110,000 horsepower continuously or 132,000 horsepower for one hour. The speed of the motors is continuously variable over the operating range.

Performance:

Mach number	0.6 to 1.2, continuously variable
Pressure, stagnation, atm	1.0
Reynolds number, per ft	2.8×10^6 to 4.2×10^6
Temperature, stagnation	Controllable over limited range by throttling the air exchanger. Generally about 640° R to avoid condensation of moisture in the test section.

Dimensions:

Test section height, ft	13.50
Test section width, ft	13.71 at upstream end 13.92 at downstream end
Test section length, ft	33.75

DATA REDUCTION

Six component balance data were obtained to provide corrections to angle of attack and yaw, no aerodynamic coefficient data were computed.

Pressure data were reduced to pressure coefficient form. Air Data Probes and nose boom pressures required special reduction methods.

Flight test probe data were used to calculate probe measured angles of attack and sideslip and other probe parameters as follows:

$$\alpha_F = f_{\alpha F}(\text{RAF}) - i_{F\alpha}$$

$$\beta_F = f_{\beta F}(\text{REF}) - i_{F\beta}$$

where:

$$\text{RAF} = \frac{(P_{AB} - P_{SB})/q_{\infty}}{(P_{TB} - P_{SB})/q_{\infty}}$$

$$\text{REF} = \frac{(P_{BB} - P_{SB})/q_{\infty}}{(P_{TB} - P_{SB})/q_{\infty}}$$

$$i_{F\alpha} = \begin{array}{l} \text{probe incidence to FRL in } \alpha \text{ plane} \\ = -5.00^\circ \end{array}$$

$$i_{F\beta} = \begin{array}{l} \text{probe incidence to FRL in } \beta \text{ plane} \\ = -0.06^\circ \end{array}$$

$$f_{\alpha F} = \begin{array}{l} \text{relationship between } \alpha_F \text{ and RAF varying as} \\ \text{a function of } \beta_F \text{ and Mach number; results of} \\ \text{Rosemount Corp. calibration of the flight} \\ \text{test probe as given in Reference 2; used in} \\ \text{Dataman computer routine which simultane-} \\ \text{ously solved for } \alpha_F \text{ and } \beta_F \text{ by first inter-} \\ \text{polating the calibration to the appropriate} \\ \text{Mach no., then used RAF and } f_{\alpha F} \text{ in con-} \\ \text{junction with REF and } f_{\beta F} \text{ in an iterative} \\ \text{process to converge on a solution for } \alpha_F \\ \text{and } \beta_F. \text{ Since the available calibration tables} \\ \text{for the FTP only included Mach numbers through} \\ \text{.7, the angles of attack and sideslip for the} \\ \text{FTP were not calculated for the data above} \\ \text{Mach .7.} \end{array}$$

DATA REDUCTION (Continued)

f_{β_F} = relationship between β_F and RBF varying as a function α_F and Mach number; results of Rosemount Corp. calibration of the flight test probe; used in conjunction with f_{α_F} as described above.

Additional flight test probe parameters calculated were:

$$P_{TF_{DEC}} = \frac{(P_{TB} - P_{T\infty})}{(P_{TB} - P_{SB})}$$

$$P_{MF_{DEC}} = \frac{(P_{SB} - P_{S\infty})}{(P_{TB} - P_{SB})}$$

$$\frac{q_f}{q_{C\infty}} = \frac{(P_{TB} - P_{S\infty})}{q_{C\infty}}$$

$$\frac{q_{Cf}}{q_{C\infty}} = \frac{P_{TB} - P_{SB}}{q_{C\infty}}$$

where:

$$q_{C\infty} = \begin{cases} \left[\left(1 + \frac{M_\infty^2}{5} \right)^{7/2} - 1 \right] P_{S\infty}, & \text{at } M_\infty < 1.0 \\ \left[\left(\frac{6M_\infty^2}{5} \right)^{7/2} \left(\frac{6}{7M_\infty^2 - 1} \right)^{5/2} - 1 \right] P_{S\infty}, & \text{at } M_\infty \geq 1.0 \end{cases}$$

The following ratios were also calculated:

$$\alpha_F/\alpha \quad \beta_F/R \quad P_{TR}/P_T \quad P_{CU}/P_C$$

DATA REDUCTION (Concluded)

Air data system probe data were reduced to provide probe measured angle of attack as follows:

$$R_{AX} = \left[\frac{(P_{A1} - P_{A2})}{\left(\frac{P_{TL} - P_{A1}}{2} + \frac{P_{A1} - P_{A2}}{2} \right)} \right]$$

where:

P_{A1}, P_{A2} = data measured for right probe; right probe data with sign on β reversed used for left probe.

The following probe parameters were calculated:

$$P_{TA_{DEC}} = \frac{(P_{TL} - P_{T\infty})}{(P_{TL} - P_{SL})}$$

$$P_{MA_{DEC}} = \frac{(P_{SL} - P_{S\infty})}{(P_{TL} - P_{SL})}$$

$$\frac{q_A}{q_{C\infty}} = \frac{P_{TL} - P_{S\infty}}{q_{C\infty}}$$

$$\frac{q_{CA}}{q_{C\infty}} = \frac{(P_{TL} - P_{SL})}{q_{C\infty}}$$

The following ratios were computed:

$$P_{TL}/P_{T\infty}, P_{SL}/P_{S\infty}$$

REFERENCES

1. Thornton, D. E., "Pretest Information for Tests OA220 and OA221 B/C of the 0.010 Scale (57-0) Orbiter Forebody Model in the NASA/ARC 14 foot Transonic Wind Tunnel and the UPWT 9x7 and 8x7 Supersonic Wind Tunnels," Rockwell Report No. SD75-SH-02, October 23, 1975.
2. "(R) Recalibration of 0.36-Scale Model of the 92AF Flight Test Air Data Boom for Use Ahead of a 0.36-Scale Model of the Space Shuttle Orbiter," Rosemount Report 117525, Dated November 21, 1975.
3. "(R) Transonic Static Pressure Calibration of 0.2-Scale Wind Tunnel Model 00859-0109 of Rosemount Model 859P Air Data Sensor," Rosemount Report 17616; Revision A, Dated January 31, 1976.
4. IL, SAS/AERO/75-383, "Design Information for the 0.10 Scale Forebody Only Orbiter Model (57-0)," dated June 26, 1975.
5. IL, SAS/AERO/75-520; "Revised Design Requirements for the 0.10 Scale Forebody Only Orbiter (58-0), Wind Tunnel Tests OA220, OA221 B, C," dated August 20, 1975.
6. IL, SAS/WTO/75-281, "Model Design Requirements for the 0.10 Scale Model 57-0 Air Data Probe Forebody," dated July 15, 1975.
7. IL, SAS/WTO/75-281 (Addendum #1), "Additional Design Requirements for 0.10 Scale Orbiter Forebody, Model 57-0," dated July 30, 1975.
8. IL, SAS/WTO/75-281 (Addendum #2), "Revised Model Design Requirements for the 0.10 Scale Orbiter Forebody, Model 57-0," dated August 25, 1975.
9. NA-75-658, "Structural Analysis of the 0.10 Scale SSV Air Data Probe Forebody Model (57-0)," dated September 23, 1975.
10. Model Drawings:
 - SS-A01610, Installation - Ames 14 Foot Transonic Wind Tunnel, 0.10 Scale Model 57-0.
 - SS-A01611, Installation - Ames Unitary Plan Wind Tunnel, 0.10 Scale Model 57-0.
 - SS-A01612, Fuselage - Detail and Assembly 0.10 Scale Forebody Model 57-0.

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- SS-A01613, Sleeves and Pins, 0.10 Scale Model 57-0.
- SS-A01614, Thruster and Air Data Probe, 0.10 Scale Forebody Model 57-0.
- SS-A01615, Windshield - Canopy, 0.10 Scale Model 57-0.
- SS-A01616, Instrumentation, 0.10 Scale Model 57-0.
- SS-A01617, Nose Boom - Pitot/Static Tube Assembly, 0.10 Scale Model 57-0.
- SS-A01618, Tile Definition, 0.10 Scale Model 57-0.
- W-11485, Sting, 5" Diameter Adj. Bent, 4.0 MK IV Task Bal. to Ames 4.5 Unitary Taper.
- SS-A01664, Details and Assembly - Flight Test Data Boom - 57-0 Forebody Modification.

TABLE II.

TEST: $\phi A 220$		DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 11/21/75							
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	ϕN	GAP		.4	.6	.7	.8	.85	.9	.95	.98	1.05	1.10
RNL001	TPS	A	0		0.01		1	2	3	4	5	6	9	8	7	
002	TPS(MODIFIED)+ ADP	C	0		0.0			52				51				
003	TPS + ADP	C	0		0.01			50				49				
004		A	2				28	40	41	42	48	46	39	43	44	45
005		A	2					29	30	32	33	36	38	34	35	
006		A	2						31	37	47					
007	TPS(MODIFIED)+	C	0	0	0.0		54	53								
008	ADP + NOSE BOOM	C	0	-90			56	55								
009		C	0	180			57									
010		D	0	180				58								

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TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

ANLXXX DPACL DPML GCL/GCCL/GCACL/PTPML/P CPTL CPSL CPAL CPA2 MACH ALPHA 1.0

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES $\alpha(A) = 0, \pm 2, 4, 6, 8, 10, 12, 16, 20, 24, 10, 0$ $\alpha(C) = 0, \pm 2, 4, 6, 8, 10, 12, 16, 10, 0$

$\alpha(B) = 10, 0$ $\alpha(D) = 0, \pm 2, 4, 6, 8, 10, 12, 16, 10, 0, 16$

RNLXXX PT Q P TTF PREF QC BETA MACH ALPHA 7

FAILXX PTFDEC PTFDEC G/F/QC GCF/QC PTF/PT PMF/P CPTB CPSB CPAB CPBB MACH ALPHA 10

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: B72

GENERAL DESCRIPTION: Forebody, tiled surface

MODEL SCALE: 0.100

DRAWING NUMBER: SS-A01612

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	<u> 747.0 </u>	<u> 74.70 </u>
Max Width	<u> 212.0 </u>	<u> 21.20 </u>
Max Depth	<u> 226.50 </u>	<u> 22.65 </u>
Fineness Ratio (Length/Max. Width)	<u> 3.524 </u>	<u> 3.524 </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> 330.30 </u>	<u> 3.303 </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: C15

GENERAL DESCRIPTION: Canopy

MODEL SCALE: 0.100

DRAWING NUMBER: SS-A01612

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	<u>237.0</u>	<u>23.70</u>
Max Width	<u>194.0</u>	<u>19.40</u>
Max Depth	<u>58.80</u>	<u>5.88</u>
Fineness Ratio	_____	_____
Area - Ft ²	_____	_____
Max. Cross-Sectional	<u>45.60</u>	<u>0.456</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. - MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: PR₄

GENERAL DESCRIPTION: Flight Test Nose Boom

MODEL SCALE: 0.36 Nose Boom and 0.100 Nose Boom Adapter

DRAWING NUMBER: SS-A01664

DIMENSIONS:	FULL SCALE	MODEL SCALE
Overall Length, along centerline to Sta. X ₀ = 23.500 (In.)	<u>218.65</u>	<u>21.865</u>
Max Dia., (Boom), In.	<u>2.0</u>	<u>0.72</u>
Max Dia., (Boom Adapter), In.	<u>8.75</u>	<u>0.875</u>
Angle of Incidence, Deg.	<u>-5.0</u>	<u>-5.0</u>
Area - In ²	<u></u>	<u></u>
Max. Circular Cross-Sectional (Boom)	<u>12.57</u>	<u>1.629</u>
Max. Circular Cross-Sectional (Boom Adapter)	<u>240.5</u>	<u>2.405</u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III. - MODEL DIMENSIONAL DATA (Continued)

MODEL COMPONENT: PR₇

GENERAL DESCRIPTION: Left Hand Air Data Probe

MODEL SCALE: 0.200

DRAWING NUMBER: SS-A01614, Rosemount 00856-1913, 00859-0108

Dimensions are from measurements of the probe.

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Probe tip to sensor base), In.	<u>10.90</u>	<u>2.180</u>
Max. length, In.	<u>14.385</u>	<u>2.877</u>
Max. Dia , In.	<u>1.00</u>	<u>0.200</u>
Max. Height, In.	<u>7.250</u>	<u>1.450</u>
Height, TPS surface to probe centerline, In.	<u>4.975</u>	<u>0.995</u>
Area - In. ²	<u> </u>	<u> </u>
Max. Cross-Sectional (Probe)	<u>0.785</u>	<u>0.0314</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA (Concluded)

MODEL COMPONENT: PR₈

GENERAL DESCRIPTION: Right Hand Air Data Probe

MODEL SCALE: 0.200

DRAWING NUMBER: SS-A01614

Dimensional Data to be supplied later.

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Probe tip to sensor base), In.	<u>10.90</u>	<u>2.180</u>
Max. Length, In.	<u>14.385</u>	<u>2.877</u>
Max. Dia., In.	<u>1.00</u>	<u>0.200</u>
Max. Height, In.	<u>7.250</u>	<u>1.450</u>
Height, TPS surface to probe center-line, In.	<u>4.975</u>	<u>0.995</u>
Area - In. ²	<u> </u>	<u> </u>
Max. Cross-Sectional (Probe)	<u>0.785</u>	<u>0.0314</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

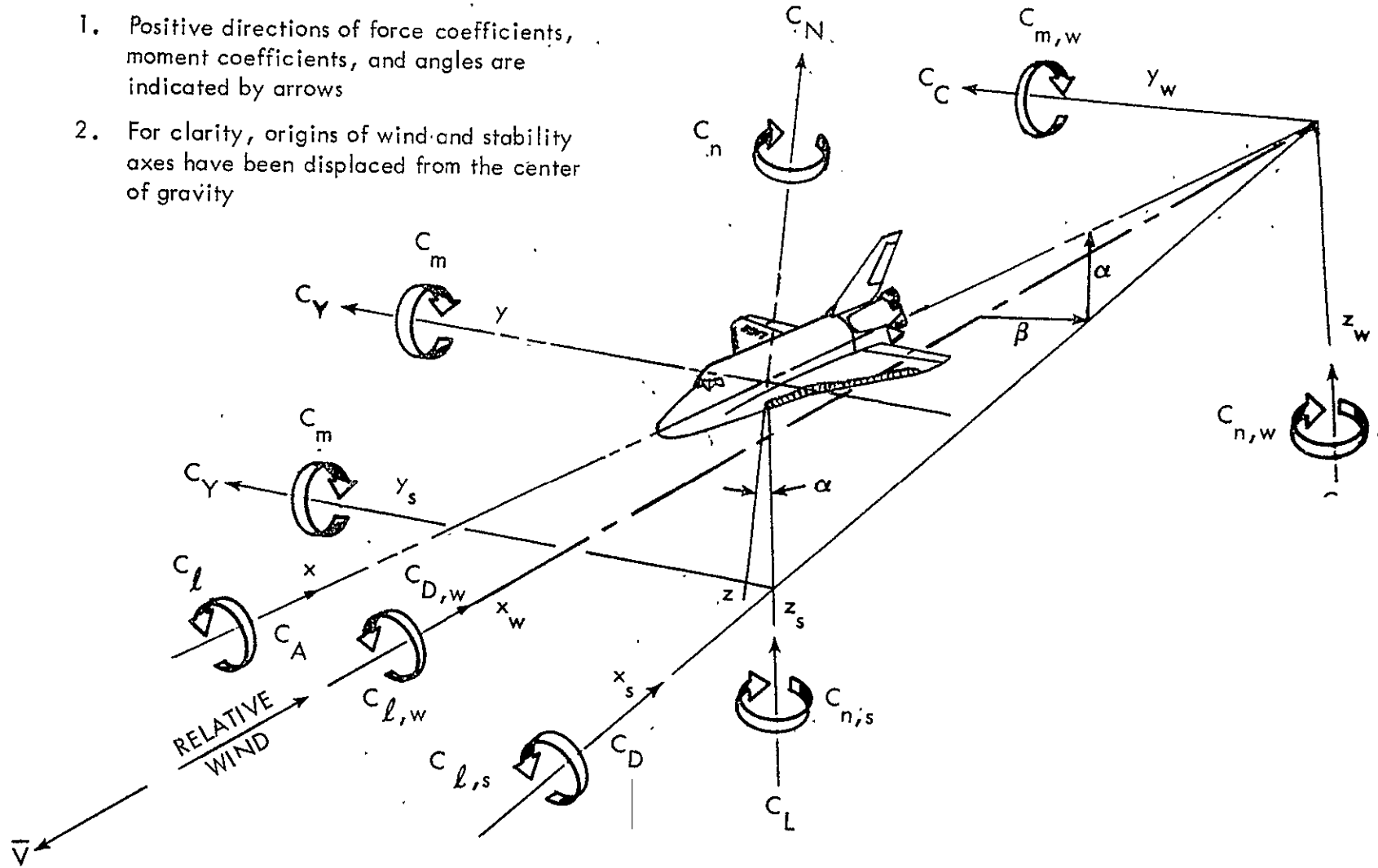
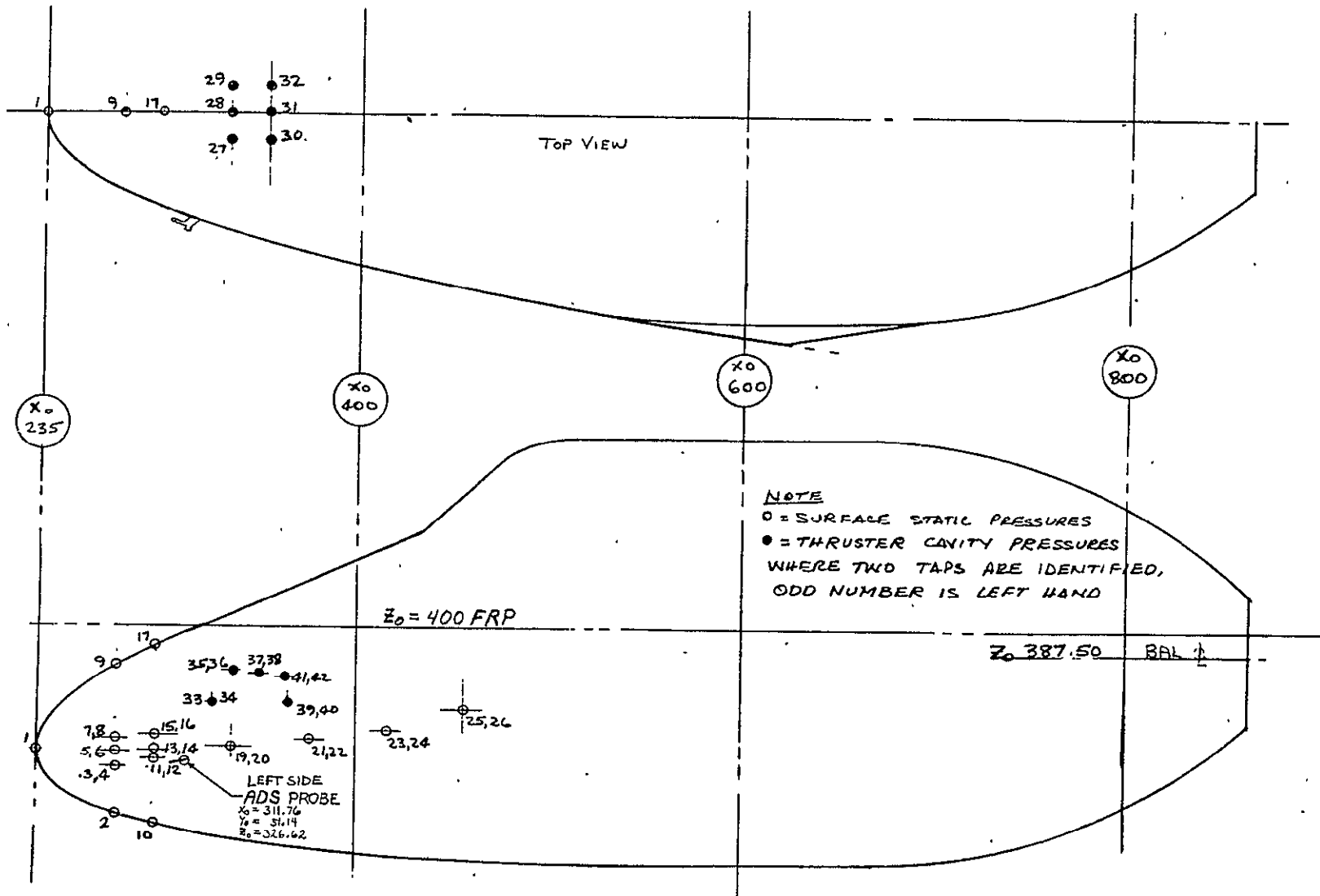


Figure 1. Axis Systems.

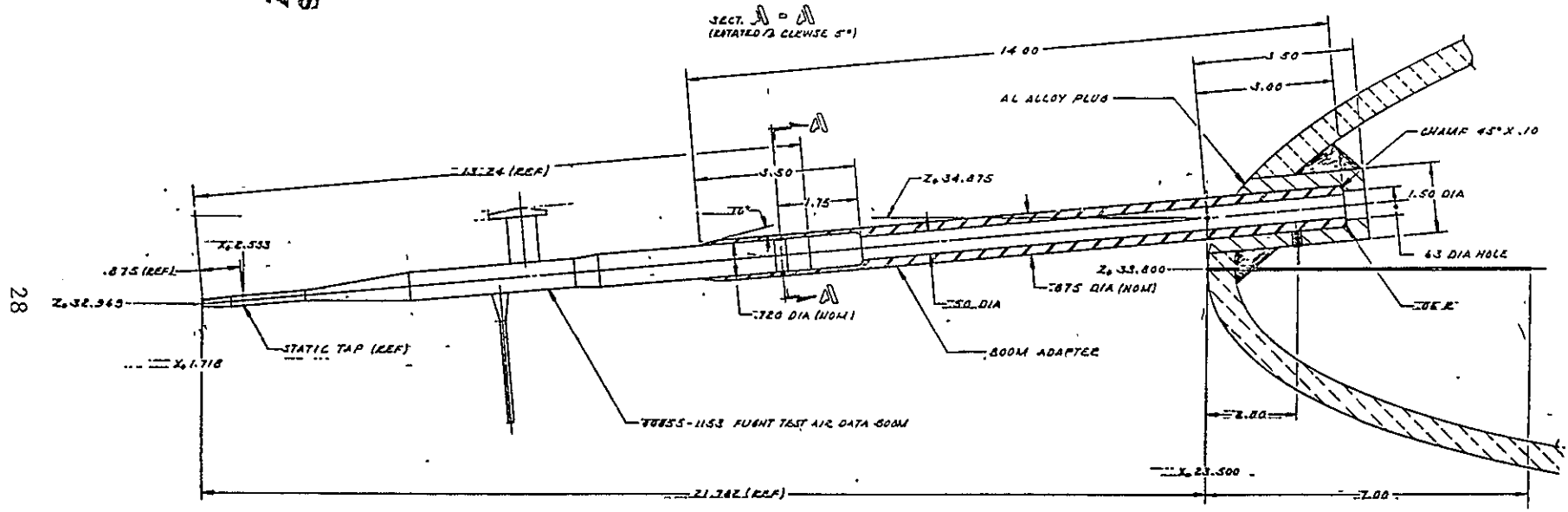
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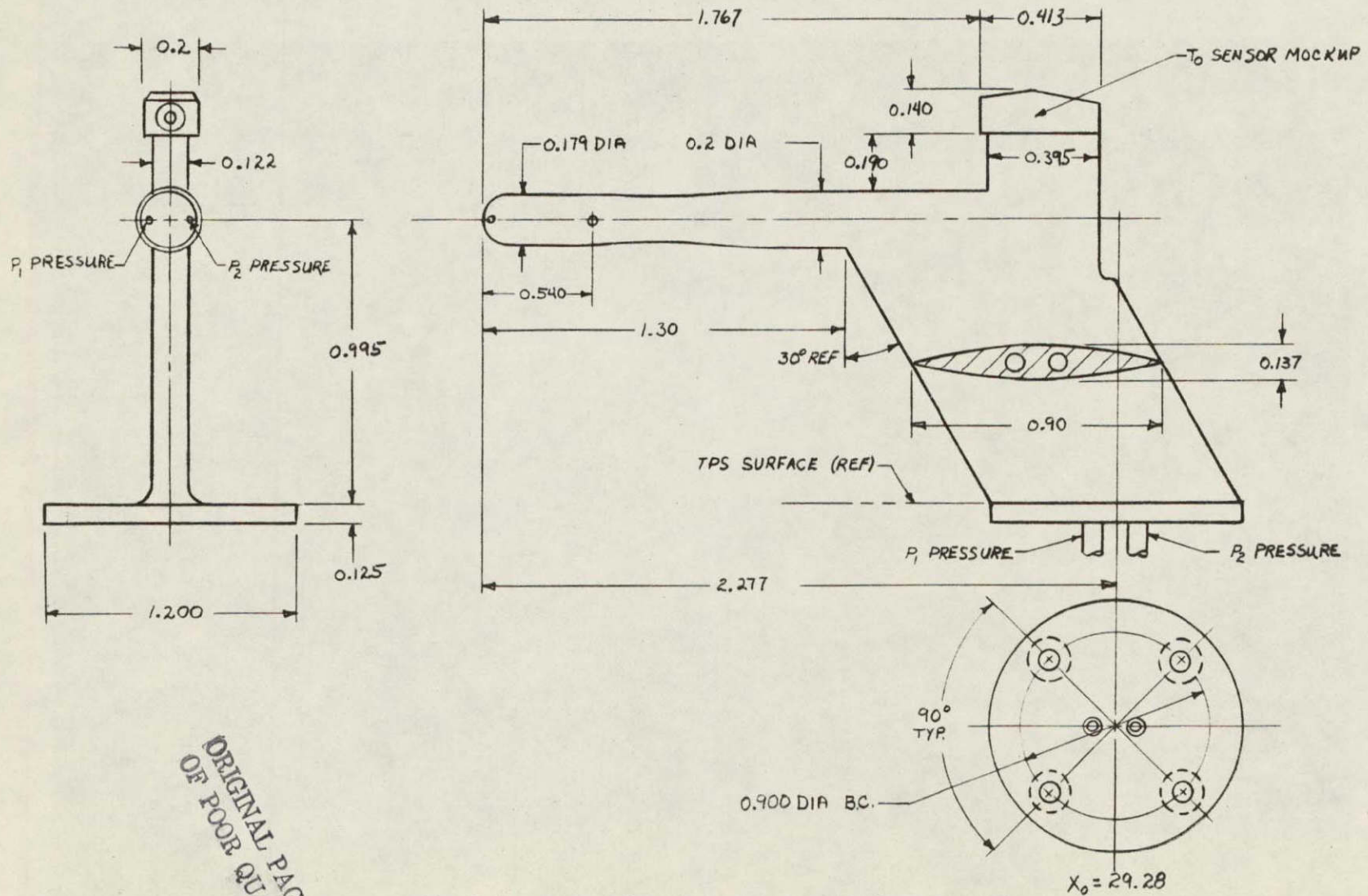


a. Thruster Cavity, Surface Static Pressure Tap and ADS Probe Locations
Figure 2. - Model sketches.

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b. Flight Test Boom Assembly (0.36 Scale)
Figure 2. - Model Sketches.

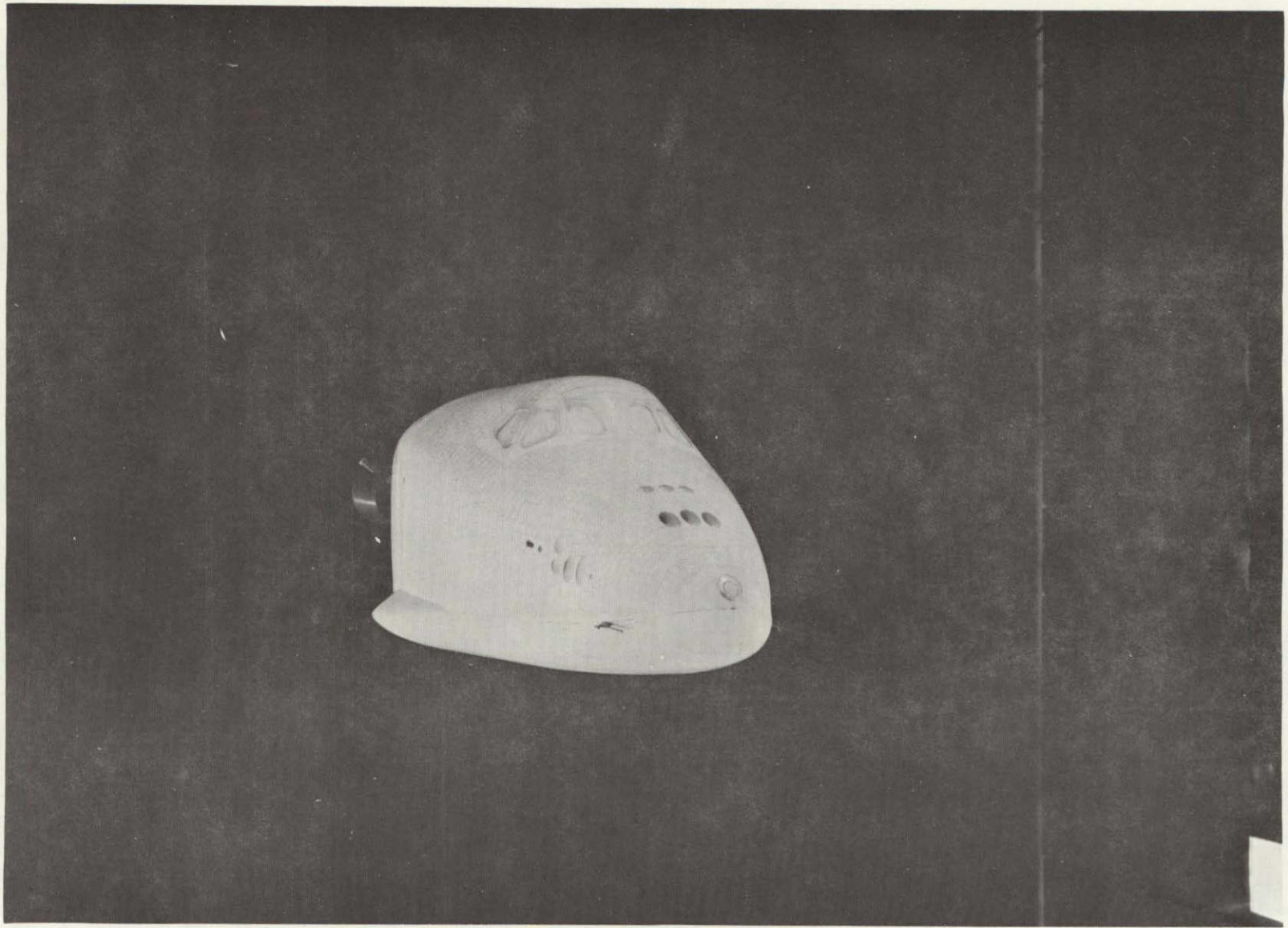


c. Air Data System (ADS) Probe Detail (0.2 Scale)
Figure 2. - Model Sketches.

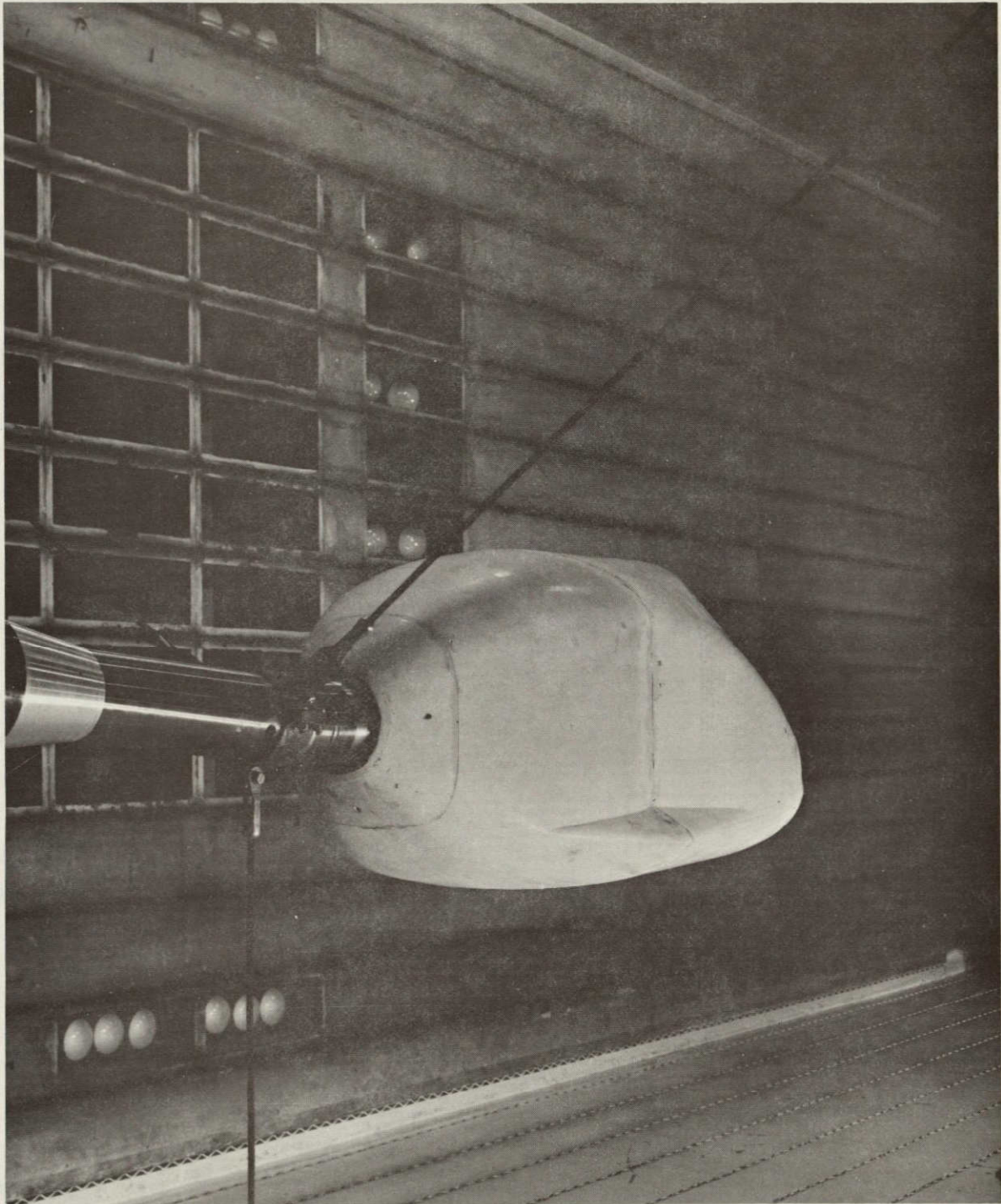
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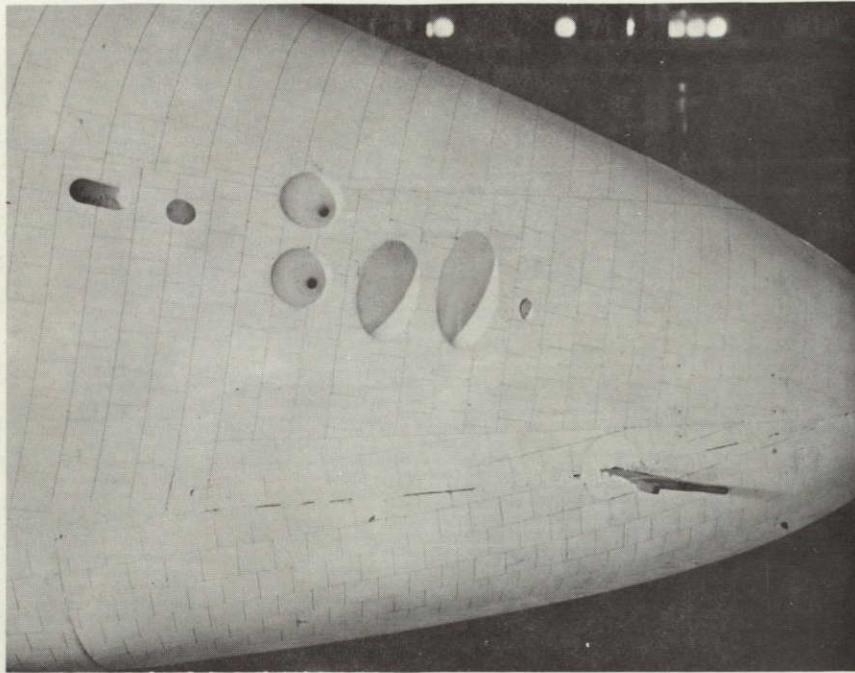
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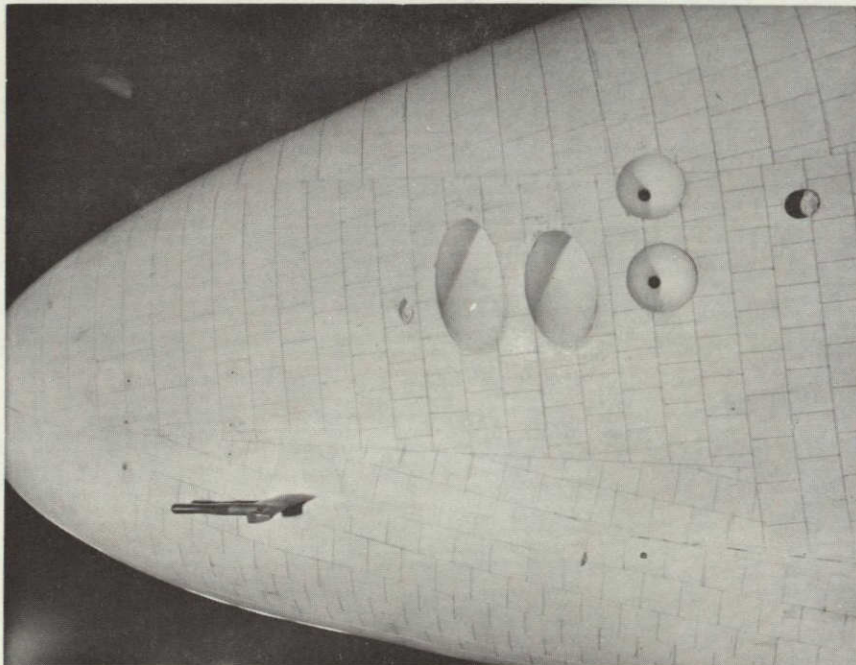
a. Three-Quarter Front View of Model 57-0 in the ARC 14 foot Wind Tunnel
Figure 3. - Model photographs.



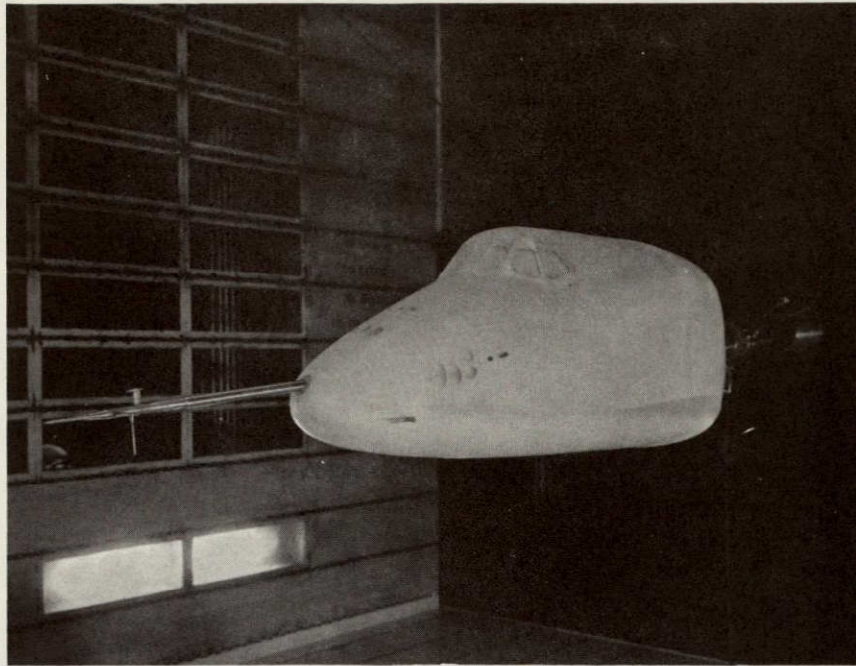
b. Three-Quarter Rear View of Model 57-0 in the ARC 14 foot Wind Tunnel
Figure 3. - Model Photographs.



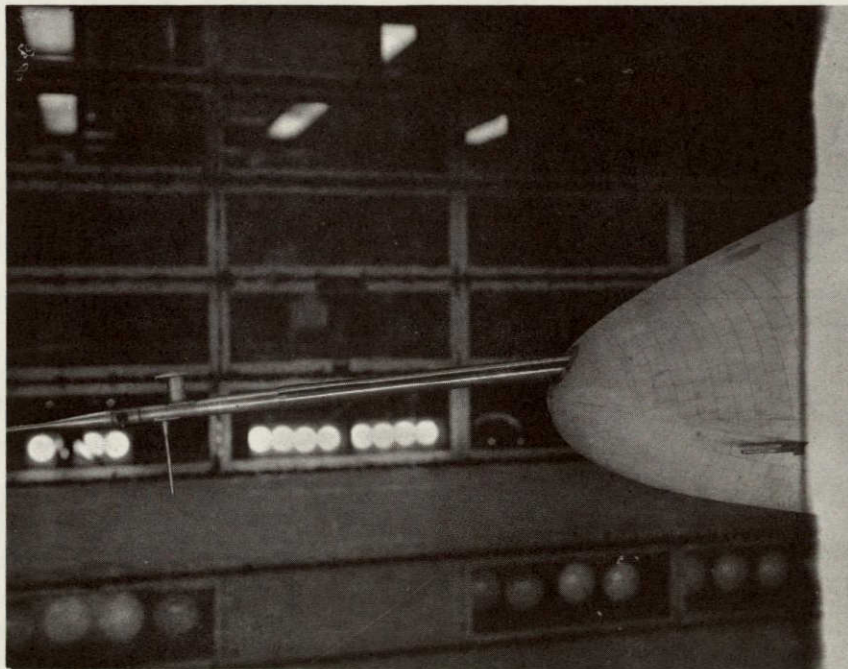
c. Right ADS Probe Alpha Sensor



d. Left ADS Probe Pitot/Static Sensor
Figure 3. - Model Photographs.



e. Three-Quarter Front View of Model Showing Nose Boom



f. Side View of Nose Boom
Figure 3. - Model Photographs.

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CONFIGURATIONS INVESTIGATED (Concluded)

Component

- PR₄ Flight test nose boom, model drawing SS-A01664
- PR₇ Left Air Data Probe, Rosemount Drawing No. 00856-1913,
00859 - 0108, Rockwell International model drawing
SS-A01614
- PR₈ Right Air Data Probe, (same drawings as left probe).

DATA FIGURES

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DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

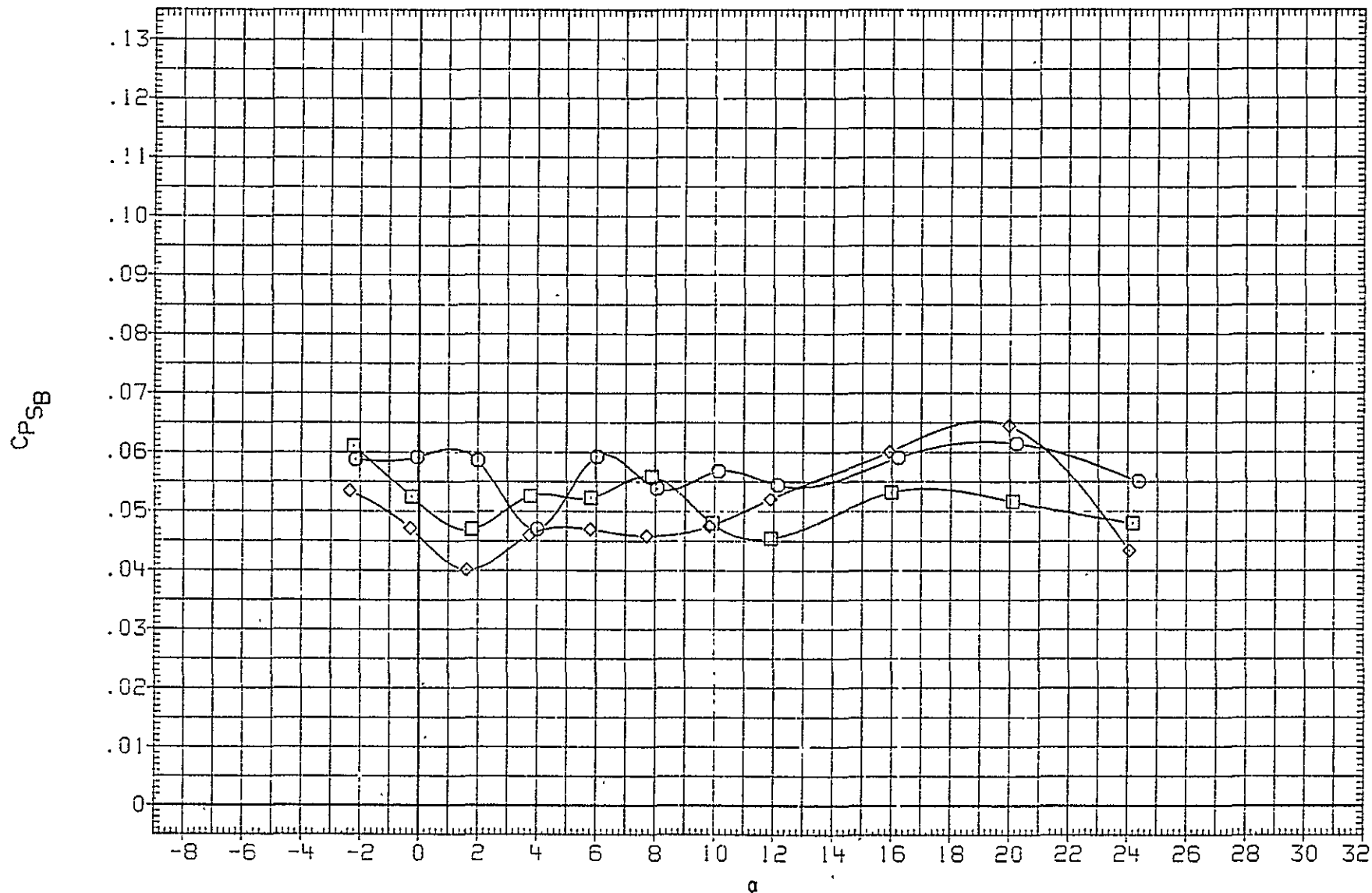


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

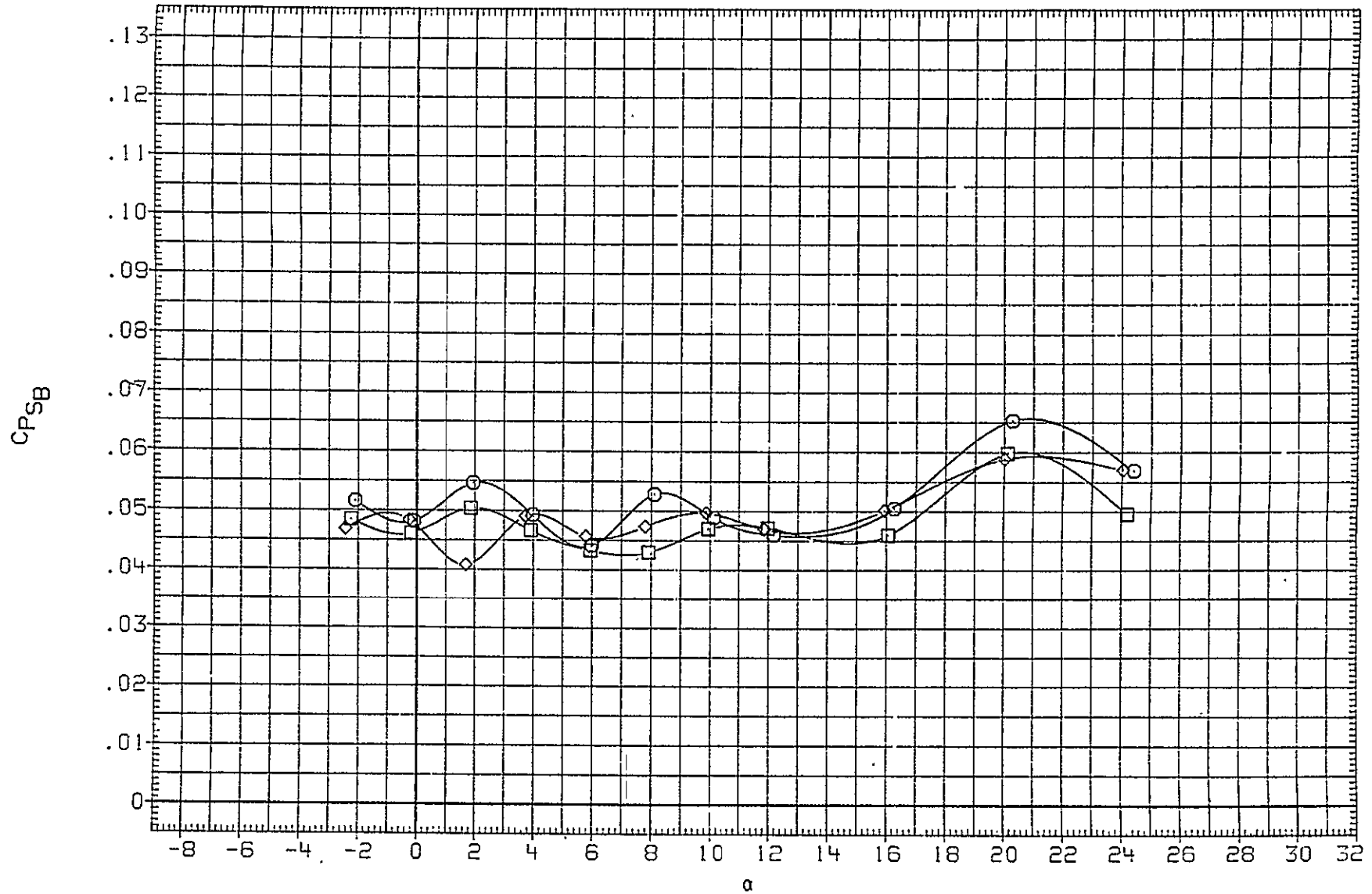


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	FHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

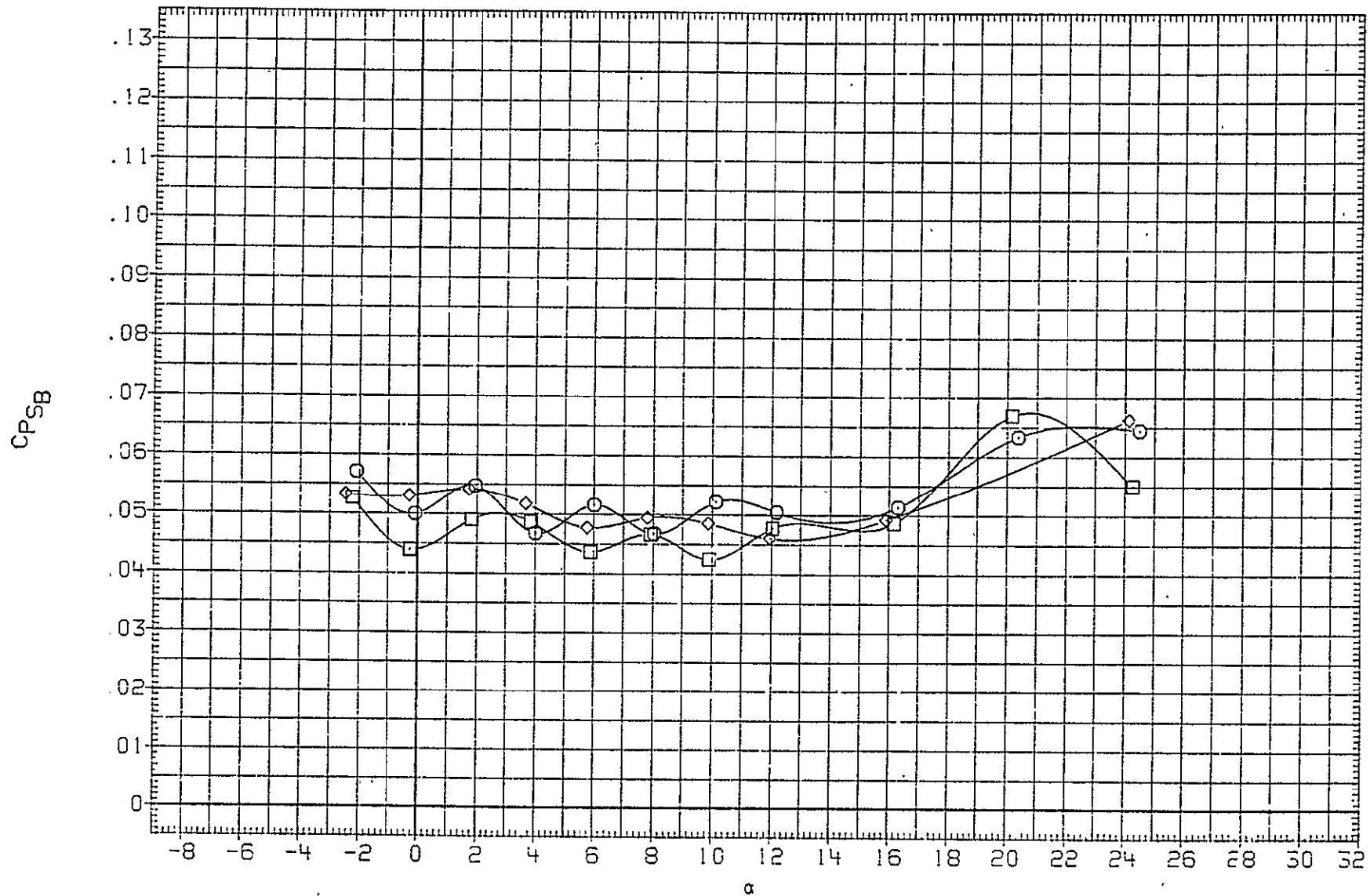


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

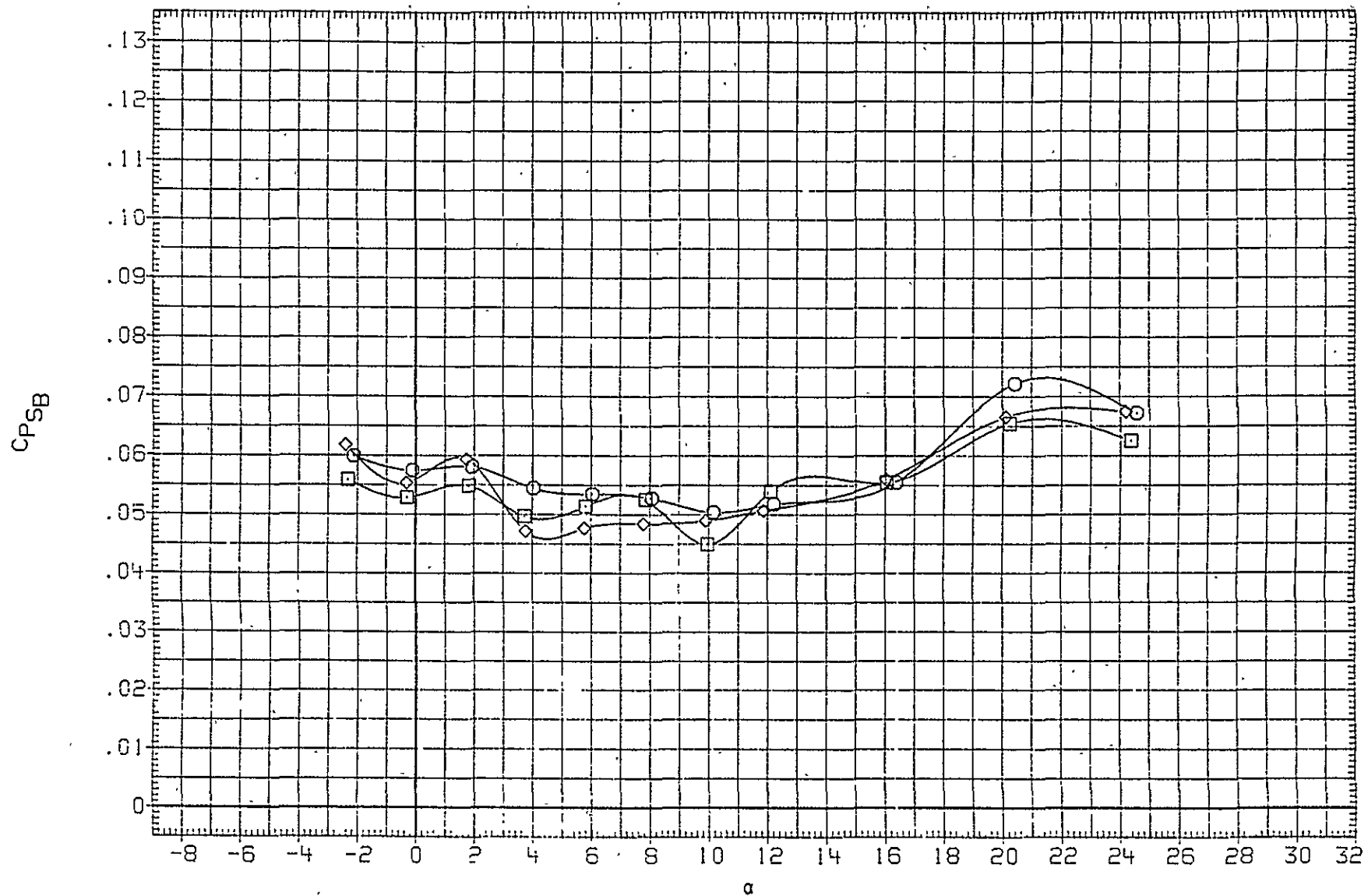


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

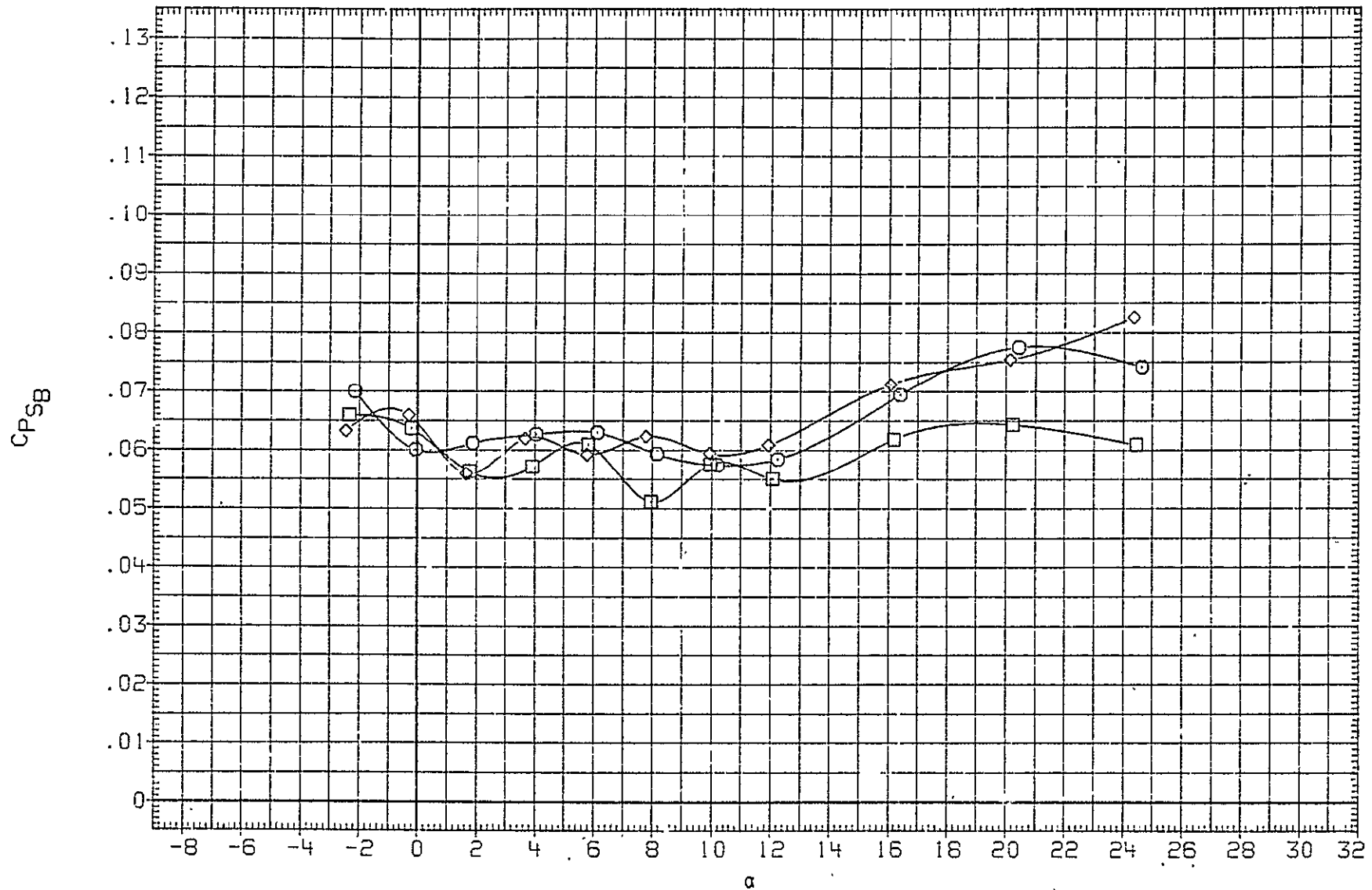


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(E)MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

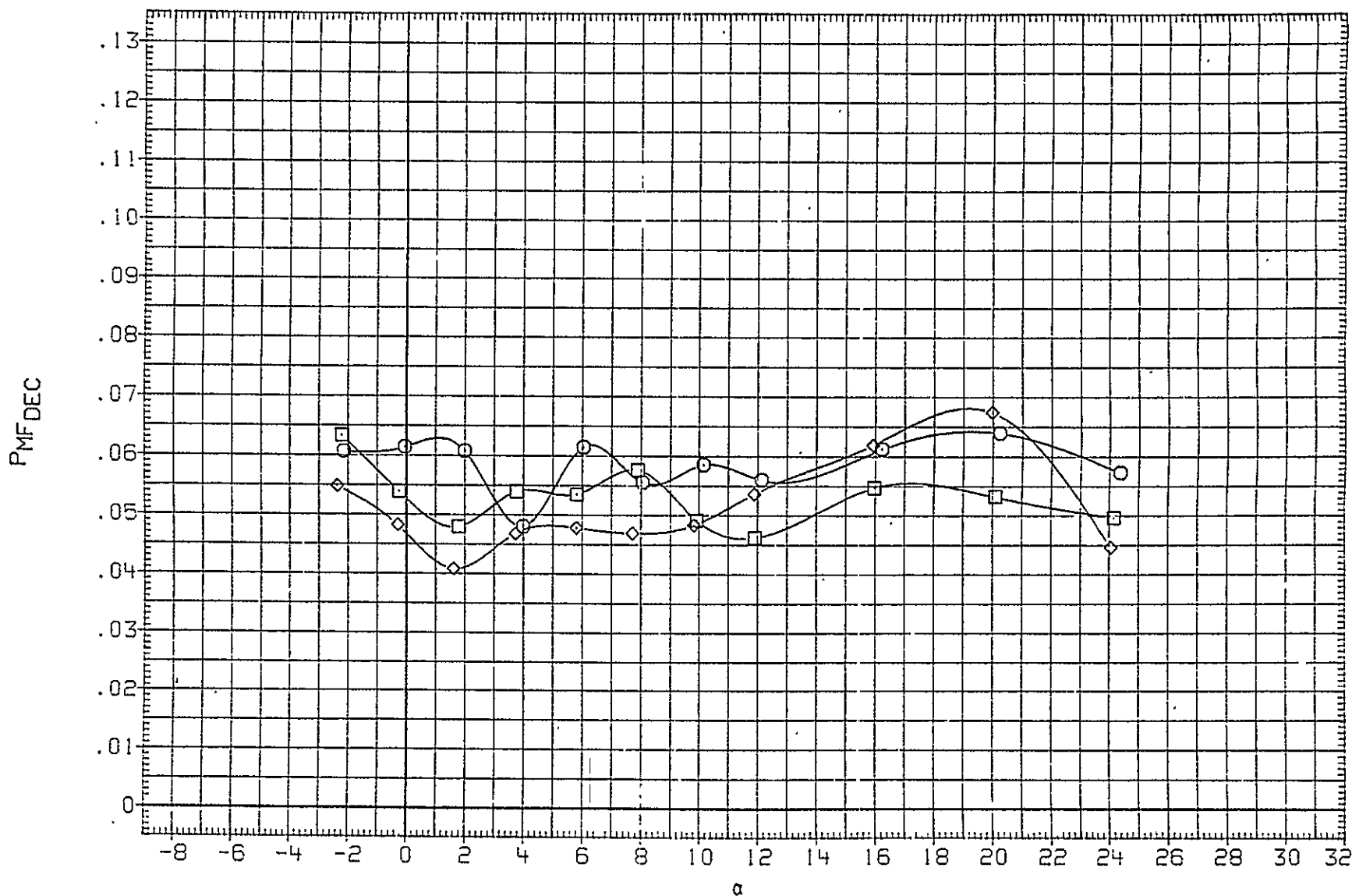


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

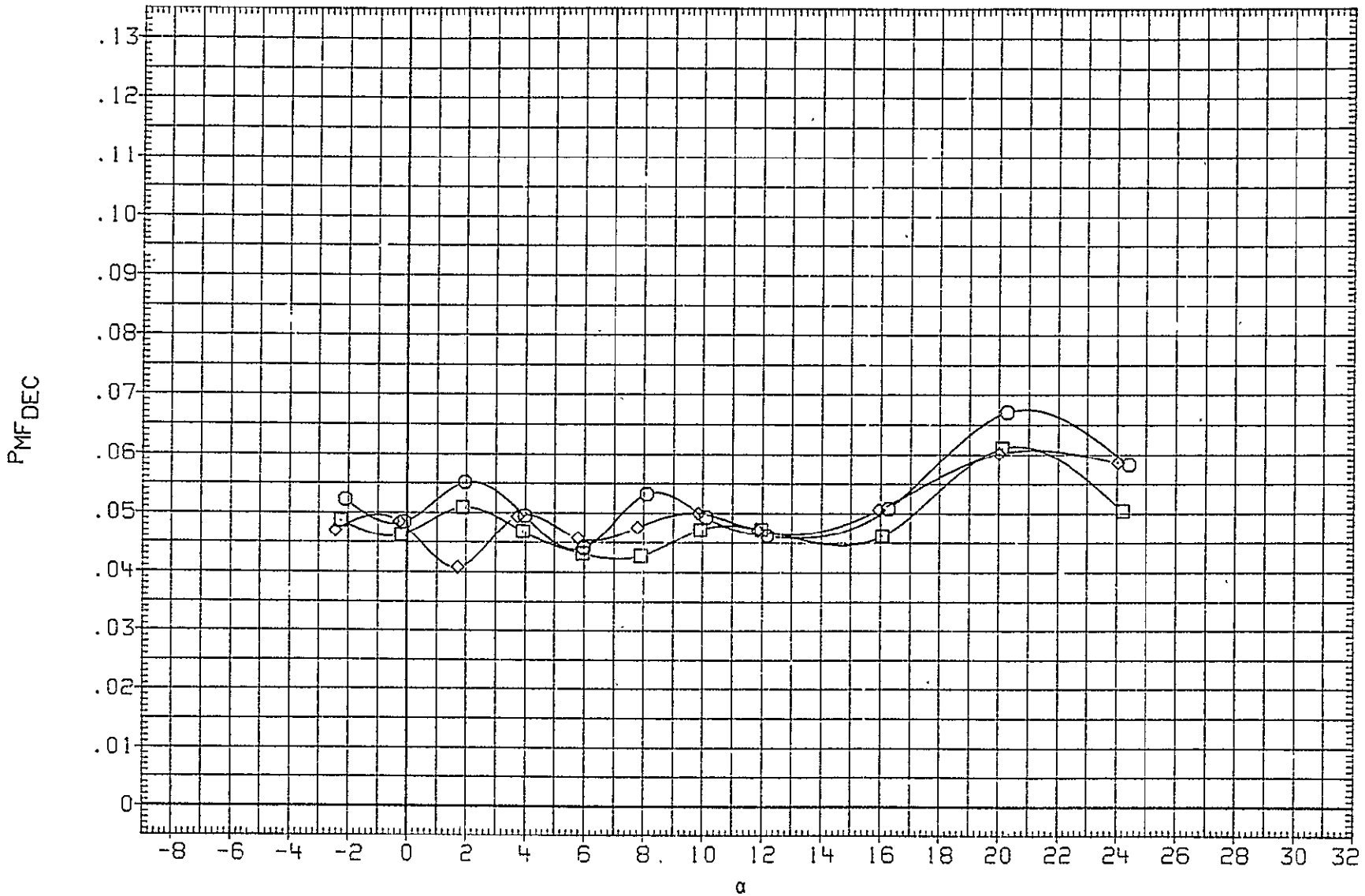


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.2000	.010	.000

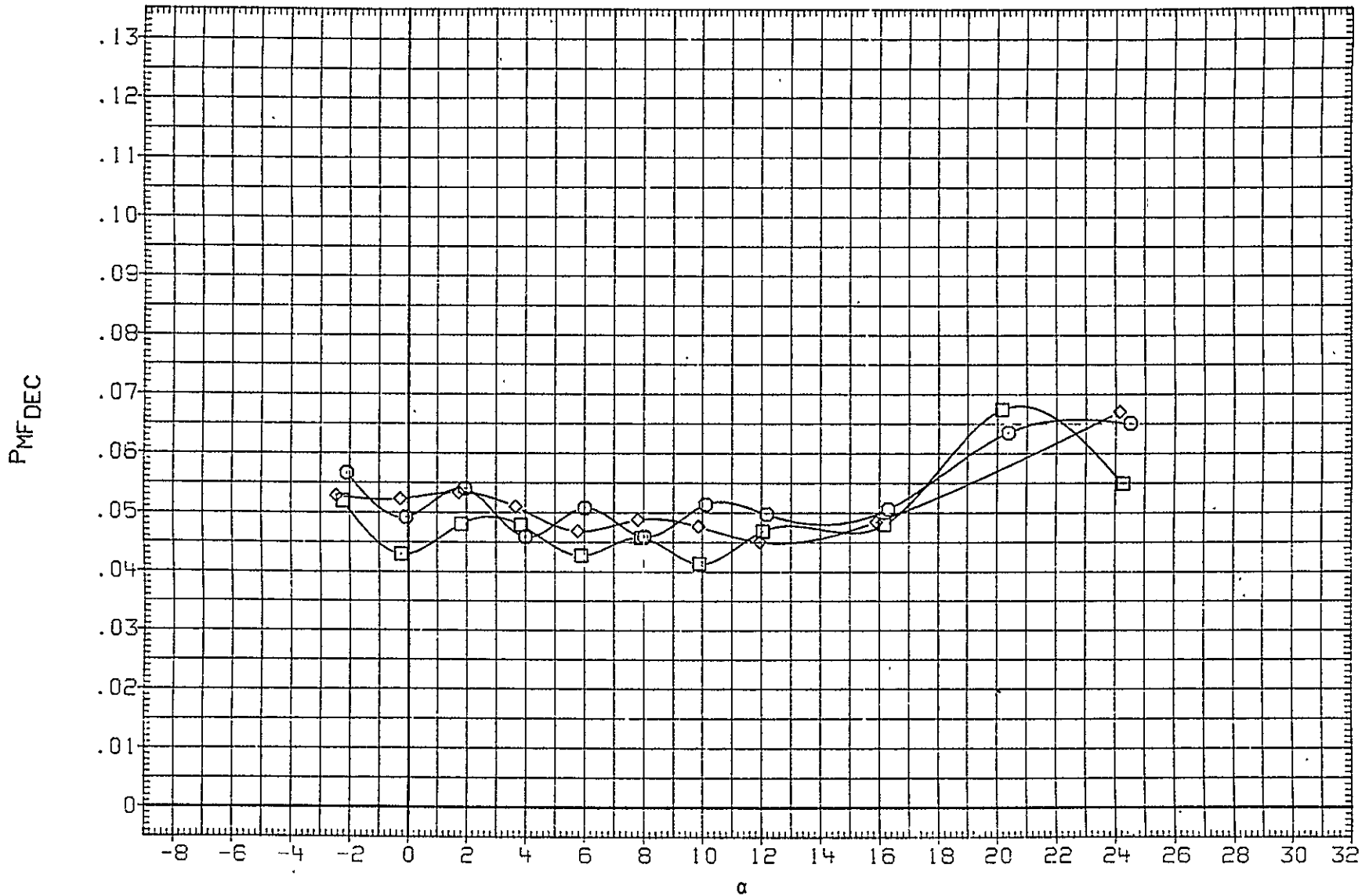


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

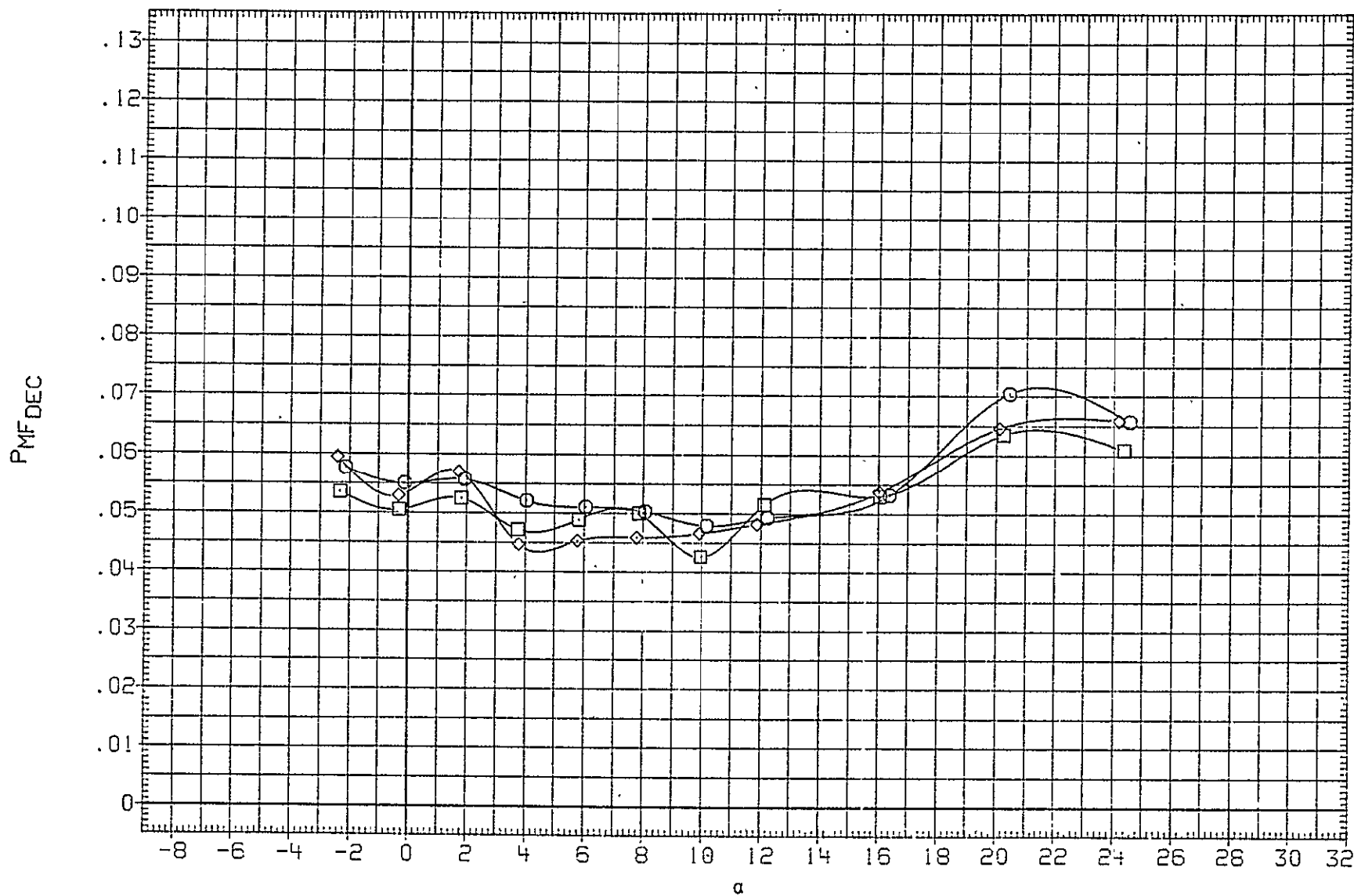


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

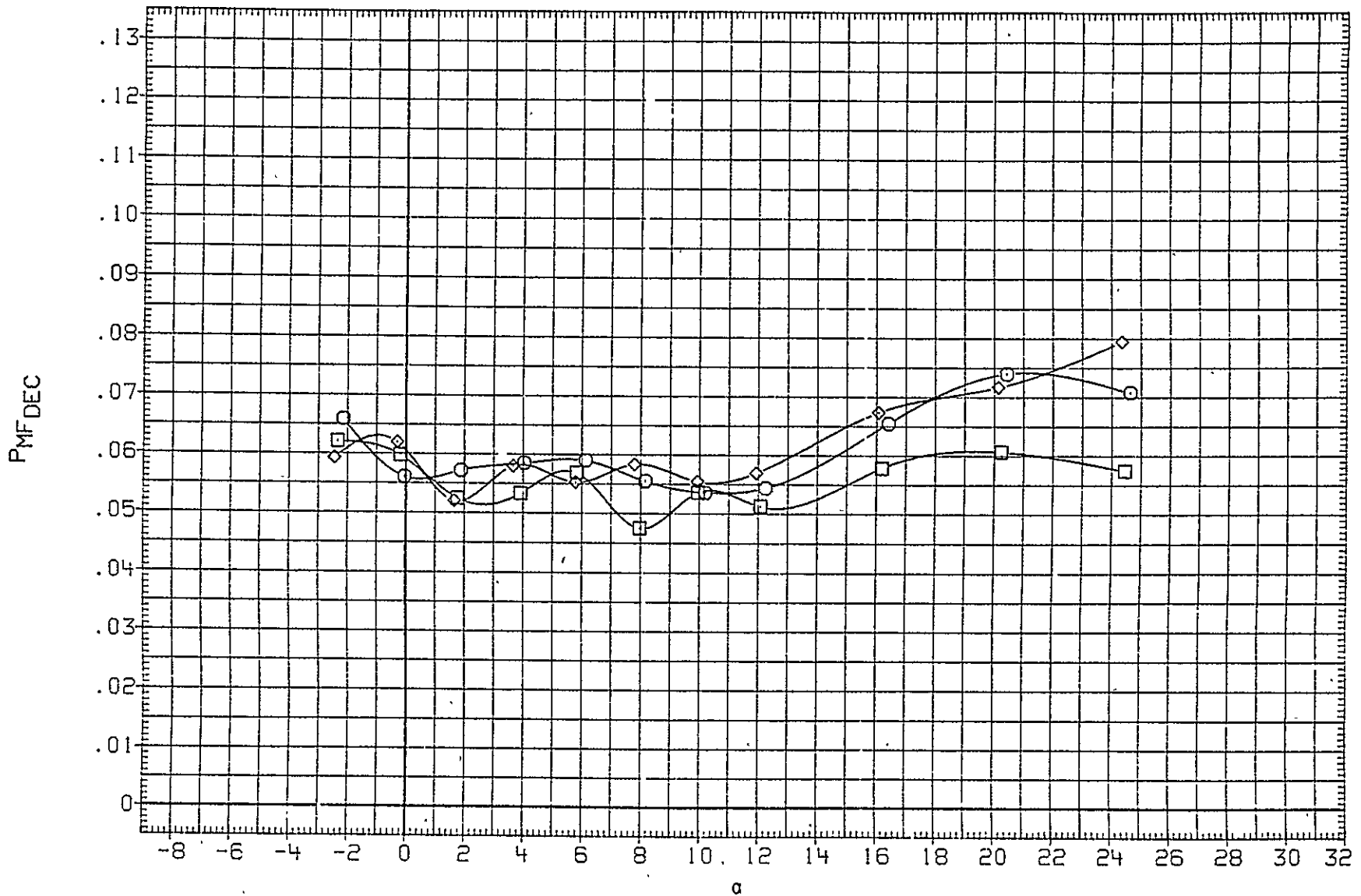


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.000	

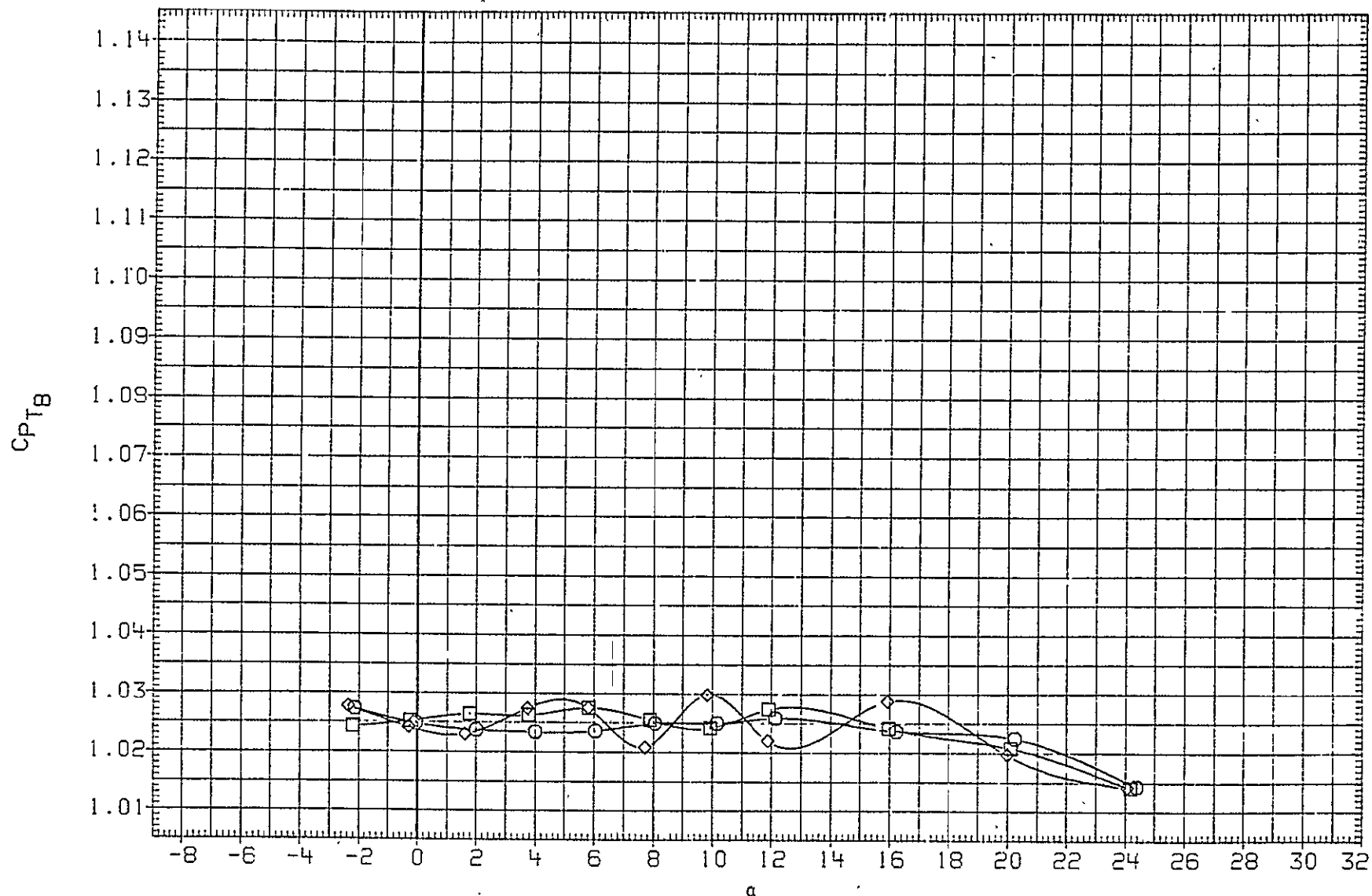


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

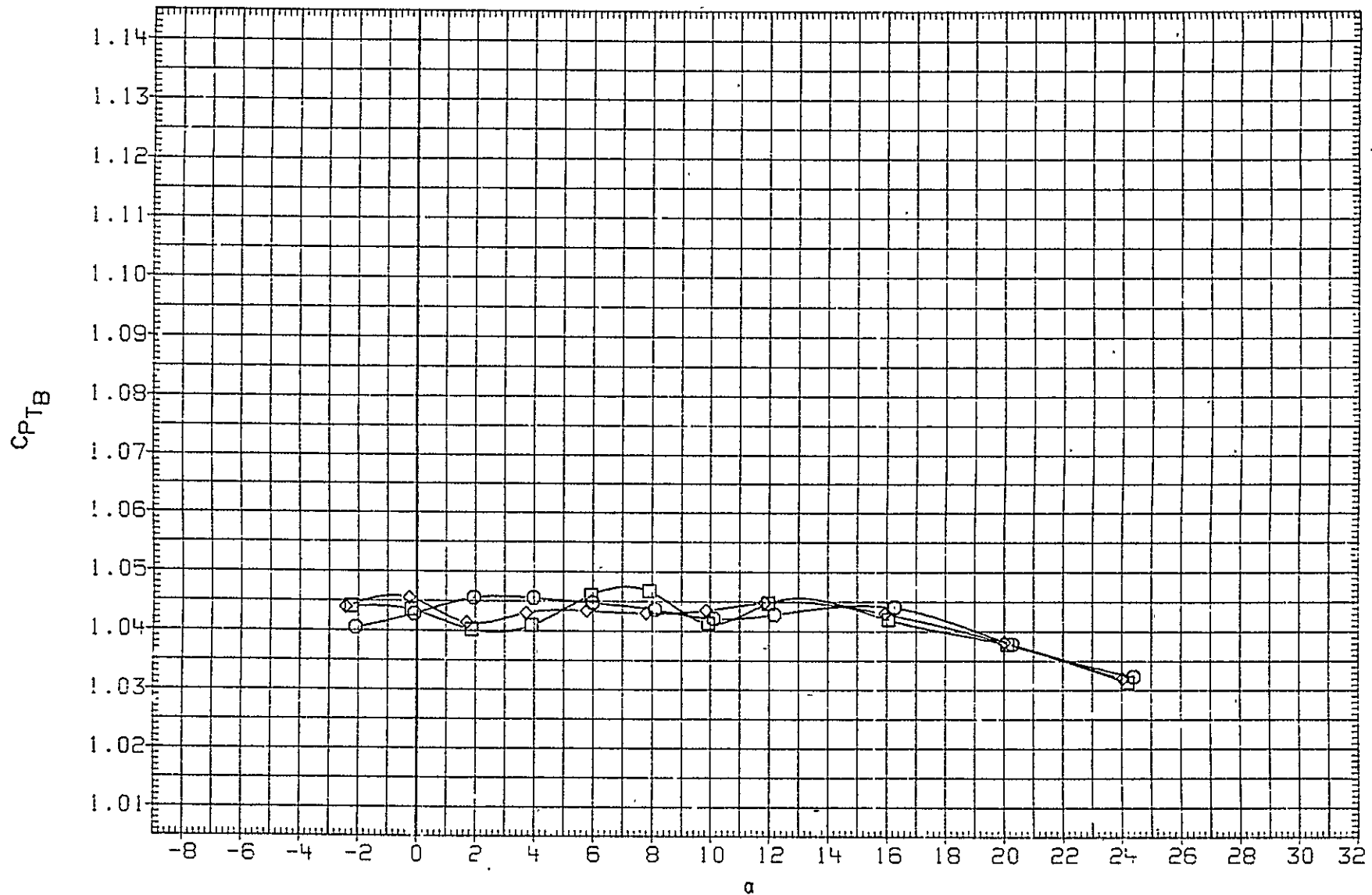


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

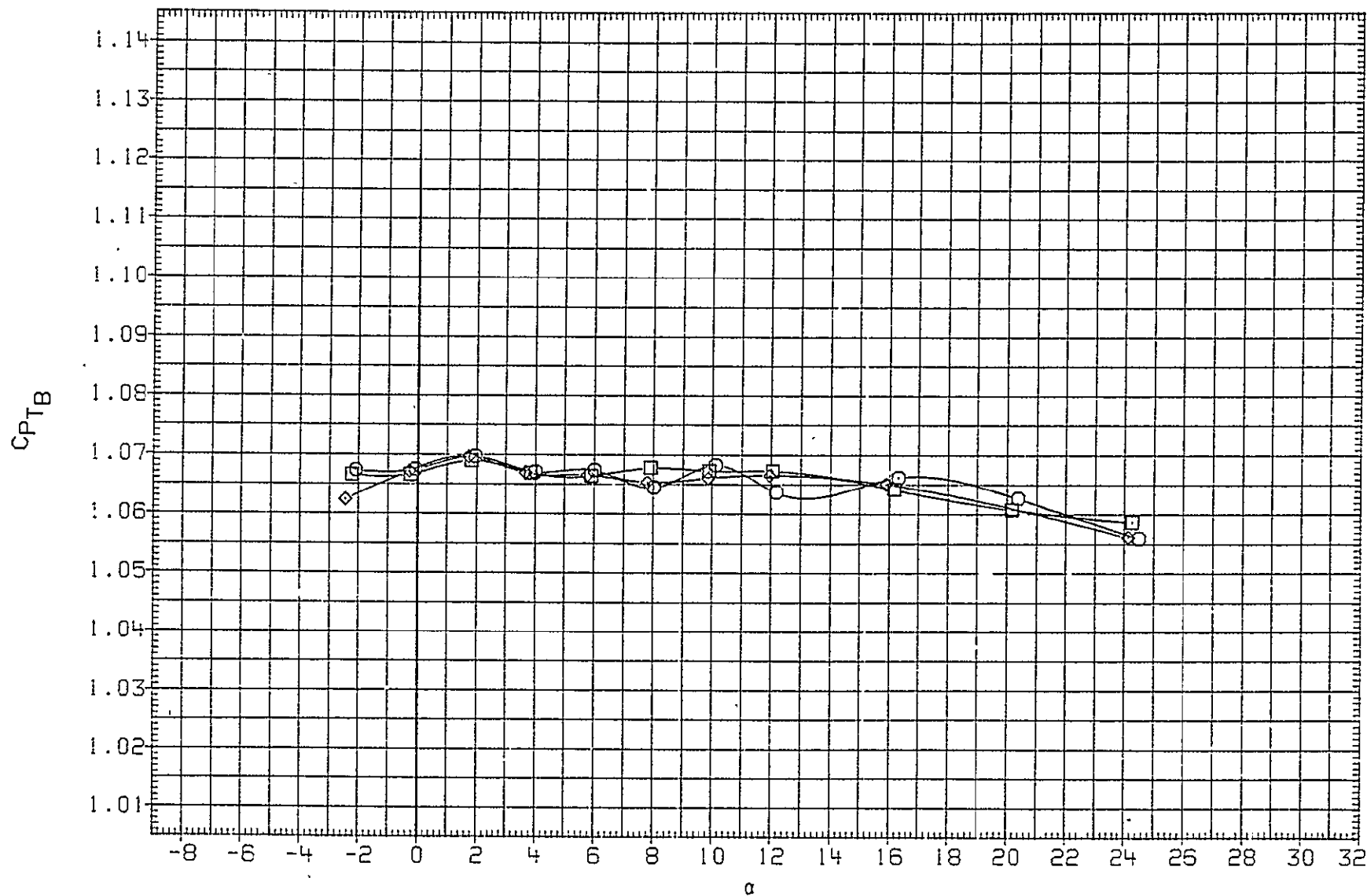


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

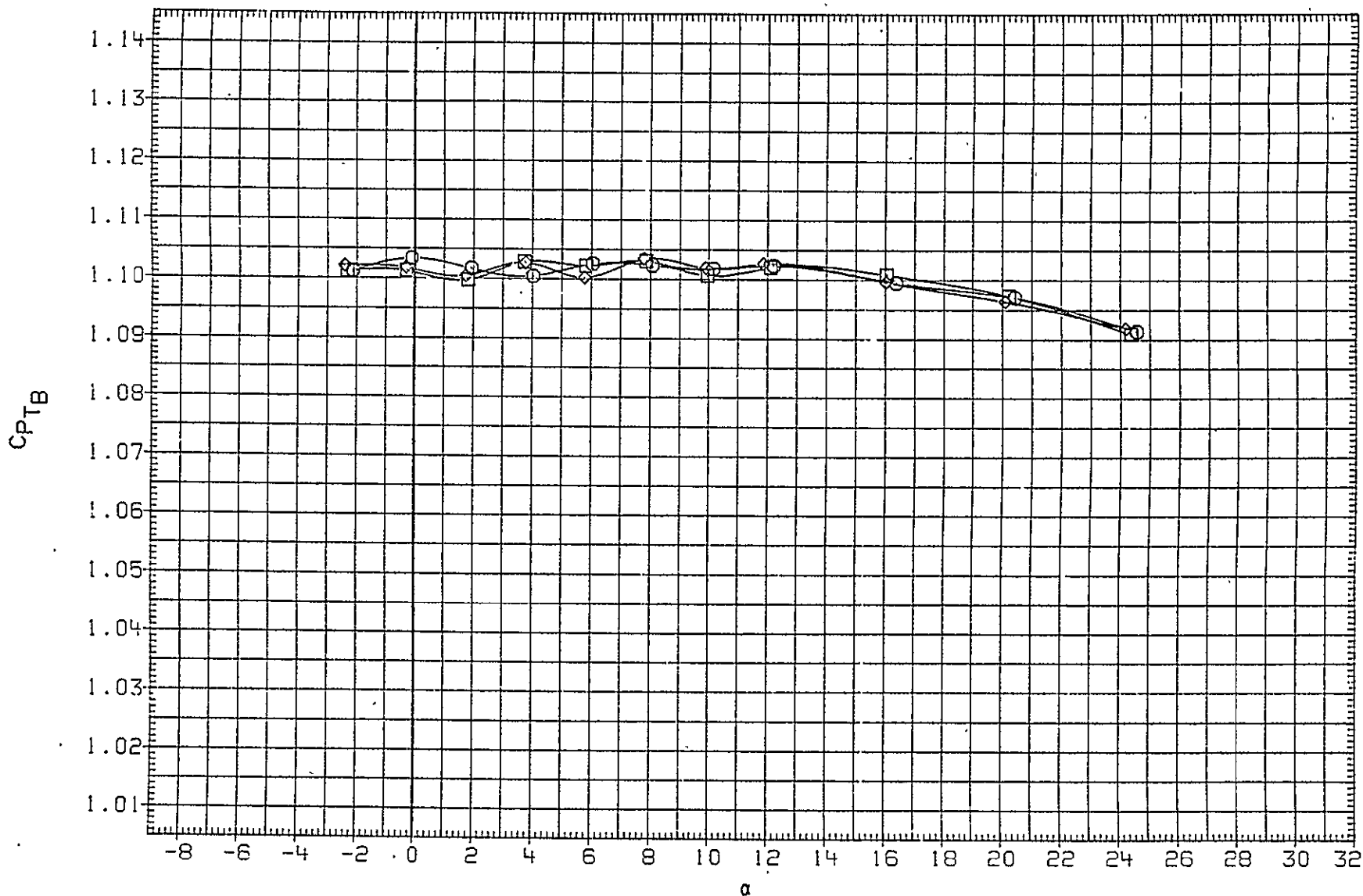


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

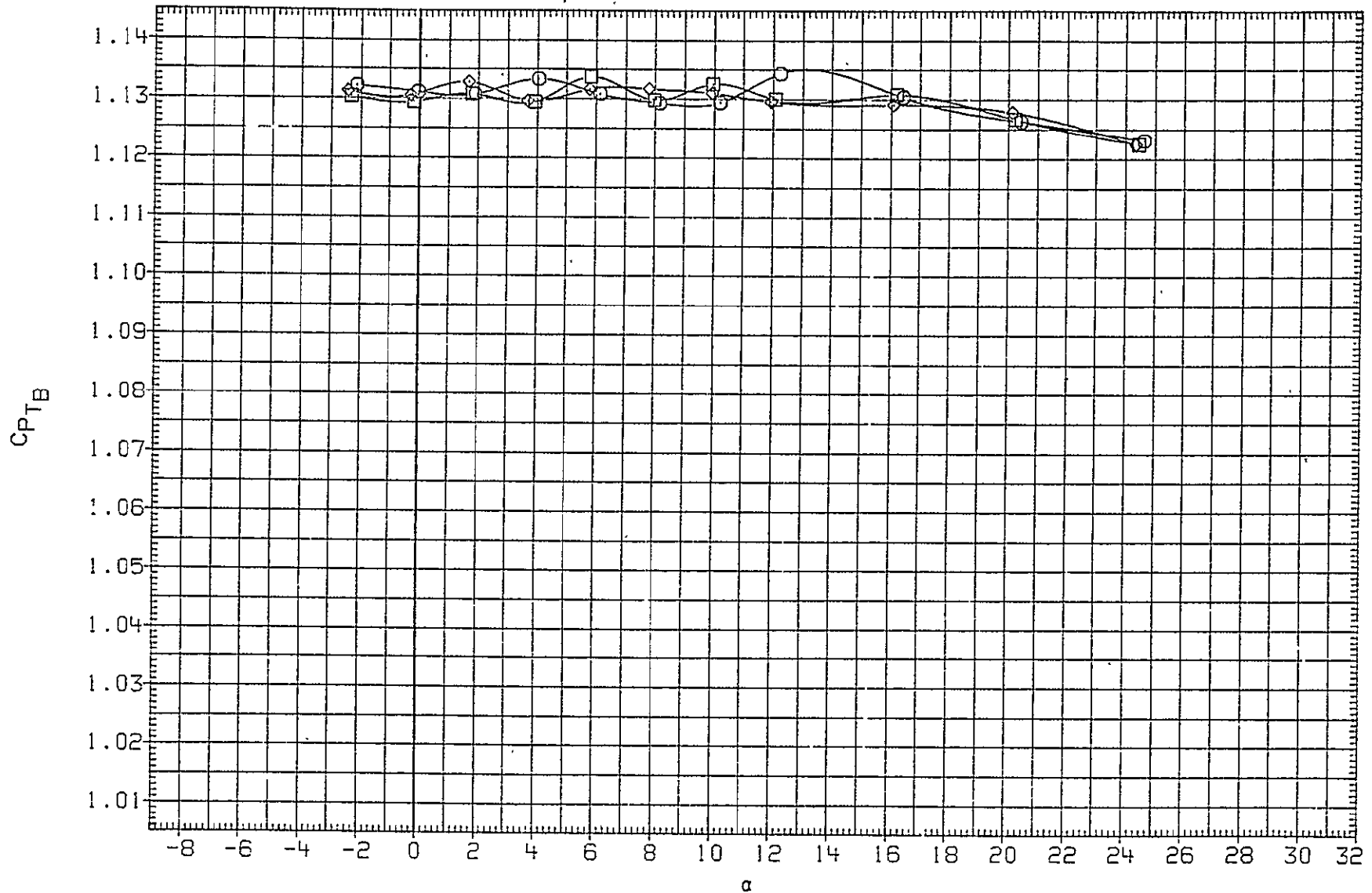


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

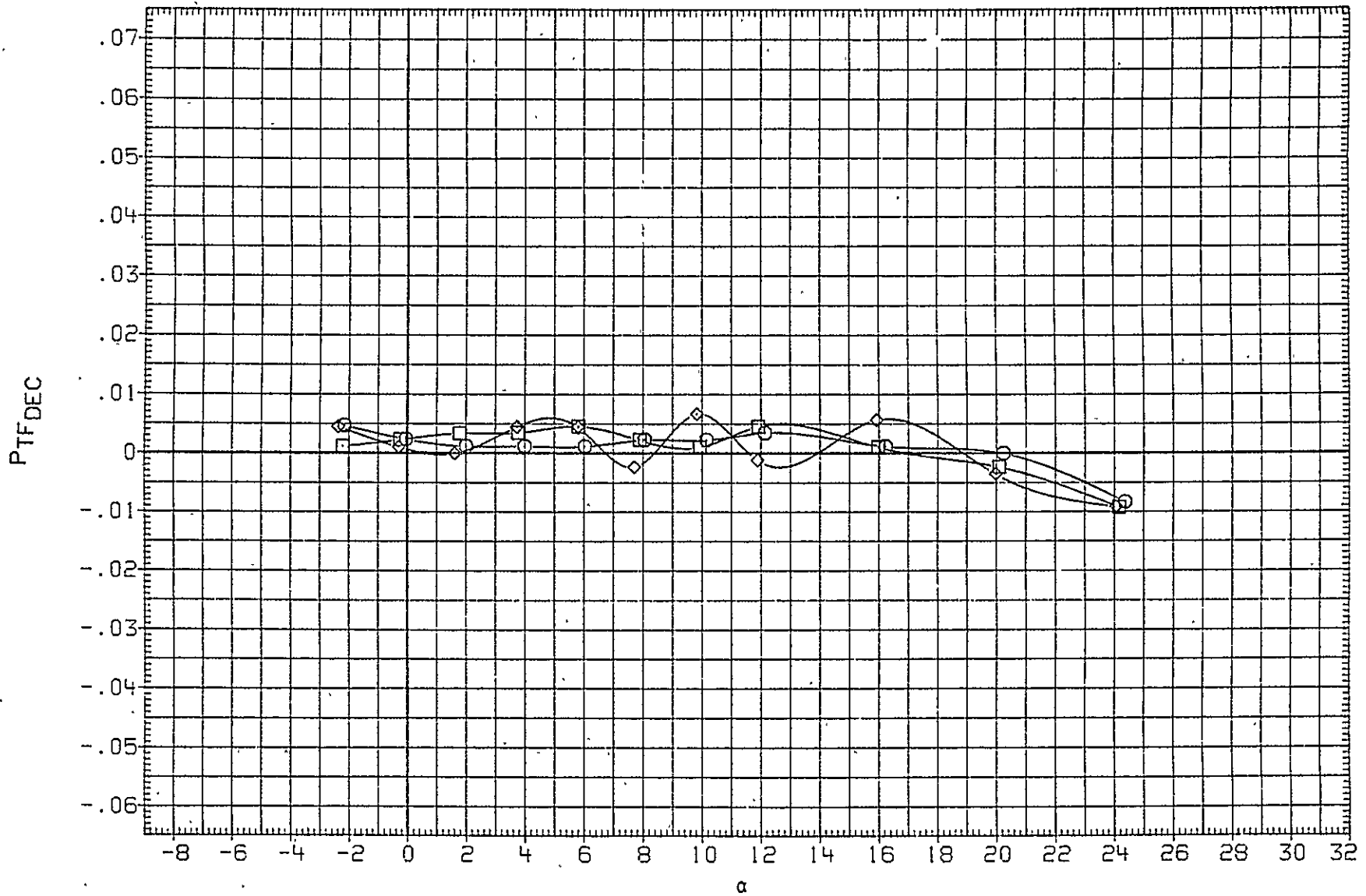


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

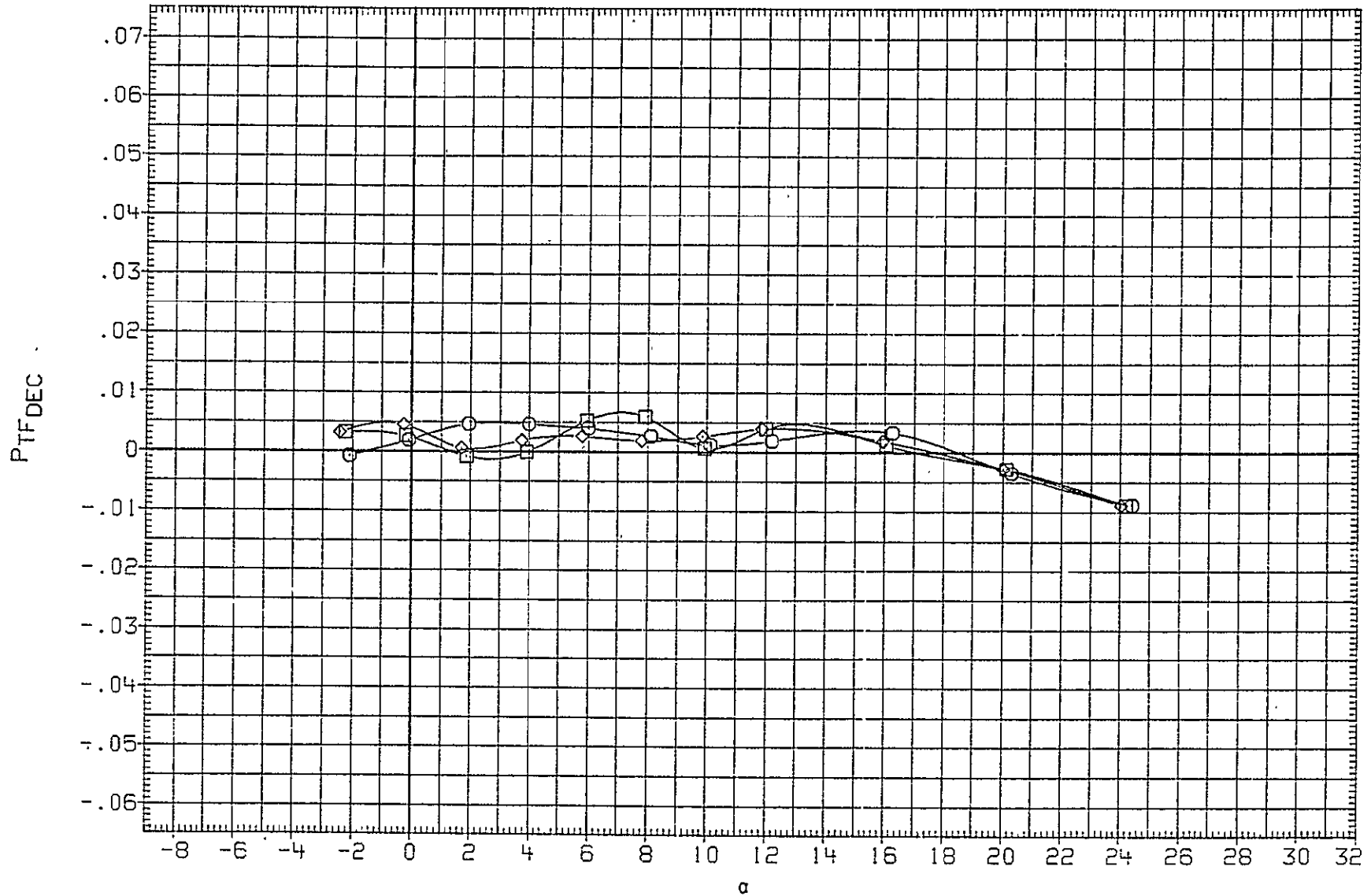


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

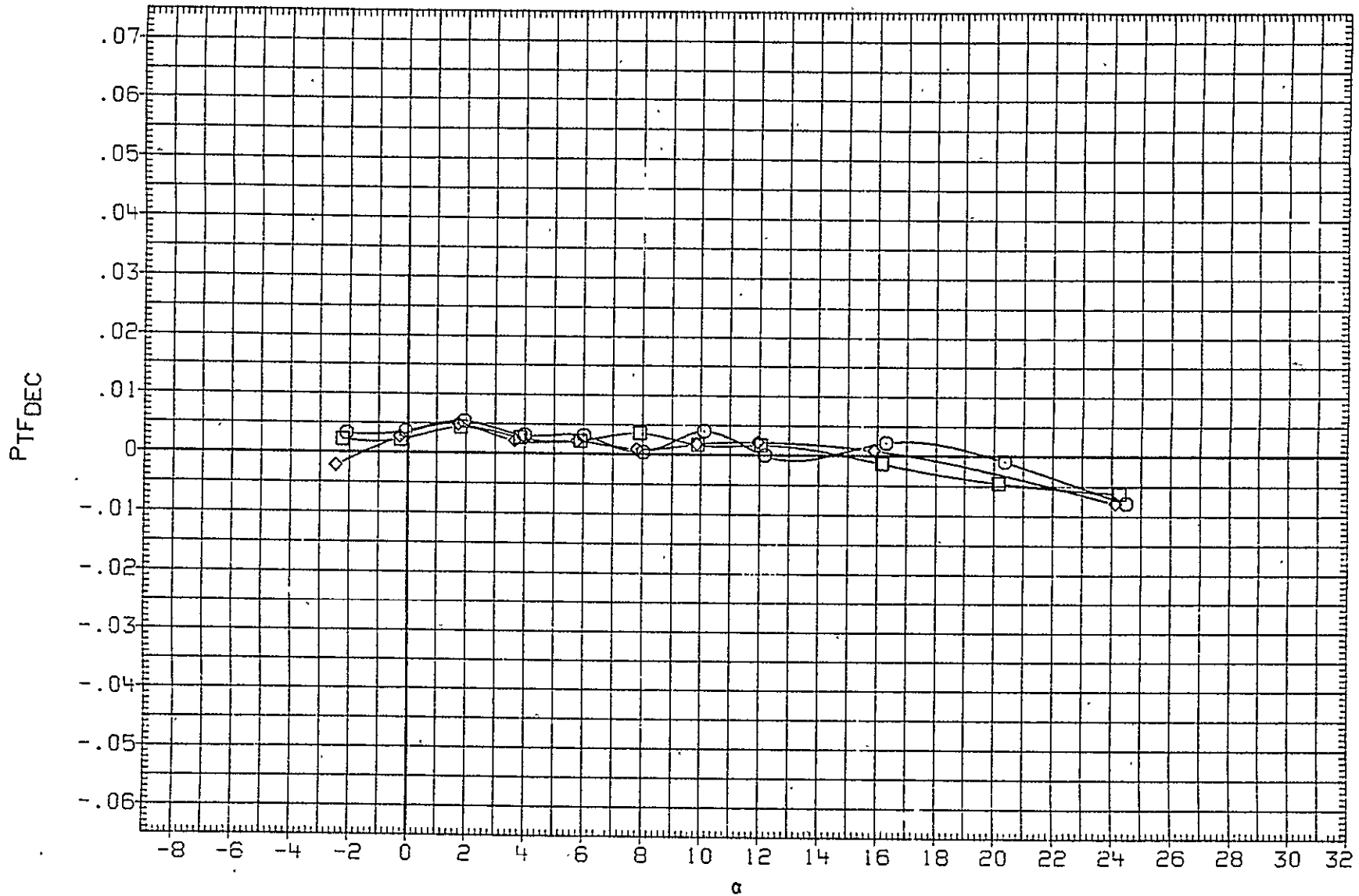


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	APC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

