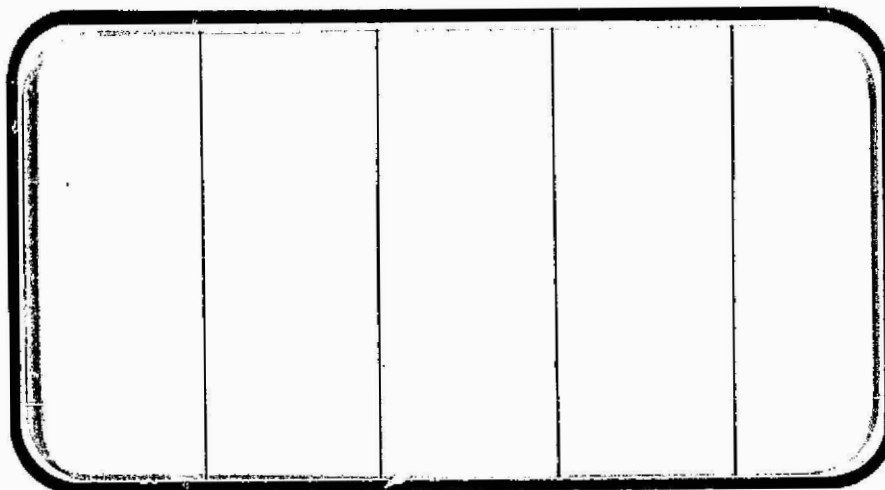




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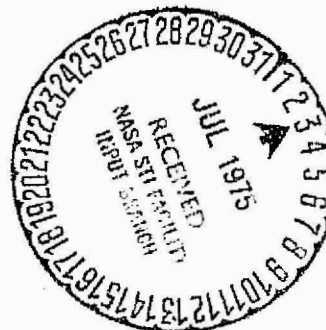


(NASA-CR-141528) RESULTS OF INVESTIGATIONS
OF AN 0.010-SCALE 140A/B CONFIGURATION
(MODEL 72-OTS) OF THE ROCKWELL INTERNATIONAL
SPACE SHUTTLE ORBITER IN THE NASA/LANGLEY
RESEARCH CENTER UNITARY PLAN WIND TUNNEL

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Unclas

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



CHRYSLER CORPORATION

May, 1975

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NASA-CR-141,528

RESULTS OF INVESTIGATIONS ON AN 0.010-SCALE
140A/B CONFIGURATION (MODEL 72-OTS) OF THE
ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER
IN THE NASA/LANGLEY RESEARCH CENTER
UNITARY PLAN WIND TUNNEL (IA44)

By

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Prepared under NASA Contract Number NAS9-13247

By

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New Orleans, La. 70189

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Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC UPWT-1088/1119
NASA Series Number: IA44
Model Number: 72-OTS
Test Dates: 12 August through 27 September 1974
Occupancy Hours: 188

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF INVESTIGATIONS ON AN 0.010-SCALE 140A/B CONFIGURATION
(MODEL 72-OTS) OF THE ROCKWELL INTERNATIONAL SPACE SHUTTLE ORBITER IN
THE NASA/LANGLEY RESEARCH CENTER UNITARY PLAN WIND TUNNEL (IA44)

By

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ABSTRACT

Experimental aerodynamic investigations were conducted in the NASA/Langley Unitary Plan Wind Tunnel on a sting mounted 0.010-scale outer mold line model of the 140A/B configuration of the Rockwell International Space Shuttle Vehicle. These tests were conducted during the time period from August 12, 1974 to September 27, 1974.

The primary test objectives were to obtain: 1) six component force and moment data for the mated vehicle at subsonic and transonic conditions, 2) effects of configuration build-up, 3) effects of protuberances, ET/Orbiter fairings and attach structures, and 4) elevon deflection effects on wing bending moment.

Six component aerodynamic force and moment data and base and balance cavity pressures were recorded over Mach numbers of 1.6, 2.0, 2.5, 2.86, 3.9, and 4.63 at a nominal Reynolds number of 2.0×10^6 per foot. Selected configurations were tested at angles of attack and sideslip from -10° to $+10^\circ$. For all configurations involving the Orbiter, wing bending and torsion coefficients were measured on the right wing.

For all build-up tests, the elevon, bodyflap, rudder, and speed brake settings were 0°. For the tests to determine the effects of elevon settings on wing bending moments, inboard elevon settings of 0°, +4° and +8° and outboard settings of 0°, -4° and -8° were tested.

The model was sting mounted on the NASA/LRC 8434 balance. For most tests the balance was installed in the Orbiter. For configurations where the Orbiter was excluded, the balance was installed in the external tank.

The plotted data figures section of this report utilizes selected data from test IA43 to cover the Mach range of 0.6 to 4.6. Test IA43 is completely documented in DMS-DR-2204.

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COEFFICIENT SCHEDULE:

- A: CAF, CAB, CNF, CLMF vs. ALPHA; CNF vs. CLMF; CAFAFO, CABAFO, CNFAFO, CLMAFO, DCNFDA, DCLMDA, XAC/L vs. MACH
- B: CY, CYN, CBL vs. BETA; CY vs. CYN; DCY/DB, DCYNDB, DCBLDB, YAC/L vs. MACH
- C: CAF, CAB, CNF, CLMF vs. ALPHA; CNF vs. CLMF
- D: CAF, CNF, CLMF vs. ALPHA
- E: CBW, CTW, CNWG vs. ALPHA
- F: CBW, CTW, CNWG vs. BETA
- G: CBW, CTW, CNWG vs. ELV-LO
- H: CBW, CTW, CNWG vs. ELV-LI
- I: DLTCNF, DLTCMF, DLTCAF vs. DLE-LO
- J: DLTCNF, DLTCMF, DLTCAF vs. DLE-LI

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _F	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

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OF POOR QUALITY

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
AbACPS		attitude control propulsion system base area, ft ²
AbET		external tank base area, ft ²
AbOMS		OMS pods base area, ft ²
Ab _o		Orbiter fuselage base area, ft ²
Ab _f		Orbiter bodyflap base area, ft ²
AbSRB		SRB base area, ft ²
AbSRB		SRB nozzle base area, ft ²
AcET		external tank balance cavity area, ft ²
AcORB		Orbiter balance cavity area, ft ²
b		Orbiter wing span, in
CAb _{ET}	CABET	external tank base axial force coefficient
CAb _{OMS}		OMS pod base axial force coefficient
CAb _o	CABO	Orbiter base axial force coefficient
CAb _{ACPS}	CPTC	ACPS base axial force coefficient
CAb _{SRB}	CABSRB	SRB base axial force coefficient
CAb _{AFO}	CABAFO	base-force coefficient, CAB for ALPHA of 0 degrees
CA _f AFO	CAFAFO	forebody axial force coefficient, CAF for ALPHA of 0 degrees
C _{BW}	CBW	Orbiter wing bending moment coefficient

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$C_{l\beta}$	DCBLDB	rolling moment due to beta, per degree (body axis)
C_{lWO}	CLWO	wing root roll axis bending moment coefficient about outboard gage, $C_{lWO} = m_2/qSb$
C_{lWI}	CLWI	wing root roll axis bending moment coefficient about inboard gage, $C_{lWI} = m_1/qSb$
$C_{m_{AFO}}$	CLMAFO	forebody pitching moment coefficient, CLMF for ALPHA of 0 degrees
$C_{m_{WG}}$	CMWG	wing root pitch axis bending moment coefficient about gage, $C_{m_{WG}} = m_3/qSc$
$C_{N_{WG}}$	CN WG	wing root normal force coefficient about gage
$C_{m_{\delta a}}$	DCLMDA	forebody pitching moment due to aileron, per degree (body axis)
$C_{m_{bf}}$	CLMBF	Orbiter body flap base pitching moment coefficient
$C_{m_{b_0}}$	CLMBO	Orbiter fuselage base axial force coefficient
C_{m_f}	CLMF	forebody pitching moment coefficient
$C_{N_{bf}}$	CNBF	Orbiter bodyflap normal force coefficient
$C_{N_{b_0}}$	CNBO	Orbiter fuselage base normal force coefficient
C_{N_f}	CNF	forebody normal force coefficient
C_{n_3}	DCYNDB	yawing moment due to beta, per degree (body axis)

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$C_{N_{FAFO}}$	CNFAFO	forebody normal force coefficient, CNF for ALPHA of 0 degrees
$C_{N_{\delta_a}}$	DCNFDA	forebody normal force due to aileron, per degree (body axis)
$C_{Y\beta}$	DCY/DB	side force due to beta, per degree (body axis)
C_{N_W}	CNW	Orbiter root normal force coefficient
$C_{P_{bET}}$	CPET	external tank base pressure coefficient
$C_{P_{bf}}$	CPBF	bodyflap base pressure coefficient
$C_{P_{bO}}$	CPORB	Orbiter fuselage base pressure coefficient
$C_{P_{bSRB}}$	CPSRB	SRB base pressure coefficient
$C_{P_{bSRBN}}$	CPSRBN	SRBN base pressure coefficient
$C_{P_{OMS}}$	CPOMS	OMS pod base pressure coefficient
C_{T_W}	CTW	Orbiter wing torsional moment coefficient
i_{bO}		Orbiter base incidence angle, deg.
l_b		Orbiter fuselage length, in
m_1		wing strain gage number 1 measurement, in-lb
m_2		wing strain gage number 2 measurement, in-lb

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
m_3		wing strain gage number 3 measurement, in-lb
$P_{()}$		pressure measurement at orifice number equal to subscript, psia
X_{CPW}	XCPW	longitudinal location of wing center of pressure, inches aft of Orbiter nose ($X_0 = 235$)
X_{G_3}		longitudinal location of wing strain gage number 3, in X_0
XAC/L	XAC/L	longitudinal location of wing aerodynamic center, XAC/L, fraction body length
X_0		Orbiter longitudinal station, in
X_S		SRB longitudinal station, in
X_T		external tank longitudinal station, in
X_{WRC}		longitudinal location at wing reference center, in X_0
YAC/L	YAC/L	lateral location of wing aerodynamic center, YAC/L, fraction body length
Y_{CPW}	YCPW	lateral location of wing center of pressure, in Y_0
Y_{G_1}		lateral location of wing strain gage number 1, in Y_0
Y_{G_2}		lateral location of wing strain gage number 2, in Y_0
Y_0		Orbiter lateral station, in
Y_S		SRB lateral station, in
Y_T		external tank lateral station, in

NOMENCLATURE (Continued)
Additions to Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
Y_{WRC}		lateral location of wing reference center, in Y_0
Z_0		Orbiter vertical station, in
Z_S		SRB vertical station, in
Z_T		external tank vertical station, in
δ_{eI}	ELV-I	inboard elevon panel deflection angle, deg.
δ_{eO}	ELV-O	outboard elevon panel deflection angle, deg.
δ_r	RUDDER	rudder deflection angle, deg.
δ_{SB}	SPDBRK	speed brake deflection angle, deg.
ΔC_{Af}	DLTCAF	incremental forebody axial force coefficient
ΔC_{mf}	DLTCMF	incremental forebody pitching moment coefficient
ΔC_{Nf}	DLTCNF	incremental forebody normal force coefficient
$\Delta \delta_{e_{LO}}$	DLE-LO	incremental elevon deflection angle, left outboard, degrees
$\Delta \delta_{e_{LI}}$	DLE-LI	incremental elevon deflection angle, left inboard, degrees

Abbreviations and Subscripts

<u>Symbol</u>	<u>Definition</u>
a	aileron
ACPS	attitude control propulsion system
BAC	internal balance
e	elevon

NOMENCLATURE (Concluded)
Additions to Standard List

<u>Symbol</u>	<u>Definition</u>
ET	external oxygen/hydrogen tank
i	model pressure number
I	inboard
L	left
O	outboard
MPS	main propulsion system
OMS	Orbital maneuvering system
ORB	Orbiter
r	rudder
R	right
SRB	solid rocket booster
SRBN	solid rocket booster nozzle

CONFIGURATIONS INVESTIGATED

Configuration build-up studies were performed during this test series. In addition to the build-up of the major components, protuberance build-up studies and alternate SRB nozzle configurations were investigated.

Model 72-OTS dimensional data are presented in Table III.

The tested configurations included the following components:

AT ₂₈	Attach structure, VL78-000063, VL78-000062B, VC78-000002
AT ₂₉	Attach structure, VL78-000062B, 82600207000, BC78-000002
AT ₃₀	Attach structure, VL78-000066, 82600207000, VC78-000002
AT ₃₁	Attach structure, VL78-000063, VL78-000062B, VL78-000066, VC78-000002
AT ₃₂	Attach structure VL78-000063, VL78-000062B, VL78-000066, VC78-000002
B ₂₆	Fuselage, VL70-000193, VL70-000140A, VL70-000140B
C ₉	Canopy, VL70-000140A, VL70-000143A
E ₄₄	Elevon, SAS/AERO/74-344
F ₁₀	Bodyflap, VL70-000140B, VL70-000200
FL ₁₀	Feedline, VL78-000063, VL78-000062B, VC78-000002
FL ₁₁	Feedline, VL78-000063, VL78-000062B, VC78-000002
FR ₁₀	Fairing, VL78-000063, VL78-000062B, 82600207000, VC78-000002
M ₁₄	Alternate OMS pod, VL70-008457

CONFIGURATIONS INVESTIGATED (Continued)

M ₁₆	OMS pod, VL70-000203
N ₂₈	OMS Nozzle, VL70-000140A
N ₈₆	SRBN, VL77-000066, VC77-000002
PS ₁	Electrical tunnel
PS ₂	Attach ring
PS ₃	4 intermediate rings
PS ₄	Aft structural ring
PS ₅	Aft separation motor fairing
PS ₆	Tiedown struts
PT ₂₂	Electrical line, VL78-000063, VL78-000062B, VC78-000002
PT ₂₃	LO ₂ recirculation line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT ₂₄	LH ₂ recirculation line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT ₂₅	Electrical line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
PT ₂₆	LO ₂ pressure line, VL78-000063, VL78-000062B, 82600207000, VC78-000002
R ₅	Rudder, VL70-000095
S ₁₈	SRB with alternate skirt, VL70-000066
S ₂₁	SRB, VL77-000066, VC77-000002

CONFIGURATIONS INVESTIGATED (Concluded)

T₂₈ ET, VL78-000063, VL78-00062B, VC78-000002

V₈ Vertical, VL70-000140A, VL70-000146A

W₁₁₆ Wing, VL70-000140B, VL70-000200

Shorthand notation used in Table III is as follows:

O₂ = B₂₆ C₉ E₄₄ F₁₀ M₁₆ N₂₈ R₅ V₈ W₁₁₆

O₃ = B₂₆ C₉ E₄₄ F₁₀ M₁₄ N₂₈ R₅ V₈ W₁₁₆

S₁ = AT₃₀ AT₃₁ N₈₆ S₂₁

S₂ = AT₃₀ AT₃₁ N₈₆ PS₂ S₂₁

S₃ = AT₃₀ AT₃₁ N₈₆ PS₂ PS₄ S₂₁

S₆ = AT₃₀ AT₃₁ N₈₆ PS₁ PS₂ PS₃ PS₄ PS₆ S₂₁

S₇ = AT₃₀ AT₃₁ N₈₆ PS₁ PS₂ PS₃ PS₄ PS₅ PS₆ S₂₁

S₈ = AT₃₀ AT₃₁ N₈₆ PS₁ PS₂ PS₃ PS₄ PS₅ PS₆ S₁₈

T₂ = AT₂₈ AT₃₂ FL₁₀ FL₁₁ FR₁₀ PT₂₃ PT₂₄ PT₂₆ T₂₈

T₄ = AT₂₈ AT₂₉ AT₃₂ FL₁₀ FL₁₁ PS₁ PS₂ PS₃ PS₄ PS₅ PS₆ PT₂₂ PT₂₃
PT₂₄ PT₂₅ PT₂₆ T₂₈

TEST FACILITY DESCRIPTION

The NASA LaRC 4-Foot Unitary Plan Wind Tunnel (UPWT) is a closed-circuit, continuous flow, variable density facility. The test section is 4 feet by 4 feet by 7 feet long.

Two tunnel legs are available for supersonic testing in the Mach number ranges 1.47 to 2.86 (Leg No. 1) and 2.29 to 4.63 (Leg No. 2). An asymmetric, sliding block nozzle position and total pressure setting provide the test Mach numbers at a specified Reynolds number. Reynolds number can be varied from 0.76 to 7.78 million per foot. Available stagnation pressure variation is 4.0 to 142. psia. Dynamic pressure variation is 95. to 1260. psf with normal operating stagnation temperature about 150°F in Mach modes 2 or 3 and about 175°F in Mach mode 4. The tunnel is equipped with a dry air supply, an evacuating system, and a cooling system. The facility power is approximately 83,000 horsepower.

Model mounting provisions consist of various sting arrangements, including axial (longitudinal), lateral (independent pitch and yaw), and roll movement with side wall support. A Schlieren system and oil flow visualization equipment are available. Data are recorded at the tunnel and reduced off-line at the Langley Computer Center. The tunnel is used for force and moment, pressure, and dynamic stability tests. Hot and cold jet effects and heat transfer have been studied in the UPWT.

DATA REDUCTION

The aerodynamic force and moment data were measured by the NASA/LRC 839A internal strain gage balance. The data were adjusted for tunnel corrections, sting and balance deflections, and model weight tares. Base pressure adjustments were made as follows:

$$C_{N_{b_0}} = -C_{p_{b_0}} \frac{A_{b_0}}{S} \tan i_{b_0}$$

$$C_{N_{bf}} = -C_{p_{bf}} \frac{A_{bf}}{S} \quad (C_{p_{bf}} \text{ from figure 2e})$$

$$C_{m_{b_0}} = -C_{N_{b_0}} \left(\frac{1263}{1290.3} \right) + C_{A_{b_0}} \left(\frac{336.5}{1290.3} \right)$$

$$C_{m_{bf}} = -C_{N_{bf}} \left(\frac{1339.7}{1290.3} \right)$$

$$C_{A_{b_0}} = -C_{p_{b_0}} \frac{A_{b_0}}{S} - C_{p_{OMS/ACPS}} \left(\frac{A_{b_{OMS}} + A_{b_{ACPS}}}{S} \right)$$

$$C_{A_{b_{ET}}} = -C_{p_{b_{ET}}} \frac{A_{b_{ET}}}{S}$$

$$C_{A_{b_{SRB}}} = -C_{p_{b_{SRB}}} \frac{A_{b_{SRB}}}{S} - C_{p_{b_{SRBN}}} \frac{A_{b_{SRBN}}}{S}$$

$$C_{N_f} = C_N - C_{N_{b_0}} - C_{N_{bf}}$$

$$C_{m_f} = C_m - C_{m_{b_0}} - C_{m_{bf}}$$

$$C_{A_f} = C_A - C_{A_{b_0}} - C_{A_{b_{ET}}} - C_{A_{b_{SRB}}}$$

DATA REDUCTION (Continued)

Where:

- $C_{p_{b_0}}$ = Average Orbiter base pressure coefficient measured by base pressure orifices
- $C_{p_{bf}}$ = Bodyflap base pressure coefficient obtained from figure 2e
- $C_{p_{OMS/ACPS}}$ = Average OMS plus ACPS base pressure coefficients measured by OMS and ACPS base pressure orifices
- $C_{p_{b_{ET}}}$ = Average external tank base pressure coefficient measured by ET base pressure orifices
- $C_{p_{b_{SRB}}}$ = Average booster base pressure coefficient measured by SRB base pressure orifices
- $C_{p_{b_{SRBN}}}$ = Average solid rocket booster nozzle base pressure coefficient measured by SRBN base pressure orifices
- i_{b_0} = Orbiter base incidence angle, angle between Orbiter base and plane orthogonal to Orbiter FRL, 14.75 degrees

Wing root strain gage measurements were reduced to bending and torsional moment coefficients as follows:

$$C_{N_W} = \frac{(m_1 - m_2)}{qS (Y_{G_2} - Y_{G_1})}$$

$$X_{CP_W} = X_{G_3} - \left(\frac{m_3}{qS C_{N_W}} \right) - X_{nose}$$

$$Y_{CP_W} = Y_{G_1} + \left(\frac{m_1}{qS C} \right)$$

$$C_{B_W} = \frac{m_2}{qSb} + C_{N_W} \frac{(Y_{G_2} - Y_{WRC})}{b}$$

$$C_{T_W} = \frac{m_3}{qS\bar{c}} - C_{N_W} \frac{(X_{G_3} - X_{WRC})}{\bar{c}}$$

DATA REDUCTION (Continued)

Where:

- $m_1, m_2,$ and m_3 = measurements of gages 1, 2, and 3, respectively, in-lb
- Y_{G1}, Y_{G2} = lateral location of gages 1 and 2, respectively, in Y_0
- Y_{WRC} = lateral location of wing reference center, in Y_0
- X_3 = longitudinal location of gage 3, in X_0
- X_{WRC} = longitudinal location of wing reference center, in X_0
- X_{nose} = longitudinal location of Orbiter nose, in X_0

The following reference dimensions and constants were used:

<u>Symbol</u>	<u>Full Scale</u>	<u>Model Scale</u>
A_{bACPS}	19.1 ft ²	0.275 in ²
A_{bET}	597.6 ft ²	8.604 in ²
A_{bf}	142.6 ft ²	2.044 in ²
A_{bOMS} Configuration 0 ₂	42.2 ft ²	0.6075 in ²
Configuration 0 ₃	26.0 ft ²	0.3744 in ²
A_{bO}	314.1 ft ²	4.523 in ²
A_{bSRB} Configuration S ₁ thru S ₇	127.5 ft ²	1.836 in ²
Configuration S ₈	83.5 ft ²	1.203 in ²

DATA REDUCTION (Concluded)

	<u>Full Scale</u>	<u>Model Scale</u>
A_{bSRBN}		
Configuration S ₁ thru S ₇	108.8 ft ²	1.567 in ²
Configuration S ₈	117.4 ft ²	1.691 in ²
A_{CET}	_____	3.04 in ²
A_{CORB}	_____	2.404 in ²
b	936.68 in	9.367 in
\bar{c}	474.8 in	4.748 in
i_{b_0}	14.75 deg.	14.75 deg.
λ_b	1290.3 in	12.90 in
MRP	976.0 in X _T 0.0 in Y _T 400.0 in Z _T	9.76 in X _T 0.0 in Y _T 4.00 in Z _T
S	2690.0 ft ²	38.736 in ²
X _{G3}	_____	14.40 in X ₀
Y _{G1}	_____	1.44 in Y ₀
Y _{G2}	_____	1.94 in Y ₀
X _{WRC}	1542.0 in X ₀	15.42 in X ₀
Y _{WRC}	106.0 in Y ₀	1.06 in Y ₀

TABLE II.

TEST: UPWT 1088/1119 (I444)		DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 4/7/75								
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)								
		α	β	δ_{ET}	δ_{EP}	δ_R	δ_{SP}		1.6	2.0	2.5	2.86	3.9	4.6			
RH8001	T4 S7	A	0	—	—	—	—	6	2	42	65	66	69	73			
02	↓	O	B	—	—	—	—	5	3	43		68	70	74			
03	ϕ_2 T4 S7	A	0	0	0	0	0	6	30	10	109	110	114	118			
04	↓	O	B	0	0	0	0	5	8	13		111	117	121			
05	↓	A	4	0	0	0	0	5	7	12		112	115	117			
06	↓	A	-4	0	0	0	0	5	6	11		113	116	120			
07	ϕ_2 T2 S7	A	0	0	0	0	0	2	14	15							
08	ϕ_2 T4 S6	A	0	0	0	0	0	2	16	17							
09	ϕ_2 T4 S3	A	0	0	0	0	0	2	18	19							
10	ϕ_2 T4 S2	A	0	0	0	0	0	4	20	21		51		52			
11	ϕ_2 T4 S1	A	0	0	0	0	0	5	22	23		48	49	50			
12	ϕ_2 T4 S8	A	0	0	0	0	0	4	24	25			138	139			
13	ϕ_3 T4 S7	A	0	0	0	0	0	6	26	27	102	103	105	108			
4	ϕ_2 T4 S7	A	0	8	0	0	0	6	36	35	122	123	124	125			
15		A	0	8	-8	0	0	6	37	38	126	127	128	129			
16		A	0	8	-4	0	0	6	39	40	130	131	132	133			
Y 17	↓	A	0	4	0	0	0	6	28	29	134	135	136	137			
CN	CA	CLM	CPORB	CPOMS	CPTC	CPSRB	CPSEBM	CFET	CNW	CBW	CTW						
Q(PSF)	CY	CYN	CBL	CL	CT	L/D								(BETA)			
														MACH	ALPHA		
TYPE OF DATA	COEFFICIENT SCHEDULES							IDVAR (11)	CLAR (21)	NDV							
α OR β	A = B = $-10^\circ \rightarrow 10^\circ$; $\Delta\alpha$ OR $\Delta\beta = 2^\circ$																
SCHEDULES																	

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TEST RUN NUMBERS

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₈

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (left-hand and right-hand).

MODEL SCALE: 0.010

MODEL DRAWING NO.: VL78-000063, -000062B

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _O	<u>1317.00</u>	<u>13.170</u>
		Y _O	<u>- 96.50 (LH) -</u>	<u>0.965</u>
			<u>96.50 (RH)</u>	<u>0.965</u>
		Z _O	<u>267.50</u>	<u>2.675</u>
		X _T	<u>2058.00</u>	<u>20.580</u>
		Y _T	<u>-125.68 (LH) -</u>	<u>1.257</u>
			<u>125.68 (RH)</u>	<u>1.257</u>
		Z _T	<u>515.5</u>	<u>5.155</u>
	#2	X _O	<u>1317.00</u>	<u>13.170</u>
		Y _O	<u>- 96.50 (LH) -</u>	<u>0.965</u>
			<u>96.50 (RH)</u>	<u>0.965</u>
		Z _O	<u>267.50</u>	<u>2.675</u>
		X _T	<u>1872.0</u>	<u>18.720</u>
		Y _T	<u>-125.68 (LH) -</u>	<u>1.257</u>
			<u>125.68 (RH)</u>	<u>1.257</u>
		Z _T	<u>504.5</u>	<u>5.045</u>
Diameter, In.	#1		<u>11.5</u>	<u>0.115</u>
	#2		<u>15.5</u>	<u>0.155</u>

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₉

GENERAL DESCRIPTION: Right-hand umbilical fairing to ET cross member
attach structure (1 member)

MODEL SCALE: 0.010

DRAWING NO.: VI78-000062B Martin Marietta 82600207000

DIMENSIONS:	<u>MEMBER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Umbilical fairing attach point	X _O	<u>1317.00</u>	<u>13.170</u>
	Y _O	<u>66.316</u>	<u>0.663</u>
	Z _O	<u>247.182</u>	<u>2.472</u>
	X _T	<u>2058.683</u>	<u>2.059</u>
	Y _T	<u>66.316</u>	<u>0.663</u>
	Z _T	<u>583.683</u>	<u>5.837</u>
ET attach point	X _O	<u>1317.0</u>	<u>13.170</u>
	Y _O	<u>- 12.0</u>	<u>- 0.120</u>
	Z _O	<u>60.75</u>	<u>0.608</u>
	X _T	<u>2058.00</u>	<u>20.580</u>
	Y _T	<u>- 12.00</u>	<u>- 0.120</u>
	Z _T	<u>568.25</u>	<u>5.683</u>
Diameter, In.		<u>4.5</u>	<u>0.045</u>

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TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₀

GENERAL DESCRIPTION: Forward SPB to FT attach structure (LH and RH)

MODEL SCALE: 0.010

MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000066, Martin Marietta 82600204300

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
Attach point	X ₀	<u>985.675</u>	<u>9.857</u>
	Y ₀	<u>-172.50 (LH)</u>	<u>-1.725</u>
		<u>172.50 (RH)</u>	<u>1.725</u>
	Z ₀	<u>0.0</u>	<u>0.0</u>
	X ₅	<u>142.675</u>	<u>1.427</u>
	Y ₅	<u>80.00 (LH)</u>	<u>0.800</u>
		_____ (RH)	_____
	Z ₅	<u>0.0</u>	<u>0.0</u>
	X ₀	<u>244.675</u>	<u>2.447</u>
		<u>-184.5 (LH)</u>	<u>-1.845</u>
	Y ₀	<u>184.5 (RH)</u>	<u>1.845</u>
		Z ₀	<u>0.0</u>
Diameter, In.	X	_____	_____
	Y	_____ (LH)	_____
		_____ (RH)	_____
	Z	_____	_____
	#1	_____	_____
	#2	_____	_____

TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₁

GENERAL DESCRIPTION: Rear FT to SRR attach structure (LH & RH) - 3 members

MODEL SCALE: 0.010

MODEL DRAWING: _____

DRAWING NO.: VL78-000063, -000062B -000066

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE	
	#1	X _T	<u>2058.00</u>	<u>20.580</u>
		Y _T	<u>- 171.50 (LH)</u>	<u>- 1.715</u>
			<u>171.50 (RH)</u>	<u>1.715</u>
		Z _T	<u>457.00</u>	<u>4.570</u>
		X _c	<u>1511.00</u>	<u>15.110</u>
		Y _s	<u>53.24</u>	<u>0.532</u>
		Z _c	<u>57.00</u>	<u>0.570</u>
	#2	X _T	<u>2058.00</u>	<u>20.580</u>
		Y _T	<u>- 163.85</u>	<u>- 1.639</u>
		Z _T	<u>449.81</u>	<u>4.498</u>
		X _s	<u>1511.00</u>	<u>15.110</u>
		Y _s	<u>76.56</u>	<u>0.766</u>
		Z _s	<u>15.73</u>	<u>0.157</u>
	#3	X _T	<u>2058.00</u>	<u>20.580</u>
		Y _T	<u>-161.72</u>	<u>-1.617</u>
Z _T		<u>343.00</u>	<u>3.430</u>	
X _s		<u>1511.00</u>	<u>15.110</u>	
Y _s		<u>53.24</u>	<u>0.532</u>	
Z _s		<u>- 57.00</u>	<u>- 0.570</u>	
Diameter of members, In.:	#1	_____	_____	
	#2	_____	_____	
	#3	_____	_____	

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TABLE III (CONT'D)

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₂

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.010

DRAWING NO.: VL78-000062B Martin Marietta #260020914

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
	#1	X _O <u>388.15</u>	<u>3.882</u>
		Y _O <u>0.0</u>	<u>0.0</u>
	(Attach point on Orbiter, Z _T =614)	Z _O <u>LWR ML</u>	<u>LWR ML</u>
		X _T <u>1129.9</u>	<u>11.299</u>
		Y _T <u>46.50</u>	<u>0.465</u>
	(Attach point on Tank)	Z _T <u>562.58</u>	<u>5.626</u>
	#2	X _O <u>388.15</u>	<u>3.882</u>
		Y _O <u>0.0</u>	<u>0.0</u>
		Z _O <u>LWR ML</u>	<u>LWR ML</u>
		X _T <u>1129.9</u>	<u>11.299</u>
		Y _T <u>- 46.50</u>	<u>- 0.465</u>
		Z _T <u>562.58</u>	<u>5.626</u>
Diameter, In.	#1	<u>6.0</u>	<u>0.060</u>
	#2	<u></u>	<u></u>

TABLE III (CONT'D)

MODEL COMPONENT : BODY - B26

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

1. NOTE: B₂₆ is identical to B₂₄ except underside of fuselage has been repaired to accept W₁₁₆.

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER : VL70-000143B, -000200, --000205, --006089, -000145, VL70-000140A -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta $X_0=235$), In.	1293.3	12.933
Length (IML: Fwd Sta $X_0=238$), In.	1290.3	12.903
Max Width (@ $X_0 = 1528.3$), In.	264.0	2.640
Max Depth (@ $X_0 = 1464$) In.	250.0	2.500
Fineness Ratio	0.264	0.264
Area - Ft ²		
Max. Cross-Sectional	340.88	0.0034
Planform		
Wetted		
Base		

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TABLE III (CONT'D)

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage

P. 26

MODEL SCALE: 0.010 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER : VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (@X ₀ =434.643 -- 578) In.	<u>143.357</u>	<u>1.434</u>
Max Width (@ X ₀ = 513.127) In.	<u>152.412</u>	<u>1.524</u>
Max Depth (@X ₀ = 485.0) In.	<u>25.000</u>	<u>0.250</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT: ELEVON - E₁₁

GENERAL DESCRIPTION: 6.0 In. F.S. wpc machined into F26 elevon. Flipper doors, centerbody pieces, and tipseals are not simulated. (Data are for 1 of 2 sides.)

MODEL SCALE: 0.010

DRAWING NUMBER: Not available.

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.021</u>
Span (equivalent). In.	<u>349.2</u>	<u>3.492</u>
Inb'd equivalent chord . In.	<u>118.0</u>	<u>1.180</u>
Outb'd equivalent chord . In.	<u>55.19</u>	<u>0.552</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Product of area & \bar{c}) (Normal to hingeline). Ft. ³	<u>1587.25</u>	<u>0.0016</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>0.907</u>

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TABLE III (CONT'D)

MODEL COMPONENT : BODY FLAP - F₁₀

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline
located at X₀ = 1532, Z₀ = 287.

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000140C. VL70-35511A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X ₀ =1525.5 to X ₀ =1613) In.	<u>87.50</u>	<u>0.875</u>
Max Width (@ L.E. X ₀ =1525.5) In.	<u>256.00</u>	<u>2.560</u>
Max Depth (@ X ₀ = 1532) In.	<u>19.798</u>	<u>0.198</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional (@ H.L.)	<u>35.196</u>	<u>0.0035</u>
Planform	<u>135.00</u>	<u>0.0135</u>
Wetted	<u> </u>	<u> </u>
Base (X ₀ = 1613)	<u>4.89</u>	<u>0.0005</u>

TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE - FI₁₀

GENERAL DESCRIPTION: L₄ feedline on upper left-hand side of T_{2g}.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	2071.5	20.715
	Y _T	- 70.0	-0.700
	Z _T	573.934	5.739
Trailing edge at:	X _T	2081.8	20.818
	Y _T	-70.0	- 0.700
	Z _T	584.059	5.841
Diameter of line (17.0 I.D.)		18.160	0.182

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TABLE III (CONT'D)

MODEL COMPONENT: FEEDLINE - FL₁₁

GENERAL DESCRIPTION: LO₂ feedline on upper right-hand of T₂₈.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1000.667	10.007
	Y _T	70.00	0.700
	Z _T	150.519	1.505
Trailing edge at:	X _T	2071.5	20.715
	Y _T	70.00	0.700
	Z _T	573.934	5.739
Diameter of line (17.0 I.D.)		18.16	0.1816

TABLE III (CONT'D)

MODEL COMPONENT: FAIRING - FR10

GENERAL DESCRIPTION: Umbilical door fairing between the aft ET/orbiter
attach structure.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta #2600207000

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X_T	2052.0	20.520
Length	193.0	1.930
Width	15.0	0.150

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TABLE III (CONT'D)

MODEL COMPONENT : ORBITAL MANEUVERING SYSTEM (OMS POD) - M₁₄
 GENERAL DESCRIPTION : Preliminary IML version of short OMS pod.
(First used on 0.015 scale model 36-0 for test No. 0A83)
(One of two sides)
 MODEL SCALE: 0.010
 DRAWING NUMBER : VL70-008457

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1311$). In.	<u>254.0</u>	<u>2.540</u>
Max Width (@ $X_0 = 1511$). In.	<u>135.6</u>	<u>1.356</u>
Max Depth (@ $X_0 = 1511$). In.	<u>73.6</u>	<u>0.736</u>
Fineness Ratio	<u>2.541</u>	<u>2.541</u>
Area - ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>54.507</u>	<u>0.0055</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT : OMS POD - M16

GENERAL DESCRIPTION : Configuration 1/00 orbiter OMS pod - short pod.

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-008401, VL70-008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0=1310.5$) In.	<u>258.50</u>	<u>2.585</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.8</u>	<u>1.368</u>
Max Depth (@ $X_0 = 1511$) In.	<u>74.70</u>	<u>0.747</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft ²		
Max. Cross-Sectional	<u>59.864</u>	<u>0.0059</u>
Planform		
Wetted		
Base		

TABLE III (CONT'D)

MODEL COMPONENT: OMS NOZZLES - N28

GENERAL DESCRIPTION: Configuration 1A0A/B orbiter OMS nozzles.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-0001A0A (Location), SS-A00106, Release 5 (Contour)

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	_____	_____
Throat to Exit Plane	_____	_____
Diameter - In.		
Exit	_____	_____
Throat	_____	_____
Inlet	_____	_____
Area - ft ²		
Exit	_____	_____
Throat	_____	_____
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X _o	<u>1518.0.</u>	<u>15.180</u>
Y _o	<u>- 88.0</u>	<u>- 0.880</u>
Z _o	<u>492.0</u>	<u>4.920</u>
Right Upper Nozzles		
X _o	<u>1518.00</u>	<u>15.180</u>
Y _o	<u>88.0</u>	<u>0.880</u>
Z _o	<u>492.00</u>	<u>4.920</u>
Null Position - Deg.		
Left Upper Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right Lower Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

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TABLE III (CONT'D)

MODEL COMPONENT: BSRM NOZZLE - N₈₆

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000066

DIMENSIONS:	FULL SCALE	MODEL SCALE
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit (I.D.)	144.29	1.443
Exit (O.D.)	146.79	1.468
Throat		
Inlet		
Area - ft ²		
Exit	113.5533	1.136
Throat		
Max cross-sectional (I.D.)		
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X ₀	1902.6	19.026
Y ₀	-250.50	-2.505
Z ₀	400.0	4.00
Right Lower Nozzles		
X ₀	1902.6	19.026
Y ₀	250.50	2.505
Z ₀	400.0	4.00
Null Position - Deg.	0.0	0.0
Left Upper Nozzle		
Pitch	+ 8	+ 8
Yaw		
Right Lower Nozzle		
Pitch	+ 8	+ 8
Yaw		

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TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₁

GENERAL DESCRIPTION: Electrical tunnel fairing on top of each SRB.

MODEL SCALE: 0.010

DRAWING NO.: NONE

DIMENSIONS (DATA FOR 1 OF 2):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X _B	467.00	4.670
Centerline of tunnel Y _B	0.0	0.0
Trailing edge at X _B	1820.00	18.200
Height	3.00	0.030
Width	6.00	0.060
L.F., Deg.	72	72

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₂ |

GENERAL DESCRIPTION: SRB/T attach ring.

MODEL SCALE: 0.010

DRAWING NO.: VL77-000036A

DIMENSIONS (DATA FOR 1 OF 2):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Centerline at X	1515.00	15.150
Width	10.00	0.100
Height	10.00	0.100

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₃

GENERAL DESCRIPTION: Separation rocket fairing on each SRB nozzle shroud located 30 deg. inboard from top centerline.

MODEL SCALE: 0.010

DRAWING NO.: VL77-000036A

DIMENSIONS (DATA FOR 1 OF 2 SIDES)	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at X _B	1796.0	17.960
Trailing edge at X _B	1889.0	18.890

Radial location is 30 deg. inboard from top centerline.

TABLE III (CONT'D)

MODEL COMPONENT: SRB PROTUBERANCE - PS₄

GENERAL DESCRIPTION: Aft structural ring. Ring stiffener located at aft end of solid rocket booster.

MODEL SCALE: 0.010

DRAWING NO.: None.

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.	8.0	0.080
Width, In.	6.0	0.060
Location of centerline, In. X _B	1833.7	18.337

TABLE III (CONT'D)

MODEL COMPONENT: SRB AFT SEPARATION MOTOR FAIRING - PS5

GENERAL DESCRIPTION: Fairing over aft separation motors on SRB.

Fairing covers four separation motors.

MODEL SCALE: 0.010

DRAWING NO.: SS-A01184

DIMENSIONS	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>278.0</u>	<u>2.78</u>
Max. thickness	<u>14.0</u>	<u>.14</u>
Depth		
from SRB mainbody	<u>49.838</u>	<u>.498</u>
from skirt	<u>19.0</u>	<u>.190</u>
Leading edge of fairing at X ₅	<u>1547.2</u>	<u>15.472</u>
Leading edge sweep angle	<u>75°</u>	<u>75°</u>

TABLE III (CONT'D)

MODEL COMPONENT: TIEDOWN STRUTS - PS₆

GENERAL DESCRIPTION: 4 Tiedown struts on SRB skirt.

MODEL SCALE: 0.010

DRAWING NO.: SS-A01184

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>64.0</u>	<u>.64</u>
Max. thickness	<u>14.0</u>	<u>.14</u>
Max. depth	<u>8.0</u>	<u>.08</u>
Leading edge of fairing at X ₅	<u>1861.2</u>	<u>18.612</u>

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL LINE - PT22

GENERAL DESCRIPTION: Left-hand electrical conduit line on T2g.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062R.

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1084.333	10.843
	Y _T	- 99.591	- 0.996
	Z _T	-139.620	1.396
Trailing edge at:	X _T	2058.000	20.580
	Y _T	- 99.591	-0.996
	Z _T	-139.620	- 1.396
Conduit size		2.0 x 6.0	0.020 x 0.060
Centerline of line located radially at $\theta = 35.5$ deg.			

TABLE III (CONT'D)

MODEL COMPONENT: LO₂ RECIRCULATION LINE - PT₂₃

GENERAL DESCRIPTION: LO₂ recirculation line on right-hand upper side of T₂₈.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	10.407
	Y _T	94.169	0.902
	Z _T	540.934	5.409
Trailing edge at:	X _T	2062.920	20.629
	Y _T	70.000	0.700
	Z _T	573.934	5.739
Diameter of Line		4.0	0.040

Centerline of lines located radially at $\theta = 36^{\circ}45'$
(Right of TDC looking forward)

TABLE III (CONT'D)

MODEL COMPONENT: LH₂ RECIRCULATION LINE - PT₂₄

GENERAL DESCRIPTION: LH₂ recirculation line on T₂₈.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at :	X _T	1040.667	10.407
	Y _T	- 94.169	- 0.942
	Z _T	540.934	5.409
Trailing edge at:	X _T	2062.920	20.629
	Y _T	-70.00	- 0.700
	Z _T	573.934	5.739
Diameter of line		4.0	0.040

Centerline of line located radially at $\theta = 33^{\circ}45'$
 (Left of TDL looking forward).

TABLE III (CONT'D)

MODEL COMPONENT: ELECTRICAL LINE - PT25

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T₂₈ with LH₂ pressure sensor line and LO₂ vent valve actuator line.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1084.333	10.843
	Y _T	99.591	0.996
	Z _T	139.620	1.396
Trailing edge at:	X _T	2058.00	20.580
	Y _T	99.591	0.996
	Z _T	139.620	1.396
Conduit size		2.0 x 6.0	0.020 x 0.060

Centerline of line located radially at $\theta = 35.5^\circ$

TABLE III (CONT'D)

MODEL COMPONENT: LO₂ PRESSURE LINE - PT₂₆

GENERAL DESCRIPTION: LO₂ pressure line on the T₂₈.

MODEL SCALE: 0.010

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	3.607
	Y _T	15.145	0.151
	Z _T	407.718	4.077
Trailing edge at:	X _T	2083.5	20.835
	Y _T	63.25	0.633
	Z _T	609.00	6.090
Line diameter		2.00	0.020

Centerline of line located radially at $\theta = 27$ deg.

TABLE III (CONT'D)

MODEL COMPONENT: RUDDER - R_r

GENERAL DESCRIPTION: Configuration 1400 orbiter rudder (identical to configuration 140A/B rudder).

MODEL SCALE: 0.010

DRAWING NUMBER: VL70-000146B, VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft. ²	<u>100.15</u>	<u>0.0100</u>
Span (equivalent) , In.	<u>201.0</u>	<u>2.010</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>0.916</u>
Outb'd equivalent chord , In.	<u>50.833</u>	<u>0.508</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of area & c)		
Area Moment (Normal to Hingeline) Ft. ³	<u>610.92</u>	<u>0.00061</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>0.732</u>

TABLE III (CONT'D)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - Side
 GENERAL DESCRIPTION : Configuration MCR 500. Data for 1 of 2 sides.

 MODEL SCALE: 0.010
 DRAWING NUMBER : VL77-000066

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	<u>1989.4</u>	<u>19.894</u>
Max Width (Tank dia.) In.	<u>146.0</u>	<u>1.460</u>
Max Length (Aft shroud), In.	<u>192.0</u>	<u>1.920</u>
Fineness Ratio	<u>9.068</u>	<u>9.068</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>201.062</u>	<u>0.0201</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM centerline (Z _T), In.	<u>400.0</u>	<u>4.000</u>
FS of BSRM nose (X _T), In.	<u>743.0</u>	<u>7.430</u>

TABLE III (CONT'D)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION : _____

DRAWING NUMBER : VL72-000143D, VL77-000066

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Includes nozzle), In.	<u>1789.40</u>	<u>17.894</u>
Max Width (Tank dia.), In.	<u>146.00</u>	<u>1.460</u>
Max Depth (Aft shroud Dia.) In.	<u>192.00</u>	<u>1.920</u>
Fineness Ratio	<u>9.3198</u>	<u>9.3198</u>
Area - Ft. ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>201.062</u>	<u>0.020</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
WP of BSRM Centerline (Z _T)	400.0	4.000
FS of BSRM Nose (X _T)	743.0	7.430
BP of BSRM centerline (Y _T)	250.5	2.505

TABLE III (CONT'D)

MODEL COMPONENT : External Tank - T28

GENERAL DESCRIPTION : _____

NOTE: Dimensions are to tank structural OML, TPS not included.

MODEL SCALE: 0.010

DRAWING NUMBER : VL72-000143D, VL78-000063

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length . In.	<u>1844.275</u>	<u>18.443</u>
Max Width Dia. . In.	<u>331.00</u>	<u>3.310</u>
Max Depth	_____	_____
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²	_____	_____
Max. Cross-Sectional	<u>594.678</u>	<u>0.0595</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

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TABLE III (CONT'D)

MODEL COMPONENT:	<u>VERTICAL - V₈</u>	
GENERAL DESCRIPTION:	<u>Configuration 140C orbiter vertical tail</u> <u>(identical to configuration 140A 'B vertical tail)</u>	
MODEL SCALE:	<u>0.010</u>	
DRAWING NUMBER:	<u>VL70-000140C, VL70-000146B</u>	
DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.0413</u>
Span (Theo) - In.	<u>315.72</u>	<u>3.157</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>2.685</u>
Tip (Theo) WP	<u>108.47</u>	<u>1.085</u>
MAC	<u>199.81</u>	<u>1.998</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>14.634</u>
W.P. of .25 MAC	<u>635.52</u>	<u>6.355</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.0</u>	<u>0.020</u>
Void Area	<u>13.17</u>	<u>0.0013</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

TABLE III (CONL'D)

MODEL COMPONENT: WING-W116

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W117, except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.010

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft²

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00 $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)
XXXX-64

Root $\frac{b}{2}$ =

Tip $\frac{b}{2}$ =

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

2690.00	0.2690
936.68	9.367
2.265	2.265
1.177	1.177
0.200	0.200
3.500	3.500
0.500	0.500
3.000	3.000
45.000	45.000
- 10.056	- 10.056
35.209	35.209
689.24	6.892
137.85	1.379
474.81	4.748
1136.83	11.368
290.58	2.906
182.13	1.821
1751.50	0.175
720.68	7.207
2.059	2.059
0.245	0.245
562.09	5.621
137.85	1.379
392.83	3.928
1185.98	11.860
294.30	2.943
251.77	2.718
0.113	0.113
0.120	0.120
113.18	0.0113
500.0	5.00
1024.00	10.240

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

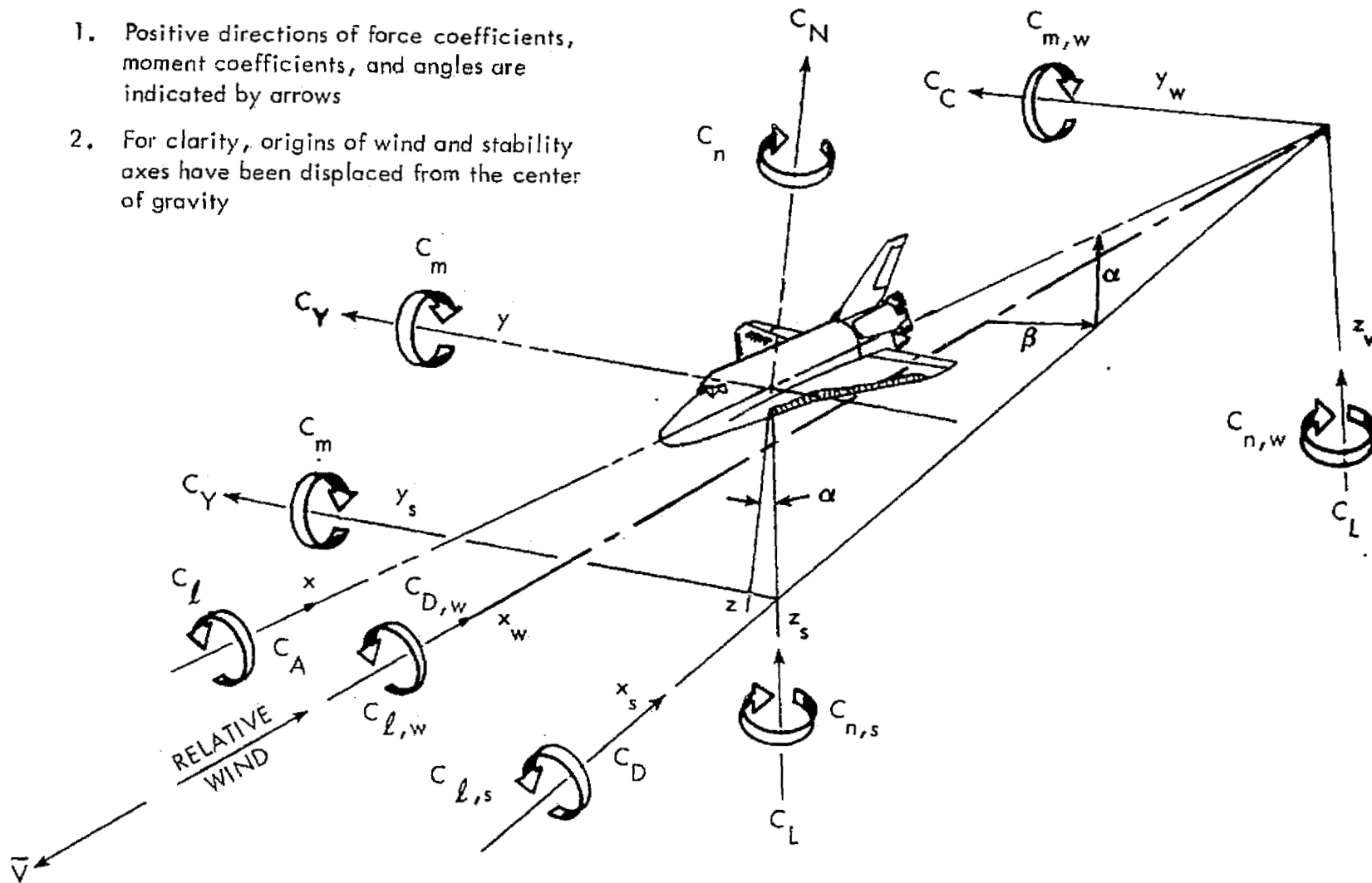
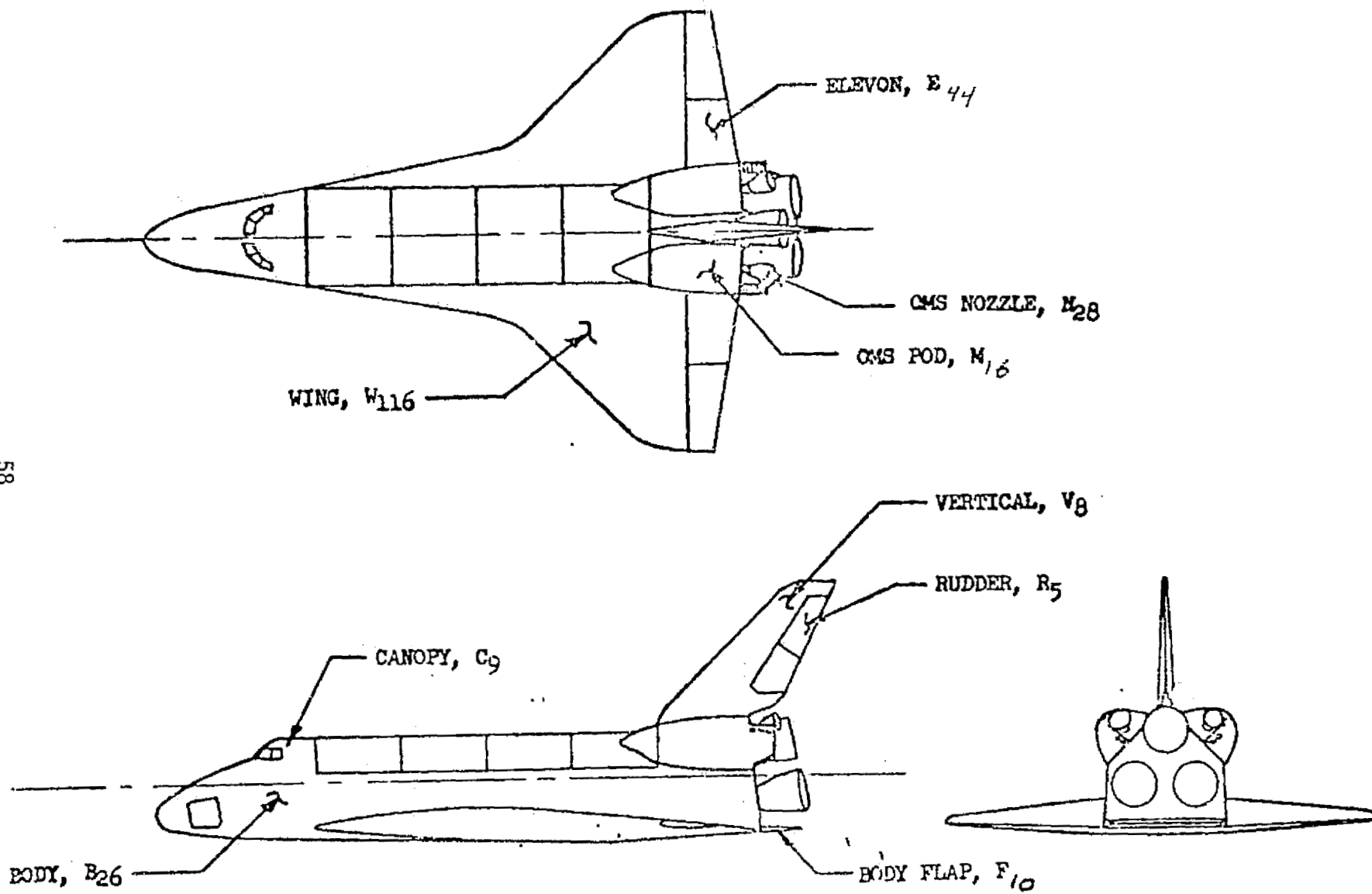
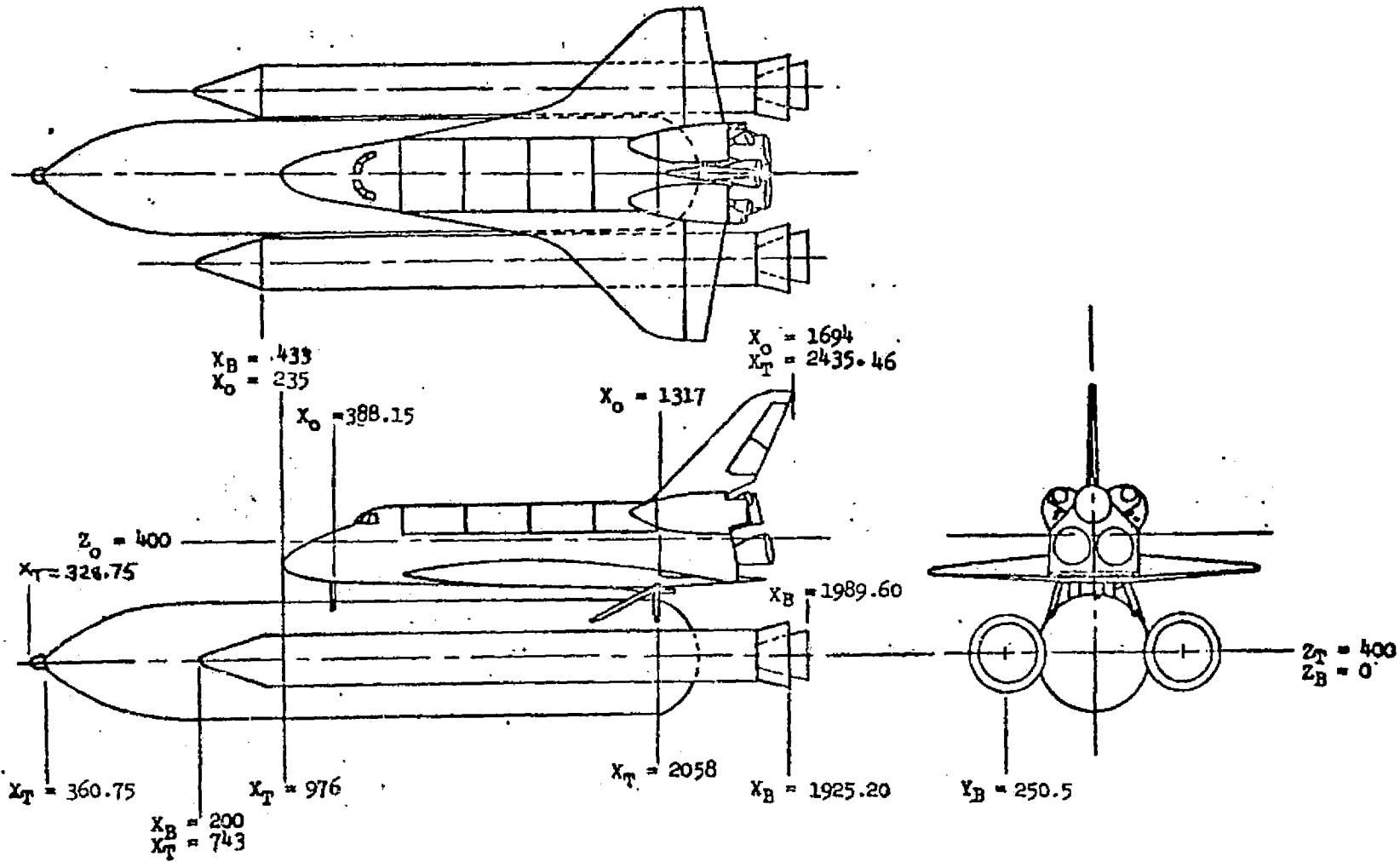


Figure 1. - Axis systems.



a. Orbiter Three View
Figure 2. - Model sketches.

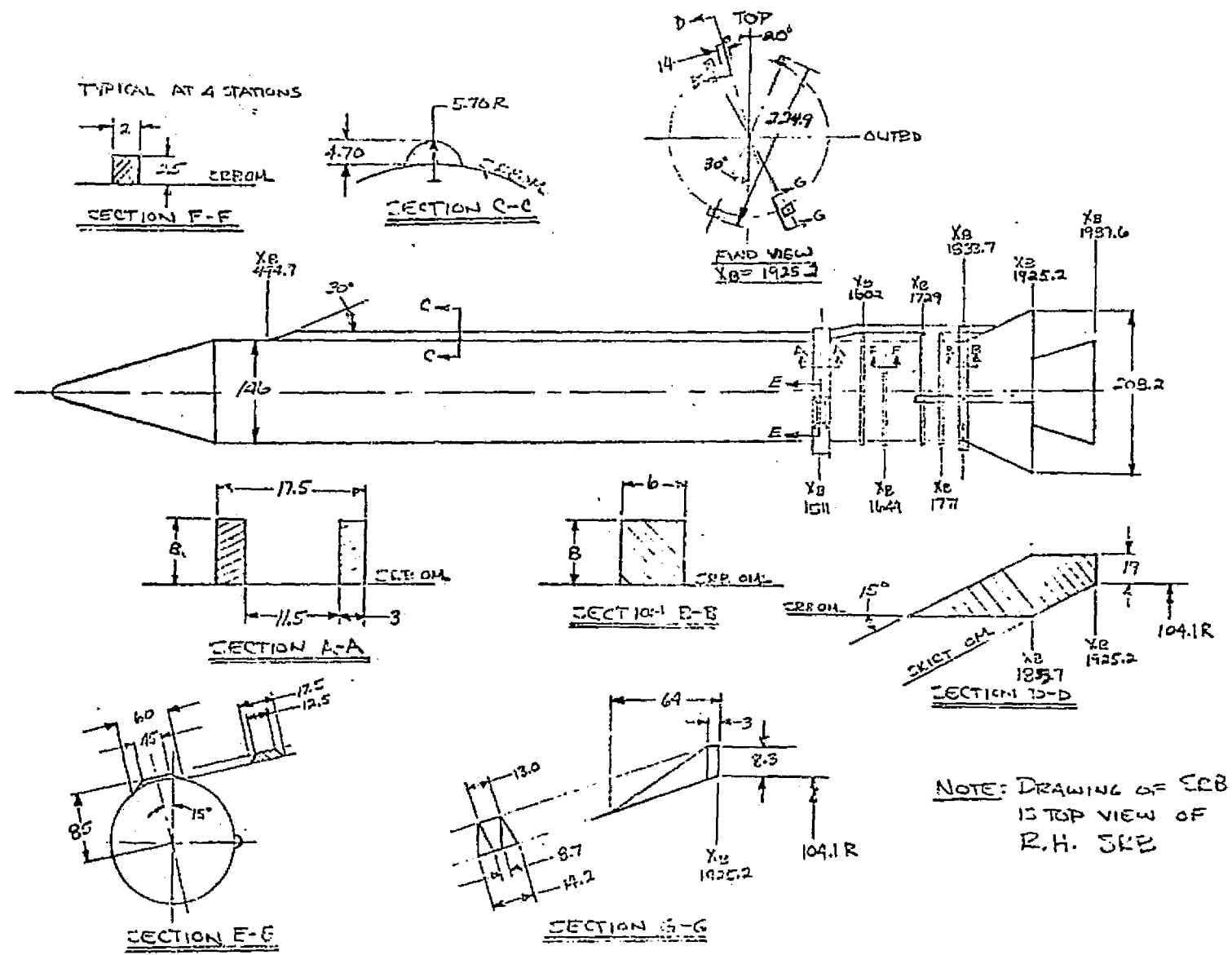


b. Mated Vehicle

Figure 2. - Continued.

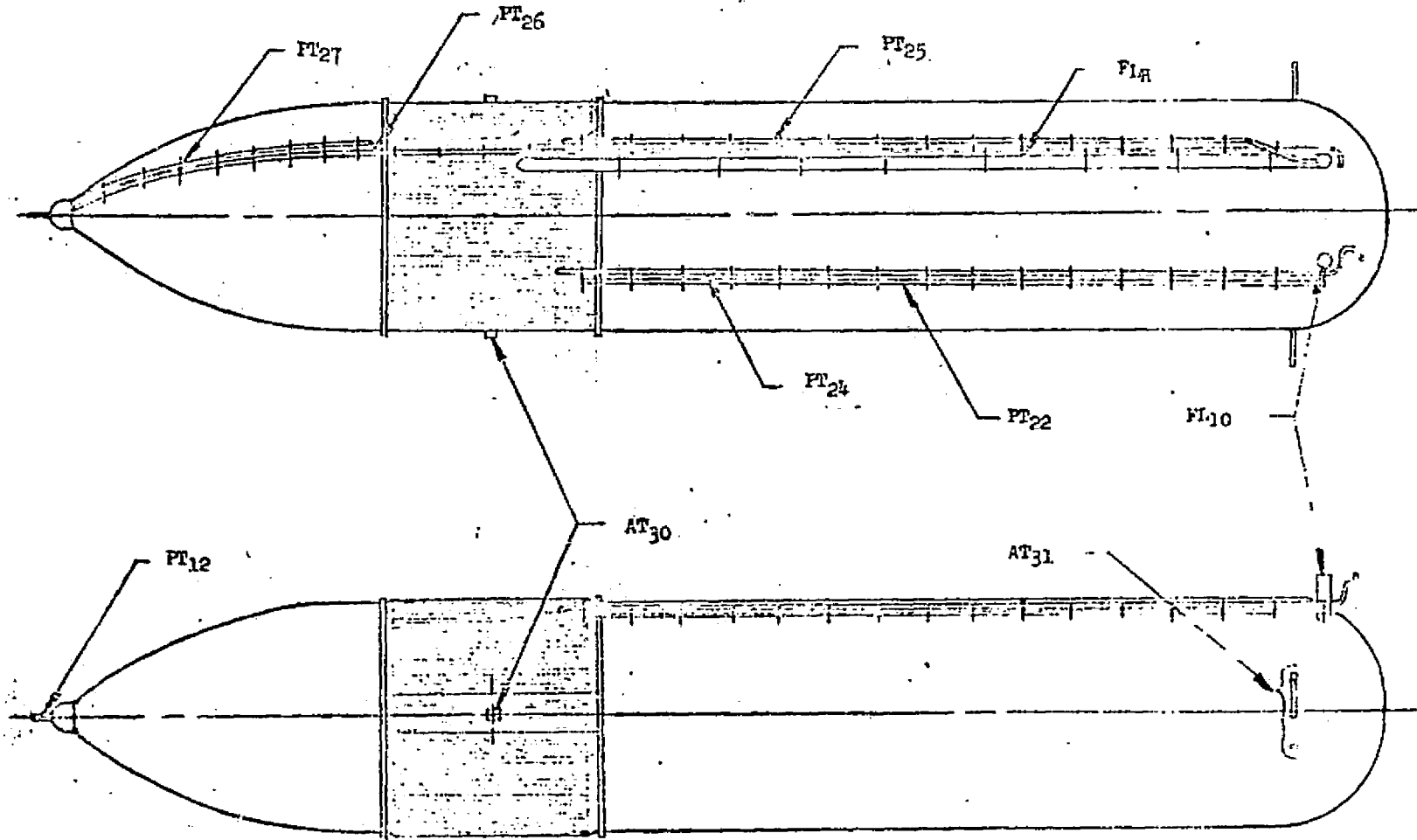
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c. SRB Protuberances

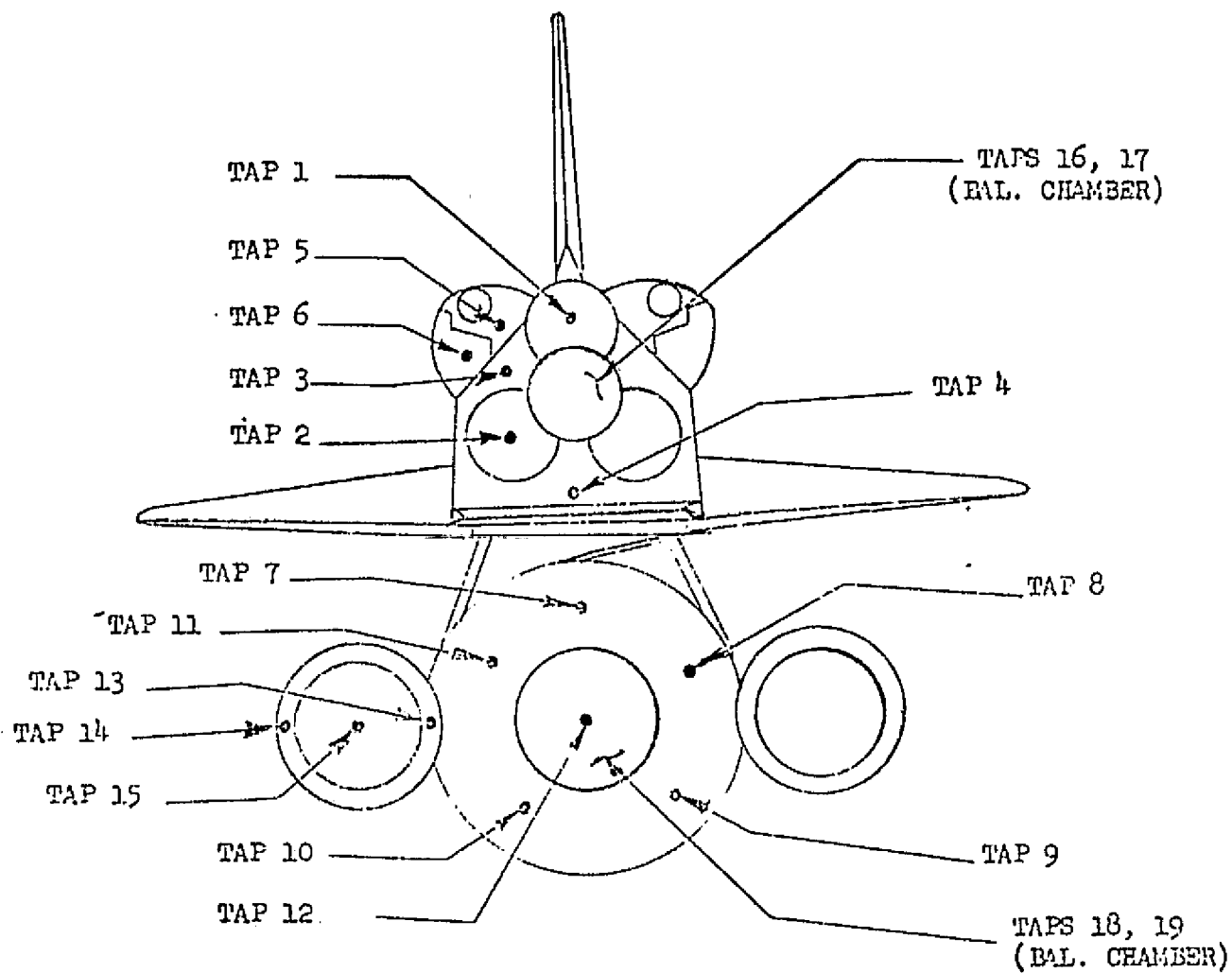
Figure 2. - Continued.



(T28) EXTERNAL TANK PROTUBERANCES

d. (T28) External Tank Protuberances

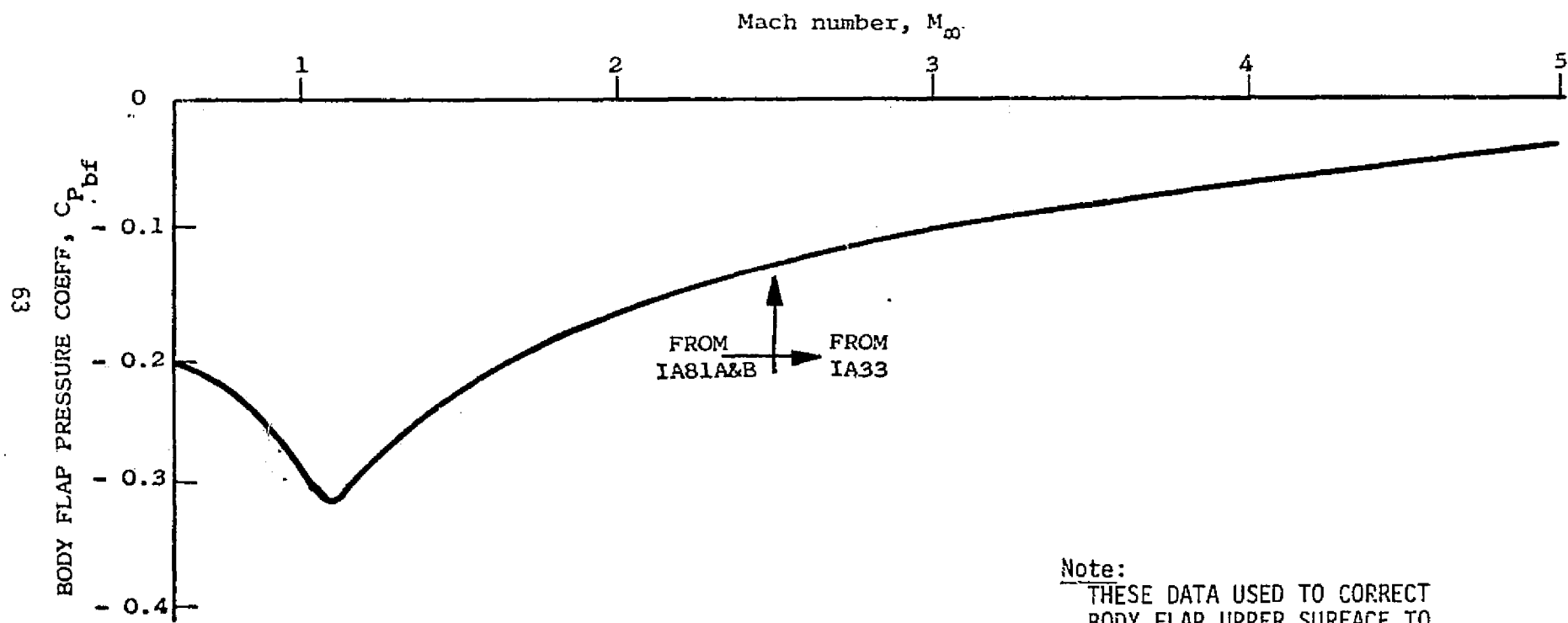
Figure 2. - Continued.



Location	Pressure Tap Numbers	Manifold Number (i)
ORB Base	1, 2, 3, 4	1 = 1
CIS base + ACPS Base	5, 6	2
ET Base	7, 8, 9, 10, 11, 12	3
SRB Base	13, 14	4
SHHX Base	15	5
OKB Cavity	16, 17	6
ET Cavity	18, 19	7

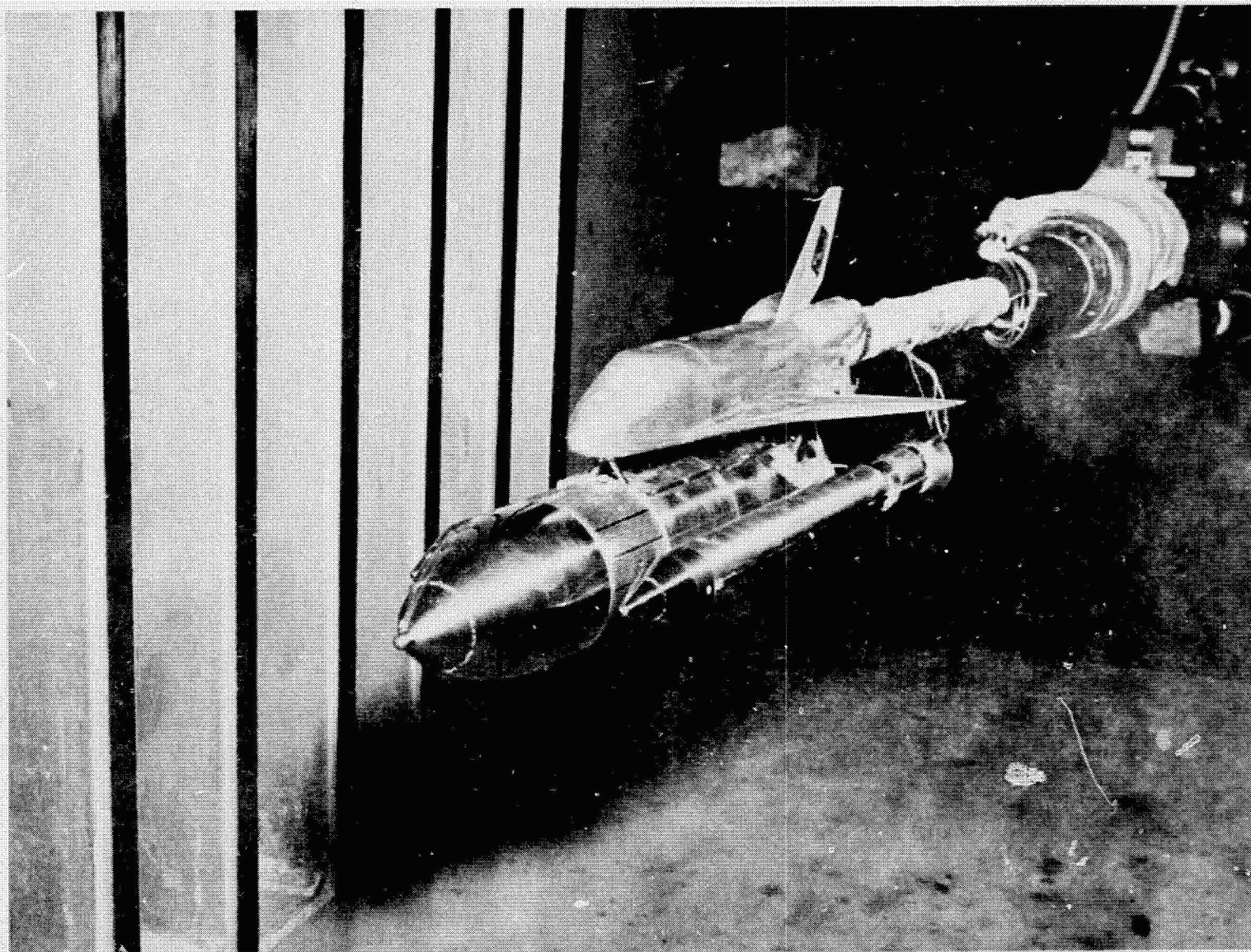
e. Base Pressure Instrumentation

Figure 2. - Continued.



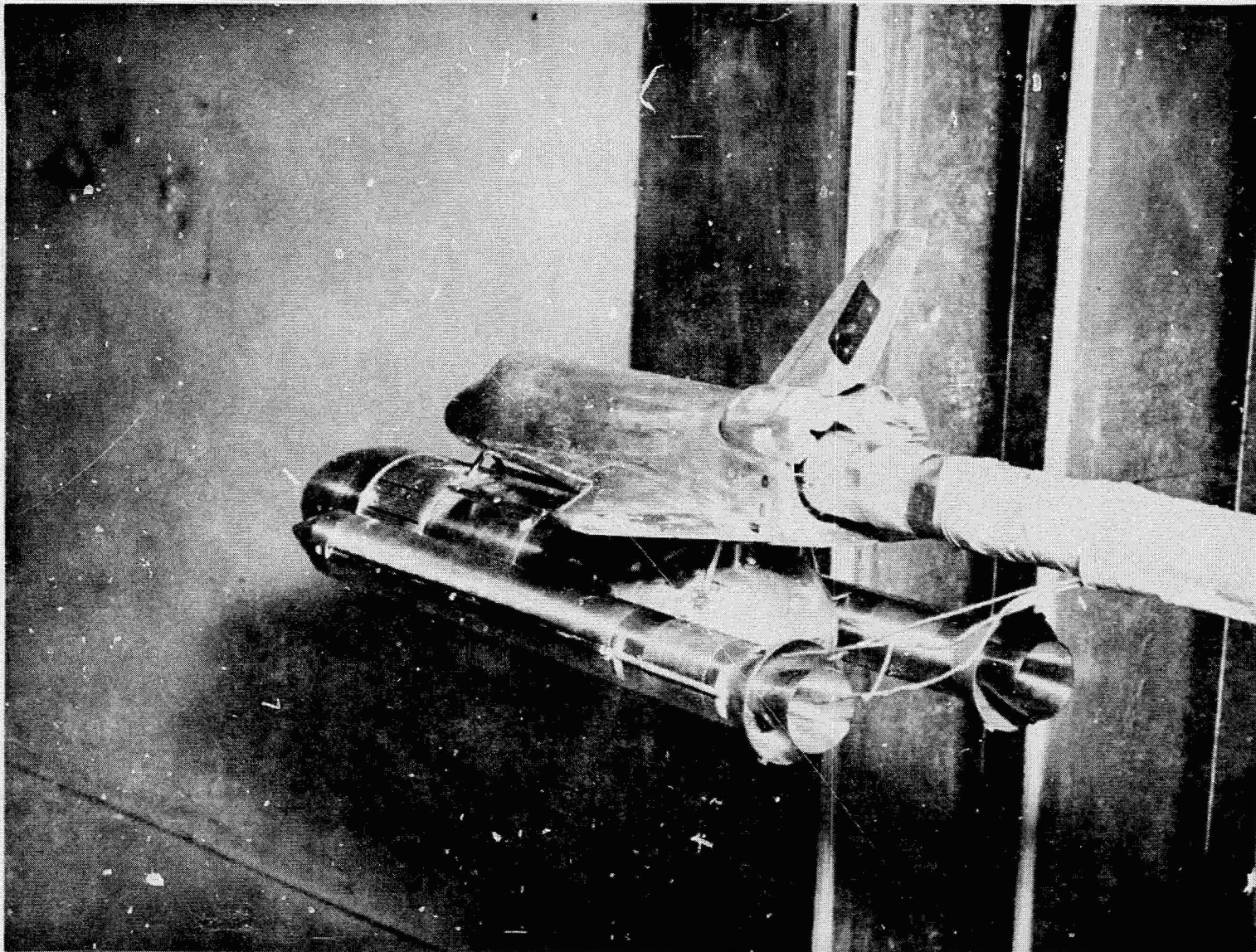
Note:
 THESE DATA USED TO CORRECT
 BODY FLAP UPPER SURFACE TO
 FREESTREAM STATIC PRESSURE
 AS DEFINED IN DATA REDUCTION.

f. Orbiter Body Flap Pressure Coefficients
 Figure 2. - Concluded.



a. Front View

Figure 3. - Model installation photographs.



b. Rear View

Figure 3. - Concluded.

DATA FIGURES

NOTE: Some plotted data figures contain selected data from test IA43, which is documented in DMS-DR-2204.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8020) □	DATA NOT AVAILABLE	.000
(9-8001) ⊗	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(9-8018) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

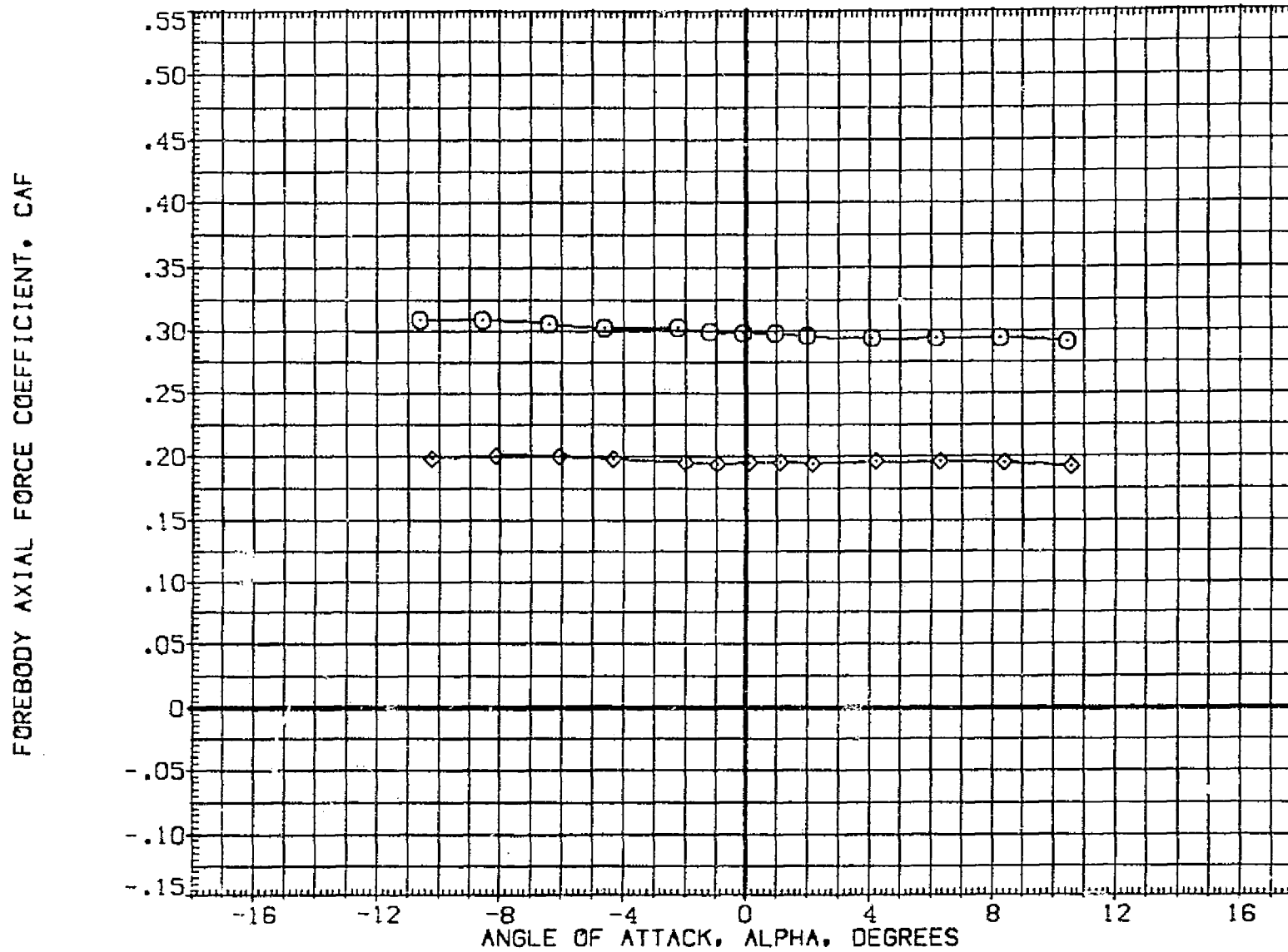


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(B-8020)	DATA NOT AVAILABLE	.000
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

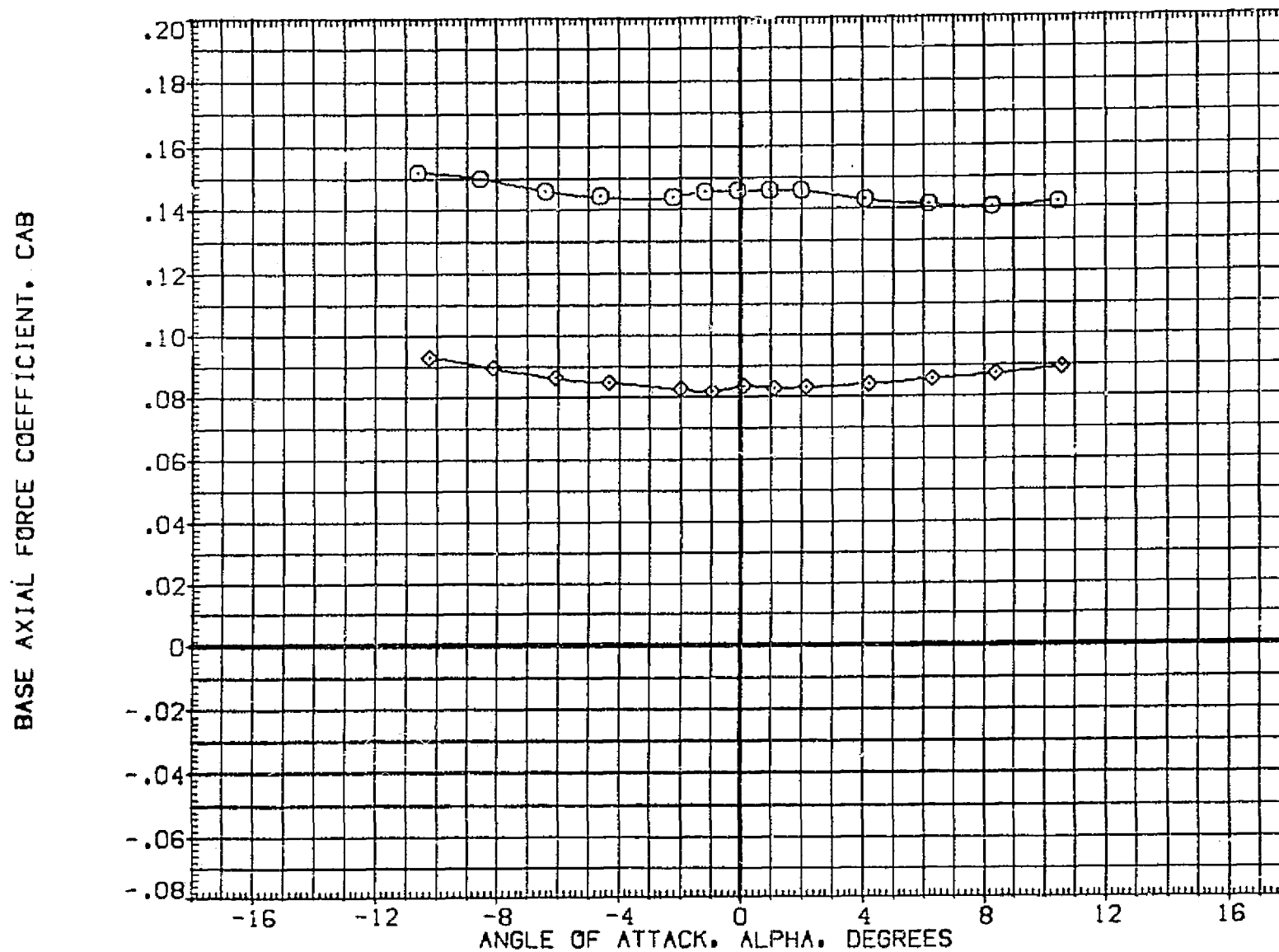


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPYT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8020)	DATA NOT AVAILABLE	.000
(B-8001)	UPYT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

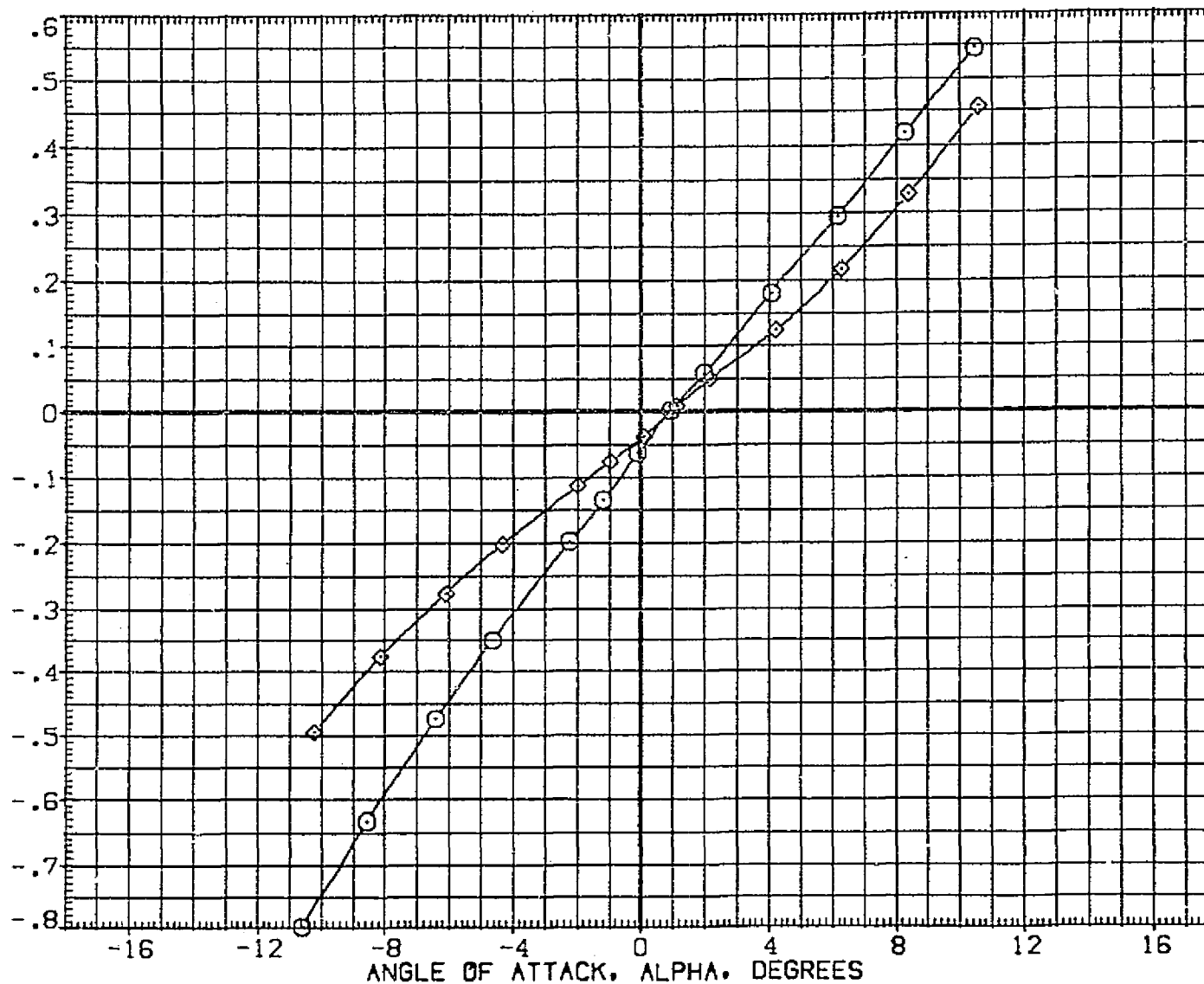


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	□ UPVT 1089/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	⋯ DATA NOT AVAILABLE	.000
(B-8001)	⊗ UPVT 1089/1119 (IA-44) CONFIGURATION	T4/S7 .000
(B-8018)	△ DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

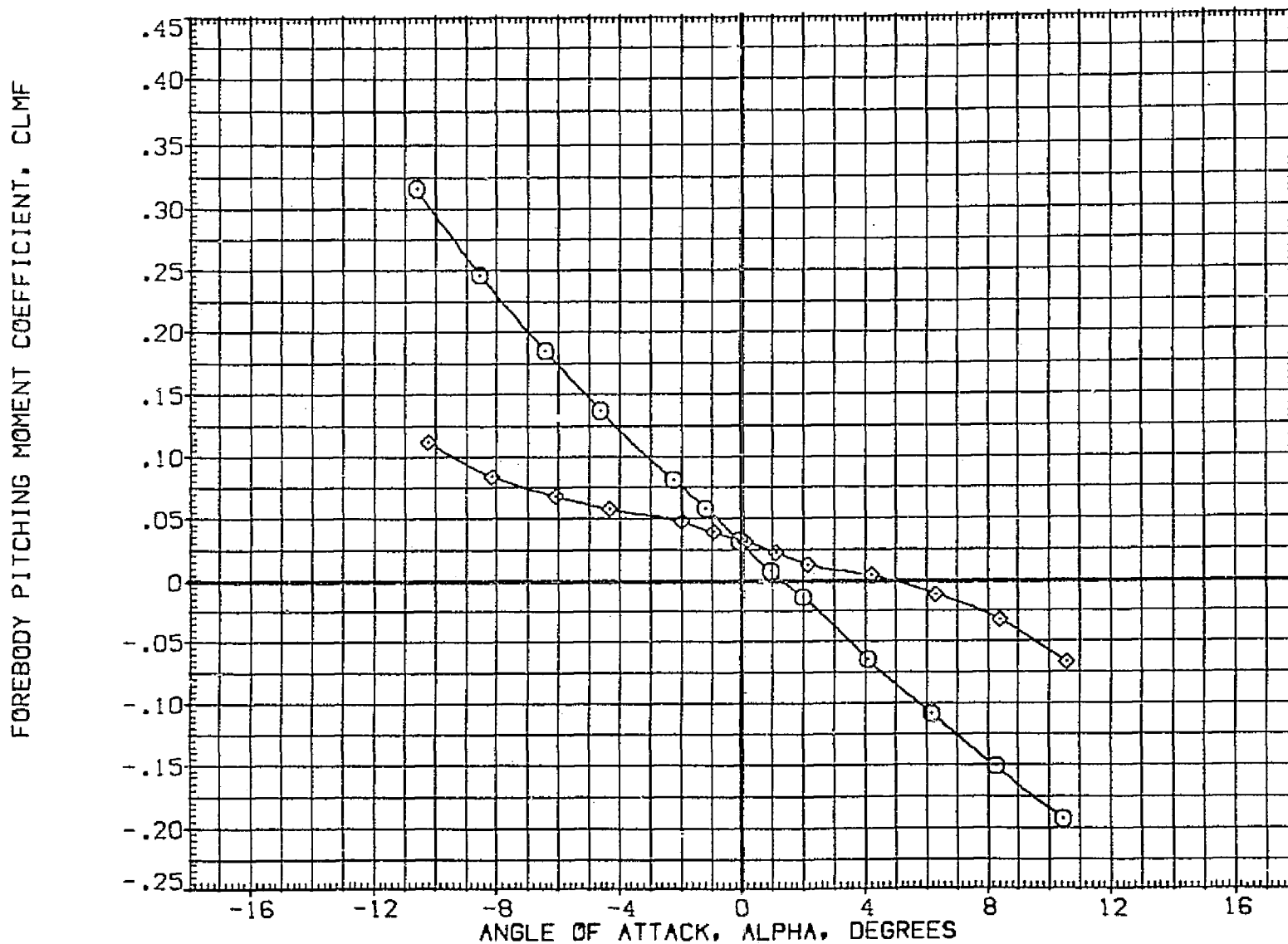


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) □	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8020)	DATA NOT AVAILABLE	.000
(B-8001) ◇	UPVT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8018) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

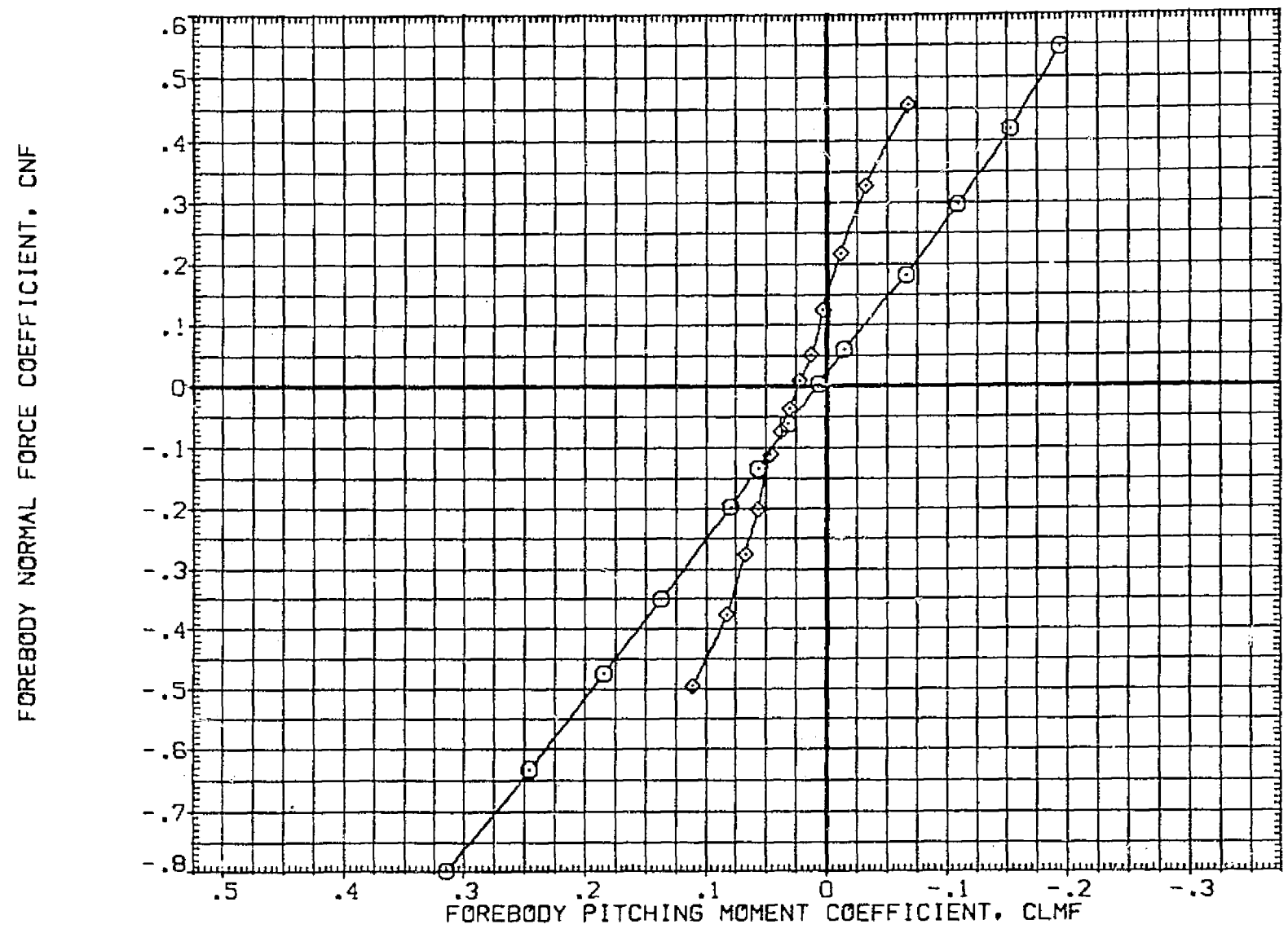


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS
 (A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8020) □	DATA NOT AVAILABLE	.000
(B-8001) ⊗	UPVT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8018) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

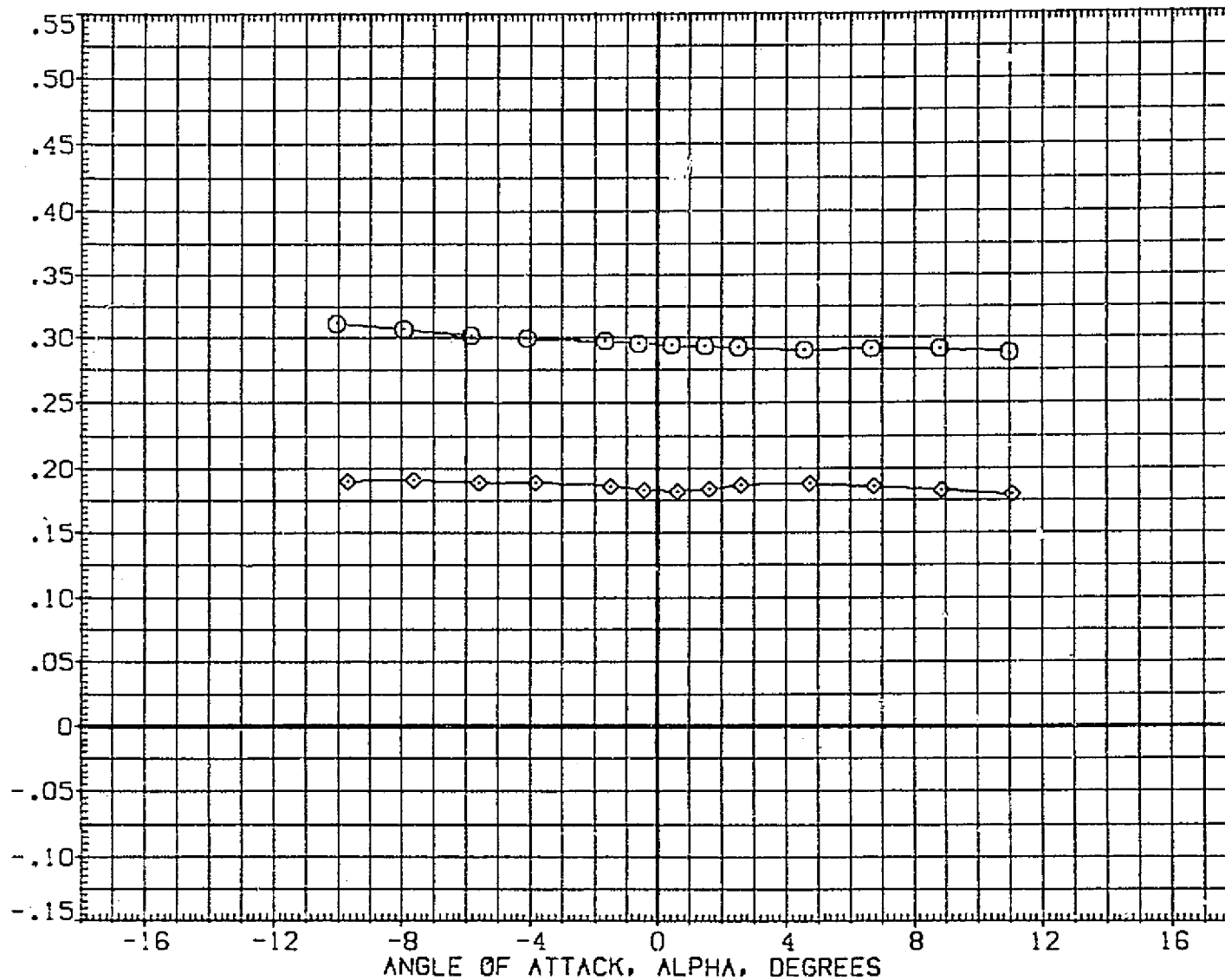


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(B-8020)	DATA NOT AVAILABLE	
(B-8001)	LPWT 1088/1119 (1A-44) CONFIGURATION	T4/S7
(B-8018)	DATA NOT AVAILABLE	