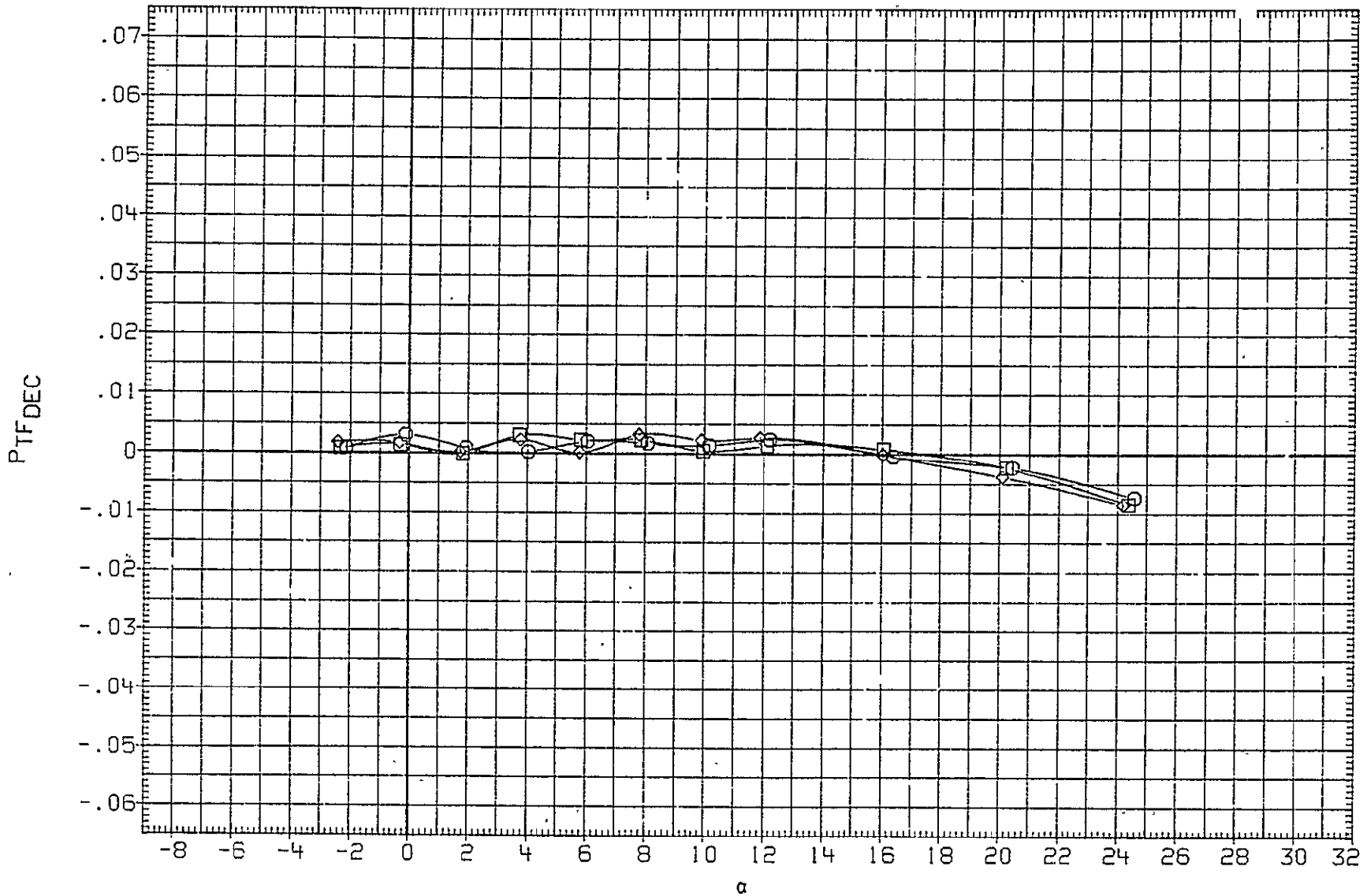


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

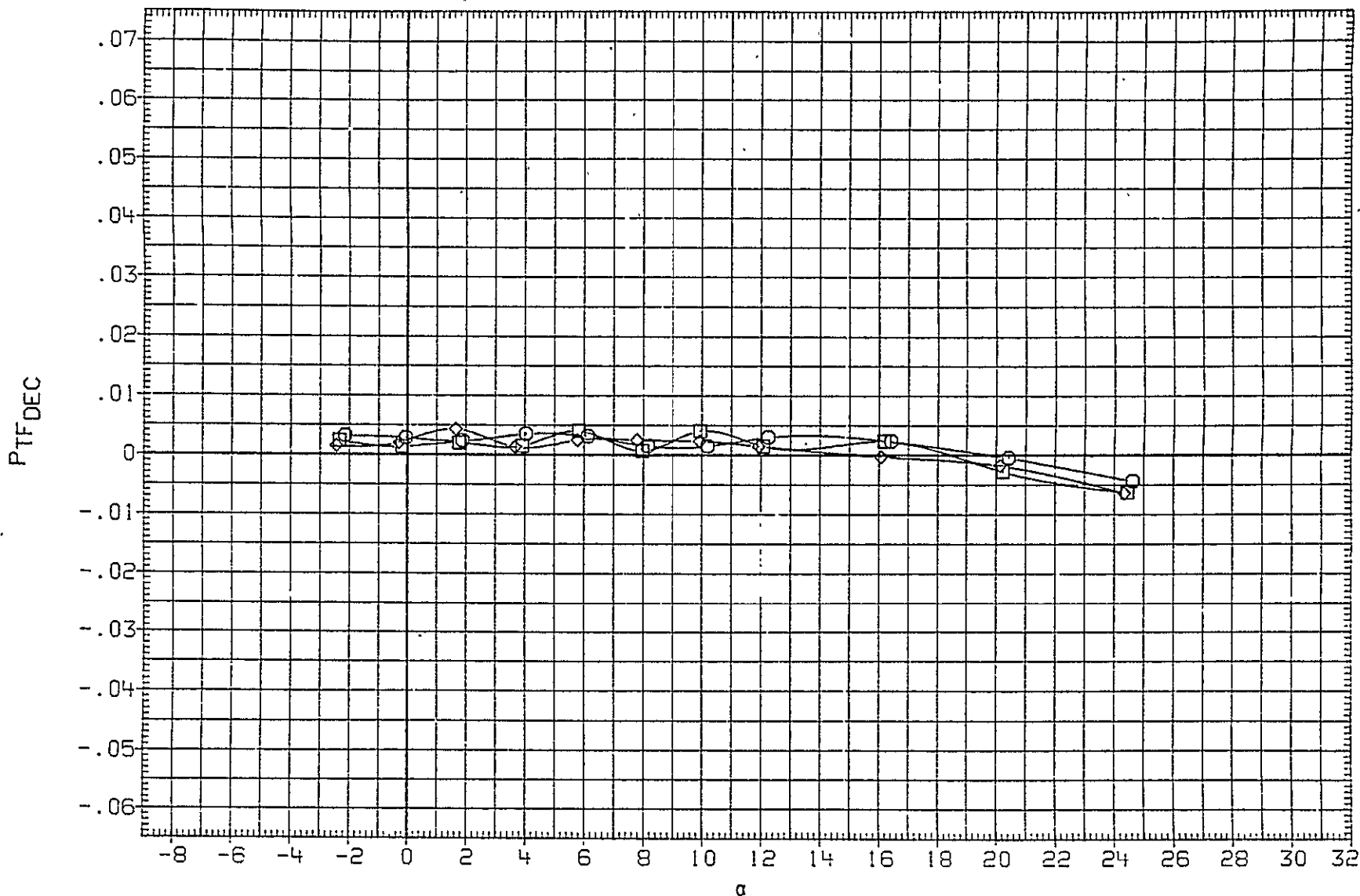


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(E)MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.01C	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.01C	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.01C	.000

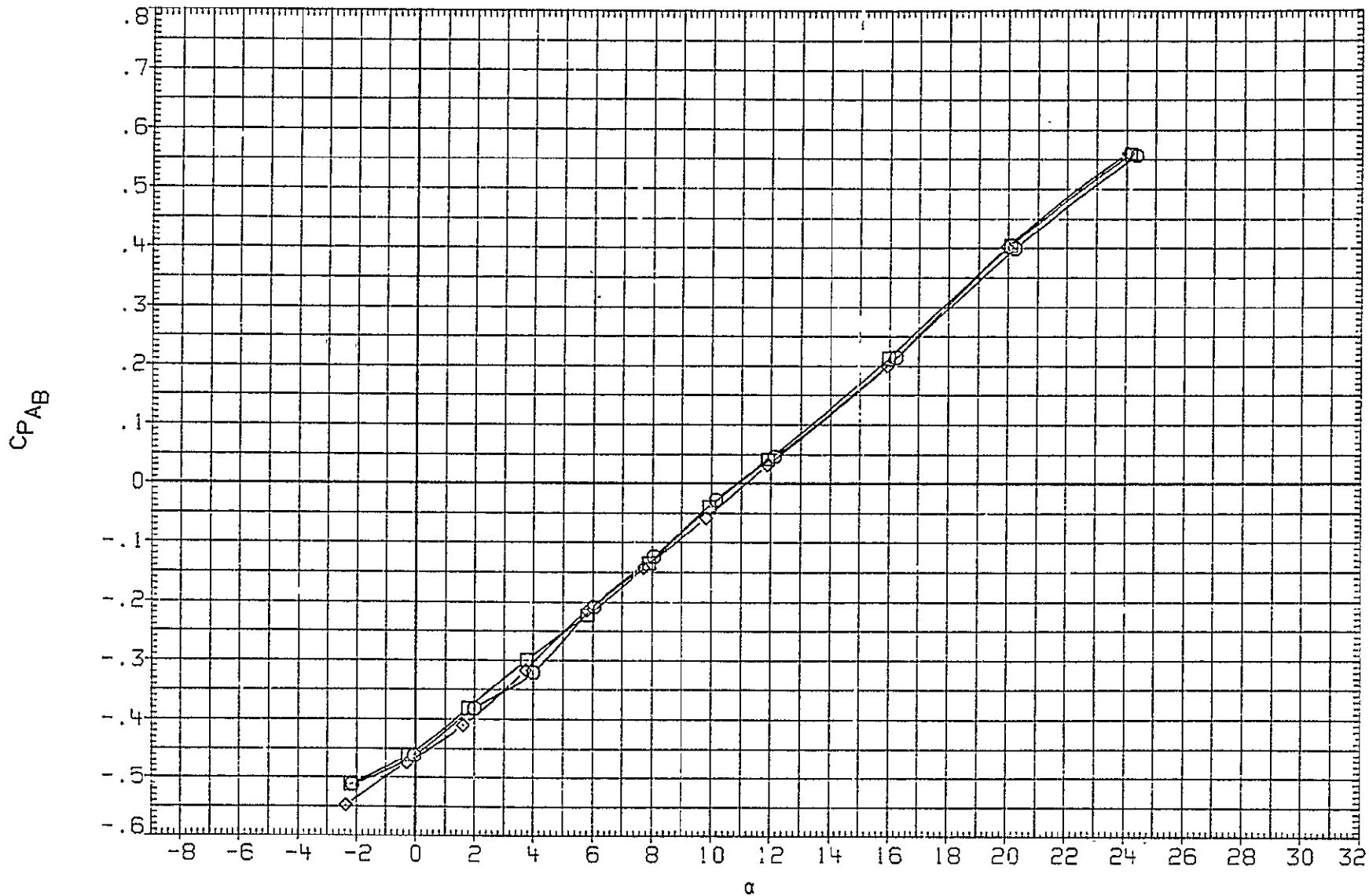


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

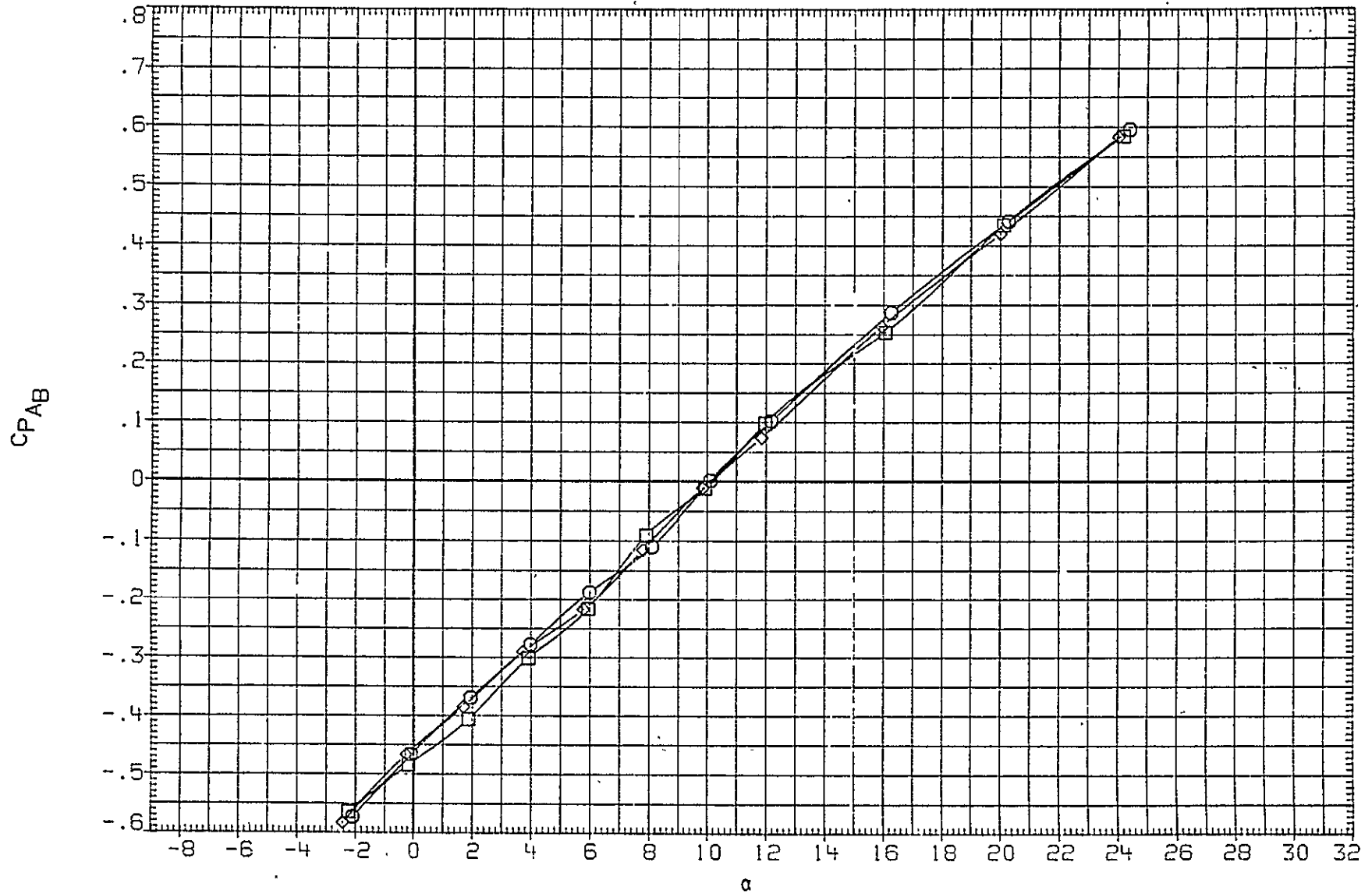


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

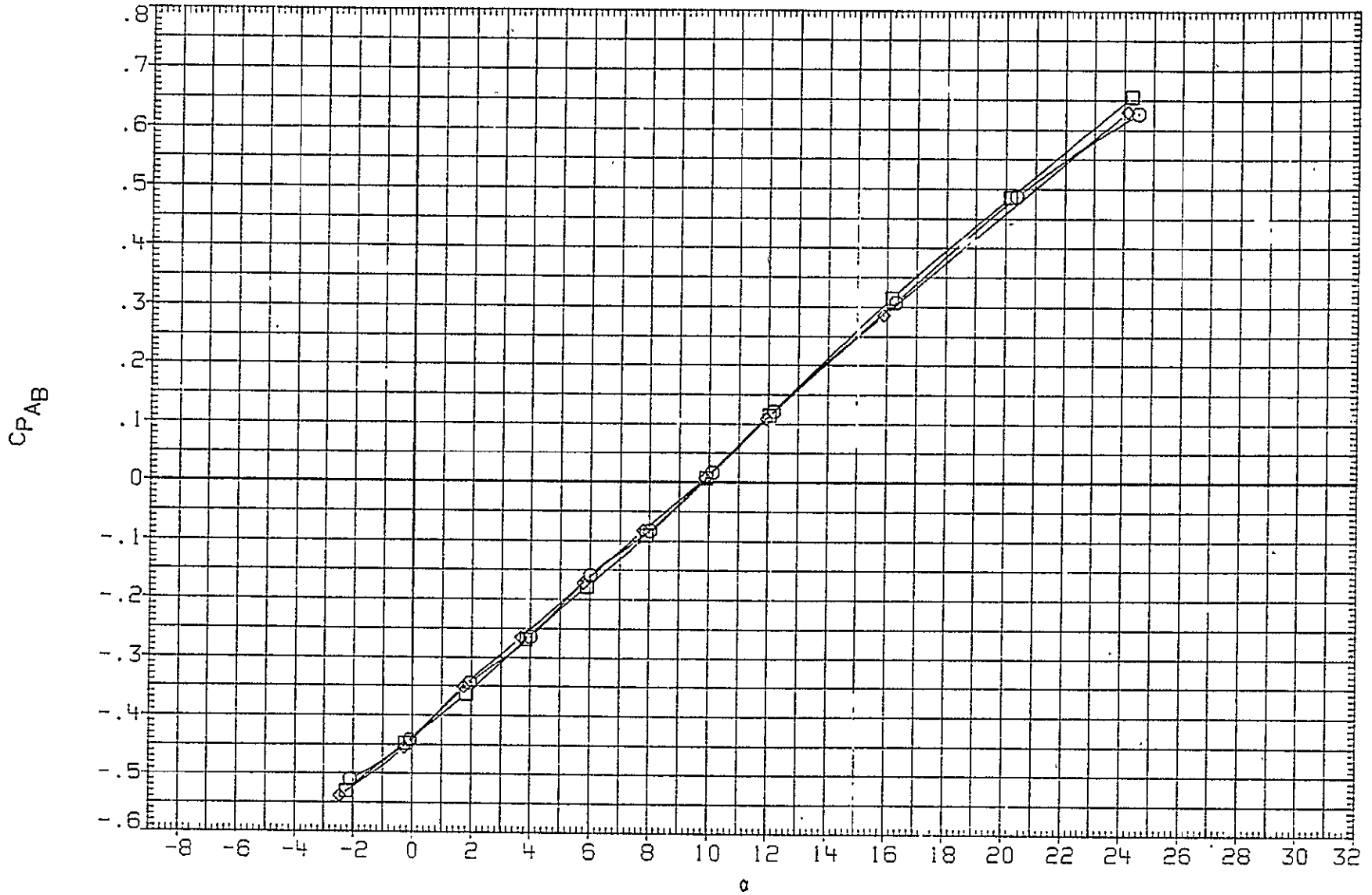


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	APC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

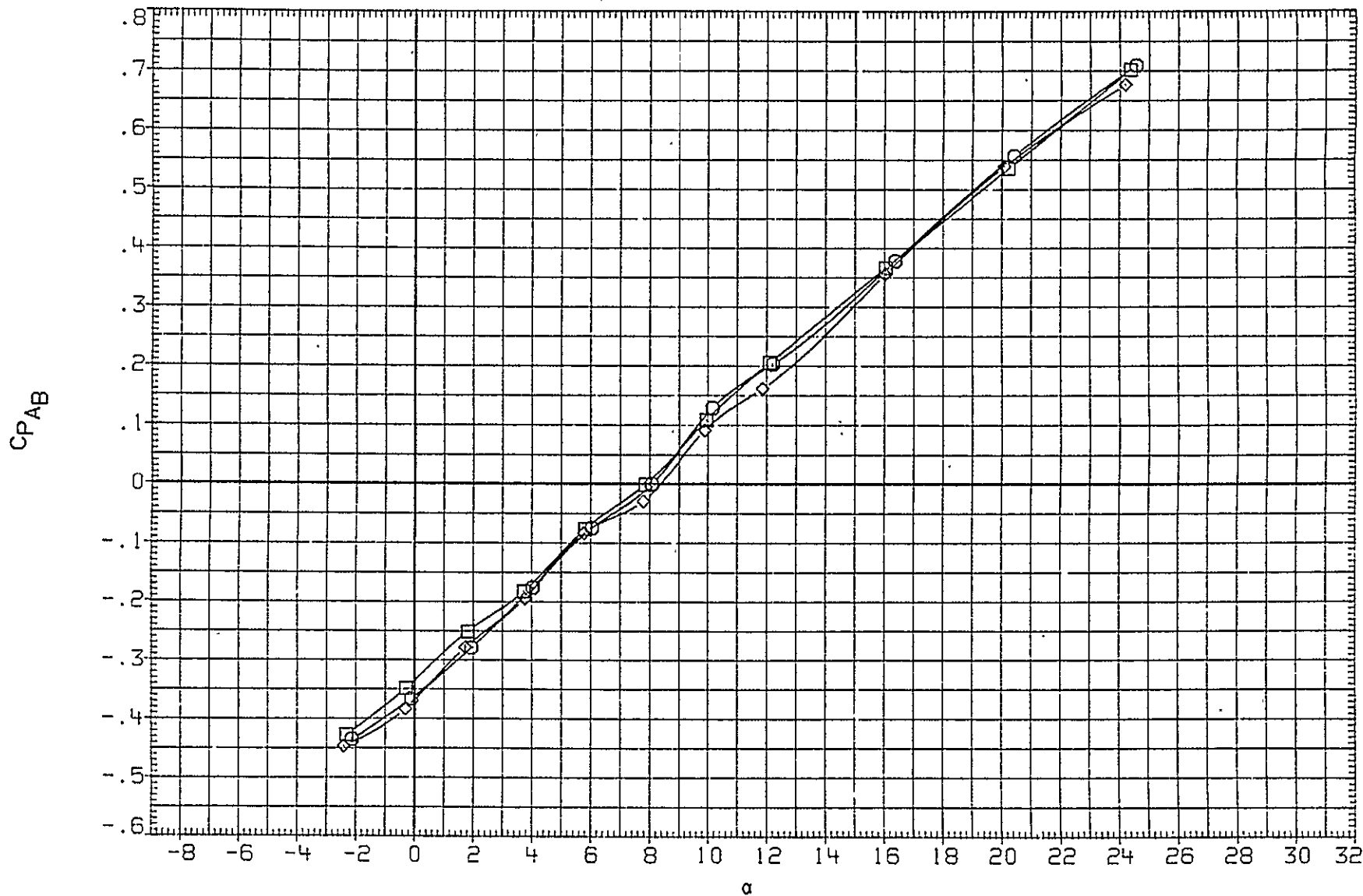


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

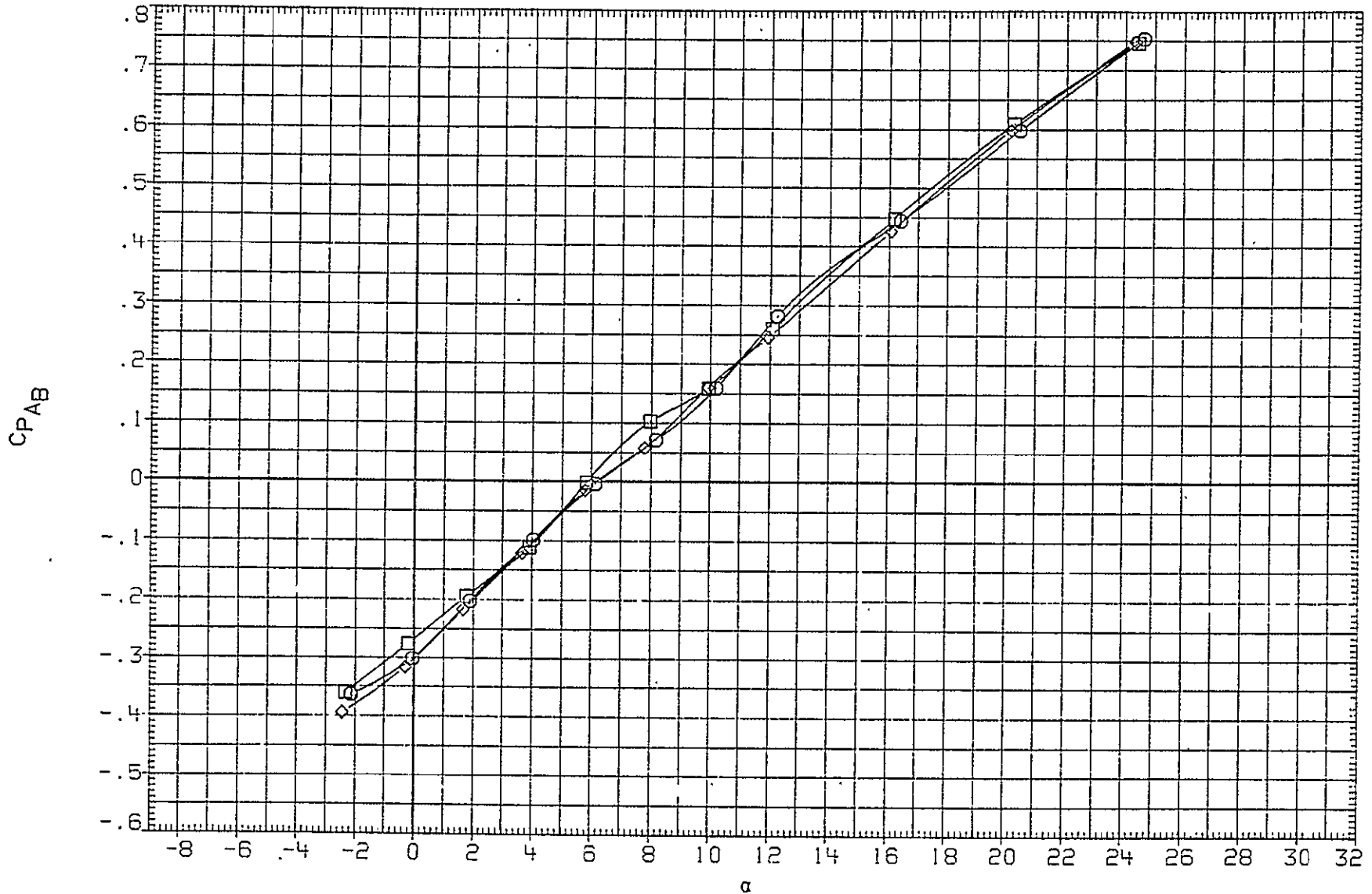


FIG. 4 CORRELATION OF FLIGHT TEST PROBE CHARACTERISTICS WITH ORBITER ANGLE OF ATTACK

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

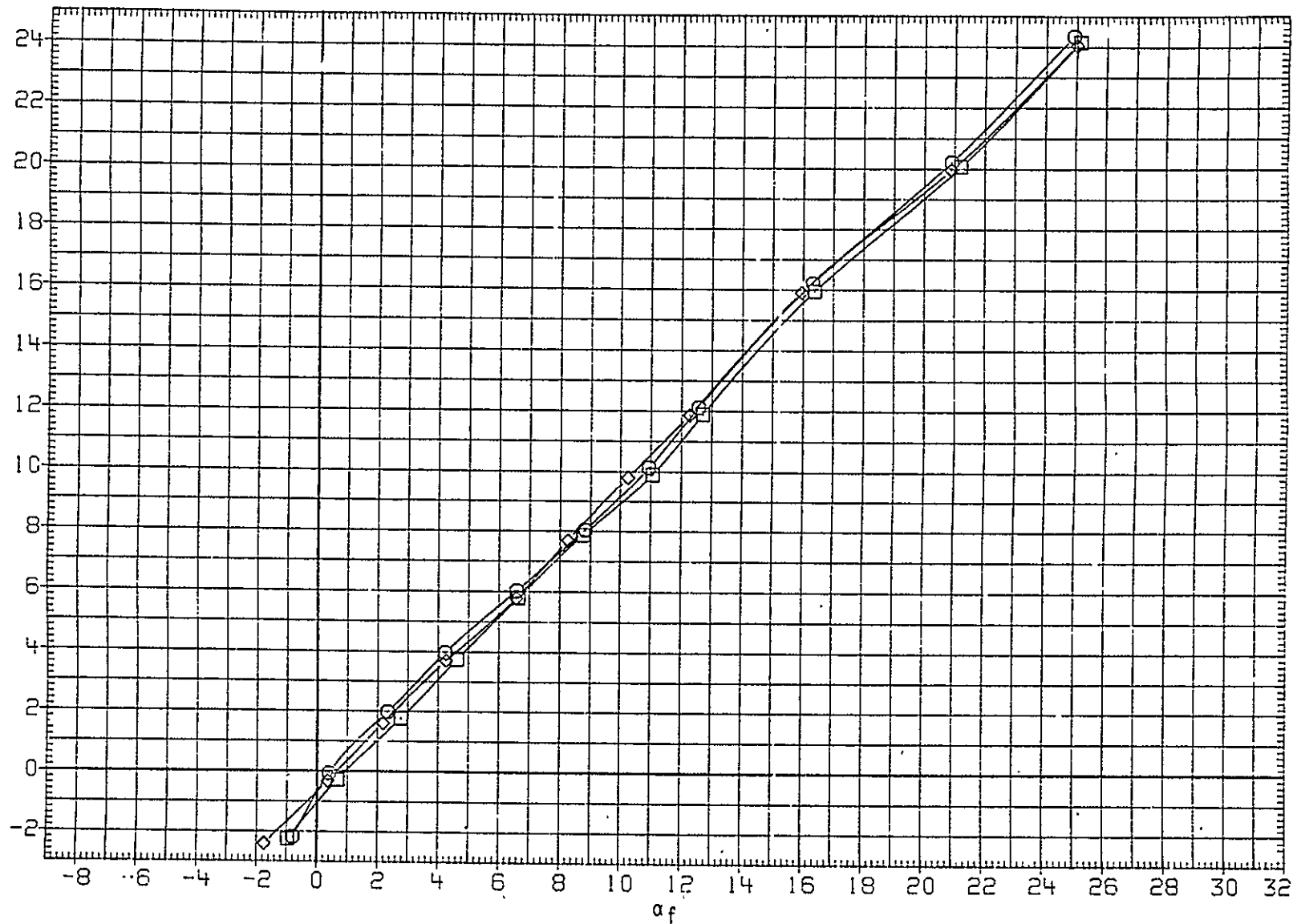


FIG. 5 ORBITER ANGLE OF ATTACK CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

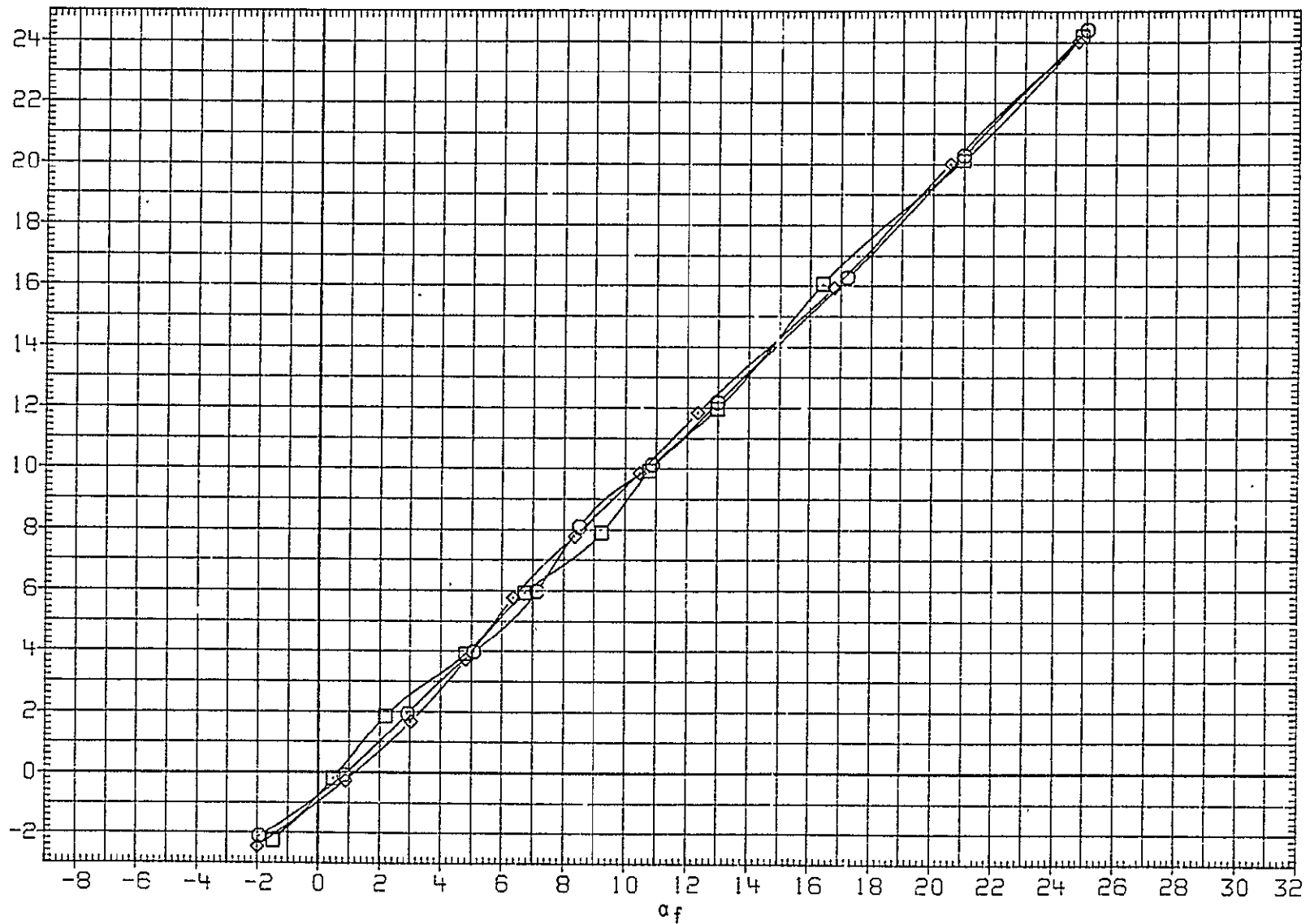


FIG. 5 ORBITER ANGLE OF ATTACK CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

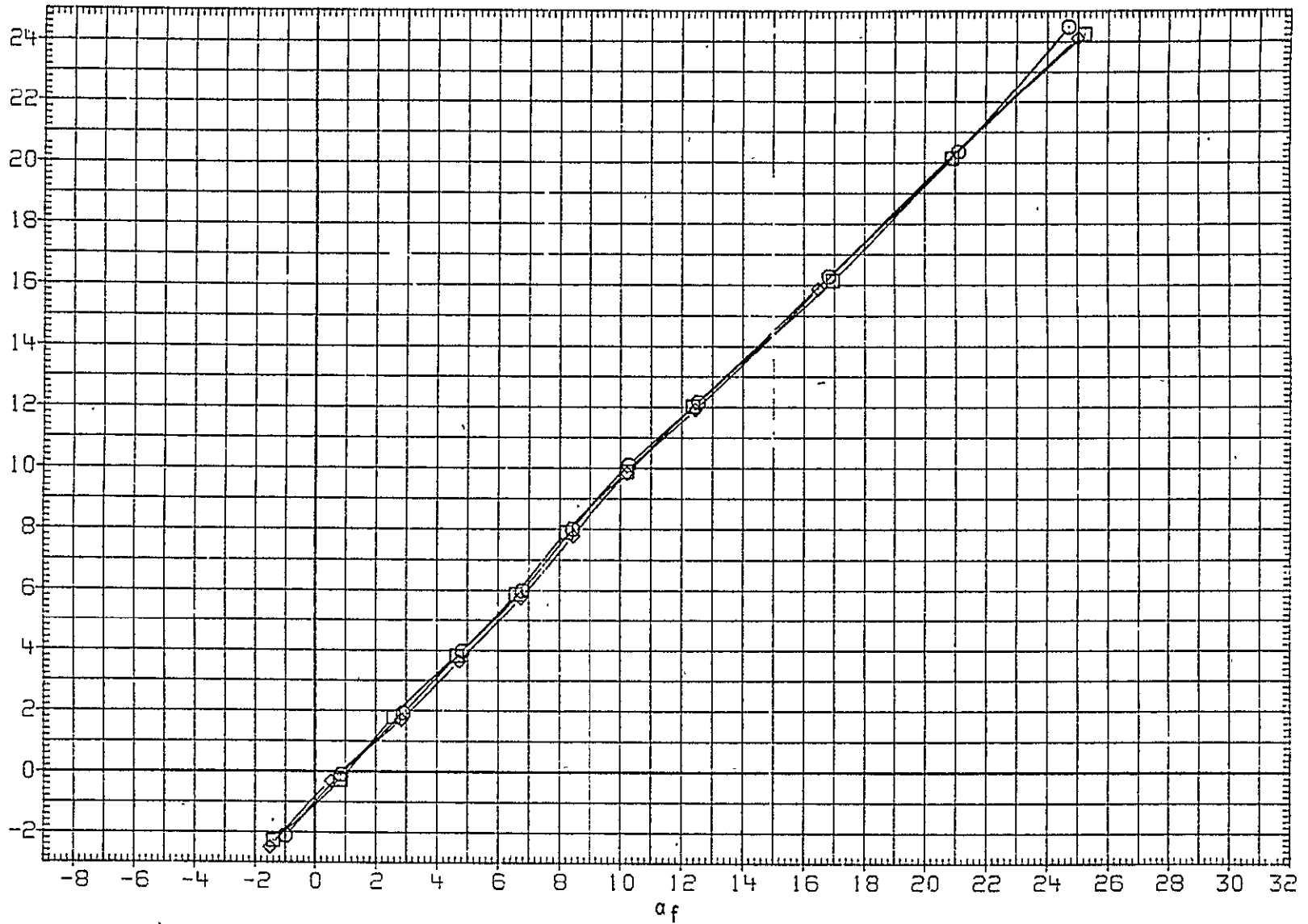


FIG. 5 ORBITER ANGLE OF ATTACK CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

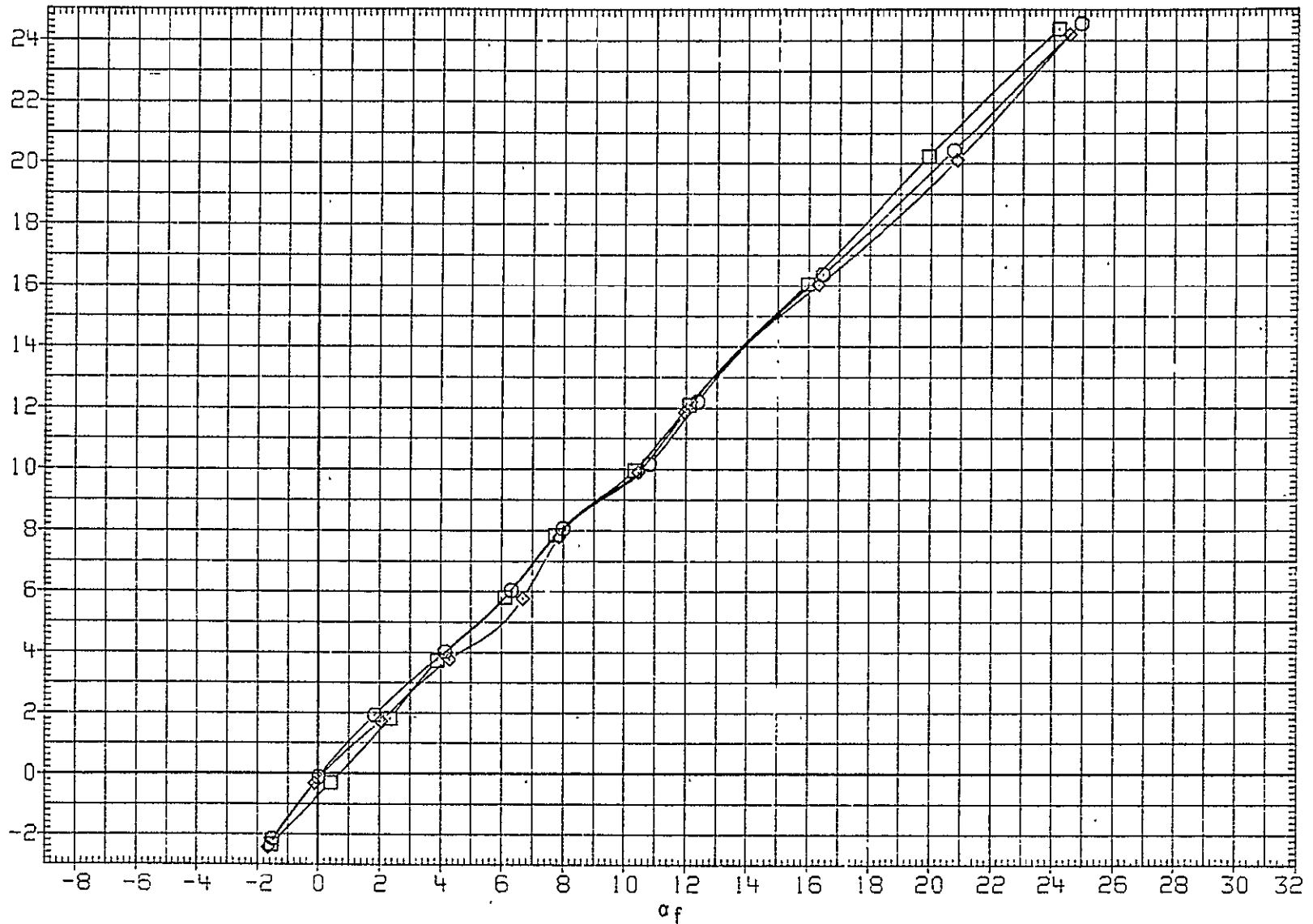


FIG. 5 ORBITER ANGLE OF ATTACK CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

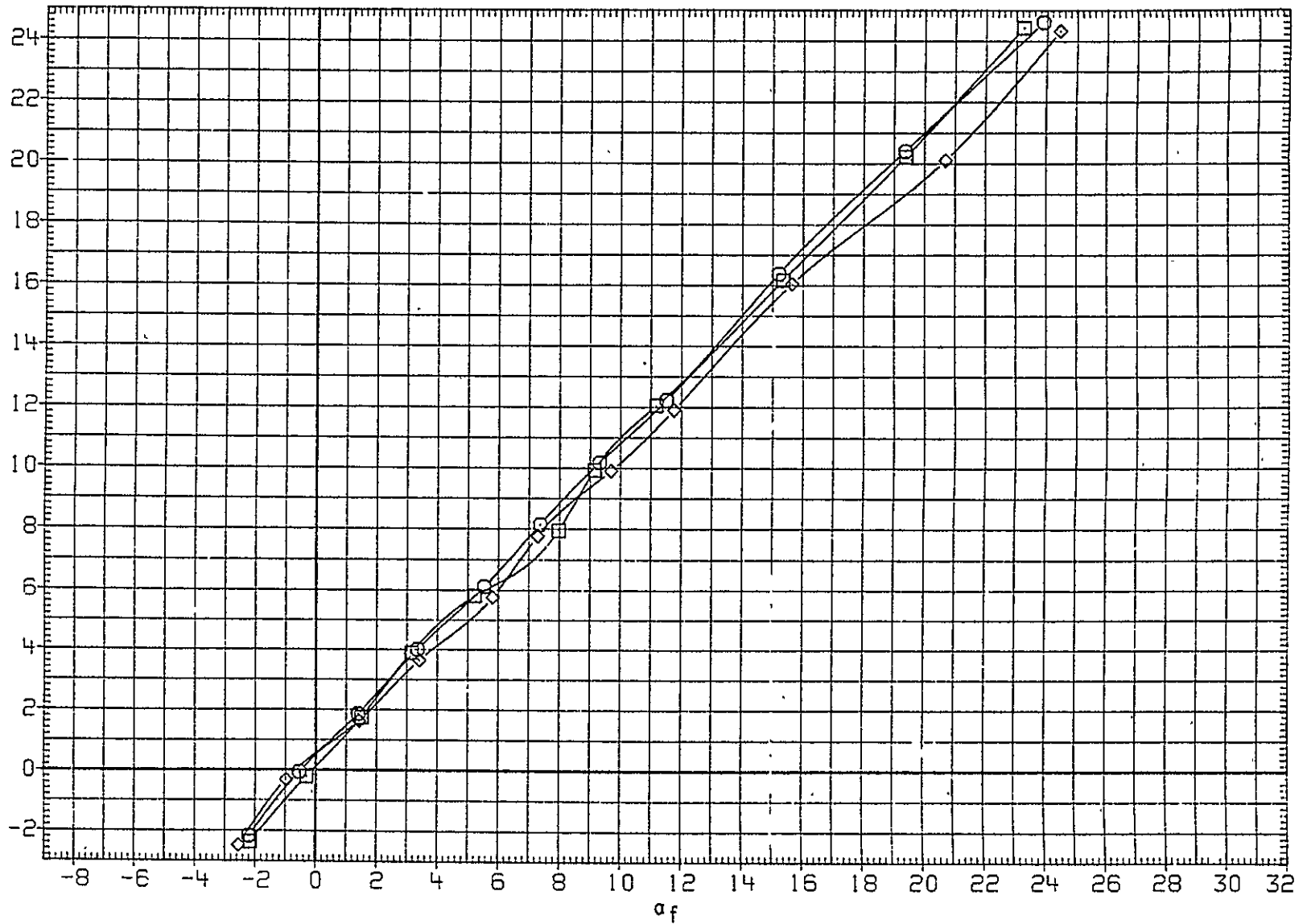


FIG. 5 ORBITER ANGLE OF ATTACK CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

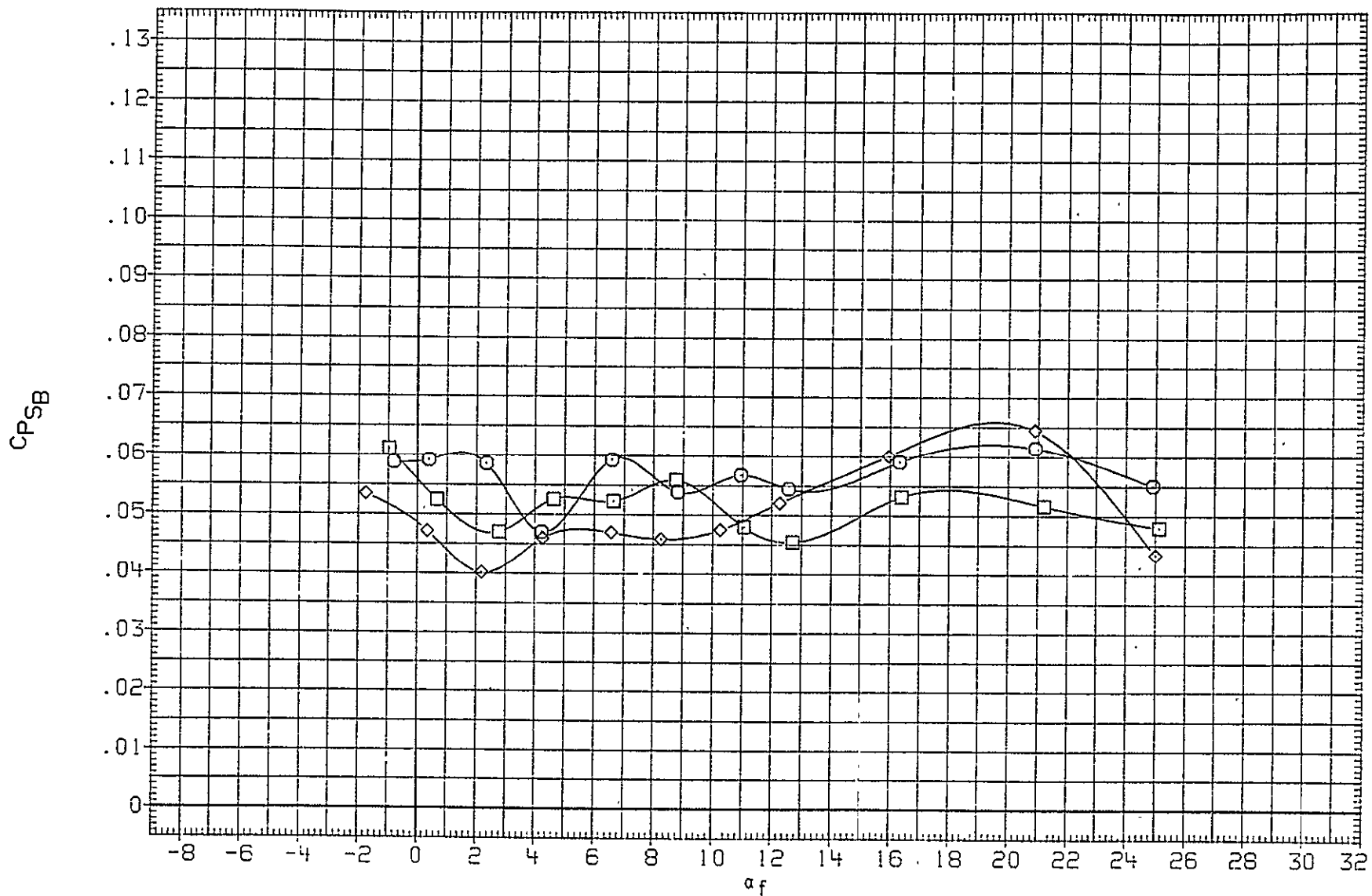


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

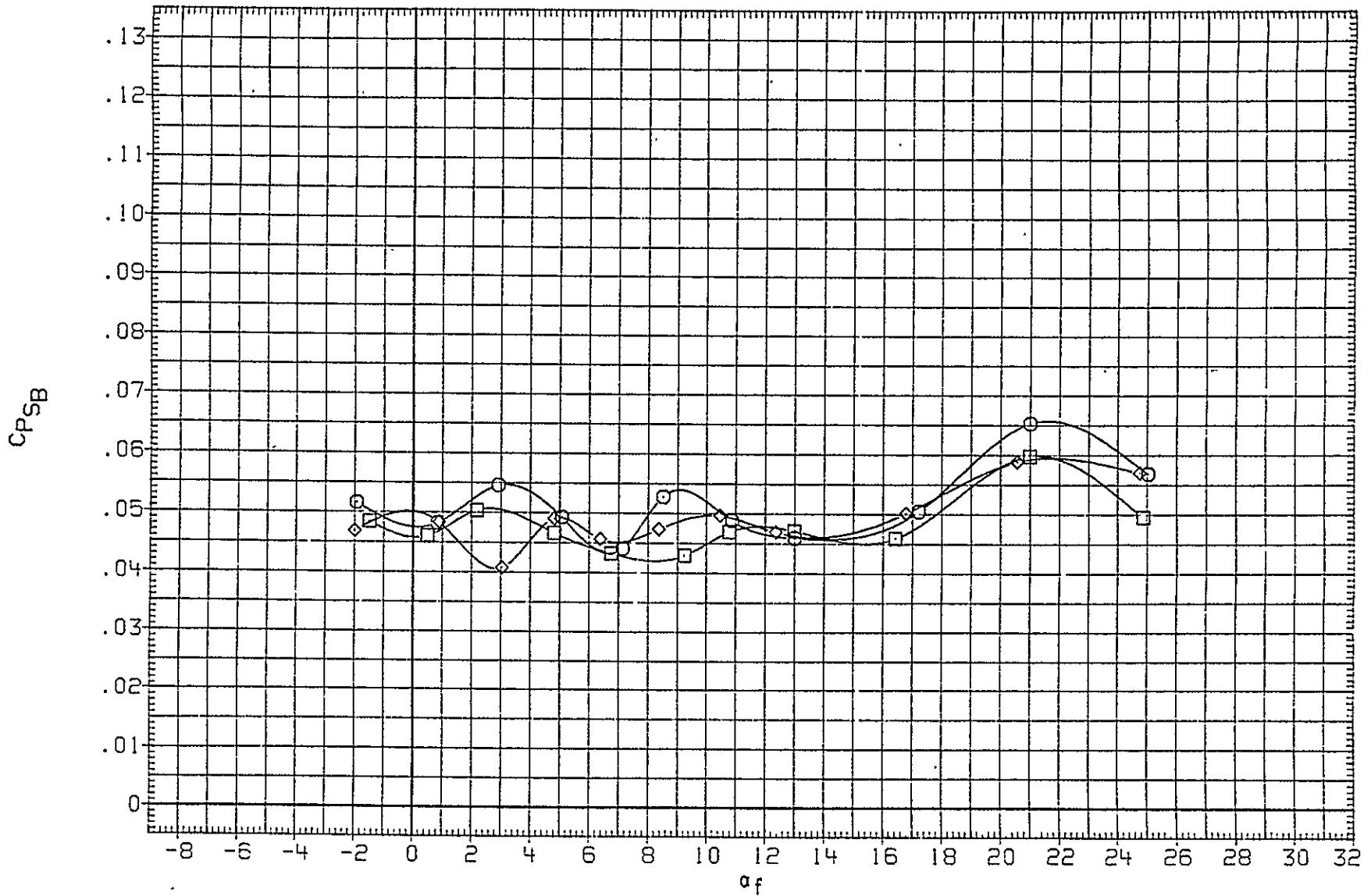


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

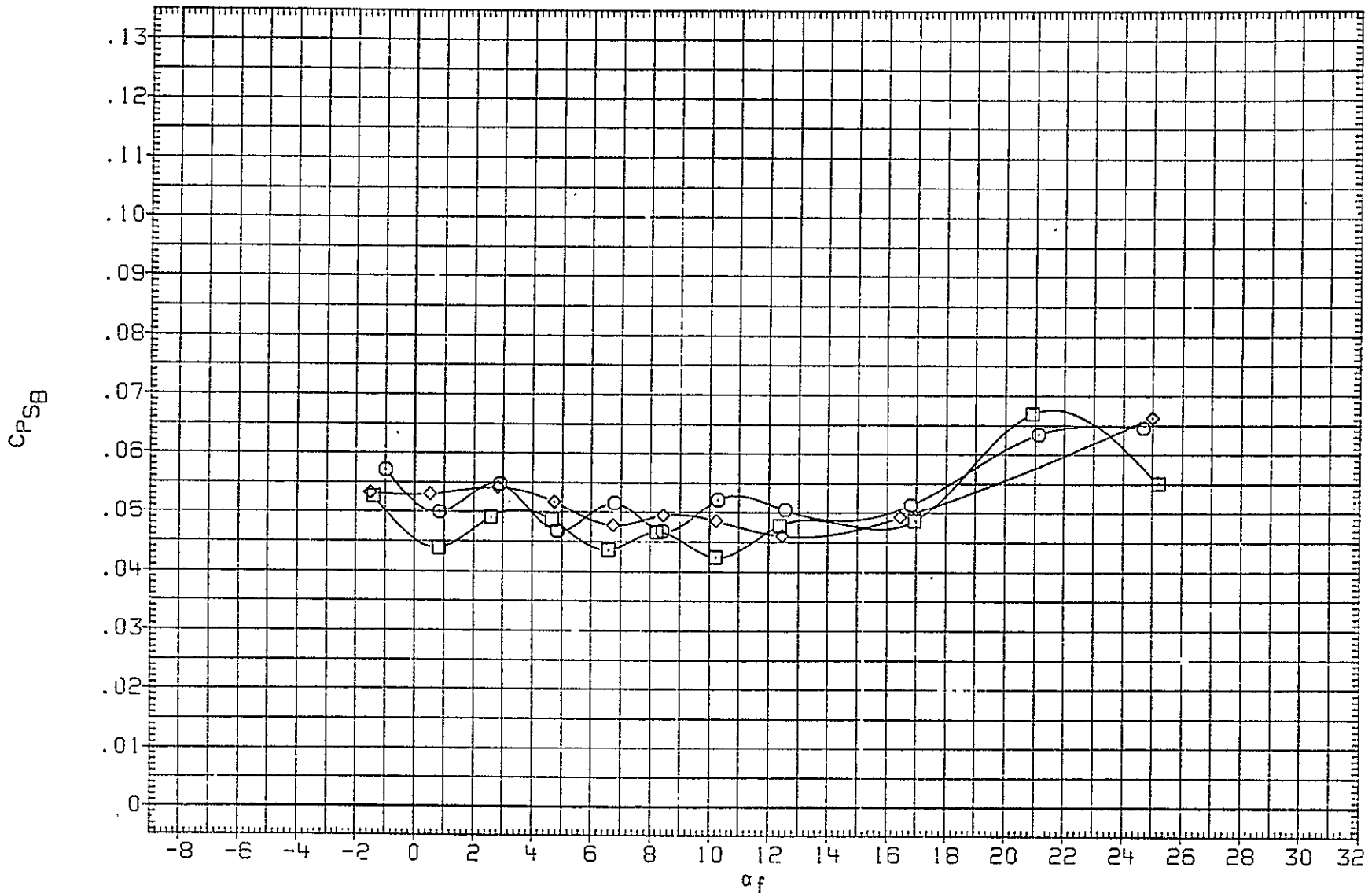


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

BETA	TPSG/P	PHI-N
.000	.013	.000
-2.000	.013	.000
2.000	.013	.000

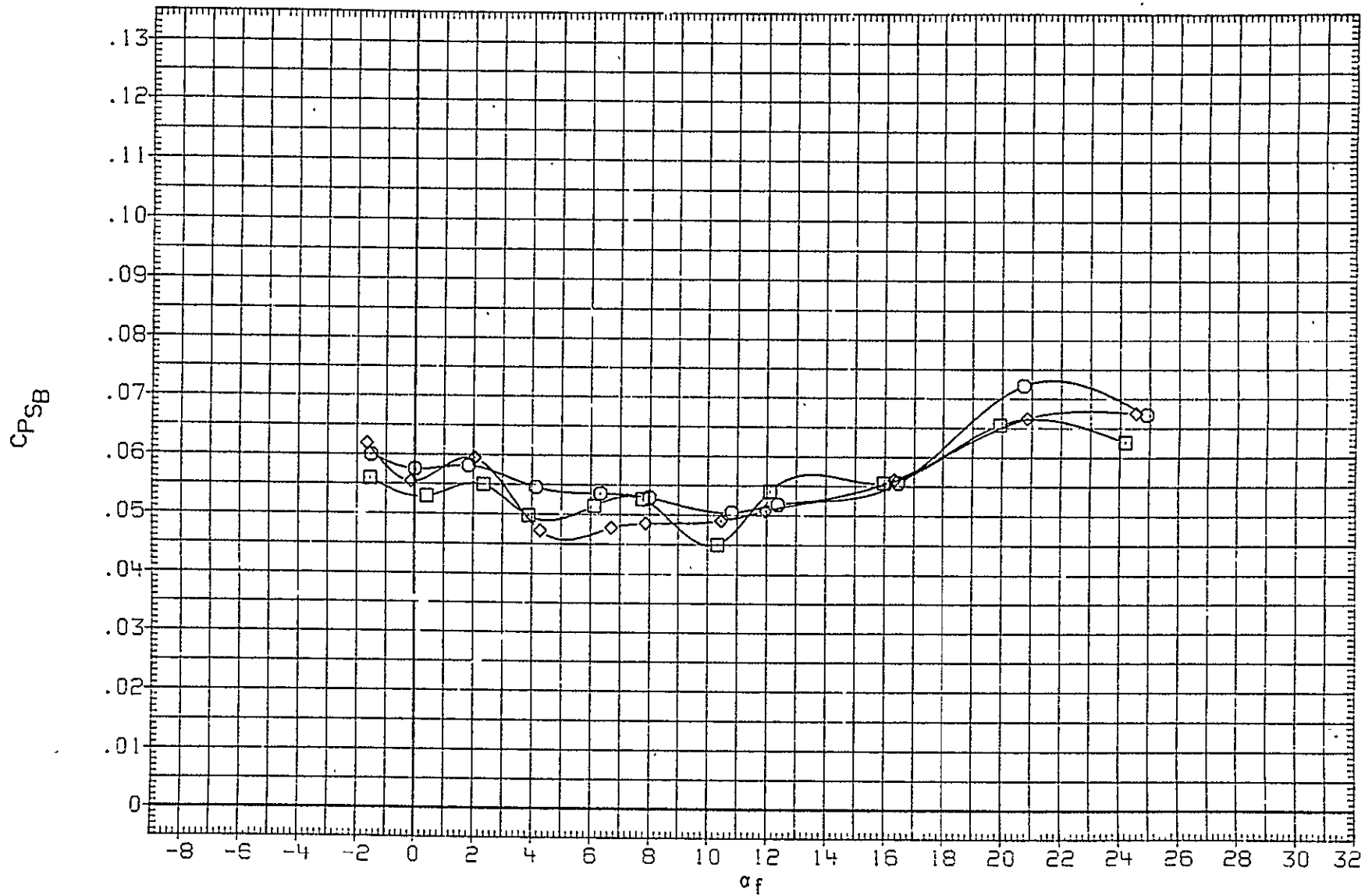


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

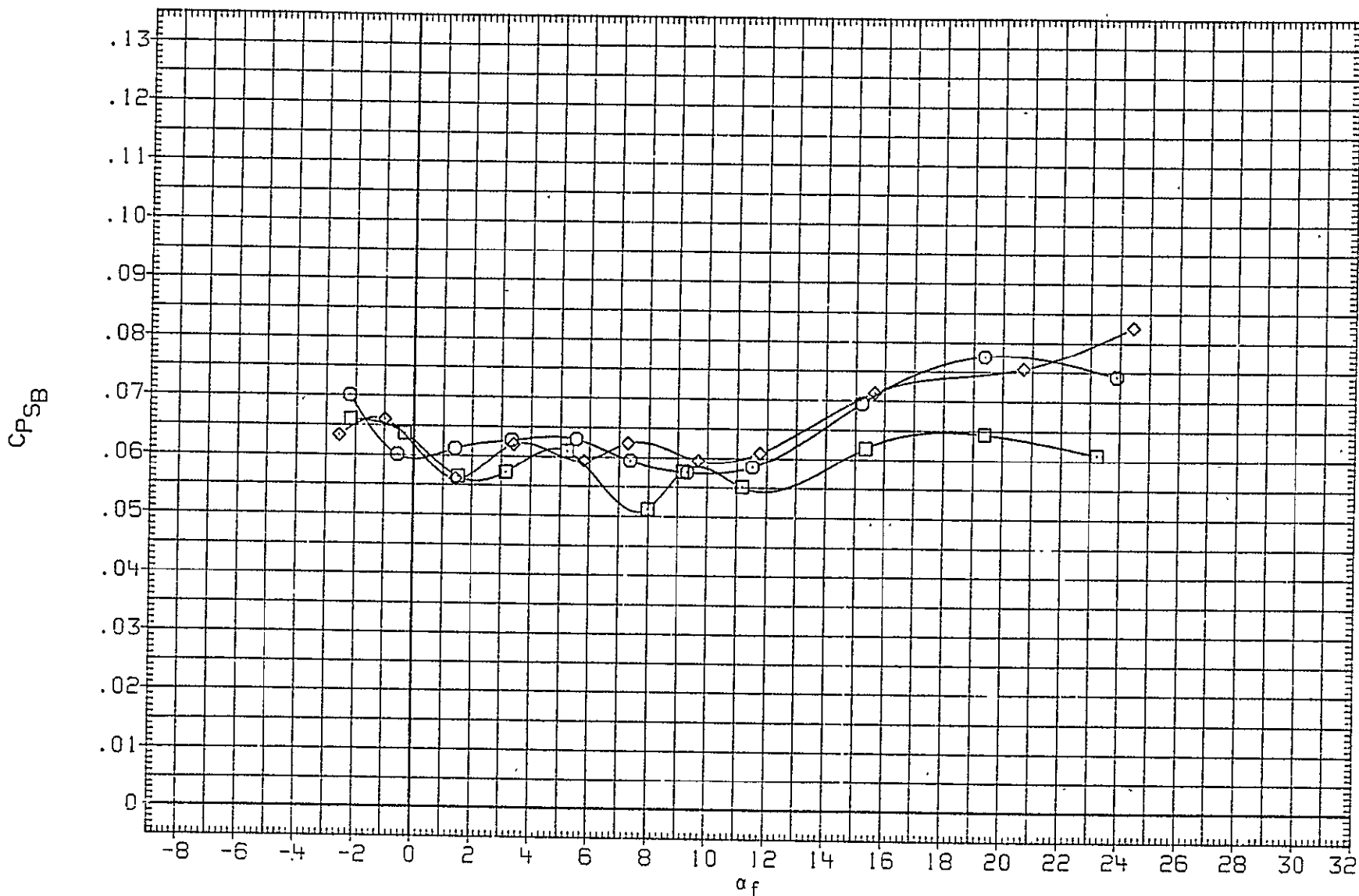


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

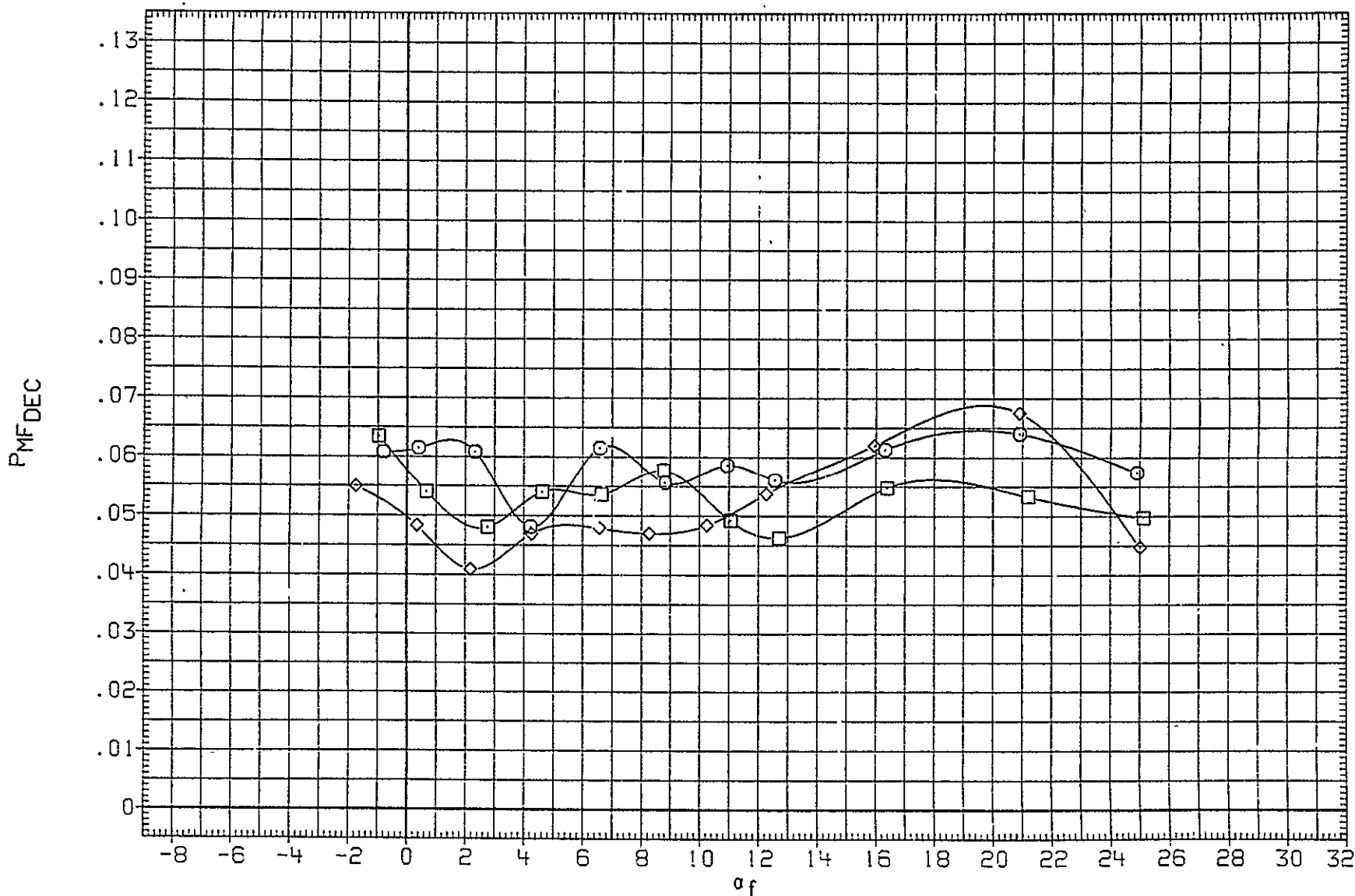


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGA ³	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

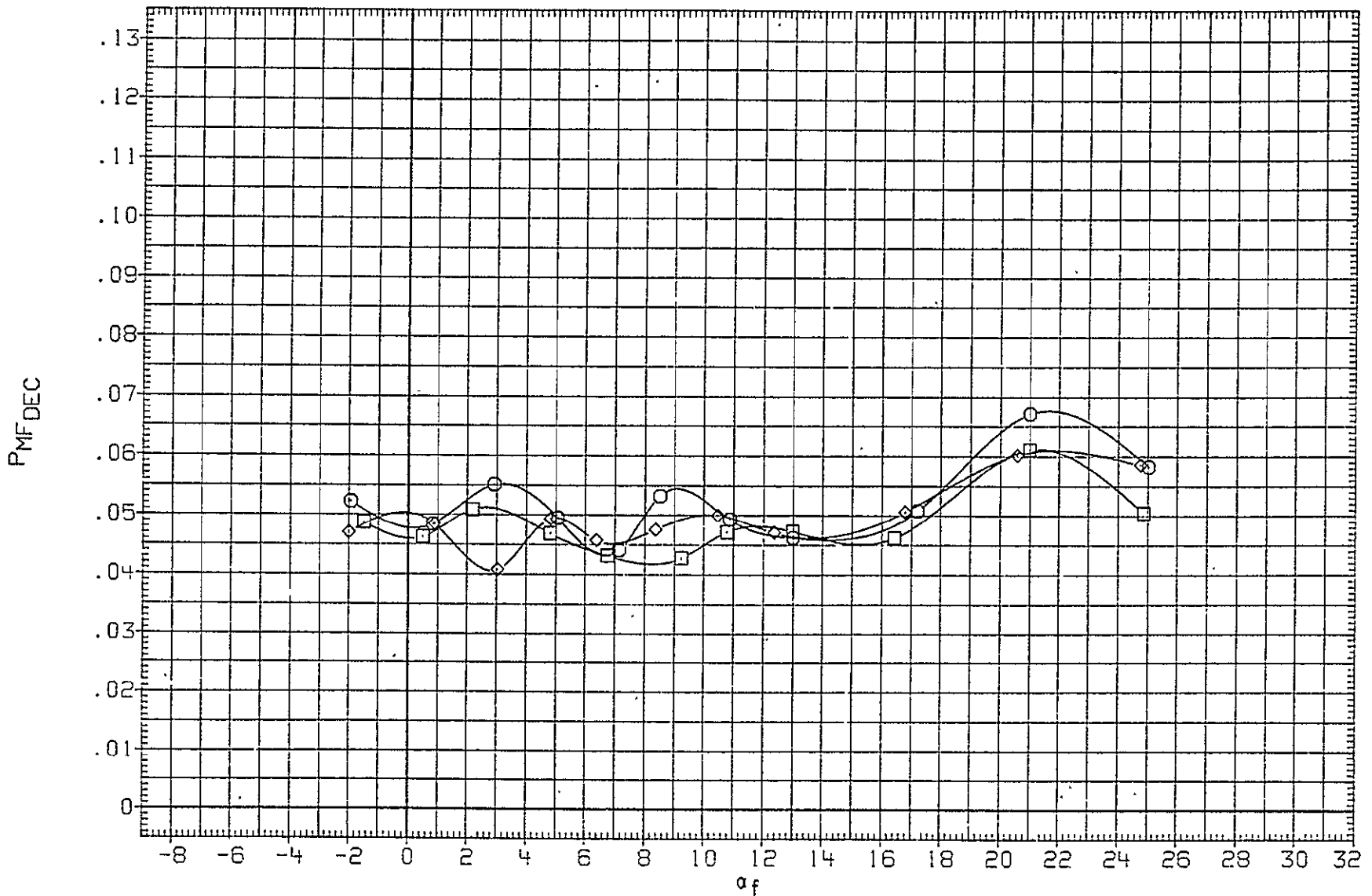


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

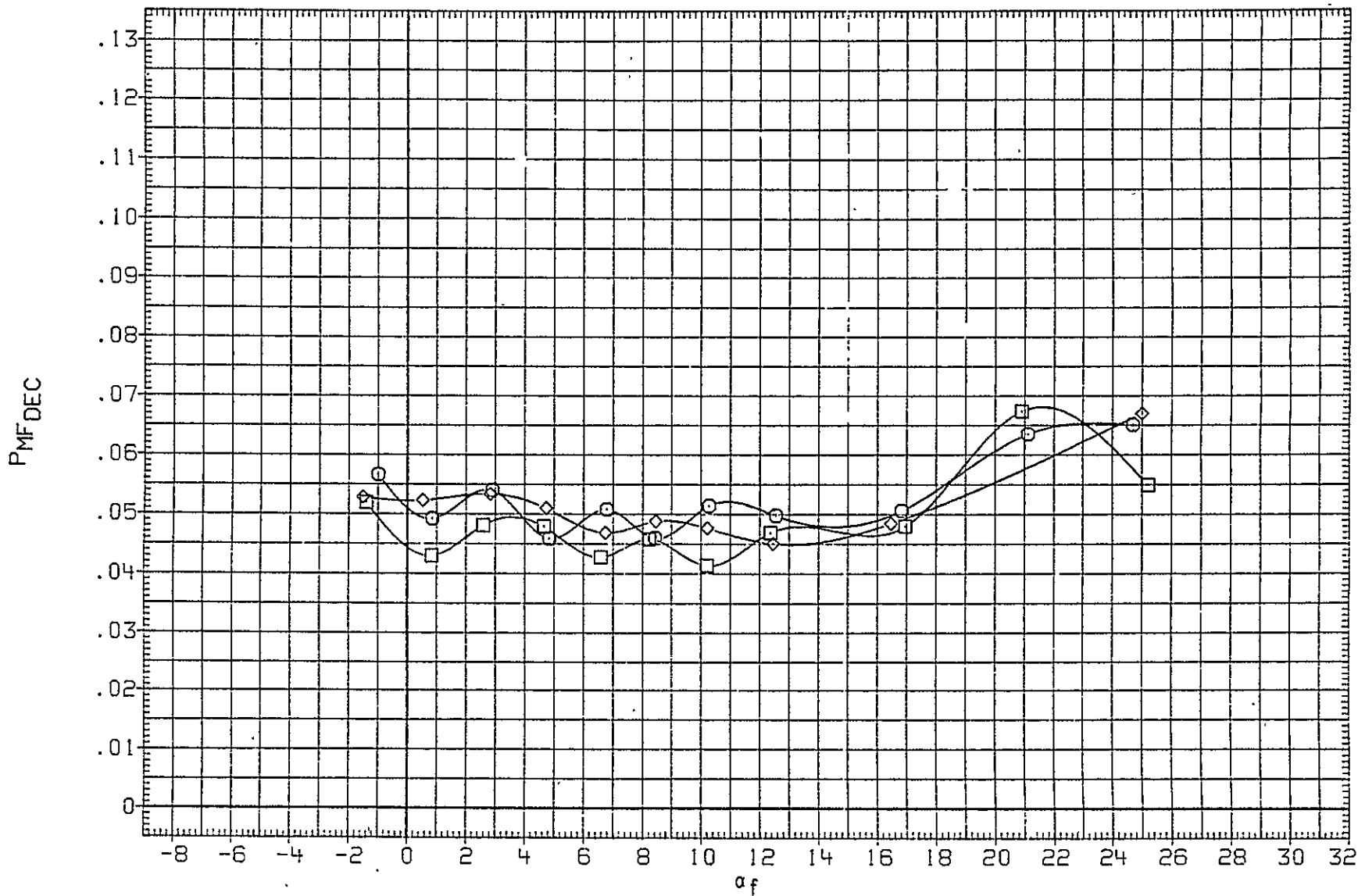


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

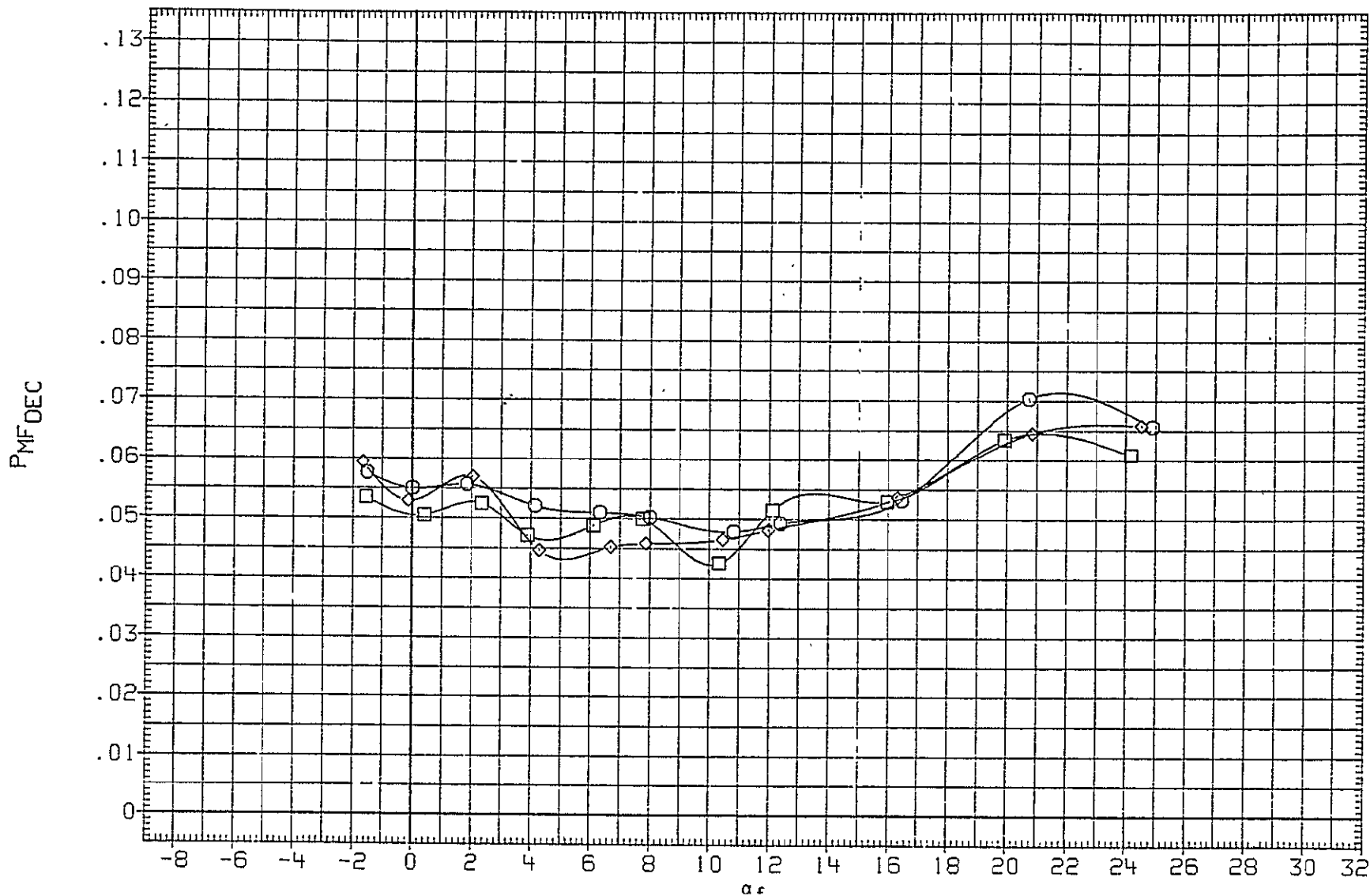


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW
 (D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAF	PHI-N
(JNL011)	○	ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM	2.000	.010	.000

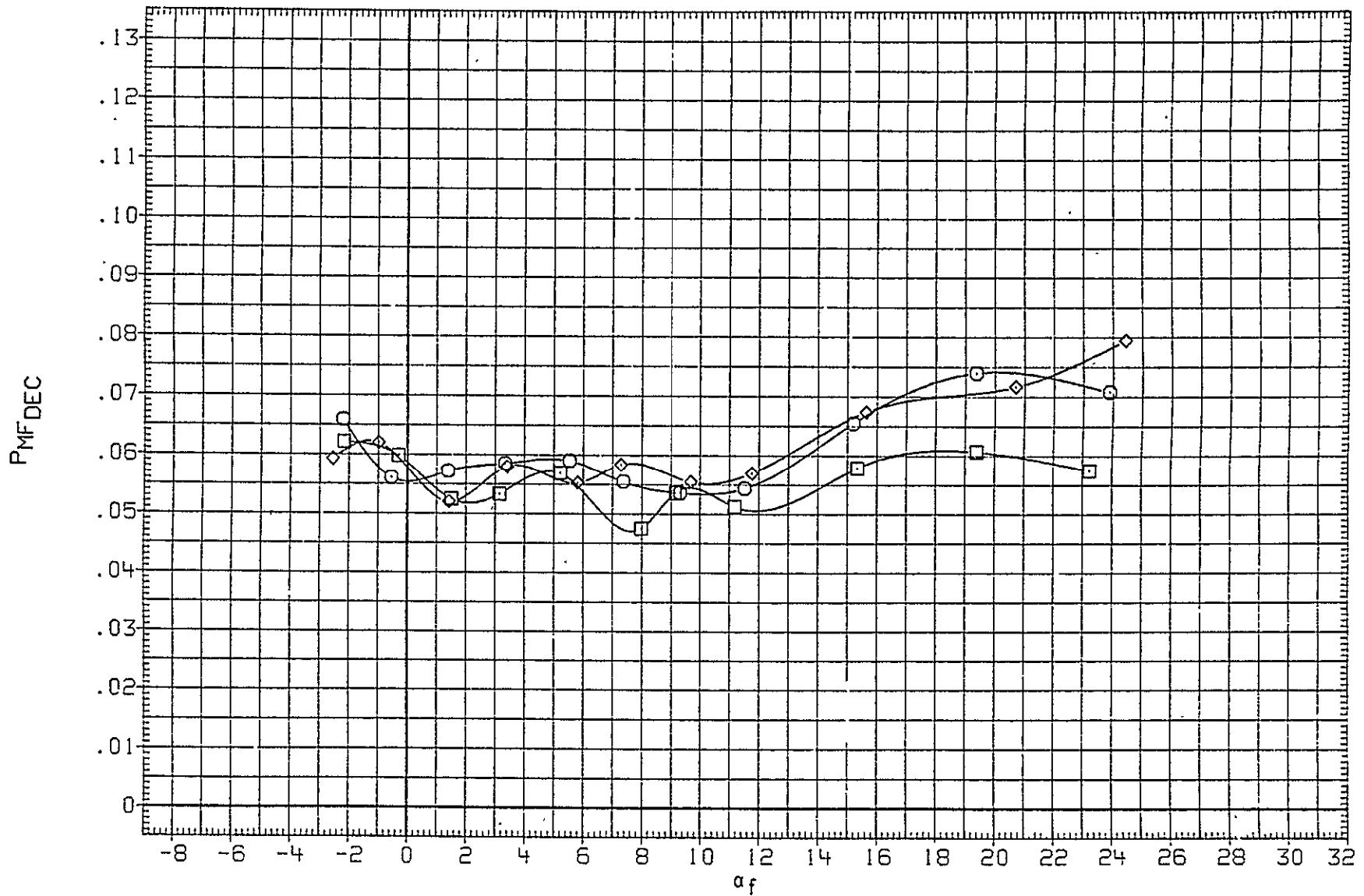


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

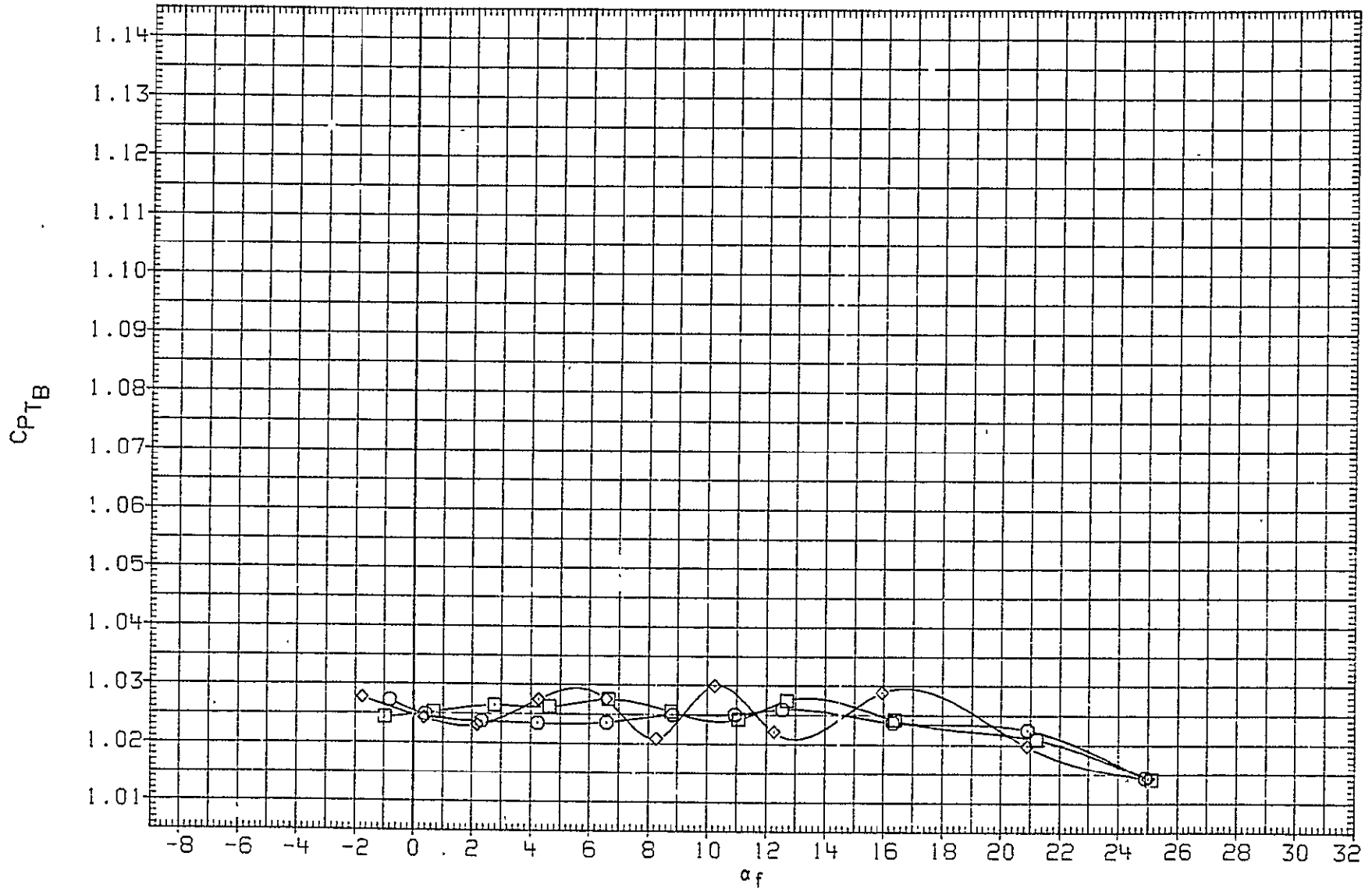


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

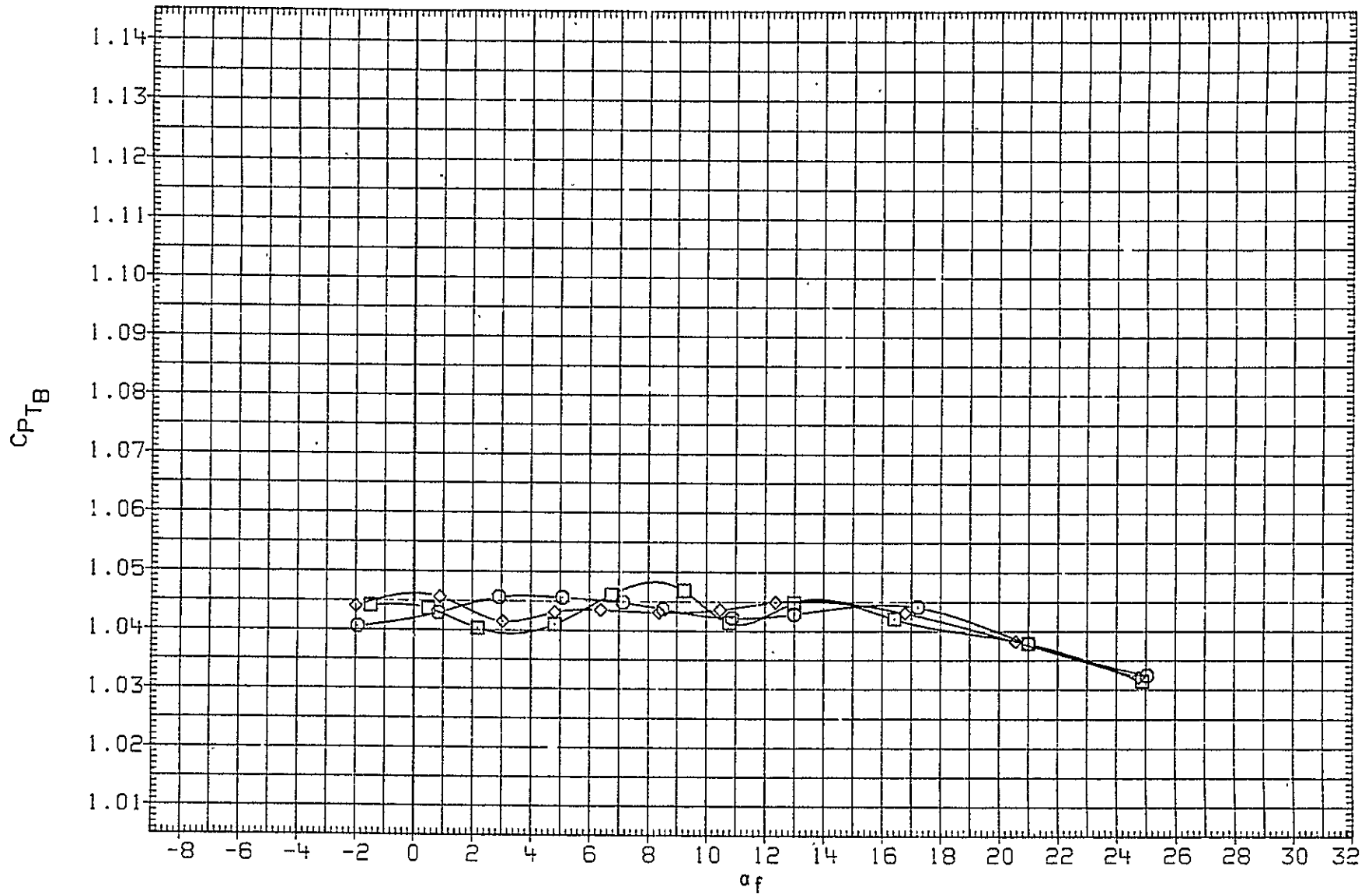


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW
 (B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

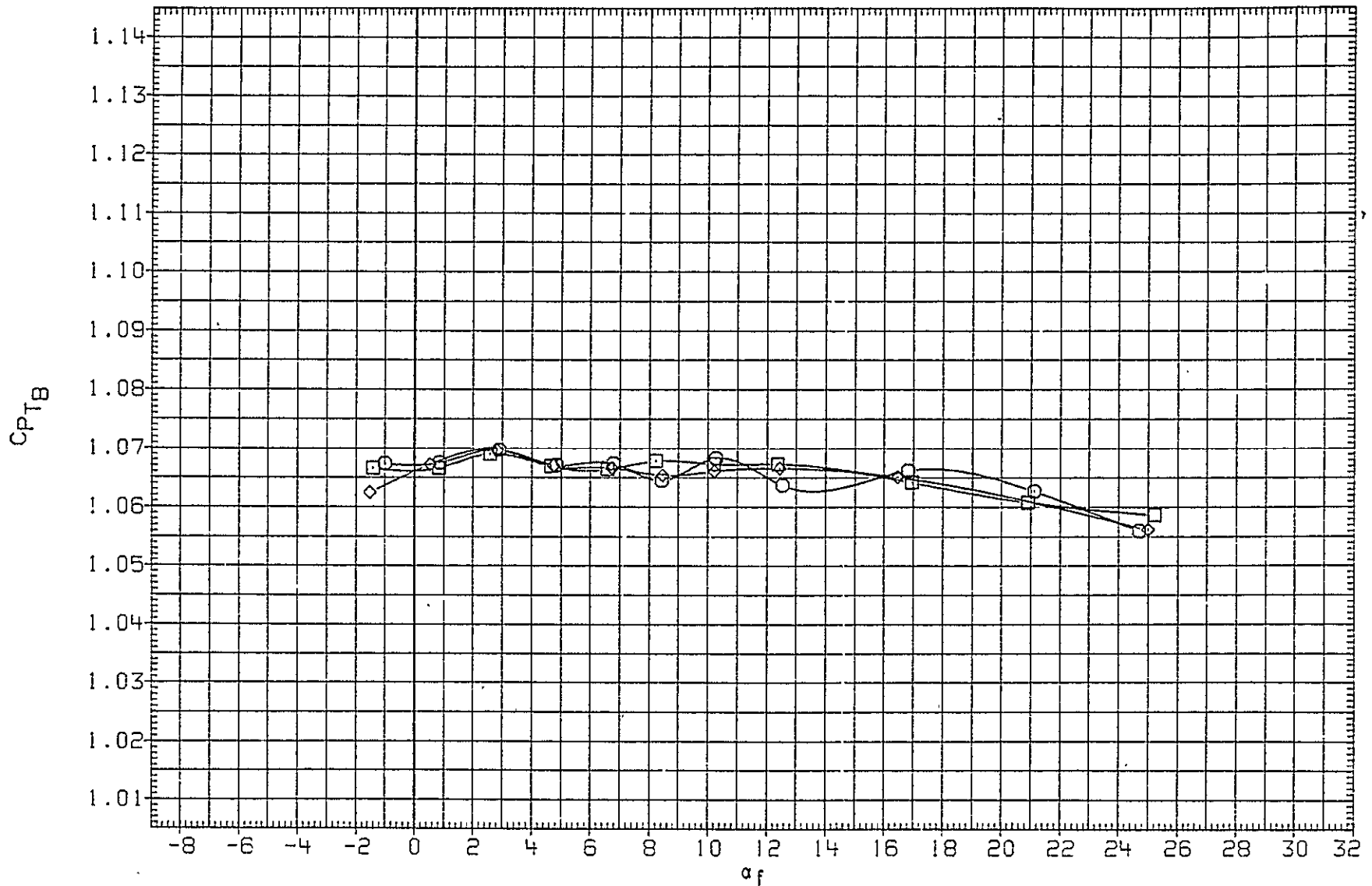


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(C)MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

BETA	TPSGAP	PHI-N
.000	.010	.000
-2.000	.010	.000
2.000	.010	.000

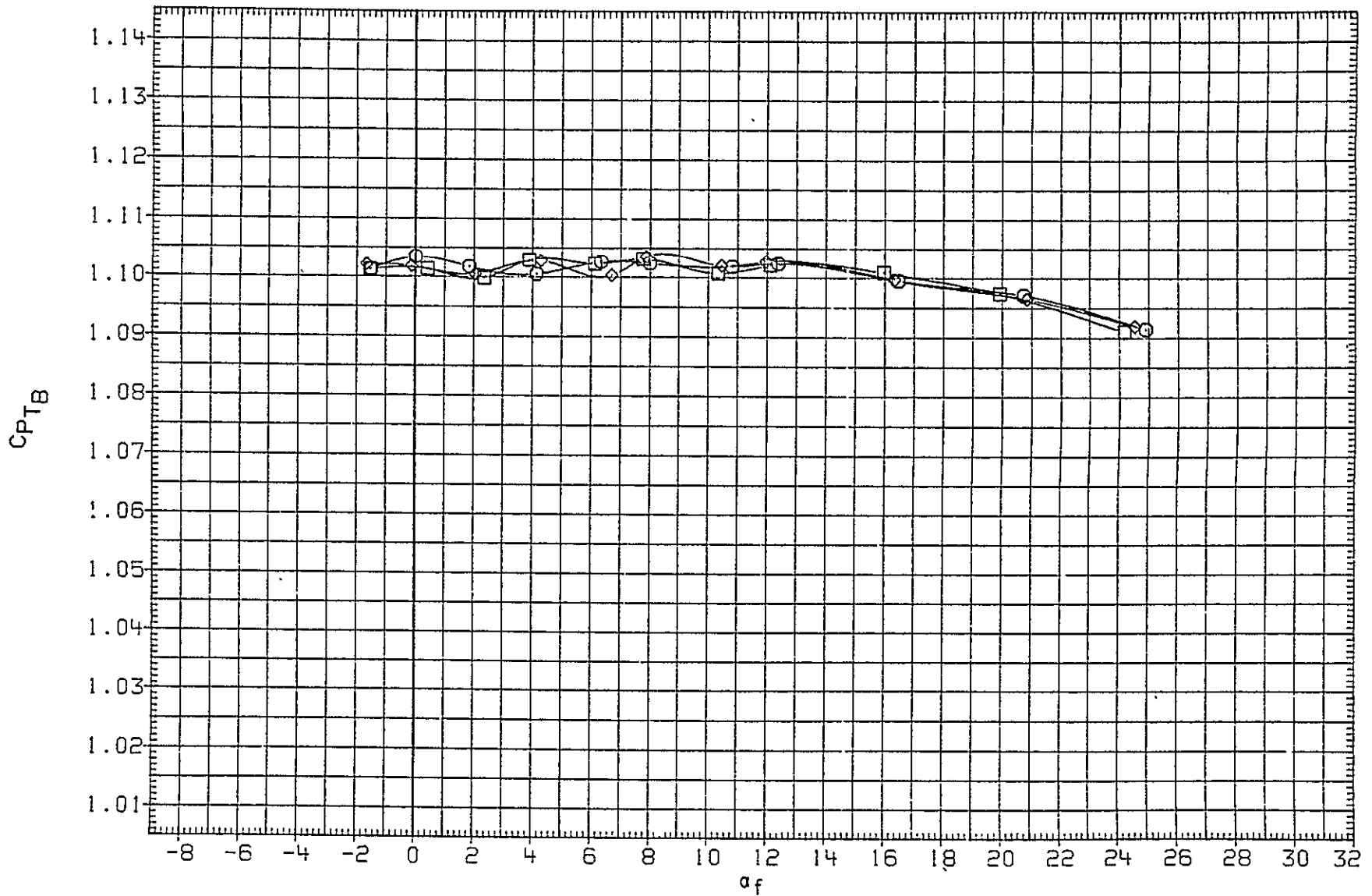


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.013	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.013	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.013	.000

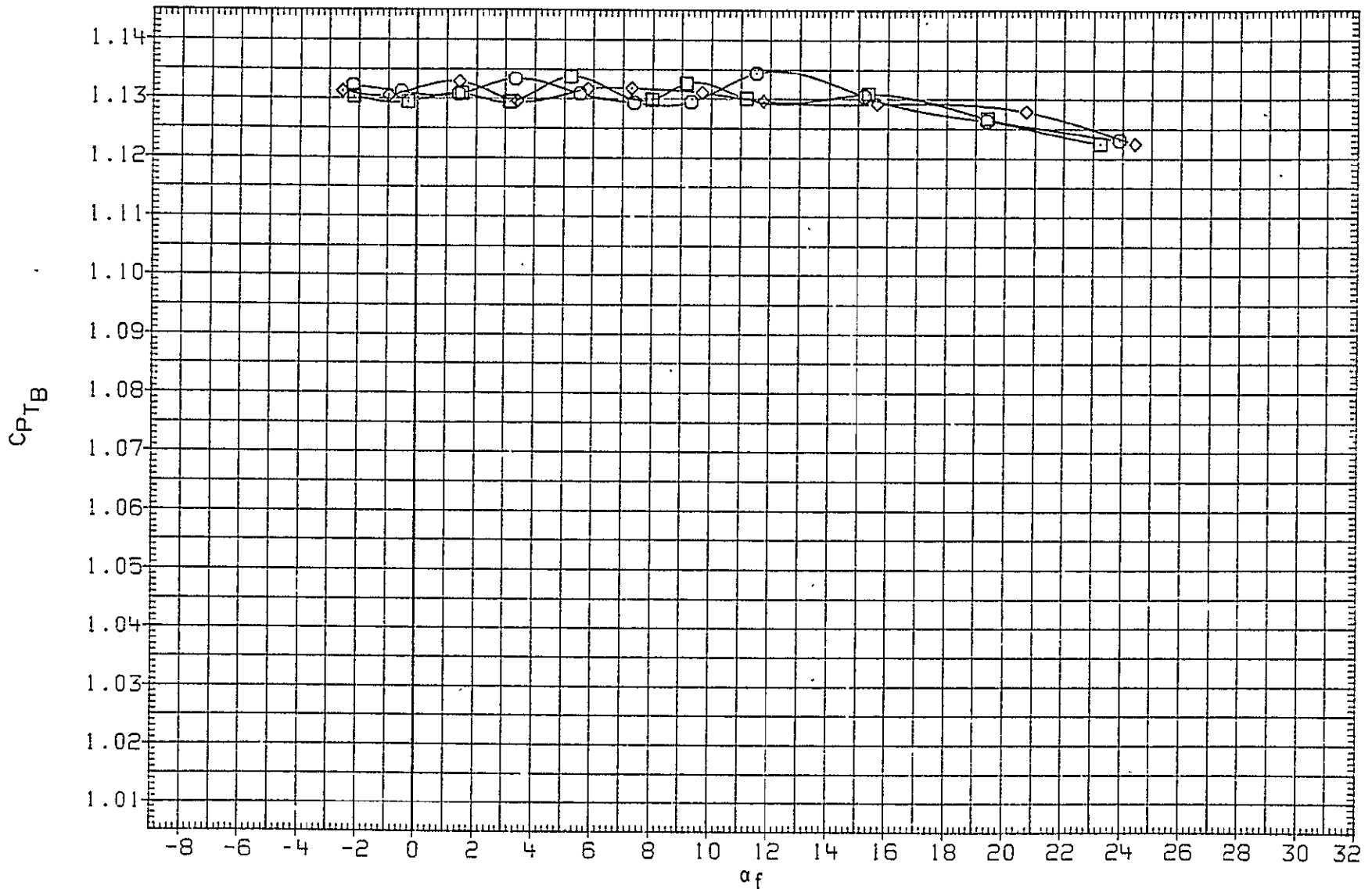


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

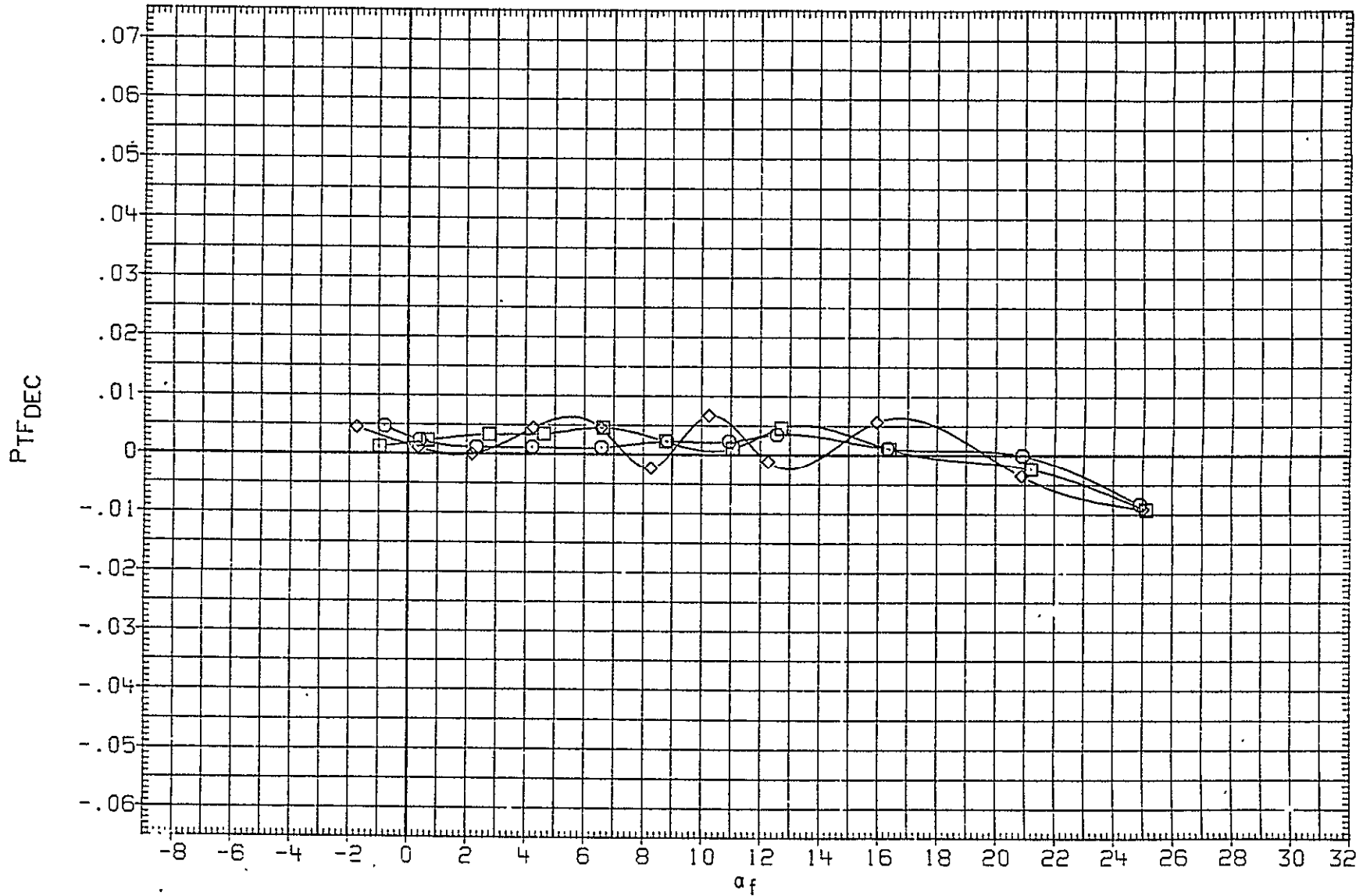


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

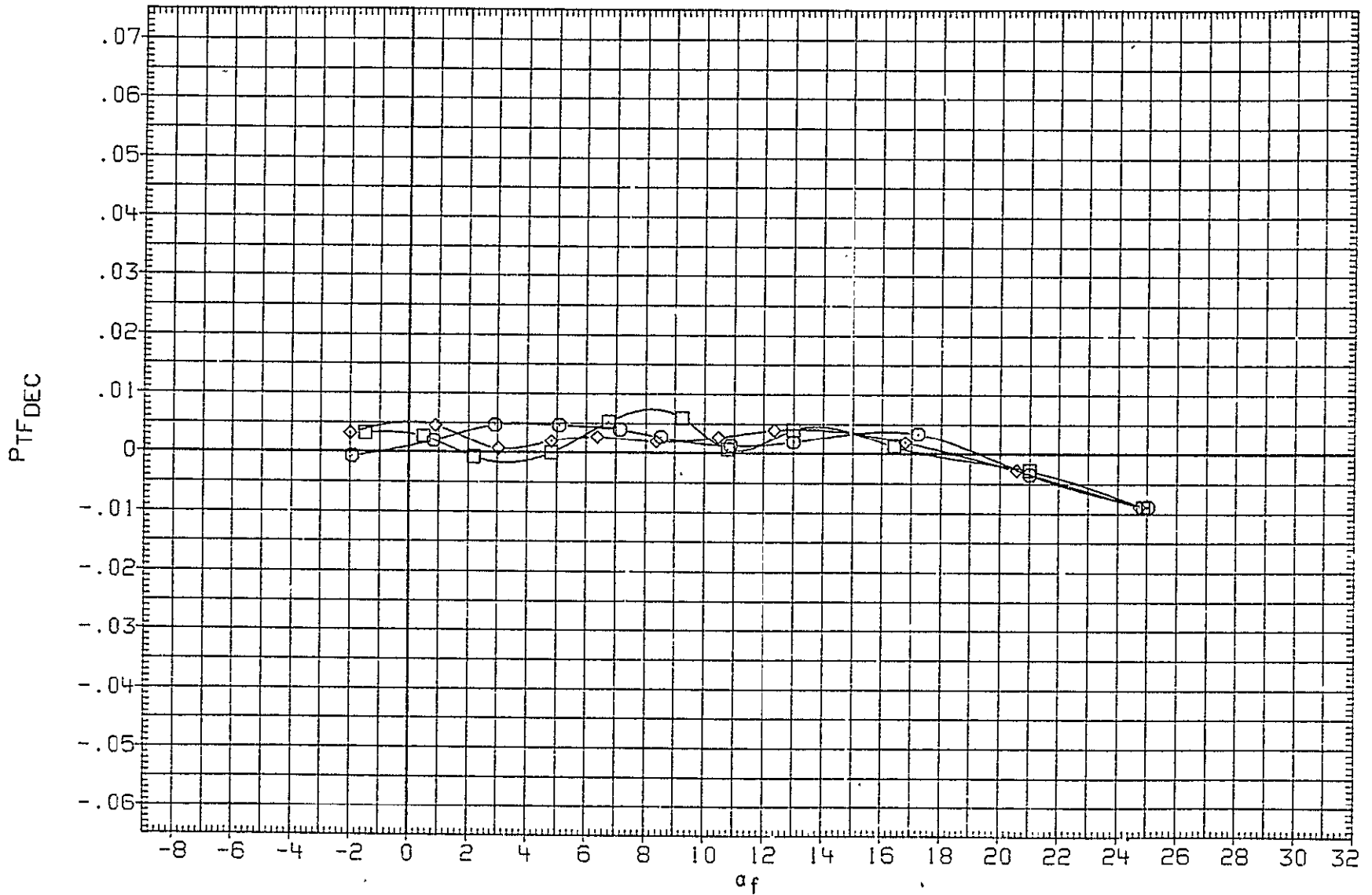


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

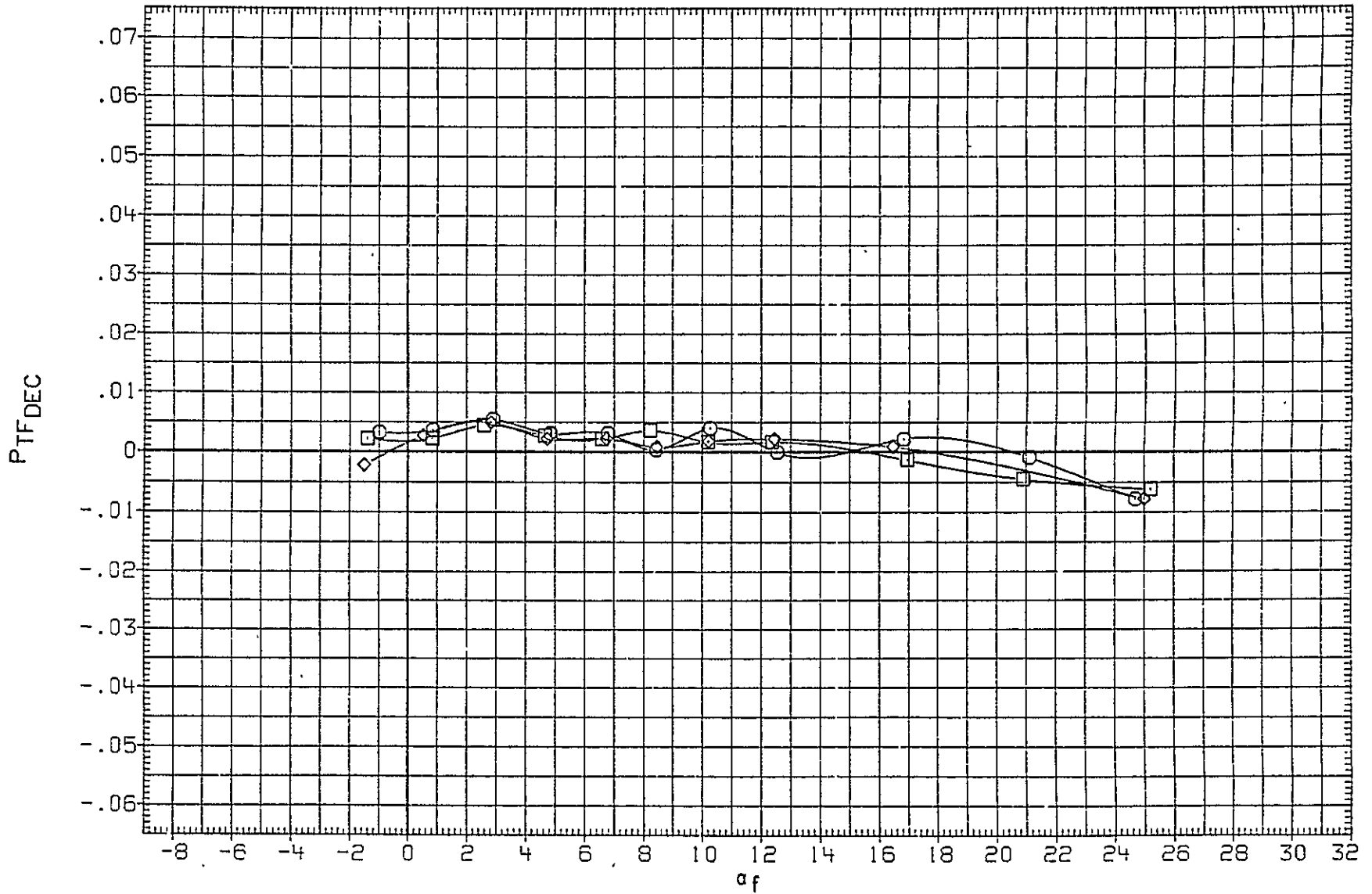


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(C) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.013	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.013	.000