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

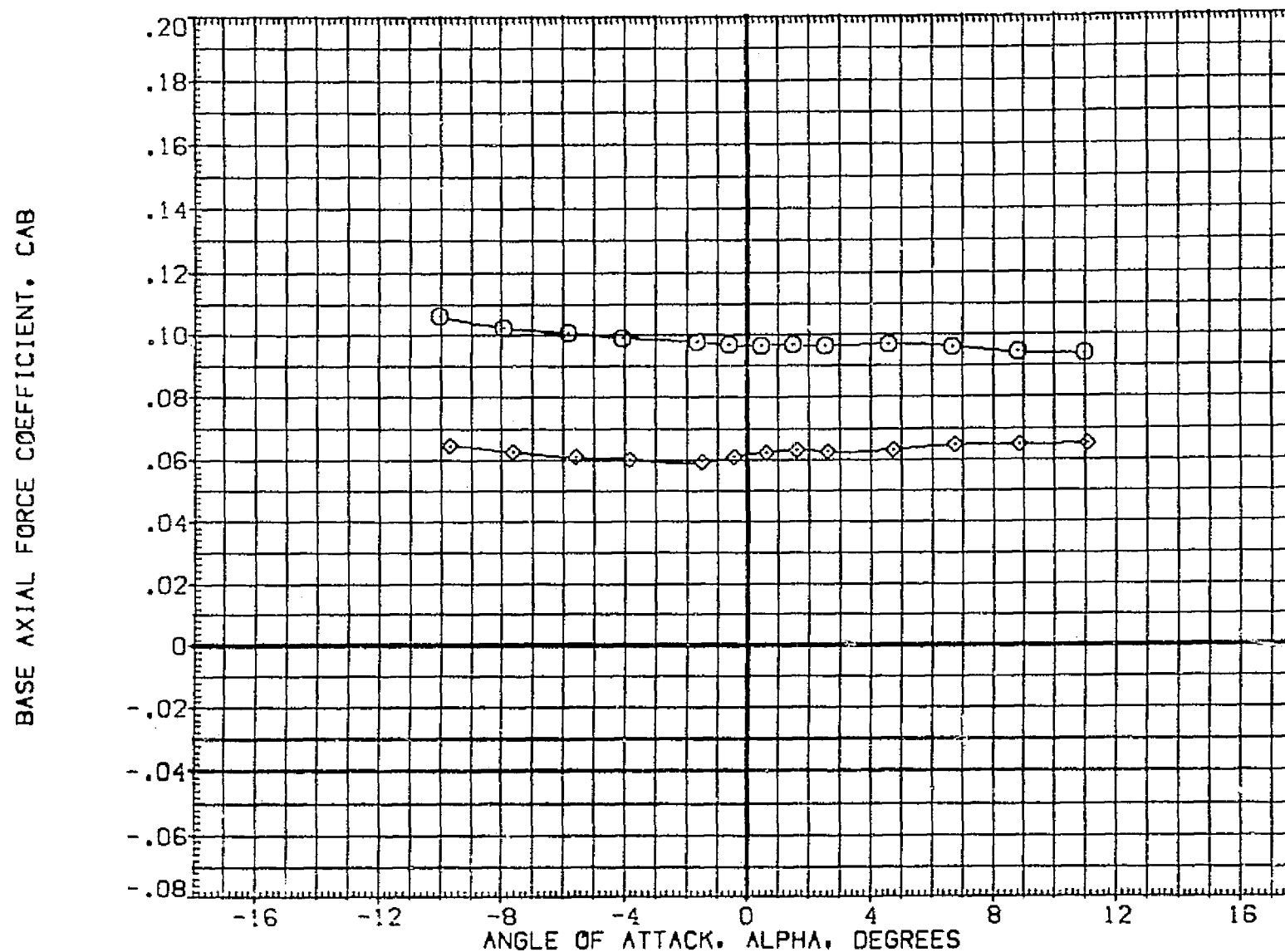


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8020) ○	DATA NOT AVAILABLE	.000
(B-8001) △	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8018) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INC. IN.
BREF	1290.3000	INC. IN.
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

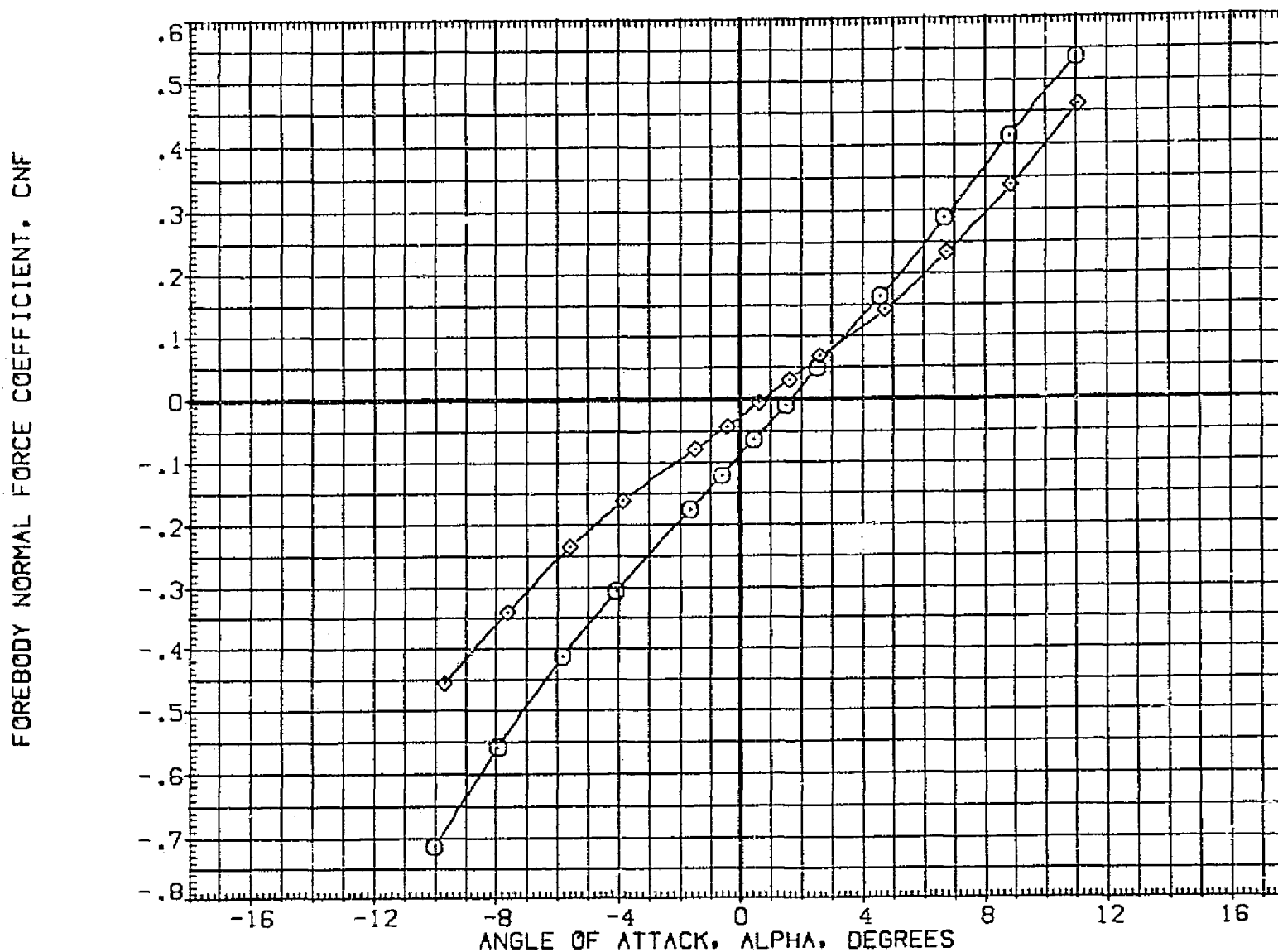


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8020)	DATA NOT AVAILABLE	.000
(B-8031)	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	90. FT.
LREF	1290.3000	INC-ES
BREF	1290.3000	INC-ES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

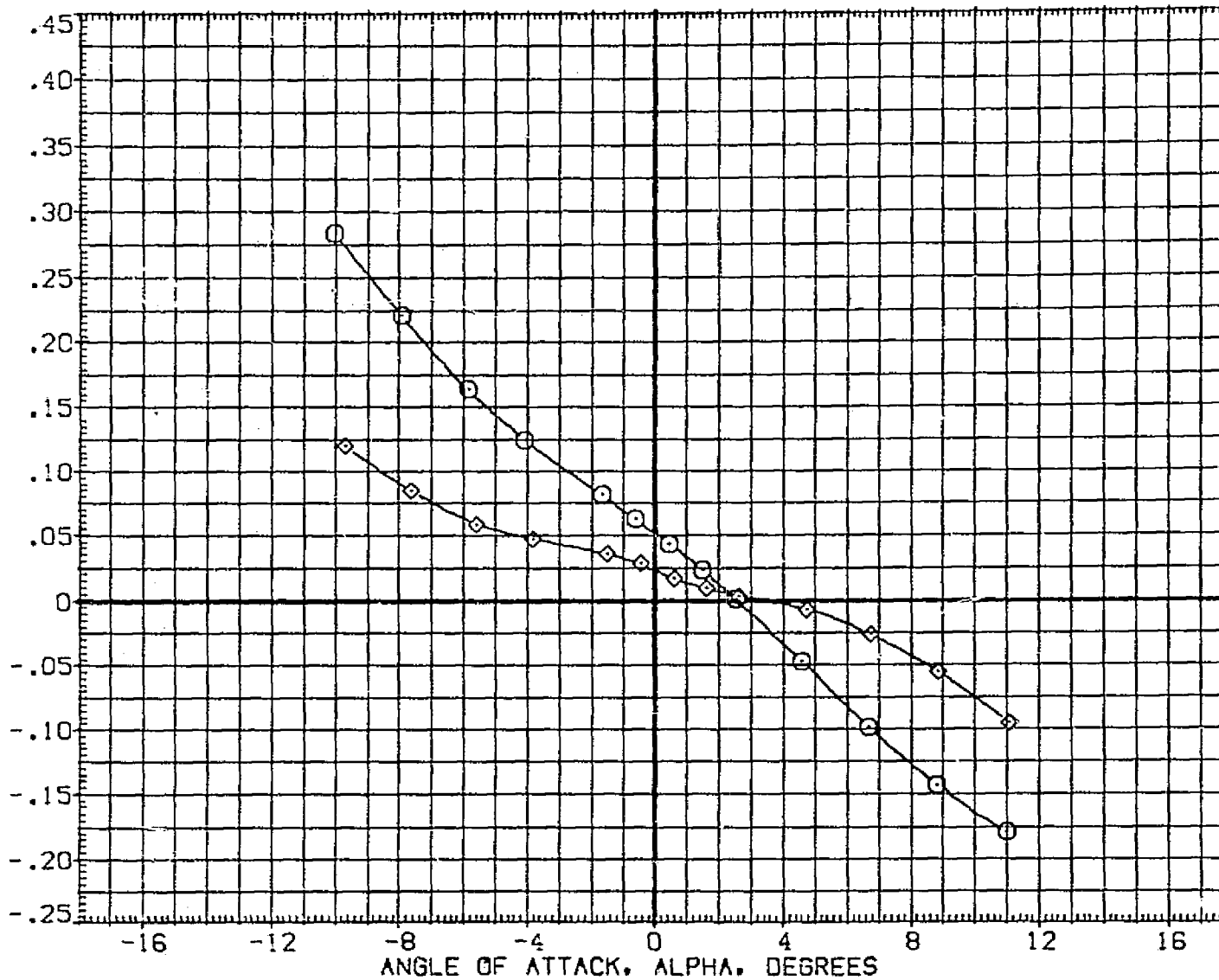


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.00

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
[B-8003] ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	SREF 2690.0000 SQ. FT.
[B-8020] ○	DATA NOT AVAILABLE	.000	LREF 1290.3000 INCHES
[B-8001] ⊗	LPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000	BREF 1290.3000 INCHES
[B-8018] △	DATA NOT AVAILABLE	.000	XMRP 576.0000 IN. XT
			YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

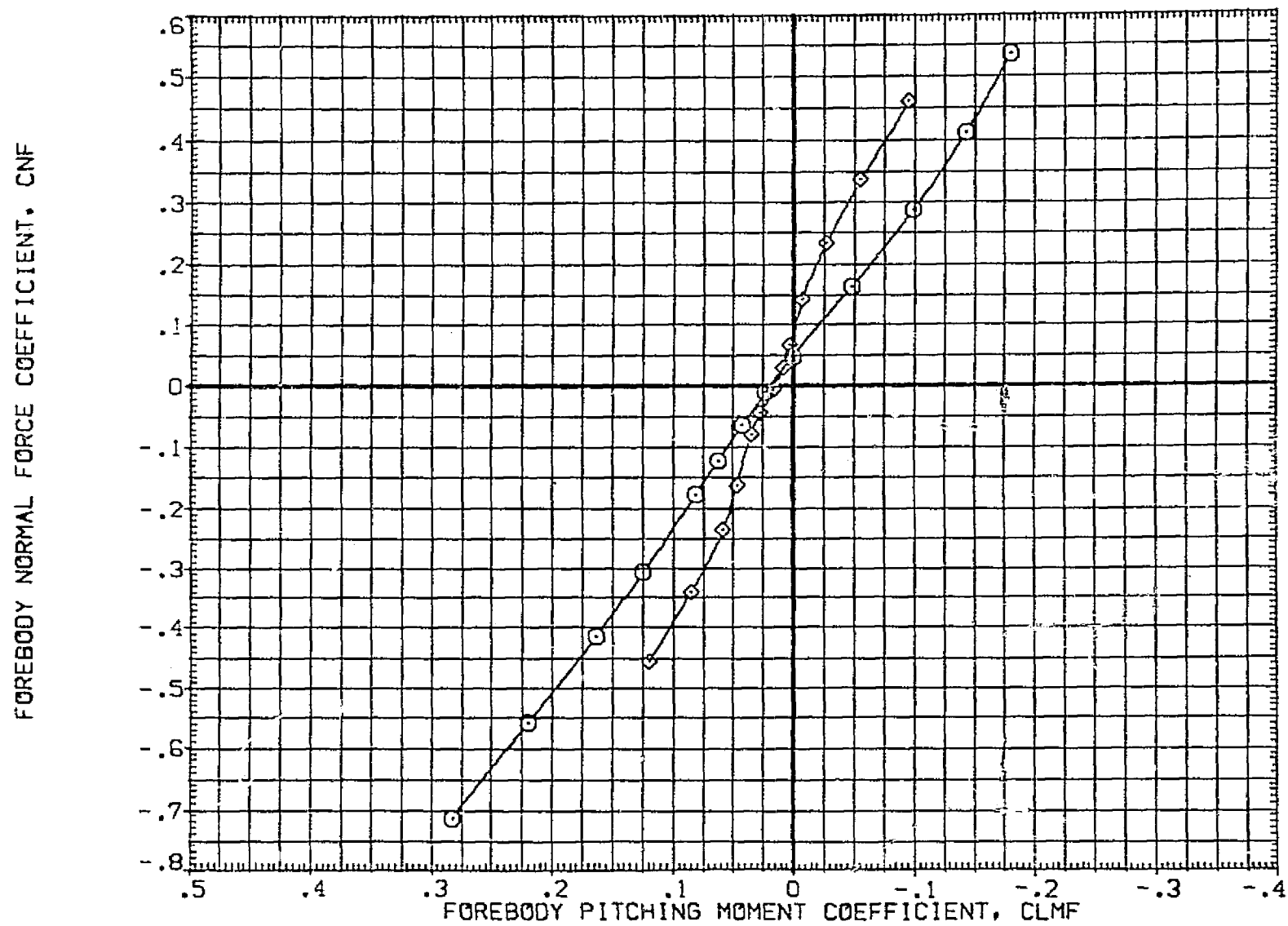


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8001)	UPWT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INC-ES
BREF	1290.3000	INC-ES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

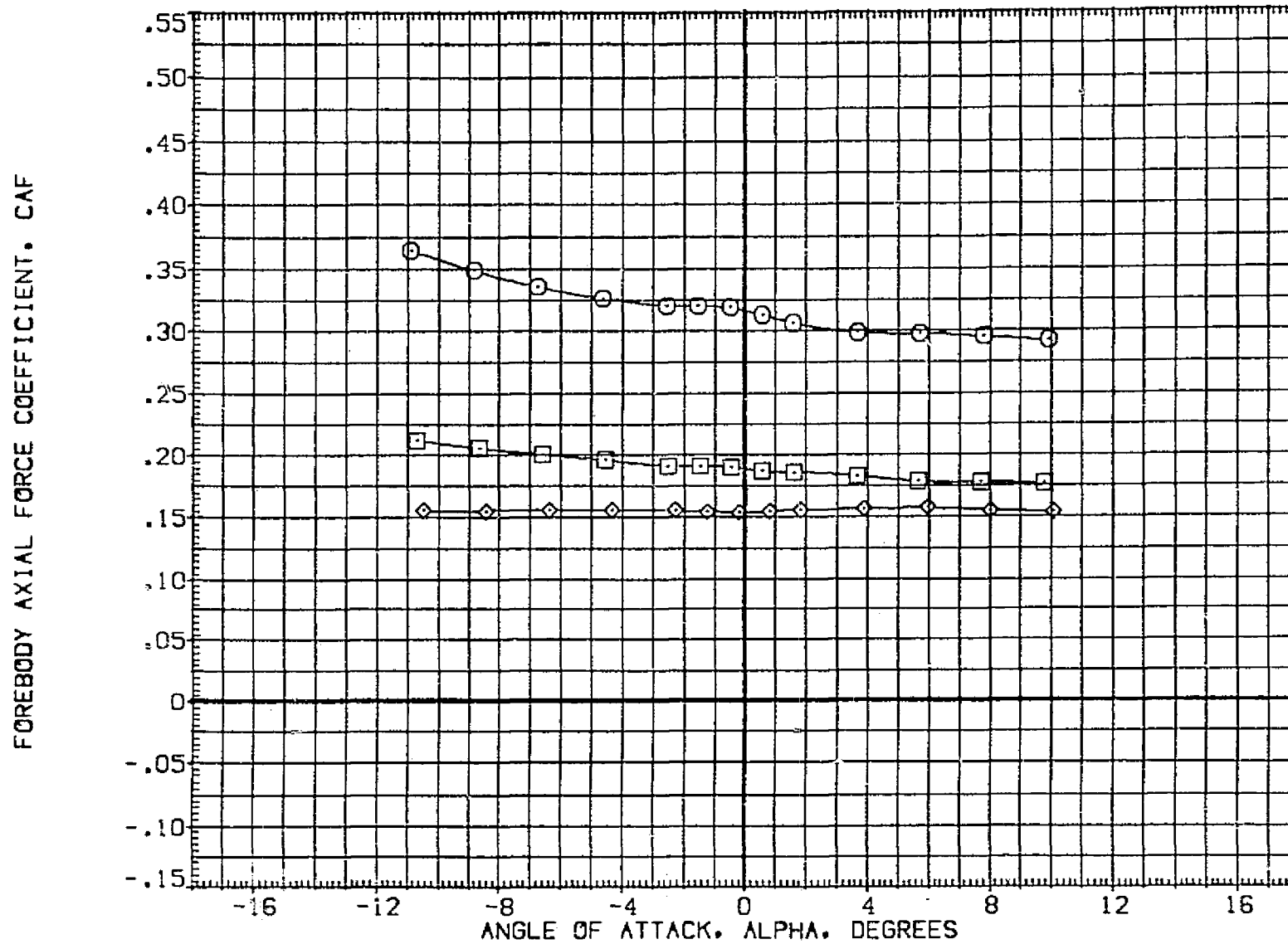


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	SREF	2690.0000 SQ. FT.
(B-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF	1290.3000 INCHES
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	BREF	1290.3000 INCHES
(B-8018)	DATA NOT AVAILABLE		XMRP	976.0000 IN. XT
			YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

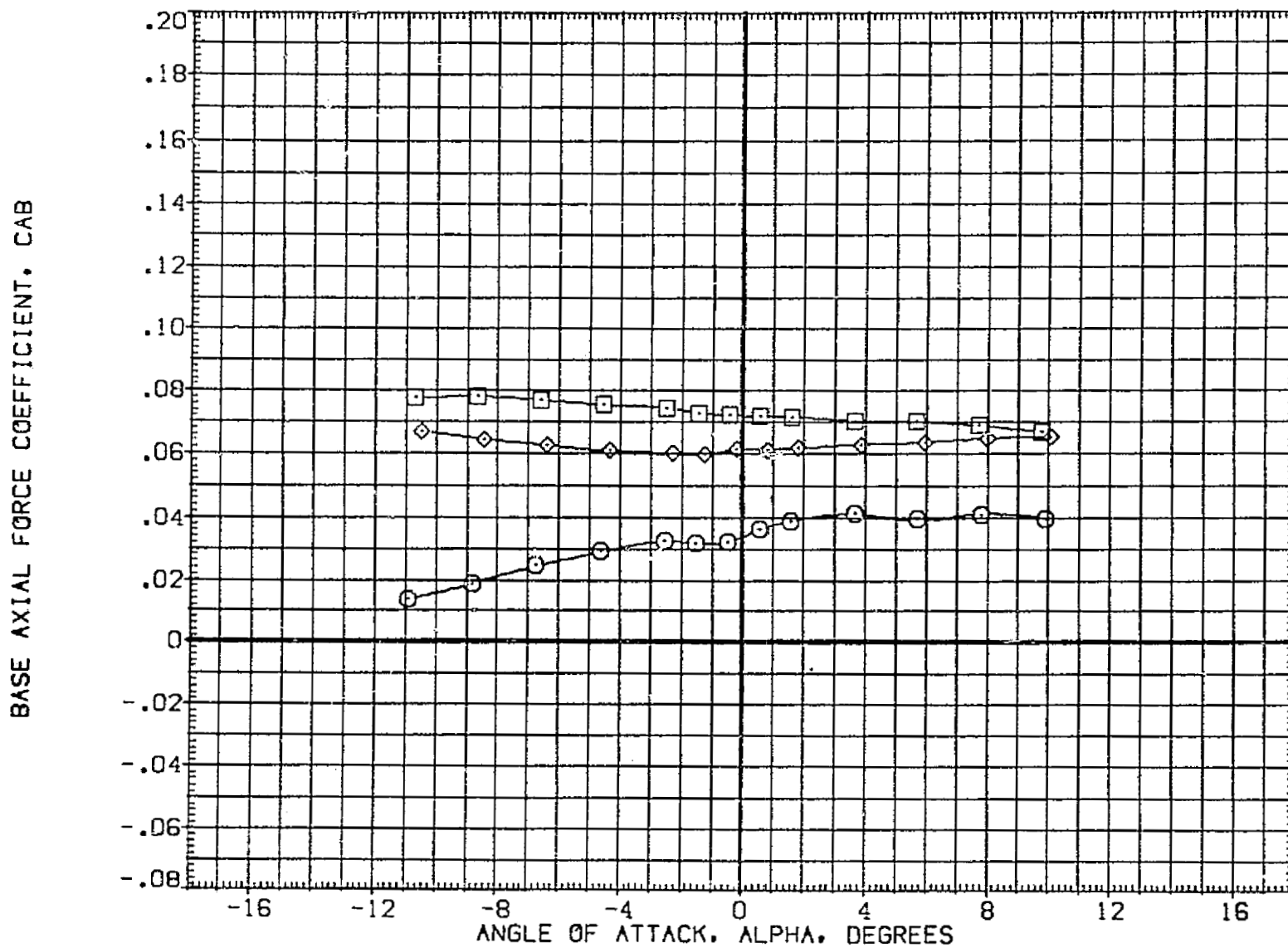


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	576.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

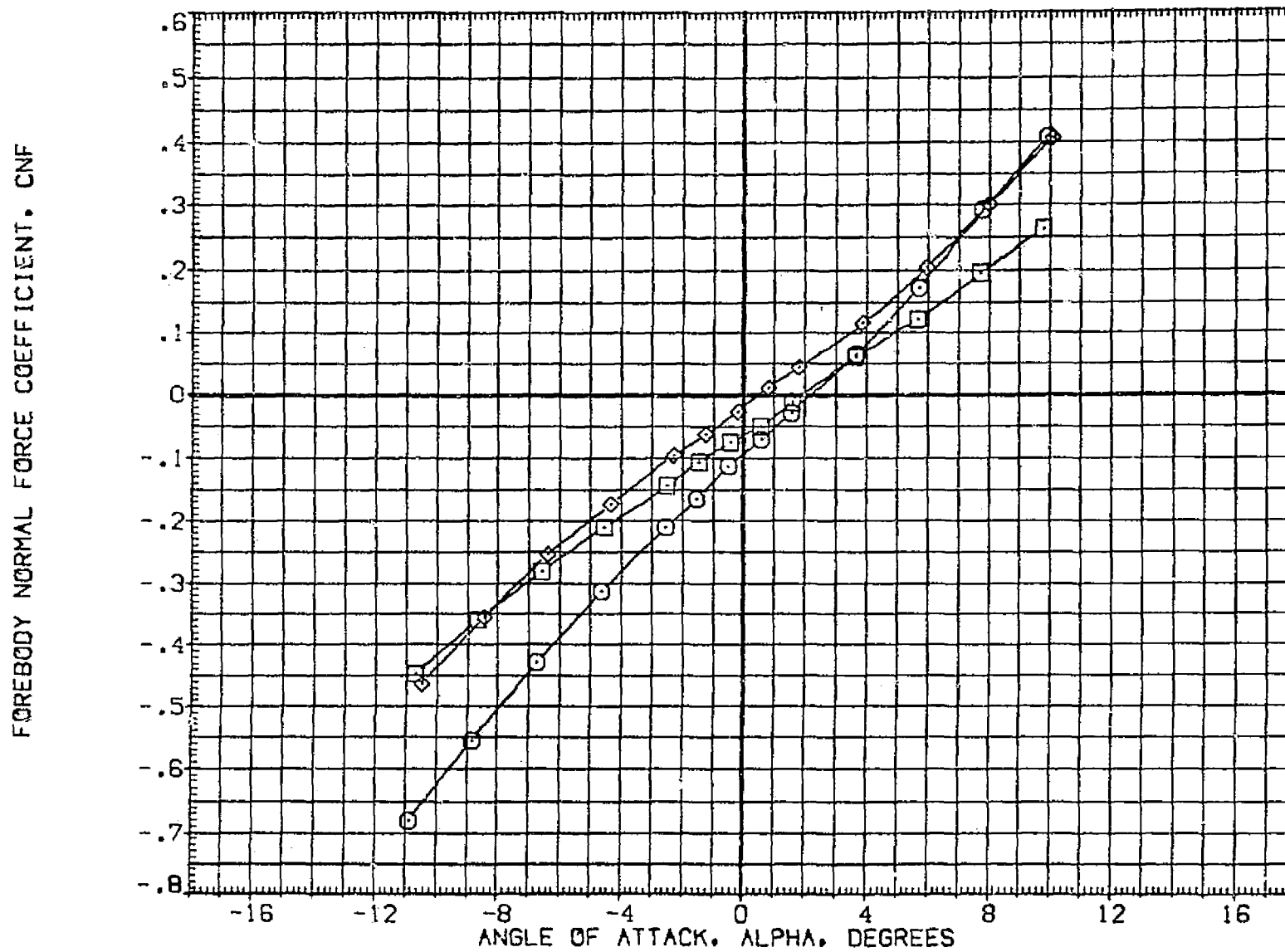


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.50

DATA SET SYMBOL	DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8007)	(IA-44) CONFIGURATION	T4/S7	SREF 2630.0000 SQ.FT.
(B-8020)	(IA-44) CONFIGURATION	S2/T4	LREF 1290.3000 INCHES
(B-8001)	(IA-44) CONFIGURATION	T4/S7	BREF 1290.3000 INCHES
(B-8018)	DATA NOT AVAILABLE		XMRP 976.0000 IN. XT
			YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

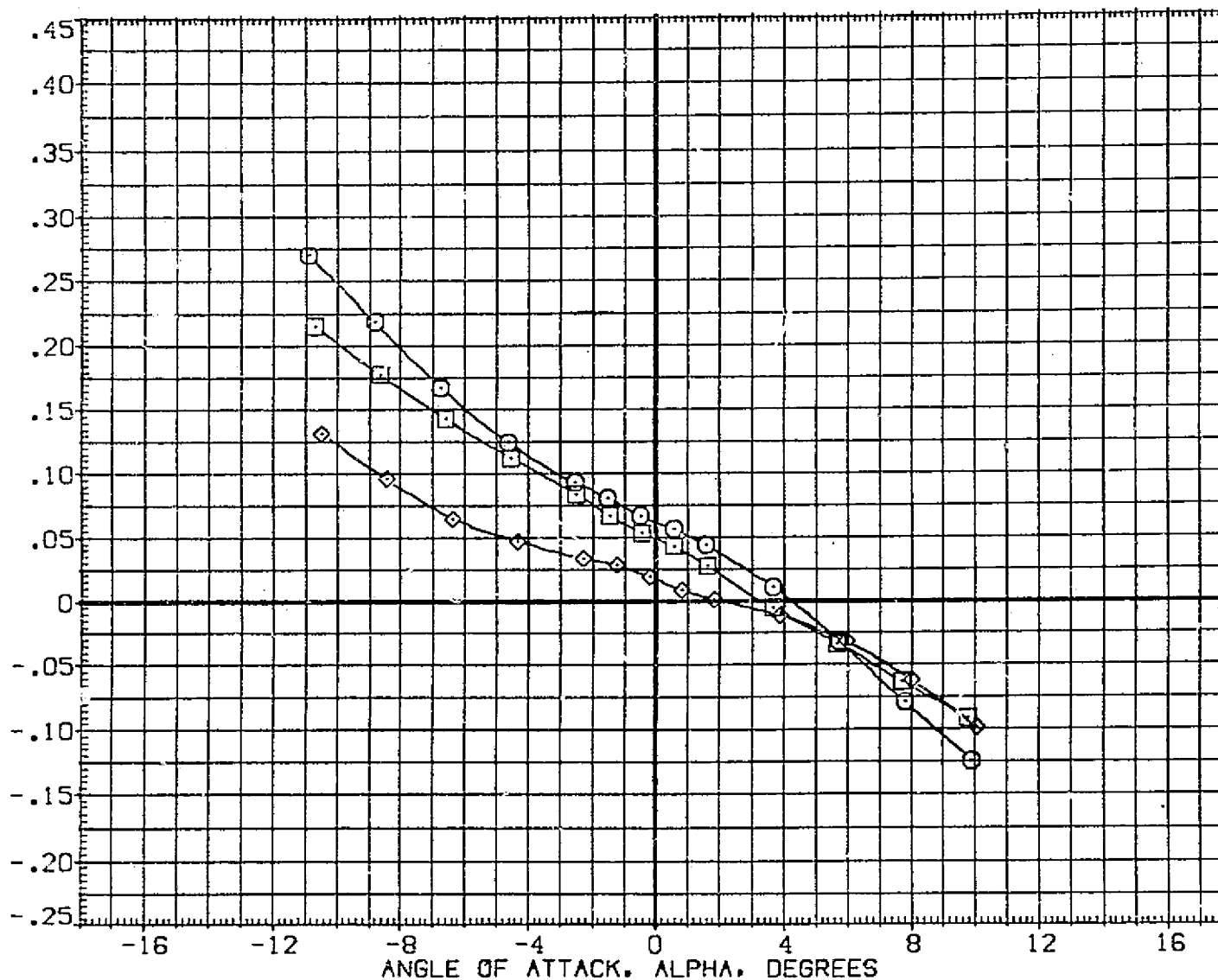


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-0003)	UPVT 1088/1119 (I-34) CONFIGURATION	02/T4/S7 .000
(9-0020)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4 .000
(9-0001)	UPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7 .000
(9-0018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. F1.
LREF	1290.3000	INC-66
BREF	1290.3000	INC-65
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

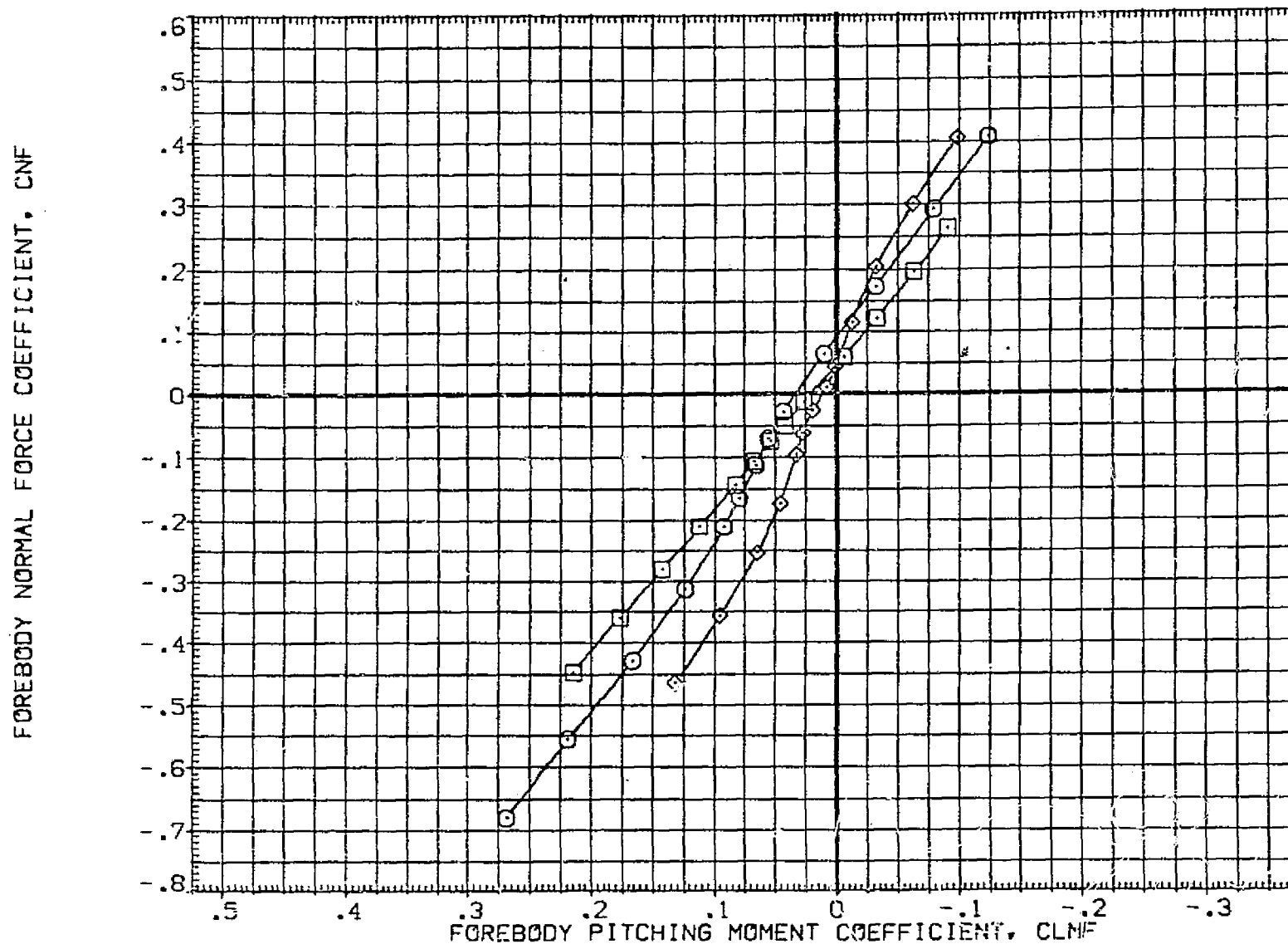


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(9-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(9-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(9-8018)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

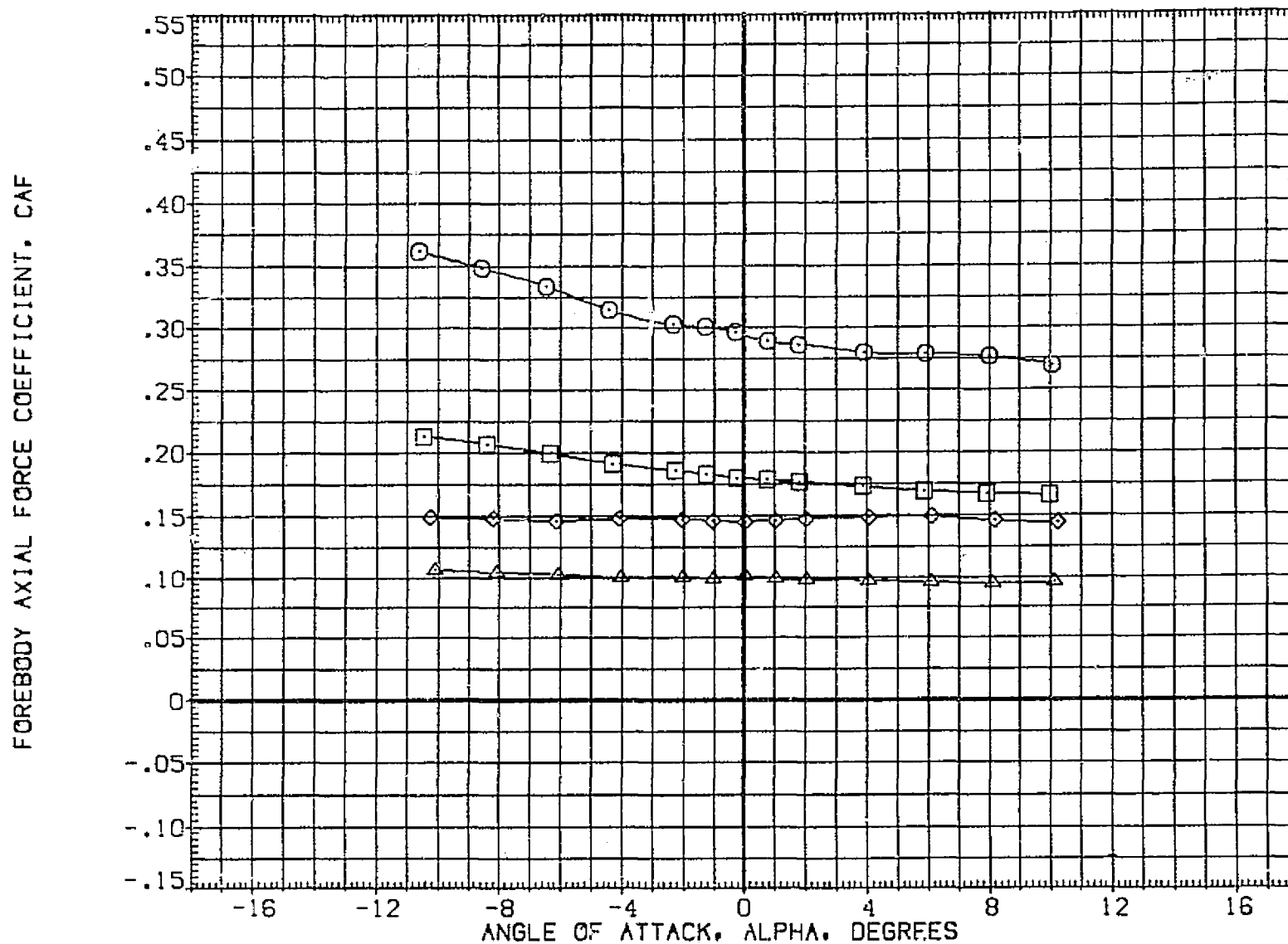


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8001)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8018)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

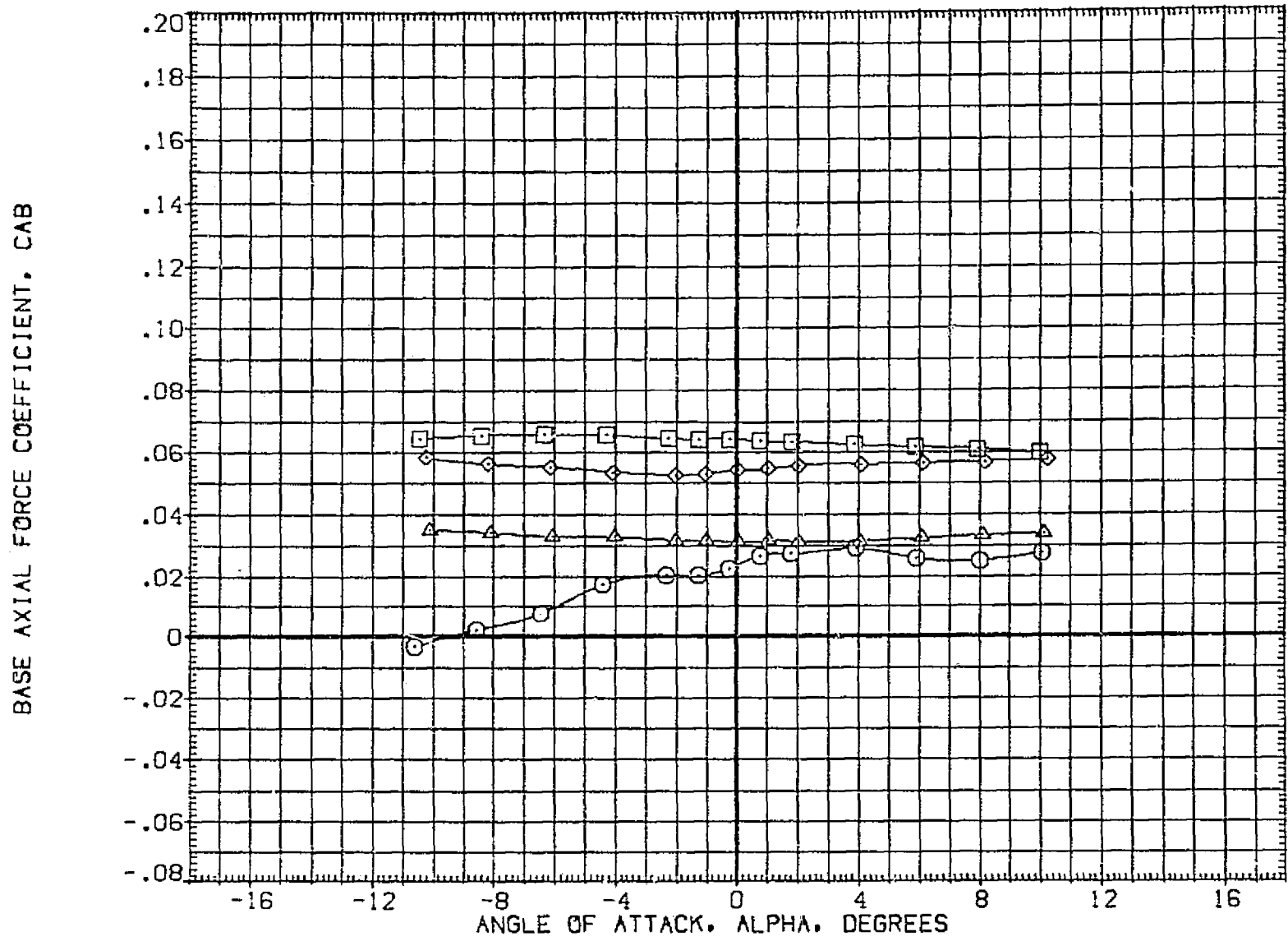


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-6003)	LPVT 1088/1119 (A-44) CONFIGURATION	02/T4/S7 .000
(B-6020)	LPVT 1088/1119 (A-44) CONFIGURATION	02/T4 .000
(B-6001)	LPVT 1088/1119 (A-44) CONFIGURATION	T4/S7 .000
(B-6018)	LPVT 1088/1119 (A-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.01:00	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

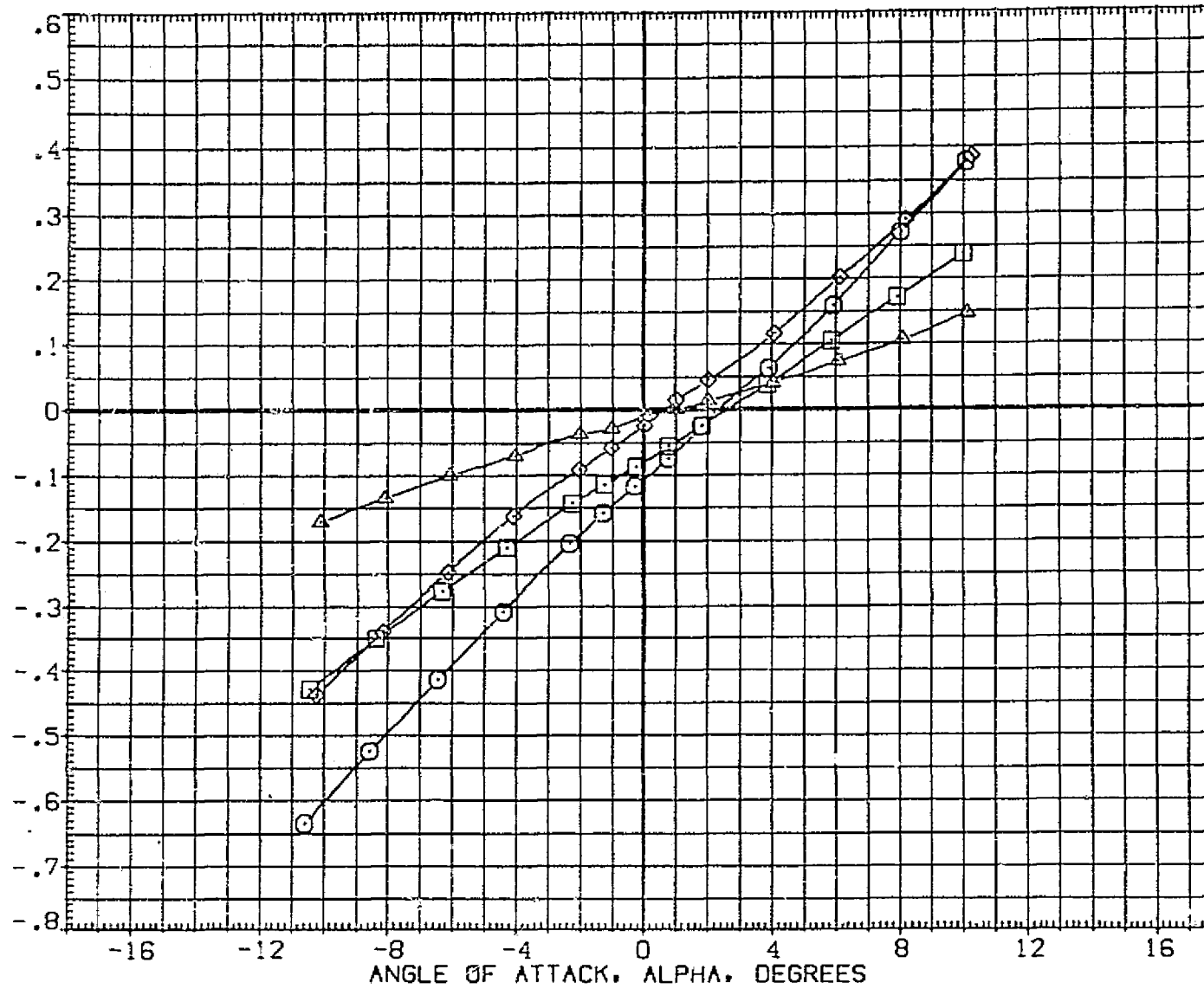


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003) □	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000
(9-8020) □	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4	.300
(9-8001) X	UPVT 1088/1119 (A-44) CONFIGURATION T4/S7	.000
(9-8018) Δ	UPVT 1088/1119 (A-44) CONFIGURATION T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

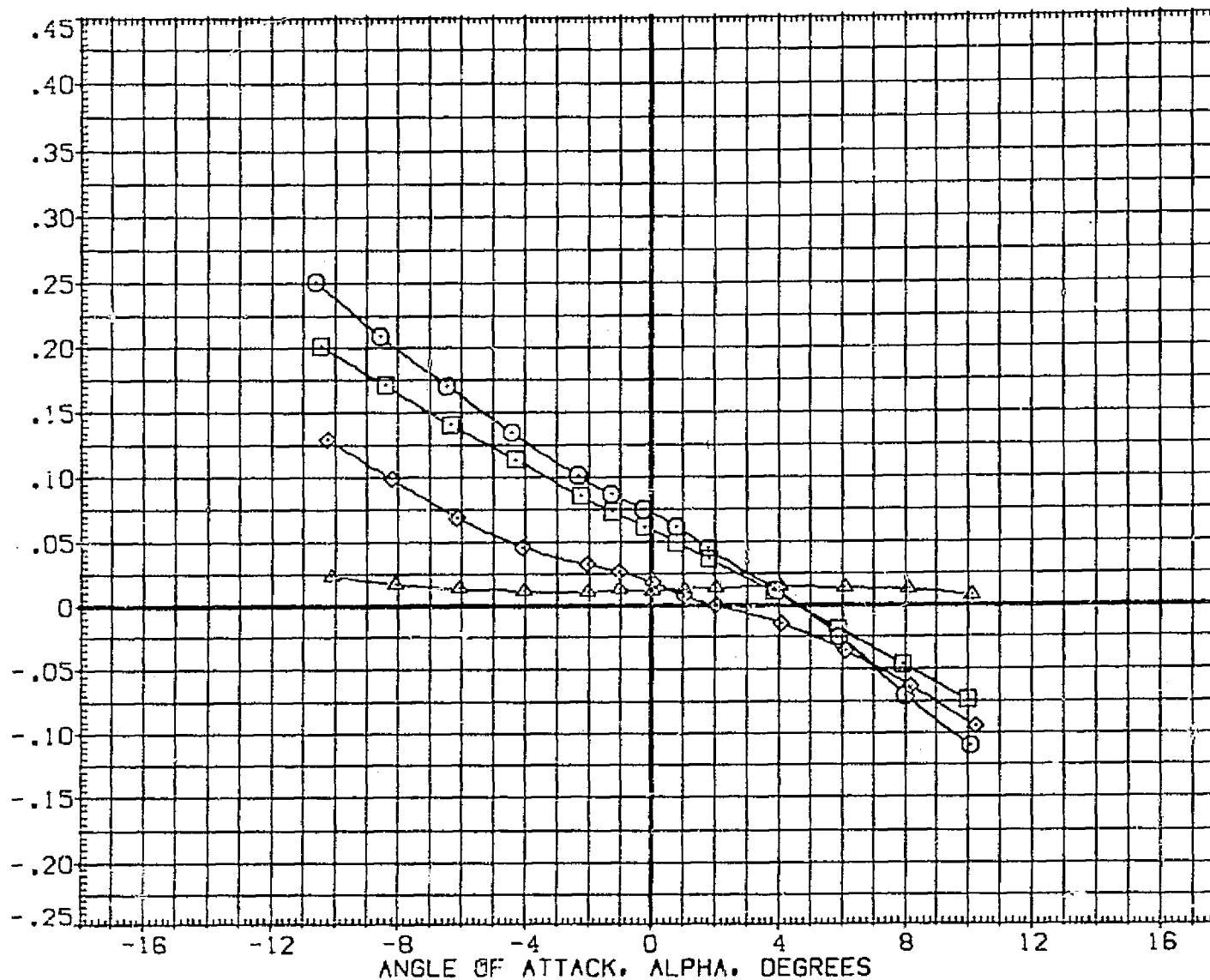


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/14/S7
(B-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7
(B-8018)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4

REFERENCE INFORMATION		
SREF	2680.0000	SQ.FT.
LREF	1280.3000	INCHES
BREF	1280.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

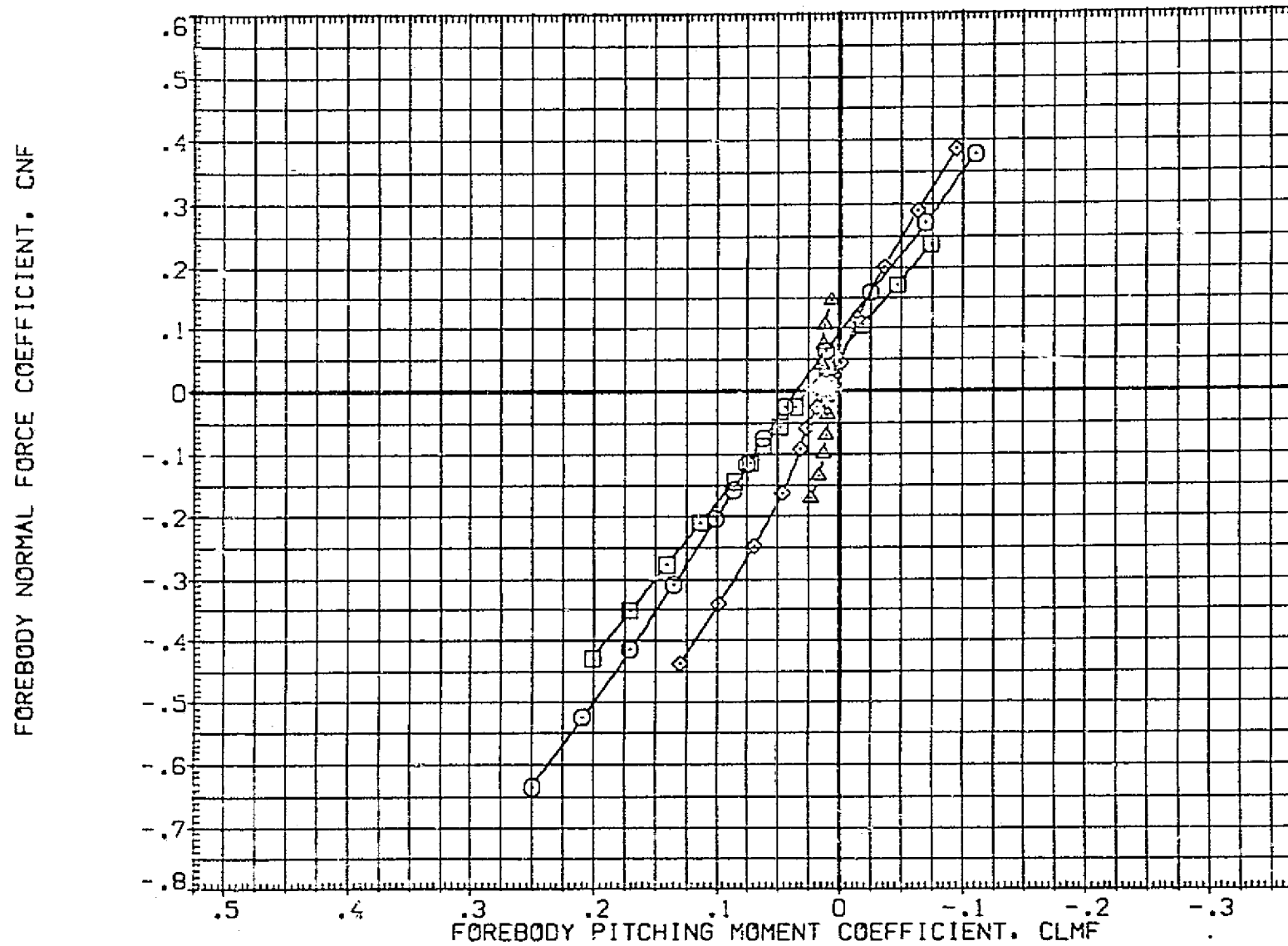


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(0)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8018)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
YMRP	976.0000	IN. XT
ZMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

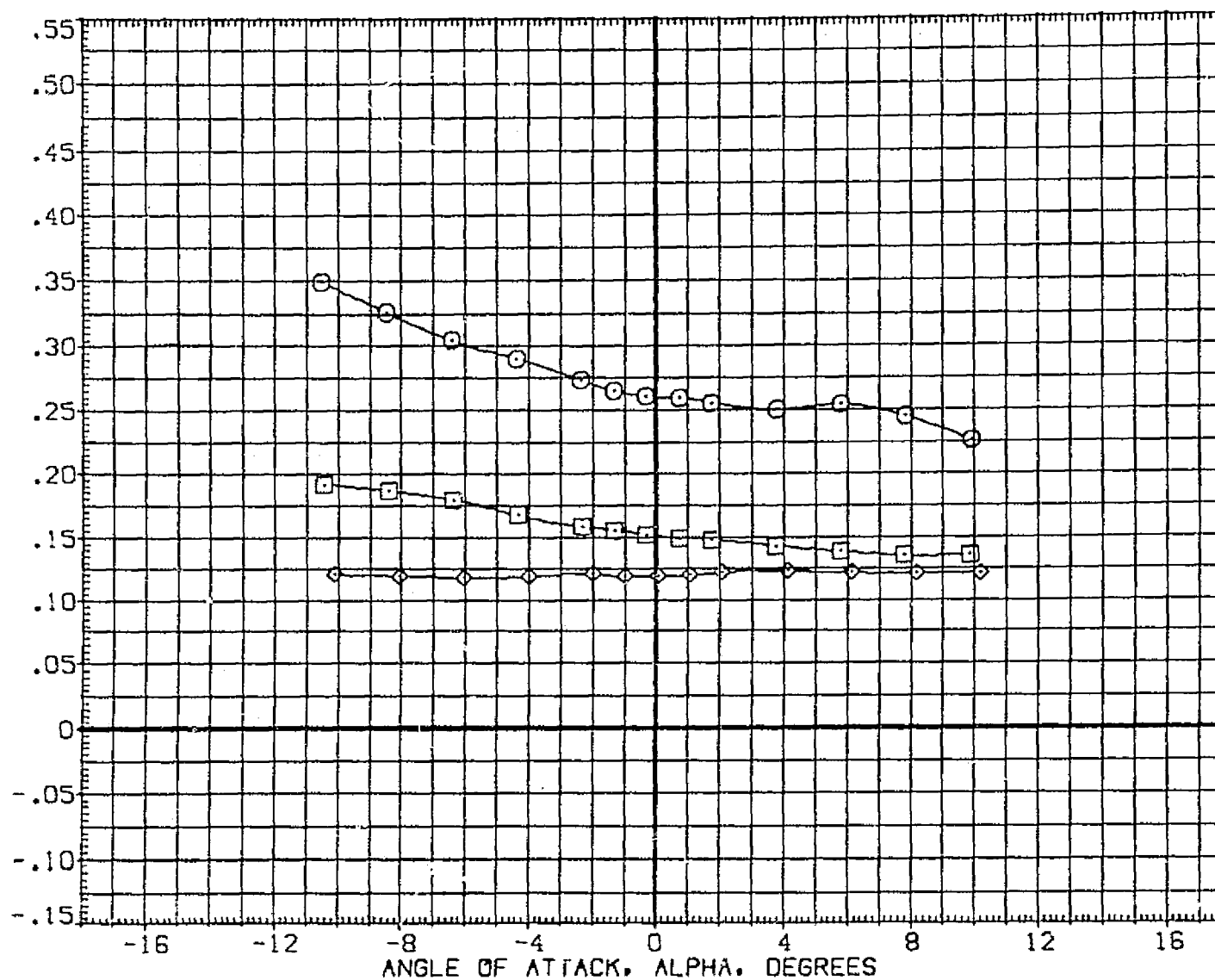


FIGURE 4. CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	□ UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	○ UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8001)	◇ UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8018)	△ DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

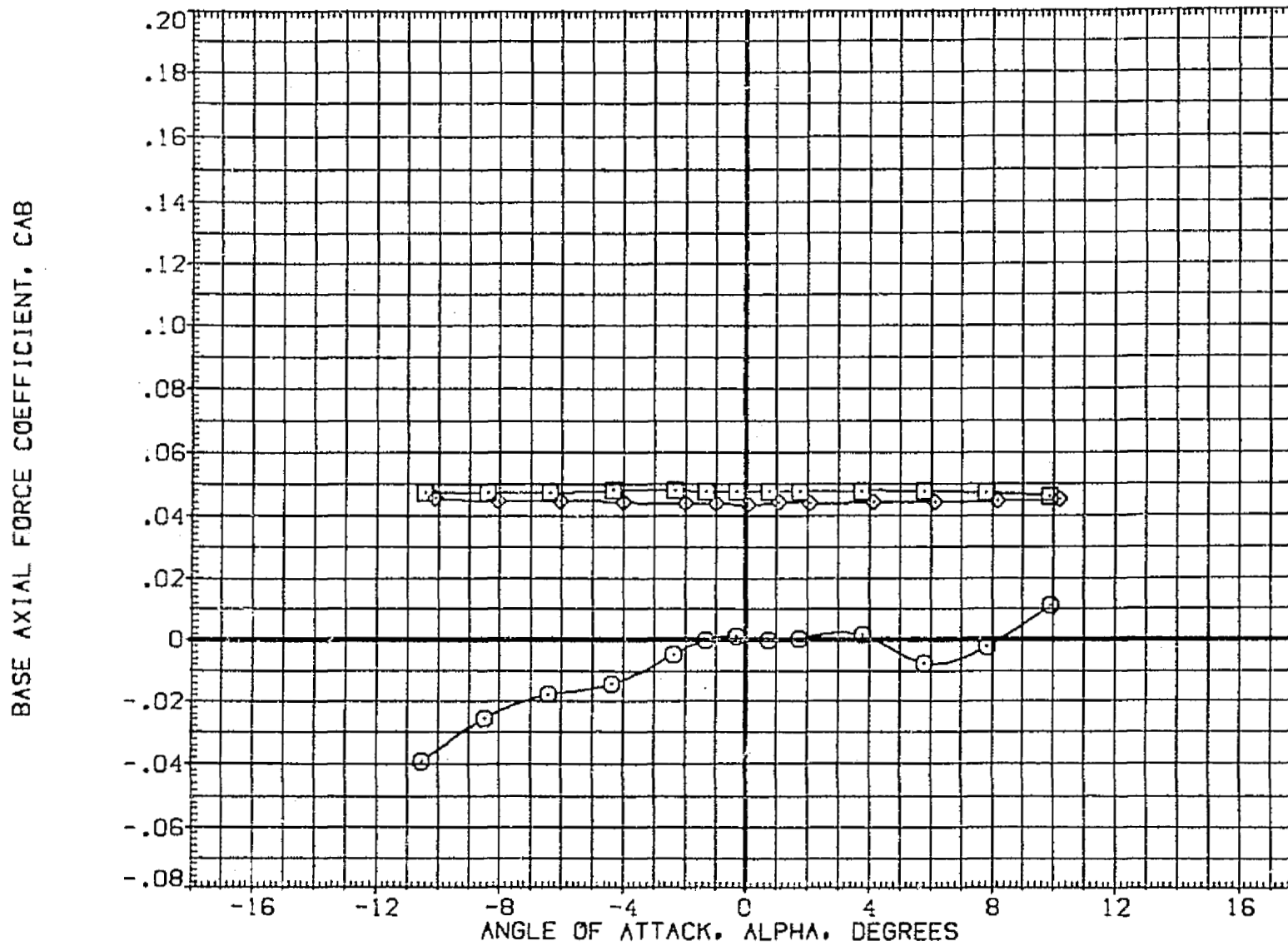


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(9-8020)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4
(9-8001)	UPWT 1088/1119 (1A-44) CONFIGURATION	T4/S7
(9-8018)	DATA NOT AVAILABLE	

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

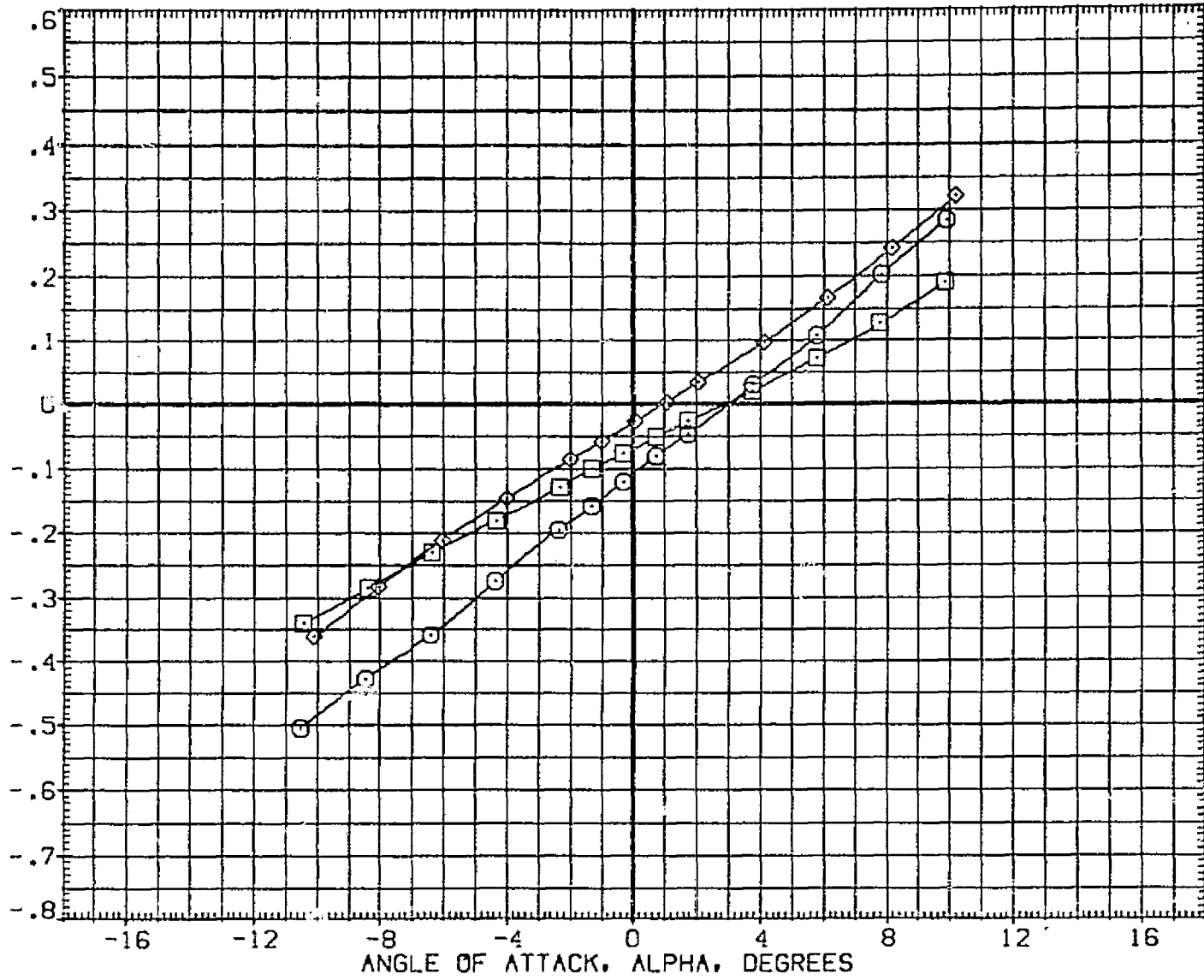


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8020) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(B-8001) ◇	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8018) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INC. 45
BREF	1290.3000	INC. 45
XMRP	976.0000	IN. X ¹
YMRP	.0000	IN. Y ¹
ZMRP	400.0000	IN. Z ¹
SCALE	.0100	

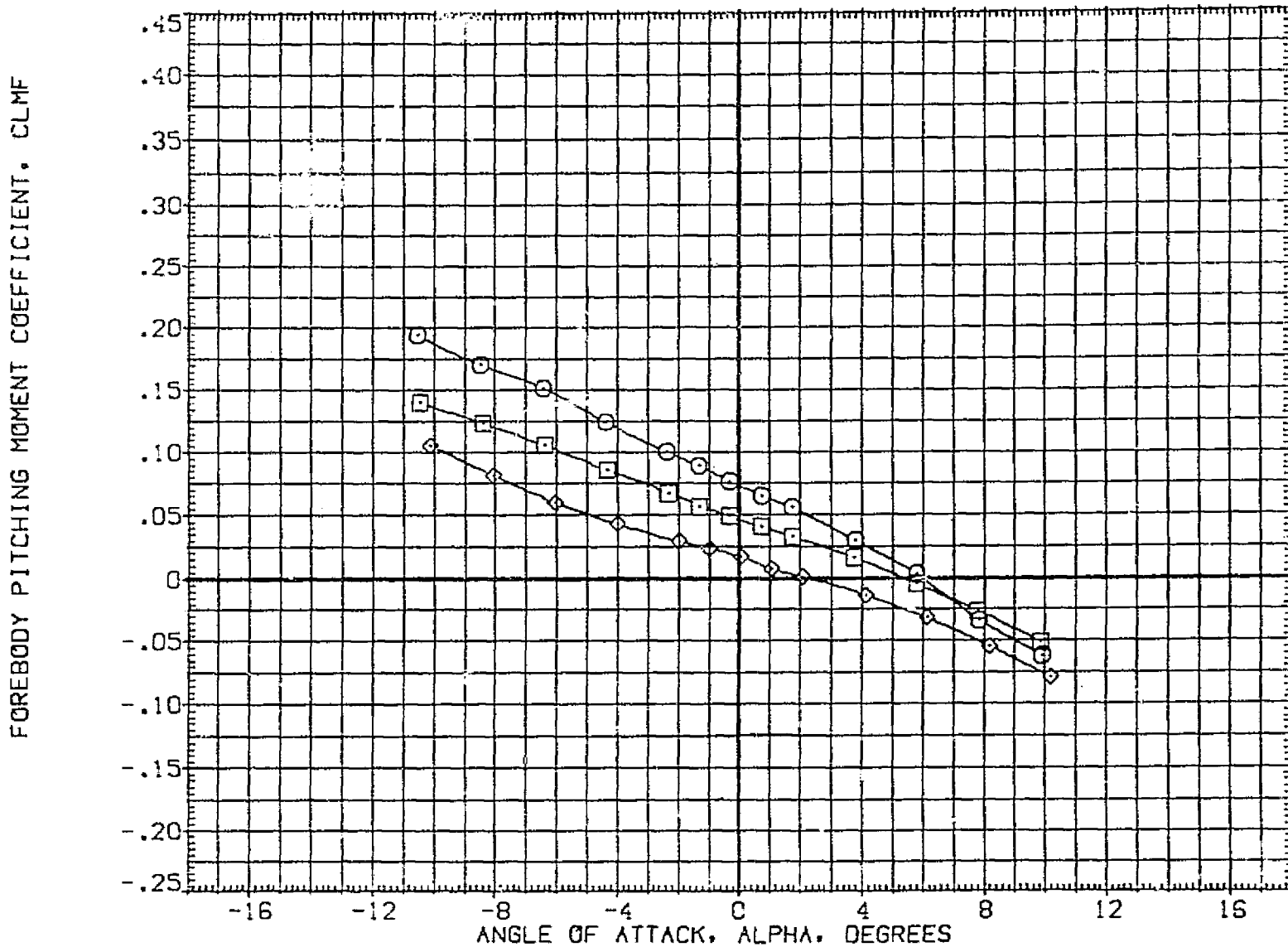


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8003) ○	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000	SREF 2690.0000 SQ.FT.
(B-8020) □	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000	LREF 1290.3000 INCHES
(B-8001) ⊗	LPWT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000	BREF 1290.3000 INCHES
(B-8018) △	DATA NOT AVAILABLE		XMRP 976.0000 IN. XT
			YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

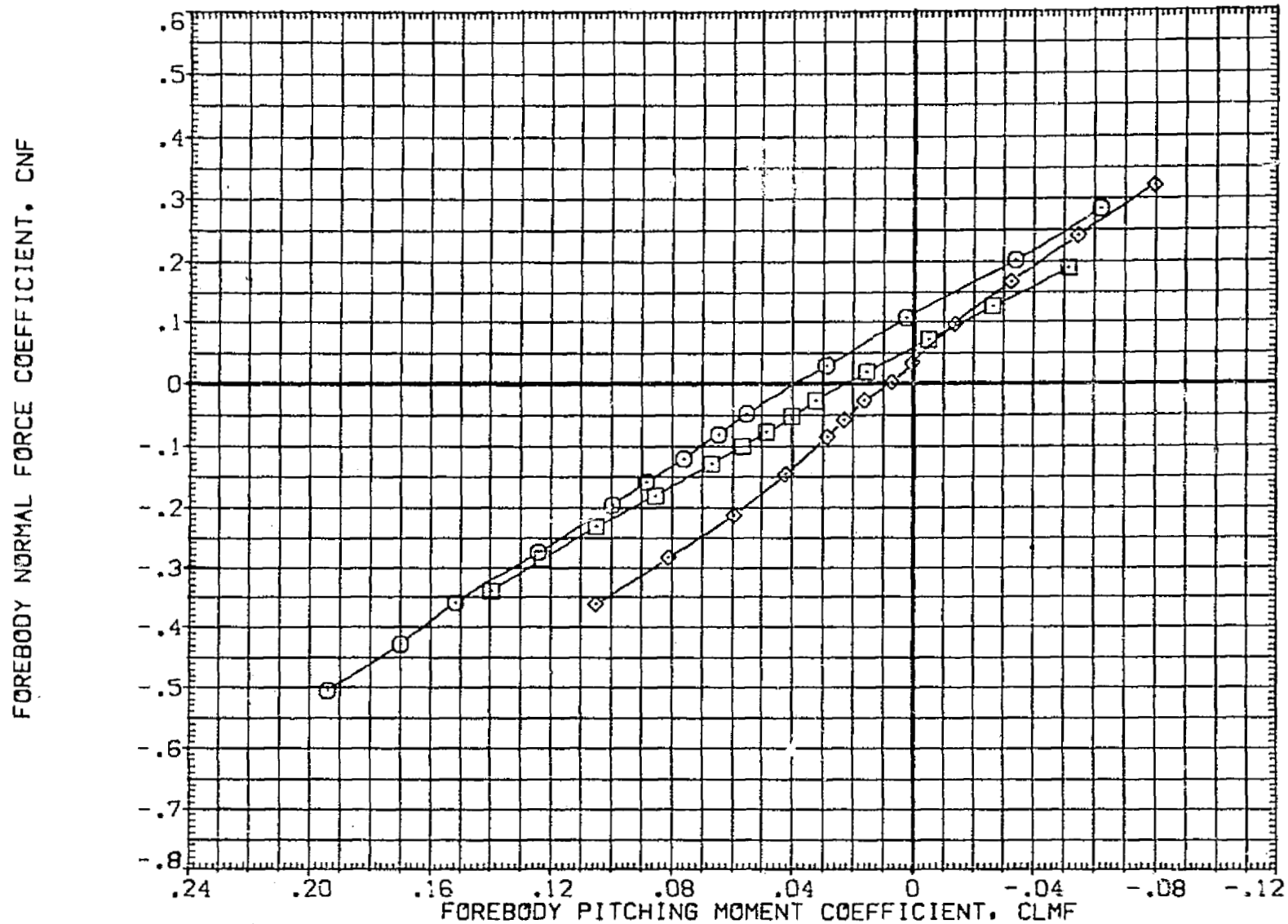


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS
 (E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(B-8001)	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8018)	UPVT 1088/1119 (1A-44) CONFIGURATION T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	876.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

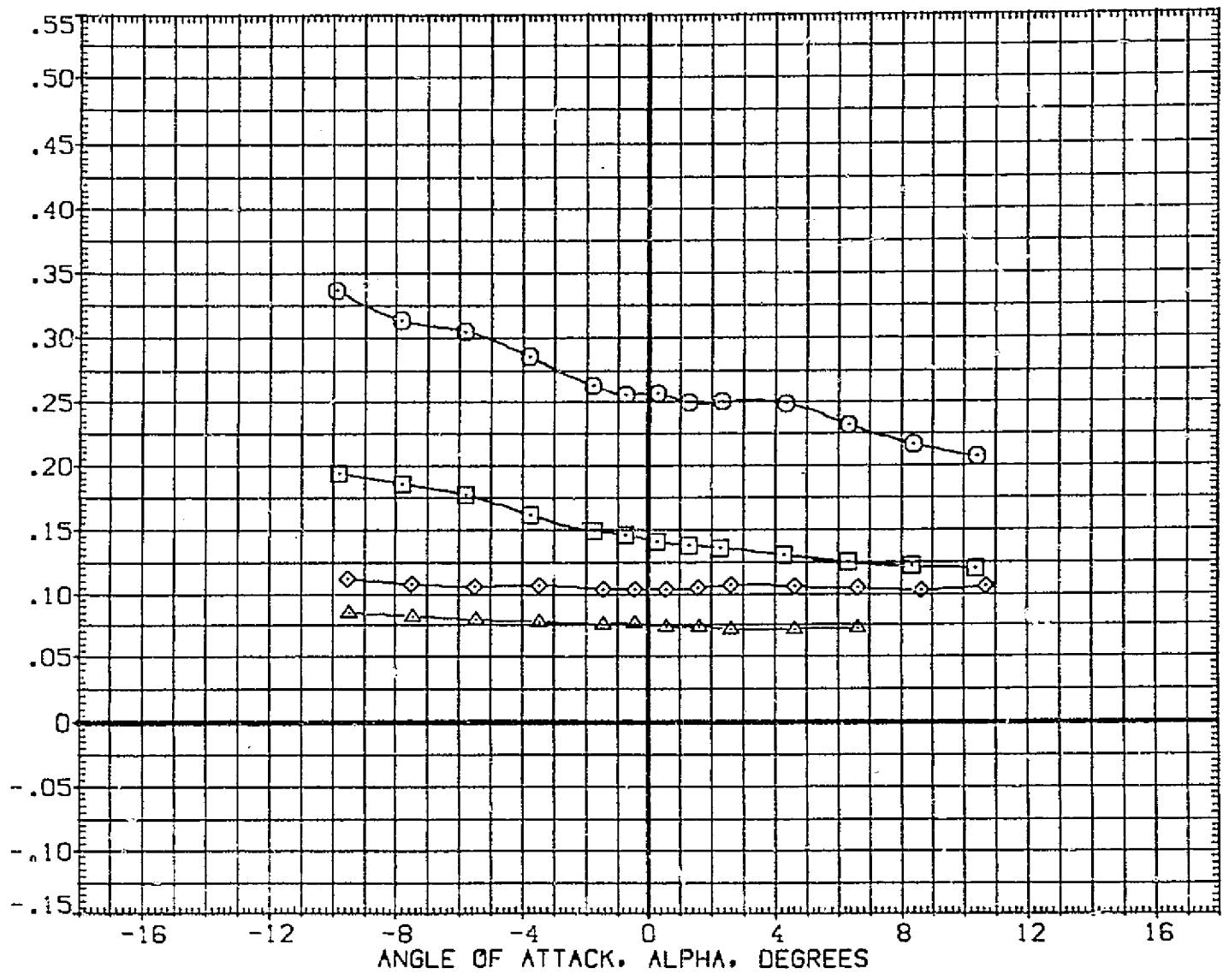


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	□ UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	□ UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4 .000
(B-8001)	◇ UPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7 .000
(B-8018)	△ UPVT 1088/1119 (IA-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

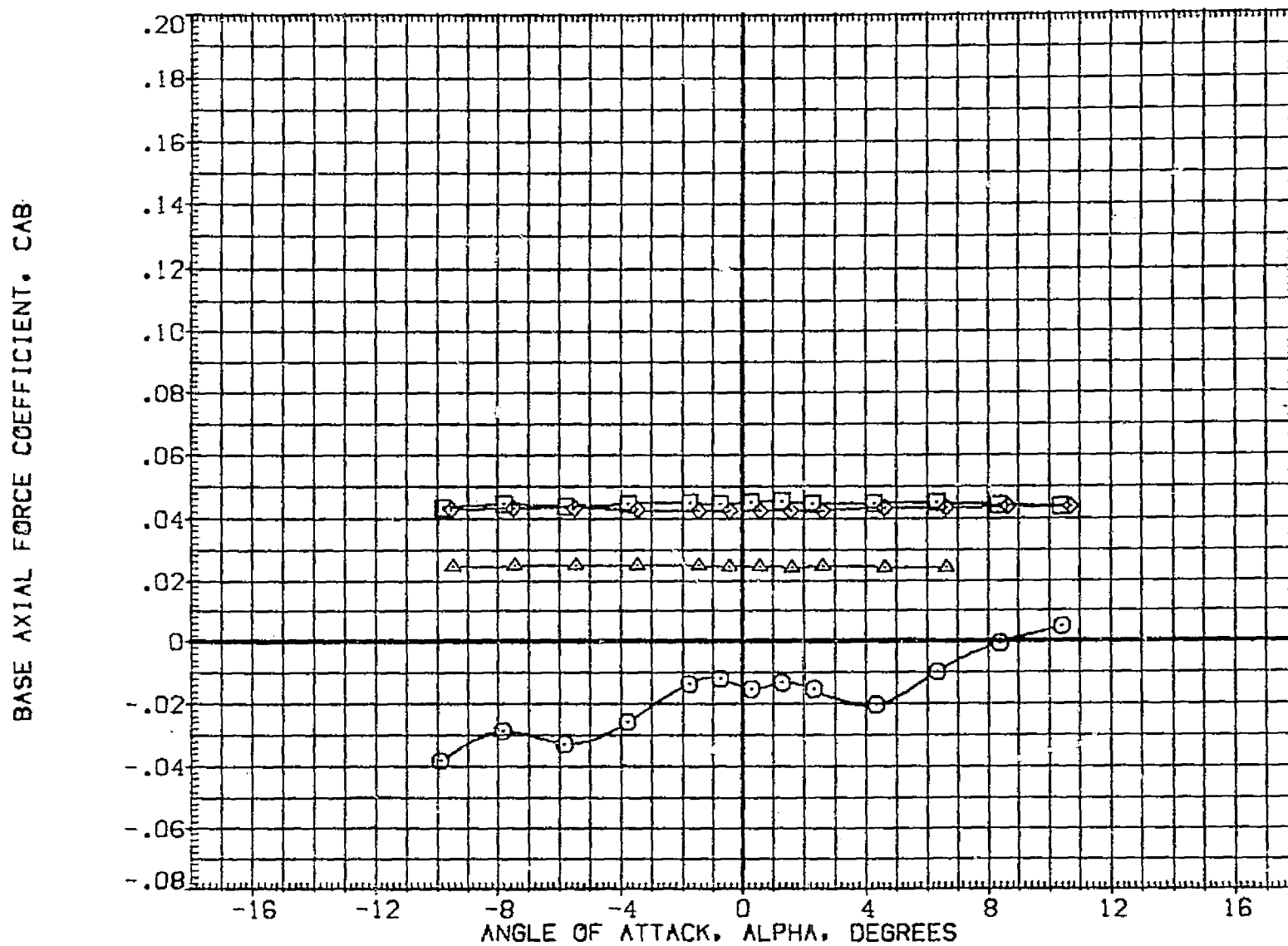


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	SREF 2690.0000 SQ. FT.
(B-8020)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF 1290.3000 INCHES
(B-8001)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	BREF 1290.3000 INCHES
(B-8018)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4	MREF 976.0000 IN. XT
			WREF .0000 IN. YT
			ZREF 400.0000 IN. ZT
			SCALE .0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

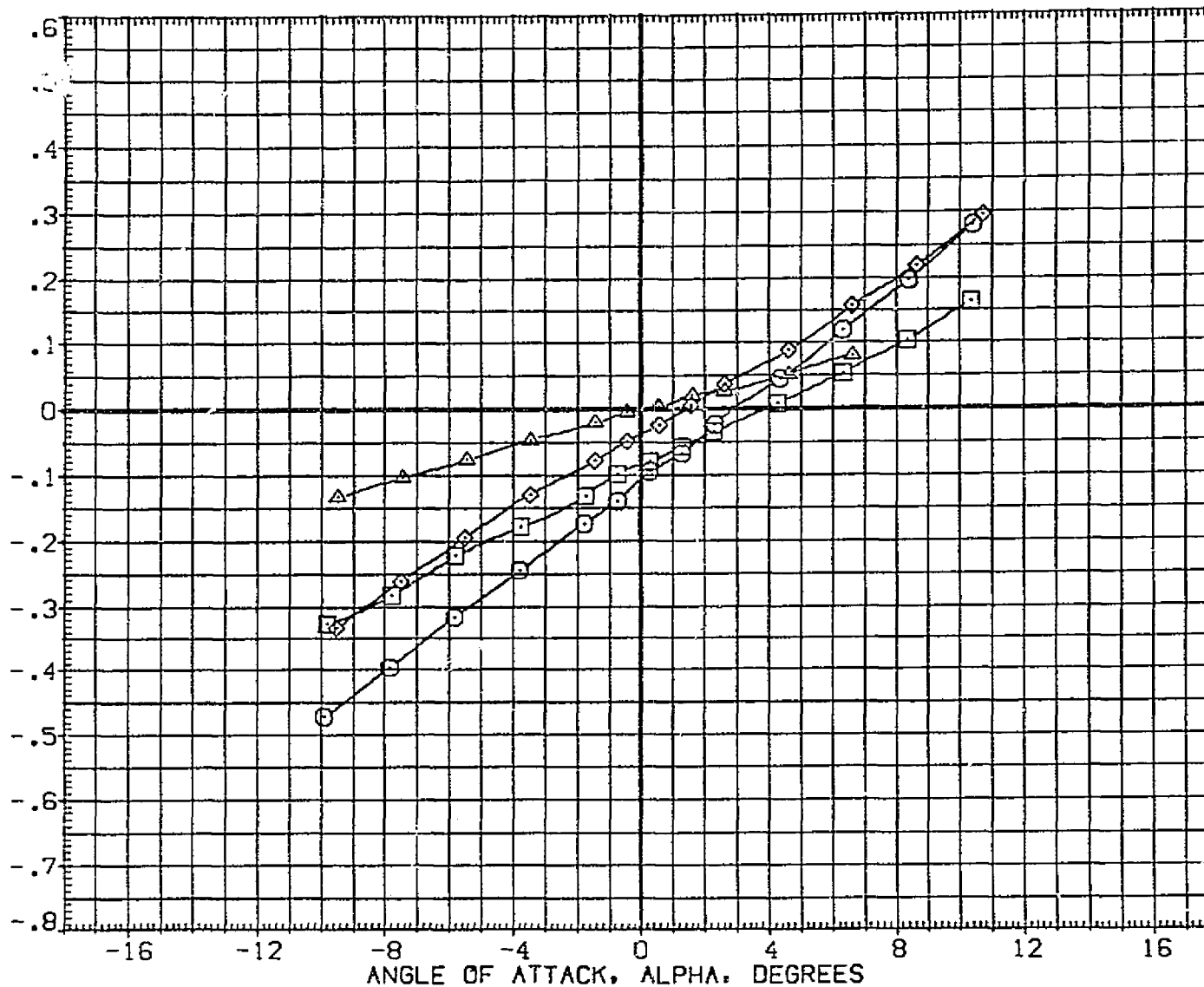


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS
(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION		
(B-8003)	□ UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000	SREF	2690.0000	50. FT.
(B-8020)	□ UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4 .000	LREF	1290.3000	INCHES
(B-8001)	◇ UPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7 .000	BREF	1290.3000	INCHES
(B-8018)	△ UPVT 1088/1119 (IA-44) CONFIGURATION	T4 .000	XMRP	976.0000	IN. XT
			YMRP	.0000	IN. YT
			ZMRP	400.0000	IN. ZT
			SCALE	.0100	

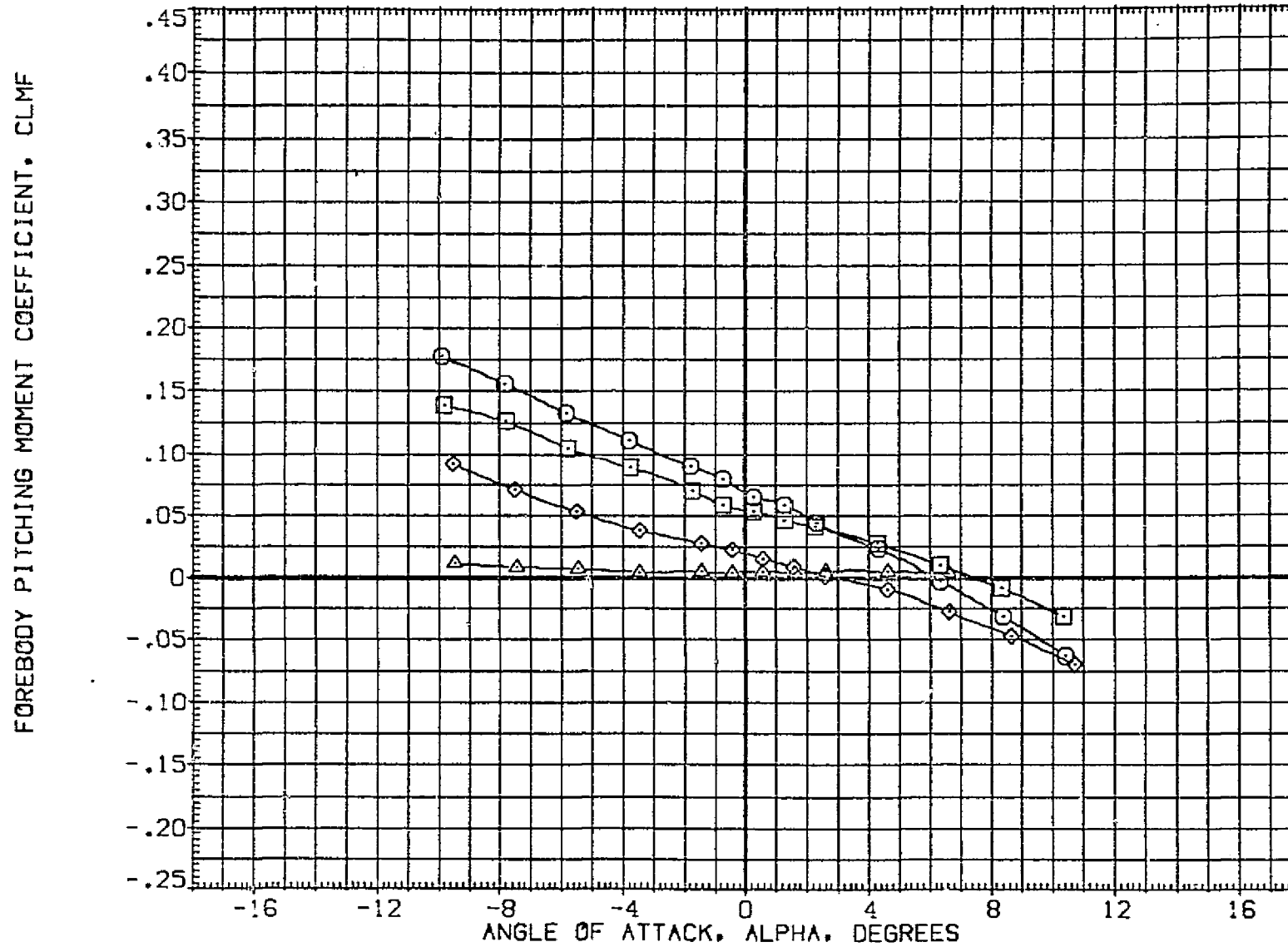


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPYT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	LPYT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8001)	LPYT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8018)	LPYT 1088/1119 (1A-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	IN. FT.
BREF	1290.3000	IN. FT.
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

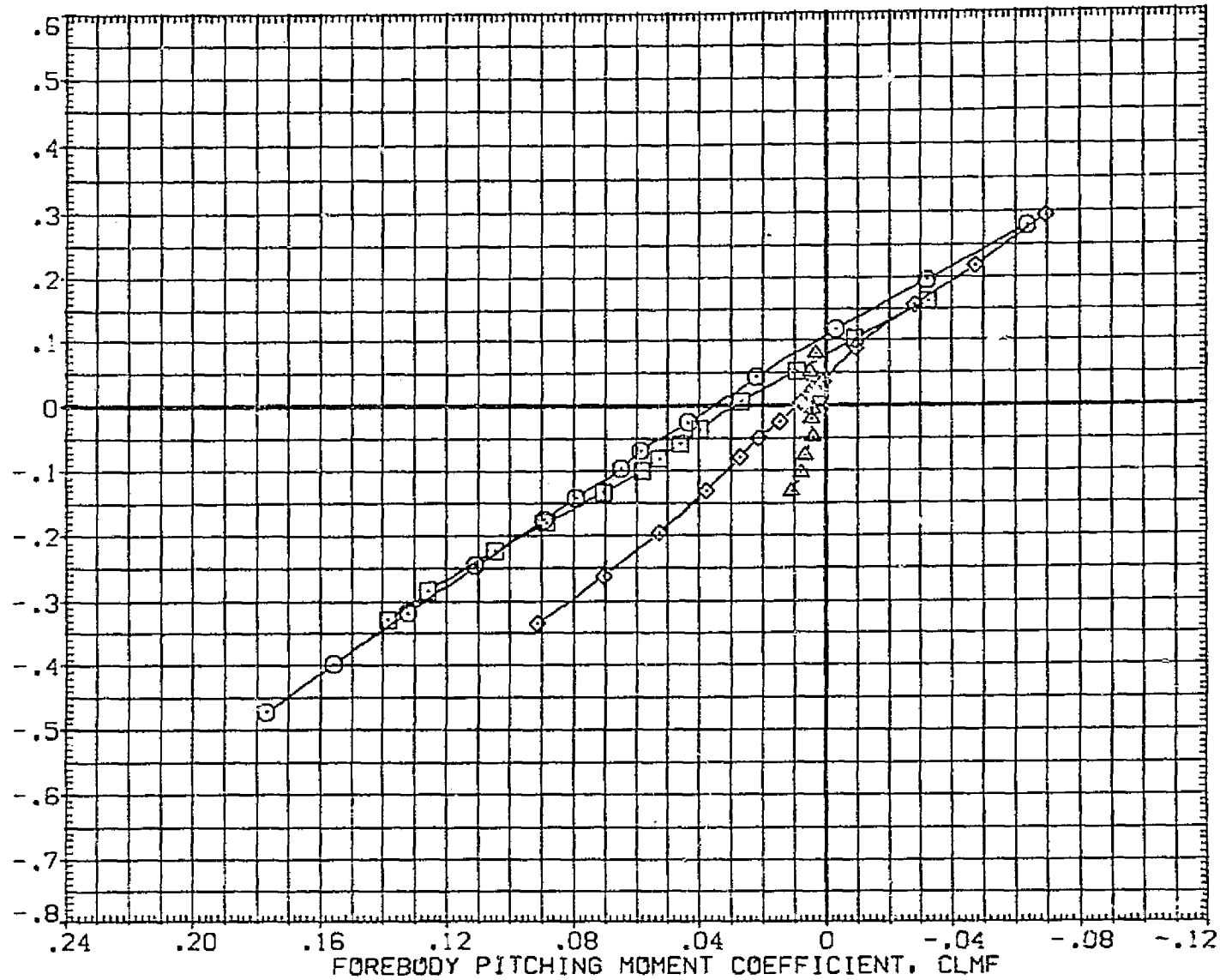


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)YACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION		
(9-8C03)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	02/T4/S7	SREF	2690.0000	50. FT.
(9-8C20)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF	1290.3000	INCHES
(9-8C01)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4/S7	BREF	1290.3000	INCHES
(9-8C18)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4	XMRP	976.0000	IN. XT
			YMRP	.0000	IN. YT
			ZMRP	400.0000	IN. ZT
			SCALE	.0100	

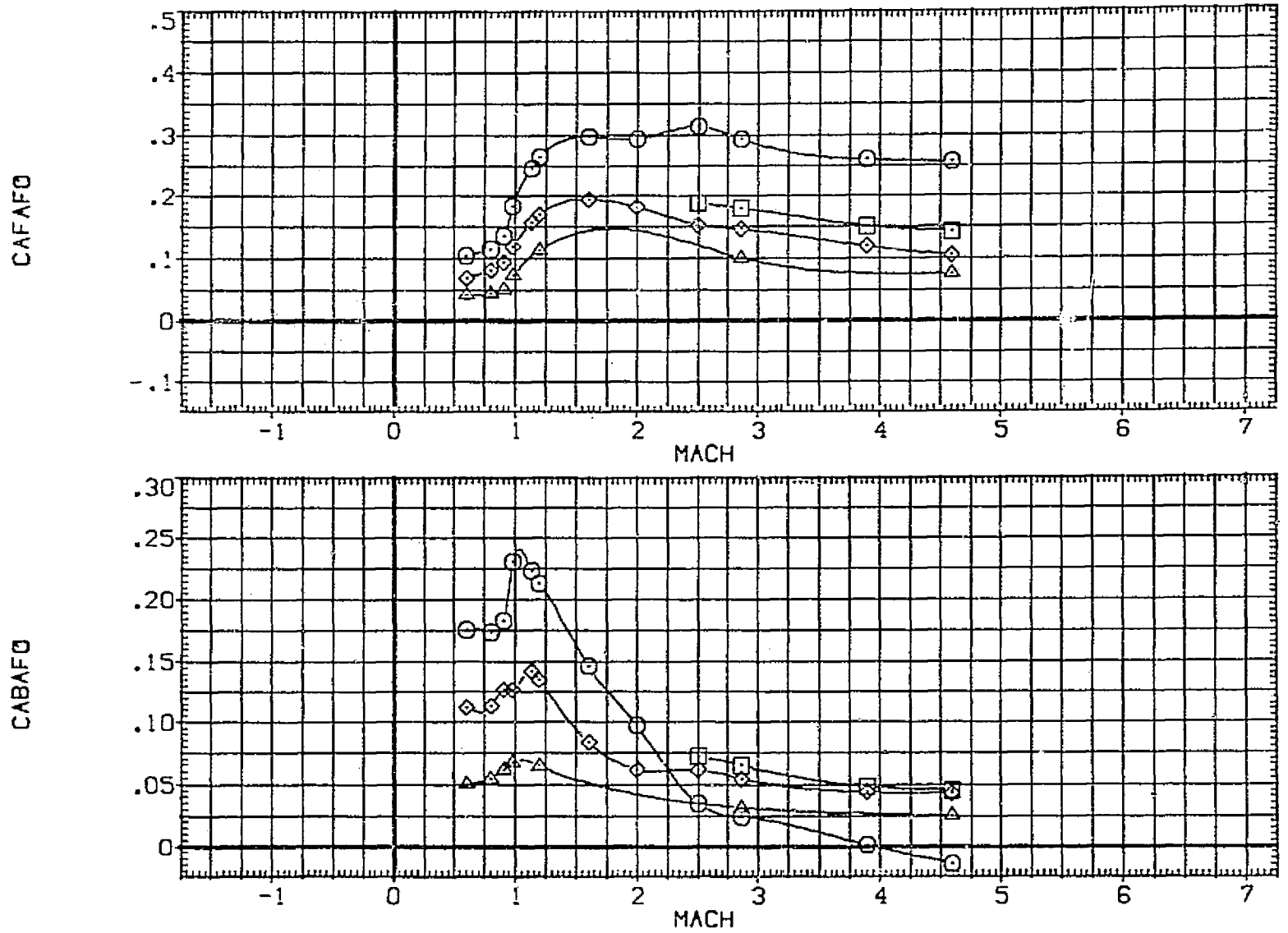


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-BC03)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	02/T4/S7 .000
(C-BC20)	UPVT 1069/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-BC01)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4/S7 .000
(B-BC18)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

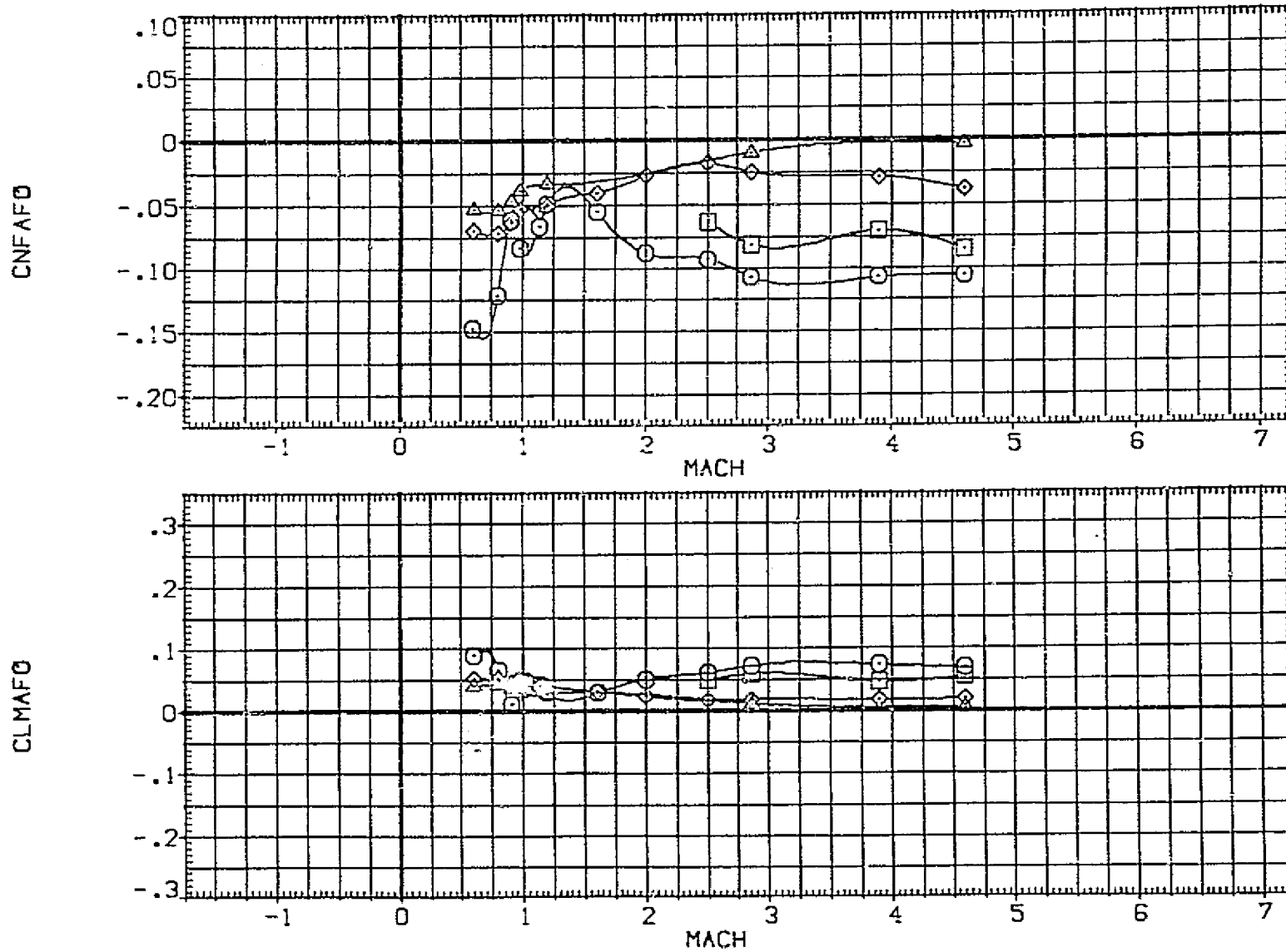


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(9-8003)	LARC BFT/UPVT(1A-43,44) CONFIGURATION 02/T4/S7	.000	SREF 2690.0000 SQ.FT.
(9-8020)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000	LREF 1290.3000 INCHES
(9-8001)	LARC BFT/UPVT(1A-43,44) CONFIGURATION T4/S7	.000	BREF 1290.3000 INCHES
(9-8016)	LARC BFT/UPVT(1A-43,44) CONFIGURATION T4	.000	XMRP 876.0000 IN. XT
			YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

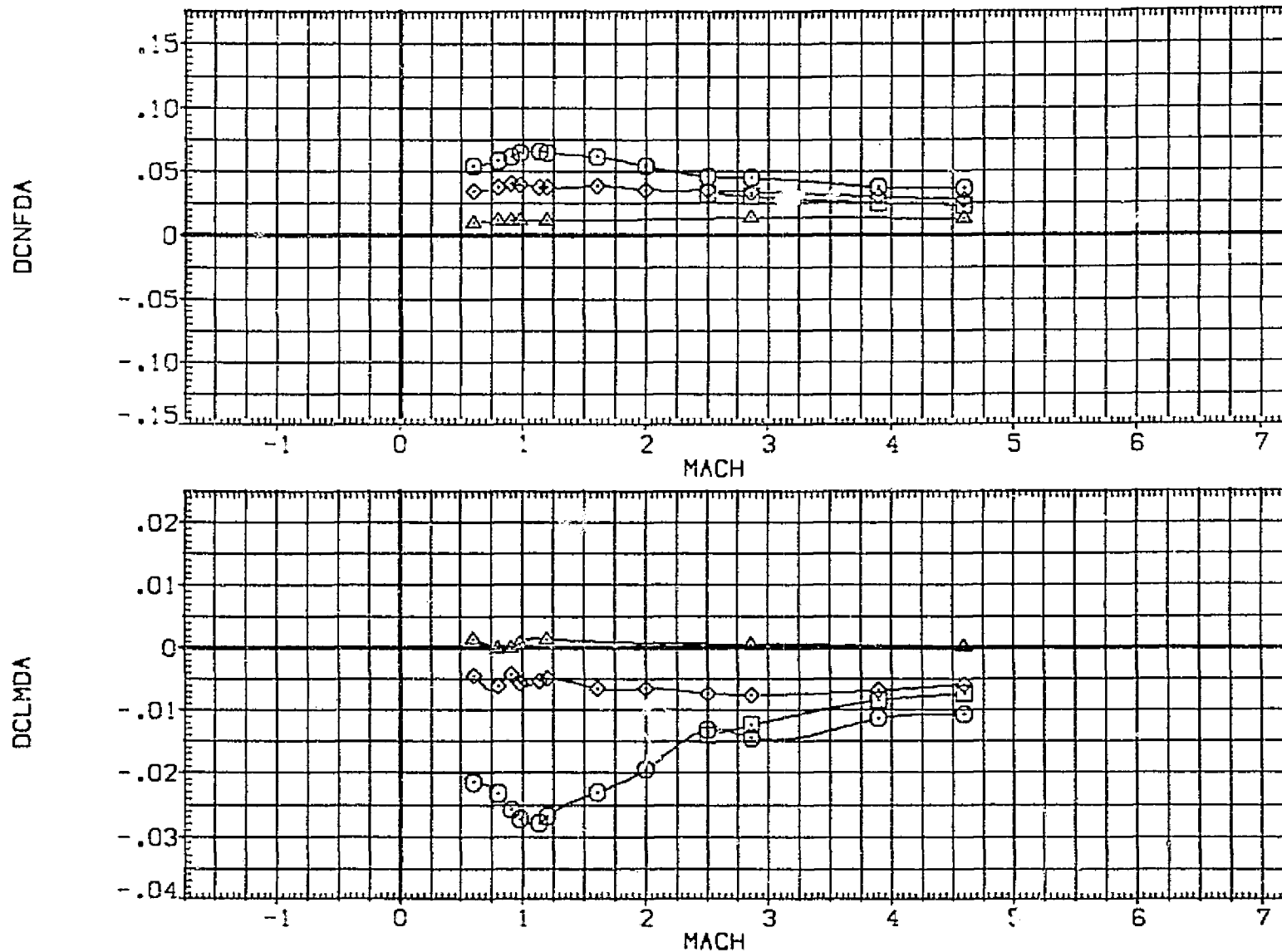


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8C03)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	02/T4/S7
(C-8C02)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4
(B-8C01)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4-S7
(B-8C18)	LARC 8FT/UPVT(1A-43,44) CONFIGURATION	T4

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.0000	10. FT.
BREF	1290.0000	10. FT.
XMRP	976.0000	19. X
YMRP	.0000	0. Y
ZMRP	400.0000	8. Z
SCALE	.0100	

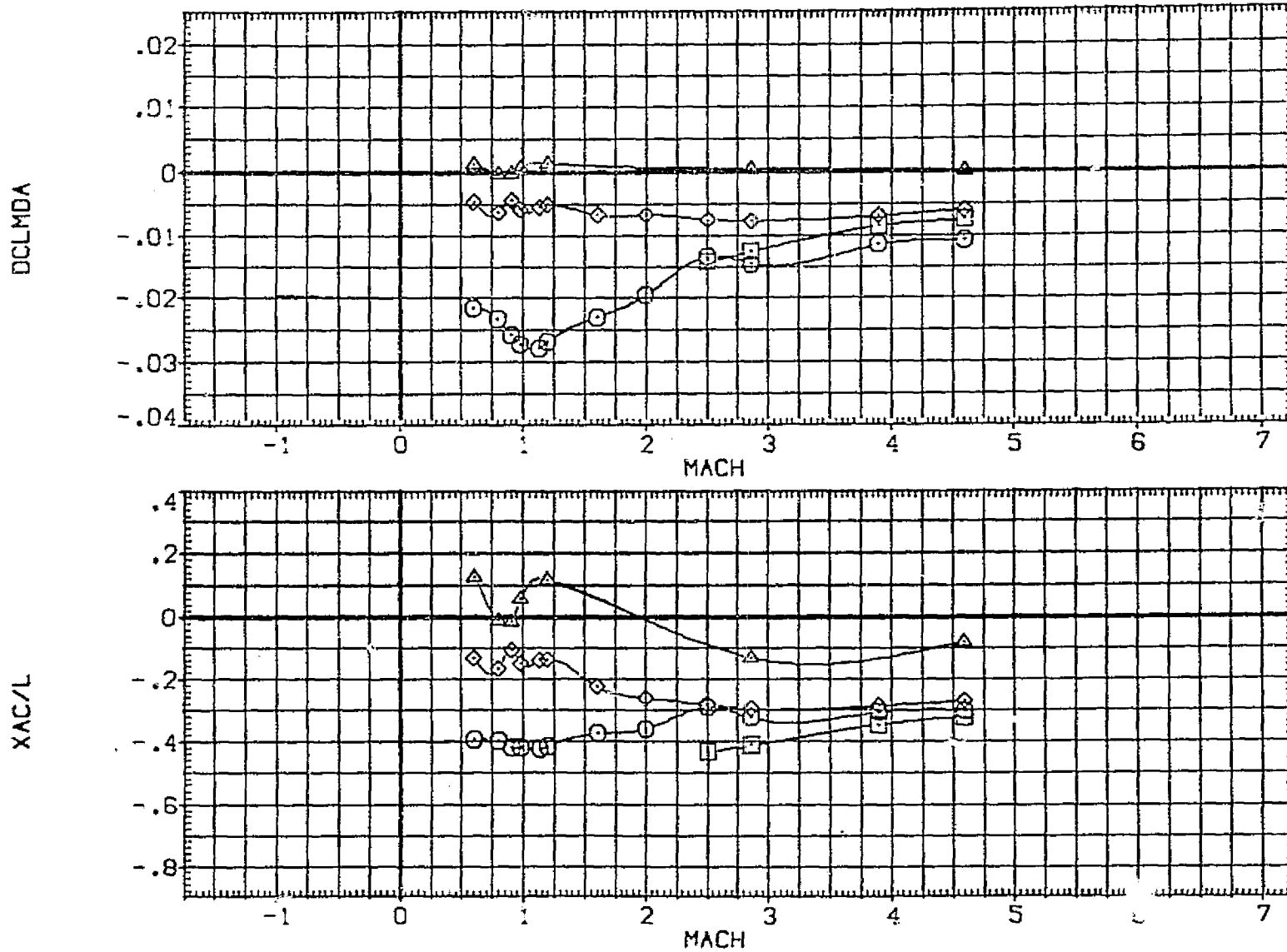


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	OPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	DATA NOT AVAILABLE	.000
(B-8002)	OPVT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

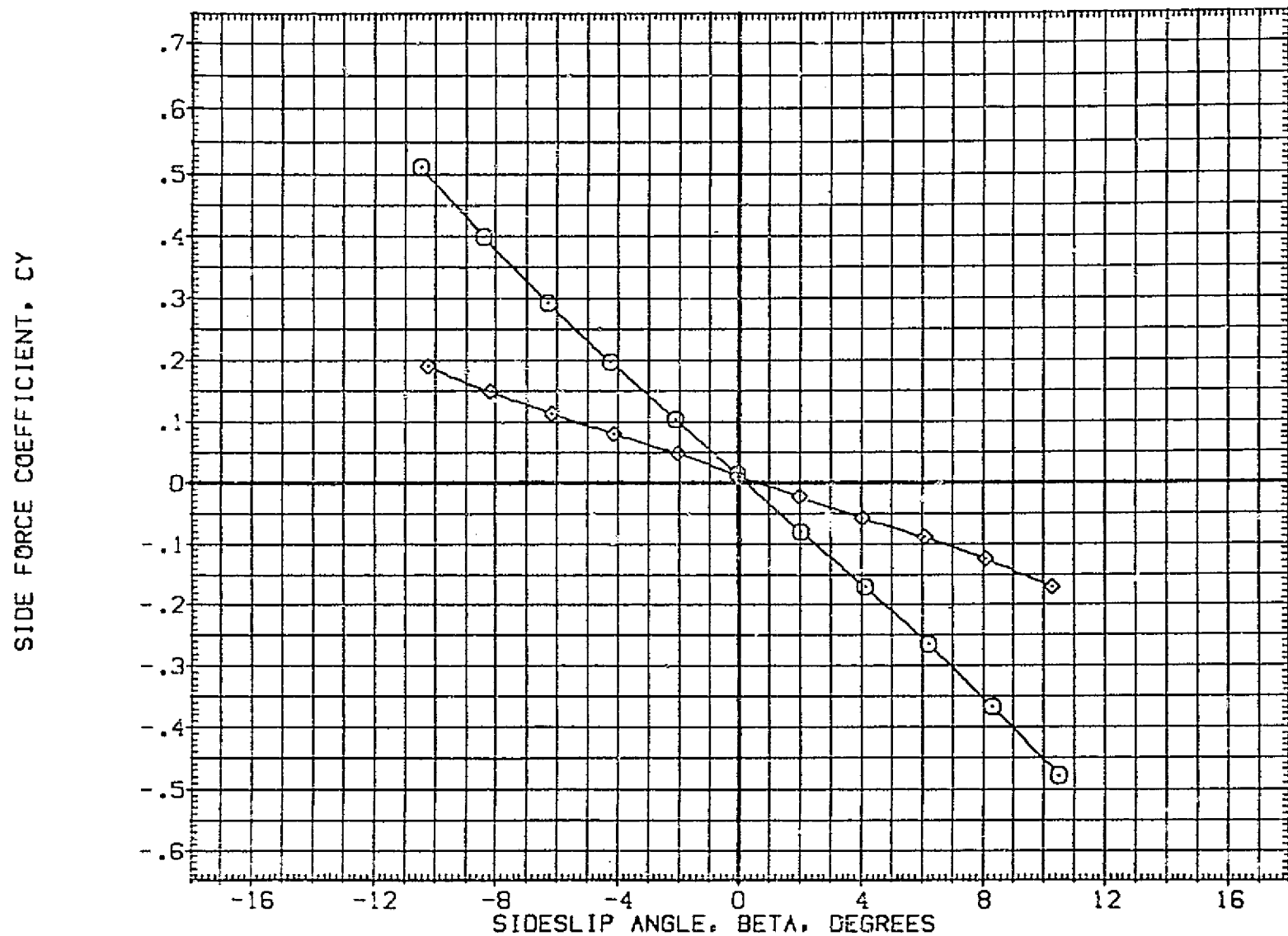


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8001)	DATA NOT AVAILABLE	.000
(B-8002)	LPVT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	170. 66
BREF	1290.3000	170. 66
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

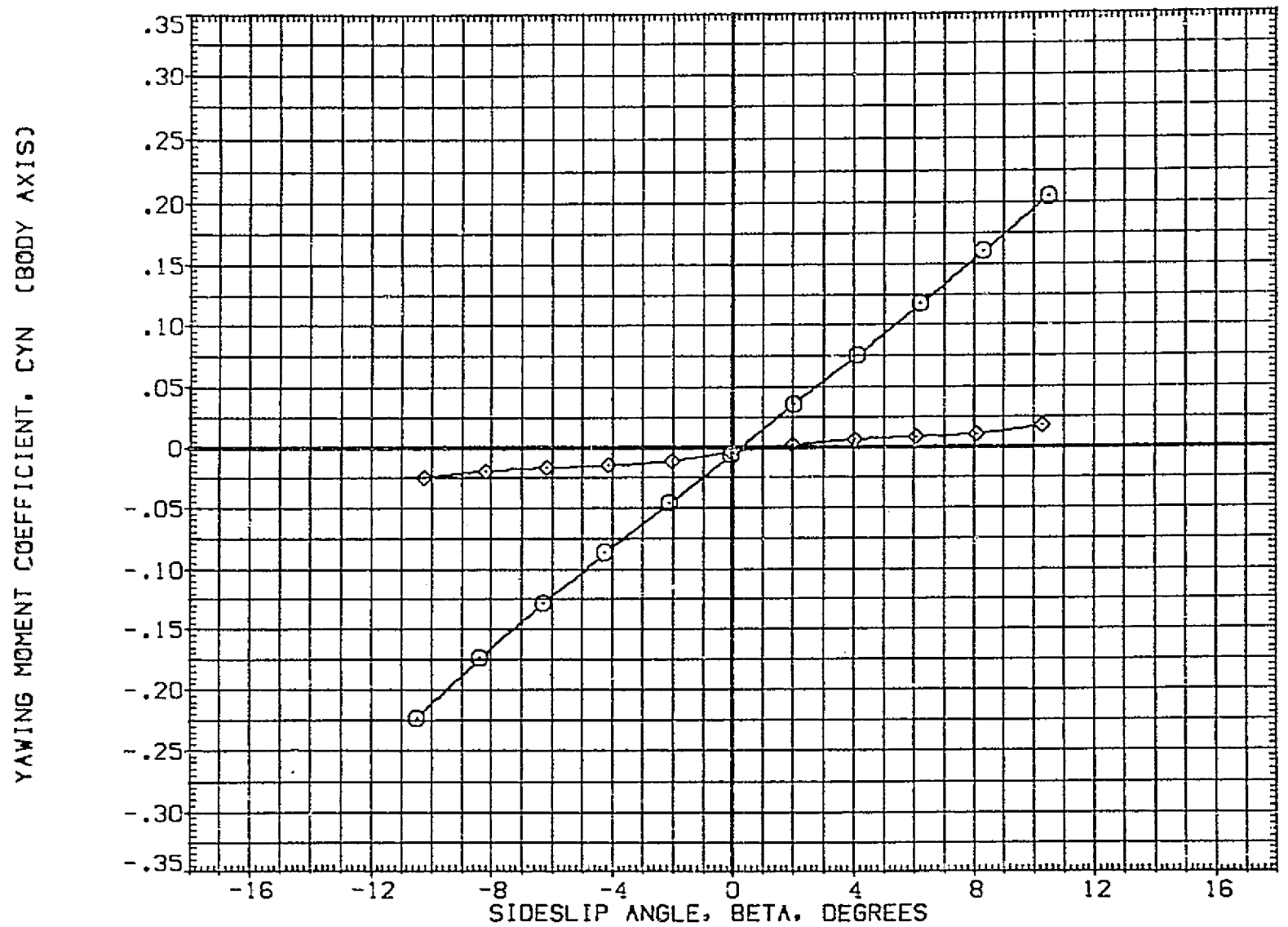


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION	
(B-8004)	LPWT 1088/1119 (IA-44) CONFIGURATION	02/14/57	.000	SREF 2690.0000 SO. FT.
(B-8021)	DATA NOT AVAILABLE		.000	LREF 1290.3000 INCHES
(B-8002)	LPWT 1088/1119 (IA-44) CONFIGURATION	T4/57	.000	BREF 1290.3000 INCHES
(B-8019)	DATA NOT AVAILABLE		.000	XMRP 976.0000 IN. XT
				YMRP .0000 IN. YT
				ZMRP 400.0000 IN. ZT
				SCALE .0100

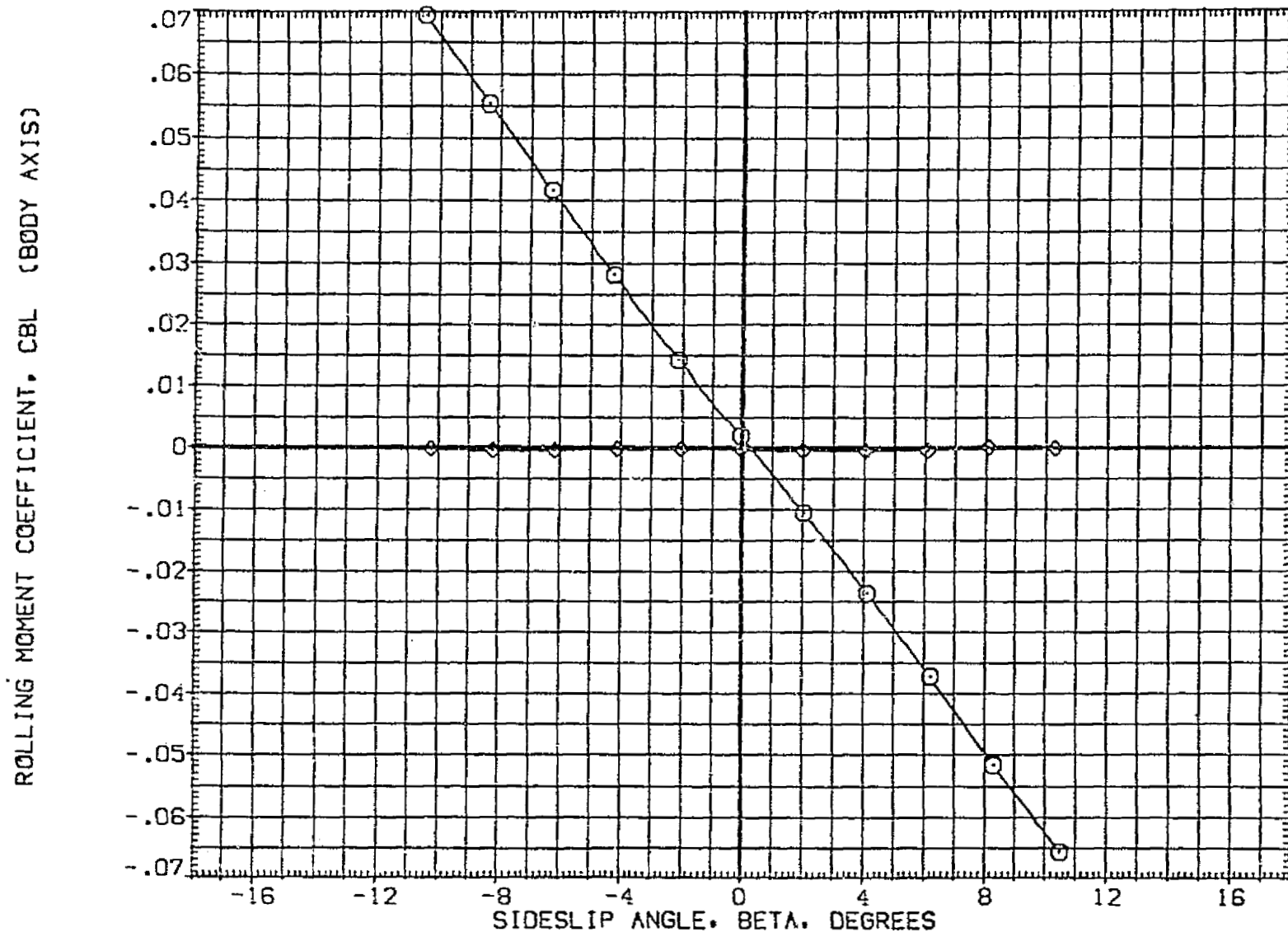


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
[9-8004]	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
[9-8021]	DATA NOT AVAILABLE	.000
[9-8002]	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
[9-8019]	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

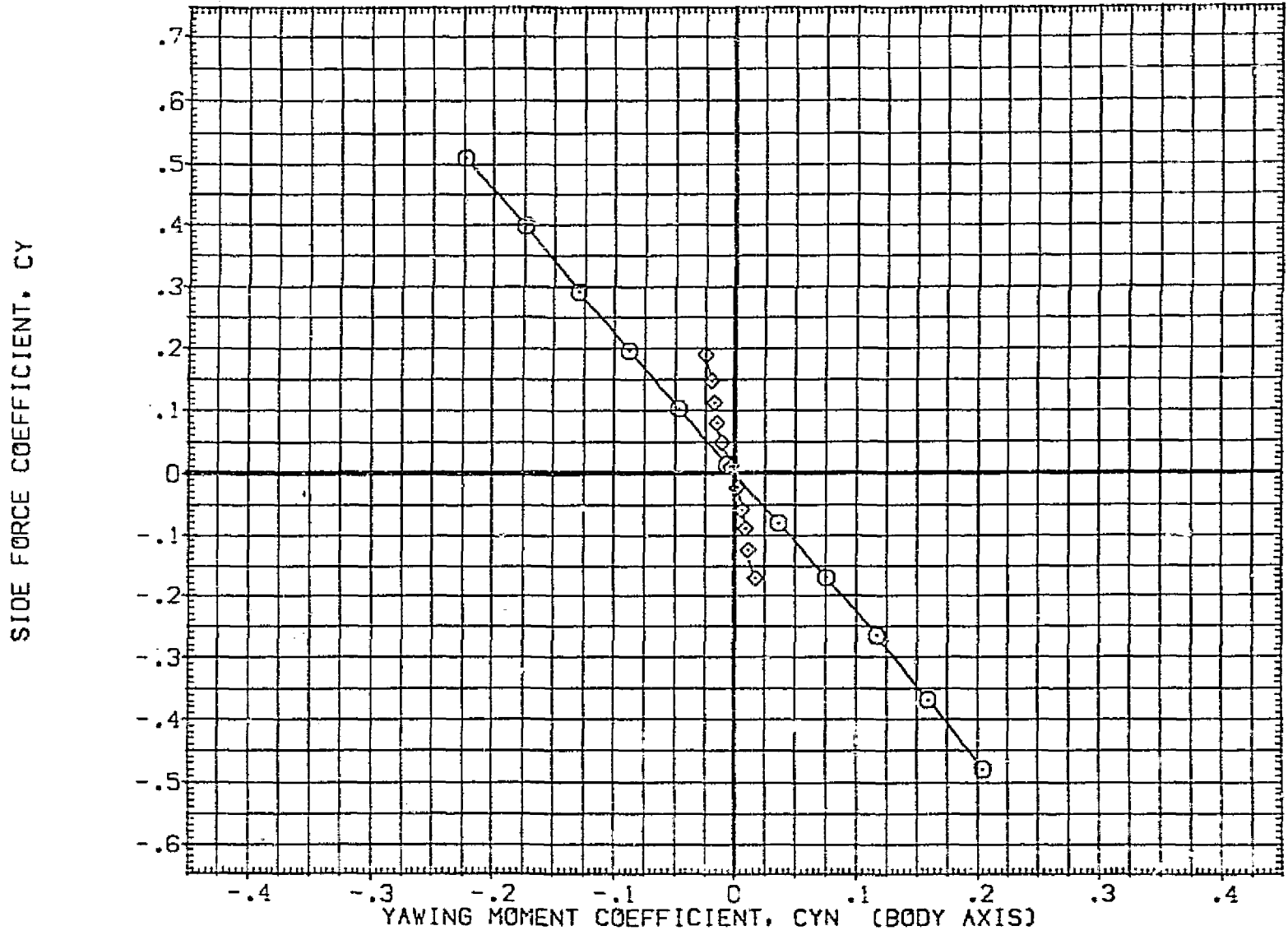


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8001) ○	DATA NOT AVAILABLE	.000
(B-8002) ○	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8019) △	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	30.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

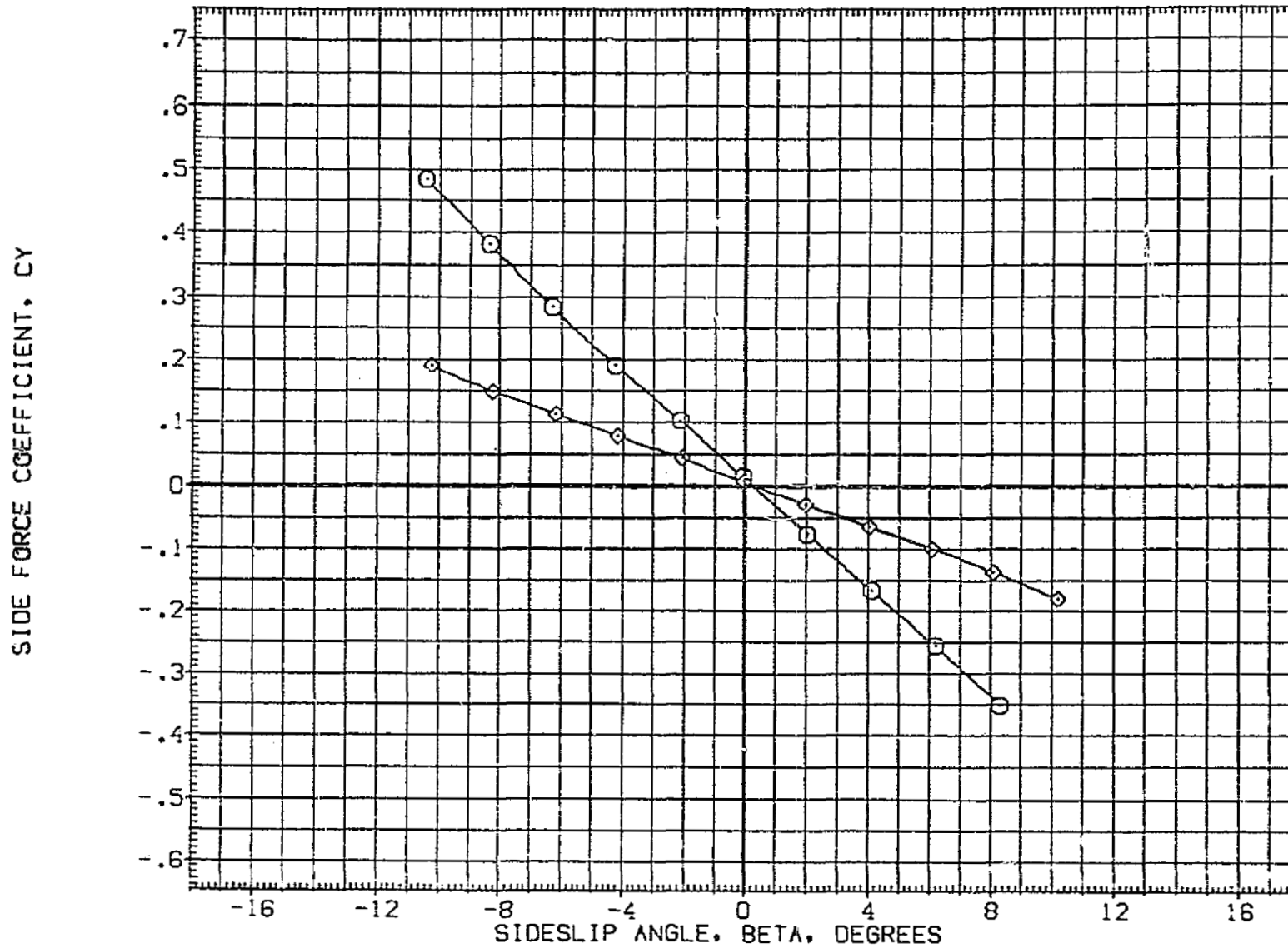


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	UPVT 1089/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	DATA NOT AVAILABLE	.000
(B-8002)	UPVT 1089/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1240.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

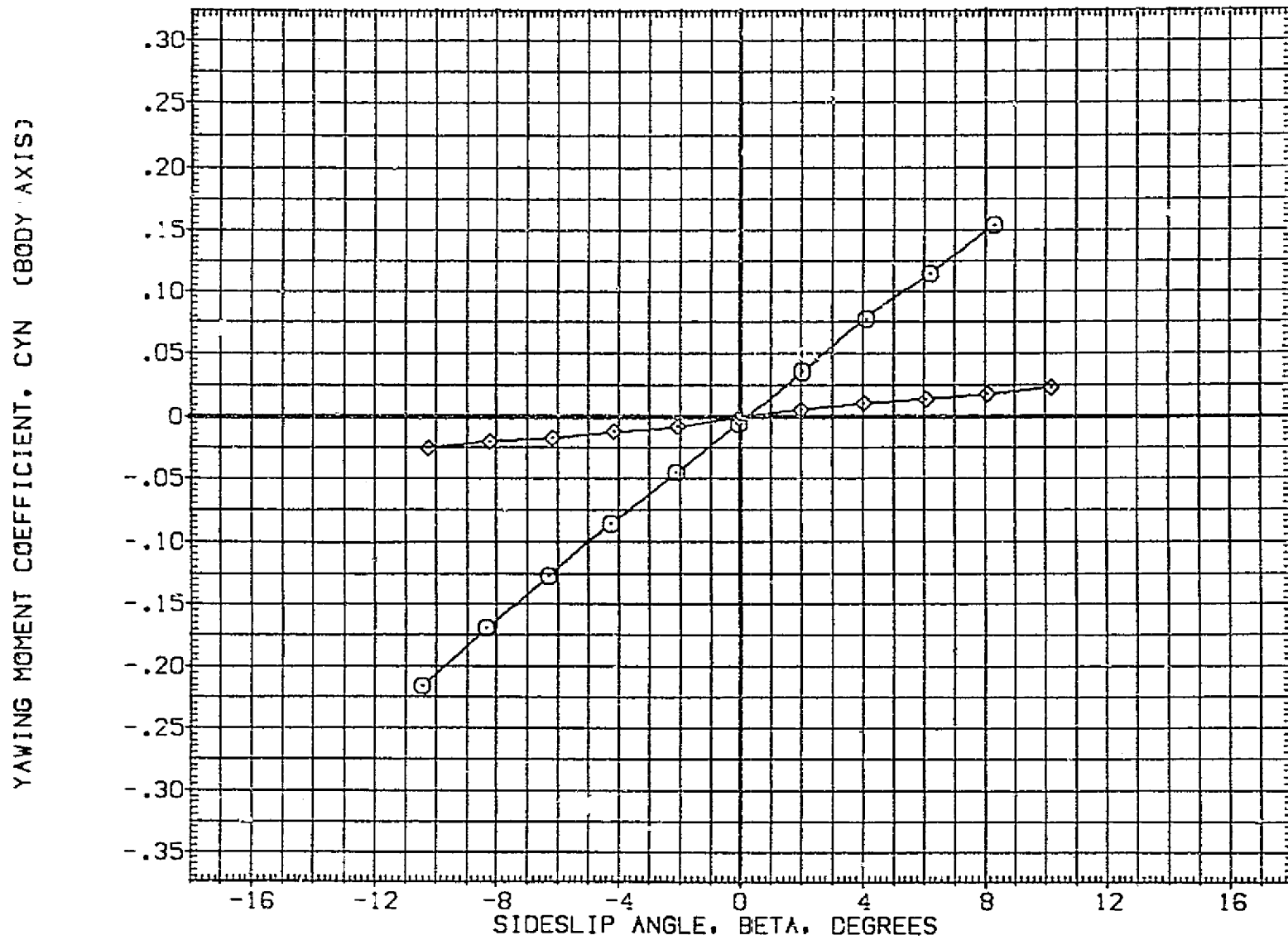


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	DATA NOT AVAILABLE	.000
(B-8002)	UPVT 1088/1119 (IA-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

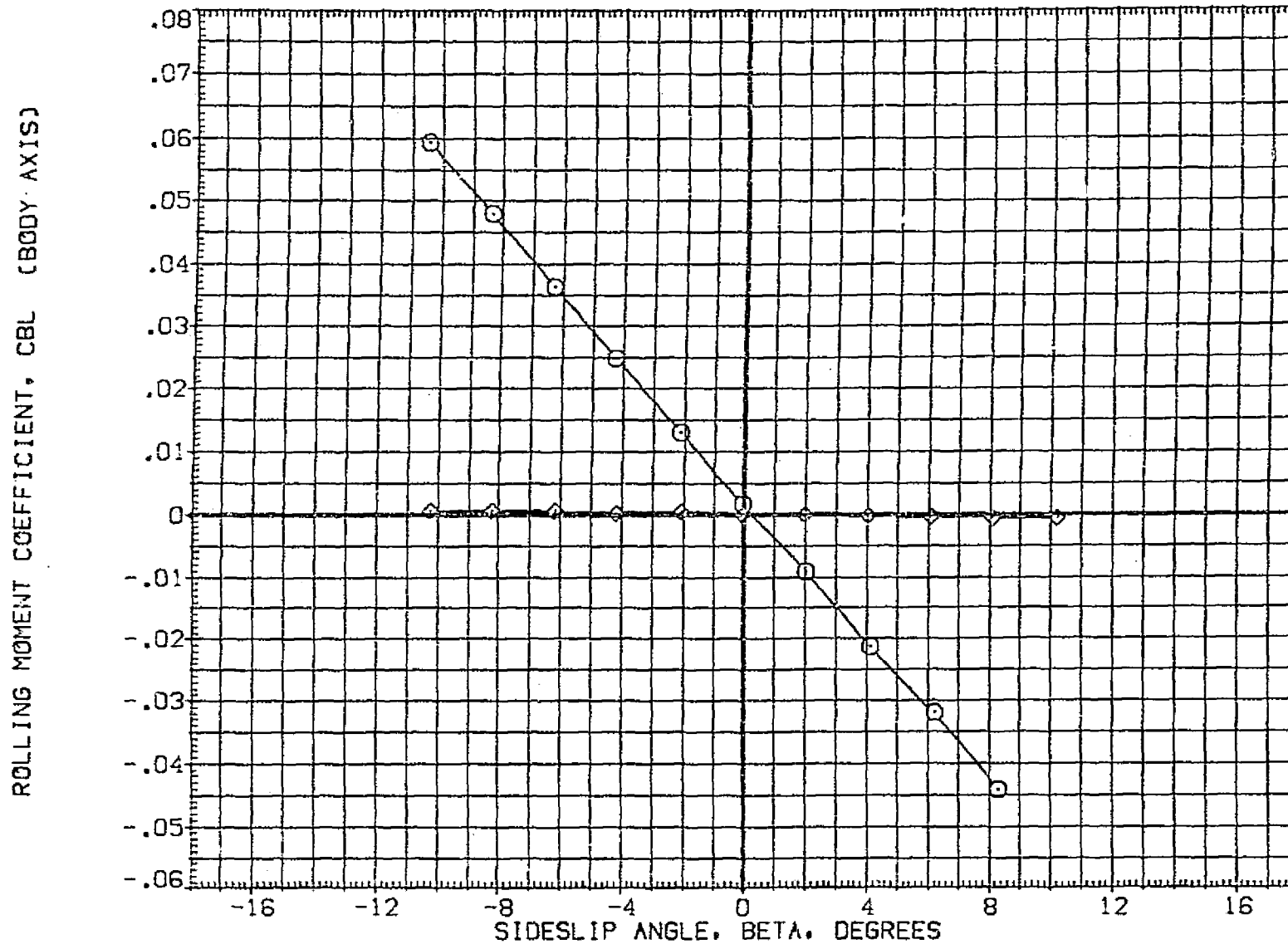


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(B-8001)	DATA NOT AVAILABLE	.000
(B-8002)	LPWT 1088/1119 (1A-44) CONFIGURATION	T4/S7
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2680.0000	SG, FT.
LREF	1280.3000	INCHES
BREF	1280.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

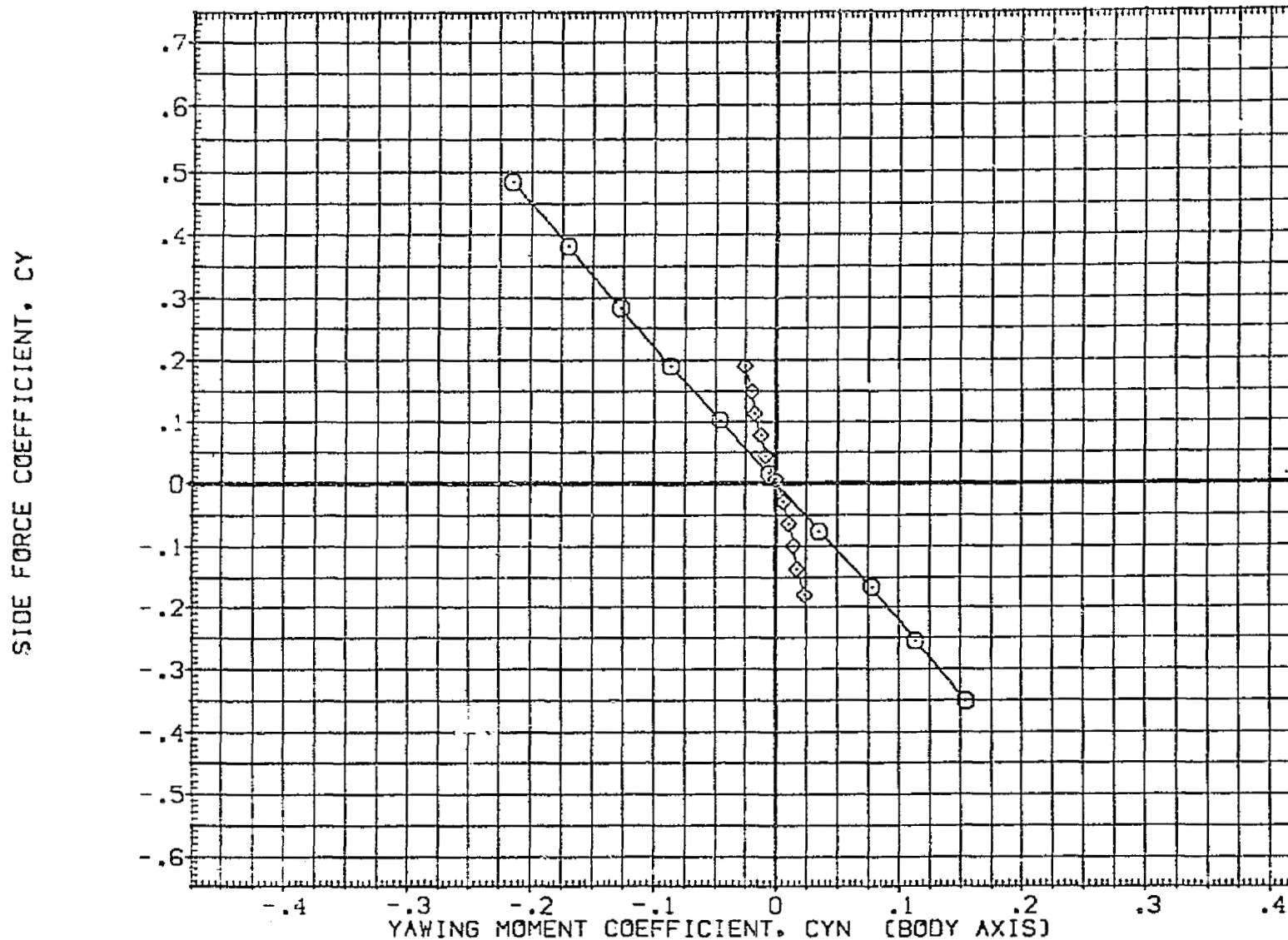


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION
(B-8004)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	.000
(B-8021)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	.000
(B-8002)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	.000
(B-8019)	UPVT 1088/1119 (1A-44) CONFIGURATION	T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

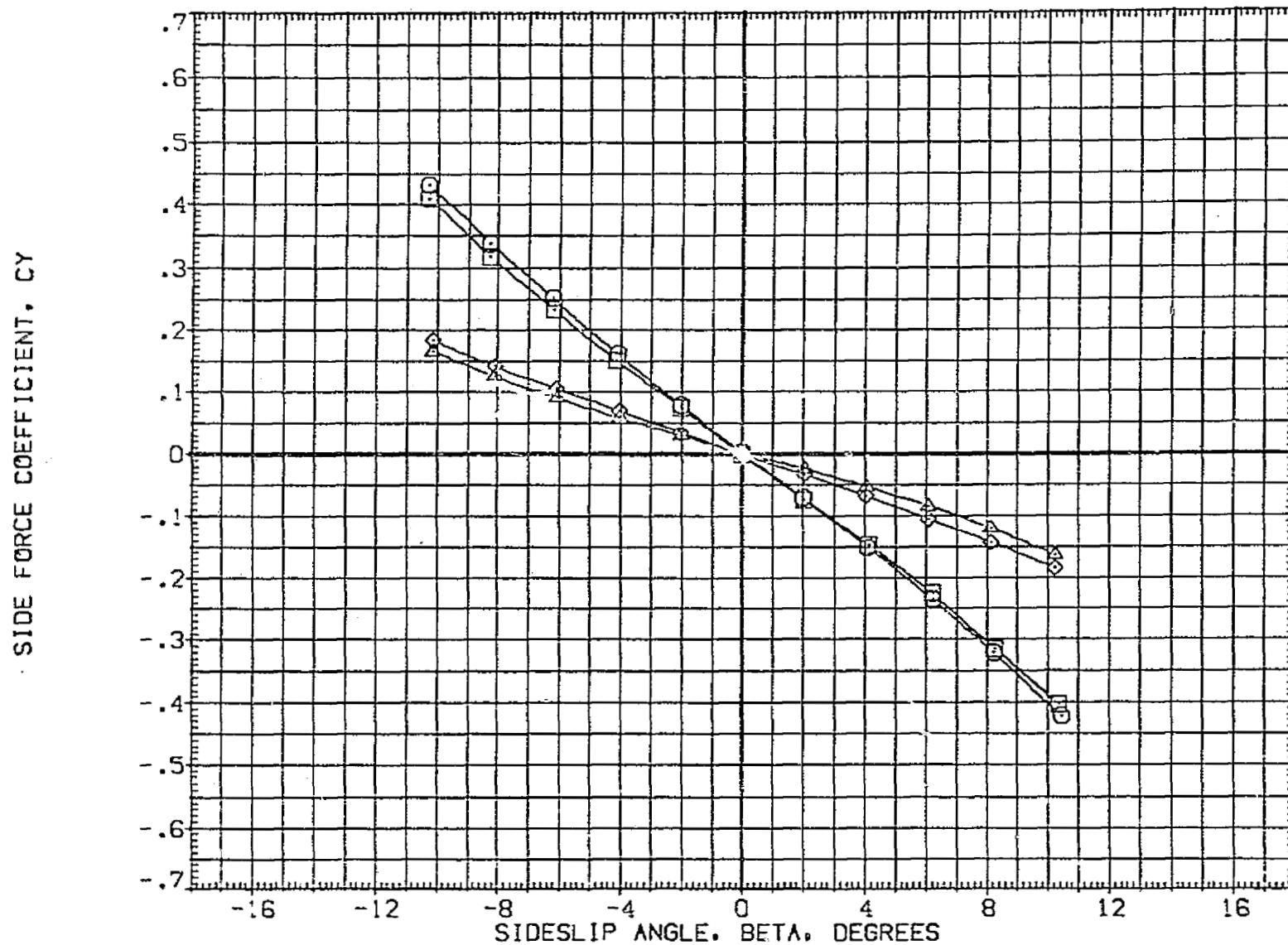


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION
(B-8004)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	SREF 2690.0000 SQ. FT.
(B-8021)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF 1290.0000 INCHES
(B-8032)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	BREF 1290.0000 INCHES
(B-8019)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4	XPRP 976.0000 IN. XT
			YPRP .0000 IN. YT
			ZYRP 400.0000 IN. ZT
			SCALE .0100

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

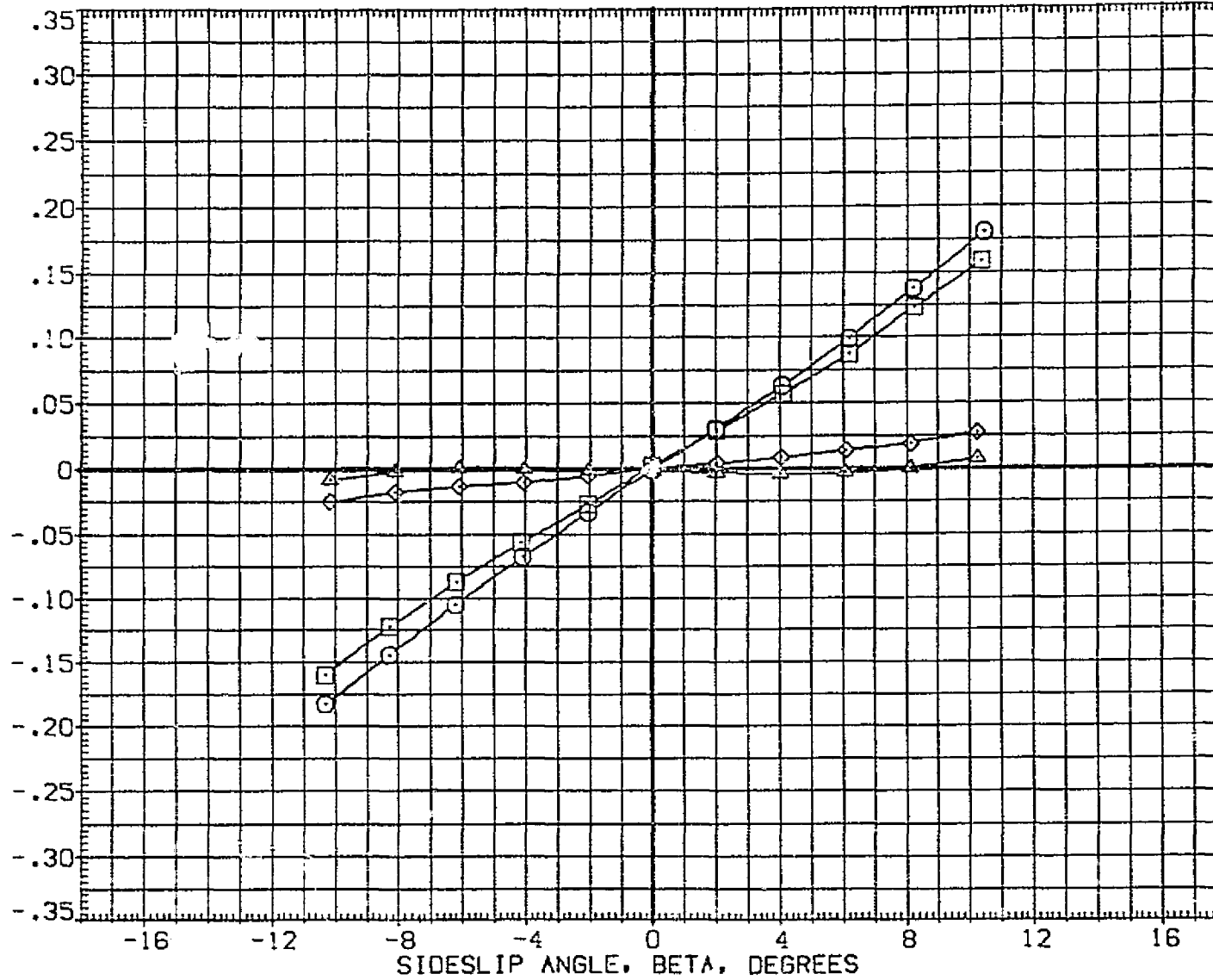


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS
 (C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	A_LPHA
(B-8004)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(B-8002)	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8019)	UPVT 1088/1119 (1A-44) CONFIGURATION T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

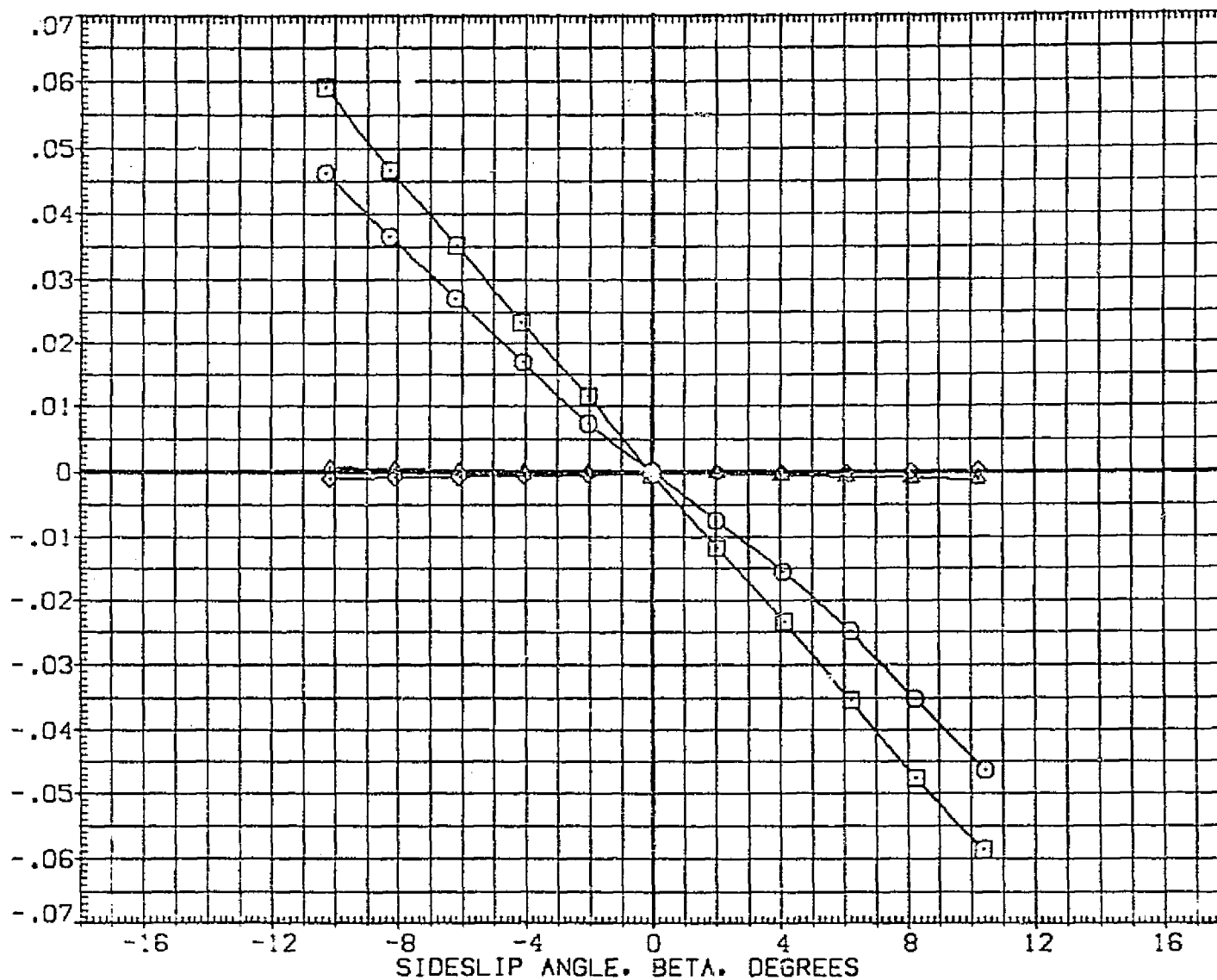


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION
(9-8004)	OPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	.000
(9-8002)	OPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	.000
(9-8002)	OPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	.000
(9-8019)	OPVT 1088/1119 (1A-44) CONFIGURATION	T4	.000

REFERENCE INFORMATION		
SREF	2680.0000	50. FT.
LREF	1290.3000	66. ES
BREF	1290.3000	66. ES
XMRP	976.0000	77. XT
YMRP	.0000	0. YT
ZMRP	400.0000	22. ZT
SCALE	.0100	

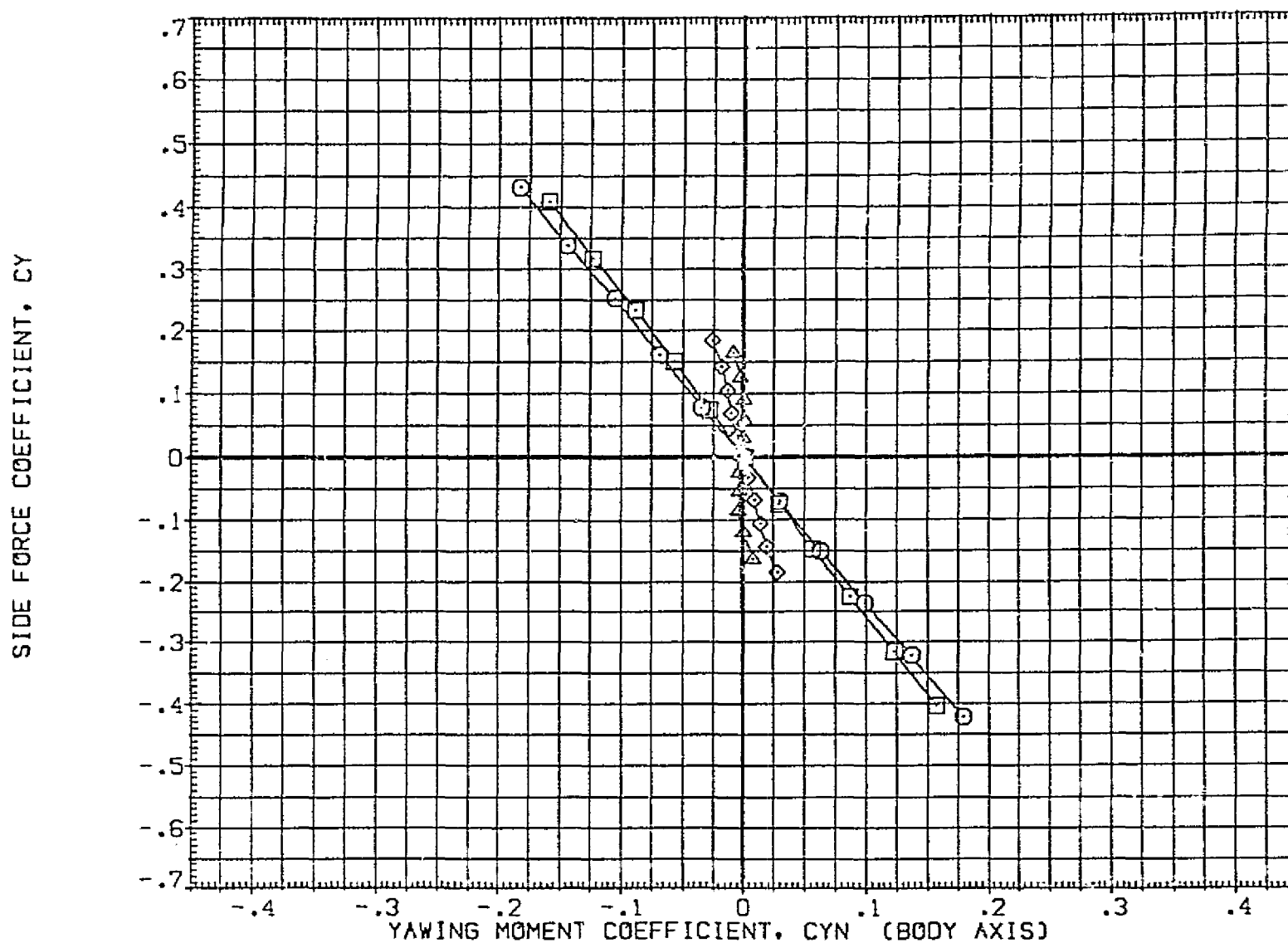


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(B-8002)	LPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	1290.3000 INCHES
BREF	1290.3000 INCHES
XMRP	976.0000 IN. XT
YMRP	.0000 IN. YT
ZMRP	400.0000 IN. ZT
SCALE	.0100

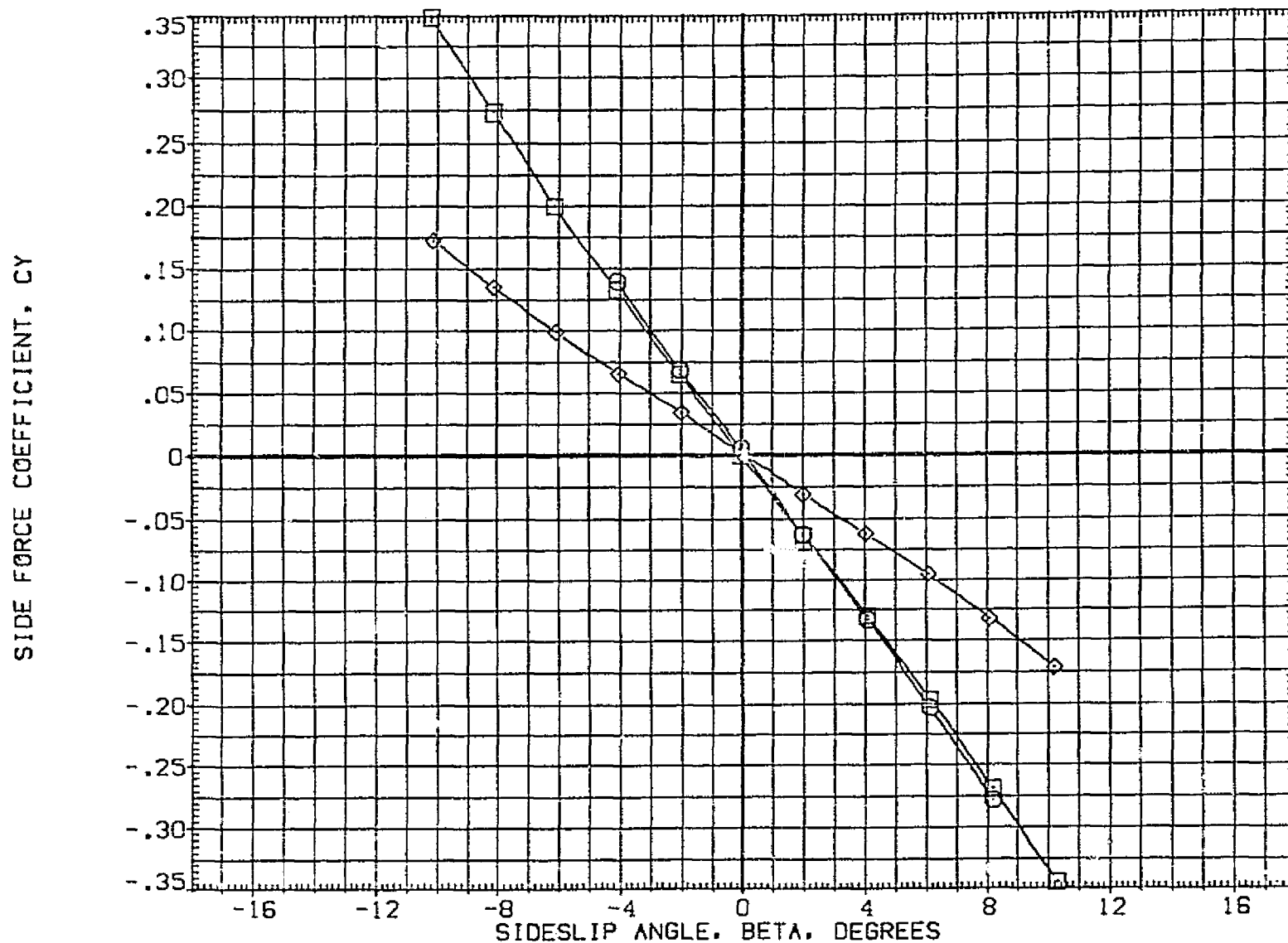


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION	
(9-8004)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	SREF	2690.0000
(9-80021)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF	1290.3000
(9-8002)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	BREF	1290.3000
(9-80:9)	DATA NOT AVAILABLE		XMRP	976.0000
			YMRP	.0000
			ZMRP	400.0000
			SCALE	.0100
				50. FT.
				77.656
				77.656
				77. X'
				77. Y'
				77. Z'

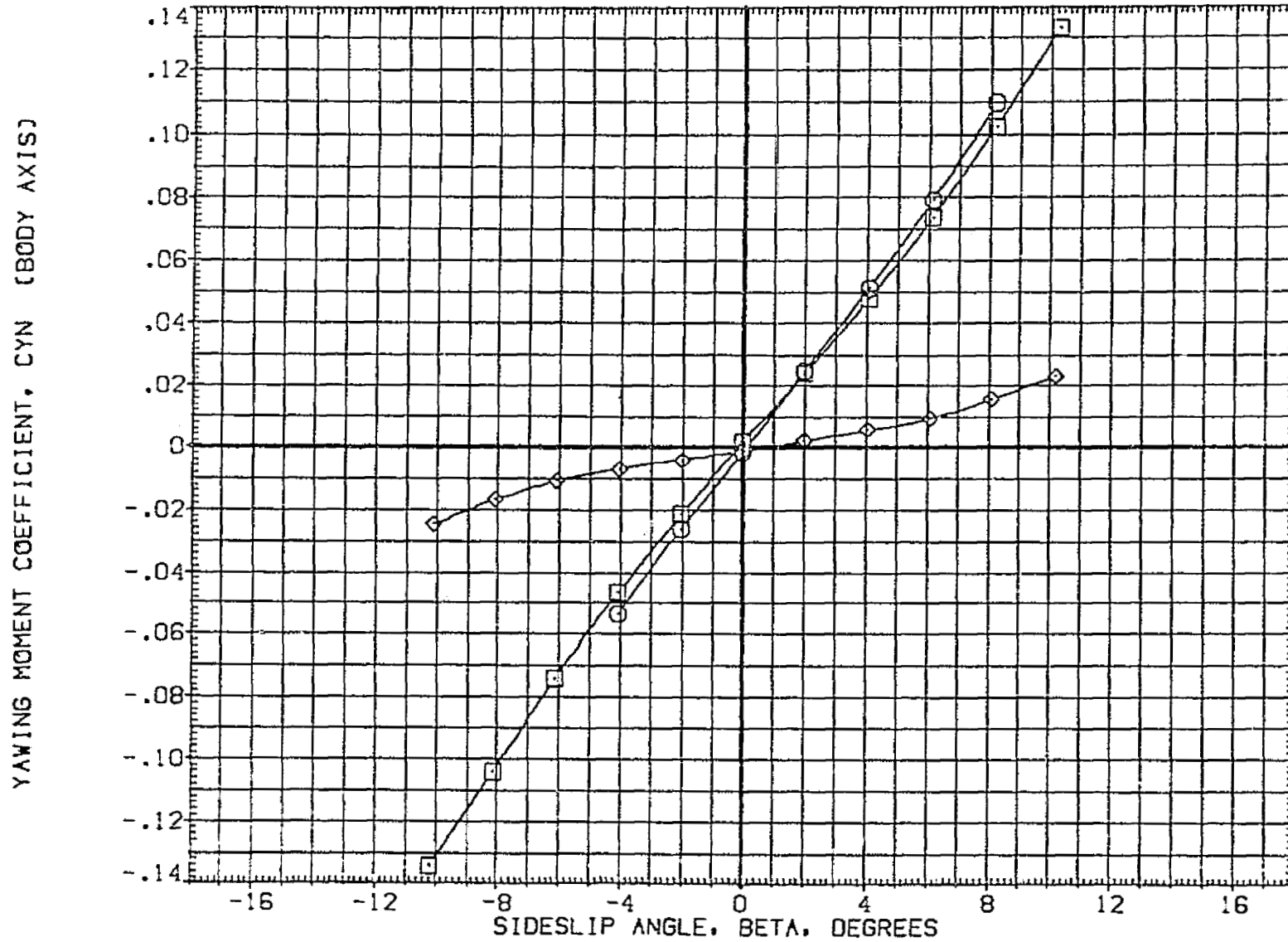


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8021)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.003
(B-8002)	UPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

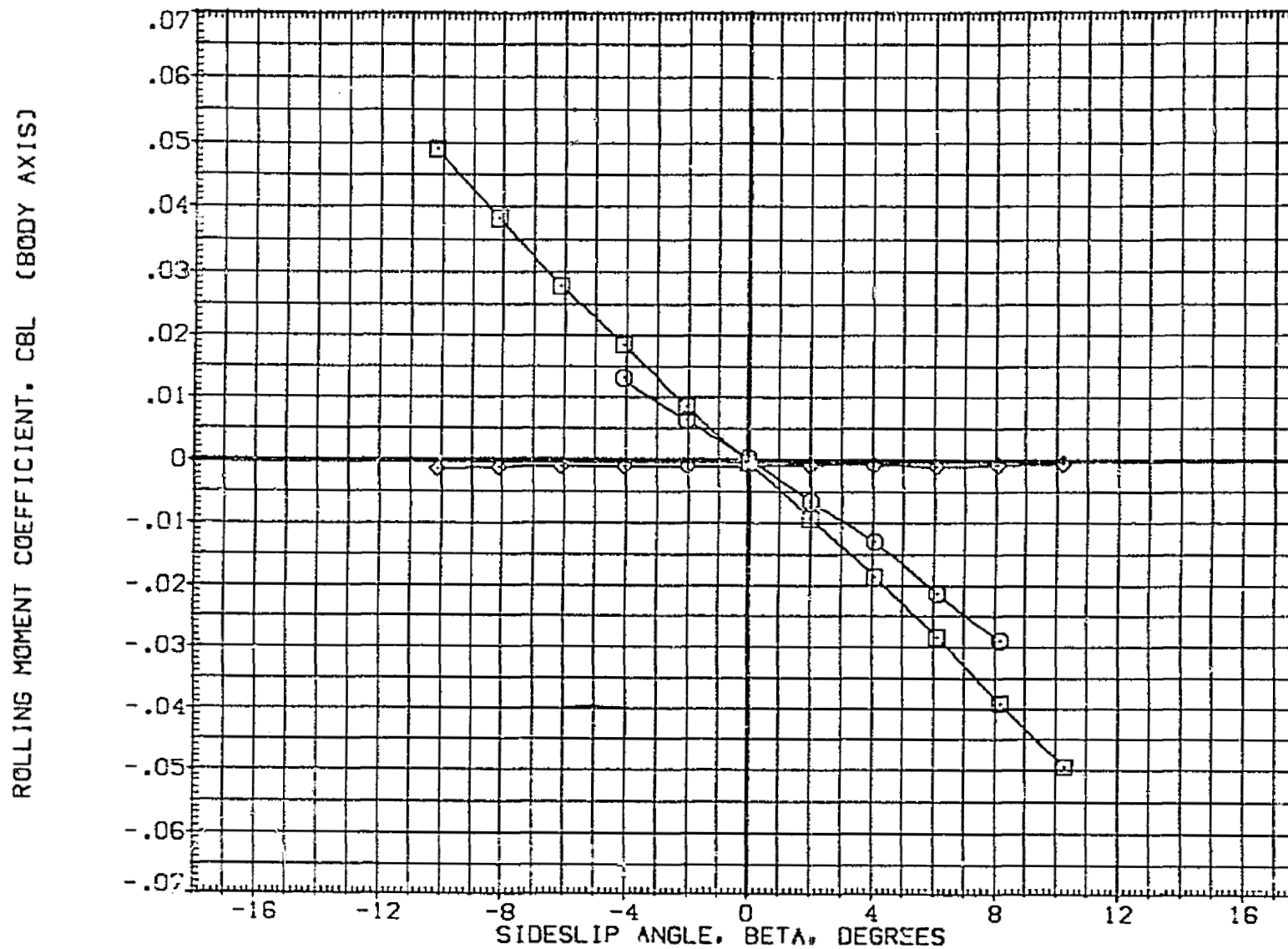


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(O)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8021)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4 .000
(B-8002)	UPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7 .000
(B-8019)	DATA NOT AVAILABLE	.000

REFERENCE INFORMATION		
SREF	2890.0000	SD, F.
LREF	1290.3000	IN, ES
BREF	1290.3000	IN, ES
XMRP	978.0000	IN, XT
YMRP	.0000	IN, YT
ZMRP	400.0000	IN, ZT
SCALE	.0100	

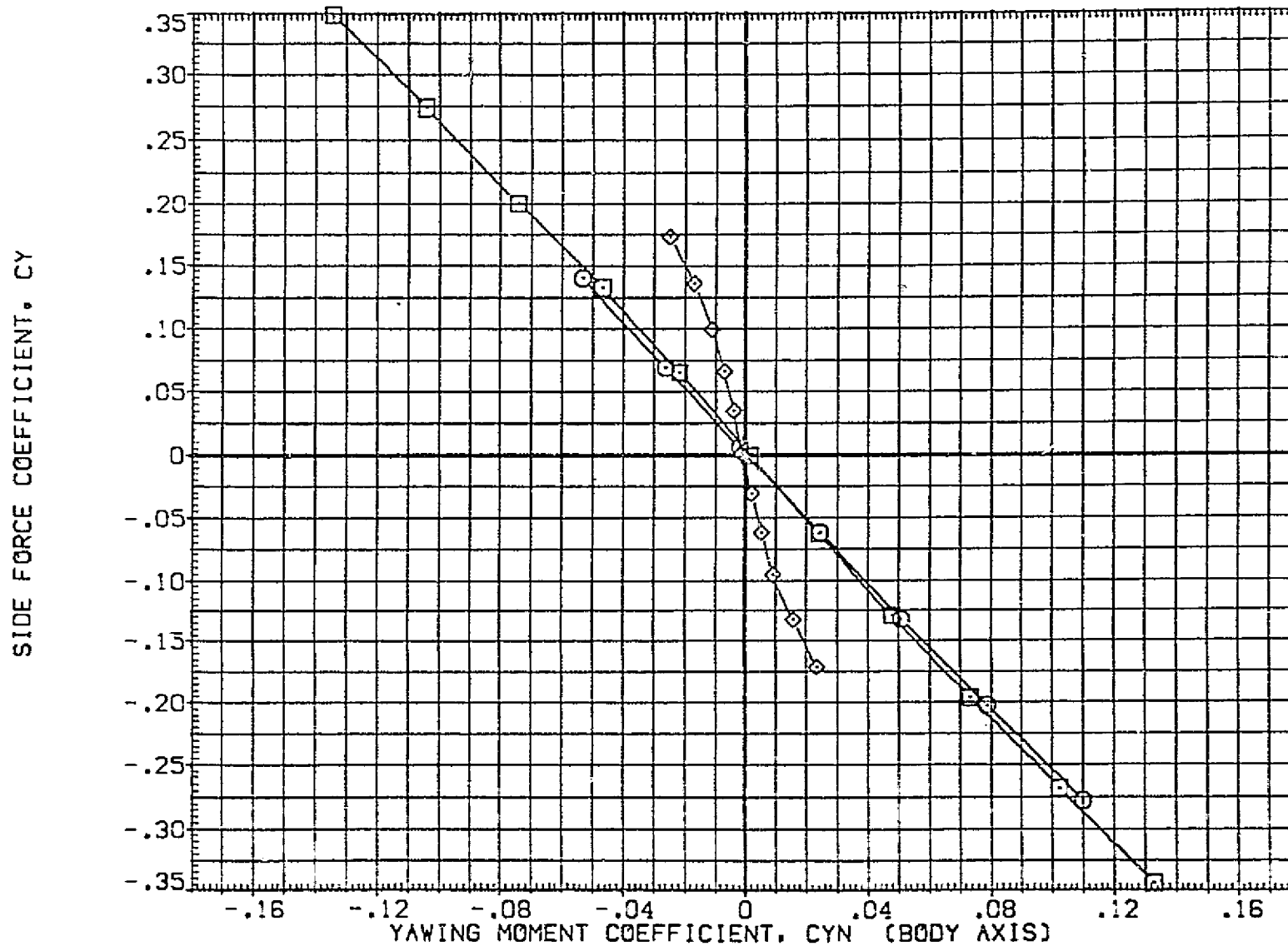


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(0)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8021)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4 .000
(B-8002)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7 .000
(B-8019)	LPVT 1088/1119 (1A-44) CONFIGURATION	T4 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	IN.-ES
BREF	1290.3000	IN.-ES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

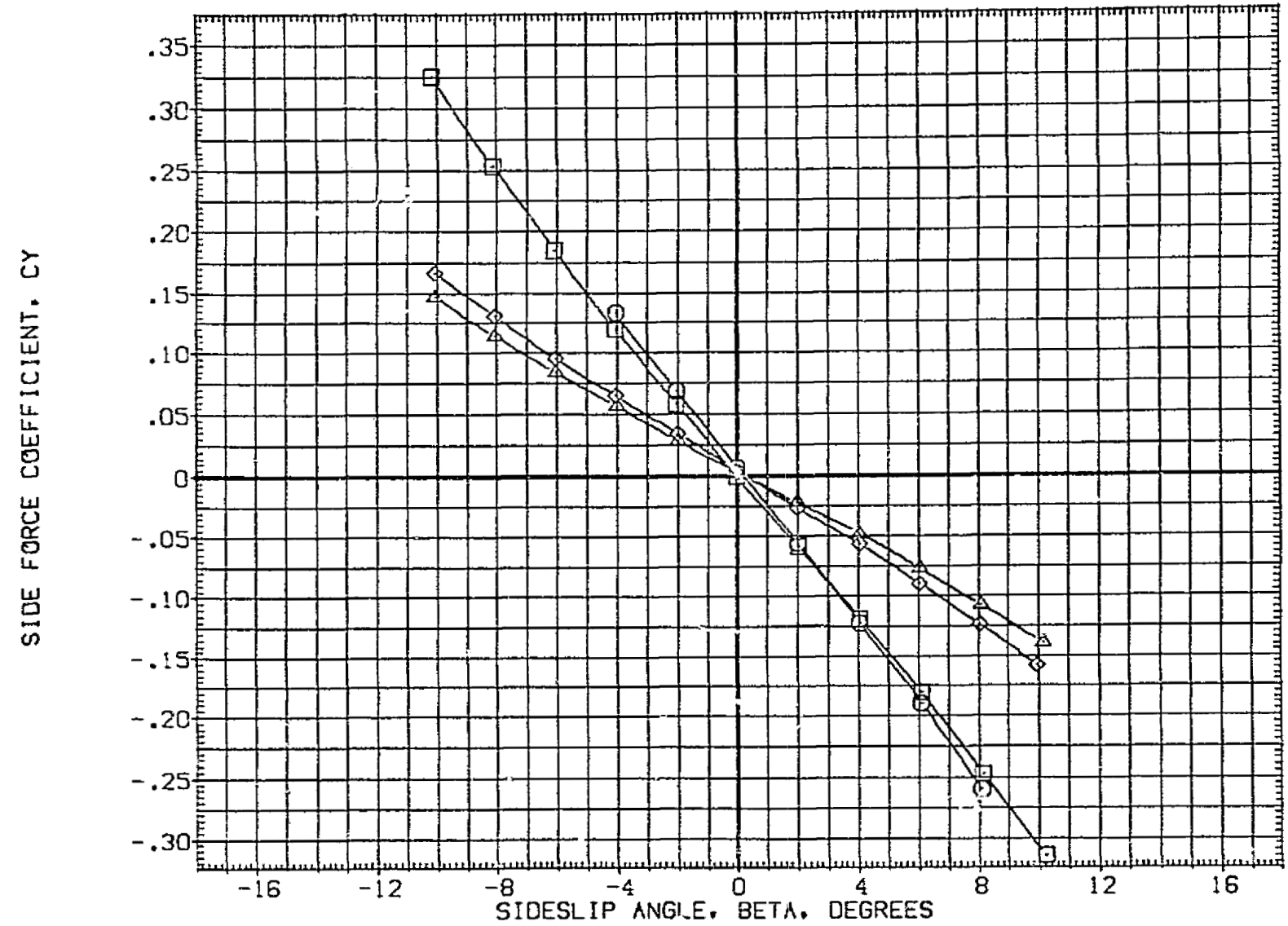


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.60

DATA SET SYMBO	CONFIGURATION DESCRIPTION	ALPHA
(9-8004)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8021)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4	.000
(9-8002)	LPVT 1088/1119 (1A-44) CONFIGURATION T4/S7	.000
(9-8019)	LPVT 1088/1119 (1A-44) CONFIGURATION T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XREF	976.0000	IN. XT
YREF	.0000	IN. YT
ZREF	400.0000	IN. ZT
SCALE	.0100	

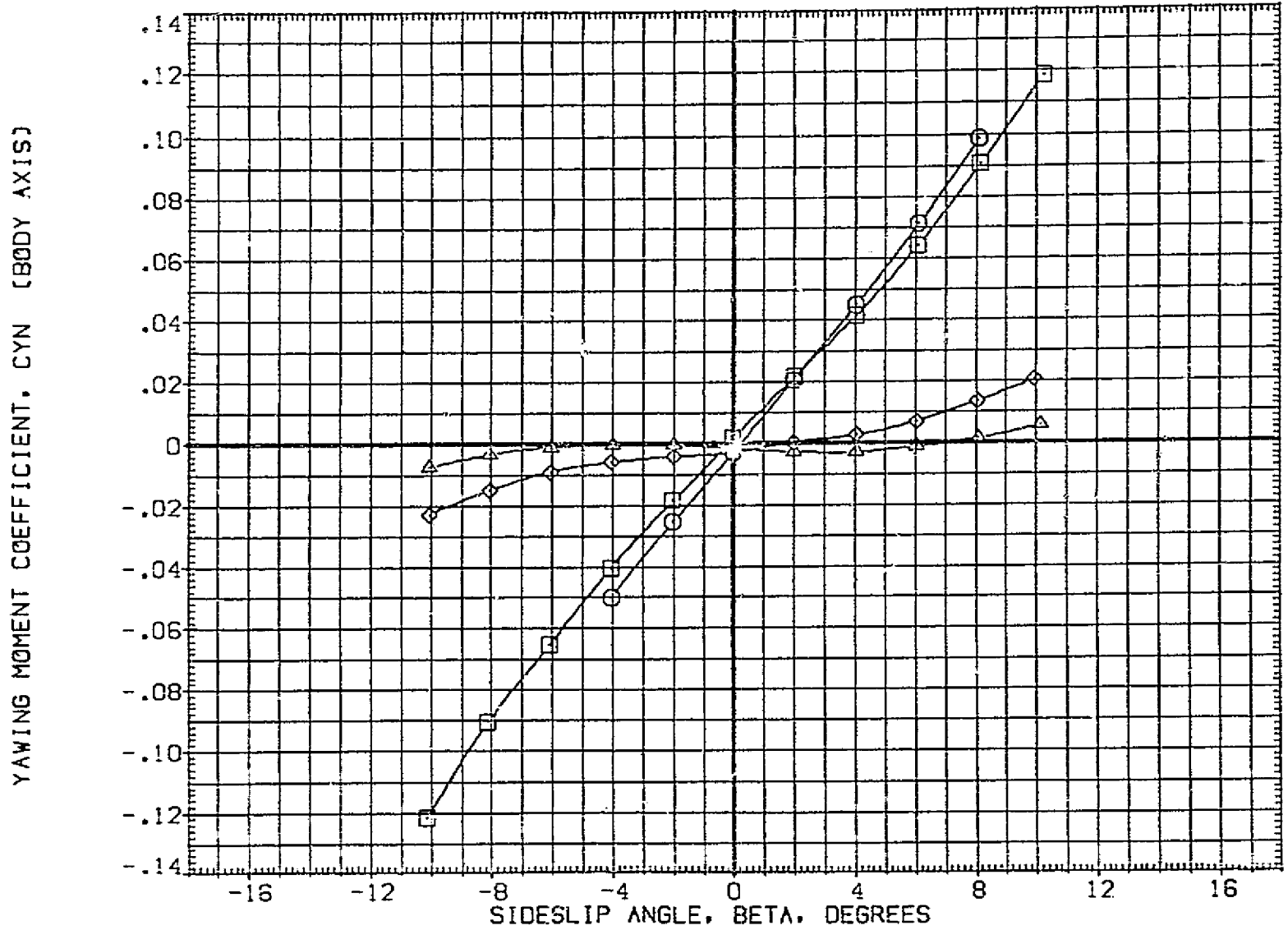


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS
 (E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION	
(B-8004)	□ UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	SREF	2690.0000 SQ.FT.
(B-8021)	○ UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4	LREF	1290.3000 INCHES
(B-8002)	◇ UPVT 1088/1119 (1A-44) CONFIGURATION	T4/S7	BREF	1290.3000 INCHES
(B-8019)	△ UPVT 1088/1119 (1A-44) CONFIGURATION	T4	XMRP	576.0000 IN. XT
			YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

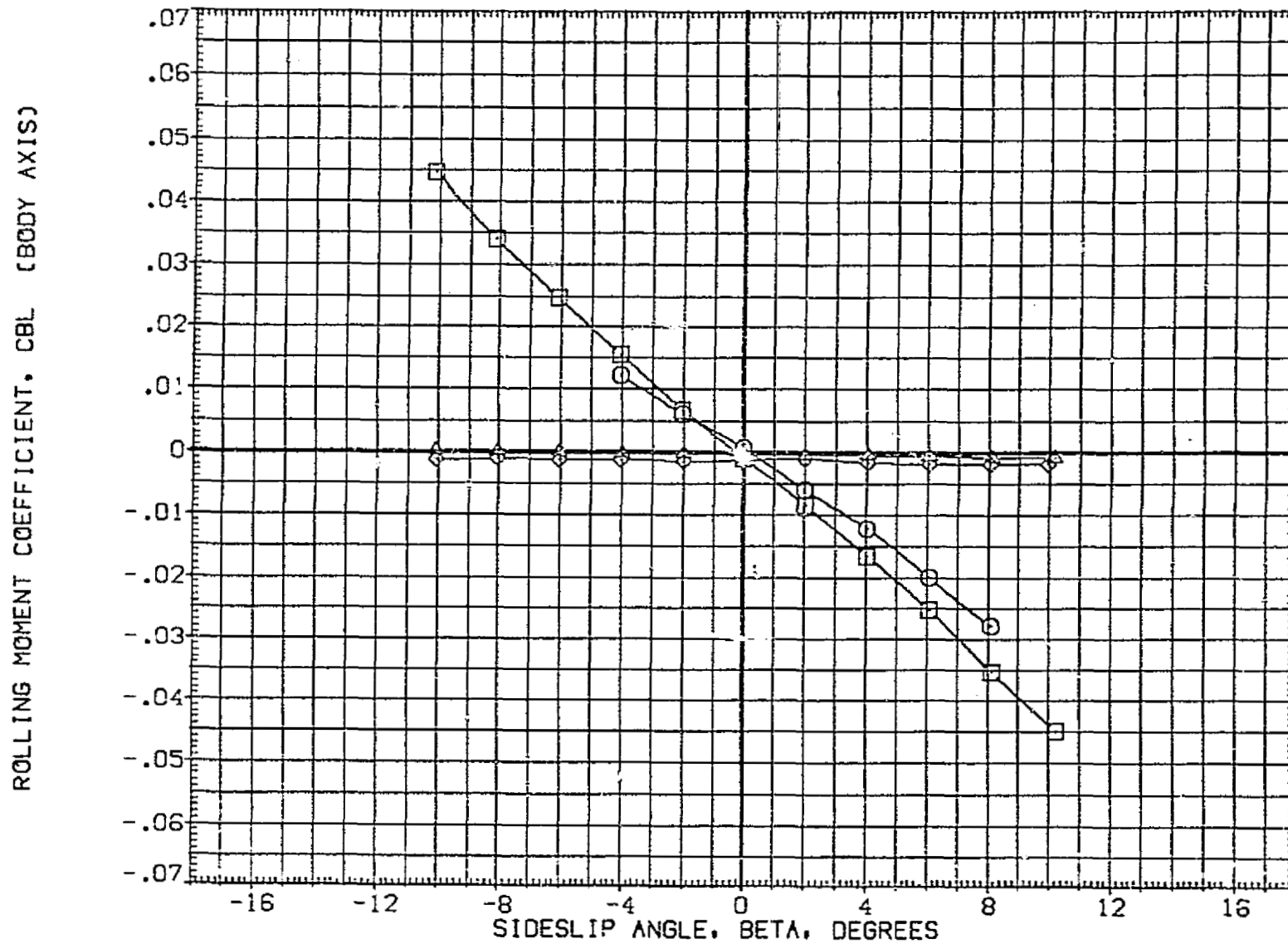


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION
(B-8004)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	.000
(B-8021)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4	.000
(B-8002)	LPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7	.000
(B-8019)	LPVT 1088/1119 (IA-44) CONFIGURATION	T4	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

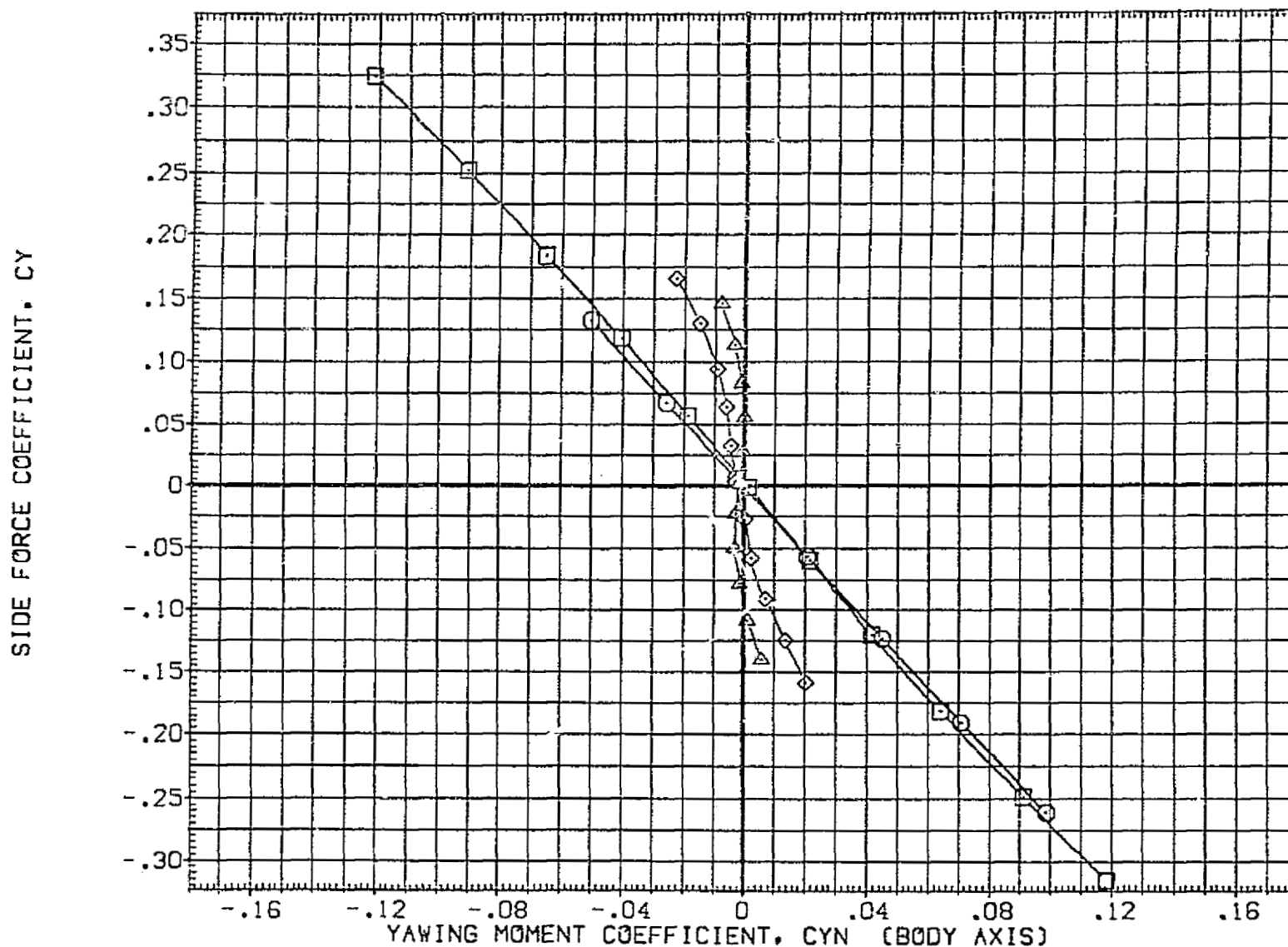


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-8004)	LARC 8FT/UPWT([A-43,44) CONFIGURATION	02/T4/S7
(B-8021)	UPWT 1088/1119 ([A-44) CONFIGURATION	02/T4
(B-8002)	UPWT 1088/1119 ([A-44) CONFIGURATION	T4/S7
(B-8015)	UPWT 1088/1119 ([A-44) CONFIGURATION	T4

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	576.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

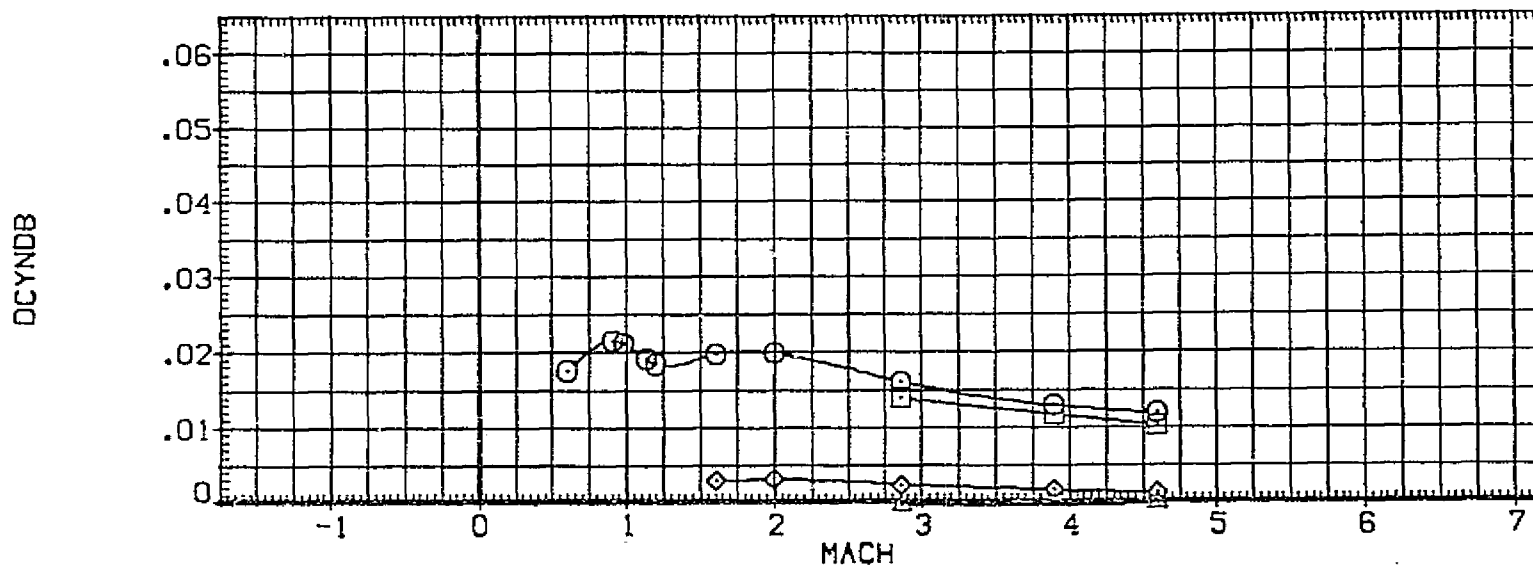
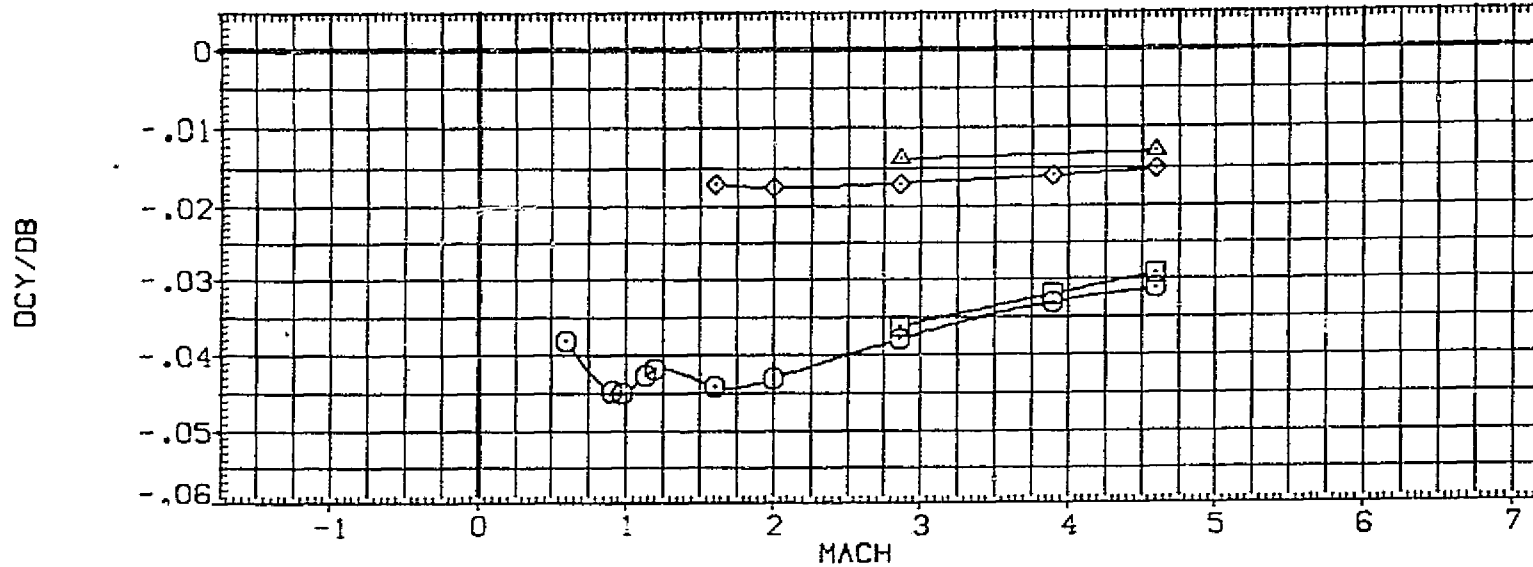


FIGURE 5 CONFIGURATION BUILD-UP EFFECTS ON LAT.-DIRECT. CHARACTERISTICS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8020)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4 .000
(B-8001)	UPVT 1088/1119 (IA-44) CONFIGURATION	T4/S7 .000
(B-8018)	UPVT 1088/1119 (IA-44) CONFIGURATION	T4 .000

REFERENCE INFORMAT	
SREF	2650.0000 S
LREF	1290.3000
BREF	1290.3000
TREF	976.0000
TREF	.0000
TREF	.0000
TREF	400.0000
SCALE	.0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

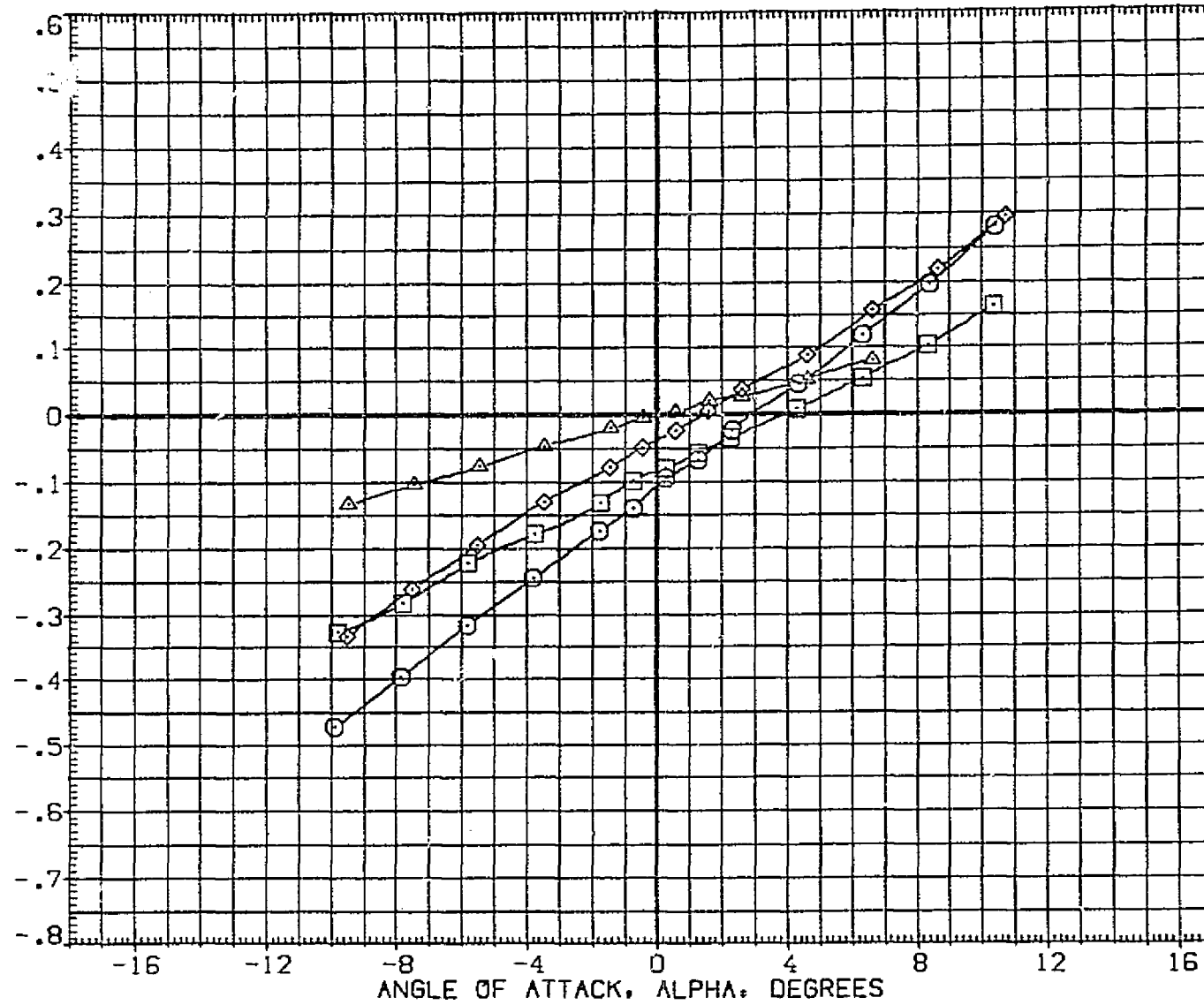


FIGURE 4 CONFIGURATION BUILD-UP EFFECTS ON LONGITUDINAL CHARACTERISTICS

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◇	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

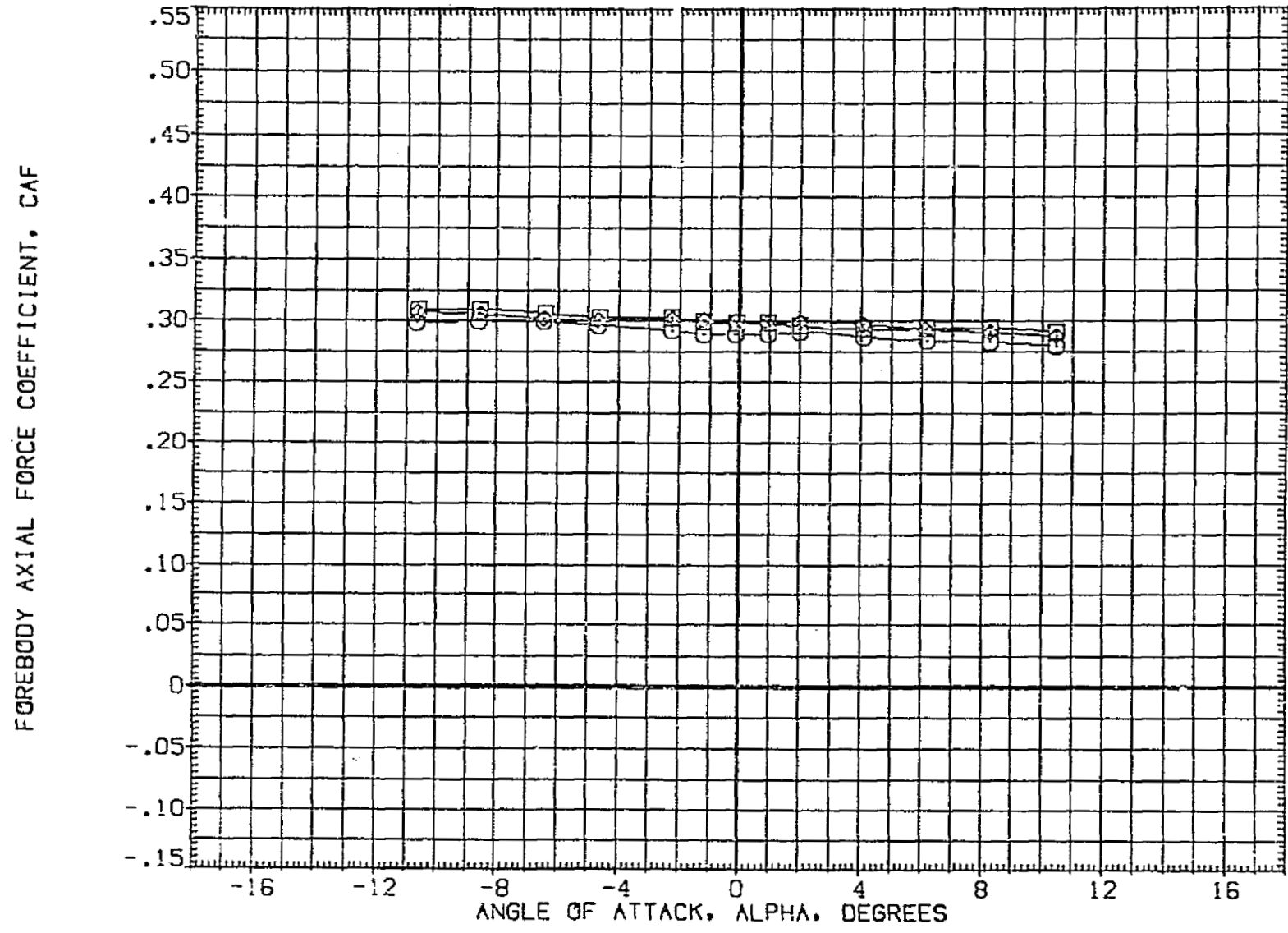


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57	-4.000
(B-8003) □	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57	.000
(B-8005) ◇	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