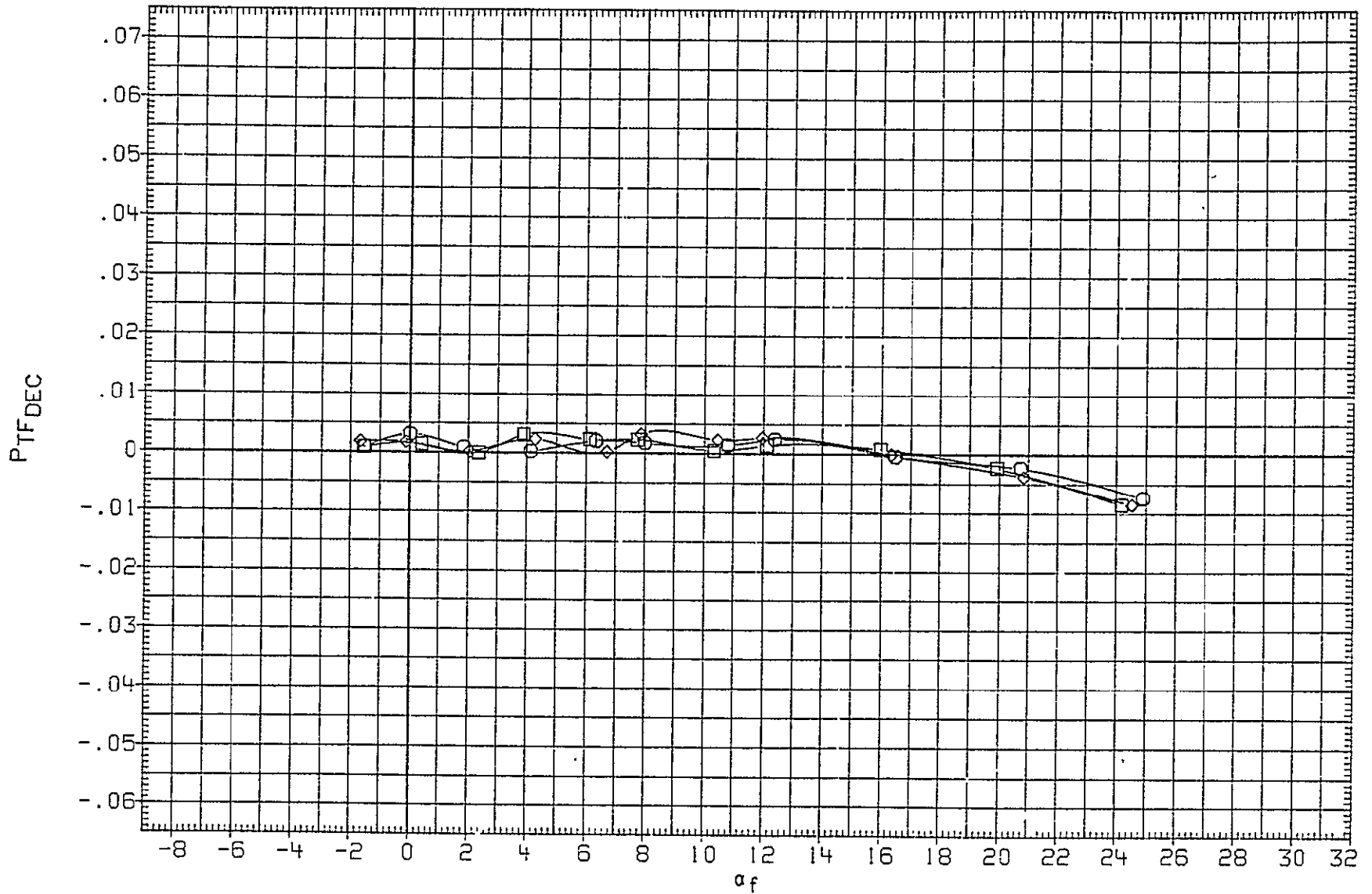


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.013	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.013	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.013	.000

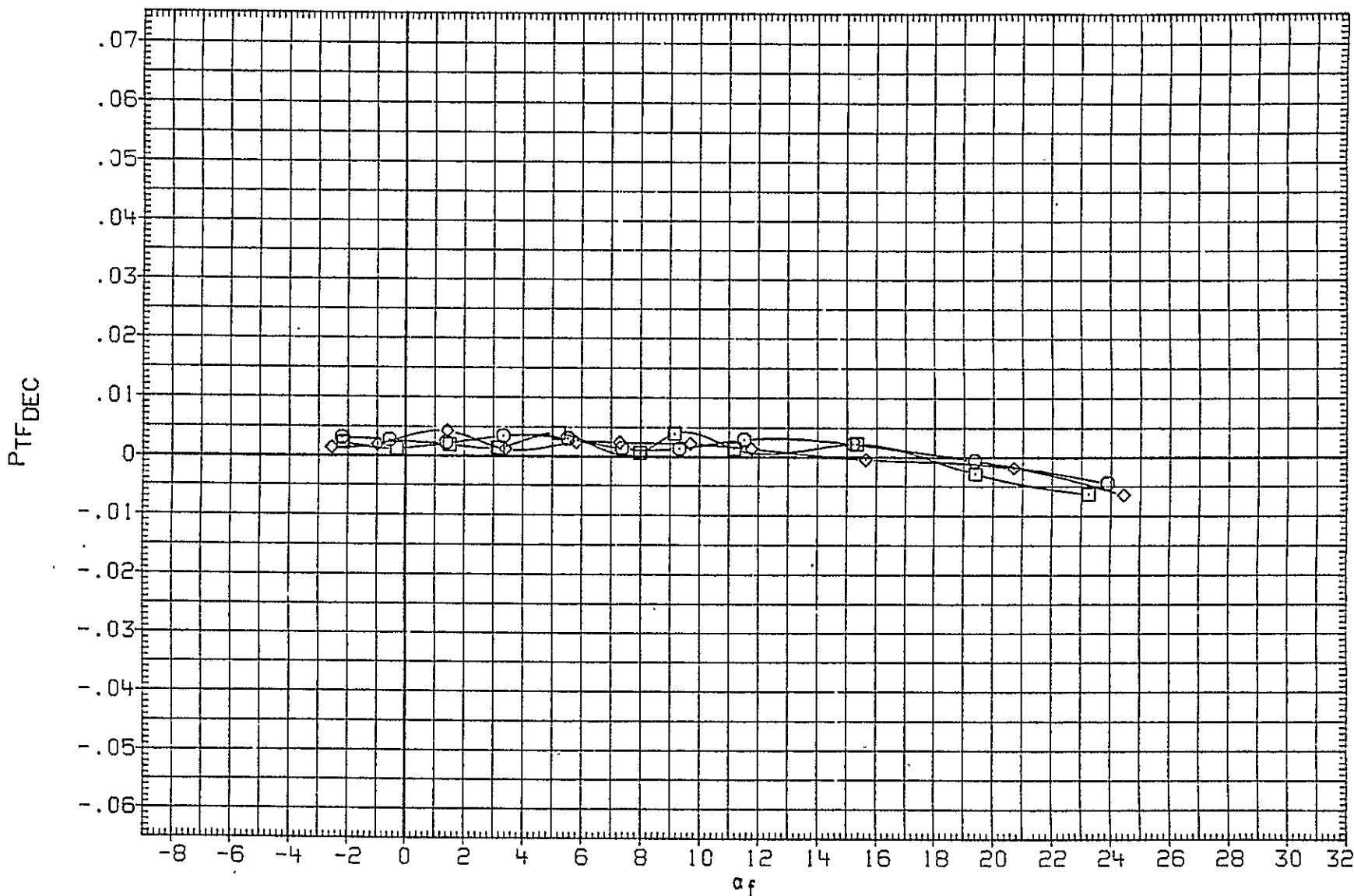


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(E) MACH = .70

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

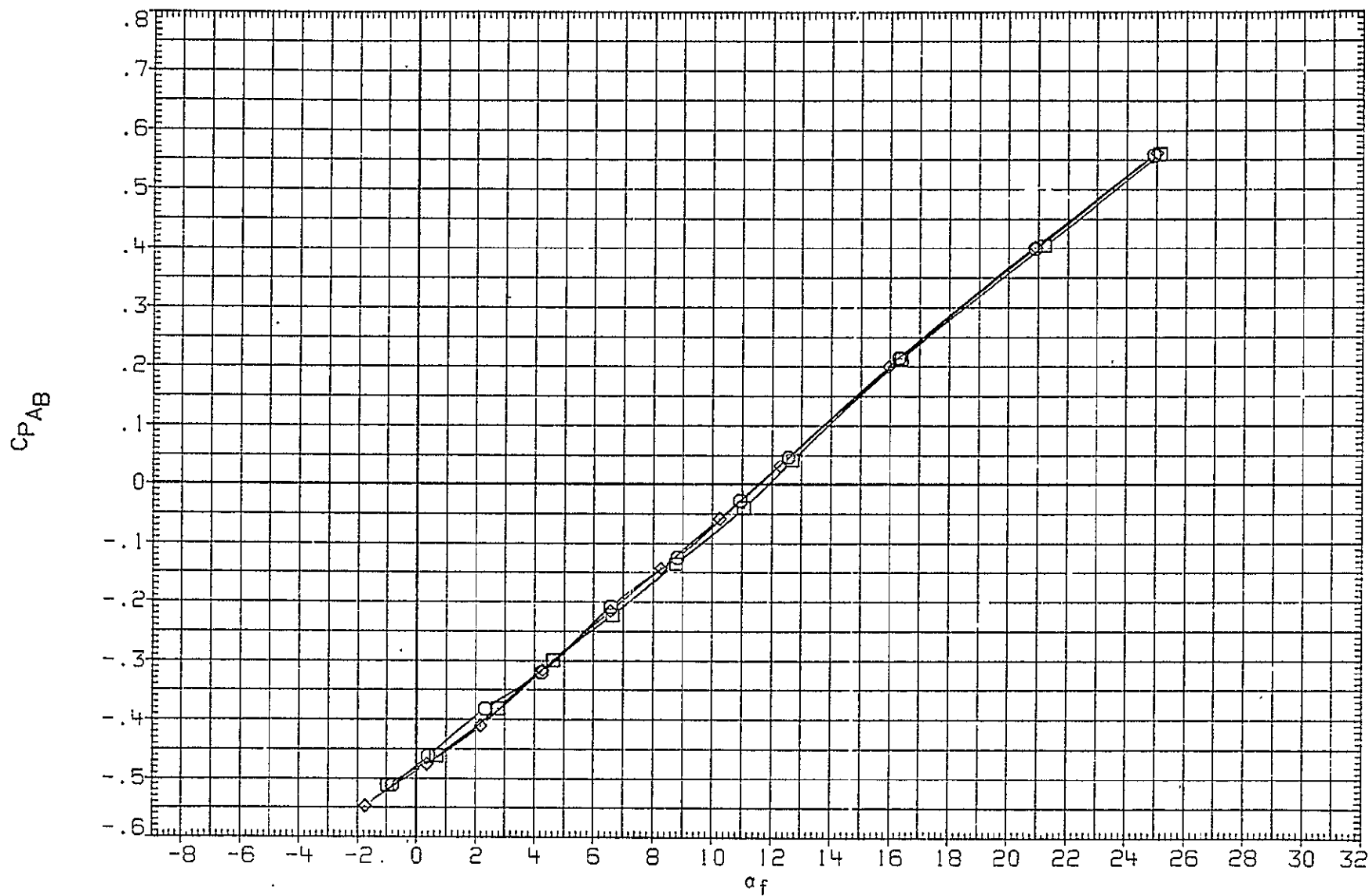


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

BETA	TPSGAP	PHI-N
.000	.010	.000
-2.000	.010	.000
2.000	.010	.000

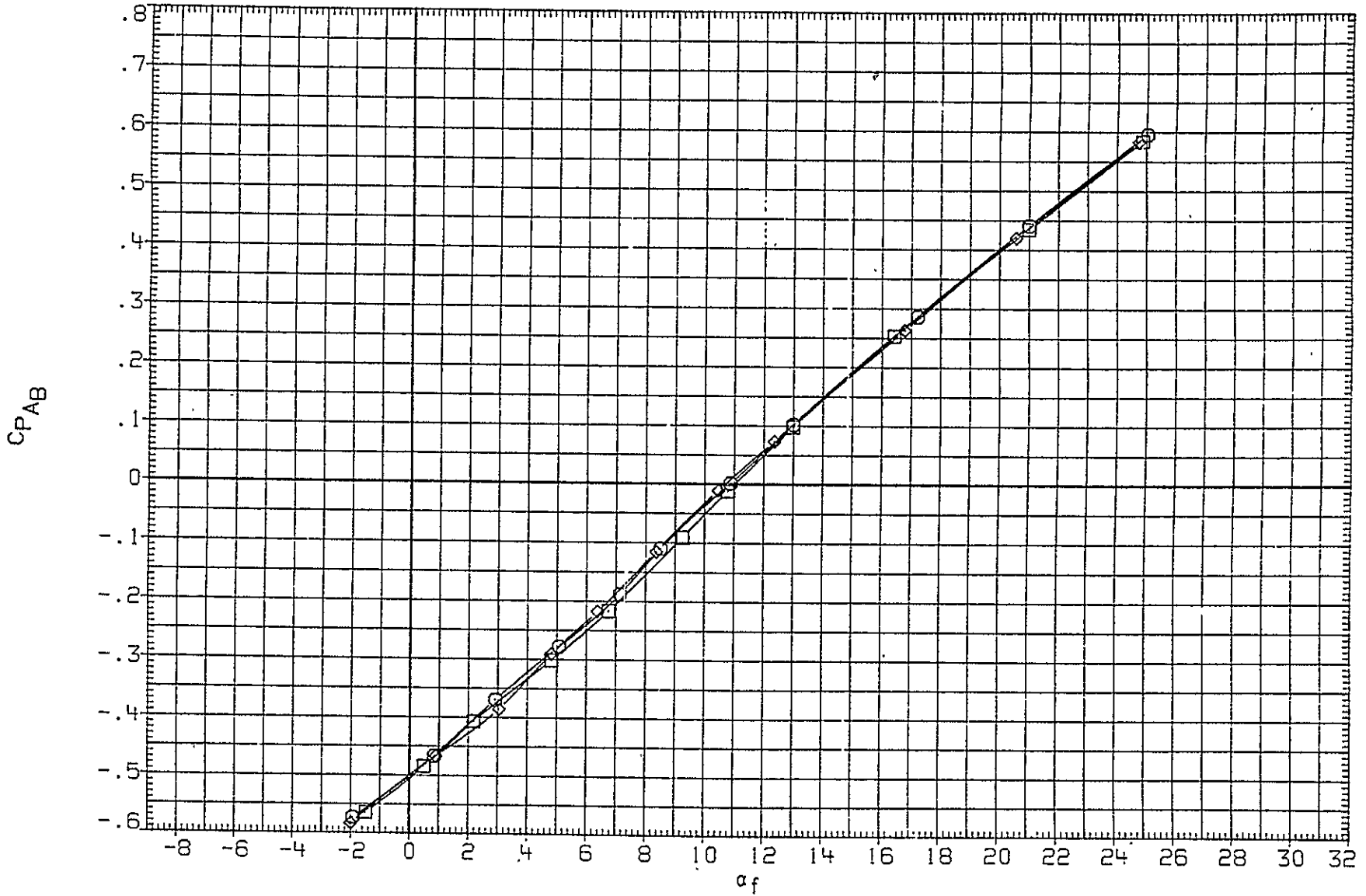


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(B) MACH = .40

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAI ³	PHI-N
(JNLO11)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNLO13)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNLO14)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

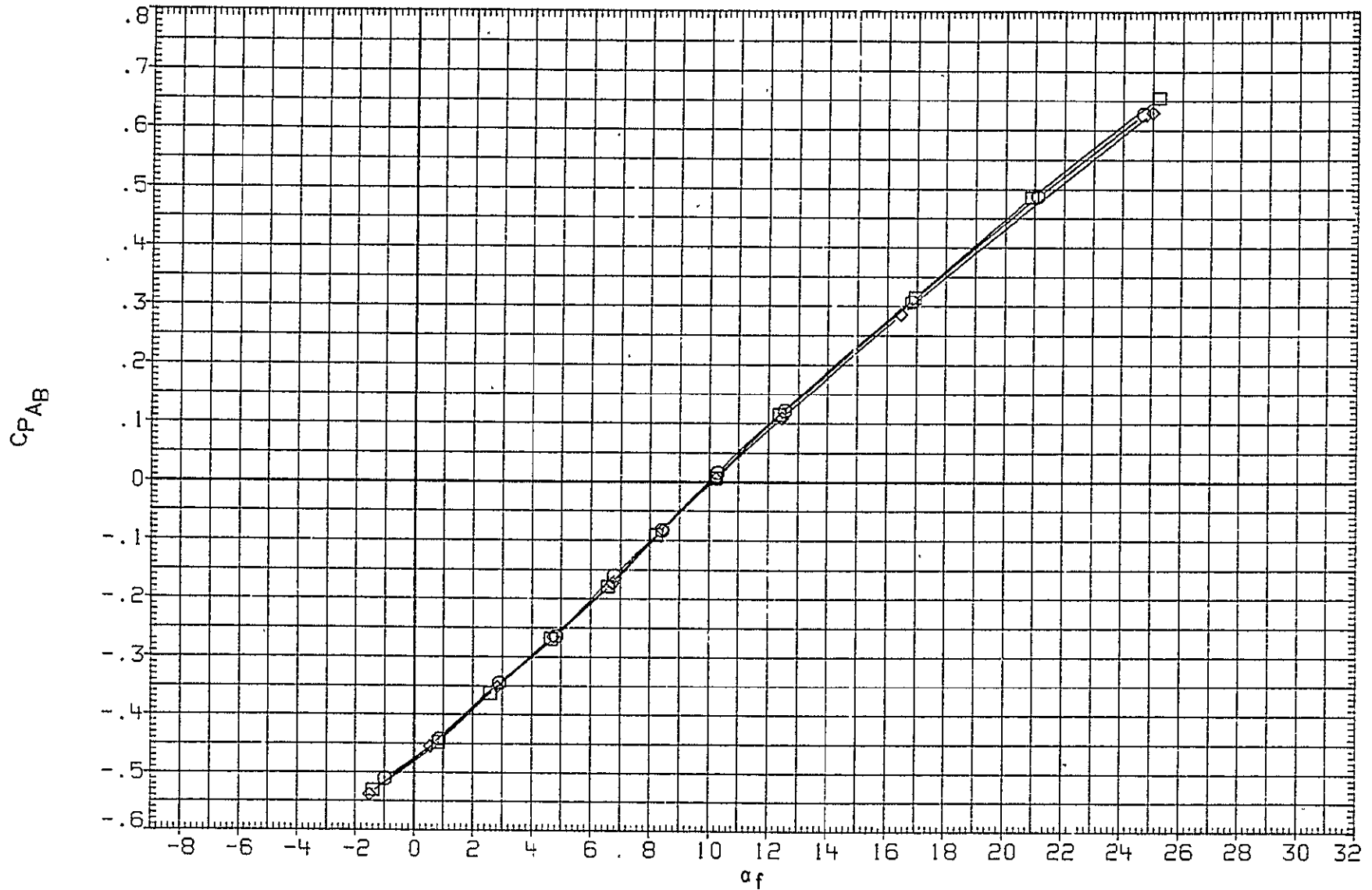


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

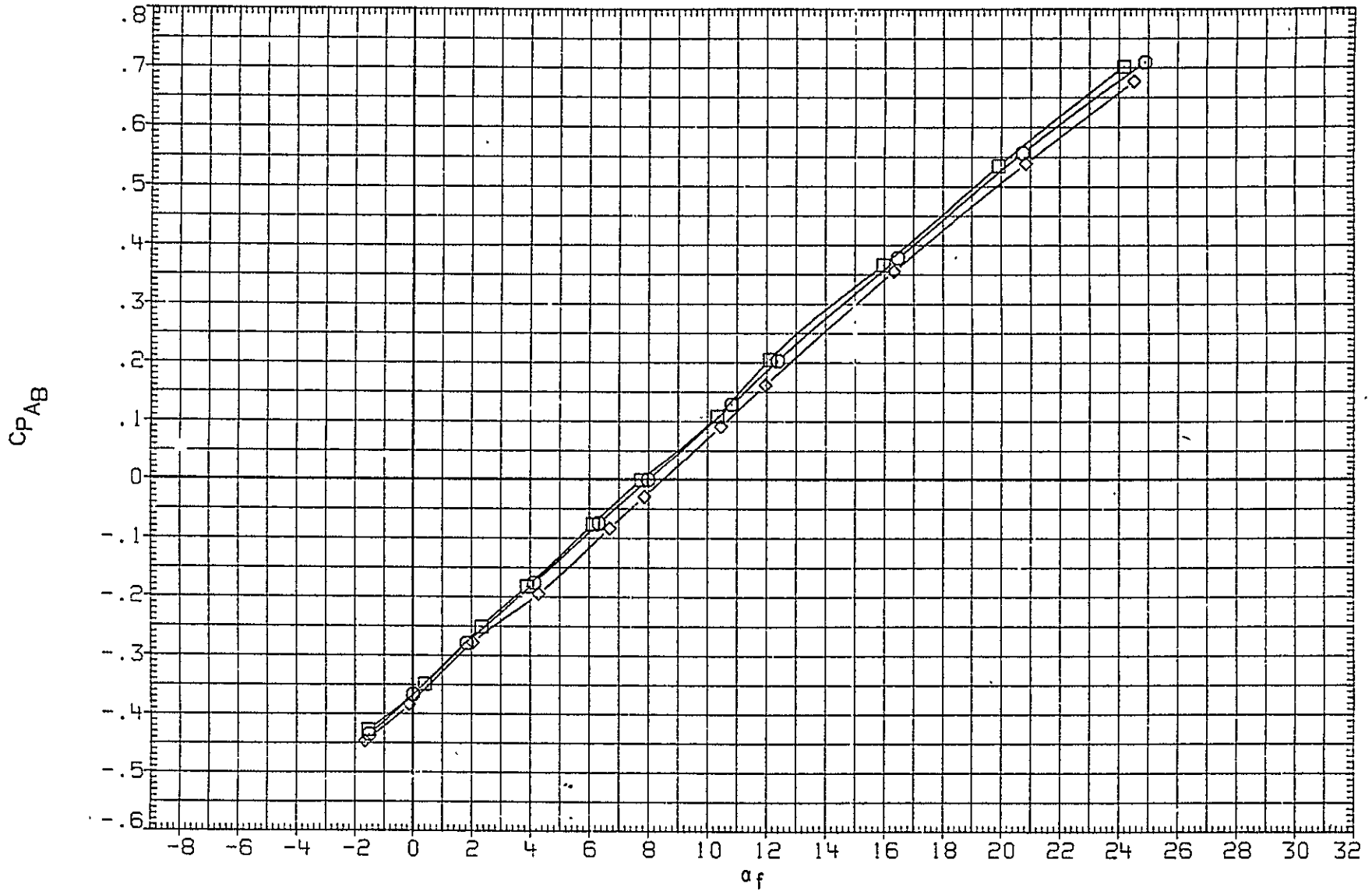


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(D) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSCAP	PHI-N
(JNL011)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(JNL013)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(JNL014)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

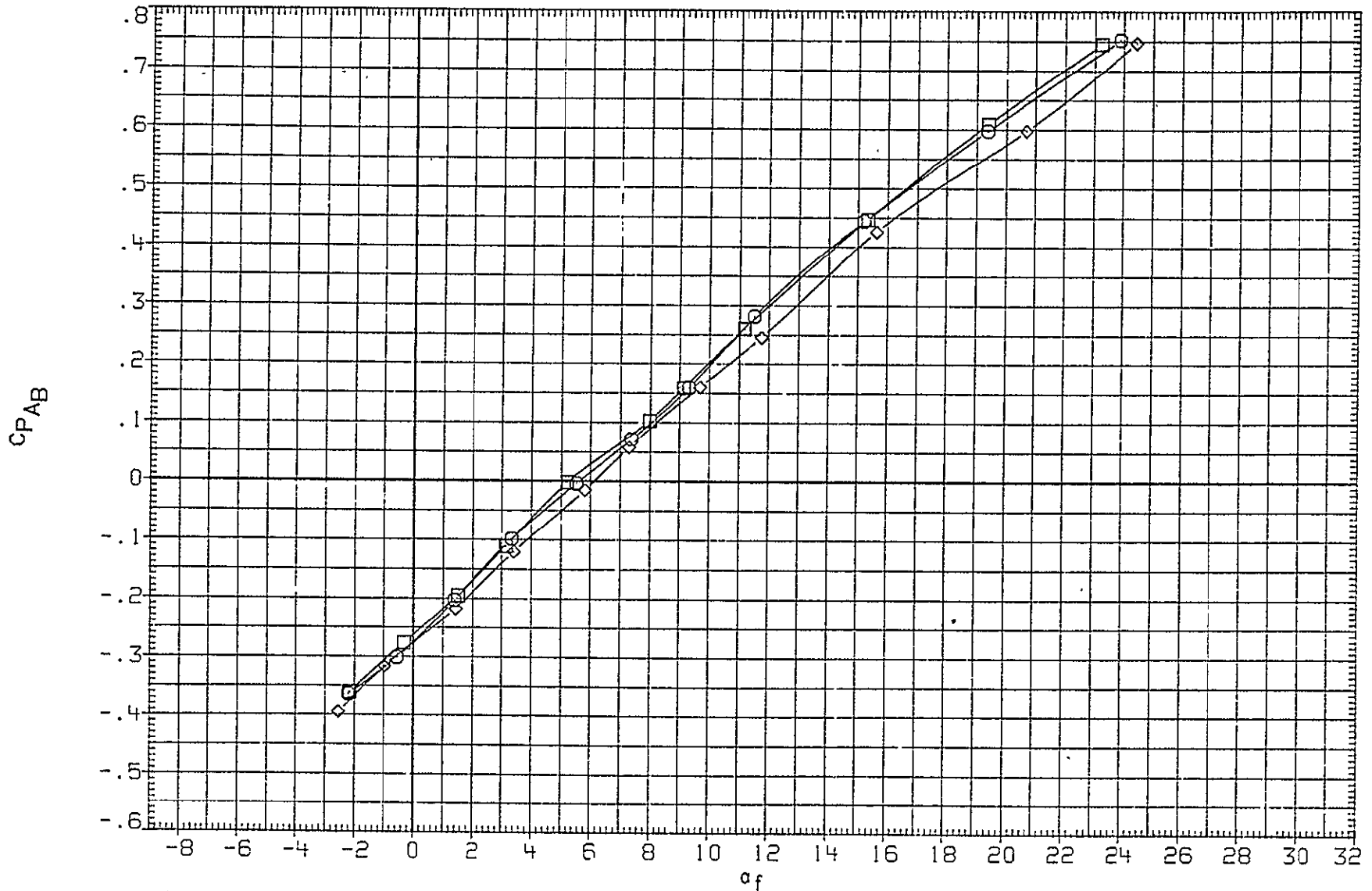


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(E)MACH = .70

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	TPSGAP
○	-2.000	.300		.010
◇	.000		.000	
△	2.000			
□	4.000			
○	6.000			
◇	8.000			

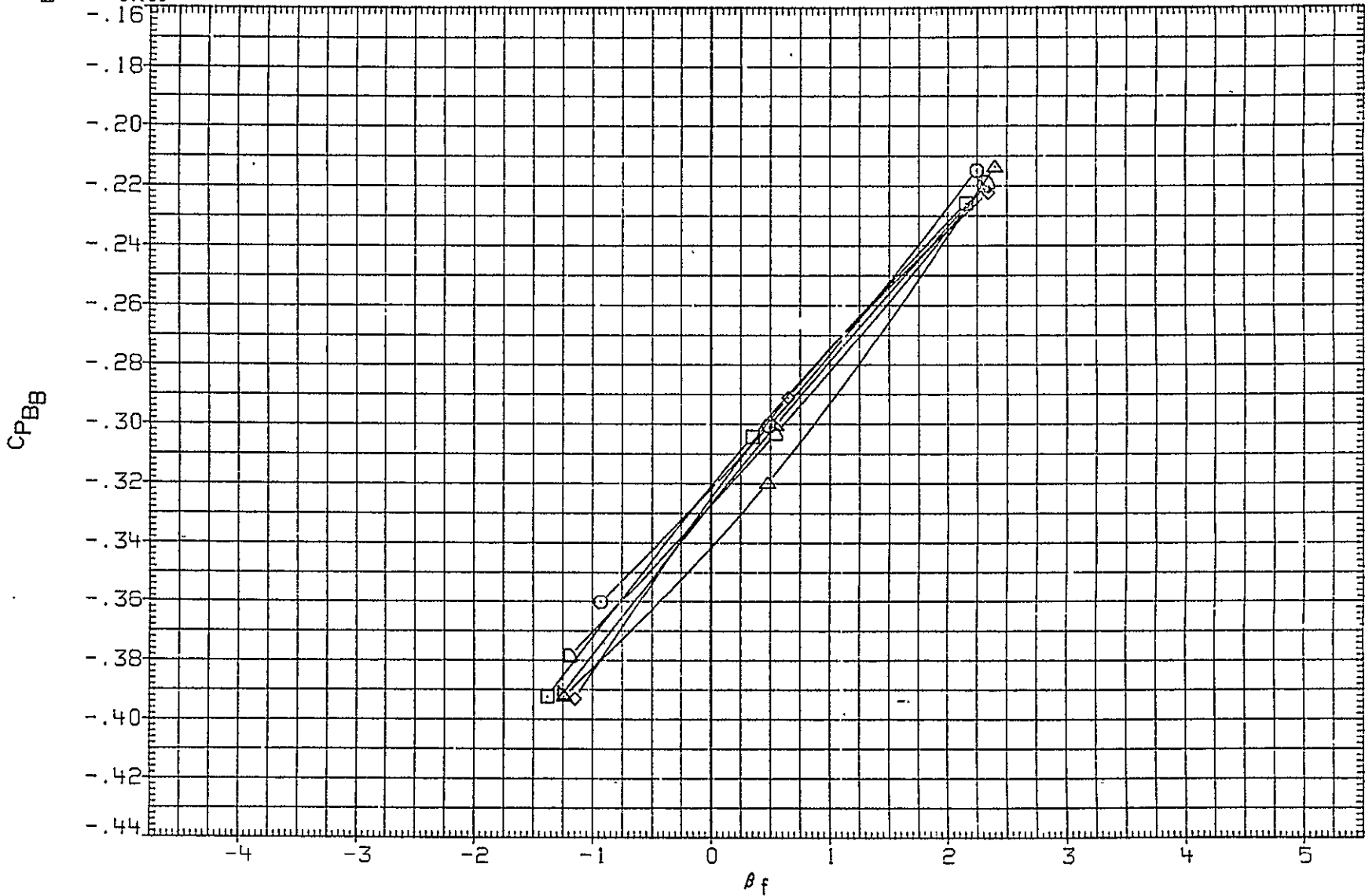


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(SNL030) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	TPSGAP	
○	10.000		.300		.010
□	12.000	PHI-N	.000		
◇	16.000				
△	20.000				
▽	24.000				

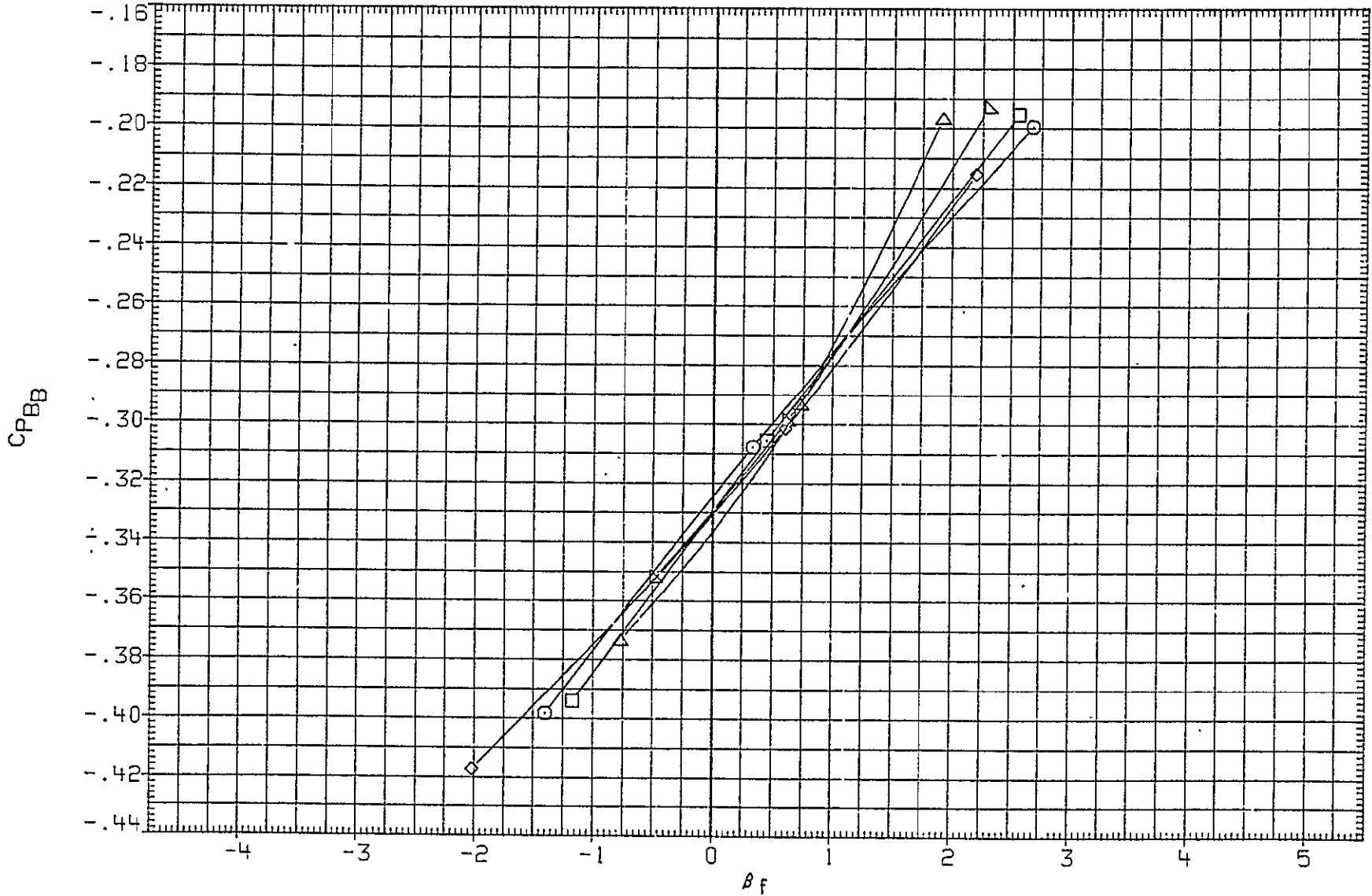


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

SYMBOL	ALPHA	PARAMETRIC VALUES		
	MACH	PHT-N	TPSGAP	
○	-2.000	.400	.610	
◇	.000	.000		
△	2.000			
▽	4.000			
□	6.000			
◇	8.000			

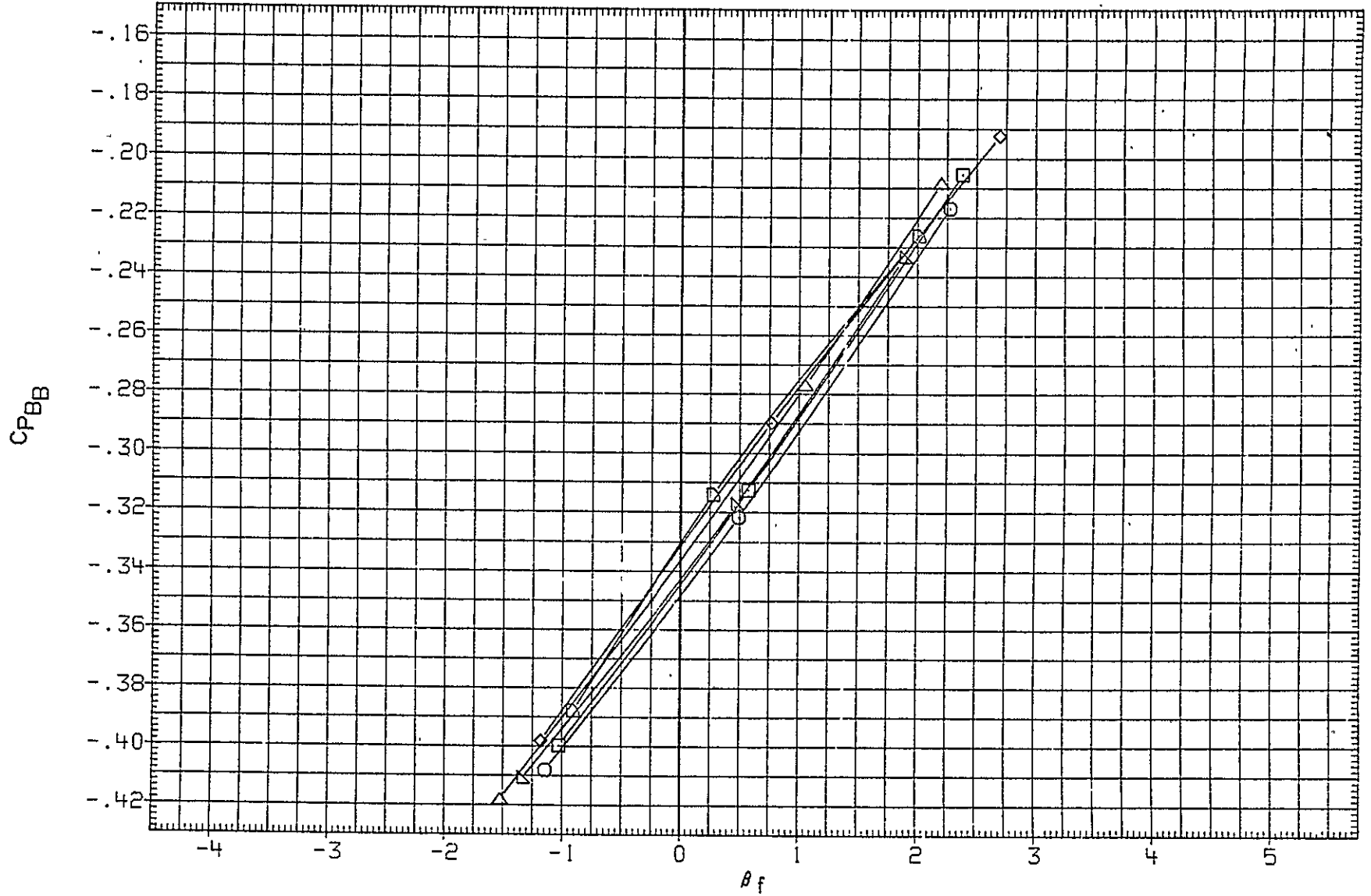


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(SNL040) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		
○	10.000		.400	TPSGAP	.010
□	12.000	PHI-N	.000		
◇	16.000				
△	20.000				
▽	24.000				

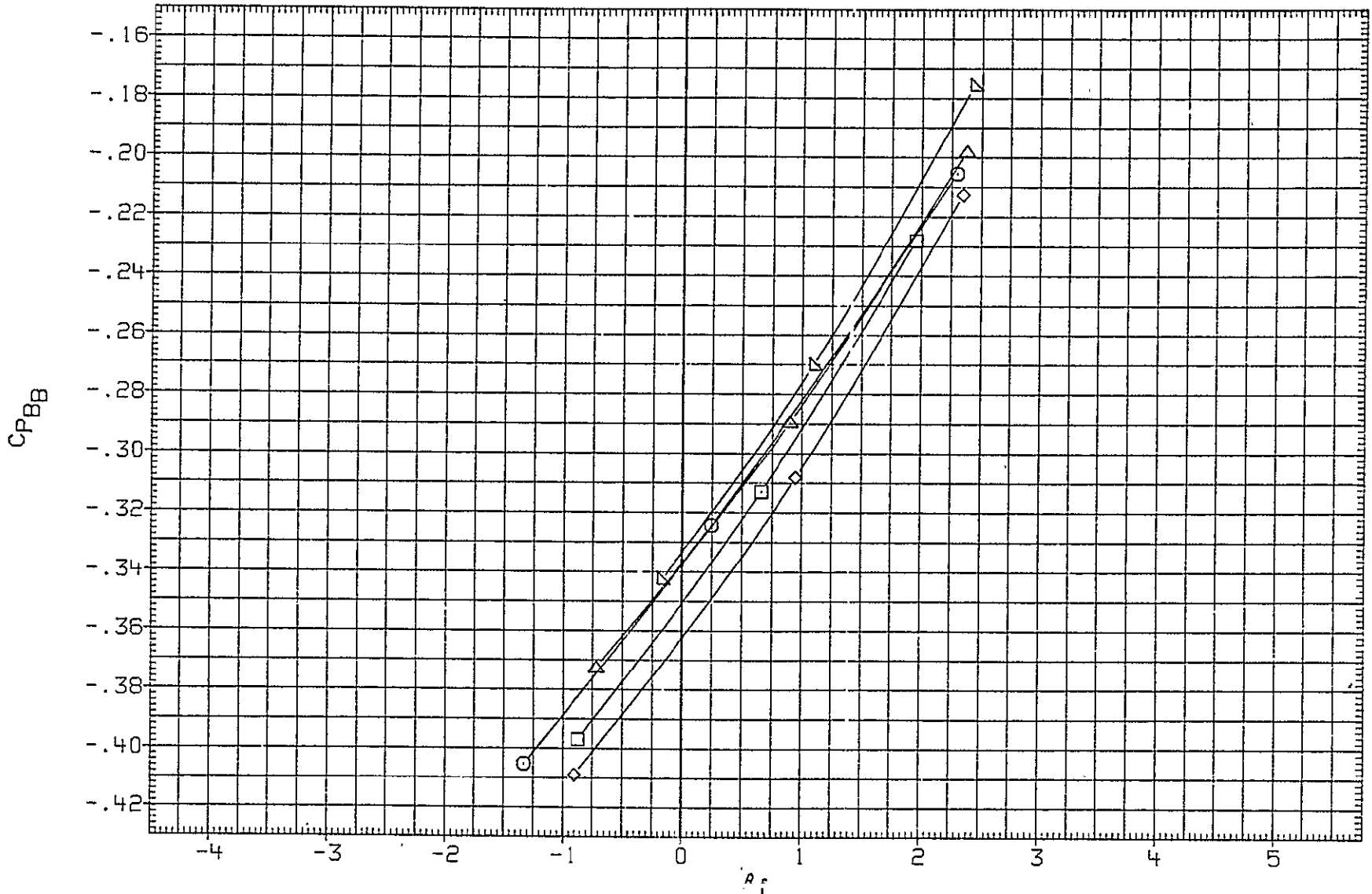


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

SYMBOL	ALPHA	PARAMETRIC VALUES			
	□	-2.000	MACH	.500	TPSGAP
◇	.000	PHI-N	.000		
△	2.000				
▽	4.000				
◇	6.000				
□	8.000				

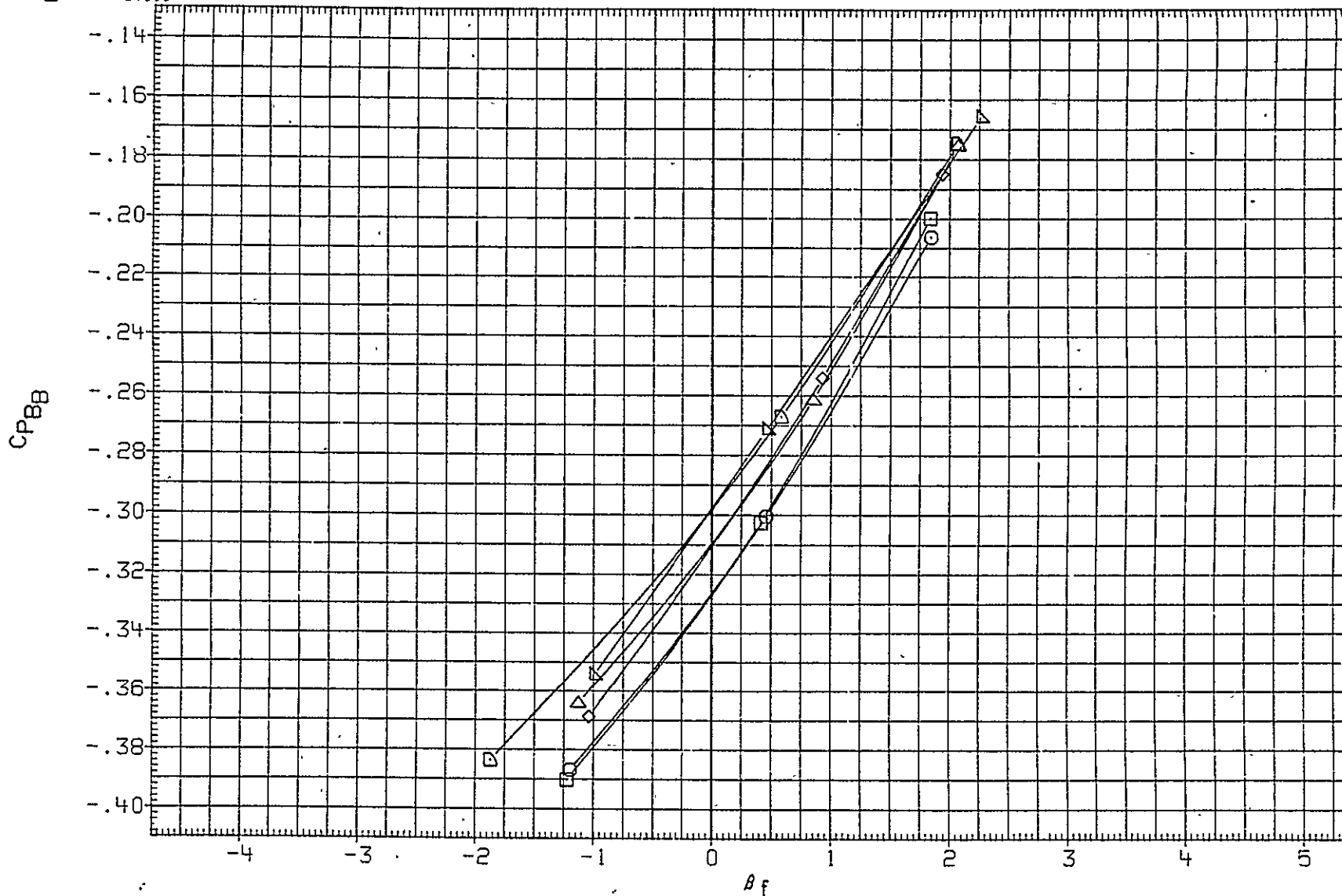


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(SNL050) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	MACH	.500	TPSGAP	.010
◇	12.000	PHI-N	.000		
△	16.000				
▽	20.000				
□	24.000				

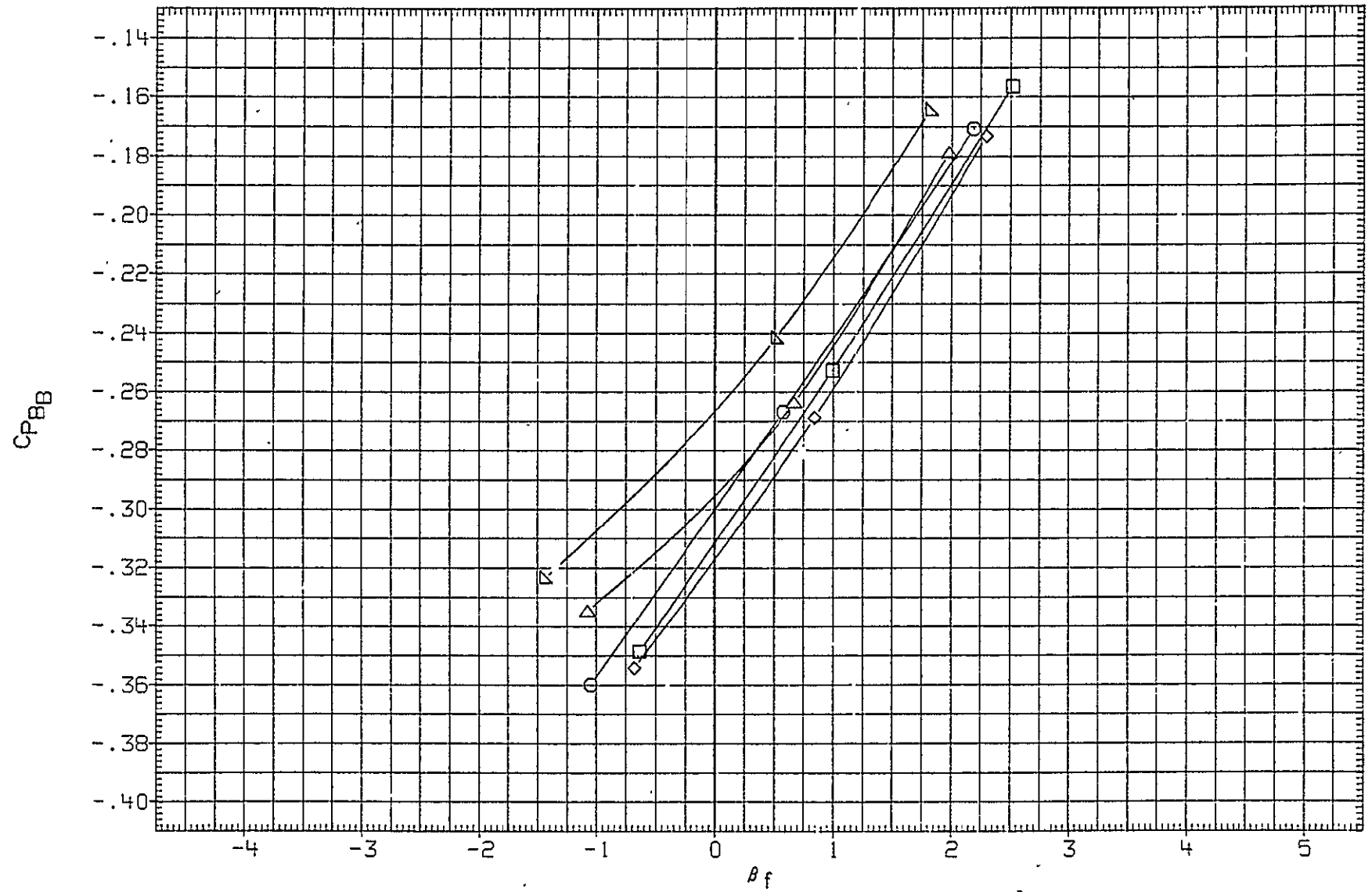


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	.010
○	-2.000			.620		
◇	.000			.000		
△	2.000					
□	4.000					
○	6.000					
○	8.000					

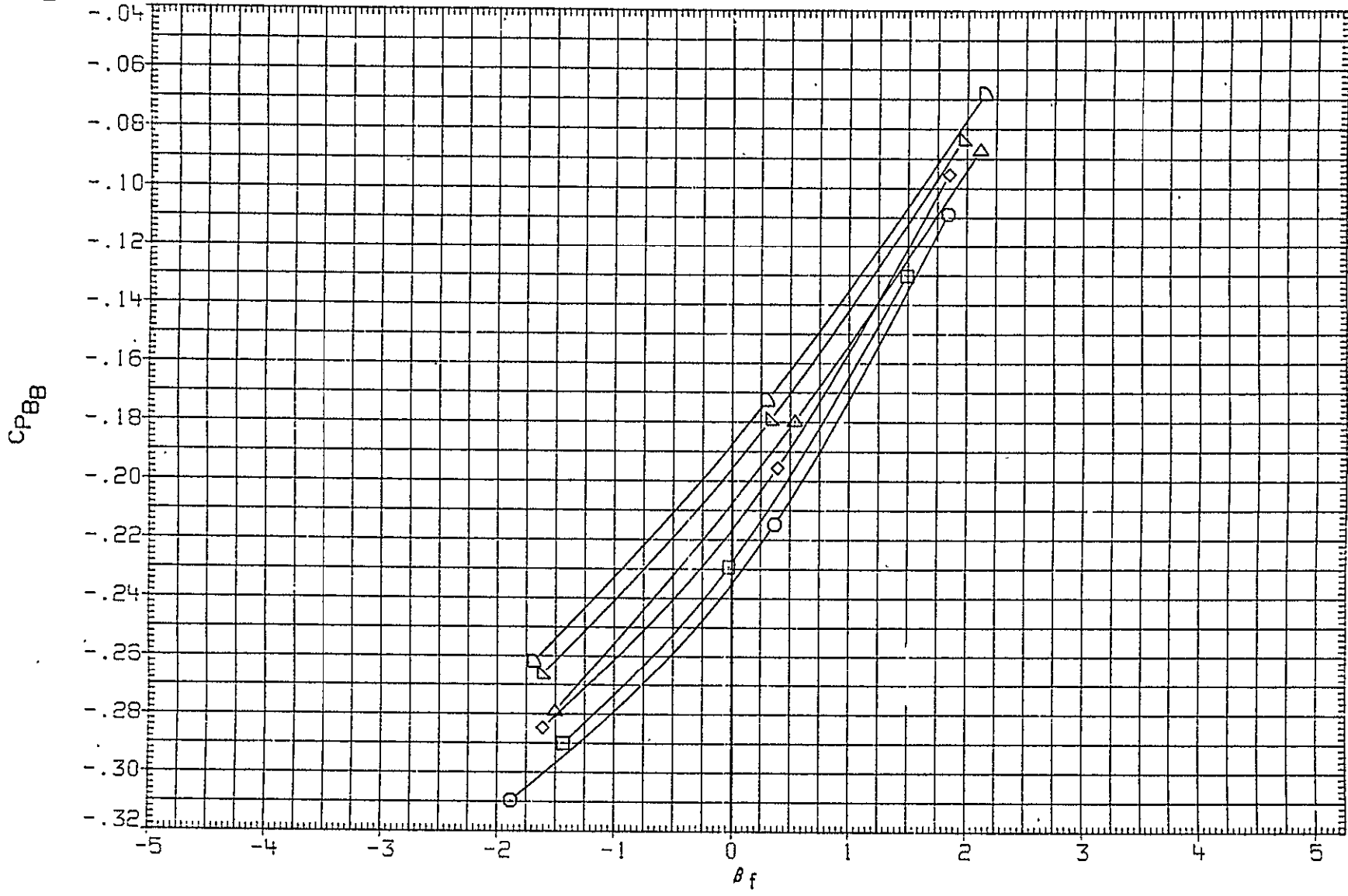


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(SNL062) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
○	10.000	MACH	.620	TPSGAP	.010
□	12.000	PHI-N	.000		
△	16.000				
◇	20.000				
▽	24.000				

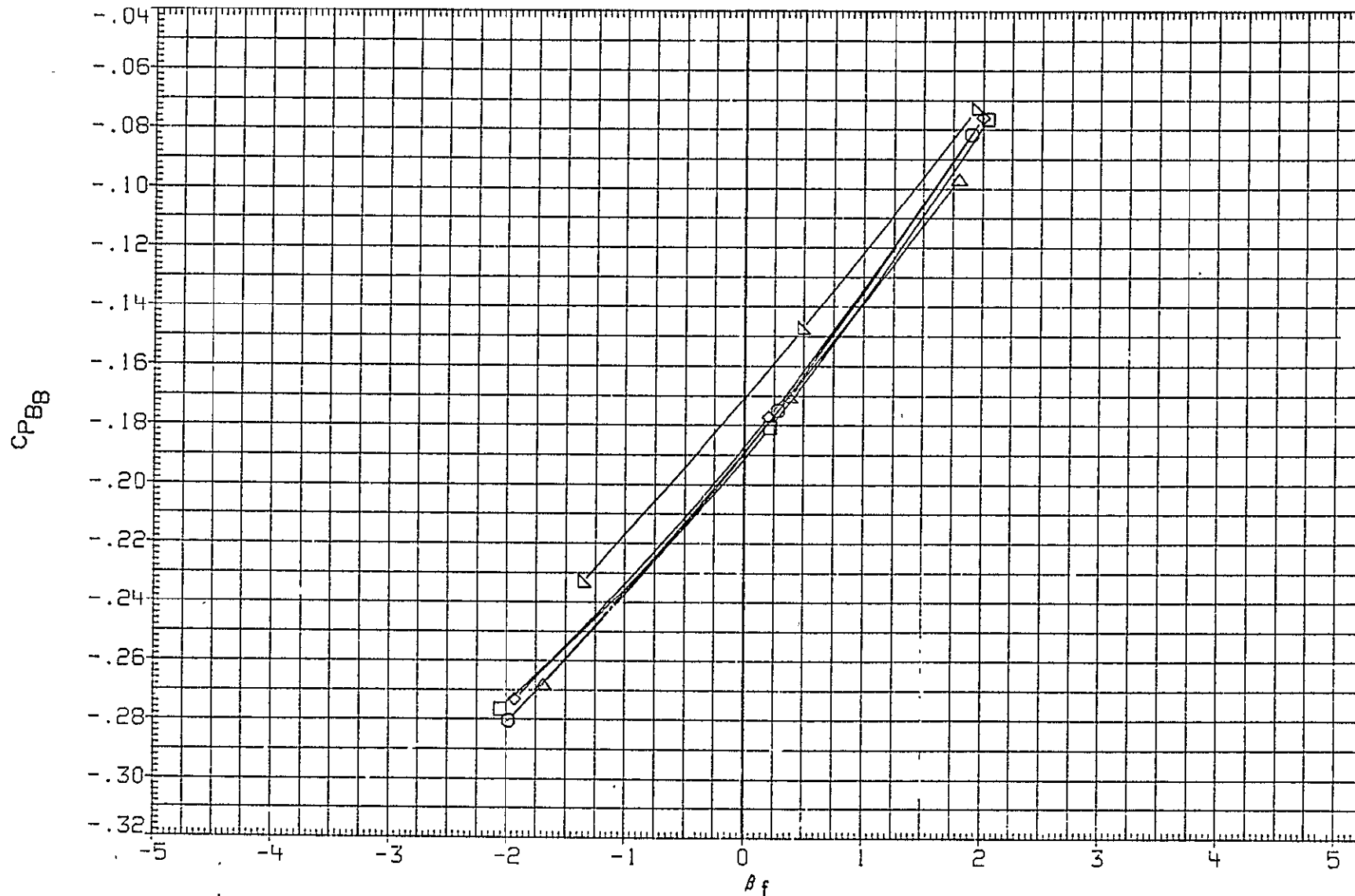


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	TPSGAP	
□	-2.000	.700	.000	.010	
◇	.000	.700	.000	.010	
△	2.000	.700	.000	.010	
○	4.000	.700	.000	.010	
○	6.000	.700	.000	.010	
○	8.000	.700	.000	.010	

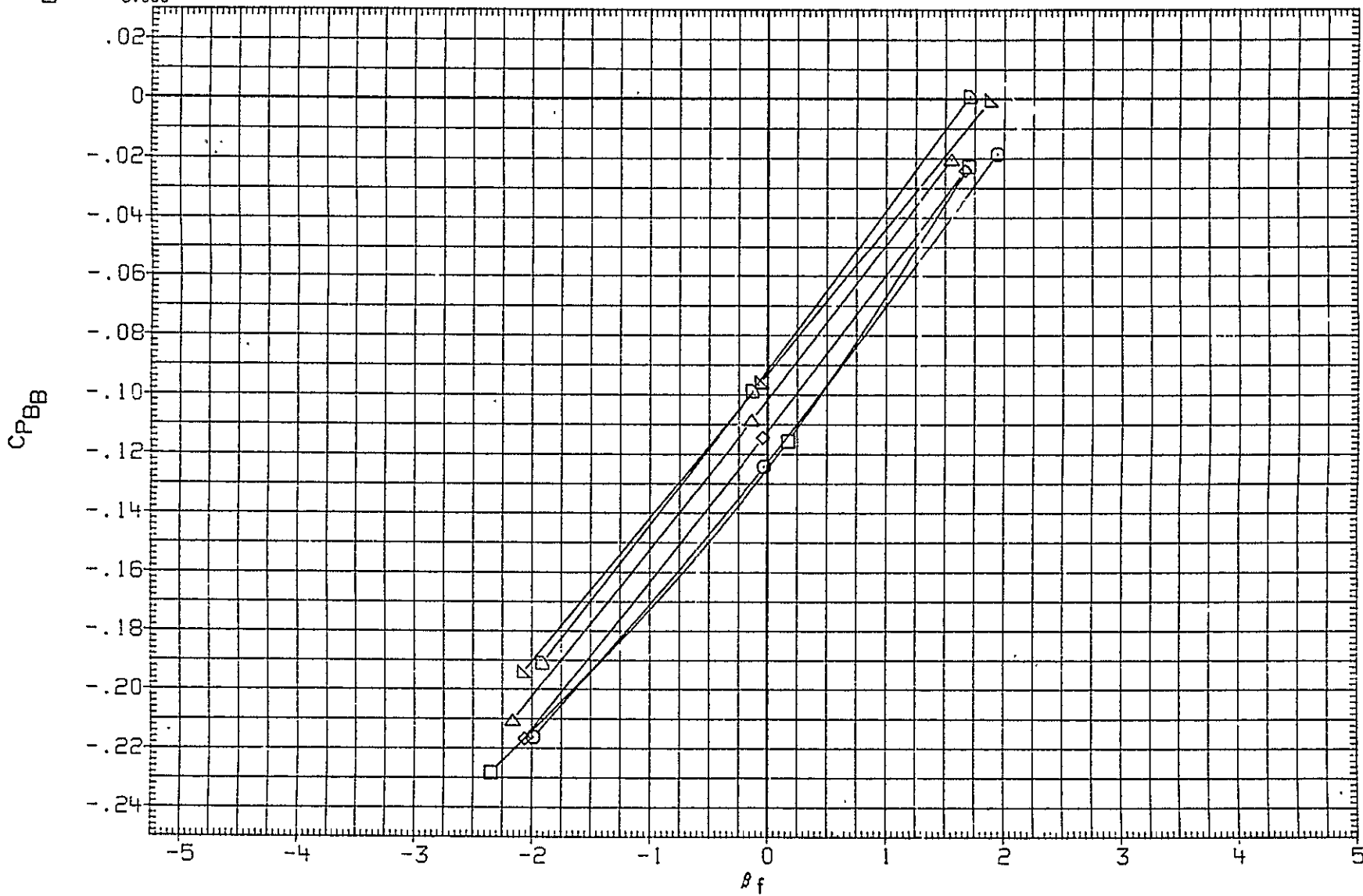


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

(SNL070) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	TPSGAP	.010
○	10.000		.700		
□	12.000	PHI-N	.000		
◇	16.000				
△	20.000				
▽	24.000				

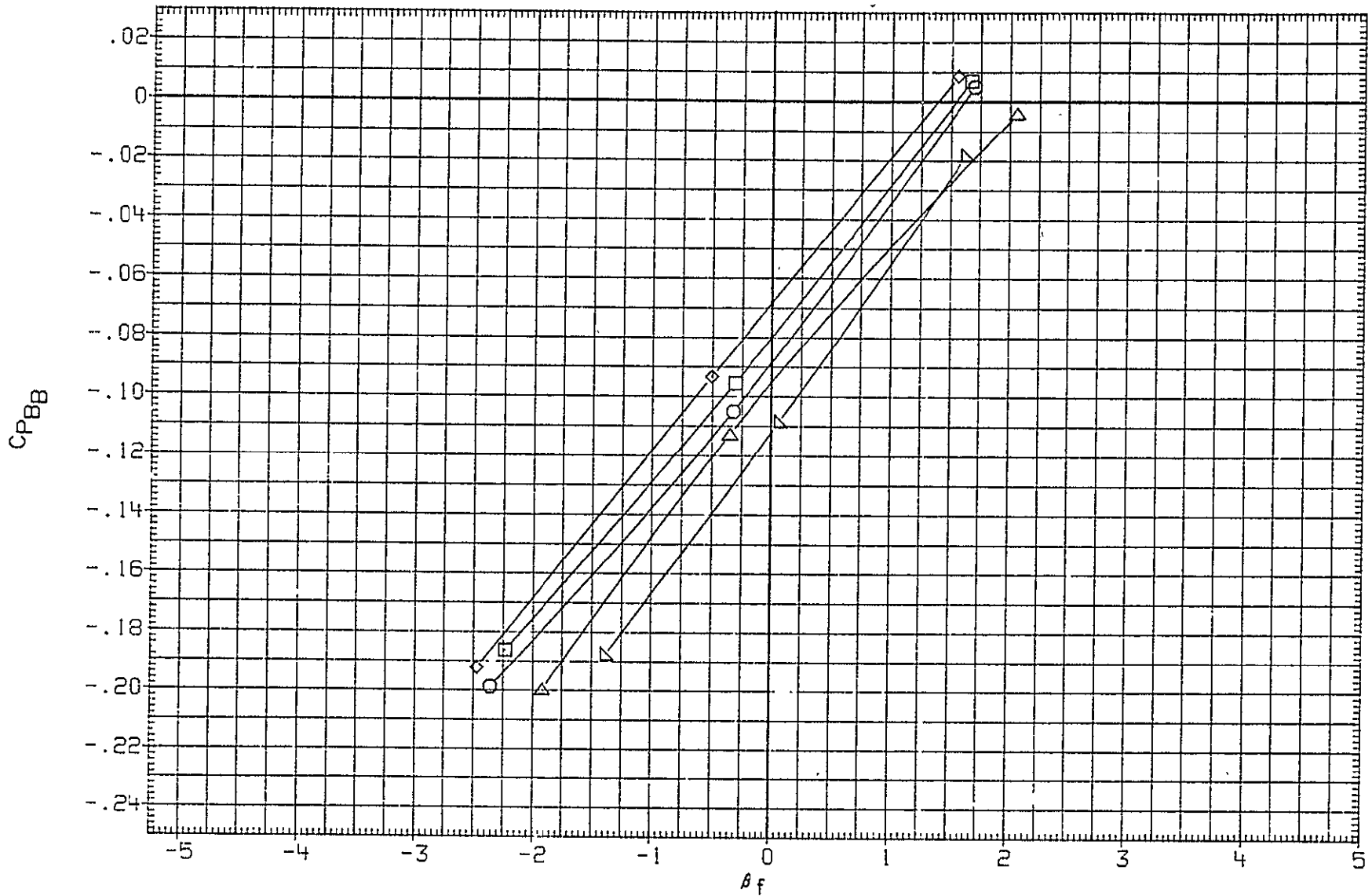


FIG. 6 COMPARISON OF FLIGHT TEST PROBE CHARACTERISTICS WITH MEASURED ANGLES OF PITCH AND YAW

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP	.010
○	-2.000	.000	.000			
□	5.000					
△	10.000					
◇	15.000					
▽	20.000					

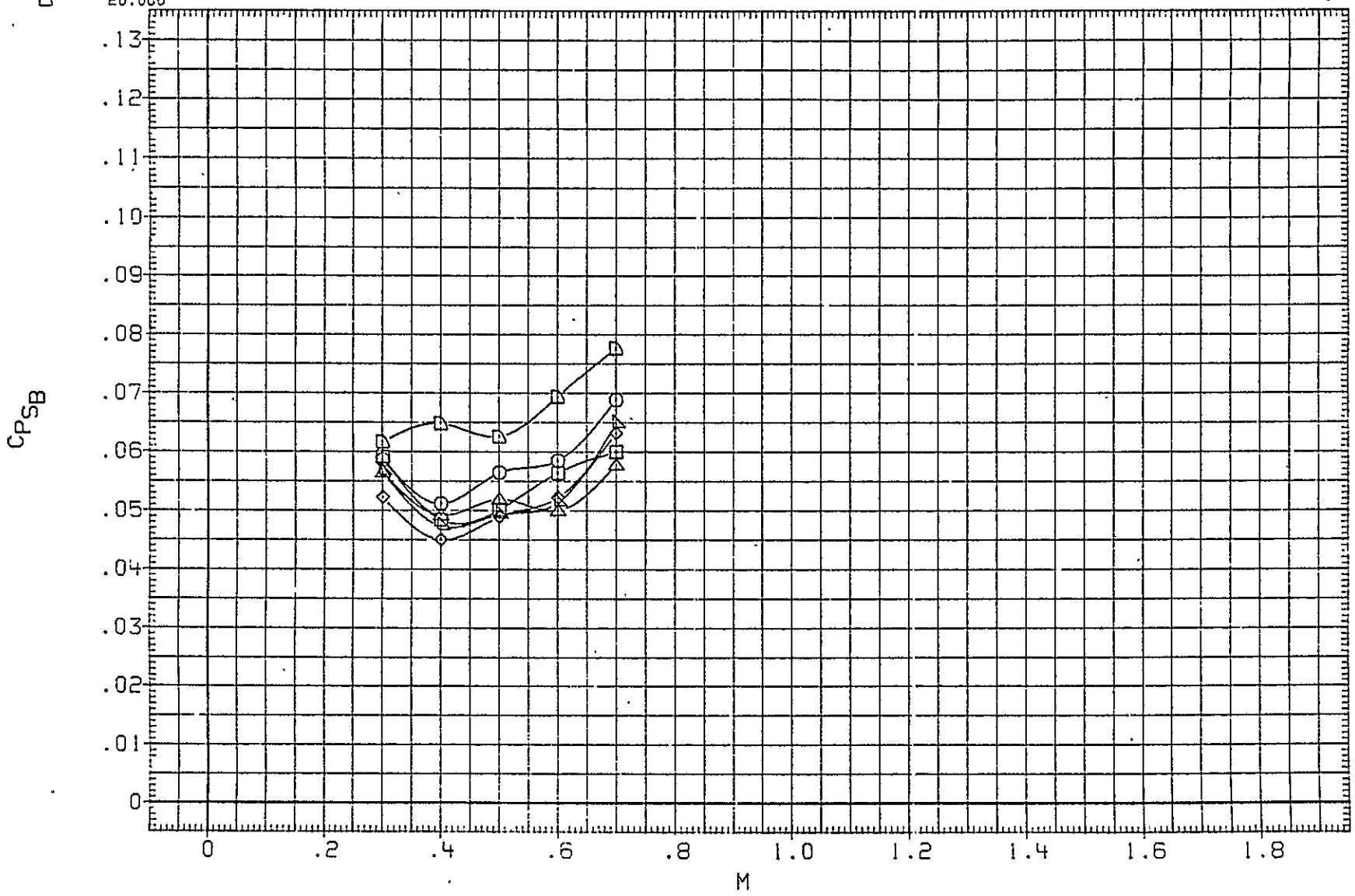


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL011) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
◇	-2.000	BETA	.000	TPSGAP	.010
▽	.000	PHI-N	.000		
□	5.000				
○	10.000				
△	15.000				
◇	20.000				

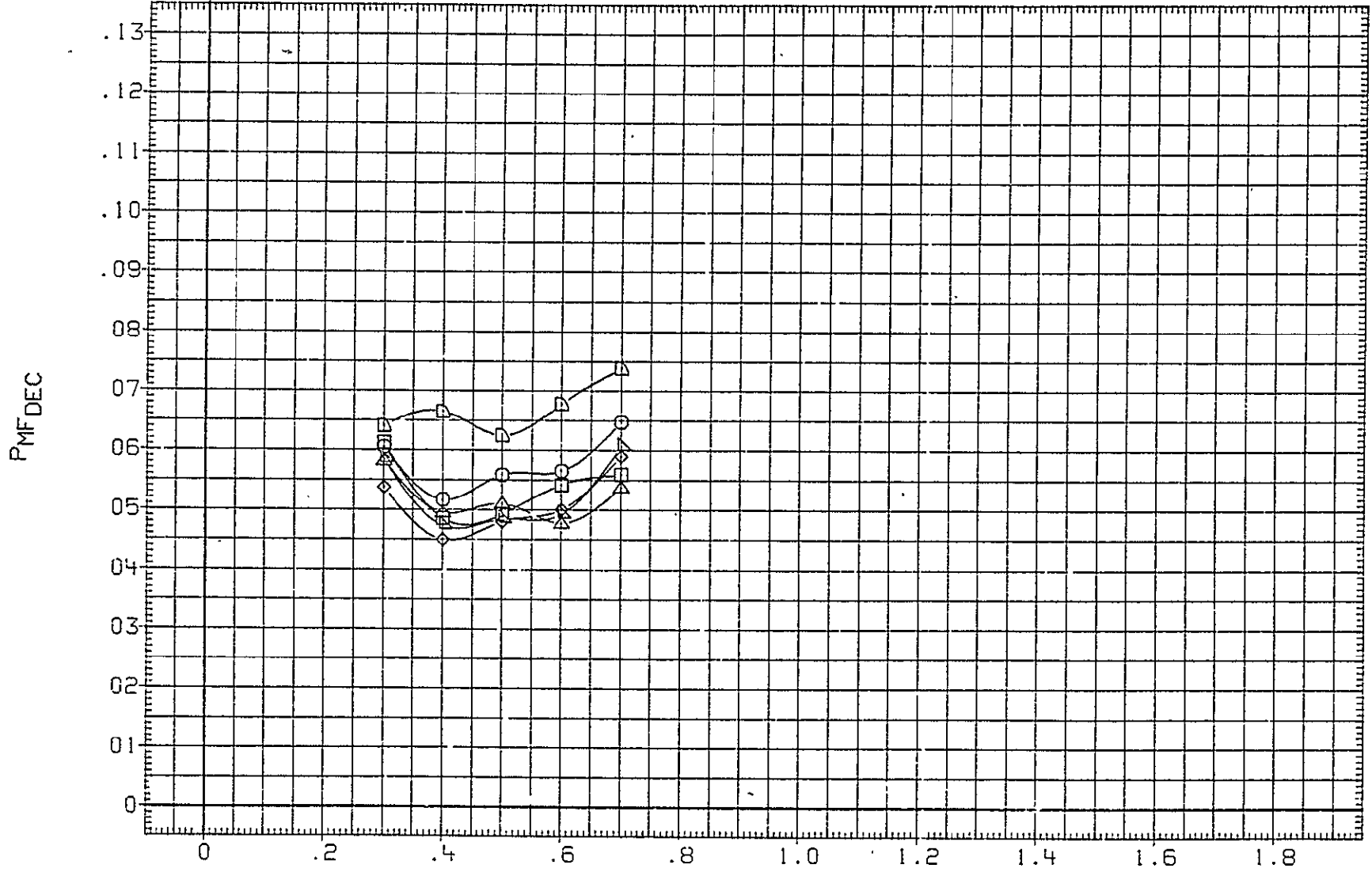


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP
◇	-2.000	.000	.000		.010
▷	.000	.000	.000		
◇	5.000				
◇	10.000				
◇	15.000				
◇	20.000				

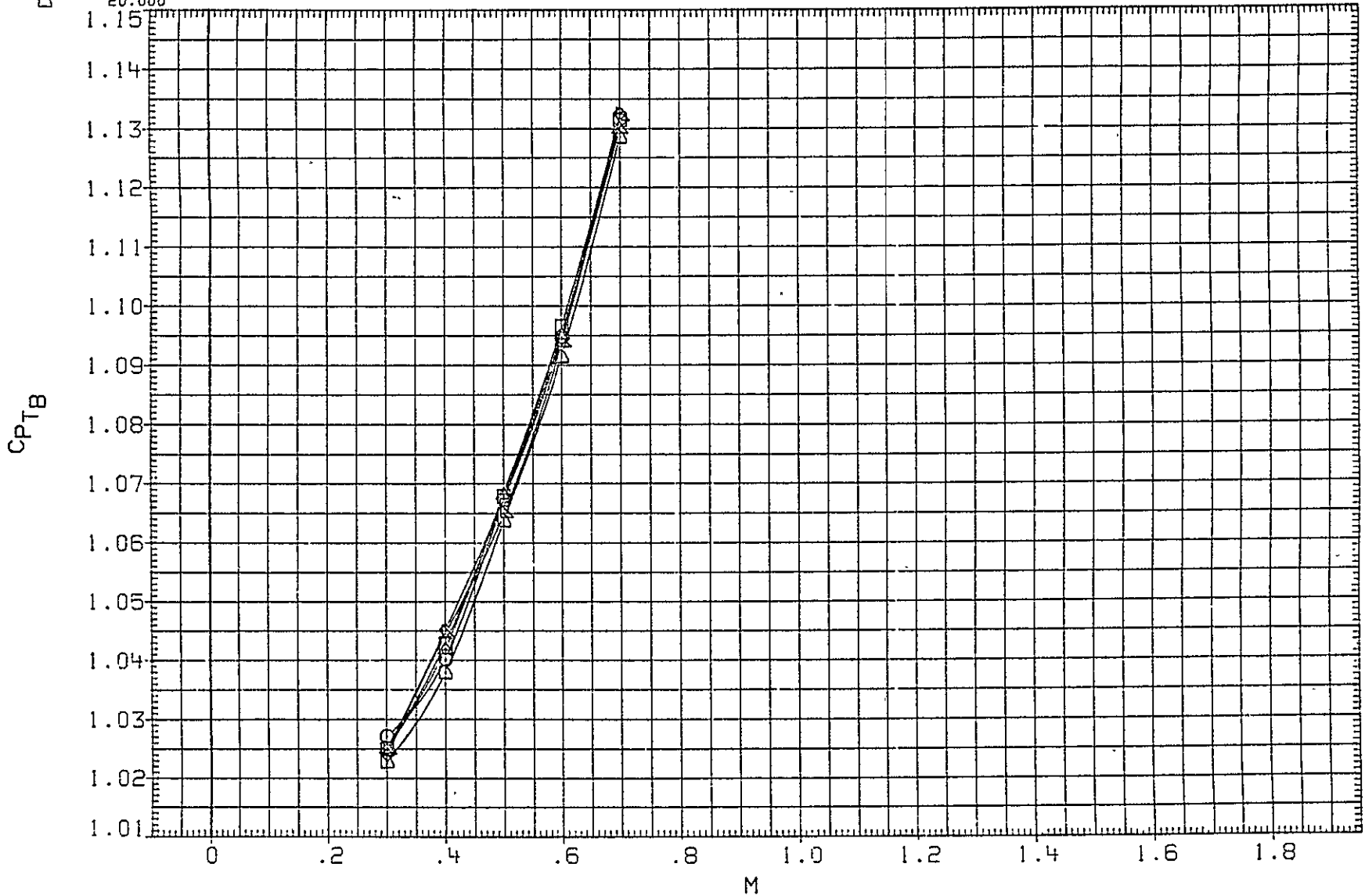


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL011) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
○	-2.000	BETA	.000	TPSGAP	.010
□	.000	PHI-N	.000		
◇	5.000				
△	10.000				
▽	15.000				
◇	20.000				

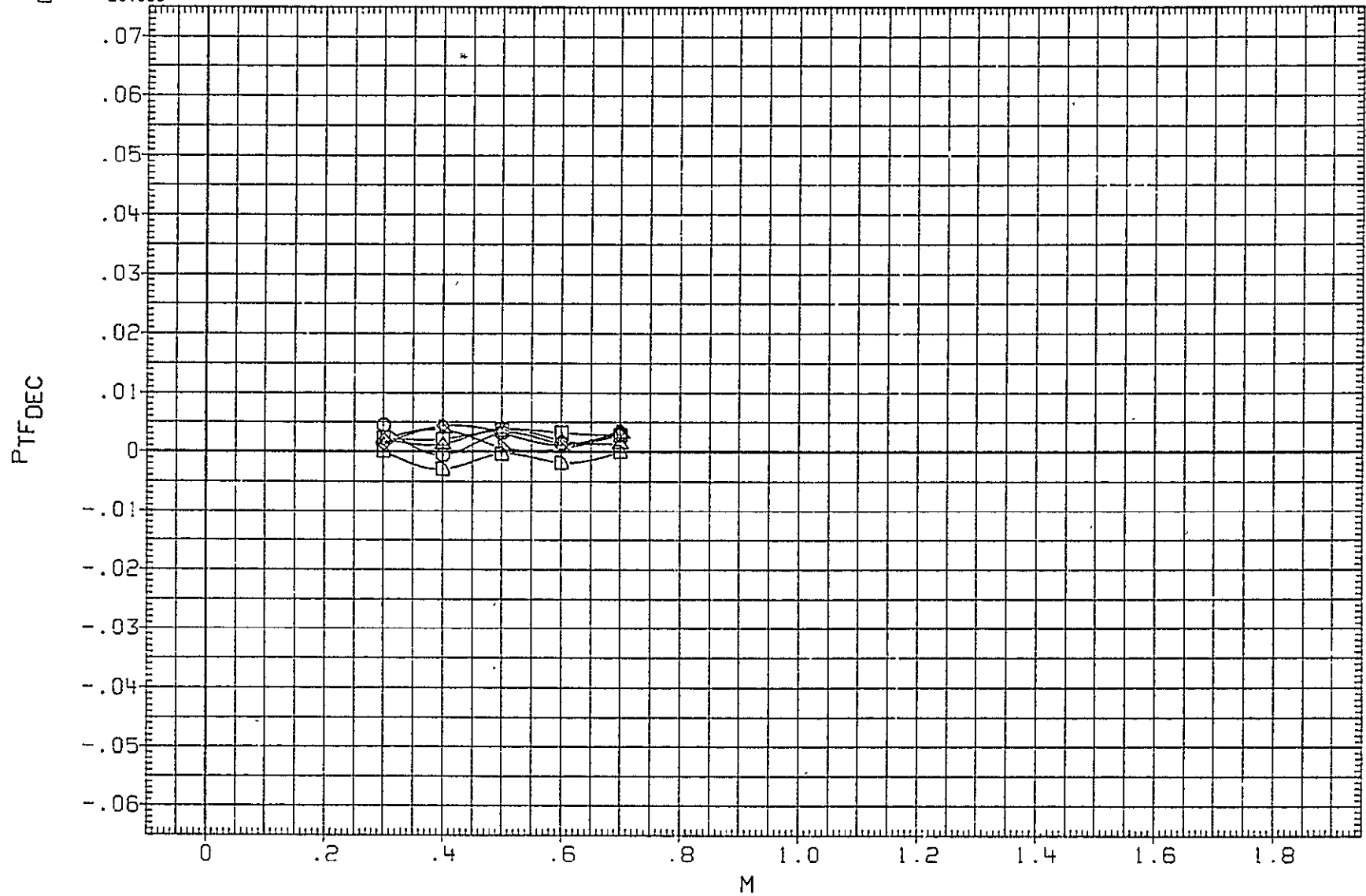


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP
○	-2.000				.010
□	.000				
◇	5.000				
△	10.000				
▽	15.000				
◇	20.000				

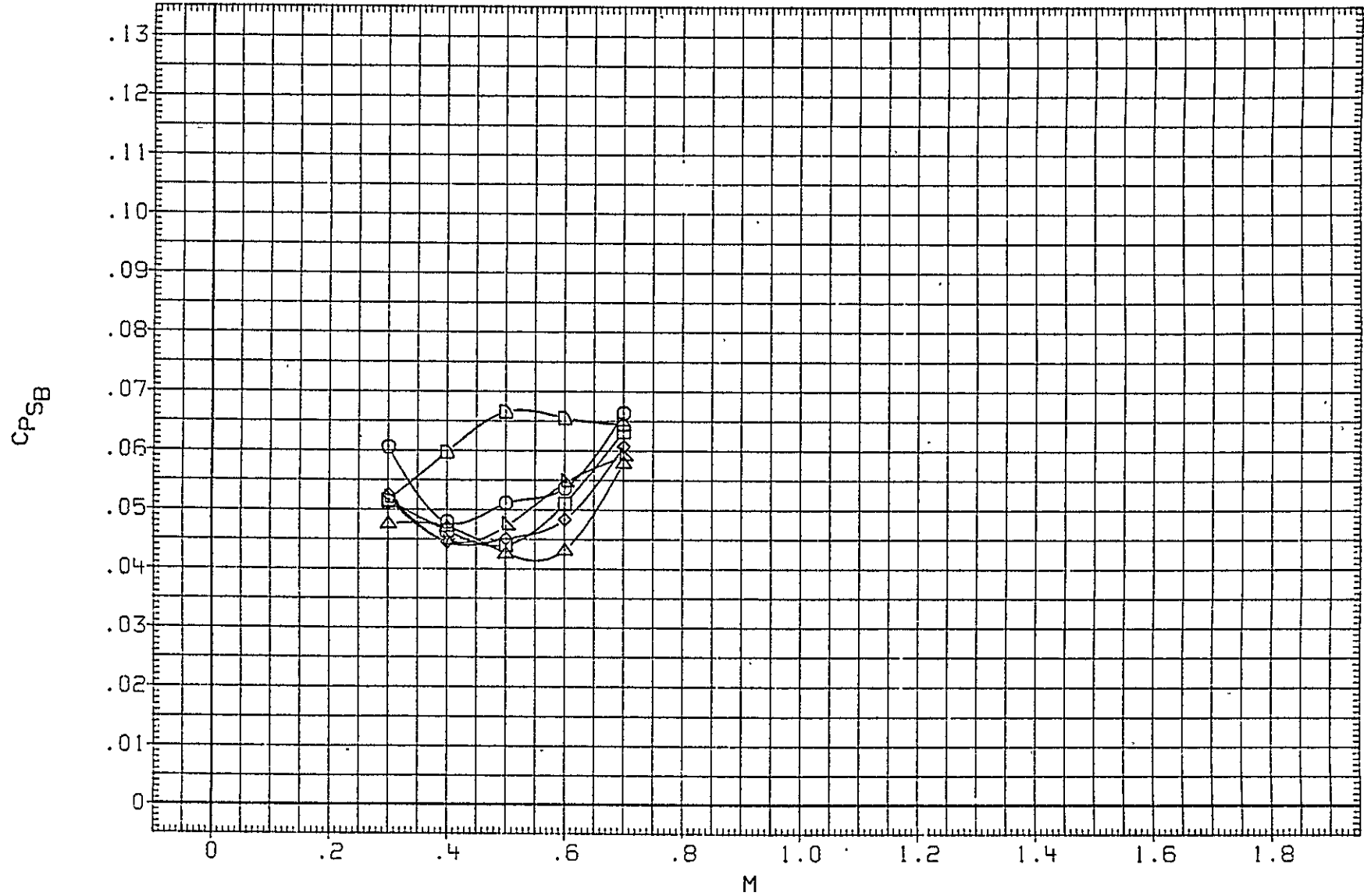


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
□	-2.000	BETA	-2.000	TPSGAP	.010
◇	.000	PHI-N	.000		
◇	5.000				
◇	10.000				
◇	15.000				
◇	20.000				

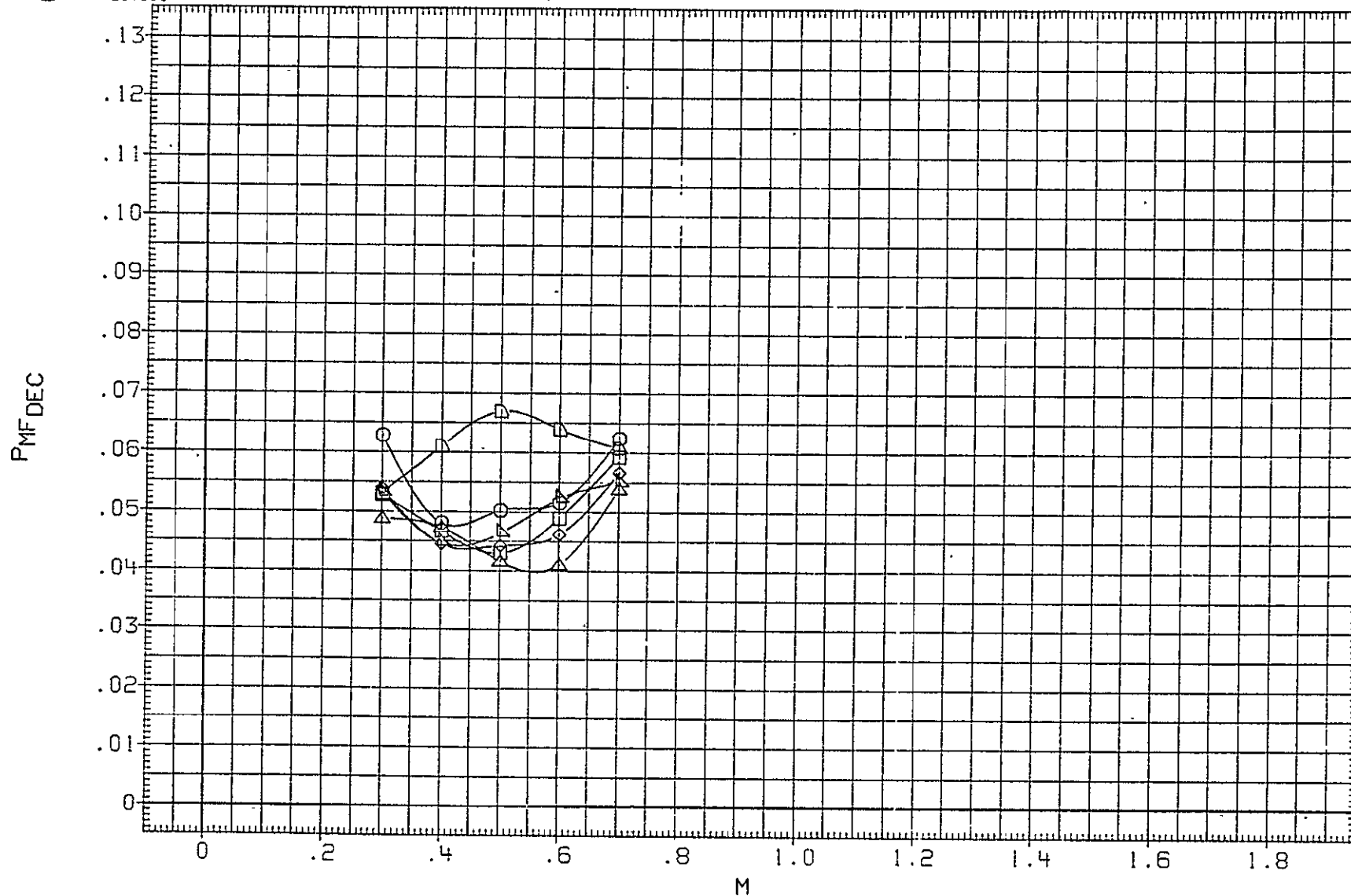


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP	.010
D17D00	-2.000					
	.000					
	5.000					
	10.000					
	15.000					
	20.000					

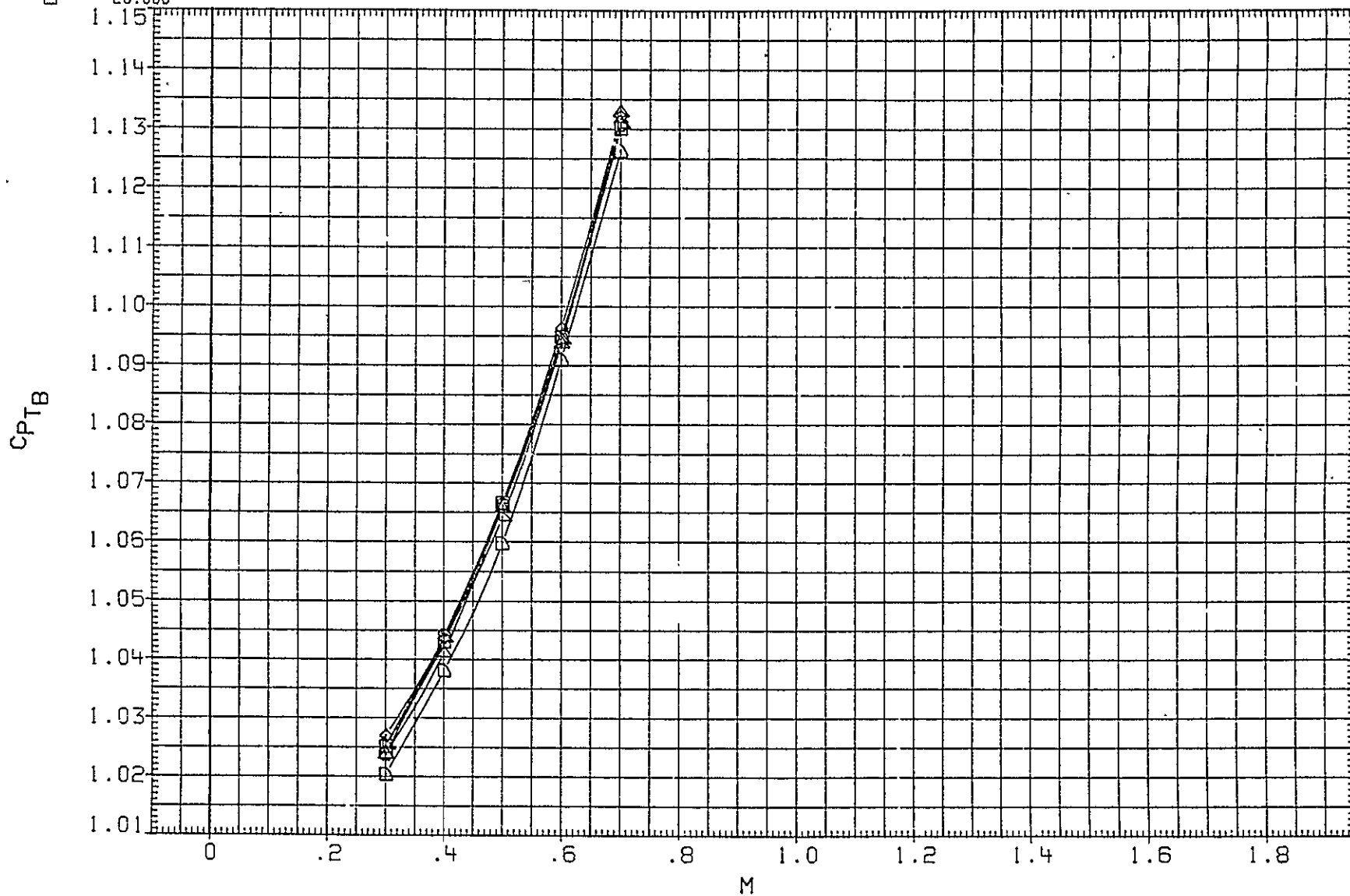


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL013) ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	
○	-2.000			-2.000	TPSGAP .010
□	.000			.000	
◇	5.000				
△	10.000				
▽	15.000				
◇	20.000				

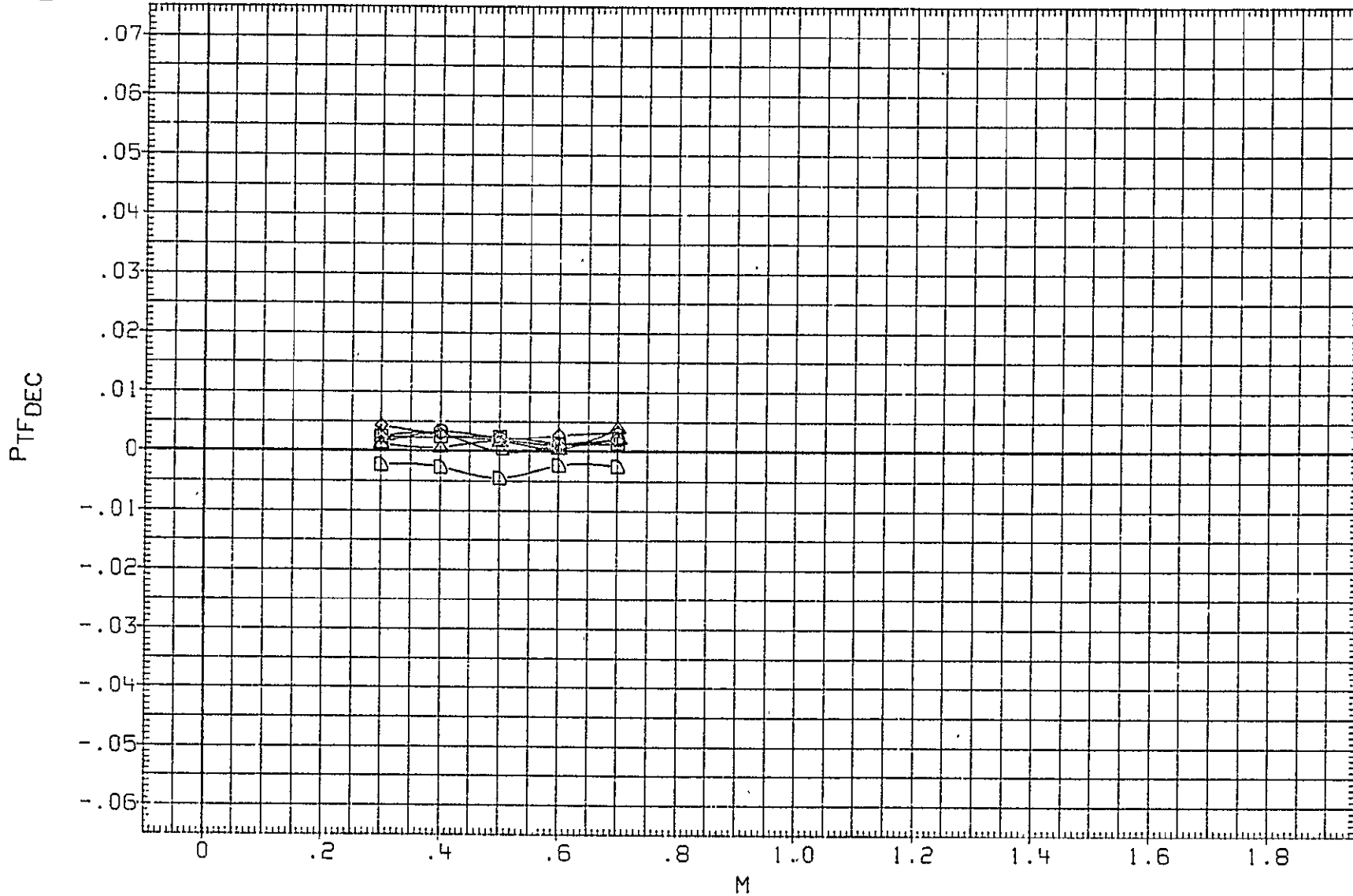


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP
○	-2.000			2.000	.010
□	.000			.000	
△	5.000				
▽	10.000				
◇	15.000				
◇	20.000				

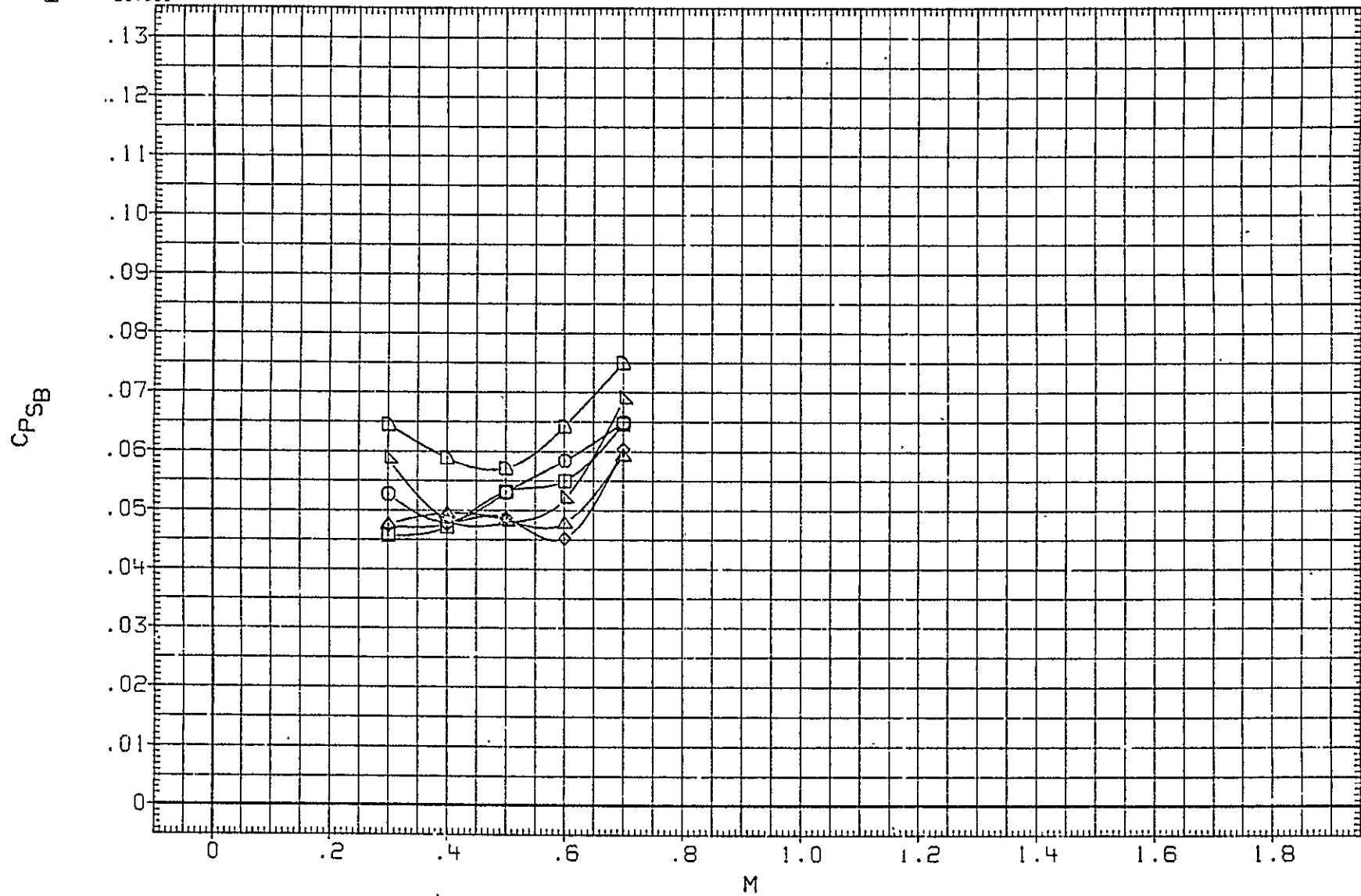


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL014) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
◇	-2.000	BETA	2.000	TPSGAP	.010'
▷	.000	PHI-N	.000		
◇	5.000				
◇	10.000				
◇	15.000				
◇	20.000				

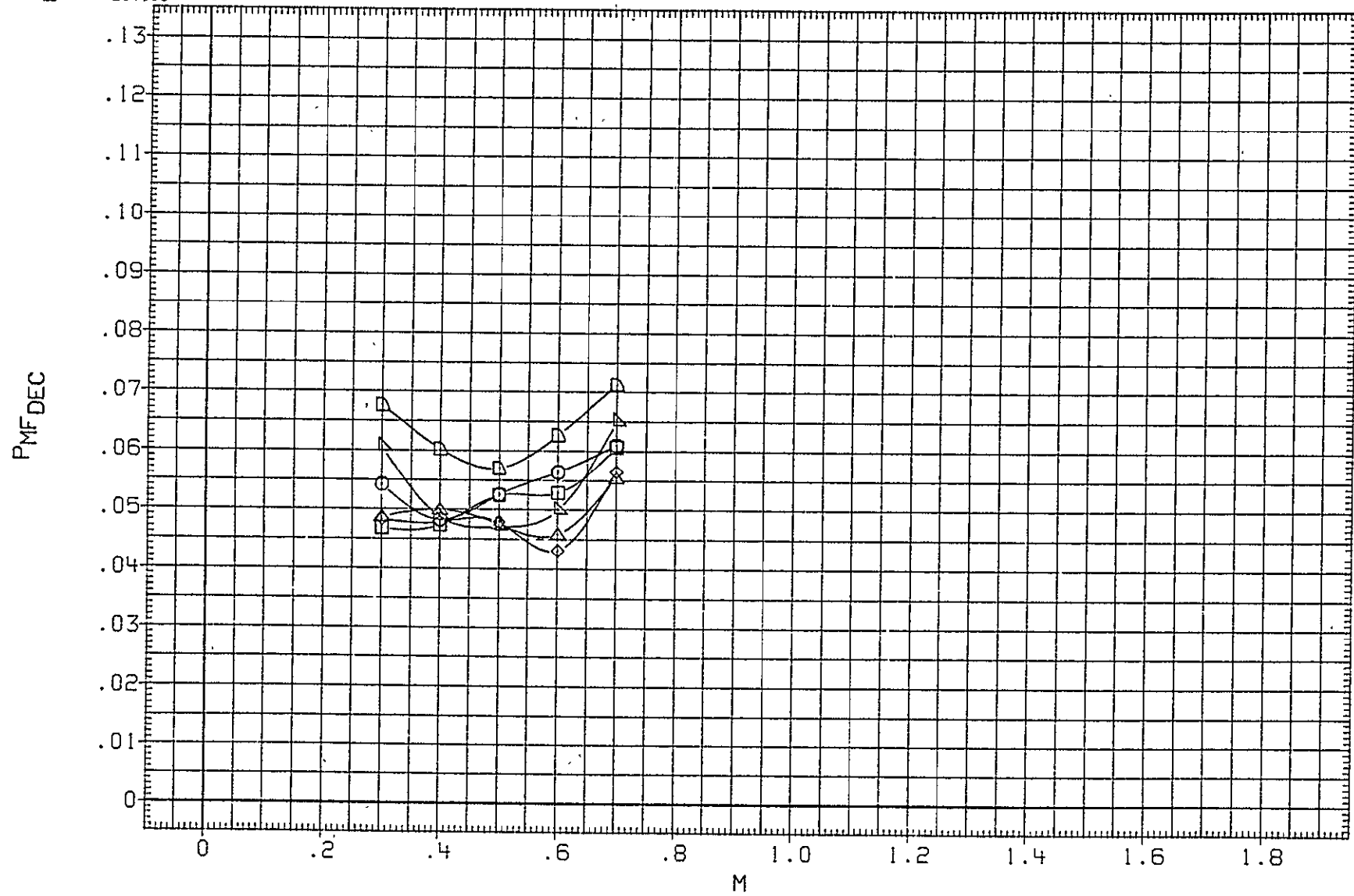


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP
○	-2.000	2.000	.000		.010
◇	.000	.000			
△	5.000				
▽	10.000				
□	15.000				
◇	20.000				

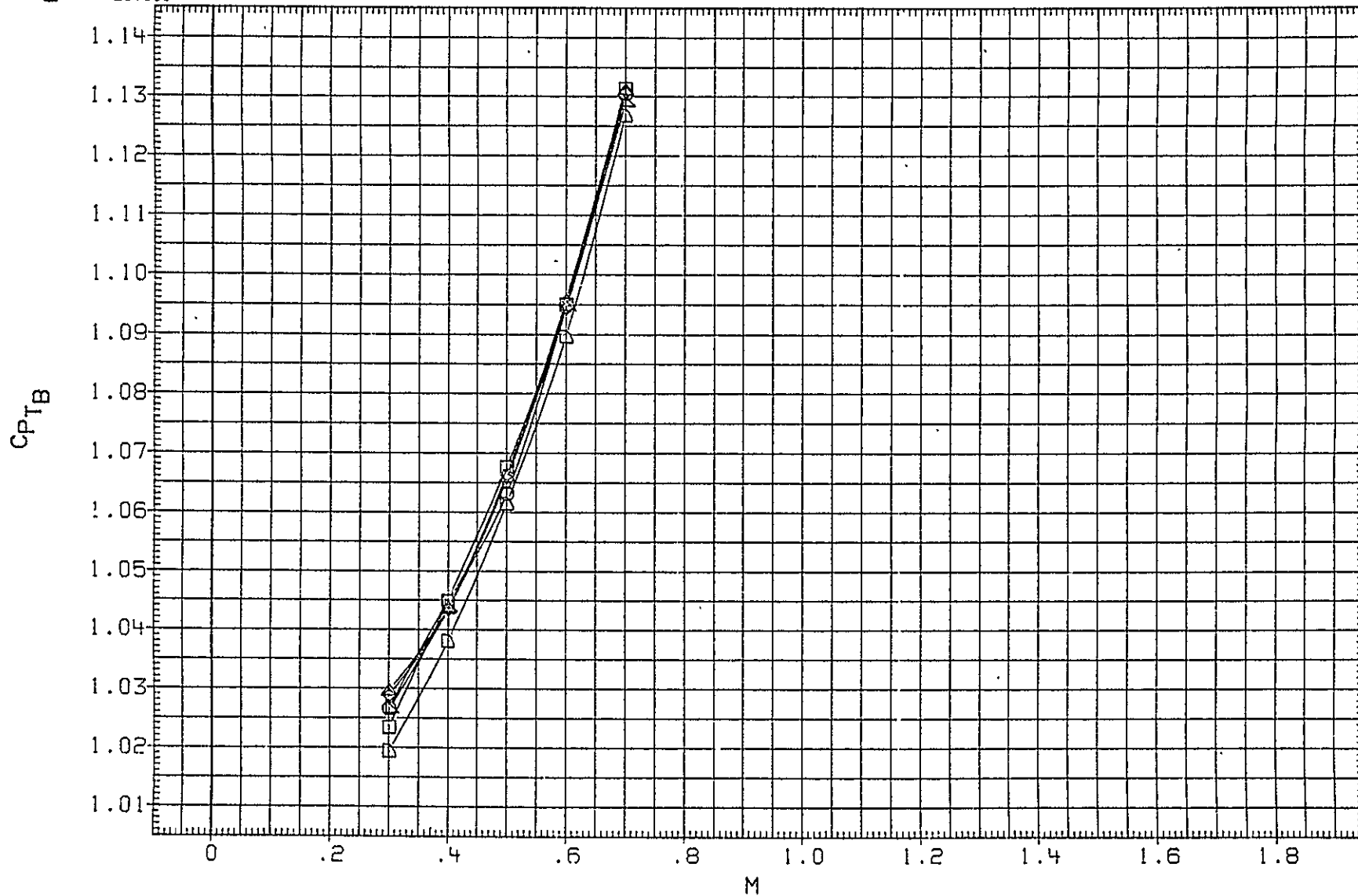


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

(LNL014) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	BETA	PARAMETRIC VALUES	TPSGAP	
○	-2.000		2.000	.010	
◇	.000	PHI-N	.000		
△	5.000				
▽	10.000				
□	15.000				
◇	20.000				