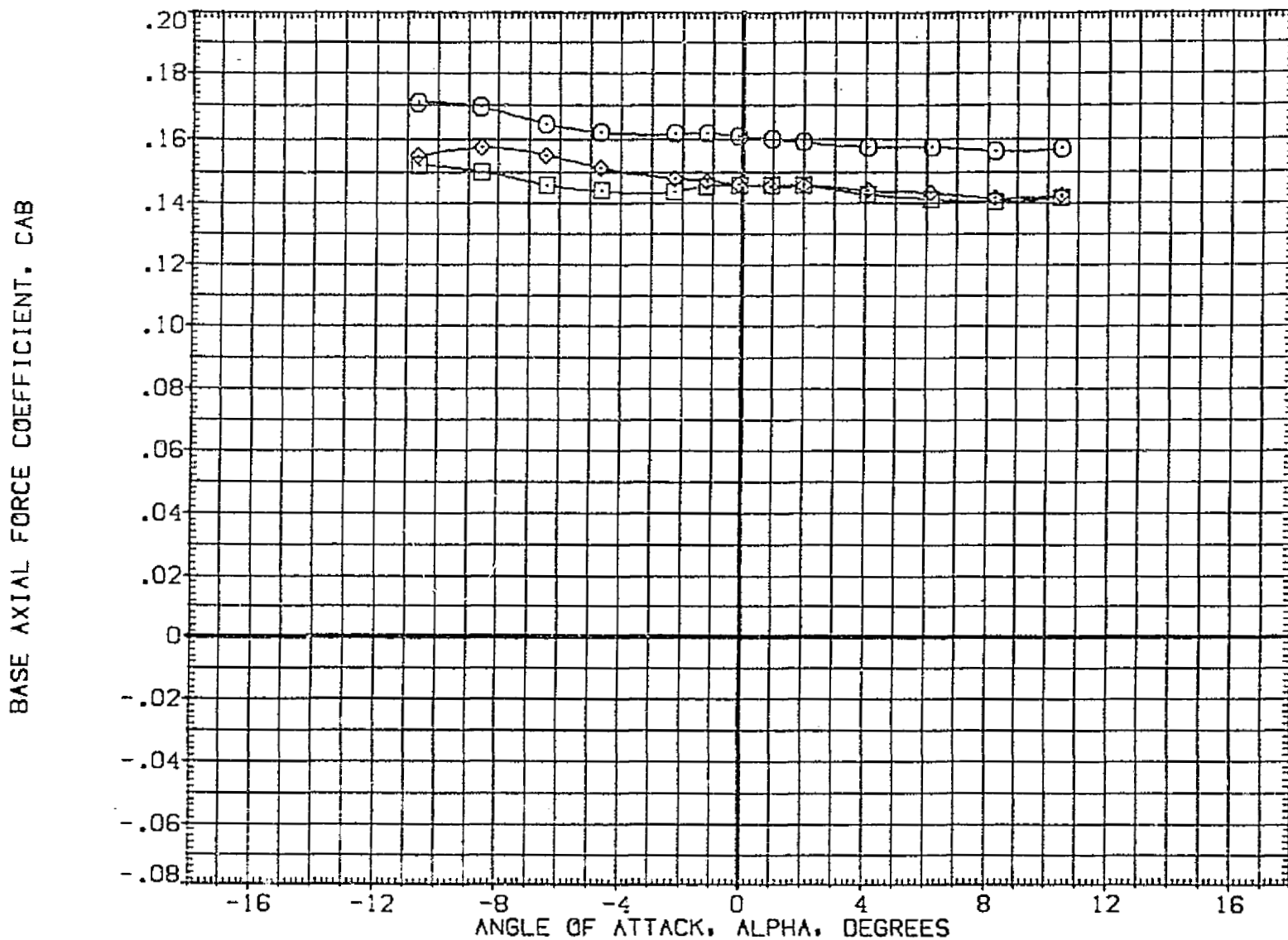


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) □	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 -4.000
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8005) ◇	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

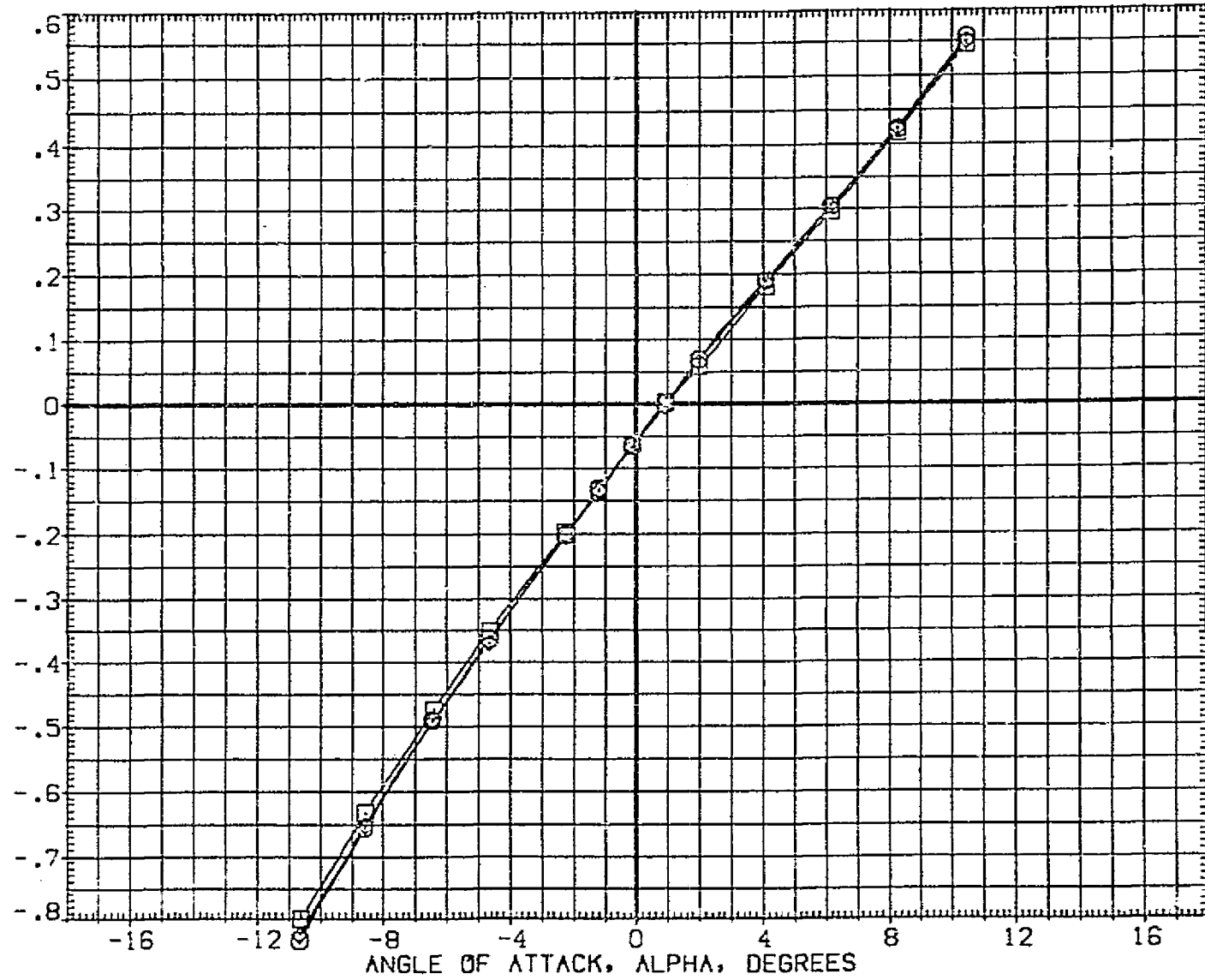


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ⊗	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2650.0000	SO. FT.
LREF	1290.3000	INC. IN
BREF	1290.3000	INC. IN
XREF	976.0000	IN. XT
YREF	.0000	IN. YT
ZREF	400.0000	IN. ZT
SCALE	.0100	

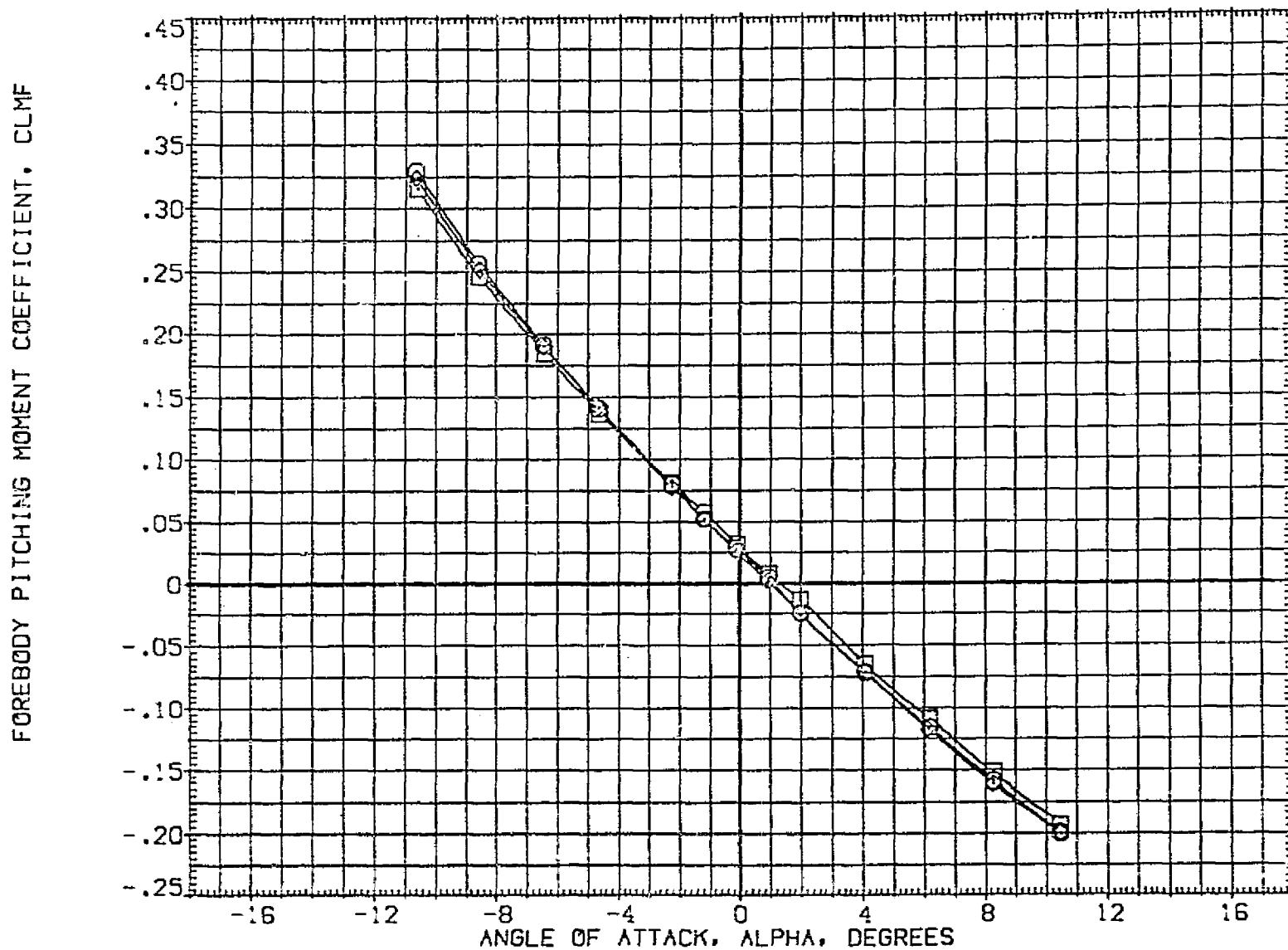


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006)	□ UPVT :088/1119 (1A-44) CONFIGURATION	02/T4/S7 -4.000
(B-8003)	○ UPVT :088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8005)	◇ UPVT :088/1119 (1A-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. XT
ZMRP	400.0000	IN. XT
SCALE	.0100	

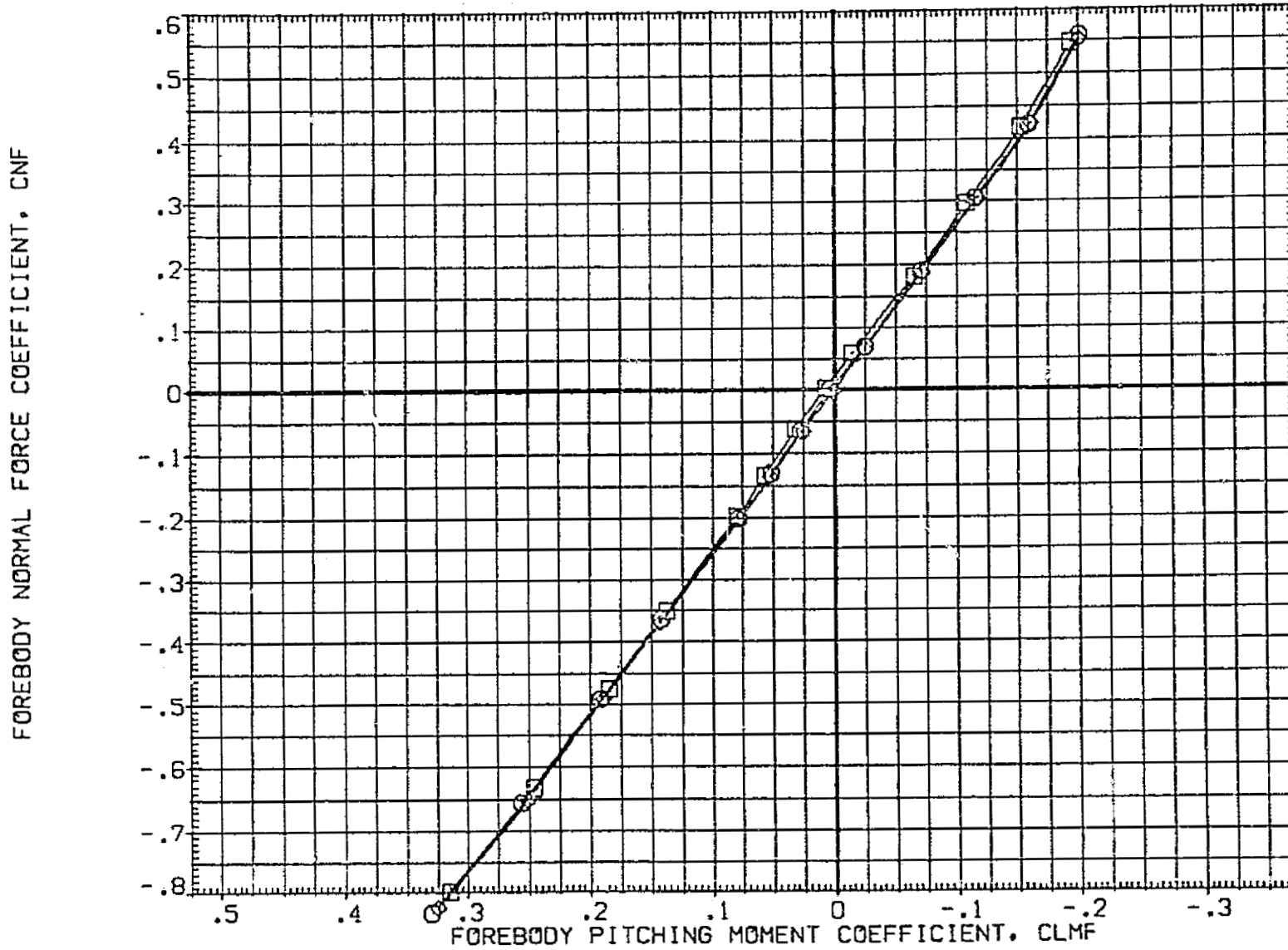


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◊	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

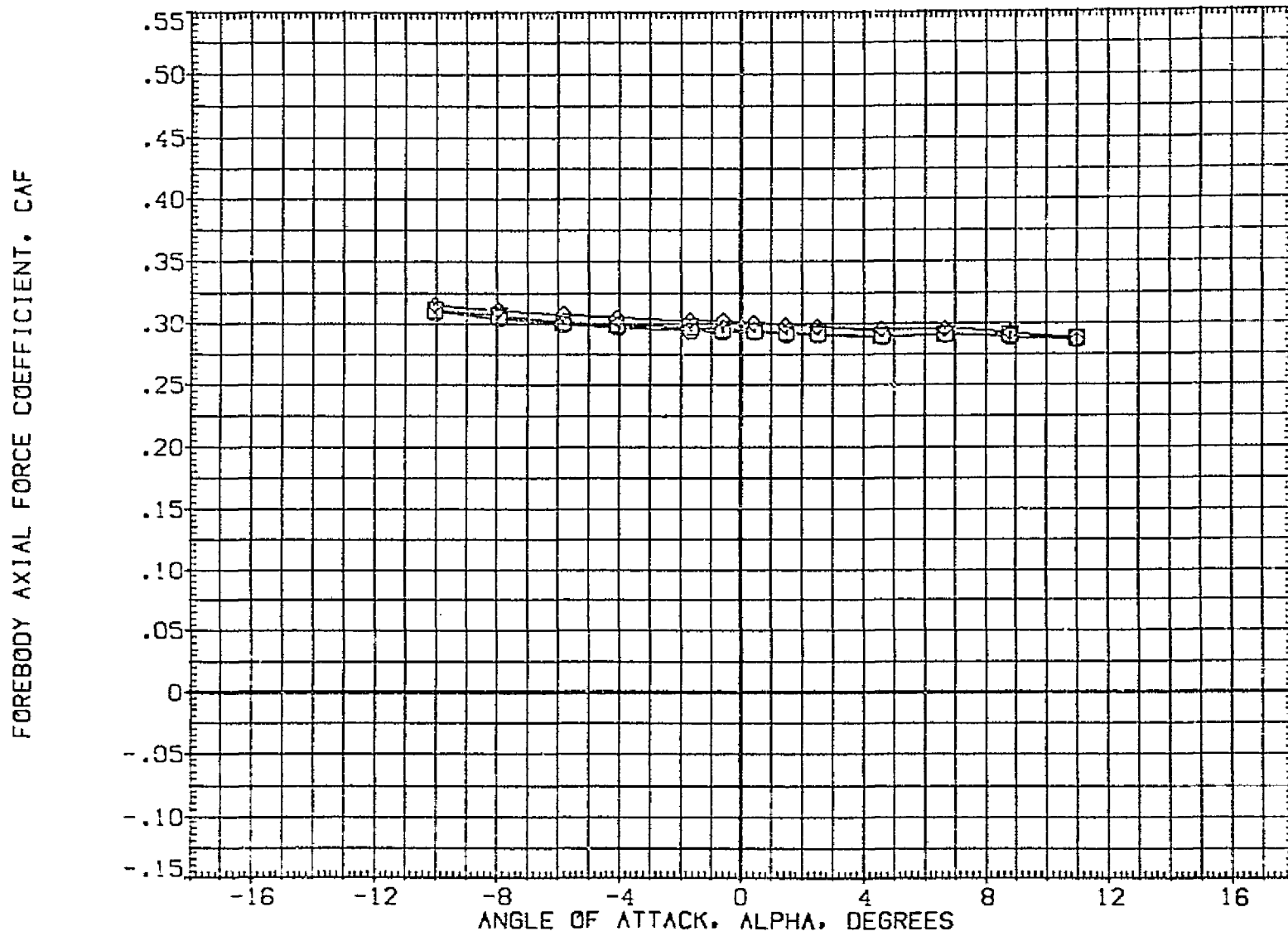


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(9-8006)	UPWT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	-4.000	SREF 2690.0000 SQ.FT.
(9-8003)	UPWT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	.000	LREF 1290.3000 INCHES
(9-8005)	UPWT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	4.000	BREF 1290.3000 INCHES
				XMRB 976.0000 IN. XT
				YMRB .0000 IN. YT
				ZMRB 400.0000 IN. ZT
				SCALE .0100

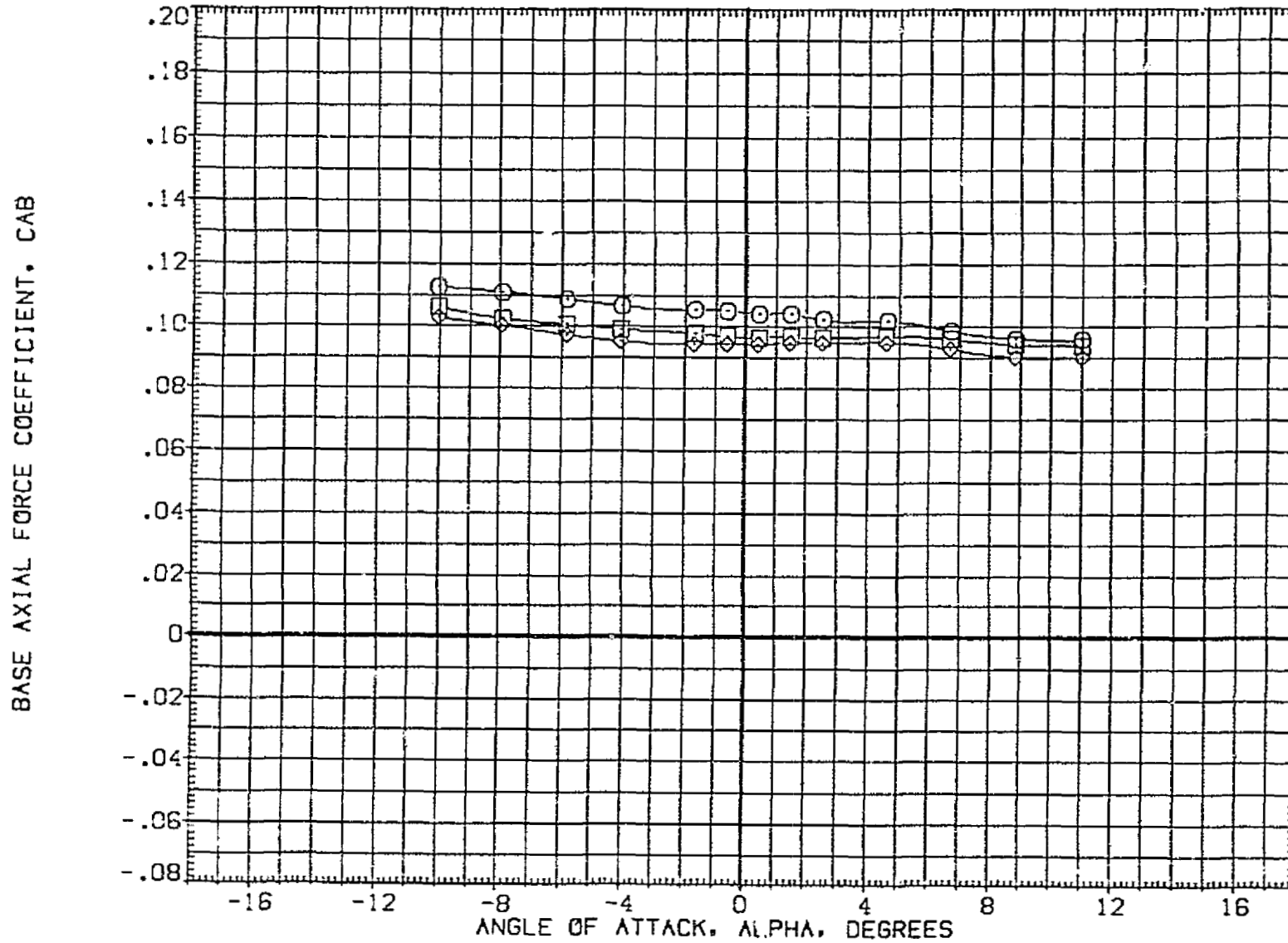


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (3)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	100. INCHES
BREF	1290.3000	100. INCHES
XMRP	976.0000	100. INCHES
YMRP	.0000	0. INCHES
ZMRP	400.0000	100. INCHES
SCALE	.0100	

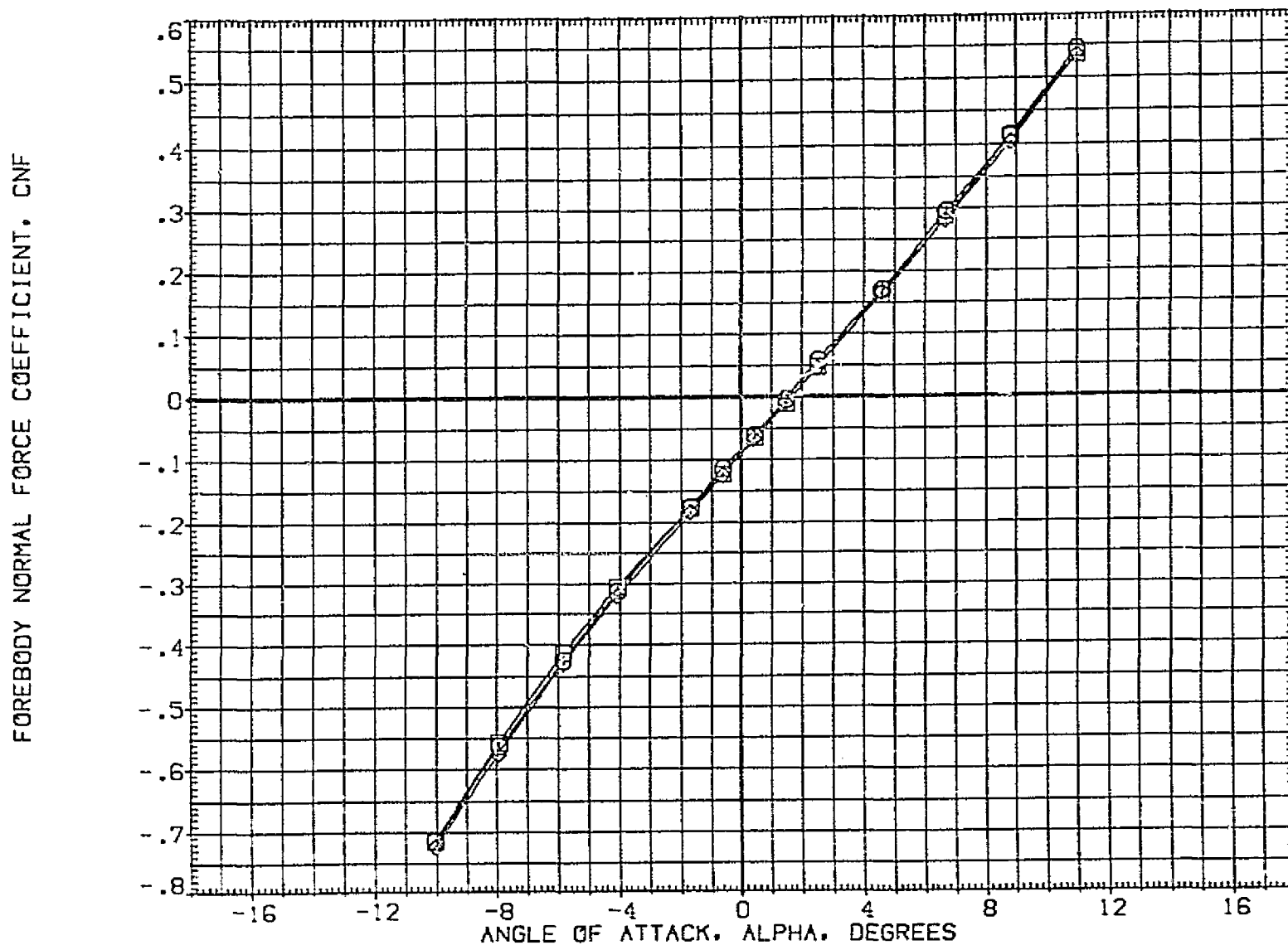


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ×	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

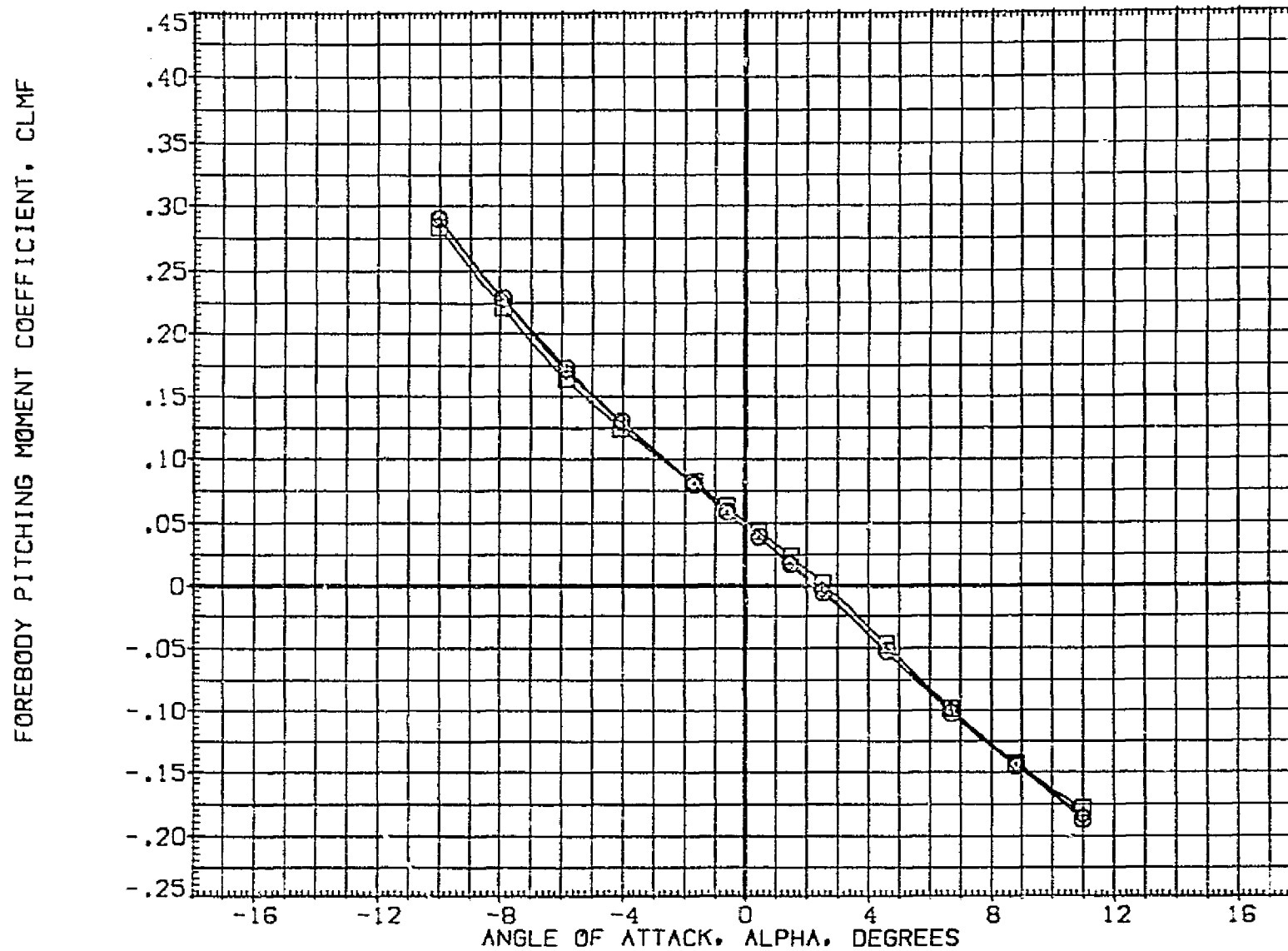


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(3)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) \square	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 -4.000
(B-8003) \square	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8005) \square	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SR REF	2890.0000	50
BL REF	1280.9000	70
BR REF	1280.9000	70
X REF	976.0000	100
Y REF	.0000	100
Z REF	400.0000	100
SCALE	.0100	100

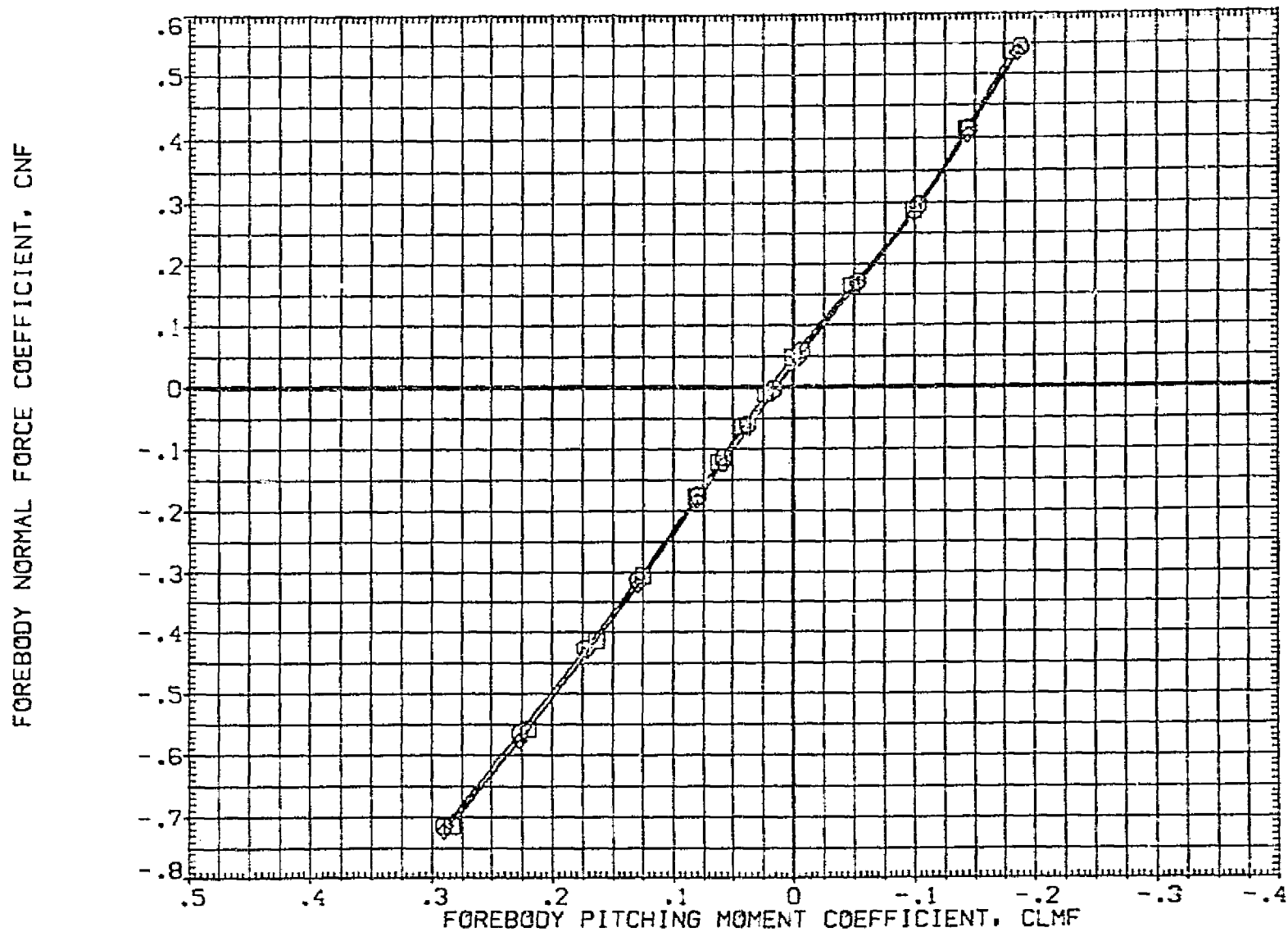


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 -4.000
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8005)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

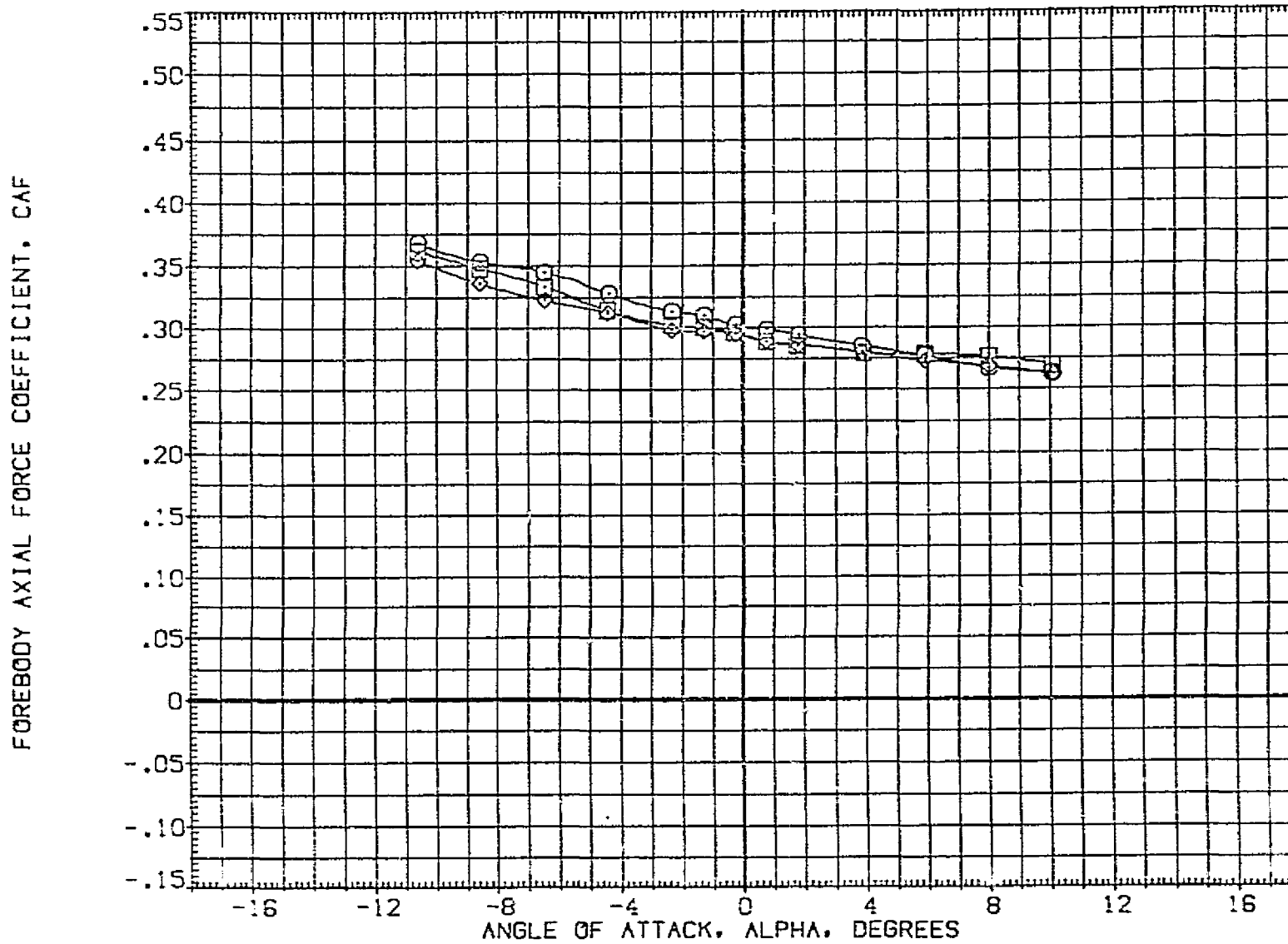


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(3-8006)	UPVT 1088/1119 [1A-44] CONFIGURATION	02/T4/S7 -4.000
(3-8003)	UPVT 1088/1119 [1A-44] CONFIGURATION	02/T4/S7 .000
(3-8005)	UPVT 1088/1119 [1A-44] CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	SG, FT.
LREF	1290.3000	INC, DEG
BREF	1290.3000	INC, DEG
XMRP	975.0000	IN, XT
YMRP	.0000	IN, YT
ZMRP	400.0000	IN, ZT
SCALE	.0100	

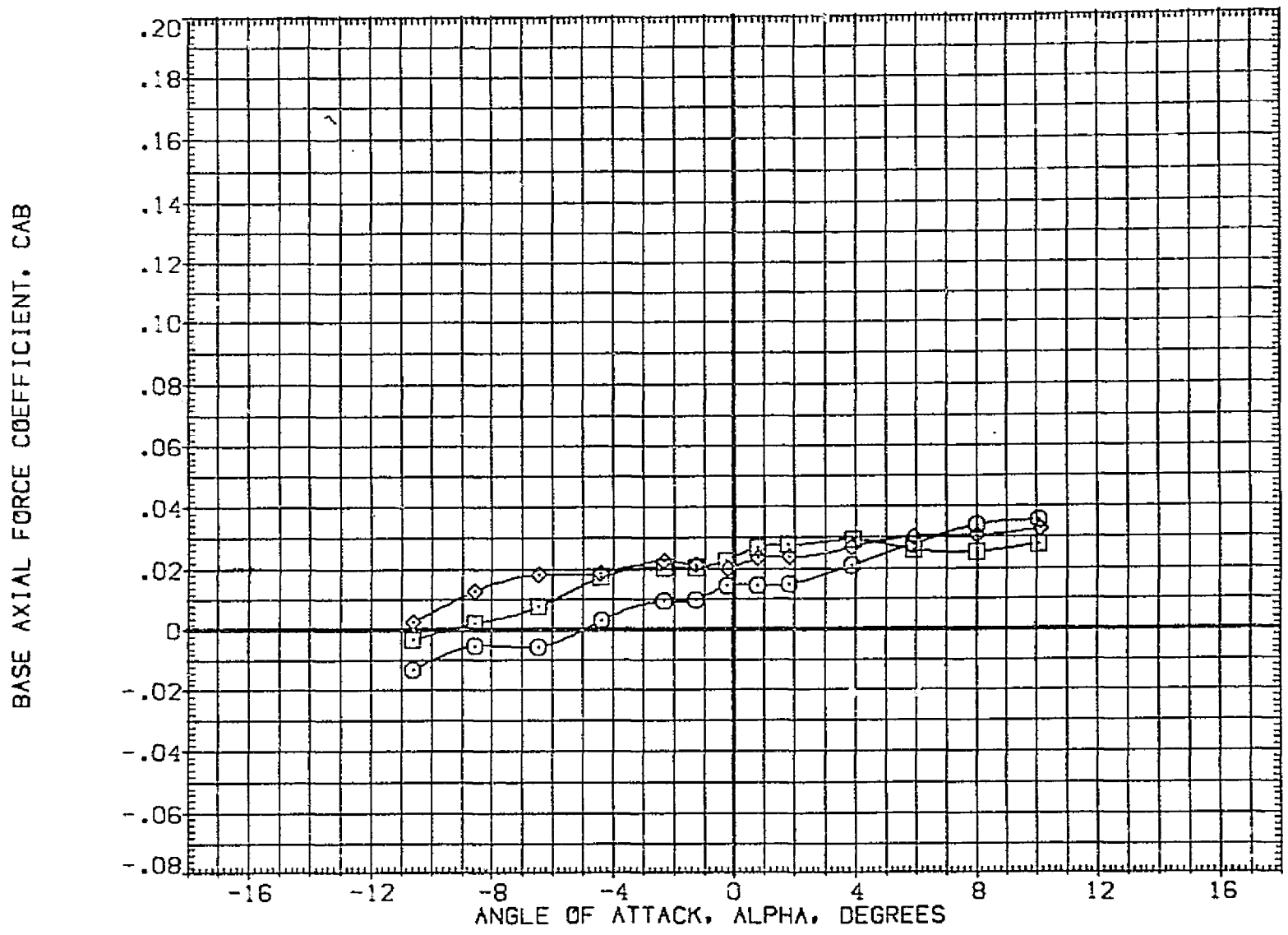


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) □	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◇	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	975.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

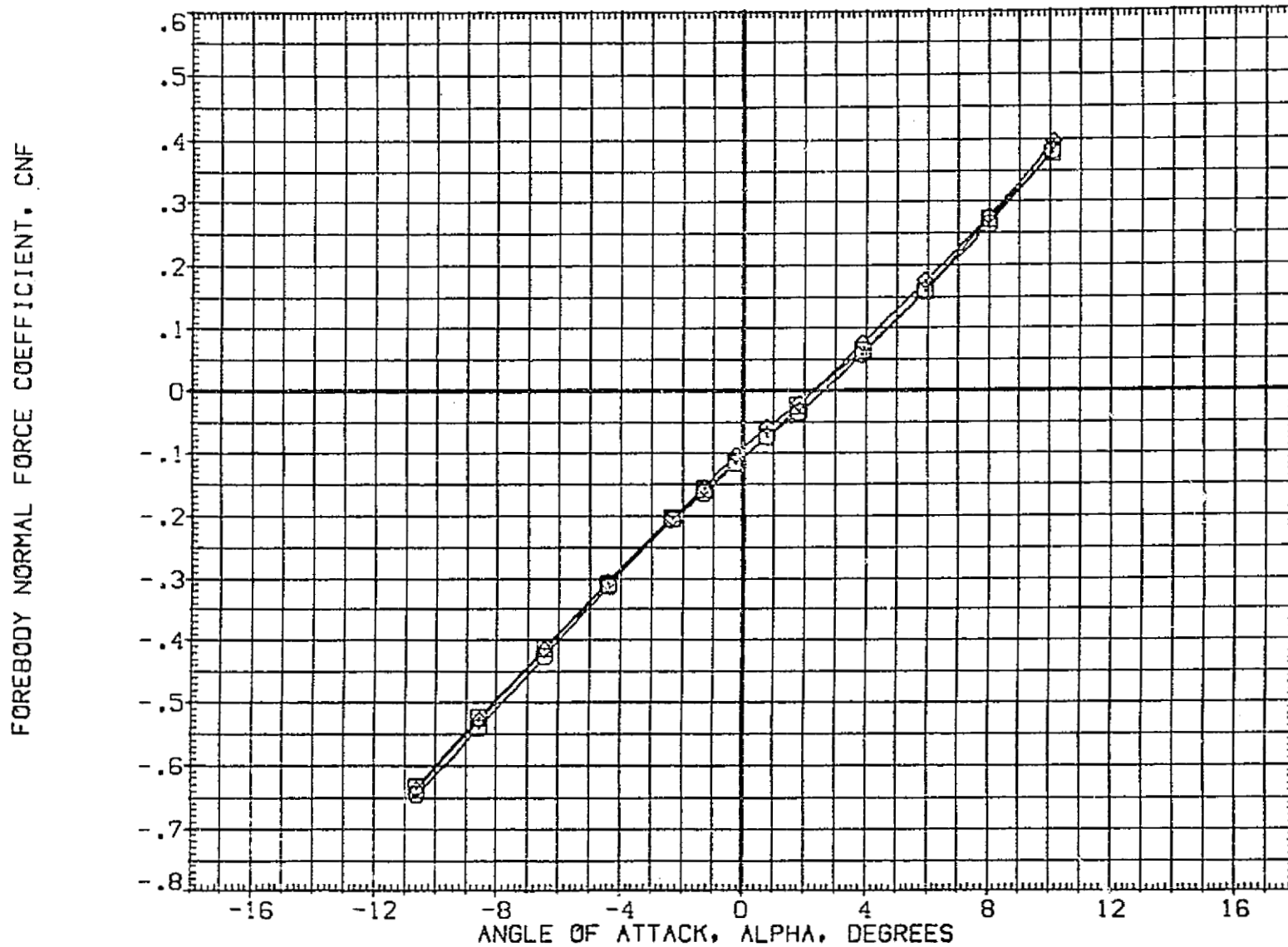


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) ○	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◇	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	



FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◊	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.F1.
LREF	1290.3000	INC-66
BREF	1290.3000	INC-69
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

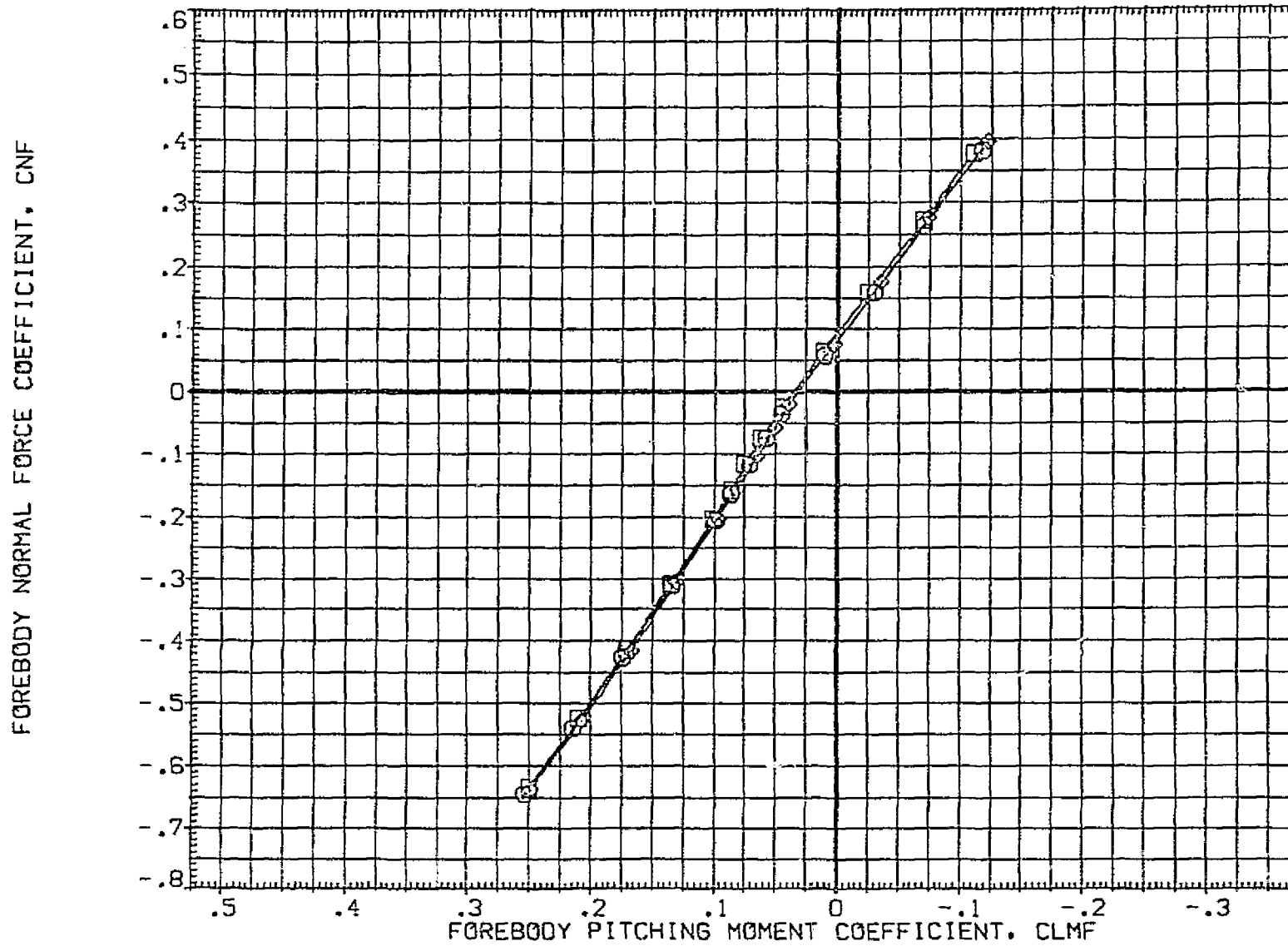


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006)	LP#T 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 -4.000
(3-8003)	LP#T 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(3-8005)	LP#T 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. Y1
ZMRP	400.0000	IN. Z1
SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

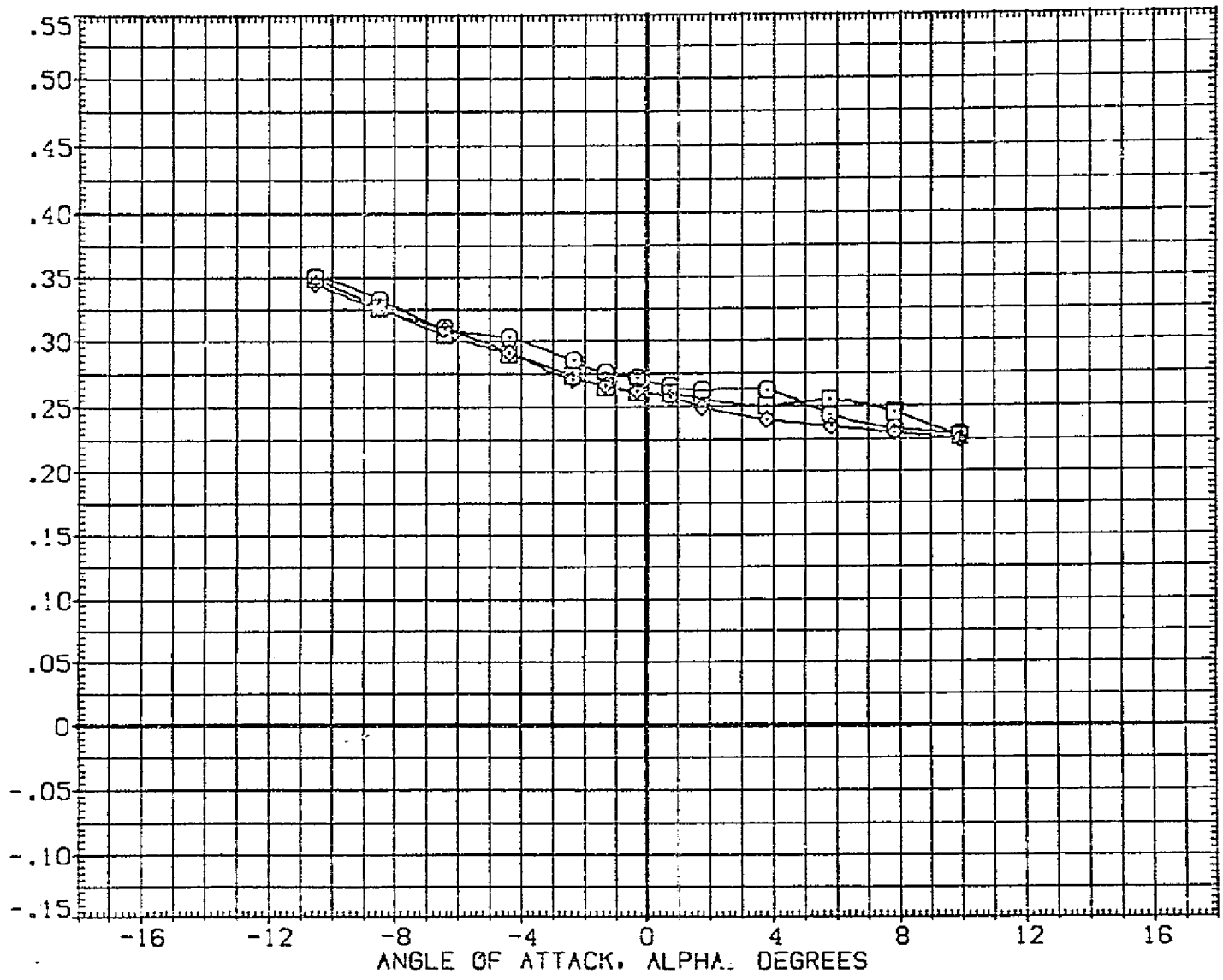


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(3)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◇	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

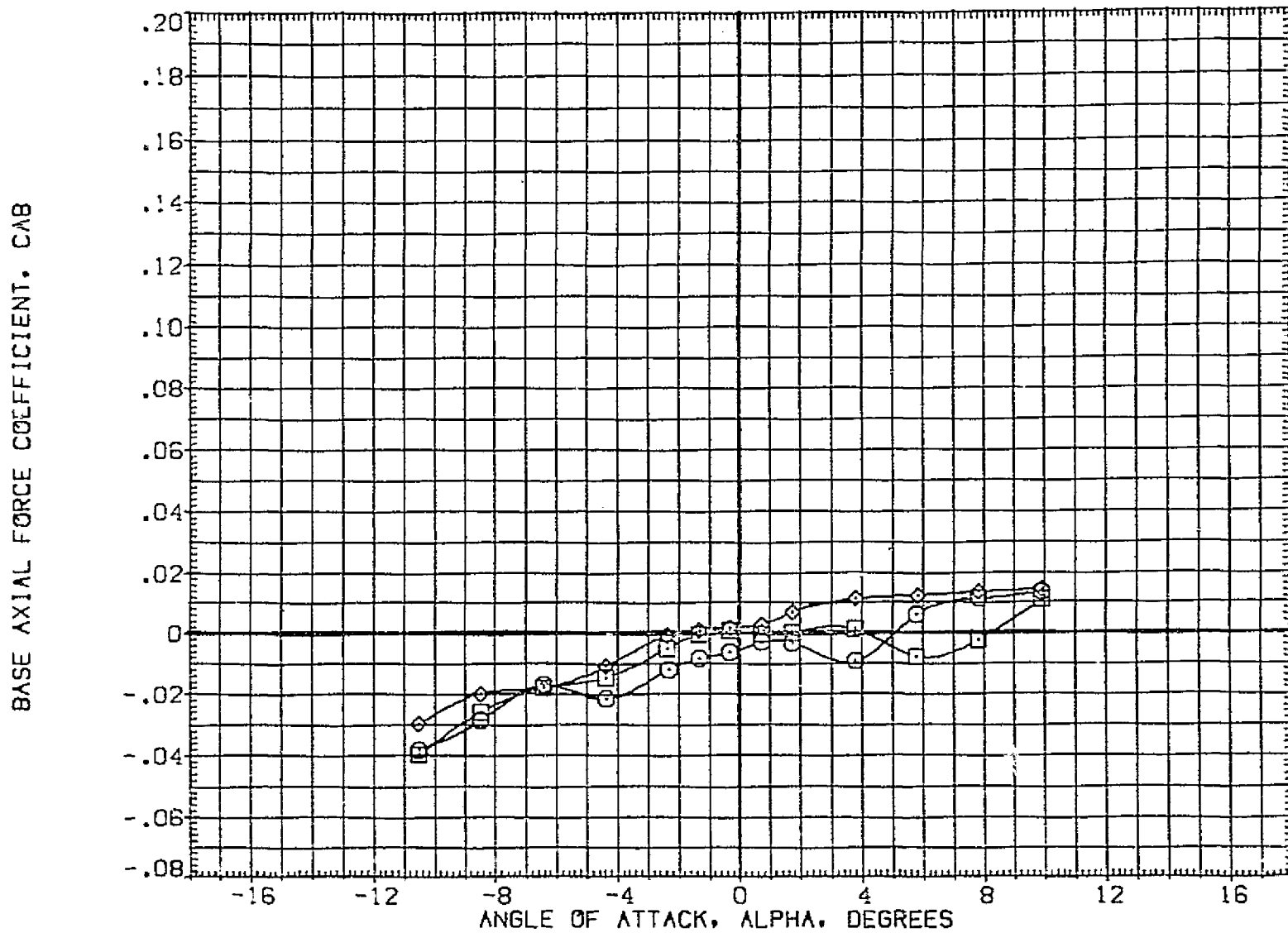


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 -4.000
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-8005) ○	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 4.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

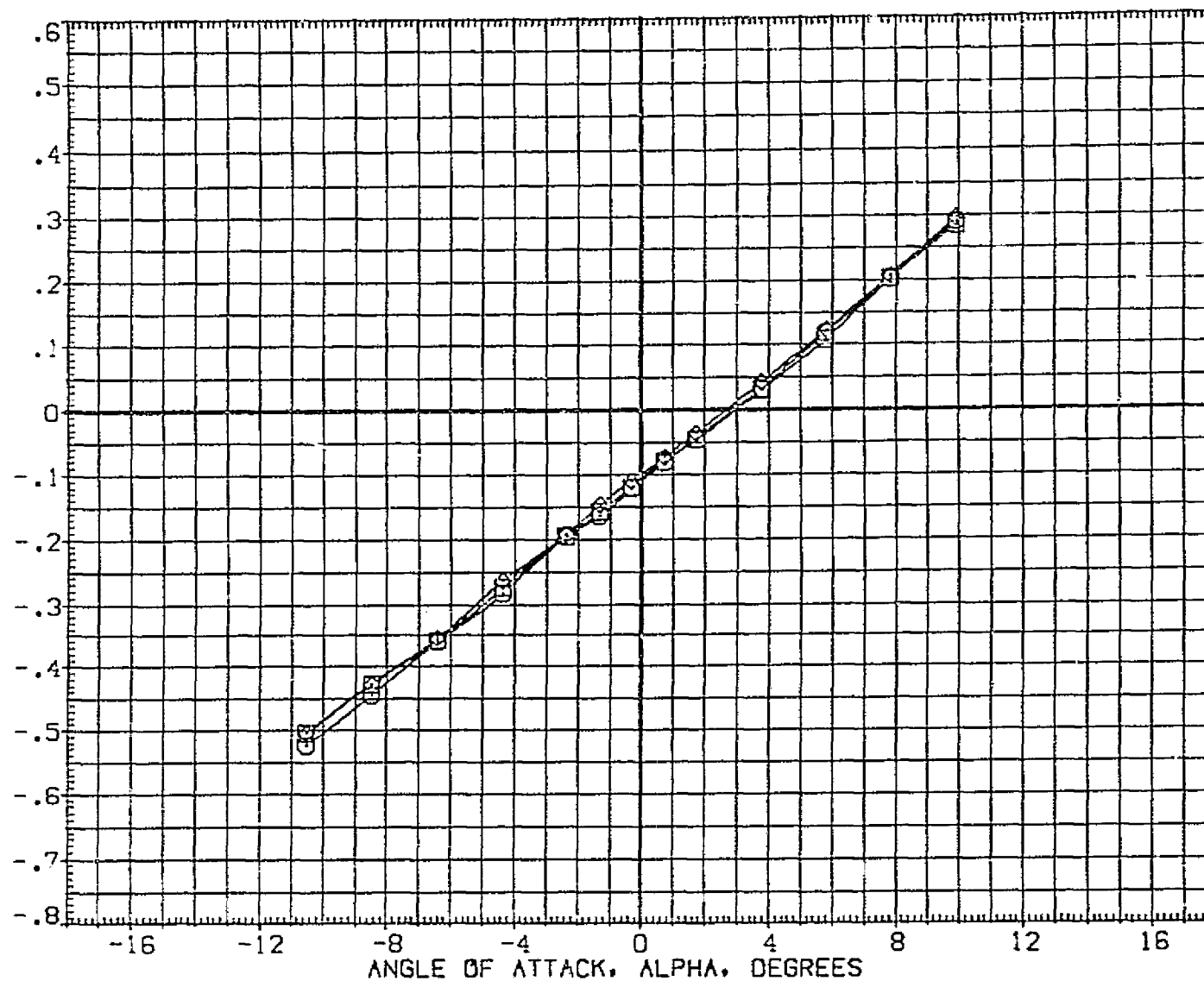


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000
(B-8005)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	:290.3000	INCHES
BREF	:290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

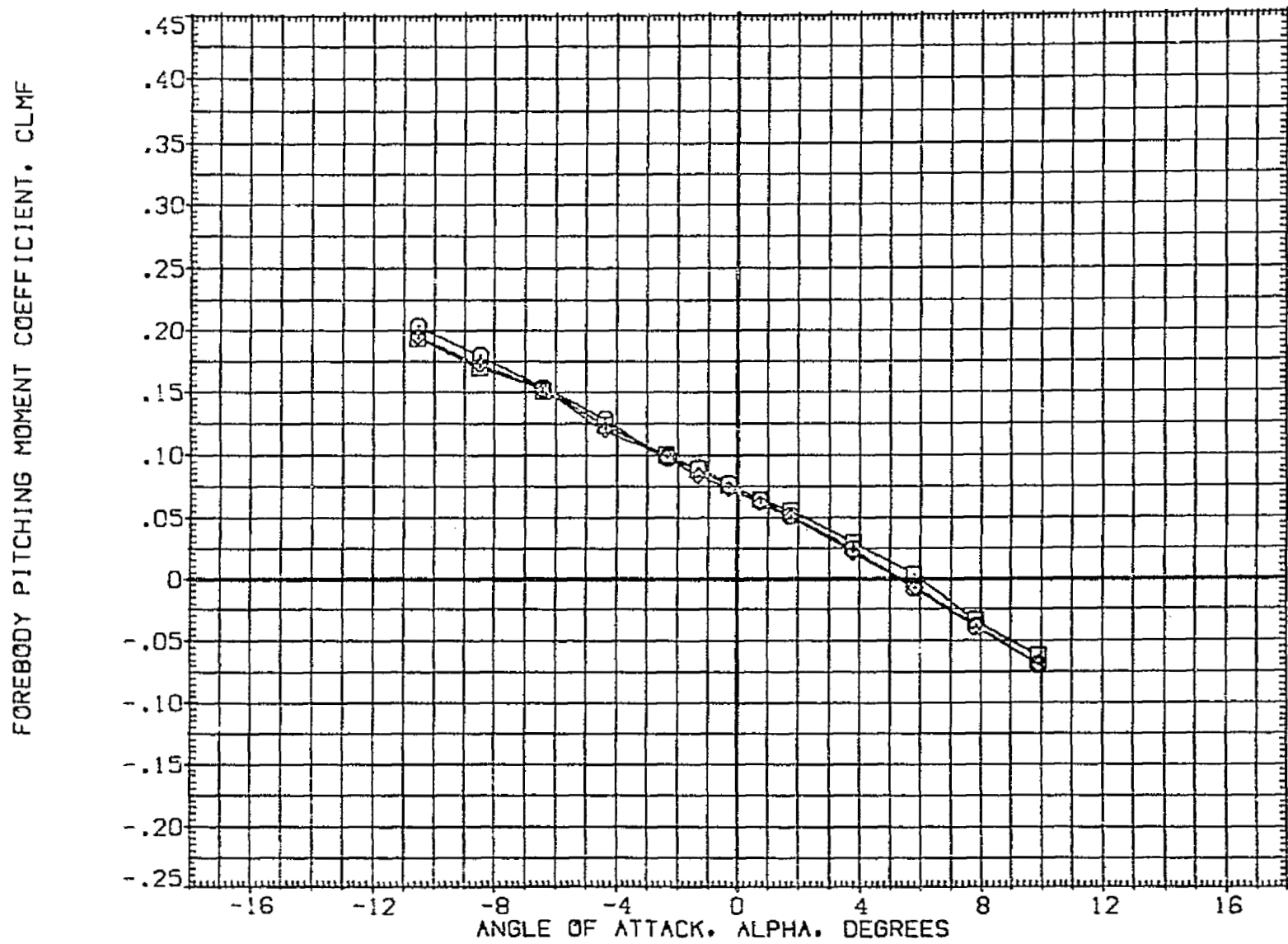


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ⊙	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

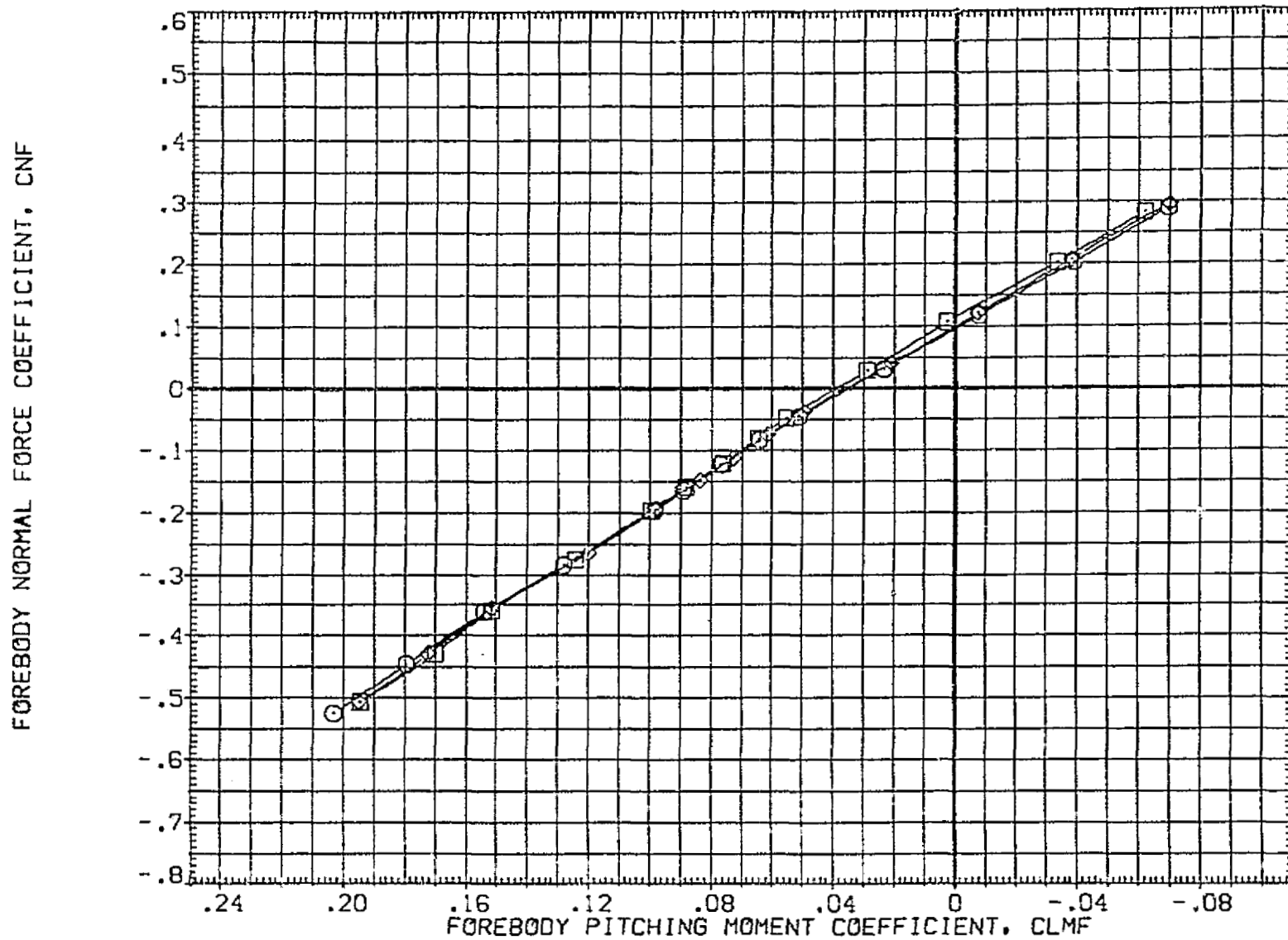


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1089/1119 (A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	LPVT 1089/1119 (A-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ⊗	LPVT 1089/1119 (A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	59. FT.
LREF	1290.3000	26. FT.
BREF	1290.3000	26. FT.
XMRP	976.0000	22. X
YMRP	.0000	0. Y
ZMRP	400.0000	14. Z
SCALE	.0100	

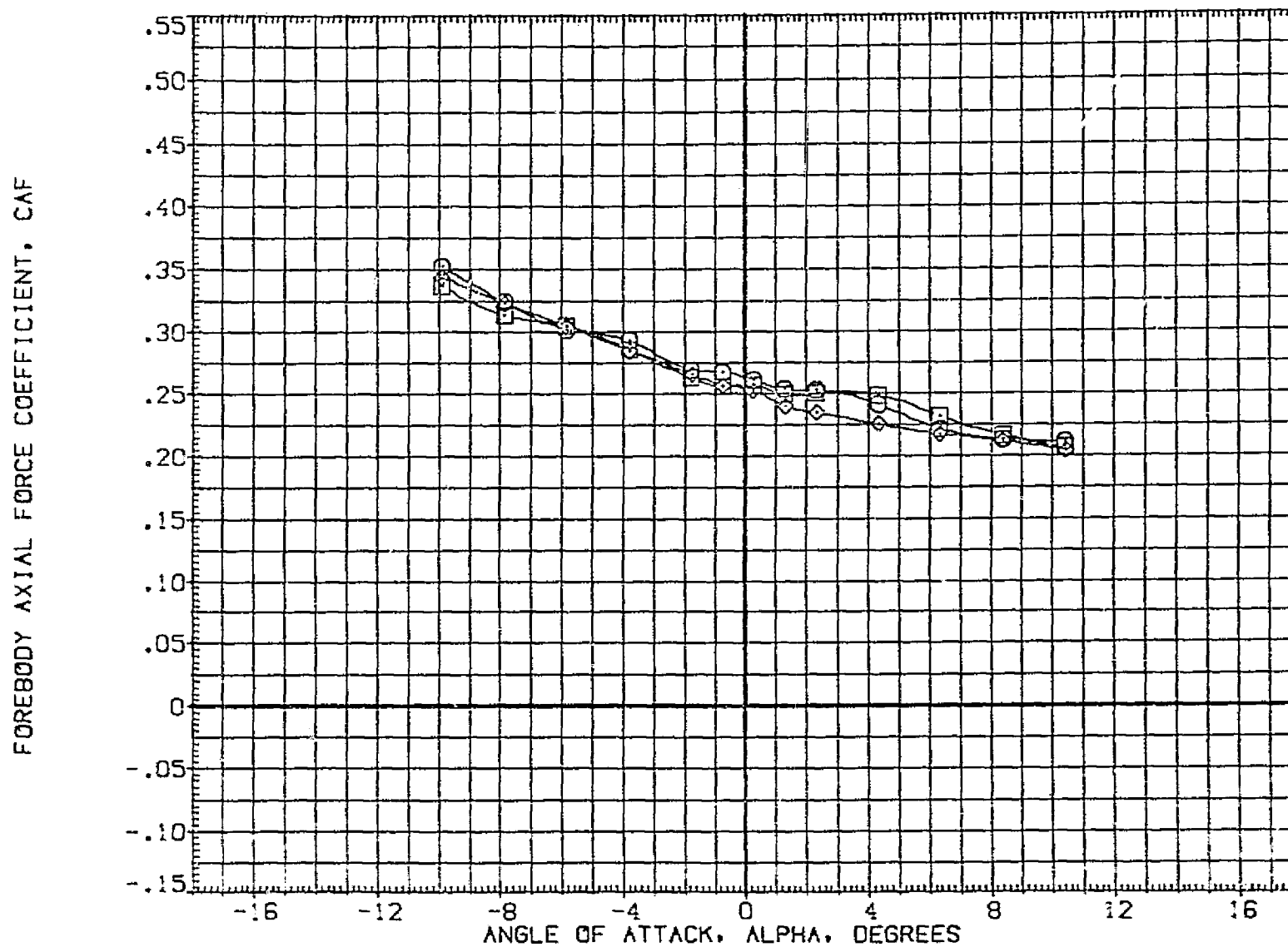


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8006) ○	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000
(9-8009) △	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(9-8005) ◇	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT
LREF	1290.0000	100. FT
BREF	1290.0000	100. FT
XREF	916.0000	17.6 FT
YREF	.0000	0.0 FT
ZREF	400.0000	12.8 FT
SCALE	.0100	

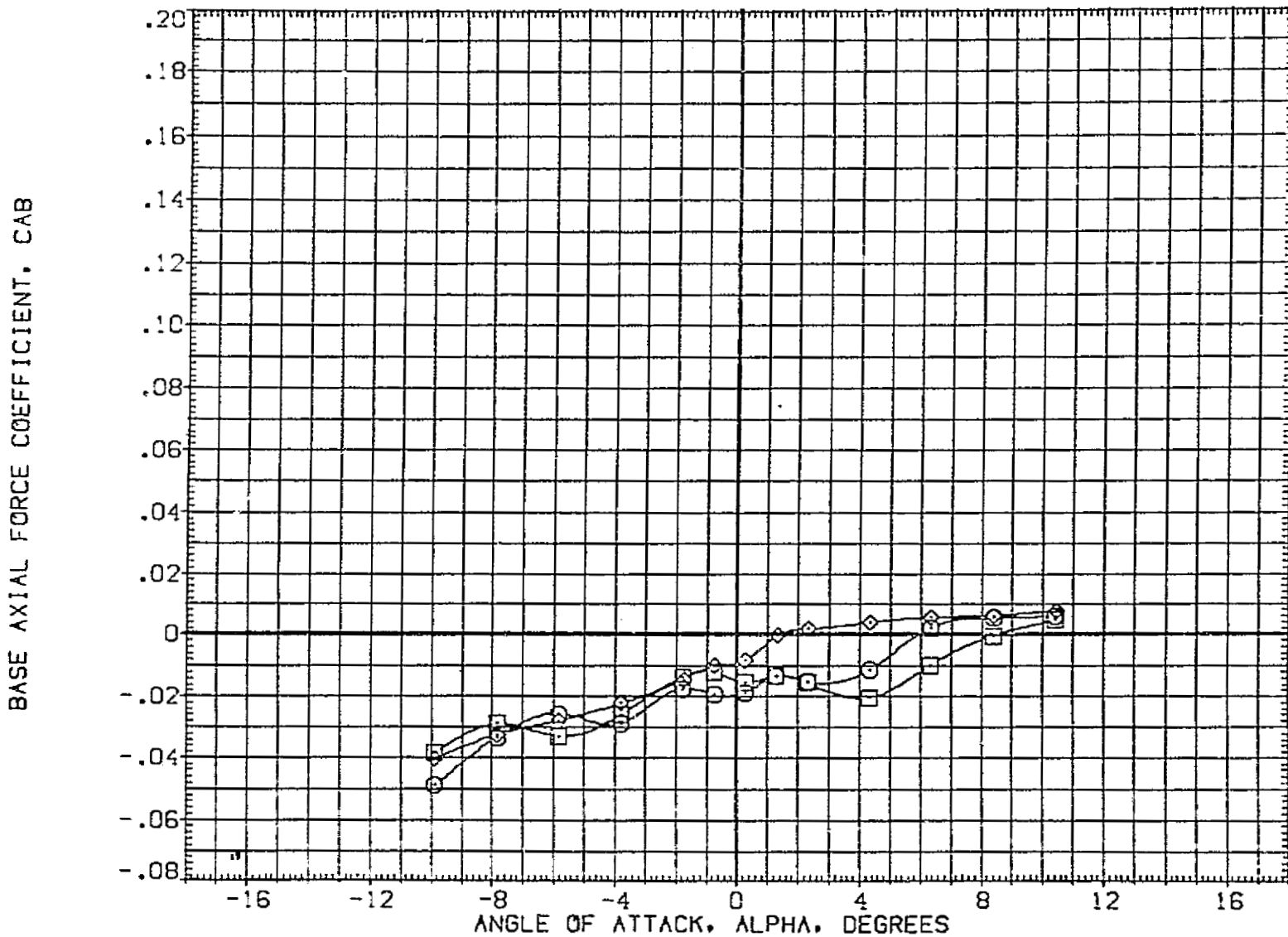


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
 (E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8005)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

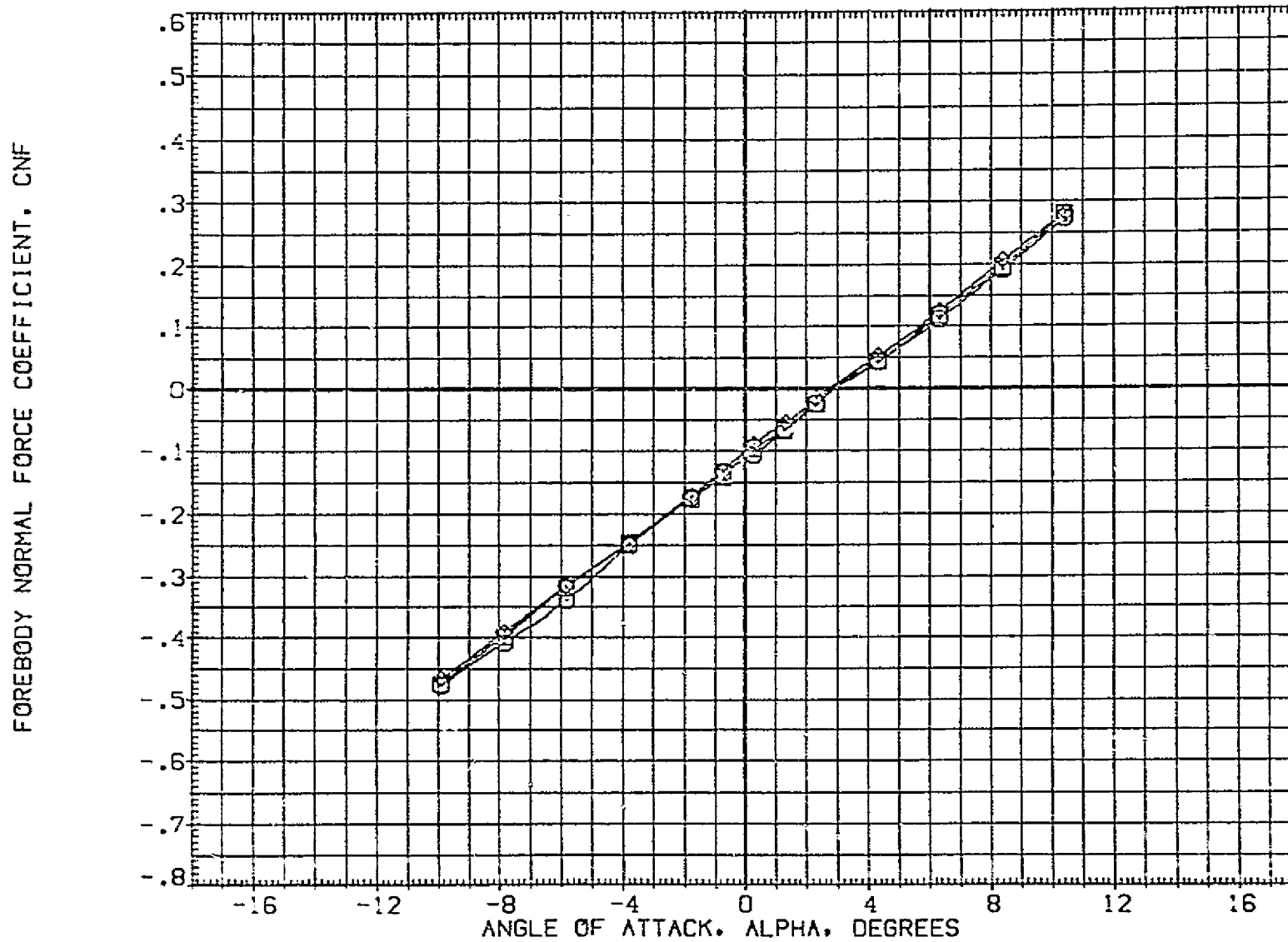


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8006) ○	LPVT 1038/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000
(B-8003) □	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8005) ◇	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	4.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	120.65
BREF	1290.3000	120.65
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

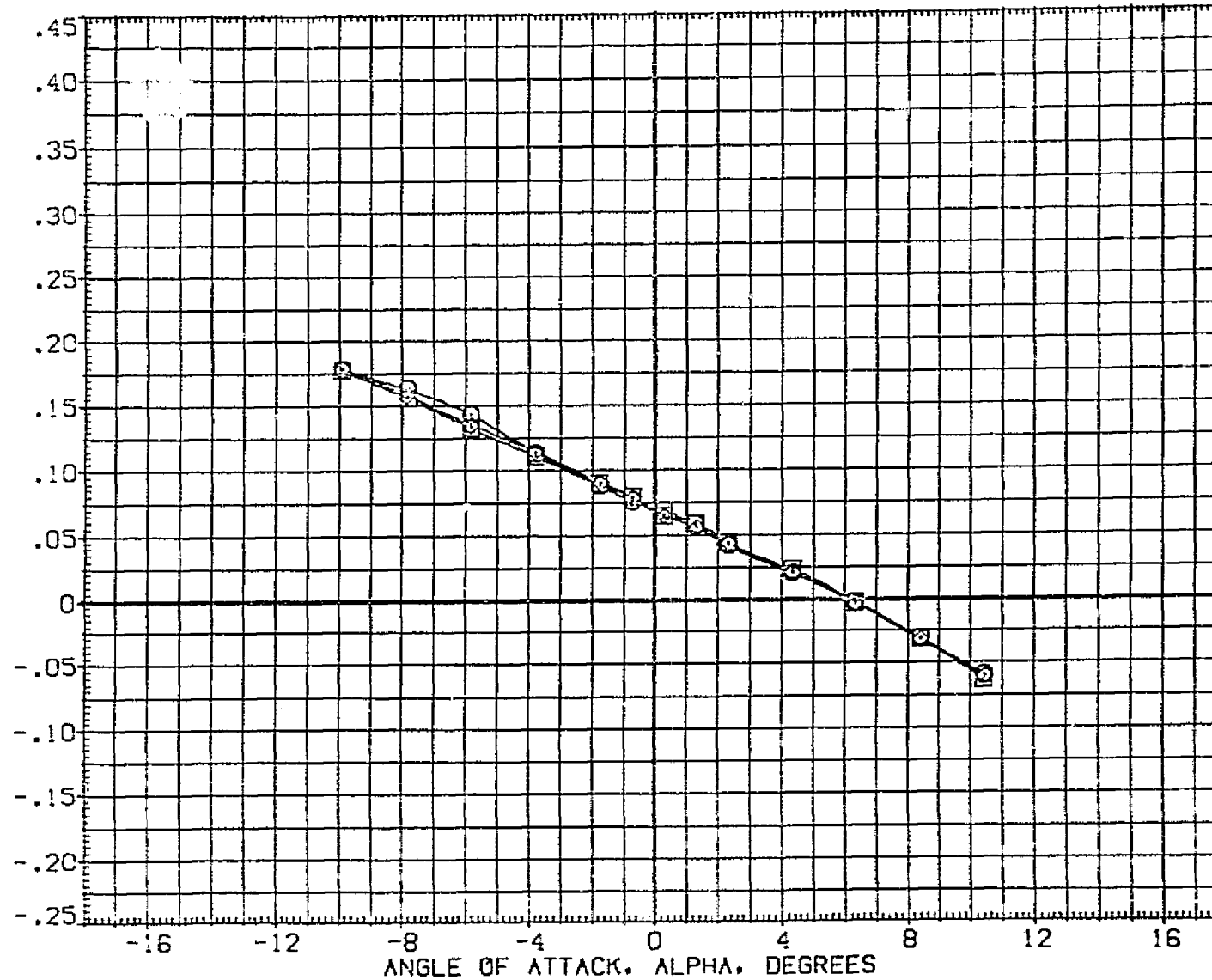


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.
(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8006) ○	LPYT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000	SREF 2690.0000 SQ.FT. LREF 1290.3000 IN. CES
(B-8003) ○	LPYT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	BREF 1290.3000 IN. CES
(B-8005) ○	LPYT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	4.000	XMRP 976.0000 IN. XT YMRP .0000 IN. YT ZMRP 403.0000 IN. ZT SCALE .0100

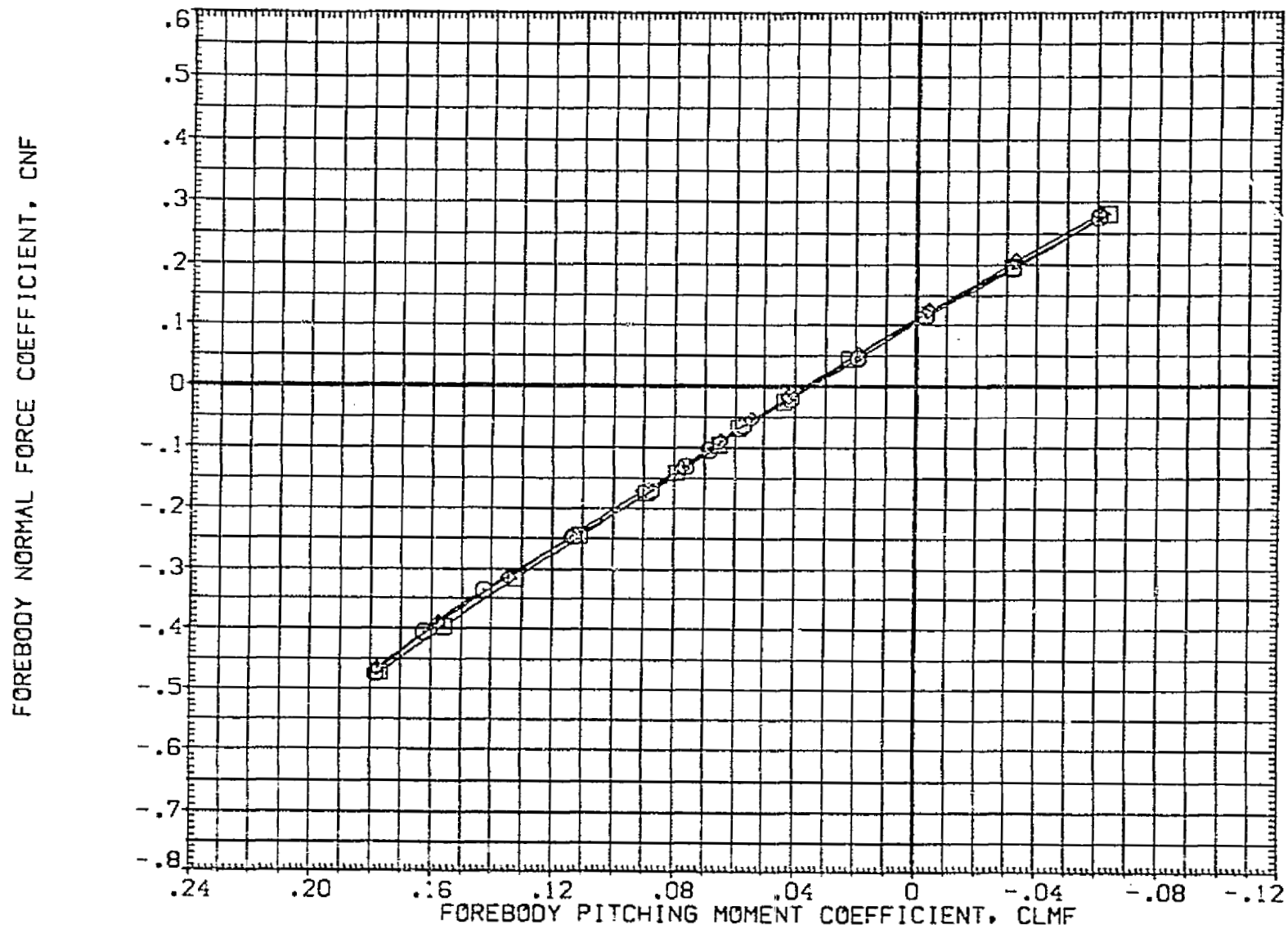


FIGURE 6 EFFECT OF BETA ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-6003)	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(B-6012)	LPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S8 .000
(B-6013)	LPWT 1088/1119 (1A-44) CONFIGURATION	03/T4/S7 .000

REFERENCE INFORMATION		
SRBF	2590.0000	90. FT
BLRBF	1280.0000	45. FT
BRBF	910.0000	30. FT
XZP	970.0000	XT
YZP	0.0000	YT
ZZP	400.0000	ZT
SCALE	.0100	

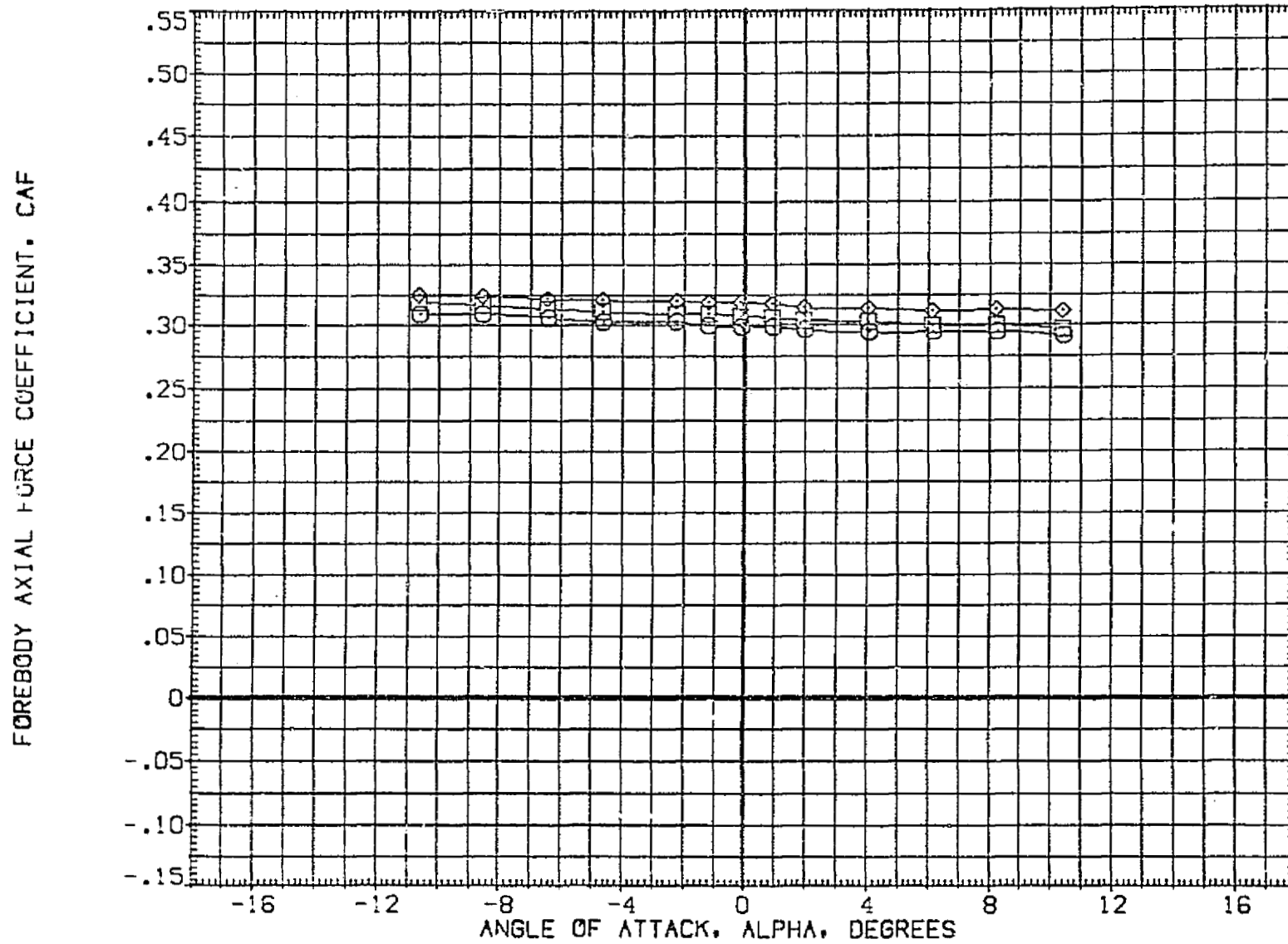


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-8013) ◇	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

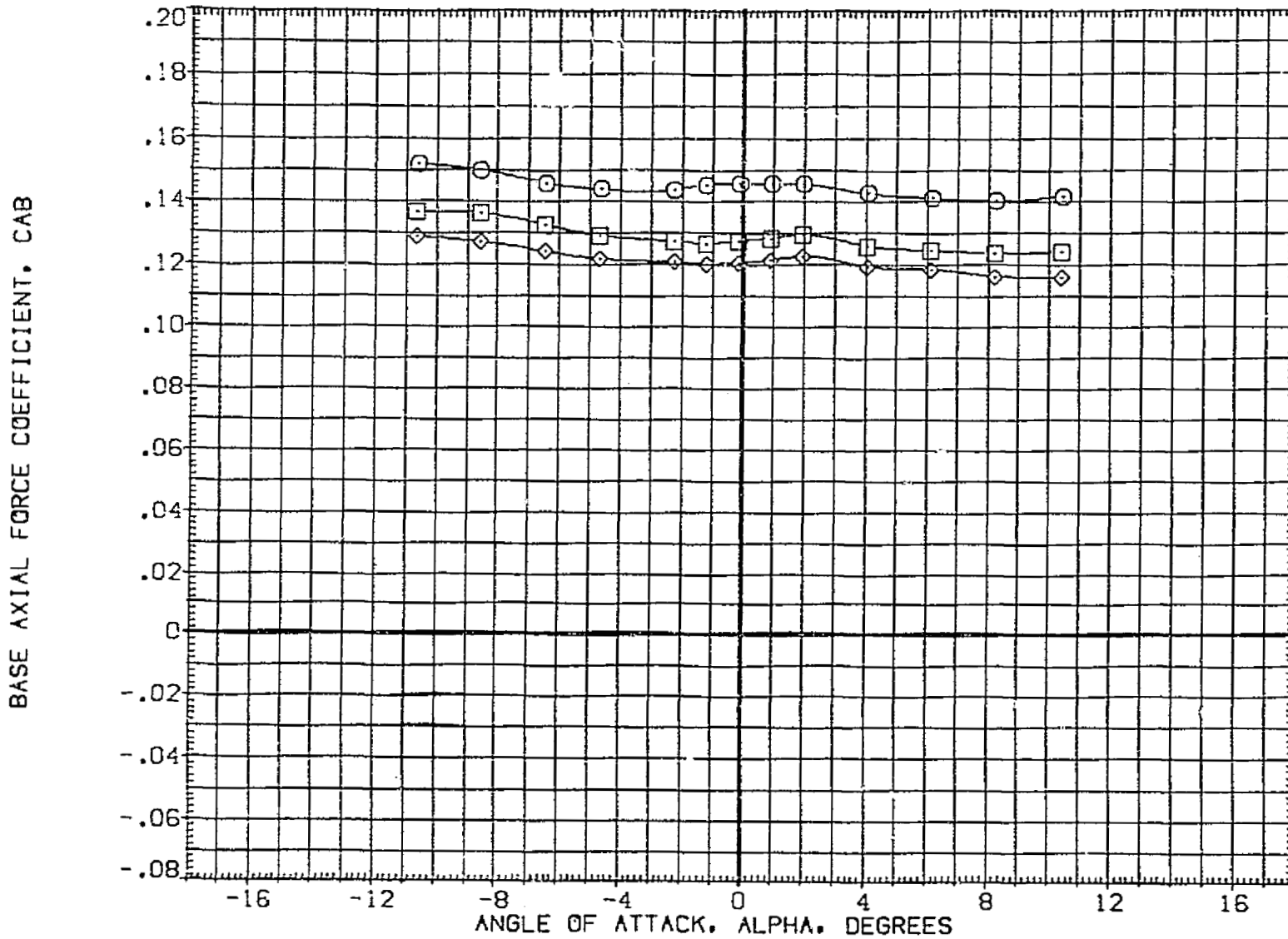


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	CPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	CPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S8	.000
(B-8013)	CPVT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	89. FT
LREF	1290.3000	44.5 FT
BREF	1290.3000	44.5 FT
XMRP	976.0000	31.1 FT
YMRP	.0000	0.0 FT
ZMRP	400.0000	131.2 FT
SCALE	.0100	