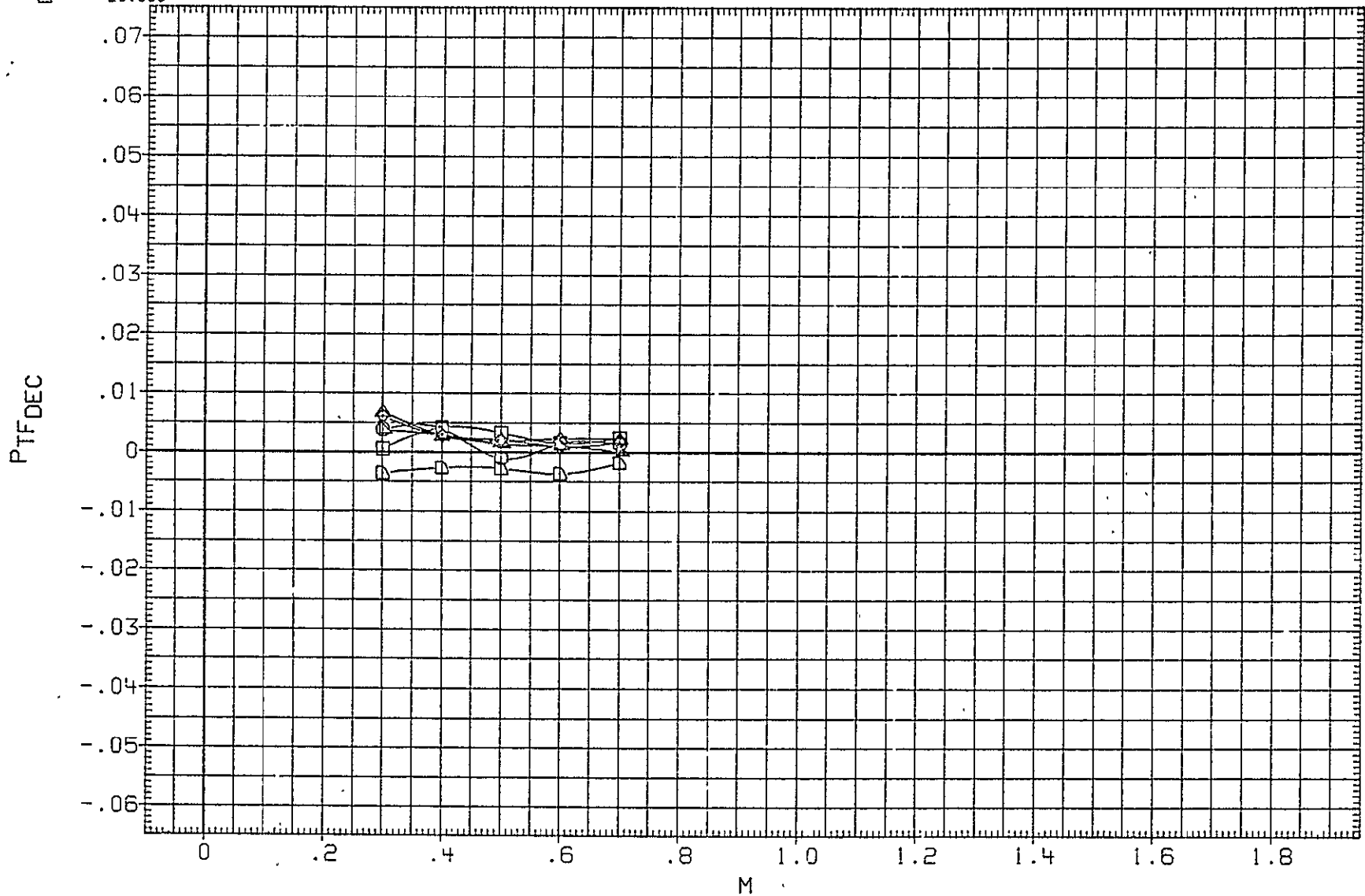


FIG. 7 MACH NUMBER EFFECT ON FLIGHT TEST PROBE CHARACTERISTICS

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	DATASET	BETA	DATASET	BETA
00000	-2.000					LNL013	-2.000	LNL011	.000
00001	.000				.010	LNL013	-2.000	LNL011	.000
00002	5.000					LNL014	2.000		
00003	10.000								
00004	15.000								
00005	20.000								

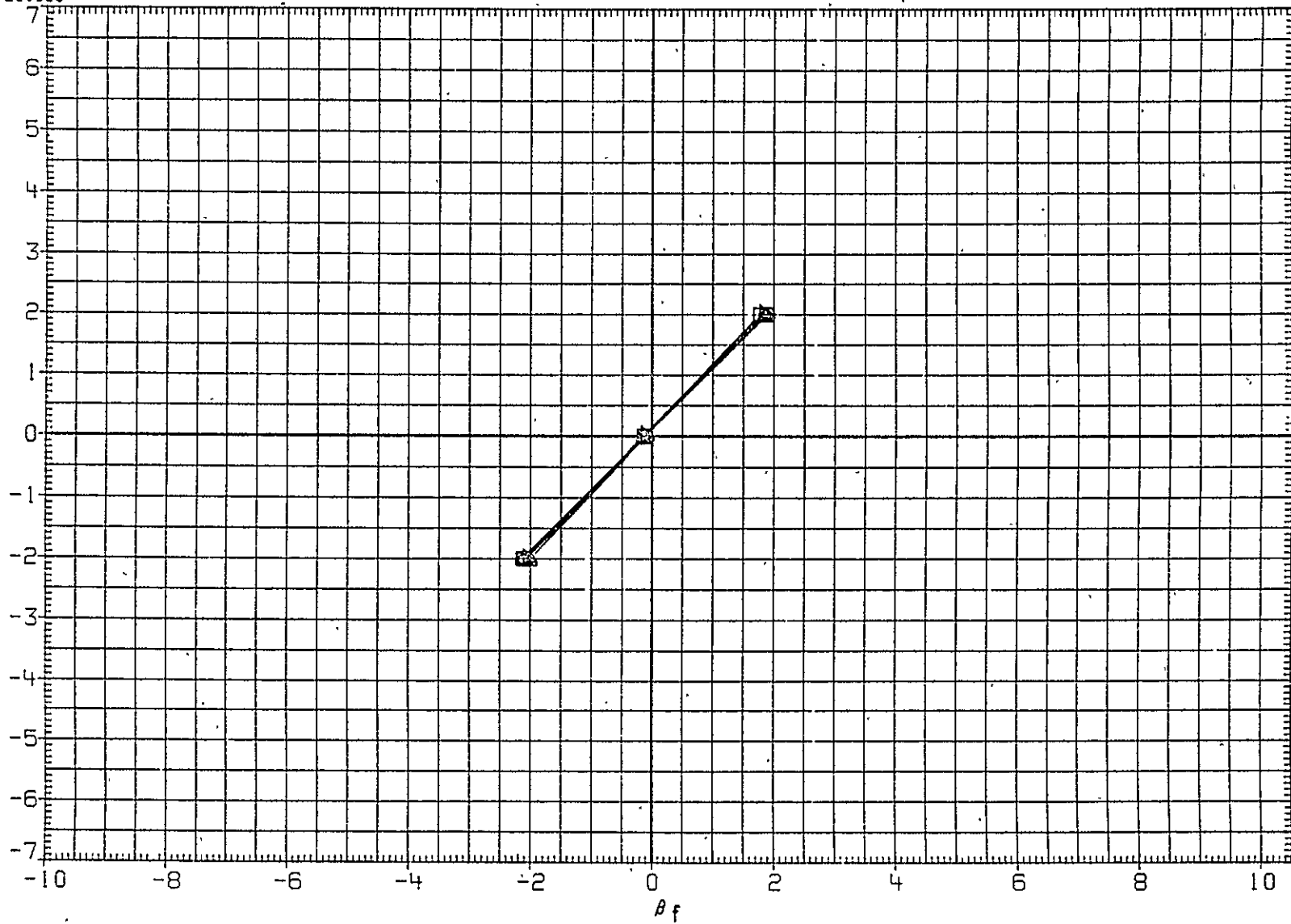


FIG. 8 ORBITER ANGLE OF SIDESLIP CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	.010	DATASET	BETA	DATASET	BETA
○	-2.000						LNL013	-2.000	LNL011	.000
◇	.000						LNL014	2.000		
△	5.000									
▽	10.000									
□	15.000									
◇	20.000									

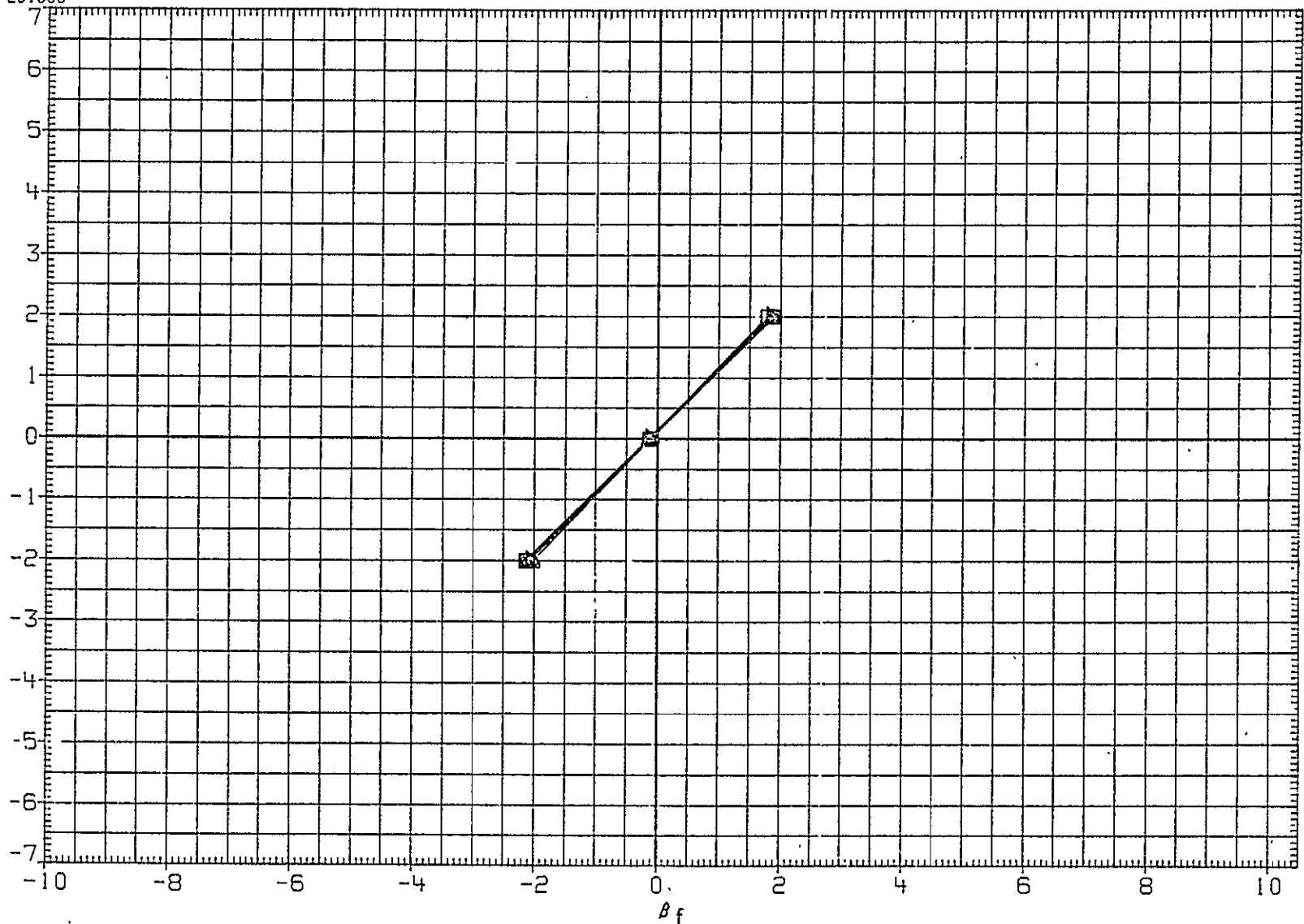


FIG. 8 ORBITER ANGLE OF SIDESLIP CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	.010	DATASET	BETA	DATASET	BETA
D1A000	-2.000						LNL013	-2.000	LNL011	.000
	.000						LNL014	2.000		
	5.000									
	10.000									
	15.000									
20.000										

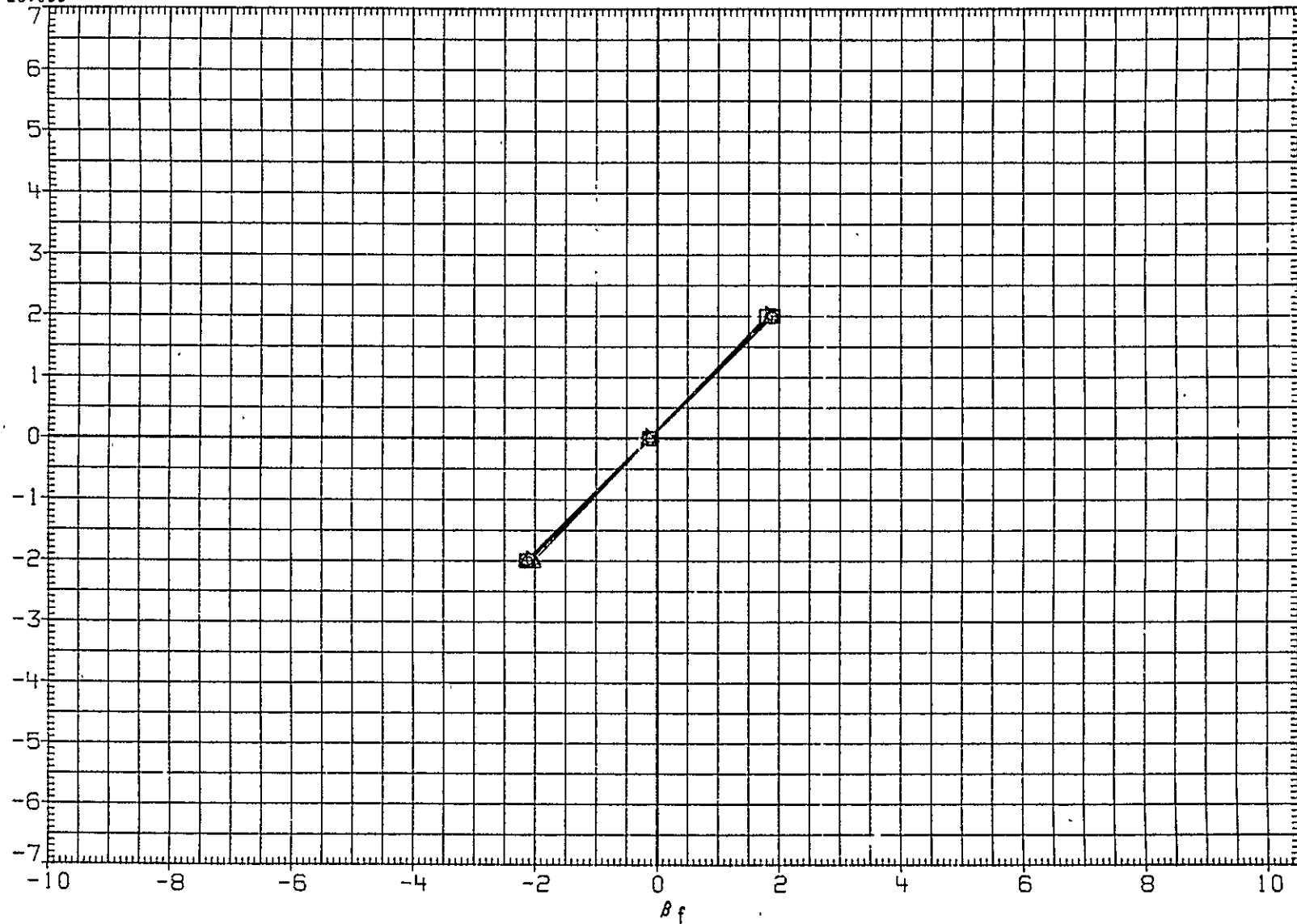


FIG. 8 ORBITER ANGLE OF SIDESLIP CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	.010	DATASET	BETA	DATASET	BETA
□	-2.000			.600			LNL013	-2.000	LNL011	.000
◇	.000			.000			LNL014	2.000		
△	5.000									
▽	10.000									
◇	15.000									
◇	20.000									

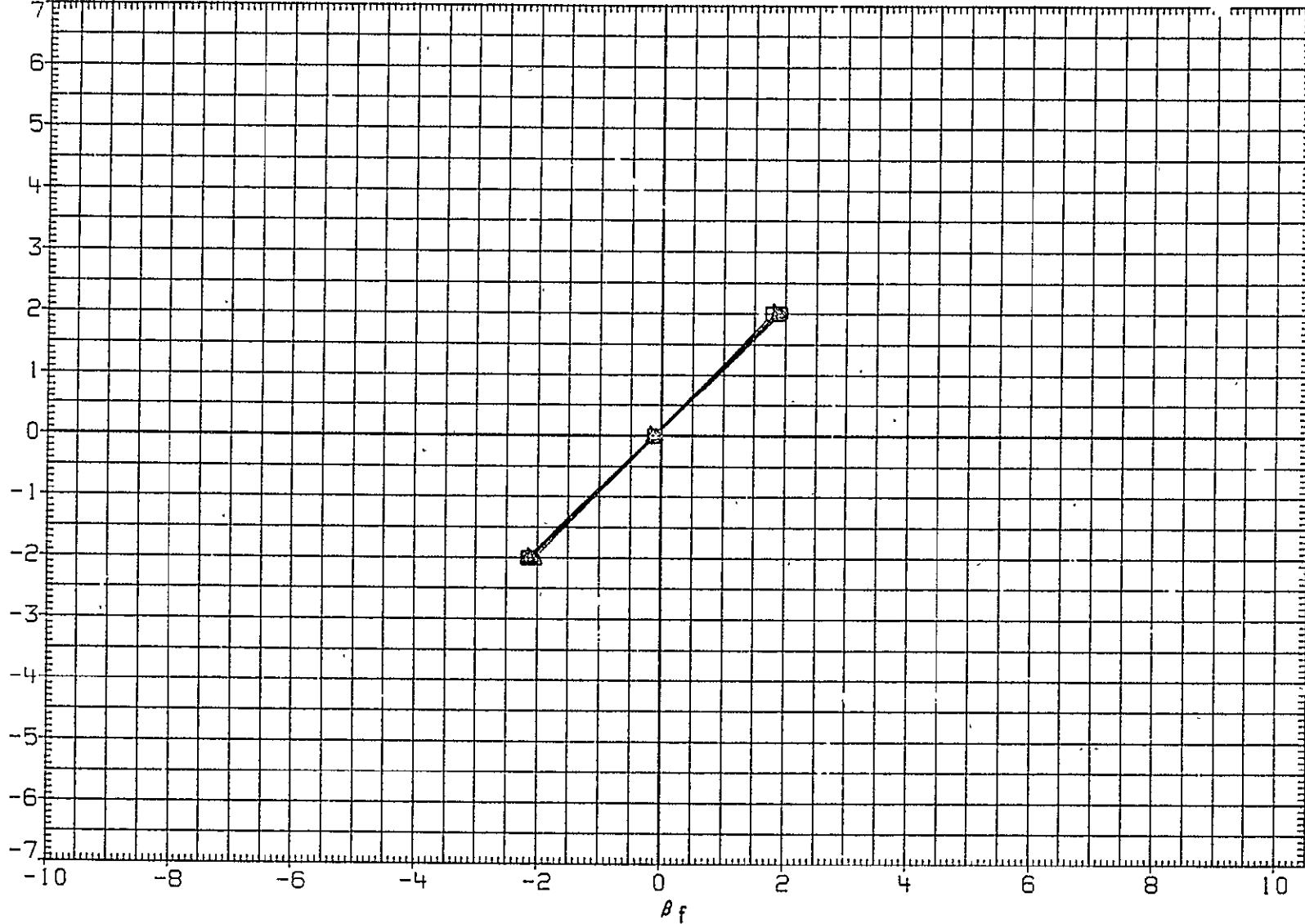


FIG. 8 ORBITER ANGLE OF SIDESLIP CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

SYMBOL	ALPHA	PARAMETRIC VALUES			DATASET	BETA	DATASET	BETA	
	○	-2.000	MACH	.700	TPSGAP	.010	LNL013	-2.000	LNL011
◇	.000	PHI-N	.000			LNL014	2.000		
□	5.000								
△	10.000								
▽	15.000								
▷	20.000								

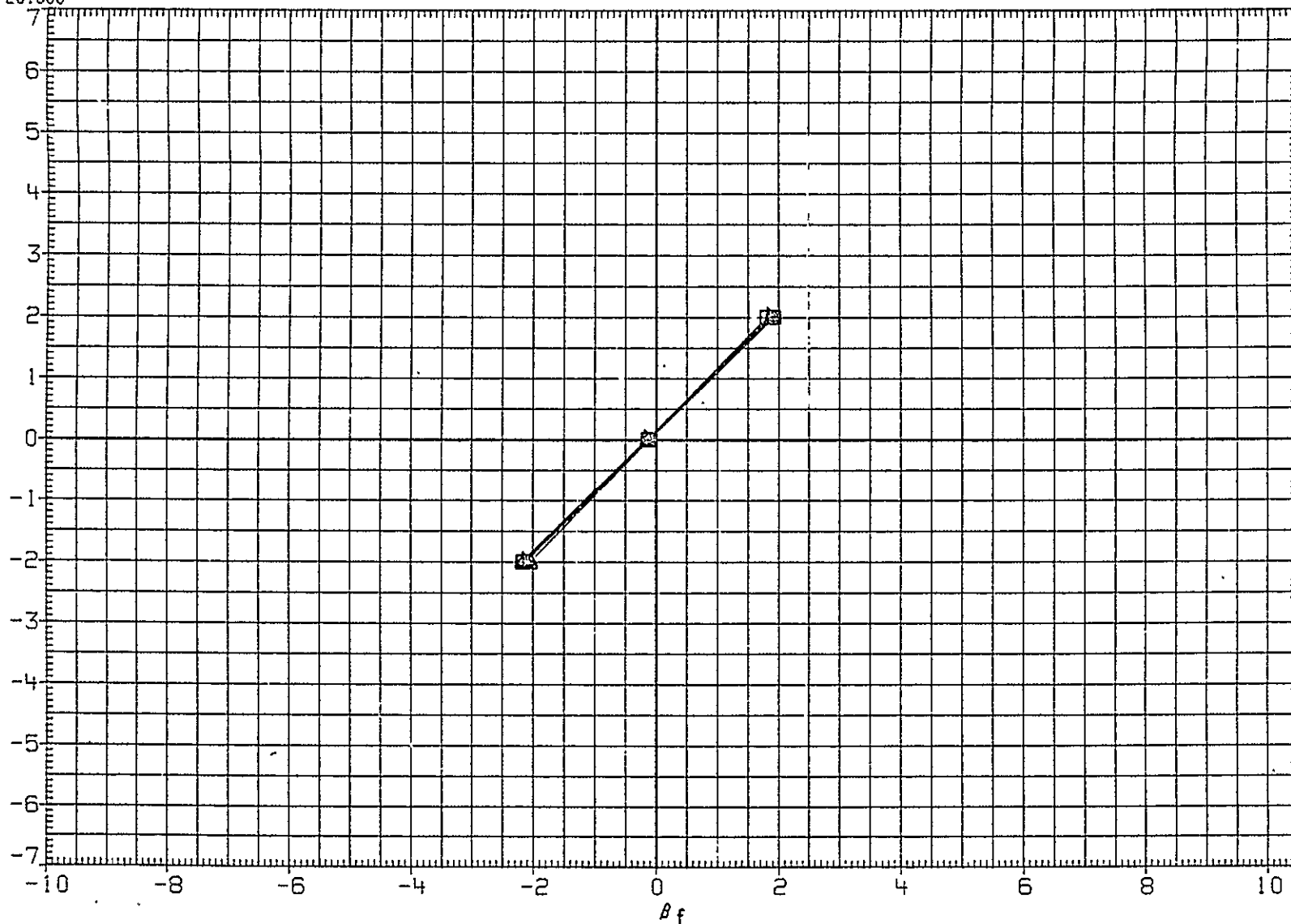


FIG. 8 ORBITER ANGLE OF SIDESLIP CORRELATION WITH FLIGHT TEST PROBE MEASURED VALUES

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATASET	BETA	DATASET	BETA	
○	-2.000		.300	TPSGAP	.010	LNL013	-2.000	LNL011	.000
□	.000	PHI-N	.000			LNL014	2.000		
◇	5.000								
△	10.000								
▽	15.000								
▷	20.000								

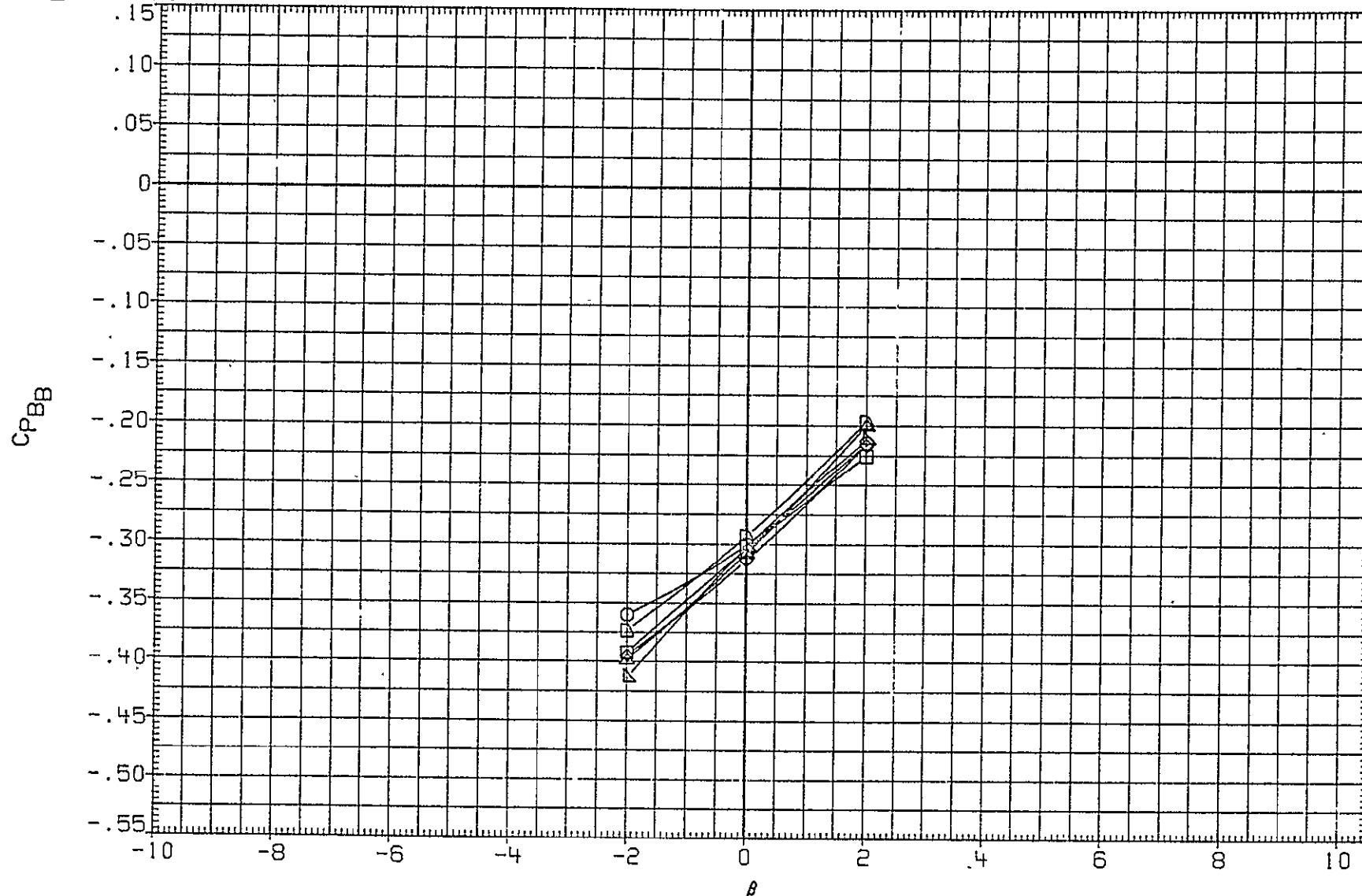


FIG. 9 FLIGHT TEST PROBE ANGLE OF SIDESLIP PRESSURE COEFFICIENT VARIATION WITH BETA

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			DATASET	BETA	DATASET	BETA	
	D	-2.000	MACH	.400	TPSGAP	.010	LNL013	-2.000	LNL011
A	.000	PHI-N	.000			LNL014	2.000		
X	5.000								
O	10.000								
	15.000								
	20.000								

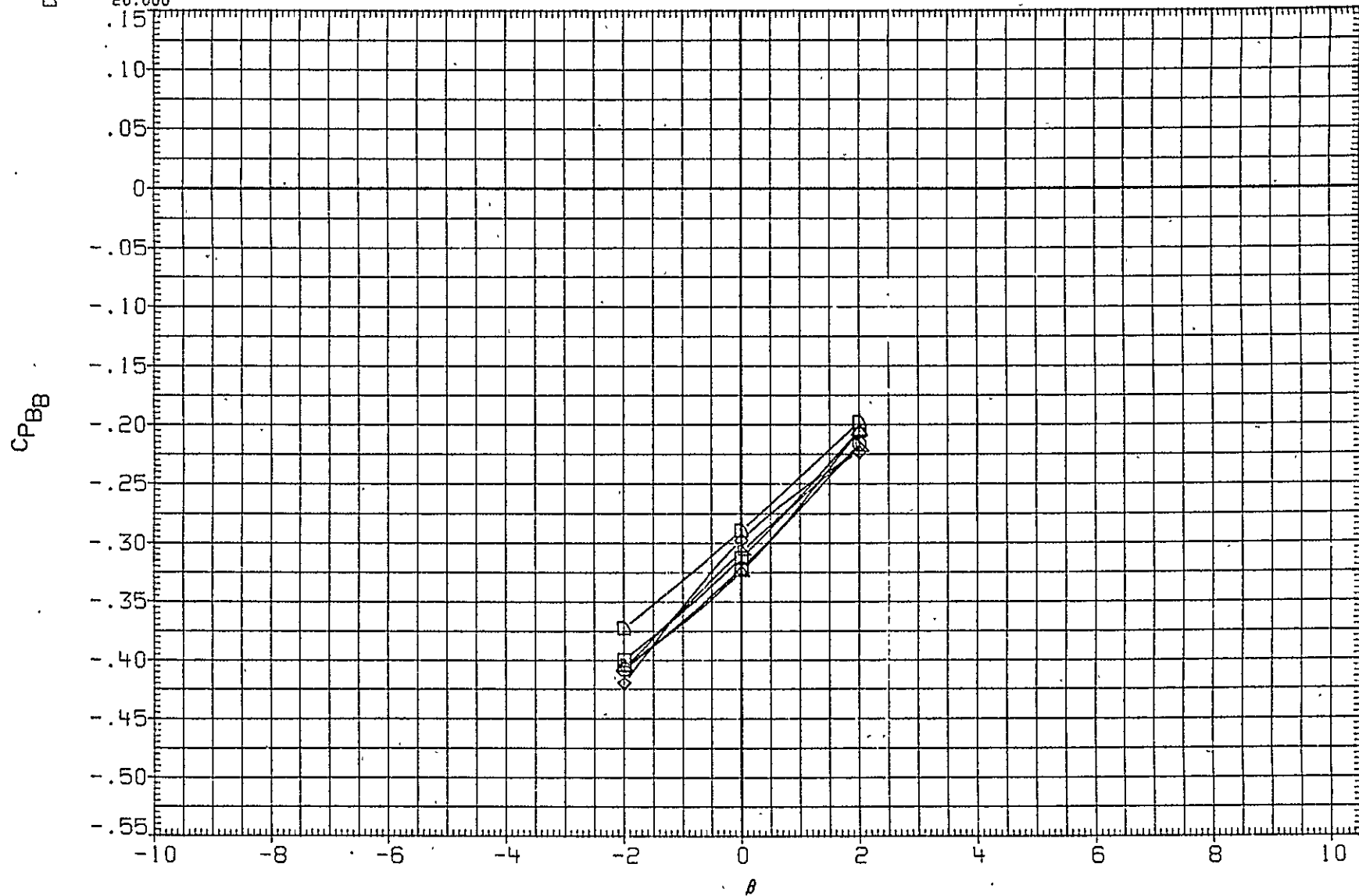


FIG. 9 FLIGHT TEST PROBE ANGLE OF SIDESLIP PRESSURE COEFFICIENT VARIATION WITH BETA

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	TPSGAP	DATASET	BETA	DATASET	BETA
D7D000	-2.000		.500	.010	LNL013	-2.000	LNL011	.000
	.000	PHI-N	.000		LNL014	2.000		
	5.000							
	10.000							
	15.000							
	20.000							

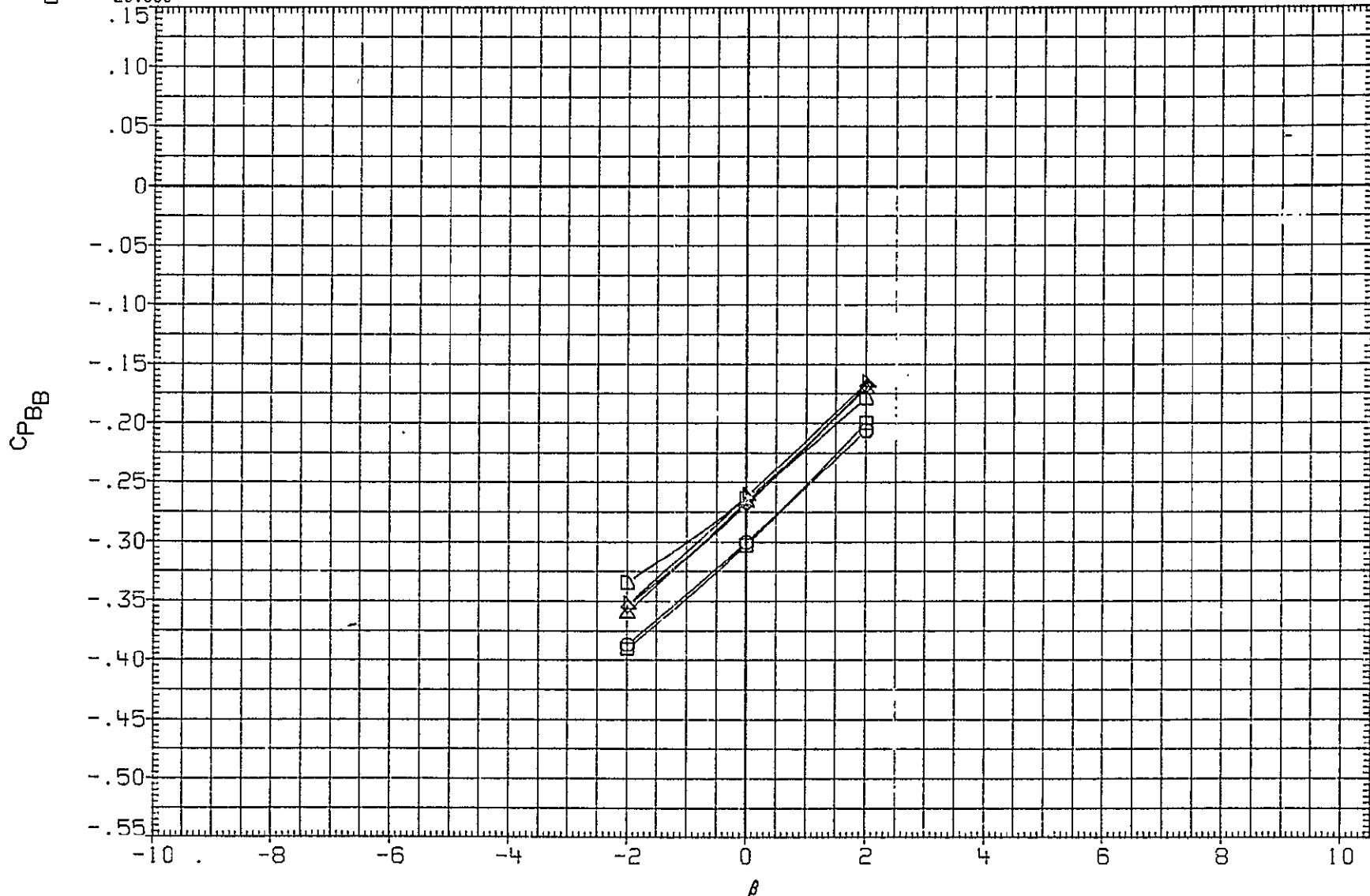


FIG. 9 FLIGHT TEST PROBE ANGLE OF SIDESLIP PRESSURE COEFFICIENT VARIATION WITH BETA

SYMBOL	ALPHA	MACH	PHI-N	PARAMETRIC VALUES	TPSGAP	DATASET	BETA	DATASET	BETA
D77000	-2.000			.600	.010	LNL013	-2.000	LNL0.1	.000
	.000			.000		LNL014	-2.000		
	5.000						2.000		
	10.000								
	15.000								
	20.000								

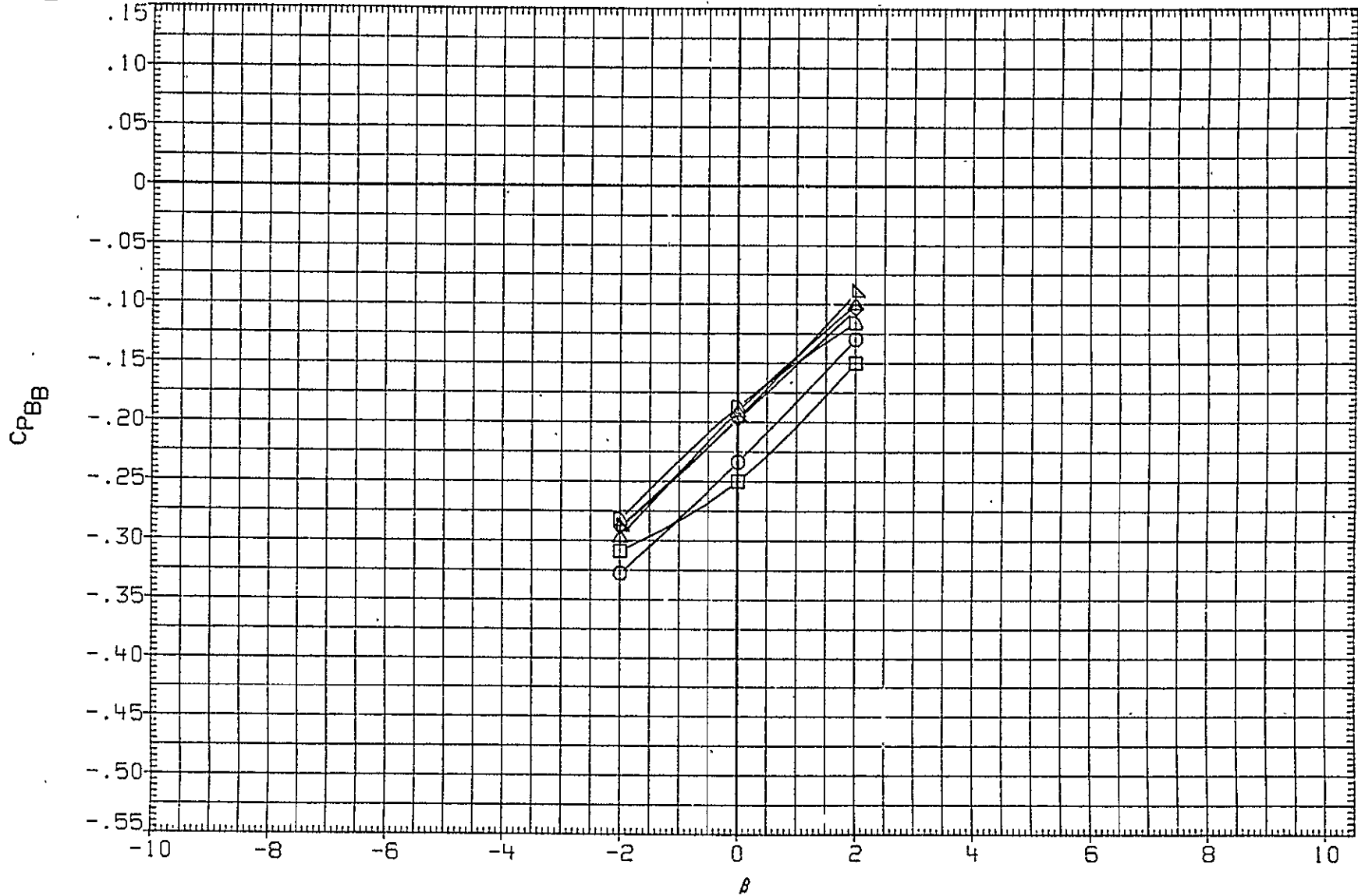


FIG. 9 FLIGHT TEST PROBE ANGLE OF SIDESLIP PRESSURE COEFFICIENT VARIATION WITH BETA

(LNL013) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			DATASET	BETA	DATASET	BETA	
□	-2.000	MACH	.700	TPSGAP	.010	LNL013	-2.000	LNL011	.000
◇	.000	PHI-N	.000			LNL014	2.000		
▽	5.000								
▽	10.000								
▽	15.000								
▽	20.000								

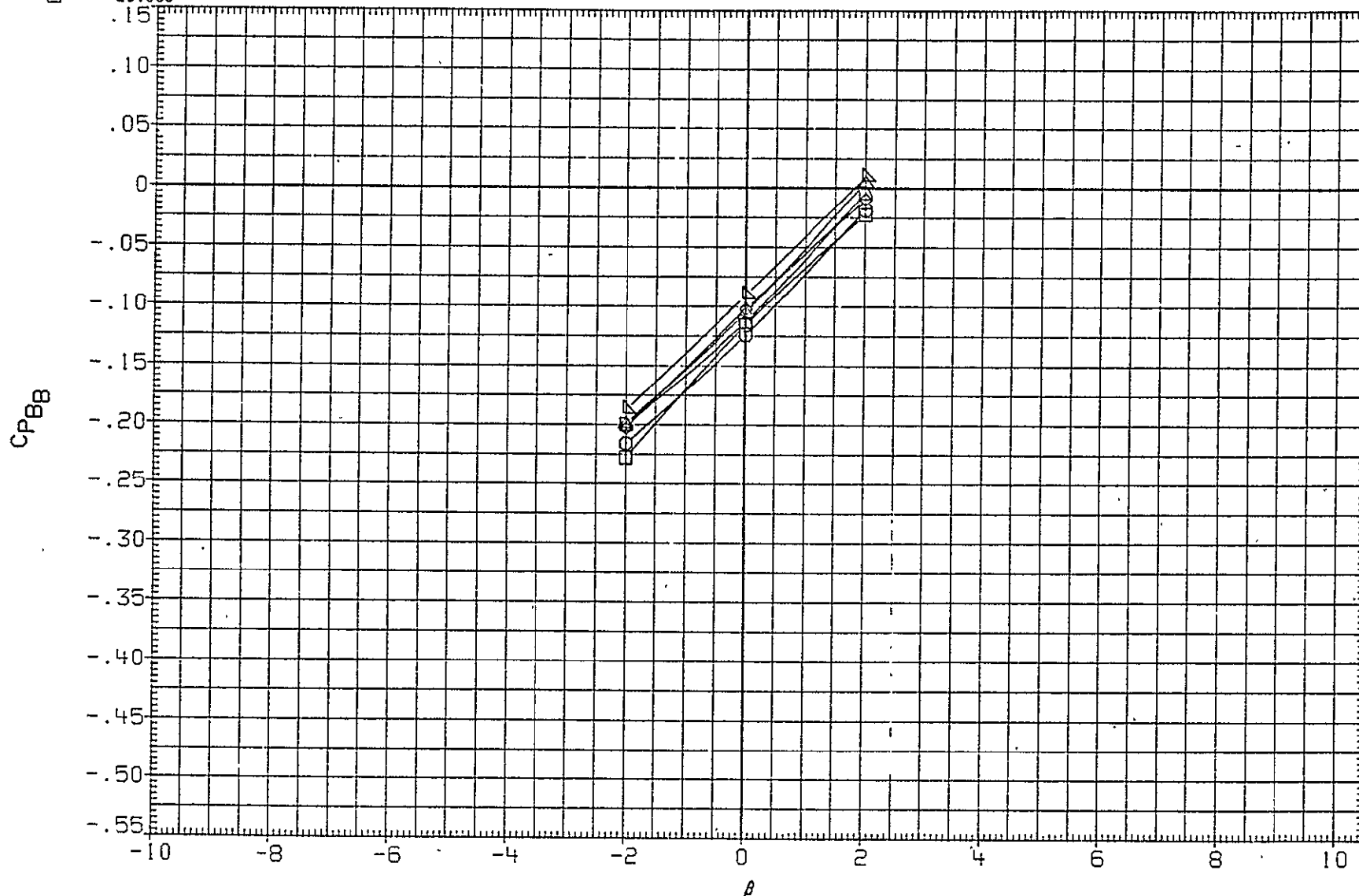


FIG. 9 FLIGHT TEST PROBE ANGLE OF SIDESLIP PRESSURE COEFFICIENT VARIATION WITH BETA

SYMBOL	ALPHA	BETA	PHI-N	PARAMETRIC VALUES	TPSGAP
◇	-2.000	-2.000	-2.000		.010
△	.000	.000	.000		
□	5.000				
○	10.000				
◇	15.000				
△	20.000				

β_f / β

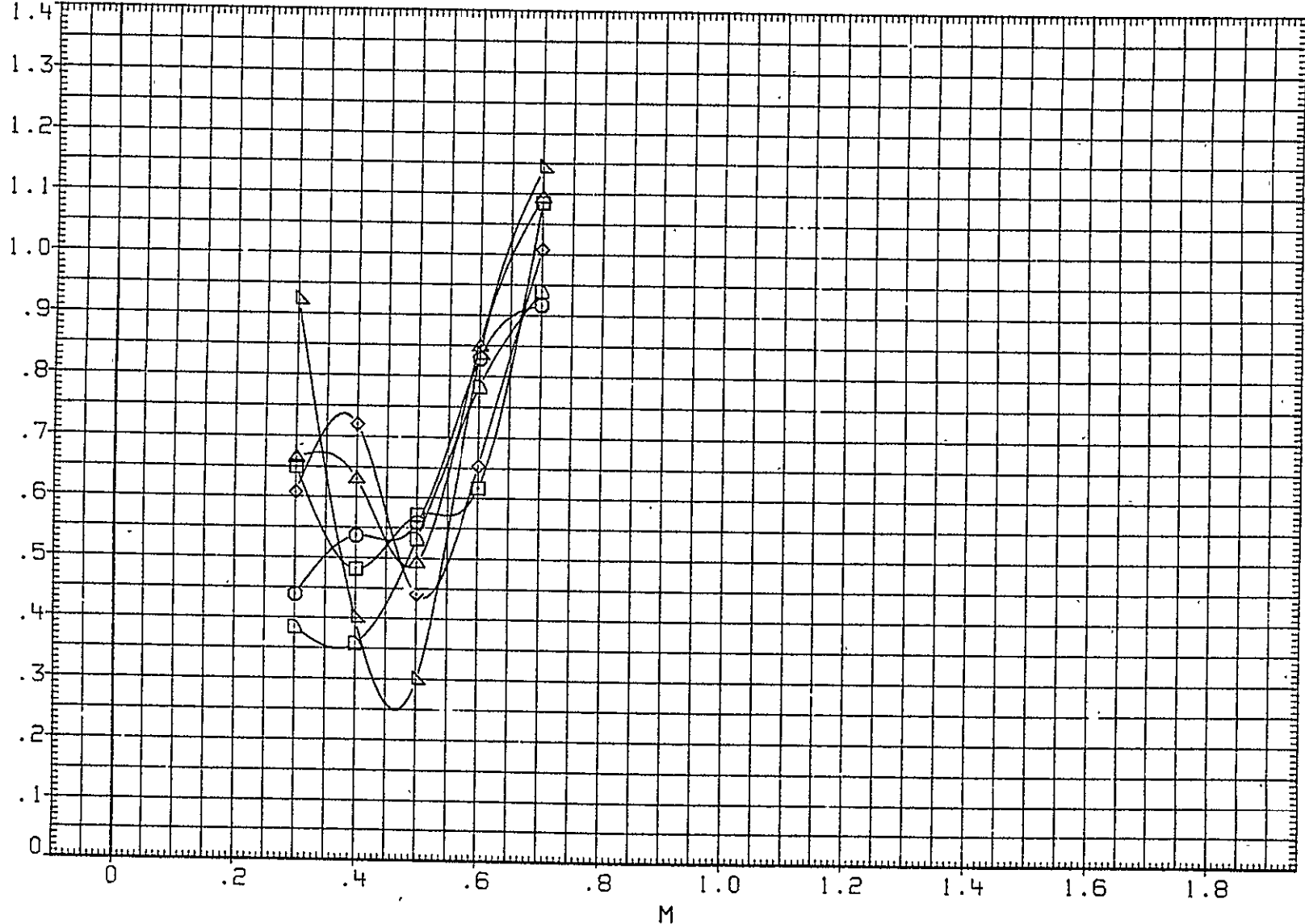


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER PITCH OR YAW

(KNL014) ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

SYMBOL	ALPHA	PARAMETRIC VALUES			
	□	-2.000	BETA	2.000	TPSGAP
◇	.000	PHI-N	.000		
△	5.000				
▽	10.000				
◇	15.000				
□	20.000				

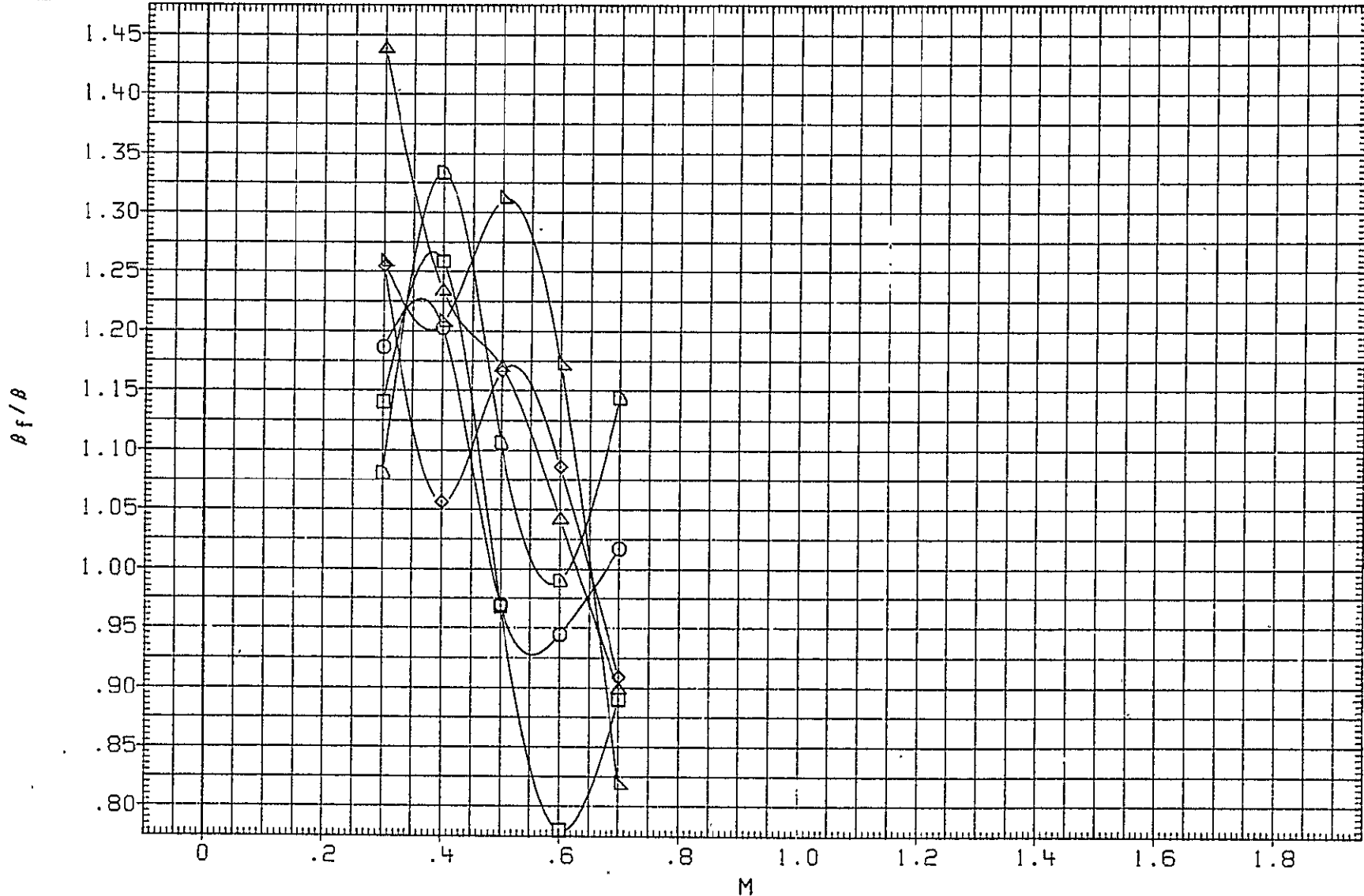


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER PITCH OR YAW

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(KNL513)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(KNL511)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(KNL514)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

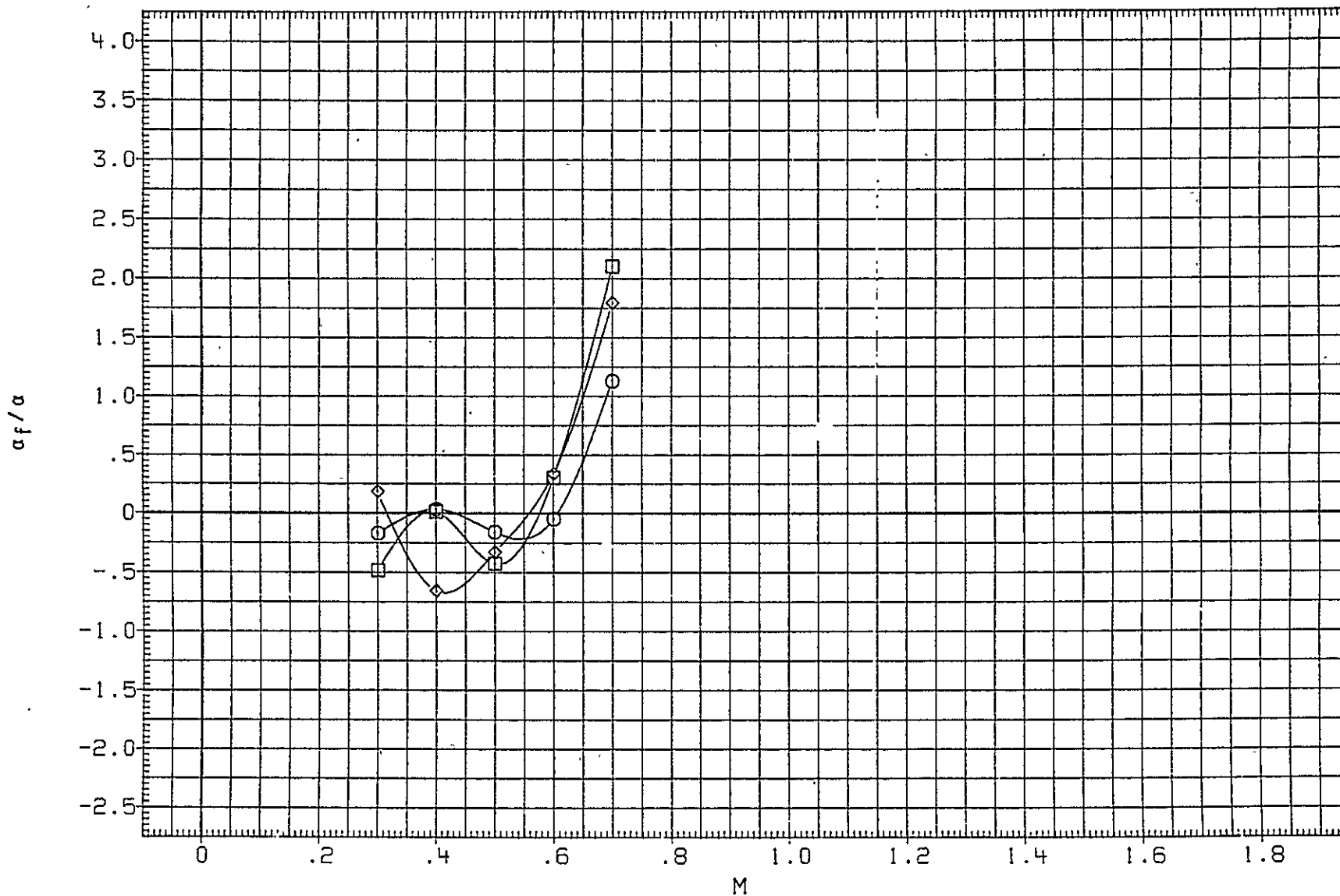


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER
PITCH OR YAW

(A) ALPHA = -2.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(KNL513)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(KNL511)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(KNL514)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

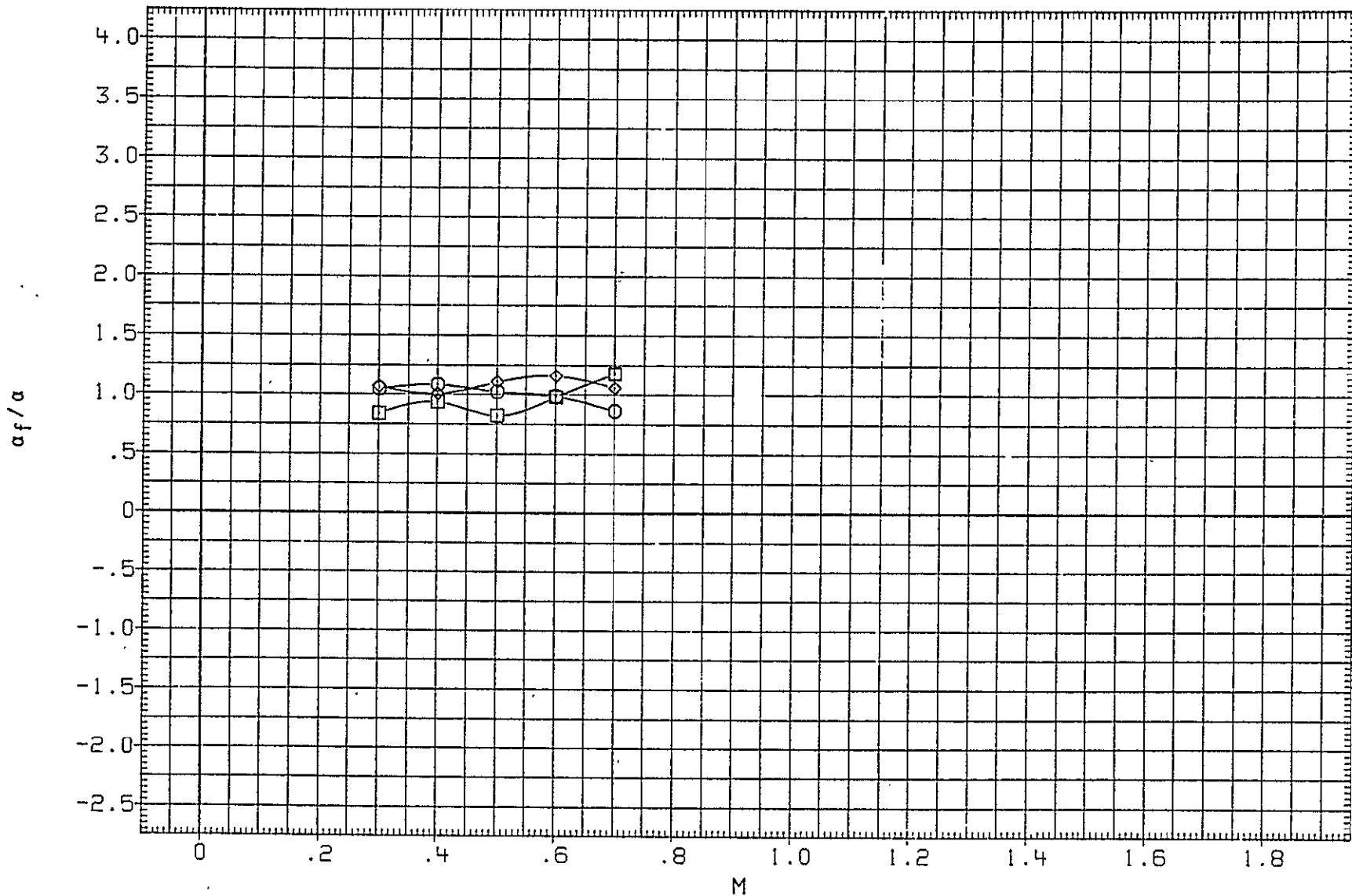


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER
PITCH OR YAW

(B) ALPHA = 5.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(KNL513)	○	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(KNL511)	□	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(KNL514)	◇	ARC 150-1-14 (OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

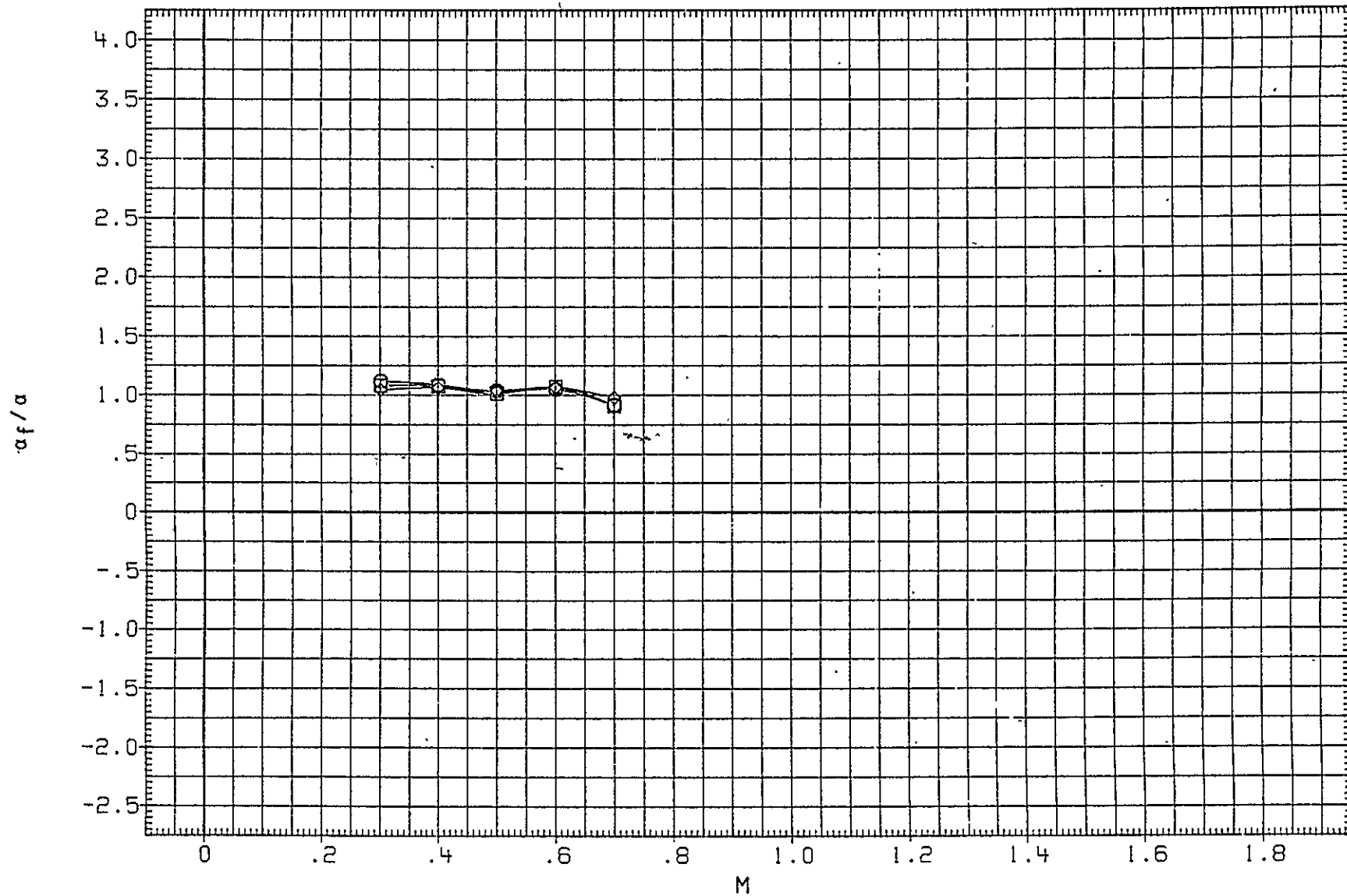


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER
PITCH OR YAW

(C) ALPHA = 10.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(KNL513)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(KNL511)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(KNL514)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.010	.000

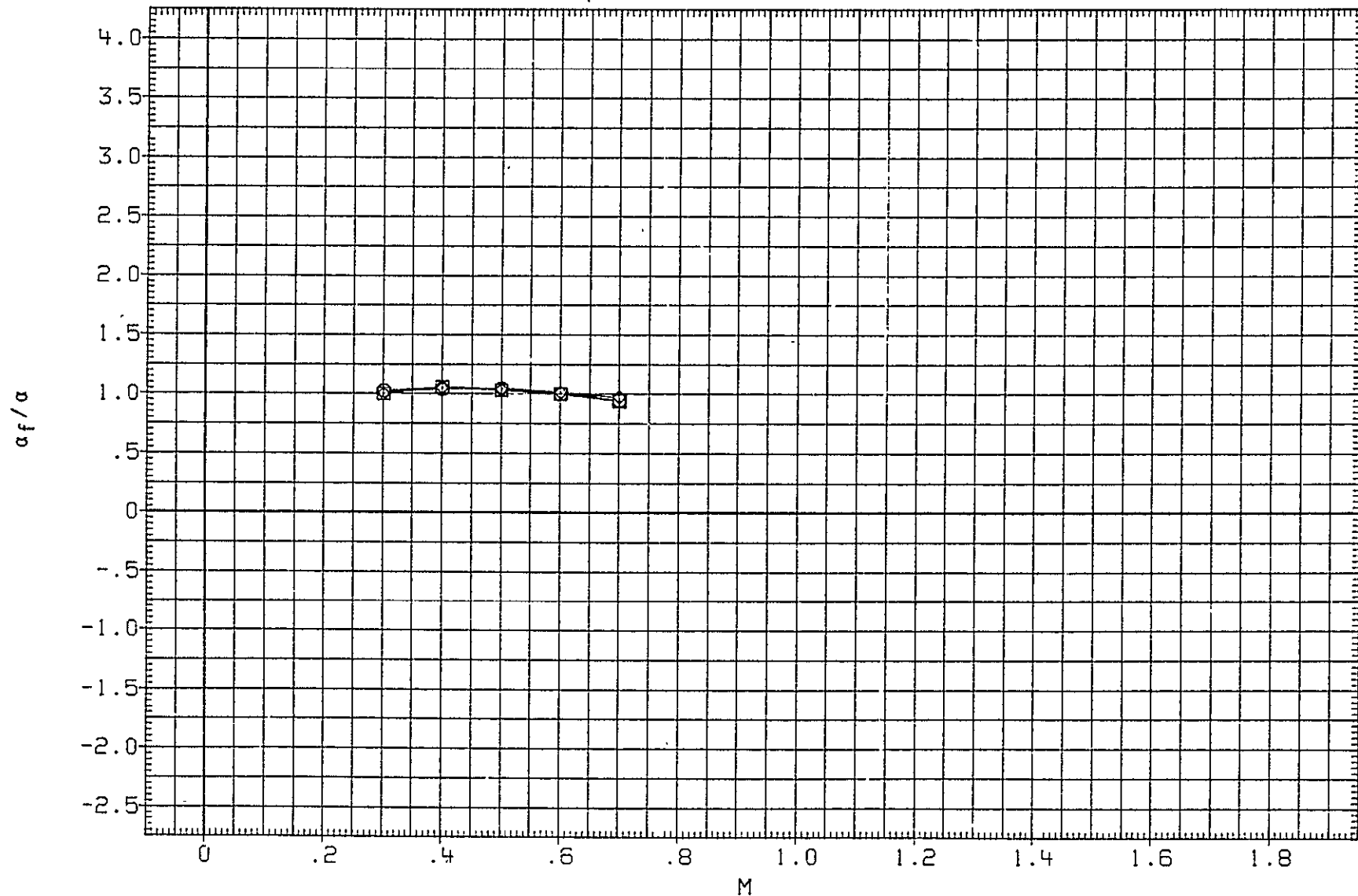


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER
PITCH OR YAW

(D) ALPHA = 15.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TPSGAP	PHI-N
(KNL513)	○	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	-2.000	.010	.000
(KNL511)	□	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	.000	.010	.000
(KNL514)	◇	ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM	2.000	.000	

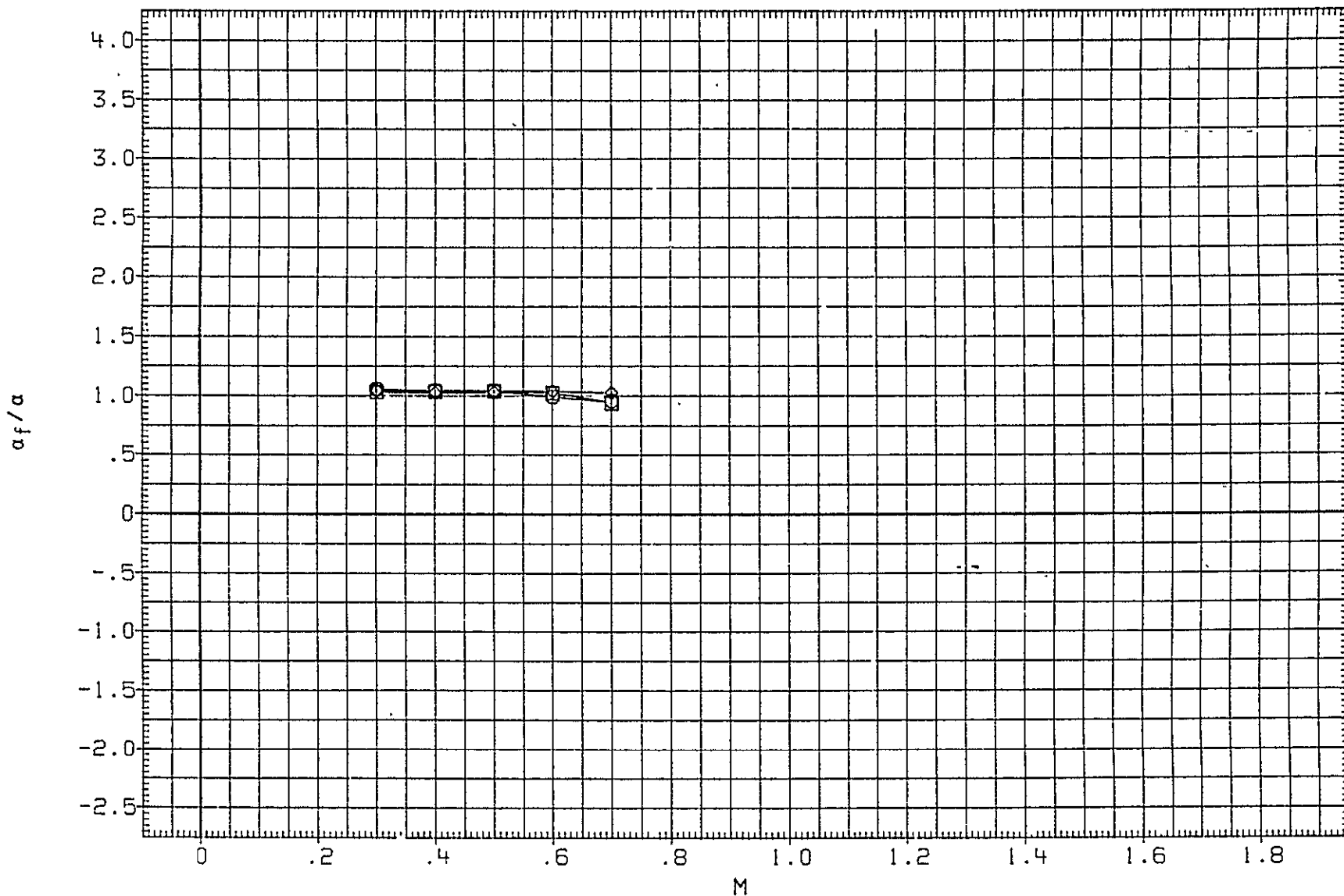


FIG. 10 MACH NUMBER EFFECT ON RATIOS OF MEASURED TO ACTUAL ANGLES OF ORBITER
PITCH OR YAW

(F) ALPHA = 20.00

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
on request from Data Management Services.

ARC 150-1-14(0A220) TPS

(RN1001) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .010

RUN NO. 1/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.399	-2.136	2120.00000	211.50000	1900.00000	70.10000	1419.00000	220.00000	-.13000
.397	-.111	2120.00000	210.20000	1902.00000	70.90000	1419.00000	218.59000	-.12000
.398	1.924	2120.00000	210.80000	1901.00000	71.60000	1419.00000	219.29000	-.12000
.399	3.969	2121.00000	211.50000	1901.00000	71.70000	1419.00000	220.00000	-.12000
.401	5.994	2121.00000	214.10000	1898.00000	72.20000	1419.00000	222.82000	-.13000
.402	8.090	2121.00000	214.70000	1898.00000	72.60000	1419.00000	223.53000	-.13000
.400	10.064	2120.00000	212.80000	1899.00000	72.40000	1419.00000	221.41000	-.13000
.401	12.140	2121.00000	213.40000	1899.00000	73.10000	1419.00000	222.11000	-.13000
.401	16.210	2121.00000	214.10000	1898.00000	73.50000	1420.00000	222.82000	-.12000
.400	20.371	2120.00000	212.80000	1899.00000	73.20000	1420.00000	221.41000	-.12000
.400	24.442	2121.00000	212.80000	1900.00000	73.30000	1420.00000	221.41000	-.12000
GRADIENT		.14765	.02997	.09778	.27008	.00000	.03491	.00147

RUN NO. 2/ 0 RN/L = 3.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.622	-2.227	2117.00000	441.50000	1631.00000	91.30000	1420.00000	485.79000	-.12000
.622	-.142	2116.00000	441.40000	1630.00000	91.50000	1420.00000	485.79000	-.13000
.622	1.883	2117.00000	441.50000	1631.00000	92.20000	1420.00000	485.79000	-.13000
.622	3.939	2116.00000	441.40000	1630.00000	92.00000	1420.00000	485.79000	-.13000
.621	5.994	2117.00000	440.90000	1632.00000	92.60000	1420.00000	485.08000	-.13000
.622	8.140	2118.00000	442.00000	1631.00000	93.50000	1420.00000	486.50000	-.13000
.622	10.206	2116.00000	442.00000	1630.00000	92.80000	1420.00000	486.50000	-.13000
.623	12.271	2117.00000	442.60000	1630.00000	93.20000	1420.00000	487.21000	-.13000
.622	16.453	2117.00000	442.00000	1630.00000	92.30000	1419.00000	486.49000	-.13000
.622	20.523	2117.00000	441.50000	1631.00000	93.50000	1419.00000	485.79000	-.11000
.620	24.766	2117.00000	439.10000	1634.00000	92.20000	1419.00000	482.94000	-.12000
GRADIENT		-.09831	-.00983	-.09831	.13627	.00000	.00000	-.00147

RUN NO. 3/ 0 RN/L = 3.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.700	-2.278	2115.00000	523.40000	1525.00000	97.80000	1420.00000	590.65000	-.13000
.701	-.182	2115.00000	524.40000	1523.00000	97.40000	1420.00000	592.08000	-.13000
.700	1.893	2115.00000	523.30000	1524.00000	99.20000	1419.00000	590.65000	-.13000
.700	3.979	2115.00000	522.80000	1523.00000	98.60000	1420.00000	589.94000	-.13000
.701	6.004	2115.00000	524.40000	1523.00000	100.30000	1420.00000	592.08000	-.13000
.699	8.140	2115.00000	521.70000	1526.00000	99.00000	1420.00000	588.51000	-.13000
.698	10.236	2115.00000	520.60000	1528.00000	99.20000	1420.00000	587.08000	-.13000
.699	12.282	2115.00000	521.70000	1527.00000	100.00000	1420.00000	588.51000	-.13000
.701	16.473	2115.00000	524.40000	1523.00000	99.80000	1420.00000	592.08000	-.12000
.700	20.665	2115.00000	523.30000	1525.00000	100.20000	1420.00000	590.65000	-.12000
.700	24.938	2115.00000	522.80000	1525.00000	100.80000	1420.00000	589.94000	-.11000
GRADIENT		-.14409	-.13874	.04741	.20117	-.04787	-.17026	-.00000

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ARC 150-1-14(0A220) TPS

(RNLO01) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 ; TPGAP = .010

RUN NO. 4/ 0 RN/L = 3.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.797	-2.167	2114.00000	618.80000	1390.00000	100.70000	1422.00000	723.50000	-.12000
.800	-.132	2113.00000	621.20000	1386.00000	103.80000	1422.00000	727.09000	-.13000
.800	1.974	2115.00000	621.80000	1387.00000	106.50000	1422.00000	727.81000	-.15000
.796	4.030	2113.00000	617.80000	1391.00000	111.90000	1422.00000	722.08000	-.14000
.799	6.166	2113.00000	619.70000	1388.00000	111.00000	1422.00000	724.93000	-.13000
.801	8.130	2114.00000	622.20000	1385.00000	112.50000	1422.00000	728.54000	-.13000
.800	10.186	2115.00000	621.30000	1388.00000	112.30000	1422.00000	727.09000	-.13000
.798	12.271	2115.00000	619.30000	1390.00000	112.80000	1422.00000	724.21000	-.12000
.802	16.494	2115.00000	623.80000	1384.00000	112.00000	1422.00000	730.71000	-.13000
.801	20.564	2115.00000	622.30000	1386.00000	113.50000	1422.00000	728.53000	-.12000
.797	24.766	2115.00000	618.80000	1391.00000	113.20000	1422.00000	723.50000	-.11000
GRADIENT		-.04657	-.11668	.19573	1.75360	.00000	-.17223	-.00387

RUN NO. 5/ 0 RN/L = 3.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.850	-2.177	2115.00000	667.10000	1318.00000	118.10000	1422.00000	796.52000	-.11000
.851	-.122	2115.00000	667.50000	1317.00000	117.00000	1422.00000	797.21000	-.12000
.850	2.136	2115.00000	667.10000	1318.00000	117.50000	1422.00000	796.52000	-.12000
.849	4.111	2115.00000	666.20000	1320.00000	115.60000	1422.00000	795.16000	-.13000
.850	6.197	2115.00000	666.60000	1319.00000	115.80000	1422.00000	795.84000	-.12000
.849	8.151	2115.00000	665.80000	1320.00000	117.20000	1423.00000	794.47000	-.13000
.856	10.277	2115.00000	672.30000	1310.00000	118.40000	1422.00000	804.72000	-.13000
.855	12.332	2115.00000	671.40000	1311.00000	118.40000	1422.00000	803.35000	-.13000
.855	16.595	2115.00000	671.50000	1312.00000	119.00000	1423.00000	803.36000	-.13000
.855	20.604	2115.00000	671.40000	1311.00000	119.70000	1422.00000	803.35000	-.13000
.858	24.907	2115.00000	673.60000	1308.00000	120.10000	1422.00000	806.77000	-.12000
GRADIENT		.00000	-.14583	.32960	-.32615	.00000	-.22462	-.00282

RUN NO. 6/ 0 RN/L = 3.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.905	-2.238	2115.00000	712.80000	1244.00000	124.10000	1423.00000	870.96000	-.11000
.906	-.010	2115.00000	714.00000	1242.00000	125.70000	1423.00000	872.98000	-.12000
.905	2.045	2115.00000	712.80000	1244.00000	125.50000	1423.00000	870.96000	-.12000
.905	4.182	2115.00000	712.80000	1244.00000	126.80000	1423.00000	870.96000	-.11000
.904	6.227	2115.00000	712.10000	1246.00000	127.70000	1424.00000	869.62000	-.11000
.905	8.211	2115.00000	712.80000	1244.00000	129.10000	1424.00000	870.96000	-.11000
.905	10.348	2115.00000	712.80000	1244.00000	129.80000	1424.00000	870.96000	-.11000
.905	12.423	2115.00000	713.30000	1243.00000	130.50000	1424.00000	871.63000	-.12000
.904	16.706	2115.00000	712.50000	1244.00000	129.40000	1424.00000	870.28000	-.13000
.906	25.140	2115.00000	714.00000	1242.00000	131.10000	1424.00000	872.98000	-.12000
GRADIENT		.00000	-.05308	.08847	.37272	.00000	-.08935	-.00002

ARC 150-1-14(0A220) TPS

(RNL001) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .010

RUN NO. 9/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.930	-2.177	2115.00000	732.80000	1209.00000	127.20000	1427.00000	905.44000	-.12000
.932	.041	2115.00000	734.00000	1208.00000	123.90000	1426.00000	907.48000	-.13000
.930	2.106	2115.00000	732.50000	1211.00000	125.40000	1426.00000	904.78000	-.14000
.930	4.111	2115.00000	732.50000	1211.00000	125.00000	1427.00000	904.78000	-.13000
.927	6.166	2115.00000	730.50000	1213.00000	124.70000	1427.00000	901.38000	-.11000
.926	8.232	2115.00000	729.30000	1215.00000	123.70000	1427.00000	899.35000	-.12000
.927	10.257	2115.00000	730.20000	1215.00000	123.70000	1426.00000	900.71000	-.12000
.926	12.454	2115.00000	729.30000	1215.00000	124.00000	1426.00000	899.35000	-.13000
.922	16.605	2115.00000	726.70000	1221.00000	122.50000	1426.00000	894.62000	-.14000
.916	20.756	2115.00000	721.60000	1229.00000	123.10000	1426.00000	885.83000	-.13000
.911	24.978	2115.00000	717.70000	1235.00000	122.50000	1426.00000	879.08000	-.14000
GRADIENT		.00001	-.11083	.42593	-.25199	-.00485	-.21700	-.00195

RUN NO. 8/ 0 RN/L = 3.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
1.044	-2.258	2116.00000	809.60000	1061.00000	149.10000	1426.00000	1054.63000	-.14000
1.043	-.091	2115.00000	808.60000	1063.00000	149.40000	1426.00000	1052.63000	-.13000
1.041	2.025	2115.00000	807.60000	1065.00000	148.90000	1426.00000	1050.66000	-.15000
1.039	4.111	2115.00000	806.70000	1067.00000	149.90000	1426.00000	1048.60001	-.14000
1.037	6.267	2115.00000	805.30000	1070.00000	150.70000	1426.00000	1045.61000	-.13000
1.034	8.211	2115.00000	803.10000	1073.00000	150.80000	1426.00000	1041.16000	-.15000
1.034	10.338	2115.00000	803.10000	1073.00000	149.80000	1426.00000	1041.16000	-.15000
1.031	12.423	2115.00000	801.50000	1078.00000	149.40000	1426.00000	1037.39999	-.15000
1.025	16.696	2115.00000	797.90000	1085.00000	150.00000	1426.00000	1029.91000	-.14000
1.016	20.736	2115.00000	792.50000	1095.00000	148.20000	1426.00000	1018.77000	-.14000
1.009	24.989	2115.00000	787.70000	1106.00000	149.30000	1426.00000	1009.10000	-.13000
GRADIENT		-.142-3	-.45713	.94235	.08900	-.00001	-.94513	-.00094

RUN NO. 7/ 0 RN/L = 3.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
1.121	-2.288	2113.00000	847.80000	964.00000	181.70000	1425.00000	1144.66000	-.13000
1.136	-.071	2117.00000	856.10000	948.00000	158.20000	1425.00000	1163.66000	-.11000
1.137	2.096	2118.00000	856.70000	947.00000	153.00000	1425.00000	1164.99001	-.11000
1.132	4.182	2115.00000	853.80000	952.00000	151.90000	1425.00000	1158.44000	-.13000
1.129	6.257	2116.00000	852.60000	955.00000	152.60000	1425.00000	1157.23000	-.13000
1.125	8.282	2117.00000	851.20000	961.00000	153.30000	1426.00000	1151.36000	-.13000
1.123	10.307	2117.00000	850.50000	963.00000	155.00000	1426.00000	1149.41000	-.13000
1.119	12.504	2117.00000	848.60000	968.00000	155.00000	1426.00000	1144.82001	-.15000
1.116	16.888	2116.00000	846.90000	972.00000	156.20000	1426.00000	1140.73000	-.13000
1.109	20.837	2117.00000	844.10000	980.00000	155.80000	1426.00000	1133.82001	-.14000
1.101	25.080	2118.00000	840.50000	990.00000	155.90000	1426.00000	1124.75000	-.12000
GRADIENT		.33433	.87745	-1.74301	-4.41433	.00000	2.01273	.00006

ARC 150-1-14(0A220) TPS(MOD)+ADP

(RN002) (12 JAN 76 12:33)

PARAMETRIC DATA

BETA = .000 TSPGAP = .000

RUN NO. 52/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-1.314	2128.00000	442.80000	1641.00000	94.80000	1427.00000	487.17000	-.12000
.620	.101	2127.00000	441.70000	1642.00000	93.00000	1427.00000	485.75000	-.13000
.619	2.248	2127.00000	440.50000	1643.00000	92.00000	1427.00000	484.32000	-.13000
.617	4.242	2127.00000	438.20000	1646.00000	91.90000	1427.00000	481.47000	-.13000
.622	6.176	2127.00000	443.40000	1640.00000	91.20000	1427.00000	487.88000	-.13000
.620	8.333	2127.00000	441.70000	1642.00000	90.30000	1427.00000	485.75000	-.13000
.619	10.449	2127.00000	440.50000	1643.00000	90.20000	1427.00000	484.32000	-.13000
.620	12.484	2127.00000	441.70000	1642.00000	90.80000	1427.00000	485.75000	-.13000
.621	16.544	2128.00000	442.80000	1641.00000	90.20000	1427.00000	487.17000	-.12000
	GRADIENT	-.14507	.72655	.77419	-.47092	.00000	-.89743	-.00145

RUN NO. 51/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.901	-1.974	2123.00000	712.10000	1254.00000	107.60000	1425.00000	868.39000	-.12000
.898	.192	2123.00000	710.10000	1258.00000	111.10000	1426.00000	865.03000	-.12000
.901	2.207	2123.00000	712.50000	1254.00000	114.70000	1426.00000	869.07000	-.12000
.902	4.374	2123.00000	713.70000	1252.00000	110.80000	1426.00000	871.10000	-.12000
.902	6.389	2125.00000	713.90000	1253.00000	111.80000	1426.00000	871.13000	-.12000
.899	8.454	2124.00000	711.40000	1257.00000	112.50000	1426.00000	867.06000	-.11000
.901	10.540	2124.00000	713.00000	1254.00000	112.30000	1427.00000	869.77000	-.11000
.903	12.666	2125.00000	714.30000	1253.00000	112.40000	1427.00000	871.80000	-.12000
.901	16.828	2125.00000	712.70000	1255.00000	114.50000	1427.00000	869.10000	-.14000
	GRADIENT	-.00001	.33797	-.46789	.62145	.14311	.57131	.00000

ARC 150-1-14(0A220) TPS+ADP

(RNL003) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .010

RUN NO. 50/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-1.944	2126.00000	442.80000	1639.00000	80.70000	1434.00000	487.19000	-.12000
.618	.071	2127.00000	439.90000	1643.00000	82.10000	1434.00000	483.61000	-.13000
.619	2.086	2127.00000	440.50000	1642.00000	83.60000	1434.00000	484.32000	-.13000
.621	4.222	2127.00000	442.80000	1640.00000	81.10000	1434.00000	487.17000	-.13000
.623	6.217	2127.00000	445.10000	1637.00000	84.30000	1434.00000	490.03000	-.13000
.623	8.313	2127.00000	445.10000	1637.00000	84.60000	1434.00000	490.03000	-.13000
.621	10.388	2127.00000	442.80000	1640.00000	85.10000	1434.00000	487.17000	-.13000
.622	12.433	2127.00000	443.40000	1639.00000	85.20000	1434.00000	487.89000	-.13000
.622	16.595	2127.00000	444.00000	1639.00000	85.40000	1434.00000	488.60000	-.13000
GRADIENT		.14503	.03623	.08997	.12478	.00000	.04034	-.00145

RUN NO. 49/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.901	-1.944	2121.00000	711.50000	1253.00000	120.00000	1432.00000	867.69000	-.12000
.899	.142	2122.00000	710.40000	1256.00000	121.50000	1432.00000	865.68000	-.12000
.898	2.278	2121.00000	709.50000	1257.00000	123.80000	1432.00000	864.31000	-.12000
.901	4.313	2122.00000	712.00000	1253.00000	125.10000	1432.00000	868.38000	-.12000
.900	6.338	2123.00000	711.60000	1255.00000	127.80000	1432.00000	867.71000	-.12000
.902	8.414	2123.00000	712.90000	1253.00000	127.80000	1432.00000	869.74000	-.11000
.899	10.469	2122.00000	710.80000	1255.00000	128.40000	1432.00000	866.35000	-.11000
GRADIENT		.09426	.02550	.05292	.84245	.00000	.02829	-.00000

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PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 28/ 0 RN/L = 2.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.396	-2.430	2129.00000	209.70000	1911.00000	67.00000	1465.00000	217.89000	1.69000
.399	-.294	2129.00000	212.80000	1907.00000	68.00000	1465.00000	221.41000	1.89000
.397	1.701	2129.00000	210.90000	1910.00000	67.80000	1465.00000	219.29000	1.89000
.397	3.736	2129.00000	210.90000	1910.00000	67.40000	1465.00000	219.29000	1.88000
.399	5.711	2129.00000	212.20000	1908.00000	64.60000	1465.00000	220.70000	1.88000
.399	7.756	2129.00000	212.80000	1907.00000	66.30000	1465.00000	221.41000	1.87000
.400	9.730	2129.00000	213.40000	1907.00000	66.00000	1465.00000	222.11000	1.86000
.401	12.099	2130.00000	214.70000	1906.00000	65.60000	1465.00000	223.52000	1.85000
.401	15.937	2130.00000	214.80000	1907.00000	65.50000	1466.00000	223.52000	1.82000
.402	19.946	2130.00000	215.40000	1905.00000	65.10000	1466.00000	224.22000	1.78000
	GRADIENT	.00000	.10447	-.00916	.05091	.00000	.10909	-.00146

RUN NO. 40/ 0 RN/L = 3.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-2.420	2126.00000	442.20000	1640.00000	109.30000	1431.00000	486.46000	1.91000
.621	-.435	2126.00000	442.20000	1640.00000	106.60000	1431.00000	486.46000	1.91000
.621	1.580	2126.00000	442.80000	1639.00000	105.80000	1431.00000	487.19000	1.90000
.622	3.685	2126.00000	443.90000	1637.00000	104.60000	1431.00000	488.60000	1.90000
.622	5.700	2127.00000	443.40000	1639.00000	103.60000	1431.00000	487.89000	1.89000
.620	7.766	2126.00000	441.60000	1640.00000	103.50000	1431.00000	485.76000	1.89000
.622	9.902	2127.00000	444.00000	1639.00000	102.30000	1431.00000	488.60000	1.89000
.619	11.765	2126.00000	440.50000	1642.00000	102.10000	1432.00000	484.33000	1.88000
.620	15.927	2126.00000	441.60000	1640.00000	100.60000	1431.00000	485.76000	1.85000
.620	19.997	2126.00000	441.10000	1641.00000	100.10000	1432.00000	485.04000	1.80000
	GRADIENT	.00000	.28191	-.49471	-.73087	.00000	.35368	-.00196

RUN NO. 41/ 0 RN/L = 3.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.699	-2.410	2125.00000	524.70000	1533.00000	102.20000	1432.00000	592.04000	1.91000
.700	-.344	2125.00000	525.80000	1532.00000	102.40000	1432.00000	593.47000	1.91000
.700	1.691	2125.00000	525.80000	1532.00000	102.60000	1432.00000	593.47000	1.91000
.701	3.777	2126.00000	526.40000	1532.00000	102.10000	1432.00000	594.18000	1.90000
.701	5.711	2126.00000	526.90000	1531.00000	101.90000	1432.00000	594.90000	1.90000
.701	7.746	2125.00000	526.40000	1531.00000	102.80000	1433.00000	594.19000	1.90000
.700	9.760	2125.00000	525.30000	1533.00000	102.90000	1432.00000	592.76000	1.90000
.701	11.826	2126.00000	526.40000	1532.00000	104.00000	1432.00000	594.18000	1.89000
.699	15.987	2126.00000	524.80000	1534.00000	101.80000	1432.00000	592.03000	1.86000
.699	20.007	2125.00000	524.70000	1533.00000	102.50000	1433.00000	592.04000	1.81000
	GRADIENT	.14610	.24784	-.14562	-.00516	.00000	.31197	-.00146

ARC 150-1-14(0A220) TPS+ADP

(RNL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 42/ 0 RN/L = 3.85 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA	
.799	-2.349	2125.00000	623.80000	1395.00000	113.00000	1434.00000	729.89000	1.94000	
.800	-.456	2125.00000	624.80000	1394.00000	112.50000	1434.00000	731.33000	1.93000	
.797	1.600	2125.00000	621.40000	1398.00000	111.90000	1434.00000	726.31000	1.93000	
.802	3.665	2125.00000	626.70000	1390.00000	112.50000	1434.00000	734.25000	1.93000	
.801	5.711	2125.00000	625.80000	1393.00000	112.70000	1434.00000	732.79000	1.93000	
.800	7.766	2124.00000	624.20000	1393.00000	111.60000	1434.00000	730.62000	1.93000	
.799	9.831	2125.00000	623.80000	1395.00000	111.30000	1434.00000	729.89000	1.92000	
.800	11.917	2125.00000	624.80000	1393.00000	111.40000	1434.00000	73.34000	1.91000	
.801	15.997	2125.00000	625.80000	1393.00000	111.30000	1434.00000	732.79000	1.86000	
.804	20.159	2125.00000	627.70000	1389.00000	112.40000	1434.00000	735.70000	1.81000	
GRADIENT		.00000	.26783	-.55560	-.10259	-.00000	.40741	-.00147	
RUN NO. 48/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA	
.845	-2.521	2123.00000	665.10000	1330.00000	106.60000	1436.00000	792.53000	1.96000	
.848	-.415	2123.00000	667.40000	1327.00000	110.40000	1436.00000	795.95000	1.96000	
.849	1.762	2123.00000	668.20000	1326.00000	111.50000	1436.00000	797.32000	1.96000	
.848	3.777	2124.00000	668.30000	1327.00000	114.40000	1436.00000	797.33000	1.95000	
.849	5.731	2124.00000	668.70000	1326.00000	114.80000	1436.00000	798.01000	1.94000	
.850	7.837	2123.00000	669.10000	1324.00000	115.90000	1436.00000	798.68000	1.94000	
.849	9.842	2124.00000	668.70000	1326.00000	115.40000	1436.00000	798.01000	1.93000	
.851	12.028	2124.00000	670.50000	1323.00000	118.20000	1436.00000	800.74000	1.91000	
.849	16.008	2124.00000	668.70000	1326.00000	117.90000	1436.00000	798.01000	1.87000	
.848	20.321	2124.00000	668.30000	1327.00000	118.70000	1436.00000	797.33000	1.80000	
GRADIENT		.14080	.49532	-.47861	1.16110	.00000	.75143	-.00141	
RUN NO. 46/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA	
.902	-2.420	2123.00000	713.30000	1253.00000	123.60000	1438.00000	870.43000	1.98000	
.901	-.344	2123.00000	712.50000	1253.00000	122.70000	1438.00000	869.06000	1.99000	
.901	1.681	2123.00000	712.50000	1253.00000	122.40000	1438.00000	869.06000	1.99000	
.900	3.756	2123.00000	711.70000	1255.00000	120.40000	1438.00000	867.73000	1.99000	
.899	5.873	2123.00000	711.30000	1256.00000	120.30000	1439.00000	867.05000	1.97000	
.900	7.908	2123.00000	711.70000	1255.00000	119.40000	1439.00000	867.73000	1.95000	
.900	10.054	2123.00000	711.60000	1255.00000	118.00000	1439.00000	867.71000	1.94000	
.899	12.120	2123.00000	710.80000	1256.00000	114.80000	1438.00000	866.36000	1.92000	
.900	16.170	2123.00000	711.70000	1255.00000	114.50000	1439.00000	867.73000	1.88000	
.900	20.412	2123.00000	712.10000	1255.00000	114.50000	1439.00000	868.40000	1.84000	
GRADIENT		.00000	-.23391	.29239	-.48220	.00000	-.39472	.00146	

ARC 150-1-14(0A220) TPS+ADP

(RNLO04) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TSPGAP = .010

RUN NO. 39/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.950	-2.460	2121.00000	749.50000	1187.00000	123.80000	1429.00000	934.15000	1.98000
.949	-.415	2123.00000	749.30000	1189.00000	127.20000	1429.00000	933.40000	2.01000
.954	1.671	2122.00000	752.80000	1182.00000	129.60000	1429.00000	939.97000	2.00000
.953	3.706	2123.00000	752.10000	1184.00000	132.00000	1429.00000	938.50000	2.01000
.950	5.862	2123.00000	750.10000	1188.00000	133.40000	1429.00000	934.86000	1.98000
.949	7.928	2121.00000	749.10000	1188.00000	134.80000	1429.00000	933.43000	1.97000
.948	9.993	2123.00000	748.90000	1190.00000	137.00000	1429.00000	932.67000	1.95000
.950	12.059	2123.00000	750.10000	1188.00000	138.30000	1429.00000	934.86000	1.97000
.945	16.271	2122.00000	746.00000	1194.00000	140.30000	1429.00000	927.58000	1.93000
.938	20.503	2123.00000	741.00000	1204.00000	140.90000	1430.00000	918.43000	1.86000
GRADIENT		.24194	.55071	-.78115	1.31157	.00000	.95653	.00388

RUN NO. 43/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.982	-2.430	2124.00000	773.20000	1146.00000	130.20000	1435.00000	977.88000	2.00000
.979	-.435	2124.00000	771.30000	1150.00000	132.40000	1435.00000	974.20000	2.01000
.976	1.741	2123.00000	769.30000	1153.00000	135.60000	1435.00000	970.53000	2.01000
.978	3.817	2123.00000	770.40000	1150.00000	138.30000	1436.00000	972.74000	2.00000
.980	5.832	2123.00000	772.00000	1147.00000	136.20000	1436.00000	975.68000	1.99000
.979	7.948	2123.00000	770.70000	1149.00000	136.60000	1436.00000	973.49000	1.99000
.979	9.892	2123.00000	770.80000	1150.00000	139.80000	1436.00000	973.48000	1.98000
.979	12.130	2123.00000	770.70000	1149.00000	138.30000	1436.00000	973.49000	1.97000
.978	16.342	2124.00000	770.50000	1151.00000	143.20000	1436.00000	972.72000	1.93000
.977	20.533	2123.00000	769.70000	1152.00000	143.30000	1436.00000	971.27000	1.88000
GRADIENT		-.19247	-.49634	.71365	1.31574	.14366	-.91072	-.00002

RUN NO. 44/ 0 RN/L = 3.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
1.047	-2.491	2123.00000	813.70000	1061.00000	153.40000	1437.00000	1061.42999	1.98000
1.046	-.466	2123.00000	813.50000	1062.00000	154.90000	1436.00000	1060.80000	1.99000
1.044	1.752	2124.00000	812.40000	1065.00000	156.40000	1437.00000	1058.19000	2.00000
1.042	3.827	2123.00000	810.70000	1067.00000	154.80000	1437.00000	1054.84000	1.96000
1.040	5.802	2123.00000	810.20000	1069.00000	155.40000	1437.00000	1053.55000	1.98000
1.038	7.867	2123.00000	808.40000	1072.00000	157.30000	1437.00000	1049.89999	1.97000
1.034	9.963	2123.00000	806.70000	1077.00000	158.40000	1437.00000	1046.14999	1.96000
1.033	12.028	2123.00000	806.70000	1079.00000	157.90000	1437.00000	1043.19100	1.96000
1.026	16.261	2122.00000	800.90000	1087.00000	158.00000	1437.00000	1034.22000	1.93000
1.017	20.392	2123.00000	795.30000	1099.00000	160.50000	1437.00000	1023.04000	1.88000
GRADIENT		.04889	-.47800	.99443	.26972	.05002	-1.05925	-.00235

ARC 150-1-14(OA220) TPS+ADP

(RNL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010

RUN NO. 45/ 0 RN/L = 3.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
1.094	-2.450	2123.00000	839.20000	1002.00000	166.80000	1437.00000	1119.12000	1.98000
1.092	-.446	2123.00000	837.80000	1004.00000	169.10000	1437.00000	1116.30000	1.98000
1.093	1.772	2121.00000	838.20000	1001.00000	146.80000	1437.00000	1117.71001	1.98000
1.092	3.959	2123.00000	837.80000	1004.00000	155.60000	1437.00000	1116.30000	1.96000
1.089	5.893	2123.00000	836.60000	1007.00000	158.00000	1437.00000	1113.46001	1.96000
1.087	7.867	2123.00000	835.90000	1010.00000	156.90000	1437.00000	1111.33000	1.96000
1.085	10.024	2123.00000	834.90000	1012.00000	157.00000	1438.00000	1109.17999	1.95000
	GRADIENT	-.09243	-.17376	.13600	-2.62197	-.00000	-.32207	-.00283

ARC 150-1-14(OA220) TPS+ADP

(RNL005) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010

RUN NO. 29/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.619	-2.460	2125.00000	440.50000	1641.00000	91.40000	1458.00000	484.33000	1.92000
.620	-.375	2126.00000	441.10000	1641.00000	93.70000	1458.00000	485.04000	1.90000
.618	1.661	2125.00000	438.70000	1643.00000	94.00000	1459.00000	482.19000	1.90000
.618	3.675	2126.00000	439.30000	1643.00000	94.70000	1460.00000	482.90000	1.90000
.620	5.731	2125.00000	441.00000	1640.00000	96.80000	1460.00000	485.05000	1.90000
.618	7.796	2125.00000	438.70000	1643.00000	97.40000	1460.00000	482.19000	1.89000
.622	9.852	2125.00000	443.40000	1637.00000	94.80000	1460.00000	487.89000	1.88000
.621	11.917	2125.00000	442.80000	1638.00000	95.00000	1461.00000	487.18000	1.87000
.620	16.008	2125.00000	441.00000	1640.00000	95.80000	1461.00000	485.05000	1.84000
.618	20.098	2125.00000	439.30000	1642.00000	95.40000	1461.00000	482.90000	1.80000
	GRADIENT	.09813	-.29305	.39103	.50046	.34148	-.34873	-.00295

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 30/ 0 RN/L = 3.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.703	-2.470	2123.00000	528.40000	1526.00000	102.80000	1462.00000	597.05000	1.91000
.704	-.385	2123.00000	529.00000	1525.00000	104.20000	1462.00000	597.77000	1.91000
.703	1.671	2123.00000	527.90000	1526.00000	104.60000	1462.00000	596.34000	1.92000
.704	3.696	2122.00000	528.40000	1525.00000	104.20000	1462.00000	597.06000	1.91000
.703	5.792	2124.00000	528.50000	1527.00000	104.80000	1462.00000	597.05000	1.91000
.701	7.806	2123.00000	526.30000	1529.00000	105.00000	1463.00000	594.19000	1.90000
.701	9.882	2123.00000	526.30000	1529.00000	104.30000	1463.00000	594.19000	1.89000
.700	11.877	2124.00000	525.20000	1531.00000	105.20000	1463.00000	592.76000	1.89000
.702	16.058	2125.00000	527.40000	1529.00000	104.10000	1465.00000	595.61000	1.85000
.701	20.179	2125.00000	526.30000	1530.00000	104.20000	1466.00000	594.19000	1.81000
GRADIENT	-.14523		-.05344	-.09730	.22509	.00000	-.06811	.00049

RUN NO. 32/ 0 RN/L = 3.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.801	-2.460	2125.00000	625.30000	1393.00000	109.00000	1417.00000	732.07000	1.93000
.802	-.415	2125.00000	626.30000	1391.00000	110.40000	1417.00000	733.52000	1.93000
.801	1.691	2125.00000	625.30000	1393.00000	109.40000	1417.00000	732.07000	1.94000
.800	3.635	2125.00000	624.80000	1394.00000	109.90000	1417.00000	731.33000	1.94000
.801	5.761	2125.00000	625.30000	1393.00000	110.40000	1417.00000	732.06000	1.93000
.800	7.786	2125.00000	624.80000	1393.00000	111.20000	1418.00000	731.34000	1.92000
.800	9.842	2124.00000	624.20000	1393.00000	111.00000	1418.00000	730.62000	1.91000
.801	11.927	2125.00000	625.80000	1393.00000	111.90000	1418.00000	732.79000	1.90000
.799	16.099	2125.00000	623.30000	1396.00000	112.00000	1419.00000	729.17000	1.86000
.800	20.179	2125.00000	624.80000	1394.00000	111.40000	1419.00000	731.33000	1.81000
GRADIENT	-.00000		-.12208	.24417	.08235	-.00000	-.17920	.00197

RUN NO. 33/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.850	-2.430	2124.00000	670.00000	1324.00000	113.00000	1419.00000	800.05000	1.95000
.850	-.456	2125.00000	669.70000	1325.00000	112.70000	1419.00000	799.38000	1.96000
.850	1.752	2125.00000	670.10000	1325.00000	114.60000	1419.00000	800.07000	1.96000
.850	3.777	2125.00000	669.70000	1325.00000	114.20000	1419.00000	799.38000	1.96000
.847	5.741	2125.00000	667.00000	1329.00000	115.50000	1420.00000	795.28000	1.94000
.848	7.887	2125.00000	667.90000	1328.00000	114.80000	1421.00000	796.65000	1.94000
.848	9.922	2124.00000	667.80000	1327.00000	115.40000	1420.00000	796.64000	1.92000
.847	11.978	2125.00000	667.00000	1329.00000	116.20000	1420.00000	795.28000	1.91000
.840	16.129	2124.00000	660.80000	1338.00000	118.80000	1421.00000	785.71000	1.86000
GRADIENT	.14245		-.02262	.14244	.26821	.00000	-.06074	.00142

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 36/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.902	-2.420	2124.00000	713.80000	1253.00000	123.30000	1424.00000	871.11000	1.98000
.900	-.385	2124.00000	712.20000	1255.00000	120.60000	1424.00000	868.41000	1.99000
.899	1.762	2124.00000	711.40000	1257.00000	119.90000	1424.00000	867.06000	1.98000
.898	3.756	2124.00000	710.60000	1258.00000	121.10000	1424.00000	865.71000	1.98000
.898	5.781	2123.00000	710.10000	1258.00000	119.00000	1424.00000	865.03000	1.97000
.898	7.827	2125.00000	710.70000	1259.00000	118.60000	1426.00000	865.73000	1.95000
.900	9.922	2123.00000	711.70000	1255.00000	119.30000	1426.00000	867.73000	1.94000
.899	12.170	2124.00000	711.40000	1257.00000	118.70000	1426.00000	867.06000	1.92000
.900	16.210	2123.00000	711.70000	1255.00000	119.70000	1426.00000	867.73000	1.88000
.898	20.331	2123.00000	710.50000	1257.00000	119.30000	1426.00000	865.70000	1.83000
GRADIENT		.00000	-.50281	.82318	-.35480	.00000	-.84849	-.00050

RUN NO. 38/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.950	-2.450	2124.00000	750.60000	1188.00000	121.10000	1428.00000	935.56000	1.99000
.951	-.334	2124.00000	751.40000	1187.00000	121.60000	1428.00000	937.03000	2.00000
.948	1.691	2123.00000	748.90000	1190.00000	122.20000	1428.00000	932.67000	2.01000
.950	3.787	2123.00000	750.50000	1187.00000	124.50000	1428.00000	935.59000	1.99000
.949	5.761	2123.00000	749.30000	1190.00000	125.10000	1428.00000	933.39000	1.98000
.948	7.867	2123.00000	748.50000	1191.00000	126.50000	1428.00000	931.95000	1.97000
.950	9.833	2123.00000	750.10000	1188.00000	128.00000	1428.00000	934.85000	1.95000
.948	12.150	2123.00000	748.90000	1190.00000	128.60000	1428.00000	932.66000	1.96000
.948	16.210	2123.00000	748.90000	1190.00000	129.60000	1428.00000	932.67000	1.91000
.941	20.412	2123.00000	743.60000	1199.00000	129.90000	1428.00000	923.20000	1.85000
GRADIENT		-.19213	-.13242	-.00330	.52098	.00000	-.20131	.00048

RUN NO. 34/ 0 RN/L = 3.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.974	-2.450	2123.00000	767.70000	1156.00000	138.50000	1421.00000	967.62000	1.99000
.977	-.415	2123.00000	769.60000	1151.00000	146.30000	1422.00000	971.28000	2.01000
.974	1.752	2123.00000	767.70000	1156.00000	139.00000	1421.00000	967.62000	2.00000
.974	3.787	2123.00000	767.40000	1156.00000	140.90000	1421.00000	966.89000	2.00000
.972	5.812	2123.00000	766.20000	1158.00000	141.90000	1422.00000	964.71000	1.98000
.975	7.887	2123.00000	768.10000	1155.00000	144.40000	1422.00000	968.35000	1.97000
.974	10.014	2123.00000	767.40000	1156.00000	143.30000	1422.00000	966.89000	1.96000
.974	12.201	2123.00000	767.30000	1156.00000	144.40000	1422.00000	966.91000	1.96000
.973	14.165	2123.00000	766.60000	1158.00000	146.20000	1422.00000	965.44000	1.95000
GRADIENT		-.00000	-.13735	.24851	-.01946	-.04970	-.28635	.00093

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ARC 150-1-14(0A220) TPS+ADP

(RNL005) (12-JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 35/ 0 RN/L = 3.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
1.048	-2.420	2124.00000	815.10000	1059.00000	149.70000	1422.00000	1064.12000	1.97000
1.047	-.516	2124.00000	814.50000	1061.00000	151.50000	1422.00000	1062.80000	1.98000
1.045	1.681	2124.00000	813.30000	1063.00000	151.00000	1422.00000	1060.17000	1.99000
GRADIENT	.00000		-.44170	.97379	.30312	.00000	-.96924	.00487

ARC 150-1-14(0A220) TPS+ADP

(RNL006) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 31/ 0 RN/L = 3.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.699	-2.511	2125.00000	524.70000	1533.00000	90.30000	1474.00000	592.04000	1.91000
.700	-.405	2125.00000	525.80000	1531.00000	91.60000	1475.00000	593.47000	1.91000
.701	1.620	2125.00000	526.40000	1531.00000	92.90000	1474.00000	594.19000	1.92000
.699	3.696	2125.00000	524.20000	1534.00000	93.70000	1475.00000	591.32000	1.91000
.700	5.721	2125.00000	525.30000	1533.00000	94.20000	1475.00000	592.76000	1.91000
.699	7.776	2125.00000	524.20000	1534.00000	94.10000	1475.00000	591.32000	1.90000
.702	9.831	2125.00000	527.40000	1530.00000	94.00000	1475.00000	595.61000	1.90000
.698	11.978	2126.00000	523.10000	1536.00000	95.40000	1475.00000	589.89000	1.88000
.701	16.038	2125.00000	526.90000	1530.00000	94.70000	1476.00000	594.90000	1.85000
.696	20.128	2126.00000	522.10000	1538.00000	94.70000	1477.00000	588.47000	1.80000
GRADIENT	.00000		-.04313	.14384	.55703	.09611	-.06910	.00048

RUN NO. 37/ 0 RN/L = 3.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.802	-.385	2124.00000	625.70000	1391.00000	109.50000	1427.00000	732.80000	1.93000
.805	3.625	2124.00000	628.70000	1387.00000	108.60000	1427.00000	737.15000	1.93000
.802	7.908	2123.00000	625.70000	1390.00000	105.20000	1427.00000	732.81000	1.93000
.802	11.968	2125.00000	626.30000	1391.00000	105.00000	1427.00000	733.52000	1.90000
.800	15.997	2124.00000	624.20000	1393.00000	105.10000	1427.00000	730.62000	1.86000
GRADIENT	-.00001		.74822	-.99763	-.22447	.00000	1.08492	.00000

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ARC 150-1-14(0A220) TPS+ADP

(RNLO06) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSPAP = .010

RUN NO. 47/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.851	-2.440	2123.00000	670.40000	1322.00000	108.40000	1439.00000	800.73000	1.96000
.852	-.334	2123.00000	671.70000	1320.00000	108.20000	1439.00000	802.78000	1.97000
.851	1.671	2123.00000	670.00000	1323.00000	108.30000	1439.00000	800.05000	1.96000
.851	3.736	2123.00000	670.40000	1322.00000	107.80000	1439.00000	800.73000	1.96000
.851	5.862	2123.00000	670.00000	1323.00000	107.20000	1439.00000	800.05000	1.95000
.850	7.756	2123.00000	669.50000	1324.00000	106.90000	1439.00000	799.36000	1.94000
.851	9.902	2123.00000	670.40000	1322.00000	106.70000	1439.00000	800.73000	1.93000
.850	11.968	2123.00000	669.10000	1324.00000	106.80000	1439.00000	798.68000	1.92000
.850	16.129	2123.00000	669.10000	1324.00000	106.40000	1439.00000	798.68000	1.88000
.850	20.311	2124.00000	670.00000	1324.00000	111.90000	1439.00000	800.05000	1.80000
GRADIENT	.00000		-.08039	.14215	-.08299	-.00000	-.12914	-.00047

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(RNLO07) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSPAP = .000
PHI-N = .000

RUN NO. 54/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.398	-1.964	2130.00000	212.20000	1909.00000	75.60000	1426.00000	220.70000	-.13000
.400	.182	2130.00000	213.40000	1907.00000	75.10000	1426.00000	222.11000	-.13000
.401	2.227	2130.00000	214.10000	1907.00000	75.00000	1426.00000	222.81000	-.13000
.401	4.283	2130.00000	214.70000	1906.00000	72.00000	1426.00000	223.52000	-.13000
.402	6.328	2130.00000	215.40000	1905.00000	71.30000	1426.00000	224.22000	-.13000
.401	8.323	2130.00000	214.70000	1906.00000	71.60000	1426.00000	223.52000	-.13000
.401	10.348	2130.00000	214.70000	1906.00000	71.00000	1426.00000	223.52000	-.13000
.401	12.433	2129.00000	214.10000	1906.00000	71.20000	1426.00000	222.81000	-.13000
.401	16.635	2130.00000	214.70000	1906.00000	70.80000	1426.00000	223.52000	-.12000
GRADIENT	.00000		.39517	-.43474	-.52253	.04627	.44154	-.00000

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(RNL007) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = 700
 PHI-N = .000

RUN NO. 53/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.618	-1.934	2125.00000	439.30000	1642.00000	80.50000	1424.00000	482.91000	-.12000
.618	.172	2125.00000	438.70000	1643.00000	82.50000	1424.00000	482.19000	-.13000
.622	.2116	2125.00000	443.40000	1637.00000	83.70000	1425.00000	487.89000	-.13000
.619	4.242	2125.00000	439.90000	1642.00000	83.80000	1425.00000	483.61000	-.13000
.619	6.277	2125.00000	440.50000	1641.00000	84.00000	1425.00000	484.33000	-.13000
.620	8.373	2125.00000	441.60000	1640.00000	84.80000	1425.00000	485.76000	-.13000
.619	10.429	2125.00000	440.50000	1641.00000	85.10000	1424.00000	484.33000	-.13000
.620	12.454	2125.00000	441.60000	1640.00000	85.60000	1424.00000	485.76000	-.13000
.619	16.544	2125.00000	440.50000	1641.00000	85.60000	1425.00000	484.33000	-.12000
	GRADIENT	-.00001	.30562	-.27724	.54132	.19368	.36656	-.00147

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(RNL008) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .000
 PHI-N = -90.000

RUN NO. 56/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.401	-1.944	2130.00000	214.70000	1906.00000	83.30000	1428.00000	223.52000	-.13000
.401	.233	2129.00000	214.10000	1906.00000	79.60000	1428.00000	222.81000	-.13000
.400	2.177	2129.00000	213.40000	1907.00000	80.30000	1428.00000	222.11000	-.13000
.400	4.252	2129.00000	213.40000	1907.00000	79.10000	1428.00000	222.11000	-.13000
.401	6.277	2129.00000	214.70000	1905.00000	77.50000	1428.00000	223.52000	-.13000
.401	8.282	2128.00000	214.10000	1905.00000	78.90000	1428.00000	222.82000	-.13000
.402	10.378	2130.00000	215.40000	1905.00000	79.30000	1428.00000	224.22000	-.13000
.402	12.433	2129.00000	215.40000	1905.00000	77.60000	1429.00000	224.22000	-.13000
.401	16.524	2128.00000	214.10000	1905.00000	79.00000	1428.00000	222.82000	-.13000
.401	20.594	2129.00000	214.10000	1906.00000	78.10000	1428.00000	222.81000	-.12000
.401	24.685	2130.00000	214.70000	1906.00000	77.50000	1428.00000	223.52000	-.12000
	GRADIENT	-.14811	-.22395	.19299	-.58773	.00000	-.24025	.00000

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ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(RNL008) 12 JAN 76

PARAMETRIC DATA*

BETA = .000 TPGAP = .000
PHI-N = -90.000

RUN NO. 55/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PRCF	QC	BETA
.620	-1.934	2127.00000	441.10000	1642.00000	77.40000	1427.00000	485.04000	-.12000
.618	.111	2127.00000	439.30000	1644.00000	79.00000	1427.00000	482.90000	-.13000
.619	2.258	2126.00000	439.90000	1642.00000	80.70000	1427.00000	483.61000	-.13000
.618	4.273	2126.00000	439.30000	1643.00000	80.80000	1427.00000	482.90000	-.13000
.618	6.348	2125.00000	439.30000	1642.00000	87.60000	1427.00000	482.90000	-.13000
.618	8.404	2125.00000	439.30000	1642.00000	88.00000	1427.00000	482.90000	-.13000
.618	10.419	2125.00000	438.70000	1643.00000	87.40000	1427.00000	482.19000	-.13000
.619	12.363	2125.00000	439.90000	1642.00000	89.40000	1427.00000	483.61000	-.13000
.617	15.575	2126.00000	438.20000	1645.00000	90.20000	1427.00000	481.47000	-.13000
GRADIENT	-.19368		-.22959	.04472	.57441	.00000	-.27312	-.00144

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(RNL009) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000
PHI-N = 180.000

RUN NO. 57/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PRCF	QC	BETA
.402	-1.883	2126.00000	214.70000	1903.00000	72.50000	1435.00000	223.52000	-.13000
.400	.142	2126.00000	213.40000	1904.00000	73.10000	1436.00000	222.11000	-.12000
.400	2.227	2126.00000	213.40000	1904.00000	73.50000	1436.00000	222.11000	-.13000
.401	4.232	2126.00000	214.10000	1903.00000	74.10000	1436.00000	222.82000	-.13000
.400	6.237	2126.00000	213.40000	1904.00000	73.10000	1437.00000	222.11000	-.13000
.401	8.252	2127.00000	214.70000	1903.00000	72.80000	1437.00000	223.52000	-.13000
.400	10.287	2126.00000	213.40000	1904.00000	73.10000	1436.00000	222.11000	-.13000
.400	12.353	2126.00000	213.40000	1904.00000	73.30000	1438.00000	222.11000	-.13000
.401	16.463	2127.00000	214.70000	1903.00000	73.30000	1438.00000	223.52000	-.13000
GRADIENT	.00000		-.08837	.00049	.25435	.14672	-.10305	-.00050

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(RNL010) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000
 PHI-N = 180.000

RUN NO. 58/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.622	-1.954	2123.00000	443.30000	1635.00000	91.10000	1440.00000	487.90000	-.12000
.620	.152	2123.00000	441.00000	1637.00000	91.70000	1441.00000	485.05000	-.13000
.620	2.146	2123.00000	440.40000	1638.00000	91.70000	1441.00000	484.34000	-.13000
.620	4.212	2122.00000	440.40000	1637.00000	90.50000	1441.00000	484.35000	-.13000
.620	6.257	2123.00000	440.40000	1638.00000	93.20000	1441.00000	484.34000	-.13000
.620	8.323	2123.00000	441.00000	1638.00000	93.20000	1441.00000	485.05000	-.13000
.621	10.368	2124.00000	441.60000	1638.00000	93.20000	1441.00000	485.76000	-.13000
.620	12.383	2123.00000	440.40000	1639.00000	90.60000	1441.00000	484.34000	-.13000
.619	16.564	2123.00000	439.30000	1640.00000	91.00000	1442.00000	482.91000	-.12000
GRADIENT		-.14633	-.45535	.34256	-.08722	.14729	-.55627	-.00147

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(RNL011) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP * .010
 PHI-N = .000

RUN NO. 10/ 0 RN/L = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.299	-2.167	2120.00000	125.10000	1992.00000	62.60000	1436.00000	127.89000	-.13000
.299	-.061	2120.00000	124.40000	1993.00000	62.40000	1436.00000	127.19000	-.13000
.299	1.984	2120.00000	124.40000	1993.00000	64.40000	1436.00000	127.19000	-.13000
.297	3.979	2120.00000	123.10000	1995.00000	65.00000	1437.00000	125.79000	-.13000
.298	6.024	2120.00000	123.70000	1994.00000	65.00000	1437.00000	126.49000	-.13000
.299	8.049	2120.00000	125.10000	1992.00000	65.00000	1438.00000	127.89000	-.13000
.299	10.135	2121.00000	125.10000	1993.00000	65.10000	1438.00000	127.88000	-.13000
.299	12.120	2121.00000	124.40000	1994.00000	65.10000	1438.00000	127.19000	-.13000
.299	16.220	2120.00000	124.40000	1993.00000	64.60000	1438.00000	127.19000	-.12000
.299	20.230	2121.00000	124.40000	1994.00000	62.80000	1438.00000	127.19000	-.12000
.298	24.351	2120.00000	123.70000	1994.00000	63.10000	1438.00000	126.49000	-.12000
GRADIENT		-.00000	-.29214	.43807	.44794	.14514	-.30665	.00000

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNLO11) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSPAP = .010
 PHI-N = .000

RUN NO. 11/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.402	-2.126	2118.00000	214.70000	1895.00000	70.20000	1439.00000	223.53000	-.13000
.401	-.101	2118.00000	213.40000	1896.00000	70.10000	1439.00000	222.12000	-.13000
.401	1.934	2118.00000	213.40000	1896.00000	70.40000	1439.00000	222.12000	-.13000
.401	3.969	2118.00000	213.40000	1896.00000	70.30000	1439.00000	222.12000	-.13000
.400	5.974	2118.00000	212.80000	1897.00000	70.60000	1439.00000	221.41000	-.13000
.402	8.090	2119.00000	214.10000	1896.00000	70.50000	1439.00000	222.82000	-.13000
.401	10.105	2119.00000	213.40000	1897.00000	70.90000	1439.00000	222.11000	-.13000
.401	12.160	2119.00000	213.40000	1897.00000	71.00000	1439.00000	222.11000	-.13000
.400	16.251	2118.00000	212.80000	1897.00000	71.20000	1439.00000	221.41000	-.13000
.402	20.270	2119.00000	214.70000	1895.00000	71.00000	1439.00000	223.52000	-.12000
.402	24.391	2118.00000	214.10000	1895.00000	71.60000	1439.00000	222.82000	-.12000
GRADIENT		.00000	-.19173	.14748	.02955	.00000	-.20795	-.00000

RUN NO. 12/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.500	-2.116	2117.00000	312.10000	1785.00000	76.50000	1440.00000	332.04000	-.13000
.499	-.091	2118.00000	311.50000	1786.00000	77.20000	1441.00000	331.34000	-.13000
.500	1.934	2118.00000	312.70000	1785.00000	77.10000	1441.00000	332.73000	-.13000
.499	3.989	2118.00000	311.50000	1786.00000	77.20000	1441.00000	331.34000	-.13000
.500	5.994	2118.00000	312.70000	1785.00000	77.30000	1441.00000	332.73000	-.13000
.500	8.009	2118.00000	312.10000	1786.00000	77.30000	1441.00000	332.04000	-.13000
.500	10.105	2118.00000	312.70000	1786.00000	78.00000	1441.00000	332.73000	-.13000
.499	12.160	2118.00000	310.90000	1787.00000	78.20000	1441.00000	330.64000	-.13000
.499	16.281	2118.00000	311.50000	1787.00000	78.00000	1441.00000	331.34000	-.13000
.498	20.361	2118.00000	310.20000	1788.00000	77.90000	1441.00000	329.95000	-.12000
.498	24.482	2118.00000	310.90000	1788.00000	76.10000	1442.00000	330.64000	-.12000
GRADIENT		.14719	-.03002	.09862	.09818	.14719	-.03551	-.00000

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ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(RNC0110) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSPAP = .010
PHI-N = .000

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-2.157	2116.00000	440.30000	1632.00000	84.10000	1443.00000	484.36000	-.12000
.621	-.132	2115.00000	440.30000	1631.00000	85.00000	1443.00000	484.36000	-.13000
.622	1.924	2116.00000	442.00000	1630.00000	84.50000	1443.00000	486.50000	-.13000
.621	4.009	2116.00000	440.30000	1632.00000	84.70000	1443.00000	484.36000	-.13000
.621	6.024	2117.00000	440.90000	1632.00000	85.60000	1443.00000	485.08000	-.13000
.622	8.059	2117.00000	441.50000	1631.00000	86.20000	1443.00000	485.79000	-.13000
.621	10.145	2117.00000	440.30000	1632.00000	86.40000	1443.00000	484.36000	-.13000
.620	12.201	2116.00000	439.10000	1633.00000	96.50000	1443.00000	482.94000	-.13000
.620	16.362	2117.00000	439.10000	1634.00000	86.80000	1444.00000	482.94000	-.13000
.618	20.412	2118.00000	438.00000	1636.00000	86.90000	1444.00000	481.51000	-.12000
.617	24.543	2117.00000	436.30000	1637.00000	87.60000	1444.00000	479.37000	-.12000
	GRADIENT	.04937	.08148	-.04649	.06274	.00000	.10257	-.00145

RUN NO. 14/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.701	-2.167	2116.00000	523.90000	1525.00000	90.70000	1444.00000	591.37000	-.13000
.699	-.061	2116.00000	521.70000	1528.00000	91.30000	1444.00000	588.51000	-.13000
.699	1.863	2116.00000	522.30000	1527.00000	91.40000	1444.00000	589.22000	-.13000
.702	4.020	2115.00000	525.50000	1522.00000	91.80000	1444.00000	593.51000	-.13000
.697	6.116	2115.00000	520.10000	1529.00000	93.10000	1445.00000	586.37000	-.13000
.697	8.151	2116.00000	520.60000	1529.00000	93.40000	1445.00000	587.07000	-.13000
.698	10.186	2115.00000	520.60000	1528.00000	94.00000	1445.00000	587.08000	-.13000
.706	12.231	2116.00000	529.80000	1517.00000	94.50000	1445.00000	599.23000	-.13000
.698	16.392	2115.00000	521.20000	1528.00000	93.90000	1445.00000	587.80000	-.13000
.695	20.412	2116.00000	518.50000	1532.00000	93.70000	1446.00000	584.22000	-.12000
.697	24.614	2116.00000	520.60000	1529.00000	94.80000	1446.00000	587.07000	-.11000
	GRADIENT	-.14800	.26658	-.49283	.16659	-.00000	.35226	.00000

DATE 27 MAY 76

TABULATED SOURCE DATA - 0A220

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL011) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .010
PHI-N = .000

RUN NO. 16/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.900	-2.197	2115.00000	709.20000	1250.00000	127.10000	1450.00000	864.88000	-.13000
.900	-.071	2115.00000	708.80000	1250.00000	126.40000	1450.00000	864.21000	-.13000
.901	1.984	2114.00000	709.60000	1248.00000	126.00000	1450.00000	865.54000	-.14000
.899	4.070	2114.00000	708.00000	1251.00000	125.20000	1450.00000	862.84000	-.13000
.898	6.116	2115.00000	707.60000	1252.00000	124.00000	1450.00000	862.18000	-.12000
.898	8.211	2114.00000	707.20000	1252.00000	122.30000	1451.00000	861.49000	-.11000
.899	10.378	2115.00000	708.00000	1252.00000	123.00000	1451.00000	862.85000	-.11000
.896	12.383	2114.00000	705.50000	1255.00000	123.50000	1451.00000	858.75000	-.12000
.901	16.595	2115.00000	709.60000	1249.00000	122.80000	1451.00000	865.55000	-.14000
.903	20.837	2115.00000	711.70000	1246.00000	124.10000	1451.00000	868.93000	-.12000
.898	24.897	2115.00000	707.20000	1253.00000	124.10000	1451.00000	861.50000	-.13000
GRADIENT		-.19130	-.13452	.04817	-.29256	.00000	-.23010	-.00048

RUN NO. 15/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.980	-2.217	2113.00000	768.20000	1143.00000	136.40000	1447.00000	970.74000	-.14000
.979	-.162	2114.00000	767.50000	1145.00000	137.30000	1447.00000	969.25000	-.11000
.977	1.995	2113.00000	766.20000	1146.00000	136.90000	1448.00000	967.05000	-.12000
.976	4.101	2114.00000	765.60000	1148.00000	136.40000	1448.00000	965.58000	-.12000
.972	6.085	2114.00000	762.90000	1153.00000	135.90000	1448.00000	960.48000	-.13000
.972	8.333	2113.00000	762.80000	1153.00000	142.60000	1448.00000	960.49000	-.13000
.973	10.287	2113.00000	763.20000	1152.00000	141.30000	1448.00000	961.22000	-.13000
.971	12.444	2113.00000	762.00000	1154.00000	141.60000	1448.00000	959.04000	-.13000
.973	16.726	2114.00000	763.60000	1152.00000	140.80000	1448.00000	961.94000	-.14000
.965	20.787	2113.00000	757.80000	1162.00000	143.10000	1448.00000	951.03000	-.14000
.959	25.009	2113.00000	753.10000	1171.00000	141.40000	1448.00000	942.29000	-.12000
GRADIENT		.09337	-.43141	.75717	-.02015	.19014	-.83790	.00233

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL012) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPAGAP = .010
PHI-N = .000

RUN NO. 17/ 0 RN/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.302	-2.167	2123.00000	127.10000	1993.00000	84.30000	1452.00000	129.97000	-.13000
.302	-.091	2123.00000	127.10000	1993.00000	86.60000	1452.00000	129.98000	-.13000
.302	1.974	2123.00000	127.10000	1993.00000	84.80000	1452.00000	129.97000	-.13000
.303	3.959	2123.00000	127.70000	1993.00000	83.70000	1452.00000	130.67000	-.13000
.303	5.964	2123.00000	128.40000	1992.00000	80.80000	1453.00000	131.36000	-.13000
.304	8.019	2123.00000	129.10000	1991.00000	80.30000	1453.00000	132.06000	-.13000
.303	10.014	2123.00000	127.70000	1993.00000	79.30000	1453.00000	130.67000	-.13000
.302	12.059	2123.00000	127.10000	1993.00000	81.90000	1453.00000	129.98000	-.13000
.302	16.190	2123.00000	127.00000	1993.00000	82.50000	1453.00000	129.97000	-.12000
.301	20.179	2123.00000	126.40000	1993.00000	81.10000	1453.00000	129.28000	-.12000
.302	24.280	2123.00000	127.10000	1993.00000	80.00000	1453.00000	129.97000	-.12000
	GRADIENT	.00000	.08729	-.00000	-.17319	.00000	.10135	-.00000

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPAGAP = .010
PHI-N = .000

RUN NO. 18/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.303	-2.238	2123.00000	127.70000	1993.00000	54.90000	1447.00000	130.67000	-2.13000
.301	-.263	2123.00000	126.40000	1993.00000	56.20000	1447.00000	129.28000	-2.13000
.302	1.772	2123.00000	127.10000	1993.00000	56.50000	1447.00000	129.98000	-2.13000
.300	3.756	2123.00000	125.70000	1994.00000	56.60000	1447.00000	128.58000	-2.13000
.302	5.802	2123.00000	127.10000	1993.00000	57.50000	1447.00000	129.97000	-2.13000
.303	7.877	2123.00000	128.40000	1992.00000	57.90000	1447.00000	131.36000	-2.12000
.302	9.912	2123.00000	127.10000	1993.00000	58.00000	1448.00000	129.97000	-2.11000
.301	11.897	2123.00000	126.40000	1993.00000	58.40000	1448.00000	129.28000	-2.09000
.302	15.957	2123.00000	127.10000	1993.00000	58.50000	1447.00000	129.97000	-2.06000
.303	20.078	2123.00000	127.70000	1993.00000	58.40000	1447.00000	130.67000	-2.01000
.302	24.158	2123.00000	127.10000	1993.00000	58.70000	1448.00000	129.97000	-1.96000
	GRADIENT	.00000	-.26364	.14972	.26939	.00000	-.27709	.00000

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPSGAP = .010
PHI-N = .000

RUN NO. 19/ 0 RN/L = 2.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTI	PREF	QC	BETA
.400	-2.268	2121.00000	212.80000	1900.00000	63.00000	1447.00000	221.41000	-2.14000
.401	-.213	2121.00000	214.10000	1898.00000	61.50000	1447.00000	222.82000	-2.14000
.401	1.853	2122.00000	214.10000	1899.00000	61.40000	1447.00000	222.82000	-2.14000
.401	3.898	2122.00000	214.10000	1899.00000	62.30000	1447.00000	222.82000	-2.14000
.400	5.923	2120.00000	212.80000	1899.00000	63.60000	1446.00000	221.41000	-2.13000
.401	7.897	2121.00000	213.40000	1899.00000	63.90000	1447.00000	222.11000	-2.13000
.400	9.912	2121.00000	212.80000	1900.00000	63.80000	1447.00000	221.41000	-2.11000
.401	11.958	2121.00000	213.40000	1899.00000	64.30000	1447.00000	222.11000	-2.10000
.400	16.048	2121.00000	212.80000	1900.00000	64.70000	1447.00000	221.41000	-2.07000
.399	20.098	2121.00000	212.10000	1900.00000	65.10000	1447.00000	220.71000	-2.02000
.397	24.189	2120.00000	210.20000	1901.00000	68.50000	1447.00000	218.59000	-1.96000
GRADIENT		.19466	.18972	-.09721	-.10724	.00000	.20577	.00000

RUN NO. 20/ 0 RN/L = 3.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.501	-2.258	2118.00000	313.30000	1785.00000	71.50000	1447.00000	333.43000	-2.15000
.501	-.263	2120.00000	313.30000	1786.00000	72.50000	1447.00000	333.43000	-2.15000
.501	1.812	2118.00000	313.90000	1784.00000	72.70000	1448.00000	334.13000	-2.15000
.500	3.837	2119.00000	312.70000	1786.00000	73.00000	1448.00000	332.74000	-2.15000
.500	5.883	2119.00000	312.70000	1786.00000	74.00000	1447.00000	332.74000	-2.14000
.500	7.837	2119.00000	312.70000	1786.00000	74.10000	1447.00000	332.74000	-2.14000
.505	9.892	2119.00000	318.20000	1780.00000	74.20000	1448.00000	339.02000	-2.13000
.505	12.028	2119.00000	318.20000	1780.00000	74.70000	1448.00000	339.02000	-2.11000
.505	16.149	2119.00000	318.20000	1780.00000	74.60000	1448.00000	339.02000	-2.08000
.504	20.149	2118.00000	317.00000	1781.00000	74.50000	1448.00000	337.62000	-2.03000
.503	24.249	2118.00000	315.70000	1782.00000	74.50000	1447.00000	336.23000	-1.97000
GRADIENT		.04652	-.05861	.04726	.23027	.19707	-.06690	-.00000

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ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPGAP = .010
 PHI-N = .000

RUN NO. 21/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-2.349	2125.00000	442.20000	1639.00000	79.80000	1462.00000	486.46000	-2.16000
.619	-.314	2125.00000	440.50000	1641.00000	81.00000	1462.00000	484.33000	-2.16000
.620	1.802	2125.00000	441.00000	1640.00000	83.10000	1462.00000	485.05000	-2.16000
.619	3.716	2125.00000	440.50000	1641.00000	84.00000	1462.00000	484.33000	-2.16000
.619	5.802	2125.00000	440.50000	1640.00000	85.00000	1463.00000	484.30000	-2.15000
.622	7.837	2125.00000	443.40000	1637.00000	86.10000	1463.00000	487.89000	-2.15000
.620	9.943	2125.00000	441.60000	1640.00000	88.10000	1462.00000	485.76000	-2.14000
.622	12.099	2125.00000	443.40000	1637.00000	86.30000	1463.00000	487.89000	-2.13000
.620	16.038	2126.00000	441.60000	1640.00000	85.90000	1462.00000	485.76000	-2.10000
.619	20.220	2125.00000	440.50000	1641.00000	86.00000	1462.00000	484.33000	-2.05000
.619	24.361	2125.00000	440.50000	1641.00000	86.80000	1463.00000	484.33000	-1.98000
	GRADIENT	-.00000	-.22596	.24412	.72537	.00000	-.27819	-.00000

RUN NO. 22/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.698	-2.359	2124.00000	523.10000	1534.00000	91.00000	1463.00000	589.90000	-2.17000
.698	-.213	2125.00000	523.60000	1534.00000	91.00000	1463.00000	590.61000	-2.17000
.700	1.752	2125.00000	525.30000	1532.00000	92.20000	1463.00000	592.76000	-2.17000
.698	3.898	2125.00000	523.10000	1535.00000	93.30000	1463.00000	589.89000	-2.17000
.702	5.812	2125.00000	527.40000	1529.00000	93.70000	1463.00000	595.61000	-2.16000
.701	7.958	2125.00000	526.30000	1530.00000	90.60000	1463.00000	594.19000	-2.16000
.699	9.933	2125.00000	524.20000	1534.00000	92.40000	1463.00000	591.32000	-2.16000
.699	12.059	2125.00000	524.70000	1533.00000	92.00000	1463.00000	592.04000	-2.14000
.699	16.170	2125.00000	524.70000	1533.00000	92.40000	1463.00000	592.04000	-2.11000
.702	20.230	2125.00000	527.90000	1528.00000	91.90000	1463.00000	596.33000	-2.04000
.701	24.432	2125.00000	526.90000	1530.00000	93.00000	1463.00000	594.91000	-1.98000
	GRADIENT	.14548	.07764	.05414	.38946	.00000	.09673	-.00000

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(RNL014) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSPAP = .010
PHI-N = .000

RUN NO. 23/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.303	-2.389	2131.00000	128.40000	2000.00000	57.80000	1462.00000	131.37000	1.89000
.302	-.314	2130.00000	127.70000	2000.00000	58.20000	1462.00000	130.68000	1.89000
.301	1.610	2130.00000	127.10000	2000.00000	58.30000	1462.00000	129.98000	1.88000
.301	3.716	2130.00000	127.10000	2000.00000	58.20000	1462.00000	129.98000	1.88000
.302	5.792	2131.00000	127.70000	2000.00000	58.70000	1463.00000	130.67000	1.87000
.302	7.695	2131.00000	127.70000	2000.00000	58.80000	1463.00000	130.67000	1.87000
.303	9.811	2131.00000	128.40000	2000.00000	58.80000	1463.00000	131.37000	1.86000
.303	11.877	2131.00000	128.40000	2000.00000	58.60000	1463.00000	131.37000	1.85000
.303	15.916	2131.00000	128.40000	2000.00000	58.90000	1463.00000	131.37000	1.81000
.302	19.967	2131.00000	127.70000	2000.00000	57.00000	1463.00000	130.67000	1.77000
.302	24.057	2131.00000	127.70000	2000.00000	57.10000	1463.00000	130.67000	1.72000
GRADIENT	-.14863		-.22160	.00000	.05411	.00000	-.23971	-.00196

RUN NO. 24/ 0 RN/L = 2.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.400	-2.460	2130.00000	213.40000	1907.00000	60.00000	1464.00000	222.11000	1.89000
.401	-.273	2130.00000	214.70000	1906.00000	60.90000	1464.00000	223.52000	1.89000
.401	1.681	2130.00000	214.10000	1907.00000	61.40000	1464.00000	222.81000	1.89000
.402	3.716	2130.00000	215.40000	1906.00000	61.40000	1464.00000	224.22000	1.88000
.401	5.771	2130.00000	214.10000	1907.00000	61.30000	1464.00000	222.81000	1.89000
.402	7.786	2130.00000	215.40000	1906.00000	61.30000	1464.00000	224.22000	1.87000
.401	9.842	2130.00000	214.70000	1906.00000	61.80000	1464.00000	224.22000	1.86000
.401	11.836	2129.00000	214.70000	1905.00000	59.60000	1464.00000	223.52000	1.85000
.402	15.927	2130.00000	215.40000	1906.00000	58.90000	1464.00000	223.52000	1.82000
.401	19.997	2130.00000	214.10000	1907.00000	59.60000	1464.00000	224.22000	1.78000
.400	24.016	2130.00000	213.40000	1907.00000	60.00000	1464.00000	222.11000	1.73000
GRADIENT	.00000		.26634	-.10059	.23090	.00000	.27741	-.00145

RUN NO. 25/ 0 RN/L = 3.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.502	-2.481	2128.00000	315.90000	1792.00000	64.50000	1464.00000	336.23000	1.90000
.501	-.294	2127.00000	315.20000	1791.00000	65.60000	1464.00000	335.53000	1.90000
.502	1.721	2127.00000	316.50000	1791.00000	65.90000	1464.00000	336.93000	1.89000
.502	3.655	2128.00000	316.50000	1791.00000	65.40000	1464.00000	336.93000	1.89000
.501	5.761	2127.00000	314.60000	1792.00000	66.90000	1464.00000	334.84000	1.89000
.501	7.786	2127.00000	315.20000	1792.00000	67.20000	1464.00000	335.54000	1.88000
.501	9.852	2127.00000	314.60000	1793.00000	67.20000	1464.00000	334.83000	1.87000
.501	11.927	2127.00000	314.60000	1793.00000	67.20000	1464.00000	334.83000	1.86000
.501	15.876	2127.00000	314.00000	1793.00000	68.30000	1464.00000	334.14000	1.83000
.499	24.118	2127.00000	312.80000	1794.00000	67.80000	1464.00000	332.75000	1.73000
GRADIENT	-.00606		.14883	-.15003	.29561	.00000	.16836	-.00195

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(RN/L014) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010
 PHI-N = .000

RUN NO. 26/ 0 RN/L = 3.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.621	-2.440	2126.00000	442.20000	1640.00000	73.10000	1464.00000	486.46000	1.92000
.620	- .334	2125.00000	441.00000	1640.00000	73.70000	1464.00000	485.05000	1.91000
.621	1.721	2125.00000	442.20000	1639.00000	74.40000	1464.00000	486.46000	1.90000
.621	3.756	2125.00000	442.20000	1639.00000	74.20000	1464.00000	486.46000	1.90000
.620	5.761	2125.00000	441.60000	1640.00000	76.50000	1464.00000	485.76000	1.90000
.620	7.776	2125.00000	441.60000	1640.00000	76.00000	1464.00000	485.76000	1.89000
.619	9.892	2125.00000	439.90000	1642.00000	73.40000	1464.00000	483.61000	1.88000
.620	11.846	2126.00000	441.10000	1641.00000	75.90000	1464.00000	485.04000	1.87000
.619	16.018	2125.00000	440.50000	1641.00000	76.90000	1464.00000	484.33000	1.84000
.621	20.088	2125.00000	442.80000	1638.00000	77.60000	1464.00000	487.18000	1.79000
.622	24.179	2126.00000	443.40000	1638.00000	77.70000	1464.00000	487.89000	1.74000
GRADIENT		-.14621	.05667	-.19360	.19433	.00000	.06682	-.00340

RUN NO. 27/ 0 RN/L = 3.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PT	Q	P	TTF	PREF	QC	BETA
.702	-2.470	2125.00000	527.90000	1528.00000	80.70000	1464.00000	596.33000	1.91000
.699	- .314	2125.00000	524.70000	1533.00000	81.30000	1465.00000	592.04000	1.91000
.699	1.640	2125.00000	524.20000	1534.00000	80.90000	1465.00000	591.32000	1.91000
.699	3.655	2125.00000	524.20000	1533.00000	81.20000	1465.00000	591.33000	1.91000
.701	5.771	2125.00000	526.40000	1531.00000	83.20000	1465.00000	594.19000	1.91000
.701	7.776	2125.00000	526.30000	1530.00000	83.10000	1465.00000	594.19000	1.90000
.700	9.912	2125.00000	525.30000	1533.00000	83.00000	1465.00000	592.76000	1.89000
.698	11.917	2125.00000	523.60000	1534.00000	82.60000	1465.00000	590.61000	1.88000
.702	16.058	2125.00000	527.40000	1530.00000	83.00000	1465.00000	595.61000	1.85000
.703	20.118	2125.00000	528.50000	1528.00000	83.50000	1465.00000	597.04000	1.80000
.701	24.330	2125.00000	526.90000	1530.00000	84.10000	1465.00000	594.71000	1.75000
GRADIENT		.00000	-.57721	.79821	.05568	.14985	-.78206	.00000

ARC 150-1-14(0A220) TPS(MOD)+ADP

(ANL002) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000

RUN NO. 52/ 0		RN/L = 3.48		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2'
.621	-1.914	-.21760	.05800	.82950	.78400	.96100	1.01350	.91250	.05010	-.55890	.95040
.620	.101	-.13230	.14370	.89640	.78370	.97630	1.03330	.98580	.12390	-.39780	.87980
.619	2.248	-.06560	.17400	.94620	.80590	.98770	1.04130	1.04030	.15420	-.25990	.78190
.617	4.242	-.02500	.18380	.97940	.82730	.99530	1.04450	1.07610	.16710	-.16910	.69300
.622	6.176	-.00280	.19620	.99780	.83410	.99950	1.04870	1.09790	.18010	-.04840	.57850
.620	8.333	.00360	.21930	1.00300	.82260	1.00070	1.05340	1.10310	.19840	.11560	.45390
.619	10.449	.00290	.22160	1.00240	.82050	1.00050	1.05360	1.10210	.20000	.23500	.31330
.620	12.484	-.01400	.21550	.98870	.81340	.99740	1.05190	1.08740	.19280	.38430	.19830
.621	16.544	-.09760	.18880	.92420	.77740	.96250	1.04360	1.01670	.16150	.60870	-.08090
	GRADIENT	.03121	.01977	.02423	.00739	.00555	.00490	.02646	.01849	.06344	-.04222

RUN NO. 51/ 0		RN/L = 4.05		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.901	-1.974	-.15690	.15140	.88010	.76440	.95090	1.08010	1.07340	.14110	-.43380	1.06580
.898	.192	-.09770	.23710	.92690	.74930	.97020	1.12210	1.12910	.21640	-.25150	.99100
.901	2.207	-.05120	.28210	.96170	.75010	.98430	1.14660	1.17300	.25810	-.09590	.91890
.902	4.374	-.01920	.29330	.98540	.76190	.99400	1.15550	1.20270	.27280	.03760	.82150
.902	6.389	.00020	.31280	1.00020	.76190	1.00010	1.16560	1.22060	.29080	.14400	.72380
.899	8.454	.00240	.31640	1.00190	.76110	1.00070	1.16610	1.22110	.29350	.28300	.62170
.901	10.540	.00040	.32330	1.00040	.75600	1.00010	1.16950	1.22040	.29820	.40620	.50560
.903	12.666	-.01230	.33380	.99100	.74290	.99630	1.17260	1.20950	.30270	.53140	.36730
.901	16.828	-.08920	.32860	.93720	.70540	.97430	1.16040	1.14290	.28260	.74960	.13050
	GRADIENT	.02182	.02235	.01665	-.00032	.00681	.01190	.02050	.02074	.07453	-.03824

PARAMETRIC DATA

BETA .000 TPGAP = .010

RUN NO. 50/ 0 RN/L = 3.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.621	-1.944	-.21300	.08170	.83550	.77240	.96230	1.01880	.91930	.06940	-.58650	.95160
.618	.071	-.12590	.13600	.90030	.79250	.97730	1.03170	.98970	.11850	-.40620	.87710
.619	2.086	-.06940	.18440	.94470	.79760	.98740	1.04340	1.03870	.16170	-.29090	.78610
.621	4.222	-.02890	.19450	.97650	.81750	.99460	1.04720	1.07430	.17490	-.15680	.68400
.623	6.217	-.00520	.20180	.99570	.82850	.99900	1.05010	1.09620	.18410	-.03260	.59270
.623	8.313	.00040	.23340	1.00040	.81110	1.00010	1.05670	1.10130	.20840	.11680	.44510
.621	10.388	-.00140	.22630	.98990	.81460	.99970	1.05480	1.09900	.20280	.24770	.32960
.622	12.433	-.01260	.22180	.98990	.81070	.99770	1.05350	1.08930	.19780	.36540	.18300
.622	16.595	-.10820	.19810	.91720	.76550	.98100	1.04520	1.00940	.16690	.60110	-.07920
	GRADIENT	.02961	.01878	.02274	.00685	.00520	.00471	.02500	.01747	.06841	-.04360

RUN NO. 49/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.901	-1.944	-.16750	.15690	.87350	.75510	.94820	1.08200	1.06530	.14450	-.45060	1.06650
.899	.142	-.09630	.23870	.92790	.74910	.97060	1.12320	1.13080	.21790	-.27270	.99370
.898	2.278	-.04540	.27180	.96560	.75930	.98600	1.14190	1.17630	.25140	-.10470	.90460
.901	4.313	-.01790	.28580	.98640	.76710	.99440	1.15190	1.20300	.26740	.01530	.81940
.900	6.338	-.00110	.30340	.99930	.76670	.99970	1.16080	1.21840	.28360	.14850	.71460
.902	8.414	.00370	.31710	1.00290	.76140	1.00110	1.16760	1.22360	.29460	.28510	.60610
.899	10.469	-.00040	.32170	.99970	.75640	.99990	1.16790	1.21860	.29660	.40060	.49790
	GRADIENT	.02394	.02011	.01802	.00221	.00737	.01094	.02195	.01926	.07493	-.03971

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ARC 150-1-14(OA220) TPS+ADP

(ANL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSPAP = .010

RUN NO. 28/ 0		RN/L = 2.61		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.396	-2.430	-.24050	.04700	.81330	.77680	.98090	1.00420	.84560	.03800	-.61490	.95220
.399	-.294	-.13630	.09810	.88960	.81020	.78850	1.00920	.93560	.08270	-.40300	.88710
.397	1.701	-.06440	.11080	.94530	.85090	.99440	1.01080	.98310	.09810	-.32140	.82350
.397	3.736	-.01830	.11940	.98400	.87900	.99830	1.01210	1.02340	.10920	-.20010	.71920
.399	5.711	.00070	.12560	1.00070	.88910	1.00010	1.01290	1.04110	.11610	-.09140	.59930
.399	7.756	.00000	.14840	1.00010	.87090	1.00000	1.01500	1.04050	.13450	.02860	.48040
.400	9.730	.00000	.14190	1.00010	.87580	1.00000	1.01450	1.04070	.12930	.17260	.38580
.401	12.099	-.02780	.13020	.97600	.86360	.99750	1.01320	1.01590	.11710	.31750	.21350
.401	15.937	-.12190	.10450	.90070	.81550	.98960	1.01000	.93750	.08870	.52180	.01970
.402	19.946	-.31060	-.06190	.75130	.80090	.97320	.99420	.78210	-.05160	.73360	-.24780
	GRADIENT	.03610	.01128	.02775	.01694	.00284	.00124	.02888	.01122	.06487	-.03718

RUN NO. 40/ 0		RN/L = 3.38		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.621	-2.420	-.19070	.02240	.84290	.82440	.96400	1.00550	.92720	.02030	-.60580	1.00900
.621	-.435	-.11460	.09500	.90530	.82670	.97830	1.02330	.99590	.08640	-.46080	.94260
.621	1.580	-.05940	.10770	.94910	.85690	.98830	1.02740	1.04430	.10150	-.28860	.86430
.622	3.685	-.01730	.12910	.98500	.87230	.99650	1.03360	1.08410	.12400	-.16320	.77430
.622	5.700	-.00130	.14350	.99890	.87360	.99970	1.03730	1.09920	.13790	-.04470	.66030
.620	7.766	.00310	.16250	1.00270	.86260	1.00060	1.04150	1.10290	.15410	.07080	.57090
.622	9.902	.00370	.15500	1.00330	.86860	1.00070	1.04010	1.10410	.14820	.21640	.41470
.619	11.765	-.02170	.15280	.98160	.85150	.99580	1.03840	1.07930	.14300	.33780	.31780
.620	15.927	-.10210	.13390	.91740	.80910	.98110	1.03210	1.00910	.11920	.56770	.06600
.620	19.997	-.28890	.00870	.77740	.77070	.94920	1.00200	.85490	.00740	.77840	-.19850
	GRADIENT	.02825	.01630	.02308	.00856	.00528	.00433	.02549	.01599	.07373	-.03851

RUN NO. 41/ 0		RN/L = 3.66		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.699	-2.410	-.18860	.02460	.84460	.82430	.95670	1.00780	.95290	.02290	-.61990	1.02210
.700	-.344	-.11050	.09630	.90850	.82870	.97440	1.03090	1.02540	.09010	-.42260	.96410
.700	1.691	-.05300	.13240	.95540	.84370	.98750	1.04330	1.07830	.12610	-.26520	.87980
.701	3.777	-.01920	.14470	.98360	.85920	.99540	1.04820	1.11030	.14040	-.13640	.78840
.701	5.711	-.00310	.15770	.99740	.86160	.99930	1.05280	1.12610	.15340	-.02340	.69590
.701	7.746	.00280	.16960	1.00250	.85710	1.00070	1.05640	1.13170	.16410	.11990	.59790
.700	9.760	.00200	.17220	1.00180	.85460	1.00050	1.05690	1.13040	.16610	.23210	.48380
.701	11.826	-.01070	.17070	.99100	.84650	.99750	1.05600	1.11870	-.16310	.37430	.34060
.699	15.987	-.10350	.15470	.91780	.79480	.97710	1.04750	1.03550	.13880	.60790	.08670
.699	20.007	-.25850	.01160	.79650	.78740	.94330	1.00350	.89870	.01030	.80290	-.15600
	GRADIENT	.02746	.01924	.02252	.00581	.00627	.00648	.02549	.01885	.07806	-.03814

ARC 150-1-14(0A220) TPS+ADP

(ANL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TSPGAP = .010

RUN NO. 42/ 0		RN/L = 3.85		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.799	-2.349	-.15200	.04260	.87280	.83710	.95630	1.01870	1.02130	.04170	-.58740	1.06160
.800	-.456	-.10250	.12970	.91690	.81160	.97140	1.05520	1.07320	.12320	-.41790	1.00210
.797	1.600	-.04970	.16150	.95900	.82570	.98600	1.06920	1.12110	.15580	-.21760	.93150
.802	3.665	-.01790	.17020	.98500	.84170	.99480	1.07570	1.15390	.16780	-.09830	.84800
.801	5.711	-.00110	.18420	.99910	.84370	.99970	1.08180	1.16990	.18200	.02650	.74740
.800	7.766	.00320	.19520	1.0280	.83900	1.00090	1.08590	1.17370	.19170	.15510	.63000
.799	9.831	.00000	.19590	1.00010	.83670	1.00000	1.08570	1.17020	.19170	.28980	.50790
.800	11.917	-.01080	.19700	.99120	.82800	.99590	1.08560	1.16020	.19100	.40580	.40830
.801	15.997	-.09470	.19780	.92680	.77370	.97470	1.08050	1.08530	.17920	.63560	.16240
.804	20.159	-.24440	.05050	.81130	.77230	.93460	1.02060	.95080	.04570	.84860	-.09660
	GRADIENT	.02261	.02044	.01880	.00149	.00646	.00913	.02213	.02028	.08287	-.03543

RUN NO. 48/ 0		RN/L = 3.93		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.845	-2.521	-.15070	.04990	.87450	.83300	.95310	1.02480	1.04210	.04950	-.56700	1.07530
.848	-.415	-.09490	.15570	.92420	.79970	.97160	1.07470	1.10230	.14850	-.36440	1.01200
.849	1.762	-.04520	.18290	.96320	.81430	.98620	1.08960	1.14930	.17770	-.17550	.94220
.848	3.777	-.01510	.19670	.98760	.82530	.99530	1.09760	1.17830	.19370	-.04340	.84810
.849	5.731	.00020	.20650	1.00030	.82900	1.00010	1.10300	1.19360	.20430	.08730	.76390
.850	7.837	.00240	.22220	1.00200	.81990	1.00070	1.10990	1.19610	.21750	.21710	.65790
.849	9.842	.00170	.22010	1.00150	.82090	1.00050	1.10870	1.19510	.21560	.33560	.55000
.851	12.028	-.01230	.22420	.99020	.80880	.99630	1.10970	1.18260	.21660	.46130	.42940
.849	16.008	-.08740	.21760	.93310	.76540	.97480	1.10040	1.11350	.19900	.68170	.18790
.848	20.321	-.24220	.08230	.81720	.75510	.93140	1.03730	.97500	.07410	.88390	-.06260
	GRADIENT	.02169	.02225	.01798	-.00042	.00671	.01110	.02165	.02197	.08359	-.03561

RUN NO. 46/ 0		RN/L = 4.00		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.902	-2.420	-.14140	.07950	.88430	.81920	.95750	1.04520	1.07900	.07940	-.48840	1.10830
.901	-.344	-.08510	.16530	.93200	.79980	.97210	1.09170	1.13690	.16120	-.32900	1.05290
.901	1.681	-.04300	.20640	.96570	.80050	.98590	1.11450	1.17790	.20150	-.14590	.97860
.900	3.756	-.01610	.21680	.98700	.81110	.99460	1.12150	1.20330	.21440	-.00970	.89290
.899	5.873	.00020	.23770	1.00020	.80810	1.00010	1.13250	1.21920	.23420	.11590	.79900
.900	7.908	.00200	.25030	1.00170	.80120	1.00070	1.13850	1.22130	.24450	.24580	.71330
.900	10.054	.00100	.25150	1.00090	.79970	1.00030	1.13910	1.22040	.24530	.36510	.60080
.899	12.120	-.01040	.25770	.99190	.78870	.99670	1.14020	1.20890	.24770	.48230	.47110
.900	16.170	-.08530	.25120	.93620	.74830	.97390	1.12990	1.14150	.22910	.70390	.23160
.900	20.412	-.23070	.11200	.82830	.74490	.92970	1.05770	1.01000	.10170	.90800	-.00640
	GRADIENT	.02034	.02204	.01663	-.00115	.00582	.01226	.02014	.02167	.07876	-.03505

ARC 150-1-14(OA220) TPS+ADP

(ANL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010

RUN NO. 39/ 0		RN/L = 3.93		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.950	-2.460	-.13210	.13650	.89590	.78830	.95410	1.08470	1.11660	.13420	-.39330	1.13650
.949	-.415	-.08730	.22010	.93330	.76490	.97060	1.13220	1.16270	.20980	-.25360	1.07280
.954	1.671	-.04290	.26000	.96720	.76760	.98540	1.15870	1.20770	.24920	-.07060	1.01580
.953	3.706	-.01350	.26030	.98950	.78510	.99530	1.16200	1.23480	.25500	.06600	.93140
.950	5.862	.00100	.27520	1.00080	.78480	1.00030	1.17000	1.24740	.26920	.18640	.82820
.949	7.928	.00250	.28930	1.00210	.77720	1.00090	1.17670	1.24860	.28020	.30560	.73390
.948	9.993	.00180	.28690	1.00150	.77820	1.00060	1.17500	1.24730	.27800	.42460	.62140
.950	12.059	-.01330	.28900	.98990	.76790	.99550	1.17470	1.23280	.27660	.54220	.51720
.945	16.271	-.09600	.28570	.93060	.72380	.96960	1.16060	1.15720	.25710	.75480	.27960
.938	20.503	-.24590	.14610	.82340	.71850	.92130	1.08010	1.02060	.13010	.94580	.03050
	GRADIENT	.01945	.01999	.01529	-.00034	.00672	.01256	.01942	.01953	.07585	-.03265

RUN NO. 43/ 0		RN/L = 3.94		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.982	-2.430	-.12560	.15510	.90200	.78090	.95490	1.10340	1.14080	.15320	-.34310	1.15500
.979	-.435	-.07730	.24880	.94180	.75410	.97330	1.15900	1.18950	.23700	-.21060	1.09780
.976	1.741	-.03860	.27640	.97070	.76050	.98660	1.17700	1.22460	.26520	-.03320	1.02170
.978	3.817	-.01210	.28590	.99070	.77050	.99570	1.19630	1.25090	.27810	.10390	.93650
.980	5.832	.00170	.30180	1.00140	.76920	1.00060	1.19740	1.26570	.29340	.21690	.85720
.979	7.948	.00270	.31430	1.00210	.76250	1.00090	1.20300	1.26580	.30270	.33770	.75870
.979	9.892	.00080	.31530	1.00070	.76080	1.00030	1.20310	1.26380	.30290	.44770	.66440
.979	12.130	-.01300	.31890	.99030	.75090	.99550	1.20290	1.25080	.30240	.55800	.54320
.978	16.342	-.08700	.30760	.93770	.71710	.97140	1.18640	1.18380	.27850	.78930	.30410
.977	20.533	-.22330	.17850	.84080	.71340	.92710	1.10740	1.06100	.16070	.96250	.08630
	GRADIENT	.01810	.01996	.01408	-.00113	.00648	.01268	.01744	.01916	.07263	-.03500

RUN NO. 44/ 0		RN/L = 3.84		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
1.047	-2.491	-.12680	.22680	.90660	.73900	.95310	1.16770	1.18260	.21870	-.24340	1.19340
1.046	-.466	-.07530	.32120	.94640	.71630	.97310	1.22980	1.23410	.30000	-.11270	1.13500
1.044	1.752	-.03510	.35840	.97510	.71780	.98740	1.25550	1.27000	.33510	.05090	1.05650
1.042	3.827	-.01050	.35800	.99260	.73090	.99620	1.25860	1.29160	.34050	.17810	.97720
1.040	5.802	.00090	.37310	1.00090	.72890	1.00030	1.26790	1.30160	.35370	.28680	.90030
1.038	7.867	.00130	.37750	1.00120	.72680	1.00050	1.26860	1.30030	.35630	.40040	.81220
1.034	9.963	-.00020	.37520	1.00010	.72720	.99990	1.26510	1.29690	.35380	.50330	.70050
1.033	12.028	-.01080	.38260	.99240	.71780	.99620	1.26570	1.28590	.35580	.60930	.59360
1.026	16.261	-.09430	.35630	.93510	.68940	.96830	1.23360	1.20750	.31720	.81310	.36350
1.017	20.392	-.20880	.22440	.85440	.69780	.92980	1.14570	1.09860	.20130	.99410	.12770
	GRADIENT	.01836	.02027	.01353	-.00105	.00677	.01405	.01712	.01886	.06749	-.03436

DATE 27 MAY 76

TABULATED SOURCE DATA - OA220

ARC 150-1-14(OA220) TPS+ADP

(ANL004) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 45/ 0 RN/L = 3.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
1.094	-2.450	-.12190	.28890	.91520	.71010	.95440	1.22910	1.22060	.27360	-.16940	1.20570
1.092	-.446	-.07940	.39900	.94790	.67760	.97170	1.30050	1.26290	.36020	-.03550	1.14420
1.093	1.772	-.04370	.43900	.97220	.67560	.98440	1.33100	1.29640	.39550	.10620	1.08100
1.092	3.959	-.01190	.43060	.99340	.69440	.99570	1.33230	1.32360	.39840	.23200	.99770
1.089	5.893	-.00220	.44900	1.00000	.69010	.99920	1.34260	1.33090	.41240	.34020	.91180
1.087	7.867	-.00070	.45010	1.00100	.69030	.99970	1.34180	1.33080	.41310	.45370	.84150
1.085	10.024	-.00150	.45180	1.00040	.68910	.99950	1.34110	1.32900	.41360	.54350	.74330
GRADIENT		.01702	.02143	.01204	-.00218	.00035	.01571	.01593	.01892	.06273	-.03206

ARC 150-1-14(OA220) TPS+ADP

(ANL005) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 29/ 0 RN/L = 3.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.619	-2.460	-.18130	.02950	.85030	.82600	.96590	1.00720	.93500	.02680	-.63670	.99160
.620	-.375	-.11110	.09230	.90770	.83100	.97890	1.02270	.99830	.08440	-.42230	.92270
.618	1.661	-.05610	.10820	.95190	.85890	.98910	1.02730	1.01620	.10220	-.28390	.84920
.618	3.675	-.01540	.12600	.98660	.87620	.99690	1.03240	1.08440	.12130	-.17240	.76340
.620	5.731	.00000	.12820	1.00010	.88640	1.00000	1.03360	1.09990	.12500	-.05830	.66400
.618	7.796	-.00070	.14780	.99950	.87080	.99990	1.03780	1.09850	.14140	.06630	.53820
.622	9.852	-.00030	.15150	.99980	.86830	.99990	1.03920	1.10020	.14470	.21100	.43780
.621	11.917	-.01260	.12820	.99900	.87670	.99750	1.03340	1.08820	.12360	.34100	.31390
.620	16.008	-.10540	.07620	.51090	.84640	.97960	1.01910	1.00180	.07090	.57680	.04600
.618	20.098	-.26300	-.06580	.78030	.83530	.95010	.98380	.85780	-.06050	.78710	-.22700
GRADIENT		.02706	.01498	.02218	.00872	-.00503	.00393	.02429	.01477	.07499	-.03707

ARC 150-1-14(0A220) TPS+ADP

(ANL005) (12 JAN 76

PARAMETRIC DATA

BETA = 2.000 TPAGAP = .010

RUN NO. 30/ 0 RN/L = 3.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.703	-2.470	-.16470	-.00400	.85820	.86160	.96010	.99870	.90960	-.00390	-.63920	1.01970
.704	-.385	-.10160	.09020	.91480	.83910	.97600	1.02970	1.03380	.08550	-.41170	.94600
.703	1.671	-.04570	.10120	.96020	.87200	.98880	1.03450	1.08480	.09970	-.24730	.88840
.704	3.696	-.01620	.10470	.98570	.89220	.99590	1.03660	1.11370	.10550	-.12380	.78870
.703	5.792	.00160	.12920	1.00150	.88690	1.00040	1.04480	1.13150	.12950	-.02550	.69210
.701	7.806	.00160	.13590	1.00150	.88170	1.00040	1.04660	1.13070	.13530	.10500	.57710
.701	9.882	.00000	.14760	1.00100	.87140	1.00000	1.05000	1.12910	.14520	.25280	.45500
.700	11.877	-.01440	.14790	.98760	.86040	.99650	1.04930	1.11460	.14360	.36680	.33520
.702	16.058	-.09870	.10080	.91780	.83370	.97590	1.03270	1.03650	.09490	.60770	.07650
.701	20.179	-.25010	-.03060	.79490	.82010	.94260	.99020	.89740	-.02840	.80590	-.16320
	GRADIENT	.02442	.01647	.02084	.00604	.00585	.00579	.02354	.01672	.08243	-.03650

RUN NO. 32/ 0 RN/L = 3.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.801	-2.460	-.15120	.02290	.87130	.85180	.95560	1.01030	1.02010	.02280	-.59190	1.05720
.802	-.415	-.09160	.08890	.92250	.84720	.97320	1.03970	1.08050	.08820	-.38380	.99440
.801	1.691	-.04590	.11330	.96040	.86270	.98630	1.05140	1.12450	.11440	-.20440	.91950
.800	3.635	-.01640	.12600	.98570	.87540	.99510	1.05790	1.15390	.12910	-.08770	.84520
.801	5.761	.00000	.14870	1.00010	.87060	1.00000	1.06800	1.17080	.15150	.04450	.73500
.800	7.786	.00160	.16130	1.00140	.86230	1.00050	1.07300	1.17220	.16280	.16610	.62470
.800	9.842	.00130	.15980	1.00120	.86330	1.00040	1.07230	1.17190	.16140	.28580	.51670
.801	11.927	-.00880	.16410	.99250	.85260	.99740	1.07360	1.16220	.16380	.41170	.40040
.799	16.099	-.08320	.12980	.93150	.82450	.97650	1.05590	1.08970	.12520	.63660	.14400
.800	20.179	-.22420	-.00010	.81690	.81700	.93700	1.00000	.95620	-.00010	.85690	-.11300
	GRADIENT	.02211	.01641	.01872	.00422	.00646	.00760	.02186	.01697	.08308	-.03485

RUN NO. 33/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.850	-2.430	-.14580	.04590	.87770	.83920	.95340	1.02330	1.04800	.04300	-.54220	1.08710
.850	-.456	-.09150	.10400	.92360	.83660	.97120	1.05250	1.10250	.10390	-.36030	1.01770
.850	1.752	-.04450	.13520	.96240	.84780	.98580	1.06920	1.14910	.13680	-.16520	.94100
.850	3.777	-.01280	.15040	.98910	.85980	.99590	1.07800	1.18070	.15440	-.03640	.85780
.847	5.741	-.00190	.17730	.99850	.84810	.99940	1.08990	1.19050	.17930	.06840	.76530
.848	7.887	.00360	.18670	1.00310	.84530	1.00110	1.09470	1.19650	.18820	.19940	.66190
.848	9.922	.00110	.18190	1.00100	.84690	1.00030	1.09250	1.19400	.18380	.33660	.54610
.847	11.978	-.00760	.17750	.99370	.84390	.99760	1.08960	1.18470	.17860	.43850	.43770
.840	16.129	-.08550	.15710	.93130	.80480	.97450	1.07420	1.10730	.15030	.66730	.18090
	GRADIENT	.02140	.01651	.01790	.00352	.00675	.00866	.02134	.01715	.08223	-.03670

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 36/ 0		RN/L = 3 98		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.902	-2.420	-.13560	.05660	.88630	.83980	.95330	1.03300	1.08170	.05800	-.49060	1.11650
.900	-.385	-.09130	.12050	.92480	.82530	.96920	1.06880	1.12760	.12120	-.32370	1.05350
.899	1.762	-.03840	.14680	.96770	.84380	.98680	1.08550	1.17940	.15100	-.14250	.97630
.898	3.756	-.01340	.15340	.98860	.85710	.99530	1.09050	1.20440	.16020	-.01470	.89910
.898	5.781	-.00040	.17680	.99970	.84960	.99990	1.10330	1.21780	.18300	.11440	.80360
.899	7.827	.00250	.18590	1.00220	.84510	1.00090	1.10810	1.22090	.19140	.23800	.69510
.900	9.922	.00160	.19270	1.00140	.83960	1.00050	1.11180	1.22090	.19720	.36810	.59850
.899	12.170	-.01050	.20120	.99140	.82540	.99650	1.11450	1.20830	.20240	.49020	.48190
.900	16.210	-.08640	.20580	.93320	.77400	.97270	1.11010	1.13780	.19420	.71540	.24200
.898	20.331	-.21570	.06350	.85140	.78170	.93120	1.03420	1.01300	.06350	.89340	-.00060
	GRADIENT	.02032	.01533	.01694	.00356	.00635	.00916	.02034	.01629	.07786	-.03527

RUN NO. 38/ 0		RN/L = 4.00		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.950	-2.450	-.13220	.09770	.89260	.81310	.95260	1.06260	1.11250	.09910	-.41140	1.13780
.951	-.334	-.08310	.16500	.93350	.80130	.97060	1.10440	1.16410	.16490	-.25310	1.08580
.948	1.691	-.04220	.17950	.96560	.81860	.98480	1.11520	1.20260	.18300	-.08250	1.02120
.950	3.787	-.01350	.18910	.98890	.83160	.99510	1.12400	1.23280	.19610	.04500	.93140
.949	5.761	.00040	.20960	1.00040	.82700	1.00010	1.13600	1.24610	.21590	.16890	.84420
.948	7.867	.00330	.22050	1.00280	.82170	1.00120	1.14180	1.24870	.22560	.28510	.74450
.950	9.953	.00200	.22400	1.00180	.81840	1.00070	1.14420	1.24840	.22850	.41300	.64780
.948	12.150	-.01130	.22940	.99090	.80600	.99600	1.14490	1.23400	.23030	.52990	.51620
.948	16.210	-.08170	.24190	.93830	.75560	.97290	1.14330	1.16870	.22760	.74760	.29380
.941	20.412	-.21150	.09210	.83780	.76720	.92940	1.05440	1.04010	.08770	.94060	.04020
	GRADIENT	.01915	.01395	.01548	.00349	.00683	.00942	.01927	.01493	.07424	-.03297

RUN NO. 34/ 0		RN/L = 3.89		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.974	-2.450	-.12290	.12880	.90190	.79900	.95520	1.08620	1.13670	.12970	-.36210	1.14390
.977	-.415	-.07660	.21160	.94060	.77630	.97280	1.13860	1.18710	.20730	-.21270	1.08880
.974	1.752	-.03560	.22940	.97190	.79060	.98720	1.15190	1.22490	.22860	-.03570	1.01050
.974	3.787	-.01200	.22740	.99040	.80690	.99560	1.15350	1.24790	.23120	.08930	.93960
.972	5.812	.00000	.25280	1.00010	.79830	1.00000	1.16900	1.25920	.25410	.19850	.84880
.975	7.887	.00240	.26040	1.00200	.79500	1.00090	1.17360	1.26320	.26100	.31730	.74160
.974	10.014	.00060	.26610	1.00050	.79020	1.00020	1.17580	1.26070	.26500	.45130	.63690
.974	12.201	-.01260	.27090	.99030	.77920	.99550	1.17660	1.24790	.26600	.56920	.53180
.973	14.165	-.03620	.26550	.97230	.76830	.98740	1.17010	1.22450	.25690	.67130	.42400
	GRADIENT	.01790	.01499	.01422	.00184	.00650	.01029	.01779	.01558	.07338	-.03312

ORIGINAL PAGE IS
OF POOR QUALITY

ARC 150-1-14(OA220) TPS+ADP

(ANL005) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 35/ 0		RN/L = 3.90		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
1.048	-2.420	-.11300	.20260	.91440	.76040	.95700	1.15470	1.19370	.20110	-.24840	1.18400
1.047	-.516	-.06890	.28460	.94940	.73900	.97450	1.21070	1.23880	.27450	-.12980	1.14160
1.045	1.681	-.03780	.29540	.97190	.75030	.98580	1.22090	1.26690	.28890	.04080	1.06420
	GRADIENT	.01823	.02218	.01393	-.00227	.00698	.01585	.01772	.02103	.07071	-.02937

ARC 150-1-14(OA220) TPS+ADP

(ANL006) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010

RUN NO. 31/ 0		RN/L = 3.73		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.699	-2.511	-.18000	.00800	.84850	.84180	.95780	1.00260	.95740	.00760	-.64030	1.02810
.700	-.405	-.10560	.07380	.91050	.84800	.97500	1.02420	1.02770	.07060	-.42170	.95380
.701	1.620	-.05200	.10260	.95500	.86620	.98740	1.03450	1.07810	.10030	-.26250	.88000
.699	3.696	-.01740	.11610	.98480	.88230	.99570	1.03950	1.11090	.11550	-.13210	.79320
.700	5.721	-.00110	.13380	.99910	.88120	.99970	1.04560	1.12750	.13310	-.02230	.67520
.699	7.776	.00330	.14250	1.00300	.87790	1.00080	1.04820	1.13140	.14110	.10910	.57460
.702	9.831	.00130	.13040	1.00130	.88580	1.00030	1.04500	1.13070	.13040	.25210	.45910
.698	11.978	-.01430	.12940	.98760	.87440	.99650	1.04340	1.11360	.12760	.36570	.32840
.701	16.038	-.09190	.10030	.92300	.83880	.97840	1.03270	1.04220	.09500	.59690	.07650
.696	20.128	-.25360	-.03920	.79130	.82350	.94220	.98760	.89190	-.03640	.80890	-.17930
	GRADIENT	.02624	.01713	.02197	.00676	.00611	.00587	.02476	.01714	.08160	-.03771

RUN NO. 37/ 0		RN/L = 3.90		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.802	-.385	-.09210	.07750	.92130	.85500	.97780	1.03490	1.07900	.07760	-.40200	1.01050
.805	3.625	-.01680	.11930	.98530	.88030	.99490	1.05580	1.15530	.12310	-.09570	.85070
.802	7.908	.00420	.14970	1.00360	.87310	1.00130	1.06890	1.17560	.15310	.16730	.64020
.802	11.968	-.00930	.15710	.99210	.85740	.99730	1.07100	1.16210	.15780	.41490	.40430
.800	15.997	-.08560	.15310	.93100	.80740	.97620	1.06480	1.08960	.14470	.63720	.17990
	GRADIENT	.01878	.01043	.01596	.00631	.00551	.00521	.01903	.01135	.07639	-.03988

ARC 150-1-14(OA220) TPS+ADP

(ANL006) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010

RUN NO. 47/ 0		RN/L = 4.00		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.851	-2.440	-.15260	.04120	.87220	.83770	.95180	1.02090	1.04180	.04120	-.56160	1.08690
.852	-.334	-.09980	.13980	.91950	.80680	.96960	1.06860	1.09900	.13480	-.37490	1.03100
.851	1.671	-.05020	.16950	.95890	.82000	.98450	1.08400	1.14510	.16590	-.17810	.96010
.851	3.736	-.01510	.18900	.98750	.83060	.99530	1.09500	1.17950	.18750	-.07130	.87760
.851	5.862	-.00150	.20810	.99880	.82680	.99950	1.10400	1.19280	.20540	.07690	.77160
.850	7.756	.00170	.21230	1.00150	.82610	1.00050	1.10590	1.19570	.20940	.20240	.68080
.851	9.902	.00220	.22440	1.00190	.81830	1.00070	1.11120	1.19660	.21930	.32150	.57180
.850	11.968	-.01220	.23280	.99030	.80330	.99630	1.11280	1.18210	.22320	.44670	.45090
.850	16.129	-.08950	.22720	.93210	.75950	.97440	1.10410	1.11260	.20600	.68070	.21120
.850	20.311	-.25440	.10670	.81310	.73470	.92350	1.04740	.97090	.09360	.87860	-.06940
	GRADIENT	.02251	.02310	.01877	-.00043	.00708	.01160	.02237	.02294	.08121	-.03402

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(ANL007) (12 JAN 76)

PARAMETRIC DATA

BETA = .000
PHI-N = .000
TPSGAP = .000

RUN NO. 54/ 0		RN/L = 2.58		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.398	-1.964	-.30710	.08620	.77970	.71780	.97720	1.00720	.81110	.06440	-.54800	.90940
.400	.182	-.18730	.13150	.85810	.75840	.98520	1.01160	.89290	.10370	-.42970	.83030
.401	2.227	-.08290	.15670	.93320	.80580	.99300	1.01480	.97120	.13160	-.29650	.76380
.401	4.283	-.02360	.17640	.98040	.83330	.99790	1.01720	1.02050	.15310	-.19700	.63450
.402	6.328	.00300	.18040	1.00260	.84940	1.00030	1.01800	1.04370	.15950	-.04860	.51670
.401	8.323	.00080	.19730	1.00070	.83580	1.00010	1.01930	1.04160	.17170	.06860	.39490
.401	10.348	.00150	.19640	1.00140	.83700	1.00010	1.01930	1.04230	.17110	.21800	.30070
.401	12.433	-.01890	.17000	.98420	.84120	.99830	1.01670	1.02430	.14880	.33360	.10980
.401	16.635	-.13360	.15730	.89660	.77470	.98910	1.01430	.93320	.12680	.56170	-.13320
	GRADIENT	.04599	.01426	.03260	.01900	.00356	.00160	.03401	.01416	.05707	-.04283

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(ANL007) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000
PHI-N = .000

RUN NO. 53/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.618	-1.934	-.27020	.11290	.80470	.72300	.95560	1.02400	.88450	.08970	-.54660	.95560
.618	.172	-.21600	.16280	.84340	.72530	.96450	1.03470	.92690	.12980	-.39200	.87900
.622	2.116	-.06590	.17880	.94710	.80350	.98780	1.04280	1.04230	.15810	-.26520	.78740
.619	4.242	-.02850	.19980	.97690	.81420	.99470	1.04790	1.07400	.17890	-.15260	.67460
.619	6.277	-.00490	.19460	.99600	.83370	.99910	1.04790	1.09510	.17840	-.01840	.56400
.620	8.373	.00070	.23170	1.00070	.81240	1.00010	1.05580	1.10070	.20710	.12650	.45300
.619	10.429	.00040	.21080	1.00040	.82620	1.00010	1.05140	1.10000	.19150	.24300	.31770
.620	12.454	-.01460	.20720	.98810	.81850	.99730	1.05020	1.08680	.18650	.36590	.19620
.619	16.544	-.11080	.19340	.91510	.76680	.98060	1.04380	1.00620	.16310	.60190	-.09630
	GRADIENT	.04256	.01354	.03017	.01706	.00684	.00390	.03326	.01445	.06391	-.04565

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(ANL008) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000
PHI-N = -90.000

RUN NO. 36/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.401	-1.944	-.25860	.09380	.80890	.73950	.97990	1.00810	.84190	.07220	-.56650	.84460
.401	.233	-.14040	.12560	.88920	.79000	.98840	1.01160	.92540	.10330	-.41100	.73240
.400	2.177	-.06930	.14950	.94320	.82050	.99410	1.01430	.99150	.12760	-.32110	.73270
.400	4.252	-.03300	.16680	.97260	.83360	.99710	1.01620	1.01210	.14470	-.18200	.62050
.401	6.277	-.00550	.18270	.99560	.84190	.99950	1.01800	1.03630	.16010	-.05980	.51670
.401	8.282	.00230	.19480	1.00200	.83860	1.00020	1.01910	1.04280	.17000	.08070	.41930
.402	10.378	-.00150	.19680	.99880	.83460	.99530	1.01930	1.03980	.17100	.21590	.27730
.402	12.433	-.01650	.17150	.98620	.84180	.99850	1.01700	1.02660	.15030	.30260	.15250
.401	16.524	-.12210	.15710	.90460	.78180	.99000	1.01440	.94150	.12780	.56120	-.11650
.401	20.594	-.33700	.04170	.75570	.72540	.97440	1.00350	.78650	.03150	.75660	-.37810
.401	24.686	-.75660	-.12500	.53630	.61290	.95130	.99100	.55820	-.07970	.90740	-.65970
	GRADIENT	.03652	.01184	.02660	.01527	.00280	.00132	.02765	.01179	.06065	-.03291

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(ANL008) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .000
 PHI-N = -90.000

RUN NO. 55/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.620	-1.934	-.20460	.08490	.84140	.77550	.96380	1.01950	.92530	.07240	-.52570	.91720
.618	.111	-.12440	.16130	.90330	.77780	.97800	1.03690	.99280	.13790	-.39070	.75780
.619	2.258	-.06820	.18220	.94550	.79980	.98760	1.04290	1.03940	.16020	-.25840	.77300
.618	4.273	-.02620	.19420	.97860	.81950	.99510	1.04680	1.07570	.17490	-.14560	.68640
.618	6.348	-.00280	.19460	.96770	.83520	.99950	1.04780	1.09670	.17860	-.00870	.57210
.618	8.404	-.00070	.21520	.99950	.82250	.99990	1.05200	1.09860	.19460	.10580	.42950
.618	10.419	-.00070	.21620	.99950	.82180	.99970	1.05210	1.09850	.19530	.23140	.31970
.619	12.363	-.01380	.22340	.98890	.80840	.99750	1.05320	1.08720	.19850	.37860	.18310
.617	16.575	-.10510	.17980	.91830	.77840	.98150	1.04100	1.00900	.15370	.59250	-.10850
	GRADIENT	.02848	.01679	.02185	.00742	.00498	.00423	.02397	.01588	.06129	-.03248

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(ANL009) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .000
 PHI-N = 180.000

RUN NO. 57/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.402	-1.883	-.21600	.05790	.83050	.78510	.98220	1.00530	.86450	.04730	-.58350	.86780
.400	.142	-.14570	.13610	.88640	.78020	.98810	1.01240	.92240	.11050	-.43640	.75620
.400	2.227	-.06280	.15110	.94840	.82390	.99460	1.01450	.98700	.12950	-.31370	.71460
.401	4.232	-.02350	.16640	.99040	.84050	.99790	1.01640	1.02030	.14550	-.20020	.66380
.400	6.237	.00000	.17380	1.00010	.85200	1.00000	1.01730	1.04090	.15410	-.07320	.52600
.401	8.252	.00450	.19210	1.00390	.84220	1.00040	1.01900	1.04500	.16840	.09180	.42230
.400	10.287	.00310	.19640	1.00270	.83810	1.00030	1.01920	1.04340	.17130	.20360	.27930
.400	12.353	-.02140	.17890	.98220	.83320	.99810	1.01740	1.02220	.15510	.34440	.13460
.401	16.463	-.10960	.15080	.91310	.79350	.99090	1.01400	.95050	.12450	.57320	-.12390
	GRADIENT	.03235	.01666	.02506	.01029	.00263	.00173	.02605	.01534	.06228	-.03197

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(ANL010) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSPGAP = .000
PHI-N = 180.000

RUN NO. 58/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.622	-1.954	-.21770	.08650	.83320	.78680	.96160	1.01980	.91700	.07300	-.54010	.90050
.620	.152	-.12380	.15590	.90330	.78150	.97790	1.03610	.99360	.13400	-.40010	.77050
.620	2.146	-.06520	.17900	.94770	.80380	.98800	1.04250	1.04220	.15820	-.25780	.78050
.620	4.212	-.02210	.19530	.98190	.82150	.99590	1.04750	1.07990	.17640	-.14160	.66950
.620	6.257	-.00420	.19450	.99660	.83430	.99920	1.04800	1.09600	.17840	-.01810	.57140
.620	8.323	.00360	.22310	1.00300	.82000	1.00070	1.05420	1.10320	.20120	.12010	.45690
.621	10.368	.00250	.21250	1.00210	.82650	1.00050	1.05210	1.10230	.19320	.23760	.31610
.620	12.383	-.01440	.21180	.98430	.81560	.99730	1.05100	1.06690	.18930	.36920	.19810
.619	16.564	-.09680	.17680	.92400	.78520	.98270	1.04090	1.01580	.15260	.61800	-.09070
	GRADIENT	.03152	.01710	.02396	.00909	.00552	.00438	.02624	.01635	-.06527	-.03345

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(ANL011) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSPGAP = .010
PHI-N = .000

RUN NO. 10/ 0 RN/L = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.299	-2.167	-.31400	.11900	.78100	.69790	.98680	1.00530	.79860	.08490	-.61270	.88350
.299	-.061	-.23150	.16510	.83430	.71610	.99010	1.00750	.85310	.12090	-.44840	.81660
.299	1.984	-.14900	.20280	.88990	.73980	.99340	1.00950	.90990	.15340	-.33540	.73340
.297	3.979	-.03730	.19080	.96970	.81440	.99820	1.00980	.99120	.15880	-.23610	.64070
.298	6.024	-.00950	.20860	.99230	.82100	.99950	1.01090	1.01440	.17510	-.06780	.52420
.299	8.049	.00000	.22330	1.00010	.81750	1.00000	1.01170	1.02270	.18670	.04360	.38280
.299	10.135	-.00140	.22120	.99900	.81810	.99990	1.01160	1.02160	.18500	.20310	.27560
.299	12.120	-.02610	.20760	.97890	.81070	.99870	1.01070	1.00090	.17200	.31130	.18610
.299	16.220	-.13160	.19850	.90110	.75190	.99410	1.00950	.92130	.15260	.50630	-.06910
.299	20.230	-.35480	.04350	.74640	.71520	.98480	1.00200	.76310	.03180	.73580	-.28370
.298	24.351	-.78220	-.12780	.52720	.60450	.97180	.99510	.53900	-.07900	.87730	-.56260
	GRADIENT	.04451	.01243	.03031	.01814	.00183	.00076	.03094	.01245	.06075	-.03958

PARAMETRIC DATA

BETA = .000 TPGAP = .010
PHI-N = .000

RUN NO. 11 / 0		RN/L = 2.58		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.402	-2.126	-.29970	.08910	.78420	.72010	.97720	1.00760	.81650	.06680	-.58120	.89880
.401	-.101	-.22160	.16520	.84030	.72110	.98320	1.01400	.87460	.12400	-.46870	.83350
.401	1.934	-.08230	.18450	.93510	.78950	.99320	1.01710	.97330	.15160	-.34280	.74730
.401	3.969	-.03350	.19180	.97270	.81620	.99710	1.01830	1.01240	.16290	-.22420	.63670
.400	5.974	-.00700	.20600	.99430	.82450	.99940	1.01990	1.03480	.17680	-.09170	.53240
.402	8.090	.00150	.21270	1.00140	.82570	1.00010	1.02060	1.04240	.18280	.05650	.42570
.401	10.105	-.00230	.22010	.99820	.81810	.99980	1.02110	1.03890	.18740	.15710	.27850
.401	12.160	-.01630	.19810	.98670	.82360	.99860	1.01910	1.02700	.16980	.29180	.18430
.400	16.251	-.11250	.17360	.91260	.77760	.99090	1.01580	.94980	.14050	.50270	-.10520
.402	20.270	-.33760	.02310	.75200	.73500	.97380	1.00200	.78290	.01770	.73020	-.35390
.402	24.391	-.77490	-.13880	.52540	.61130	.95020	.99000	.54800	.08830	.90360	-.56310
	GRADIENT	.04615	.01610	.03249	.01756	.00343	.00173	.03378	.01554	.05890	-.04294
RUN NO. 12 / 0		RN/L = 3.05		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.500	-2.116	-.29830	.09640	.78620	.71710	.96640	1.01290	.83650	.07350	-.57030	.91490
.499	-.091	-.17910	.15600	.86590	.74900	.97900	1.02170	.92120	.12430	-.42610	.84660
.500	1.934	-.07010	.17820	.94390	.80110	.99120	1.02660	1.00450	.15190	-.31270	.74820
.499	3.989	-.03520	.19490	.97150	.81300	.99550	1.02940	1.03340	.16860	-.20040	.65580
.500	5.994	-.00150	.21350	.99880	.83560	.99980	1.03040	1.06290	.17370	-.07900	.54670
.500	8.009	.00210	.22690	1.00180	.81650	1.00030	1.03440	1.06590	.19710	.03180	.42510
.500	10.105	-.00370	.22490	.99710	.81400	.99950	1.03410	1.06100	.19480	.17260	.30890
.499	12.160	-.02170	.21640	.98260	.80780	.99730	1.03230	1.04510	.18590	.31230	.16570
.499	16.281	-.10910	.18050	.91550	.77550	.98680	1.02600	.97390	.14890	.55760	-.08540
.498	20.361	-.29630	.02880	.77640	.75470	.96520	1.00400	.82570	.02310	.78100	-.34660
.498	24.482	-.71260	-.12640	.55780	.63050	.92990	.98530	.58580	.08490	.91440	-.53150
	GRADIENT	.04413	.01560	.03114	.01669	.00489	.00267	.03311	.01537	.06012	-.04308

ORIGINAL PAGE IS
OF POOR QUALITY

PARAMETRIC DATA

BETA = .000 TRSGAP = .010
 PHI-N = .000

		RUN NO.	13/ 0	RN/L =	3.50	GRADIENT INTERVAL =		-5.00/	5.00			
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2	
.621	-2.157	-.26860	.08020	.80100	.74150	.95440	1.01770	.88110	.06540	-.59870	.94060	
.621	-.132	-.18410	.16530	.86360	.74110	.96880	1.03640	.95010	.13470	-.40180	.87020	
.622	1.924	-.09900	.21080	.92450	.76350	.98260	1.04810	1.01760	.17720	-.29370	.78310	
.621	4.009	-.03360	.20660	.97300	.80640	.95380	1.04940	1.07040	.18330	-.17780	.69270	
.621	6.024	-.00530	.21630	.99570	.81860	.99900	1.05260	1.09550	.19480	-.05160	.58610	
.622	8.059	-.00140	.24180	1.00120	.80630	1.00030	1.05810	1.10180	.21460	.07890	.47570	
.621	10.145	-.00360	.24260	.99720	.80250	.99930	1.05780	1.09690	.21410	.21090	.34770	
.620	12.201	-.01850	.22020	.98510	.80730	.99660	1.05260	1.08340	.19550	.33010	.21800	
.620	16.362	-.10630	.19450	.91830	.76880	.98150	1.04420	1.00990	.16450	.58350	-.07420	
.618	20.412	-.29140	.05670	.78390	.74180	.95090	1.01240	.86180	.04620	.78260	-.28980	
.617	24.543	-.66830	-.08270	.57860	.63070	.90460	.98470	.63570	-.05730	.94460	-.52750	
	GRADIENT	.03843	.02050	.02866	.01059	.00642	.00518	.03090	.01923	.06663	-.04043	
		RUN NO.	14/ 0	RN/L =	3.72	GRADIENT INTERVAL =		-5.00/	5.00			
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2	
.701	-2.167	-.27380	.09580	.80010	.73020	.94410	1.02710	.90320	.07890	-.58260	.96810	
.699	-.061	-.20210	.15850	.85150	.73500	.95870	1.04490	.96050	.13140	-.40710	.89300	
.699	1.863	-.09500	.19420	.92570	.77510	.97930	1.05810	1.04430	.16980	-.28010	.81930	
.702	4.020	-.02500	.22700	.98010	.79870	.99440	1.07070	1.10700	.20480	-.13490	.72120	
.697	6.116	-.00690	.23030	.99450	.80840	.99850	1.07140	1.12130	.20990	-.01420	.59970	
.697	8.151	.00060	.24490	1.00060	.80370	1.00010	1.07560	1.12820	.22200	.11410	.48400	
.698	10.186	-.00270	.24500	.99790	.80160	.99940	1.07540	1.12530	.22140	.22790	.35930	
.706	12.231	-.01380	.25230	.98920	.78990	.99690	1.07870	1.11880	.22540	.37460	.26190	
.698	16.392	-.09600	.21310	.92670	.76390	.97960	1.06260	1.04520	.18360	.62000	-.01780	
.695	20.412	-.25570	.07590	.80800	.75110	.94700	1.02170	.91050	.06420	.81440	-.24900	
.697	24.614	-.63540	-.05710	.59750	.63360	.88830	.98610	.67370	-.04080	.97470	-.49970	
	GRADIENT	.04153	.02096	.02993	.01195	.00836	.00703	.03388	.02031	.07179	-.03978	

PARAMETRIC DATA

BETA = .000
 PHI-N = .000
 TPSGAP = .010

RUN NO. 16/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.900	-2.197	-.29520	.19180	.80160	.67260	.91630	1.08930	.97740	.15730	-.47820	1.07620
.900	-.071	-.22350	.24450	.84780	.68130	.93780	1.11510	1.03360	.20310	-.28550	1.00290
.901	1.984	-.09400	.29690	.93250	.71900	.97230	1.14800	1.13750	.26040	-.12560	.92520
.899	4.070	-.02040	.29440	.98450	.76060	.99370	1.15440	1.19990	.27290	.00070	.82720
.898	6.116	-.00320	.31160	.99760	.76060	.99900	1.16320	1.21550	.28880	.13450	.73900
.898	8.211	.00200	.32030	1.00160	.75860	1.00060	1.16710	1.22010	.29600	.26320	.62130
.899	10.378	-.00070	.32590	.99960	.75390	.99980	1.16930	1.21810	.29940	.39420	.50780
.896	12.383	-.01300	.32730	.99040	.74620	.99610	1.16710	1.20550	.29720	.50180	.37810
.901	16.595	-.08320	.32410	.94130	.71070	.97580	1.15960	1.14770	.28050	.73100	.13380
.903	20.837	-.23040	.17550	.83620	.71130	.93270	1.08710	1.02100	.15250	.91990	-.12760
.898	24.897	-.51760	.12100	.68420	.61030	.87130	1.05080	.83340	.08990	1.06860	-.45090
GRADIENT		.04570	.01728	.03035	.01444	.01242	.01094	.03696	.01938	.07658	-.03953

RUN NO. 15/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.980	-2.217	-.29370	.28750	.81430	.63250	.91470	1.15450	1.02910	.22980	-.33550	1.12090
.979	-.162	-.32050	.35040	.80830	.59850	.91210	1.17760	1.02080	.26490	-.17610	1.05400
.977	1.995	-.05000	.36290	.96470	.70780	.98380	1.21670	1.21750	.32420	-.02050	.97780
.976	4.101	-.01500	.36410	.98920	.72520	.99500	1.22200	1.24770	.33300	.10610	.87410
.972	6.085	-.00220	.37610	.99850	.72560	.99930	1.22720	1.25710	.34360	.20790	.78590
.972	8.333	.00040	.38820	1.00040	.72060	1.00010	1.23310	1.25970	.35230	.33540	.67980
.973	10.287	.00000	.39320	1.00010	.71780	1.00000	1.23550	1.25960	.35550	.45870	.57420
.971	12.444	-.01180	.39580	.99170	.71050	.99620	1.23370	1.24810	.35390	.57360	.45820
.973	16.726	-.08340	.38130	.94320	.68280	.97410	1.21740	1.18810	.32790	.79440	.22090
.965	20.787	-.21610	.23230	.85080	.69050	.93280	1.13120	1.06780	.20130	.96620	-.03450
.959	25.009	-.50190	.18970	.70330	.59120	.86770	1.09030	.88010	.14040	1.10580	-.35280
GRADIENT		.05263	.01143	.03238	.01846	.01486	.01145	.04053	.01748	.07011	-.03869

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(ANL012) (12 JAN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .010
PHI-N = .000

RUN NO. 17/ 0 RN/L = 1.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.302	-2.167	-.30300	.07590	.78030	.72530	.98650	1.00360	.79820	.05630	-.61760	.89170
.302	-.091	-.19240	.13810	.85550	.75170	.99110	1.00680	.87510	.10620	-.44750	.81390
.302	1.974	-.11740	.16740	.90870	.77840	.99440	1.00850	.92960	.13330	-.31590	.73700
.303	3.959	-.03000	.17480	.97520	.83010	.99850	1.00950	.99770	.14840	-.22030	.65890
.303	5.964	-.00510	.18130	.99580	.84300	.99970	1.01010	1.01990	.15640	-.08550	.52670
.304	8.019	.00130	.19580	1.00120	.83720	1.00010	1.01090	1.02450	.16780	.07280	.43200
.303	10.014	.00250	.17770	1.00230	.85100	1.00010	1.00990	1.02540	.15470	.17260	.29760
.302	12.059	-.01430	.18020	.98810	.83730	.99930	1.00980	1.01080	.15430	.27570	.17670
.302	16.190	-.12010	.16250	.90650	.77980	.99430	1.00830	.92730	.12960	.52740	-.10850
.301	20.179	-.28640	.00470	.77820	.77460	.98650	1.00020	.79600	.00370	.71330	-.40360
.302	24.280	-.86190	-.16910	.49090	.59080	.96880	.99350	.50210	-.10220	.87390	-.61980
GRADIENT		.04374	.01600	.03120	.01665	.00192	.00095	.03194	.01488	.06482	-.03792

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(ANL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPSGAP = .010
PHI-N = .000

RUN NO. 18/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.303	-2.238	-.29540	.09670	.78790	.71840	.98690	1.00460	.80600	.07110	-.60630	.86140
.301	-.263	-.20710	.17720	.85050	.72250	.99090	1.00830	.86990	.13100	-.48170	.78610
.302	1.772	-.11590	.21820	.91320	.74960	.99470	1.01070	.93420	.16730	-.38680	.68420
.300	3.756	-.04440	.21930	.96700	.79140	.99790	1.01120	.98690	.17750	-.27480	.60860
.302	5.802	-.00940	.22950	.99250	.80720	.99950	1.01210	1.01530	.18950	-.12780	.46990
.303	7.877	-.00270	.25630	.99800	.79440	.99990	1.01340	1.02110	.20830	.05570	.34850
.302	9.912	.00130	.23890	1.00120	.80810	1.00010	1.01260	1.02420	.19750	.14670	.22450
.301	11.897	-.01080	.22550	.99140	.80900	.99950	1.01180	1.01400	.18660	.27180	.09770
.302	15.957	-.09650	.22770	.92730	.75530	.99550	1.01120	.94850	.17590	.50690	-.15490
.303	20.078	-.28900	.10200	.79230	.71900	.98720	1.00480	.81060	.07500	.72310	-.47270
.302	24.158	-.89140	-.04830	.57930	.60870	.97420	.99810	.59260	-.03010	.87840	-.76120
GRADIENT		.04218	.02041	.02968	.01230	.00184	.00111	.03032	.01775	.05441	-.04299

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(ANL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPSGAP = .010
 PHI-N = .000

RUN NO. 19/ 0 RN/L = 2.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.400	-2.268	-.29790	.09520	.78630	.71790	.97770	1.00800	.81820	.07110	-.62590	.87200
.401	-.213	-.18510	.17930	.86440	.73300	.98570	1.01540	.89980	.13680	-.49180	.78830
.401	1.853	-.12210	.23290	.91000	.73810	.99050	1.02020	.94720	.17890	-.37650	.71600
.401	3.898	-.03620	.22910	.97150	.79040	.99700	1.02130	1.01120	.18850	-.27160	.58560
.400	5.923	-.01680	.23370	.98670	.79980	.99860	1.02180	1.02680	.19450	-.11770	.49770
.401	7.897	.00240	.24270	1.00200	.80630	1.00020	1.02290	1.04280	.20360	.02850	.36880
.400	9.912	-.00320	.25800	.99750	.79290	.99970	1.02380	1.03810	.21290	.15240	.22420
.401	11.958	-.00640	.24330	.99500	.80030	.99950	1.02280	1.03560	.20260	.27460	.10380
.400	16.048	-.10060	.23610	.92480	.74820	.99210	1.02060	.96240	.18380	.51840	-.20180
.399	20.098	-.30790	.12760	.78560	.69670	.97770	1.01030	.81740	.09250	.72480	-.45890
.397	24.189	-.74590	-.05320	.55940	.59080	.95460	.99640	.58180	-.03270	.89230	-.69980
	GRADIENT	.04124	.02215	.02923	.01082	.00305	.00217	.03046	.01918	.05730	-.04529

RUN NO. 20/ 0 RN/L = 3.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.501	-2.258	-.29830	.10330	.78720	.71350	.96650	1.01380	.83780	.07850	-.59880	.89830
.501	-.263	-.17990	.17300	.86710	.73920	.97910	1.02390	.92280	.13610	-.48160	.83010
.501	1.812	-.10390	.22530	.92190	.75240	.98770	1.03170	.98130	.18040	-.38090	.72040
.500	3.837	-.04600	.24230	.96440	.77630	.99440	1.03500	1.02620	.20010	-.25760	.60050
.500	5.883	-.01390	.24410	.98900	.79500	.99830	1.03610	1.05240	.20650	-.09680	.49000
.500	7.897	.00110	.26780	1.00090	.78950	1.00010	1.03940	1.06510	.22500	.01690	.38450
.505	9.892	.00160	.27900	1.00130	.78290	1.00020	1.04160	1.06690	.23270	.17260	.23480
.505	12.028	-.00920	.29410	.99300	.77330	.99890	1.04180	1.05800	.23410	.29780	.10770
.505	16.149	-.10790	.26120	.92130	.73050	.98740	1.03630	.98160	.20330	.55120	-.18710
.504	20.149	-.26750	.12680	.80820	.71720	.96940	1.01730	.86090	.09690	.75580	-.45040
.503	24.249	-.67500	-.04090	.58690	.61200	.93440	.99530	.62500	-.02670	.91860	-.72250
	GRADIENT	.04087	.02303	.02878	.00989	.00455	.00350	.03061	.02008	.75520	-.04929

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(ANL013) (12 JAN 76)

PARAMETRIC DATA

BETA = -2.000 TPSEGAP = .010
PHI-N = .000

RUN NO. 21/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.621	-2.349	-.29920	.10990	.78770	.70980	.95140	1.02310	.85660	.08580	-.62790	.93250
.619	-.314	-.18930	.19610	.86340	.72190	.96890	1.04180	.94940	.15560	-.45150	.84250
.620	1.802	-.09940	.23760	.92570	.74800	.98300	1.05260	1.01810	.19540	-.33700	.75010
.619	3.716	-.04550	.25390	.96510	.76960	.99200	1.05770	1.06110	.21490	-.21050	.60940
.619	5.802	-.01440	.25530	.98870	.78760	.99740	1.05940	1.08720	.22110	-.06210	.52360
.622	7.837	.00040	.27620	1.00040	.78390	1.00010	1.06450	1.10090	.23830	.06920	.40330
.620	9.943	.00110	.29160	1.00090	.77500	1.00020	1.06700	1.10100	.24860	.21720	.24150
.622	12.099	-.00910	.30670	.99310	.76000	.99840	1.06950	1.09290	.25650	.33850	.13820
.620	16.038	-.07420	.25880	.94440	.75030	.98730	1.05750	1.03880	.21360	.57040	-.15460
.619	20.220	-.26610	.14470	.81140	.70880	.95700	1.03030	.89220	.11280	.78050	-.42320
.619	24.361	-.61660	.01690	.62260	.61220	.91400	1.00310	.68460	.01140	.95260	-.73840
	GRADIENT	.04198	.02339	.02932	.01011	.00670	.00566	.03217	.02109	.06729	-.05215

RUN NO. 22/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.698	-2.359	-.26630	.13450	.80990	.71390	.94720	1.03690	.91340	.10830	-.60330	.95680
.698	-.213	-.16940	.20100	.87650	.72980	.96560	1.05650	.98860	.16550	-.44260	.87690
.700	1.752	-.09800	.24870	.92730	.74260	.97970	1.07150	1.04650	.20840	-.32050	.77290
.698	3.898	-.04200	.27390	.96820	.76000	.99110	1.08000	1.09190	.23480	-.18720	.65310
.702	5.812	-.01630	.28210	.98750	.77020	.99650	1.08460	1.11520	.24540	-.02580	.57320
.701	7.958	.00120	.30200	1.00100	.76980	1.00030	1.09010	1.13010	.26210	.10010	.43510
.699	9.933	.00190	.31360	1.00150	.76240	1.00040	1.09220	1.12980	.26970	.23590	.30550
.699	12.059	-.00890	.31810	.99340	.75370	.99310	1.09260	1.12090	.27050	.34970	.17430
.699	16.170	-.07570	.28040	.94430	.73750	.98450	1.07990	1.06640	.23330	.60800	-.11950
.702	20.230	-.24670	.15400	.82390	.71400	.95060	1.04290	.93070	.12420	.81990	-.38610
.701	24.432	-.60150	.03980	.63360	.60930	.89740	1.00940	.71540	.02740	.97450	-.75650
	GRADIENT	.03589	.02246	.02535	.00729	.00703	.00696	.02851	.02036	.06611	-.04893

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(ANL014) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPSPAP = .010
PHI-N = .000

RUN NO. 23/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.303	-2.389	-.27200	.03740	.79240	.76380	.98720	1.00190	.81070	.02920	-.61530	.94390
.302	-.314	-.40020	.09310	.73210	.66970	.98360	1.00410	.74890	.06380	-.43280	.85620
.301	1.610	-.09750	.09780	.91850	.83670	.99500	1.00530	.93950	.08370	-.32730	.79050
.301	3.716	-.02580	.10240	.97730	.88650	.99860	1.00590	.99960	.09280	-.19450	.71160
.302	5.792	-.00600	.10790	.99170	.89780	.99970	1.00630	1.01760	.09910	-.08840	.60840
.302	7.695	.00250	.13420	1.00230	.88370	1.00010	1.00770	1.02530	.12130	.03590	.48470
.303	9.811	-.00240	.11860	.99800	.89220	.99990	1.00690	1.02100	.10820	.16940	.40050
.303	11.877	-.02200	.11290	.99080	.88130	.99880	1.00650	1.00340	.10180	.31150	.24330
.303	15.916	-.10930	.10110	.90980	.82630	.99440	1.00550	.93080	.08540	.52700	-.04620
.302	19.967	-.32940	-.00980	.75050	.75790	.98470	.99950	.76770	-.00760	.72790	-.27480
.302	24.057	-.85750	-.24160	.46940	.61890	.96750	.99020	.48020	-.15300	.88160	-.53380
	GRADIENT	.05097	.00989	.03634	.02618	.00224	.00065	.03714	.01040	.06762	-.03769

RUN NO. 24/ 0 RN/L = 2.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.400	-2.460	-.28490	.03680	.78450	.75670	.97750	1.00320	.81640	.02900	-.59510	.94080
.401	-.273	-.44520	.10650	.71310	.64450	.96990	1.00800	.74230	.07150	-.41560	.89160
.401	1.681	-.09650	.10270	.91960	.83400	.99160	1.01000	.95700	.08910	-.31030	.80400
.402	3.716	-.03130	.12070	.97290	.86810	.99710	1.01230	1.01280	.10910	-.21580	.69160
.401	5.771	-.00210	.12630	.99820	.88620	.99530	1.01310	1.03820	.11650	-.08120	.58670
.402	7.786	.00440	.15420	1.00390	.86980	1.00040	1.01580	1.04500	.13960	.03460	.48330
.401	9.842	-.00220	.15590	.99820	.86360	.99980	1.01580	1.03900	.14010	.18060	.37610
.401	11.836	-.02210	.14260	.98110	.85870	.99800	1.01440	1.02120	.12750	.30480	.27060
.402	15.927	-.11470	.11370	.90670	.81420	.99020	1.01090	.94390	.09630	.51160	-.00790
.401	19.997	-.28900	-.05420	.76600	.81000	.97550	.99490	.79720	-.04570	.74640	-.26690
.400	24.016	-.75450	-.22890	.50550	.65550	.94840	.98250	.52600	-.15620	.89560	-.53330
	GRADIENT	.05314	.01226	.03711	.02495	.00387	.00144	.03866	.01265	.06086	-.04063

RUN NO. 25/ 0 RN/L = 3.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.502	-2.481	-.28550	.05820	.78760	.74430	.96640	1.00810	.83840	.04610	-.59910	.95850
.501	-.294	-.43120	.10860	.72000	.64950	.95580	1.01320	.76640	.07510	-.40630	.89130
.502	1.721	-.06200	.11990	.94760	.84620	.99170	1.01910	1.00900	.10800	-.29860	.81690
.502	3.555	-.02030	.13010	.99240	.86930	.99720	1.02130	1.04600	.12040	-.19450	.71330
.501	5.761	-.00050	.13780	.99970	.87860	.99990	1.02260	1.06390	.12880	-.06560	.60140
.501	7.786	.00100	.16360	1.00090	.86020	1.00010	1.02630	1.06540	.14980	.04990	.51420
.501	9.852	-.00200	.16550	.99840	.85670	.99970	1.02650	1.06250	.15090	.18500	.38660
.501	11.927	-.01650	.13350	.98570	.86960	.99770	1.02170	1.04910	.12360	.30190	.28930
.500	15.876	-.12420	.11630	.90000	.80620	.98430	1.01750	.95770	.09980	.55890	.04060
.499	24.118	-.68670	-.21020	.53490	.67730	.92720	.97360	.56910	-.15150	.91850	-.05720
	GRADIENT	.05624	.01124	.03931	.02751	.00621	.00223	.04190	.01256	.06495	-.03953

ORIGINAL PAGES
OF POOR QUALITY

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(ANL014) (12 JAN 76)

PARAMETRIC DATA

BETA = 2.000 TPGAP = .010
 PHI-N = .000

		RUN NO.	26/ 0	RN/L =	3.60	GRADIENT INTERVAL =	-5.00/ 5.00				
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.621	-2.440	-.30360	.06200	.77770	.73230	.94910	1.01350	.85550	.05000	-.61270	.99780
.620	-.334	-.44600	.11510	.71430	.64060	.93480	1.02180	.78560	.08110	-.41080	.93010
.621	1.721	-.07210	.12690	.94000	.83410	.98620	1.03140	1.03410	.11650	-.27260	.84720
.621	3.756	-.01890	.14140	.98380	.86190	.99630	1.03620	1.08230	.13410	-.17820	.75010
.620	5.761	-.00070	.15340	.99950	.86650	.99990	1.03940	1.09940	.14620	-.05000	.66500
.620	7.776	.00370	.16100	1.00330	.86410	1.00070	1.04120	1.10350	.15310	.08370	.54660
.619	9.892	.00140	.16040	1.00120	.86290	1.00030	1.04080	1.10080	.15210	.21360	.42580
.620	11.846	-.01430	.15320	.98780	.85660	.99720	1.03880	1.08630	.14430	.32400	.31150
.619	16.018	-.11420	.12440	.90790	.80740	.97900	1.02960	.99830	.11040	.58160	.04390
.621	20.088	-.28470	-.01160	.77640	.78550	.94870	.99730	.85430	-.01000	.77610	-.21860
.622	24.179	-.64920	-.13670	.57080	.66120	.90150	.97310	.62810	-.09950	.94600	-.47940
	GRADIENT	.05926	.01214	.04076	.02807	.00932	.00377	.04486	.01394	.06992	-.03998
		RUN NO.	27/ 0	RN/L =	3.83	GRADIENT INTERVAL =	-5.00/ 5.00				
MACH	ALPHA	DPACL	DPML	Q*L/QC	QCL/QC	ACL/PT	PML/P	CPTL	CPSL	CPA1	CPA2
.702	-2.470	-.32570	.06440	.76520	.71890	.93410	1.01810	.86430	.05230	-.61040	1.01730
.699	-.314	-.45460	.13560	.71420	.62890	.92040	1.03290	.80580	.09620	-.39540	.96020
.699	1.640	-.06840	.12930	.94290	.83500	.98410	1.04160	1.06370	.12180	-.26580	.88300
.699	3.655	-.02440	.15130	.97930	.85060	.99420	1.04960	1.10480	.14520	-.13930	.78670
.701	5.771	-.00030	.17070	.99980	.85400	.99990	1.05660	1.12870	.16460	-.01440	.69400
.701	7.776	.00170	.18080	1.00150	.84820	1.00040	1.05950	1.13080	.17310	.11570	.58540
.700	9.912	.00060	.17730	1.00060	.84990	1.00010	1.05830	1.12910	.17000	.24310	.45450
.698	11.917	-.01620	.17170	.98640	.84190	.99620	1.05570	1.11260	.16310	.38170	.34760
.702	16.058	-.09530	.15620	.92390	.79910	.97870	1.04860	1.04330	.14090	.61110	.08140
.703	20.118	-.26250	.01280	.79420	.78420	.94220	1.00390	.89720	.01130	.81540	-.16100
.701	24.330	-.61630	-.11520	.58900	.66620	.88500	.97020	.66560	-.08660	.96300	-.46970
	GRADIENT	.06274	.01266	.04237	.02907	.01187	.00509	.04764	.01501	.07606	-.03774

ARC 150-1-14(0A220) TPS(MOD)+ADP+NOSE BOOM

(FNLI07) 12 FEB 76

PARAMETRIC DATA

BETA = .000
 PHI-N = .000
 TPGAP = .000

RUN NO. 54/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.398	-1.964	.00270	.05060	1.00270	.95430	1.00030	1.00560	1.04310	.05030	-.55450	-.31300
.400	.182	.00130	.04790	1.00140	.95560	1.00010	1.00530	1.04200	.04760	-.47990	-.31830
.401	2.227	.00400	.04650	1.00390	.95930	1.00040	1.00520	1.04480	.04650	-.37390	-.32000
.401	4.283	-.00070	.04590	.99940	.95560	.99990	1.00510	1.04030	.04560	-.26470	-.28460
.402	6.328	.00460	.04660	1.00450	.95980	1.00050	1.00530	1.04570	.04650	-.17430	-.29930
.401	8.323	.00400	.04440	1.00390	.96120	1.00040	1.00500	1.04490	.04440	-.10150	-.30040
.401	10.348	.00530	.04220	1.00520	.96450	1.00050	1.00480	1.04630	.04240	.00090	-.30200
.401	12.433	.00330	.04600	1.00330	.95920	1.00030	1.00520	1.04420	.04590	.10130	-.30270
.401	16.635	.00070	.05100	1.00070	.95220	1.00010	1.00570	1.04160	.05050	.26130	-.30070
	GRADIENT	-.00036	-.00075	-.00036	.00037	-.00004	-.00008	-.00027	-.00073	.04687	.00398

RUN NO. 53/ 0 RN/L = 3.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.618	-1.934	.00160	.05630	1.00150	.94820	1.00030	1.01570	1.10090	.05870	-.43910	-.23560
.618	.172	.00150	.04940	1.00150	.95440	1.00030	1.01380	1.10070	.05180	-.38310	-.23750
.622	2.116	.00310	.05430	1.00300	.95130	1.00070	1.01540	1.10380	.05690	-.25670	-.19250
.619	4.242	.00220	.05410	1.00210	.95070	1.00050	1.01510	1.10170	.05650	-.18540	-.18380
.619	6.277	.00060	.04770	1.00070	.95510	1.00010	1.01350	1.10030	.05010	-.07010	-.18050
.620	8.373	.00120	.05070	1.00120	.95300	1.00030	1.01430	1.10130	.05310	.01300	-.17160
.619	10.429	.00210	.04520	1.00210	.95880	1.00050	1.01280	1.10190	.04760	.10740	-.18470
.620	12.454	.00310	.04850	1.00300	.95660	1.00070	1.01380	1.10320	.05110	.20660	-.18830
.619	16.544	-.00090	.05470	.99920	.94730	.99980	1.01530	1.09870	.05700	.38820	-.17940
	GRADIENT	.00016	-.00010	.00016	.00022	.00005	-.00001	.00026	-.00009	.04324	.00972

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(FNL108) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPGAP = .000
 PHI-N = -90.000

RUN NO. 56/ 0 RN/L = 2.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.401	-1.944	.00390	.01670	1.00390	.98740	1.00040	1.00190	1.04490	.01710	-.28600	.03400
.401	.233	.00200	.02900	1.00200	.97380	1.00020	1.00330	1.04280	.02940	-.25620	-.05440
.400	2.177	.00530	.04070	1.00520	.96590	1.00050	1.00460	1.04600	.04090	-.25350	-.15940
.400	4.252	.00470	.04670	1.00460	.95980	1.00050	1.00520	1.04540	.04660	-.27380	-.25370
.401	6.277	.00330	.04620	1.00330	.95890	1.00030	1.00520	1.04430	.04620	-.25850	-.37570
.401	8.282	.00200	.03070	1.00200	.97210	1.00020	1.00350	1.04280	.03110	-.26300	-.45450
.402	10.378	.00260	.02620	1.00260	.97710	1.00030	1.00300	1.04370	.02660	-.25800	-.54750
.402	12.433	.00380	-.00710	1.00390	1.01110	1.00040	.99920	1.04510	-.00750	-.25790	-.60880
.401	16.524	.00120	-.04660	1.00140	1.05030	1.00010	.99430	1.04220	-.05090	-.25370	-.75630
.401	20.594	-.00120	-.08830	.99880	1.09560	.99990	.98870	1.03950	-.10070	-.23440	-.84740
.401	24.685	-.00660	-.13610	.99250	1.14870	.99920	.98170	1.03300	-.16270	-.22690	-.87610
	GRADIENT	.00027	.00495	.00025	-.00443	.00003	.00055	.00022	.00487	.00198	-.04710

RUN NO. 55/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.620	-1.934	.00150	.02290	1.00150	.97910	1.00030	1.00660	1.10140	.02460	-.19280	.13090
.618	.111	.00180	.03700	1.00180	.96610	1.00040	1.01050	1.10110	.03930	-.18600	.02040
.619	2.258	.00250	.04700	1.00240	.95740	1.00050	1.01330	1.10200	.04950	-.17230	-.05570
.618	4.273	.00340	.04610	1.00330	.95910	1.00070	1.01300	1.10280	.04860	-.16760	-.13620
.618	6.348	.00370	.05000	1.00360	.95590	1.00080	1.01400	1.10320	.05250	-.15200	-.24740
.618	8.404	.00340	.0410	1.00330	.96370	1.00070	1.01160	1.10290	.04350	-.15210	-.35450
.618	10.419	.00000	.02650	1.00010	.97420	1.00000	1.00760	1.09910	.02840	-.15690	-.44850
.619	12.363	.00180	.00770	1.00180	.99420	1.00040	1.00230	1.10140	.00840	-.13190	-.53110
.617	16.575	.00060	-.05550	1.00070	1.05950	1.00010	.98280	1.09950	-.06460	-.13910	-.70850
	GRADIENT	.00031	.00384	.00029	-.00332	.00006	.00106	.00025	.00397	.00431	-.04223