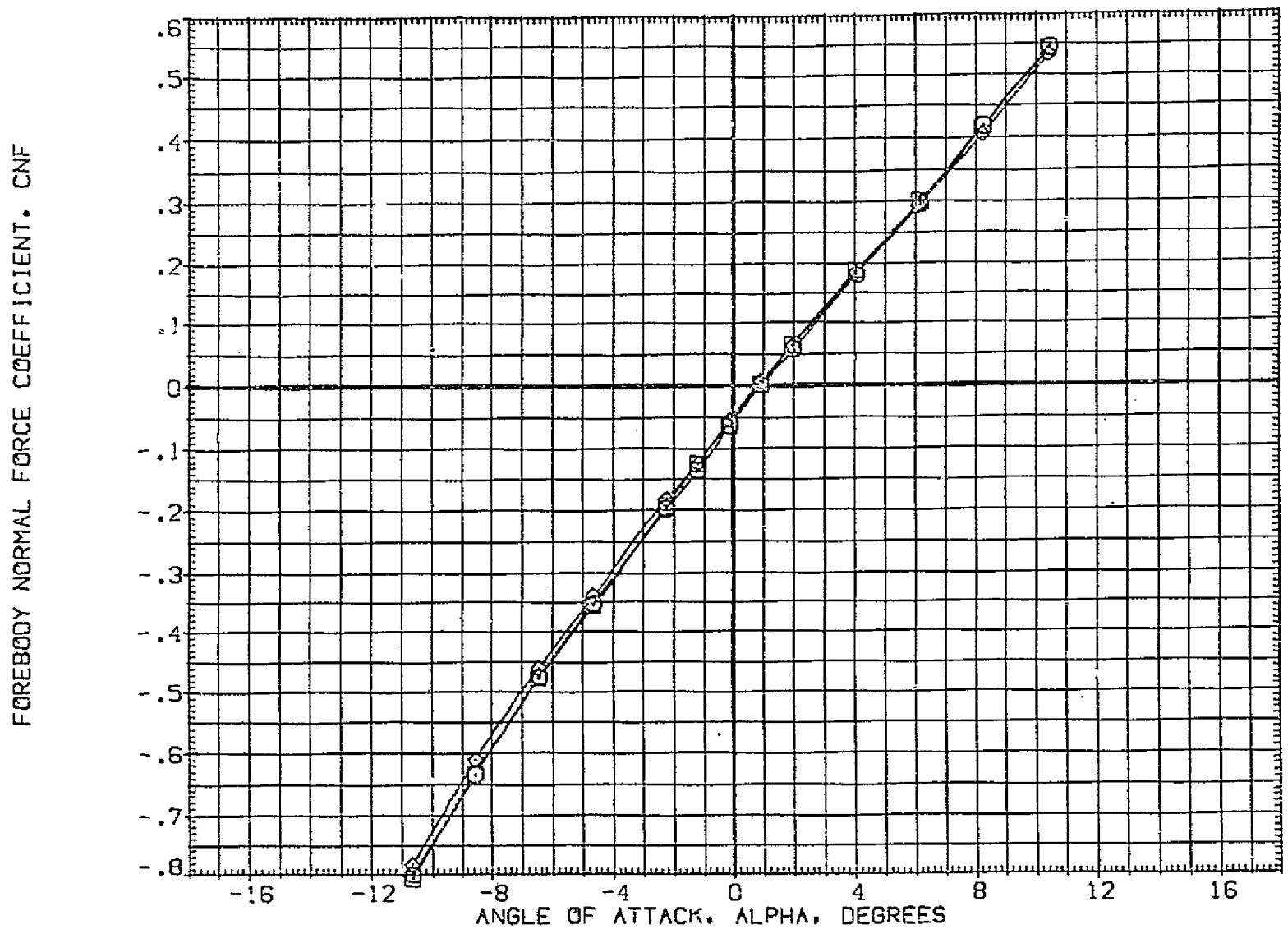


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

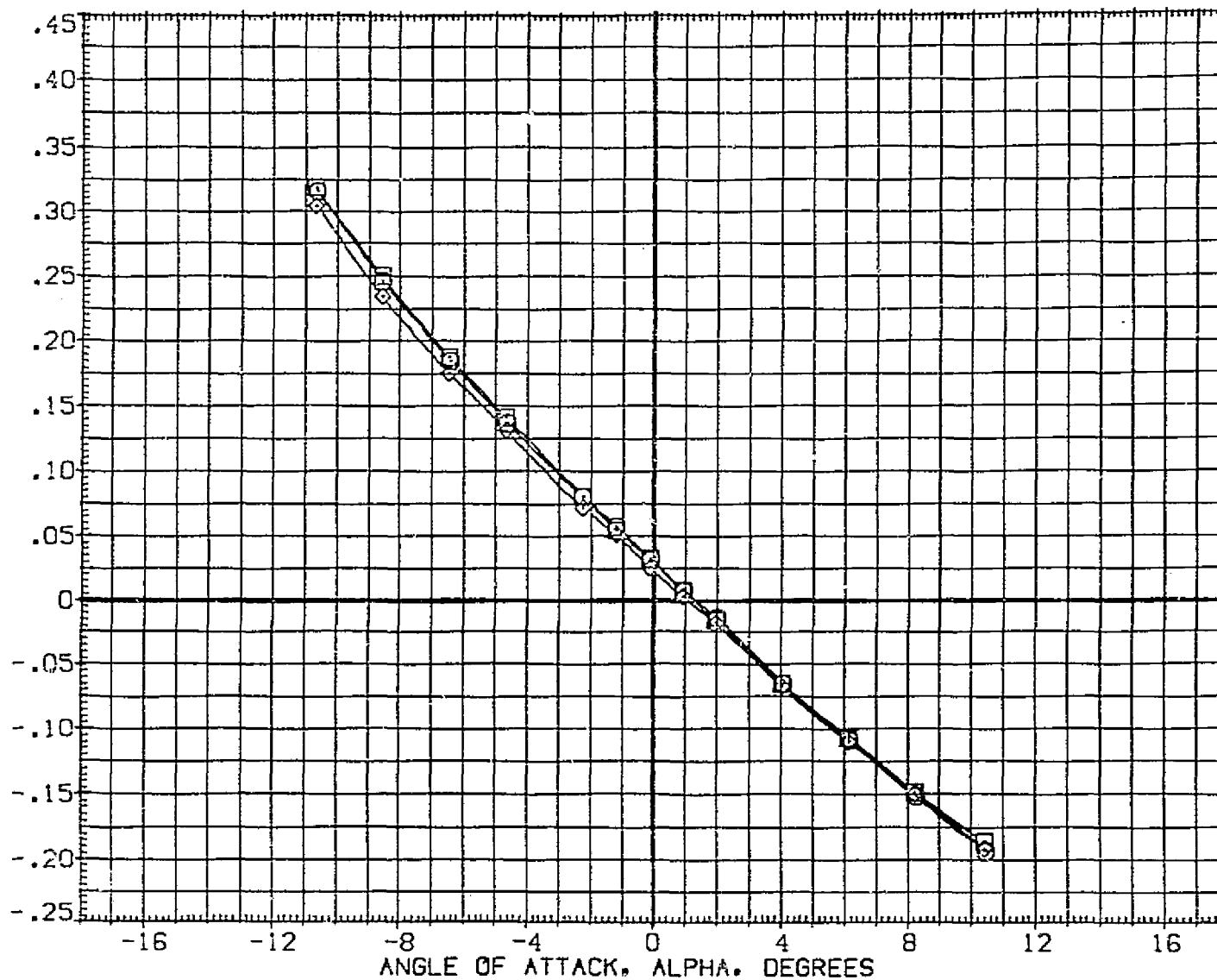


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	SREF 2690.0000 SQ. FT.
(B-8012)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000	LREF 1290.3000 INCHES
(B-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000	BREF 1290.3000 INCHES
			XMRP 976.0000 IN. XT
			YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

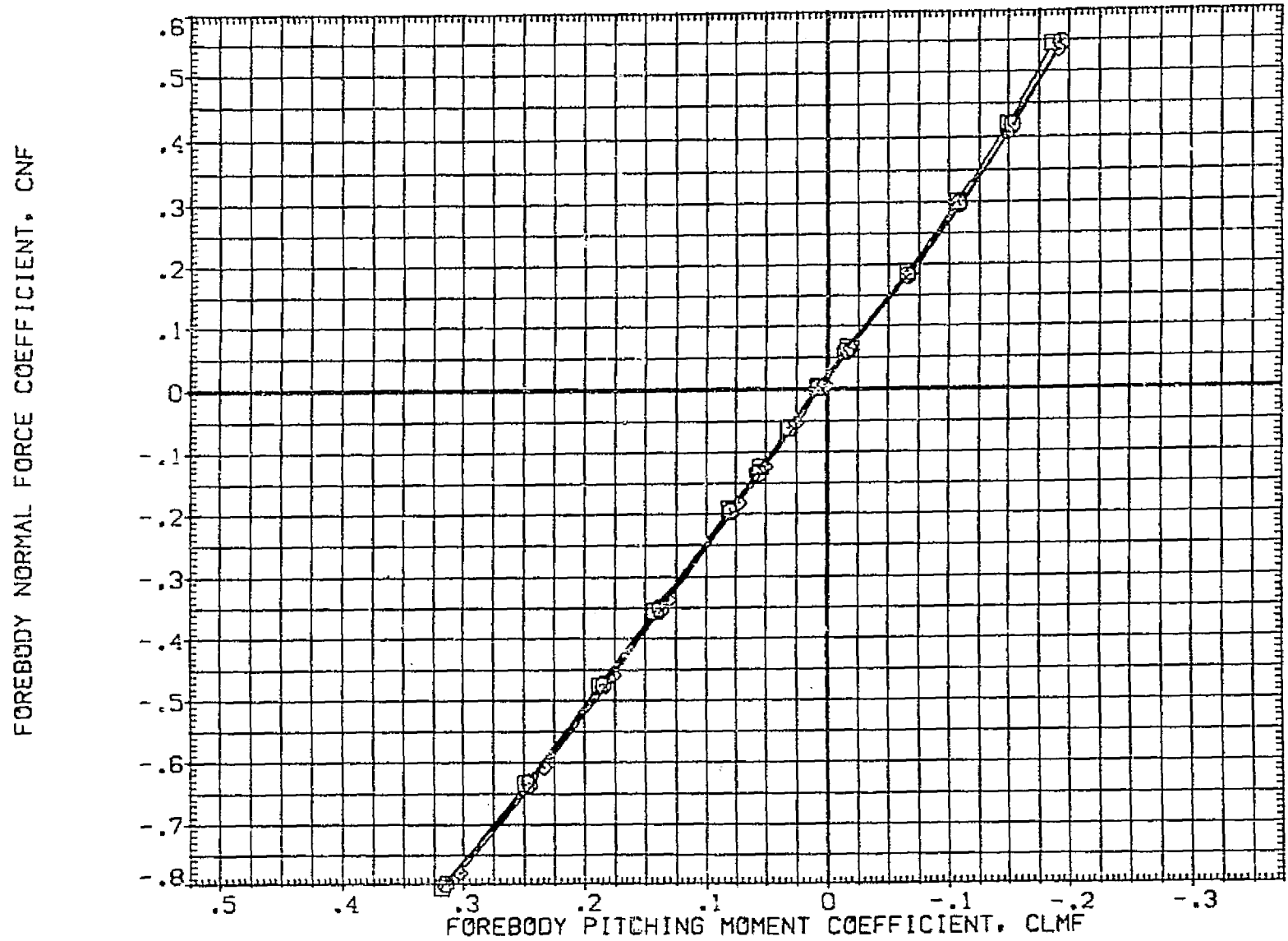


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(P-8003)	OPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	SREF	2690.0000 SQ.FT.
(P-8012)	OPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000	LREF	1290.3000 INCHES
(P-8013)	OPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000	BREF	1290.3000 INCHES
			XMRP	976.0000 IN. XT
			YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

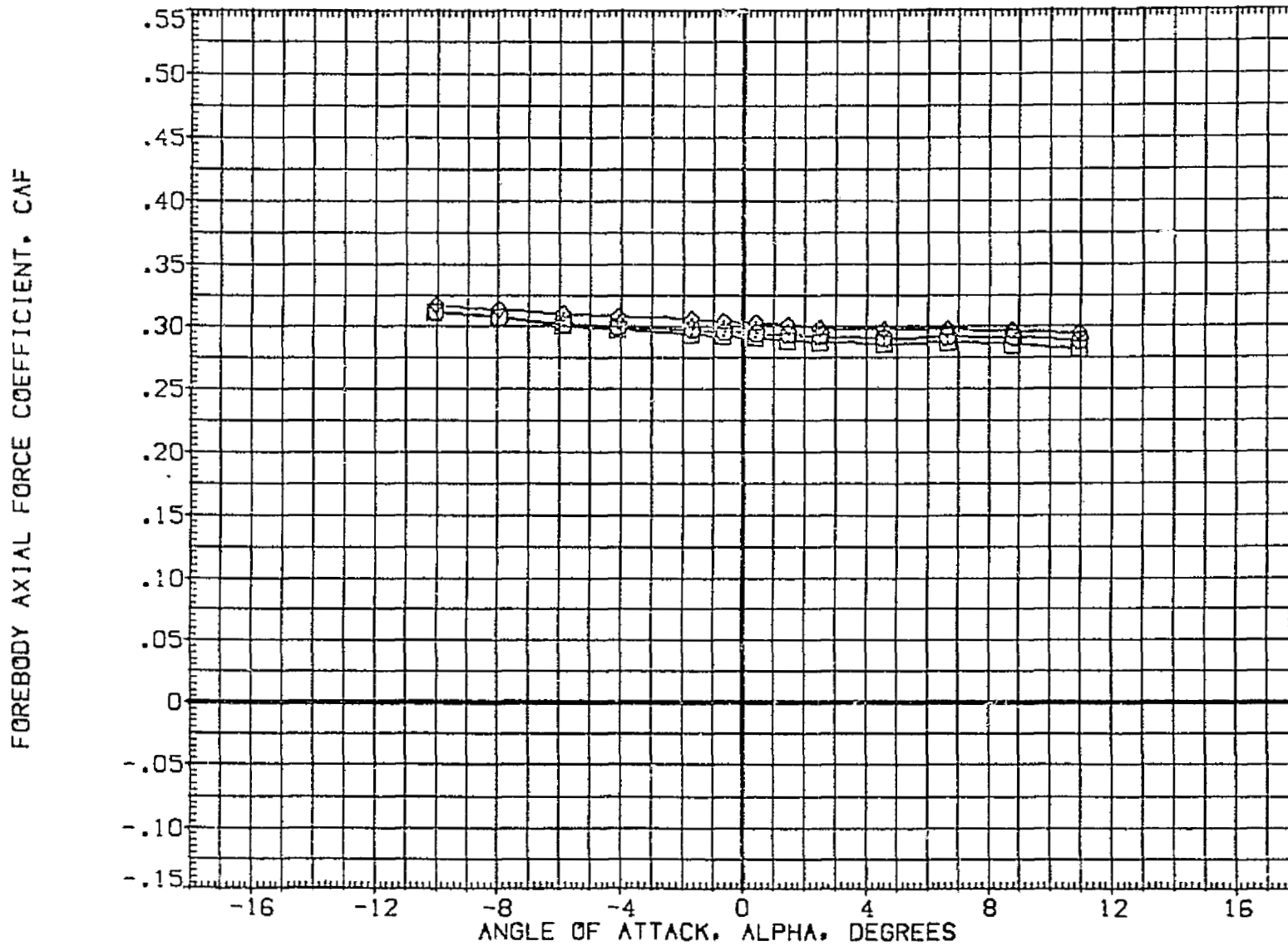


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-80:9)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-80:12)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-80:13)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.0000	IN.
BREF	1290.0000	IN.
XMRP	978.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

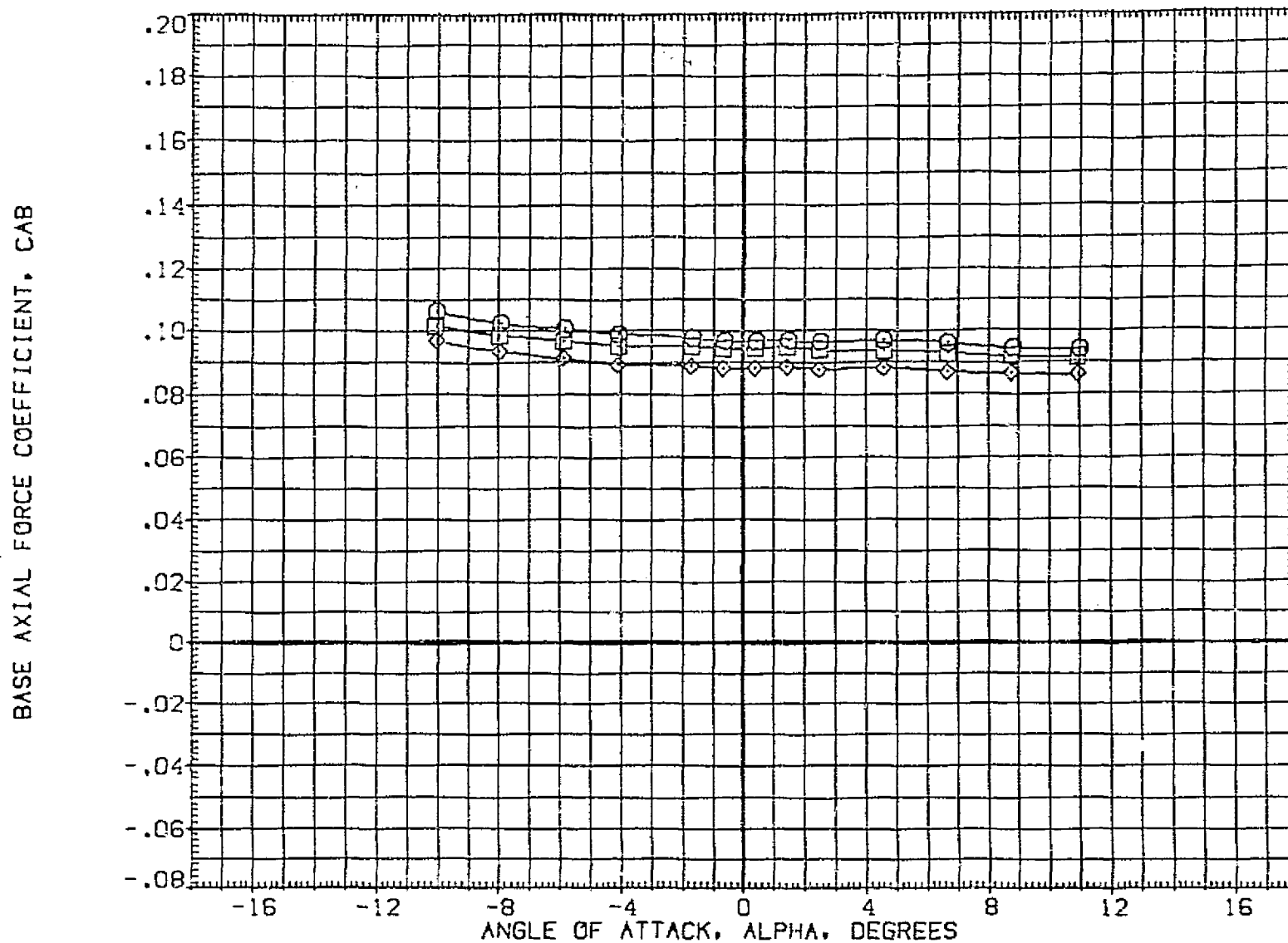


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	UPVT 1088/1119 [A-44] CONFIGURATION 02/T4/S7	.000
(B-8012) ○	UPVT 1088/1119 [A-44] CONFIGURATION 02/T4/S8	.000
(B-8013) ○	UPVT 1088/1119 [A-44] CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INC. ES
BREF	1290.3000	INC. ES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

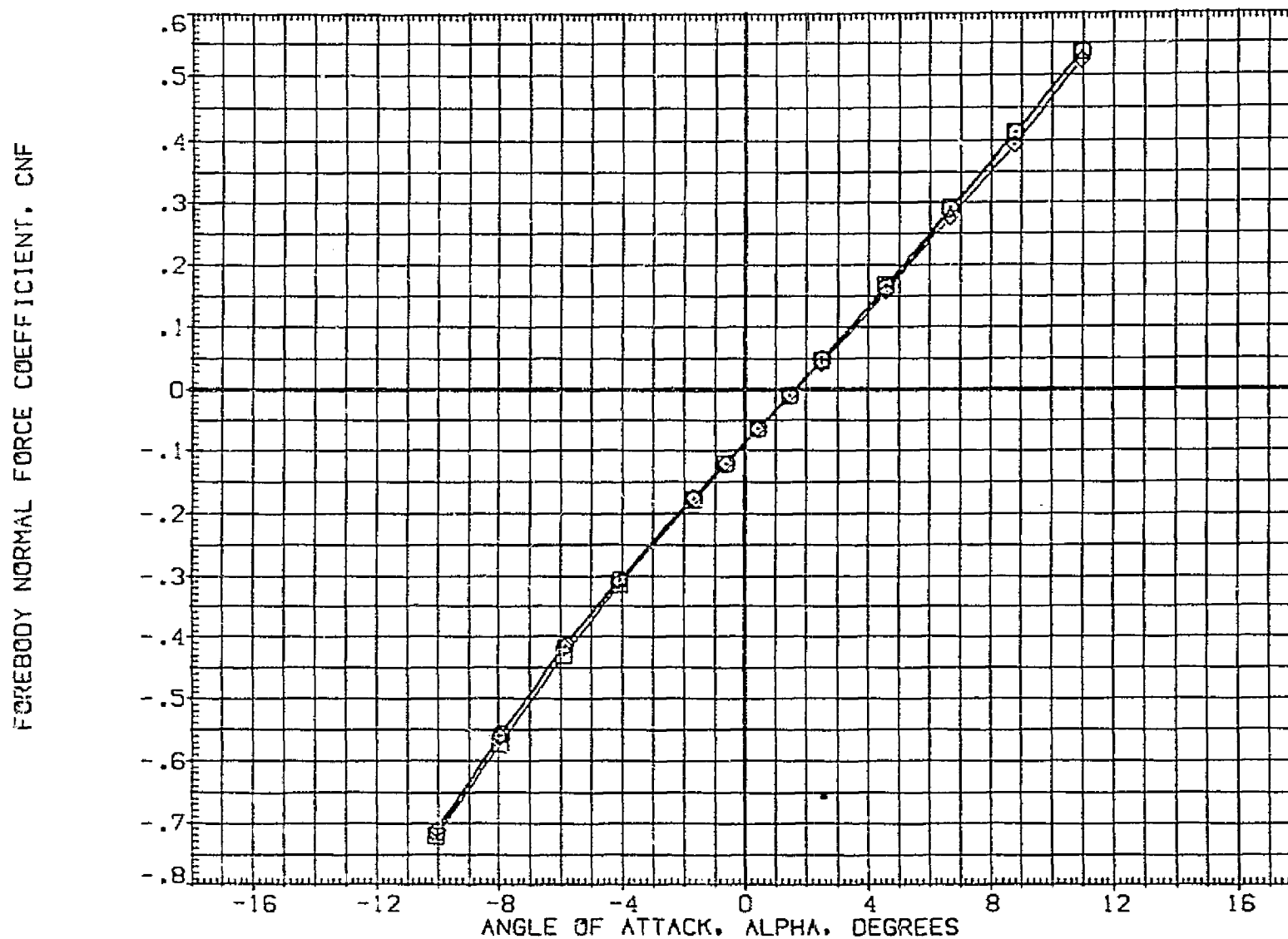


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-8013) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

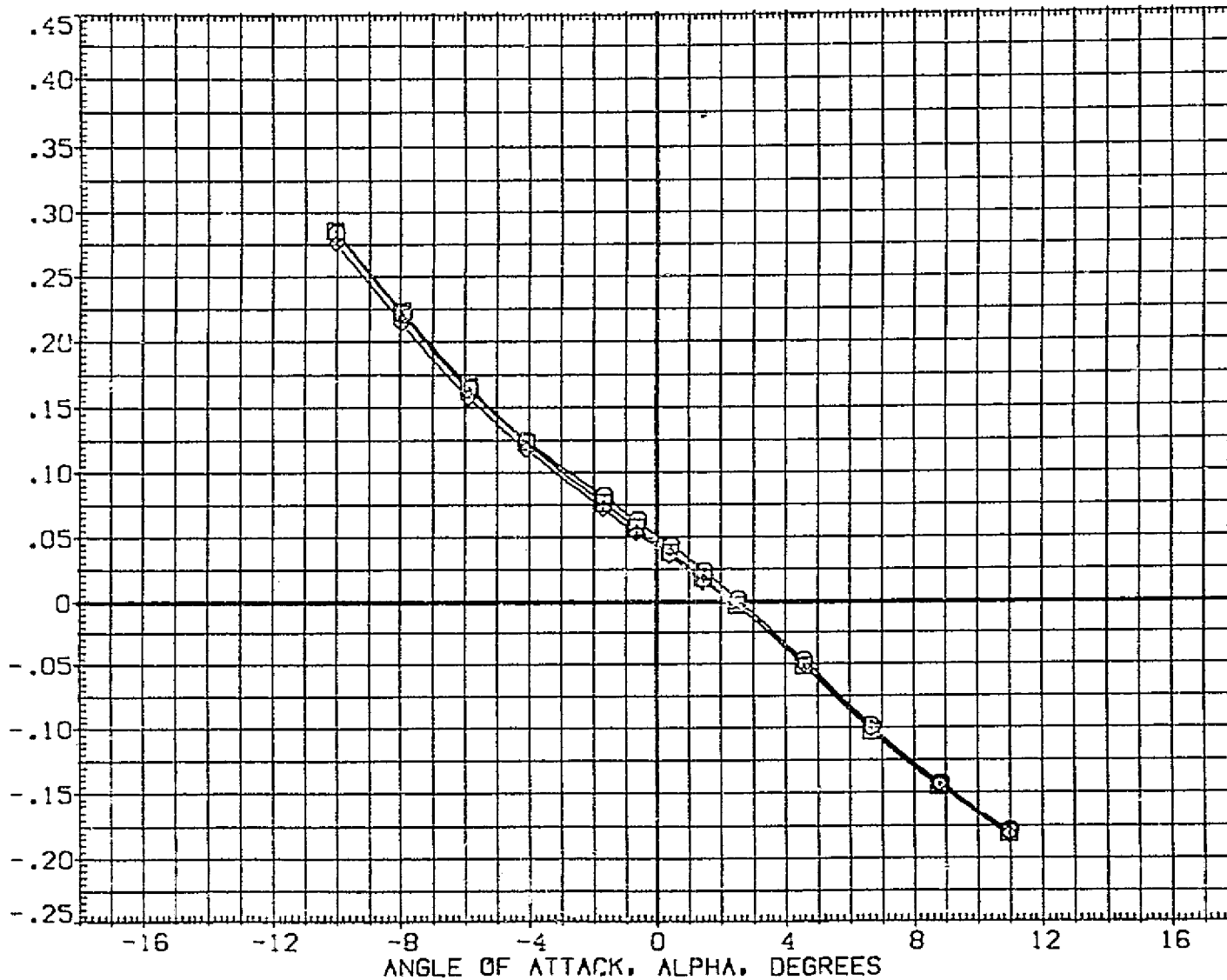


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003)	□ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	.000
(9-8012)	□ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/58	.000
(9-8013)	◇ UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/57	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	576.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

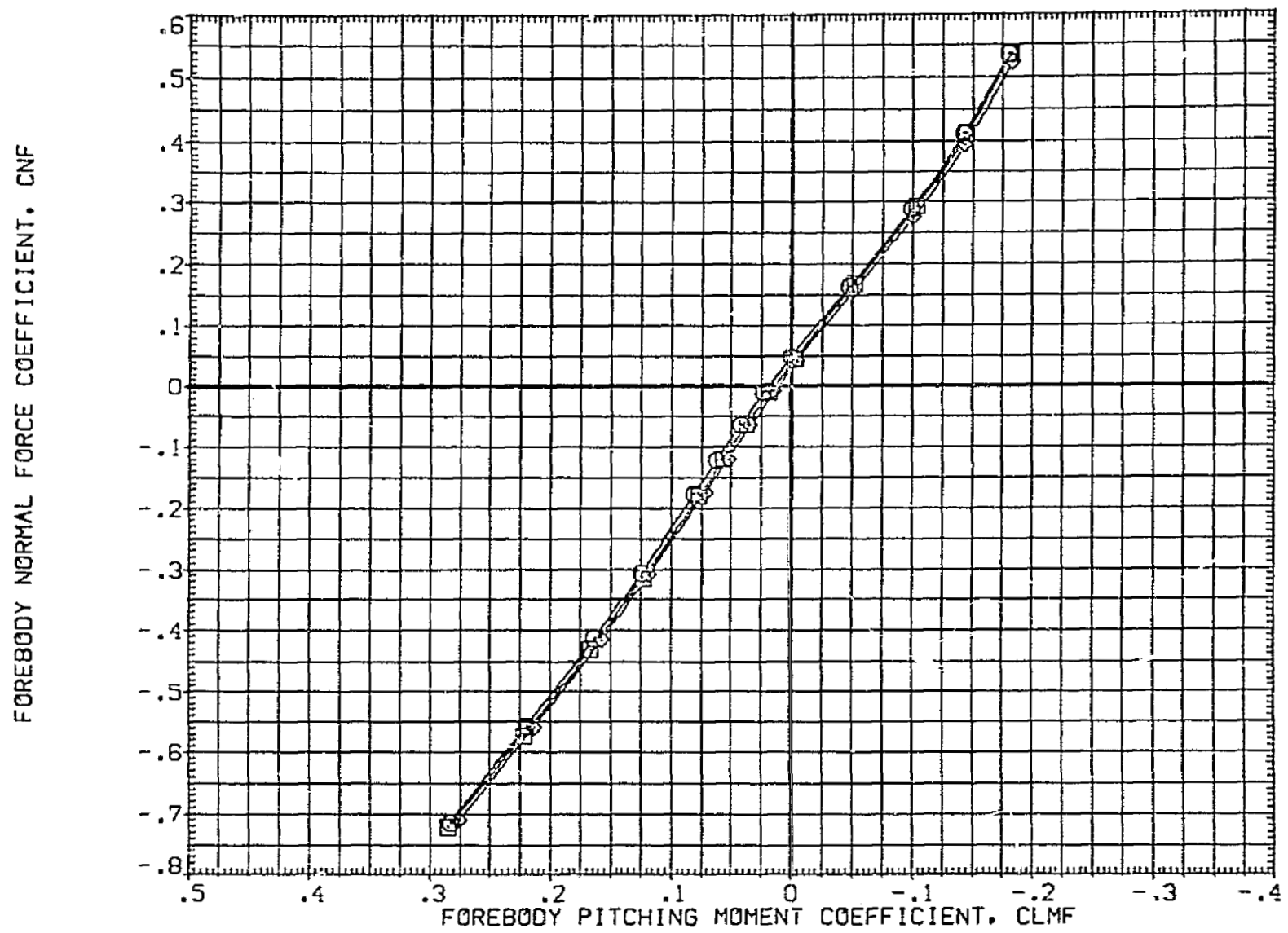


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(8-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012) ○	DATA NOT AVAILABLE	.000
(9-8013) ◇	UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SG.F1.
LREF	1290.3000	INC.H.S
BREF	1290.3000	INC.H.S
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

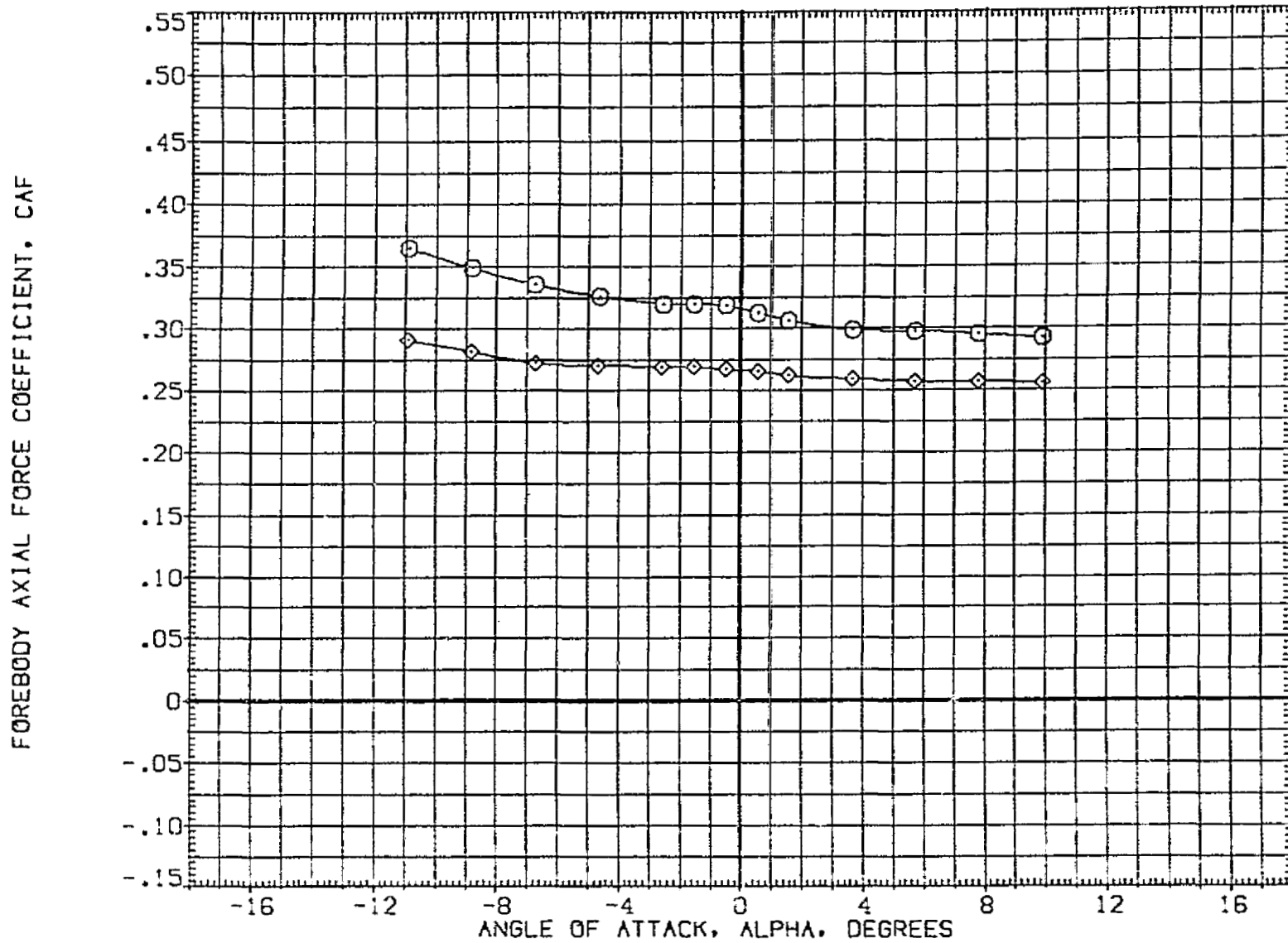


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013)	LPVT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

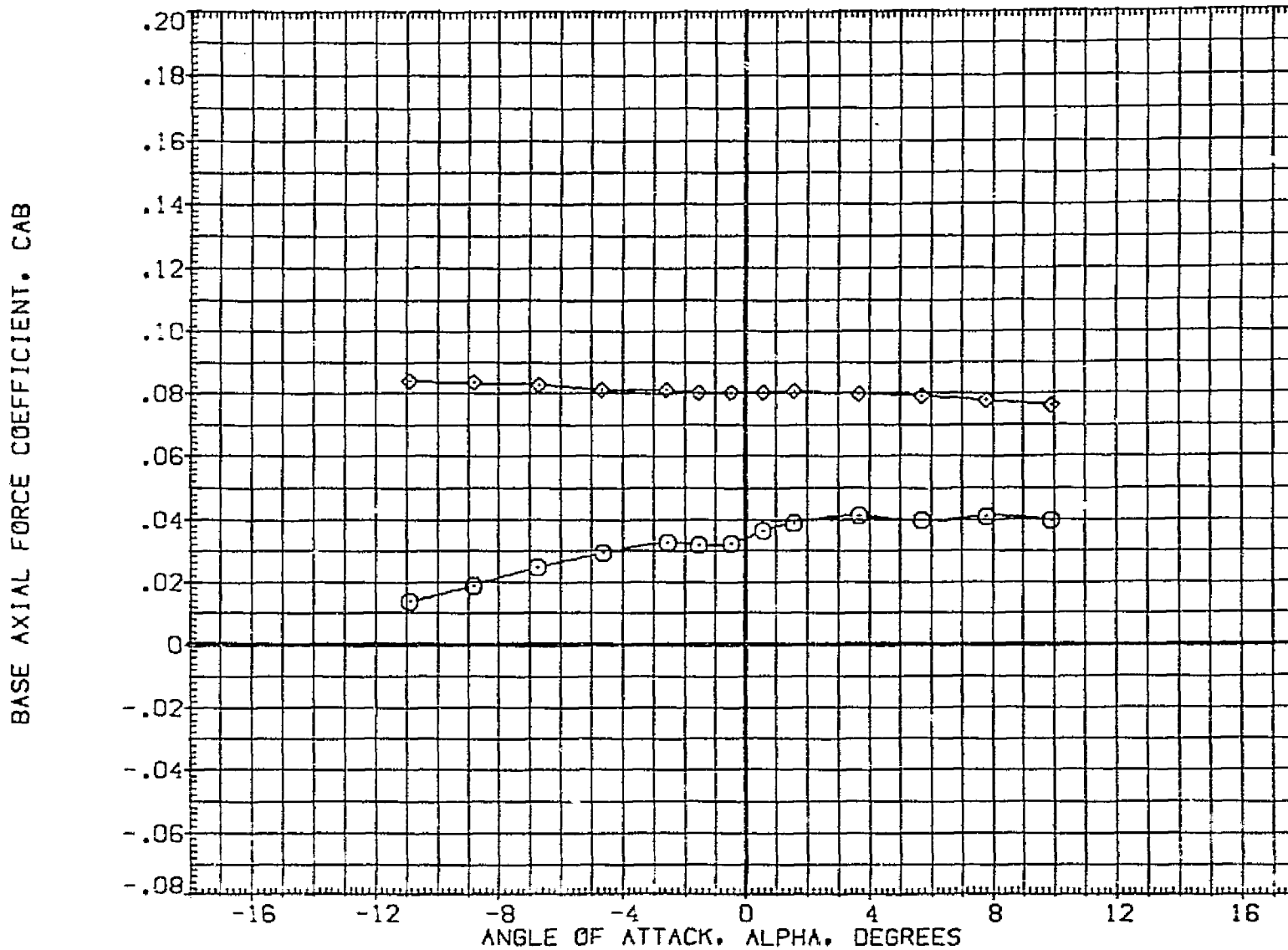


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) □	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013) ⊗	UPVT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

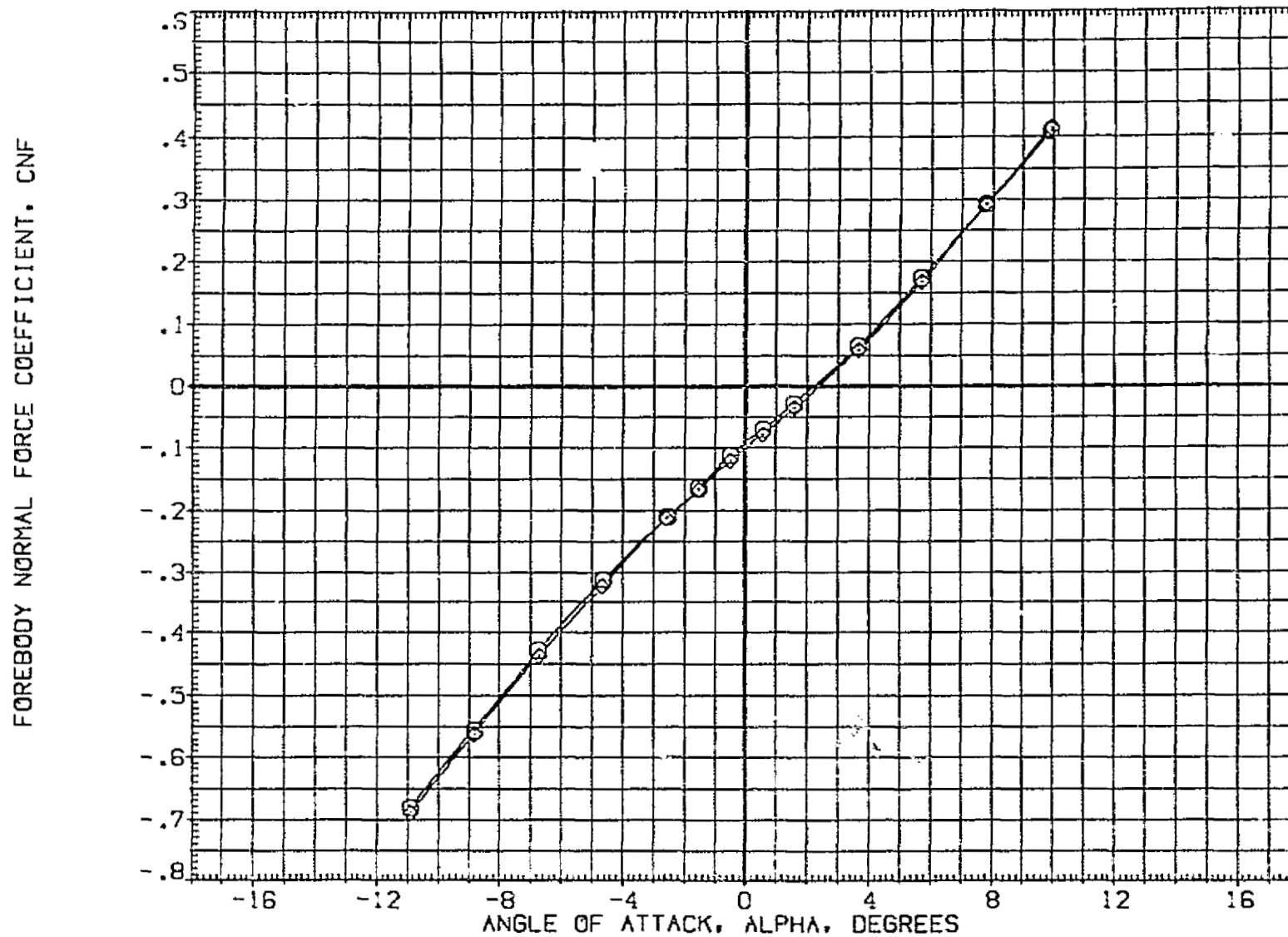


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013)	UPVT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

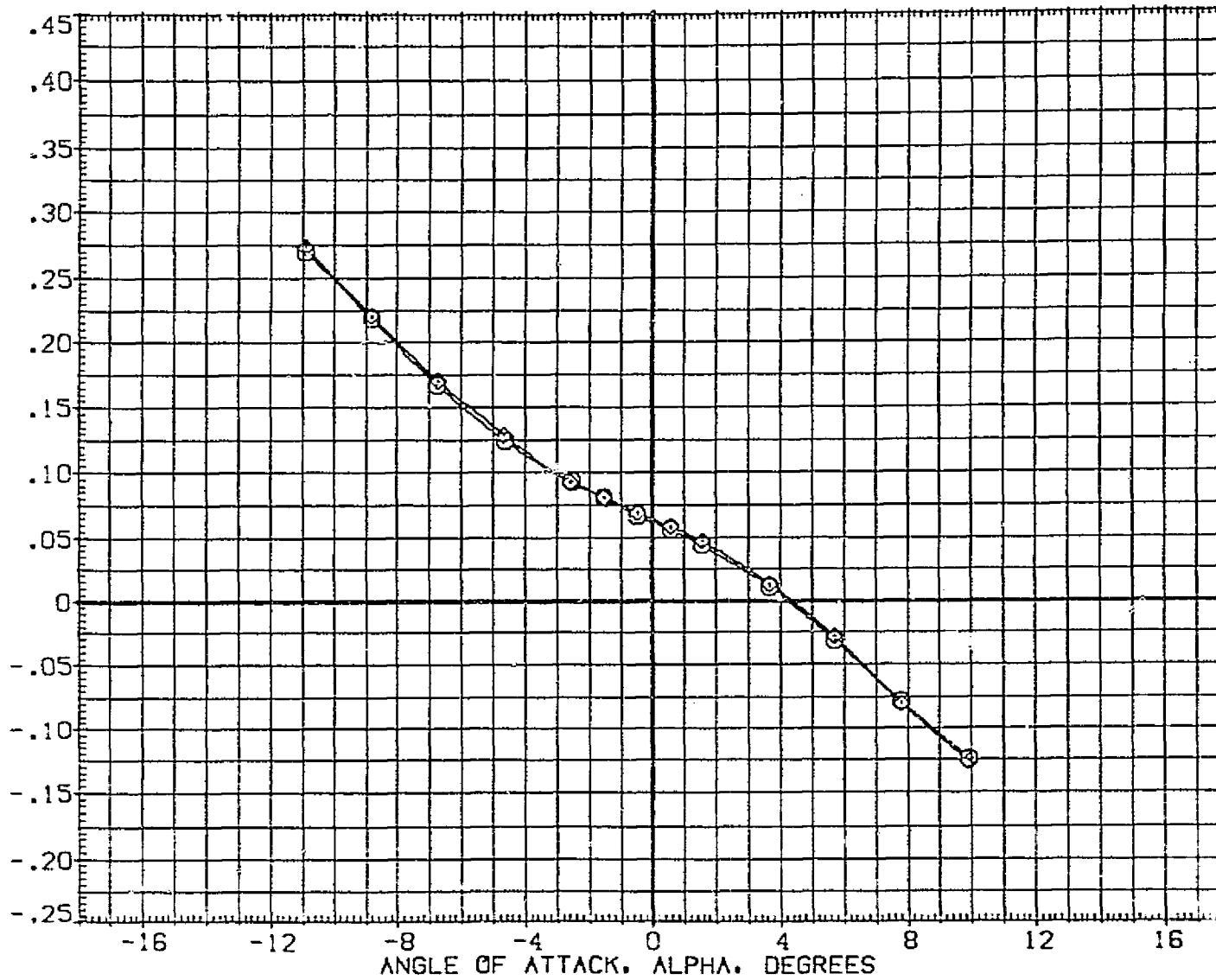


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013)	LPWT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2680.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

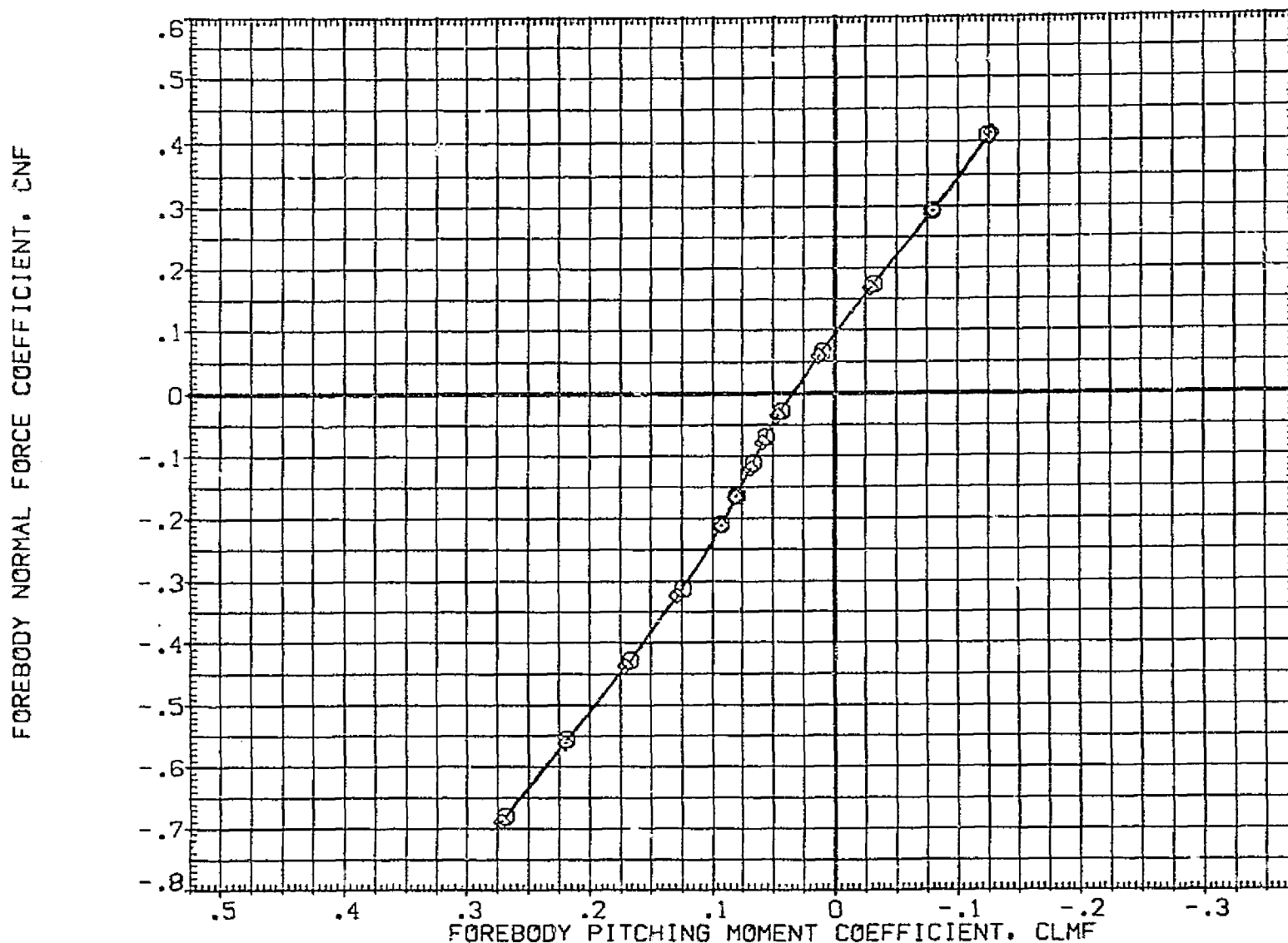


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.
 (C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-80:3)	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(B-80:2)	DATA NOT AVAILABLE	.000
(B-80:3)	UPVT 1088/1119 (1A-44) CONFIGURATION	03/T4/S7
		.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

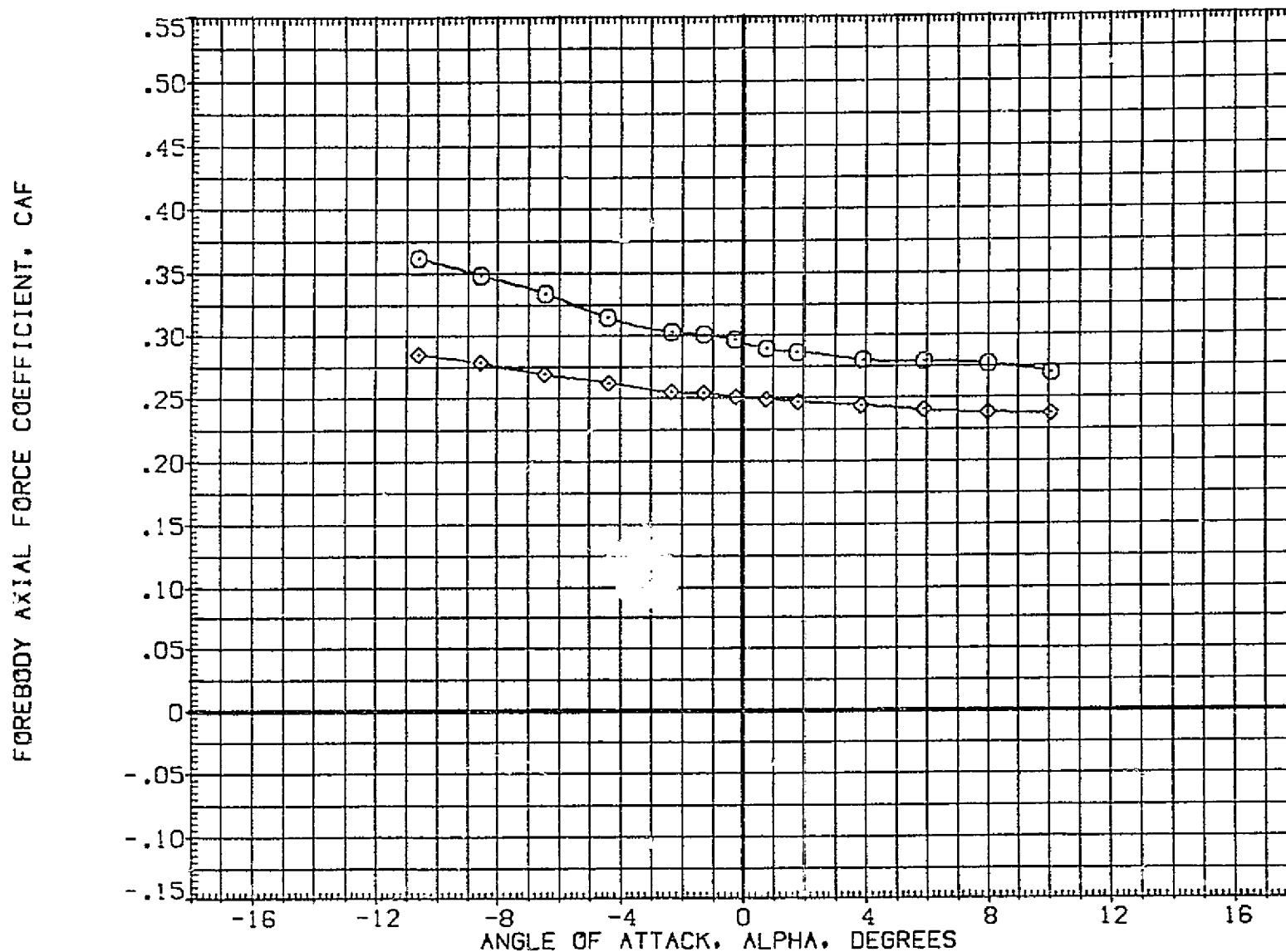


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013)	UPVT 1088/1119 (IA-44) CONFIGURATION	03/T4/S7

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	576.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

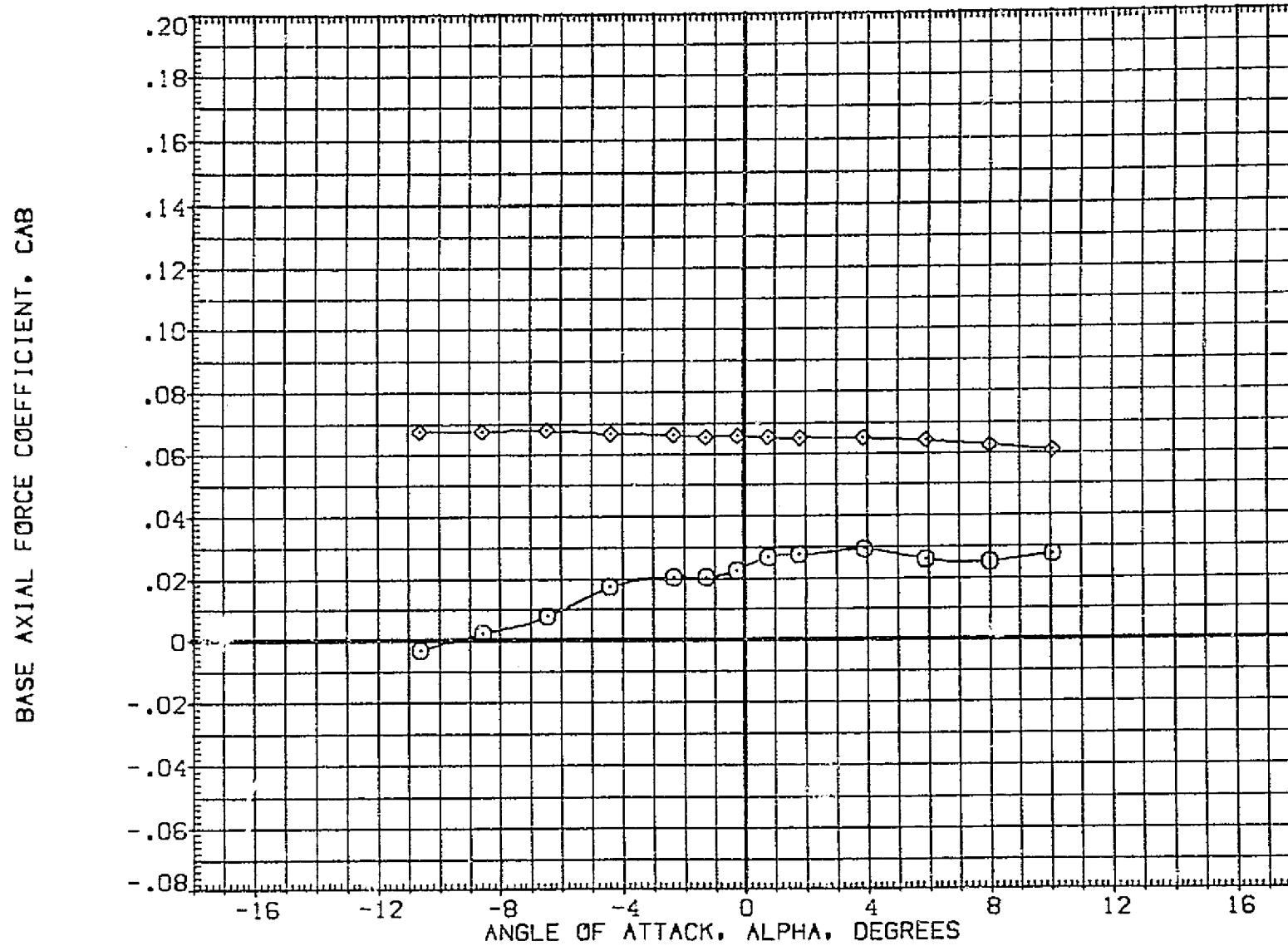


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003) ○	CPAT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012) ○	DATA NOT AVAILABLE	.000
(9-8013) ○	CPAT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	1/2 CHES
BREF	1290.3000	1/2 CHES
XMRP	976.0000	1/2 XT
YMRP	.0000	1/2 YT
ZMRP	400.0000	1/2 ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

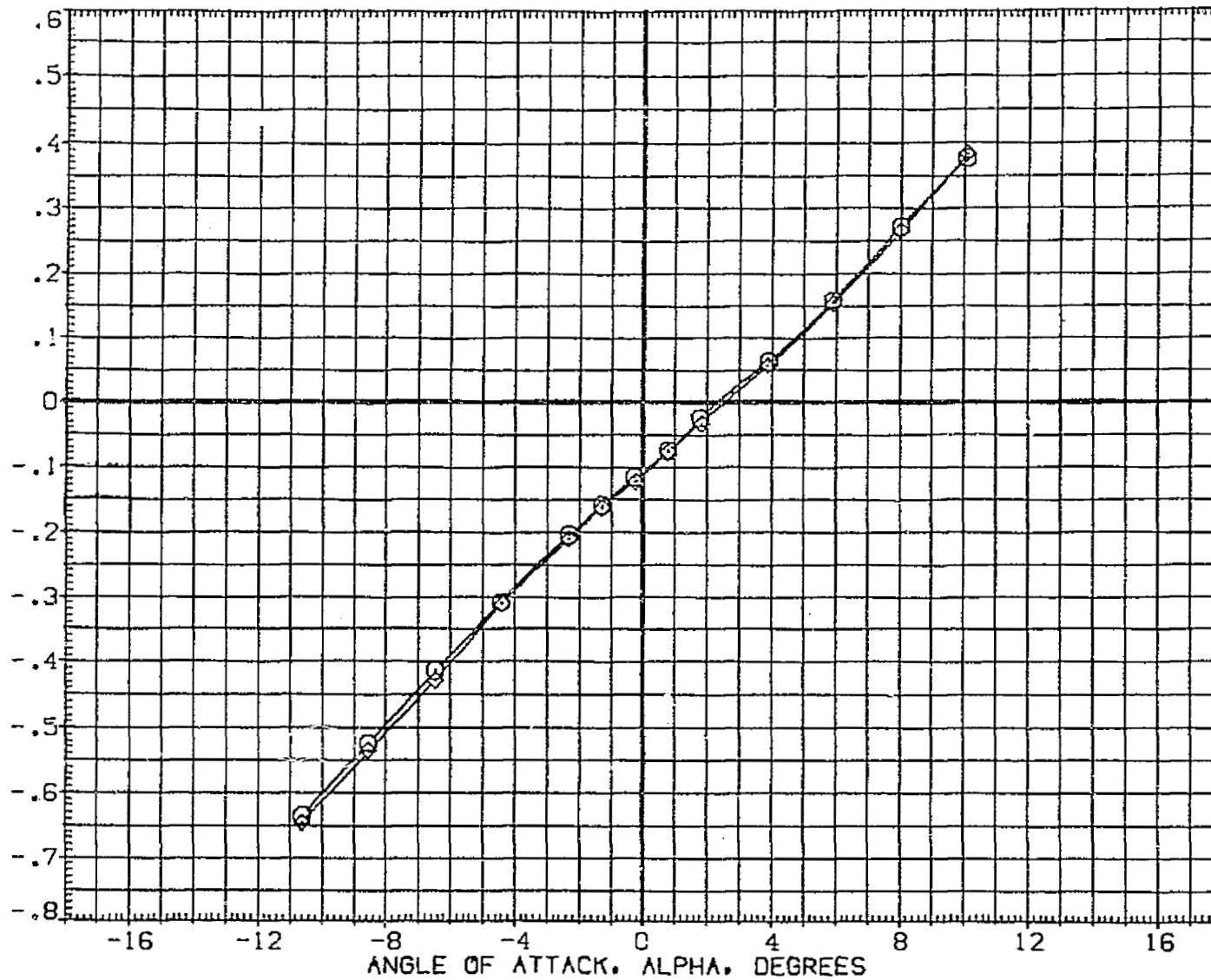


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(P-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7
(P-8012)	DATA NOT AVAILABLE	
(P-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION	03/T4/S7

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

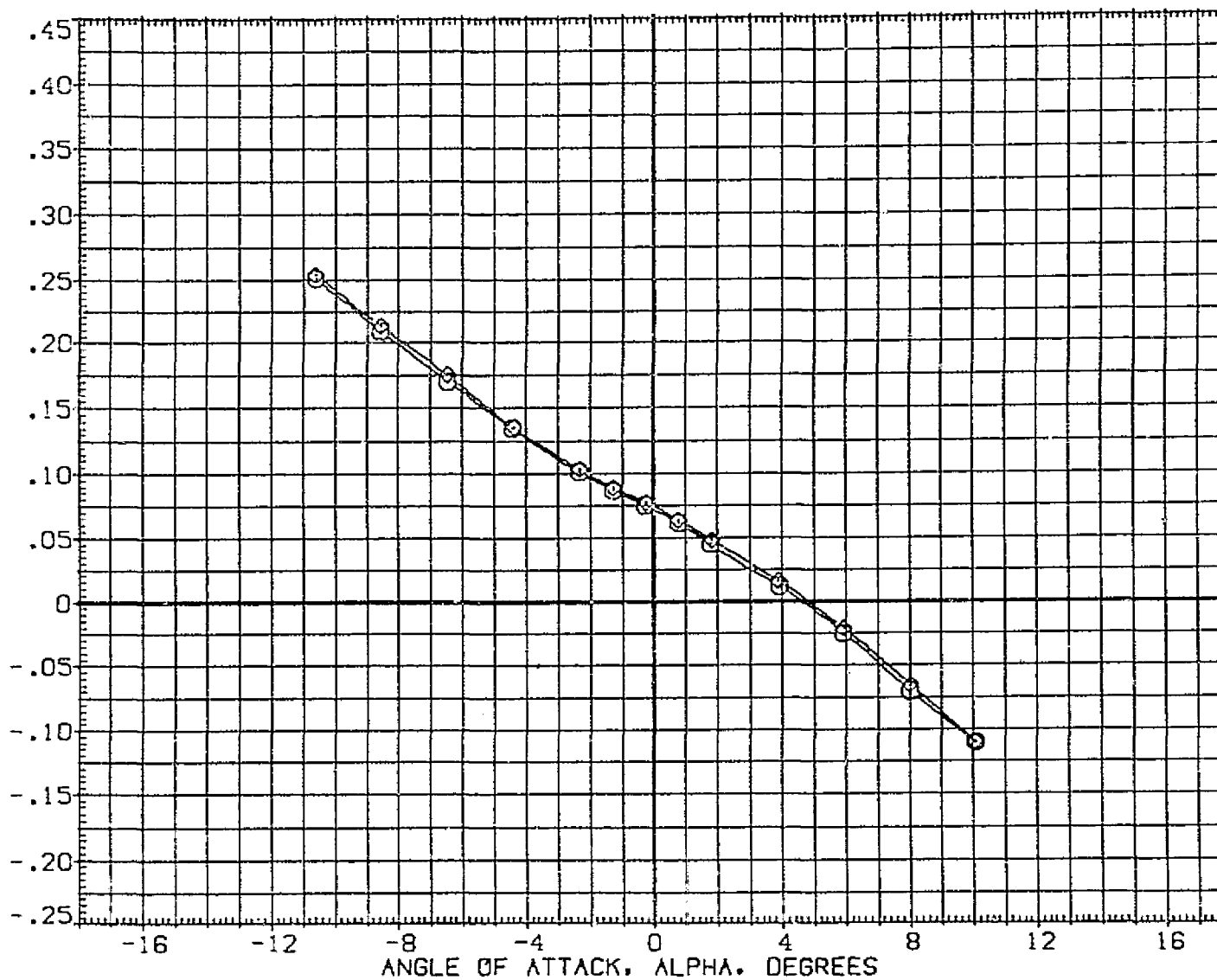


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	DATA NOT AVAILABLE	.000
(B-8013)	UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

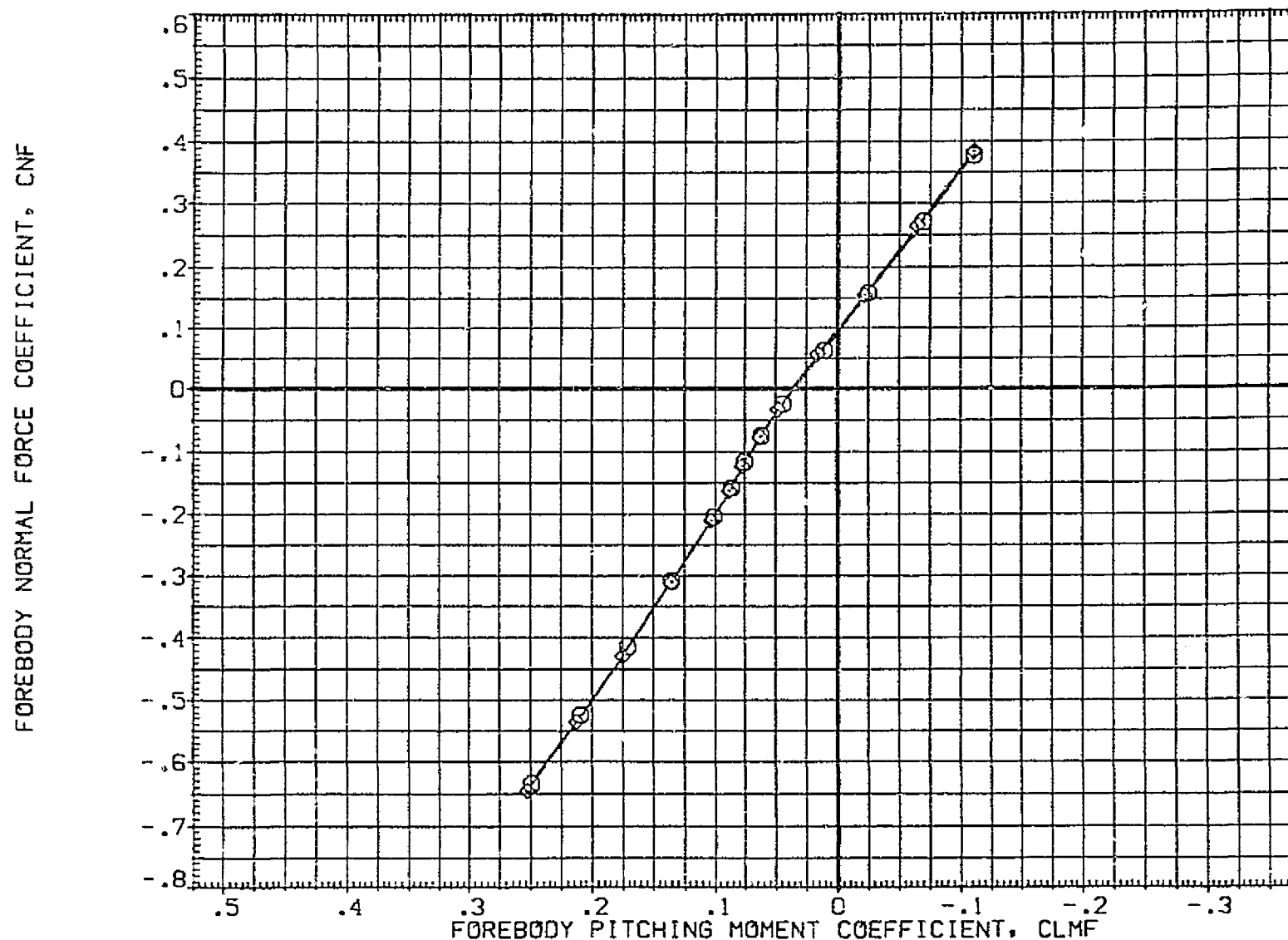


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

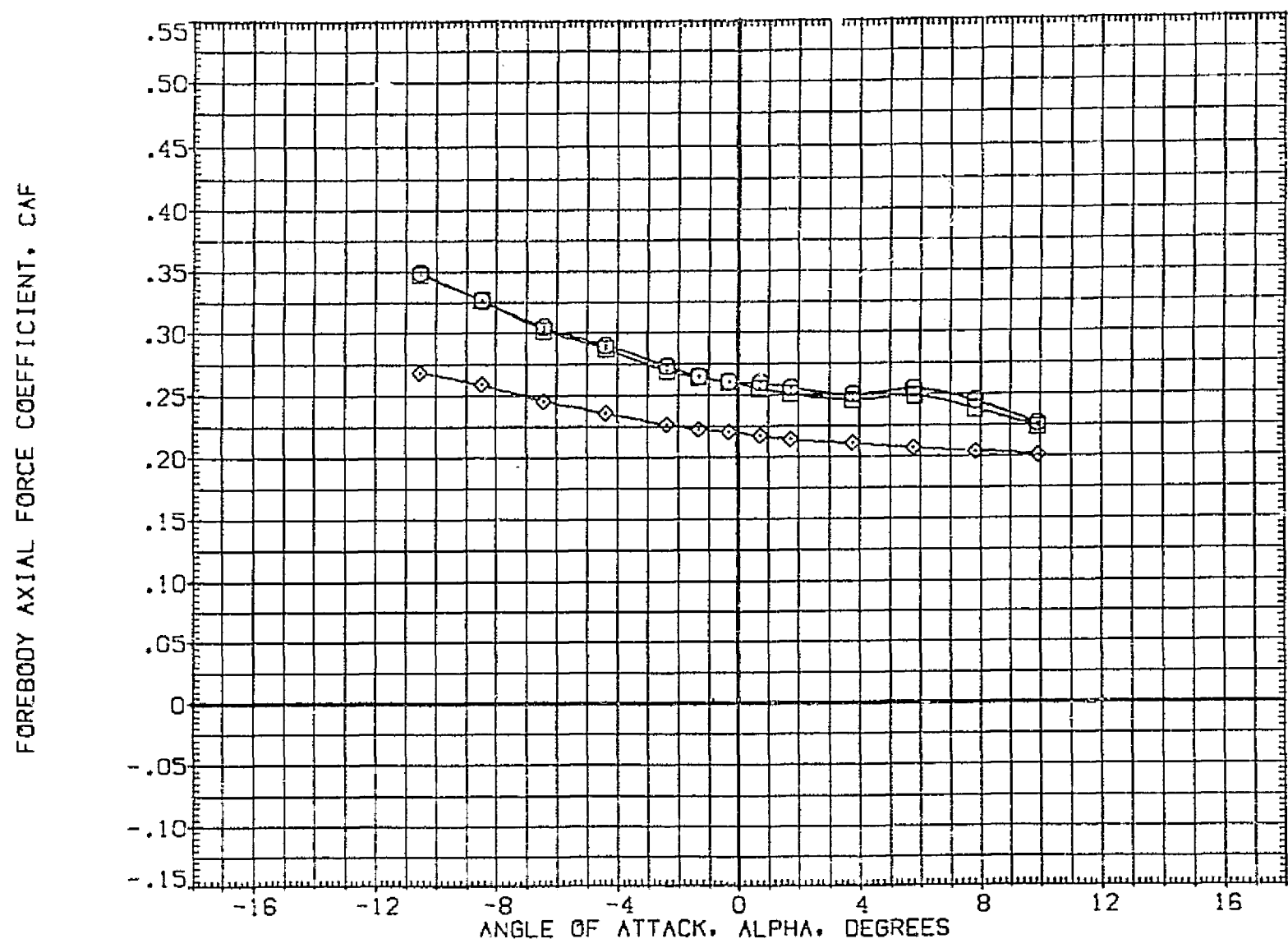


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. YT
SCALE	.0100	

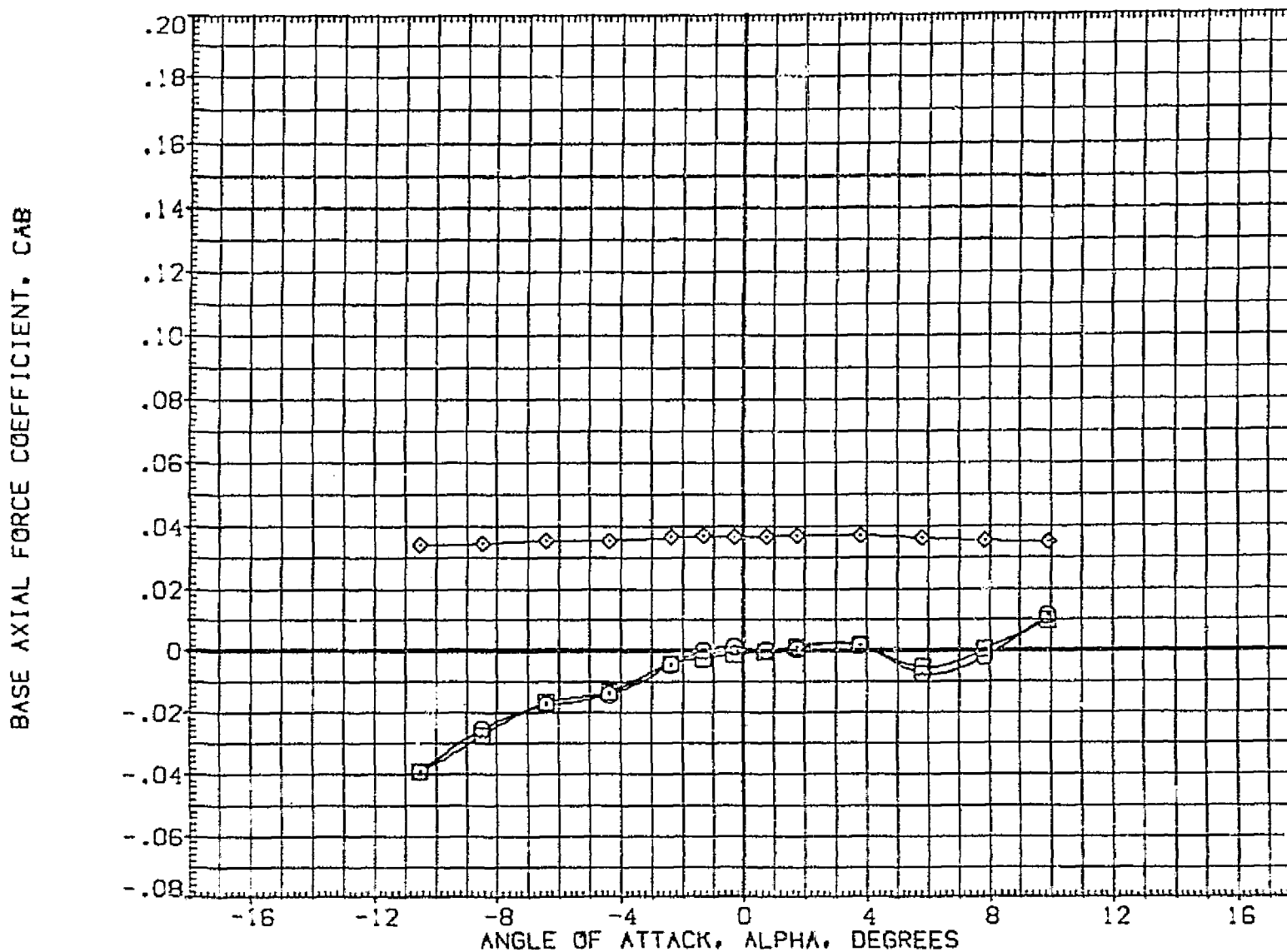


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012) ○	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-8013) ⊗	UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	60. FT.
LREF	1290.3000	104.65
BREF	1290.3000	104.65
XMR0	516.0000	IN. XT
YMR0	.0000	IN. YT
ZMR0	400.0000	IN. ZT
SCALE	.0100	

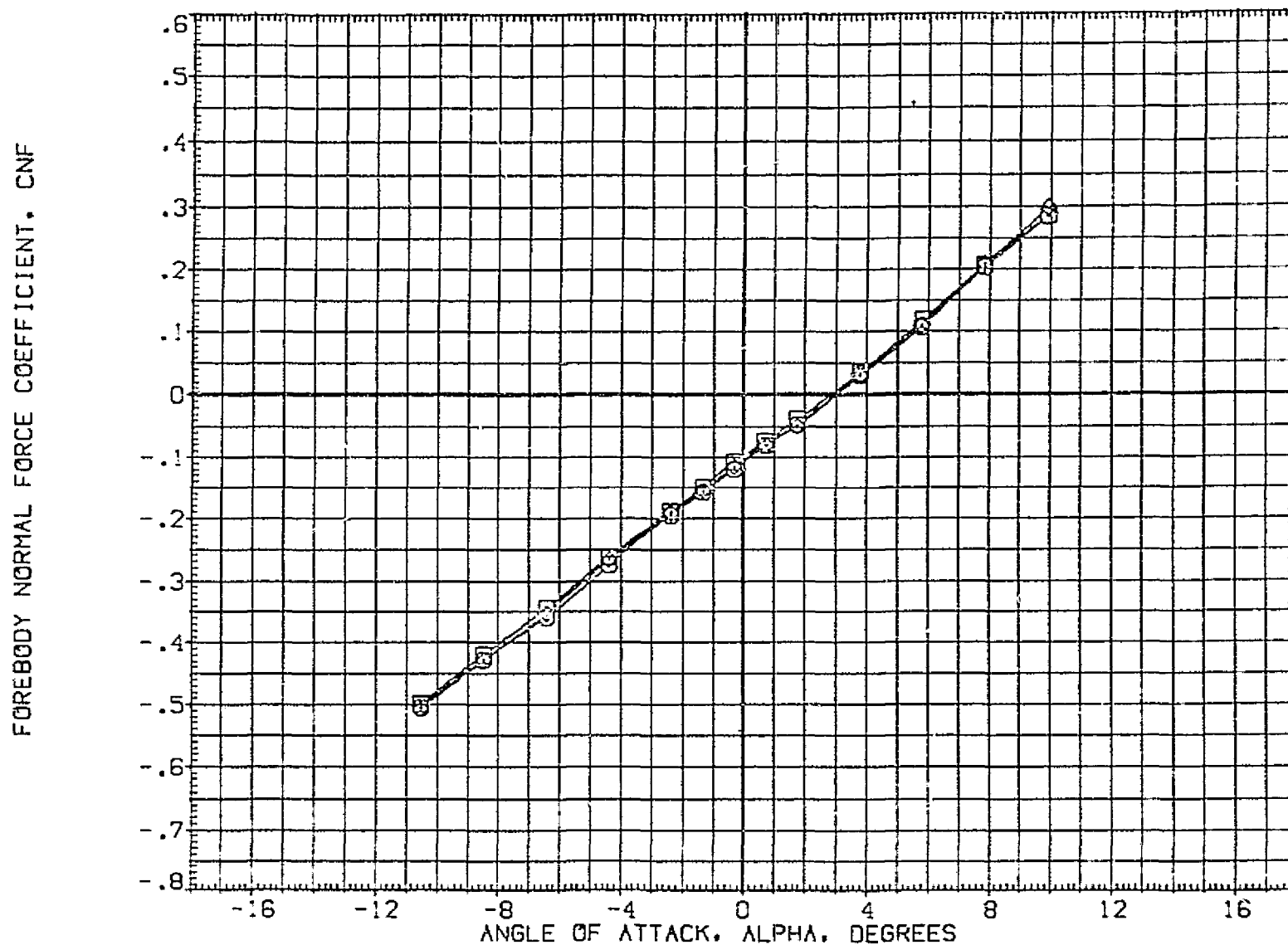


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-6003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-6013)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-6013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	IN. FT.
LREF	1290.3000	IN. CHES
BREF	1290.3000	IN. CHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

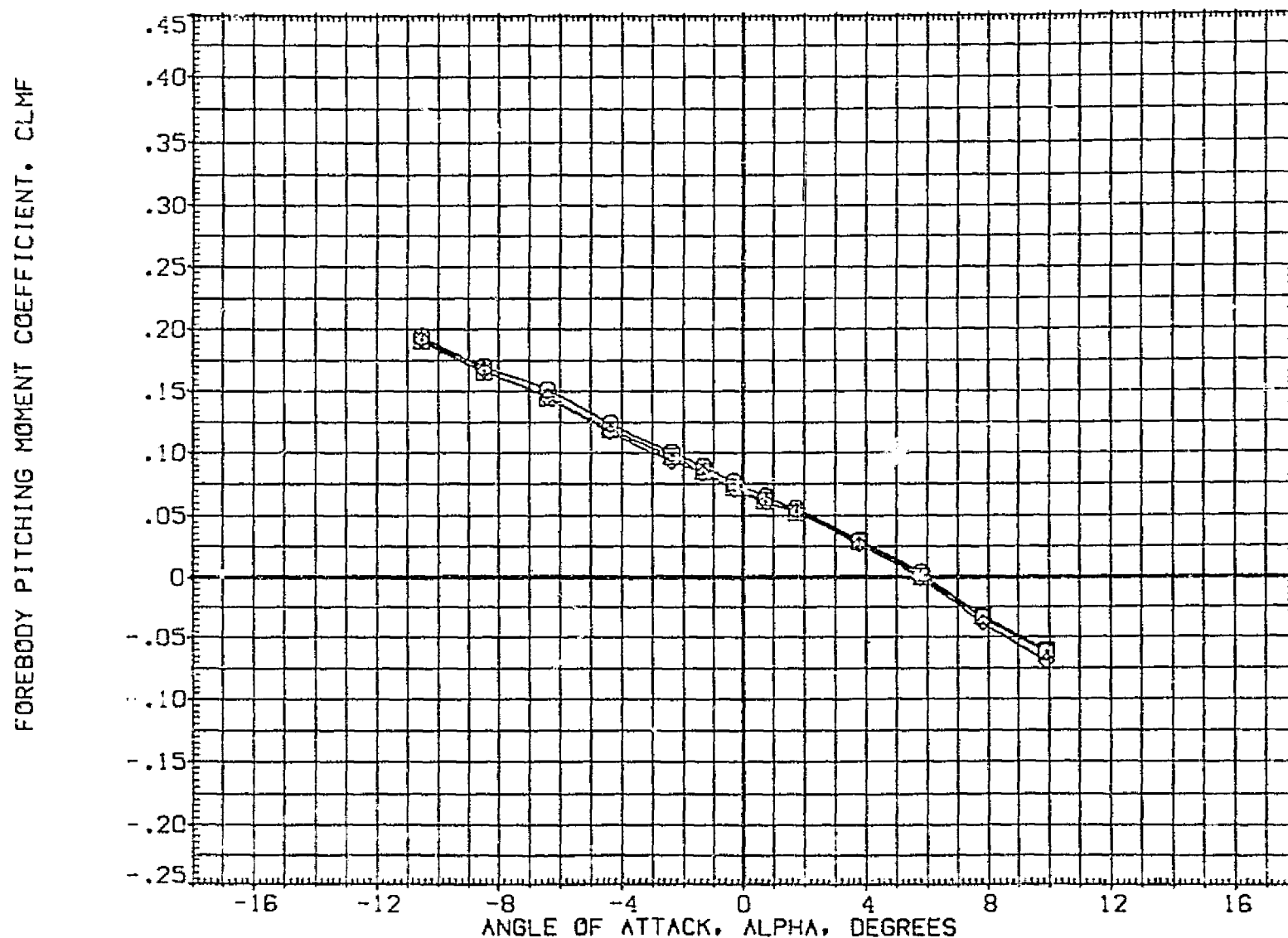


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) □	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012) □	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-8013) ◇	LPWT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2680.0000	SO. FT.
LREF	1280.3000	IN. FT.
BREF	1290.3000	IN. FT.
XREF	976.0000	IN. FT.
YREF	.0000	IN. FT.
ZREF	400.0000	IN. FT.
SCALE	.0100	

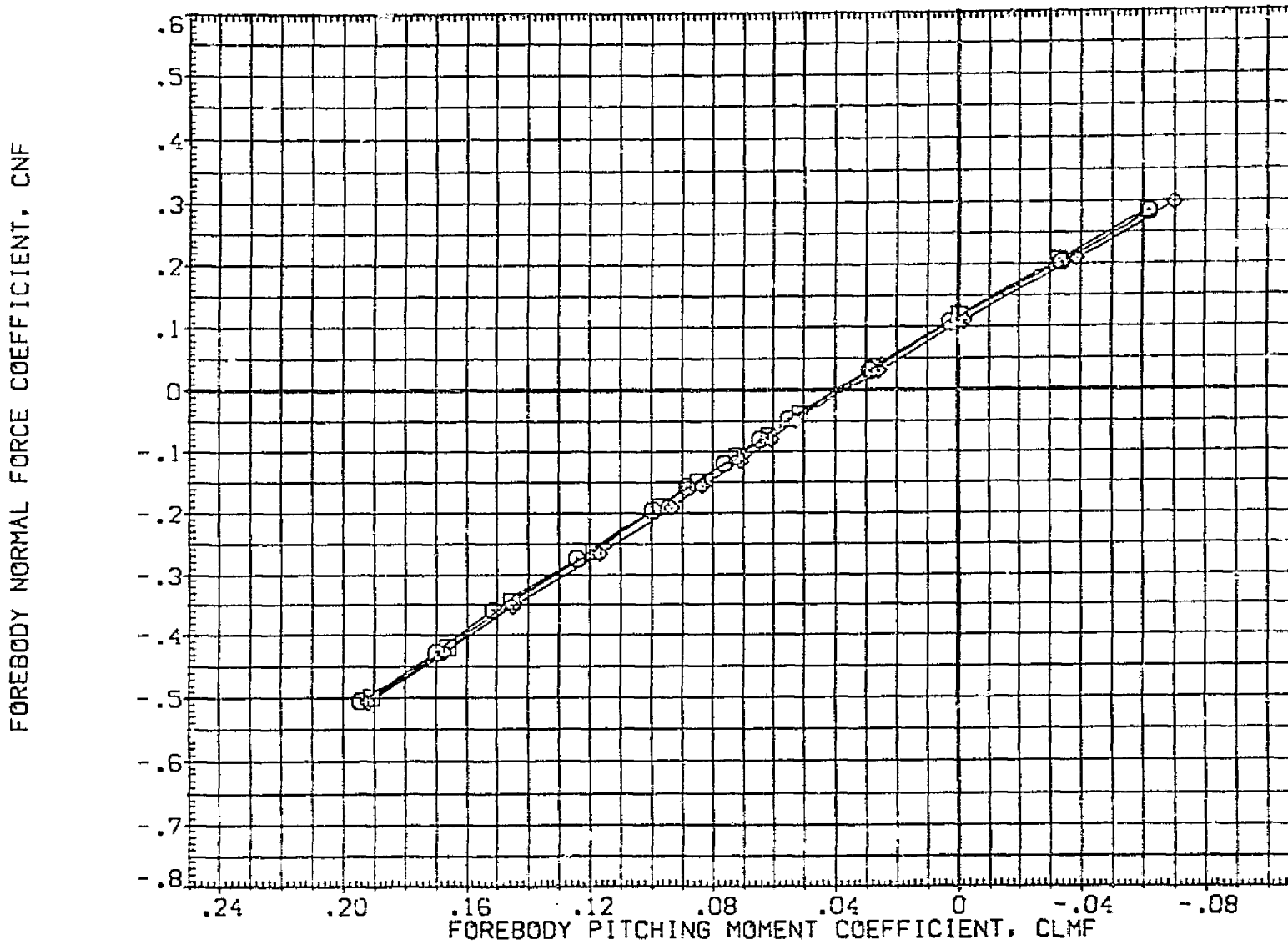


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SFT SYMBOL	CONFIGURATION DESCRIPTION	BETA
(8-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-8013) ◇	UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

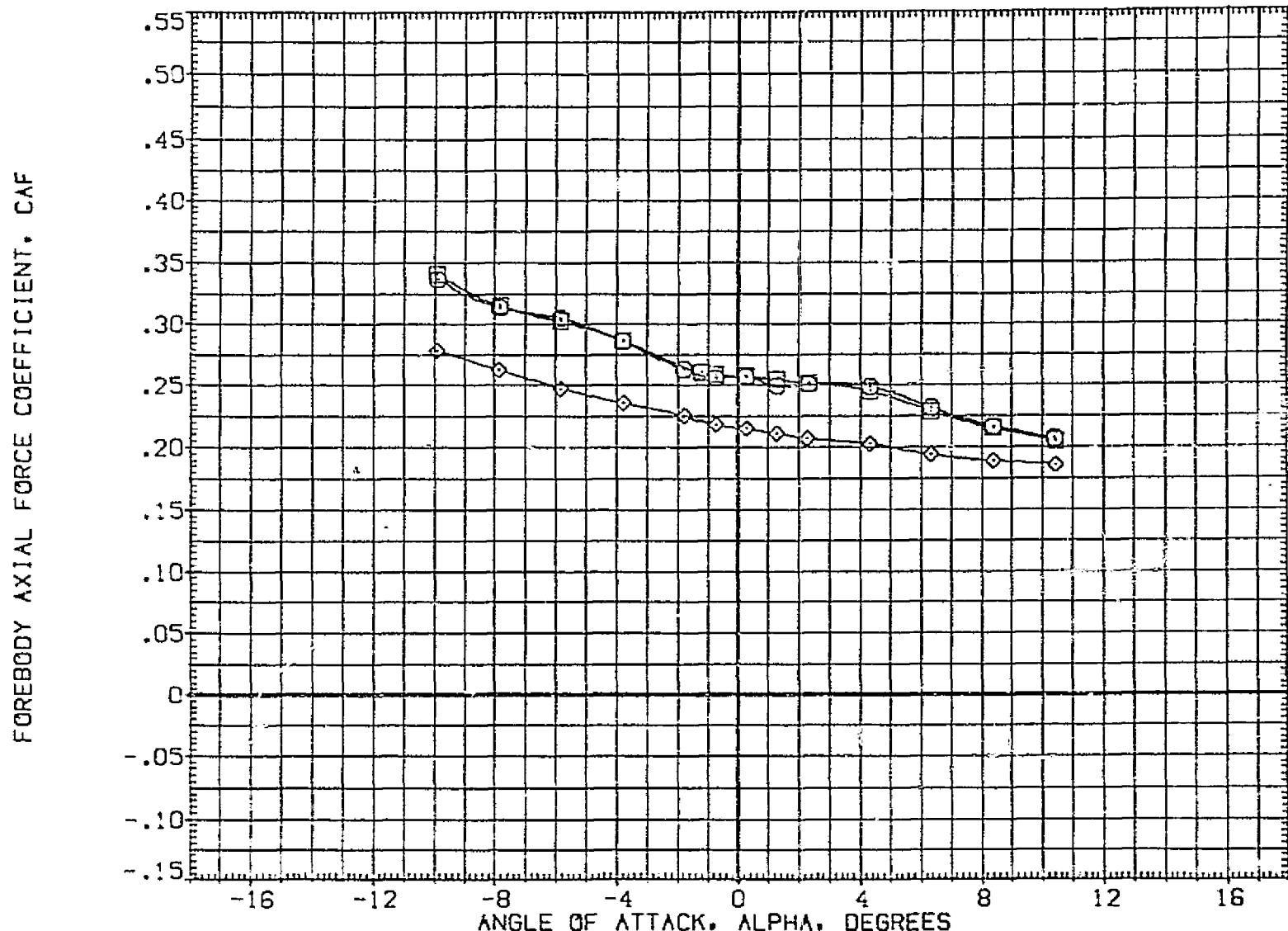


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.
 (F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(9-8012)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(9-8013)	LPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	1290.3000	60.65
BREF	1290.3000	60.65
XREF	976.0000	XT
YREF	.0000	YT
ZREF	400.0000	ZT
SCALE	.0100	

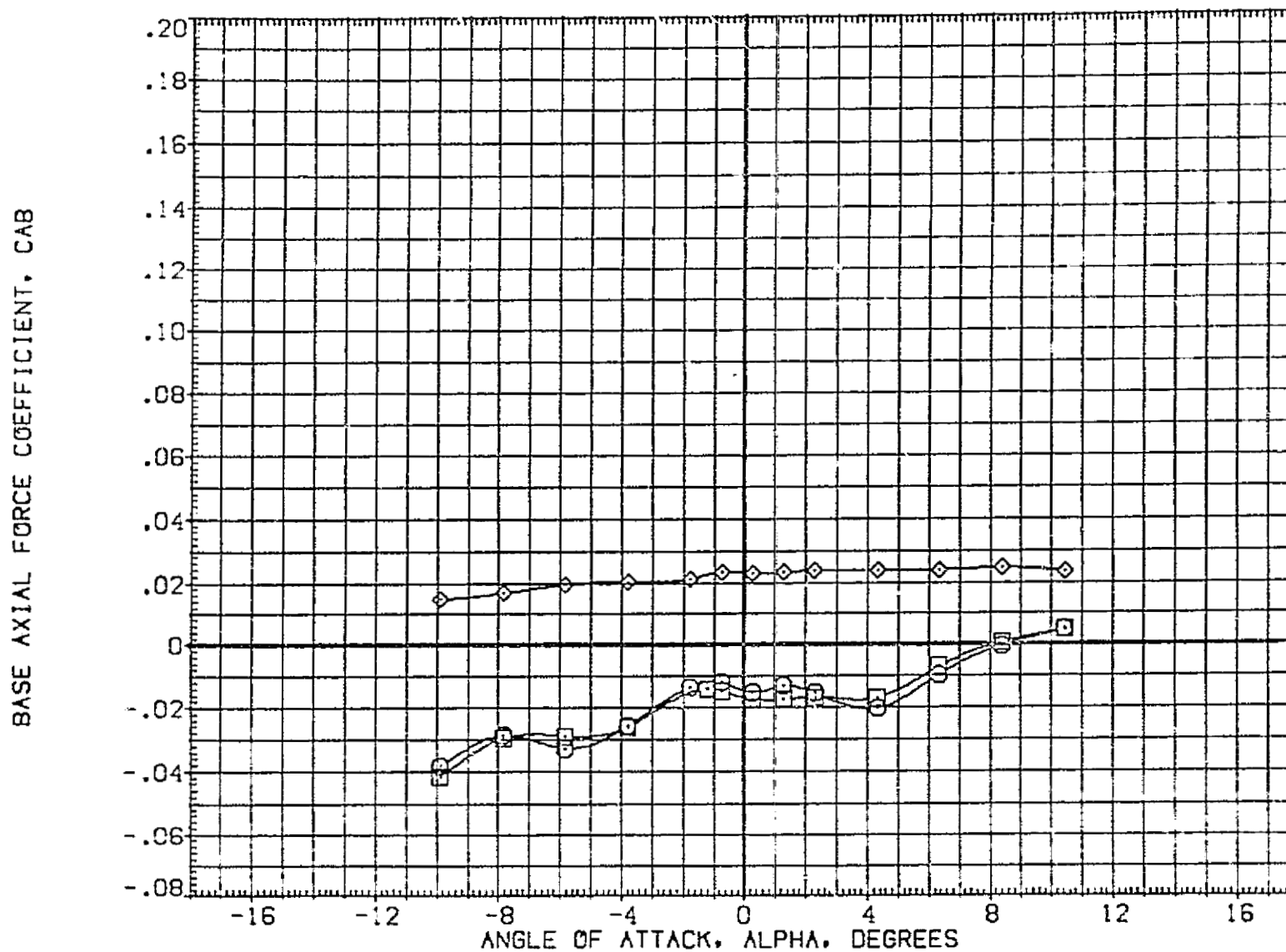


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000
(B-8013)	UPVT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

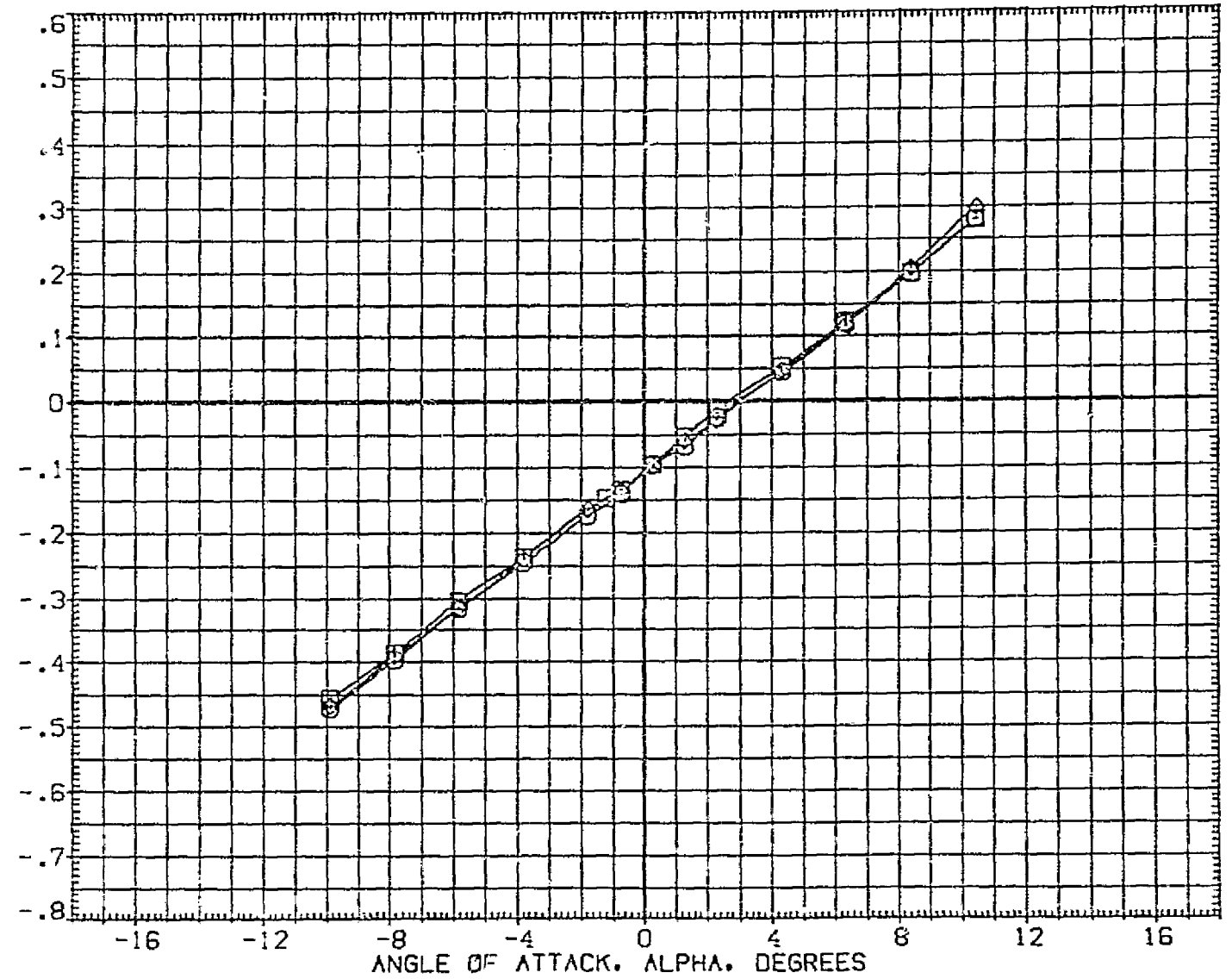


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8012)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S8	.000
(B-8013)	LPVT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	176.466
BREF	1290.3000	176.466
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

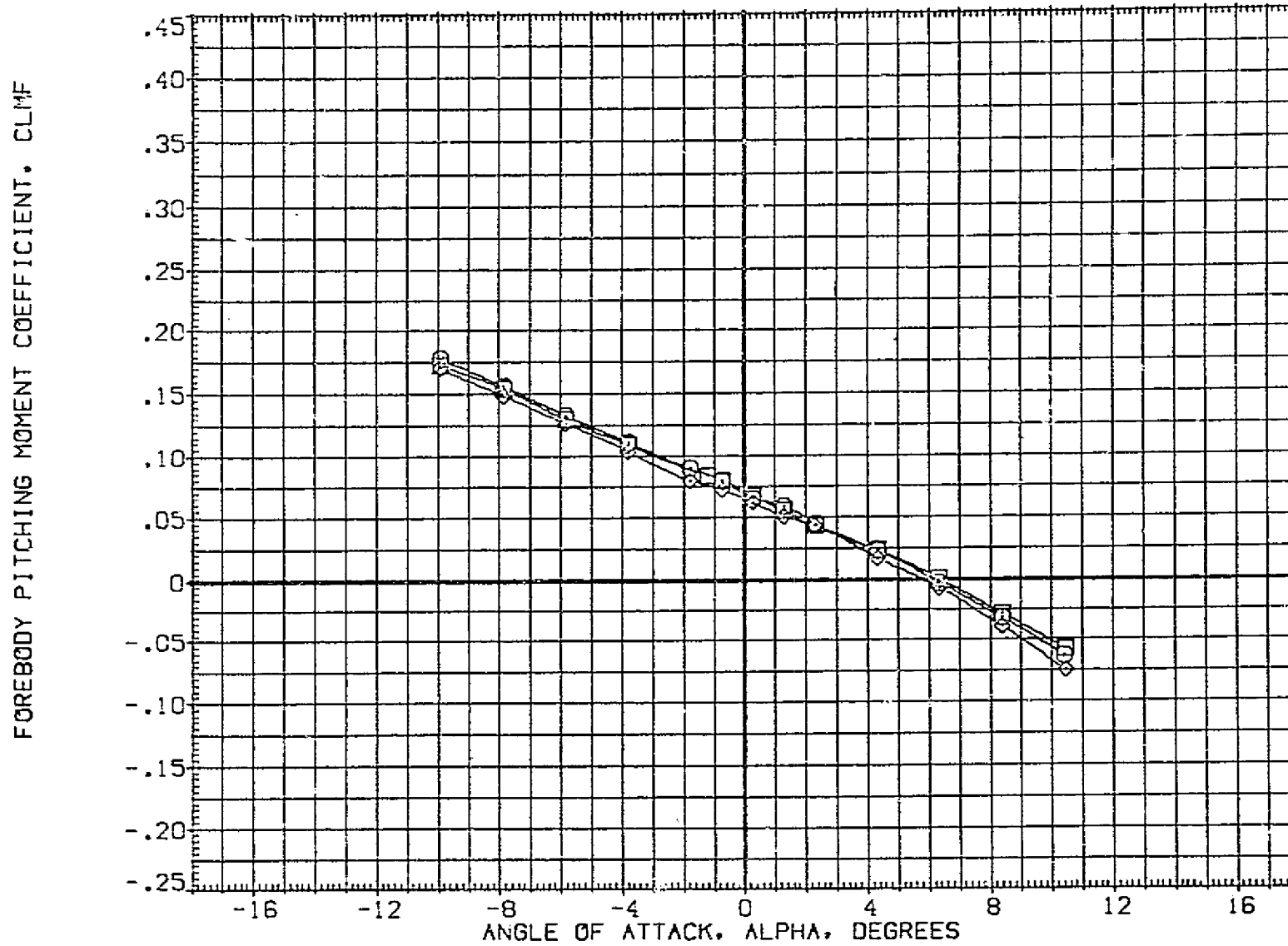


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8003) ○	LPYT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	SREF 2690.0000 SQ. FT. LREF 1290.3000 INCHES
(B-8012) □	LPYT 1088/1119 (1A-44) CONFIGURATION 02/T4/S8	.000	BREF 1290.3000 INCHES
(B-8013) ◇	LPYT 1088/1119 (1A-44) CONFIGURATION 03/T4/S7	.000	XMRP 976.0000 IN. XT YMRP .0000 IN. YT ZMRP 400.0000 IN. ZT SCALE .0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

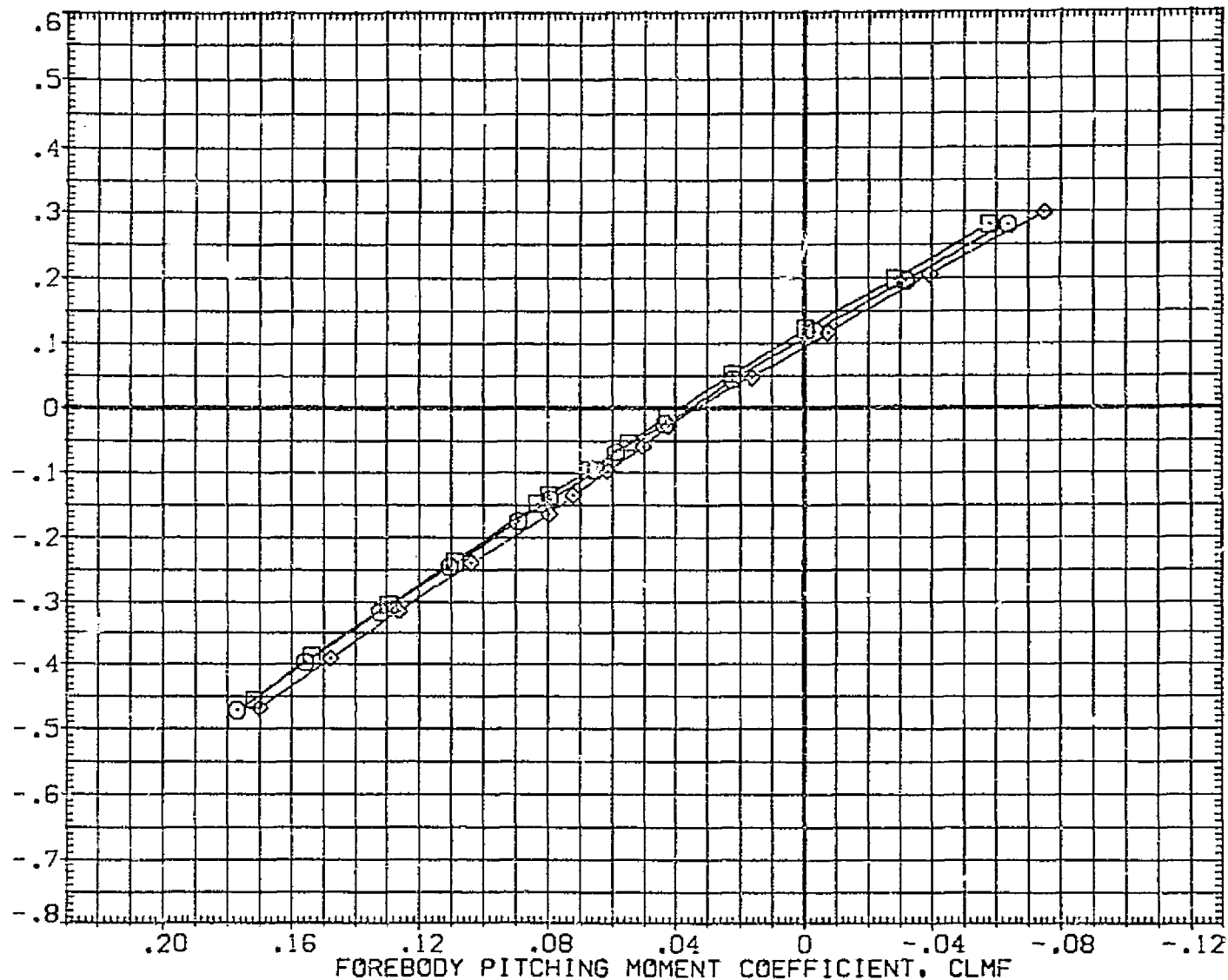


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8C03) ○	LARC BFT/UPWT(1A-43.44) CONFIGURATION 02/T4/S7	.000
(B-8C12) □	LARC BFT/UPWT(1A-43.44) CONFIGURATION 02/T4/S8	.000
(B-8C13) ◇	LARC BFT/UPWT(1A-43.44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

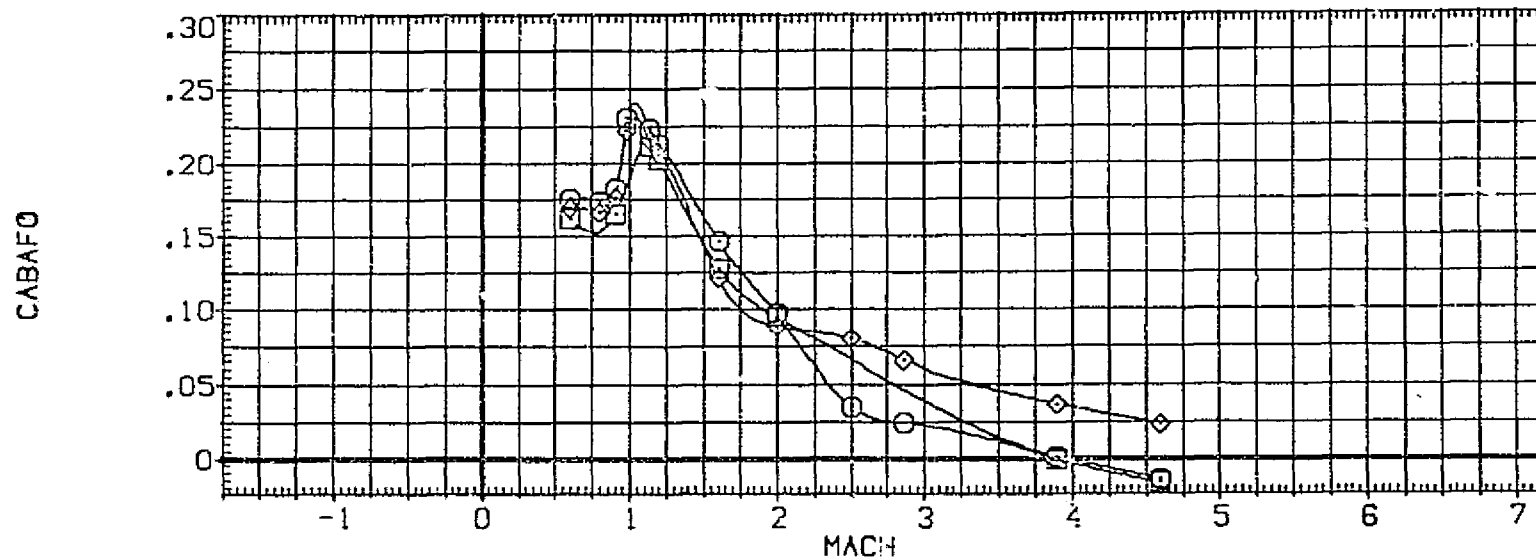
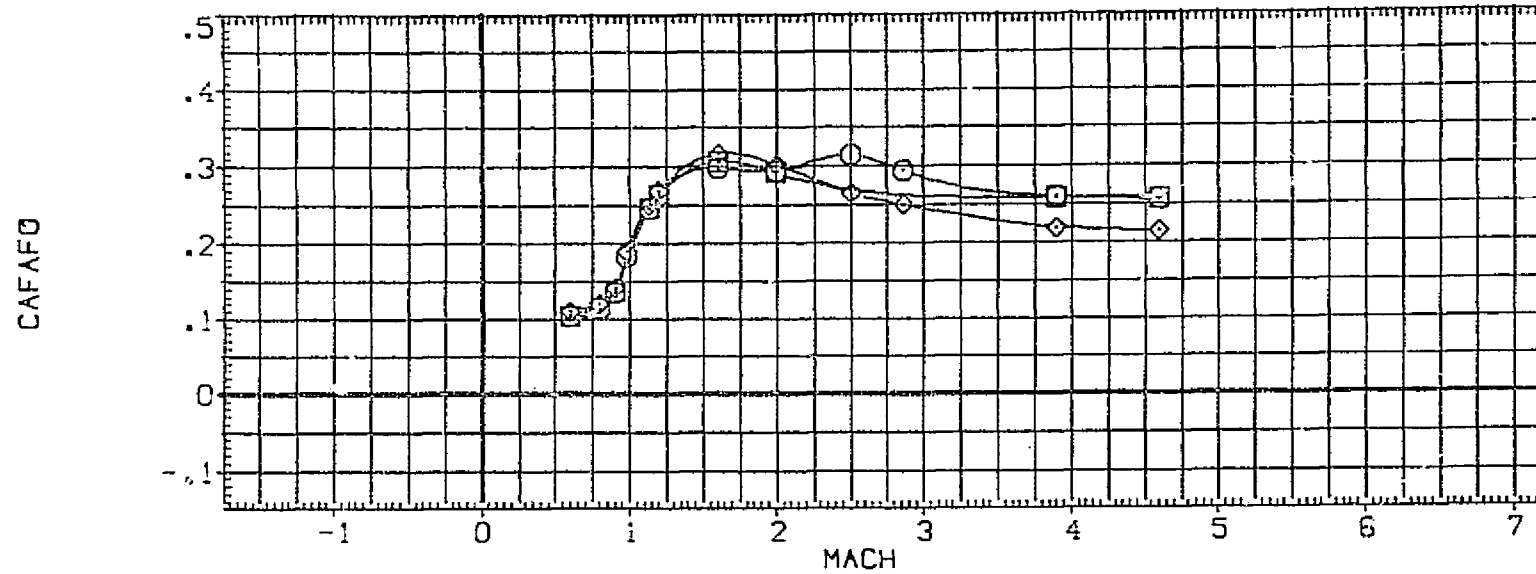


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(8-8C03)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 02/T4/S7	.000
(8-8C12)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 02/T4/S8	.000
(8-8C13)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

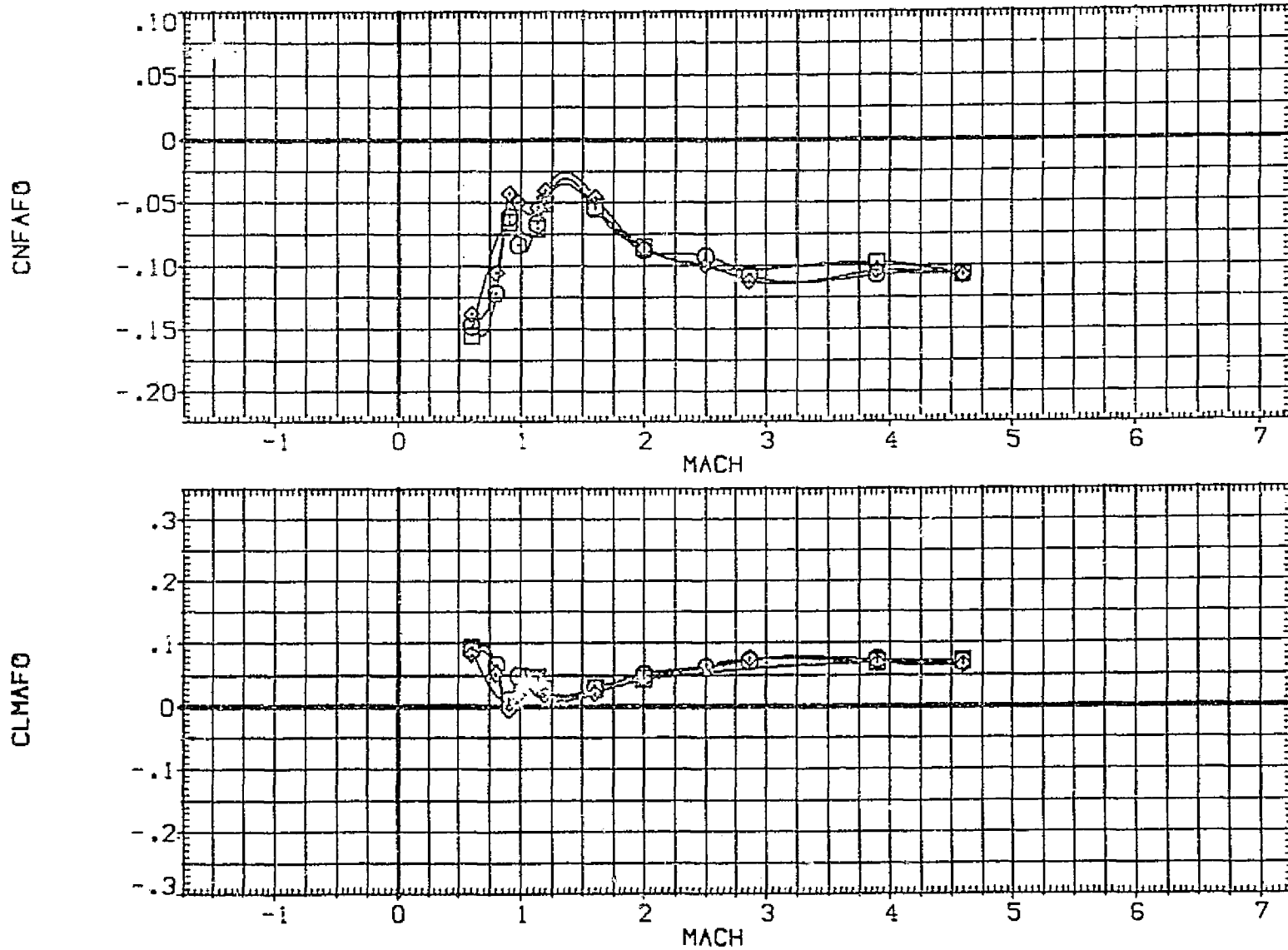


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(9-8C03)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 02/T4/S7	.000	SREF	2690.0000 SQ.FT.
(9-8C12)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 02/T4/S8	.000	LREF	1290.3000 INCHES
(9-8C13)	LARC 8FT/LPVT(1A-43,44) CONFIGURATION 03/T4/S7	.000	BREF	1290.3000 INCHES
			XMRP	976.0000 IN. XT
			YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

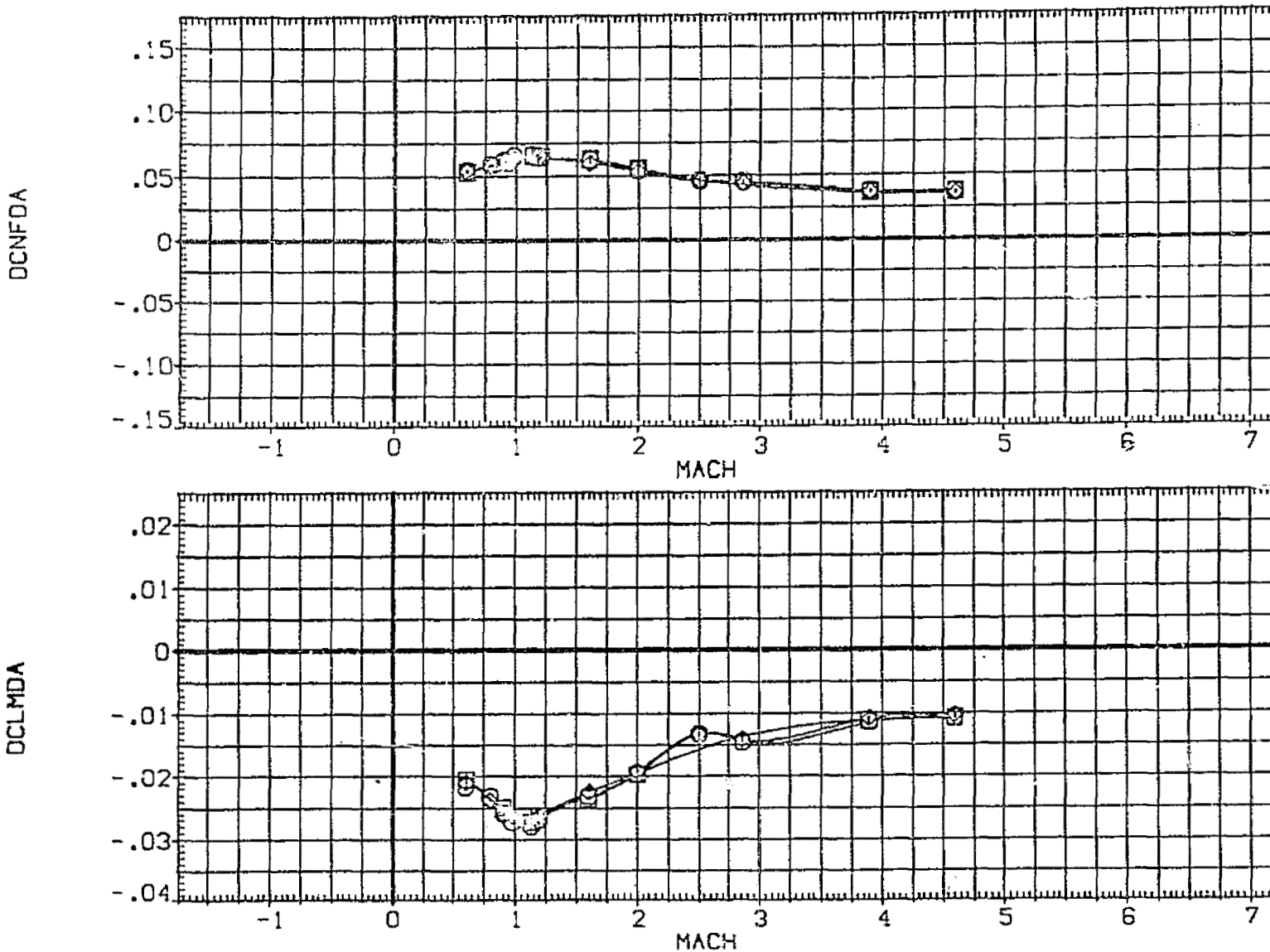


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8C03)	LARC 8FT/UPVT(IA-43.44) CONFIGURATION 02/T4/S7	.000
(B-8C12)	LARC 8FT/UPVT(IA-43.44) CONFIGURATION 02/T4/S8	.000
(B-8C13)	LARC 8FT/UPVT(IA-43.44) CONFIGURATION 03/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

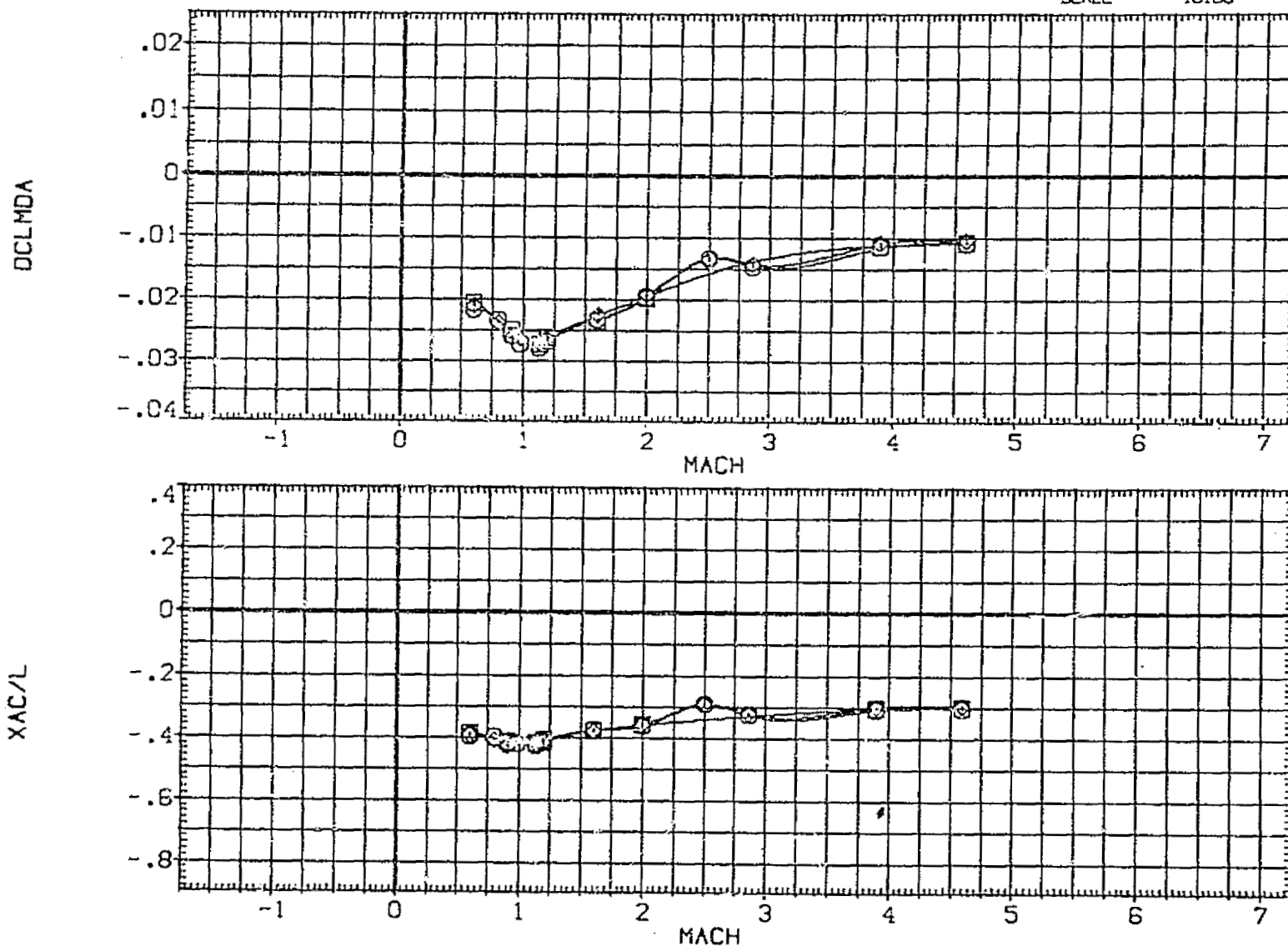


FIGURE 7 OMS POD AND SRB SKIRT EFFECT ON LAUNCH VEHICLE LONG. CHARACT.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION			
(9-6001)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S1	.000	SR REF	2690.0000	50. F1
(9-6002)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S2	.000	BL REF	1290.3000	11.6. F1
(9-6003)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S3	.000	BR REF	1290.3000	11.6. F1
(9-6004)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S6	.000	X REF	976.0000	12.7. XT
(9-6005)	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	.000	Y REF	.0000	12.7. YT
				Z REF	400.0000	12.7. ZT
				SCALE	.0100	

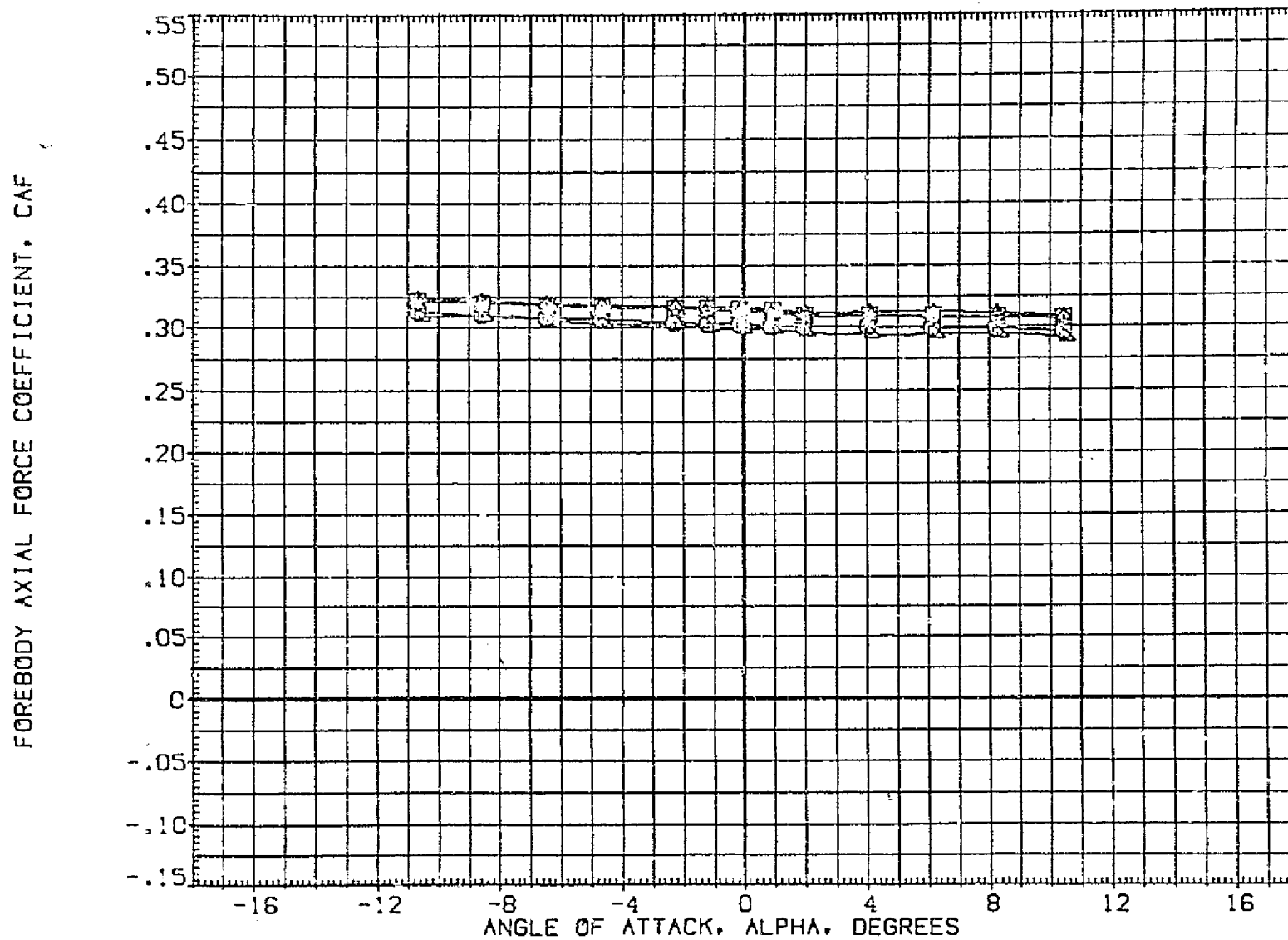


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(9-6011)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ.FT.
(9-6010)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF	1290.3000 INCHES
(9-6009)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S3	.000	BREF	1290.3000 INCHES
(9-6008)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S6	.000	XMR0	976.0000 IN. XT
(9-6003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMR0	.0000 IN. YT
			ZMR0	400.0000 IN. ZT
			SCALE	.0:00

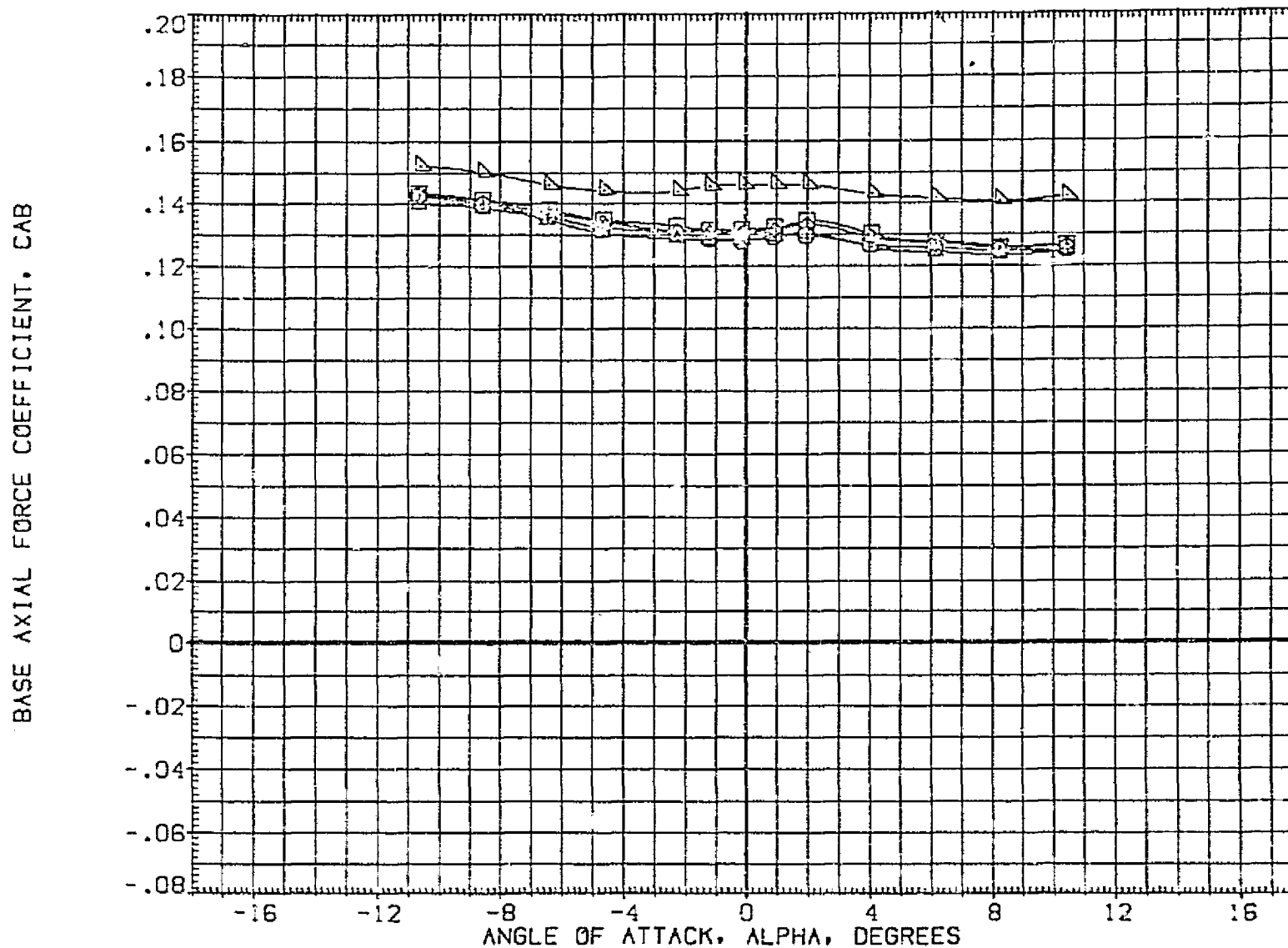


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8011)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S1	.000
(9-8010)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S2	.000
(9-8009)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S3	.000
(9-8008)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S6	.000
(9-8003)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT
LREF	1290.3000	15.0000
BREF	1290.3000	15.0000
XREF	976.0000	XT
YREF	.0000	YT
ZREF	400.0000	ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

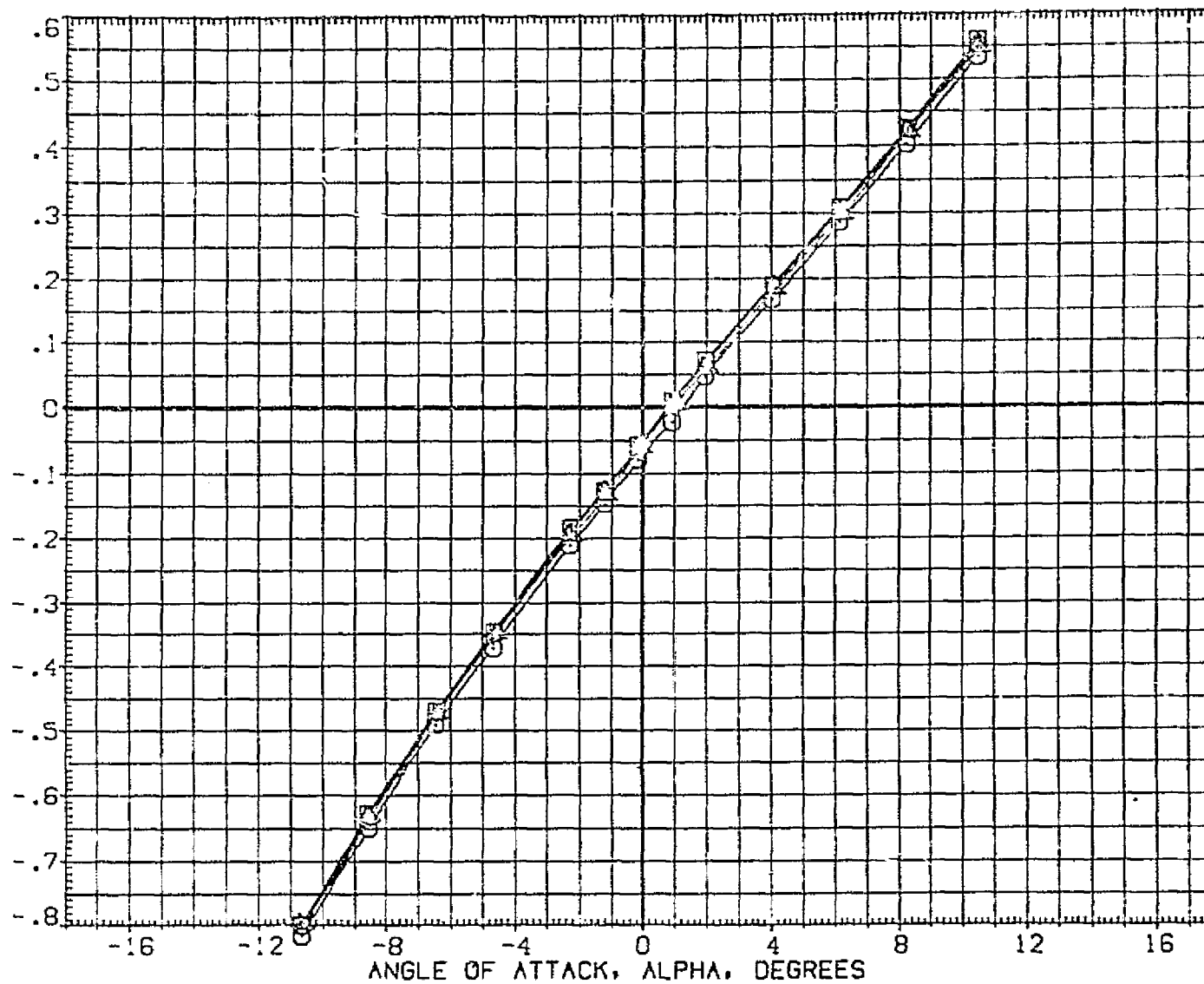


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8011)	CPVT (088/1119 (A-44) CONFIGURATION 02/T4/S1	.000
(9-8010)	CPVT (088/1119 (A-44) CONFIGURATION 02/T4/S2	.000
(9-8009)	CPVT (088/1119 (A-44) CONFIGURATION 02/T4/S3	.000
(9-8008)	CPVT (088/1119 (A-44) CONFIGURATION 02/T4/S6	.000
(9-8003)	CPVT (088/1119 (A-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

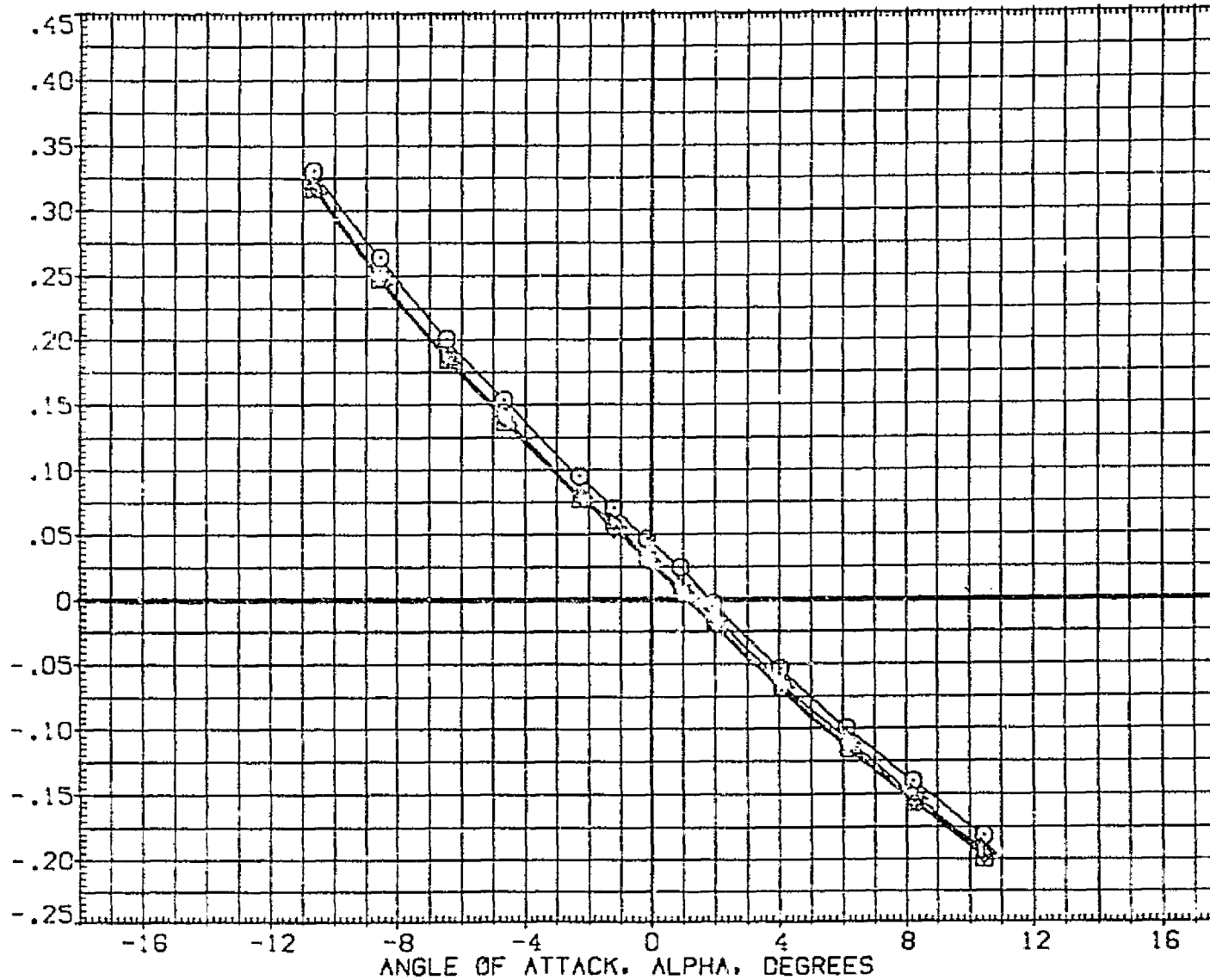


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	0 SPT 1088/1119 (A-44) CONFIGURATION 02/T4/S1	.000	SREF 2680.0000 50.FT
(B-8010)	0 SPT 1088/1119 (A-44) CONFIGURATION 02/T4/S2	.000	LREF 1280.0000 70.FT
(B-8009)	0 SPT 1088/1119 (A-44) CONFIGURATION 02/T4/S3	.000	BREF 1280.0000 70.FT
(B-8008)	0 SPT 1088/1119 (A-44) CONFIGURATION 02/T4/S6	.000	XREF 976.0000 70.FT
(B-8003)	0 SPT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	YREF .0000 70.FT
			ZREF 400.0000 70.FT
			SCALE .0100

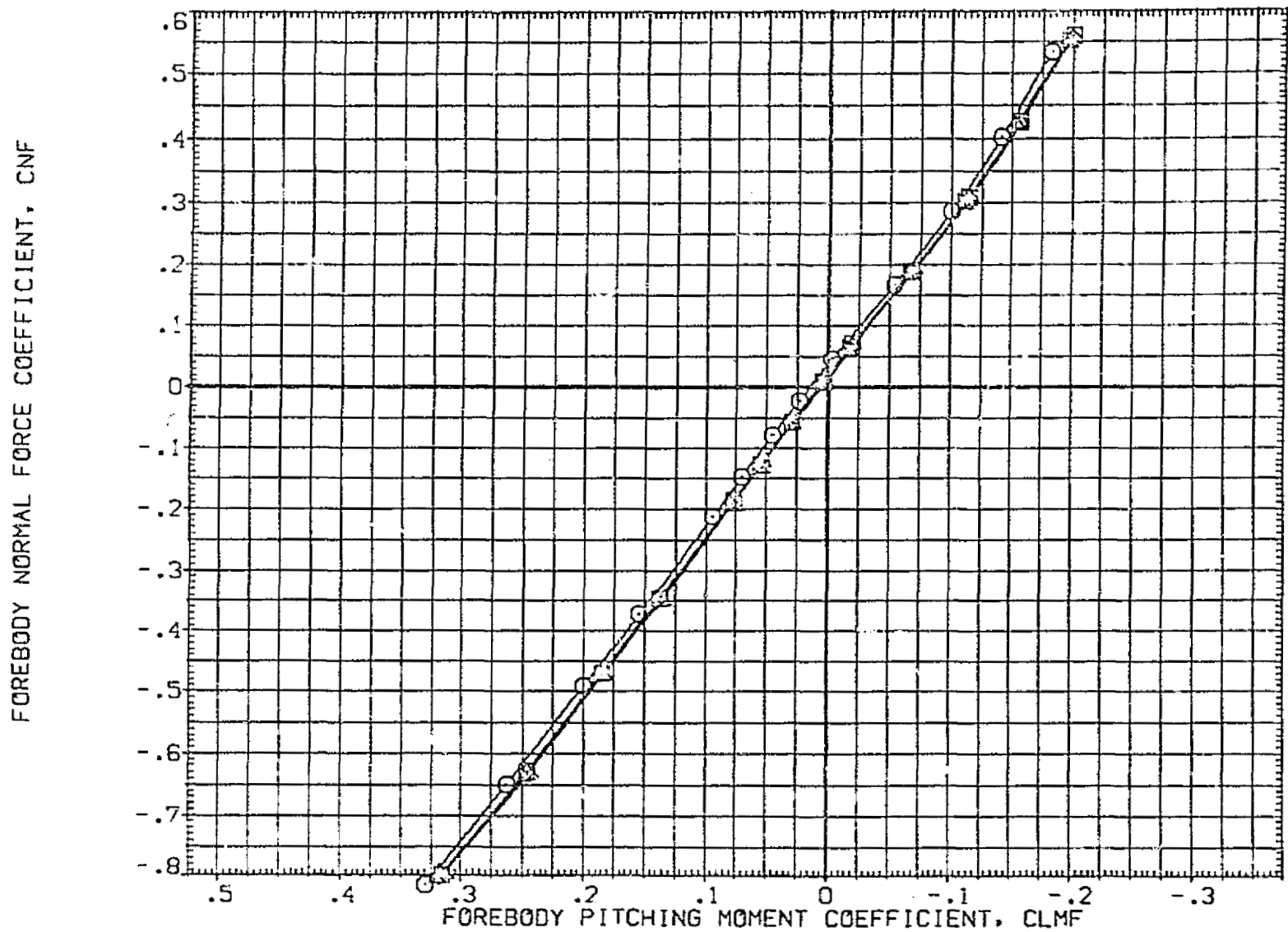


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	Q UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF 2690.0000 SQ.FT.
(B-8010)	Q UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF 1290.3000 INCHES
(B-8009)	Q UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S3	.000	BREF 1290.3000 INCHES
(B-8008)	Q UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S6	.000	XMRP 976.0000 IN. XT
(B-8003)	Q UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .01:00

FOREBODY AXIAL FORCE COEFFICIENT, CAF

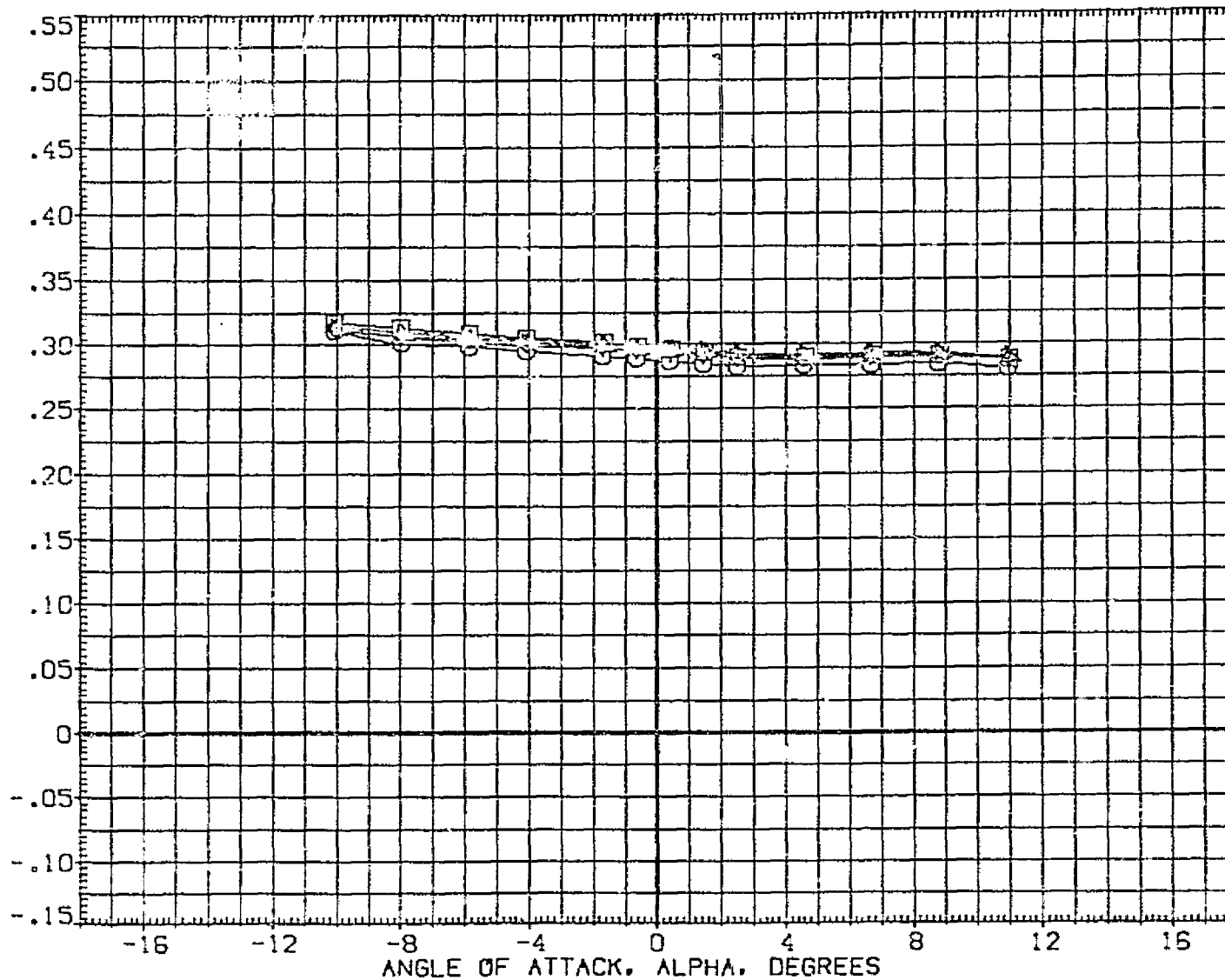


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B) 80111	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S1	.000
(B) 80110	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S2	.000
(B) 80089	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S3	.000
(B) 80088	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S6	.000
(B) 80033	UPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	.000
			SREF 2680.0000 56. FT
			LREF 1290.0000 70. FT
			BREF 1290.0000 70. FT
			YMRP 976.0000 12. XT
			ZMRP 100.0000 12. ZT
			SCALE .0100

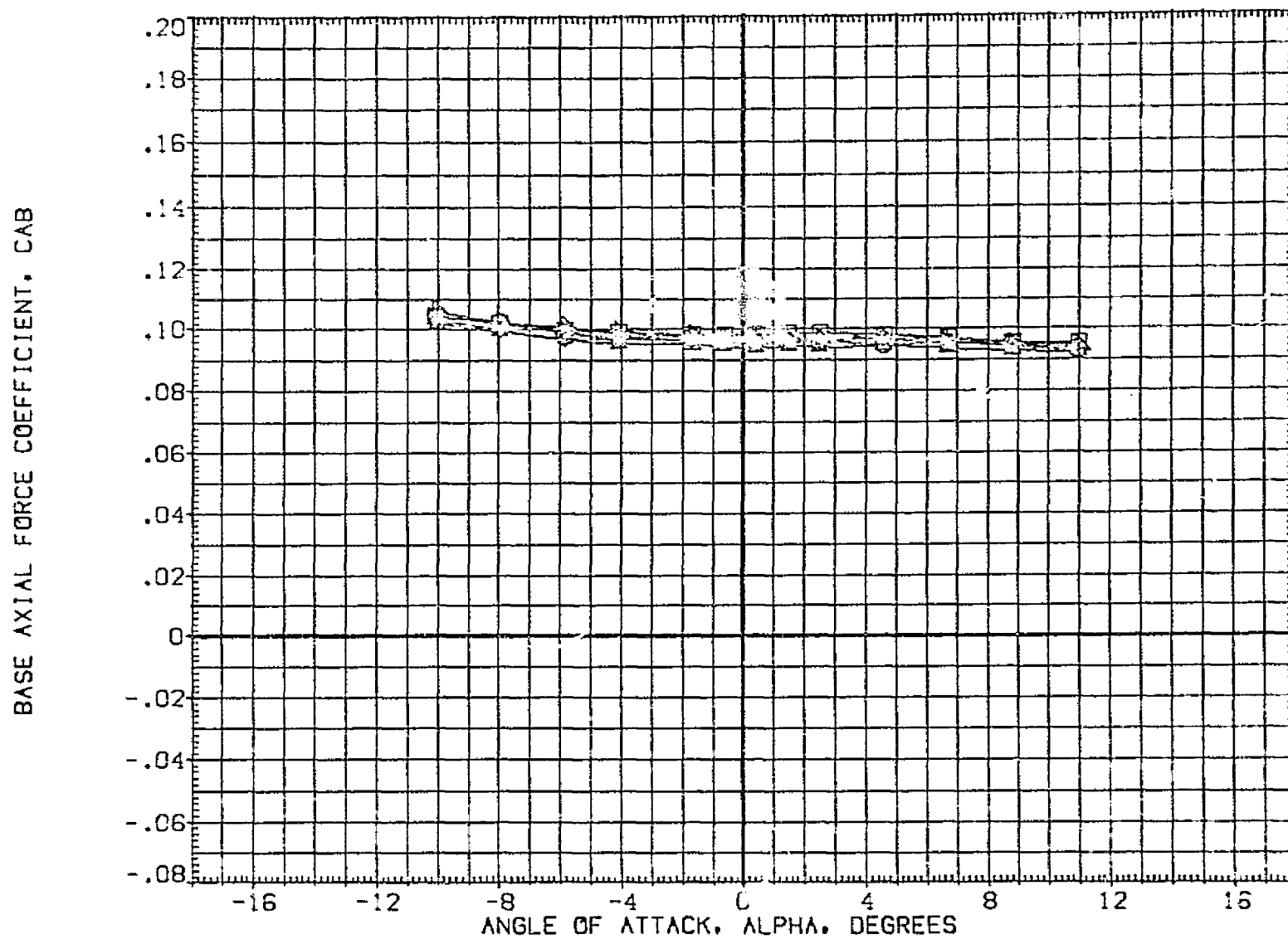


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION		
(9-8011)	Q LPVT 1C88/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000	50. FT.
(9-8010)	Q LPVT 1C88/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF	1290.3000	INCHES
(9-8009)	Q LPVT 1C88/1119 (1A-44) CONFIGURATION 02/T4/S3	.000	SREF	1290.3000	INCHES
(9-8008)	Q LPVT 1C88/1119 (1A-44) CONFIGURATION 02/T4/S6	.000	XMRP	976.0000	IN. XT
(9-8003)	Q LPVT 1C88/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP	.0000	IN. YT
			ZMRP	400.0000	IN. ZT
			SCALE	.0100	

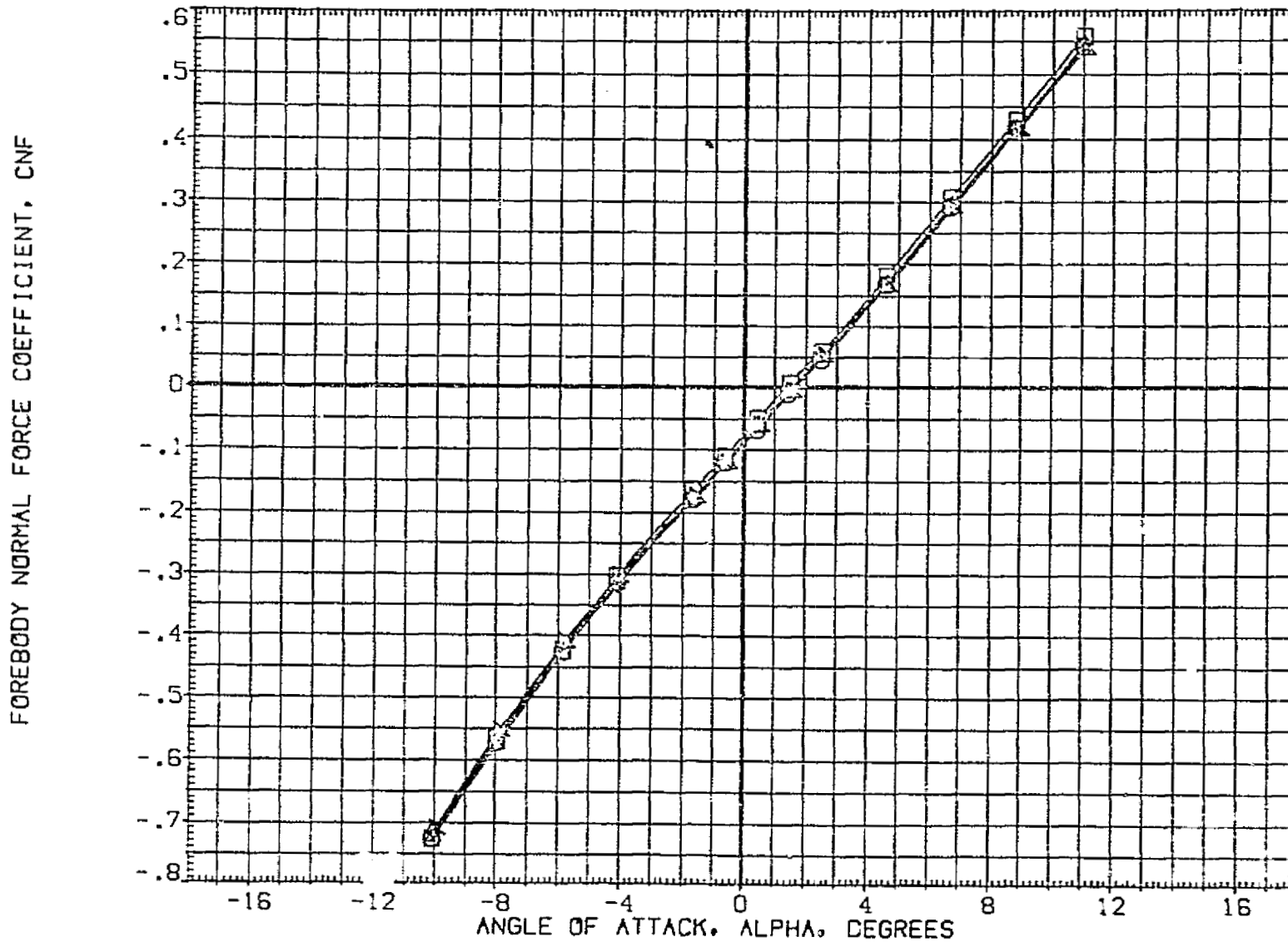


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(B-8011)	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ. FT.
(B-8010)	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S2	.000	LREF	1290.3000 INCHES
(B-8009)	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S3	.000	BREF	1290.3000 INCHES
(B-8008)	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S6	.000	XMRP	976.0000 IN. XT
(B-8003)	UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

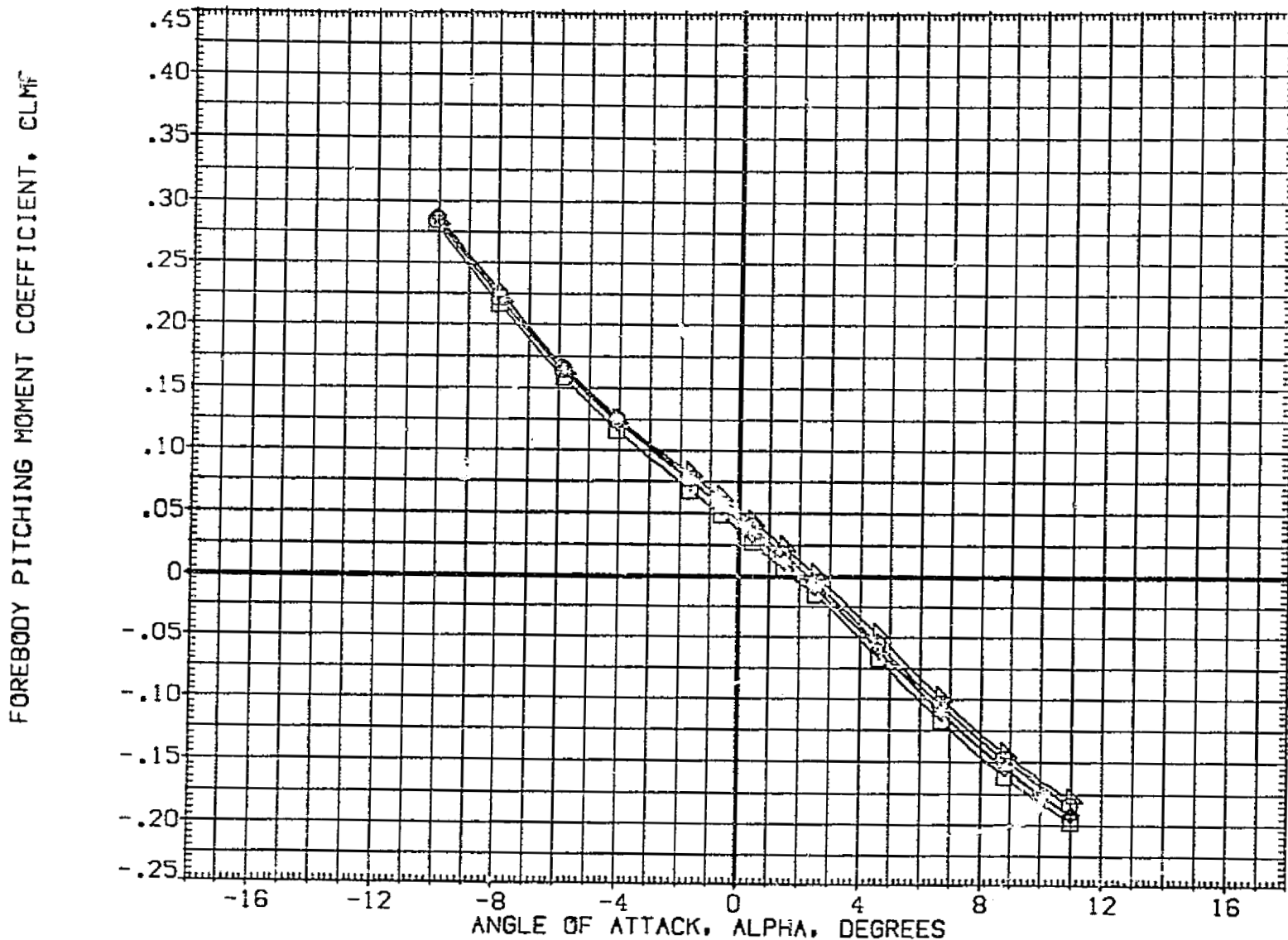


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8011)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000
(B-8010)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000
(B-8009)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S3	.000
(B-8008)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S6	.000
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

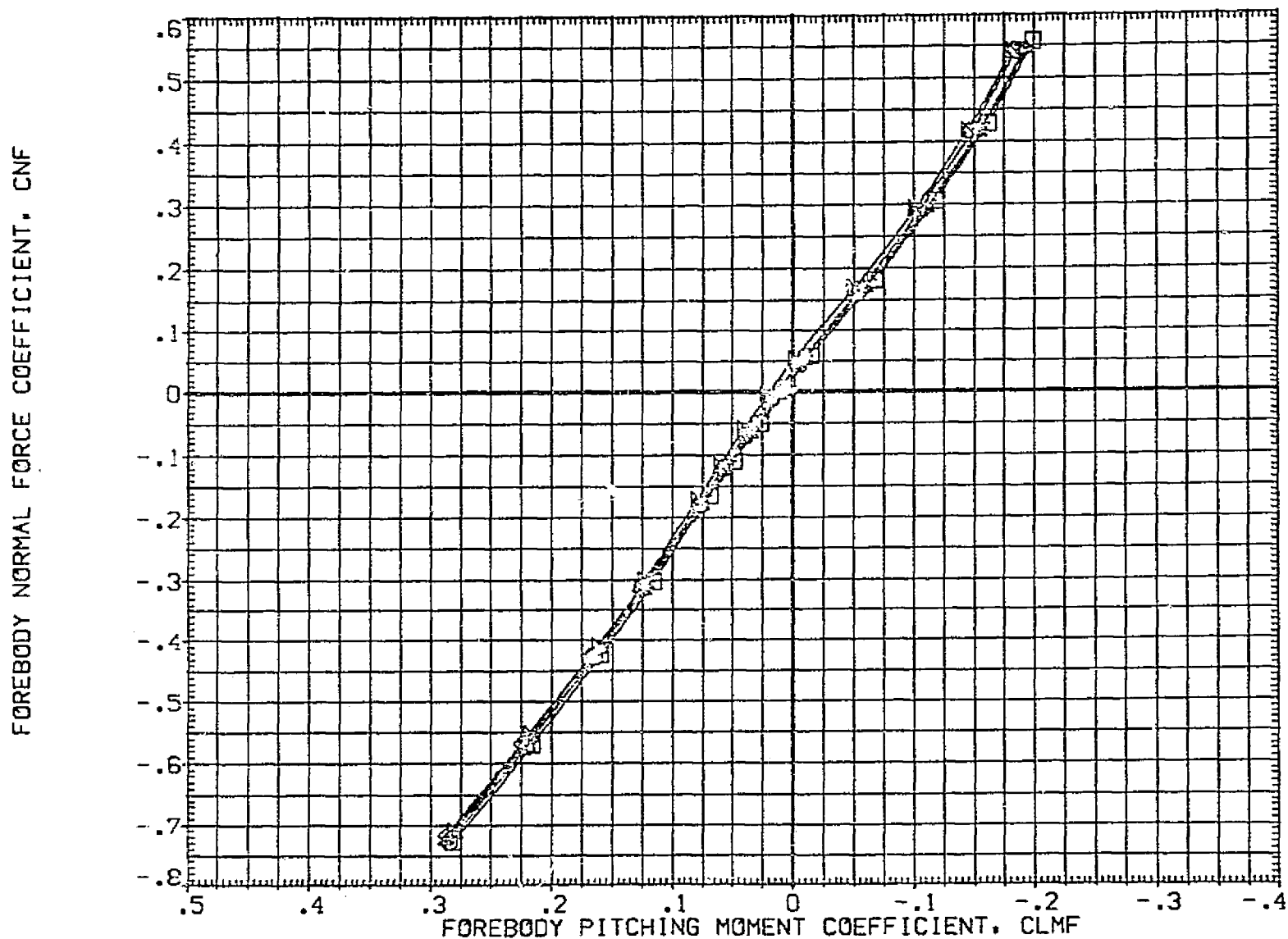


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(3)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
[9-8011]	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000
[9-8010]	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000
[9-8009]	DATA NOT AVAILABLE	.000
[9-8008]	DATA NOT AVAILABLE	.000
[9-8003]	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	NO. 65
BREF	1290.3000	4.65
XMRP	976.0000	N. XT
YMRP	.0000	N. YT
ZMRP	400.0000	N. ZT
SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

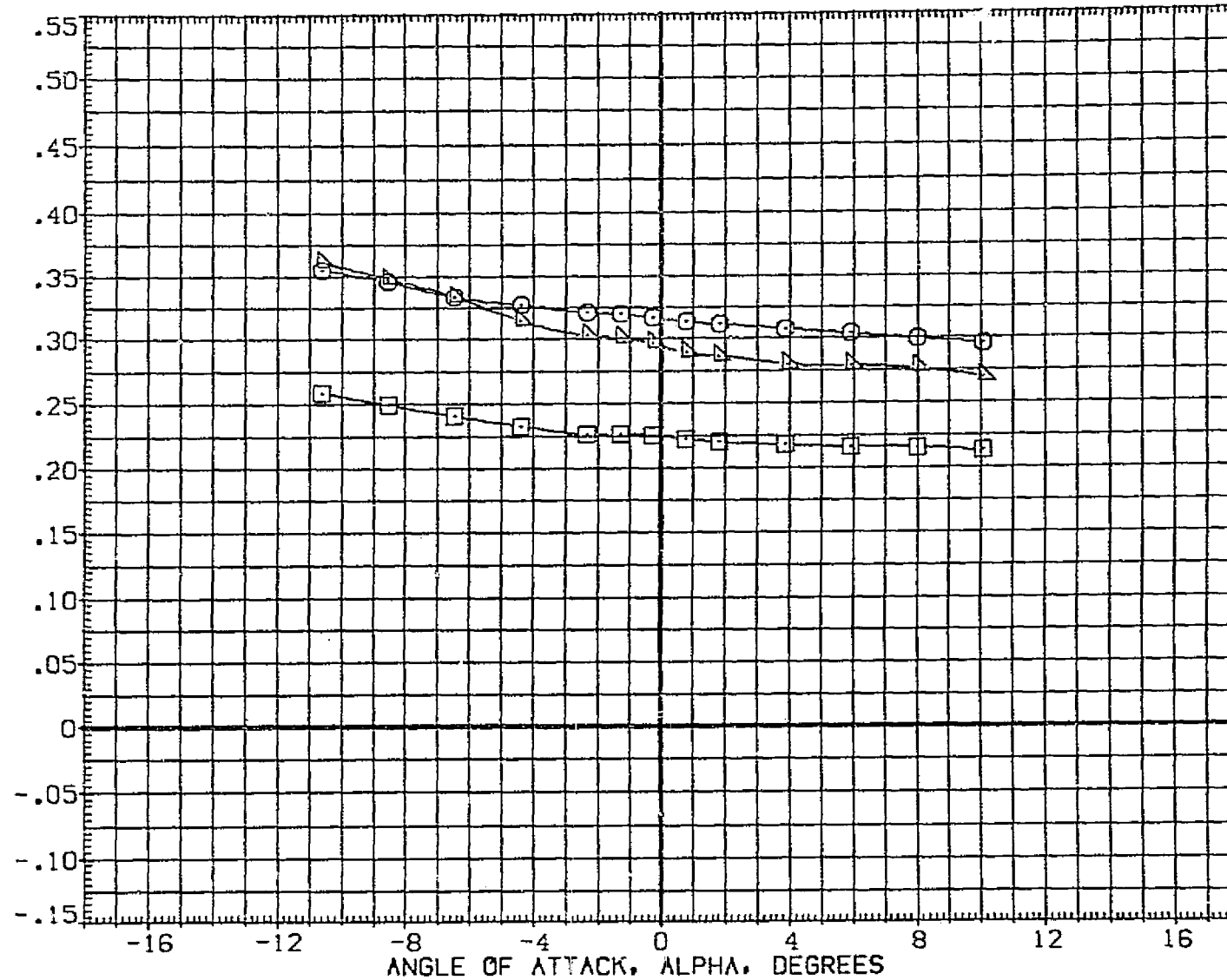


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
 (C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(9-8011)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ.FT.
(9-8010)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF	1290.3000 INCHES
(9-8009)	DATA NOT AVAILABLE	.000	BREF	1290.3000 INCHES
(9-8008)	DATA NOT AVAILABLE	.000	XMRP	976.0000 IN. XT
(9-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

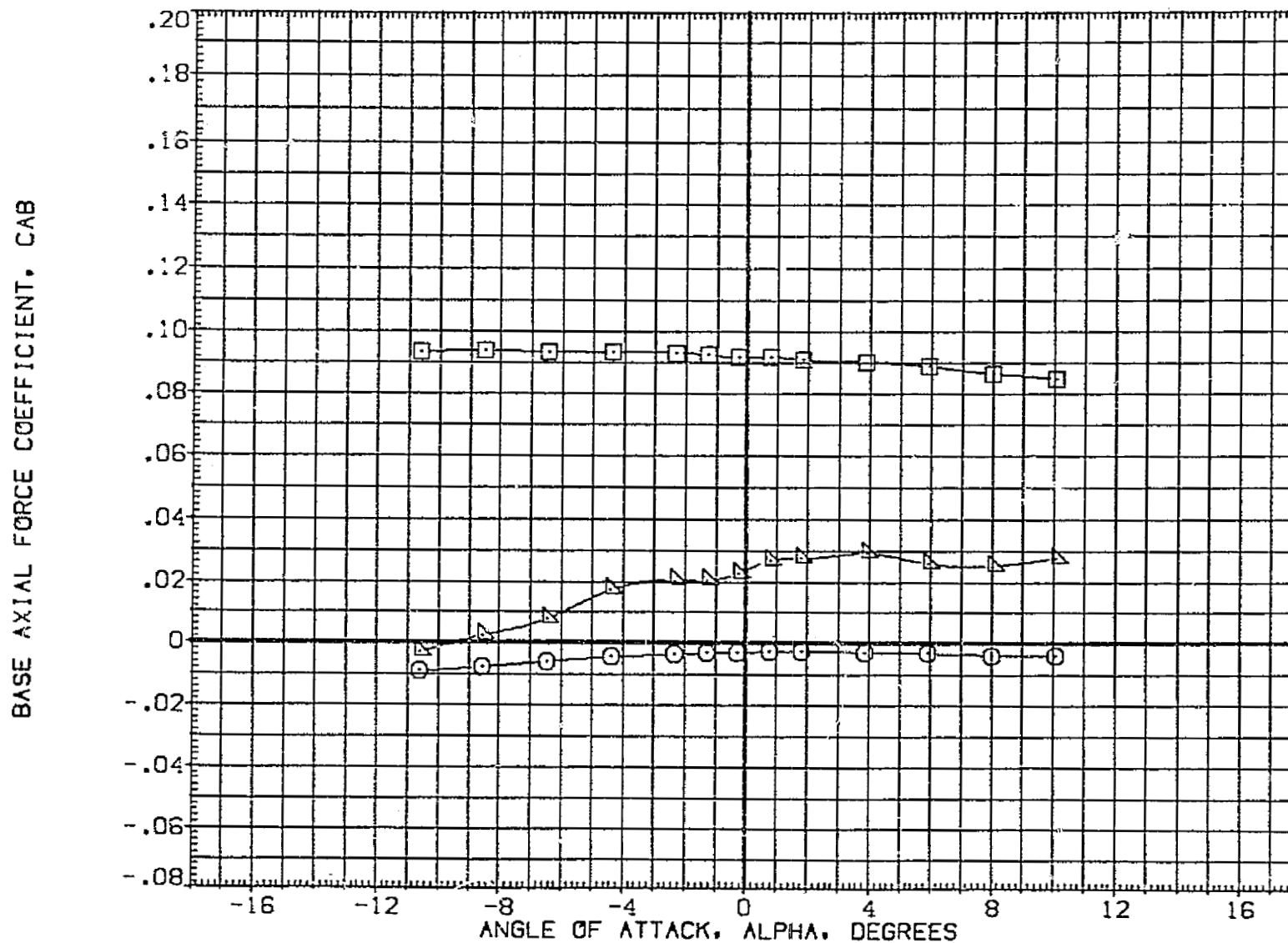


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(B-8011)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ. FT.
(B-8010)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S2	.000	LREF	1290.3000 INCHES
(B-8009)	DATA NOT AVAILABLE	.000	BREF	1290.3000 INCHES
(B-8008)	DATA NOT AVAILABLE	.000	XMRP	976.0000 IN. YT
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

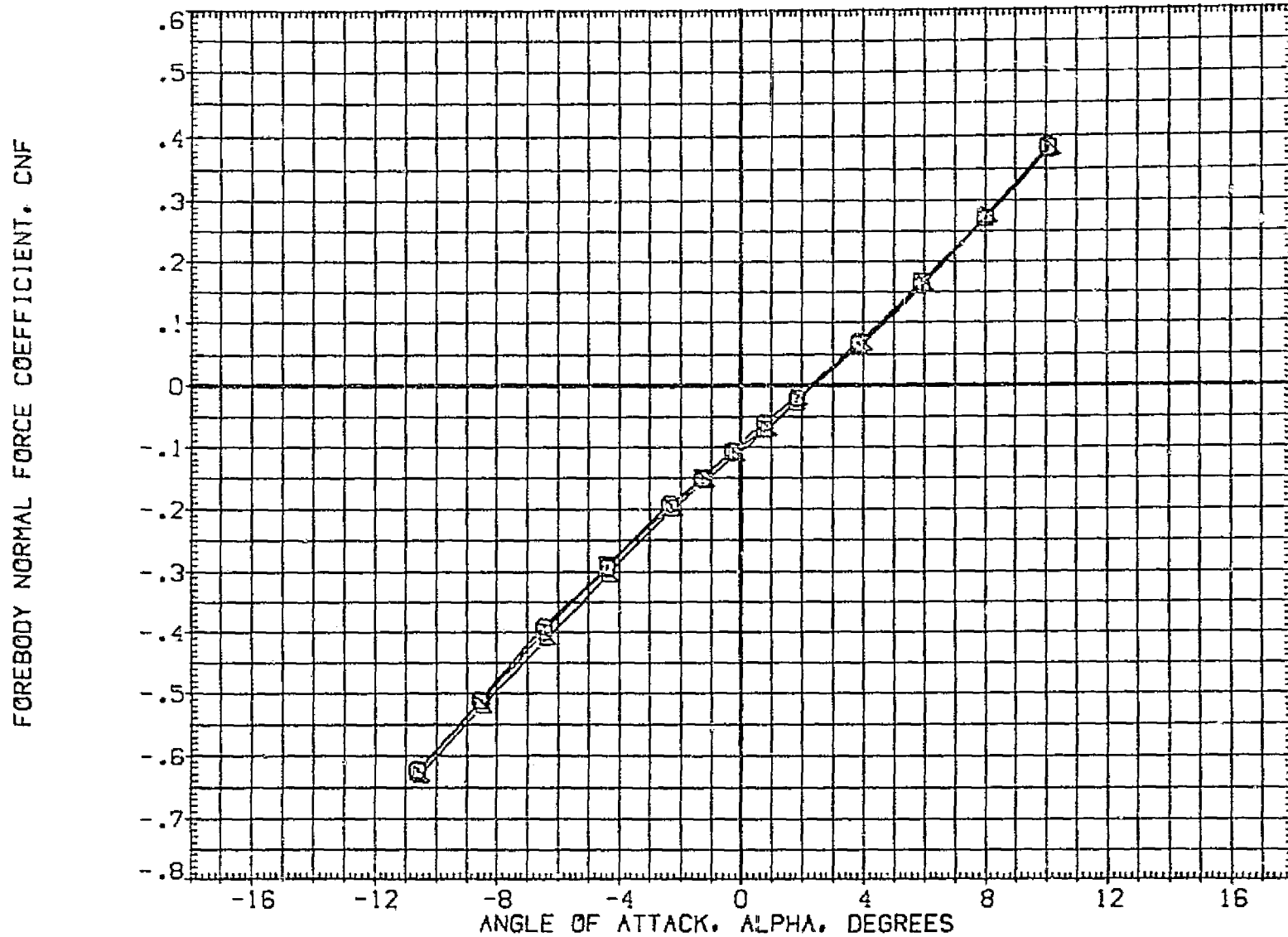


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(9-8011)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000
(9-8010)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S2	.000
(9-8009)	DATA NOT AVAILABLE	.000
(9-8008)	DATA NOT AVAILABLE	.000
(9-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

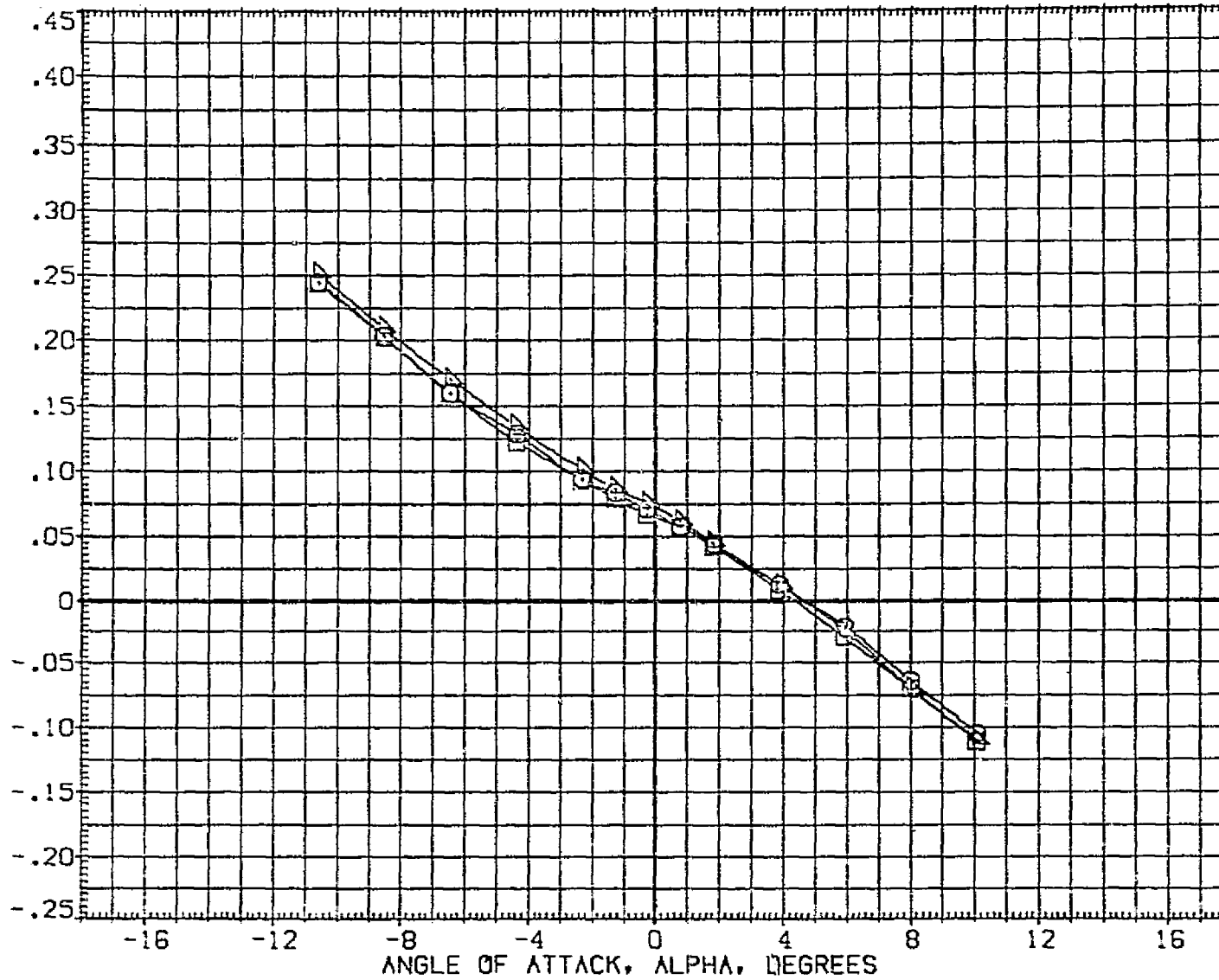


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
 (C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8011)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000
(B-8010)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S2	.000
(B-8009)	DATA NOT AVAILABLE	.000
(B-8008)	DATA NOT AVAILABLE	.000
(B-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2680.0000	50. FT.
LREF	1290.3000	100. FT.
BREF	1290.3000	100. FT.
XPR0	976.0000	100. FT.
YMR0	.0000	100. FT.
ZMR0	400.0000	100. FT.
SCALE	.0100	

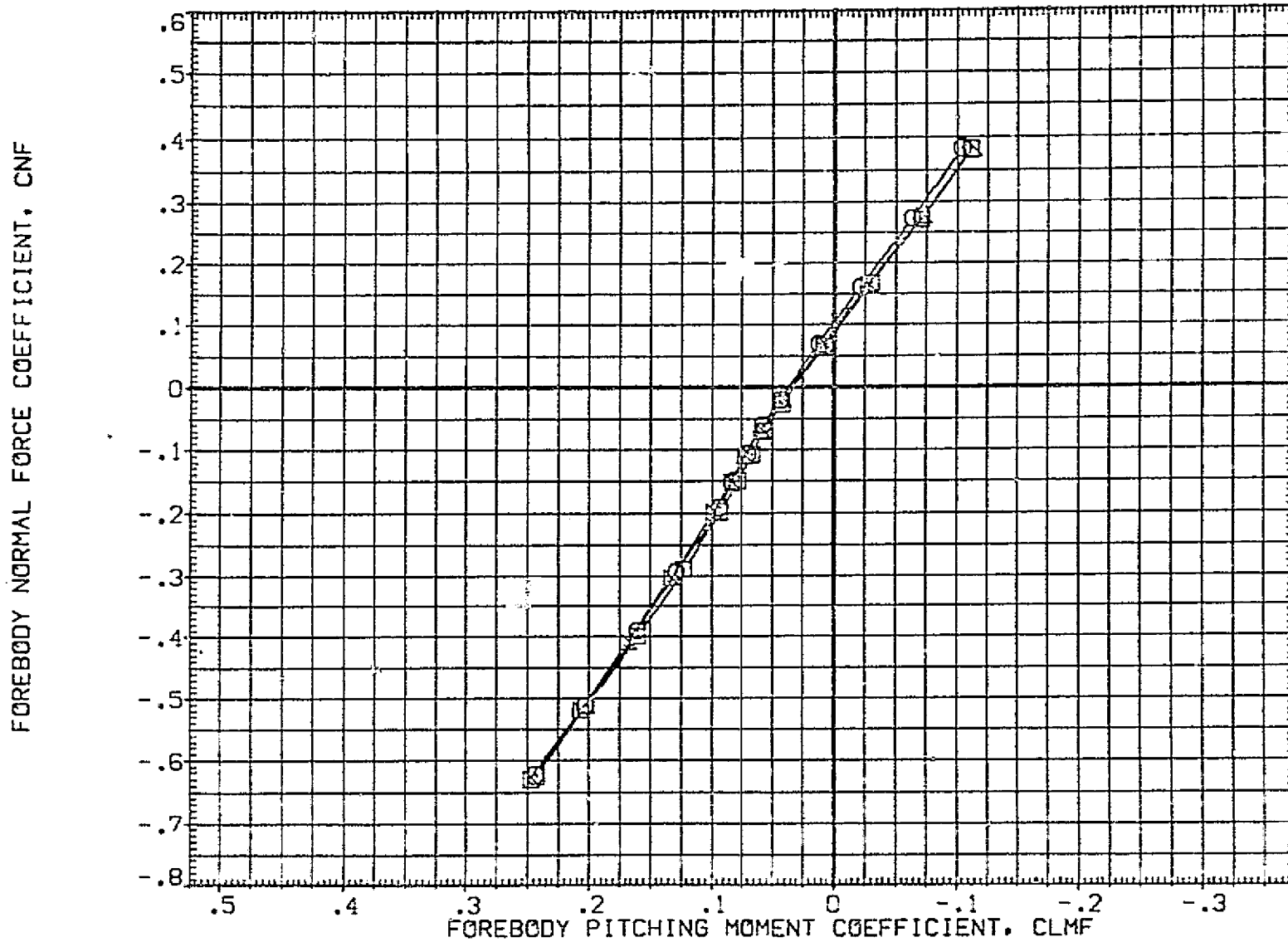


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(9-8011)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ.FT.
(9-8010)	DATA NOT AVAILABLE	.000	LREF	1290.3000 INCHES
(9-8009)	DATA NOT AVAILABLE	.000	BREF	1290.3000 INCHES
(9-8008)	DATA NOT AVAILABLE	.000	XREF	975.0000 IN. XT
(9-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	YREF	.0000 IN. YT
			ZREF	400.0000 IN. ZT
			SCALE	.0100

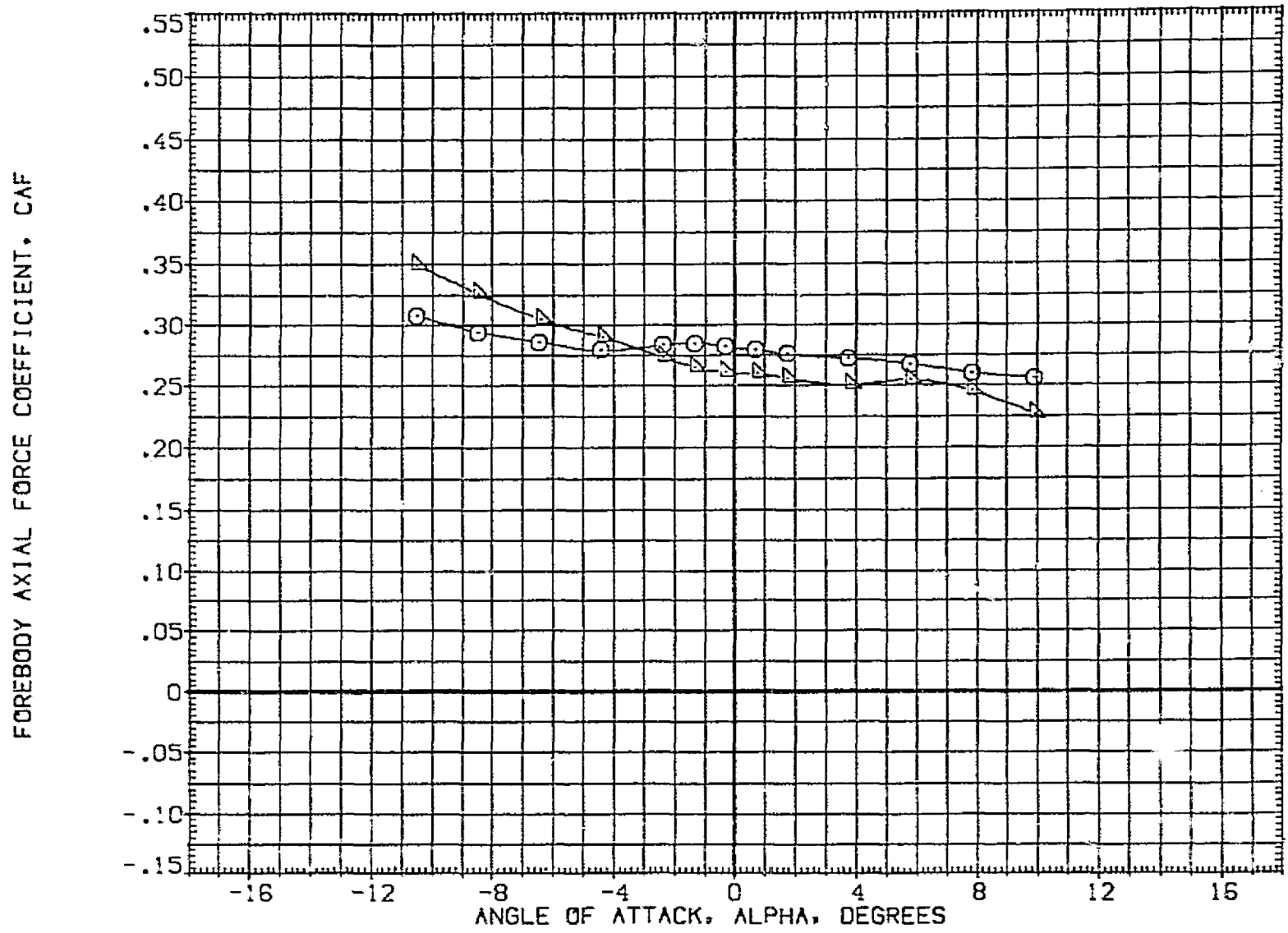


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
[8-8011]	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ. FT.
[8-8010]	DATA NOT AVAILABLE	.000	LREF	1790.3000 IN. DIA.
[8-8009]	DATA NOT AVAILABLE	.000	BREF	1790.3000 IN. DIA.
[8-8008]	DATA NOT AVAILABLE	.000	XREF	976.0000 IN. XT
[8-8003]	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YREF	.0000 IN. YT
			ZREF	400.0000 IN. ZT
			SCALE	.0100

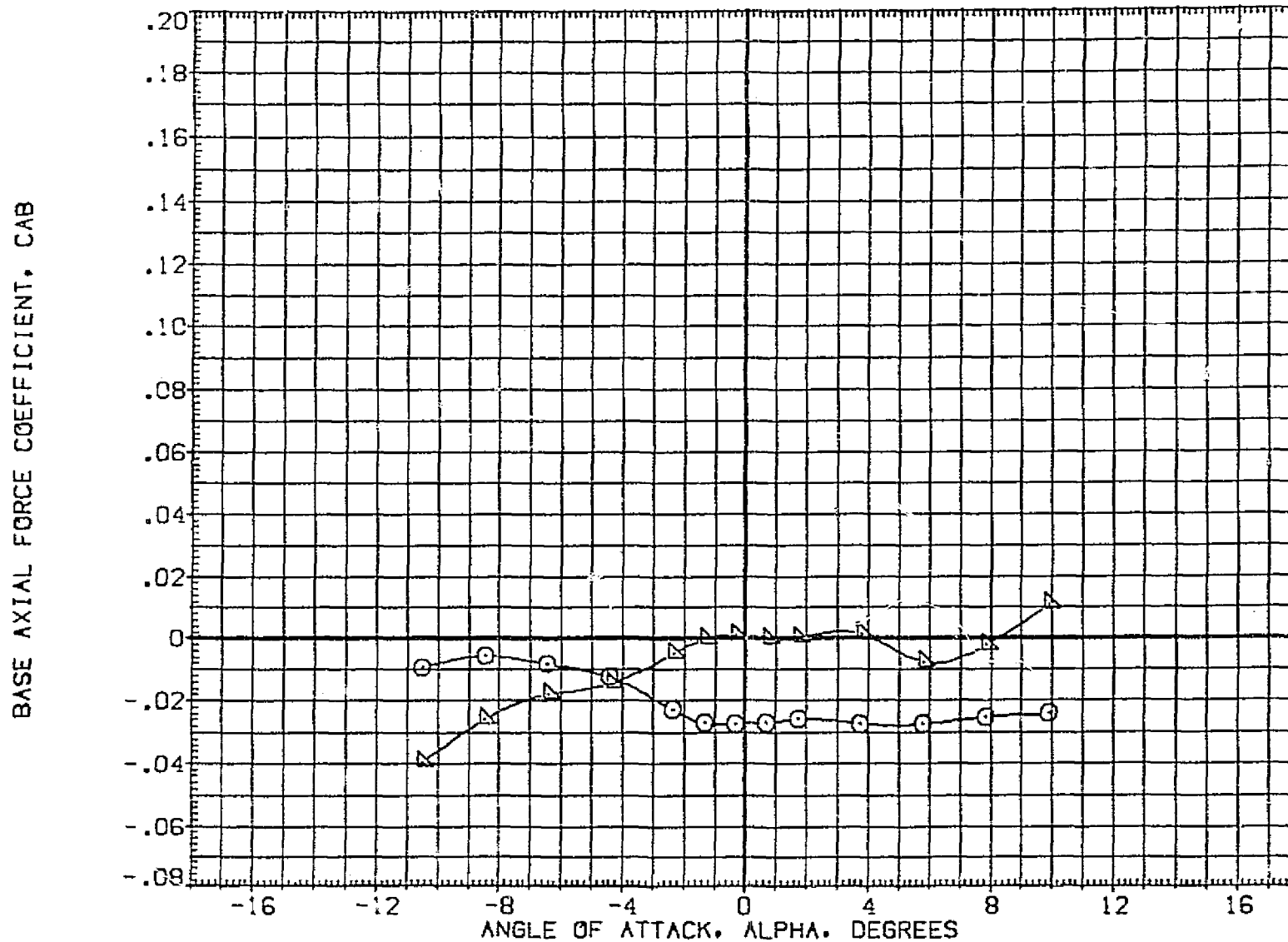


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION	
(B-8011)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000	SREF	2690.0000 SQ.FT.
(B-8010)	DATA NOT AVAILABLE	.000	LREF	1290.3000 IN. ES
(B-8009)	DATA NOT AVAILABLE	.000	BREF	1290.3000 IN. ES
(B-8008)	DATA NOT AVAILABLE	.000	XMRP	975.0000 IN. XT
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	YMRP	.0000 IN. YT
			ZMRP	400.0000 IN. ZT
			SCALE	.0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

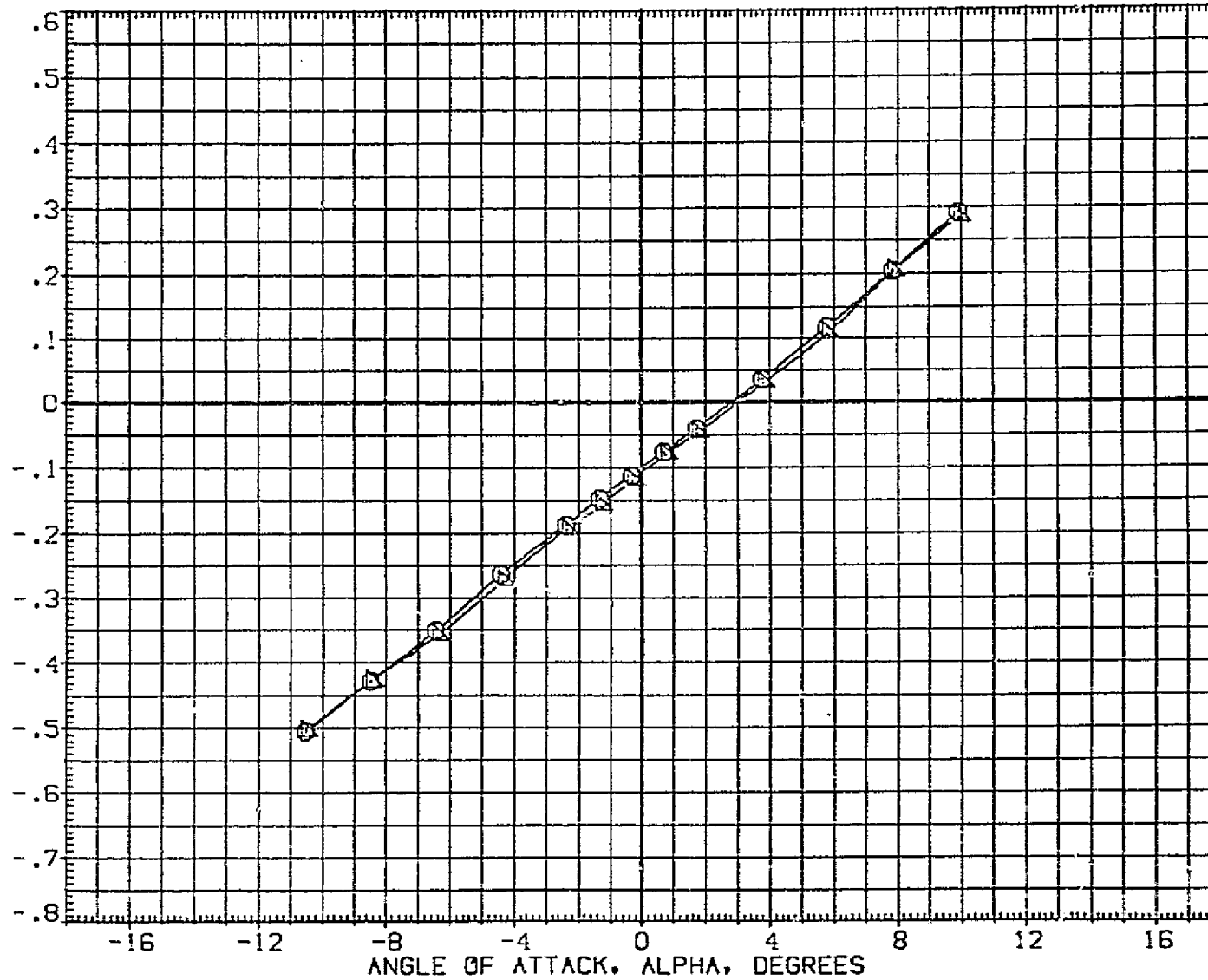


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8011)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000
(B-8010)	DATA NOT AVAILABLE	.000
(B-8009)	DATA NOT AVAILABLE	.000
(B-8008)	DATA NOT AVAILABLE	.000
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	59. FT.
LREF	1290.3000	29.5 FT.
BREF	1290.3000	29.5 FT.
XRSP	976.0000	27.2 FT.
YRSP	.0000	0.0 FT.
ZRSP	400.0000	12.1 FT.
SCALE	.0100	

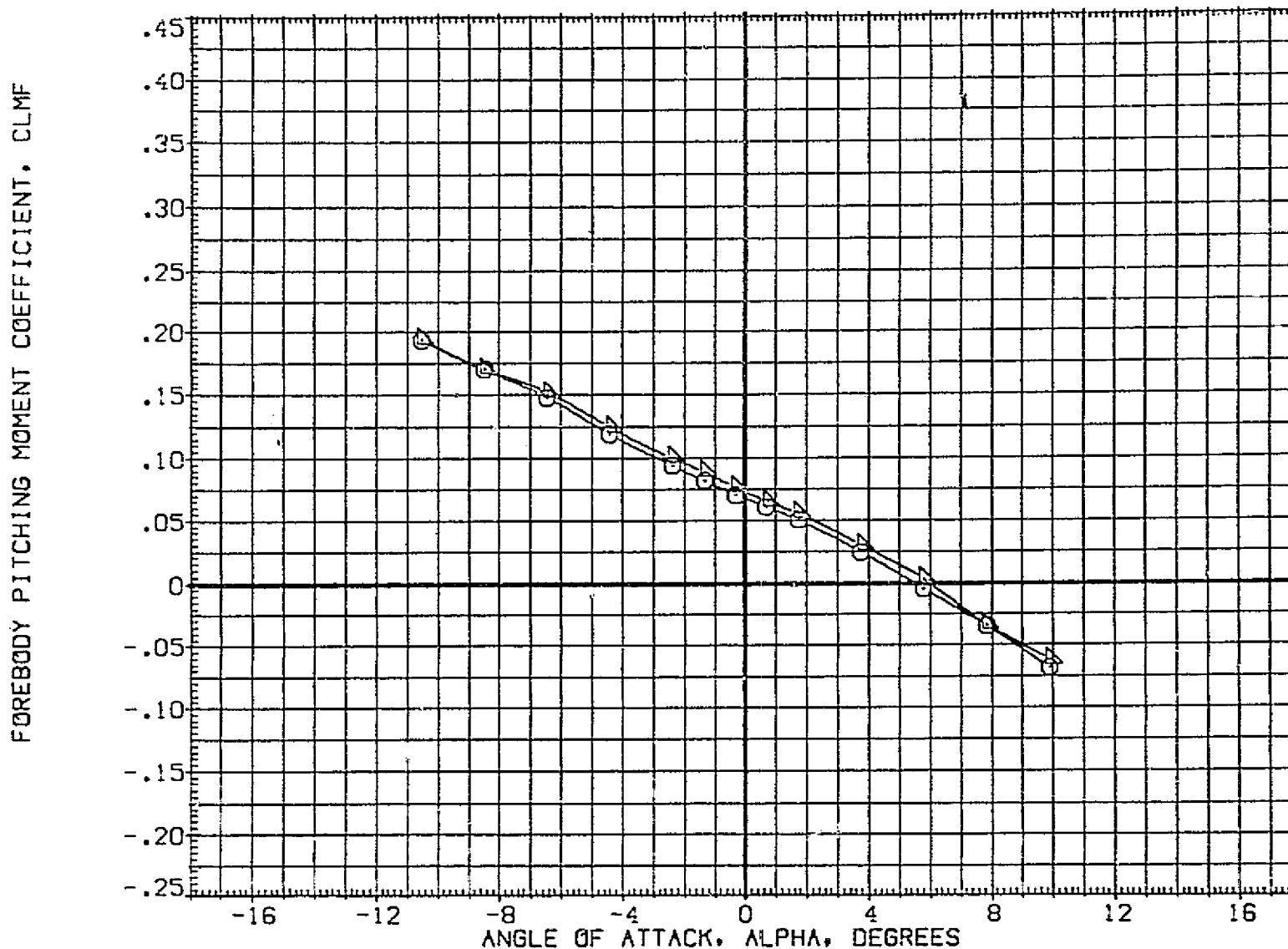


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF 2690.0000 SQ. FT.
(B-8010)	DATA NOT AVAILABLE	.000	LREF 1290.3000 INCHES
(B-8009)	DATA NOT AVAILABLE	.000	BREF 1290.3000 INCHES
(B-8008)	DATA NOT AVAILABLE	.000	XMRP 976.0000 IN. XT
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

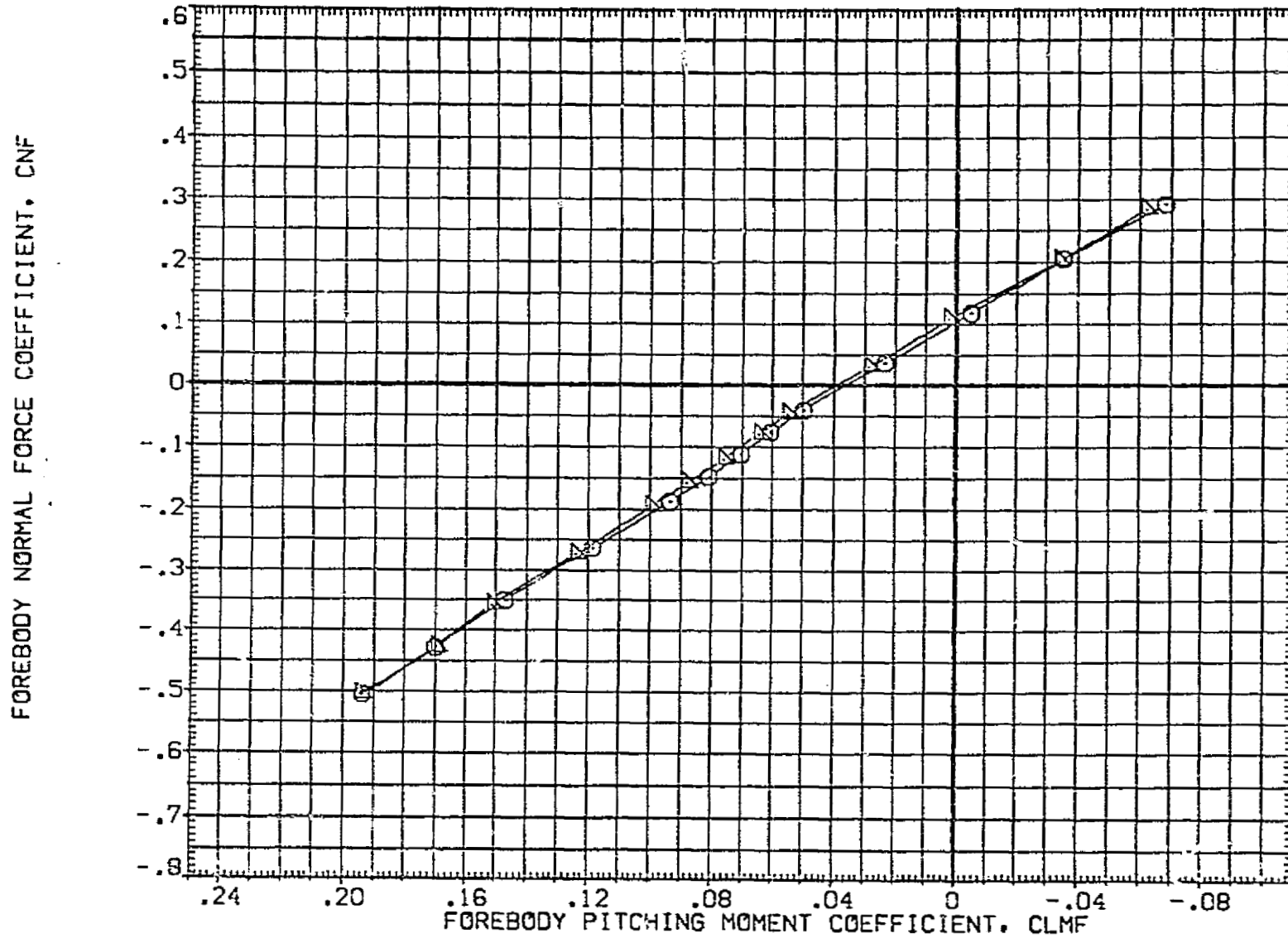


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION		
(B-8011)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1	.000	SRWF	2680.0000	89.0000
(B-8010)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S2	.000	SLRWF	1280.0000	44.5000
(B-8009)	DATA NOT AVAILABLE	.000	SRWF	1280.0000	44.5000
(B-8008)	DATA NOT AVAILABLE	.000	SLRWF	576.0000	22.2500
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	YRWF	1000.0000	44.5000
			ZRWF	400.0000	22.2500
			SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