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(FNL109) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPBGAP = .000
 PHI-N = 180.000

RUN NO. 57/ 0 RN/L = 2.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.402	-1.883	.00260	.03850	1.00270	.96550	1.00030	1.00440	1.04370	.03870	.01630	-.29140
.400	.142	.00330	.04380	1.00330	.96120	1.00030	1.00490	1.04410	.04380	-.05220	-.28240
.400	2.227	.00130	.04150	1.00140	.96150	1.00010	1.00470	1.04210	.04150	-.15200	-.28740
.401	4.232	.00470	.04650	1.00460	.95990	1.00050	1.00520	1.04550	.04650	-.23090	-.28280
.400	6.237	.00200	.04770	1.00200	.95640	1.00020	1.00530	1.04280	.04750	-.34070	-.27140
.401	8.252	.00200	.04930	1.00200	.95490	1.00020	1.00550	1.04300	.04900	-.42970	-.27510
.400	10.287	.00730	.04670	1.00710	.96220	1.00070	1.00520	1.04810	.04680	-.50010	-.28510
.400	12.353	.00270	.04460	1.00270	.95980	1.00030	1.00500	1.04340	.04460	-.59670	-.28820
.401	16.463	.00200	.05990	1.00200	.94540	1.00020	1.00660	1.04300	.05890	-.73410	-.29310
	GRADIENT	.00021	.00106	.00018	-.00081	.00002	.00011	.00016	.00103	-.04119	.00101

ARC 150-1-14(OA220) TPS(MOD)+ADP+NOSE BOOM

(FNL110) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPBGAP = .000
 PHI-N = 180.000

RUN NO. 58/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.622	-1.954	.00210	.05380	1.00210	.95100	1.00050	1.01530	1.10290	.05630	.17110	-.13890
.620	.152	.00400	.04950	1.00390	.95650	1.00090	1.01400	1.10420	.05210	.06090	-.14940
.620	2.146	.00310	.04570	1.00300	.95920	1.00070	1.01290	1.10300	.04820	-.03560	-.15540
.620	4.212	.00030	.04830	1.00040	.95430	1.00010	1.01360	1.10020	.05070	-.12400	-.16660
.620	6.257	.00250	.04670	1.00240	.95770	1.00050	1.01320	1.10240	.04920	-.22090	-.15880
.620	8.323	.00400	.04990	1.00390	.95620	1.00090	1.01410	1.10410	.05250	-.31540	-.19020
.621	10.368	.00090	.05760	1.00090	.94650	1.00020	1.01620	1.10110	.05990	-.40740	-.19920
.620	12.383	.00280	.05950	1.00270	.94640	1.00060	1.01660	1.10270	.06190	-.48100	-.20310
.619	16.564	.00310	.06990	1.00300	.93750	1.00070	1.01930	1.10270	.07200	-.64590	-.20500
	GRADIENT	-.00030	-.00099	-.00029	.00062	-.00007	-.00030	-.00045	-.00101	-.04792	-.00435

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(FNL111) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPSPGAP = .010
 PHI-N = .000

RUN NO. 10/ 0 RN/L = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.293	-2.167	.00470	.06070	1.00450	.94700	1.00030	1.00370	1.02720	.05880	-.51140	-.29910
.299	-.061	.00240	.06140	1.00230	.94440	1.00010	1.00370	1.02480	.05920	-.46210	-.30450
.299	1.984	.00120	.06080	1.00120	.94390	1.00010	1.00370	1.02370	.05860	-.38220	-.29080
.297	3.979	.00120	.04810	1.00120	.95530	1.00010	1.00290	1.02340	.04700	-.32020	-.32130
.298	6.024	.00120	.06150	1.00120	.94320	1.00010	1.00370	1.02360	.05930	-.20810	-.29990
.299	8.049	.00230	.05560	1.00230	.94960	1.00010	1.00340	1.02490	.05390	-.12370	-.30310
.299	10.135	.00230	.05860	1.00230	.94680	1.00010	1.00360	1.02500	.05680	-.02790	-.30730
.299	12.120	.00350	.05610	1.00340	.95020	1.00020	1.00340	1.02590	.05450	.04650	-.30510
.299	16.220	.00120	.06130	1.00120	.94340	1.00010	1.00370	1.02370	.05910	.21480	-.30090
.299	20.230	.00000	.06400	1.00010	.93990	1.00000	1.00380	1.02250	.06150	.39900	-.29310
.298	24.351	-.00830	.05740	.99230	.93840	.99950	1.00340	1.01440	.05510	.55680	-.30100
GRADIENT		-.00057	-.00186	-.00054	.00117	-.00003	-.00012	-.00061	-.00174	.03188	-.00255

RUN NO. 11/ 0 RN/L = 2.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.402	-2.126	-.00070	.05220	.99940	.94990	.99990	1.00580	1.04050	.05160	-.57280	-.32210
.401	-.101	.00200	.04840	1.00200	.95570	1.00020	1.00540	1.04290	.04820	-.46640	-.31340
.401	1.934	.00470	.05510	1.00460	.95210	1.00050	1.00610	1.04560	.05460	-.36900	-.29050
.401	3.969	.00470	.04950	1.00460	.95720	1.00050	1.00550	1.04560	.04930	-.27770	-.27640
.400	5.974	.00400	.04410	1.00390	.96150	1.00040	1.00490	1.04480	.04410	-.18710	-.31780
.402	8.090	.00270	.05320	1.00260	.95200	1.00030	1.00600	1.04370	.05280	-.10990	-.31360
.401	10.105	.00130	.04930	1.00140	.95440	1.00010	1.00550	1.04220	.04890	.00150	-.32430
.401	12.160	.00200	.04620	1.00200	.95780	1.00020	1.00520	1.04290	.04600	.10190	-.31130
.400	16.251	.00340	.05080	1.00330	.95470	1.00030	1.00570	1.04410	.05050	.28660	-.30790
.402	20.270	-.00340	.06710	.99690	.93420	.99970	1.00740	1.03790	.06530	.44100	-.28750
.402	24.391	-.00880	.05830	.99180	.93720	.99910	1.00640	1.03240	.05690	.59540	-.26870
GRADIENT		.00093	-.00007	.00090	.00090	.00010	-.00001	.00099	-.00002	.04836	.00787

ORIGINAL PAGE IS
 OF POOR QUALITY

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(FNL111) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPSPGAP = .010
 PHI-N = .000

RUN NO. 12/ 0 RN/L = 3.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.500	-2.116	.00320	.05660	1.00310	.94940	1.00050	1.01000	1.06730	.05710	-.51070	-.29910
.499	-.091	.00360	.04920	1.00350	.95650	1.00050	1.00870	1.06750	.05000	-.44200	-.30430
.500	1.934	.00540	.05400	1.00520	.95380	1.00080	1.00960	1.06970	.05480	-.34480	-.25490
.499	3.989	.00310	.04590	1.00310	.95900	1.00050	1.00820	1.06710	.04680	-.26420	-.26140
.500	5.994	.00310	.05080	1.00310	.95460	1.00050	1.00900	1.06740	.05160	-.15960	-.27180
.500	8.009	.00040	.04600	1.00050	.95650	1.00010	1.00820	1.06450	.04680	-.08240	-.26690
.500	10.105	.00400	.05140	1.00390	.95480	1.00060	1.00910	1.06830	.05220	.01660	-.26630
.499	12.160	.00000	.04980	1.00010	.95260	1.00000	1.00880	1.06370	.05050	.12180	-.25250
.499	16.281	.00220	.05060	1.00220	.95390	1.00030	1.00900	1.06620	.05140	.30730	-.27050
.498	20.361	-.00090	.06350	.99920	.93960	.99990	1.01100	1.06270	.06340	.48690	-.26270
.498	24.482	-.00780	.06510	.99280	.93220	.99990	1.01120	1.05600	.06450	.62700	-.24060
GRADIENT		.00007	-.00134	.00008	.00128	.00001	-.00022	.00008	-.00129	.04113	.00798

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.621	-2.157	.00090	.05760	1.00100	.94650	1.00020	1.01620	1.10120	.05990	-.43530	-.21130
.621	-.132	.00310	.05500	1.00300	.95070	1.00070	1.01550	1.10340	.05750	-.36630	-.22900
.622	1.924	.00090	.05570	1.00100	.94810	1.00020	1.01580	1.10170	.05810	-.27850	-.19510
.621	4.009	.00030	.05210	1.00040	.95090	1.00010	1.01470	1.10050	.05450	-.17540	-.17870
.621	6.024	.00210	.05100	1.00210	.95350	1.00050	1.01450	1.10260	.05350	-.07450	-.17870
.622	8.059	.00180	.05030	1.00180	.95380	1.00040	1.01430	1.10240	.05280	.00000	-.17050
.621	10.145	.00150	.04790	1.00150	.95580	1.00030	1.01360	1.10180	.05040	.12880	-.17460
.620	12.201	.00250	.04930	1.00240	.95530	1.00050	1.01390	1.10240	.05180	.20340	-.18110
.620	16.362	-.00030	.05320	.99980	.94930	.99990	1.01490	1.09950	.05550	.37810	-.17660
.618	20.412	-.00220	.07040	.99800	.93230	.99950	1.01930	1.09710	.07220	.55660	-.17070
.617	24.543	-.00730	.06570	.99330	.93210	.99850	1.01790	1.09140	.06720	.70930	-.14600
GRADIENT		-.00020	-.00077	-.00019	.00051	-.00004	-.00020	-.00019	-.00076	.04223	.00643

DATE 27 MAY 76

TABULATED SOURCE DATA - OA270

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(FNL111) (12 FEB 76)

PAPAMETRIC DATA

BETA = .000 TPSGAP = .010
 PHI-N = .000

RUN NO. 14/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.701	-2.167	.00310	.06590	1.00300	.94090	1.00080	1.02400	1.13210	.07000	-.36400	-.12380
.699	-.061	.00280	.05610	1.00270	.94950	1.00070	1.02050	1.13110	.06010	-.30120	-.11730
.699	1.863	.00230	.05720	1.00220	.94800	1.00060	1.02090	1.13070	.06120	-.20270	-.11560
.702	4.020	.00350	.05850	1.00340	.94800	1.00090	1.02160	1.13330	.06270	-.09840	-.10670
.697	6.116	.00310	.05900	1.00300	.94710	1.00080	1.02140	1.13080	.06300	-.00380	-.09950
.697	8.151	.00150	.05550	1.00150	.94880	1.00040	1.02020	1.12930	.05940	.07170	-.10200
.698	10.186	.00150	.05360	1.00150	.95060	1.00040	1.01960	1.12940	.05750	.15950	-.10650
.706	12.231	.00300	.05440	1.00200	.95120	1.00080	1.02040	1.13430	.05850	.28180	-.08700
.698	16.392	.00230	.06550	1.00220	.94060	1.00060	1.02370	1.13040	.06950	.44400	-.09710
.695	20.412	-.00050	.07400	.99960	.93070	.99990	1.02630	1.12630	.07760	.59800	-.11700
.697	24.614	-.00440	.07080	.99600	.93020	.99890	1.02530	1.12310	.07420	.75260	-.10810
	GRADIENT	.00004	-.00103	.00004	.00097	.00001	-.00033	.00016	-.00102	.04369	.00260

RUN NO. 16/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.900	-2.197	.00140	.08420	1.00140	.92370	1.00050	1.05380	1.22110	.09480	-.05080	.17200
.900	-.071	.00160	.08100	1.00160	.92550	1.00050	1.05190	1.22110	.09150	.03380	.19320
.901	1.994	.00140	.08160	1.00140	.92580	1.00050	1.05240	1.22150	.09220	.12600	.19020
.899	4.070	.00160	.07770	1.00160	.92940	1.00060	1.04980	1.22060	.08900	.20100	.19840
.898	6.116	.00120	.07890	1.00120	.92800	1.00050	1.05040	1.21990	.08920	.27800	.19340
.898	8.211	.00180	.08010	1.00170	.92740	1.00070	1.05110	1.22030	.09050	.35170	.19890
.899	10.378	.00040	.08240	1.00040	.92420	1.00010	1.05250	1.21910	.09280	.42740	.19020
.896	12.383	.00050	.08390	1.00060	.92310	1.00020	1.05300	1.21790	.09430	.50750	.19330
.901	16.595	.00090	.09370	1.00090	.91520	1.00030	1.05940	1.22080	.10460	.65170	.18020
.903	20.837	-.00090	.11880	.99930	.89320	.99970	1.07400	1.22010	.12960	.78390	.17580
.698	24.897	-.00570	.11800	.99500	.88990	.99790	1.07220	1.21200	.12800	.90700	.13220
	GRADIENT	.00002	-.00091	.00002	.00079	.00001	-.00055	-.00005	-.00095	.04063	.00414

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(FNL111) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .010
 PHI-N = .000

RUN NO. 15/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.980	-2.217	.00210	.11140	1.00200	.90150	1.00090	1.08540	1.26620	.12700	.08720	.30150
.979	-.162	.00190	.10490	1.00180	.90680	1.00080	1.08050	1.26520	.12010	.16840	.30340
.977	1.995	.00100	.10430	1.00100	.90640	1.00040	1.07970	1.26330	.11930	.24240	.31160
.976	4.101	.00130	.10510	1.00130	.90600	1.00050	1.08010	1.26290	.12010	.30970	.30760
.972	6.085	.00190	.09580	1.00190	.91430	1.00080	1.07290	1.26140	.11020	.38820	.29560
.972	8.333	.00260	.10070	1.00240	.91070	1.00110	1.07640	1.26230	.11550	.45780	.29690
.973	10.287	.00050	.10350	1.00050	.90670	1.00020	1.07830	1.26020	.11820	.52610	.30280
.971	12.444	.00230	.10440	1.00220	.90750	1.00090	1.07870	1.26130	.11920	.59070	.29600
.973	16.726	.00050	.12240	1.00050	.89140	1.00020	1.09110	1.26030	.13750	.72690	.27880
.965	20.787	-.00100	.13780	.99920	.87820	.99960	1.09900	1.25400	.15190	.83890	.25150
.959	25.009	-.00790	.13520	.99320	.87490	.99690	1.09520	1.24270	.14800	.96720	.22540
GRADIENT		-.00016	-.00092	-.00014	.00062	-.00008	-.00079	-.00056	-.00101	.03511	.00126

ARC 150-1-14(OA220) TPS+ADP+NOSE BOOM

(FNL112) (12 FEB 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .010
 PHI-N = .000

RUN NO. 17/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.302	-2.167	.00340	.05560	1.00340	.95050	1.00020	1.00340	1.02640	.05410	-.52630	-.28900
.302	-.091	.00680	.04670	1.00660	.96170	1.00040	1.00290	1.02970	.04600	-.46220	-.29930
.302	1.974	.00230	.05930	1.00230	.94620	1.00010	1.00370	1.02530	.05740	-.36580	-.30090
.303	3.959	.00690	.05900	1.00690	.95050	1.00040	1.00370	1.02980	.05740	-.31230	-.28890
.303	5.964	.00570	.05870	1.00550	.94980	1.00030	1.00370	1.02980	.05700	-.22040	-.29220
.304	8.019	.00340	.06700	1.00330	.94030	1.00020	1.00420	1.02670	.06450	-.12440	-.28040
.303	10.014	.00460	.05520	1.00440	.95180	1.00030	1.00340	1.02760	.05380	-.02870	-.30390
.302	12.059	.00230	.05800	1.00230	.94730	1.00010	1.00360	1.02530	.05620	.04600	-.30090
.302	16.190	.00350	.06120	1.00340	.94550	1.00020	1.00380	1.02640	.05920	.22880	-.29950
.301	20.179	-.00120	.06580	.99900	.93730	.99990	1.00400	1.02180	.06310	.40190	-.28200
.302	24.280	-.00580	.05610	.99470	.94180	.99970	1.00340	1.01750	.05410	.55650	-.27610
GRADIENT		.00029	.00111	.00026	-.00076	.00001	.00008	.00028	.00104	.03614	-.00009

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(FNL113) (12 FEB 76)

PARAMETRIC DATA

BETA = -2.000 TPSPGAP = .010
 PHI-N = .000

RUN NO. 18/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.303	-2.238	.00120	.06340	1.00120	.94150	1.00010	1.00390	1.02430	.06110	-.51160	-.35700
.301	-.263	.00230	.05400	1.00230	.95100	1.00010	1.00330	1.02520	.05250	-.46080	-.39020
.302	1.772	.00340	.04800	1.00340	.95740	1.00020	1.00300	1.02640	.04700	-.38150	-.39380
.300	3.756	.00350	.05400	1.00340	.95200	1.00020	1.00330	1.02620	.05260	-.29910	-.39150
.302	5.802	.00460	.05360	1.00450	.95340	1.00030	1.00330	1.02750	.05230	-.22220	-.39420
.303	7.877	.00230	.05770	1.00230	.94760	1.00010	1.00360	1.02550	.05590	-.13500	-.37810
.302	9.912	.00110	.04920	1.00110	.95430	1.00010	1.00310	1.02420	.04800	-.03990	-.39830
.301	11.897	.00460	.04630	1.00450	.96000	1.00030	1.00290	1.02740	.04550	.04150	-.39430
.302	15.957	.00110	.05460	1.00120	.94920	1.00010	1.00340	1.02420	.05320	.21350	-.41730
.303	20.078	-.00230	.05330	.99790	.94740	.99990	1.00330	1.02090	.05170	.40410	-.37280
.302	24.158	-.00920	.04970	.99140	.94450	.99950	1.00310	1.01410	.04800	.55990	-.35200
	GRADIENT	.00040	-.00171	.00038	.00189	.00002	-.00010	.00035	-.00155	.03582	-.00534

RUN NO. 19/ 0 RN/L = 2.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.400	-2.268	.00330	.04870	1.00330	.95670	1.00030	1.00540	1.04410	.04850	-.56390	-.40920
.401	-.213	.00270	.04630	1.00260	.95830	1.00030	1.00520	1.04360	.04610	-.48430	-.40080
.401	1.853	-.00070	.05090	.99940	.95100	.99990	1.00570	1.04030	.05040	-.40640	-.39720
.401	3.898	.00000	.04690	1.00010	.95530	1.00000	1.00530	1.04100	.04670	-.30110	-.41720
.400	5.923	.00530	.04320	1.00520	.96360	1.00050	1.00490	1.04610	.04330	-.21590	-.41260
.401	7.897	.00000	.04280	1.00580	.96450	1.00060	1.00480	1.04680	.04300	-.09030	-.38780
.400	9.912	.00070	.04720	1.00070	.95560	1.00010	1.00530	1.04140	.04700	-.01150	-.40490
.401	11.958	.00400	.04730	1.00390	.95860	1.00040	1.00530	1.04480	.04720	.09780	-.39670
.400	16.048	.00130	.04620	1.00140	.95720	1.00010	1.00520	1.04210	.04600	.25360	-.40880
.399	20.098	-.00270	.06110	.99750	.94010	.99970	1.00670	1.03790	.05980	.43450	-.37160
.397	24.189	-.00890	.05050	.99170	.94400	.99910	1.00550	1.03140	.04960	.58450	-.34230
	GRADIENT	-.00065	-.00004	-.00062	-.00056	-.00006	.00001	-.00061	-.00005	.04212	-.00099

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ARC 150-1-14(0A220) TPS+ADP+NOSE BOO

(FNL113) (12 FEB 76)

PARAMETRIC DATA

BETA = -2.000
 PHI-N = .000
 TPSGAP = .010

RUN NO. 20/ 0 RN/L = 3.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.501	-2.258	.00220	.05190	1.00220	.95270	1.00030	1.00920	1.06660	.05270	-.53010	-.38430
.501	-.263	.00220	.04300	1.00220	.96090	1.00030	1.00770	1.06660	.04400	-.44740	-.39150
.501	1.812	.00440	.04810	1.00430	.95820	1.00070	1.00860	1.06900	.04910	-.36340	-.36920
.500	3.837	.00270	.04790	1.00260	.95680	1.00040	1.00850	1.06690	.04870	-.26840	-.36500
.500	5.883	.00220	.04280	1.00220	.96110	1.00030	1.00770	1.06640	.04370	-.17810	-.35370
.500	7.897	.00360	.04580	1.00350	.95960	1.00050	1.00820	1.06780	.04670	-.09080	-.38320
.505	9.892	.00170	.04140	1.00180	.96190	1.00030	1.00760	1.06730	.04250	.00730	-.35830
.505	12.028	.00170	.04690	1.00180	.95690	1.00030	1.00850	1.06730	.04780	.11480	-.34570
.505	16.149	-.00130	.04800	.99880	.95310	.99980	1.00870	1.06420	.04870	.31480	-.35070
.504	20.149	-.00450	.06740	.99550	.93300	.99930	1.01190	1.06080	.06700	.48570	-.33190
.503	24.249	-.00620	.05490	.99420	.94250	.99910	1.00980	1.05370	.05510	.65520	-.32210
	GRADIENT	.00018	-.00033	.00016	.00046	.00003	-.00006	.00016	-.00033	.04268	.00396

RUN NO. 21/ 0 RN/L = 3.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.621	-2.349	.00090	.05350	1.00100	.95010	1.00020	1.01510	1.10120	.05590	-.42700	-.31310
.619	-.314	.00150	.05050	1.00150	.95340	1.00030	1.01420	1.10130	.05290	-.34850	-.29280
.620	1.802	.00000	.05250	1.00010	.95010	1.00000	1.01480	1.09980	.05490	-.25020	-.28500
.619	3.716	.00310	.04720	1.00300	.95780	1.00070	1.01320	1.10290	.04970	-.18200	-.28090
.619	5.802	.00240	.04890	1.00240	.95570	1.00050	1.01380	1.10230	.05140	-.07600	-.26920
.622	7.837	.00240	.05000	1.00240	.95460	1.00050	1.01420	1.10310	.05260	-.00030	-.25870
.620	9.943	.00060	.04260	1.00070	.95970	1.00010	1.01210	1.10070	.04500	.10900	-.28020
.622	12.099	.00150	.05150	1.00150	.95250	1.00030	1.01460	1.10210	.05400	.20580	-.27430
.620	16.038	.00090	.05300	1.00090	.95050	1.00020	1.01490	1.10090	.05550	.36670	-.27320
.619	20.220	-.00220	.06350	.99800	.93850	.99950	1.01760	1.09740	.06550	.53550	-.26770
.619	24.361	-.00840	.06090	.99220	.93530	.99820	1.01680	1.09100	.06260	.70190	-.23040
	GRADIENT	.00024	-.00082	.00022	.00096	.00006	-.00023	.00017	-.00081	.04106	.00516

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(FNL113) (12 FEB 76)

PARAMETRIC DATA

BETA = -2.000 TPSGAP = .010
 PHI-N = .000

RUN NO. 22/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.698	-2.359	.00230	.06210	1.00220	.94370	1.00060	1.02250	1.13030	.06600	-.36060	-.21500
.698	-.213	.00130	.05980	1.00130	.94480	1.00030	1.02180	1.12940	.06370	-.27590	-.22990
.700	1.752	.00200	.05250	1.00200	.95200	1.00050	1.01940	1.13080	.05640	-.19460	-.21780
.698	3.898	.00150	.05330	1.00150	.95080	1.00040	1.01950	1.12940	.05720	-.11060	-.21290
.702	5.812	.00400	.05690	1.00390	.94990	1.00110	1.02100	1.13370	.06100	-.00180	-.19430
.701	7.958	.00070	.04750	1.00080	.95540	1.00020	1.01760	1.12980	.05120	.10300	-.18980
.699	9.933	.00400	.05360	1.00390	.95280	1.00110	1.01970	1.13250	.05760	.15890	-.19990
.699	12.059	.00150	.05130	1.00150	.95270	1.00040	1.01890	1.13000	.05510	.26070	-.18700
.699	16.170	.00230	.05790	1.00220	.94740	1.00060	1.02120	1.13080	.06190	.44780	-.19390
.702	20.230	-.00280	.06070	.99750	.94040	.99930	1.02230	1.12670	.06440	.60970	-.19760
.701	24.432	-.00630	.05750	.99410	.94010	.99830	1.02100	1.12250	.06100	.74530	-.18610
GRADIENT		-.00008	-.00161	-.00007	.00136	-.00002	-.00055	-.00007	-.00161	.04008	.00086

ARC 150-1-14(0A220) TPS+ADP+NOSE BOOM

(FNL114) (12 FEB 76)

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010
 PHI-N = .000

RUN NO. 23/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.303	-2.389	.00450	.05490	1.00440	.95210	1.00030	1.00340	1.02770	.05350	-.54690	-.21210
.302	-.314	.00110	.04830	1.00120	.95510	1.00010	1.00300	1.02420	.04720	-.47490	-.22430
.301	1.610	.00000	.04090	1.00010	.95080	1.00000	1.00260	1.02300	.04020	-.41030	-.22390
.301	3.716	.00450	.04690	1.00450	.95950	1.00030	1.00290	1.02740	.04600	-.31620	-.21350
.302	5.792	.00450	.04790	1.00450	.95860	1.00030	1.00300	1.02750	.04700	-.21510	-.22060
.302	7.695	-.00230	.04700	.99800	.95310	.99990	1.00290	1.02090	.04590	-.14240	-.22120
.303	9.811	.00670	.04840	1.00660	.96020	1.00040	1.00310	1.02990	.04750	-.05780	-.20130
.303	11.877	-.00110	.05370	.99910	.94810	.99990	1.00330	1.02210	.05210	.03160	-.19680
.303	15.916	.00570	.06200	1.00550	.94680	1.00030	1.00390	1.02880	.06010	.19970	-.21540
.302	19.967	-.00350	.06750	.99690	.93380	.99980	1.00410	1.01980	.06450	.40190	-.19710
.302	24.057	-.00910	.04470	.99150	.94900	.99950	1.00280	1.01430	.04340	.56150	-.19320
GRADIENT		-.00005	-.00153	-.00000	.00137	-.00000	-.00009	-.00010	-.00144	.03741	-.00018

PARAMETRIC DATA

BETA = 2.000 TP\$GAP = .010
 PHI-N = .000

RUN NO. 24/ 0		RN/L = 2.66		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.400	-2.460	.00330	.04700	1.00330	.95820	1.00030	1.00520	1.04400	.04690	-.58240	-.21850
.401	-.273	.00460	.04850	1.00450	.95810	1.00050	1.00540	1.04560	.04840	-.46640	-.20760
.401	1.681	.00070	.04080	1.00070	.96150	1.00010	1.00460	1.04150	.04080	-.38470	-.19270
.402	3.716	.00200	.04940	1.00200	.95480	1.00020	1.00560	1.04310	.04910	-.29000	-.20420
.401	5.771	.00270	.04580	1.00260	.95880	1.00030	1.00510	1.04350	.04570	-.21680	-.23210
.402	7.786	.00200	.04760	1.00200	.95650	1.00020	1.00540	1.04310	.04740	-.11490	-.22840
.401	9.842	.00270	.05000	1.00260	.95490	1.00030	1.00550	1.04360	.04970	-.01080	-.20510
.401	11.836	.00400	.04710	1.00390	.95870	1.00040	1.00530	1.04490	.04700	.07410	-.22620
.402	15.927	.00200	.05060	1.00200	.95370	1.00020	1.00570	1.04310	.05020	.26370	-.21260
.401	19.997	-.00270	.06020	.99760	.94100	.99970	1.00660	1.03820	.05890	.42020	-.19790
.400	24.016	-.00080	.05860	.99180	.93690	.99910	1.00640	1.03210	.05710	.58330	-.17600
	GRADIENT	-.00037	-.00002	-.00037	-.00033	-.00003	.00002	-.00032	-.00004	.04686	.00284

RUN NO. 25/ 0		RN/L = 3.15		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.502	-2.481	-.00220	.05280	.99800	.94790	.99970	1.00940	1.06240	.05330	-.53780	-.20560
.501	-.294	.00270	.05230	1.00260	.95280	1.00040	1.00930	1.06720	.05310	-.45430	-.20140
.502	1.721	.00490	.05340	1.00470	.95380	1.00070	1.00960	1.06970	.05420	-.35120	-.18580
.502	3.655	.00220	.05100	1.00220	.95350	1.00030	1.00920	1.06700	.05180	-.26530	-.17640
.501	5.761	.00220	.04690	1.00220	.95730	1.00030	1.00840	1.06660	.04780	-.17230	-.16550
.501	7.786	.00090	.04880	1.00090	.95440	1.00010	1.00870	1.06540	.04950	-.08220	-.17300
.501	9.852	.00180	.04770	1.00180	.95620	1.00030	1.00850	1.06610	.04860	.00660	-.17100
.501	11.927	.00220	.04510	1.00220	.95890	1.00030	1.00810	1.06660	.04610	.10920	-.15590
.500	15.876	.00090	.04850	1.00090	.95460	1.00010	1.00860	1.06510	.04930	.28580	-.17230
.499	24.118	-.00780	.06700	.99290	.93050	.99890	1.01160	1.05620	.06630	.63020	-.16480
	GRADIENT	.00078	-.00021	.00074	.00089	.00011	-.00001	.00082	-.00016	.04503	.00503

RUN NO. 26/ 0		RN/L = 3.60		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	PTFDEC	PMFDEC	Q*F/QC	QCF/QC	PTF/PT	PMF/P	CPTB	CPSB	CPAB	CPBB
.621	-2.440	.00190	.05940	1.00180	.94560	1.00040	1.01670	1.10210	.06180	-.44650	-.09670
.620	-.334	.00180	.05290	1.00180	.95150	1.00040	1.01490	1.10180	.05540	-.38350	-.13210
.621	1.721	.00030	.05700	1.00040	.94640	1.00010	1.01600	1.10050	.05940	-.27750	-.09840
.621	3.756	.00240	.04470	1.00240	.95950	1.00050	1.01270	1.10280	.04720	-.19400	-.08580
.620	5.761	.00030	.04530	1.00040	.95700	1.00010	1.01280	1.10030	.04770	-.08250	-.08610
.620	7.776	.00330	.04590	1.00330	.95920	1.00070	1.01310	1.10350	.04850	-.02840	-.06790
.619	9.892	.00240	.04660	1.00240	.95780	1.00050	1.01310	1.10200	.04900	.09210	-.08220
.620	11.846	.00280	.04820	1.00270	.95660	1.00060	1.01360	1.10270	.05070	.16220	-.07720
.619	16.018	.00000	.05370	1.00010	.94910	1.00000	1.01500	1.09970	.05600	.35590	-.07700
.621	20.088	-.00370	.06460	.99660	.93610	.99720	1.01800	1.09650	.06660	.53930	-.09590
.622	24.179	-.00840	.06590	.99230	.93090	.99820	1.01830	1.09190	.06750	.67730	-.07040
	GRADIENT	-.00000	-.00193	.00002	.00177	-.00000	-.00053	.00004	-.00192	.04180	.00317

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ARC 150-1-14(0A220) TPS

(XNLP01) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSPAP = .010

MACH (1) = .399 ALPHA (1) = -2.136 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0217 -.2037 .0328 .0778 .0946 .1074 .1148 .1134 .3789 -.2224 -.0008 -.0303 .0200 .0194 .0395

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0402 .3237 -.0297 -.0189 -.0794 -.0841 -.1633 -.2070 -.2050 -.1983 .6226 .6628 .6541 .2975 .2948

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2995 -.0418 -.0478 -.0518 -.0478 -.1210 -.1076 .0389 .0241 .0347 .0113

MACH (1) = .397 ALPHA (2) = -.111 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0361 -.1449 .0729 .1067 .1094 .1223 .1236 .1290 .3285 -.1752 .0188 -.0129 .0229 .0384 .0465

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0458 .2552 -.0312 -.0116 -.0704 -.0744 -.1568 -.1987 -.2041 -.1872 .5695 .6106 .5655 .2703 .2635

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2568 -.0123 -.0271 -.0352 -.0197 -.1075 -.1008 .0493 .0385 .0511 .0282

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OF POOR QUALITY

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (1) = .398 ALPHA (3) = 1.924 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .10396 -.0699 .1017 .1286 .1333 .1333 .1333 .1407 .2751 -.1263 .0486 .0122 .0472 .0479 .0681

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0647 .2256 .0034 .0149 -.0497 -.0511 -.1265 -.1655 -.1669 -.1635 .5053 .5919 .5167 .2351 .2331

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2337 .0102 .0019 -.0095 .0168 -.0634 -.0614 .0794 .0639 .0764 .0529

MACH (1) = .399 ALPHA (4) = 3.969 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0404 -.0309 .1130 .1278 .1244 .1210 .1237 .1352 .2051 -.0858 .0450 -.0061 .0362 .0342 .0604

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0524 .1491 -.0189 -.0068 -.0659 -.0606 -.1459 -.1916 -.1910 -.1795 .4552 .5464 .4445 .1816 .1735

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1735 -.0041 -.0128 -.0397 .0000 -.0727 -.0754 .0666 .0511 .0684 .0335

MACH (1) = .401 ALPHA (5) = 5.994 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0350 .0471 .1367 .1440 .1407 .1161 .1327 .1354 .1663 -.0151 .0561 .0009 .0627 .0461 .0687

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0554 .1377 .0029 .0049 -.0396 -.0442 -.1219 -.1717 -.1744 -.1658 .4331 .4384 .4040 .1527 .1520

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (1) = .401 ALPHA (5) = 5.994

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1527 .0248 .0038 -.0134 .0145 -.0367 -.0440 .0869 .0703 .0855 .0590

MACH (1) = .402 ALPHA (6) = 8.090 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0147 .1209 .1274 .1586 .1294 .1267 .1373 .1354 .1110 .0371 .0678 .0055 .0618 .0486 .0751

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0559 .1029 .0082 .0168 -.0335 -.0322 -.1090 -.1560 -.1666 -.1527 .3869 .4140 .3744 .1241 .1234

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1221 .0234 .0120 -.0032 .0180 -.0258 -.0351 .0929 .0797 .0932 .0668

MACH (1) = .400 ALPHA (7) = 10.064 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9928 .1666 .1221 .1374 .1214 .1101 .0767 .1061 .0588 .0901 .0587 -.0087 .0460 .0280 .0567

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0400 .0581 -.0027 .0020 -.0380 -.0467 -.1194 -.1668 -.1681 -.1554 .3449 .3828 .3342 .0834 .0874

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0861 .0154 -.0033 .0000 .0134 -.0347 -.0407 .0921 .0641 .0761 .0535

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (1) = .401 ALPHA (8) = 12.140 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9512 .2464 .1122 .1329 .0982 .0796 .0876 .0862 .0127 .1541 .0358 -.0235 .0557 .0224 .0431

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0244 .0045 -.0028 -.0082 -.0435 -.0494 -.1220 -.1666 -.1746 -.1606 .3220 .3818 .3041 .0603 .0576

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0569 .0025 -.0130 -.0137 .0050 -.0457 -.0443 .0809 .0596 .0625 .0353

MACH (1) = .401 ALPHA (9) = 16.210 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8392 .3693 .0644 .0737 .0518 .0332 .0372 .0345 -.0833 .2522 -.0177 -.0754 .0135 .0009 -.0037

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0217 -.0887 -.0237 -.0290 -.0635 -.0615 -.1292 -.1783 -.1949 -.1763 .2965 .3025 .3144 .0007 -.0033

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0020 -.0363 -.0524 -.0491 -.0166 -.0571 -.0630 .0438 .0326 .0272 .0047

MACH (1) = .400 ALPHA (10) = 20.371 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .6924 .4943 -.0160 -.0054 -.0100 -.0494 -.0300 -.0440 -.1770 .3807 -.1083 -.1563 -.0362 -.0736 -.0596

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0909 -.1623 -.0649 -.0743 -.0856 -.0889 -.1603 -.2103 -.2350 -.2070 .2451 .1952 .2285 -.0447 -.0474

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (1) = .400 ALPHA (10) = 20.371

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0420 -.1036 -.1087 -.0927 -.0554 -.0960 -.0994 -.0034 -.0180 -.0394 -.0594

MACH (1) = .400 ALPHA (11) = 24.442 RN/L = 2.5679 Q(PSF) = 212.73 P = 1899.5 PO = 2120.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .5125 .6070 -.1337 -.1117 -.1043 -.1491 -.1257 -.1524 -.2492 .4866 -.2077 -.2718 -.1216 -.1397 -.1383

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1710 -.2217 -.1130 -.1270 -.1290 -.1283 -.1964 -.2437 -.2664 -.2471 .1613 .1207 .1413 -.0836 -.0843

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0850 -.1730 -.1818 -.1450 -.1090 -.1424 -.1511 -.0696 -.0823 -.1254 -.1407

MACH (2) = .622 ALPHA (1) = -2.227 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0870 -.1952 .0431 .0827 .1094 .1320 .1346 .1388 .4040 -.2218 .0036 -.0235 .0245 .0287 .0486

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0461 .3472 -.0306 -.0161 -.0808 -.0815 -.1720 -.2248 -.2225 -.2058 .5995 .6233 .5831 .3195 .3266

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3211 -.0315 -.0423 -.0475 -.0314 -.1296 -.1135 .0424 .0289 .0574 .0279

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (2) = .622 ALPHA (2) = -.142 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0980	-.1414	.0927	-.1304	.1329	.1265	.1416	.1551	.3411	-.1789	.0285	-.0002	.0372	.0275	.0552
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0549	.2957	-.0240	-.0040	-.0710	-.0710	-.1657	-.2094	-.2094	-.1962	.5702	.5924	.5410	.2758	.2693
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2796	-.0108	-.0202	-.0083	-.0038	-.1064	-.0977	.0625	.0474	.0678	.0373				

MACH (2) = .622 ALPHA (3) = 1.883 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0992	-.0642	.0977	.1392	.1360	.1395	.1473	.1531	.2943	-.1265	.0422	.0136	.0557	.0374	.0728
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0744	.2527	-.0067	.0100	-.0543	-.0550	-.1467	-.1899	-.1953	-.1873	.5498	.5629	.5494	.2374	.2377
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2535	.0120	.0011	-.0008	.0166	-.0845	-.0729	.0745	.0552	.0783	.0536				

MACH (2) = .622 ALPHA (4) = 3.939 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0993	-.0020	.1180	.1608	.1518	.1489	.1589	.1543	.2333	-.0735	.0653	.0251	.0630	.0511	.0836
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0746	.1938	.0007	.0154	-.0453	-.0466	-.1308	-.1790	-.1861	-.1681	.5134	.5333	.4842	.2036	.2000

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (2) = .622 ALPHA (4) = 3.939

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2003 .0296 .0042 .0064 .0247 -.0637 -.0563 .0881 .0736 .0797 .0647

MACH (2) = .621 ALPHA (5) = 5.994 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0962 .0544 .1351 .1628 .1312 .1383 .1402 .1451 .1822 -.0124 .0605 .0183 .0625 .0425 .0802

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0666 .1495 .0109 .0183 -.0432 -.0429 -.1289 -.1699 -.1847 -.1712 .5266 .5044 .4720 .1676 .1602

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1673 .0283 .0133 .0036 .0249 -.0496 -.0502 .0958 .0735 .0907 .0605

MACH (2) = .622 ALPHA (6) = 8.140 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0772 .1320 .1315 .1608 .1337 .1292 .1350 .1399 .1288 .0473 .0560 .0190 .0631 .0409 .0772

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0618 .1007 .0061 .0241 -.0328 -.0335 -.1226 -.1722 -.1799 -.1625 .4914 .4683 .4099 .1309 .1225

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1309 .0248 .0092 .0057 .0211 -.0342 -.0377 .0932 .0720 .0858 .0601

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (2) = .622 ALPHA (7) = 10.206 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0502	.1963	.1446	.1507	.1334	.1224	.0968	.1208	.0759	.1041	.0406	.0020	.0560	.0335	.0720
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0515	.0512	.0043	.0216	-.0313	-.0333	-.1155	-.1672	-.1794	-.1556	.4553	.4467	.3785	.0974	.0916
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0980	.0223	.0059	.0059	.0213	-.0285	-.0313	.0910	.0711	.0762	.0561				

MACH (2) = .623 ALPHA (8) = 12.271 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0142	.2726	.1276	.1478	.1260	.0955	.0849	.1022	.0248	.1744	.0299	-.0073	.0585	.0286	.0623
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0367	.0203	.0072	.0107	-.0355	-.0349	-.1141	-.1674	-.1821	-.1626	.4220	.4213	.3516	.0653	.0583
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0640	.0062	-.0043	-.0075	.0198	-.0309	-.0380	.0872	.0692	.0641	.0427				

MACH (2) = .622 ALPHA (9) = 16.453 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9077	.4096	.0786	.0911	.0645	.0362	.0477	.0471	-.0763	.2875	-.0290	-.0746	.0196	-.0084	.0151
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0132	-.0801	-.0235	-.0232	-.0576	-.0550	-.1276	-.1810	-.2015	-.1700	.3042	.3151	.2657	.0040	-.0021

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (2) = .622 ALPHA (9) = 16.453

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0011 -.0392 -.0535 -.0510 -.0240 -.0577 -.0645 .0465 .0339 .0247 -.0032

MACH (2) = .622 ALPHA (10) = 20.523 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7722 .5291 -.0135 .0126 .0116 -.0238 -.0496 -.0325 -.1686 .4086 -.0910 -.1457 -.0349 -.0575 -.0513

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0906 -.1467 -.0597 -.0597 -.0842 -.0845 -.1583 -.2018 -.2382 -.2018 .2095 .2204 .1838 -.0438 -.0522

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0431 -.1003 -.1117 -.0947 -.0634 -.0831 -.1056 -.0042 -.0216 -.0353 -.0639

MACH (2) = .620 ALPHA (11) = 24.766 RN/L = 3.4546 Q(PSF) = 441.19 P = 1631.1 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .5965 .6497 -.1348 -.1040 -.0917 -.1441 -.1351 -.1409 -.2621 .5210 -.2019 -.2615 -.1036 -.1291 -.1453

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1893 -.2278 -.1211 -.1259 -.1401 -.1343 -.1938 -.2518 -.2863 -.2556 .1567 .1512 .1074 -.0979 -.1030

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0969 -.1893 -.1992 -.1451 -.1299 -.1386 -.1642 -.0817 -.0975 -.1359 -.1543

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (3) = .700 ALPHA (1) = -2.278 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 P0 = 2115.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1143 -.1838 .0694 .1020 .1191 .1418 .1467 .1581 .4207 -.2246 .0185 -.0186 .0340 .0356 .0622

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0627 .3605 -.0268 -.0091 -.0693 -.0777 -.1778 -.2197 -.2263 -.2134 .6531 .6637 .6094 .3332 .3270

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3289 -.0108 -.0284 -.0501 -.0198 -.1209 -.1103 .0594 .0369 .0562 .0346

MACH (3) = .701 ALPHA (2) = -.182 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 P0 = 2115.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1267 -.1171 .1174 .1423 .1374 .1415 .1602 .1726 .3649 -.1659 .0504 .0071 .0547 .0423 .0804

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0769 .3096 -.0143 .0133 -.0595 -.0633 -.1539 -.2046 -.2141 -.1923 .6146 .6440 .5793 .2952 .2911

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2957 .0041 -.0119 .0025 .0122 -.0898 -.0830 .0682 .0544 .0747 .0542

MACH (3) = .700 ALPHA (3) = 1.893 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 P0 = 2115.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1302 -.0529 .1177 .1578 .1543 .1526 .1551 .1721 .3142 -.1055 .0646 .0235 .0690 .0522 .0955

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0887 .2640 .0107 .0216 -.0445 -.0467 -.1356 -.1870 -.1922 -.1732 .5738 .5943 .5632 .2613 .2529

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (3) = .700 ALPHA (3) = 1.893

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2575 .0256 .0060 .0100 .0282 -.0721 -.0621 .0878 .0716 .0862 .0695

MACH (3) = .700 ALPHA (4) = 3.979 RN/L = 3.670 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1289 .0138 .1376 .1791 .1680 .1637 .1422 .1764 .2549 -.0659 .0720 .0313 .0714 .0565 .0980

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0814 .2167 .0237 .0326 -.0335 -.0373 -.1178 -.1699 -.1799 -.1604 .5450 .5707 .5288 .2114 .2106

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2122 .0386 .0227 .0229 .0430 -.0587 -.0465 .0991 .0772 .0971 .0703

MACH (3) = .701 ALPHA (5) = 6.004 RN/L = 3.670 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1235 .0839 .1463 .1925 .1539 .1593 .1650 .1663 .2050 .0042 .0792 .0354 .0811 .0592 .0997

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0851 .1689 .0224 .0340 -.0190 -.0212 -.1098 -.1607 -.1734 -.1463 .5324 .5138 .4731 .1871 .1736

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1820 .0429 .0249 .0241 .0457 -.0322 -.0363 .1041 .0871 .1090 .0856

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (3) = .699 ALPHA (6) = 8.140 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1082	.1406	.1468	.1794	.1558	.1403	.1352	.1520	.1412	.0508	.0724	.0176	.0697	.0452	.0911
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0678	.1134	.0124	.0184	-.0329	-.0343	-.1190	-.1733	-.1793	-.1567	.4839	.4761	.4279	.1322	.1311
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1344	.0284	.0147	.0063	.0318	-.0374	-.0393	.0999	.0733	.0873	.0692				

MACH (3) = .698 ALPHA (7) = 10.236 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0810	.2201	.1532	.1692	.1488	.1357	.1057	.1346	.0903	.1109	.0549	.0103	.0696	.0413	.0765
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0560	.0729	.0154	.0217	-.0292	-.0284	-.1107	-.1605	-.1747	-.1548	.4678	.4314	.4031	.0989	.0907
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1033	.0274	.0033	.0106	.0311	-.0262	-.0297	.0992	.0793	.0791	.0645				

MACH (3) = .699 ALPHA (8) = 12.282 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0482	.2900	.1396	.1670	.1423	.1143	.0969	.1192	.0375	.1784	.0440	.0035	.0677	.0413	.0655
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0402	.0318	.0103	.0147	-.0234	-.0256	-.1017	-.1583	-.1713	-.1466	.4453	.4201	.3645	.0754	.0670

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (3) = .699 ALPHA (8) = 12.282

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO .32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0722 .0111 .0002 -.0012 .0260 -.0243 -.0306 .0937 .0793 .0678 .0510

MACH (3) = .701 ALPHA (9) = 16.473 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9446 .4141 .0880 .1075 .0859 .0505 .0372 .0542 -.0670 .2948 -.0159 -.0624 .0262 -.0051 .0176

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0165 -.0659 -.0178 -.0167 -.0546 -.0483 -.1248 -.1810 -.1972 -.1667 .3093 .3441 .2762 .0098 .0004

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0021 -.0375 -.0523 -.0455 -.0215 -.0588 -.0666 .0456 .0334 .0246 .0030

MACH (3) = .700 ALPHA (10) = 20.665 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8215 .5551 .0151 .0463 .0271 -.0068 -.0280 -.0174 -.1471 .4317 -.0742 -.1323 -.0059 -.0395 -.0273

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0631 -.1258 -.0349 -.0474 -.0615 -.0637 -.1290 -.1838 -.2123 -.1784 .2363 .2531 .2096 -.0282 -.0353

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0301 -.0943 -.0892 -.0800 -.0496 -.0343 -.0868 .0092 -.0117 -.0274 -.0447

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (3) = .700 ALPHA (11) = 24.938 RN/L = 3.6701 Q(PSF) = 523.60 P = 1524.1 PO = 2115.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .6367 .6702 -.1165 -.0831 -.0834 -.1382 -.1471 -.1357 -.2644 .5404 -.2033 -.2675 -.0991 -.1322 -.1387

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1707 -.2208 -.1108 -.1222 -.1309 -.1235 -.1867 -.2276 -.2557 -.2191 .1591 .1524 .0931 -.0961 -.0999

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0940 -.1734 -.1886 -.1628 -.1254 -.1599 -.1656 -.0723 -.0772 -.1597 -.1594

MACH (4) = .797 ALPHA (1) = -2.167 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1565 -.1703 .0953 .1430 .1563 .1675 .1804 .1815 .4450 -.2204 .0549 .0131 .0606 .0475 .0815

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0815 .3904 -.0095 .0090 -.0650 -.0694 -.1715 -.2309 -.2378 -.2187 .6713 .6907 .6288 .3621 .3499

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3600 -.0068 -.0137 -.0253 -.0116 -.1206 -.1014 .0645 .0466 .0684 .0496

MACH (4) = .800 ALPHA (2) = -.132 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1694 -.0994 .1377 .1735 .1742 .1808 .1970 .2000 .4030 -.1583 .0810 .0398 .0821 .0641 .0997

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1020 .3451 .0194 .0329 -.0344 -.0397 -.1472 -.1992 -.2070 -.1842 .6425 .6668 .6006 .3279 .3217

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (4) = .800 ALPHA (2) = -.132

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3219 .0375 .0156 .0248 .0384 -.0766 -.0663 .0901 .0735 .0994 .0702

MACH (4) = .800 ALPHA (3) = 1.974 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1708 -.0187 .1469 .1966 .1930 .2005 .2039 .2014 .3493 -.0924 .0953 .0652 .1035 .0805 .1156

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1090 .3035 .0414 .0497 -.0105 -.0202 -.1149 -.1694 -.1728 -.1542 .5972 .6252 .5824 .2851 .2810

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2812 .0522 .0360 .0471 .0625 -.0486 -.0449 .1145 .0935 .1168 .0939

MACH (4) = .796 ALPHA (4) = 4.030 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1705 .0392 .1660 .2113 .1978 .1973 .2035 .1996 .2896 -.0400 .1064 .0610 .1099 .0825 .1255

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1167 .2538 .0476 .0559 -.0067 -.0162 -.0963 -.1585 -.1650 -.1393 .5742 .5751 .5268 .2460 .2405

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2435 .0612 .0432 .0488 .0651 -.0340 -.0289 .1164 .0978 .1200 .1035

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (4) = .799 ALPHA (5) = 6.166 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1644	.1194	.1766	.2201	.2036	.1904	.2013	.2023	.2356	.0245	.1150	.0629	.1160	.0924	.1263
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1148	.2029	.0530	.0546	.0034	-.0033	-.0826	-.1412	-.1495	-.1232	.5450	.5567	.5103	.2087	.2000
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2016	.0667	.0468	.0421	.0651	-.0252	-.0132	.1324	.1091	.1254	.0987				

MACH (4) = .801 ALPHA (6) = 8.130 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1514	.1918	.1863	.2249	.1982	.1904	.1781	.1984	.1859	.0845	.1133	.0689	.1156	.0985	.1318
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1083	.1685	.0595	.0600	.0124	.0081	-.0724	-.1291	-.1316	-.1038	.5133	.5283	.4733	.1786	.1694
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1720	.0664	.0498	.0438	.0684	-.0018	-.0023	.1330	.1145	.1236	.1127				

MACH (4) = .800 ALPHA (7) = 10.186 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1269	.2587	.1899	.2200	.1910	.1730	.1598	.1748	.1265	.1526	.1034	.0552	.1152	.0821	.1175
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0965	.1228	.0591	.0582	.0108	.0110	-.0674	-.1240	-.1293	-.0941	.4939	.4838	.4408	.1385	.1333

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (4) = .800 ALPHA (7) = 10.186

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1399 .0554 .0423 .0416 .0611 .0028 .0005 .1299 .1102 .1123 .0978

MACH (4) = .798 ALPHA (8) = 12.271 RN/L = 3.8445 Q(P5F) = 620.74 P = 1387.9 PO * 2114.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0921 .3116 .1744 .2046 .1655 .1460 .1274 .1455 .0622 .2050 .0787 .0244 .0922 .0631 .0906

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0727 .0688 .0374 .0420 .0023 -.0002 -.0727 -.1234 -.1269 -.0948 .4436 .4493 .4034 .0897 .0904

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0970 .0473 .0190 .0239 .0493 -.0104 -.0062 .1201 .1009 .0921 .0749

MACH (4) = .802 ALPHA (9) = 16.494 RN/L = 3.8445 Q(P5F) = 620.74 P = 1387.9 PO * 2114.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0010 .4628 .1290 .1597 .1315 .1058 .0847 .0938 -.0250 .3405 .0372 -.0209 .0735 .0400 .0635

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0315 -.0122 .0219 .0164 -.0074 -.0097 -.0777 -.1311 -.1363 -.1025 .3471 .3725 .3115 .0463 .0380

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0385 -.0001 -.0158 -.0160 .0180 -.0270 -.0300 .0865 .0701 .0640 .0345

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TABULATED SOURCE DATA - OA220

(XNLP01)

ARC 150-1-14(OA220) TPS

MACH (4) = .801 ALPHA (10) = 20.564 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8813 .5934 .0577 .0859 .0716 .0252 .0137 .0272 -.1288 .4628 -.0339 -.0949 .0219 -.0038 .0008

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0385 -.0917 -.0190 -.0203 -.0300 -.0359 -.0917 -.1474 -.1594 -.1178 .2607 .2800 .2135 -.0119 -.0186

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0110 -.0612 -.0753 -.0672 -.0315 -.0730 -.0705 .0268 .0160 -.0209 -.0350

MACH (4) = .797 ALPHA (11) = 24.766 RN/L = 3.8445 Q(PSF) = 620.74 P = 1387.9 PO = 2114.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7191 .7180 -.0567 -.0276 -.0111 -.0741 -.0897 -.0906 -.2349 .5722 -.1472 -.2197 -.0486 -.0869 -.0973

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1414 -.1867 -.0846 -.0844 -.0906 -.0934 -.1444 -.1948 -.2202 -.1719 .1943 .1920 .1095 -.0683 -.0769

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0665 -.1724 -.1703 -.1339 -.1022 -.1420 -.1420 -.0600 -.0693 -.1291 -.1360

MACH (5) = .850 ALPHA (1) = -2.177 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1820 -.1334 .1211 .1812 .1946 .2031 .2125 .2184 .4850 -.1945 .0884 .0400 .0959 .0737 .1071

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1189 .4287 .0287 .0454 -.0208 -.0303 -.1352 -.1877 -.2072 -.1796 .7010 .7099 .6614 .3931 .3867

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (5) = .850 ALPHA (1) = -2.177

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3887 .0300 .0231 .0032 .0281 -.0847 -.0641 .0953 .0816 .1049 .0826

MACH (5) = .851 ALPHA (2) = -.122 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1931 -.0608 .1694 .2087 .2091 .2134 .2244 .2291 .4260 -.1314 .1102 .0691 .1132 .0907 .1265

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1385 .3845 .0458 .0614 -.0041 -.0109 -.1072 -.1624 -.1710 -.1419 .6601 .6766 .6374 .3504 .3492

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3494 .0606 .0331 .0477 .0703 -.0505 -.0331 .1214 .1062 .1285 .1022

MACH (5) = .850 ALPHA (3) = 2.136 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1943 .0100 .1734 .2329 .2208 .2216 .2286 .2331 .3684 -.0682 .1242 .0812 .1330 .1071 .1459

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1388 .3295 .0641 .0748 .0101 .0060 -.0884 -.1436 -.1453 -.1188 .6245 .6429 .5910 .3043 .3016

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3069 .0759 .0584 .0639 .0965 -.0280 -.0171 .1366 .1198 .1403 .1208

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (5) = .849 ALPHA (4) = 4.111 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1936 .0753 .1926 .2439 .2241 .2209 .2292 .2350 .3133 -.0149 .1331 .0899 .1380 .1105 .1532

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1404 .2840 .0687 .0824 .0187 .0129 -.0688 -.1225 -.1248 -.0976 .5882 .6107 .5589 .2701 .2616

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2682 .0897 .0650 .0751 .0891 -.0185 -.0037 .1435 .1278 .1490 .1248

MACH (5) = .850 ALPHA (5) = 6.197 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1879 .1499 .2008 .2508 .2321 .2223 .2236 .2316 .2569 .0489 .1398 .0922 .1439 .1179 .1512

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1411 .2440 .0757 .0864 .0285 .0263 -.0565 -.1103 -.1110 -.0799 .5687 .5854 .5239 .2278 .2257

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2316 .0851 .0704 .0702 .0911 .0031 .0061 .1533 .1331 .1491 .1325

MACH (5) = .849 ALPHA (6) = 8.151 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1728 .2175 .2100 .2506 .2291 .2142 .2038 .2159 .2054 .1118 .1392 .0901 .1420 .1090 .1484

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1311 .1938 .0758 .0831 .0348 .0350 -.0445 -.0395 -.0972 -.0683 .5235 .5438 .4927 .1972 .1887

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (5) = .849 ALPHA (6) = 8.151

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1983 .0854 .0660 .0675 .0880 .0195 .0189 .1564 .1344 .1468 .1328

MACH (5) = .856 ALPHA (7) = 10.277 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1523 .2887 .2155 .2518 .2209 .2100 .1832 .2089 .1524 .1766 .1329 .0830 .1408 .1127 .1408

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1198 .1527 .0783 .0826 .0388 .0320 -.0345 -.0938 -.0827 -.0509 .5109 .5154 .4603 .1612 .1565

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1599 .0832 .0620 .0658 .0880 .0274 .0274 .1554 .1381 .1415 .1213

MACH (5) = .855 ALPHA (8) = 12.332 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1222 .3558 .2067 .2380 .2029 .1807 .1657 .1683 .0990 .2372 .1127 .0595 .1312 .0982 .1255

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1016 .1078 .0705 .0735 .0360 .0290 -.0347 -.0935 -.0809 -.0473 .4870 .4740 .4293 .1251 .1174

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1279 .0665 .0484 .0533 .0788 .0208 .0223 .1486 .1264 .1242 .1063

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (5) = .855 ALPHA (9) = 16.595 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FOR'S BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0299	.4968	.1619	.1900	.1636	.1292	.1138	.1226	-.0076	.3637	.0623	.0023	.1034	.0674	.0859
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0481	.0136	.0476	.0398	.0189	.0161	-.0469	-.1003	-.0909	-.0530	.3789	.3995	.3313	.0649	.0566
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0606	.0180	.0053	.0072	.0408	-.0007	-.0071	.1072	.0955	.0851	.0632				

MACH (5) = .855 ALPHA (10) = 20.604 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9205	.6163	.0856	.1303	.1042	.0726	.0446	.0457	-.1027	.4879	-.0105	-.0648	.0501	.0184	.0248
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0107	-.0618	.0080	.0016	-.0061	-.0126	-.0671	-.1208	-.1172	-.0714	.2866	.3123	.2356	.0138	.0070
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0132	-.0420	-.0516	-.0415	-.0031	-.0499	-.0484	.0493	.0378	.0055	-.0059				

MACH (5) = .858 ALPHA (11) = 24.907 RN/L = 3.8974 Q(PSF) = 669.49 P = 1314.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7831	.7465	-.0155	.0215	.0202	-.0274	-.0459	-.0581	-.2025	.6136	-.1172	-.1840	-.0126	-.0484	-.0618
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.1093	-.1499	-.0436	-.0542	-.0510	-.0605	-.1074	-.1537	-.1668	-.1142	.2272	.2291	.1344	-.0366	-.0421

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (5) = .858 ALPHA (11) = 24.907

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0389 -.1314 -.1383 -.1096 -.0696 -.1100 -.1098 -.0285 -.0421 -.0962 -.1130

MACH (6) = .905 ALPHA (1) = -2.238 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2098 -.0947 .1539 .2139 .2310 .2371 .2477 .2601 .5171 -.1685 .1200 .0753 .1357 .1098 .1463

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1583 .4664 .0603 .0787 .0139 .0065 -.0929 -.1473 -.1555 -.1368 .7195 .7566 .6956 .4246 .4192

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4259 .0587 .0508 .0341 .0597 -.0540 -.0293 .1287 .1157 .1394 .1198

MACH (6) = .906 ALPHA (2) = -.010 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2207 -.0284 .2032 .2373 .2435 .2467 .2544 .2673 .4630 -.1054 .1399 .1027 .1529 .1233 .1605

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1735 .4199 .0779 .0979 .0277 .0259 -.0688 -.1252 -.1192 -.1008 .6897 .7052 .6616 .3840 .3775

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3850 .0871 .0690 .0825 .1014 -.0199 -.0067 1562 .1393 .1546 .1401

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (6) = .905 ALPHA (3) = 2.045 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2225	.0430	.2089	.2657	.2579	.2525	.2581	.2701	.3965	-.0439	.1571	.1139	.1670	.1377	.1768
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1788	.3733	.0900	.1074	.0423	.0427	-.0513	-.1028	-.0978	-.0697	.6723	.6782	.6261	.3356	.3342
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3451	.1006	.0870	.0868	.1166	-.0021	.0138	.1626	.1503	.1712	.1530				

MACH (6) = .905 ALPHA (4) = 4.182 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2213	.1115	.2266	.2806	.2589	.2593	.2501	.2746	.3422	.0195	.1688	.1271	.1748	.1519	.1838
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1718	.3214	.1008	.1137	.0565	.0503	-.0283	-.0796	-.0731	-.0455	.6254	.6387	.5997	.2973	.2927
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2977	.1177	.0976	.0972	.1258	.0139	.0286	.1757	.1616	.1815	.1597				

MACH (6) = .904 ALPHA (5) = 6.227 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2159	.1826	.2352	.2862	.2717	.2517	.2563	.2683	.2879	.0784	.1694	.1258	.1770	.1463	.1861
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1696	.2744	.1049	.1170	.0614	.0582	-.0165	-.0734	-.0591	-.0284	.5949	.6193	.5575	.2571	.2537

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (6) = .904 ALPHA (5) = 6.227

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2625 .1174 .1001 .0999 .1221 .0285 .0353 .1787 .1678 .1756 .1629

MACH (6) = .905 ALPHA (6) = 8.211 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2038 .2508 .2342 .2925 .2710 .2519 .2385 .2712 .2369 .1405 .1716 .1237 .1784 .1507 .1808

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1684 .2353 .1068 .1197 .0697 .0653 -.0062 -.0607 -.0409 -.0096 .5736 .5758 .5232 .2262 .2198

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2274 .1152 .0983 .0973 .1234 .0440 .0460 .1848 .1693 .1782 .1607

MACH (6) = .905 ALPHA (7) = 10.348 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1811 .3205 .2439 .2864 .2563 .2449 .2204 .2549 .1816 .2060 .1674 .1177 .1786 .1477 .1796

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1582 .1848 .1024 .1095 .0656 .0656 .0021 -.0529 -.0366 .0025 .5350 .5402 .4964 .1894 .1813

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1842 .1049 .0868 .0902 .1182 .0488 .0580 .1842 .1703 .1705 .1544

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (6) = .905 ALPHA (8) = 12.423 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.11466	.3867	.2324	.2770	.2371	.2212	.2063	.2332	.1352	.2670	.1526	.0963	.1726	.1408	.1652
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1390	.1420	.0955	.1043	.0683	.0664	.0021	-.0535	-.0311	.0054	.5096	.5017	.4632	.1575	.1503
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1527	.0895	.0779	.0803	.1093	.0518	.0530	.1746	.1603	.1546	.1390				

MACH (6) = .904 ALPHA (9) = 16.706 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0655	.5273	.1907	.2233	.1919	.1682	.1567	.1581	.0210	.3942	.0970	.0415	.1477	.1024	.1238
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0837	.0437	.0735	.0727	.0469	.0473	-.0091	-.0608	-.0421	.0002	.3966	.4329	.3652	.0911	.0788
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0846	.0447	.0287	.0371	.0669	.0232	.0220	.1323	.1193	.1119	.0887				

MACH (6) = .906 ALPHA (10) = 25.140 RN/L = 3.9022 Q(PSF) = 713.11 P = 1243.5 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8086	.7838	.0247	.0579	.0698	.0142	.0004	-.0051	-.1835	.6489	-.0763	-.1413	.0314	-.0066	-.0232
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0701	-.1141	-.0212	-.0326	-.0276	-.0340	-.0731	-.1227	-.1201	-.0649	.2127	.2635	.1561	-.0149	-.0206

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(XNLP01)

MACH (6) = .906 ALPHA (10) = 25.140

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0141 -.1153 -.1303 -.0942 -.0508 -.0924 -.0890 -.0192 -.0246 -.0904 -.0938

MACH (7) = .930 ALPHA (1) = -2.177 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2297 -.0688 .1904 .1180 .2673 .2845 .2931 .3238 .5670 -.1547 .1777 .1440 .2001 .1553 .2121

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2071 .4970 .1110 .1324 .0571 .0493 -.0400 -.0617 -.1105 -.0717 .7496 .7594 .7232 .4529 .4481

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4495 .0847 .0815 .0671 .0838 -.0323 -.0097 .1561 .1360 .1641 .1425

MACH (7) = .932 ALPHA (2) = .041 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2393 -.0051 .2256 .1567 .3244 .3132 .3033 .2950 .5077 -.0852 .1954 .1644 .2139 .1753 .2271

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2176 .4400 .1294 .1477 .0784 .0699 -.0173 -.0564 -.0735 -.0404 .7196 .7329 .6885 .4067 .3968

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4016 .1074 .0909 .1096 .1243 .0057 .0159 .1741 .1588 .1796 .1633

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (7) = .930 ALPHA (3) = 2.106 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2364	.0663	.2312	.1875	.3282	.3125	.3041	.3262	.4490	-.0293	.2029	.1707	.2205	.1863	.2293
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2183	.3874	.1374	.1549	.0870	.0804	-.0012	-.0443	-.0482	-.0086	.6867	.6954	.8427	.3634	.3531
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3562	.1235	.1137	.1139	.1374	.0187	.0312	.1840	.1695	.1861	.1730				

MACH (7) = .930 ALPHA (4) = 4.111 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2320	.1356	.2492	.2205	.3281	.3204	.3033	.3242	.3973	.0334	.2162	.1802	.2324	.1915	.2332
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2227	.3469	.1441	.1609	.1039	.0965	.0203	-.0258	-.0254	.0179	.6479	.6622	.6169	.3254	.3196
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3252	.1357	.1246	.1223	.1473	.0409	.0450	.1972	.1815	.1980	.1860				

MACH (7) = .927 ALPHA (5) = 6.166 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2203	.2093	.2553	.2240	.3429	.3176	.3001	.3175	.3447	.0912	.2219	.1828	.2318	.1926	.2293
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2152	.3003	.1512	.1686	.1027	.1045	.0282	-.0115	-.0103	.0319	.6288	.6317	.5845	.2908	.2788

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(XNLP01)

MACH (7) = .927 ALPHA (5) = 6.166

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2873 .1400 .1258 .1250 .1487 .0518 .0563 .2022 .1856 .1946 .1828

MACH (7) = .926 ALPHA (6) = 8.232 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2038 .2738 .2596 .2261 .3323 .3102 .2814 .3073 .2860 .1526 .2208 .1720 .2310 .1968 .2284

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2099 .2500 .1495 .1653 .1051 .1065 .0367 -.0063 .0007 .0461 .5844 .5970 .5612 .2453 .2422

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2473 .1381 .1206 .1186 .1437 .0633 .0674 .2033 .1882 .1950 .1834

MACH (7) = .927 ALPHA (7) = 10.257 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1780 .3398 .2598 .2343 .3168 .3046 .2692 .2879 .2311 .2084 .2084 .1569 .2280 .1853 .2129

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1966 .1963 .1456 .1565 .1088 .1048 .0426 -.0028 .0076 .0559 .5493 .5667 .5049 .2087 .2050

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2060 .1258 .1118 .1137 .1416 .0735 .0721 .981 .1850 .1850 .1736

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(XNLP01)

MACH (7) = .926 ALPHA (8) = 12.454 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1454	.4137	.2454	.2330	.3124	.2830	.2513	.2653	.1809	.2823	.1918	.1434	.2157	.1793	.2033
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1794	.1530	.1391	.1519	.1047	.1039	.0401	-.0024	.0113	.0559	.4918	.5210	.4675	.1802	.1713
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1745	.1098	.1013	.1041	.1336	.0705	.0693	.1929	.1768	.1734	.1567				

MACH (7) = .922 ALPHA (9) = 16.605 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0551	.5402	.2130	.1968	.2307	.2313	.1952	.2080	.0661	.4072	.1483	.0911	.1971	.1393	.1641
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1255	.0606	.1100	.1175	.0803	.0868	.0280	-.0157	-.0025	.0478	.3966	.4391	.3696	.1111	.1038
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1078	.0616	.0565	.0632	.0916	.0486	.0425	.1540	.1374	.1315	.1099				

MACH (7) = .916 ALPHA (10) = 20.756 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9498	.6646	.1407	.1385	.1980	.1560	.1288	.1302	-.0421	.5281	.0653	.0085	.1319	.0876	.0937
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0558	-.0284	.0657	.0661	.0471	.0481	-.0021	-.0433	-.0379	.0210	.2797	.3508	.2662	.0528	.0455

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(XNLP01)

MACH (7) = .916 ALPHA (10) = 20.756

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39 0000 40.0000 41.0000 42.0000

SET .000 .0506 -.0104 -.0166 .0020 .0425 .0005 -.0083 0800 .0739 .0452 .0252

MACH (7) = .911 ALPHA (11) = 24.979 RN/L = 3.9730 Q(PSF) = 729.28 P = 1215.9 PO = 2115.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8032 .7839 .0367 .0409 .1064 .0613 .0427 .0279 -.1458 .6524 -.0290 -.1052 .0644 .0174 .0069

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0441 -.1184 .0083 -.0031 .0005 -.0053 -.0465 -.0893 -.0951 -.0326 .1809 .2468 .1738 -.0019 -.0113

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39 0000 40.0000 41.0000 42.0000

SET .000 -.0017 -.1003 -.1106 -.0705 -.0359 -.0729 -.0799 -.0057 -.0147 -.0700 -.0778

MACH (8) = 1.044 ALPHA (1) = -2.258 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.3006 .0775 .3229 .2375 .3781 .4040 .4206 .4339 .6634 -.0246 .3000 .2629 .3213 .2832 .3307

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3273 .6005 .2396 .2502 .1817 .1748 .0941 .0521 .0487 .0763 .8359 .8522 .8137 .5541 .5455

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .5448 .2062 .1912 .1859 .2072 .0942 .1059 .2731 .2520 .2839 .2634

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (8) = 1.043 ALPHA (2) = -.091 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.3031	.1376	.3419	.2660	.4325	.4117	.4160	.3981	.6040	.0271	.3111	.2712	.3249	.2927	.3383
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.3392	.5483	.2475	.2638	.2004	.1889	.1137	.0675	.0756	.1104	.7935	.8211	.7762	.5072	.5032
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.5044	.2168	.2030	.2211	.2353	.1194	.1315	.2860	.2707	.2942	.2751				

MACH (8) = 1.041 ALPHA (3) = 2.025 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.3003	.1948	.3612	.2859	.4364	.4246	.4190	.4339	.5481	.0903	.3263	.2839	.3324	.2980	.3408
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.3334	.4994	.2570	.2692	.2113	.2005	.1263	.0798	.1108	.1527	.7753	.7938	.7488	.4639	.4604
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.4606	.2265	.2152	.2272	.2455	.1309	.1382	.2960	.2784	.3045	.2831				

MACH (8) = 1.039 ALPHA (4) = 4.111 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2975	.2526	.3691	.3063	.4304	.4244	.4125	.4304	.4953	.1455	.3338	.2851	.3423	.3042	.3430
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.3304	.4483	.2621	.2722	.2196	.2116	.1380	.0920	.1274	.1667	.7294	.7608	.7107	.4231	.4183

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (8) = 1.039 ALPHA (4) = 4.111

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4165 .2384 .2212 .2292 .2496 .1426 .1519 .3005 .2815 .3032 .2918

MACH (8) = 1.037 ALPHA (5) = 6.267 RN/L = 3.8829 C(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2822 .3190 .3753 .3098 .4443 .4173 .4057 .4223 .4354 .2065 .3308 .2824 .3416 .3024 .3356

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3244 .3984 .2595 .2695 .2235 .2161 .1460 .0989 .1450 .1849 .7056 .7197 .6597 .3799 .3741

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3762 .2379 .2241 .2278 .2499 .1549 .1586 .3033 .2910 .3035 .2863

MACH (8) = 1.034 ALPHA (6) = 8.211 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2608 .3754 .3784 .3253 .4337 .4068 .3984 .4057 .3844 .2598 .3299 .2752 .3382 .2976 .3380

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3105 .3519 .2537 .2628 .2219 .2114 .1511 .1023 .1539 .1932 .6667 .6792 .6340 .3371 .3385

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3392 .2303 .2152 .2216 .2432 .1658 .1578 .2933 .2785 .2972 .2807

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OF POOR QUALITY

ARC 150-1-14(OA220) TPS

(XNLPC1)

MACH (8) = 1.034 ALPHA (7) = 10.338 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2353	.4412	.3679	.3250	.4228	.4048	.3808	.3970	.3297	.3193	.3219	.2630	.3396	.2937	.3187
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2937	.3026	.2537	.2578	.2255	.2159	.1527	.1061	.1607	.2083	.6154	.6521	.6011	.3031	.2977
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2991	.2221	.2023	.2141	.2376	.1713	.1662	.2936	.2776	.2882	.2722				

MACH (8) = 1.031 ALPHA (8) = 12.423 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2050	.5035	.3585	.3166	.3742	.3760	.3663	.3551	.2688	.3721	.3054	.2400	.3248	.2797	.3072
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2742	.2500	.2375	.2398	.2172	.2076	.1472	.0991	.1570	.1990	.5925	.6049	.5712	.2639	.2577
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2591	.1985	.1827	.1945	.2188	.1606	.1589	.2836	.2654	.2721	.2533				

MACH (8) = 1.025 ALPHA (9) = 16.696 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1244	.6251	.3122	.2813	.3210	.3250	.2930	.3068	.1597	.4892	.2571	.1794	.3048	.2456	.2612
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2182	.1519	.2018	.2020	.1873	.1821	.1254	.0798	.1395	.1907	.4681	.5170	.4908	.1985	.1911

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (8) = 1.025 ALPHA (9) = 16.696

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1931 .1436 .1297 .1487 .1793 .1284 .1283 .2389 .2229 .2167 .1976

MACH (8) = 1.016 ALPHA (10) = 20.736 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0183 .7348 .2515 .2233 .3079 .2591 .2238 .2337 .0521 .6055 .1871 .1018 .2479 .1939 .1891

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1507 .0654 .1570 .1482 .1507 .1421 .0895 .0438 .0982 .1597 .3790 .4456 .3801 .1408 .1310

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1381 .0710 .0534 .0876 .1144 .0760 .0650 .1627 .1466 .1167 .1043

MACH (8) = 1.009 ALPHA (11) = 24.989 RN/L = 3.8829 Q(PSF) = 803.04 P = 1074.3 PO = 2115.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9066 .8439 .1592 .1296 .2291 .1754 .1527 .1445 -.0981 .7203 .0771 .0014 .1746 .1309 .1034

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0737 -.0483 .0967 .0824 .0847 .0755 .0358 -.0026 .0376 .1108 .2531 .3238 .2314 .0965 .0879

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0915 -.0479 -.0473 .0069 .0393 .0078 .0018 .0453 .0240 -.0303 -.0358

ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (9) = 1.121 ALPHA (1) = -2.288 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.3250	.1536	.3989	.3332	.4465	.4801	.4703	.4668	.7133	.0725	.3649	.3513	.3852	.3688	.3605
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.4147	.6697	.3201	.3334	.2706	.2691	.1931	.1508	.1379	.1655	.8724	.9007	.8559	.6132	.6111
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.6102	.2775	.2721	.2674	.2954	.1878	.2089	.3481	.3379	.3569	.3488				

MACH (9) = 1.136 ALPHA (2) = -.071 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.3404	.1823	.3981	.3293	.4784	.4753	.4537	.4757	.6580	.0843	.3632	.3301	.3665	.3453	.3705
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.3920	.6147	.3074	.3214	.2718	.2668	.2062	.1623	.1808	.2069	.8563	.8708	.8267	.5772	.5711
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.5724	.2715	.2587	.2778	.2931	.1821	.1937	.3556	.3551	.3608	.3481				

MACH (9) = 1.137 ALPHA (3) = 2.096 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.3422	.2401	.4059	.3494	.4815	.4902	.4585	.4865	.5995	.1385	.3699	.3516	.3793	.3547	.3898
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.4011	.5716	.3277	.3419	.2913	.2901	.2209	.1768	.2117	.2497	.8197	.8592	.7921	.5358	.5339

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ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (9) = 1.137 ALPHA (3) = 2.096

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .5329 .2840 .2969 .2931 .3122 .2034 .2163 .3709 .3631 .3703 .3632

MACH (9) = 1.132 ALPHA (4) = 4.182 RN/L = 3.8822 J(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.3402 .3139 .4302 .3691 .4513 .4768 .4681 .4937 .5492 .1949 .3765 .3391 .3996 .3642 .3968

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3844 .5255 .3393 .3418 .3022 .3020 .2408 .1902 .2346 .2694 .7940 .8151 .7517 .5030 .4879

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4955 .3130 .3035 .2952 .3236 .2209 .2402 .3957 .3701 .3833 .3751

MACH (9) = 1.129 ALPHA (5) = 6.257 RN/L = 3.8822 J(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.3249 .3666 .4336 .3696 .4934 .4767 .4476 .4776 .4874 .2575 .3865 .3493 .3914 .3652 .3924

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3827 .4799 .3309 .3537 .3141 .3032 .2437 .1926 .2450 .2846 .7626 .7714 .7389 .4505 .4476

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4550 .3146 .2934 .3063 .3275 .2319 .2568 .3931 .3713 .3890 .3724

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (9) = 1.125 ALPHA (6) = 8.282 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.3081 .4415 .4389 .3754 .4901 .4670 .4625 .4722 .4571 .3312 .3955 .3416 .4067 .3765 .4005

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3918 .4312 .3305 .3478 .3102 .2996 .2444 .1959 .2524 .2932 .7234 .7495 .7031 .4249 .4188

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .4171 .3004 .2960 .3009 .3256 .2426 .2542 .3831 .3732 .3802 .3636

MACH (9) = 1.123 ALPHA (7) = 10.307 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2874 .4932 .4344 .3852 .4886 .4777 .4527 .4718 .3979 .3865 .3941 .3383 .4038 .3803 .3929

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3781 .3954 .3311 .3368 .3143 .3052 .2432 .1984 .2674 .3108 .7092 .7177 .6720 .3879 .3821

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3912 .3027 .2913 .2960 .3235 .2543 .2558 .3774 .3653 .3737 .3566

MACH (9) = 1.119 ALPHA (8) = 12.504 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2573 .5552 .4381 .3848 .4877 .4584 .4327 .4371 .3383 .4360 .3832 .3282 .3938 .3545 .3781

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3522 .3397 .3161 .3363 .3001 .2955 .2352 .1890 .2610 .3024 .6480 .6703 .6421 .3463 .3417

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ARC 150-1-14(OA220) TPS

(XNLP01)

MACH (9) = 1.119 ALPHA (8) = 12.504

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3441 .2837 .2646 .2819 .3045 .2465 .2469 .3630 .3493 .3515 .3350

MACH (9) = 1.116 ALPHA (9) = 16.888 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1803 .6860 .3965 .3476 .4081 .4077 .3824 .3949 .2386 .5669 .3422 .2713 .3856 .3304 .3422

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3150 .2479 .2880 .2901 .2739 .2666 .2104 .1637 .2423 .2921 .5574 .6162 .5492 .2766 .2693

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2718 .2248 .2155 .2357 .2576 .2128 .2116 .3142 .3003 .2970 .2780

MACH (9) = 1.109 ALPHA (10) = 20.837 RN/L = 3.8822 Q(PSF) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0871 .7978 .3432 .3043 .3931 .3435 .3197 .3268 .1123 .6625 .2677 .1933 .3491 .2819 .2773

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2433 .1742 .2497 .2355 .2140 .2147 .1636 .1189 .2025 .2624 .4600 .5263 .4466 .2195 .2056

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2163 .1544 .1466 .1723 .2042 .1497 .1473 .2068 .2027 .1738 .1686

ARC 150-1-14(0A220) TPS

(XNLP01)

MACH (9) = 1.101 ALPHA (11) = 25.080 RN/L = 3.8822 Q(P5F) = 850.61 P = 962.06 PO = 2116.6

SECTION (1)FORE BODY	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9729	.9033	.2670	.2214	.3234	.2781	.2525	.2427	.0091	.7863	.1813	.1154	.2659	.2332	.1953
TAP NO	16.0000	17.0000	18.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1777	.0059	.1840	.1645	.1747	.1566	.0715	.0649	.1515	.2235	.3065	.3914	.2999	.0649	.0567
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0610	.0376	.0456	.0620	.1061	.1082	.0926	.1318	.1118	.0697	.0434				

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TABULATED SOURCE DATA - OA220

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ARC 150-1-14(OA220) TPS(MOD)+ADP

(XNLP02) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .000

MACH (1) = .621 ALPHA (1) = -1.914 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0992 -.1785 .0643 .1012 .1299 .1522 .1522 .1635 .4163 -.2221 .0925 .0848 .0797 .0806 .0697

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0887 .3577 -.0207 .0102 -.0751 -.0755 -.1646 -.2064 -.2045 -.1852 .6068 .6081 .5696 .3171 .3096

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3103 -.0243 -.0382 -.0440 -.0330 -.1380 -.1238 .0336 .0275 .0451 .0246

MACH (1) = .620 ALPHA (2) = .101 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1025 -.1124 .1010 .1409 .1516 .1732 .1745 .1770 .3560 -.1658 .1023 .0897 .0961 .0852 .0849

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1010 .3104 -.0131 .0249 -.0553 -.0550 -.1417 -.1890 -.1881 -.1687 .5752 .5880 .5450 .2798 .2772

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2734 -.0047 -.0144 -.0089 .0108 -.1043 -.0907 .0617 .0549 .0630 .0476

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS(MOD)+ADP

(XNLP02)

MACH (1) = .619 ALPHA (3) = 2.248 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0989 -.0433 .1184 .1542 .1613 .1875 .1681 .1784 .2969 -.1051 .1022 .0844 .0877 .0828 .0867

TAP NO 16.0000 17.0000 18.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0974 .2605 .0050 .0305 -.0461 -.0390 -.1333 -.1811 -.1895 -.1582 .5505 .5656 .5164 .2369 .2301

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2392 .0095 .0024 .0092 .0276 -.0735 -.0703 .0725 .0605 .0710 .0562

MACH (1) = .617 ALPHA (4) = 4.242 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0875 .0153 .1301 .1565 .1626 .1900 .1656 .1890 .2574 -.0560 .0969 .0729 .0881 .0709 .0937

TAP NO 16.0000 17.0000 18.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0972 .2035 .0150 .0368 -.0340 -.0399 -.1198 -.1679 -.1644 -.1527 .5323 .5449 .4548 .2030 .1880

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1922 .0238 .0131 .0173 .0274 -.0503 -.0620 .0804 .0674 .0772 .0584

MACH (1) = .622 ALPHA (5) = 6.176 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0700 .0864 .1442 .1834 .1619 .1703 .1674 .1716 .1953 .0050 .0924 .0603 .0947 .0754 .0885

TAP NO 16.0000 17.0000 18.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0937 .1717 .0176 .0381 -.0348 -.0252 -.1029 -.1533 -.1566 -.1386 .5068 .5078 .4415 .1655 .1574

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ARC 150-1-14(0A220) TPS(MOD)+ADP

(XNLP02)

MACH (1) = .622 ALPHA (5) = 6.176

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1626 .0221 .0144 .0003 .0369 -.0354 -.0411 .0996 .0797 .0851 .0637

MACH (1) = .620 ALPHA (6) = 8.333 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0382 .1634 .1397 .1787 .1587 .1681 .1652 .1571 .1435 .0568 .0833 .0562 .0897 .0672 .0862

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0817 .1200 .0285 .0420 -.0234 -.0192 -.0934 -.1443 -.1460 -.1337 .4629 .4808 .4102 .1365 .1229

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1300 .0233 .0136 .0040 .0420 -.0173 -.0280 .1052 .0865 .0918 .0626

MACH (1) = .619 ALPHA (7) = 10.449 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0048 .2266 .1409 .1748 .1458 .1480 .1380 .1435 .0874 .1213 .0549 .0307 .0756 .0404 .0653

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0649 .0695 .0142 .0365 -.0268 -.0229 -.1037 -.1599 -.1637 -.1473 .4229 .4441 .3639 .0918 .0898

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0931 .0071 .0032 -.0029 .0284 -.0265 -.0304 .0340 .0698 .0839 .0629

ARC 150-1-14(OA220) TPS(MOD)+ADP

(XNLP02)

MACH (1) = .620 ALPHA (8) = 12.484 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9672	.2969	.1222	.1512	.1328	.1260	.1164	.1061	.0392	.1816	.0342	-.0032	.0600	.0222	.0442
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0345	.0248	.0116	.0235	-.0319	-.0242	-.1112	-.1644	-.1599	-.1444	.3869	.3811	.3483	.0635	.0519
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0600	.0045	-.0039	-.0119	.0235	-.0239	-.0380	.0874	.0677	.0627	.0508				

MACH (1) = .621 ALPHA (9) = 16.544 RN/L = 3.4785 Q(PSF) = 441.52 P = 1642.2 PO = 2127.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8569	.4257	.0703	.1102	.0954	.0681	.0687	.0594	-.0617	.3021	-.0205	-.0881	.0224	-.0275	-.0047
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0092	-.0549	-.0127	-.0114	-.0597	-.0488	-.1158	-.1660	-.1931	-.1644	.2976	.2950	.2642	.0095	-.0030
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0037	-.0327	-.0439	-.0455	-.0127	-.0462	-.0639	.0542	.0391	.0234	.0048				

MACH (2) = .901 ALPHA (11) = -1.974 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2179	-.0776	.1689	.2152	.2370	.2641	.2577	.2765	.5079	-.1629	.1885	.1820	.1748	.1844	.1671
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1992	.4607	.0524	.1028	.0097	.0113	-.0868	-.1427	-.1364	-.1265	.7176	.7256	.6921	.4223	.4181

ARC 150-1-14(OA220) TPS(MOD)+AJP

(XNLP02)

MACH (2) = .901 ALPHA (1) = -1.974

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4211 .0663 .0584 .0485 .0732 -.0603 -.0395 .1373 .1256 .1442 .1263

MACH (2) = .898 ALPHA (2) = .192 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2192 -.0063 .1944 .2436 .2414 .2788 .2619 .2774 .4491 -.0970 .1875 .1851 .1774 .1772 .1713

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1966 .4040 .0757 .1182 .0212 .0240 -.0659 -.1274 -.1068 .0961 .6715 .6971 .6406 .3742 .3716

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3708 .0872 .0727 .0768 .0993 -.0232 -.0086 .1462 .1397 .1594 .1382

MACH (2) = .901 ALPHA (3) = 2.207 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2172 .0612 .2119 .2605 .2583 .2970 .2663 .3038 .3986 -.0312 .1950 .1799 .1819 .1752 .1756

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2030 .3582 .0894 .1319 .0397 .0471 -.0433 -.1041 -.0796 -.0641 .6585 .6615 .6217 .3350 .3292

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3346 .1053 .0894 .0947 .1186 .0007 .0131 .1599 .1498 .1726 .1519

ARC 150-1-14(OA220) TPS(MOD)+ADP

(XNLP02)

MACH (2) = .902 ALPHA (4) = 4.374 RN/L = 4.0532 Q(PSF) = 712. P = 1254.3 PO = 2124.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2075	.1385	.2354	.2688	.2613	.3015	.2684	.3039	.3487	.0253	.1921	.1749	.1867	.1759	.1805
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2056	.3098	.1073	.1462	.0569	.0647	-.0192	-.0735	-.0527	-.0362	.6261	.6490	.5828	.2995	.2945
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2983	.1233	.1066	.1056	.1278	.0284	.0278	.1762	.1641	.1794	.1641				

MACH (2) = .902 ALPHA (5) = 6.389 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1885	.2027	.2429	.2813	.2601	.2825	.2615	.2717	.2972	.0941	.1842	.1627	.1858	.1657	.1753
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1987	.2645	.1061	.1490	.0623	.0727	-.0049	-.0620	-.0389	-.0186	.6000	.6020	.5583	.2629	.2583
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2599	.1168	.1055	.1041	.1298	.0487	.0449	.1829	.1714	.1830	.1703				

MACH (2) = .899 ALPHA (6) = 8.454 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1598	.2688	.2402	.2801	.2559	.2663	.2370	.2561	.2326	.1496	.1716	.1442	.1730	.1565	.1605
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1690	.2225	.1042	.1464	.0628	.0741	.0001	-.0583	-.0294	-.0070	.5383	.5730	.5151	.2174	.2156

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ARC 150-1-14(0A220) TPS(MOD)+ADP

(XNLP02)

MACH (2) = .899 ALPHA (6) = 8.454

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2194 .1121 .0932 .1001 .1386 .0507 .0531 .1811 .1682 .1750 .1652

MACH (2) = .901 ALPHA (7) = 10.540 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 P0 = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1323 .3431 .2342 .2738 .2461 .2507 .2356 .2409 .1852 .2170 .1560 .1222 .1707 .1365 .1534

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1546 .1733 .1049 .1475 .0665 .0826 .0069 -.0496 -.0178 .0071 .5171 .5374 .4809 .1875 .1795

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1855 .1091 .0882 .0904 .1387 .0605 .0587 .1855 .1718 .1689 .1627

MACH (2) = .903 ALPHA (8) = 12.666 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 P0 = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0971 .4048 .2154 .2553 .2296 .2358 .2165 .2211 .1297 .2803 .1330 .0936 .1581 .1254 .1292

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1308 .1218 .1007 .1368 .0615 .0763 .0052 -.0534 -.0147 .0119 .4700 .4976 .4380 .1549 .1466

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1506 .0930 .0848 .0785 .1167 .0561 .0515 .1757 .1652 .1680 .1497

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ARC 150-1-14(0A220) TPS(MOD)+ADP

(XNLP02)

MACH (2) = .901 ALPHA (9) = 16.828 RN/L = 4.0532 Q(PSF) = 712.78 P = 1254.3 PO = 2124.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9954	.5372	.1834	.2158	.1913	.1835	.1632	.1538	.0175	.4062	.0862	.0316	.1220	.0735	.0846
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0771	.0332	.0755	.0888	.0350	.0489	.0032	-.0584	-.0367	-.0022	.3734	.4268	.3509	.0919	.0830
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0899	.0475	.0395	.0425	.0822	.0372	.0306	.1391	.1229	.1203	.0914				

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ARC 150-1-14(0A220) TPS+ADP

(XNLP03) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSGAP = .010

MACH (1) = .621 ALPHA (1) = -1.944 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0667 -.1750 .0479 .1093 .1382 .1700 .1446 .1694 .4117 -.2125 .0893 .0665 .0887 .0224 .0700

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1035 .3566 -.0187 .0022 -.0653 -.0673 -.1567 -.2043 -.1837 -.1795 .5985 .6097 .5867 .3289 .3260

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3186 -.0142 -.0242 -.0399 -.0052 -.1239 -.1059 .0546 .0485 .0605 .0422

MACH (1) = .618 ALPHA (2) = .071 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0836 -.1200 .0999 .1316 .1384 .1679 .1485 .1708 .3581 -.1723 .0913 .0631 .0848 .0175 .0735

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1026 .3056 -.0133 .0101 -.0628 -.0676 -.1589 -.2000 -.1881 -.1790 .5716 .5832 .5348 .2828 .2731

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2728 -.0081 -.0121 -.0078 .0090 -.1062 -.1001 .0591 .0517 .0674 .0390

ARC 150-1-14(OA220) TPS+ADP

(XNLP03)

MACH (1) = .619 ALPHA (3) = 2.086 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0957 -.0393 .1013 .1491 .1524 .1837 .1575 .1928 .3031 -.1108 .0997 .0661 .0977 .0270 .0877

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1129 .2622 .0034 .0221 -.0448 -.0406 -.1265 -.1750 -.1685 -.1605 .5474 .5664 .5100 .2470 .2386

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2428 .0221 .0066 .0040 .0276 -.0719 -.0687 .0887 .0712 .0857 .0647

MACH (1) = .621 ALPHA (4) = 4.222 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1003 .0244 .1075 .1648 .1554 .1828 .1538 .1908 .2485 -.0581 .0932 .0620 .0951 .0556 .0787

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0964 .2081 .0147 .0372 -.0281 -.0300 -.1114 -.1680 -.1590 -.1455 .5307 .5416 .4778 .2027 .1918

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2018 .0347 .0200 .0158 .0341 -.0528 -.0563 .0879 .0753 .0965 .0689

MACH (1) = .623 ALPHA (5) = 6.217 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1007 .0923 .1135 .1682 .1589 .1759 .1634 .1579 .1943 -.0020 .0865 .0558 .1035 .0219 .0872

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1041 .1588 .0203 .0379 -.0331 -.0318 -.1108 -.1600 -.1530 -.1415 .5088 .4980 .4416 .1669 .1573

ARC 150-1-14(0A220) TPS+ADP

(XNLP03)

MACH (1) = .623 ALPHA (5) = 6.217

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1644 .0338 .0144 .0150 .0284 -.0394 -.0474 .0955 .0771 .0843 .0639

MACH (1) = .623 ALPHA (6) = 8.313 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0991 .1554 .1532 .1708 .1605 .1666 .1180 .1612 .1423 .0693 .0776 .0405 .0872 .0072 .0808

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0926 .1208 .0261 .0414 -.0177 -.0133 -.0919 -.1421 -.1431 -.1290 .4735 .4779 .4011 .1369 .1231

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1349 .0434 .0201 .0156 .0383 -.0112 -.0234 .1049 .0937 .0894 .0716

MACH (1) = .621 ALPHA (7) = 10.388 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0894 .2265 .1266 .1581 .1526 .1523 .1044 .1500 .0911 .1292 .0663 .0235 .0794 -.0111 .0582

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0778 .0743 .0178 .0316 -.0275 -.0176 -.1024 -.1586 -.1444 -.1322 .4292 .4449 .3713 .1018 .0925

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0938 .0306 .0077 .0038 .0350 -.0171 -.0293 .0999 .0842 .0748 .0604

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ARC 150-1-14(OA220) TPS+ADP

(XNLP03)

MACH (1) = .622 ALPHA (8) = 12.433 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.0665	.2911	.1025	.1382	.1144	.1272	.0765	.1349	.0335	.1750	.0298	-.0068	.0571	.110	.0462
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0427	.0253	.0041	.0183	-.0389	-.0315	-.1134	-.1773	-.1632	-.1494	.3760	-.3872	.3376	.0643	.0473
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.0601	.0022	-.0048	-.0122	.0155	-.0311	-.0391	.0823	.0656	.0611	.0323				

MACH (1) = .622 ALPHA (9) = 16.595 RN/L = 3.5384 Q(PSF) = 442.71 P = 1639.6 PO = 2126.9

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.9854	.4357	.0568	.0838	.0713	.0710	.0559	.0472	-.0747	.3051	-.0353	-.0915	.0206	-.0639	-.0099
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	-.0106	-.0568	-.0141	-.0099	-.0626	-.0552	-.1181	-.1720	-.1868	-.1627	.2933	.3039	.2805	.0019	-.0058
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.0058	-.0314	-.0466	-.0485	-.0161	-.0431	-.0598	.0565	.0359	.0271	-.0001				

MACH (2) = .901 ALPHA (1) = -1.944 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.1883	-.0806	.1468	.2172	.2389	.2840	.2284	.2782	.5200	-.1756	.1948	.1884	.1785	.1437	.1781
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.2138	.4527	.0593	.0869	.0053	.0099	-.0838	-.1416	-.1448	-.1240	.7070	.7363	.6843	.4208	.4128

ARC 150-1-14(0A220) TPS+ADP

(XNLP03)

MACH (2) = .901 ALPHA (1) = -1.944

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .4134 .0621 .0548 .0441 .0623 -.0609 -.0350 .1299 .1216 .1348 .1196

MACH (2) = .899 ALPHA (2) = .142 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2033 -.0202 .2066 .2470 .2556 .2961 .2437 .3058 .4590 -.1096 .1967 .1926 .1845 .1460 .1803

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2175 .4018 .0746 .1051 .0247 .0310 -.0583 -.1185 -.1122 -.0926 .6785 .7069 .6617 .3754 .3750

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3746 .0817 .0682 .0826 .1005 -.0180 -.0058 .1455 .1372 .1568 .1377

MACH (2) = .898 ALPHA (3) = 2.278 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2177 .0009 .1879 .2660 .2606 .2937 .2427 .3046 .3976 -.0428 .2013 .1874 .1912 .1437 .1878

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2124 .3576 .0942 .1217 .0411 .0518 -.0369 -.0954 -.0868 -.0603 .6464 .6622 .6204 .3357 .3257

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3307 .1009 .0998 .0941 .1138 .0003 .0129 .1578 .1495 .1666 .1534

ARC 150-1-14(0A220) TPS+ADP

(XNLP03)

MACH (2) = .901 ALPHA (4) = 4.313 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2214 .1367 .2100 .2788 .2690 .3028 .2441 .3072 .3540 .0259 .2029 .1876 .1956 .1479 .1934

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2126 .3099 .1073 .1320 .0583 .0644 -.0113 -.0687 -.0605 -.0305 .6263 .6309 .5903 .2988 .2926

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2988 .1147 .1045 .1018 .1255 .0167 .0341 .1728 .1645 .1817 .1614

MACH (2) = .900 ALPHA (5) = 6.338 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2164 .2031 .2109 .2884 .2772 .2932 .2445 .2926 .2969 .0866 .1986 .1762 .1960 .1383 .1895

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2004 .2588 .1129 .1377 .0650 .0747 .0009 -.0531 -.0414 -.0094 .5941 .6068 .5626 .2562 .2518

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2570 .1174 .1063 .1027 .1268 .0357 .0395 .1810 .1684 .1764 .1660

MACH (2) = .902 ALPHA (6) = 8.414 RN/L = 3.9318 Q(PSF) = 710.99 P = 1255.1 PO = 2122.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2060 .2715 .2235 .2907 .2692 .2841 .2300 .2847 .2498 .1495 .1878 .1611 .1872 .1345 .1808

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1906 .2176 .1164 .1389 .0691 .0810 .0095 -.0470 -.0279 .0061 .5533 .5710 .5210 .2211 .2162

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ARC 150-1-14(0A220) TPS+ADP

(XNLP03)

MACH (2) = .902 ALPHA (6) = 8.414

SECTION (1) FORE BODY DEPENDENT VARIABLE C_D

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2192 .1152 .1016 .0957 .1233 .0476 .0455 .1781 .1662 .1732 .1664

MACH (2) = .899 ALPHA (7) = 10.469 RN/L = 3,9318 Q(PSF) = 710.99 P = 1255.1 PC = 2122.1

SECTION (1) FORE BODY DEPENDENT VARIABLE C_P

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1863 .3375 .2340 .2925 .2626 .2588 .2151 .2650 .1905 .2127 .1708 .1416 .1790 .1216 .1664

TAP NO 16.0000 17.0000 18.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1746 .1653 .1141 .1131 .1121 .1166 .1160 .1146 .1141 .1139 .5350 .5342 .5348 .1829 .1778

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1737 .1131 .0932 .0938 .0942 .0942 .0942 .0942 .0946 .5380 .5360

PARAMETRIC DATA

BETA = 2.000 TPSPAP = .010

MACH (1) = .396 ALPHA (1) = -2.430 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9953 -.1989 -.0173 .1228 .0410 .1898 .0734 .2020 .3858 -.2326 .0279 .1239 .0231 .1029 .0048

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1280 .3471 -.0709 .0265 -.1135 -.0439 -.1900 -.1690 -.2414 -.1704 .5597 .5739 .5604 .3042 .3103

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3123 -.1149 .0085 -.1005 .0058 -.1655 -.0836 -.0044 .0599 -.0202 .0567

MACH (1) = .399 ALPHA (2) = -.294 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0206 -.1399 .0331 .1638 .0565 .2145 .0811 .2038 .3264 -.1824 .0440 .1380 .0227 .0853 .0233

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1373 .3040 -.0573 .0427 -.0973 -.0253 -.1680 -.1480 -.2086 -.1280 .5144 .5323 .5177 .2598 .2645

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2778 -.0593 .0205 -.0669 .0325 -.1409 -.0675 .0231 .0845 .0069 .0819

ARC 150-1-14(OA220) TPS+ADF

(XNLP04)

MACH (1) = .397 ALPHA (3) = 1.701 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0361	-.0726	.0582	.1935	.0737	.2083	.0528	.2157	.2762	-.1336	.0436	.1203	.0254	.1075	.0254
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1358	.2481	-.0452	.0483	-.0876	-.0109	-.1556	-.1381	-.1966	-.1347	.5324	.5035	.4687	.2197	.2258
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2406	-.0425	.0467	-.0495	.0441	-.1309	-.0434	.0360	.0952	.0233	.0937				

MACH (1) = .397 ALPHA (4) = 3.736 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0347	-.0098	.0588	.1960	.0830	.2202	.0568	.2175	.2281	-.0801	.0426	.1314	.0285	.0937	.0312
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1394	.2113	-.0340	.0628	-.0784	-.0037	-.1496	-.1301	-.1960	-.1254	.5249	.4807	.5168	.1879	.1819
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1980	-.0279	.0528	-.0353	.0615	-.1100	-.0340	.0353	.1012	.0358	.0967				

MACH (1) = .399 ALPHA (5) = 5.711 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0364	.0603	.0704	.2025	.0683	.2119	.0590	.2079	.1695	-.0242	.0234	.1188	.0261	.0955	.0220
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1348	.1575	-.0307	.0621	-.0821	.0007	-.1388	-.1288	-.2008	-.1188	.4961	.4349	.4256	.1498	.1478

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (1) = .399 ALPHA (5) = 5.711

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000 .