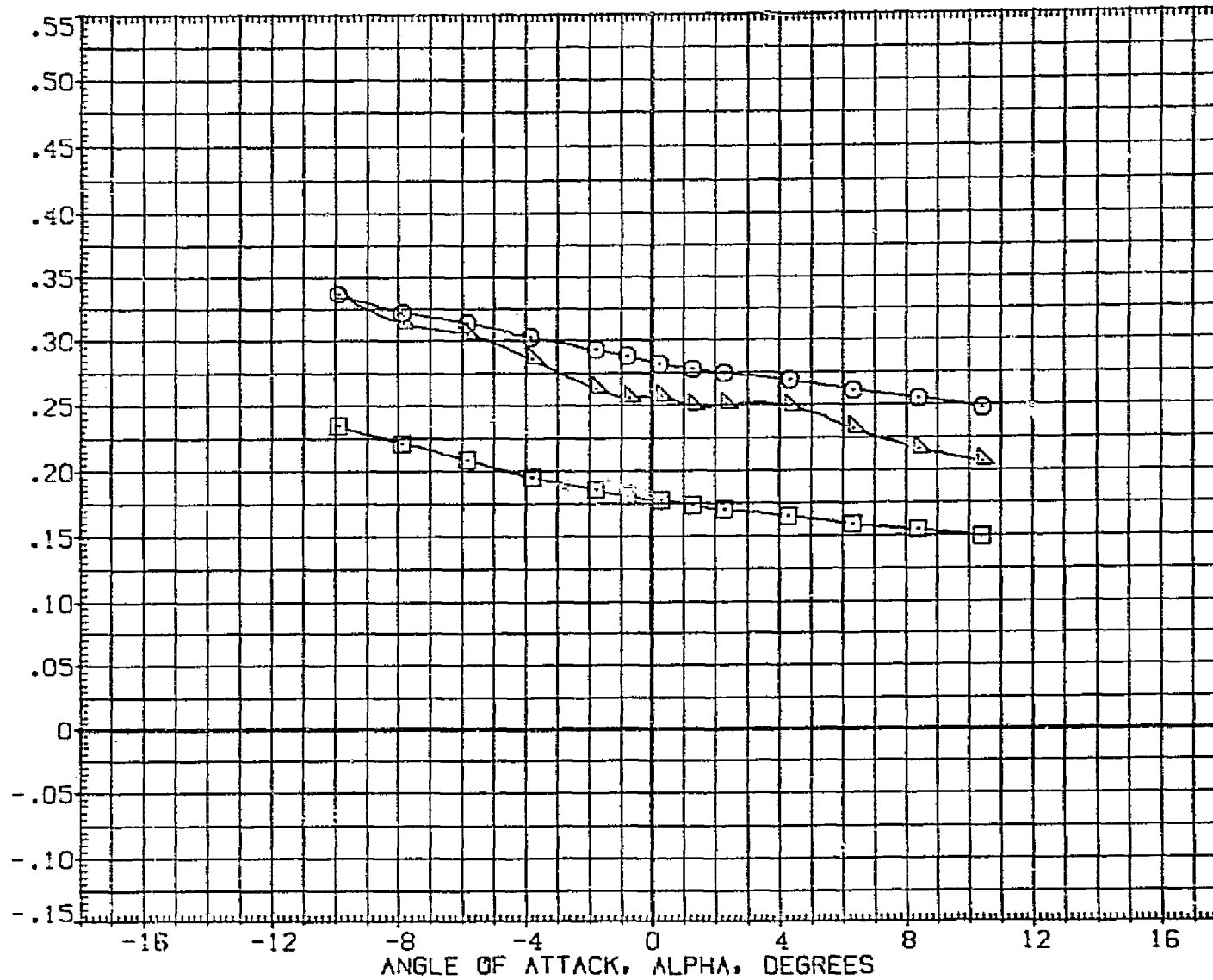


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF 2690.0000 SQ. FT.
(B-8010)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF 1290.3000 INCHES
(B-8009)	DATA NOT AVAILABLE	.000	BREF 1290.3000 INCHES
(B-8008)	DATA NOT AVAILABLE	.000	XMRP 976.0000 IN. XT
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

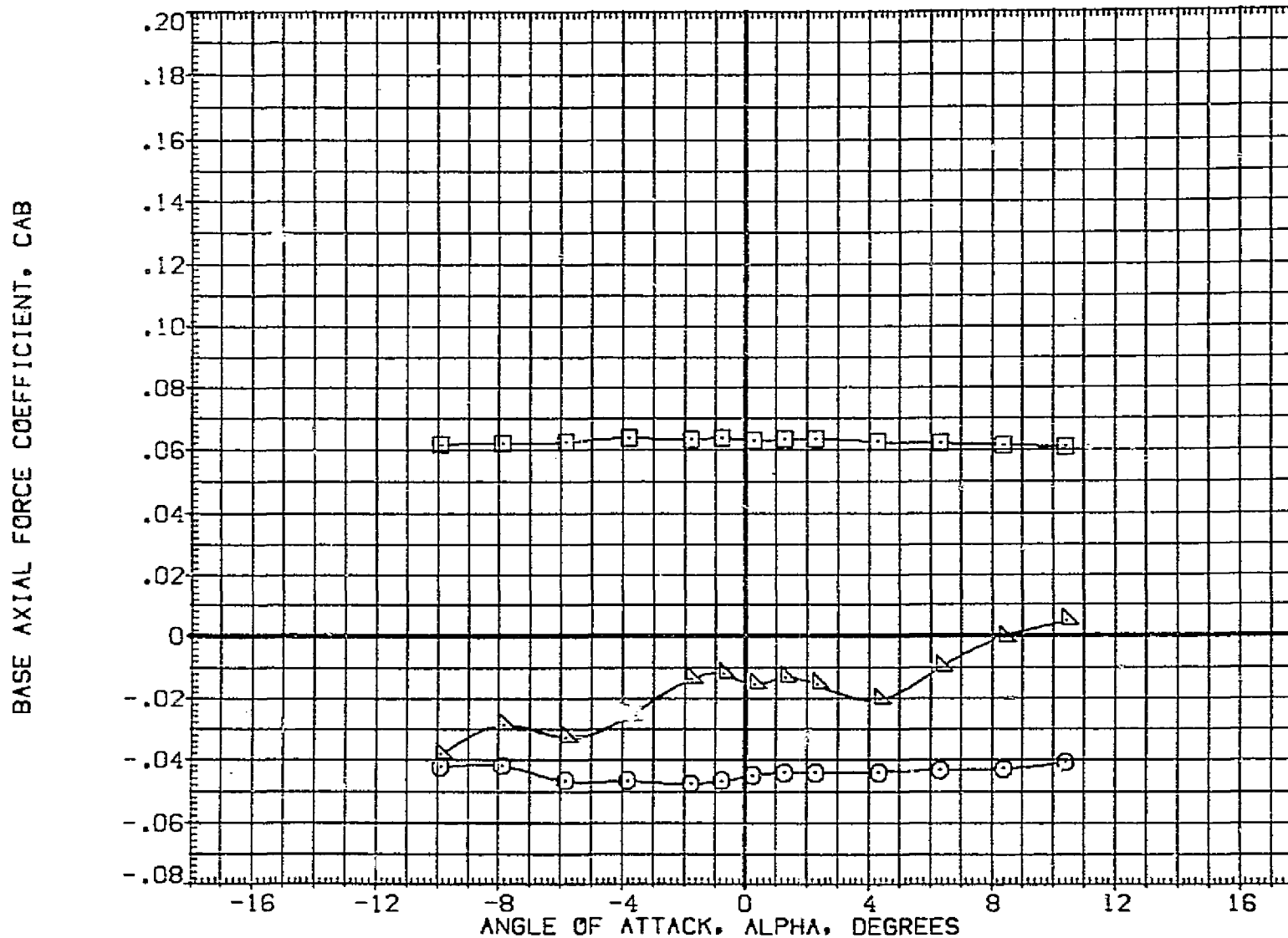


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
 (E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8011)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000
(B-8010)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000
(B-8009)	DATA NOT AVAILABLE	.000
(B-8008)	DATA NOT AVAILABLE	.000
(B-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY NORMAL FORCE COEFFICIENT, CNF

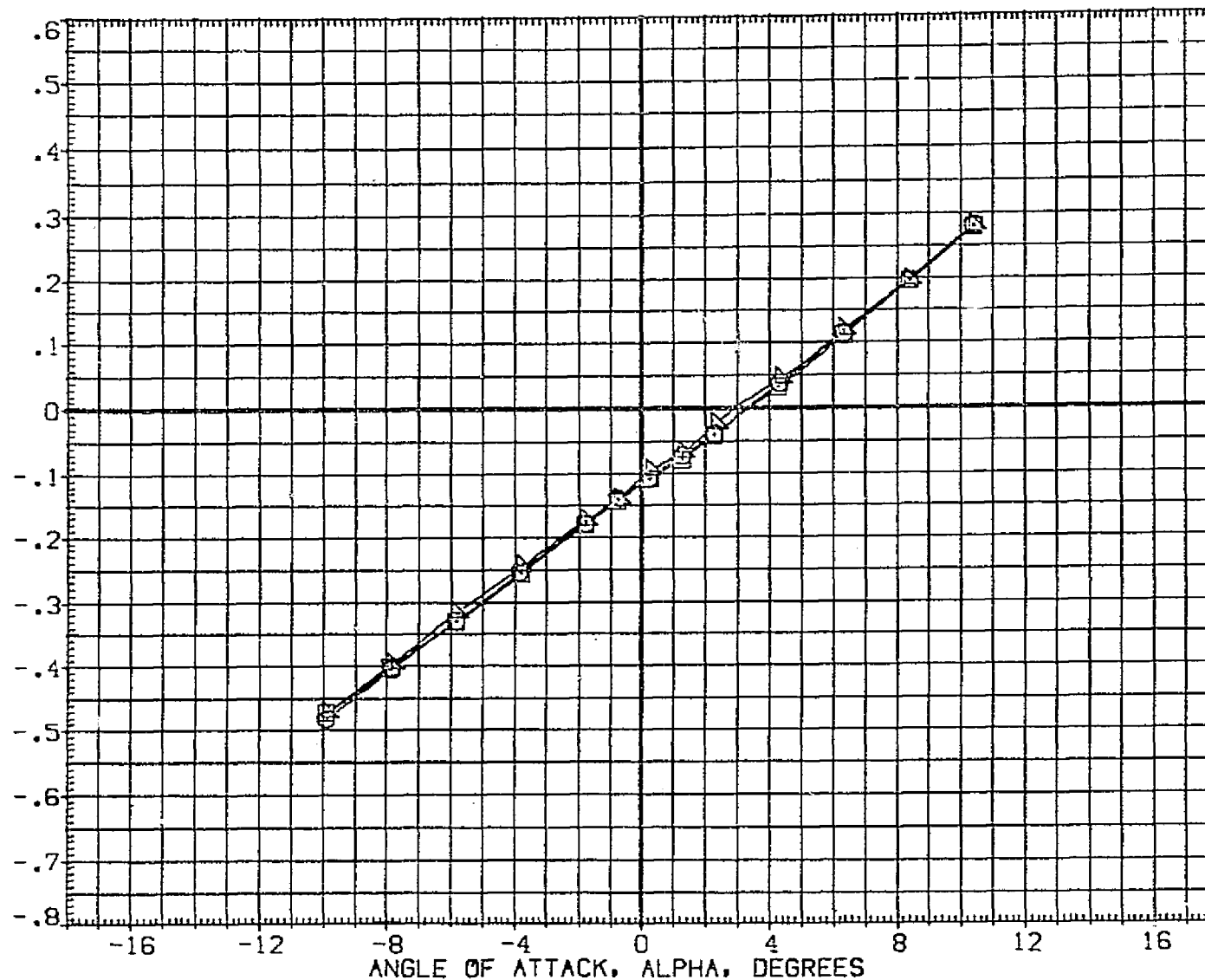


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S1	.000	SREF 2690.0000 SQ. FT.
(B-8010)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S2	.000	LREF 1290.3000 INCHES
(B-8009)	DATA NOT AVAILABLE	.000	BREF 1290.3000 INCHES
(B-8008)	DATA NOT AVAILABLE	.000	XMRP 976.0000 IN. XT
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	YMRP .0000 IN. YT
			ZMRP 400.0000 IN. ZT
			SCALE .0100

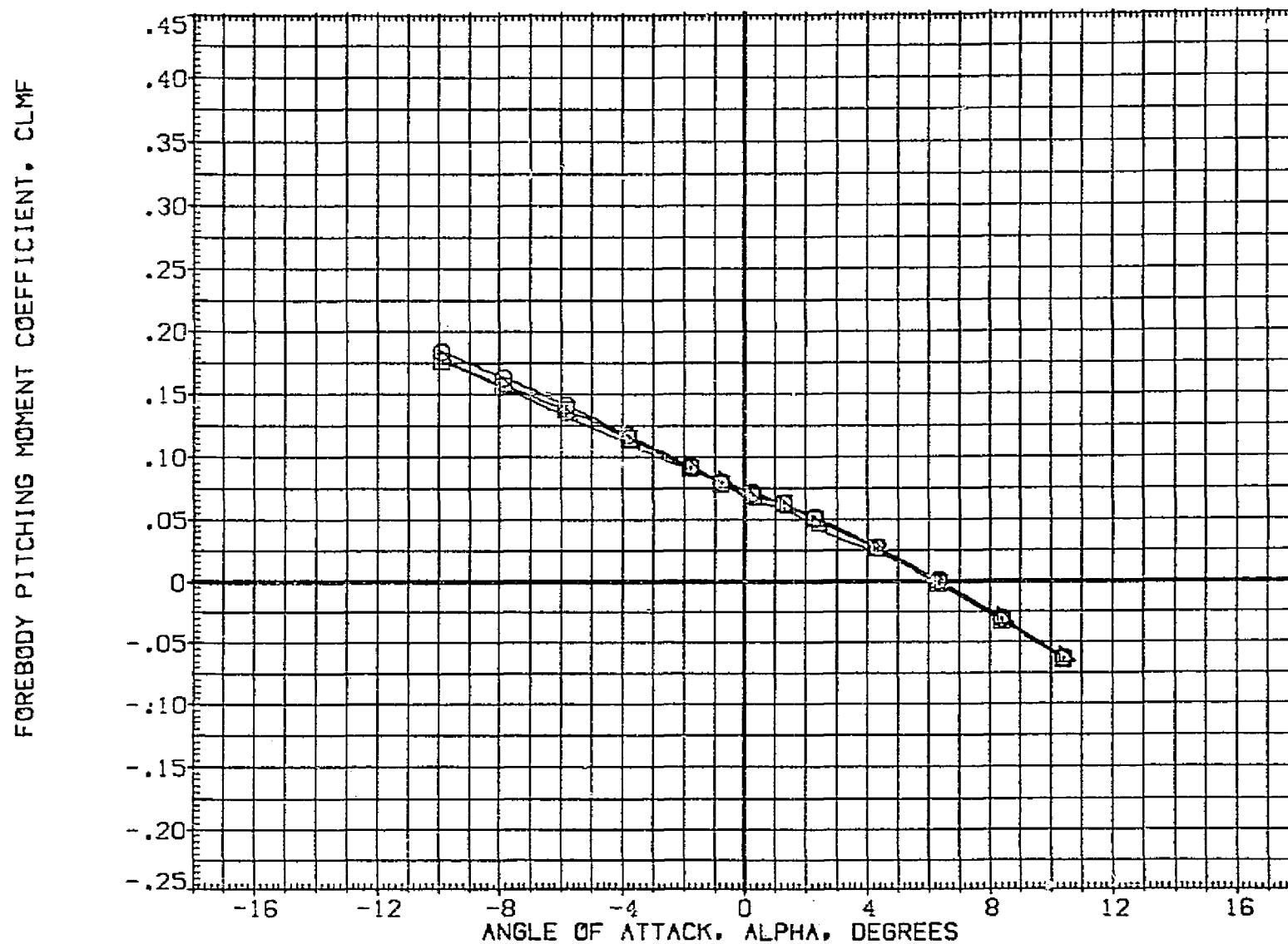


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	REFERENCE INFORMATION
(B-8011)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S1	.000
(B-8010)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S2	.000
(B-8009)	DATA NOT AVAILABLE		.000
(B-8008)	DATA NOT AVAILABLE		.000
(B-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7	.000

REFERENCE INFORMATION	VALUE	UNIT
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

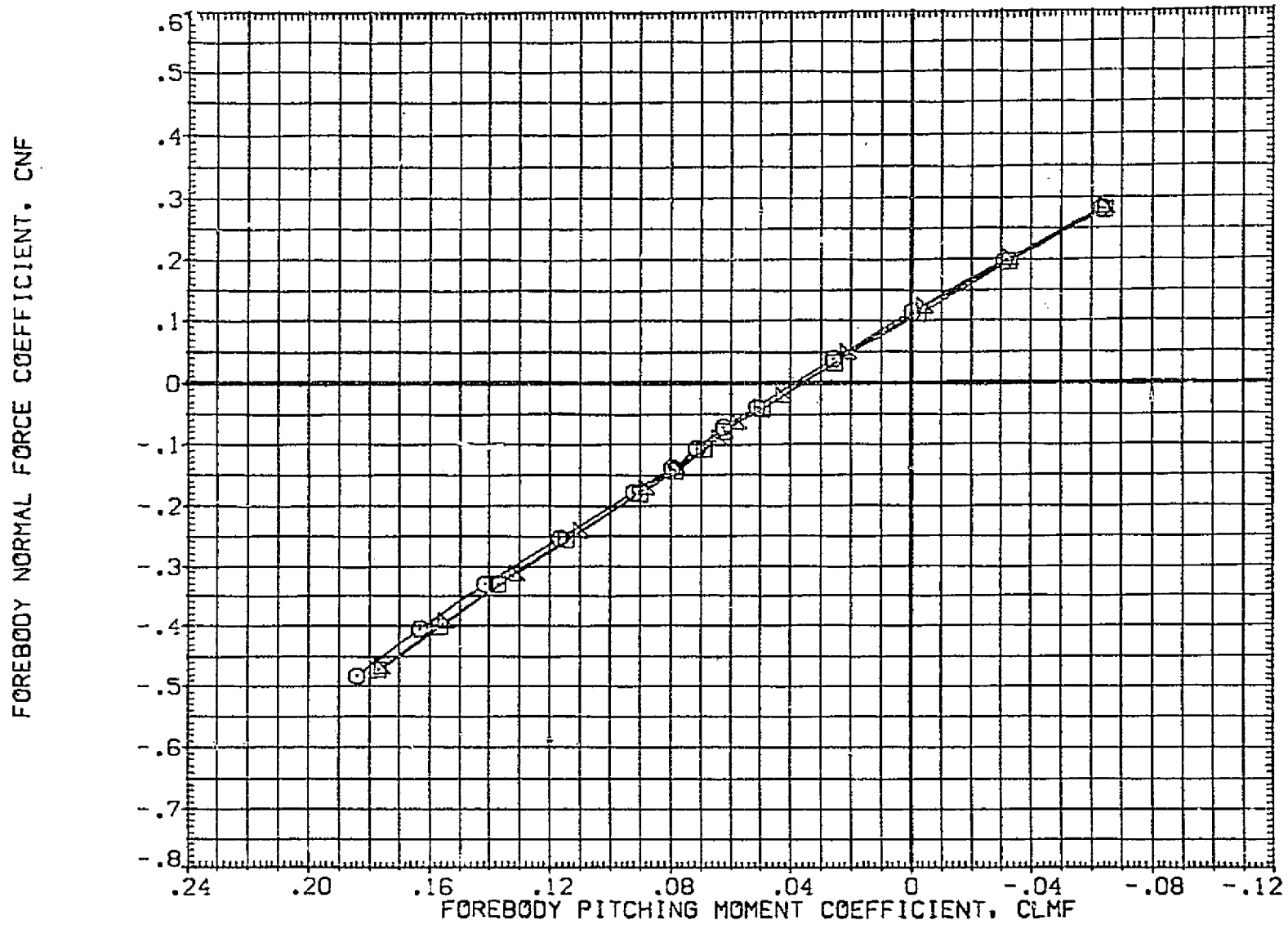


FIGURE 8 EFFECT OF SRB DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
(M)MACH = 4.60 PAGE 140

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	Q UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000
(B-8007)	□ UPVT 1088/1119 (IA-44) CONFIGURATION 02/T2/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

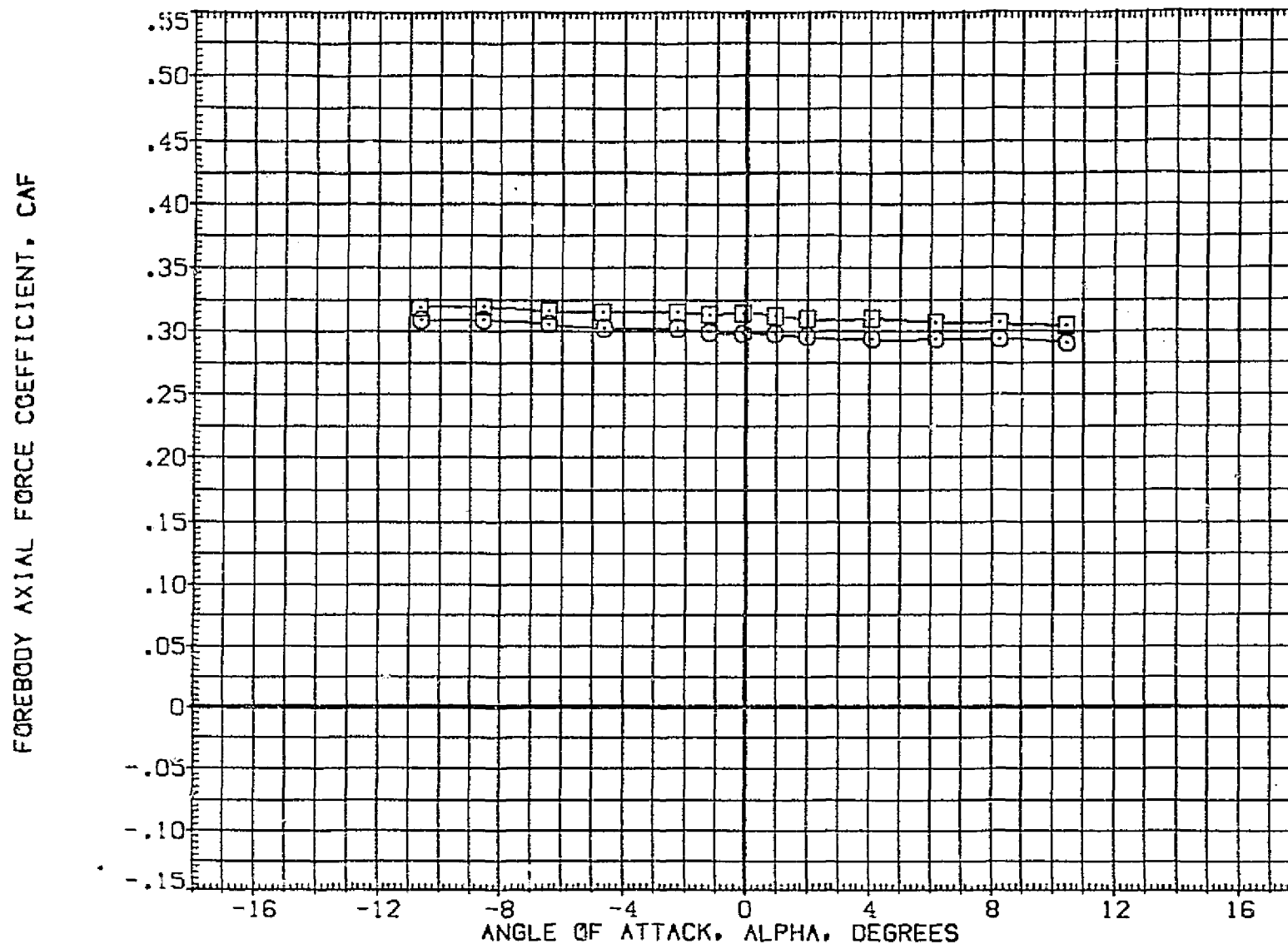


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(8-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T4/S7 .000
(9-8007) □	LPVT 1088/1119 (1A-44) CONFIGURATION	02/T2/S7 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

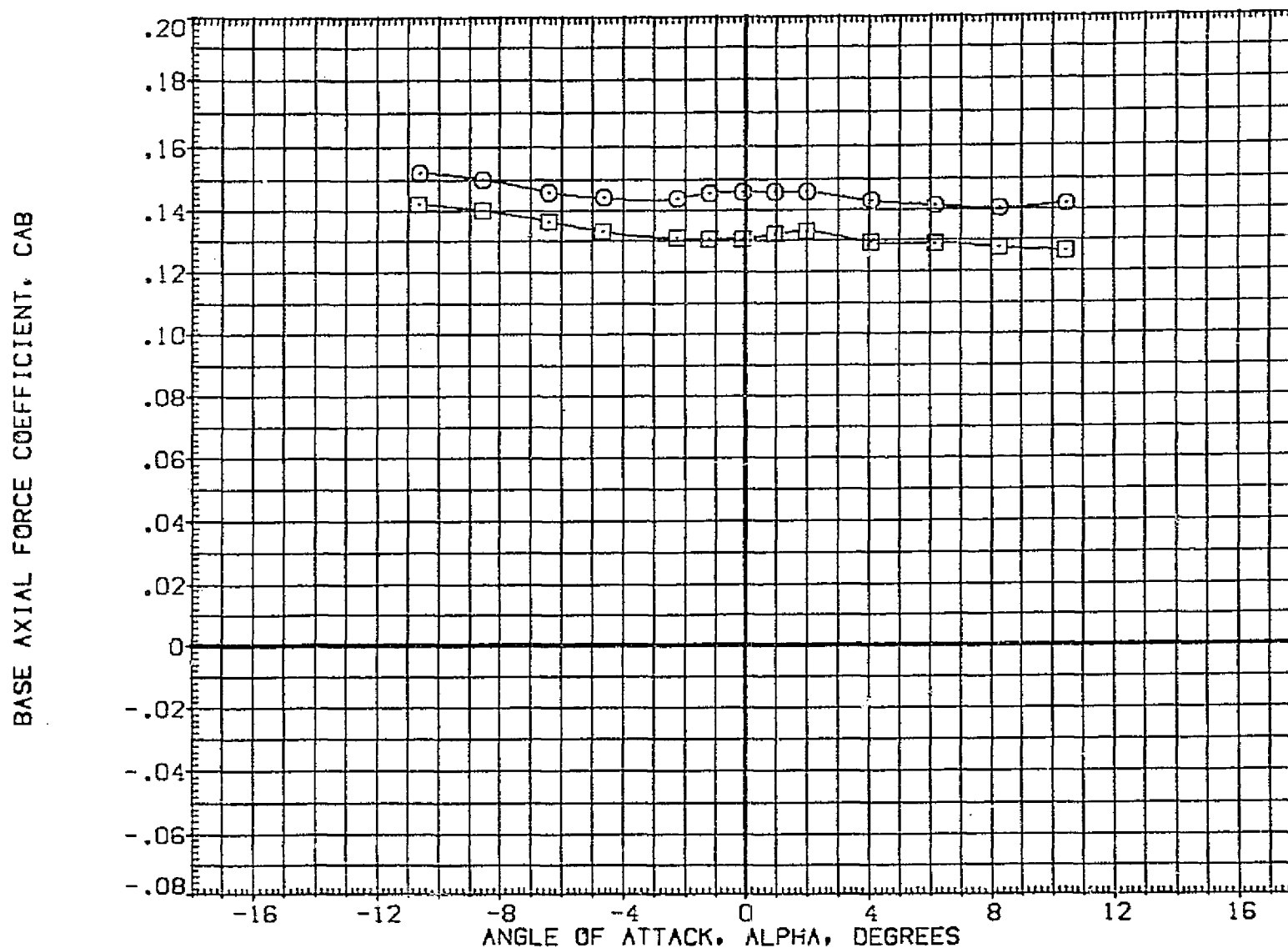


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/14/57	.000
(B-8007) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/12/57	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

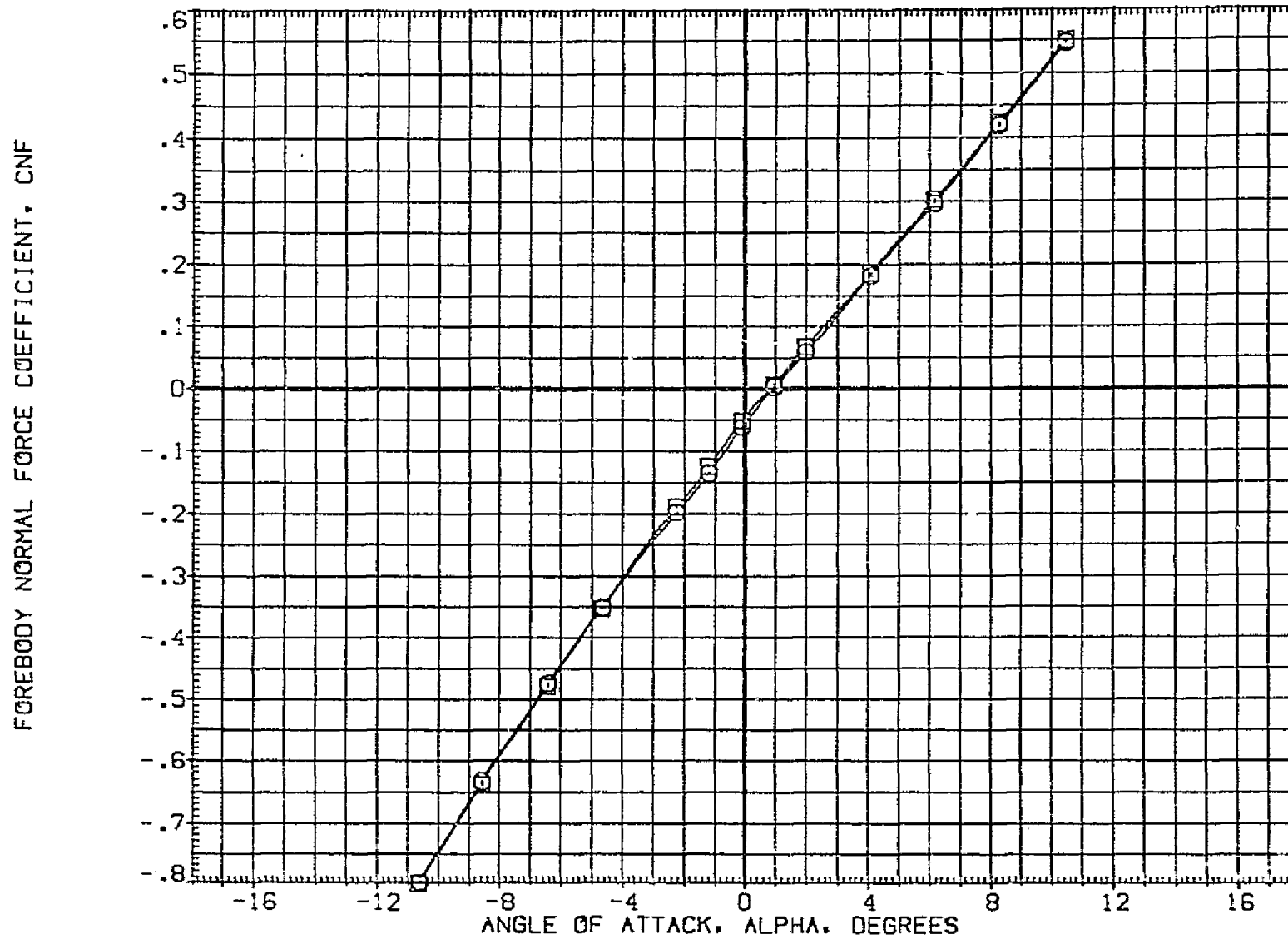


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
 (A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	□ UPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8007)	— UPVT 1088/1119 (IA-44) CONFIGURATION	02/T2/S7 .000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

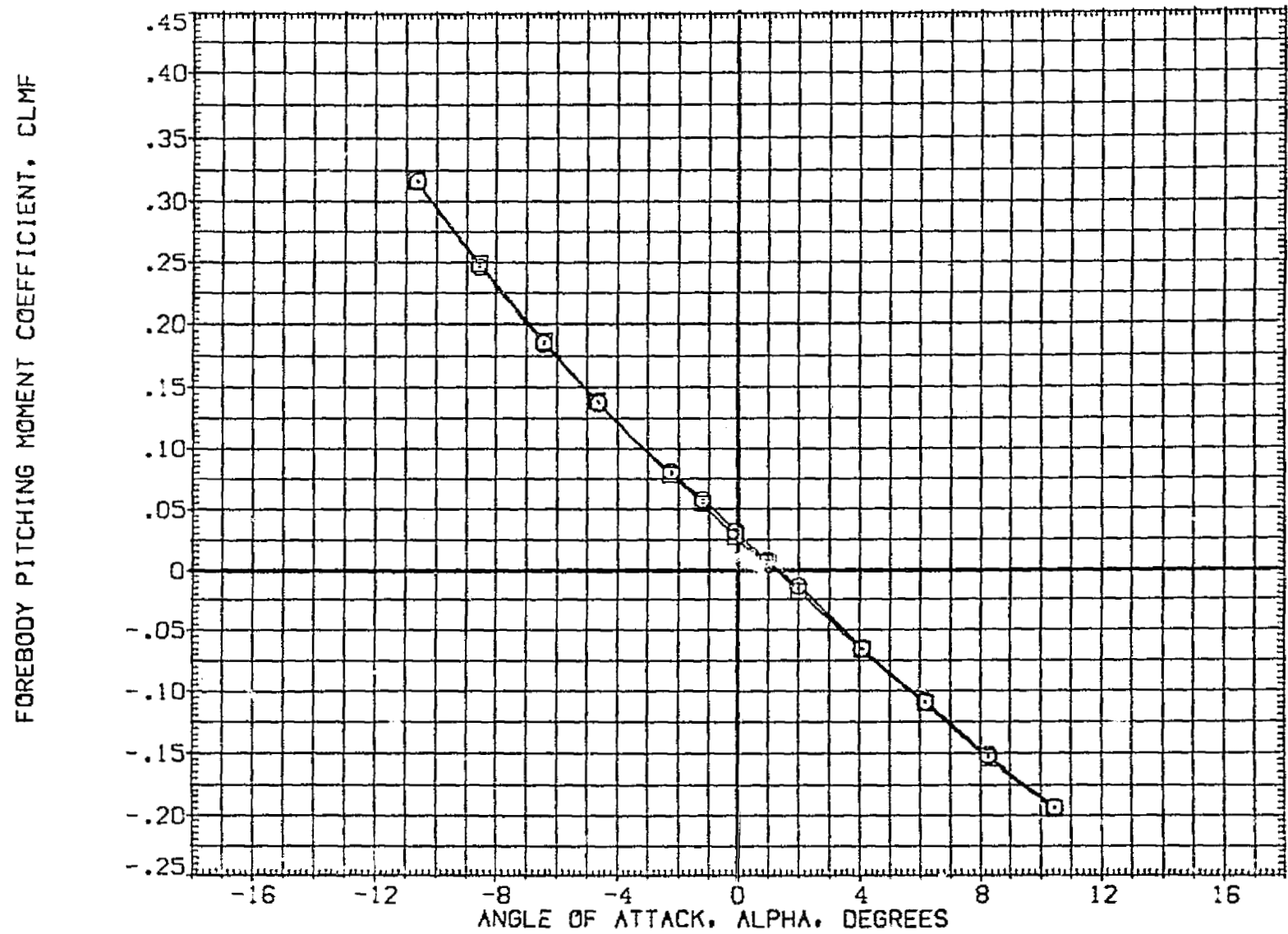


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8037) □	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T2/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

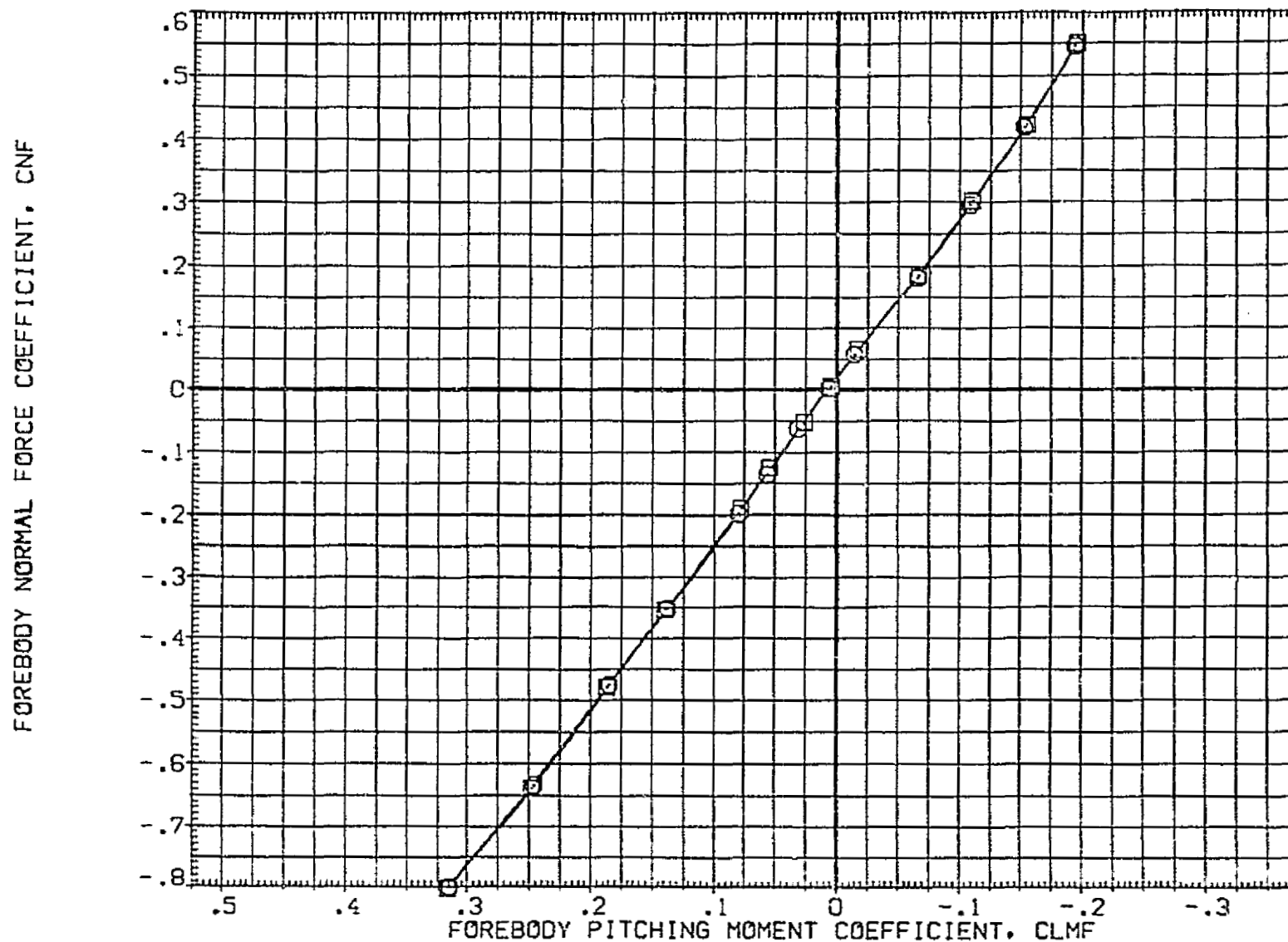


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(A) $MACH = 1.60$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	UPVT 1088/1119 (JA-44) CONFIGURATION	02/T4/S7 .000
(B-8007)	UPVT 1088/1119 (JA-44) CONFIGURATION	02/T2/S7 .000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	576.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

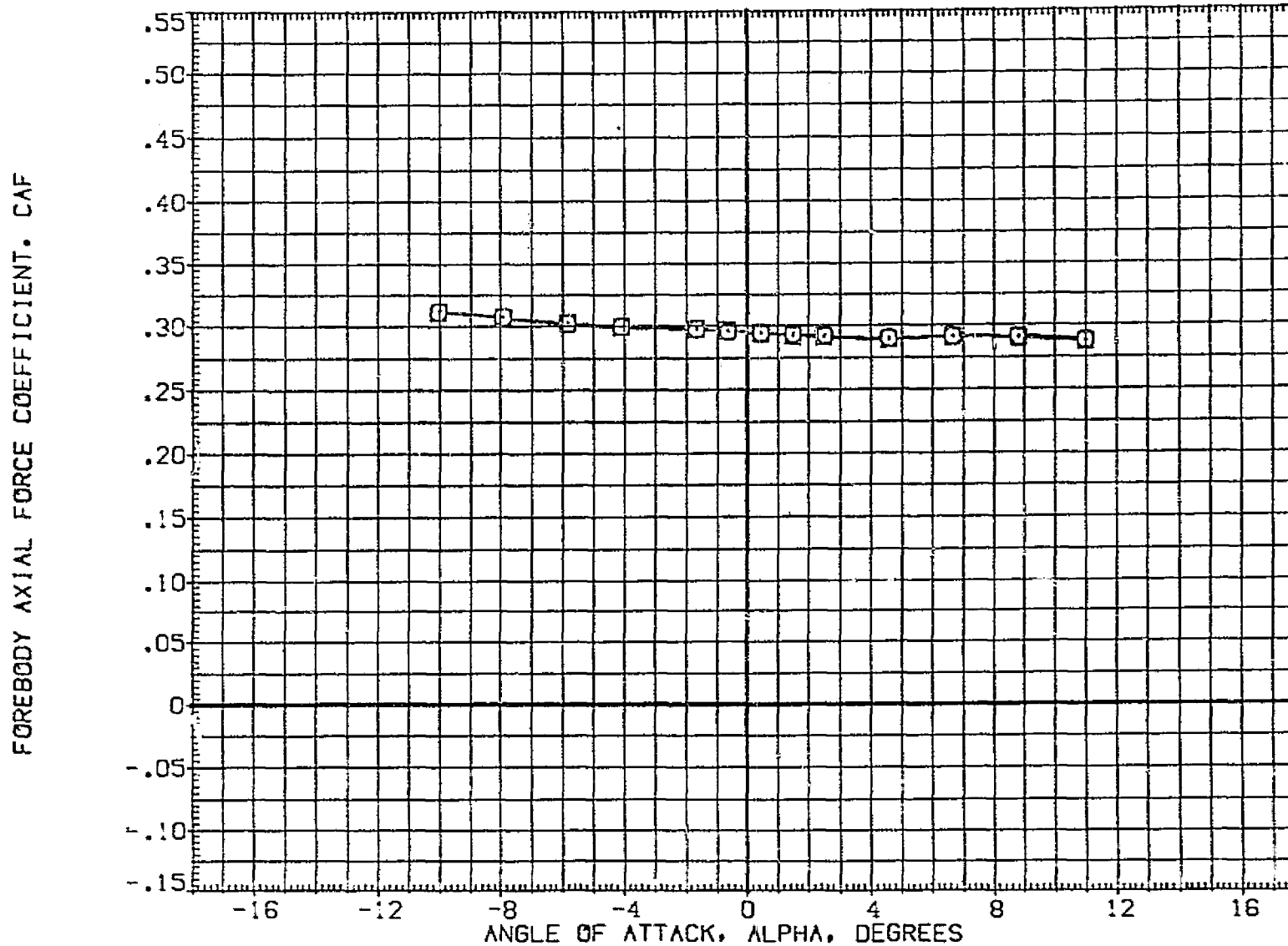


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7 .000
(B-8007)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T2/S7 .000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

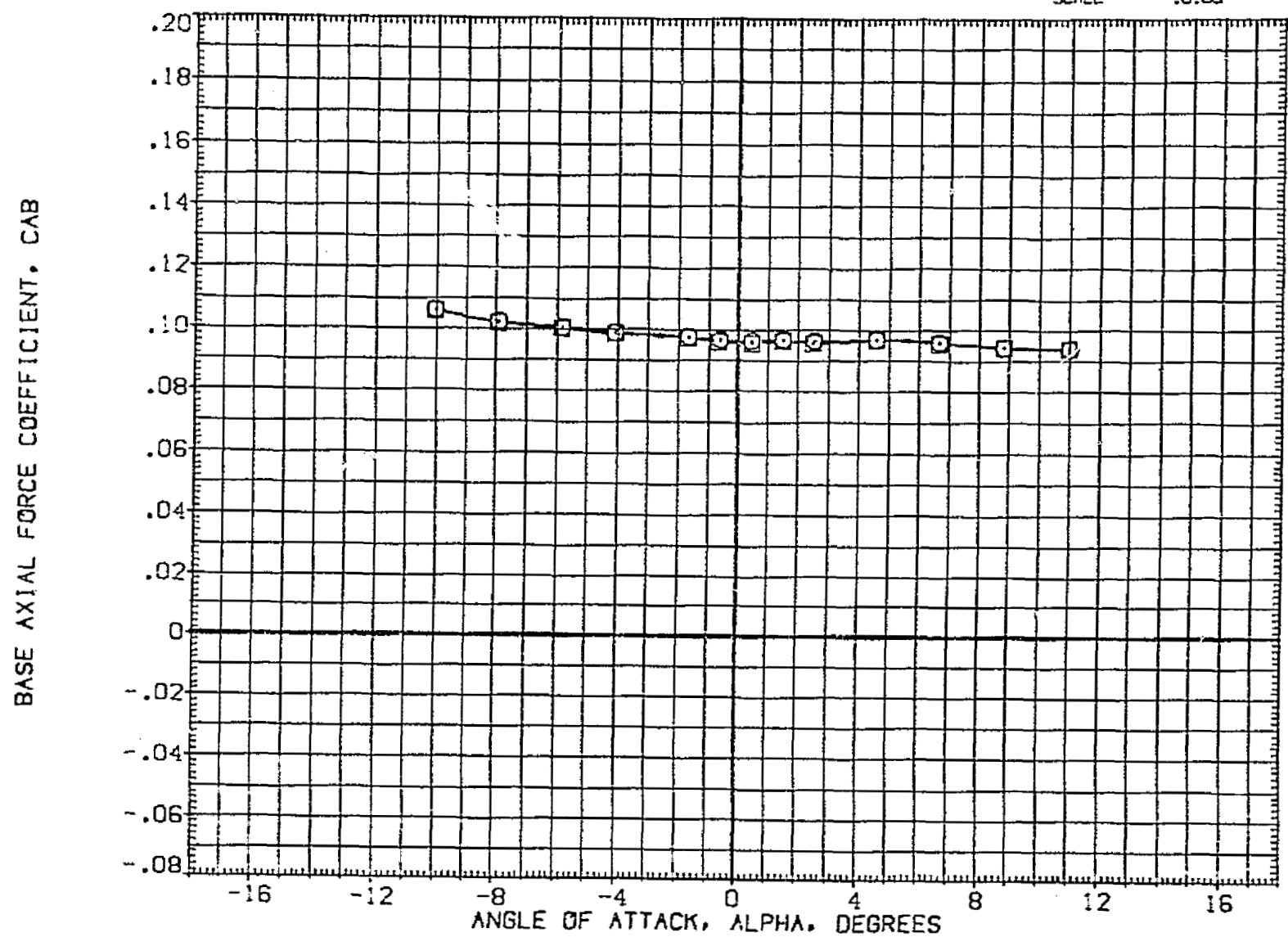


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	LPVT (C88/1119) (A-44) CONFIGURATION 02/T4/S7	.000
(B-8007)	LPVT (C88/1119) (A-44) CONFIGURATION 02/T2/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

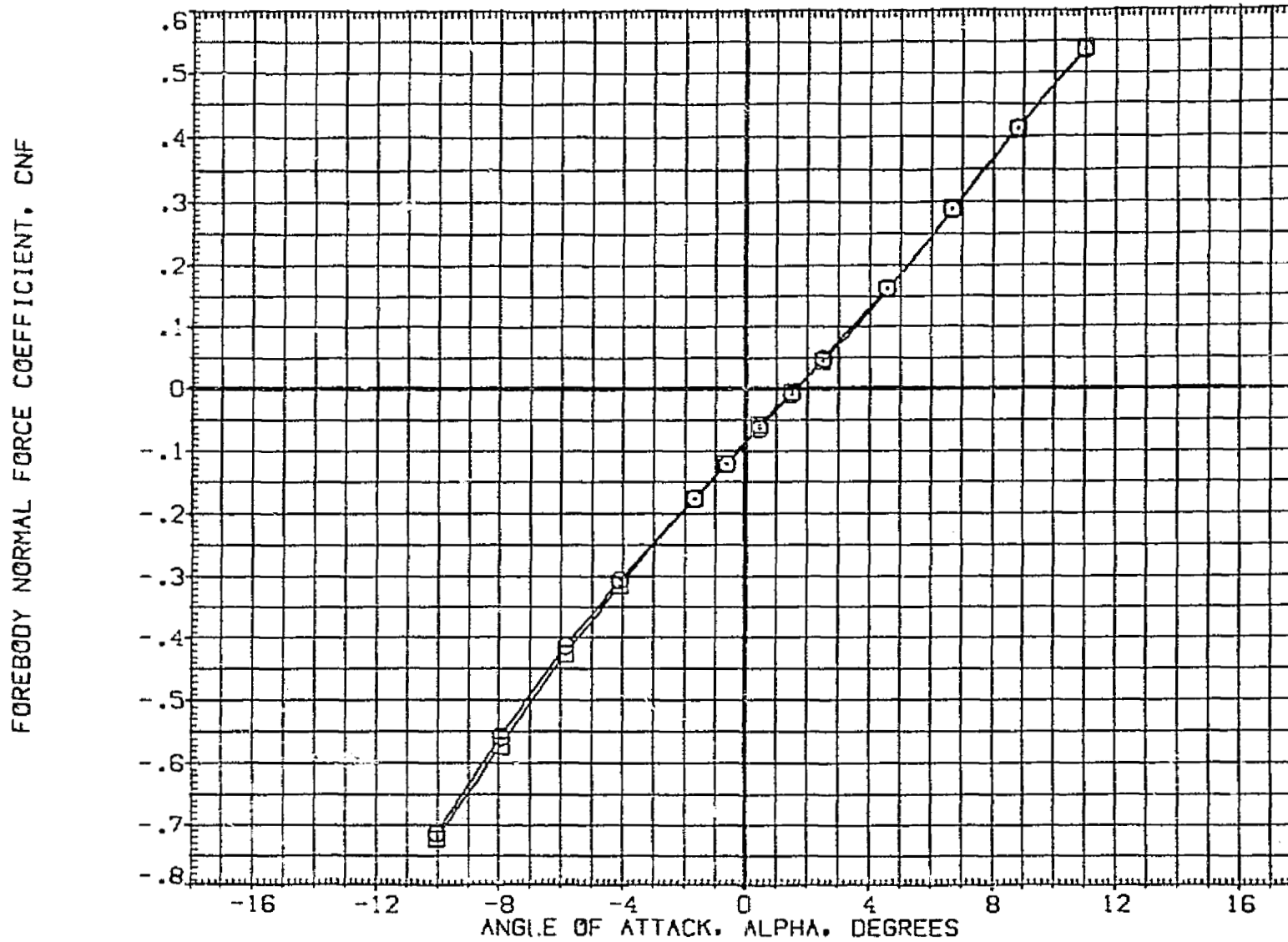


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003)	□ UPVT 1088/1119 (IA-44) CONFIGURATION 02/14/57	.000
(B-8007)	□ UPVT 1088/1119 (IA-44) CONFIGURATION 02/12/57	.000

REFERENCE INFORMATION		
SREF	2690.0000	SO. FT.
LREF	1290.3000	INCHES
BREF	1290.3000	INCHES
XMRP	976.0000	IN. XT
YMRP	.0000	IN. YT
ZMRP	400.0000	IN. ZT
SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

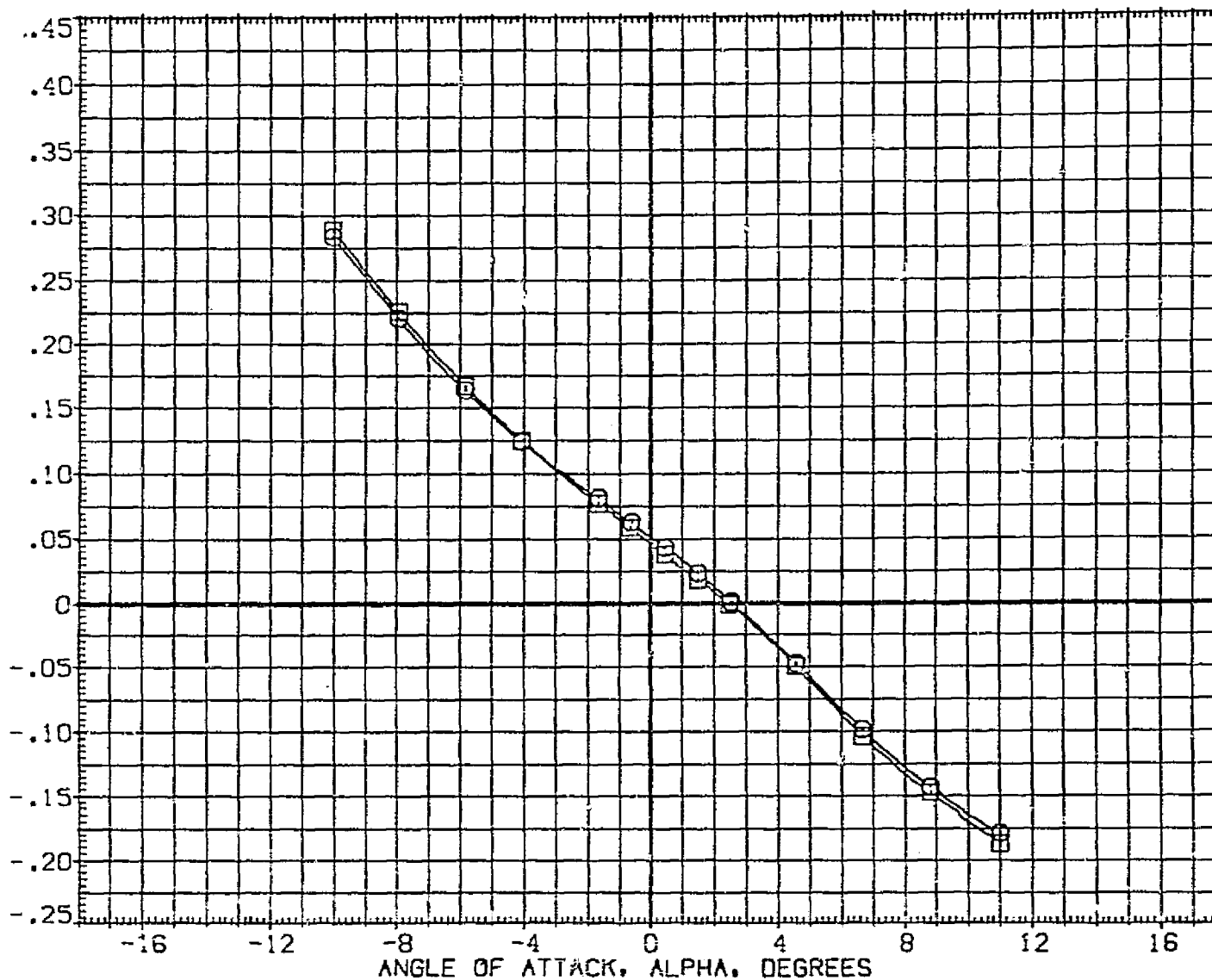


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA
(B-8003) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000
(B-8007) □	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T2/S7	.000

REFERENCE INFORMATION		
SREF	2690.0000	50. FT.
LREF	1290.3000	100.65
BREF	1260.3000	100.25
XREF	976.0000	IN. XT
YREF	.0000	IN. YT
ZREF	400.0000	IN. ZT
SCALE	.0100	

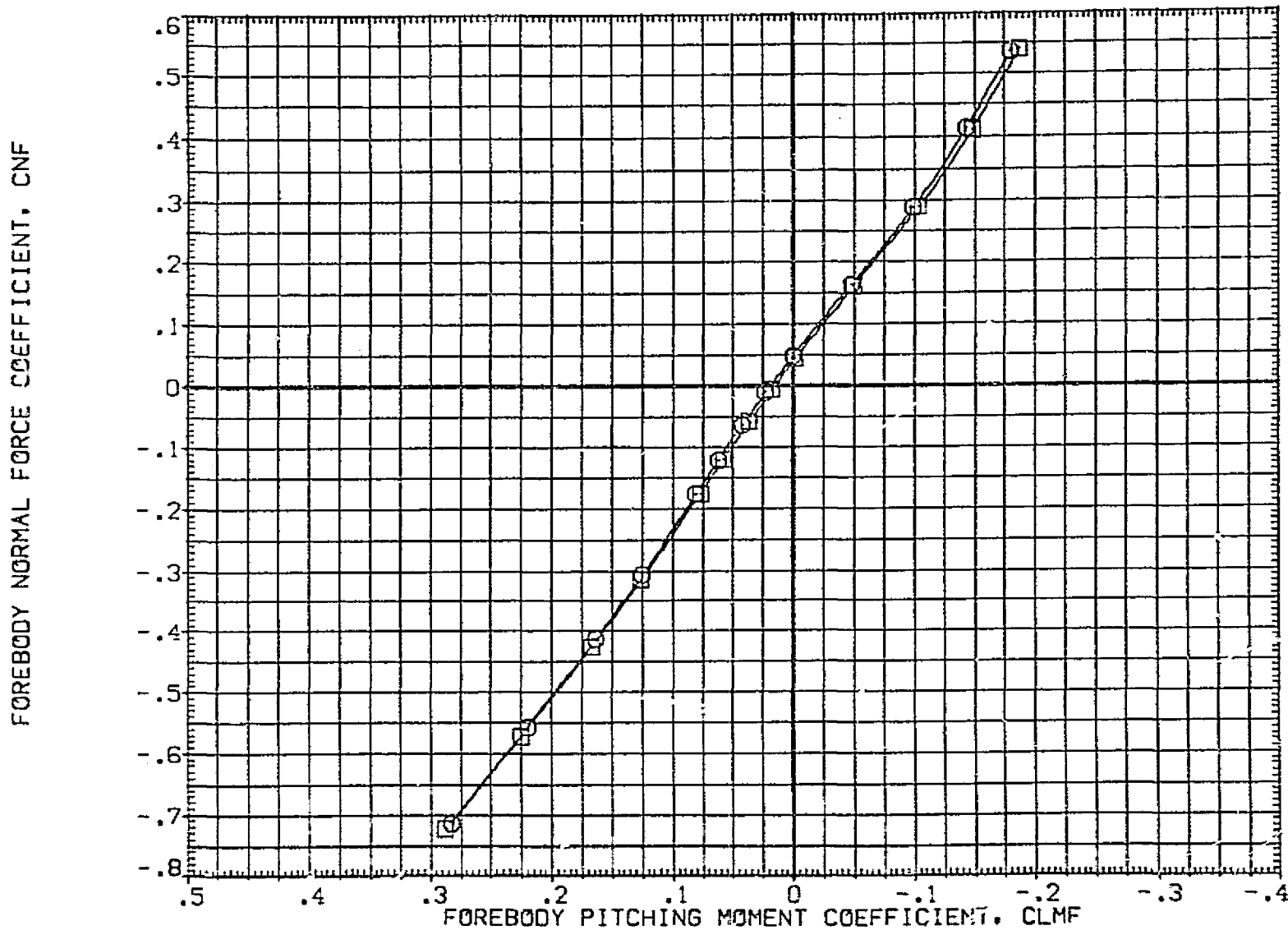


FIGURE 9 EFFECT OF ET DRAG BUILD-UP ON LAUNCH VEHICLE LONG. CHARACT.
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2680.0000 SQ.FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

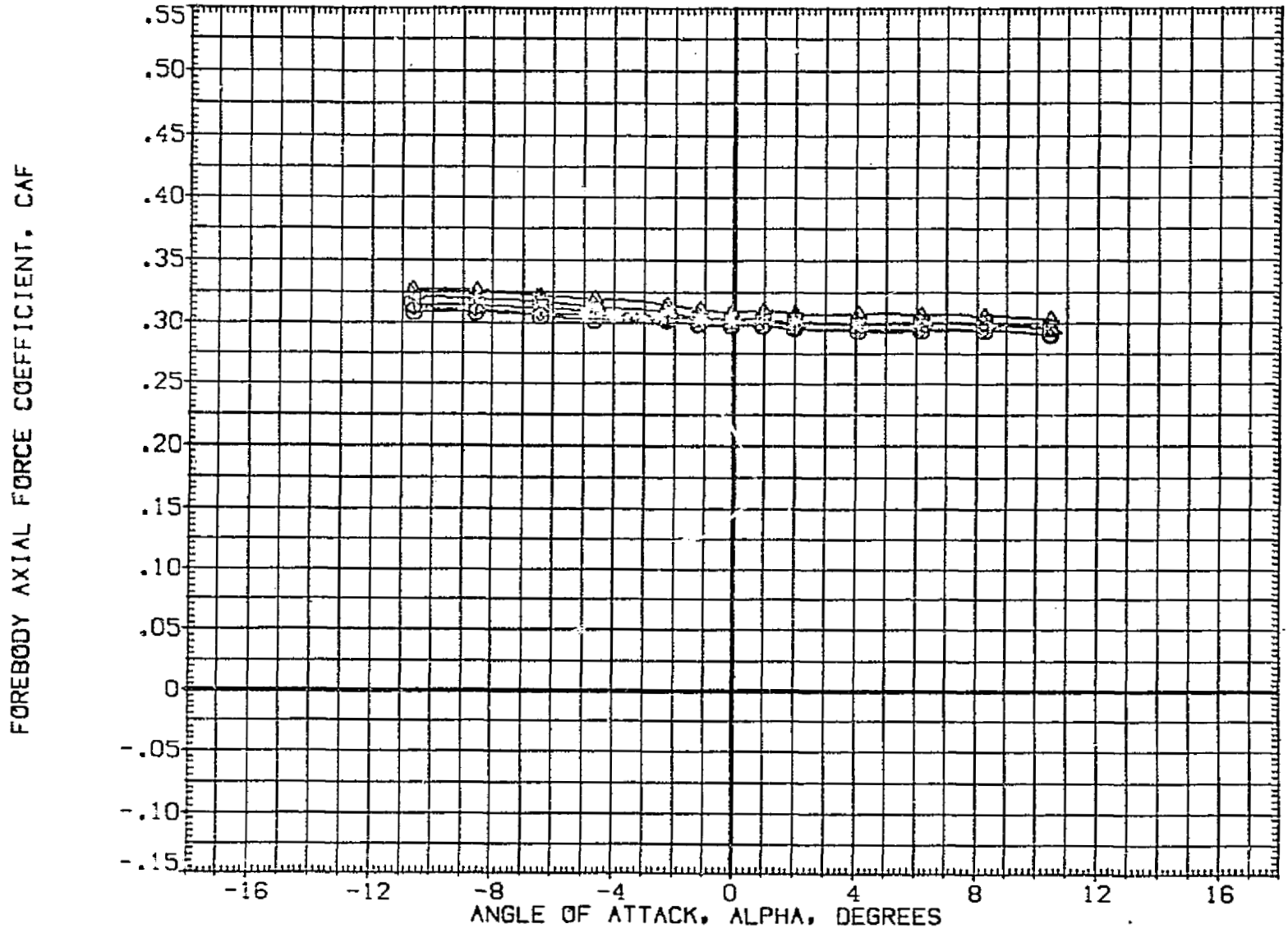


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	50. FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

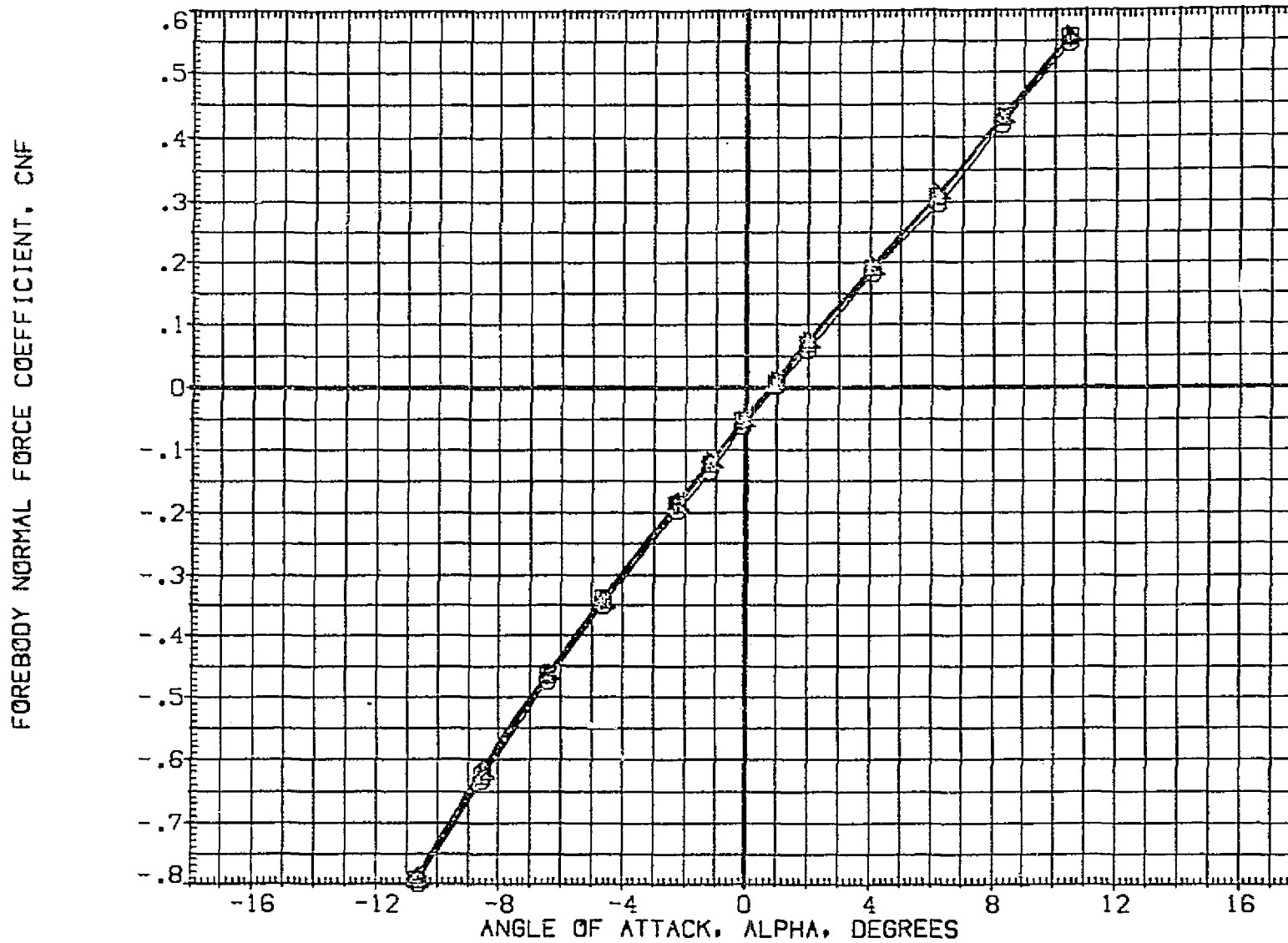


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

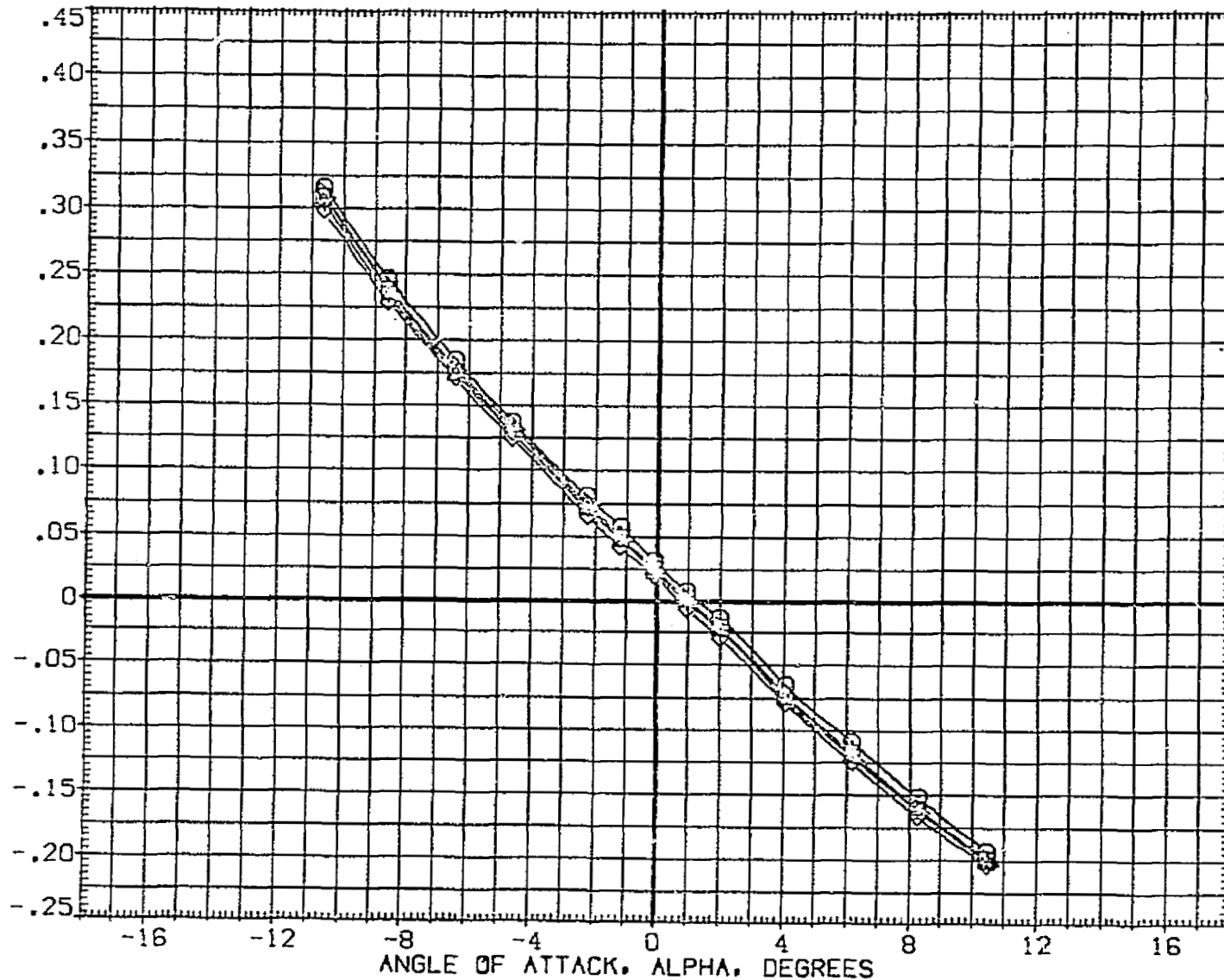


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LD	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(9-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	.000	.000	.000	SREF 2690.0000 SQ.FT.
(9-8007)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	.000	4.000	.000	LREF 1290.3000 IN. F6
(9-8014)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	.000	8.000	.000	SREF 1290.3000 IN. F6
(9-8016)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	-4.000	8.000	8.000	XMRP 976.0000 IN. XT
(9-8015)	LPVT 1088/1119 (IA-44) CONFIGURATION	02/T4/S7	-8.000	8.000	8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

FOREBODY AXIAL FORCE COEFFICIENT, CAF

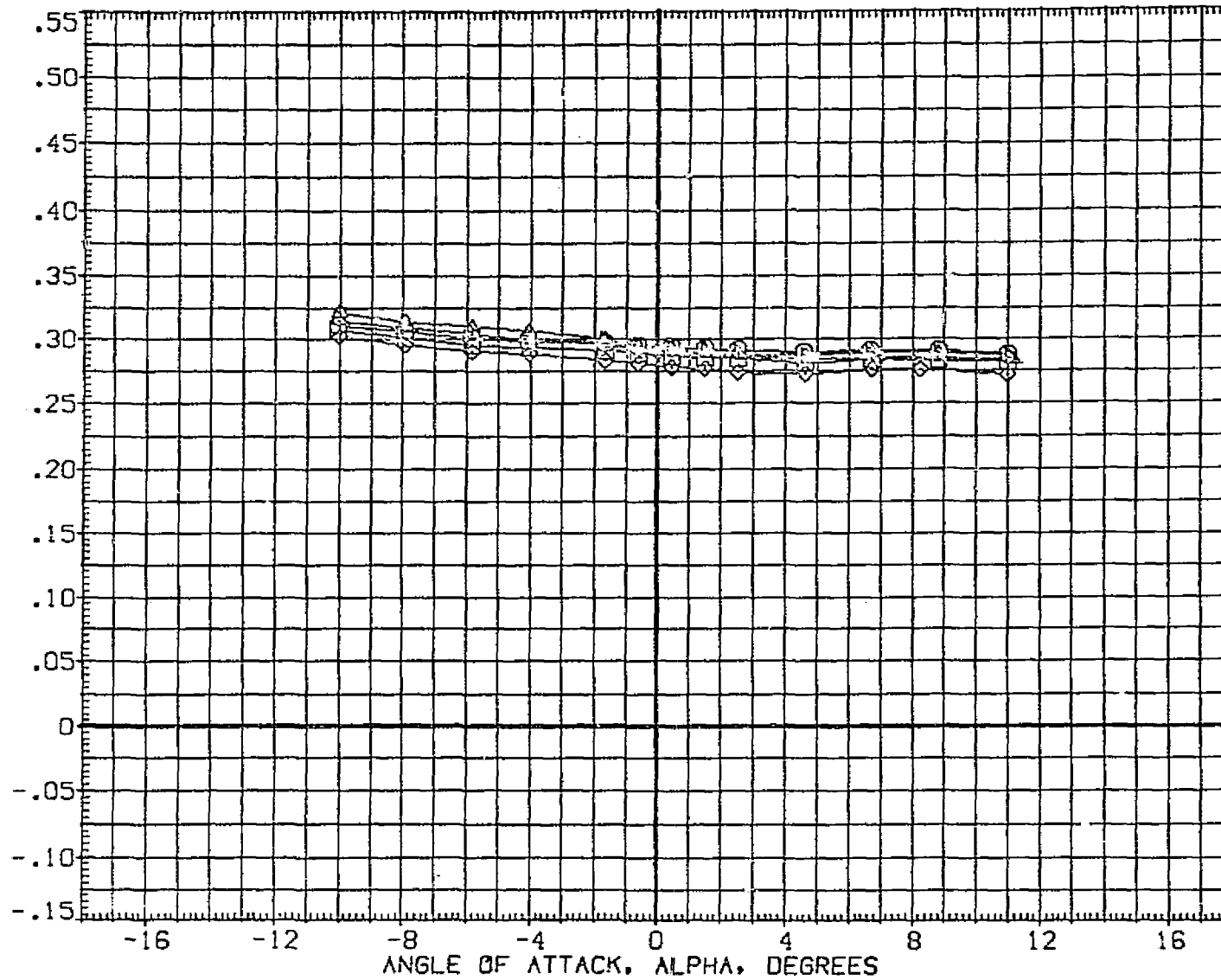


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(B-8003)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ. FT.
(B-8017)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. YT
(B-8015)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

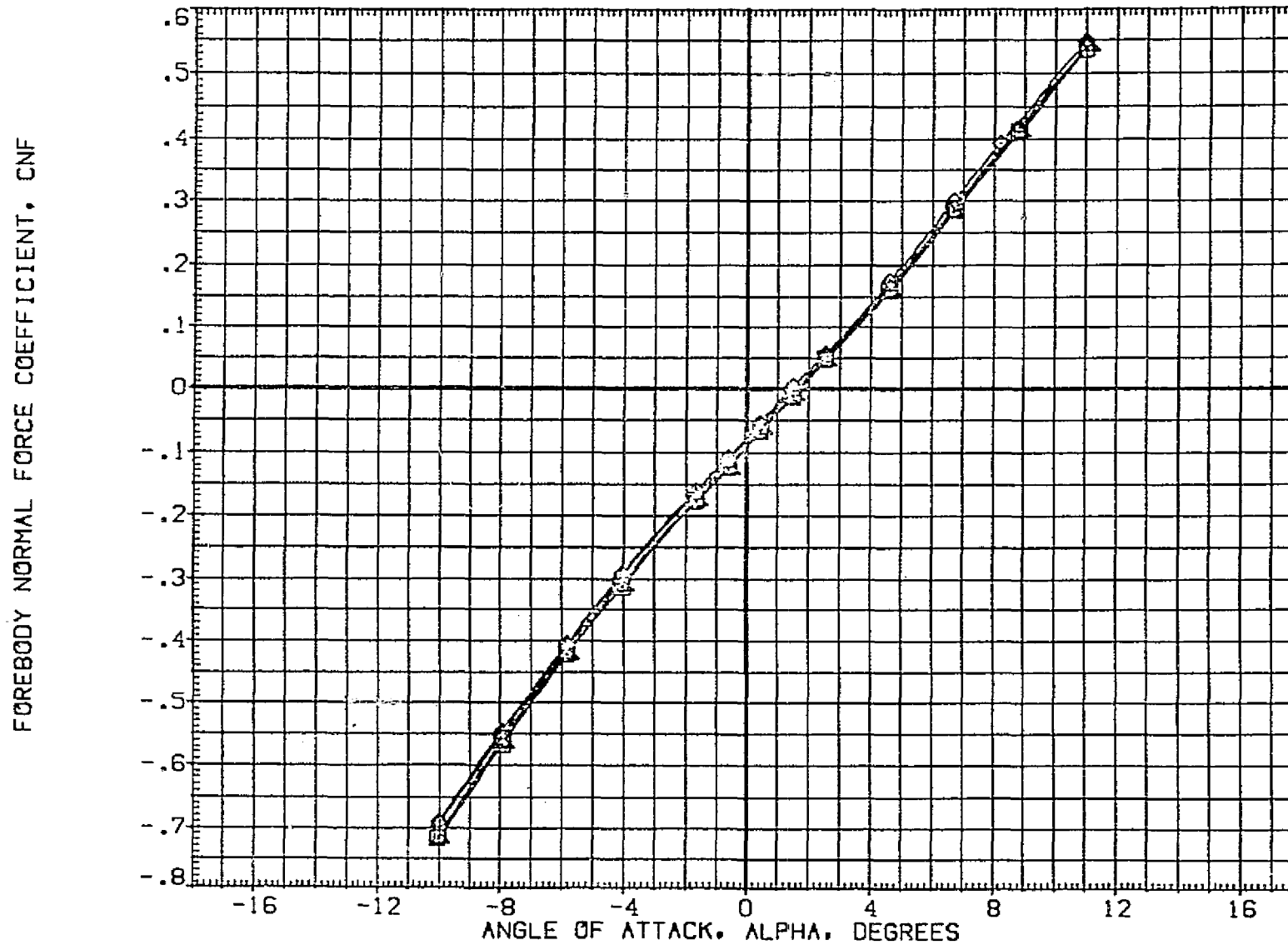


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(B-8003)	□ LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2630.0000	50. FT.
(B-8017)	○ LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	IN. ES
(B-8014)	◇ LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	IN. ES
(B-8016)	△ LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(B-8015)	▽ LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	100.0000	IN. ZT
						SCALE	.0100	

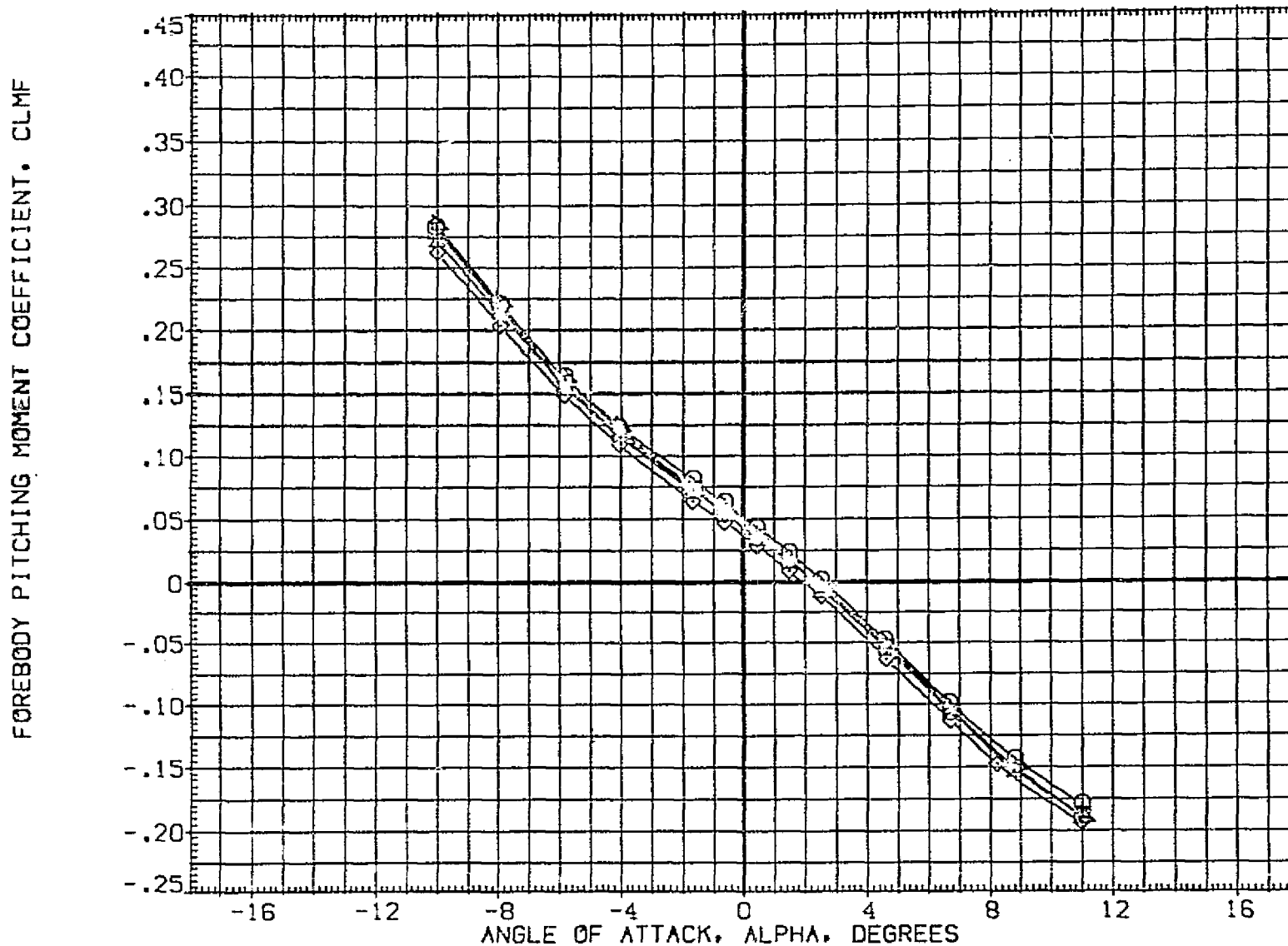


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(B-8003)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(B-8017)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000 INCHES
(B-8014)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000 INCHES
(B-8016)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000 IN. XT
(B-8015)	LPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

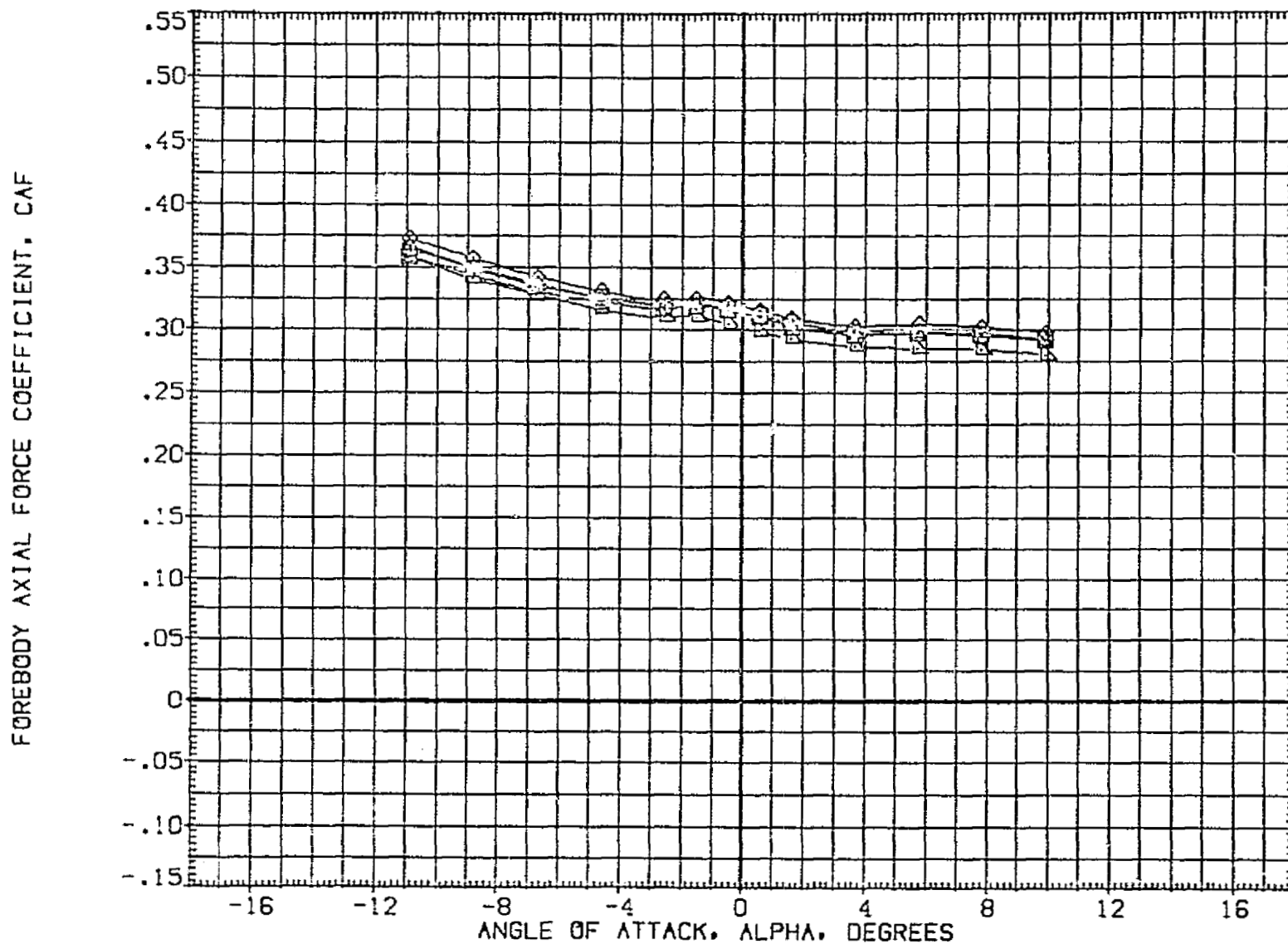


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LD	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION	
(B-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ. FT.
(B-8017)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000 INCHES
(B-8014)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000 INCHES
(B-8016)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000 IN. XT
(B-8015)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

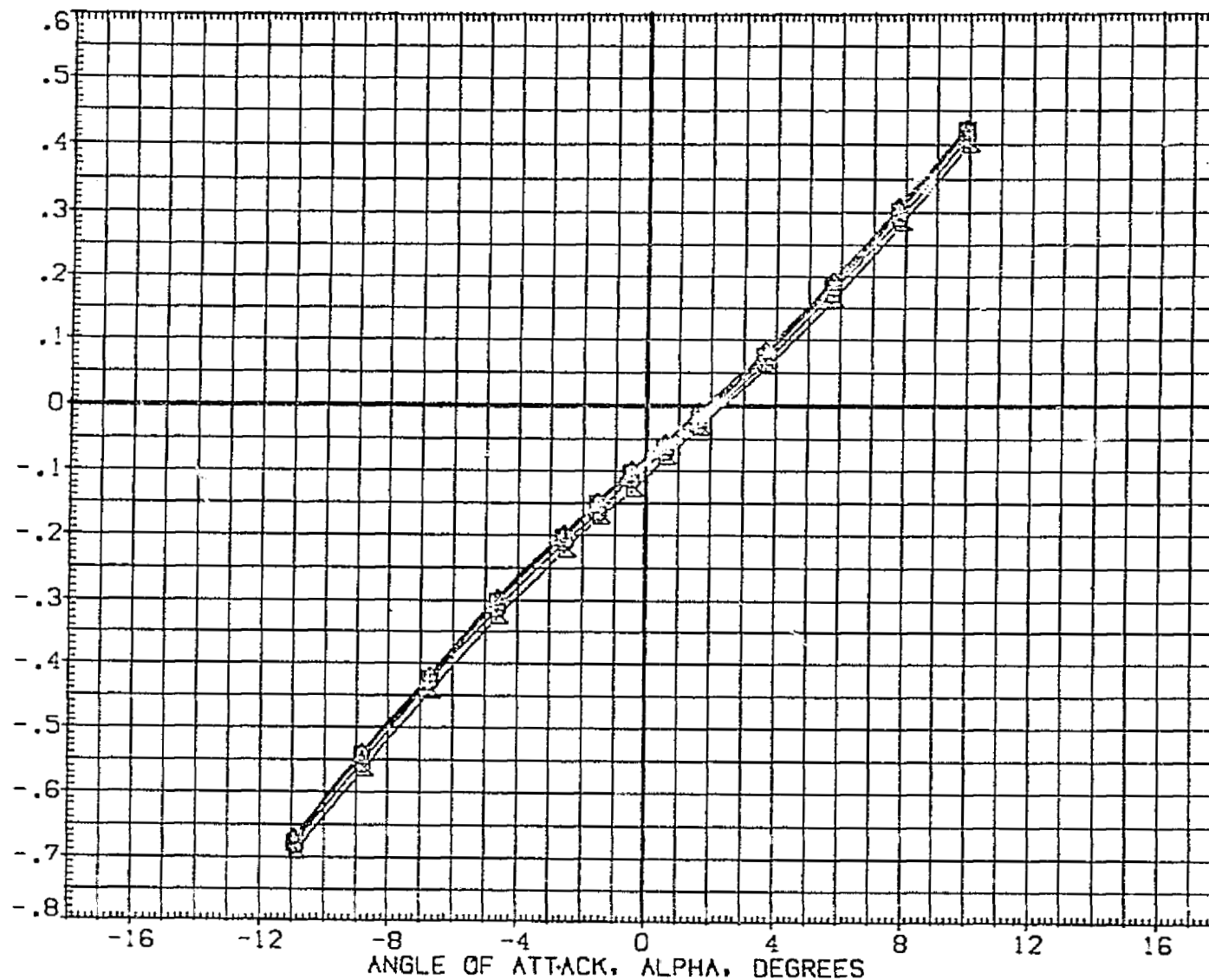


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(B-8017)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(B-8015)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

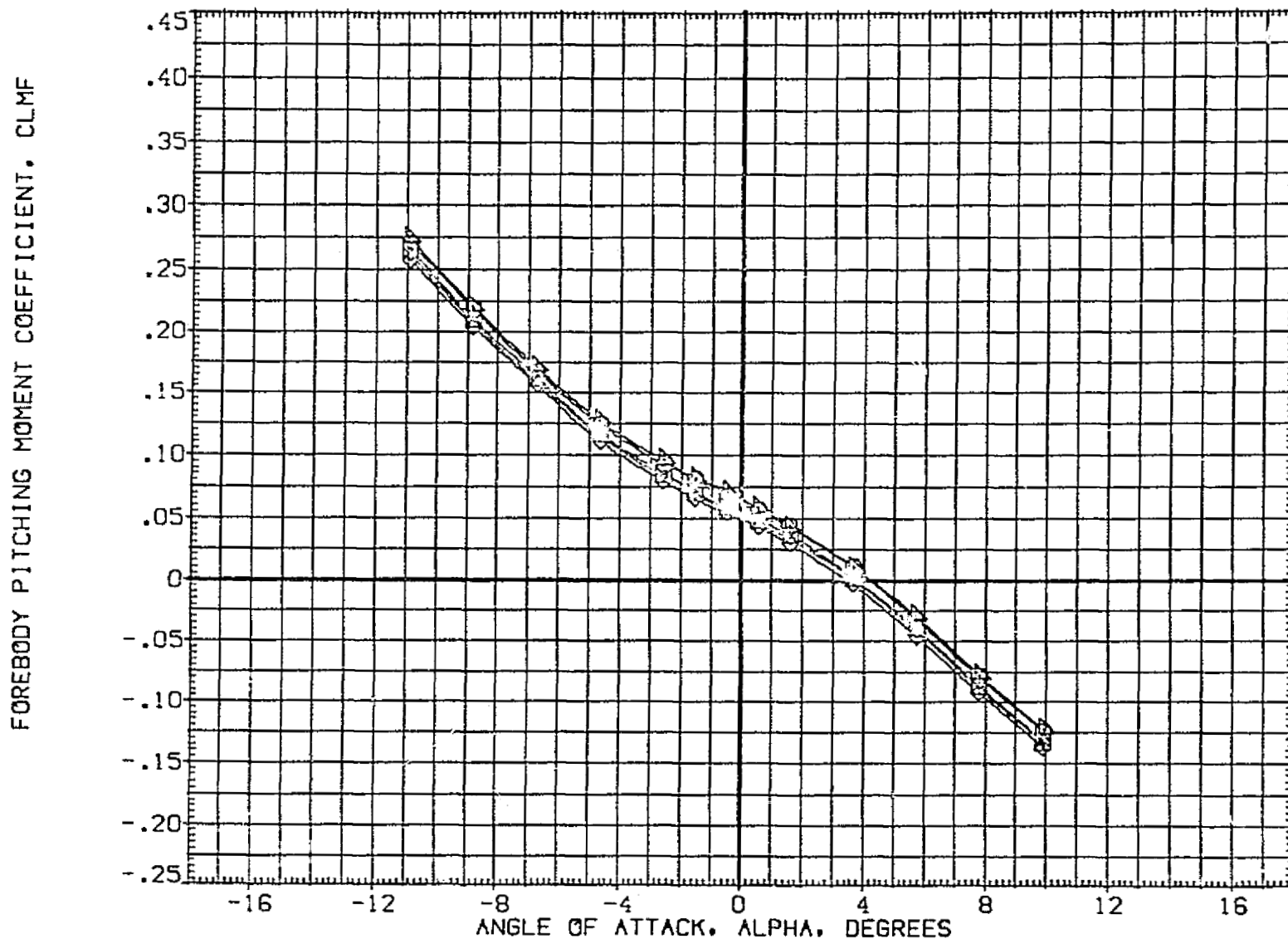


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(C)MACH = 2.50

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(B-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ. FT.
(B-8017)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(B-8015)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

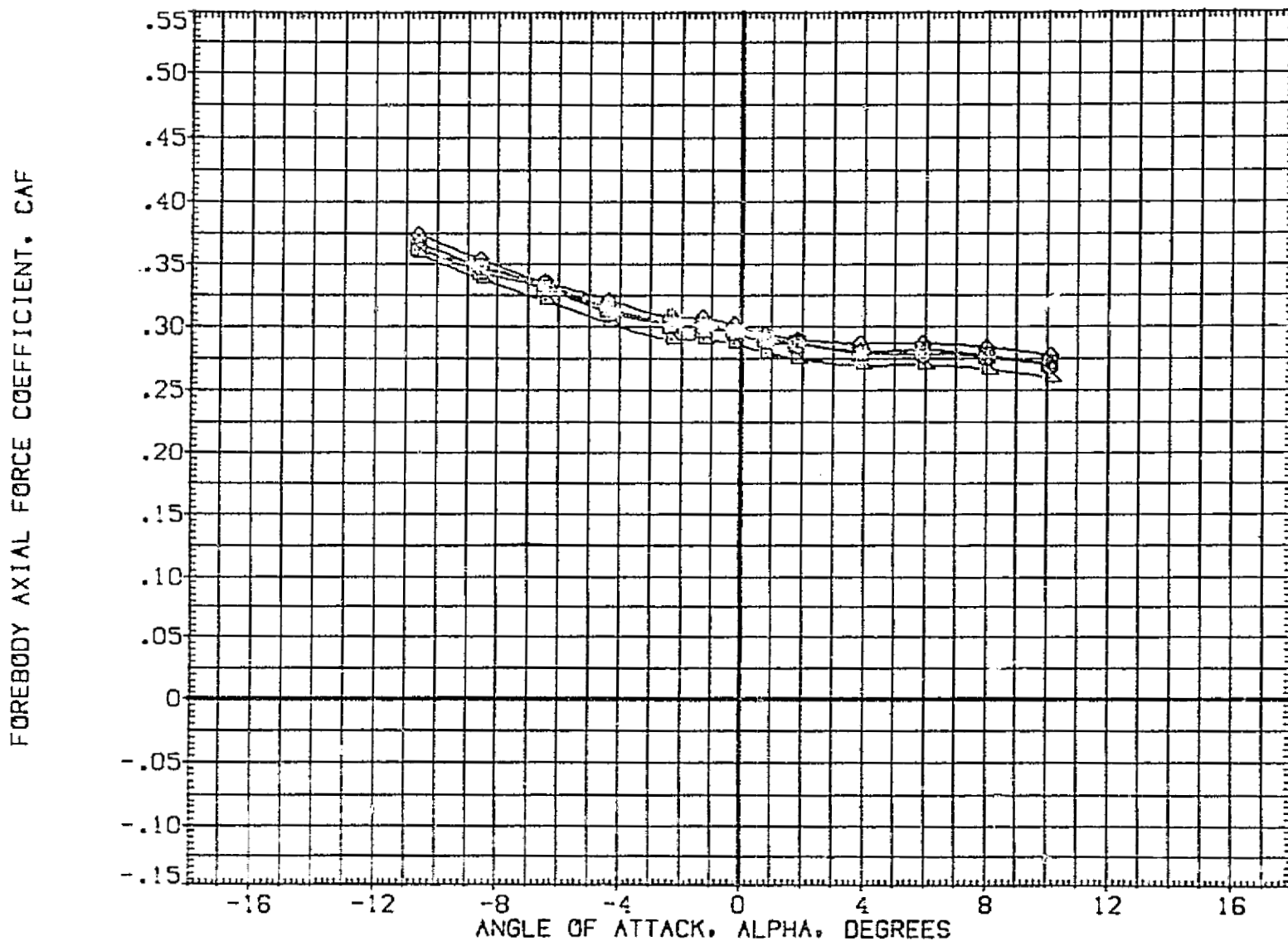


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
(9-8003)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(9-8017)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(9-8014)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(9-8016)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(9-8015)	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/57	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

FOREBODY NORMAL FORCE COEFFICIENT, CNF

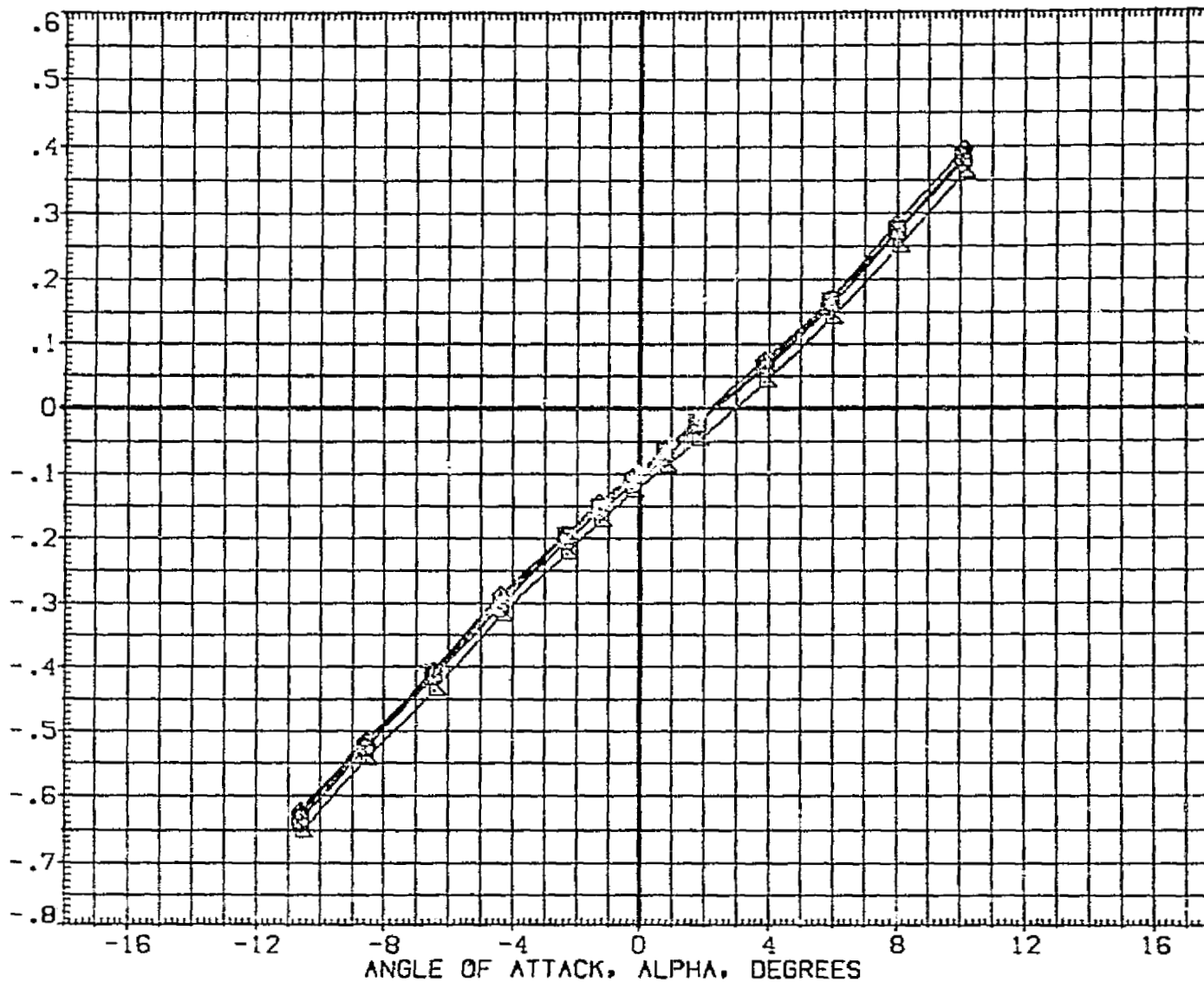


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(D)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(B-8003)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57	.000	.000	.000	.000	SREF	2690.0000	50. FT.
(B-8017)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(B-8014)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(B-8016)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(B-8015)	LPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