SET	.000	.1551	-.0140	.0483	-.0325	.0583	-.0946	-.0118	.0490	.1031	.0331	.0956
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MACH (1) = .399 ALPHA (6) = 7.756 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET	.000	1.0292	.1249	.0627	.2215	.0781	.1968	.0400	.1961	.1256	.0339	.0258	.1025	.0171	.0938	.0205
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TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET	.000	.1251	.1111	-.0302	.0598	-.0735	.0045	-.1376	-.1176	-.1976	-.1262	.4479	.3967	.3874	.1247	.1167
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TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET	.000	.1274	-.0262	.0534	-.0353	.0607	-.0600	.0007	.0520	.1074	.0312	.0891
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MACH (1) = .400 ALPHA (7) = 9.730 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET	.000	1.0155	.1786	.0051	.2125	.0709	.1925	.0264	.1879	.0753	.0759	.0097	.0855	.0051	.0788	.0124
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TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET	.000	.1160	.0735	-.0341	.0622	-.0660	.0091	-.1384	-.1218	-.1902	-.1171	.4077	.3706	.3514	.0908	.0855
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TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET	.000	.0922	-.0195	.0436	-.0434	.0649	-.0647	.0151	.0642	.1121	.0355	.0905
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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (1) = .401 ALPHA (8) = 12.099 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9856	.2582	-.0018	.1918	.0524	.1634	.0259	.1640	.0173	.1556	-.0243	.0556	-.0071	.0722	-.0111
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0953	.0259	-.0395	.0510	-.0731	.0074	-.1392	-.1273	-.1933	-.1187	.3860	.3228	.3280	.0583	.0504
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0623	-.0408	.0312	-.0494	.0603	-.0679	.0008	.0510	.0993	.0285	.0752				

MACH (1) = .401 ALPHA (9) = 15.937 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9151	.3735	-.0133	.1394	.0132	.1097	-.0093	.0964	-.0679	.2681	-.0738	-.0071	-.0593	.0233	-.0567
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0425	-.0461	-.0672	.0200	-.1049	-.0183	-.1505	-.1241	-.2073	-.1413	.3156	.2727	.2516	.0079	.0039
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0112	-.0715	.0006	-.0708	.0317	-.0833	-.0073	.0284	.0680	.0019	.0362				

MACH (1) = .402 ALPHA (10) = 19.946 RN/L = 2.6123 Q(PSF) = 212.64 P = 1907.9 PO = 2129.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.7821	.4937	-.1071	.0627	-.0742	.0409	-.0854	.0133	-.1764	.3678	-.1687	-.1029	-.1154	-.0411	-.1332
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0411	-.1312	-.1266	-.0266	-.1312	-.0536	-.1779	-.1647	-.2424	-.1687	.1868	.2019	.1423	-.0492	-.0551

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (1) = .402 ALPHA (10) = 19.946

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0466 -.1233 -.0742 -.1295 -.0051 -.1012 -.0433 -.0071 .0344 -.0498 -.0341

MACH (2) = .621 ALPHA (1) = -2.420 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0501 -.1836 -.0030 .1670 .0946 .2130 .0949 .2328 .4373 -.2446 .0537 .1554 .0544 .1541 .0158

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1705 .3660 -.0485 .0496 -.1022 -.0263 -.1804 -.1402 -.2289 -.1334 .6147 .6192 .5961 .3110 .3181

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3226 -.0903 .0197 -.1101 .0067 -.1886 -.0789 -.0095 .0735 -.0068 .0853

MACH (2) = .621 ALPHA (2) = -.435 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0738 -.1355 .0303 .1985 .1025 .2395 .1015 .2298 .3793 -.2032 .0488 .1475 .0440 .1482 .0122

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1719 .3079 -.0531 .0639 -.0894 -.0152 -.1711 -.1332 -.2222 -.1177 .5824 .5830 .5554 .2627 .2726

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2813 -.0644 .0271 -.0728 .0471 -.1614 -.0560 .0113 .0915 .0059 .0855

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (2) = .621 ALPHA (3) = 1.580 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0882 -.0676 .0490 .2220 .1213 .2480 .0966 .2596 .3228 -.1438 .0550 .1557 .0508 .1580 .0533

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1702 .2629 -.0317 .0749 -.0754 -.0003 -.1620 -.1180 -.2134 -.1062 .5473 .5745 .5530 .2368 .2368

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2426 -.0407 .0512 -.0469 .0660 -.1295 -.0414 .0284 .1001 .0214 .1034

MACH (2) = .622 ALPHA (4) = 3.685 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0927 .0073 .0340 .2380 .1243 .2499 .0954 .2666 .2782 -.0712 .0523 .1486 .0548 .1601 .0535

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1694 .2146 -.0230 .0827 -.0665 .0116 -.1401 -.1068 -.1923 -.1027 .5165 .5478 .5203 .2011 .1959

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2027 -.0191 .0658 -.0395 .0707 -.1137 -.0135 .0446 .1160 .0351 .1096

MACH (2) = .622 ALPHA (5) = 5.700 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0934 .0786 .0458 .2486 .1315 .2486 .0926 .2479 .2240 -.0162 .0516 .1411 .0538 .1530 .0622

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1601 .1710 -.0126 .0930 -.0544 .0236 -.1321 -.1041 -.1886 -.0948 .4902 .5117 .4835 .1703 .1623

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (2) = .622 ALPHA (5) = 5.700

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1780 -.0181 .0695 -.0270 .0792 -.0902 .0012 .0509 .1135 .0478 .1154

MACH (2) = .620 ALPHA (6) = 7.766 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0874 .1418 .0861 .2578 .1180 .2413 .0848 .2426 .1601 .0474 .0260 .1248 .0424 .1419 .0453

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1519 .1223 -.0158 .0888 -.0574 .0205 -.1295 -.0960 -.1926 -.0944 .4466 .4842 .4254 .1306 .1235

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1364 -.0130 .0678 -.0343 .0687 -.0769 .0101 .0459 .1174 .0348 .1074

MACH (2) = .622 ALPHA (7) = 9.902 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0753 .2155 .0707 .2463 .0992 .2258 .0655 .2264 .1069 .1063 .0107 .1032 .0332 .1331 .0325

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1398 .0724 -.0172 .0888 -.0561 .0332 -.1248 -.0985 -.1843 -.0940 .4179 .4486 .3938 .0909 .0915

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1009 -.0272 .0520 -.0401 .0707 -.0697 .0183 .0552 .1140 .0365 .0909

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (2) = .619 ALPHA (8) = 11.765 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .10526 .2634 .0571 .2307 .0939 .2078 .0510 .1978 .0549 .1627 -.0050 .0847 .0244 .1124 .0234

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

-SET

.000 .1205 .0302 -.0218 .0805 -.0601 .0266 -.1311 -.0988 -.1872 -.0005 .3803 .4276 .3507 .0652 .0594

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0717 -.0334 .0468 -.0461 .0688 -.0726 .0100 .0523 .1136 .0208 .0825

MACH (2) = .620 ALPHA (9) = 15.927 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9856 .4074 .0116 .1897 .0428 .1523 -.0016 .1298 -.0461 .2870 -.0663 .0094 -.0244 .0644 -.0341

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0651 -.0534 -.0628 .0464 -.0853 .0049 -.1436 -.1082 -.2176 -.1185 .3056 .3220 .2648 .0055 .0003

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0065 -.0773 .0055 -.0782 .0380 -.0885 -.0116 .0200 .0728 -.0047 .0313

MACH (2) = .620 ALPHA (10) = 19.997 RN/L = 3.3818 Q(PSF) = 442.41 P = 1639.6 PO = 2126.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8636 .5255 -.0798 .1162 -.0240 .0694 -.0740 .0469 -.1394 .4076 -.1515 -.0800 -.0880 -.0084 -.1019

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0184 -.1276 -.1054 -.0036 -.1086 -.0297 -.1644 -.1350 -.2349 -.1489 .2253 .2527 .1553 -.0430 -.0498

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (2) = .620 ALPHA (10) = 19.997

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 -.0424 -.1289 -.0537 -.1198 .0092 -.1023 -.0218 -.0086 .0382 -.0558 -.0237

MACH (3) = .699 ALPHA (1) = -2.410 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0746 -.1790 .0119 .1786 .1019 .2402 .0984 .2488 .4551 -.2388 .0541 .1554 .0541 .1614 .0400

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1836 .3801 -.0546 .0554 -.0912 -.0137 -.1828 -.1503 -.2428 -.1394 .6464 .6591 .6186 .3361 .3410

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3416 -.0655 .0338 -.0922 .0322 -.1635 -.0727 .0086 .0897 .0023 .0969

MACH (3) = .700 ALPHA (2) = -.344 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1039 -.1155 .0349 .2105 .1168 .2646 .1049 .2559 .3999 -.1846 .0625 .1680 .0579 .1623 .0582

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1926 .3394 -.0313 .0787 -.0813 .0001 -.1632 -.1362 -.2118 -.1151 .6012 .6298 .5785 .2981 .2992

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3081 -.0429 .0565 -.0455 .0711 -.1296 -.0404 .0357 .1133 .0267 .1158

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (3) = .700 ALPHA (3) = 1.691 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.1161	-.0481	.0584	.2376	.1196	.2549	.1001	.2814	.3321	-.1374	.0585	.1556	.0509	.1650
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1851	.2800	-.0304	.0826	-.0710	.0096	-.1602	-.1327	-.2181	-.1189	.5662	.5972	.5465	.2498
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.2649	-.0345	.0658	-.0403	.0806	-.1215	-.0290	.0308	.1139	.0403	.1140			

MACH (3) = .701 ALPHA (4) = 3.777 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.1216	.0309	.0523	.2463	.1235	.2649	.1018	.2822	.2840	-.0619	.0611	.1596	.0576	.1693
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1861	.2264	-.0146	.0985	-.0613	.0200	-.1316	-.1065	-.1933	-.0992	.5285	.5497	.5098	.2165
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.2211	-.0140	.0769	-.0196	.0869	-.0986	-.0020	.0618	.1256	.0464	.1232			

MACH (3) = .701 ALPHA (5) = 5.711 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.1224	.0915	.0603	.2629	.1266	.2648	.1049	.2753	.2331	-.0091	.0569	.1534	.0596	.1645
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1785	.1812	-.0066	.1007	-.0490	.0299	-.1215	-.0998	-.1863	-.0901	.5093	.5182	.4764	.1799

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (3) = .701 ALPHA (5) = 5.711

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1888 .0002 .0820 -.0159 .0952 -.0819 .0141 .0665 .1317 .0605 .1247

MACH (3) = .701 ALPHA (6) = 7.746 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1166 .1654 .0616 .2672 .1286 .2631 .0968 .2637 .1810 .0604 .0466 .1408 .0499 .1614 .0550

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1735 .1433 -.0098 .1074 -.0521 .0369 -.1191 -.0888 -.1806 -.0870 .4721 .4770 .4417 .1481 .1481

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1546 -.0054 .0779 -.0169 .0905 -.0704 .0295 .0643 .1340 .0561 .1237

MACH (3) = .700 ALPHA (7) = 9.760 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1029 .2289 .0809 .2570 .1148 .2445 .0828 .2361 .1217 .1147 .0324 .1212 .0421 .1423 .0408

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1545 .0952 -.0129 .0952 -.0548 .0372 -.1206 -.0976 -.1802 -.0862 .4176 .4381 .4087 .1110 .1050

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1175 -.0183 .0698 -.0293 .0896 -.0678 .0246 .0590 .1310 .0412 .1109

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (3) = .701 ALPHA (8) = 11.826 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0793	.3058	.0694	.2474	.0905	.2242	.0543	.2158	.0719	.1758	-.0059	.0879	.0273	.1285	.0287
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1336	.0568	-.0132	.0985	-.0532	.0438	-.1189	-.0978	-.1733	-.0865	.3905	.4056	.3722	.0843	.0767
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0900	-.0294	.0586	-.0334	.0786	-.0607	.0207	.0624	.1260	.0358	.0932				

MACH (3) = .699 ALPHA (9) = 15.987 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0081	.4282	.0210	.2048	.0528	.1646	.0064	.1594	-.0302	.2997	-.0628	.0167	-.0162	.0810	-.0308
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0728	-.0403	-.0555	.0584	-.0797	.0142	-.1285	-.0981	-.1942	-.1025	.3021	.3289	.2621	.0213	.0129
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0181	-.0609	.0080	-.0750	.0552	-.0807	-.0023	.0314	.0913	.0039	.0399				

MACH (3) = .699 ALPHA (10) = 20.007 RN/L = 3.6574 Q(PSF) = 525.19 P = 1532.9 PO = 2125.3

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9019	.5481	-.0780	.1217	-.0189	.0878	-.0750	.0666	-.1387	.4166	-.1381	-.0665	-.0892	.0070	-.1093
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0114	-.1288	-.1031	-.0017	-.1142	-.0242	-.1630	-.1389	-.2317	-.1408	.2092	.2532	.1789	-.0360	-.0468

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (3) = .699 ALPHA (10) = 20.007

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0449 -.1256 -.0482 -.1174 -.0034 -.1187 -.0352 -.0086 .0395 -.0633 -.0267

MACH (4) = .799 ALPHA (1) = -2.349 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1233 -.1539 .0280 .2214 .1259 .2650 .1223 .2837 .4780 -.2340 .0825 .1886 .0786 .1888 .0709

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2133 .4074 -.0360 .0795 -.0859 -.0031 -.1767 -.1443 -.2514 -.1344 .6759 .6963 .6608 .3629 .3671

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3741 -.0512 .0613 -.0816 .0576 -.1650 -.0505 .0216 .1138 .0214 .1210

MACH (4) = .800 ALPHA (2) = -.456 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1465 -.0889 .0550 .2439 .1362 .2884 .1195 .2850 .4217 -.1791 .0922 .1925 .0790 .1946 .0781

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2188 .3635 -.0176 .0986 -.0626 .0176 -.1538 -.1267 -.2237 -.1111 .6416 .6598 .6330 .3239 .3250

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3319 -.0309 .0651 -.0329 .0973 -.1260 -.0158 .0457 .1280 .0476 .1372

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (4) = .797 ALPHA (3) = 1.600 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1544 -.0185 .0771 .2697 .1499 .2975 .1297 .3133 .3678 -.1187 .0940 .1948 .0878 .1904 .0835

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2142 .3175 .0027 .1114 -.0534 .0306 -.1381 -.1127 -.2052 -.0910 .6076 .6188 .5909 .2823 .2832

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2940 -.0024 .0911 -.0113 .1076 -.1028 .0015 .0604 .1343 .0574 .1375

MACH (4) = .802 ALPHA (4) = 3.665 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1648 .0532 .0795 .2869 .1575 .2989 .1348 .3148 .3161 -.0534 .0900 .1937 .0913 .1919 .0879

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2153 .2625 .0091 .1249 -.0362 .0462 -.1158 -.0909 -.1849 -.0767 .5616 .5826 .5605 .2428 .2389

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2505 .0121 .1002 .0047 .1189 -.0838 .0204 .0768 .1446 .0777 .1529

MACH (4) = .801 ALPHA (5) = 5.711 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1631 .1234 .0912 .2960 .1533 .2956 .1324 .3079 .2665 .0144 .0905 .1770 .0910 .1956 .0873

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2084 .2220 .0183 .1276 -.0287 .0634 -.0984 -.0815 -.1649 -.0556 .5305 .5502 .5243 .2098 .2075

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (4) = .801 ALPHA (5) = 5.711

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2175 .0210 .1058 .0075 .1240 -.0629 .0415 .0787 .1586 .0802 .1549

MACH (4) = .800 ALPHA (6) = 7.766 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1555 .1905 .1059 .2986 .1492 .2943 .1175 .2938 .2110 .0772 .0777 .1705 .0806 .1856 .0783

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1979 .1753 .0211 .1334 -.0202 .0679 -.0941 -.0686 -.1514 -.0427 .4876 .5210 .4785 .1738 .1713

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1818 .0245 .1066 .0062 .1209 -.0477 .0502 .0879 .1624 .0820 .1510

MACH (4) = .799 ALPHA (7) = 9.831 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1443 .2705 .1124 .2999 .1350 .2718 .1087 .2661 .1486 .1459 .0544 .1456 .0761 .1655 .0576

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1814 .1267 .0114 .1258 -.0276 .0681 -.0920 -.0692 -.1430 -.0396 .4534 .4784 .4509 .1345 .1322

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1464 .0165 .0969 -.0052 .1144 -.0437 .0518 .0905 .1576 .0720 .1368

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ARC 150-1-14(OA220) TPS+AOP

(XNLP04)

MACH (4) = .800 ALPHA (8) = 11.917 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1250 .3331 .0886 .2922 .1396 .2628 .0895 .2558 .1008 .2014 .0456 .1277 .0601 .1536 .0493

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1659 .0794 .0094 .1234 -.0216 .0708 -.0927 -.0645 -.1400 -.0370 .4239 .4521 .3921 .1066 .1041

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1118 .0050 .0836 -.0079 .1111 -.0340 .0483 .0886 .1485 .0706 .1242

MACH (4) = .801 ALPHA (9) = 15.997 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0628 .4604 .0424 .2464 .0824 .2070 .0390 .1974 -.0026 .3324 -.0044 .0593 .0208 .1042 .0084

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1060 -.0056 -.0168 .0955 -.0480 .0442 -.0959 -.0716 -.1525 -.0517 .3390 .3710 .2993 .0493 .0376

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0463 -.0379 .0381 -.0447 .0776 -.0643 .0178 .0604 .1111 .0399 .0687

MACH (4) = .804 ALPHA (10) = 20.159 RN/L = 3.8550 Q(PSF) = 624.78 P = 1393.4 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9825 .5975 -.0520 .1800 .0263 .1258 -.0302 .1074 -.1131 .4538 -.0779 -.0290 -.0443 .0409 -.0775

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0192 -.0996 -.0594 .0365 -.0718 .0105 -.1191 -.0996 -.1698 -.0841 .2577 .2699 .2002 -.0084 -.0197

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (4) = .804 ALPHA (10) = 20.159

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0162 -.0976 -.0210 -.0929 .0320 -.0846 -.0043 .0100 .0706 -.0307 .0014

MACH (5) = .845 ALPHA (1) = -2.521 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1397 -.1486 .0399 .2224 .1197 .2737 .1065 .2904 .4824 -.2552 .0889 .1837 .0678 .1376 .0618

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2172 .4114 -.0454 .0792 -.0894 -.0037 -.1817 -.1643 -.2616 -.1432 .6881 .7034 .6742 .3713 .3781

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3877 -.0551 .0627 -.0803 .0611 -.1672 -.0546 .0244 .1202 .0263 .1205

MACH (5) = .848 ALPHA (2) = -.415 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1673 -.0538 .1118 .2703 .1570 .3293 .1368 .3163 .4501 -.1454 .1171 .2174 .1027 .1744 .0935

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2500 .3857 .0064 .1251 -.0428 .0392 -.1319 -.1109 -.1987 -.0894 .6528 .6717 .6368 .3459 .3547

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3570 -.0003 .0989 .0021 .1236 -.1005 .0120 .0734 .1588 .0755 .1624

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (5) = .849 ALPHA (3) = 1.762 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1829	.0128	.0900	.2929	.1619	.3286	.1492	.3418	.3826	-.0912	.1138	.2101	.1035	.1741	.0984
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2441	.3257	.0179	.1306	-.0339	.0537	-.1103	-.0965	-.1766	-.0704	.6209	.6351	.6005	.3016	.3082
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3139	.0153	.1193	.0125	.1309	-.0764	.0314	.0850	.1645	.0840	.1630				

MACH (5) = .848 ALPHA (4) = 3.777 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1862	.0846	.1095	.3105	.1728	.3346	.1449	.3395	.3276	-.0243	.1205	.2075	.1076	.1736	.1029
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2448	.2846	.0274	.1422	-.0171	.0720	-.0898	-.0735	-.1514	-.0467	.5801	.6039	.5729	.2660	.2681
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2762	.0306	.1222	.0252	.1434	-.0586	.0425	.0953	.1754	.0997	.1770				

MACH (5) = .849 ALPHA (5) = 5.731 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1869	.1512	.1032	.3179	.1746	.3309	.1482	.3290	.2837	.0394	.1142	.2001	.1067	.1699	.1065
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2328	.2360	.0400	.1495	-.0065	.0805	-.0764	-.0573	-.1317	-.0266	.5446	.5760	.5518	.2352	.2276

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (5) = .849 ALPHA (5) = 5.731

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2359 .0392 .1277 .0265 .1419 -.0467 .0541 .1085 .1782 .1026 .1783

MACH (5) = .850 ALPHA (6) = 7.837 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1800 .2197 .1415 .3237 .1714 .3203 .1332 .3172 .2233 .1007 .0985 .1852 .0991 .1637 .0955

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2247 .1916 .0416 .1513 -.0025 .0871 -.0609 -.0412 -.1150 -.0126 .5122 .5415 .5046 .1929 .1923

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2052 .0431 .1278 .0234 .1422 -.0321 .0682 .1121 .1786 .1053 .1744

MACH (5) = .849 ALPHA (7) = 9.842 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1699 .2934 .1381 .3224 .1677 .3152 .1209 .3037 .1707 .1618 .0795 .1720 .0893 .1502 .0836

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2109 .1414 .0422 .1513 .0004 .0993 -.0593 -.0437 -.1071 -.0058 .4834 .5006 .4652 .1624 .1594

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1652 .0341 .1213 .0204 .1400 -.0227 .0729 .1107 .1760 .1024 .1595

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (5) = .851 ALPHA (8) = 12.028 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1449 .3598 .1040 .3045 .1390 .2929 .1033 .2725 .1107 .2314 .0523 .1455 .0735 .1329 .0630

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1830 .0946 .0262 .1387 -.0090 .0880 -.0674 -.0437 -.0977 -.0054 .4415 .4713 .4197 .1227 .1192

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1278 .0203 .1027 .0067 .1280 -.0206 .0668 .1104 .1699 .0861 .1401

MACH (5) = .849 ALPHA (9) = 16.008 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0925 .4901 .0702 .2760 .1006 .2398 .0803 .2155 .0071 .3574 .0228 .0838 .0455 .0956 .0241

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1290 .0110 .0121 .1224 -.0299 .0706 -.0615 -.0438 -.1099 -.0087 .3727 .3983 .3167 .0644 .0592

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0667 -.0166 .0620 -.0208 .0997 -.0346 .0465 .0883 .1383 .0626 .0969

MACH (5) = .848 ALPHA (10) = 20.321 RN/L = 3.9312 Q(PSF) = 668.62 P = 1325.7 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9977 .6269 -.0137 .1994 .0680 .1649 .0152 .1313 -.0933 .4957 -.0464 .0020 -.0081 .0296 -.0584

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0435 -.0824 -.0267 .0484 -.0496 .0358 -.0847 -.0685 -.1293 -.0430 .2503 .2908 .1997 .0121 .0050

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (5) = .848 ALPHA (10) = 20.321

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0046 -.0747 -.0075 -.0756 .0505 -.0538 .0121 .0397 .0882 -.0056 .0220

MACH (6) = .902 ALPHA (1) = -2.420 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1891 -.0902 .0931 .2910 .2335 .3274 .2169 .3424 .5462 -.1943 .1637 .2835 .1637 .2489 .1546

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2831 .4674 .0380 .1436 -.0121 .0664 -.1098 -.0595 -.1852 -.0537 .7233 .7408 .7120 .4132 .4210

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .4340 -.0117 .1092 -.0283 .1026 -.1244 .0044 .0670 .1635 .0717 .1778

MACH (6) = .901 ALPHA (2) = -.344 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1990 -.0227 .1433 .3170 .2384 .3633 .2247 .3506 .4940 -.1236 .1629 .2773 .1693 .2475 .1492

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2925 .4197 .0533 .1657 .0070 .0842 -.0830 -.0364 -.1482 -.0265 .6893 .7120 .6861 .3733 .3839

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3871 .0129 .1288 .0204 .1538 -.0795 .0382 .0967 .1871 .0957 .1923

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ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (6) = .901 ALPHA (3) = 1.681 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2116 .0369 .1285 .3409 .2493 .3740 .2208 .3890 .4382 -.0675 .1712 .2765 .1635 .2467 .1565

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2929 .3698 .0631 .1754 .0211 .1010 -.0627 -.0171 -.1146 .0050 .6573 .6748 .6439 .3343 .3411

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3491 .0375 .1456 .0381 .1666 -.0524 .0583 .1138 .1956 .1083 .2005

MACH (6) = .900 ALPHA (4) = 3.756 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2117 .1100 .1485 .3564 .2595 .3714 .2181 .3764 .3809 -.0008 .1658 .2709 .1699 .2410 .1594

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2782 .3166 .0731 .1866 .0286 .1126 -.0444 -.0069 -.0964 .0185 .6240 .6554 .6304 .2978 .3024

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3086 .0560 .1546 .0510 .1714 -.0366 .0733 .1230 .2029 .1252 .2068

MACH (6) = .899 ALPHA (5) = 5.873 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2112 .1767 .1449 .3683 .2529 .3659 .2129 .3711 .3278 .0592 .1663 .2607 .1665 .2350 .1536

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2729 .2675 .0809 .1911 .0394 .1242 -.0295 .0009 -.0750 .0386 .5812 .6079 .5895 .2575 .2589

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (6) = .899 ALPHA (5) = 5.873

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2669 .0668 .1582 .0569 .1738 -.0189 .0860 .1340 .2076 .1320 .2087

MACH (6) = .900 ALPHA (6) = 7.906 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.2045 .2424 .1765 .3689 .2438 .3627 .2013 .3623 .2687 .1252 .1510 .2412 .1627 .2253 .1502

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2563 .2209 .0866 .1917 .0461 .1261 -.0223 .0093 -.0571 .0490 .5506 .5753 .5432 .2250 .2230

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2292 .0671 .1583 .0513 .1724 -.0053 .0954 .1491 .2112 .1351 .2033

MACH (6) = .900 ALPHA (7) = 10.054 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1959 .3225 .1706 .3655 .2027 .3441 .1928 .3399 .2181 .1980 .1385 .2316 .1550 .2081 .1345

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2427 .1703 .0767 .1906 .0472 .1357 -.0146 .0170 -.0451 .0582 .5136 .5347 .4979 .1916 .1853

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1958 .0653 .1502 .0538 .1700 .0108 .1024 .1448 .2077 .1303 .1907

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (6) = .899 ALPHA (8) = 12.120 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1752	.3926	.1531	.3515	.1933	.3343	.1725	.3167	.1594	.2591	.1255	.1979	.1421	.1908	.1179
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2183	.1314	.0655	.1820	.0433	.1330	-.0186	.0125	-.0427	.0546	.4717	.4956	.4366	.1547	.1490
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1612	.0465	.1300	.0423	.1622	.0126	.0979	.1401	.1996	.1192	.1707				

MACH (6) = .900 ALPHA (9) = 16.170 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1249	.5141	.1126	.3102	.1780	.2723	.1261	.2615	.0534	.3850	.0778	.1290	.0992	.1484	.0680
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1606	.0357	.0430	.1586	.0124	.1075	-.0211	-.0005	-.0577	.0460	.4006	.4337	.3485	.0944	.0894
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0958	.0079	.0898	.0094	.1293	-.0015	.0748	.1114	.1683	.0939	.1211				

MACH (6) = .900 ALPHA (10) = 20.412 RN/L = 3.9995 Q(PSF) = 712.08 P = 1254.3 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0489	.6548	.0062	.2434	.1279	.2112	.0612	.1811	-.0588	.5159	.0041	.0570	.0413	.0860	-.0225
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0746	-.0569	-.0027	.0953	-.0144	.0729	-.0448	-.0259	-.0750	.0166	.2805	.3183	.2302	.0431	.0298

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (6) = .900 ALPHA (10) = 20.412

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0356 -.0533 .0320 -.0379 .0880 -.0359 .0505 .0632 .1239 .0179 .0476

MACH (7) = .950 ALPHA (1) = -2.460 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.2094 -.0390 .1352 .3218 .2172 .3692 .2136 .3861 .5709 -.1645 .1827 .2896 .1716 .2894 .1666

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .3144 .5017 .0576 .1805 .0171 .1032 -.0669 -.0453 -.1276 -.0218 .7648 .7738 .7413 .4570 .4629

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4693 .0417 .1580 .0150 .1582 -.0797 .0460 .1242 .2162 .1246 .2211

MACH (7) = .949 ALPHA (2) = -.415 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.2244 .0212 .1491 .3459 .2259 .3899 .2148 .3831 .5089 -.0978 .1828 .2940 .1703 .2898 .1644

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .3206 .4536 .0736 .1971 .0310 .1198 -.0479 -.0234 -.0946 .0034 .7214 .7433 .7140 .4123 .4196

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4275 .0637 .1669 .0646 .1944 -.0355 .0820 .1402 .2286 .1381 .2348

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (7) = .954 ALPHA (3) = 1.671 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2376 .0917 .1711 .3764 .2435 .3996 .2269 .4185 .4652 -.0218 .1892 .2964 .1816 .2941 .1761

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3208 .4096 .0933 .2162 .0537 .1389 -.0187 .0023 -.0543 .0457 .6923 .7121 .6970 .3783 .3926

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3934 .0875 .1908 .0862 .2156 -.0078 .1097 .1571 .2460 .1620 .2506

MACH (7) = .953 ALPHA (4) = 3.706 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2401 .1619 .1674 .3906 .2511 .4016 .2274 .4131 .4043 .0411 .1896 .2905 .1810 .2962 .1801

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3151 .3614 .1015 .2264 .0656 .1520 .0006 .0227 -.0326 .0641 .6530 .6796 .6528 .3322 .3381

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3502 .1009 .1996 .0895 .2193 .0062 .1247 .1688 .2513 .1750 .2543

MACH (7) = .950 ALPHA (5) = 5.862 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2381 .2219 .1771 .3941 .2379 .3937 .2228 .4019 .3481 .1011 .1822 .2773 .1763 .2887 .1696

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3010 .3054 .1069 .2231 .0696 .1600 .0095 .0302 -.0155 .0774 .6082 .6400 .6122 .2942 .2969

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (7) = .950 ALPHA (5) = 5.862

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3038 .1055 .1963 .0909 .2157 .0196 .1257 .1740 .2481 .1748 .2497

MACH (7) = .949 ALPHA (6) = 7.928 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2333 .2997 .2123 .4051 .2447 .3922 .2140 .3884 .2925 .1690 .1781 .2681 .1780 .2802 .1650

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2910 .2666 .1151 .2278 .0763 .1659 .0221 .0452 .0001 .0970 .5777 .6153 .5644 .2587 .2585

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2696 .1067 .1960 .0905 .2144 .0319 .1394 .1787 .2510 .1726 .2483

MACH (7) = .948 ALPHA (7) = 9.993 RN/L = 3.9271 Q(PSF) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2258 .3568 .2000 .4035 .2490 .3658 .1994 .3673 .2417 .2258 .1629 .2420 .1689 .2711 .1581

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2721 .2077 .1058 .2242 .0756 .1650 .0233 .0476 .0074 .1028 .5427 .5782 .5361 .2240 .2200

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2269 .0951 .1803 .0836 .2088 .0426 .1380 .1753 .2448 .1681 .2307

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (7) = .950 ALPHA (8) = 12.059 RN/L = 3.9271 Q(P5F) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2044 .4286 .1756 .3944 .2154 .3585 .1821 .3505 .1904 .2995 .1475 .2256 .1551 .2564 .1345

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2518 .1720 .1006 .2125 .0700 .1691 .0170 .0499 .0126 .1075 .5131 .5477 .4841 .1918 .1823

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1956 .0815 .1702 .0728 .2010 .0417 .1410 .1727 .2382 .1601 .2143

MACH (7) = .945 ALPHA (9) = 16.271 RN/L = 3.9271 Q(P5F) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1492 .5554 .1264 .3568 .1641 .3028 .1401 .2920 .0747 .4236 .1053 .1622 .1218 .2081 .0865

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1877 .0717 .0667 .1860 .0344 .1382 .0094 .0388 -.0073 .0930 .4289 .4575 .3540 .1228 .1160

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1226 .0331 .1222 .0354 .1639 .0228 .1071 .1369 .1947 .1241 .1574

MACH (7) = .938 ALPHA (10) = 20.503 RN/L = 3.9271 Q(P5F) = 749.29 P = 1188.7 PO = 2122.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0775 .6859 .0188 .2842 .1275 .2273 .0700 .2030 -.0408 .5475 .0361 .0856 .0647 .1452 -.0080

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0993 -.0237 .0313 .1187 .0042 .1001 -.0254 .0086 -.0328 .0587 .3097 .3696 .2500 .0644 .0557

ARC 150-1-14(OA220) TPS+AOP

(XNLP04)

MACH (7) = .938 ALPHA (10) = 20.503

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0593 -.0305 .0524 -.0195 .1129 -.0117 .0768 .0836 .1483 .0435 .0638

MACH (8) = .982 ALPHA (1) = -2.430 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2329 -.0038 .1624 .3545 .2556 .3938 .2455 .4083 .5916 -.1276 .2111 .3230 .2024 .3188 .1965

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3382 .5286 .0957 .2133 .0543 .1387 -.0283 -.0053 -.0964 .0214 .7828 .7969 .7654 .4824 .4866

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4979 .0730 .1872 .0529 .1917 -.0462 .0775 .1520 .2459 .1547 .2559

MACH (8) = .979 ALPHA (2) = -.435 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2433 .0514 .1826 .3769 .2605 .4116 .2517 .4153 .5372 -.0675 .2099 .3213 .2039 .3217 .1959

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3485 .4754 .1092 .2277 .0653 .1511 -.0096 .0136 -.0552 .0464 .7404 .7663 .7391 .4392 .4434

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4512 .0903 .1906 .0930 .2220 -.0086 .1125 .1695 .2562 .1728 .2654

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (8) = .976 ALPHA (3) = 1.741 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2529	.1190	.1939	.4014	.2741	.4177	.2544	.4398	.4812	.0021	.2137	.3241	.2100	.3172	.2016
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.3405	.4184	.1199	.2364	.0780	.1647	.0091	.0338	-.0237	.0761	.7099	.7334	.7066	.3940	.3964
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.4036	.1087	.2085	.1072	.2308	.0187	.1264	.1802	.2617	.1856	.2710				

MACH (8) = .978 ALPHA (4) = 3.817 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2566	.1842	.1996	.4173	.2856	.4212	.2529	.4323	.4312	.0683	.2168	.3190	.2078	.3181	.2013
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.3401	.3807	.1344	.2482	.0923	.1799	.0280	.0536	.0047	.1005	.6744	.7054	.6730	.3599	.3590
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3691	.1247	.2198	.1167	.2385	.0334	.1361	.1920	.2749	.1980	.2753				

MACH (8) = .980 ALPHA (5) = 5.832 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2557	.2582	.2070	.4293	.2775	.4184	.2520	.4282	.3775	.1305	.2095	.3116	.2134	.3107	.2024
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.3289	.3365	.1406	.2524	.1029	.1933	.0461	.0691	.0249	.1243	.6400	.6801	.6448	.3220	.3218

ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (8) = .980 ALPHA (5) = 5.832

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3297 .1334 .2251 .1170 .2443 .0479 .1593 .2031 .2760 .2040 .2823

MACH (8) = .979 ALPHA (6) = 7.948 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2509 .3221 .2065 .4298 .2942 .4018 .2455 .4164 .3249 .1949 .2030 .2938 .2048 .3086 .1942

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3207 .2876 .1422 .2559 .1081 .1974 .0533 .0828 .0394 .1369 .6091 .6339 .5997 .2847 .2828

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2951 .1302 .2198 .1182 .2414 .0602 .1659 .2060 .2787 .2030 .2736

MACH (8) = .979 ALPHA (7) = 9.892 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2398 .3803 .2308 .4280 .2855 .4003 .2316 .3385 .2770 .2556 .1994 .2791 .2039 .2948 .1832

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3044 .2481 .1394 .2509 .1085 .1981 .0565 .0364 .0483 .1433 .5776 .6079 .5584 .2542 .2528

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2594 .1262 .2129 .1172 .2402 .0711 .1683 .2025 .2715 .1986 .2613

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ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (8) = .979 ALPHA (8) = 12.130 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2245	.4534	.2073	.4203	.2685	.3836	.2168	.3753	.2148	.3202	.1794	.2573	.1887	.2773	.1655
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2796	.1926	.1329	.2417	.1043	.1954	.0499	.0989	.0517	.1487	.5392	.5660	.5042	.2165	.2114
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2187	.1088	.1944	.1024	.2305	.0671	.1651	.1982	.2605	.1870	.2433				

MACH (8) = .978 ALPHA (9) = 16.342 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1764	.5865	.1565	.3783	.1935	.3325	.1701	.3241	.1020	.4491	.1412	.2021	.1594	.2339	.1196
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2161	.0998	.1000	.2164	.0653	.1641	.0406	.0737	.0363	.1332	.4443	.4808	.3764	.1501	.1441
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1512	.0616	.1499	.0557	.1887	.0452	.1315	.1634	.2192	.1496	.1783				

MACH (8) = .977 ALPHA (10) = 20.533 RN/L = 3.9402 Q(PSF) = 771.42 P = 1148.7 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1021	.7124	.0649	.3204	.1809	.2652	.1141	.2488	-.0080	.5761	.0795	.1326	.1132	.1762	.0314
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1352	.0180	.0718	.1519	.0441	.1335	.0144	.0469	.0142	.1087	.3508	.3932	.2831	.0989	.0911

ORIGINAL PAGE IS

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (8) = .977 ALPHA (10) = 20.533

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0952 .0051 .0911 .0152 .1463 .0185 .1104 .1139 .1760 .0754 .0990

MACH (9) = 1.047 ALPHA (1) = -2.491 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2777 .0779 .2604 .4311 .3603 .4630 .3450 .4717 .6598 -.0313 .2977 .4100 .2958 .3993 .2885

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4216 .5921 .1852 .2877 .1396 .2160 .0620 .0970 .0023 .1146 .8461 .8486 .8298 .5376 .5453

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .5534 .1375 .2471 .1302 .2519 .0333 .1511 .2216 .3064 .2292 .3264

MACH (9) = 1.046 ALPHA (2) = -.466 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2915 .1387 .2722 .4572 .3653 .4856 .3485 .4753 .6081 .0063 .3033 .4105 .2973 .4001 .2917

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4221 .5384 .1942 .2995 .1569 .2268 .0779 .1089 .0238 .1398 .8028 .8156 .7842 .5024 .5047

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .5099 .1608 .2608 .1689 .2906 .0634 .1783 .2410 .3214 .2442 .3306

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (9) = 1.044 ALPHA (3) = 1.752 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2940 .1958 .2913 .4719 .3703 .4856 .3476 .5049 .5448 .0715 .2983 .4035 .2948 .3997 .2902

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .4125 .4894 .2043 .3077 .1674 .2387 .0929 .1216 .0749 .1804 .7644 .7901 .7608 .4547 .4618

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4697 .1758 .2771 .1744 .2973 .0863 .1982 .2489 .3271 .2557 .3399

MACH (9) = 1.042 ALPHA (4) = 3.827 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2939 .2632 .2869 .4809 .3796 .4924 .3452 .4598 .4918 .1392 .3001 .3966 .2994 .3903 .2890

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .4005 .4406 .2150 .3119 .1777 .2478 .1087 .1361 .0946 .1950 .7328 .7618 .7391 .4186 .4147

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4246 .1910 .2818 .1855 .2995 .1008 .2024 .2584 .3348 .2641 .3382

MACH (9) = 1.040 ALPHA (5) = 5.802 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2920 .3128 .2903 .4854 .3564 .4833 .3390 .4896 .4397 .1940 .2874 .3839 .3006 .3880 .2771

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3901 .3970 .2142 .3121 .1794 .2534 .1164 .1435 .1120 .2105 .6902 .7205 .6892 .3772 .3758

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (9) = 1.040 ALPHA (5) = 5.802

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3838 .1933 .2786 .1829 .3010 .1048 .2079 .2632 .3316 .2656 .3354

MACH (9) = 1.038 ALPHA (6) = 7.867 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2852 .3790 .2830 .4854 .3610 .4542 .3234 .4766 .3913 .2523 .2821 .3696 .2862 .3744 .2672

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3778 .3476 .2102 .3147 .1819 .2543 .1192 .1473 .1220 .2205 .6529 .6942 .6495 .3423 .3364

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3443 .1872 .2689 .1724 .2940 .1133 .2186 .2511 .3263 .2610 .3261

MACH (9) = 1.034 ALPHA (7) = 9.963 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2742 .4345 .2903 .4858 .3629 .4614 .3101 .4526 .3266 .3099 .2674 .3506 .2813 .3618 .2548

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3593 .2996 .2018 .3042 .1780 .2557 .1195 .1499 .1302 .2271 .6283 .6493 .6065 .3004 .2967

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3081 .1728 .2594 .1653 .2899 .1171 .2169 .2521 .3169 .2489 .3066

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (9) = 1.033 ALPHA (8) = 12.028 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2572 .5038 .2762 .4736 .3431 .4502 .2982 .4317 .2684 .3664 .2650 .3272 .2707 .3411 .2239

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3388 .2472 .1935 .2943 .1734 .2557 .1094 .1494 .1325 .2276 .5855 .6079 .5533 .2628 .2632

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2680 .1588 .2430 .1551 .2750 .1134 .2126 .2450 .3104 .2355 .2922

MACH (9) = 1.026 ALPHA (9) = 16.261 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2049 .6251 .2254 .4324 .2399 .3927 .2372 .3345 .1559 .4938 .2206 .2649 .2376 .2920 .1817

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2722 .1524 .1615 .2633 .1299 .2228 .0965 .1287 .1146 .2094 .4955 .5336 .4363 .1967 .1876

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1971 .1044 .1879 .1083 .2331 .0877 .1804 .2107 .2693 .1994 .2256

MACH (9) = 1.017 ALPHA (10) = 20.392 RN/L = 3.8386 Q(PSF) = 808.05 P = 1073.4 PO = 2123.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1346 .7423 .1378 .3705 .2059 .3179 .1651 .2999 .0306 .6096 .1483 .1839 .1842 .2395 .0984

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1787 .0578 .1171 .1958 .0947 .1752 .0585 .0925 .0806 .1751 .4002 .4310 .3250 .1394 .1264

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (9) = 1.017 ALPHA (10) = 20.392

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1313 .0407 .1134 .0554 .1851 .0382 .1419 .1488 .2084 .1124 .1320

MACH (10) = 1.094 ALPHA (1) = -2.450 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.3086 .1385 .3308 .4797 .4295 .5064 .4203 .5171 .7133 .0352 .3745 .4709 .3712 .4641 .3153

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4728 .6343 .2570 .3461 .2048 .2753 .1270 .1592 .0791 .1872 .8700 .8846 .8580 .5893 .5916

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .6002 .1896 .2966 .1975 .3126 .1009 .2061 .2818 .3580 .2867 .3780

MACH (10) = 1.092 ALPHA (2) = -.446 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.3226 .1957 .3454 .4999 .4349 .5436 .4245 .5207 .6580 .0797 .3737 .4677 .3689 .4605 .3585

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4757 .5836 .2672 .3547 .2215 .2843 .1413 .1718 .0971 .2108 .8431 .8665 .8218 .5484 .5506

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .5553 .2114 .3069 .2277 .3377 .1250 .2333 .3007 .3671 .3012 .3847

ARC 150-1-14(OA220) TPS+ADP

(XNLP04)

MACH (10) = 1.093 ALPHA (3) = 1.772 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.3280	.2488	.3591	.5188	.4406	.5416	.4262	.5320	.6019	.1473	.3748	.4563	.3741	.4527	.3557
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.4691	.5411	.2780	.3678	.2375	.2971	.1561	.1838	.1524	.2547	.8118	.8287	.8163	.5091	.5123
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.5194	.2399	.3258	.2473	.3529	.1521	.2550	.3131	.3833	.3164	.3849				

MACH (10) = 1.092 ALPHA (4) = 3.959 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.3278	.3068	.3621	.5268	.4488	.5421	.4177	.5489	.5457	.1906	.3704	.4488	.3729	.4300	.3588
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.4556	.4913	.2788	.3664	.2477	.3034	.1695	.1924	.1736	.2650	.7776	.8035	.7604	.4675	.4738
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.4747	.2515	.3322	.2443	.3440	.1570	.2590	.3208	.3809	.3205	.3895				

MACH (10) = 1.089 ALPHA (5) = 5.893 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.3245	.3745	.3556	.5284	.4445	.5408	.4092	.5364	.4948	.2484	.3624	.4366	.3674	.4186	.3457
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.4477	.4475	.2784	.3671	.2441	.3113	.1745	.2010	.1863	.2780	.7304	.7736	.7346	.4318	.4314

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ARC 150-1-14(0A220) TPS+ADP

(XNLP04)

MACH (10) = 1.089 ALPHA (5) = 5.893

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .4340 .2515 .3305 .2445 .3463 .1640 .2653 .3179 .3790 .3201 .3862

MACH (10) = 1.087 ALPHA (6) = 7.867 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.3200 .4216 .3664 .5271 .4334 .5232 .3953 .5309 .4433 .3089 .3549 .4229 .3625 .4126 .3287

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4352 .3965 .2780 .3690 .2430 .3118 .1737 .2020 .1965 .2851 .7144 .7321 .6937 .3922 .3896

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3955 .2423 .3214 .2309 .3474 .1674 .2675 .3143 .3750 .3115 .3757

MACH (10) = 1.085 ALPHA (7) = 10.024 RN/L = 3.8637 Q(PSF) = 837.41 P = 1005.1 PO = 2122.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.3026 .4891 .3552 .5250 .4375 .5190 .3814 .5105 .3865 .3703 .3420 .4022 .3585 .3961 .3132

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .4141 .3554 .2667 .3537 .2408 .3125 .1756 .2051 .2056 .2983 .6745 .6957 .6584 .3532 .3508

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3589 .2332 .3075 .2243 .3382 .1715 .2705 .3082 .3718 .3067 .3615

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05) (22 JUN 76)

PARAMETRIC DATA

BETA = 2.000 TPSCAP = .010

MACH (1) = .619 ALPHA (1) = -2.460 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0543 -.1952 -.0122 .1522 .0587 .2096 .0790 .2225 .4147 -.2454 .1212 .1377 .0252 .0877 .0120

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1519 .3701 -.0673 .0348 -.1134 -.0396 -.2002 -.1834 -.2498 -.1644 .6051 .6337 .6009 .3160 .3189

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3279 -.0922 .0216 -.1035 .0107 -.1802 -.0886 -.0080 .0755 -.0039 .0758

MACH (1) = .620 ALPHA (2) = -.375 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0786 -.1277 .0508 .1857 .0776 .2253 .0924 .2337 .3575 -.1727 .1305 .1447 .0341 .1044 .0241

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1666 .3284 -.0471 .0496 -.0949 -.0178 -.1764 -.1632 -.2296 -.1448 .5661 .6094 .5931 .2766 .2792

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2969 -.0565 .0357 -.0595 .0512 -.1456 -.0524 .0121 .0957 .0227 .0940

ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (1) = .618 ALPHA (3) = 1.661 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0865	-.0647	.0439	.2130	.0857	.2331	.0601	.2324	.3011	-.1263	.1336	.1462	.0345	.1096	.0400
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1653	.2777	-.0393	.0536	-.0827	-.0089	-.1646	-.1423	-.2193	-.1326	.5422	.5790	.5248	.2366	.2353
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2473	-.0371	.0604	-.0426	.0656	-.1198	-.0410	.0332	.1009	.0267	.1038				

MACH (1) = .618 ALPHA (4) = 3.675 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0928	.0060	.0439	.2229	.1073	.2378	.0766	.2403	.2537	-.0702	.1398	.1424	.0376	.1158	.0405
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1663	.2229	-.0249	.0796	-.0702	.0091	-.1413	-.1303	-.2025	-.1161	.5221	.5483	.4989	.2041	.2041
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2080	-.0129	.0636	-.0244	.0759	-.0962	-.0108	.0501	.1167	.0447	.1157				

MACH (1) = .620 ALPHA (5) = 5.731 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0935	.0770	.0462	.2325	.0996	.2345	.0703	.2210	.1994	-.0214	.1462	.1279	.0350	.1083	.0289
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1517	.1729	-.0228	.0736	-.0643	.0125	-.1434	-.1260	-.2025	-.1167	.5012	.5176	.4641	.1621	.1534

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ARC 150-1-14(0A220) TPS+ADP

(XNLP03)

MACH (1) = .620 ALPHA (5) = 5.731

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1714 -.0212 .0565 -.0362 .0732 -.0903 -.0098 .0488 .1115 .0433 .1106

MACH (1) = .618 ALPHA (6) = 7.796 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0868 .1389 .0795 .2336 .0957 .2284 .0500 .2216 .1325 .0318 .1450 .1194 .0265 .1094 .0149

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1411 .1185 -.0285 .0706 -.0757 .0074 -.1447 -.1295 -.2075 -.1178 .4530 .4762 .4133 .1174 .1187

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1261 -.0233 .0526 -.0403 .0623 -.0934 .0005 .0406 .1064 .0308 .0921

MACH (1) = .622 ALPHA (7) = 9.852 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0721 .2171 .0680 .2332 .0799 .2165 .0372 .2207 .0903 .1060 .1322 .0992 .0098 .1092 .0246

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1361 .0864 -.0232 .0752 -.0629 .0204 -.1359 -.1196 -.1968 -.1084 .4257 .4487 .3720 .0953 .0934

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0962 -.0167 .0456 -.0365 .0671 -.0628 .0077 .0520 .1104 .0350 .0941

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (1) = .621 ALPHA (8) = 11.917 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0585 .2850 .0074 .2268 .0767 .1977 .0253 .1925 .0390 .1612 .1092 .0778 -.0008 .0890 .0053

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1114 .0434 -.0300 .0726 -.0666 .0197 -.1311 -.1202 -.1914 -.1099 .3918 .3877 .3579 .0687 .0616

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0722 -.0313 .0382 -.0465 .0642 -.0603 .0135 .0571 .1078 .0230 .0822

MACH (1) = .620 ALPHA (9) = 16.008 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9771 .4091 -.0080 .1806 .0290 .1397 .0056 .1362 -.0630 .2870 .0551 .0079 -.0442 .0497 -.0439

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0561 -.0423 -.0667 .0432 -.0905 -.0021 -.1397 -.1195 -.2140 -.1327 .3139 .3354 .2550 .0104 .0030

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0033 -.0693 -.0063 -.0775 .0368 -.0791 -.0109 .0303 .0744 .0021 .0412

MACH (1) = .618 ALPHA (10) = 20.098 RN/L = 3.4376 Q(PSF) = 440.66 P = 1640.6 PO = 2125.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8555 .5346 -.0793 .1006 -.0418 .0595 -.0725 .0463 -.1587 .3982 .0000 -.0808 -.1019 -.0171 -.1129

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.0336 -.1213 -.1074 -.0168 -.1193 -.0394 -.1734 -.1530 -.2481 -.1624 .2241 .2480 .1661 -.0470 -.0602

ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (1) = .618 ALPHA (10) = 20.098

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 -.0470 -.1248 -.0593 -.1127 .0042 -.1085 -.0256 -.0266 .0353 -.0535 -.0232

MACH (2) = .703 ALPHA (1) = -2.470 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0871 -.1989 -.0116 .1700 .0757 .2213 .0714 .2345 .4340 -.2444 .1266 .1475 .0369 .1048 .0230

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1661 .3755 -.0678 .0353 -.1145 -.0458 -.2051 -.1843 -.2698 -.1734 .6355 .6524 .6221 .3248 .3258

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3336 -.0826 .0142 -.1081 .0128 -.1894 -.0895 -.0073 .0701 -.0048 .0707

MACH (2) = .704 ALPHA (2) = -.385 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1087 -.1144 .0767 .2141 .1022 .2420 .1111 .2587 .3830 -.1679 .1306 .1647 .0514 .1338 .0555

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1837 .3324 -.0323 .0686 -.0798 .0005 -.1703 -.1495 -.2268 -.1270 .5982 .6399 .5950 .2936 .2946

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3000 -.0411 .0518 -.0454 .0649 -.1249 -.0365 .0276 .1076 .0328 .1098ORIGINAL PAGE IS
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ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (2) = .703 ALPHA (3) = 1.671 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1193 -.0464 .0681 .2377 .1176 .2520 .1004 .2552 .3361 -.1141 .1459 .1642 .0594 .1325 .0656

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1865 .2923 -.0214 .0857 -.0644 .0111 -.1473 -.1235 -.2015 -.1095 .5801 .6002 .5601 .2576 .2544

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2662 -.0188 .0724 -.0316 .0821 -.1093 -.0098 .0450 .1259 .0460 .1173

MACH (2) = .704 ALPHA (4) = 3.696 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1250 .0234 .0507 .2482 .1328 .2589 .0945 .2503 .2704 -.0605 .1458 .1632 .0570 .1380 .0600

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1854 .2406 -.0121 .0927 -.0542 .0230 -.1296 -.1121 -.1977 -.1059 .5406 .5553 .5281 .2152 .2171

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2265 -.0092 .0760 -.0222 .0918 -.0931 .0059 .0580 .1221 .0563 .1231

MACH (2) = .703 ALPHA (5) = 5.792 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1240 .0880 .0672 .2683 .1210 .2658 .0960 .2489 .2197 -.0072 .1505 .1604 .0539 .1394 .0552

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1763 .1903 -.0037 .1031 -.0459 .0265 -.1231 -.1070 -.1917 -.0986 .5049 .5349 .4719 .1770 .1829

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (2) = .703 ALPHA (5) = 5.792

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1883 -.0021 .0777 -.0106 .0920 -.0790 .0134 .0564 .1294 .0582 .1242

MACH (2) = .701 ALPHA (6) = 7.806 RN/L = 3.6471 Q(P5F) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1194 .1542 .0955 .2618 .1163 .2494 .0788 .2415 .1626 .0434 .1537 .1404 .0361 .1321 .0366

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1601 .1448 .0015 .1021 -.0371 .0382 -.1153 -.0993 -.1908 -.1013 .4523 .4902 .4394 .1412 .1296

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1460 -.0066 .0742 -.0138 .1028 -.0635 .0289 .0642 .1293 .0652 .1244

MACH (2) = .701 ALPHA (7) = 9.882 RN/L = 3.6471 Q(P5F) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1060 .2316 .0969 .2579 .1075 .2441 .0699 .2371 .1151 .1227 .1428 .1258 .0419 .1237 .0484

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1539 .1051 .0028 .1018 -.0322 .0387 -.1110 -.0934 -.1780 -.0824 .4367 .4472 .4131 .1183 .1104

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1226 .0018 .0713 -.0156 .0972 -.0540 .0265 .0697 .1312 .0587 .1157ORIGINAL PAGE IS
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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (2) = .700 ALPHA (8) = 11.877 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0855 .2991 .0654 .2502 .0906 .2174 .0489 .2150 .0593 .1825 .1334 .0966 .0243 .1090 .3249

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1312 .0644 -.0030 .0928 -.0460 .0390 -.1245 -.1036 -.1838 -.0912 .3911 .4059 .3611 .0801 .0782

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0898 -.0189 .0589 -.0288 .0757 -.0597 .0151 .0641 .1145 .0363 .0892

MACH (2) = .702 ALPHA (9) = 16.058 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0123 .4250 .0063 .1907 .0332 .1543 .0179 .1384 -.0495 .2971 .0997 .0130 -.0272 .0553 -.0285

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0601 -.0404 -.0539 .0504 -.0876 -.0019 -.1343 -.1145 -.2073 -.1121 .3057 .3159 .2565 .0128 .0057

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0128 -.0725 .0049 -.0754 .0424 -.0954 -.0147 .0243 .0785 .0058 .0341

MACH (2) = .701 ALPHA (10) = 20.179 RN/L = 3.6471 Q(PSF) = 528.05 P = 1527.0 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9066 .5608 -.0613 .1289 -.0062 .0887 -.0461 .0530 -.1439 .4273 .0443 -.0678 -.0697 -.0003 -.1018

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.0149 -.1112 -.0794 .0021 -.1002 -.0235 -.1547 -.1397 -.2325 -.1356 .2194 .2485 .1766 -.0321 -.0442

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (2) = .701 ALPHA (1) = 20.179

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0375 -.1183 -.0486 -.1029 .0009 -.1050 -.0297 -.0132 .0444 -.0542 -.0281

MACH (3) = .801 ALPHA (1) = -2.460 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1320 -.1488 .0365 .2143 .1184 .2688 .1104 .2833 .4740 -.2197 .1503 .1866 .0786 .1482 .0704

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2090 .4257 -.0286 .0740 -.0782 -.0014 -.1741 -.1491 -.2557 -.1430 .6689 .7061 .6606 .3681 .3665

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3817 -.0403 .0607 -.0728 .0509 -.1537 -.0485 .0299 .1102 .0282 .1215

MACH (3) = .802 ALPHA (2) = -.415 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1501 -.0814 .0889 .2447 .1352 .2873 .1141 .2873 .4172 -.1573 .1633 .1928 .0814 .1653 .0808

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2143 .3777 -.0105 .0941 -.0590 .0150 -.1556 -.1332 -.2283 -.1200 .6466 .6590 .6204 .3241 .3268

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3427 -.0185 .0765 -.0197 .1003 -.1173 -.0169 .0466 .1282 .0526 .1347

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (3) = .801 ALPHA (3) = 1.691 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1609 -.0146 .0747 .2636 .1453 .2924 .1167 .2922 .3575 -.1015 .1661 .1927 .0815 .1661 .0792

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2167 .3238 .0057 .1117 -.0419 .0343 -.1324 -.1100 -.2004 -.0977 .5981 .6092 .5899 .2783 .2849

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2997 -.0083 .0920 -.0013 .1165 -.0920 .0083 .0636 .1464 .0687 .1461

MACH (3) = .800 ALPHA (4) = 3.635 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1645 .0477 .0793 .2807 .1481 .2914 .1248 .3048 .3044 -.0448 .1657 .1869 .0357 .1639 .0839

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2130 .2665 .0100 .1175 -.0361 .0407 -.1181 -.0986 -.1882 -.0803 .5504 .5774 .5497 .2423 .2493

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2507 .0162 .0962 .0039 .1167 -.0785 .0221 .0737 .1499 .0776 .1529

MACH (3) = .801 ALPHA (5) = 5.761 RN/L = 3.9686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1618 .1222 .0891 .2915 .1525 .2933 .1193 .2962 .2557 .0205 .1729 .1802 .0802 .1629 .0840

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2074 .2251 .0187 .1213 -.0267 .0534 -.1036 -.0939 -.1695 -.0631 .5215 .5428 .5184 .2123 .2107

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ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (3) = .801 ALPHA (5) = 5.761

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2167 .0256 .1041 .0101 .1196 -.0616 .0363 .0845 .1539 .0826 .1555

MACH (3) = .800 ALPHA (6) = 7.786 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1591 .1944 .1285 .2961 .1517 .2896 .1115 .2782 .1941 .0875 .1762 .1728 .0781 .1605 .0765

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1987 .1794 .0247 .1281 -.0170 .0650 -.0902 -.0712 -.1540 -.0509 .4861 .5158 .4909 .1728 .1742

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1783 .0260 .1052 .0108 .1213 -.0406 .0504 .0924 .1597 .0909 .1527

MACH (3) = .800 ALPHA (7) = 9.842 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1492 .2605 .1208 .2913 .1426 .2777 .0940 .2715 .1432 .1453 .1698 .1510 .0675 .1539 .0645

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1821 .1367 .0210 .1233 -.0163 .0670 -.0869 -.0682 -.1446 -.0465 .4531 .4828 .4540 .1347 .1372

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1458 .0222 .0970 .0076 .1176 -.0358 .0525 .0993 .1574 .0805 .1407

ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (3) = .801 ALPHA (8) = 11.927 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.1321	.3332	.1049	.2871	.1360	.2544	.0790	.2499	.0850	.2017	.1491	.1262	.0527	.1384	.0474
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1509	.0797	.0146	.1087	-.0293	.0579	-.0947	-.0785	-.1420	-.0469	.4269	.4436	.4070	.1071	.0981
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.1071	-.0019	.0751	-.0119	.1024	-.0422	.0445	.0853	.1468	.0587	.1185				

MACH (3) = .799 ALPHA (9) = 16.099 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.0726	.4660	.0478	.2361	.0774	.1923	.0553	.1709	-.0161	.3338	.1632	.0603	.0095	.0919	-.0004
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0944	-.0063	-.0190	.0771	-.0566	.0359	-.1011	-.0814	-.1597	-.0605	.3388	.3626	.2801	.0441	.0354
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.0450	-.0380	.0340	-.0494	.0680	-.0556	.0115	.0550	.1084	.0375	.0713				

MACH (3) = .800 ALPHA (10) = 20.179 RN/L = 3.8686 Q(PSF) = 625.21 P = 1393.0 PO = 2124.9

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.9845	.5955	-.0238	.1627	.0393	.1110	-.0151	.0978	-.1178	.4584	.0924	-.0328	-.0500	.0336	-.0791
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0146	-.0914	-.0530	.0292	-.0754	.0093	-.1182	-.1040	-.1745	-.0850	.2317	.2800	.1912	-.0088	-.0171

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (3) = .800 ALPHA (10) = 20.179

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0151 -.0894 -.0213 -.0834 .0262 -.0896 -.0098 .0142 .0721 -.0348 -.0031

MACH (4) = .850 ALPHA (1) = -2.430 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1549 -.1277 .0522 .2373 .1483 .2896 .1355 .307 .4980 -.2035 .1621 .2088 .1012 .2387 .0939

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2342 .4419 -.0121 .0993 -.0584 .0180 -.1571 -.1296 -.2294 -.1211 .6918 .7188 .6789 .3859 .3866

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4033 -.0325 .0794 -.0497 .0788 -.1414 -.0270 .0466 .1357 .0467 .1394

MACH (4) = .850 ALPHA (2) = -.456 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1725 -.0628 .1072 .2654 .1641 .3085 .1395 .3127 .4442 -.1493 .1766 .2163 .1019 .2396 .0968

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2349 .3937 .0103 .1201 -.0442 .0387 -.1345 -.1080 -.1980 -.0884 .6542 .6906 .6415 .3473 .3485

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3596 -.0034 .0992 -.0015 .1136 -.1029 .0077 .0679 .1569 .0693 .1556

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ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (4) = .850 ALPHA (3) = 1.752 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1846	.0135	.1028	.2945	.1708	.3201	.1528	.3320	.3872	-.0839	.1805	.2192	.1140	.2375	.1089
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2421	.3444	.0271	.1362	-.0215	.0557	-.1080	-.0877	-.1667	-.0599	.6194	.6481	.6120	.3047	.3070
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3203	.0203	.1177	.0243	.1370	-.0725	.0336	.0867	.1708	.0929	.1709				

MACH (4) = .850 ALPHA (4) = 3.777 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1887	.0763	.1080	.3067	.1741	.3165	.1491	.3349	.3332	-.0140	.1813	.2120	.1101	.2370	.1071
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2404	.2972	.0321	.1444	-.0065	.0699	-.0909	-.0655	-.1426	-.0409	.5829	.6204	.5839	.2679	.2704
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2795	.0398	.1213	.0246	.1429	-.0593	.0458	.1033	.1792	.1034	.1789				

MACH (4) = .847 ALPHA (5) = 5.741 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1866	.1424	.1132	.3186	.1667	.3188	.1501	.3639	.2813	.0418	-.1863	.2039	.1095	.2260	.0990
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2254	.2460	.0413	.1444	-.0037	.0775	-.0789	-.0599	-.1330	-.0294	.5574	.5848	.5445	.2332	.2255

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (4) = .847 ALPHA (5) = 5.741

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2381 .0445 .1249 .0284 .1422 -.0493 .0562 .1055 .1776 .1040 .1756

MACH (4) = .848 ALPHA (6) = 7.887 RN/L = 3.9293 Q(FSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1799 .2155 .1498 .3218 .1732 .3055 .1323 .3050 .2235 .1055 .1887 .1872 .0986 .2216 .0988

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2207 .2014 .0427 .1485 .0032 .0849 -.0683 -.0420 -.1166 -.0148 .5168 .6384 .5086 .1928 .1913

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1987 .0410 .1216 .0261 .1435 -.0319 .0687 .1143 .1811 .1060 .1744

MACH (4) = .848 ALPHA (7) = 9.922 RN/L = 3.9293 Q(FSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1716 .2875 .1392 .3172 .1732 .2981 .1151 .2941 .1742 .1678 .1829 .1723 .0900 .2065 .0872

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2076 .1558 .0419 .1441 .0057 .0924 -.0591 -.0413 -.1047 -.0043 .4972 .5054 .4705 .1624 .1611

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1637 .0412 .1160 .0248 .1390 -.0156 .0743 .1156 .1792 .1028 .1636

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (4) = .847 ALPHA (8) = 11.978 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1561 .3538 .1186 .2085 .1493 .2746 .1016 .2731 .1257 .2339 .1618 .1454 .0786 .1842 .0739

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1816 .1118 .0432 .1393 .0040 .0940 -.0629 -.0382 -.0993 -.0048 .4508 .4691 .4283 .1279 .1264

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1339 .0265 .1009 .0154 .1348 -.0090 .0710 .1152 .1727 .0940 .1490

MACH (4) = .840 ALPHA (9) = 16.129 RN/L = 3.9293 Q(PSF) = 668.23 P = 1327.2 PO = 2124.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0936 .4825 .0705 .2617 .0944 .2151 .0761 .2043 .0057 .3551 .1662 .0761 .0361 .1362 .0210

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1133 .0145 -.0007 .1036 -.0296 .0608 -.0736 -.0467 -.1175 -.0223 .3670 .3895 .3030 .0648 .0572

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0611 -.0190 .0539 -.0243 .0905 -.0330 .0350 .0797 .1336 .0586 .0932

MACH (5) = .902 ALPHA (1) = -2.420 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1825 -.0954 .0913 .2839 .2133 .3388 .1975 .3354 .5466 -.1972 .4639 .2734 .1630 .2682 .1480

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2808 .4695 .0268 .1415 -.0169 .0618 -.1119 -.0653 -.1861 -.0579 .7183 .7342 .7151 .4057 .4147

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (5) = .902 ALPHA (1) = -2.420

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4294 -.0053 .1014 -.0385 .0971 -.1273 -.0081 .0618 .1579 .0761 .1757

MACH (5) = .900 ALPHA (2) = -.385 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1965 -.0325 .1362 .3118 .2140 .3498 .1975 .3460 .4799 -.1400 .4315 .2674 .1540 .2596 .1436

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2790 .4181 .0432 .1615 -.0027 .0744 -.0902 -.0578 -.1535 -.0377 .6913 .7060 .6825 .3718 .3860

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3932 .0128 .1237 .0210 .1463 -.0851 .0390 .0944 .1811 .0996 .1895

MACH (5) = .899 ALPHA (3) = 1.762 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.2077 .0443 .1319 .3339 .2193 .3597 .1998 .3761 .4280 -.0676 .4437 .2625 .1506 .2591 .1447

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2777 .3669 .0552 .1726 .0109 .0921 -.0725 -.0413 -.1199 -.0097 .6539 .6696 .6517 .3319 .3375

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3489 .0387 .1485 .0417 .1693 -.0552 .0578 .1133 .1978 .1129 .2009

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (5) = .898 ALPHA (4) = 3.756 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2106 .1048 .1323 .3488 .2340 .3583 .1979 .3717 .3773 -.0061 .4795 .2572 .1509 .2574 .1465

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2707 .3177 .0635 .1804 .0198 .1071 -.0482 -.0250 -.0977 .0042 .6120 .6420 .6072 .2981 .2967

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3046 .0553 .1524 .0441 .1694 -.0357 .0721 .1234 .2063 .1255 .2106

MACH (5) = .898 ALPHA (5) = 5.781 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2103 .1797 .1434 .3619 .1985 .3539 .1953 .3645 .3161 .0598 .4888 .2508 .1458 .2482 .1335

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2618 .2758 .0706 .1862 .0290 .1146 -.0381 -.0163 -.0797 .0224 .5811 .6071 .5831 .2599 .2591

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2677 .0652 .1568 .0560 .1744 -.0204 .0817 .1292 .2040 .1301 .2066

MACH (5) = .898 ALPHA (6) = 7.827 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2071 .2452 .1508 .3599 .2342 .3421 .1894 .3545 .2636 .1215 .4463 .2302 .1250 .2380 .1300

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2504 .2213 .0749 .1862 .0352 .1230 -.0294 -.0026 -.0641 .0354 .5530 .5656 .5472 .2283 .2279

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (5) = .898 ALPHA (6) = 7.827

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2318 .0660 .1550 .0562 .1762 -.0015 .0960 .1403 .2116 .1335 .2032

MACH (5) = .900 ALPHA (7) = 9.922 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1958 .3167 .1730 .3579 .2146 .3421 .1746 .3265 .2128 .1935 .4622 .2175 .1085 .2240 .1174

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2384 .1801 .0731 .1848 .0387 .1226 -.0194 .0036 -.0507 .0474 .5205 .5354 .5075 .1936 .1884

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1979 .0645 .1500 .0511 .1726 .0071 .1050 .1419 .2082 .1319 .1901

MACH (5) = .899 ALPHA (8) = 12.170 RN/L = 3.9939 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1792 .3859 .1567 .3467 .2004 .3199 .1559 .3091 .1552 .2558 .4106 .1885 .0847 .2120 .0944

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2106 .1290 .0694 .1734 .0365 .1272 -.0223 .0029 -.0455 .0490 .4769 .5074 .4394 .1541 .1522

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1577 .0486 .1314 .0371 .1571 .0096 .0974 .1356 .1947 .1167 .1718

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OF POOR QUALITY

ARC 150-1-14(OA220) TPS+ADP

(XNLP05)

MACH (5) = .900 ALPHA (9) = 16.210 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1284	.5213	.1075	.3074	.1401	.2672	.1142	.2544	.0479	.3899	.3867	.1221	.0426	.1628	.0512
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1525	.0408	.0375	.1507	.0053	.1032	-.0281	-.0045	-.0561	.0371	.3967	.4218	.3307	.0948	.0879
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0970	.0092	.0873	.0106	.1227	.0053	.0693	.0976	.1651	.0914	.1248				

MACH (5) = .898 ALPHA (10) = 20.331 RN/L = 3.9839 Q(PSF) = 711.39 P = 1256.4 PO = 2123.7

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0571	.6484	.0206	.2458	.1113	.1884	.0538	.1605	-.0613	.5082	.1743	.0408	-.0284	.1003	-.0425
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0710	-.0512	-.0026	.0892	-.0232	.0678	-.0522	-.0308	-.0776	.0099	.2809	.3329	.2324	.0392	.0293
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0329	-.0472	.0279	-.0256	.0827	-.0458	.0467	.0553	.1210	-.0052	.0423				

MACH (6) = .950 ALPHA (1) = -2.450 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2113	-.0409	.1280	.3174	.2204	.3679	.2208	.3803	.5726	-.1696	.4612	.2941	.1924	.2855	.1698
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.3136	.5043	.0587	.1834	.0172	.1025	-.0665	-.0424	-.1311	-.0271	.7528	.7657	.7426	.4546	.4625

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (6) = .950 ALPHA (1) = -2.450

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4701 .0375 .1545 .0187 .1430 -.0835 .0374 .1125 .2079 .1206 .2152

MACH (6) = .951 ALPHA (2) = -.334 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2278 .0292 .1628 .3481 .2323 .3911 .2273 .3830 .5192 -.0977 .4645 .2965 .1916 .2907 .1733

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3127 .4547 .0776 .2006 .0351 .1189 -.0419 -.0201 -.0948 .0078 .7227 .7467 .7251 .4151 .4213

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4276 .0664 .1653 .0701 .1925 -.0341 .0816 .1432 .2294 .1411 .2328

MACH (6) = .948 ALPHA (3) = 1.691 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2348 .0875 .1537 .3677 .2424 .3946 .2298 .4058 .4550 -.0335 .4770 .2959 .1897 .2930 .1750

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3139 .4060 .0937 .2098 .0476 .1343 -.0230 -.0019 -.0647 .0390 .6931 .6948 .6846 .3739 .3754

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3868 .0805 .1848 .0838 .2073 -.0076 .1025 .1560 .2413 .1564 .2431

ARC 150-i-14(0A220) TPS+ADP

(XNLP05)

MACH (6) = .950 ALPHA (4) = 3.787 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2377	.1589	.1605	.3876	.2441	.3937	.2312	.4085	.4078	.0346	.5029	.2883	.1888	.2888	.1747
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.3068	.3626	.0997	.2185	.0644	.1470	-.0005	.0199	-.0328	.0602	.6677	.6781	.6564	.3397	.3361
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3423	.0987	.1939	.0894	.2126	.0074	.1130	.1647	.2460	.1698	.2484				

MACH (6) = .949 ALPHA (5) = 5.761 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2378	.2141	.1679	.3927	.2363	.3899	.2265	.3963	.3562	.0939	.5102	.2762	.1748	.2827	.1689
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2972	.3112	.1061	.2217	.0709	.1566	.0109	.0294	-.0216	.0769	.6168	.6472	.6240	.2987	.3008
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3066	.1050	.1921	.0907	.2115	.0187	.1228	.1762	.2507	.1743	.2482				

MACH (6) = .948 ALPHA (6) = 7.867 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2341	.2915	.1982	.3976	.2466	.3839	.2172	.3807	.2955	.1628	.4875	.2644	.1620	.2769	.1637
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2886	.2602	.1147	.2223	.0764	.1620	.0184	.0393	-.0034	.0910	.5866	.6084	.5735	.2597	.2597

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (6) = .948 ALPHA (6) = 7.867

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2652 .1065 .1917 .0913 .2126 .0312 .1347 .1729 .2489 .1704 .2443

MACH (6) = .950 ALPHA (7) = 9.953 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2278 .3572 .1978 .3953 .2581 .3717 .2054 .3649 .2424 .2258 .4780 .2466 .1476 .2637 .1500

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2667 .2218 .1132 .2197 .0751 .1631 .0240 .0464 .0084 .1038 .5484 .5763 .5316 .2248 .2233

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2325 .0998 .1810 .0852 .2099 .0460 .1348 .1766 .2446 .1701 .2311

MACH (6) = .948 ALPHA (8) = 12.150 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2062 .4294 .1699 .3843 .2195 .3527 .1837 .3432 .1885 .2924 .4223 .2146 .1191 .2477 .1285

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2452 .1645 .1026 .2117 .0704 .1641 .0192 .0440 .0102 .1026 .5048 .5433 .4825 .1901 .1870

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1923 .0804 .1670 .0736 .1974 .0405 .1325 .1670 .2336 .1589 .2109

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (6) = .948 ALPHA (9) = 16.210 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1635	.5558	.1333	.3533	.1701	.3073	.1549	.2960	.0834	.4177	.4096	.1685	.0811	.2074	.0784
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1928	.0861	.0737	.1877	.0389	.1423	.0163	.0438	.0016	.0970	.4425	.4601	.3609	.1303	.1235
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1339	.0410	.1297	.0436	.1656	.0363	.1093	.1335	.1991	.1332	.1645				

MACH (6) = .941 ALPHA (10) = 20.412 RN/L = 4.0029 Q(PSF) = 749.35 P = 1189.6 PO = 2123.2

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0919	.6767	.0271	.2855	.1582	.2280	.0813	.2063	-.0298	.5430	.1851	.0864	.0117	.1465	-.0165
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1070	-.0145	.0215	.1213	.0040	.0993	-.0195	.0084	-.0290	.0601	.3127	.3580	.2623	.0680	.0614
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0625	-.0184	.0581	-.0014	.1160	-.0217	.0774	.0842	.1470	.0250	.0744				

MACH (7) = .974 ALPHA (1) = -2.450 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2271	-.0153	.1572	.3548	.2608	.3813	.2461	.4053	.5891	-.1242	.2341	.3294	.2123	.3369	.2011
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.3412	.5275	.0955	.2031	.0498	.1323	-.0359	.0040	-.1070	.0173	.7695	.7895	.7589	.4667	.4708

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (7) = .974 ALPHA (1) = -2.450

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4859 .0615 .1741 .0367 .1722 -.0594 .0640 .1387 .2326 .1490 .2453

MACH (7) = .977 ALPHA (2) = -.415 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2445 .0508 .2063 .3874 .2829 .4155 .2645 .4090 .5429 -.0631 .2482 .3449 .2220 .3371 .2146

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3536 .4835 .1177 .2296 .0790 .1541 -.0080 .0331 -.0521 .0573 .7444 .7676 .7380 .4339 .4398

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4485 .0889 .1900 .0915 .2186 -.0099 .1123 .1673 .2522 .1720 .2640

MACH (7) = .974 ALPHA (3) = 1.752 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.2505 .1149 .2001 .4024 .2787 .4182 .2515 .4384 .4732 .0044 .2377 .3262 .2088 .3361 .2060

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .3395 .4278 .1240 .2358 .0821 .1602 .0059 .0429 -.0275 .0821 .7189 .7254 .7034 .3911 .3944

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4063 .1070 .2110 .1047 .2264 .0107 .1281 .1774 .2615 .1843 .2680

ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (7) = .974 ALPHA (4) = 3.787 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2523 .1848 .1992 .4153 .2902 .4156 .2542 .4311 .4243 .0639 .2391 .3168 .2109 .3320 .2036

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3325 .3805 .1308 .2423 .0925 .1735 .0220 .0591 -.0036 .0994 .6806 .7012 .6732 .3540 .3555

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3640 .1206 .2129 .1092 .2333 .0232 .1360 .1911 .2671 .1922 .2699

MACH (7) = .972 ALPHA (5) = 5.812 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2523 .2463 .2073 .4226 .2565 .4137 .2481 .4055 .3738 .1283 .2447 .3117 .2079 .3195 .2026

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3279 .3302 .1373 .2413 .0986 .1796 .0350 .0657 .0159 .1173 .6357 .6742 .6327 .3155 .3174

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3230 .1225 .2132 .1123 .2318 .0363 .1446 .1951 .2701 .1905 .2666

MACH (7) = .975 ALPHA (6) = 7.887 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2488 .3193 .2380 .4339 .2702 .4094 .2475 .4135 .3224 .1976 .2455 .3024 .2054 .3205 .2009

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .3182 .2890 .1408 .2466 .1089 .1912 .0499 .0805 .0357 .1339 .6028 .6369 .6028 .2859 .2792

ARC 150-1-14(OA220) TPS+AJP

(XNLP05)

MACH (7) = .975 ALPHA (6) = 7.687

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2887 .1281 .2119 .1140 .2389 .0542 .1627 .2024 .2754 .1989 .2687

MACH (7) = .974 ALPHA (7) = 10.014 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2396 .3870 .2316 .4296 .2911 .3896 .2320 .3903 .2602 .2528 .2465 .2790 .2020 .3049 .1892

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2960 .2448 .1361 .2403 .1106 .1927 .0527 .0639 .0437 .1442 .5648 .5996 .5633 .2433 .2444

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2521 .1176 .2015 .1062 .2290 .0656 .1630 .1990 .2660 .1920 .2536

MACH (7) = .974 ALPHA (8) = 12.201 RN/L = 3.8940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.2252 .4611 .2118 .4184 .2348 .3903 .2127 .3725 .2061 .3204 .2289 .2576 .1979 .2834 .1686

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2714 .1953 .1289 .2315 .1061 .1944 .0457 .0852 .0481 .1449 .5390 .5626 .5007 .2097 .2034

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2155 .1043 .1871 .0952 .2204 .0654 .1558 .1901 .2586 .1804 .2379

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (7) = .973 ALPHA (9) = 14.165 RN/L = 3.6940 Q(PSF) = 767.56 P = 1155.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2058	.5155	.1924	.4024	.2112	.3543	.1952	.3441	.1564	.3850	.2239	.2228	.1781	.2617	.1495
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2451	.1450	.1096	.2236	.0890	.1816	.0404	.0809	.0452	.1547	.5008	.5288	.4412	.1770	.1685
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1785	.0819	.1659	.0758	.2014	.0572	.1403	.1773	.2401	.1686	.2127				

MACH (8) = 1.048 ALPHA (1) = -2.420 RN/L = 3.8997 Q(PSF) = 814.30 P = 1061.0 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2755	.0778	.2568	.4309	.3633	.4833	.3499	.4711	.6648	-.0473	.3263	.4154	.3018	.4047	.2879
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.4179	.5944	.1859	.2860	.1417	.2122	.0572	.0947	.0017	.1181	.8309	.8584	.8194	.5416	.5501
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.5590	.1408	.2466	.1330	.2545	.0336	.1428	.2262	.3064	.2313	.3168				

MACH (8) = 1.047 ALPHA (2) = -.516 RN/L = 3.8997 Q(PSF) = 814.30 P = 1061.0 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.2894	.1298	.2671	.4460	.3547	.4768	.3385	.4635	.6108	.0047	.3263	.4065	.2993	.4035	.2926
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.4187	.5501	.1934	.2967	.1571	.2232	.0765	.1065	.0255	.1408	.8111	.8274	.7984	.4999	.5020

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ARC 150-1-14(0A220) TPS+ADP

(XNLP05)

MACH (8) = 1.047 ALPHA (2) = -.516

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .5085 .1592 .2458 .1508 .2707 .0494 .1627 .2282 .3078 .2495 .3292

MACH (8) = 1.045 ALPHA (3) = 1.681 RN/L = 3.8937 Q(PSF) = 814.30 P = 1061.0 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.2948 .1916 .2892 .4728 .3769 .4905 .3498 .5044 .5521 .0703 .3273 .4070 .3014 .4002 .2919

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .4129 .5034 .2055 .3049 .1695 .2362 .0914 .1208 .0773 .1829 .7773 .7909 .7673 .4609 .4670

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4763 .1815 .2704 .1812 .2913 .0876 .1950 .2521 .3271 .2569 .3381

PARAMETRIC DATA

BETA = 2.000 TPSGAP = .010

MACH (1) = .699 ALPHA (1) = -2.511 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0809 -.1918 .0049 .1697 .0796 .2263 .0680 .2400 .4302 -.2349 .1321 .1437 .0379 .1020 .0211

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1664 .3910 -.0654 .0414 -.1082 -.0324 -.1970 -.1796 -.2556 -.1588 .6397 .6456 .6278 .3313 .3361

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3448 -.0733 .0250 -.0979 .0228 -.1727 -.0752 .0060 .0858 -.0008 .0876

MACH (1) = .700 ALPHA (2) = -.405 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1052 -.1047 .0637 .2033 .1015 .2419 .1053 .2559 .3811 -.1671 .1545 .1485 .0482 .1243 .0488

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1806 .3408 -.0330 .0682 -.0869 -.0146 -.1772 -.1582 -.2272 -.1338 .6140 .6344 .6062 .2942 .3002

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3083 -.0464 .0505 -.0418 .0654 -.1358 -.0413 .0297 .1096 .0324 .1061

ARC '50-1-14(0A220) TPS+AC²

(XNLP06)

MACH (1) = .701 ALPHA (3) = 1.620 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1187 -.0464 .0598 .2288 .1168 .2558 .0885 .2553 .3203 -.1132 .1551 .1567 .0531 .1251 .0509

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1861 .2952 -.0209 .0763 -.0786 .0053 -.1557 -.1461 -.2125 -.1151 .5741 .5926 .5442 .2569 .2590

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2647 -.0187 .0679 -.0291 .0744 -.1124 -.0208 .0390 .1168 .0418 .1137

MACH (1) = .699 ALPHA (4) = 3.696 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1203 .0197 .0565 .2425 .1176 .2569 .0902 .2710 .2707 -.0624 .1529 .1491 .0527 .1313 .0543

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1741 .2407 -.0202 .0865 -.0649 .0134 -.1372 -.1178 -.2046 -.1151 .5452 .5530 .5133 .2181 .2151

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2238 -.0023 .0715 -.0219 .0861 -.0958 -.0013 .0603 .1211 .0514 .1235

MACH (1) = .700 ALPHA (5) = 5.721 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1213 .0971 .0625 .2527 .1215 .2608 .0898 .2619 .2227 .0027 .1620 .1428 .0552 .1379 .0539

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1749 .2014 -.0059 .0982 -.0516 .0287 -.1307 -.1075 -.1862 -.0948 .5049 .5329 .4784 .1829 .1826

ORIGINAL PAGE IS
OF POOR QUALITY

ARC 150-1-14(0A220) TPS+ADF

(XNLP06)

MACH (1) = .700 ALPHA (5) = 5.721

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1910 .0076 .0838 -.0093 .0941 -.0772 .0154 .0679 .1350 .0558 .1278

MACH (1) = .699 ALPHA (6) = 7.776 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1176 .1550 .0935 .2544 .1190 .2473 .0729 .2558 .1625 .0583 .1625 .1311 .0401 .1330 .0480

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1628 .1530 -.0091 .0970 -.0525 .0295 -.1230 -.1042 -.1890 -.0931 .4585 .4855 .4412 .1470 .1418

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1557 .0000 .0767 -.0120 .0930 -.0652 .0268 .0713 .1312 .0543 .1199

MACH (1) = .702 ALPHA (7) = 9.831 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1041 .2197 .0778 .2466 .1002 .2353 .0451 .2307 .0981 .1096 .1541 .1100 .0211 .1148 .0271

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1383 .0941 -.0209 .0809 -.0529 .0182 -.1445 -.1231 -.2056 -.1049 .4170 .4406 .4068 .1075 .0991

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1067 -.0228 .0567 -.0344 .0780 -.0717 .0105 .0543 .1172 .0342 .0962

ARC 150-1-14(OA220) TPS+ALF

(XNLP06)

MACH (1) = .698 ALPHA (8) = 11.978 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0827	.2951	.0641	.2359	.0919	.2081	.0314	.2100	.0540	.1853	.1098	.0806	.0094	.1039	.0099
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1232	.0635	-.0156	.0849	-.0525	.0295	-.1274	-.1053	-.1796	-.0919	.3912	.4048	.3706	.0788	.0753
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0845	-.0202	.0567	-.0315	.0802	-.0557	.0236	.0717	.1251	.0404	.0924				

MACH (1) = .701 ALPHA (9) = 16.038 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0164	.4227	.0109	.1920	.0410	.1534	.0172	.1366	-.0529	.2967	.1193	.0132	-.0334	.0520	-.0423
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0649	-.0326	-.0638	.0442	-.0985	-.0032	-.1433	-.1248	-.2241	-.1267	.3034	.3179	.2530	.0139	.0088
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0147	-.0711	.0007	-.0785	.0347	-.0923	-.0177	.0215	.0739	.0003	.0341				

MACH (1) = .696 ALPHA (10) = 20.128 RN/L = 3.7287 Q(PSF) = 524.88 P = 1533.2 PO = 2125.2

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9079	.5586	-.0647	.1202	-.0167	.0783	-.0486	.0617	-.1440	.4230	.0583	-.0669	-.0818	.0069	-.1028
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0078	-.1099	-.0897	-.0029	-.1039	-.0171	-.1540	-.1370	-.2258	-.1441	.2234	.2446	.1662	-.0274	-.0333

ARC 150-1-14(0A220) TPS+ADP

(XNLP06)

MACH (1) = .696 ALPHA (10) = 20.128

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0312 -.1224 -.0445 -.1017 .0075 -.1009 -.0255 -.0059 .0543 -.0540 -.0190

MACH (2) = .802 ALPHA (1) = -.385 RN/L = 3.9027 Q(PSF) = 625.65 P = 1391.2 PO = 2124.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1486 -.0845 .0785 .2522 .1562 .2972 .1439 .2938 .4314 -.1763 .3967 .2048 .1049 .1984 .0881

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2198 .3674 -.0078 .1076 -.0577 .0217 -.1518 -.1195 -.2275 -.1090 .6431 .6526 .6290 .3244 .3362

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3417 -.0293 .0819 -.0177 .0996 -.1180 -.0083 .0452 .1312 .0488 .1408

MACH (2) = .805 ALPHA (2) = 3.625 RN/L = 3.9027 Q(PSF) = 625.65 P = 1391.2 PO = 2124.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1666 .0514 .0867 .2933 .1731 .3042 .1476 .3216 .3217 -.0481 .4150 .1982 .0964 .1989 .0982

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2245 .2754 .0162 .1344 -.0283 .0590 -.1067 -.0828 -.1776 -.0675 .5648 .5896 .5650 .2537 .2521

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2639 .0180 .1089 .0089 .1218 -.0749 .0286 .0774 .1541 .0798 .1575

ARC 150-1-14(0A220) TPS+ADP

(XNLP06)

MACH (2) = .802 ALPHA (3) = 7.908 RN/L = 3.9027 Q(PSF) = 625.65 P = 1391.2 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1577	.1884	.1004	.3003	.1544	.2960	.1294	.2944	.2063	.0814	.3772	.1767	.0720	.1829	.0767
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2031	.1663	.0224	.1370	-.0214	.0626	-.0926	-.0667	-.1513	-.0473	.4867	.5114	.4804	.1715	.1703
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1767	.0180	.1035	.0059	.1192	-.0510	.0510	.0885	.1585	.0783	.1510				

MACH (2) = .802 ALPHA (4) = 11.968 RN/L = 3.9027 Q(PSF) = 625.65 P = 1391.2 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1260	.3301	.0981	.2897	.1411	.2656	.0983	.2519	.1059	.2036	.3644	.1289	.0361	.1537	.0404
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1639	.0780	.0116	.1253	-.0244	.0762	-.0917	-.0629	-.1375	-.0372	.4202	.4340	.4077	.1072	.1040
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1090	-.0001	.0856	-.0110	.1129	-.0393	.0486	.0881	.1518	.0651	.1229				

MACH (2) = .800 ALPHA (5) = 15.997 RN/L = 3.9027 Q(PSF) = 625.65 P = 1391.2 PO = 2124.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0676	.4631	.0670	.2471	.0864	.2070	.0638	.1976	-.0021	.3297	.3148	.0622	-.0134	.1098	.0031
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1012	-.0077	-.0160	.0957	-.0467	.0517	-.0903	-.0669	-.1495	-.0520	.3397	.3795	.2947	.0483	.0434

ARC 150-1-14(0A220) TPS+A)P

(XNLP06)

MACH (2) = .800 ALPHA (5) = 15.997

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0494 -.0382 .0416 -.0370 .0812 -.0536 .0264 .0540 .1170 .0345 .0727

MACH (3) = .851 ALPHA (1) = -2.440 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1542 -.1285 .0579 .2538 .1720 .3038 .1724 .3196 .5138 -.2207 .0997 .2236 .0973 .1811 .0949

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2469 .4308 -.0159 .1089 -.0612 .0284 -.1532 -.1222 -.2296 -.1064 .6945 .7203 .6881 .3881 .4012

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4109 -.0386 .0897 -.0604 .0831 -.1375 -.0224 .0466 .1462 .0426 .1419

MACH (3) = .852 ALPHA (2) = -.334 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1798 -.0528 .1028 .2810 .1747 .3330 .1706 .3165 .4615 -.1537 .1109 .2354 .1049 .1908 .1098

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2547 .3880 .0111 .1335 -.0397 .0467 -.1271 -.0956 -.1932 -.0774 .6542 .6789 .6460 .3487 .3523

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3633 -.0130 .1017 -.0019 .1199 -.1087 .0075 .0659 .1599 .0637 .1604

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS+ACP

(XNLP06)

MACH (3) = .851 ALPHA (3) = 1.671 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1862	.0112	.0923	.2980	.1842	.3333	.1781	.3505	.4040	-.0970	.1174	.2282	.1157	.1921	.1110
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2505	.3350	.0243	.1478	-.0202	.0660	-.0995	-.0786	-.1727	-.0568	.6287	.6462	.6198	.3046	.3110
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3180	.0093	.1191	.0165	.1395	-.0767	.0326	.0813	.1672	.0879	.1732				

MACH (3) = .851 ALPHA (4) = 3.736 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1864	.0787	.1132	.3224	.1892	.3394	.1767	.3428	.3463	-.0302	.1164	.2284	.1194	.1909	.1128
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2436	.2882	.0352	.1570	-.0150	.0795	-.0872	-.0592	-.1429	-.0336	.5874	.6202	.5853	.2700	.2706
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2798	.0333	.1261	.0231	.1402	-.0635	.0452	.0978	.1760	.0967	.1794				

MACH (3) = .851 ALPHA (5) = 5.862 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.1862	.1569	.1088	.3284	.1847	.3322	.1640	.3343	.2926	.0333	.1114	.2144	.1189	.1808	.1133
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2358	.2417	.0368	.1612	-.0036	.0819	-.0705	-.0504	-.1248	-.0192	.5442	.5808	.5588	.2316	.2299

ARC 150-1-14(0A220) TPS+ADP

(XNLP06)

MACH (3) = .851 ALPHA (5) = 5.862

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2356 .0334 .1292 .0322 .1457 -.0470 .0592 .0998 .1804 .1019 .1774

MACH (3) = .850 ALPHA (6) = 7.756 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1779 .2193 .1266 .3324 .1852 .3358 .1611 .3241 .2366 .0940 .1075 .2014 .1180 .1765 .1081

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2304 .1920 .0363 .1659 .0004 .0936 -.0612 -.0383 -.1140 -.0097 .5244 .5472 .5017 .2001 .1963

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2063 .0348 .1293 .0310 .1446 -.0308 .0737 .1124 .1797 .1026 .1767

MACH (3) = .851 ALPHA (7) = 9.902 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1653 .2907 .1355 .3296 .1777 .3128 .1505 .3079 .1914 .1589 .0944 .1839 .1130 .1694 .0959

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2135 .1482 .0397 .1591 .0059 .0978 -.0554 -.0377 -.1007 .0040 .4736 .5043 .4781 .1638 .1636

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1728 .0373 .1192 .0223 .1443 -.0195 .0793 .1115 .1822 .0984 .1646

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ARC 150-1-14(0A220) TPS+AD³

(XNLP06)

MACH (3) = .850 ALPHA (8) = 11.969 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1440	.3581	.1134	.3137	.1613	.3003	.1233	.2829	.1262	.2229	.0765	.1615	.0932	.1535	.0787
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1903	.0984	.0380	.1536	.0003	.1005	-.0536	-.0335	-.0988	.0010	.4424	.4725	.4166	.1258	.1258
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1379	.0226	.1108	.0109	.1325	-.0155	.0760	.1160	.1735	.0866	.1457				

MACH (3) = .850 ALPHA (9) = 16.129 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0889	.4923	.0763	.2761	.1269	.2499	.0780	.2253	.0233	.3574	.0408	.0967	.0652	.1080	.0335
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1275	.0079	.0130	.1322	-.0202	.0793	-.0587	-.0397	-.1060	-.0105	.3767	.3930	.3165	.0707	.0608
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0720	-.0208	.0666	-.0199	.0999	-.0311	.0475	.0829	.1394	.0016	.1002				

MACH (3) = .850 ALPHA (10) = 20.311 RN/L = 4.0002 Q(PSF) = 670.01 P = 1322.9 PO = 2123.2

SECTION (1)FORE BODY		DEPENDENT VARIABLE CP													
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9974	.6207	.0019	.2016	.0810	.1642	.0132	.1314	-.0883	.4868	-.0313	.0096	.0081	.0393	-.0418
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0451	-.0777	-.0259	.0648	-.0475	.0444	-.0762	-.0632	-.1186	-.0330	.2555	.3058	.2189	.0165	.0100

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ARC 150-1-14(0A220) TPS+ADP

(XNLP06)

MACH (3) = .850 ALPHA (10) = 20.311

SECTION (1) FORE BODY . DEPENDENT VARIABLE CP

TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	
SET	.000	.0134	-.0732	.0019	-.0623	.0559	-.0543	.0240	.0345	.0999	-.0032	.0275

PARAMETRIC DATA

BETA = .000 TPGAP = .000
 PHI-N = .000

MACH (1) = .398 ALPHA (1) = -1.964 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .6420 -.1556 .0545 .1021 .1269 .1564 .1377 .1605 .3552 -.2050 .0805 .0738 .0677 .0516 .0597

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0724 .3360 -.0356 -.0101 -.0711 -.0792 -.1536 -.1959 -.1852 -.1805 .5704 .5691 .5530 .2953 .3000

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2953 -.0329 -.0421 -.0635 -.0414 -.1286 -.1152 .0465 .0310 .0370 .0216

MACH (1) = .400 ALPHA (2) = .182 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8190 -.1049 .0824 .1198 .1358 .1612 .1472 .1792 .2812 -.1515 .0891 .0704 .0784 .0630 .0617

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0757 .2754 -.0218 .0002 -.0639 -.0665 -.1474 -.1908 -.1794 -.1741 .5055 .4955 .5068 .2493 .2366

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2480 -.0158 -.0151 -.0271 -.0091 -.1019 -.0973 .0476 .0343 .0522 .0289

ARC 150-1-14(OA220) TPS(MCD)+ADP+FTP

(XNLP07)

MACH (1) = .401 ALPHA (3) = 2.227 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8480	-.0434	.0970	.1369	.1416	.1722	.1529	.1662	.2363	-.1076	.0830	.0731	.0811	.0545	.0658
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0777	.2314	-.0034	.0092	-.0513	-.0606	-.1364	-.1790	-.1737	-.1591	.4358	.4444	.4636	.2101	.2127
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2154	.0278	-.0034	-.0034	.0039	-.0779	-.0845	.0511	.0458	.0574	.0461				

MACH (1) = .401 ALPHA (4) = 4.283 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7891	.0178	.1119	.1550	.1477	.1663	.1497	.1729	.1837	-.0563	.0788	.0629	.0834	.0589	.0682
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0781	.1796	.0012	.0184	-.0392	-.0379	-.1122	-.1593	-.1566	-.1434	.3998	.3800	.4210	.1716	.1603
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1763	.0310	.0151	.0039	.0178	-.0631	-.0599	.0854	.0655	.0799	.0594				

MACH (1) = .402 ALPHA (5) = 6.328 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8408	.0785	.1160	.1623	.1444	.1616	.1431	.1702	.1365	.0014	.0756	.0452	.0835	.0505	.0723
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0802	.1371	.0049	.0194	-.0361	-.0308	-.1101	-.1603	-.1531	-.1431	.3631	.3506	.3803	.1438	.1312

ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP07)

MACH (1) = .402 ALPHA (5) = 6.328

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1378 .0326 .0155 .0095 .0201 -.0387 -.0500 .0882 .0717 .0772 .0607

MACH (1) = .401 ALPHA (6) = 8.323 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9399 .1280 .1297 .1655 .1337 .1483 .1383 .1486 .0864 .0475 .0603 .0365 .0696 .0391 .0670

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0670 .0928 .0080 .0179 -.0377 -.0357 -.1113 -.1583 -.1517 -.1470 .3315 .3606 .3500 .1105 .0973

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1046 .0160 .0051 -.0055 .0237 -.0320 -.0399 .0900 .0688 .0739 .0574

MACH (1) = .401 ALPHA (7) = 10.348 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9549 .2002 .1224 .1503 .1251 .1290 .1191 .1211 .0335 .1069 .0404 .0039 .0576 .0258 .0470

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0464 .0550 .0039 .0119 -.0346 -.0353 -.1122 -.1686 -.1540 -.1414 .3404 .3642 .3232 .0859 .0713

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0786 .0145 .0115 -.0144 .0161 -.0317 -.0456 .0852 .0699 .0705 .0507

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ARC 150-1-14(0A220) TPS(MOD)-ADP+FTP

(XNLP07)

07

MACH (1) = .401 ALPHA (8) = 12.433 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9309 .2674 .1039 .1292 .1106 .1133 .0887 .0873 -.0147 .1621 .0173 -.0352 .0279 -.0046 .0279

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0260 .0206 -.0092 .0027 -.0498 -.0418 -.1261 -.1713 -.1680 -.1507 .2714 .3316 .2687 .0448 .0422

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0428 -.0073 -.0203 -.0230 .0089 -.0382 -.0489 .0787 .0588 .0562 .0456

MACH (1) = .401 ALPHA (9) = 16.635 RN/L = 2.5837 Q(PSF) = 214.31 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8565 .3931 .0444 .0769 .0636 .0510 .0397 .0377 -.0935 .2827 -.0417 -.1034 -.0012 -.0423 -.0185

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0271 -.0430 -.0311 -.0264 -.0735 -.0649 -.1206 -.1750 -.1949 -.1763 .2318 .3164 .2185 -.0021 .0006

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0006 -.0390 -.0512 -.0419 -.0140 -.0532 -.0618 .0457 .0311 .0242 -.0023

MACH (2) = .618 ALPHA (1) = -1.934 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .6833 -.1503 .0760 .1152 .1453 .1781 .1599 .2001 .3923 -.1987 .0914 .0794 .0865 .0745 .0710

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0936 .3495 -.0337 -.0032 -.0677 -.0835 -.1687 -.2102 -.2024 -.1898 .6123 .5903 .5810 .3223 .3149

ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP07)

MACH (2) = .618 ALPHA (1) = -1.934

SECTION (1)FORE BODY	DEPENDENT VARIABLE CP												
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000		
SET	.000	.3155	-.0197	-.0287	-.0586	-.0297	-.1364	-.1182	.0461	.0348	.0532	.0300	

MACH (2) = .618 ALPHA (2) = .172 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8544	-.0861	.1046	.1400	.1562	.1865	.1663	.2021	.3065	-.1583	.1012	.0879	.0950	.0759	.0814

TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0921	.2948	-.0125	.0077	-.0570	-.0694	-.1642	-.2084	-.2012	-.1970	.5217	.5554	.5486	.2716	.2566

MACH (2) = .622 ALPHA (3) = 2.116 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY	DEPENDENT VARIABLE CP															
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8873	-.0170	.1134	.1671	.1674	.1950	.1835	.2082	.2731	-.0929	.0951	.0884	.0983	.0784	.1038

TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1083	.2632	.0109	.0270	-.0357	-.0353	-.1266	-.1684	-.1633	-.1562	.4777	.4969	.4934	.2342	.2346

TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	
SET	.000	.2429	.0347	.0138	.0170	.0276	-.0530	-.0639	.0694	.0636	.0810	.0672

ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP07)

MACH (2) = .619 ALPHA (4) = 4.242 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8220	.0449	.1291	.1851	.1712	.1884	.1806	.1974	.2091	-.0558	.1025	.0753	.1005	.0743	.0857
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0918	.2034	.0073	.0271	-.0483	-.0441	-.1253	-.1710	-.1658	-.1541	.4159	.4188	.4481	.1838	.1754
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1965	.0349	.0165	.0194	.0265	-.0615	-.0586	.0861	.0644	.0765	.0594				

MACH (2) = .619 ALPHA (5) = 6.277 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8745	.0933	.1280	.1784	.1622	.1809	.1609	.1803	.1571	-.0065	.0895	.0588	.0963	.0608	.0850
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0853	.1458	.0126	.0317	-.0323	-.0268	-.1138	-.1616	-.1548	-.1493	.4077	.3688	.3833	.1522	.1399
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1548	.0317	.0181	.0204	.0291	-.0400	-.0368	.0885	.0766	.0847	.0644				

MACH (2) = .620 ALPHA (6) = 8.373 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0024	.1650	.1442	.1761	.1658	.1761	.1555	.1687	.1056	.0668	.0750	.0415	.0872	.0595	.0692
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0834	.1111	.0257	.0338	-.0281	-.0216	-.1070	-.1563	-.1479	-.1428	.3843	.3843	.3554	.1113	.1100

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ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP07)

MACH (2) = .620 ALPHA (6) = 8.373

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1191 .0344 .0233 .0163 .0295 -.0205 -.0334 .1000 .0875 .0851 .0668

MACH (2) = .619 ALPHA (7) = 10.429 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0152 .2343 .1235 .1721 .1455 .1510 .1368 .1494 .0487 .1218 .0506 .0076 .0719 .0373 .0570

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0548 .0709 .0130 .0237 -.0364 -.0261 -.1108 -.1696 -.1635 -.1476 .3532 .4073 .3151 .0860 .0760

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0880 .0192 .0065 .0016 .0239 -.0291 -.0304 .0873 .0679 .0722 .0548

MACH (2) = .620 ALPHA (8) = 12.454 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0010 .2936 .1143 .1485 .1272 .1392 .1040 .1195 .0087 .1885 .0295 -.0054 .0498 .0201 .0375

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0456 .0304 .0088 .0214 -.0360 -.0283 -.1205 -.1614 -.1563 -.1495 .3026 .3865 .2798 .0608 .0582

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0537 .0111 .0017 -.0093 .0217 -.0251 -.0367 .0930 .0675 .0608 .0499

ARC 150-1-14(0A220) TPS(MOD):+ADP+FTP

(XNLP07)

MACH (2) = .619 ALPHA (9) = 16.544 RN/L = 3.5265 Q(PSF) = 440.95 P = 1640.5 PO = 2125.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9212	.4327	.0663	.0976	.0798	.0698	.0601	.0637	-.0908	.2961	-.0397	-.1066	.0189	-.0361	-.0060
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0248	-.0481	-.0193	-.0173	-.0571	-.0519	-.1198	-.1703	-.1887	-.1696	.2546	.3490	.2069	-.0013	-.0055
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.0016	-.0367	-.0456	-.0439	-.0058	-.0511	-.0559	.0643	.0411	.0352	-.0029				

PARAMETRIC DATA

BETA = .000 TPGAP = .000
PHI-N = -90.000

MACH (1) = .401 ALPHA (1) = -1.944 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)	FORE BODY												DEPENDENT VARIABLE CP																				
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	TAP NO	16.0000	17.0000	18.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.7348	-.1625	.0453	.1030	.1289	.1634	.1322	.1707	.3533	-.2009	.0868	.0742	.0623	.0636	.0676	SET	.000	.0769	.3170	-.0326	-.0114	-.0685	-.0724	-.1580	-.2038	-.1939	-.1799	.5582	.5655	.5556	.2995	.3008
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	SET	.000	.2889	-.0366	-.0357	-.0636	-.0311	-.1320	-.1207	.0340	.0240	.0445	.0213									

MACH (1) = .401 ALPHA (2) = .233 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)	FORE BODY												DEPENDENT VARIABLE CP																				
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	TAP NO	16.0000	17.0000	18.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.8186	-.0960	.0681	.1180	.1353	.1706	.1593	.1753	.2973	-.1570	.0826	.0800	.0880	.0687	.0673	SET	.000	.0780	.2869	-.0198	.0015	-.0584	-.0658	-.1456	-.1842	-.1755	-.1622	.4963	.4910	.5142	.2598	.2512
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	SET	.000	.2512	.0035	-.0105	-.0185	-.0045	-.1010	-.0937	.0474	.0481	.0612	.0373									

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ARC 150-1-14(OA220) TPS(MOD)1+ADP+FTP

(XNLP08)

MACH (1) = .400 ALPHA (3) = 2.177 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8484 -.0430 .0869 .1457 .1503 .1737 .1477 .1784 .2397 -.1082 .0896 .0722 .0776 .0609 .0722

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0823 .2264 -.0025 .0115 -.0512 -.0512 -.1340 -.1727 -.1674 -.1547 .4666 .4153 .4599 .2204 .2064

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2104 .0108 .0142 -.0038 .0142 -.0833 -.0659 .0636 .0402 .0687 .0375

MACH (1) = .400 ALPHA (4) = 4.252 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8106 -.0025 .1090 .1611 .1484 .1697 .1451 .1731 .1863 -.0643 .0773 .0613 .0753 .0566 .0680

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0813 .1747 -.0034 .0153 -.0381 -.0381 -.1155 -.1682 -.1649 -.1535 .4018 .3692 .4097 .1757 .1571

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1657 .0253 .0117 -.0037 .0143 -.0697 -.0643 .0770 .0444 .0720 .0554

MACH (1) = .401 ALPHA (5) = 6.277 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8521 .0795 .1091 .1568 .1409 .1587 .1402 .1640 .1370 -.0116 .0693 .0468 .0746 .0508 .0700

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0720 .1296 .0051 .0177 -.0413 -.0413 -.1115 -.1592 -.1592 -.1446 .3833 .3569 .3457 .1376 .1250

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (1) = .401 ALPHA (5) = 6.277

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1303 .0183 .0091 -.0042 .0210 -.0446 -.0545 .0846 .0627 .0683 .0551

MACH (1) = .401 ALPHA (6) = 8.282 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9540 .1391 .1280 .1539 .1366 .1499 .1386 .1413 .1046 .0509 .0650 .0251 .0736 .0384 .0750

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0703 .1022 .0085 .0231 -.0307 -.0307 -.1098 -.1504 -.1504 -.1397 .3511 .3670 .3272 .1186 .1093

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0980 .0131 .0109 -.0010 .0269 -.0303 -.0349 .1000 .0748 .0761 .0629

MACH (1) = .402 ALPHA (7) = 10.378 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9665 .2060 .1249 .1534 .1335 .1236 .1203 .1328 .0442 .1135 .0511 .0034 .0604 .0345 .0551

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0498 .0663 .0074 .0246 -.0330 -.0323 -.1098 -.1588 -.1535 -.1442 .3677 .3723 .3228 .0944 .0832

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0752 .0087 .0043 -.0056 .0163 -.0328 -.0394 .0858 .0739 .0752 .0535

ARC 150-1-14(0A220) TPS(MOD)+ADF+FTP

(XNLP08)

MACH (1) = .402 ALPHA (8) = 12.433 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9312	.2631	.1002	.1293	.1187	.1035	.0989	.1062	-.0100	.1631	.0189	-.0382	.0407	.0110	.0354
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0308	.0295	-.0016	.0130	-.0425	-.0339	-.1217	-.1633	-.1594	-.1468	.2789	.3316	.2730	.0487	.0540
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0553	.0004	-.0055	-.0181	.0071	-.0293	-.0366	.0764	.0632	.0630	.0433				

MACH (1) = .401 ALPHA (9) = 16.524 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.8640	.3949	.0455	.0728	.0568	.0588	.0475	.0389	-.0933	.2903	-.0343	-.0854	.0016	-.0429	-.0197
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0303	-.0436	-.0290	-.0183	-.0708	-.0595	-.1114	-.1718	-.1758	-.1678	.2300	.3088	.2260	-.0044	-.0004
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0016	-.0363	-.0449	-.0363	-.0050	-.0422	-.0536	.0601	.0429	.0286	.0054				

MACH (1) = .401 ALPHA (10) = 20.594 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO = 2129.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.7606	.5162	-.0329	.0030	-.0037	-.0276	-.0283	-.0469	-.1927	.3983	-.1213	-.1738	-.0522	-.1067	-.0854
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.1034	-.1280	-.0854	-.0848	-.0881	-.0874	-.1492	-.2057	-.2157	-.1991	.2187	.2545	.1816	-.0456	-.0529

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ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (1) = .401 ALPHA (10) = 20.594

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0502 -.0994 -.1054 -.0835 -.0516 -.0555 -.0828 .0143 .0003 -.0284 -.0549

MACH (1) = .401 ALPHA (11) = 24.685 RN/L = 2.5441 Q(PSF) = 214.45 P = 1905.6 PO * 2129.1

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .6402 .6178 -.1555 -.1174 -.1074 -.1373 -.1326 -.1525 -.2802 .5139 -.2350 -.3279 -.1315 -.2038 -.1753

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1932 -.1952 -.2051 -.1826 -.1295 -.1341 -.1879 -.2350 -.2496 -.2304 .1985 .1575 .1979 -.0915 -.0975

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0862 -.1693 -.1725 -.0729 -.0736 -.0882 -.1021 .0048 -.0151 -.1327 -.1460

MACH (2) = .620 ALPHA (1) = -1.934 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7842 -.1494 .0608 .1209 .1490 .1777 .1513 .2029 .3773 -.1999 .0899 .0870 .0770 .0773 .0711

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0915 .3593 -.0225 -.0061 -.0694 -.0726 -.1637 -.2067 -.2002 -.1889 .6046 .6072 .5840 .3244 .3163

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3121 -.0148 -.0232 -.0503 -.0342 -.1237 -.1130 .0505 .0411 .0592 .0412

ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (2) = .618 ALPHA (2) = .111 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8379	-.0865	.0853	.1430	.1505	.1849	.1599	2005	.3151	-.1583	.0915	.0883	.0831	.0805	.0698
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0970	.2988	-.0126	-.0009	-.0603	-.0599	-.1514	-.1997	-.1923	-.1799	.5434	.5279	.5214	.2780	.2718
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2679	-.0139	-.0140	-.0075	.0123	-.1045	-.0899	.0580	.0434	.0655	.0555				

MACH (2) = .619 ALPHA (3) = 2.258 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8649	-.0200	.1114	.1716	.1645	.1943	.1706	.2111	.2665	-.0935	.0993	.0815	.0955	.0858	.0903
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1065	.2492	.0081	.0320	-.0369	-.0379	-.1308	-.1696	-.1715	-.1605	.5068	.4810	.4694	.2390	.2341
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2373	.0314	.0226	.0191	.0349	-.0674	-.0580	.0803	.0434	.0829	.0584				

MACH (2) = .618 ALPHA (4) = 4.273 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8452	.0307	.1253	.1716	.1735	.1901	.1703	.1959	.2115	-.0494	.1014	.0748	.0962	.0638	.0855
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0936	.2024	.0117	.0282	-.0434	-.0402	-.1189	-.1671	-.1593	-.1490	.4546	.4032	.4232	.1917	.1823

ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (2) = .618 ALPHA (4) = 4.273

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1885 .0321 .0158 .0158 .0294 -.0546 -.0526 .0867 .0718 .0898 .0714

MACH (2) = .618 ALPHA (5) = 6.348 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9121 .1011 .1221 .1753 .1611 .1873 .1640 .1896 .1658 .0039 .0826 .0622 .0956 .0697 .0839

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0921 .1540 .0188 .0330 -.0302 -.0289 -.1116 -.1632 -.1612 -.1401 .4147 .3853 .3698 .1572 .1435

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1432 .0356 .0212 .0173 .0303 -.0381 -.0446 .0884 .0744 .0918 .0685

MACH (2) = .618 ALPHA (6) = 8.404 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0221 .1565 .1443 .1822 .1543 .1582 .1546 .1579 .1012 .0647 .0665 .0380 .0931 .0500 .0779

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0782 .1148 .0192 .0338 -.0330 -.0226 -.1085 -.1643 -.1555 -.1425 .3894 .3962 .3539 .1154 .1102

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1112 .0260 .0142 .0129 .0291 -.0224 -.0270 .0930 .0781 .0848 .0725

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ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (2) = .618 ALPHA (7) = 10.419 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0227	.2275	.1311	.1727	.1441	.1435	.1324	.1370	.0592	.1362	.0430	.0122	.0661	.0336	.0583
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0580	.0742	.0109	.0245	-.0336	-.0258	-.1193	-.1703	-.1599	-.1417	.4068	.4243	.3146	.0909	.0831
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0867	.0158	.0094	.0003	.0237	-.0199	-.0380	.0977	.0821	.0802	.0679				

MACH (2) = .619 ALPHA (8) = 12.363 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9996	.2913	.1211	.1568	.1250	.1279	.1266	.1205	.0050	.1734	.0409	-.0094	.0616	.0221	.0474
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0405	.0289	.0110	.0243	-.0315	-.0276	-.1177	-.1596	-.1553	-.1430	.3107	.4018	.2913	.0614	.0634
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0621	.0146	-.0028	-.0077	.0241	-.0210	-.0359	.0952	.0705	.0738	.0586				

MACH (2) = .617 ALPHA (9) = 16.575 RN/L = 3.5105 Q(PSF) = 439.47 P = 1642.6 PO = 2125.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9192	.4232	.0504	.0858	.0673	.0595	.0461	.0426	-.0991	.3018	-.0406	-.1069	.0031	-.0402	-.0093
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0275	-.0445	-.0191	-.0197	-.0744	-.0637	-.1138	-.1766	-.2010	-.1776	.2405	.3576	.2279	-.0063	-.0047

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP08)

MACH (2) = .617 ALPHA (9) = 16.575

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	
SET	.000	.0012	-.0435	-.0450	-.0486	-.0196	-.0502	-.0590	.0510	.0318	.0209	-.0002

PARAMETRIC DATA

BETA = .000 TPBGAP = .000
PHI-N = 180.000

MACH (1) = .402 ALPHA (1) = -1.883 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.7197	-.1769	.0329	.0959	.1138	.1457	.1211	.1576	.3798	-.2225	.0692	.0679	.0533	.0460	.0466
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0646	.3312	-.0482	-.0283	-.0940	-.0960	-.1703	-.2141	-.2054	-.2041	.5756	.5689	.5498	.2843	.2883
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2883	-.0383	-.0400	-.0752	-.0599	-.1389	-.1362	.0309	.0117	.0261	.0043				

MACH (1) = .400 ALPHA (2) = .142 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.8819	-.1147	.0672	.1146	.1226	.1640	.1406	.1786	.3048	-.1678	.0778	.0785	.0738	.0678	.0631
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0785	.2799	-.0155	.0005	-.0722	-.0656	-.1409	-.1869	-.1816	-.1656	.4830	.4837	.4823	.2540	.2494
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2514	.0005	-.0175	-.0342	-.0162	-.1049	-.0963	.0512	.0379	.0555	.0316				

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TABULATED SOURCE DATA - OA220

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ARC 150-1-14(OA220) TPS(MOD) FADP+FTP

(XNLP09)

MACH (1) = .400 ALPHA (3) = 2.227 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.8754	-.0499	.0887	.1473	.1353	.1653	.1387	.1787	.2470	-.1051	.0775	.0642	.0695	.0629
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0835	.2302	-.0111	.0129	-.0691	-.0571	-.1311	-.1724	.1698	-.1631	.4575	.4350	.4237	.2127
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.1967	.0149	.0073	-.0027	.0073	-.0880	-.0640	.0687	.0387	.0630	.0437			

MACH (1) = .401 ALPHA (4) = 4.232 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.9276	.0085	.1041	.1500	.1547	.1673	.1321	.1773	.2033	-.0578	.0837	.0631	.0771	.0618
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0844	.1841	-.0020	.0173	-.0539	-.0486	-.1190	-.1655	-.1596	-.1522	.4452	.4094	.3941	.1879
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.1713	.0226	.0071	.0004	.0097	-.0720	-.0587	.0722	.0589	.0741	.0582			

MACH (1) = .400 ALPHA (5) = 6.237 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	1.0056	.0756	.1313	.1673	.1420	.1547	.1373	.1560	.1540	-.0114	.0655	.0515	.0695	.0621
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0768	.1408	.0049	.0228	-.0484	-.0338	-.1144	-.1604	-.1637	-.1530	.4502	.3865	.3904	.1540

ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP09)

MACH (1) = .400 ALPHA (5) = 6.237

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1427 .0208 .0127 -.0120 .0293 -.0420 -.0393 .0833 .0680 .0809 .0563

MACH (1) = .401 ALPHA (6) = 8.252 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0020 .1360 .1368 .1601 .1382 .1494 .1402 .1402 .1122 .0561 .0656 .0324 .0755 .0576 .0669

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0742 .1114 .0139 .0172 -.0359 -.0359 -.1008 -.1559 -.1512 -.1419 .3998 .3720 .3390 .1203 .1083

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1130 .0205 .0055 -.0078 .0294 -.0244 -.0330 .0964 .0725 .0884 .0541

MACH (1) = .400 ALPHA (7) = 10.287 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9737 .1944 .1231 .1451 .1271 .1311 .1171 .1145 .0616 .1100 .0414 .0015 .0566 .0161 .0528

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0428 .0681 .0095 .0128 -.0331 -.0345 -.1110 -.1610 -.1570 -.1443 .3039 .3723 .3045 .0858 .0732

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0839 .0128 -.0014 -.0114 .0266 -.0254 -.0360 .0878 .0692 .0722 .0569

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP09)

MACH (1) = .400 ALPHA (8) = 12.353 RN/L = 2.5717 Q(PSF) = 2.1.02 P = 1903.6 PO = 2126.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9518	.2641	.1117	.1304	.1017	.1037	.0957	.0924	.0151	.1638	.0153	-.0300	.0346	.0046	.0326
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0352	.0226	-.0014	.0079	-.0540	-.0473	-.1299	-.1732	-.1612	-.1485	.2826	.3245	.2594	.0524	.0471
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0511	.0006	-.0069	-.0222	.0098	-.0382	-.0509	.0751	.0611	.0616	.0370				

MACH (1) = .401 ALPHA (9) = 16.463 RN/L = 2.5717 Q(PSF) = 214.02 P = 1903.6 PO = 2126.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.8725	.4047	.0371	.0802	.0576	.0543	.0424	.0305	-.0645	.2884	-.0299	-.0869	.0019	-.0471	-.0146
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0279	-.0445	-.0226	-.0299	-.0710	-.0657	-.1160	-.1770	-.1803	-.1744	.2421	.3228	.2210	-.0054	.0053
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0013	-.0425	-.0425	-.0372	-.0087	-.0478	-.0551	.0563	.0411	.0313	.0029				

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OF POOR QUALITY

PARAMETRIC DATA

BETA = .000 TPGAP = .000
 PHI-N = 180.000

MACH (1) = .622 ALPHA (1) = -1.954 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000		.7441	-.1496	.0857	.1245	.1444	.1826	.1611	.2077	.4195	-.2043	.0952	.0868	.0830	.0830	.0846
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000		.0849	.3688	-.0246	.0014	-.0767	-.0680	-.1630	-.2048	-.1980	-.1881	.5892	.6138	.5677	.3230	.3124
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000		.3201	-.0169	-.0229	-.0554	-.0268	-.1289	-.1138	.0516	.0307	.0623	.0383				

MACH (1) = .620 ALPHA (2) = .152 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY		DEPENDENT VARIABLE CP														
TAP NO		1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000		.9434	-.0912	.0896	.1551	.1509	.1883	.1634	.2028	.3445	-.1606	.0882	.0914	.0875	.0837	.0788
TAP NO		16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000		.1066	.2945	-.0127	.0069	-.0611	-.0550	-.1446	-.1930	-.1907	-.1775	.5213	.5162	.4885	.2615	.2657
TAP NO		32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000		.2644	-.0060	-.0104	-.0078	.0025	-.0978	-.0852	.0548	.0399	.0670	.0506				

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP10)

MACH (1) = .620 ALPHA (3) = 2.146 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9283	-.0331	.1078	.1595	.1601	.1921	.1678	.2056	.2849	-.1155	.0969	.0798	.0940	.0811	.0937
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1001	.2480	.0065	.0230	-.0561	-.0419	-.1265	-.1726	-.1749	-.1649	.4931	.4490	.4494	.2350	.2163
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2166	.0201	.0225	.0128	.0248	-.0727	-.0588	.0745	.0416	.0847	.0554				

MACH (1) = .620 ALPHA (4) = 4.212 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9860	.0256	.1235	.1731	.1696	.1903	.1602	.1977	.2237	-.0609	.0961	.0755	.0942	.0719	.0829
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1006	.1971	.0142	.0319	-.0377	-.0361	-.1213	-.1658	-.1661	-.1516	.4935	.4327	.4234	.1935	.1748
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1796	.0352	.0176	.0144	.0380	-.0569	-.0530	.0838	.0702	.0922	.0710				

MACH (1) = .620 ALPHA (5) = 6.257 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0589	.0897	.1432	.1752	.1662	.1753	.1571	.1856	.1751	.0009	.0831	.0566	.0935	.0806	.0854
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0873	.1552	.0150	.0360	-.0338	-.0231	-.1146	-.1588	-.1601	-.1466	.4652	.4140	.3931	.1639	.1413

ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP10)

MACH (1) = .620 ALPHA (5) = 6.257

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1448 .0366 .0156 .0105 .0389 -.0399 -.0461 .0893 .0767 .0926 .0714

MACH (1) = .620 ALPHA (6) = 8.323 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0556 .1642 .1501 .1850 .1592 .1643 .1576 .1579 .1416 .0747 .0777 .0415 .0870 .0605 .0806

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0822 .1186 .0270 .0418 -.0243 -.0172 -.0982 -.1550 -.1569 -.1398 .4479 .4357 .3681 .1424 .1169

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1243 .0247 .0172 .0124 .0475 -.0151 -.0221 .0959 .0798 .0973 .0686

MACH (1) = .621 ALPHA (7) = 10.369 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0326 .2392 .1390 .1706 .1496 .1487 .1484 .1448 .0929 .1315 .0544 .0131 .0783 .0406 .0693

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0648 .0803 .0241 .0322 -.0250 -.0185 -.1056 -.1547 -.1476 -.1402 .3530 .4238 .3218 .0967 .0916

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0906 .0167 .0125 -.0011 .0402 -.0159 -.0272 .1038 .0828 .0845 .0710

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP10)

MACH (1) = .620 ALPHA (8) = 12.383 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9973	.2938	.1216	.1556	.1310	.1291	.1145	.158	.0412	.1869	.0390	-.0089	.0593	.0199	.0383
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0380	.0299	.0112	.0263	-.0399	-.0322	-.1136	-.1602	-.1453	-.1395	.3170	.3866	.2909	.0560	.0544
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0612	.0095	.0000	-.0035	.0230	-.0281	-.0378	.0941	.0857	.0737	.0486				

MACH (1) = .619 ALPHA (9) = 16.564 RN/L = 3.4623 Q(PSF) = 441.00 P = 1637.7 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9271	.4244	.0660	.1012	.0799	.0663	.0553	.0520	-.0500	.3056	-.0225	-.0847	.0115	-.0342	-.0112
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0141	-.0517	-.0131	-.0115	-.0704	-.0601	-.1193	-.1701	-.1889	-.1688	.2562	.3537	.2265	-.0079	-.0001
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0005	-.0326	-.0445	-.0451	-.0075	-.0548	-.0610	.0549	.0400	.0291	-.0019				

ARC 150-1-14(0A220) TPS+ADP+FI?

(XNLP11) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSCAP = .010
 PHI-N = .000

MACH (1) = .299 ALPHA (1) = -2.167 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
 .000 .6662 -.1702 .0564 .0825 .1177 .1597 .1370 .1620 .3866 -.2098 .1031 .1156 .0861 .0747 .0736

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
 .000 .0861 .3585 -.0184 .0066 -.0536 -.0592 -.1240 -.1750 -.1694 -.1694 .5507 .5711 .5756 .3118 .3096

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
 .000 .3016 -.0309 -.0379 -.0481 -.0379 -.1151 -.1140 .0427 .0291 .0437 .0222

MACH (1) = .299 ALPHA (2) = -.061 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
 .000 .8189 -.1219 .0986 .1135 .1409 .1671 .1363 .1626 .3241 -.1583 .1038 .1140 .0798 .0752 .0764

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
 .000 .0901 .2875 -.0024 .0182 -.0515 -.0538 -.1211 -.1633 -.1622 -.1599 .5095 .5402 .5232 .2734 .2665

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
 .000 .2562 .0067 -.0145 -.0167 -.0053 -.0944 -.0967 .0305 .0404 .0636 .0317

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (1) = .299 ALPHA (3) = 1.984 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8518	-.0395	.1081	.1333	.1493	.1687	.1607	.1744	.2656	-.1135	.1089	.1237	.0963	.0769	.0940
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0986	.2414	.0141	.0312	-.0270	-.0316	-.1001	-.1435	-.1447	-.1447	.4591	.4671	.4750	.2293	.2190
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2327	.0301	.0144	.0064	.0190	-.0439	-.0610	.0301	.0636	.0721	.0584				

MACH (1) = .297 ALPHA (4) = 3.979 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7993	-.0109	.1031	.1342	.1492	.1619	.1308	.1527	.2063	-.0821	.1081	.1046	.0781	.0620	.0747
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0885	.1784	.0113	.0239	-.0383	-.0349	-.1086	-.1501	-.1559	-.1524	.3890	.3753	.4155	.1746	.1781
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1746	.0343	.0074	.0028	.0051	-.0653	-.0653	.0720	.0547	.0673	.0477				

MACH (1) = .298 ALPHA (5) = 6.024 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8796	.0659	.1210	.1428	.1371	.1634	.1497	.1657	.1687	-.0107	.0891	.1017	.0994	.0799	.0971
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1006	.1671	.0306	.0409	-.0130	-.0130	-.0760	-.1150	-.1299	-.1219	.3893	.3710	.4146	.1566	.1462

ORIGINAL PAGE IS OF POOR QUALITY

ARC 150-1-14(OA220) TPS+ADP+FTF

(XNLP11)

MACH (1) = .298 ALPHA (5) = 6.024

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1657 .0432 .0327 .0178 .0270 -.0304 -.0338 .1004 .0763 .0888 .0716

MACH (1) = .299 ALPHA (6) = 8.049 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9741 .1397 .1351 .1396 .1555 .1566 .1441 .1521 .1193 .0583 .0823 .0846 .0721 .0630 .0823

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0857 .1231 .0301 .0324 -.0107 -.0073 -.0833 -.1310 -.1321 -.1298 .3715 .3590 .3511 .1294 .1146

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1328 .0358 .0284 .0147 .0306 -.0148 -.0341 .1010 .0760 .0809 .0628

MACH (1) = .299 ALPHA (7) = 10.135 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9955 .2054 .1232 .1493 .1243 .1470 .1277 .1300 .0843 .1126 .0624 .0590 .0647 .0454 .0715

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0658 .0851 .0272 .0306 -.0170 -.0091 -.0840 -.1351 -.1362 -.1385 .3718 .3639 .3605 .1073 .0823

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0959 .0250 .0175 -.0018 .0232 -.0199 -.0256 .1004 .0698 .0898 .0560

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ARC 150-1-14(0A220) TPS+ADP+FTIP

(XNLP11)

MACH (1) = .299 ALPHA (8) = 12.123 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9827 .2498 .1036 .1321 .1036 .1161 .1058 .1076 .0290 .1474 .0465 .0122 .0499 .0294 .0373

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0453 .0362 .0122 .0351 -.0289 -.0254 -.1042 -.1419 -.1442 -.1442 .2828 .3215 .2737 .0625 .0533

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0556 .0008 -.0106 -.0072 .0077 -.0277 -.0357 .0887 .0647 .0666 .0359

MACH (1) = .299 ALPHA (9) = 16.220 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9350 .3721 .0448 .0790 .0585 .0505 .0459 .0471 -.0543 .2800 -.0264 -.0538 .0009 -.0184 .0009

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0105 -.0344 -.0150 -.0013 -.0595 -.0492 -.1074 -.1450 -.1655 -.1667 .2561 .2982 .2755 .0106 .0083

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0106 -.0253 -.0351 -.0396 -.0202 -.0419 -.0476 .0608 .0322 .0242 .0003

MACH (1) = .299 ALPHA (10) = 20.230 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8541 .4832 -.0373 -.0373 -.0008 -.0179 -.0396 -.0259 -.1392 .3763 -.1154 -.1439 -.0458 -.0777 -.0629

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0732 -.1051 -.0663 -.0549 -.0743 -.0766 -.1314 -.1690 -.1953 -.1839 .2716 .2170 .2682 -.0327 -.0350

ARC 150-1-14(0A220) TPS+ADP+FITP

(XNLP11)

MACH (1) = .299 ALPHA (10) = 20.230

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 -.0293 -.0834 -.0921 -.0727 -.0442 -.0590 -.0716 .0301 .0118 -.0231 -.0447

MACH (1) = .298 ALPHA (11) = 24.351 RN/L = 2.0170 Q(PSF) = 124.46 P = 1993.2 PO = 2120.2

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .7607 .6110 -.1691 -.1061 -.0966 -.1187 -.1244 -.1439 -.2175 .4807 -.2062 -.2509 -.1329 -.1833 -.1581

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.1810 -.1718 -.1913 -.1638 -.1214 -.1157 -.1684 -.2259 -.2463 -.2360 .2499 .1848 .2602 -.0785 -.0889

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 -.0762 -.1604 -.1634 -.0843 -.0820 -.0636 -.1026 .0166 -.0189 -.1204 -.1341

MACH (2) = .402 ALPHA (1) = -2.126 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .6306 -.1950 .0483 .0722 .1059 .1482 .1185 .1502 .3816 -.2293 .0913 .1038 .0655 .0523 .0536

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0800 .3504 -.0350 -.0052 -.0760 -.0733 -.1566 -.1963 -.2009 -.1903 .5615 .5759 .5713 .3043 .2984

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2997 -.0204 -.0423 -.0839 -.0482 -.1289 -.1256 .0371 .0146 .0290 .0086

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ARC 150-1-14(0A220) TPS+ADP+FT²

(XNLP11)

MACH (2) = .401 ALPHA (2) = -.101 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8394	-.1327	.0837	.0970	.1236	.1502	.1243	.1589	.3046	-.1864	.0947	.1054	.0628	.0622	.0655
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0794	.2789	-.0163	-.0017	-.0562	-.0675	-.1393	-.1859	-.1859	-.1779	.5107	.5213	.5107	.2566	.2520
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2440	-.0156	-.0301	-.0254	-.0207	-.1119	-.1052	.0471	.0351	.0575	.0217				

MACH (2) = .401 ALPHA (3) = 1.934 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8613	-.0632	.0952	.1338	.1404	.1557	.1444	.1717	.2775	-.1235	.1051	.1011	.0772	.0699	.0885
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0945	.2420	.0087	.0253	-.0398	-.0351	-.1109	-.1588	-.1627	-.1541	.4431	.4683	.4663	.2256	.2109
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2236	.0214	.0061	-.0019	.0147	-.0724	-.0784	.0580	.0540	.0687	.0488				

MACH (2) = .401 ALPHA (4) = 3.969 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8222	-.0022	.1084	.1390	.1436	.1629	.1370	.1669	.2139	-.0744	.0998	.0998	.0852	.0679	.0905
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0945	.1975	.0127	.0340	-.0318	-.0292	-.1049	-.1468	-.1508	-.1468	.4107	.3895	.4279	.1849	.1709

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OF POOR QUALITY

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (2) = .401 ALPHA (4) = 3.969

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1902 .0253 .0041 .0101 .0214 -.0597 -.0710 .0792 .0599 .0740 .0528

MACH (2) = .400 ALPHA (5) = 5.974 RN/L = 2.5817 Q:PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8786 .0452 .1077 .1324 .1271 .1571 .1217 .1557 .1582 -.0305 .0861 .0874 .0781 .0628 .0781

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0874 .1548 .0214 .0241 -.0199 -.0279 -.1086 -.1419 -.1546 -.1519 .3669 .3562 .3735 .1351 .1291

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1497 .0341 .0037 .0030 .0163 -.0470 -.0563 .0790 .0664 .0831 .0539

MACH (2) = .402 ALPHA (6) = 8.090 RN/L = 2.5817 Q:PSF) = 213.67 P = 1896.2 PO * 2118.5

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0053 .1253 .1032 .1324 .1450 .1490 .1258 .1477 .1187 .0492 .0820 .0793 .0607 .0561 .0780

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0760 .1158 .0222 .0315 -.0203 -.0189 -.0959 -.1430 -.1517 -.1457 .3443 .3423 .3298 .1185 .0999

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1158 .0255 .0136 .0096 .0282 -.0183 -.0329 .0936 .0733 .0810 .0572

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ARC 150-1-14(0A220) TPS+ADP+FTF

(XNLP11)

MACH (2) = .401 ALPHA (7) = 10.105 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0130	.1942	.0874	.1227	.1301	.1234	.0901	.1301	.0662	.1040	.0696	.0469	.0536	.0456	.0609
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0616	.0762	.0217	.0230	-.0316	-.0223	-.1042	-.1498	-.1561	-.1521	.3966	.3608	.3382	.0868	.0754
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0814	.0083	-.0052	-.0012	.0168	-.0245	-.0392	.0348	.0701	.0649	.0509				

MACH (2) = .401 ALPHA (8) = 12.160 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0024	.2546	.0939	.0992	.0966	.1086	.0732	.0939	.0297	.1505	.0274	.0201	.0307	.0154	.0347
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0387	.0380	.0094	.0267	-.0265	-.0292	-.1117	-.1533	-.1563	-.1489	.2964	.3435	.2785	.0519	.0492
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0526	.0008	-.0074	-.0074	.0099	-.0301	-.0461	.0732	.0619	.0569	.0350				

MACH (2) = .400 ALPHA (9) = 16.251 RN/L = 2.5817 Q(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9504	.3731	.0381	.0561	.0708	.0474	.0428	.0348	-.0507	.2722	-.0235	-.0534	-.0135	-.0281	-.0041
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0135	-.0321	-.0241	-.0081	-.0548	-.0454	-.1074	-.1547	-.1800	-.1721	.2303	.2941	.2283	-.0092	.0001

ARC 150-1-14(0A220) TPS+ADP+FTF

(XNLP11)

MACH (2) = .400 ALPHA (9) = 16.251

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0034 -.0394 -.0499 -.0392 -.0166 -.0386 -.0572 .0908 .0314 .0324 .0091

MACH (2) = .402 ALPHA (10) = 20.270 RN/L = 2.5817 C(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8672 .4982 -.0416 -.0489 -.0052 -.0383 -.0555 -.0469 -.1562 .3848 -.1192 -.1463 -.0610 -.0974 -.0815

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0808 -.1106 -.0828 -.0703 -.0874 -.0835 -.1423 -.1926 -.2137 -.2091 .2109 .2412 .2017 -.0456 -.0502

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0489 -.0960 -.1057 -.0905 -.0489 -.0647 -.0760 .0166 .0020 -.0296 -.0580

MACH (2) = .402 ALPHA (11) = 24.391 RN/L = 2.5817 C(PSF) = 213.67 P = 1896.2 PO = 2118.5

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7681 .6101 -.1931 -.1414 -.0937 -.1394 -.1255 -.1414 -.2326 .5004 -.2090 -.2681 -.1474 -.1732 -.1606

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1765 -.1785 -.1885 -.1547 -.1149 -.1162 -.1712 -.2124 -.2488 -.2342 .2076 .1613 .1904 -.0870 -.0930

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0797 -.1606 -.1673 -.0857 -.0671 -.0658 -.0937 .0191 -.0141 -.1209 -.1520

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (3) = .500 ALPHA (1) = -2.116 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.6696	-.1818	.0581	.0908	.1241	.1568	.1309	.1687	.3895	-.2185	.1022	.1063	.0744	.0649
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0840	.3514	-.0288	-.0056	-.0670	-.0757	-.1521	-.1998	-.1930	-.1875	.5776	.5717	.5654	.3097
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.3029	-.0361	-.0384	-.0634	-.0461	-.1266	-.1244	.0326	.0262	.0449	.0218			

MACH (3) = .499 ALPHA (2) = -.091 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.8403	-.1302	.0938	.1075	.1381	.1623	.1413	.1709	.3225	-.1688	.1098	.1088	.0833	.0674
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.0943	.2989	.0003	.0172	-.0516	-.0539	-.1392	-.1820	-.1793	-.1711	.5403	.5016	.5366	.2726
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.2681	-.0069	-.0120	-.0165	.0035	-.0986	-.1023	.0592	.0469	.0612	.0385			

MACH (3) = .500 ALPHA (3) = 1.934 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.8745	-.0564	.1118	.1405	.1604	.1745	.1586	.1804	.2814	-.1125	.1088	.1152	.0961	.0820
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1020	.2627	.0098	.0261	-.0361	-.0370	-.1187	-.1623	-.1659	-.1587	.4611	.4770	.4652	.2295

ARC 150-1-14(0A220) TPS+ADP+FT?

(XNLP11)

MACH (3) = .500 ALPHA (3) = 1.934

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2381 .0153 -.0004 .0096 .0132 -.0658 -.0790 .0609 .0528 .0804 .0523

MACH (3) = .499 ALPHA (4) = 3.989 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8312 -.0018 .1144 .1390 .1536 .1686 .1481 .1709 .2214 -.0768 .1088 .1015 .0842 .0692 .0902

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0924 .2018 .0190 .0268 -.0288 -.0266 -.1127 -.1597 -.1619 -.1574 .4136 .3909 .4331 .1851 .1755

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1910 .0259 .0017 .0095 .0108 -.0630 -.0658 .0710 .0560 .0828 .0559

MACH (3) = .500 ALPHA (5) = 5.994 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8854 .0636 .1148 .1511 .1497 .1643 .1402 .1675 .1736 -.0174 .1043 .0920 .0893 .0611 .0906

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0952 .1624 .0239 .0398 -.0184 -.0220 -.0992 -.1414 -.1482 -.1432 .3819 .3574 .3914 .1525 .1425

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1556 .0398 .0066 .0148 .0275 -.0397 -.0447 .0939 .0761 .0867 .0600

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS+ADP+FTF

(XNLP11)

MACH (3) = .500 ALPHA (6) = 8.009 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0141	.1304	.1090	.1227	.1468	.1450	.1286	.1505	.1190	.0268	.0892	.0705	.0787	.0527	.0810
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0760	.1224	.0236	.0463	-.0188	-.0192	-.0944	-.1450	-.1573	-.1477	.3692	.3701	.3570	.1168	.1058
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1158	.0309	.0133	.0106	.0247	-.0085	-.0313	.1095	.0698	.0845	.0609				

MACH (3) = .500 ALPHA (7) = 10.105 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0388	.2070	.0852	.1251	.1256	.1410	.1088	.1315	.0871	.1057	.0700	.0554	.0645	.0445	.0722
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0681	.0827	.0309	.0341	-.0131	-.0208	-.0926	-.1484	-.1507	-.1425	.3460	.3677	.3279	.0984	.0847
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0884	.0164	.0107	.0075	.0321	.0107	-.0233	.1006	.0784	.0857	.0599				

MACH (3) = .499 ALPHA (8) = 12.160 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0260	.2679	.0967	.1140	.1081	.1131	.0738	.0999	.0339	.1634	.0423	.0204	.0405	.0181	.0414
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0441	.0332	.0127	.0341	-.0266	-.0229	-.1077	-.1501	-.1629	-.1506	.3143	.3507	.2798	.0556	.0560

ARC 150-1-14(0A220) TPS+ADP+FTF

(XNLP11)

MACH (3) = .499 ALPHA (8) = 12.160

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0469 .0063 -.0088 -.0042 .0236 .0104 -.0147 .0811 .0647 .0757 .0566

MACH (3) = .499 ALPHA (9) = 16.281 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9794 .3954 .0446 .0560 .0665 .0482 .0451 .0451 -.0527 .2682 -.0193 -.0548 -.0033 -.0293 -.0111

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0138 -.0338 -.0188 -.0074 -.0666 -.0480 -.1108 -.1564 -.1865 -.1710 .2186 .3118 .1859 -.0042 .0013

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0015 -.0425 -.0489 -.0174 .0213 -.0028 -.0256 .0519 .0318 .0455 .0196

MACH (3) = .498 ALPHA (10) = 20.361 RN/L = 3.0468 Q(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8992 .5130 -.0504 -.0302 -.0014 -.0390 -.0541 -.0440 -.1425 .3984 -.1106 -.1537 -.0635 -.1024 -.0809

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0909 -.1093 -.0708 -.0809 -.0868 -.0832 -.1390 -.1899 -.2146 -.2023 .1665 .2747 .1620 -.0559 -.0472

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0509 -.0960 -.1091 -.0486 -.0247 -.0206 -.0820 .0202 -.0023 -.0188 -.0489

ARC 150-1-14(0A220) TPS+ADP+FTF

(XNLP11)

MACH (3) = .498 ALPHA (11) = 24.482 RN/L = 3.0468 G(PSF) = 311.91 P = 1786.0 PO = 2117.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.8011	.6236	-.1917	-.1406	-.0830	-.1287	-.1342	-.1406	-.2339	.5085	-.2112	-.2701	-.1354	-.1770
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	-.1783	-.1733	-.1815	-.1578	-.1190	-.1185	-.1697	-.2263	-.2546	-.2377	.1626	.1981	.1616	-.0921
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	-.0857	-.1573	-.1675	-.0825	-.0793	-.0629	-.1035	.0038	-.0378	-.1292	-.1474			

MACH (4) = .621 ALPHA (1) = -2.157 RN/L = 3.5032 G(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.7212	-.1721	.0638	.0976	.1331	.1698	.1460	.1898	.4173	-.2226	.1079	.1086	.0883	.0777
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1018	.3769	-.0158	.0110	-.0673	-.0663	-.1578	-.2010	-.2023	-.1959	.5981	.6014	.5859	.3267
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET	.000	.3231	-.0280	-.0319	-.0618	-.0361	-.1327	-.1208	.0419	.0326	.0527	.0264			

MACH (4) = .621 ALPHA (2) = -.132 RN/L = 3.5032 G(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET	.000	.8750	-.1102	.1060	.1205	.1601	.1759	.1592	.1911	.3360	-.1657	.1241	.1148	.0971	.0868
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET	.000	.1116	.3143	.0028	.0221	-.0448	-.0468	-.1424	-.1655	-.1829	-.1716	.5529	.5455	.5635	.2797

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (4) = .621 ALPHA (2) = -.132

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2790 .0028 -.0212 -.0074 .0016 -.0989 -.1015 .0564 .0516 .0653 .0502

MACH (4) = .622 ALPHA (3) = 1.924 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8845 -.0435 .1291 .1451 .1660 .1855 .1711 .2009 .2988 -.1072 .1226 .1214 .1043 .0912 .1076

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1201 .2686 .0222 .0344 -.0308 -.0295 -.1126 -.1572 -.1649 -.1607 .4843 .4384 .4834 .2446 .2375

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2468 .0273 .0097 .0142 .0293 -.0635 -.0609 .0745 .0646 .0829 .0633

MACH (4) = .621 ALPHA (4) = 4.009 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8441 .0156 .1220 .1545 .1651 .1841 .1590 .1905 .2409 -.0671 .1208 .1079 .0992 .0796 .1076

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1134 .2119 .0265 .0339 -.0234 -.0254 -.1116 -.1538 -.1638 -.1551 .4267 .4389 .4398 .1899 .1841

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2060 .0297 .0132 .0190 .0306 -.0544 -.0573 .0866 .0644 .0914 .0660

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ARC 150-1-14(OA220) TPS+ADP+FT²

(XNLP11)

MACH (4) = .621 ALPHA (5) = 6.024 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9348	.0661	.1312	.1618	.1618	.1914	.1489	.1833	.1887	-.0083	.1140	.1002	.0928	.0815	.1005
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1057	.1720	.0365	.0468	-.0115	-.0118	-.1016	-.1486	-.1572	-.1428	.4030	.3808	.4004	.1531	.1486
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1637	.0407	.0192	.0237	.0350	-.0297	-.0442	.0913	.0726	.0969	.0738				

MACH (4) = .622 ALPHA (6) = 8.059 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0499	.1532	.1159	.1535	.1638	.1709	.1451	.1738	.1430	.0584	.0988	.0837	.0940	.0695	.0911
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0953	.1326	.0374	.0541	-.0154	-.0105	-.0877	-.1459	-.1530	-.1446	.3770	.3895	.3744	.1274	.1165
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1320	.0348	.0171	.0151	.0299	-.0283	-.0315	.0972	.0721	.0891	.0712				

MACH (4) = .621 ALPHA (7) = 10.145 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0764	.2215	.1046	.1362	.1443	.1585	.1140	.1456	.0920	.1135	.0823	.0629	.0736	.0500	.0729
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0826	.0923	.0291	.0410	-.0151	-.0080	-.0915	-.1512	-.1563	-.1425	.3924	.3895	.3342	.0953	.0904

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (4) = .621 ALPHA (7) = 10.145

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0911 .0249 .0031 .0089 .0269 -.0195 -.0327 .0937 .0705 .0747 .0570

MACH (4) = .620 ALPHA (8) = 12.201 RN/L = 3.5032 Q(P5F) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.9673 .2828 .1023 .1269 .1291 .1353 .0900 .1217 .0422 .1704 .0560 .0334 .0479 .0324 .0547

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0553 .0440 .0159 .0337 -.0216 -.0177 -.1078 -.1450 -.1637 -.1521 .3169 .3971 .2683 .0629 .0625

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0545 .0095 -.0124 -.0079 .0173 -.0263 -.0344 .0936 .0667 .0570 .0380

MACH (4) = .620 ALPHA (9) = 16.362 RN/L = 3.5032 Q(P5F) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0218 .4173 .0544 .0605 .0841 .0650 .0408 .0511 -.0526 .2974 -.0020 -.0437 .0090 -.0230 .0022

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.0068 -.0246 -.0114 -.0001 -.0521 -.0385 -.1061 -.1504 -.1872 -.1681 .2433 .3390 .2136 .0043 .0027

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0062 -.0369 -.0493 -.0422 -.0151 -.0429 -.0542 .0644 .0347 .0319 .0064

ARC 150-1-14(OA220) TPS+ADP+FTF

(XNLP11)

MACH (4) = .618 ALPHA (10) = 20.412 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9529	.5378	-.0199	-.0076	.0206	-.0131	-.0432	-.0306	-.1353	.4085	-.0886	-.1340	-.0478	-.0964	-.0750
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	29.0000	29.0000	30.0000	31.0000	
SET	.000	-.0825	-.0984	-.0549	-.0643	-.0747	-.0721	-.1347	-.1843	-.2131	-.1937	.1877	.3325	.1767	-.0523	-.0501
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.0455	-.0967	-.1013	-.0854	-.0504	-.0533	-.0825	.0268	.0009	-.0257	-.0509				

MACH (4) = .617 ALPHA (11) = 24.543 RN/L = 3.5032 Q(PSF) = 439.94 P = 1632.5 PO = 2116.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8610	.6578	-.1915	-.1304	-.0686	-.1177	-.1388	-.1346	-.2406	.5356	-.1964	-.2579	-.1324	-.1717	-.1704
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.1802	-.1864	-.1815	-.1542	-.1223	-.1152	-.1691	-.2244	-.2550	-.2403	.1684	.2374	.1554	-.1005	-.1014
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.0972	-.1558	-.1700	-.0962	-.0845	-.0832	-.1164	.0117	-.0257	-.1411	-.1583				

MACH (5) = .701 ALPHA (1) = -2.167 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.6875	-.1582	.0839	.1124	.1696	.1902	.1691	.2022	.4332	-.2110	.1356	.1337	.1042	.0879	.0982
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1166	.3902	-.0094	.0158	-.0520	-.0593	-.1452	-.1957	-.1996	-.1946	.6256	.6378	.5929	.3405	.3364

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (5) = .701 ALPHA (1) = -2.167

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .3378 -.0113 -.0197 -.0498 -.0294 -.1219 -.1065 .0576 .0351 .0664 .0345

MACH (5) = .699 ALPHA (2) = -.061 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8488 -.1050 .1148 .1322 .1646 .1926 .1697 .2040 .3590 -.1617 .1267 .1267 .1055 .0897 .1055

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1208 .3183 .0095 .0272 -.0430 -.0417 -.1315 -.1850 -.1891 -.1792 .5860 .5570 .5591 .2897 .2775

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2884 .0059 -.0090 .0048 .0160 -.0956 -.0336 .0680 .0604 .0772 .0564

MACH (5) = .699 ALPHA (3) = 1.863 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8816 -.0383 .1238 .1569 .1779 .1992 .1833 .2086 .3148 -.1111 .1259 .1296 .1101 .0895 .1120

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1248 .2885 .0300 .0446 -.0325 -.0265 -.1156 -.1708 -.1763 -.1689 .4936 .5160 .5228 .2539 .2471

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2553 .0248 .0148 .0165 .0271 -.0577 -.0672 .0697 .0656 .0860 .0698

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (5) = .702 ALPHA (4) = 4.020 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .08561 .0294 .1445 .1750 .1820 .2074 .1874 .2098 .2622 -.0553 .1393 .1263 .1215 .0964 .1220

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1287 .2388 .0449 .0608 -.0161 -.0091 -.0970 -.1464 -.1627 -.1451 .4375 .4443 .4773 .2106 .2096

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2239 .0562 .0317 .0355 .0452 -.0382 -.0393 .0938 .0741 .1068 .0856

MACH (5) = .697 ALPHA (5) = 6.116 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9122 .0889 .1461 .1810 .1794 .1979 .1723 .1938 .2046 -.0061 .1279 .1091 .1074 .0862 .1159

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1200 .1810 .0462 .0603 -.0053 -.0029 -.0829 -.1325 -.1467 -.1306 .4237 .3871 .4202 .1717 .1611

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1723 .0568 .0311 .0363 .0491 -.0316 -.0256 .1060 .0853 .1050 .0811

MACH (5) = .697 ALPHA (6) = 8.151 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0660 .1584 .1323 .1710 .1762 .1871 .1517 .1828 .1563 .0676 .1148 .0900 .1014 .0720 .1047

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1061 .1401 .0474 .0649 -.0047 .0000 -.0838 -.1345 -.1470 -.1334 .3933 .4033 .3916 .1378 .1236

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (5) = .697 ALPHA (6) = 8.151

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1337 .0450 .0254 .0267 .0393 -.0194 -.0224 .1080 .0837 .0994 .0772

MACH (5) = .698 ALPHA (7) = 10.186 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1055 .2368 .1110 .1573 .1644 .1701 .1341 .1654 .1103 .1236 .1008 .0714 .0880 .0648 .0863

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0861 .0983 .0330 .0479 -.0172 -.0095 -.0929 -.1530 -.1631 -.1490 .3751 .4125 .3403 .1066 .0949

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0946 .0240 .0093 .0118 .0265 -.0223 -.0315 .0922 .0747 .0715 .0541

MACH (5) = .706 ALPHA (8) = 12.231 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0972 .3011 .1097 .1553 .1470 .1574 .1164 .1419 .0619 .1879 .0757 .0475 .0765 .0475 .0762

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0706 .0647 .0430 .0489 -.0021 .0052 -.0857 -.1339 -.1409 -.1267 .3233 .4007 .3030 .0733 .0706

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0736 .0197 .0084 .0057 .0331 -.0114 -.0237 .1036 .0878 .0723 .0560

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (5) = .698 ALPHA (9) = 16.392 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0552 .4326 .0682 .0916 .0968 .0895 .0475 .0772 -.0305 .3091 .0129 -.0266 .0257 -.0026 .0224

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0096 -.0089 .0118 .0216 -.0320 -.0274 -.0957 -.1414 -.1641 -.1488 .2755 .3463 .2201 .0124 .0143

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0208 -.0222 -.0320 -.0309 .0007 -.0431 -.0510 .0704 .0521 .0422 .0167

MACH (5) = .695 ALPHA (10) = 20.412 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9899 .5473 -.0094 .0141 .0349 .0100 -.0135 -.0089 -.1262 .4269 -.0683 -.1214 -.0324 -.0746 -.0609

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0773 -.0910 -.0464 -.0645 -.0708 -.0691 -.1291 -.1828 -.2093 -.1884 .2086 .3192 .1653 -.0409 -.0409

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0415 -.0973 -.0968 -.0828 -.0486 -.0661 -.0927 .0201 .0001 -.0361 -.0517

MACH (5) = .697 ALPHA (11) = 24.614 RN/L = 3.7212 Q(PSF) = 522.67 P = 1526.1 PO = 2115.6

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9103 .6748 -.1678 -.0972 -.0596 -.0917 -.1217 -.1086 -.2381 .5471 -.1854 -.2357 -.1280 -.1566 -.1539

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1747 -.1772 -.1651 -.1481 -.1092 -.1037 -.1673 -.2134 -.2483 -.2203 .2004 .2360 .1586 -.0901 -.0958

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (5) = .697 ALPHA (11) = 24.614

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0854 -.1618 -.1645 -.0726 -.0781 -.0838 -.1206 .0023 -.0260 -.1427 -.1520

MACH (6) = .900 ALPHA (1) = -2.197 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7595 -.0609 .1929 .2352 .3006 .2882 .2914 .3169 .5444 -.1445 .2309 .2206 .2237 .1902 .2091

TAP NO 16.0000 17.0000 18.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2146 .4671 .0799 .0926 .0264 .0200 -.0756 -.1142 -.1408 -.1166 .7196 .7202 .7064 .4199 .4157

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .4193 .0573 .0474 .0243 .0482 -.0642 -.0439 .1254 .1094 .1329 .1195

MACH (6) = .900 ALPHA (2) = -.071 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9087 .0025 .2210 .2577 .3048 .2958 .2978 .3176 .4710 -.0861 .2354 .2166 .2235 .1934 .2196

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .2186 .4051 .0972 .1099 .0435 .0372 -.0521 -.0931 -.1098 -.0838 .6694 .6586 .6574 .3831 .3702

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3730 .0802 .0654 .0747 .0947 -.0219 -.0087 .1372 .1328 .1546 .1370

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (6) = .901 ALPHA (3) = 1.994 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9505	.0701	.2322	.2738	.3133	.3025	.2999	.3169	.4225	-.0254	.2330	.2189	.2304	.1942	.2258
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2234	.3616	.1127	.1272	.0640	.0573	-.0278	-.0682	-.0793	-.0407	.5746	.6280	.6099	.3329	.3311
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3393	.1183	.0927	.1021	.1185	.0183	.0177	.1432	.1492	.1703	.1547				

MACH (6) = .899 ALPHA (4) = 4.070 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9004	.1321	.2360	.2862	.3110	.3022	.2986	.3122	.3692	.0246	.2334	.2096	.2310	.1914	.2211
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2185	.3144	.1249	.1378	.0729	.0676	-.0132	-.0526	-.0586	-.0221	.5196	.5697	.5527	.2792	.2880
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2976	.1213	.1032	.1099	.1240	.0297	.0293	.1662	.1508	.1762	.1651				

MACH (6) = .898 ALPHA (5) = 6.116 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9990	.1884	.2380	.2898	.3086	.2952	.2820	.3042	.3028	.0789	.2208	.1996	.2210	.1852	.2103
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2062	.2489	.1254	.1359	.0797	.0761	-.0042	-.0438	-.0448	-.0042	.4650	.4866	.5016	.2372	.2358

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (6) = .898 ALPHA (5) = 6.116

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2518 .1236 .1077 .1077 .1292 .0349 .0402 .1784 .1647 .1804 .1647

MACH (6) = .898 ALPHA (6) = 8.211 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1642 .2616 .2212 .2880 .2986 .2836 .2717 .2840 .2662 .1410 .2076 .1807 .2132 .1700 .2047

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1932 .2116 .1303 .1422 .0772 .0851 .0064 -.0341 -.0335 .0088 .4533 .4990 .4689 .2131 .2022

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2170 .1206 .1055 .1035 .1254 .0478 .0500 .1825 .1651 .1738 .1612

MACH (6) = .899 ALPHA (7) = 10.378 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.1968 .3349 .2054 .2781 .2944 .2684 .2488 .2629 .2185 .2081 .1924 .1584 .1984 .1560 .1897

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1770 .1750 .1229 .1405 .0832 .0852 .0095 -.0303 -.0236 .0196 .4563 .5002 .4407 .1845 .1766

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1774 .1084 .0948 .0956 .1233 .0559 .0563 .1770 .1645 .1663 .1516

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (6) = .896 ALPHA (8) = 12.383 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1854	.3961	.2053	.2629	.2719	.2398	.2329	.2402	.1663	.2690	.1673	.1299	.1823	.1380	.1701
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1485	.1291	.1167	.1289	.0787	.0765	.0061	-.0346	-.0198	.0196	.4103	.4926	.3889	.1480	.1484
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1472	.0922	.0833	.0818	.1129	.0554	.0477	.1712	.1584	.1502	.1374				

MACH (6) = .901 ALPHA (9) = 16.595 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1539	.5324	.1661	.2166	.2318	.1879	.1833	.1796	.0725	.4018	.1118	.0651	.1482	.0965	.1096
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0850	.0526	.0850	.0905	.0456	.0591	.0035	-.0382	-.0372	.0132	.3781	.4456	.3297	.0879	.0883
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0933	.0474	.0396	.0452	.0774	.0365	.0283	.1410	.1261	.1155	.0922				

MACH (6) = .903 ALPHA (10) = 20.837 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1088	.6644	.0805	.1562	.1754	.1173	.1059	.1059	-.0167	.5343	.0371	-.0145	.0737	.0347	.0287
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0026	-.0151	.0416	.0247	.0257	.0251	-.0211	-.0647	-.0553	-.0065	.3493	.4174	.3111	.0381	.0331

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (6) = .903 ALPHA (10) = 20.837

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0393 -.0111 -.0189 -.0030 .0405 .0087 .0004 .0893 .0855 .0379 .0195

MACH (6) = .898 ALPHA (11) = 24.897 RN/L = 3.9293 Q(PSF) = 708.54 P = 1250.4 PO = 2114.6

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0510 .7746 -.0298 .0520 .0981 .0209 .0224 .0021 -.1344 .6460 -.0520 -.1217 -.0016 -.0469 -.0867

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.1173 -.1092 -.0863 -.0793 -.0314 -.0257 -.0355 -.1100 -.1045 -.0540 .3452 .3206 .2866 -.0191 -.0229

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 -.0140 -.0797 -.0966 -.0270 -.0146 -.0304 -.0509 .0445 .0153 -.0882 -.0838

MACH (7) = .980 ALPHA (1) = -2.217 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .8689 .0220 .2640 .3095 .3496 .3593 .3605 .3853 .5955 -.0720 .3026 .2946 .2827 .2614 .2771

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .2942 .5322 .1543 .1705 .1089 .0998 .0144 -.0224 -.0438 -.0178 .7653 .7718 .7383 .4881 .4860

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .4870 .1310 .1310 .0974 .1245 .0000 .0330 .2055 .1897 .2127 .1987

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (7) = .979 ALPHA (2) = -.162 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9809	.0770	.2813	.3285	.3543	.3622	.3549	.3807	.5250	-.0248	.2927	.2964	.2763	.2624	.2779
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2910	.4688	.1654	.1794	.1167	.1126	.0311	-.0081	-.0178	.0126	.7187	.7161	.7032	.4410	.4355
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.4414	.1490	.1358	.1424	.1652	.0471	.0654	.2072	.2096	.2274	.2150				

MACH (7) = .977 ALPHA (3) = 1.995 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9755	.1483	.2957	.3434	.3629	.3640	.3580	.3807	.4772	.0378	.2927	.2912	.2804	.2640	.2800
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2912	.4226	.1816	.1991	.1308	.1314	.0520	.0091	.0111	.0426	.6448	.6769	.6686	.3895	.3897
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3999	.1775	.1600	.1650	.1825	.0773	.0851	.2152	.2180	.2353	.2256				

MACH (7) = .976 ALPHA (4) = 4.101 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9287	.2061	.2977	.3558	.3641	.3630	.3579	.3770	.4201	.0903	.2929	.2764	.2841	.2594	.2798
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.2841	.3700	.1870	.1995	.1395	.1397	.0650	.0271	.0278	.0648	.5856	.6233	.5980	.3487	.3472

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (7) = .976 ALPHA (4) = 4.101

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3511 .1836 .1688 .1707 .1864 .0891 .0934 .2326 .2208 .2438 .2321

MACH (7) = .972 ALPHA (5) = 6.085 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9749 .2498 .2947 .3483 .3596 .3491 .3365 .3613 .3585 .1305 .2777 .2612 .2727 .2444 .2657

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2691 .3098 .1817 .1973 .1406 .1423 .0694 .0303 .0401 .0782 .5138 .5359 .5520 .2960 .2984

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3095 .1780 .1632 .1598 .1849 .0909 .1005 .2329 .2220 .2380 .2266

MACH (7) = .972 ALPHA (6) = 8.333 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1656 .3285 .2939 .3580 .3456 .3463 .3309 .3471 .3159 .2054 .2698 .2454 .2720 .2424 .2580

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .2645 .2613 .1845 .2058 .1444 .1464 .0793 .0424 .0579 .1005 .4995 .5311 .5092 .2672 .2582

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2766 .1719 .1626 .1615 .1859 .1049 .1070 .2382 .2262 .2343 .2240

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP11)

MACH (7) = .973 ALPHA (7) = 10.287 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2322	.3920	.2776	.3467	.3629	.3329	.3168	.3312	.2782	.2674	.2597	.2263	.2618	.2301	.2515
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2447	.2353	.1823	.1975	.1493	.1521	.0863	.0464	.0678	.1122	.5158	.5660	.4965	.2443	.2351
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2364	.1647	.1524	.1539	.1825	.1133	.1144	.2345	.2247	.2274	.2163				

MACH (7) = .971 ALPHA (8) = 12.444 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.2304	.4595	.2824	.3402	.3329	.3139	.2960	.3035	.2253	.3229	.2357	.2021	.2455	.2072	.2274
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.2190	.1888	.1747	.1800	.1471	.1492	.0798	.0438	.0691	.1128	.4558	.5315	.4391	.2065	.2047
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2026	.1496	.1397	.1410	.1727	.1105	.1088	.2261	.2175	.2089	.1973				

MACH (7) = .973 ALPHA (9) = 16.726 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.1957	.5920	.2354	.2886	.2939	.2600	.2634	.2442	.1340	.4572	.1841	.1476	.2156	.1697	.1744
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1517	.1113	.1480	.1431	.1135	.1201	.0725	.0315	.0543	.1060	.4464	.4898	.3847	.1461	.1419

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP11)

MACH (7) = .973 ALPHA (9) = 16.726

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1481 .1013 .0962 .1002 .1357 .0906 .0829 .1938 .1803 .1711 .1509

MACH (7) = .965 ALPHA (10) = 20.787 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1432 .7080 .1576 .2237 .2392 .1858 .1720 .1657 .0347 .5688 .1162 .0661 .1417 .1062 .0802

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0563 .0374 .0983 .0881 .0766 .0765 .0393 -.0046 .0223 .0734 .4252 .4696 .3746 .0879 .0813

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0866 .0384 .0293 .0499 .0896 .0508 .0448 .1328 .1313 .0817 .0698

MACH (7) = .959 ALPHA (11) = 25.009 RN/L = 3.9059 Q(PSF) = 763.39 P = 1151.8 PO = 2113.4

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0852 .8150 .0404 .1316 .1592 .0955 .0904 .0696 -.1062 .6876 .0158 -.0380 .0696 .0284 -.0370

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0564 -.0475 -.0329 -.0232 .0092 .0164 -.0188 -.0570 -.0390 .0251 .4215 .3939 .3245 .0255 .0163

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0320 -.0395 -.0546 .0144 .0350 -.0030 -.0119 .0658 .0467 -.0667 -.0781

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP12) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPFGAP = .010
PHI-N = .000

MACH (1) = .302 ALPHA (1) = -2.167 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .6502 -.1757 .0692 .0970 .1491 .1624 .1591 .1779 .3875 -.2035 .0987 .0876 .0920 .0675 .0809

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0887 .3376 -.0151 -.0018 -.0587 -.0609 -.1279 -.1625 -.1793 -.1636 .5545 .5600 .5823 .3099 .3132

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3077 -.0308 -.0306 -.0483 -.0361 -.1149 -.1049 .0415 .0326 .0358 .0180

MACH (1) = .302 ALPHA (2) = -.091 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8239 -.1338 .1013 .1136 .1471 .1538 .1538 .1716 .3089 -.1627 .1006 .0883 .0917 .0671 .0816

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0928 .2846 -.0020 .0125 -.0444 -.0489 -.1135 -.1526 -.1626 -.1425 .5180 .4958 .5114 .2475 .2453

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2520 -.0020 -.0192 -.0158 -.0114 -.1029 -.0906 .0511 .0433 .0497 .0308

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP12)

MACH (1) = .302 ALPHA (3) = 1.974 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8438	-.0388	.1229	.1396	.1665	.1710	.1743	.1777	.2862	-.1045	.1155	.1054	.1032	.0775	.1054
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1088	.2472	.0150	.0206	-.0364	-.0330	-.1011	-.1379	-.1558	-.1379	.4331	.4554	.4732	.2246	.2224
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2291	.0284	.0088	.0088	.0077	-.0572	-.0650	.0547	.0535	.0681	.0514				

MACH (1) = .303 ALPHA (4) = 3.959 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8438	.0156	.1358	.1536	.1648	.1725	.1648	.1781	.2381	-.0619	.1174	.1007	.1085	.0829	.1040
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1029	.1962	.0274	.0385	-.0181	-.0203	-.0880	-.1269	-.1446	-.1257	.4109	.3998	.4308	.1859	.1814
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1937	.0397	.0224	.0191	.0269	-.0343	-.0521	.0847	.0602	.0853	.0554				

MACH (1) = .303 ALPHA (5) = 5.964 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8846	.0665	.1308	.1551	.1595	.1628	.1595	.1750	.1876	-.0172	.0957	.0868	.1078	.0769	.0901
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0968	.1454	.0272	.0382	-.0092	-.0148	-.0832	-.1285	-.1362	-.1197	.3803	.3450	.3847	.1496	.1374

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP12)

MACH (1) = .303 ALPHA (5) = 5.964

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1518 .0360 .0237 .0115 .0170 -.0349 -.0437 .0800 .0723 .0830 .0665

MACH (1) = .304 ALPHA (6) = 8.019 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9873 .1352 .1348 .1612 .1623 .1689 .1568 .1689 .1385 .0520 .0942 .0810 .0975 .0799 .0920

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1052 .1161 .0414 .0502 .0008 -.0036 -.0651 -.1101 -.1277 -.1090 .3838 .3455 .3532 .1238 .1183

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1205 .0349 .0294 .0184 .0250 -.0146 -.0201 .1041 .0777 .0805 .0695

MACH (1) = .303 ALPHA (7) = 10.014 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0032 .2013 .1222 .1421 .1488 .1377 .1322 .1444 .1007 .1040 .0704 .0527 .0715 .0505 .0682

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0693 .0749 .0238 .0372 -.0128 -.0161 -.0904 -.1314 -.1414 -.1248 .3938 .3385 .3661 .0944 .0778

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0889 .0327 .0123 -.0032 .0245 -.0221 -.0298 .0933 .0623 .0741 .0520

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP12)

MACH (1) = .302 ALPHA (8) = 12.059 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9919 .2579 .1106 .1229 .1296 .1106 .1251 .1106 .0600 .1445 .0495 .0194 .0640 .0227 .0573

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0517 .0328 .0250 .0305 -.0196 -.0152 -.0943 -.1356 -.1490 -.1323 .2857 .3335 .2813 .0694 .0616

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0560 .0116 .0036 -.0132 .0114 -.0199 -.0332 .0917 .0582 .0744 .0399

MACH (1) = .302 ALPHA (9) = 16.190 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9473 .3748 .0501 .0791 .0803 .0657 .0635 .0680 -.0306 .2724 -.0134 -.0457 .0224 -.0134 .0045

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0067 -.0323 -.0145 -.0167 -.0435 -.0413 -.0960 -.1407 -.1641 -.1474 .2746 .2846 .3002 .0076 .0076

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0088 -.0301 -.0370 -.0214 -.0147 -.0449 -.0549 .0590 .0322 .0251 .0051

MACH (1) = .301 ALPHA (10) = 20.179 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8664 .4941 -.0477 -.0084 .0005 -.0252 -.0409 -.0320 -.1185 .3812 -.1051 -.1533 -.0524 -.0871 -.0782

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0748 -.1118 -.0681 -.0602 -.0681 -.0681 -.1230 -.1724 -.1970 -.1791 .2840 .1990 .2638 -.0353 -.0432

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP12)

MACH (1) = .301 ALPHA (10) = 20.179

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0387 -.0871 -.0925 -.0824 -.0443 -.0678 -.0903 .0252 -.0017 -.0358 -.0470

MACH (1) = .302 ALPHA (11) = 24.280 RN/L = 1.9576 Q(PSF) = 127.52 P = 1992.8 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7860 .6157 -.1489 -.1076 -.0696 -.1087 -.1232 -.1277 -.1779 .4910 -.2161 -.2574 -.1156 -.1592 -.1335

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1580 -.1647 -.1848 -.1380 -.1056 -.1078 -.1603 -.2094 -.2340 -.2139 .2573 .1927 .2473 -.0707 -.0830

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0719 -.1424 -.1600 -.1120 -.0942 -.0830 -.1065 .0208 -.0172 -.1111 -.1234

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PARAMETRIC DATA

BETA = -2.000 TPSPGAP = .010
 PHI-N = .000

MACH (1) = .303 ALPHA (1) = -2.238 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7473	-.1732	.0956	.0400	.1846	.1023	.1879	.1168	.3873	-.1997	.1422	.0388	.1333	.0122	.1044

TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0355	.3510	.0200	-.0345	-.0200	-.0878	-.0945	-.2000	-.1411	-.1911	.6022	.5745	.5745	.3270	.3125

TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	
SET	.000	.2969	.0200	-.0645	.0078	-.0812	-.0678	-.1234	.0979	-.0067	.0982	-.0159

MACH (1) = .301 ALPHA (2) = -.263 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8531	-.1299	.1302	.0607	.1773	.0988	.1818	.1134	.3360	-.1790	.1355	.0388	.1220	.0144	.1198

TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0357	.3035	.0312	-.0371	-.0214	-.0875	-.1043	-.2041	-.1469	-.1906	.5314	.5471	.5370	.2883	.2592

TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000	
SET	.000	.2513	.0447	-.0548	.0293	-.0503	-.0694	-.1232	.0966	-.0010	.1047	-.0092

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (1) = .302 ALPHA (3) = 1.772 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.8286	-.0790	.1573	.0737	.1919	.1038	.1975	.1216	.2776	-.1346	.1428	.0359	.1339	.0069	.1205
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0414	.2498	.0336	-.0288	-.0187	-.0789	-.0934	-.1970	-.1435	-.1803	.4909	.5020	.4476	.2365	.2220
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2109	.0726	-.0424	.0469	-.0390	-.0312	-.1060	.1004	.0045	.1132	.0054				

MACH (1) = .300 ALPHA (4) = 3.756 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9375	-.0144	.1641	.0908	.2001	.1145	.1855	.1134	.2202	-.0716	.1393	.0391	.1302	.0154	.1269
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0447	.2057	.0470	-.0161	-.0037	-.0723	-.0780	-.1793	-.1320	-.1714	.4223	.4369	.3572	.1934	.1843
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1776	.0729	-.0309	.0435	-.0298	-.0298	-.0951	.1134	.0097	.1158	.0137				

MACH (1) = .302 ALPHA (5) = 5.802 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0008	.0536	.1855	.0916	.2022	.1062	.2022	.1095	.1705	-.0132	.1426	.0232	.1304	.0043	.1315
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0411	.1605	.0444	-.0158	.0032	-.0582	-.0727	-.1731	-.1252	-.1664	.4420	.4376	.3463	.1587	.1453

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (1) = .302 ALPHA (5) = 5.802

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1319 .0656 -.0200 .0492 -.0189 -.0022 -.0815 .1218 .0302 .1159 .0180

MACH (1) = .303 ALPHA (6) = 7.877 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0002 .1294 .1922 .0794 .2010 .1015 .1944 .1049 .1283 .0513 .1277 .0018 .1222 .0062 .1310

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0471 .1321 .0637 -.0037 .0151 -.0490 -.0512 -.1583 -.1075 -.1506 .4355 .3914 .3507 .1358 .1281

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1159 .0835 -.0156 .0606 -.0123 .0231 -.0676 .1325 .0452 .1195 .0292

MACH (1) = .302 ALPHA (7) = 9.912 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0019 .1878 .1745 .0751 .1845 .0784 .1823 .0829 .0844 .1000 .1038 -.0178 .1183 -.0201 .1116

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0156 .0815 .0569 -.0145 .0123 -.0580 -.0691 -.1818 -.1193 -.1595 .3769 .3647 .3602 .1030 .0885

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0896 .0647 -.0243 .0371 -.0154 .0114 -.0723 .1220 .0315 .1089 .0166

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (1) = .301 ALPHA (8) = 11.897 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9950	.2394	.1648	.0370	.1480	.0595	.1580	.0606	.0274	.1479	.0869	-.0497	.0903	-.0362	.0836
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0015	.0365	.0511	-.0206	-.0004	-.0721	-.0743	-.1896	-.1336	-.1683	.3834	.3745	.3053	.0606	.0550
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0583	.0466	-.0391	.0326	-.0279	.0158	-.0795	.1110	.0270	.0943	-.0017				

MACH (1) = .302 ALPHA (9) = 15.957 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9452	.3734	.1119	.0059	.1265	.0036	.1019	-.0075	-.0582	.2633	.0253	-.1187	.0543	-.0953	.0398
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0484	-.0395	.0253	-.0618	-.0294	-.0819	-.0718	-.1935	-.1678	-.1924	.2411	.2388	.2366	.0036	.0048
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0103	.0096	-.0734	.0070	-.0511	-.0053	-.0902	.0863	.0059	.0542	-.0270				

MACH (1) = .303 ALPHA (10) = 20.078 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8659	.4895	.0284	-.0827	.0484	-.0883	-.0171	-.0772	-.1472	.3865	-.0582	-.2203	-.0105	-.1637	-.0327
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.1204	-.1104	-.0449	-.1115	-.0427	-.1137	-.0993	-.2192	-.1859	-.2159	.1894	.1927	.2049	-.0583	-.0438

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (1) = .303 ALPHA (10) = 20.078

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0416 -.0605 -.1183 -.0394 -.0816 -.0338 -.1149 .0540 -.0227 .0012 -.0630

MACH (1) = .302 ALPHA (11) = 24.158 RN/L = 2.0724 Q(PSF) = 127.16 P = 1992.9 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7628 .6070 -.0863 -.1823 -.0607 -.1890 -.1131 -.1634 -.2050 .4925 -.1673 -.3335 -.0881 -.2242 -.1104

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.2131 -.1718 -.1617 -.2175 -.0781 -.1495 -.1405 -.2566 -.2242 -.2443 .1532 .1999 .2500 -.0997 -.0830

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0752 -.1182 -.1901 -.0339 -.1176 -.0395 -.1321 .0364 -.0294 -.1082 -.1405

MACH (2) = .400 ALPHA (1) = -2.268 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7371 -.1968 .0907 .0281 .1727 .0941 .1674 .1001 .3931 -.2194 .1251 .0332 .1118 -.0068 .0991

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0318 .3550 -.0008 -.0488 -.0435 -.1121 -.1274 -.2427 -.1654 -.2114 .5744 .5664 .5830 .3187 .3094

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2941 .0138 -.0886 -.0179 -.1079 -.1053 -.1573 .0747 -.0306 .0842 -.0381

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (2) = .401 ALPHA (2) = -.213 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8661 -.1328 .1326 .0636 .1849 .0988 .1763 .1186 .3402 -.1771 .1381 .0349 .1183 .0071 .1110

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0389 .3036 .0223 -.0379 -.0300 -.0882 -.1061 -.2193 -.1511 -.1988 .5362 .5461 .5329 .2797 .2638

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2531 .0329 -.0656 .0265 -.0563 -.0669 -.1305 .0968 .0113 .1014 -.0114

MACH (2) = .401 ALPHA (3) = 1.853 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8468 -.0740 .1582 .0747 .2019 .1118 .1940 .1184 .2675 -.1275 .1445 .0418 .1312 .0173 .1186

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0424 .2512 .0411 -.0238 -.0172 -.0821 -.0967 -.2007 -.1457 -.1848 .4934 .4802 .4115 .2344 .2225

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2152 .0550 -.0499 .0442 -.0333 -.0426 -.1128 .0986 .0104 .1169 .0000

MACH (2) = .401 ALPHA (4) = 3.898 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9471 .0007 .1582 .0885 .1981 .1098 .1888 .1191 .2307 -.0780 .1428 .0374 .1335 .0062 .1262

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0433 .1938 .0513 -.0130 -.0057 -.0687 -.0799 -.1940 -.1396 -.1847 .4270 .4435 .3483 .1967 .1781

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (2) = .401 ALPHA (4) = 3.898

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1689 .0718 -.0303 .0507 -.0309 -.0269 -.0946 .1177 .0142 .1170 .0119

MACH (2) = .400 ALPHA (5) = 5.923 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0089 .0449 .1647 .0774 .2047 .1014 .1721 .1034 .1701 -.0141 .1306 .0114 .1192 -.0086 .1252

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0427 .1585 .0433 -.0173 .0014 -.0632 -.0812 -.1837 -.1264 -.1671 .4220 .4413 .3443 .1607 .1394

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1287 .0713 -.0339 .0441 -.0186 -.0006 -.0886 .1341 .0321 .1146 .0104

MACH (2) = .401 ALPHA (6) = 7.897 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0217 .1265 .1694 .0718 .1993 .0964 .1747 .1017 .1232 .0437 .1260 .0011 .1160 -.0148 .1167

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0350 .1240 .0589 -.0141 .0051 -.0553 -.0692 -.1821 -.1310 -.1688 .4555 .4152 .3602 .1302 .1183

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1083 .0629 -.0265 .0459 -.0146 .0173 -.0737 .1362 .0406 .1152 .0232

ARC 150-1-14(0A220) TPS+ADP+FTP \

(XNLP13)

MACH (2) = .400 ALPHA (7) = 9.912 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0208 .1763 .1526 .0552 .1912 .0752 .1345 .0825 .0820 .0933 .1156 -.0190 .1089 -.0277 .1063

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0163 .0716 .0490 -.0224 -.0030 -.0630 -.0750 -.1943 -.1310 -.1683 .4128 .3717 .3444 .0939 .0859

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0739 .0623 -.0361 .0405 -.0235 .0105 -.0755 .1245 .0405 .0946 .0169

MACH (2) = .401 ALPHA (8) = 11.958 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0104 .2409 .1695 .0379 .1649 .0639 .1356 .0659 .0329 .1442 .0917 -.0524 .0937 -.0405 .0831

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0132 .0406 .0585 -.0232 .0027 -.0677 -.0757 -.1959 -.1301 -.1667 .3985 .3859 .3150 .0632 .0552

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0579 .0525 -.0412 .0406 -.0139 .0193 -.0770 .1157 .0459 .0958 .0084

MACH (2) = .400 ALPHA (9) = 16.048 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9637 .3743 .1062 -.0206 .1335 -.0106 .0895 -.0026 -.0624 .2755 .0234 -.1371 .0440 -.0912 .0340

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0579 -.0339 .0240 -.0665 -.0272 -.0898 -.0838 -.1984 -.1644 -.1924 .2170 .2940 .2436 -.0012 -.0019

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (2) = .400 ALPHA (9) = 16.048

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0068 -.0006 -.0760 .0054 -.0493 -.0093 -.0933 .0861 .0141 .0578 -.0219

MACH (2) = .399 ALPHA (10) = 20.098 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8787 .4950 .0291 -.0960 .0518 -.0813 -.0084 -.0826 -.1545 .3724 -.0665 -.2182 -.0084 -.1647 -.0411

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1300 -.1200 -.0445 -.1213 -.0518 -.1186 -.1133 -.2295 -.1941 -.2175 .1419 .1879 .1899 -.0659 -.0565

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0478 -.0658 -.1361 -.0425 -.0799 -.0338 -.1194 .0518 -.0224 -.0106 -.0639

MACH (2) = .397 ALPHA (11) = 24.189 RN/L = 2.6185 Q(PSF) = 212.78 P = 1899.5 PO = 2120.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7902 .6134 -.1303 -.2120 -.0547 -.1735 -.1000 -.1816 -.2152 .4797 -.1682 -.3071 -.0758 -.2262 -.1170

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1979 -.1729 -.1473 -.2053 -.0806 -.1500 -.1406 -.2566 -.2262 -.2464 .1531 .1631 .2041 -.1087 -.0817

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0777 -.1203 -.1965 -.0487 -.1108 -.0338 -.1337 .0506 -.0352 -.1104 -.1440

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (3) = .501 ALPHA (1) = -2.258 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7485 -.1959 .1021 .0337 .1786 .1012 .1759 .1166 .4011 -.2252 .1395 .0278 .1223 -.0025 .1056

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0405 .3585 .0065 -.0460 -.0455 -.1075 -.1233 -.2387 -.1713 -.2233 .5843 .5824 .5752 .3203 .3140

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3009 .0165 -.0831 -.0048 -.1148 -.0913 -.1488 .0840 -.0215 .0902 -.0258

MACH (3) = .501 ALPHA (2) = -.263 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8559 -.1294 .1387 .0529 .1841 .1124 .1873 .1219 .3486 -.1813 .1388 .0395 .1288 .0050 .1166

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0367 .3180 .0227 -.0368 -.0227 -.0930 -.1148 -.2318 -.1701 -.2046 .5489 .5615 .5407 .2817 .2667

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2590 .0304 -.0715 .0234 -.0470 -.0661 -.1437 .0983 -.0111 .1040 -.0132

MACH (3) = .501 ALPHA (3) = 1.812 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8598 -.0651 .1573 .0792 .2079 .1167 .2011 .1297 .2808 -.1285 .1506 .0428 .1349 .0130 .1299

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0527 .2630 .0401 -.0159 -.0114 -.0759 -.0971 -.2095 -.1445 -.1829 .5085 .5089 .4581 .2417 .2350

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (3) = .501 ALPHA (3) = 1.812

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2232 .0672 -.0419 .0557 -.0301 -.0387 -.1173 .1067 .0087 .1207 .0051

MACH (3) = .500 ALPHA (4) = 3.837 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9675 -.0100 .1695 .0878 .2094 .1105 .1872 .1232 .2268 -.0809 .1457 .0256 .1326 .0097 .1285

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0456 .2029 .0524 -.0138 -.0043 -.0696 -.0800 -.1956 -.1403 -.1757 .4279 .4564 .3741 .1985 .1844

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1726 .0750 -.0324 .0551 -.0206 -.0238 -.1005 .1218 .0147 .1166 .0126

MACH (3) = .500 ALPHA (5) = 5.883 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0388 .0560 .1713 .0869 .2067 .1055 .1844 .1186 .1799 -.0263 .1408 .0156 .1344 .0020 .1285

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0442 .1634 .0610 -.0120 .0038 -.0660 -.0773 -.1870 -.1276 -.1725 .4312 .4398 .3485 .1631 .1549

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1345 .0723 -.0329 .0524 -.0166 .0011 -.0882 .1295 .0334 .1189 .0190

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (3) =	.500	ALPHA (6) =	7.897	RN/L =	3.0876	Q(PSF) =	315.17	P =	1783.3	PO =	2118.8					
SECTION (1)FORE BODY																
DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0452	.1291	.1721	.0776	.1939	.0908	.1780	.1090	.1295	.0490	.1243	.0018	.1261	-.0118	.1152
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0417	.1179	.0653	-.0200	.0014	-.0662	-.0789	-.1964	-.1488	-.1896	.4497	.4252	.3674	.1262	.1180
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1072	.0558	-.0359	.0522	-.0286	.0263	-.0903	.1271	.0254	.1132	.0205				
MACH (3) =	.505	ALPHA (7) =	9.892	RN/L =	3.0876	Q(PSF) =	315.17	P =	1783.3	PO =	2118.8					
SECTION (1)FORE BODY																
DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0504	.2015	.1593	.0599	.1923	.0862	.1602	.0986	.0882	.1033	.1169	-.0164	.1173	-.0275	.1071
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0180	.0861	.0621	-.0181	.0086	-.0551	-.0636	-.1861	-.1295	-.1688	.4442	.3655	.3473	.0982	.0826
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.0879	.0594	-.0302	.0523	-.0119	.0518	-.0565	.1352	.0434	.1259	.0335				
MACH (3) =	.505	ALPHA (8) =	12.028	RN/L =	3.0876	Q(PSF) =	315.17	P =	1783.3	PO =	2118.8					
SECTION (1)FORE BODY																
DEPENDENT VARIABLE CP																
TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0345	.2583	.1603	.0541	.1835	.0621	.1331	.0577	.0428	.1543	.0973	-.0462	.1008	-.0471	.0866
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.0008	.0389	.0639	-.0186	.0077	-.0569	-.0765	-.1937	-.1327	-.1701	.3671	.3974	.3147	.0661	.0532

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (3) = .505 ALPHA (8) = 12.028

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0577 .0536 -.0405 .0492 -.0066 .0532 -.0543 .1246 .0363 .1192 .0273

MACH (3) = .505 ALPHA (9) = 16.149 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9865 .3913 .1159 -.0090 .1400 .0048 .0887 .0146 -.0503 .2820 .0273 -.1175 .0603 -.0885 .0367

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0502 -.0248 .0318 -.0587 -.0279 -.0841 -.0787 -.1999 -.1639 -.1928 .2278 .3326 .2687 -.0001 .0030

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0124 .0099 -.0750 .0267 -.0153 .0409 -.0460 .0860 .0151 .0741 .0075

MACH (3) = .504 ALPHA (10) = 20.149 RN/L = 3.0876 Q(PSF) = 315.17 P = 1783.3 PO = 2118.8

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9117 .5047 .0425 -.0872 .0684 -.0854 -.0027 -.0725 -.1423 .3943 -.0500 -.2162 -.0027 -.1577 -.0416

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1233 -.1086 -.0402 -.1059 -.0505 -.1139 -.1010 -.2256 -.1907 -.2158 .1445 .2620 .1850 -.0555 -.0497

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0380 -.0518 -.1306 .0013 -.0658 .0223 -.0689 .0554 -.0175 .0140 -.0461

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (3) = .503 ALPHA (11) = 24.249 RN/L = 3.0876 Q(PSF) = 315.17 P = 1793.3 PO = 2118.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8170 .6228 -.1406 -.2129 -.0346 -.1774 -.1015 -.1797 -.2311 .4979 -.1543 -.3277 -.0775 -.2356 -.1403

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.2194 -.1884 -.1570 -.2163 -.0851 -.1583 -.1507 -.2621 -.2378 -.2594 .1054 .1820 .1677 -.1208 -.0952

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0916 -.1147 -.2022 -.0260 -.1204 -.0242 -.1415 .0396 -.0431 -.1107 -.1586

MACH (4) = .621 ALPHA (1) = -2.349 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7808 -.1821 .1099 .0524 .1818 .1047 .1908 .1327 .4147 -.2228 .1442 .0450 .1336 .0058 .1307

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0492 .3812 .0132 -.0430 -.0369 -.1159 -.1271 -.2408 -.1727 -.2260 .6128 .6077 .6006 .3308 .3295

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3144 .0251 -.0809 .0055 -.1146 -.0928 -.1461 .0993 -.0160 .1020 -.0285

MACH (4) = .619 ALPHA (2) = -.314 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8679 -.1115 .1542 .0769 .2061 .1233 .2045 .1432 .3639 -.1680 .1605 .0526 .1473 .0166 .1370

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0610 .3260 .0314 -.0214 -.0227 -.0936 -.1109 -.2304 -.1618 -.2072 .5803 .5918 .5591 .2969 .2889

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (4) = .619 ALPHA (2) = -.314

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2795 .0484 -.0614 .0453 -.0433 -.0578 -.1365 .1062 .0031 .1235 -.0027

MACH (4) = .620 ALPHA (3) = 1.802 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8501 -.0572 .1799 .1037 .2202 .1256 .2147 .1436 .3061 -.1271 .1601 .0498 .1498 .0163 .1453

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0594 .2701 .0517 -.0126 -.0120 -.0795 -.0975 -.2162 -.1493 -.2008 .5157 .5497 .4734 .2539 .2433

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2308 .0674 -.0411 .0593 -.0250 -.0366 -.1071 .1149 .0117 .1204 .0127

MACH (4) = .619 ALPHA (4) = 3.716 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9851 .0052 .1804 .1072 .2158 .1275 .2103 .1430 .2477 -.0837 .1579 .0468 .1515 .0159 .1476

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0516 .2184 .0523 -.0150 .0053 -.0681 -.0788 -.1976 -.1415 -.1856 .4691 .4788 .3809 .2116 .1961

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1807 .0842 -.0332 .0605 -.0132 -.0164 -.0950 .1227 .0200 .1319 .0193

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (4) = .619 ALPHA (5) = 5.802 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0334 .0654 .1810 .1154 .2366 .1260 .1983 .1395 .1981 -.0143 .1626 .0363 .1562 .0148 .1462

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0543 .1787 .0710 .0032 .0167 -.0546 -.0710 -.1890 -.1302 -.1745 .4723 .4714 .3727 .1765 .1505

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1466 .0842 -.0152 .0630 .0003 .0067 -.0769 .1344 .0337 .1308 .0225

MACH (4) = .622 ALPHA (6) = 7.837 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0795 .1425 .1826 .1170 .2194 .1193 .1845 .1317 .1536 .0530 .1446 .0248 .1424 .0072 .1472

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0507 .1421 .0813 .0098 .0216 -.0443 -.0612 -.1686 -.1197 -.1612 .4505 .4419 .3724 .1509 .1317

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1199 .0919 -.0179 .0652 -.0032 .0301 -.0700 .1445 .0489 .1326 .0409

MACH (4) = .620 ALPHA (7) = 9.943 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0853 .2060 .1720 .0920 .2034 .0865 .1681 .0981 .0963 .1024 .1234 -.0169 .1227 -.0234 .1208

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0296 .0912 .0611 -.0128 .0094 -.0587 -.0651 -.2006 -.1332 -.1743 .4326 .4060 .3497 .1077 .0923

ARC 150-1-14(0A270) TPS+ADP+FTP

(XNLP13)

MACH (4) = .620 , ALPHA (7) = 9.943

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0901 .0697 -.0352 .0525 -.0165 .0169 -.0753 .1296 .0361 .1091 .0198

MACH (4) = .622 ALPHA (8) = 12.099 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0738 .2758 .1914 .0798 .1997 .0722 .1534 .0786 .0554 .1672 .1073 -.0348 .1188 -.0320 .1093

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .0125 .0591 .0684 -.0112 .0220 -.0521 -.0550 -.1949 -.1284 -.1639 .3802 .4108 .3414 .0760 .0619

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0719 .0575 -.0439 .0450 -.0109 .0271 -.0630 .1307 .0408 .1057 .0217

MACH (4) = .620 ALPHA (9) = 16.038 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 PO = 2125.1

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 1.0320 .3942 .1191 .0204 .1525 .0056 .1271 .0133 -.0322 .2818 .0365 -.1152 .0751 -.0895 .0628

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 -.0562 -.0259 .0416 -.0593 -.0169 -.0853 -.0696 -.2049 -.1634 -.1920 .2318 .3689 .2680 .0040 -.0041

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0085 .0069 -.0768 .0130 -.0481 .0082 -.1002 .0979 .0114 .0665 -.0219

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (4) = .619 ALPHA (10) = 20.220 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 P0 = 2125.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9593	.5285	.0059	-.0750	.0671	-.0731	.0017	-.0808	-.1442	.4036	-.0379	-.2114	.0079	-.1554	-.0202
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.1319	-.1090	-.0198	-.1200	-.0395	-.1209	-.0965	-.2307	-.1918	-.2223	.1258	.2992	.2013	-.0705	-.0515
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.0495	-.0552	-.1349	-.0344	-.0856	-.1115	-.1201	.0539	-.0260	-.0058	-.0755				

MACH (4) = .619 ALPHA (11) = 24.361 RN/L = 3.5217 Q(PSF) = 440.98 P = 1640.2 P0 = 2125.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8695	.6425	-.0845	-.1776	-.0236	-.1711	-.0838	-.1772	-.2354	.5228	-.1377	-.3167	-.0675	-.2394	-.1245
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.2188	-.1882	-.1419	-.2159	-.0817	-.1573	-.1383	-.2703	-.2397	-.2558	.0795	.2095	.1832	-.1251	-.1032
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.0919	-.1216	-.2059	-.0342	-.1231	-.0410	-.1476	.0231	-.0420	-.1292	-.1568				

MACH (5) = .698 ALPHA (1) = -2.359 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 P0 = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7958	-.1666	.1344	.0775	.2186	.1330	.2151	.1536	.4427	-.2181	.1716	.0698	.1527	.0257	.1532
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0617	.3973	.0309	-.0276	-.0208	-.1058	-.1215	-.2414	-.1749	-.2270	.6364	.6512	.6178	.3523	.3396

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (5) = .698 ALPHA (1) = -2.359

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3282 .0439 -.0660 .0090 -.0947 -.0925 -.1537 .1038 -.0097 .1155 -.0183

MACH (5) = .698 ALPHA (2) = -.213 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8670 -.1058 .1725 .1051 .2345 .1378 .2204 .1562 .3858 -.1594 .1730 .0678 .1560 .0307 .1644

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0727 .3460 .0488 -.0139 -.0061 -.0829 -.1081 -.2333 -.1693 -.2197 .6083 .6116 .5895 .3117 .2944

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2895 .0456 -.0591 .0522 -.0298 -.0458 -.1289 .1107 .0005 .1197 .0069

MACH (5) = .700 ALPHA (3) = 1.752 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8679 -.0402 .1915 .1191 .2393 .1478 .2355 .1656 .3344 -.1134 .1744 .0699 .1644 .0348 .1701

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0783 .2967 .0678 -.0038 .0051 -.0661 -.0783 -.2036 -.1377 -.1965 .5617 .5593 .5022 .2693 .2588

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2482 .0875 -.0251 .0719 -.0116 -.0156 -.0921 .1329 .0233 .1411 .0234

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (5) = .698 ALPHA (4) = 3.898 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9880 .0191 .1987 .1298 .2427 .1455 .2237 .1561 .2556 -.0564 .1735 .0550 .1632 .0330 .1670

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0726 .2310 .0718 .0019 .0168 -.0578 -.0692 -.1880 -.1310 -.1828 .4762 .4954 .4008 .2248 .2063

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1360 .0932 -.0165 .0752 -.0032 -.0034 -.0840 .1374 .0234 .1402 .0382

MACH (5) = .702 ALPHA (5) = 5.812 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0458 .0921 .2076 .1315 .2474 .1490 .2179 .1571 .2202 .0034 .1739 .0524 .1672 .0317 .1750

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0804 .2005 .0911 .0231 .0331 -.0336 -.0524 -.1773 -.1228 -.1651 .4792 .4883 .3789 .1915 .1799

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1662 .1011 -.0018 .0848 .0151 .0294 -.0604 .1525 .0452 .1514 .0458

MACH (5) = .701 ALPHA (6) = 7.958 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.1013 .1643 .1973 .1205 .2399 .1335 .2095 .1407 .1641 .0762 .1579 .0313 .1606 .0119 .1627

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0649 .1538 .0913 .0224 .0358 -.0347 -.0512 -.1594 -.1113 -.1586 .4716 .4738 .3819 .1591 .1362

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (5) = .701 ALPHA (6) = 7.958

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1399 .0943 -.0037 .0774 .0084 .0343 -.0662 .1623 .0575 .1407 .0488

MACH (5) = .699 ALPHA (7) = 9.933 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.1071 .2297 .1905 .1118 .2349 .1185 .1927 .1269 .1239 .1274 .1485 .0135 .1545 -.0006 .1572

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0471 .1090 .0901 .0127 .0373 -.0425 -.0493 -.1871 -.1180 -.1650 .4433 .4182 .3794 .1231 .1112

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .1088 .0803 -.0181 .0744 .0006 .0322 -.0625 .1459 .0474 .1220 .0355

MACH (5) = .699 ALPHA (8) = 12.059 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0964 .2938 .1967 .0954 .2185 .0927 .1721 .0925 .0712 .1878 .1207 -.0188 .1331 -.0256 .1247

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0173 .0586 .0802 .0009 .0322 -.0420 -.0534 -.1898 -.1192 -.1632 .3963 .4342 .3484 .0906 .0701

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0690 .0692 -.0358 .0541 -.0053 .0250 -.0614 .1389 .0468 .1105 .0199

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP13)

MACH (5) = .699 ALPHA (9) = 16.170 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0541 .4191 .1408 .0360 .1737 .0271 .1338 .0293 -.0240 .3096 .0627 -.0976 .0835 -.0706 .0705

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0380 -.0121 .0479 -.0436 .0025 -.0698 -.0512 -.1822 -.1452 -.1762 .2408 .3920 .2924 .0101 .0155

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0188 .0236 -.0698 .0161 -.0342 .0023 -.0874 .1078 .1217 .0704 -.0100

MACH (5) = .702 ALPHA (10) = 20.230 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9890 .5501 .0031 -.0479 .0887 -.0570 .0190 -.0621 -.1259 .4196 -.0181 -.1956 .0229 -.1454 -.0085

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1117 -.0889 -.0004 -.0895 -.0163 -.0887 -.0747 -.1978 -.1611 -.1859 .1495 .3127 .2255 -.0589 -.0409

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0301 -.0313 -.1179 -.0200 -.0715 -.0100 -.1028 .0697 -.0025 .0006 -.0561

MACH (5) = .701 ALPHA (11) = 24.432 RN/L = 3.7423 Q(PSF) = 525.19 P = 1532.2 PO = 2125.0

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9053 .6725 -.0869 -.1711 .0050 -.1668 -.0720 -.1649 -.2265 .5526 -.1240 -.3108 -.0627 -.2314 -.1079

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.2257 -.1807 -.1278 -.2159 -.0708 -.1487 -.1292 -.2512 -.2216 -.2295 .0913 .2117 .1980 -.1176 -.0982

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP13)

MACH (5) = .701 ALPHA (11) = 24.432

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0852 -.1025 -.2025 -.0298 -.1176 -.0537 -.1433 .0322 -.0343 -.1243 -.1589

PARAMETRIC DATA

BETA = 2.000 TPSPGAP = .010
PHI-N = .000

MACH (1) = .303 ALPHA (1) = -2.389 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 FO = 2130.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7127 -.1936 .0100 .1305 .0686 .1968 .0608 .2034 .3856 -.2354 .0425 .1275 .0204 .0988 .0082

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1308 .3462 -.0613 .0248 -.1077 -.0359 -.1740 -.1563 -.2115 -.1420 .5662 .5607 .5662 .2962 .3072

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .3117 -.0845 .0111 -.1181 .0089 -.1579 -.0806 -.0088 .0686 -.0086 .0740

MACH (1) = .302 ALPHA (2) = -.314 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8650 -.1321 .0307 .1638 .0684 .2093 .0817 .2081 .3366 -.1786 .0394 .1259 .0327 .1137 .0172

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .1303 .2945 -.0560 .0394 -.1014 -.0271 -.1591 -.1425 -.2090 -.1336 .5322 .5267 .5234 .2558 .2558

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .2702 -.0549 .0307 -.0690 .0307 -.1422 -.0580 .0119 .0795 .0060 .0812

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP14)

MACH (1) = .301 ALPHA (3) = 1.610 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9596 -.0904 .0429 .1802 .0686 .2048 .0619 .2048 .2622 -.1538 .0324 .1227 .0190 .1027 .0223

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1194 .2521 -.0569 .0324 -.0937 -.0234 -.1572 -.1461 -.2030 -.1349 .4157 .4869 .5002 .2048 .2148

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2237 -.0278 .0306 -.0631 .0351 -.1267 -.0475 .0072 .0820 .0064 .0831

MACH (1) = .301 ALPHA (4) = 3.716 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .8784 -.0101 .0632 .1982 .0889 .2128 .0878 .2172 .2257 -.0790 .0504 .1285 .0315 .0952 .0315

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1374 .2110 -.0365 .0560 -.0734 -.0076 -.1380 -.1235 -.1905 -.1202 .3902 .4514 .4703 .1837 .1882

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1927 -.0165 .0521 -.0361 .0509 -.0897 -.0283 .0342 .0967 .0255 .0978

MACH (1) = .302 ALPHA (5) = 5.792 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9357 .0421 .0490 .1976 .0745 .2176 .0634 .2087 .1759 -.0353 .0248 .1202 .0214 .1002 .0348

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1357 .1623 -.0307 .0658 -.0629 .0070 -.1294 -.1183 -.1804 -.1094 .3772 .4436 .4259 .1433 .1522

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (1) = .302 ALPHA (5) = 5.792

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1621 -.0030 .0567 -.0265 .0590 -.0819 -.0076 .0423 .1056 .0355 .0919

MACH (1) = .302 ALPHA (6) = 7.695 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9612 .1265 .0652 .2028 .0863 .1973 .0486 .1829 .1288 .0293 .0159 .1046 .0159 .0924 .0181

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1302 .1180 -.0296 .0569 -.0673 .0037 -.1383 -.1194 -.1827 -.1139 .3410 .4217 .4018 .1118 .1240

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1318 -.0107 .0552 -.0325 .0652 -.0724 .0019 .0508 .1096 .0348 .0834

MACH (1) = .303 ALPHA (7) = 9.811 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9858 .1859 .0537 .2116 .0780 .1895 .0703 .1940 .0891 .0924 .0078 .0850 .0045 .0806 .0199

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1137 .0707 -.0286 .0597 -.0640 .0144 -.1258 -.1114 -.1799 -.1081 .3499 .3609 .3455 .0913 .0891

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .0990 -.0198 .0559 -.0412 .0637 -.0644 .0051 .0604 .1056 .0451 .0814

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (1) = .303 ALPHA (8) = 11.877 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9803	.2455	.0350	.1884	.0581	.1708	.0372	.1630	.0387	.1421	-.0218	.0532	-.0041	.0698	-.0019
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0874	.0312	-.0295	.0599	-.0648	.0091	-.1377	-.1200	-.1818	-.1145	.3236	.3478	.4193	.0659	.0637
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0692	-.0240	.0405	-.0335	.0526	-.0611	.0018	.0526	.0924	.0398	.0717				

MACH (1) = .303 ALPHA (9) = 15.916 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9363	.3708	-.0090	.1500	.0230	.0948	-.0333	.1003	-.0649	.2685	-.0878	-.0172	-.0657	.0005	-.0536
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0424	-.0414	-.0657	.0237	-.0966	-.0161	-.1407	-.1143	-.2047	-.1363	.2454	.2344	.2035	.0153	.0131
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0042	-.0591	.0020	-.0686	.0296	-.0752	-.0156	.0319	.0716	.0110	.0319				

MACH (1) = .302 ALPHA (10) = 19.967 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.8562	.4925	-.0972	.0569	-.0617	.0292	-.1094	.0192	-.1355	.3698	-.1663	-.1008	-.1086	-.0442	-.1086
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	-.0265	-.1041	-.1285	-.0220	-.1119	-.0431	-.1641	-.1507	-.2240	-.1663	.2426	.2106	.1619	-.0263	-.0362

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (1) = .302 ALPHA (10) = 19.967

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0551 -.1141 -.0584 -.1039 .0037 -.0961 -.0495 .0026 .0425 -.0481 -.0315

MACH (1) = .302 ALPHA (11) = 24.057 RN/L = 2.0817 Q(PSF) = 128.00 P = 1999.9 PO = 2130.8

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7555 .5941 -.2142 -.0611 -.1499 -.0733 -.2065 -.0911 -.2.36 .4702 -.2772 -.2151 -.1973 -.1352 -.2107

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1308 -.1718 -.2284 -.1463 -.1474 -.0764 -.1984 -.1896 -.2561 -.1984 .2723 .2015 .1684 -.0800 -.0877

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.1010 -.1707 -.1255 -.1288 -.0389 -.0999 -.0489 -.0012 .0354 -.1246 -.0992

MACH (2) = .400 ALPHA (1) = -2.460 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .6661 -.2159 -.0086 .1255 .0584 .1919 .0591 .2072 .3809 -.2404 .0343 .1186 .0210 .0974 -.0022

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1226 .3430 -.0845 .0137 -.1303 -.0507 -.1914 -.1748 -.2306 -.1549 .5821 .5689 .5662 .2915 .3002

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3048 -.0938 .0027 -.1361 -.0186 -.1780 -.0983 -.0140 .0618 -.0280 .0613

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ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP14)

MACH (2) = .401 ALPHA (2) = -.273 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9153	-.1412	.0334	.1622	.0770	.2084	.0704	.2203	.3383	-.1820	.0431	.1295	.0292	.1045	.0220
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1375	.3005	-.0546	.0424	-.0975	-.0256	-.1655	-.1543	-.2117	-.1338	.5370	.5337	.5515	.2566	.2605
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2704	-.0533	.0288	-.0795	.0367	-.1449	-.0511	.0070	.0882	.0114	.0838				

MACH (2) = .401 ALPHA (3) = 1.681 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9696	-.0840	.0424	.1715	.0808	.2092	.0695	.2125	.2769	-.1454	.0375	.1248	.0223	.0891	.0229
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1348	.2513	-.0419	.0481	-.0883	-.0174	-.1531	-.1405	-.1968	-.1220	.4820	.4998	.5150	.2119	.2224
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2284	-.0340	.0384	-.0530	.0503	-.1159	-.0457	.0205	.0960	.0169	.0836				

MACH (2) = .402 ALPHA (4) = 3.716 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9530	-.0088	.0591	.2069	.0881	.2208	.0696	.2168	.2284	-.0844	.0399	.1263	.0241	.0920	.0327
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1401	.2172	-.0365	.0590	-.0768	-.0075	-.1499	-.1341	-.1967	-.1229	.3874	.4577	.4669	.1812	.1865

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (2) = .402 ALPHA (4) = 3.716

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .2016 -.0220 .0551 -.0373 .0624 -.1039 -.0280 .0281 .1026 .0194 .0904

MACH (2) = .401 ALPHA (5) = 5.771 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9280 .0515 .0504 .2002 .0775 .2161 .0610 .2108 .1789 -.0238 .0291 .1258 .0238 .0960 .0278

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1344 .1701 -.0305 .0616 -.0762 -.0007 -.1397 -.1298 -.1914 -.1192 .3716 .4422 .4402 .1458 .1564

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1657 -.0139 .0590 -.0425 .0623 -.0856 -.0073 .0490 .1107 .0389 .1003

MACH (2) = .402 ALPHA (6) = 7.786 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET
.000 .9813 .1147 .0606 .2071 .0791 .2031 .0481 .2051 .1390 .0346 .0197 .1073 .0124 .0869 .0283

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET
.000 .1317 .1251 -.0231 .0625 -.0627 .0151 -.1299 -.1187 -.1826 -.1128 .3532 .3992 .4235 .1180 .1233

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET
.000 .1319 -.0027 .0540 -.0384 .0758 -.0647 .0131 .0705 .1174 .0523 .1035

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (2) = .401 ALPHA (7) = 9.842 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0047	.1911	.0651	.1999	.0750	.1959	.0314	.1900	.0805	.1042	-.0071	.0972	.0074	.0787	.0061
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1137	.0767	-.0335	.0543	-.0665	.0061	-.1378	-.1259	-.1919	-.1127	.3550	.3642	.3978	.0863	.0883
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0982	-.0209	.0486	-.0412	.0665	-.0624	.0030	.0618	.1127	.0364	.0878				

MACH (2) = .401 ALPHA (8) = 11.836 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9956	.2620	.0305	.1850	.0371	.1784	.0167	.1612	.0326	.1556	-.0368	.0648	-.0156	.0569	-.0137
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0945	.0391	-.0407	.0562	-.0743	.0048	-.1456	-.1330	-.1911	-.1192	.3245	.3560	.3613	.0596	.0596
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0668	-.0341	.0345	-.0447	.0596	-.0645	.0008	.0497	.0992	.0280	.0714				

MACH (2) = .402 ALPHA (9) = 15.927 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9524	.3868	-.0170	.1484	.0048	.1115	-.0354	.1089	-.0710	.2607	-.0941	-.0170	-.0559	.0087	-.0605
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0344	-.0354	-.0723	.0232	-.1046	-.0157	-.1507	-.1296	-.2113	-.1487	.2568	.2791	.1996	.0087	.0061

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (2) = .402 ALPHA (9) = 15.927

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0048 -.0730 -.0025 -.0723 .0305 -.0796 -.0137 .0258 .0673 .0092 .0335

MACH (2) = .401 ALPHA (10) = 19.997 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .8731 .4889 -.1111 .0254 -.0647 .0287 -.1111 .0115 -.1494 .3800 -.1622 -.1060 -.1139 -.0563 -.1219

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0292 -.1166 -.1225 -.0285 -.1219 -.0424 -.1702 -.1629 -.2357 -.1728 .2051 .2731 .1226 -.0435 -.0442

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0641 -.1278 -.0654 -.1104 -.0104 -.0932 -.0462 -.0111 .0373 -.0418 -.0233

MACH (2) = .400 ALPHA (11) = 24.016 RN/L = 2.6592 Q(PSF) = 214.48 P = 1906.4 PO = 2129.9

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .7757 .6074 -.2803 -.0603 -.1607 -.0909 -.1979 -.0995 -.2365 .4856 -.2824 -.2100 -.1834 -.1389 -.2100

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.1416 -.1927 -.2446 -.1402 -.1655 -.0897 -.2173 -.2040 -.2831 -.2160 .1994 .1384 .0881 -.0836 -.0982

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.1161 -.1867 -.1381 -.1374 -.0264 -.1175 -.0736 -.0111 .0182 -.1312 -.1298

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (3) = .502 ALPHA (1) = -2.481 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.7143	-.2058	.0021	.1360	.0623	.2016	.0636	.2209	.4012	-.2447	.0393	.1270	.0268	.0838	.0052
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1364	.3597	-.0829	.0227	-.1197	-.0424	-.1943	-.1804	-.2356	-.1673	.5853	.5768	.5665	.3072	.3086
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3194	-.0905	.0083	-.1521	.0056	-.1629	-.0824	-.0087	.0686	-.0073	.0666				

MACH (3) = .501 ALPHA (2) = -.294 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9504	-.1382	.0349	.1679	.0713	.2092	.0708	.2290	.3461	-.1829	.0392	.1303	.0293	.0939	.0243
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1451	.3126	-.0520	.0427	-.1014	-.0246	-.1732	-.1647	-.2248	-.1431	.5561	.5471	.5672	.2636	.2694
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2788	-.0614	.0246	-.0689	.0403	-.1511	-.0666	.0115	.0915	.0131	.0901				

MACH (3) = .502 ALPHA (3) = 1.721 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9915	-.0694	.0567	.1966	.0903	.2226	.0760	.2311	.3009	-.1333	.0471	.1430	.0368	.0986	.0336
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1551	.2662	-.0417	.0565	-.0802	-.0134	-.1577	-.1425	-.2048	-.1313	.4912	.5082	.5015	.2293	.2369

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP14)

MACH (3) = .502 ALPHA (3) = 1.721

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2338 -.0206 .0477 -.0437 .0639 -.1204 -.0442 .0204 .1011 .0289 .0972

MACH (3) = .502 ALPHA (4) = 3.655 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9735 -.0067 .0619 .2051 .0902 .2316 .0785 .2298 .2527 -.0693 .0406 .1375 .0366 .1025 .0388

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1532 .2227 -.0267 .0698 -.0711 .0011 -.1433 -.1308 -.1958 -.1191 .3985 .4682 .4714 .1939 .1984

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2006 -.0101 .0547 -.0247 .0646 -.0943 -.0216 .0426 .1113 .0309 .1065

MACH (3) = .501 ALPHA (5) = 5.761 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9661 .0587 .0537 .2135 .0812 .2162 .0676 .2189 .1942 -.0301 .0280 .1230 .0303 .0955 .0339

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1405 .1779 -.0251 .0708 -.0701 .0087 -.1412 -.1200 -.1938 -.1160 .3902 .4597 .4166 .1536 .1577

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1712 -.0066 .0577 -.0260 .0694 -.0796 -.0080 .0487 .1145 .0470 .1040

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (3) = .501 ALPHA (6) = 7.786 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9919	.1305	.0666	.2182	.0950	.2141	.0581	.2128	.1341	.0445	.0212	.1161	.0248	.0850	.0293
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1358	.1313	-.0237	.0702	-.0597	.0073	-.1334	-.1186	-.1932	-.1123	.3542	.4182	.3923	.1206	.1246
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1350	-.0076	.0590	-.0260	.0698	-.0539	.0068	.0792	.1107	.0494	.0974				

MACH (3) = .501 ALPHA (7) = 9.852 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0248	.2002	.0260	.2082	.0662	.1969	.0346	.1942	.0880	.0996	.0008	.0995	.0089	.0797	.0130
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1107	.0797	-.0299	.0643	-.0655	.0148	-.1331	-.1258	-.1975	-.1186	.3381	.3803	.4131	.0873	.0905
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.0923	-.0190	.0490	-.0344	.0792	-.0384	.0152	.0680	.1126	.0399	.1059				

MACH (3) = .501 ALPHA (8) = 11.927 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0163	.2678	.0226	.1804	.0443	.1705	.0082	.1876	.0406	.1470	-.0368	.0569	-.0188	.0663	-.0107
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0992	.0434	-.0359	.0654	-.0733	.0095	-.1441	-.1314	-.1950	-.1157	.3432	.3594	.3356	.0596	.0583

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (3) = .501 ALPHA (8) = 11.927

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0695 -.0323 .0366 -.0409 .0844 -.0283 .0299 .0510 .1042 .0415 .0958

MACH (3) = .500 ALPHA (9) = 15.876 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9748 .3832 -.0136 .1411 -.0059 .1217 -.0375 .1104 -.0578 .2748 -.0986 -.0080 -.0521 .0114 -.0526

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0403 -.0355 -.0661 .0277 -.1031 -.0161 -.1509 -.1338 -.2257 -.1477 .2937 .3153 .1768 .0121 .0067

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0013 -.0738 -.0023 -.0605 .0716 -.0330 .0130 .0238 .0694 .0258 .0595

MACH (3) = .499 ALPHA (10) = 24.118 RN/L = 3.1489 Q(PSF) = 314.92 P = 1792.1 PO = 2127.1

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .7993 .6228 -.2926 -.0515 -.1480 -.0682 -.2051 -.0823 -.2440 .5099 -.2656 -.2090 -.2008 -.1239 -.2122

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1492 -.1918 -.2325 -.1334 -.1614 -.0876 -.2126 -.1990 -.2814 -.2147 .2007 .1560 .0634 -.0850 -.1027

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.1144 -.1936 -.1339 -.1321 -.0134 -.1117 -.0628 -.0129 .0174 -.1415 -.1190

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (4) = .621 ALPHA (1) = -2.440 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.7484	-.1894	.0226	.1550	.0877	.2218	.0774	.2384	.4149	-.2328	.0567	.1452	.0381	.0987	.0246
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1635	.3749	-.0694	.0429	-.1117	-.0392	-.1852	-.1749	-.2381	-.1473	.6205	.6183	.5847	.3173	.3298
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.3362	-.0719	.0258	-.1256	.0226	-.1721	-.0739	.0008	.0864	.0031	.0859				

MACH (4) = .620 ALPHA (2) = -.334 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9640	-.1186	.0469	.1832	.0880	.2339	.0829	.2487	.3702	-.1808	.0502	.1511	.0438	.1077	.0316
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1659	.3288	-.0503	.0522	-.0982	-.0198	-.1801	-.1634	-.2351	-.1438	.5892	.5902	.5479	.2761	.2847
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2899	-.0551	.0363	-.0547	.0543	-.1463	-.0540	.0237	.0932	.0162	.0950				

MACH (4) = .621 ALPHA (3) = 1.721 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0156	-.0708	.0636	.2035	.1021	.2356	.0951	.2501	.3103	-.1350	.0552	.1501	.0501	.1123	.0466
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1639	.2883	-.0330	.0680	-.0795	-.0073	-.1551	-.1494	-.2154	-.1279	.5208	.5582	.5332	.2408	.2427

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (4) = .621 ALPHA (3) = 1.721

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2504 -.0259 .0611 -.0397 .0684 -.1151 -.0288 .0177 .1073 .0305 .1046

MACH (4) = .621 ALPHA (4) = 3.756 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9531 -.0001 .0754 .2183 .1062 .2378 .0972 .2484 .2628 -.0771 .0558 .1489 .0440 .1101 .0485

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1662 .2358 -.0241 .0770 -.0770 .0029 -.1537 -.1360 -.2089 -.1245 .4508 .5224 .4770 .1993 .2012

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2157 -.0119 .0616 -.0168 .0722 -.0973 -.0129 .0378 .1162 .0367 .1086

MACH (4) = .620 ALPHA (5) = 5.761 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9762 .0629 .0594 .2211 .0985 .2362 .0847 .2417 .2024 -.0295 .0394 .1324 .0378 .1109 .0387

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1555 .1940 -.0213 .0776 -.0678 .0172 -.1404 -.1253 -.1959 -.1105 .4055 .5024 .4500 .1621 .1672

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1756 .0009 .0648 -.0273 .0732 -.0758 .0061 .0545 .1216 .0479 .1157

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (4) = .620 ALPHA (6) = 7.776 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0290	.1320	.0551	.2265	.1045	.2243	.0695	.2323	.1560	.0495	.0302	.1261	.0331	.1020	.0331
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1498	.1502	-.0205	.0793	-.0583	.0199	-.1347	-.1167	-.1924	-.1058	.3828	.4887	.4234	.1305	.1283
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1453	-.0035	.0637	-.0239	.0740	-.0724	.0120	.0621	.1274	.0584	.1042				

MACH (4) = .619 ALPHA (7) = 9.892 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0622	.2117	.0212	.2200	.0866	.2142	.0525	.2097	.0919	.0990	.0052	.1070	.0194	.0861	.0114
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1244	.0935	-.0192	.0780	-.0647	.0172	-.1381	-.1197	-.1941	-.1114	.3887	.4310	.3989	.0911	.0944
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.1024	-.0196	.0457	-.0304	.0702	-.0642	.0132	.0618	.1147	.0399	.0935				

MACH (4) = .620 ALPHA (8) = 11.846 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	1.0556	.2743	.0277	.2028	.0634	.1883	.0264	.1886	.0477	.1605	-.0242	.0768	-.0046	.0735	-.0053
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1083	.0488	-.0268	.0694	-.0670	.0173	-.1429	-.1230	-.1940	-.1130	.3746	.3932	.3436	.0634	.0692

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (4) = .620 ALPHA (8) = 11.846

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 .0747 -.0297 .0425 -.0395 .0705 -.0656 .0088 .0564 .1095 .0313 .0810

MACH (4) = .619 ALPHA (9) = 16.018 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO .1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 1.0073 .4032 -.0255 .1568 .0054 .1375 -.0332 .1221 -.0536 .2806 -.0859 .0071 -.0531 .0235 -.0579

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 .0525 -.0280 -.0692 .0300 -.1027 -.0096 -.1519 -.1307 -.2272 -.1377 .3339 .3775 .2062 .0074 .0013

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0058 -.0698 -.0007 -.0799 .0383 -.0896 -.0168 .0280 .0789 -.0017 .0323

MACH (4) = .621 ALPHA (10) = 20.088 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1)FORE BODY DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET .000 .9456 .5306 -.1033 .0718 -.0558 .0506 -.1052 .0179 -.1419 .4023 -.1311 -.0914 -.1071 -.0440 -.1250

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET .000 -.0276 -.1109 -.1180 -.0260 -.1260 -.0385 -.1753 -.1615 -.2500 -.1721 .2293 .2963 .1141 -.0453 -.0533

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET .000 -.0706 -.1285 -.0700 -.1248 .0041 -.1020 -.0238 -.0042 .0349 -.0559 -.0226

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ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (4) = .622 ALPHA (11) = 24.179 RN/L = 3.6032 Q(PSF) = 442.14 P = 1639.3 PO = 2125.4

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.8611	.6600	-.2645	-.0386	-.1373	-.0553	-.2039	-.0761	-.2458	.5177	-.2822	-.2003	-.1798	-.1149	-.2144
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	-.1232	-.1891	-.2342	-.1277	-.1625	-.0835	-.2134	-.2045	-.2870	-.2118	.2416	.1896	.0507	-.0861	-.0960
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	-.1184	-.1910	-.1370	-.1562	-.0354	-.1264	-.0678	-.0239	.0161	-.1392	-.1283				

MACH (5) = .702 ALPHA (1) = -2.470 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.7922	-.1897	.0319	.1647	.0967	.2376	.0875	.2558	.4363	-.2363	.0558	.1572	.0426	.1155	.0362
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1736	.3932	-.0619	.0451	-.1098	-.0294	-.1953	-.1704	-.2452	-.1520	.6440	.6521	.6196	.3311	.3430
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.3448	-.0649	.0313	-.1295	.0260	-.1716	-.0786	.0171	.0929	.0070	.0861				

MACH (5) = .699 ALPHA (2) = -.314 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9416	-.1128	.0699	.2090	.1102	.2469	.1019	.2682	.3965	-.1774	.0700	.1619	.0511	.1252	.0522
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1782	.3506	-.0392	.0714	-.0849	-.0122	-.1790	-.1676	-.2409	-.1469	.6158	.6328	.5878	.2991	.3007

ARC 150-1-14(OA220) TPS+ADP+FTP

(XNLP14)

MACH (5) = .699 ALPHA (2) = -.314

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .3088 -.0576 .0504 -.0405 .0659 -.1393 -.0437 .0247 .0994 .0311 .1050

MACH (5) = .699 ALPHA (3) = 1.640 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0135 -.0501 .0770 .2187 .1090 .2588 .1085 .2685 .3303 -.1245 .0544 .1689 .0566 .1239 .0560

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1805 .2958 -.0287 .0790 -.0733 .0038 -.1536 -.1443 -.2180 -.1291 .5631 5900 .5547 .2517 .2604

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2650 -.0176 .0643 -.0270 .0811 -.1039 -.0221 .0318 .1182 .0433 .1177

MACH (5) = .699 ALPHA (4) = 3.655 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9938 .0118 .0848 .2385 .1268 .2582 .1081 .2701 .2779 -.0782 .0655 .1619 .0549 .1317 .0641

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1730 .2487 -.0153 .0865 -.0696 .0120 -.1424 -.1315 -.2108 -.1226 .5093 .5561 .5219 .2136 .2130

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .2290 -.0010 .0746 -.0185 .0813 -.0872 -.0039 .0402 .1176 .0401 .1198

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (5) = .701 ALPHA (5) = 5.771 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0089	.0783	.0820	.2481	.1222	.2583	.1036	.2588	.2273	-.0087	.0587	.1541	.0533	.1261	.0563
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1745	.2039	-.0076	.0989	-.0542	.0283	-.1282	-.1126	-.1988	-.1064	.4410	.5275	.4781	.1761	.1842
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1912	.0081	.0793	-.0067	.0928	-.0676	.0187	.0631	.1308	.0659	.1325				

MACH (5) = .701 ALPHA (6) = 7.776 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0364	.1564	.0652	.2567	.1207	.2532	.0935	.2538	.1704	.0523	.0438	.1502	.0476	.1208	.0438
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1602	.1642	-.0079	.0963	-.0423	.0393	-.1207	-.1002	-.1833	-.0892	.4038	.4883	.4435	.1398	.1465
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.1573	.0088	.0787	-.0105	.0978	-.0614	.0267	.0730	.1358	.0706	.1267				

MACH (5) = .700 ALPHA (.7) = 9.912 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	1.0908	.2439	.0391	.2443	.1051	.2332	.0648	.2324	.1171	.1192	.0195	.1176	.0233	.1068	.0295
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.1500	.1181	-.0121	.0973	-.0445	.0366	-.1242	-.1034	-.1849	-.0958	.3982	.4400	.4028	.1067	.1126

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (5) = .700 ALPHA (7) = 9.912

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .1218 -.0026 .0648 -.0182 .0923 -.0515 .0302 .0740 .1351 .0576 .1138

MACH (5) = .698 ALPHA (8) = 11.917 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0840 .2920 .0349 .2294 .0864 .2183 .0476 .2020 .0609 .1756 -.0114 .0970 .0125 .0880 .0084

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .1176 .0620 -.0190 .0823 -.0637 .0352 -.1333 -.1178 -.1912 -.0989 .3881 .4214 .3636 .0769 .0682

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0791 -.0219 .0528 -.0355 .0761 -.0593 .0252 .0639 .1199 .0425 .0852

MACH (5) = .702 ALPHA (9) = 16.058 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1)FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 1.0452 .4318 -.0015 .1852 .0477 .1593 -.0042 .1443 -.0269 .3056 -.0527 .0267 -.0266 .0423 -.0398

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 .0716 -.0027 -.0406 .0509 -.0839 .0121 -.1296 -.1159 -.2031 -.1164 .3574 .3753 .2057 .0283 .0227

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 .0195 -.0599 .0181 -.0661 .0485 -.0712 -.0034 .0391 .0934 .0197 .0487

ARC 150-1-14(0A220) TPS+ADP+FTP

(XNLP14)

MACH (5) = .703 ALPHA (10) = 20.118 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9852 .5500 -.1003 .0894 -.0310 .0835 -.0858 .0515 -.1220 .4257 -.1280 -.0668 -.0880 -.0260 -.1089

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.0168 -.0890 -.0885 .0030 -.1000 -.0195 -.1629 -.1423 -.2237 -.1377 .2428 .3110 .1367 -.0248 -.0344

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.0506 -.1183 -.0457 -.1051 .0069 -.0901 -.0331 -.0003 .0542 -.0413 -.0204

MACH (5) = .701 ALPHA (11) = 24.330 RN/L = 3.8262 Q(PSF) = 525.87 P = 1531.3 PO = 2124.9

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO 1.0000 2.0000 3.0000 4.0000 5.0000 6.0000 7.0000 8.0000 9.0000 10.0000 11.0000 12.0000 13.0000 14.0000 15.0000

SET

.000 .9040 .6777 -.2553 -.0099 -.1119 -.0276 -.1870 -.0575 -.2348 .5482 -.2429 -.1707 -.1742 -.1055 -.2092

TAP NO 16.0000 17.0000 19.0000 20.0000 21.0000 22.0000 23.0000 24.0000 25.0000 26.0000 27.0000 28.0000 29.0000 30.0000 31.0000

SET

.000 -.1163 -.1750 -.2277 -.1109 -.1506 -.0662 -.1870 -.1788 -.2732 -.1894 .2492 .1873 .0518 -.0705 -.0804

TAP NO 32.0000 33.0000 34.0000 35.0000 36.0000 37.0000 38.0000 39.0000 40.0000 41.0000 42.0000

SET

.000 -.1082 -.1794 -.1262 -.1189 -.0171 -.1252 -.0551 -.0212 .0173 -.1466 -.1350

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TABULATED SOURCE DATA - 0A220

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ARC 150-1-14(0A220) TPS(MOD)+ADP+FTP

(XNLP15) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSCAP = .000
PHI-N = 180.000

MACH (1) = .619 ALPHA (1) = .132 RN/L = 3.4495 Q(PSF) = 439.25 P = 1640.5 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000	
SET	.000	.9464	-.0853	.0849	.1476	.1625	.1972	.1716	.2033	.3328	-.1511	.1021	.1005	.0947	.0924	.0888
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000	
SET	.000	.0979	.2936	-.0021	.0177	-.0584	-.0500	-.1376	-.1855	-.1839	-.1700	.5205	.4928	.4654	.2651	.2596
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000					
SET	.000	.2609	.0092	-.0029	.0043	.0046	-.0984	-.0880	.0622	.0418	.0750	.0469				

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PARAMETRIC DATA

BETA = .000 TPSPAP = .000
 PHI-N = 180.000

MACH (1) = .621 ALPHA (1) = .132 RN/L = 3.4425 Q(PSF) = 442.75 P = 1635.5 PO = 2123.0

SECTION (1) FORE BODY

DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9518	-.0894	.0927	.1426	.1584	.1851	.1671	.2003	.3277	-.1565	.0969	.0975	.0882	.0782	.0830
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.0878	.2827	-.0123	.0128	-.0526	-.0561	-.1457	-.1888	-.1632	-.1737	.5042	.5203	.4879	.2592	.2540
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2515	.0099	-.0068	-.0043	.0144	-.0893	-.0867	.0637	.0408	.0740	.0515				

DATE 14 SEP 76

TABULATED SOURCE DATA - OA220

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ARC 150-1-14(OA220) TPS(MOD)+ADP+FTP

(XNLP17) (22 JUN 76)

PARAMETRIC DATA

BETA = .000 TPSCAP = .000
PHI-N = 180.000

MACH (1) = .621 ALPHA (1) = .101 RN/L = 3.4335 Q(PSF) = 440.45 P = 1638.5 P0 = 2123.0

SECTION (1) FORE BODY DEPENDENT VARIABLE CP

TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000	10.0000	11.0000	12.0000	13.0000	14.0000	15.0000
SET .000	.9274	-.0952	.0844	.1483	.1534	.1938	.1631	.2147	.3391	-.1573	.0986	.0983	.0931	.0902	.0909
TAP NO	16.0000	17.0000	19.0000	20.0000	21.0000	22.0000	23.0000	24.0000	25.0000	26.0000	27.0000	28.0000	29.0000	30.0000	31.0000
SET .000	.1028	.2947	-.0007	.0118	-.0633	-.0594	-.1449	-.1827	-.1807	-.1697	.5121	.5169	.5076	.2683	.2557
TAP NO	32.0000	33.0000	34.0000	35.0000	36.0000	37.0000	38.0000	39.0000	40.0000	41.0000	42.0000				
SET .000	.2654	.0106	-.0107	-.0056	.0077	-.0949	-.0910	.0715	.0477	.0714	.0479				

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