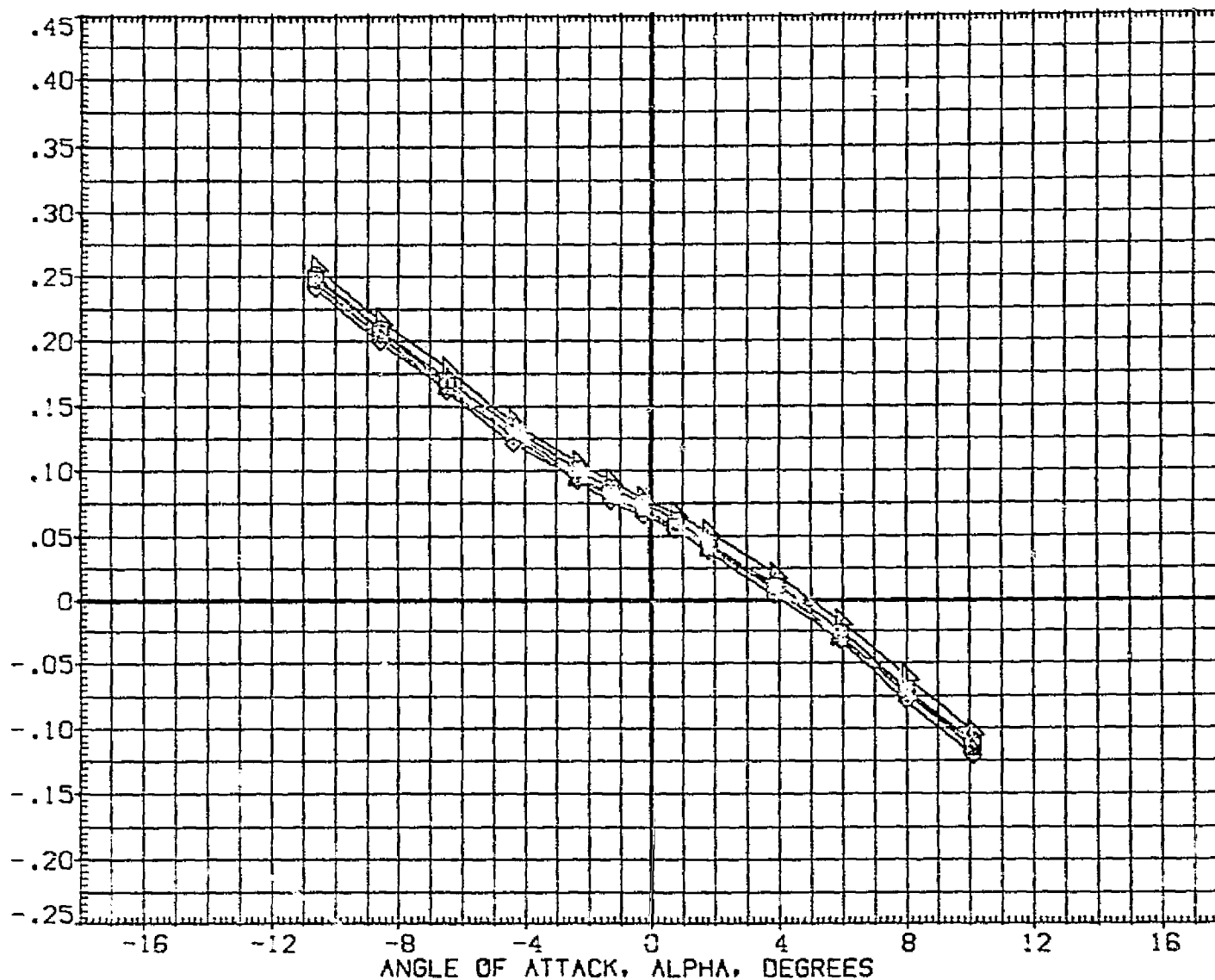


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(M)MACH = 2.86

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. YT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. YT
						SCALE .0100

FOREBODY AXIAL FORCE COEFFICIENT, CAF

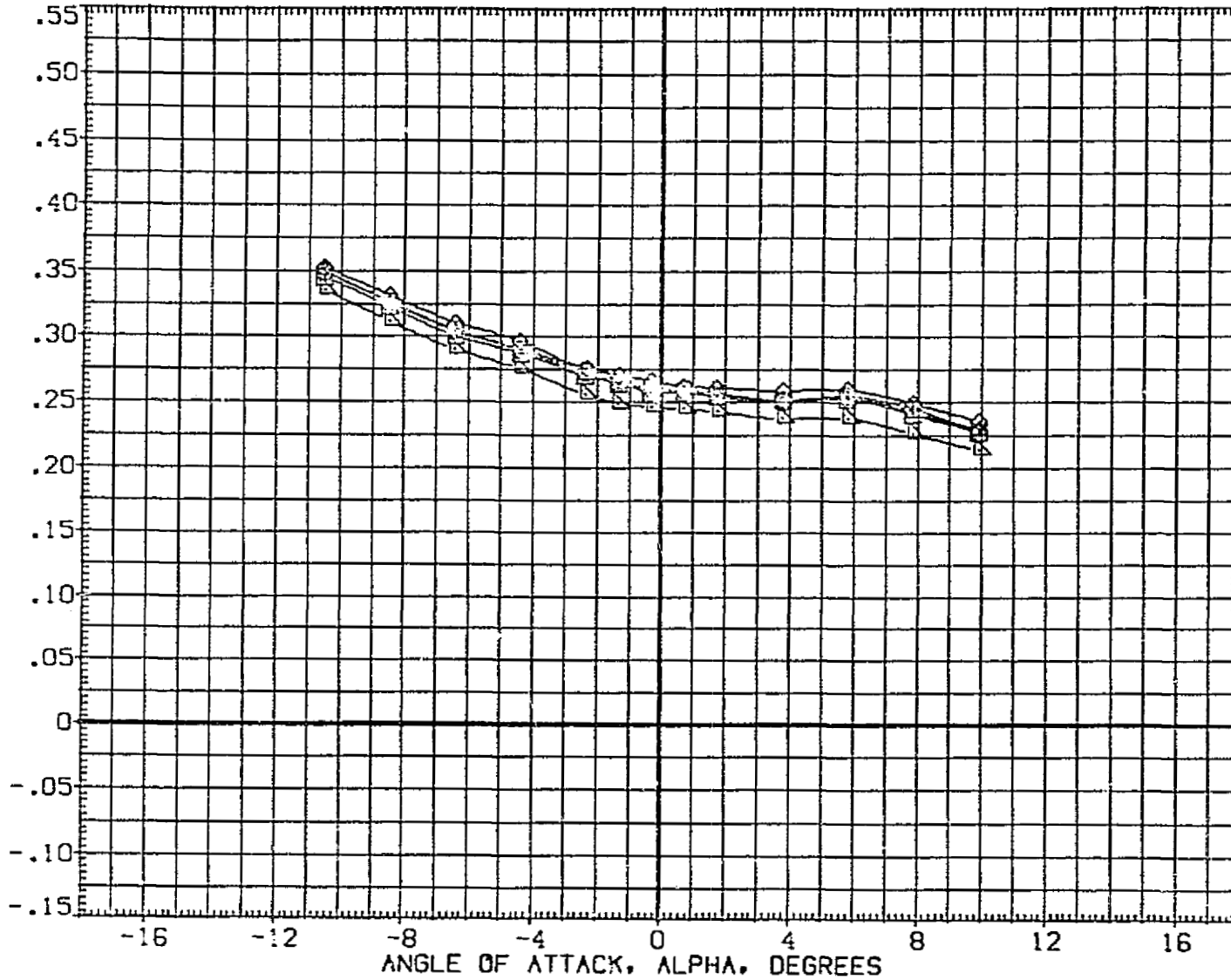


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	90. FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YI
						ZMRP	400.0000	IN. ZI
						SCALE	.0100	

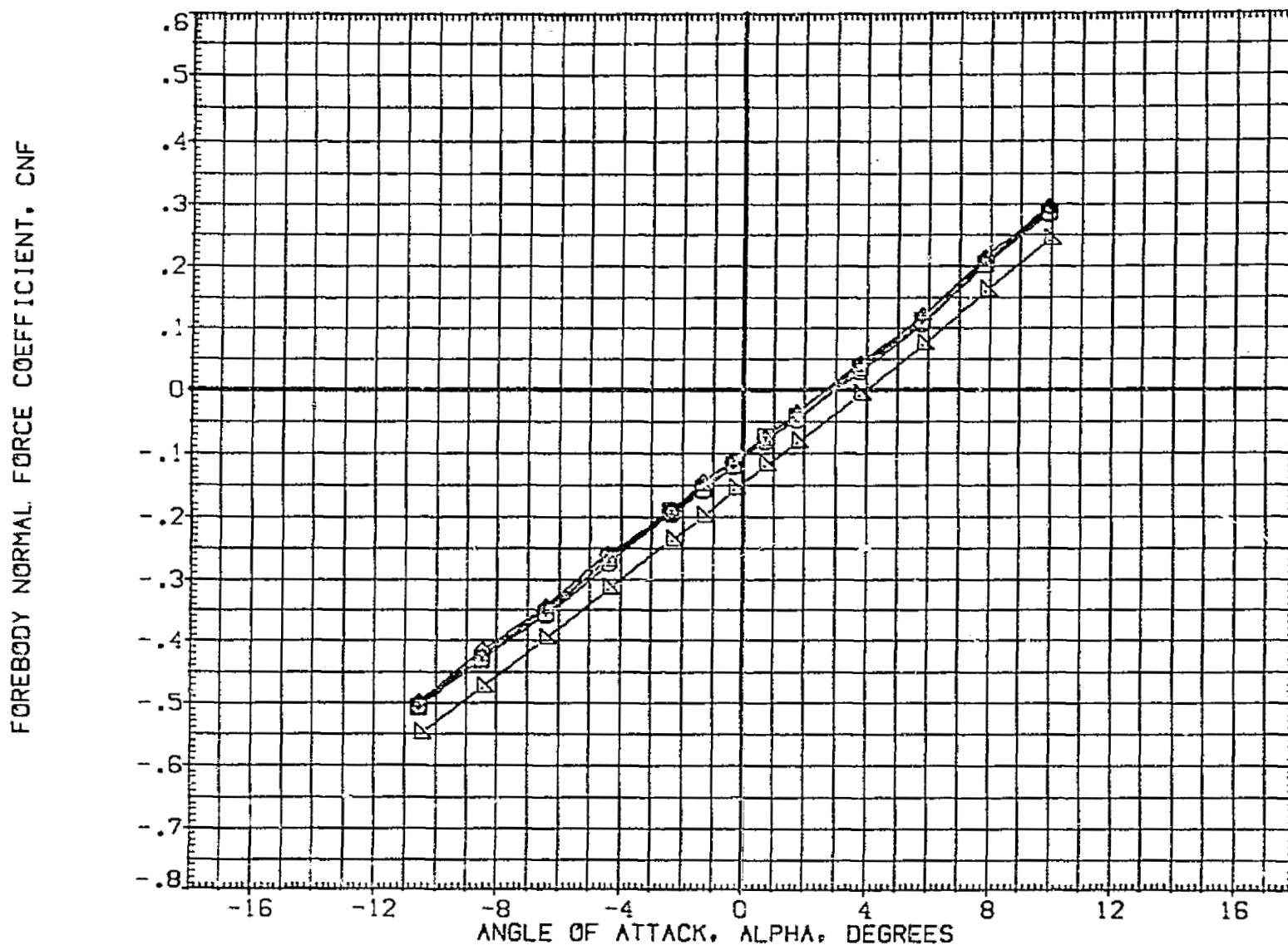


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L6	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(B-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	SQ.FT.
(B-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(B-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(B-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(B-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

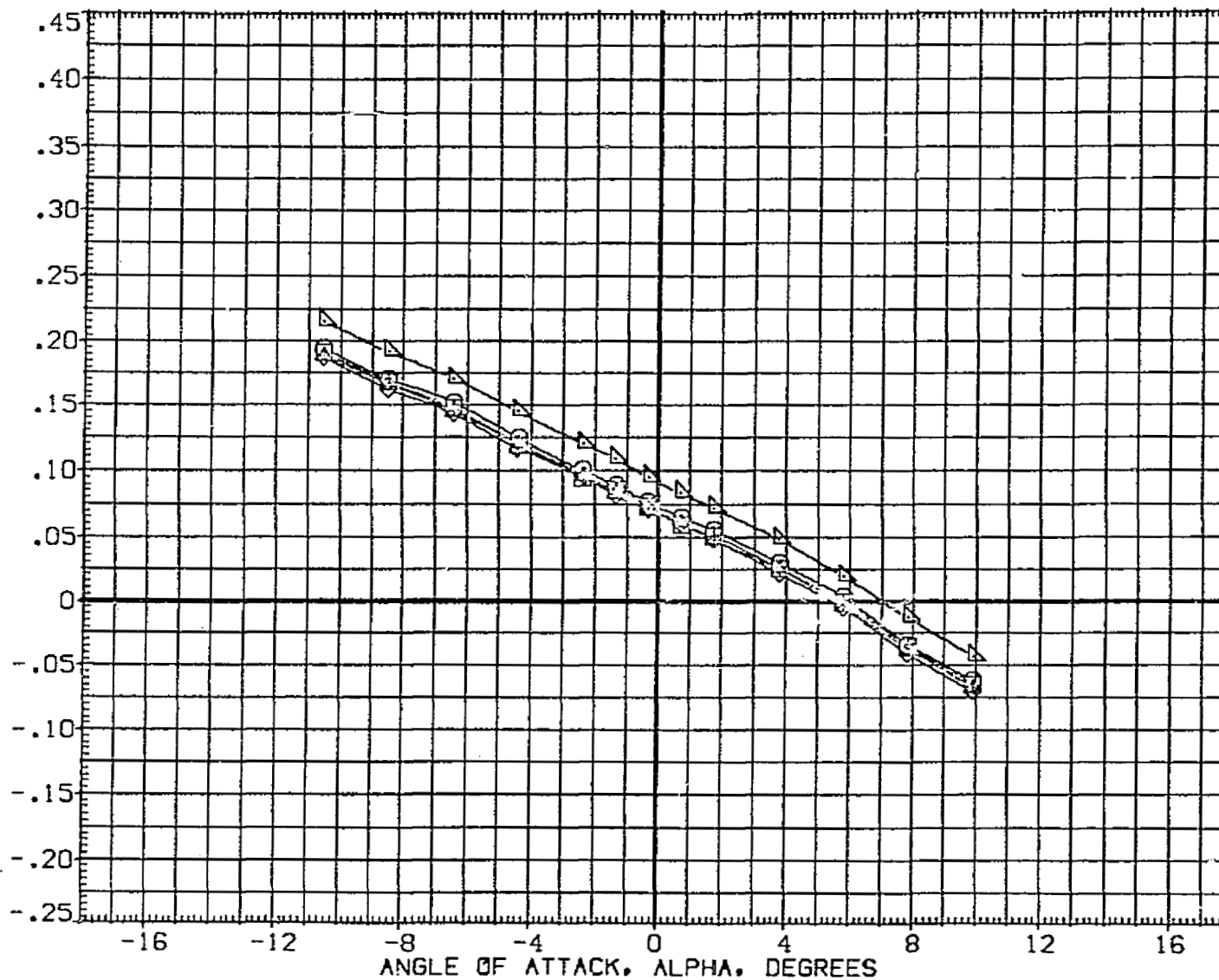


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(E)MACH = 3.90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LD	ELV-LI	ELV-RI	ELV-RD	REFERENCE INFORMATION		
(S-8003)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	SQ. FT.
(S-8017)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	IN. DEG.
(S-8014)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	IN. DEG.
(S-8016)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(S-8015)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

FOREBODY AXIAL FORCE COEFFICIENT, CAF

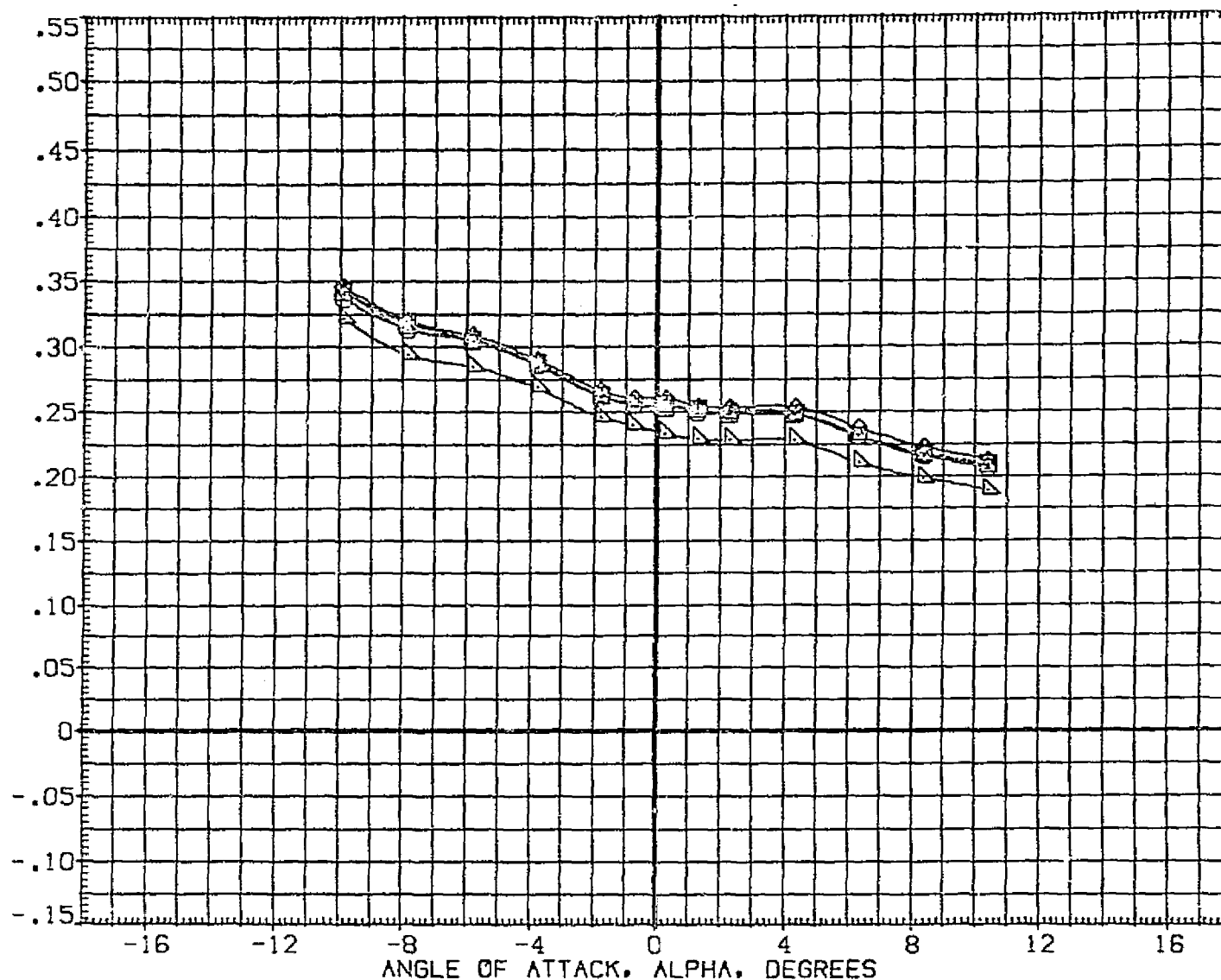


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
(9-8003)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(9-8017)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(9-8014)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(9-8016)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(9-8015)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

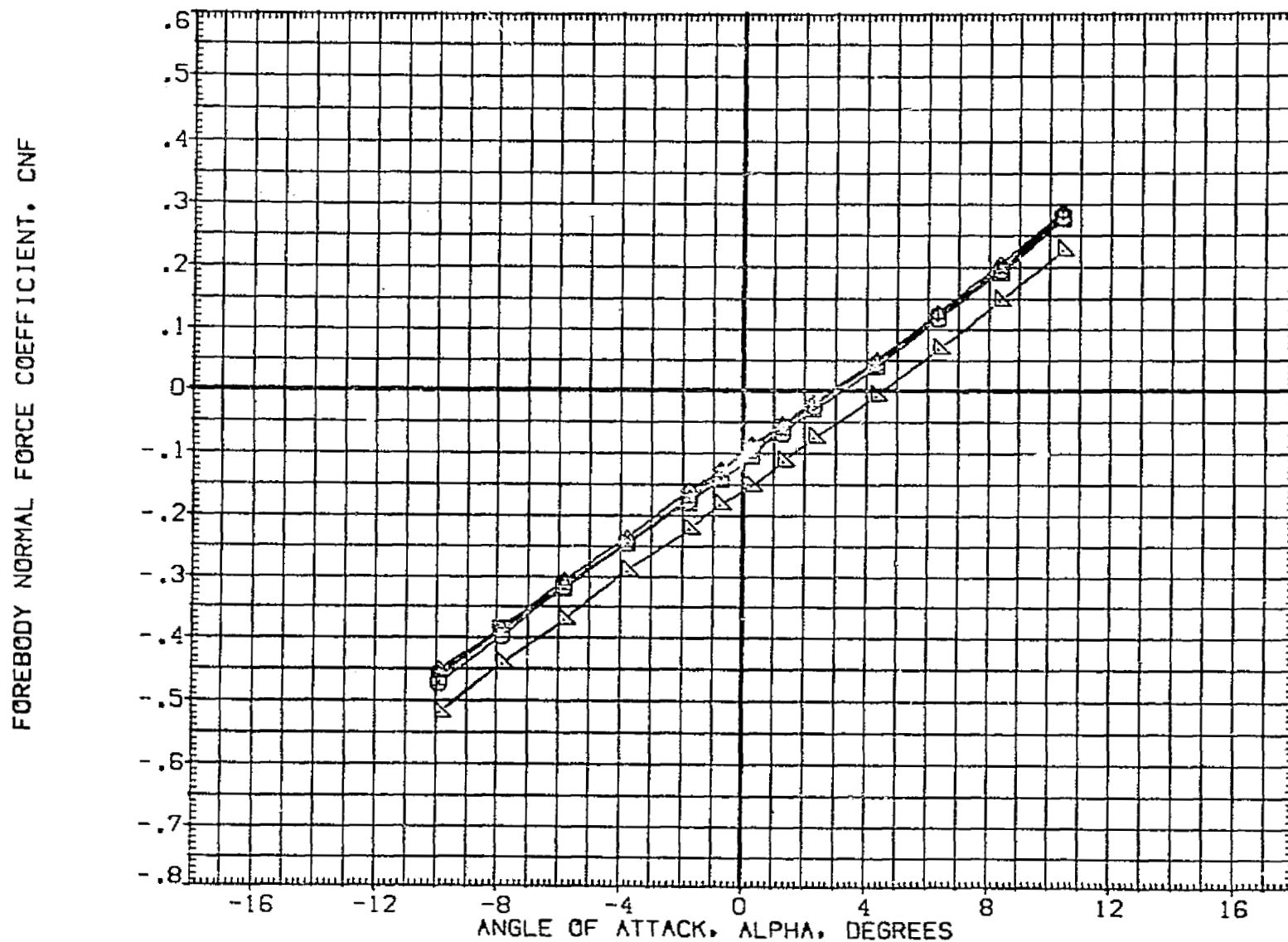


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(9-0003)	□ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(9-0017)	□ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000 INCHES
(9-0014)	◇ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000 INCHES
(9-0016)	△ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000 IN. XT
(9-0015)	▽ UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

FOREBODY PITCHING MOMENT COEFFICIENT, CLMF

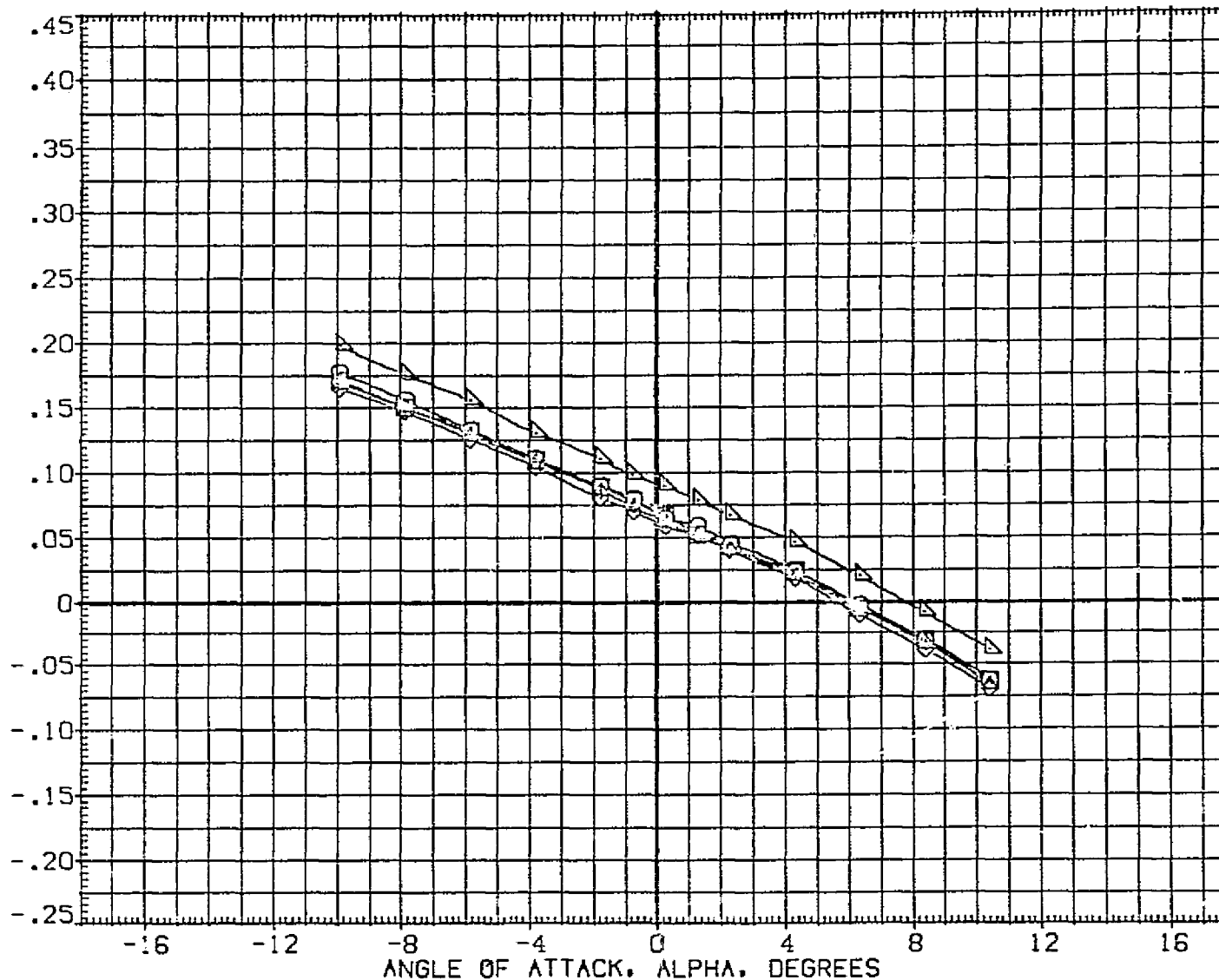


FIGURE 10 EFFECT OF ELEVON DEFLECTIONS ON LAUNCH VEHICLE LONG. CHARACT.

(F)MACH = 4.60

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(R-8M03)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	90.FT.
(R-8M17)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(R-8M14)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(R-8M16)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(R-8M15)	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

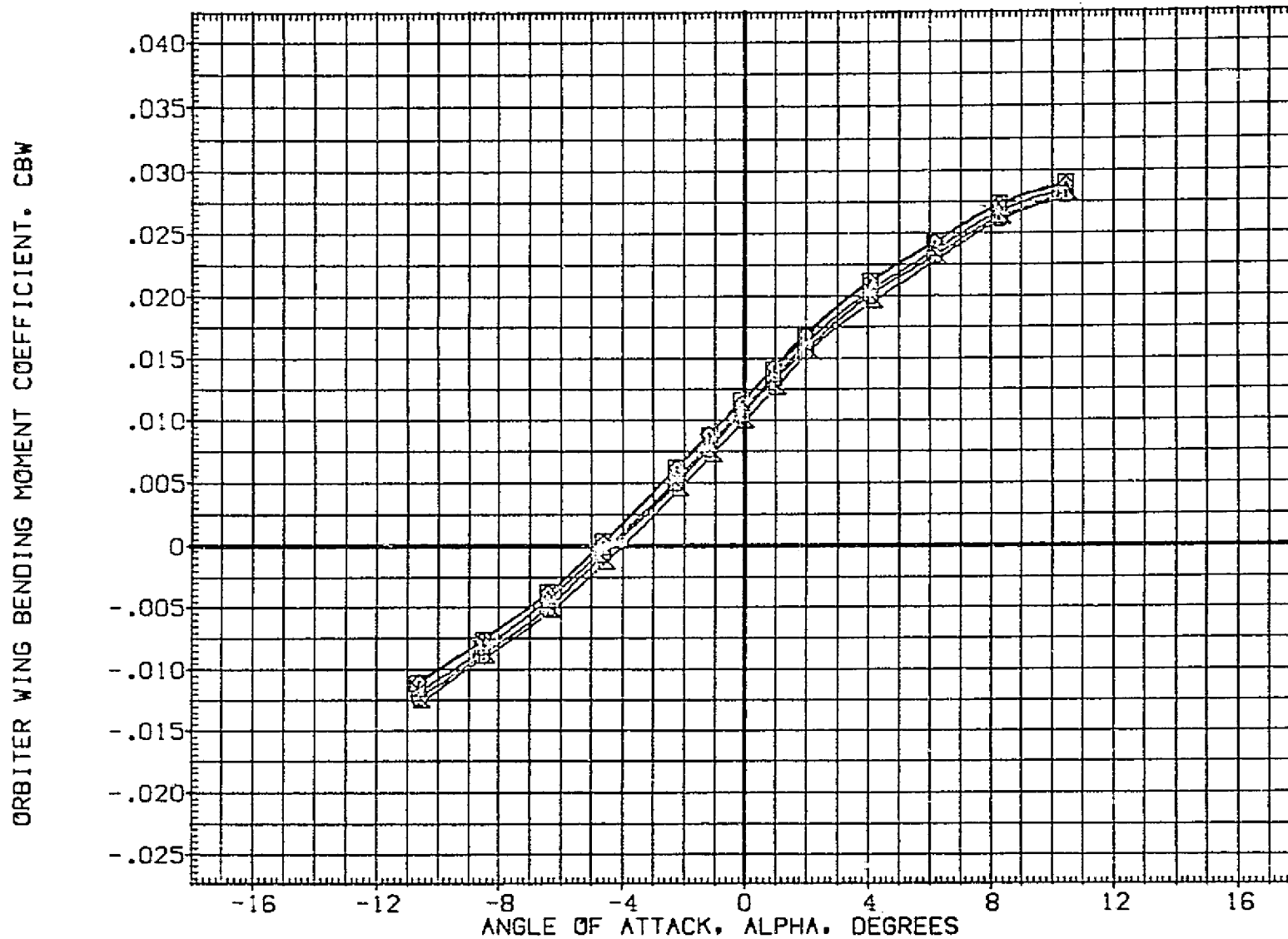


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION		
(R) 03	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	50. FT.
(R) 17	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INCHES
(R) 14	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INCHES
(R) 16	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	576.0000	IN. XT
(R) 15	UPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

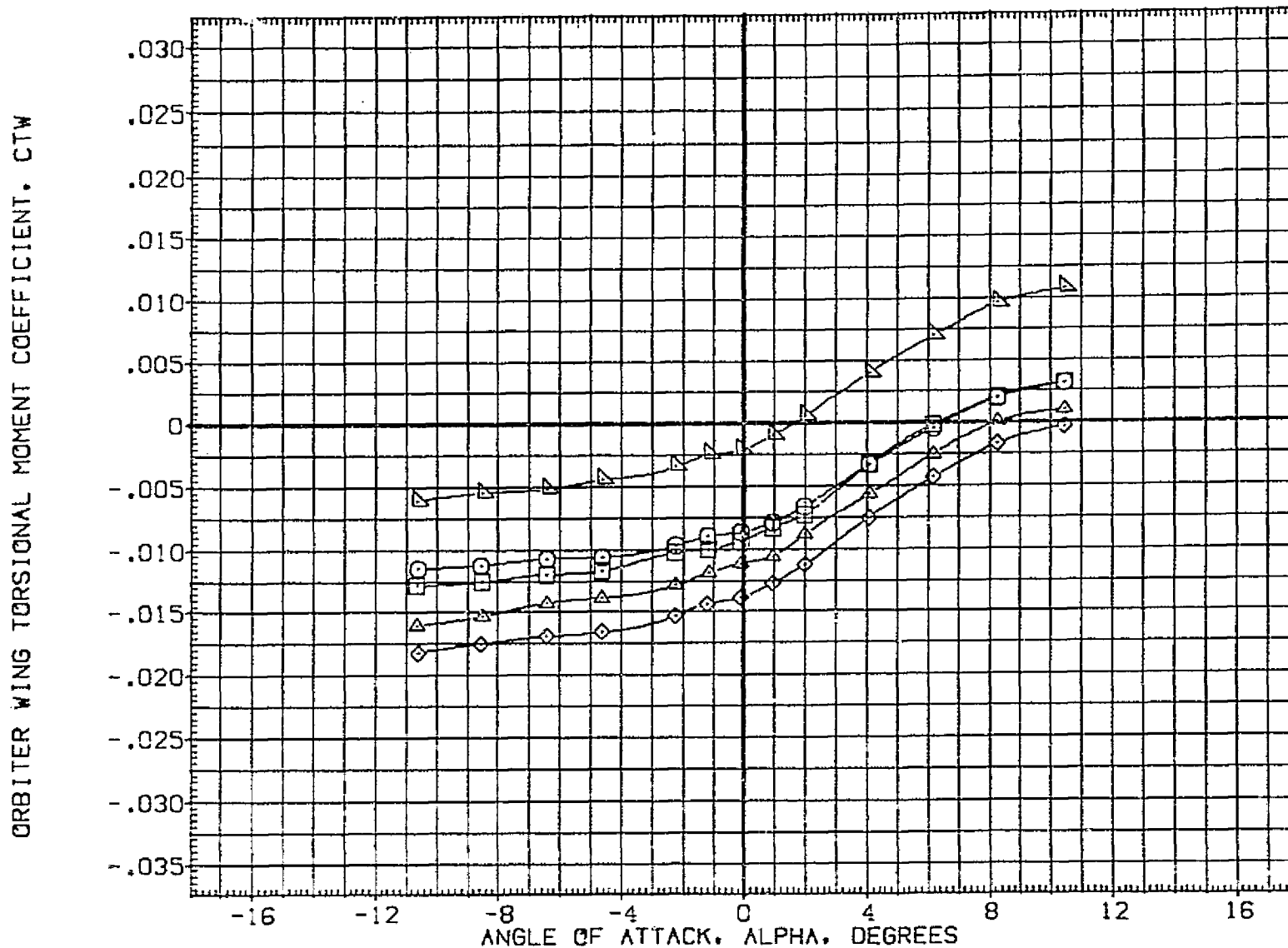


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(R-03)	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(R-07)	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000 INCHES
(R-14)	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000 INCHES
(R-16)	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000 IN. XT
(R-15)	LPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

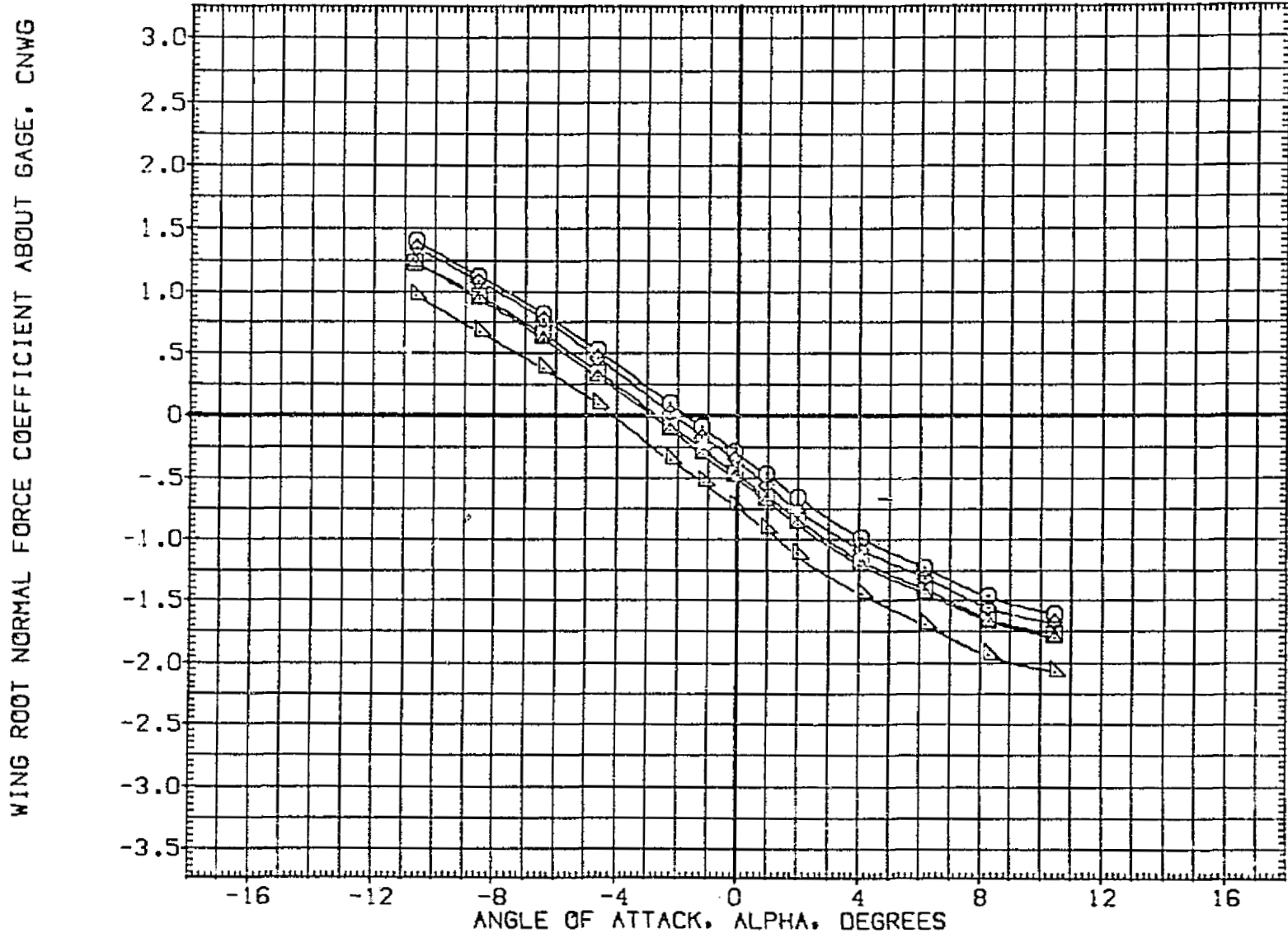


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS
 (A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION
(R-0403)	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	LREF 2690.0000 SQ.FT.
(R-0417)	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF 1290.3000 INCHES
(R-0414)	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF 1290.3000 INCHES
(R-0416)	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP 976.0000 IN. XT
(R-0415)	UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

ORBITER WING BENDING MOMENT COEFFICIENT, CBW

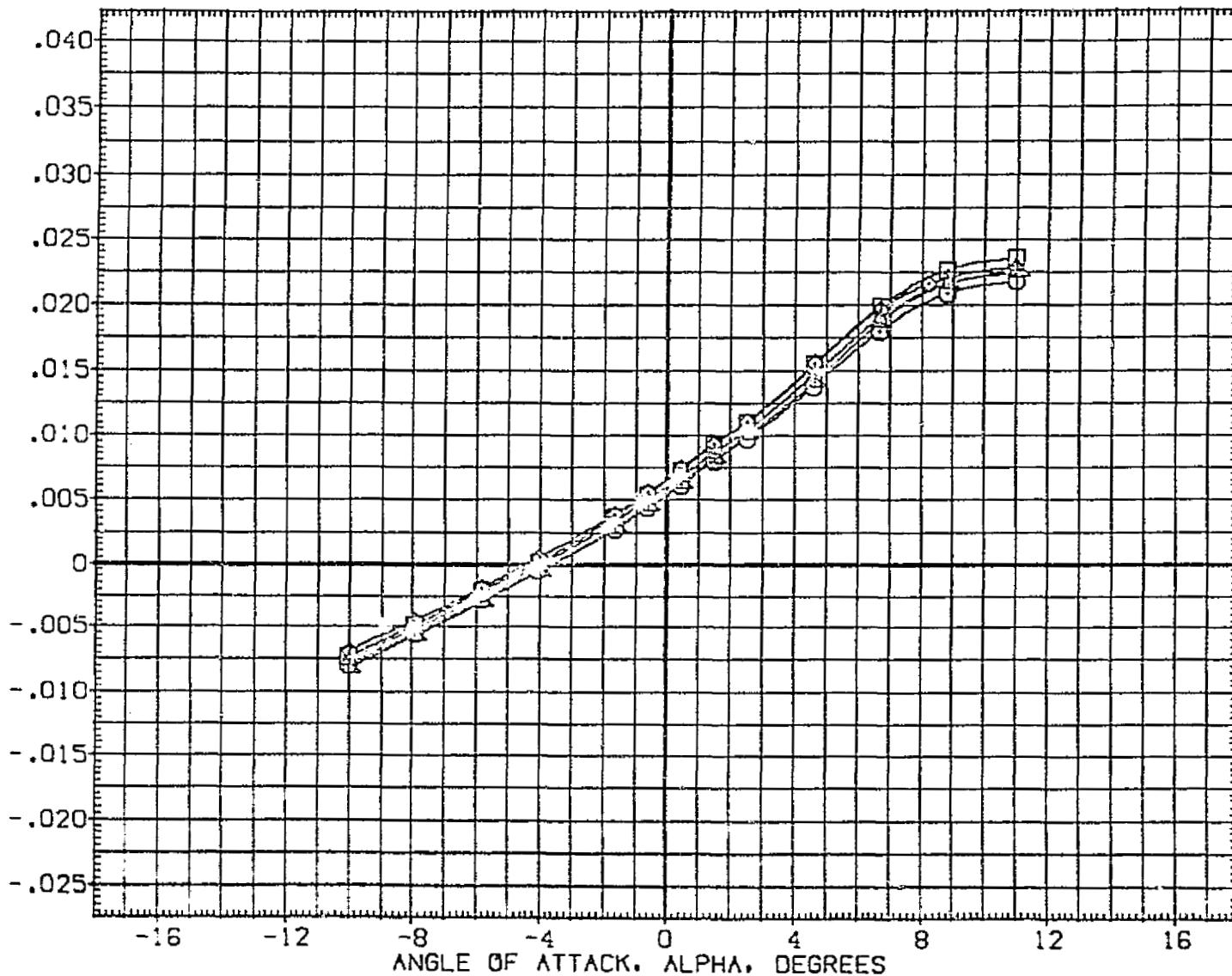


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION		
(P-8*03)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000	50. FT.
(P-8*17)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000	INC. IN.
(P-8*14)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000	INC. IN.
(P-8*16)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000	IN. XT
(P-8*15)	CPVT 1088/1119 (A-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000	IN. YT
						ZMRP	400.0000	IN. ZT
						SCALE	.0100	

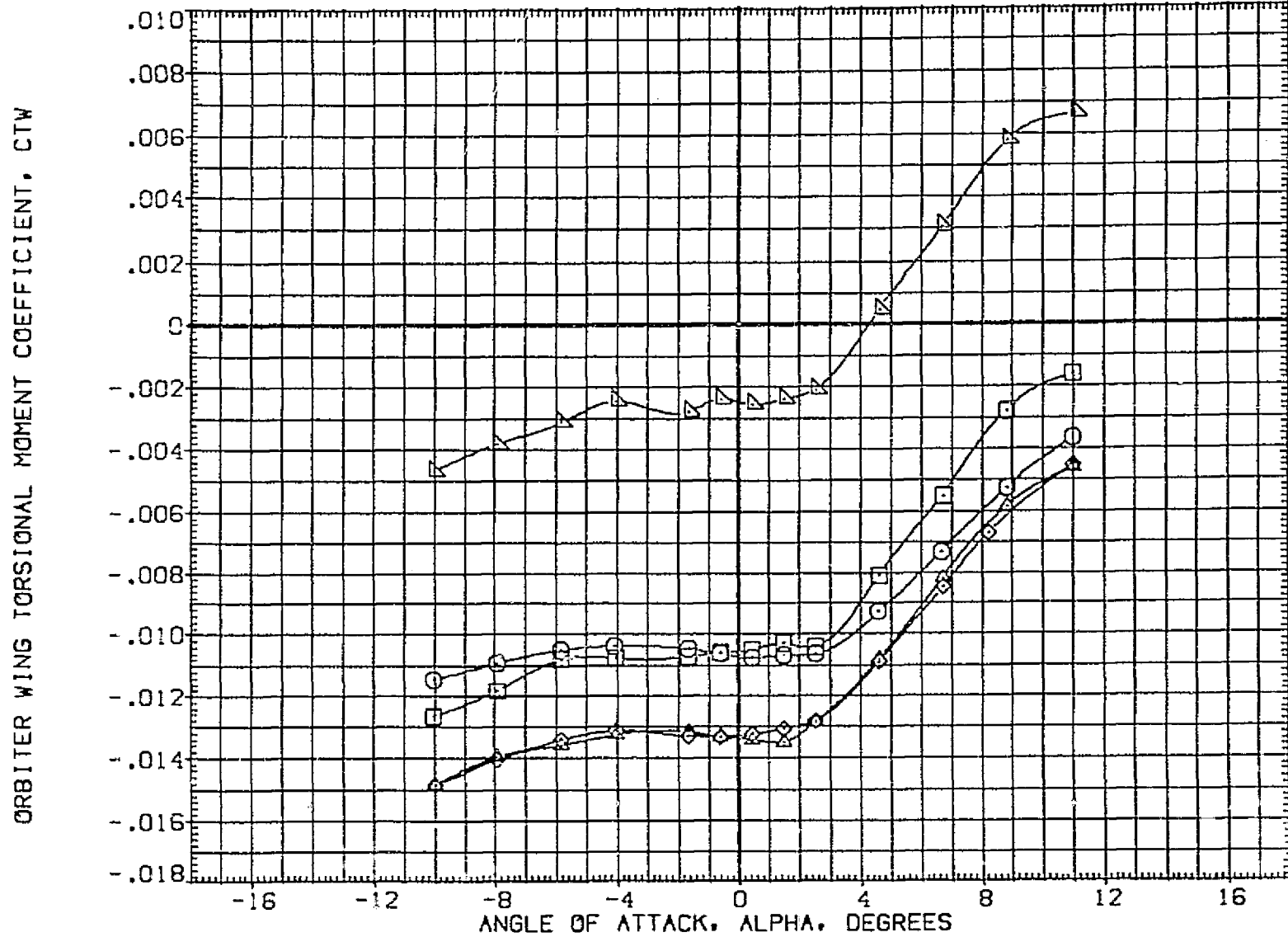


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R1	ELV-R0	REFERENCE INFORMATION	
(R-8-103)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ.FT.
(R-8-117)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	4.000	4.000	.000	LREF	1290.3000 INCHES
(R-8-114)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	.000	8.000	8.000	.000	BREF	1290.3000 INCHES
(R-8-116)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-4.000	8.000	8.000	-4.000	XMRP	976.0000 IN. XT
(R-8-115)	UPVT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7	-8.000	8.000	8.000	-8.000	YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

WING ROOT NORMAL FORCE COEFFICIENT ABOUT GAGE, CNWG

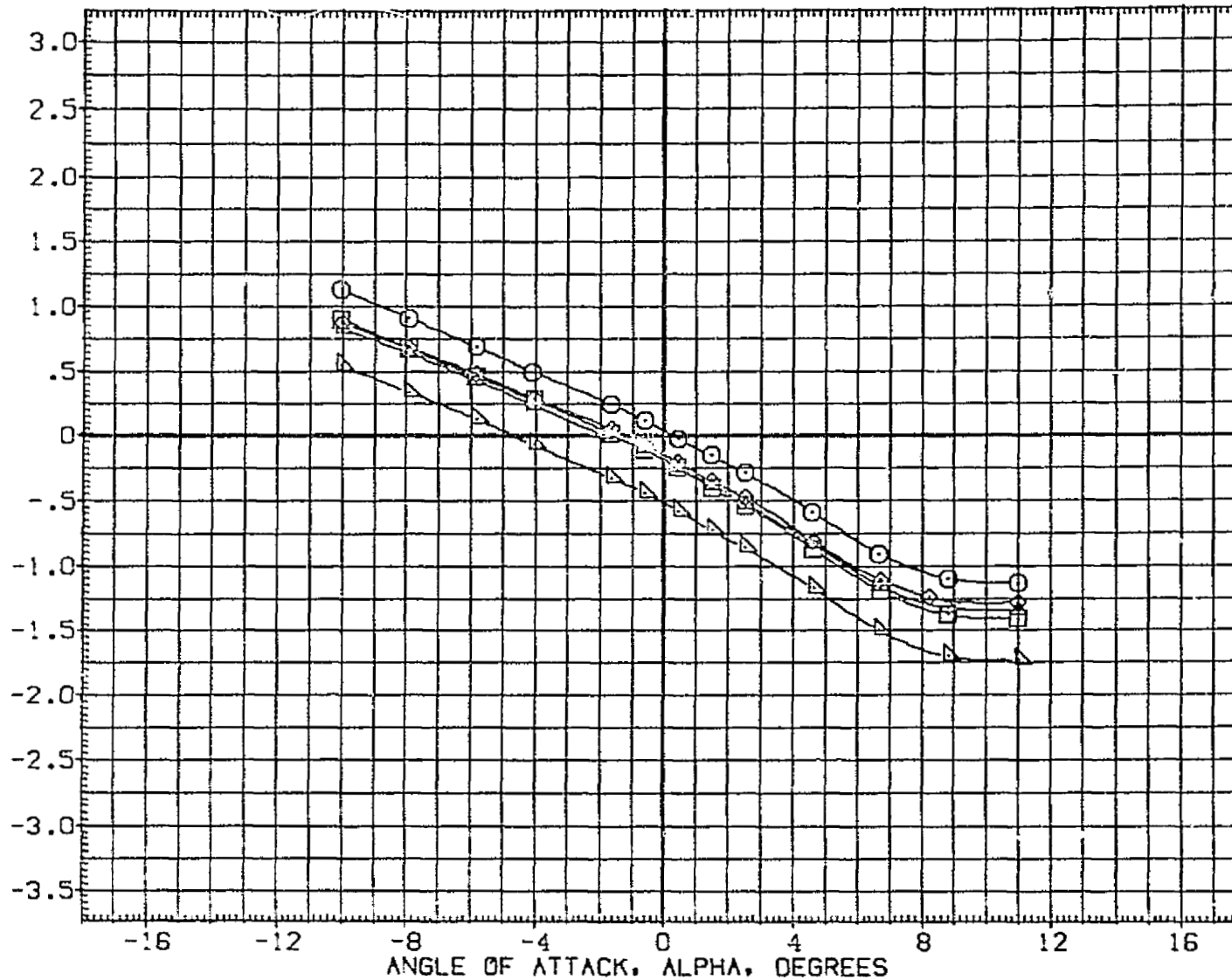


FIGURE 11 EFFECT OF ELEVON DEFLECTIONS ON ORBITER WING LOADS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION
(R-6Y04) ○	LPVT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
						LREF 1290.3000 INCHES
						BREF 1290.3000 INCHES
						XMRP 976.0000 IN. XT
						YMRP .0000 IN. YT
						ZMRP 400.0000 IN. ZT
						SCALE .0100

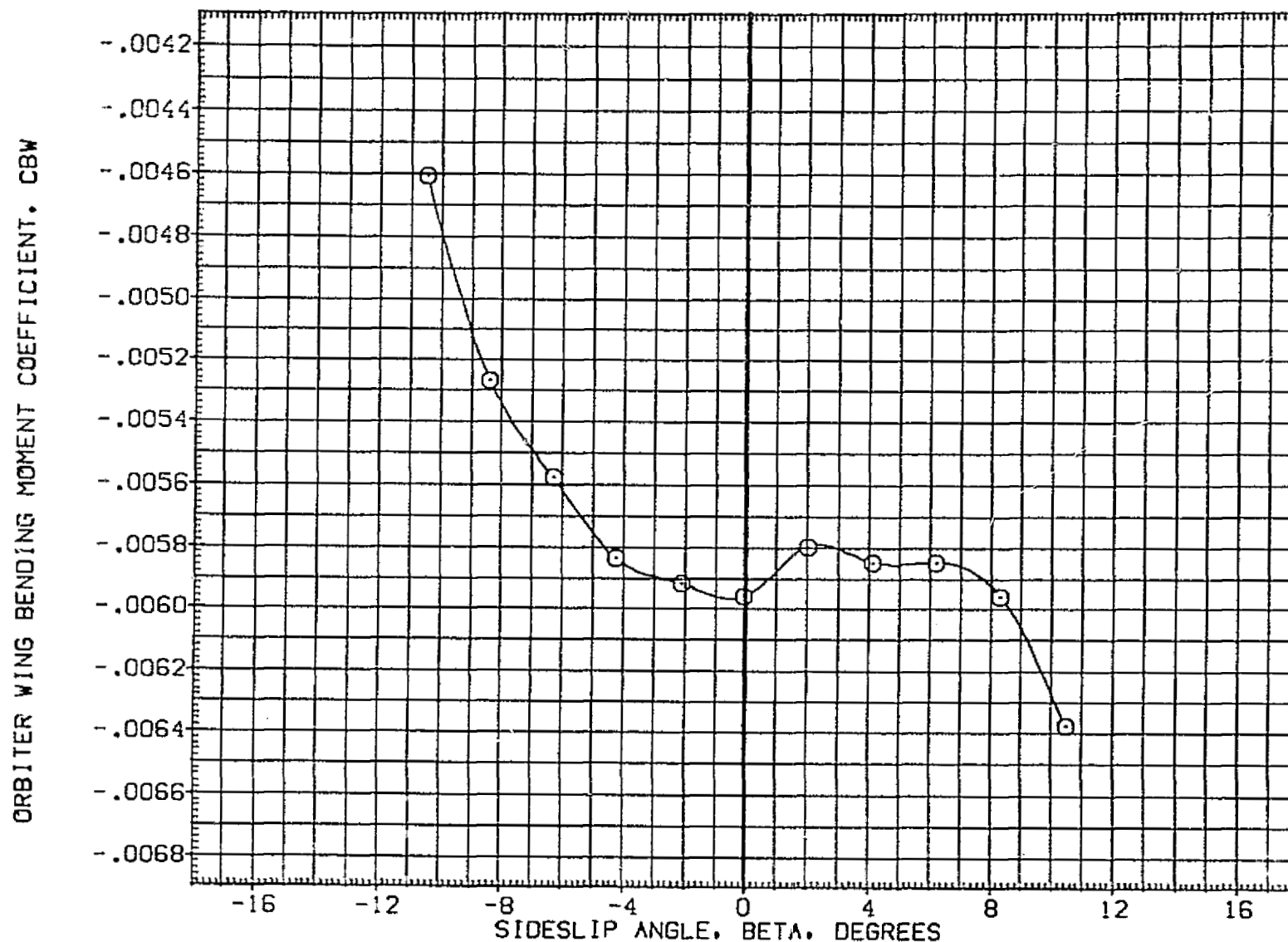


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS

(A)MACH = 1.60

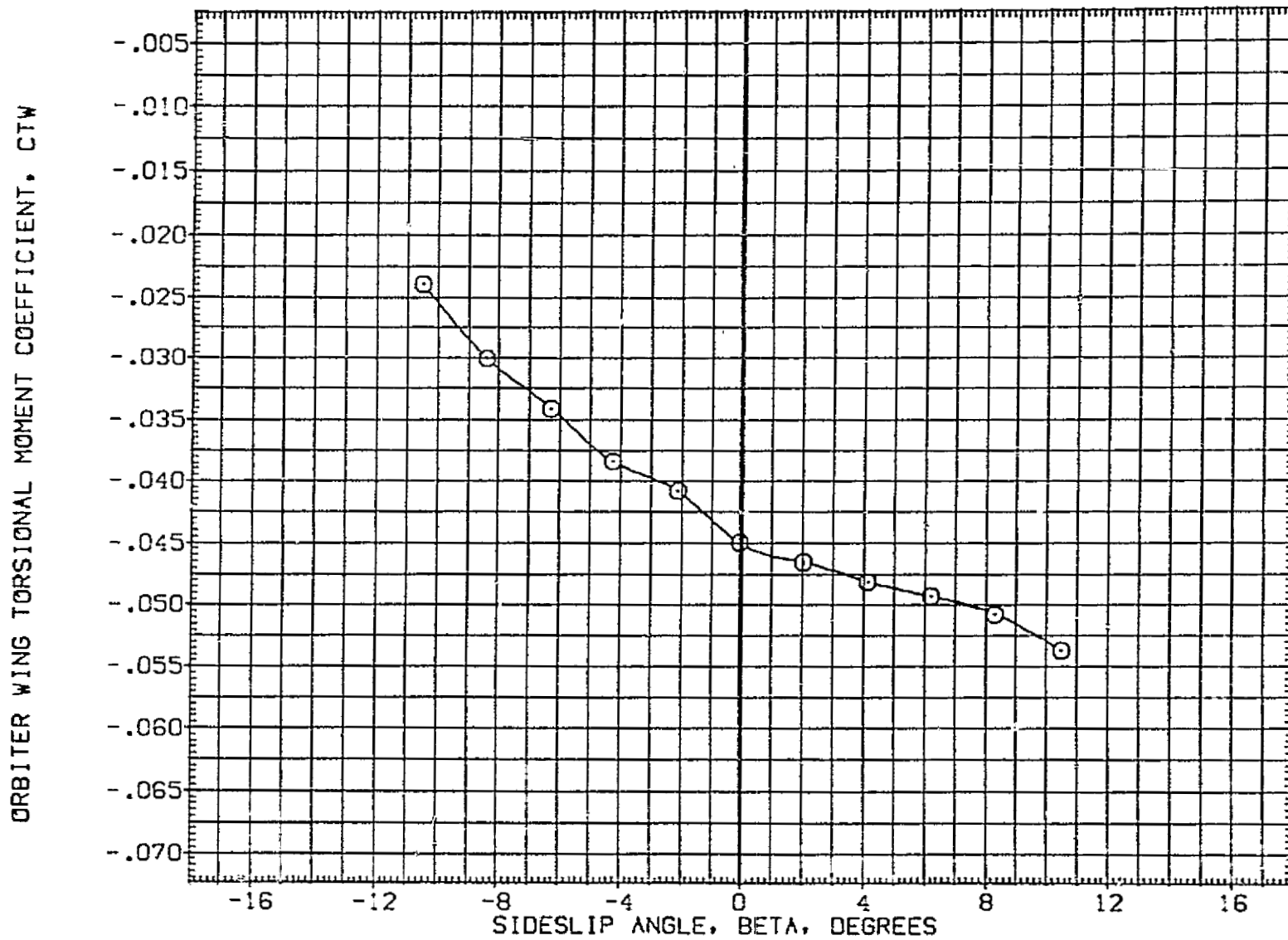


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-L0	ELV-L1	ELV-R	ELV-R0	REFERENCE INFORMATION	
(R-8404) ○	LPYT 1088/1119 (1A-44) CONFIGURATION 02/14/57	.000	.000	.000	.000	SREF	2690.0000 50.FT.
						LREF	1290.3000 INCHES
						BREF	1290.3000 INCHES
						XMRP	976.0000 IN. XT
						YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0:00

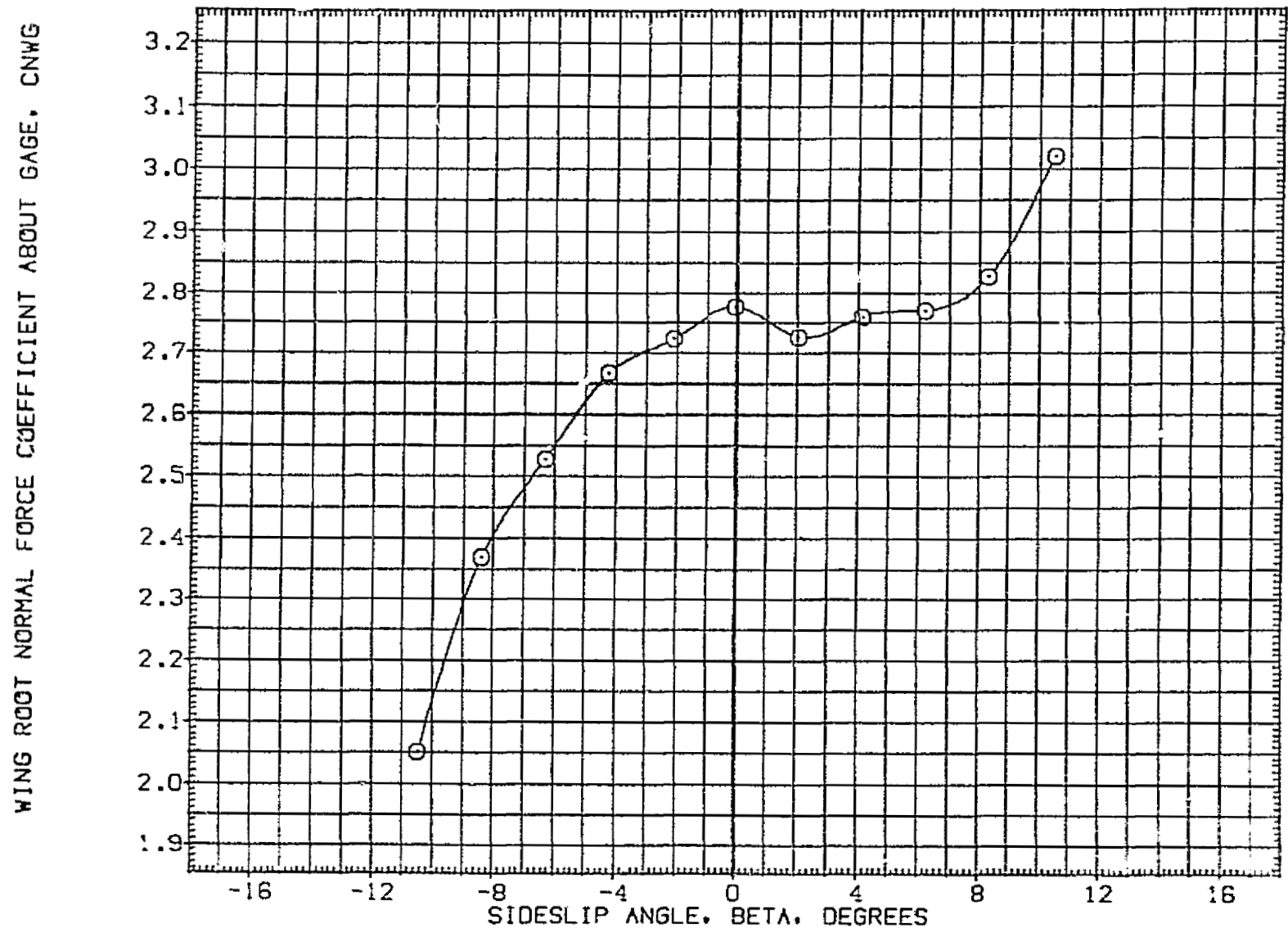


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS

(A)MACH = 1.60

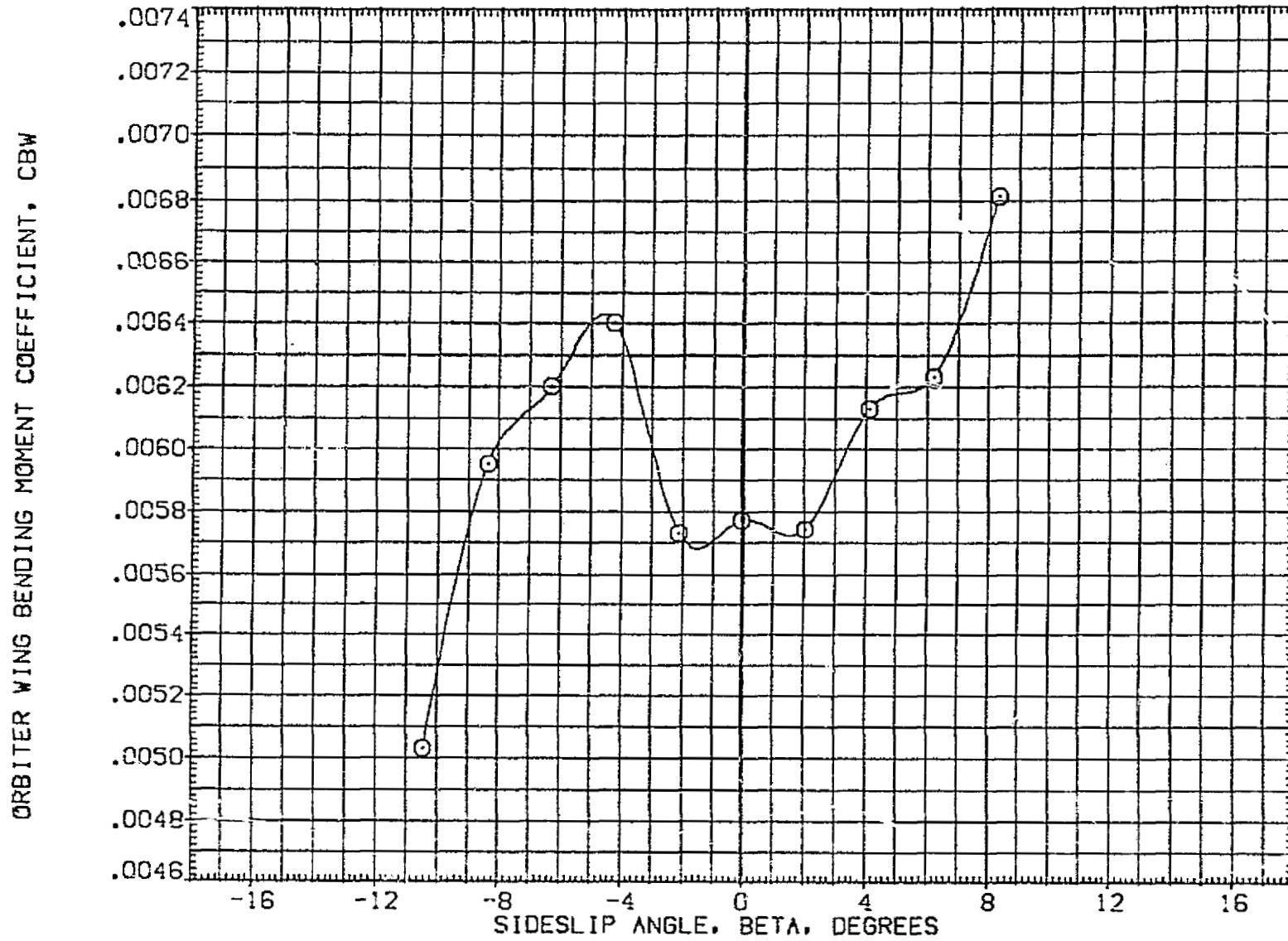


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R-8'04) O UPVT 1088/1119 (A-44) CONFIGURATION 02/T4/57

ELV-LD ELV-LI ELV-RI ELV-RS
 .000 .000 .000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 1290.3000 INCHES
 BREF 1290.3000 INCHES
 XMRP 976.0000 IN. XT
 YMRP .0000 IN. YT
 ZMRP 400.0000 IN. ZT
 SCALE .0100

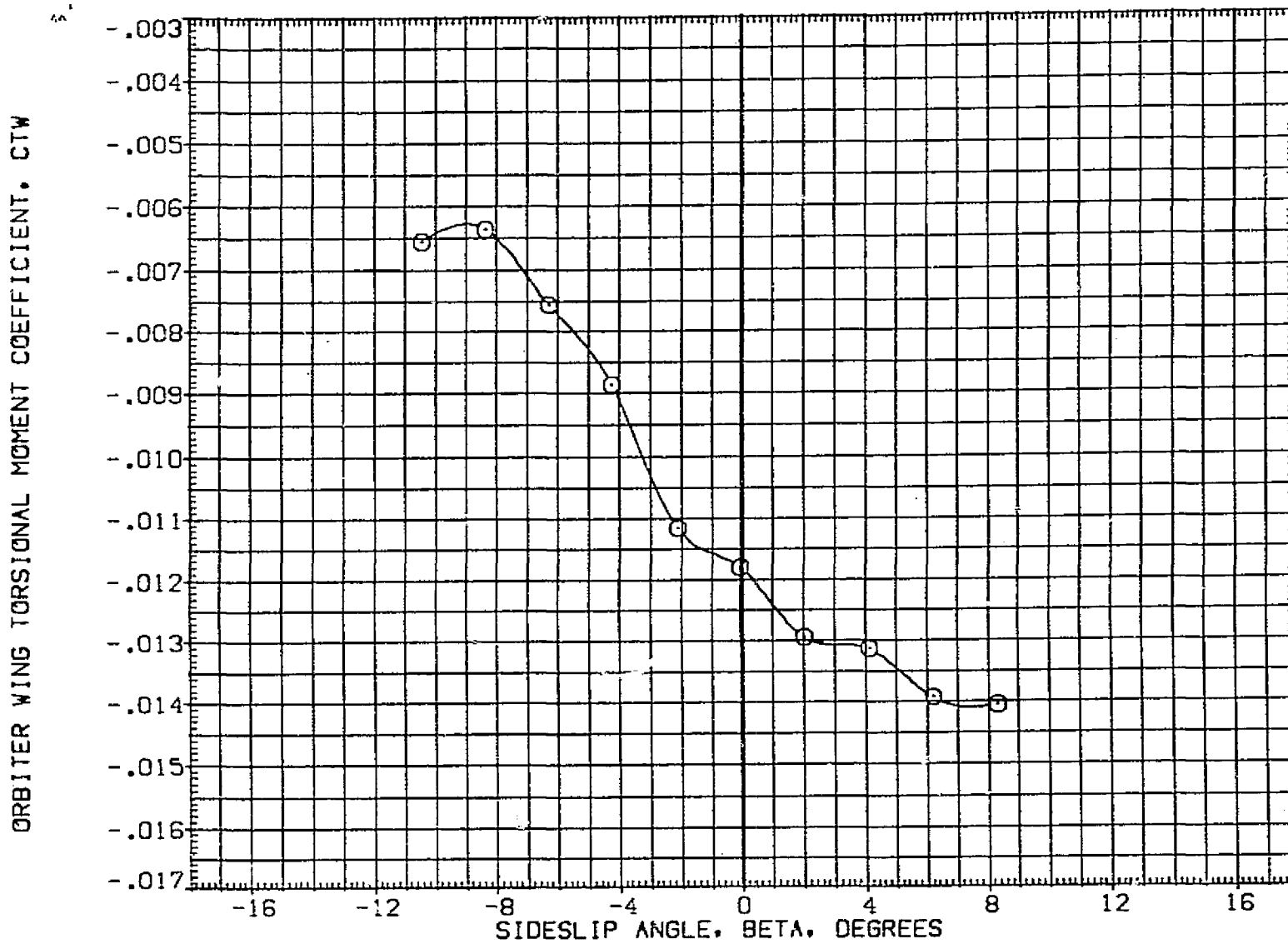


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO	REFERENCE INFORMATION	
(R-04)	UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7	.000	.000	.000	.000	SREF	2690.0000 SQ. FT.
						LREF	1290.3000 INCHES
						BREF	1290.3000 INCHES
						XMRP	976.0000 IN. XT
						YMRP	.0000 IN. YT
						ZMRP	400.0000 IN. ZT
						SCALE	.0100

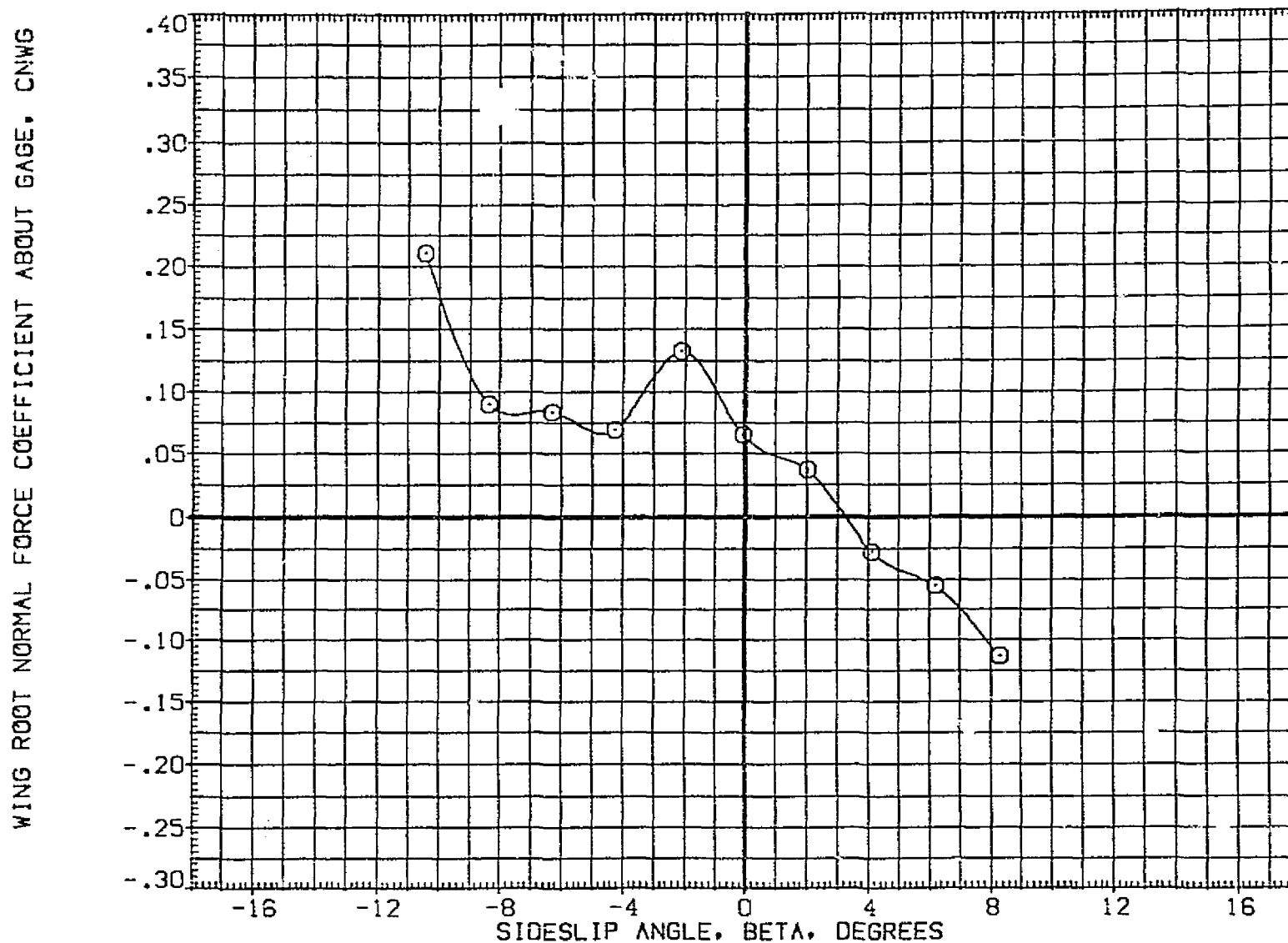


FIGURE 12 EFFECT OF SIDESLIP ANGLE ON ORBITER WING LOADS

(B)MACH = 2.00

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (NH8M15)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	DATASET	ELV-LO	DATASET	ELV-LO	SREF	SO.FT.	
○	-8.000	1.600	.000	NH8M15	-8.000	NH8M16	-4.000	2690.0000	INCHES	
□	-4.000	8.000	8.000	NH8M15	-8.000	NH8M16	-4.000	1290.3000	INCHES	
◇	.000	.000	.000	NH8M14	.000			1290.3000	IN. XT	
△	4.000	.000	.000					976.0000	IN. YT	
▽	8.000	.000	.000					.0000	IN. ZT	
								ZMRP	400.0000	IN. ZT
								SCALE	.0100	

ORBITER WING BENDING MOMENT COEFFICIENT, CBW

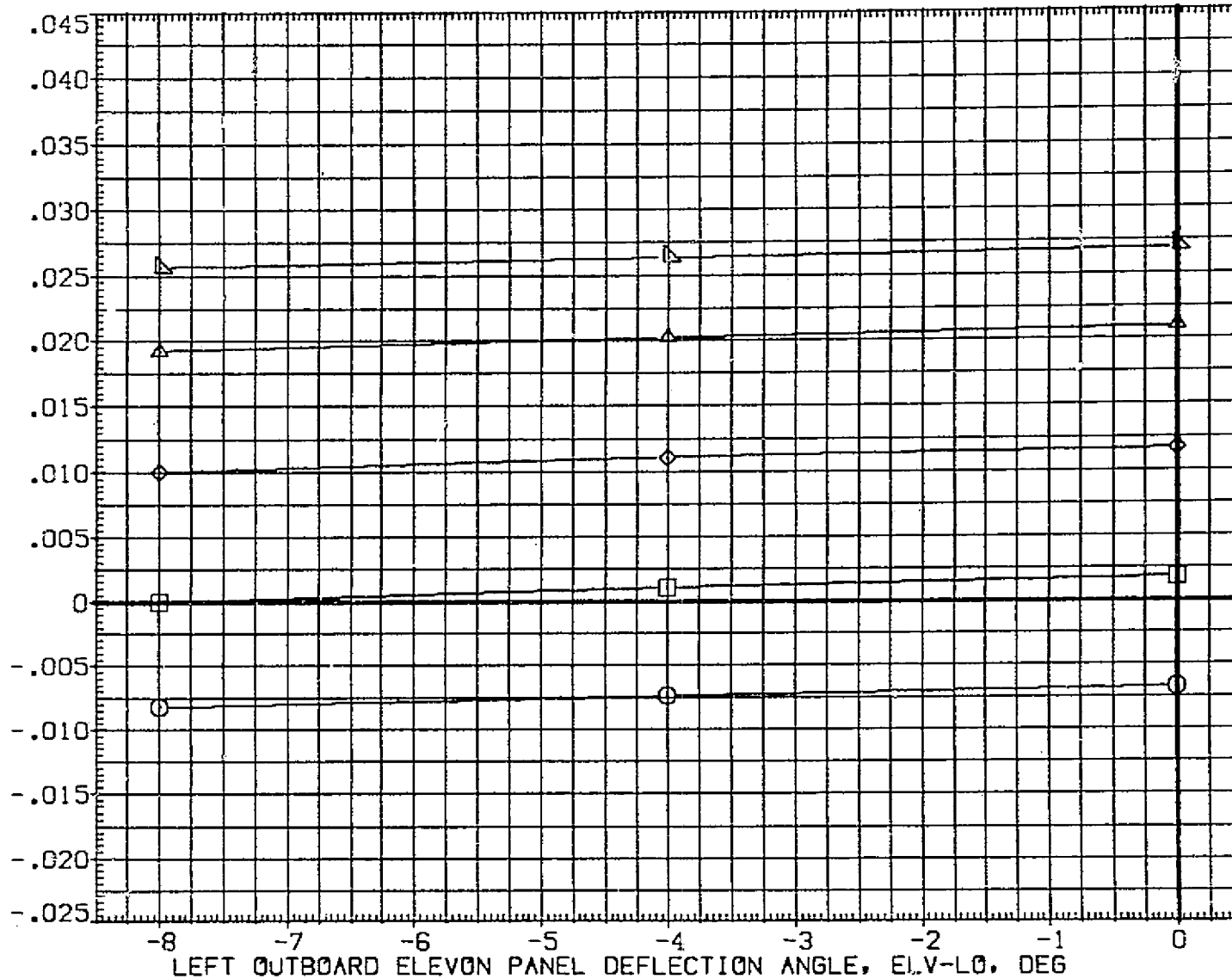


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BETA	DATASET	ELV-L0	DATASET	ELV-L0	SREF	SO, FT.
○	-8.000		1.600		.000	NH8M15	-8.000		2690.0000	80. FT.
□	-4.000		8.000		8.000	NH8M15	-8.000		1290.3000	INCHES
◇	.000		.000		.000	NH8M14	.000		1290.3000	INCHES
△	4.000		.000		.000	NH8M14	.000		976.0000	IN. XT
▽	8.000		.000		.000	NH8M14	.000		YMRP	IN. YT
									ZMRP	IN. ZT
									SCALE	.0100

ORBITER WING TORSIONAL MOMENT COEFFICIENT, CTW

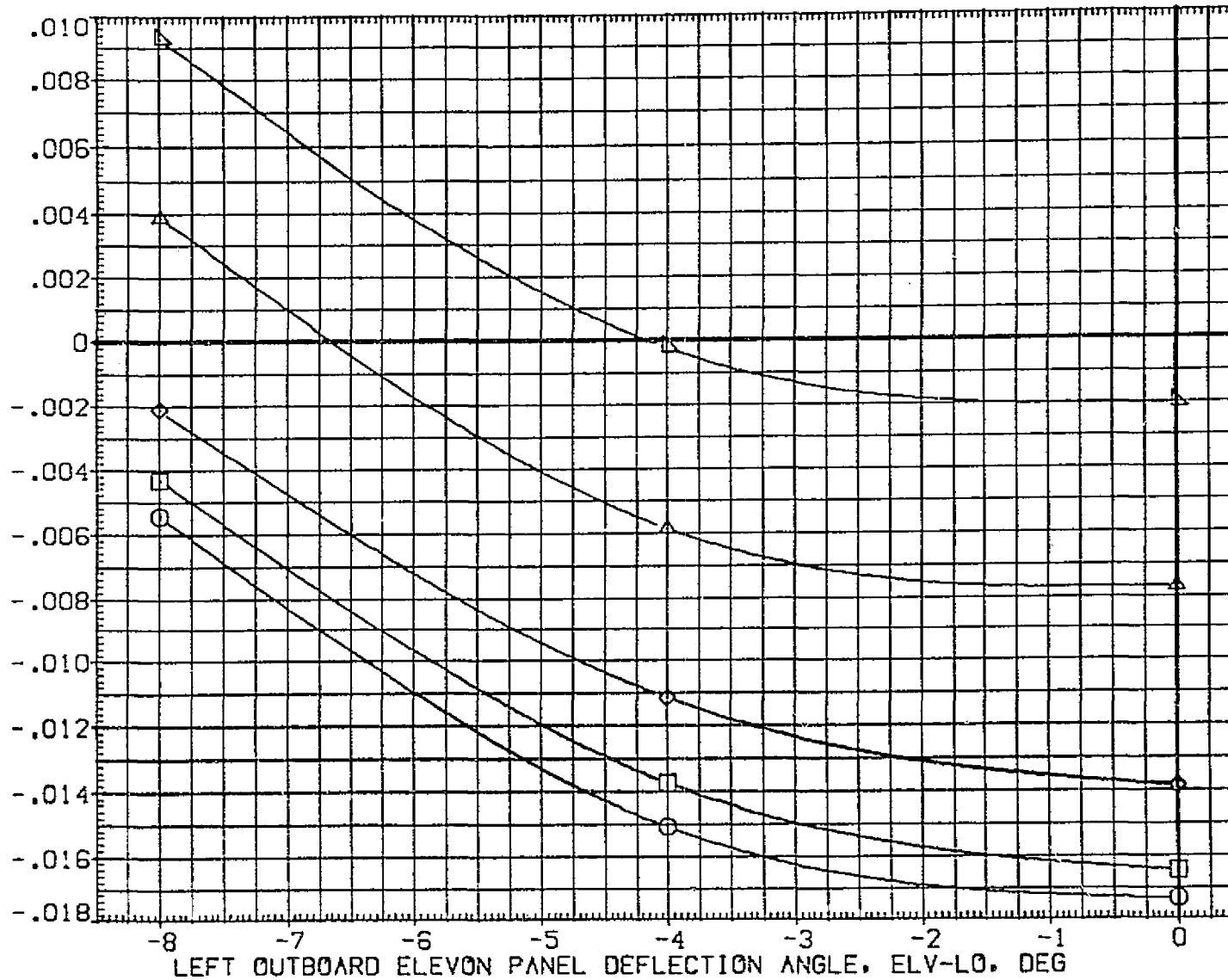


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (NH8M15)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
○	-8.000	MACH	1.600	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50.FT.
□	-4.000	ELV-L1	8.000	ELV-R1	8.000	NH8M15	-8.000	NH8M16	-4.000	LREF	1290.3000	INCHES
◇	.000	FLODER	.000	SPOBRK	.000	NH8M14	.000			BREF	1290.3000	INCHES
△	4.000	BOFLAP	.000							XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

WING ROOT NORMAL FORCE COEFFICIENT ABOUT GAGE, CNWG

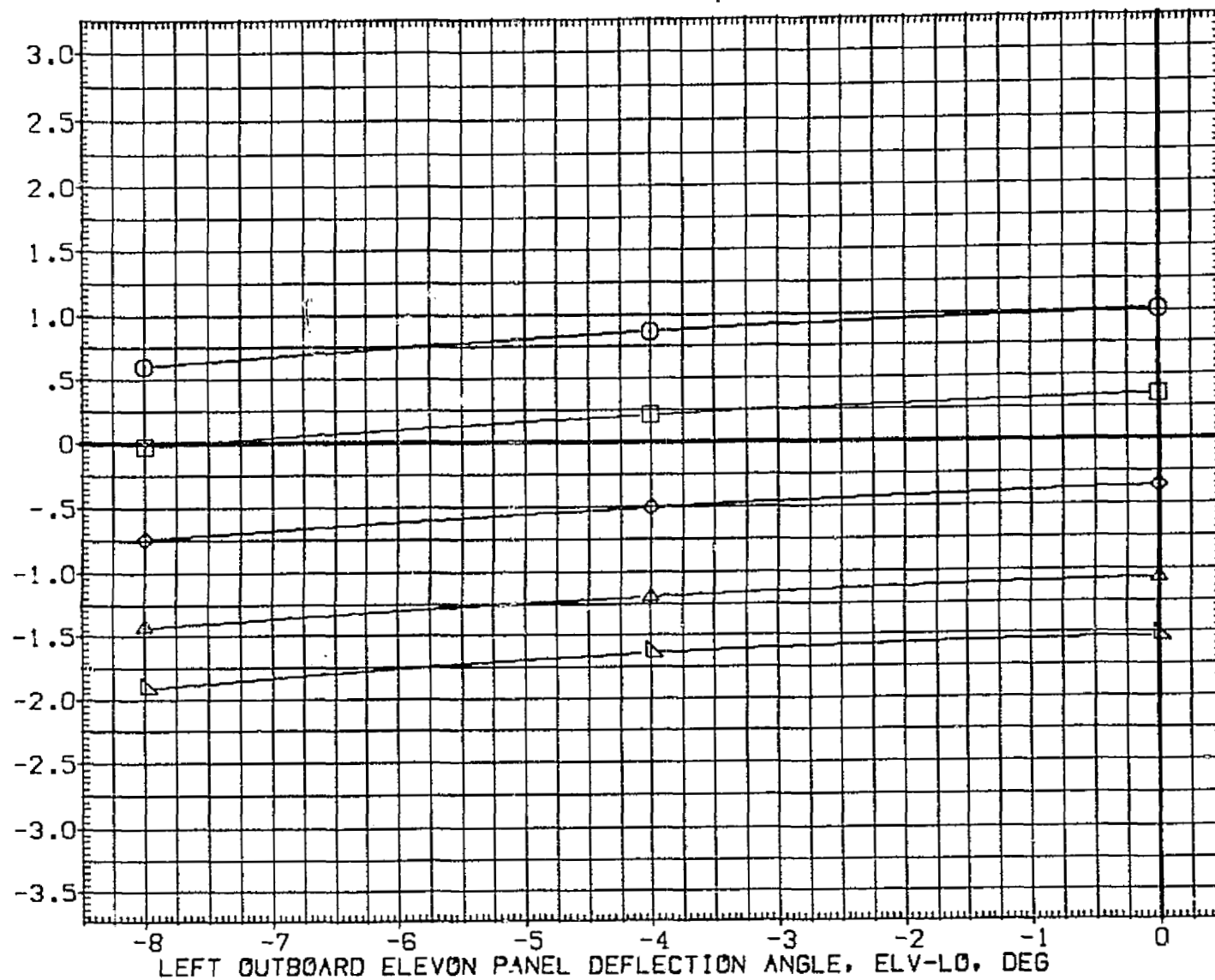


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BETA	DATASET	ELV-LO	DATASET	ELV-LO	SREF	SO.FT.
○	-8.000		2.000	BETA	.000		ELV-LO		2690.0000	50.FT.
□	-4.000	ELV-LI	8.000	ELV-RI	8.000	NH8M15	-8.000	NH8M16	1290.3000	INCHES
◇	.000	RUDDER	.000	SPOBRK	.000	NH8M14	.000		1290.3000	INCHES
△	4.000	BOFLAP	.000						976.0000	IN. XT
▽	8.000								.0000	IN. YT
									400.0000	IN. ZT
									SCALE	.0100

ORBITER WING BENDING MOMENT COEFFICIENT, CBW

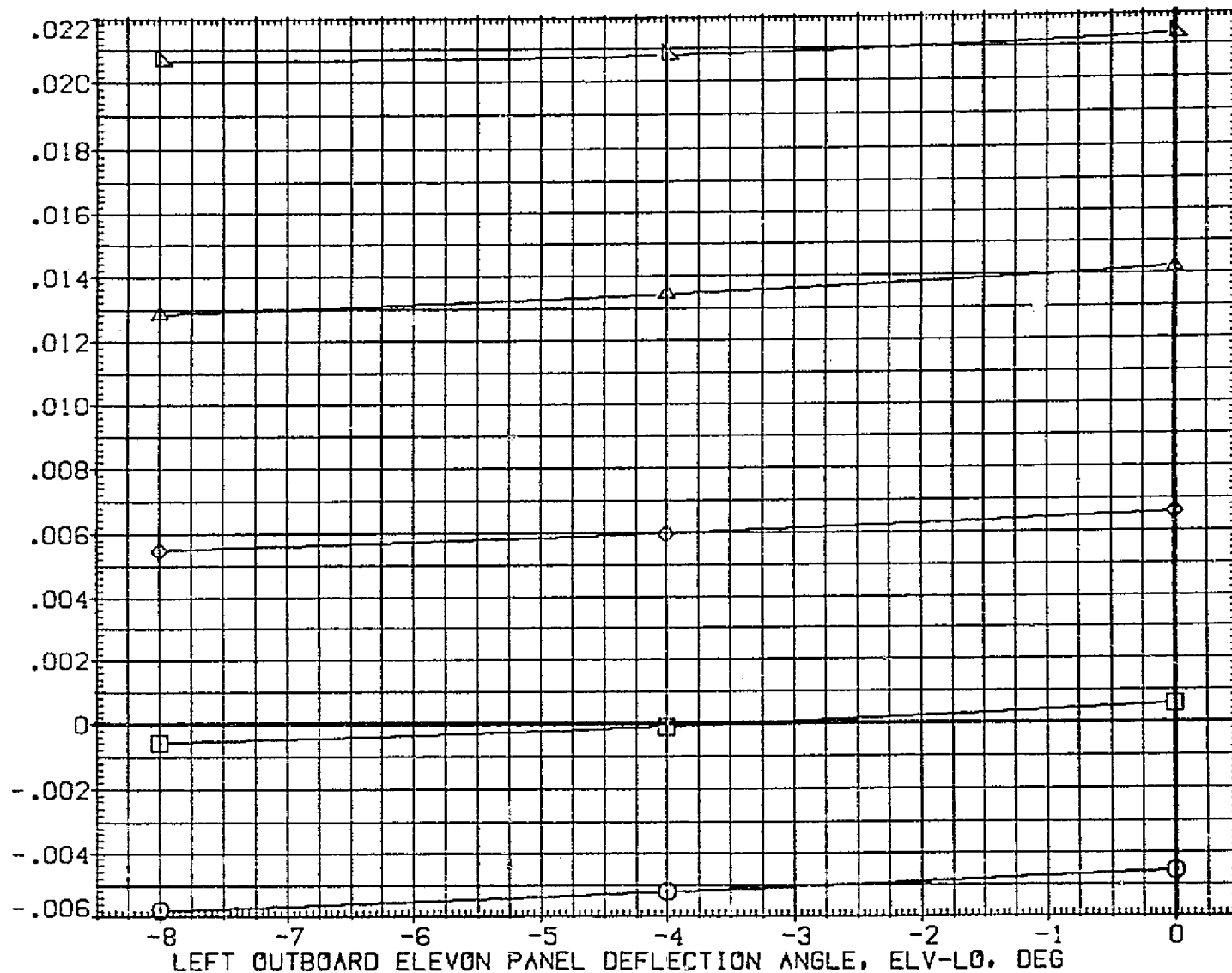


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

SYMBOL	ALP _{min}	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
○	-8.000	MACH	2.000	BETA	.000	DATASET	ELV-L0	DATASET	ELV-L0	SREF	2690.0000	50. FT.
□	-4.000	ELV-L1	8.000	ELV-R1	8.000	NH8M15	-8.000	NH8M16	-4.000	LREF	1290.3000	INCHES
◇	.000	RLODER	.000	SPOBRK	.000	NH8M14	.000			BREF	1290.3000	INCHES
△	4.000	BOFLAP	.000							XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

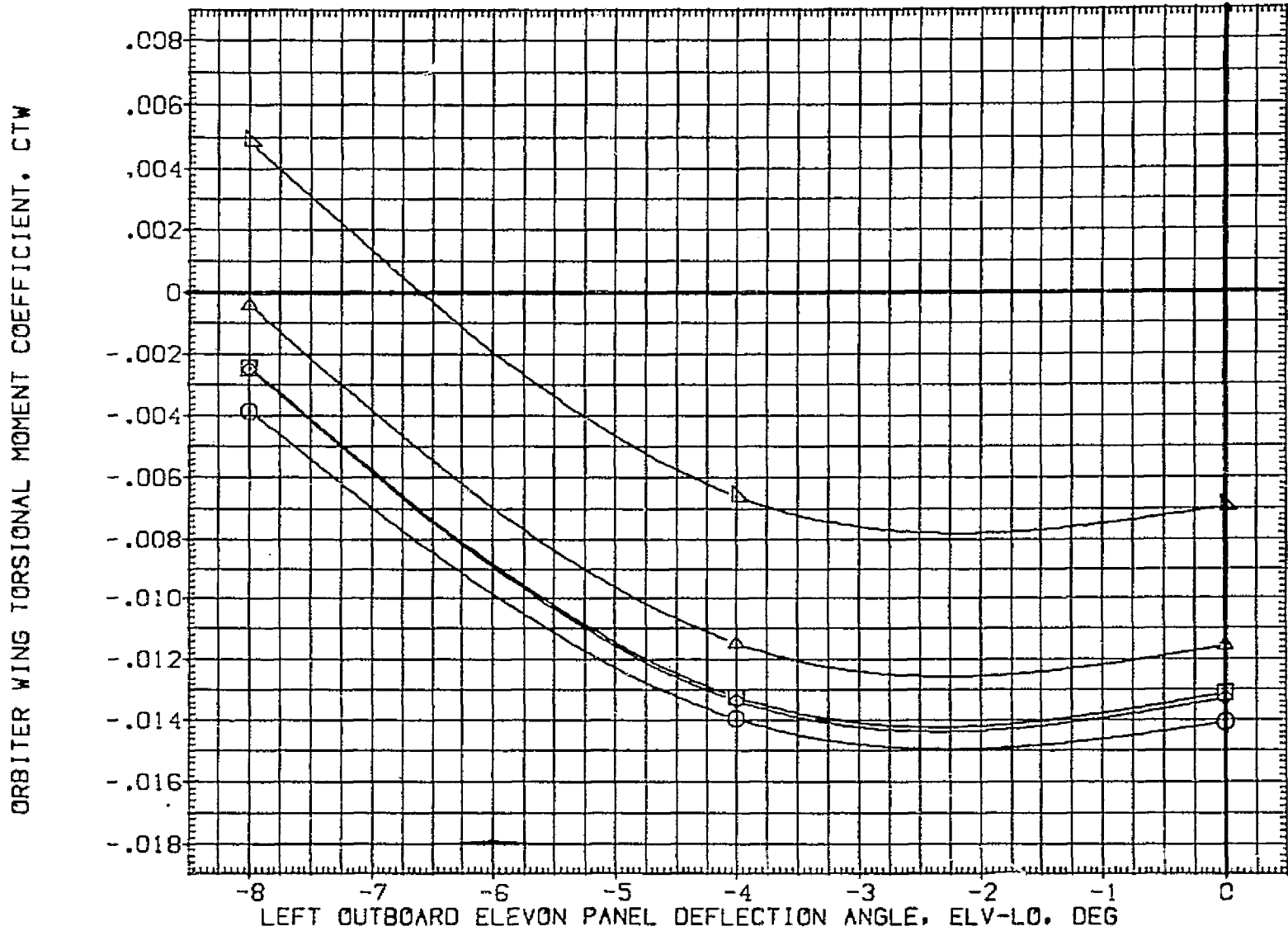


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	ELV-LI	ELV-RI	DATASET	ELV-L0	DATASET	ELV-L0	SREF	INCHES
○	-8.000	2.000	.000	8.000	NH8M15	-8.000	NH8M16	-4.000	2690.0000	50. FT.	
□	-4.000	8.000	.000	8.000	NH8M15	-8.000	NH8M16	-4.000	1290.3000	INCHES	
◇	.000	.000	.000	8.000	NH8M14	.000			1290.3000	INCHES	
△	4.000	.000	.000						976.0000	IN. XT	
▽	8.000	.000	.000						400.0000	IN. YT	
									SCALE	.0100	

WING ROOT NORMAL FORCE COEFFICIENT ABOUT GAGE, CNWG

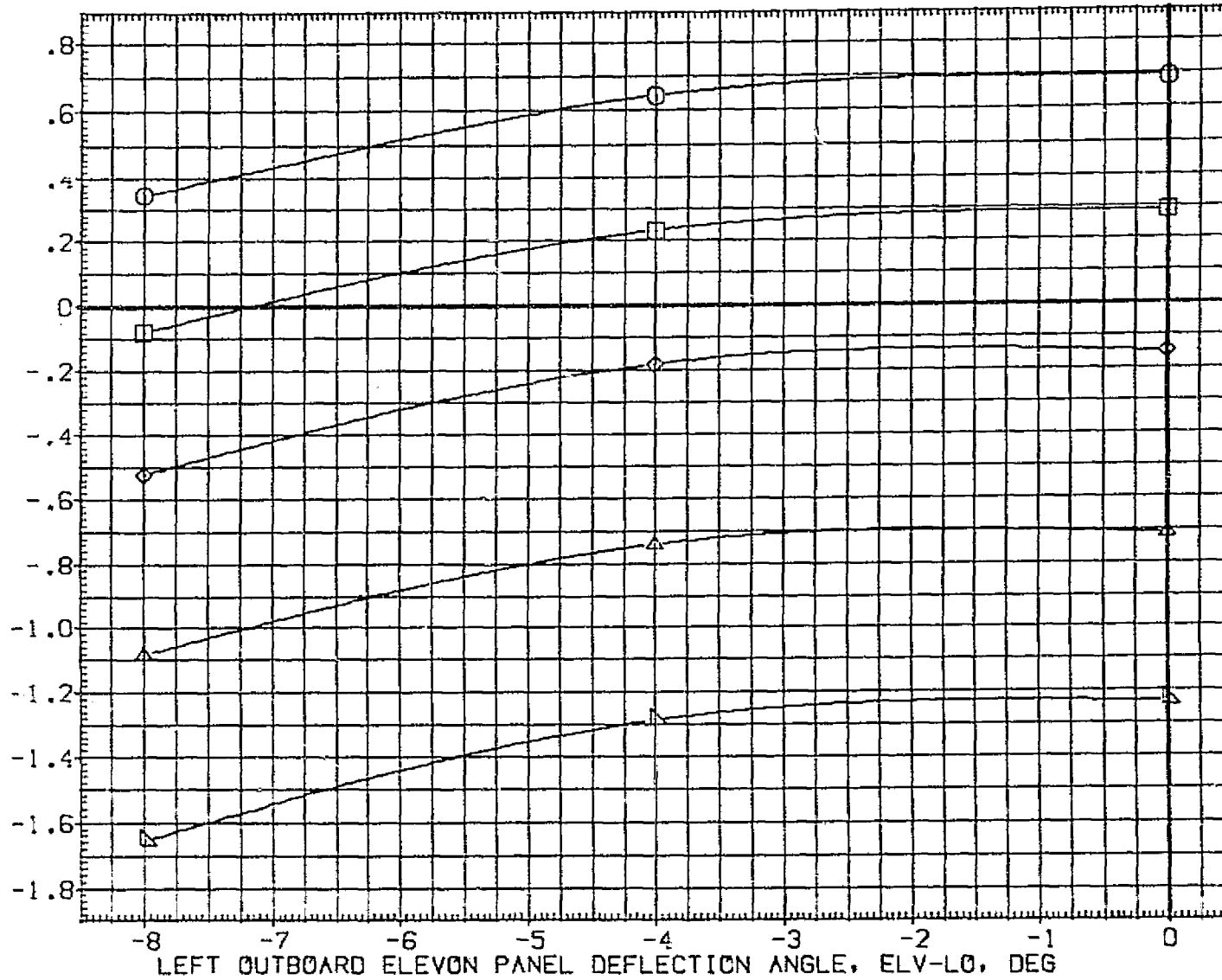


FIGURE 13 ORBITER WING LOADINGS AS A FUNCTION OF OUTBOARD ELEVON DEFLECTION

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (NH8M03)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	ELV-RO	ELV-LI	ELV-LI	ELV-LI	SREF	SO. FT.		
○	-8.000	1.500	.000	.000	DATASET	N-8M03	.000	2690.0000	SO. FT.		
△	-4.000	.000	.000	.000	ELV-LI	N-8M17	4.000	1290.3000	INCHES		
◇	.000	.000	.000	.000	N-8M14	8.000		1290.3000	INCHES		
▽	4.000	.000	.000	.000				976.0000	IN. XT		
∇	8.000	.000	.000	.000				.0000	IN. YT		
								400.0000	IN. ZT		
								SCALE	.0100		

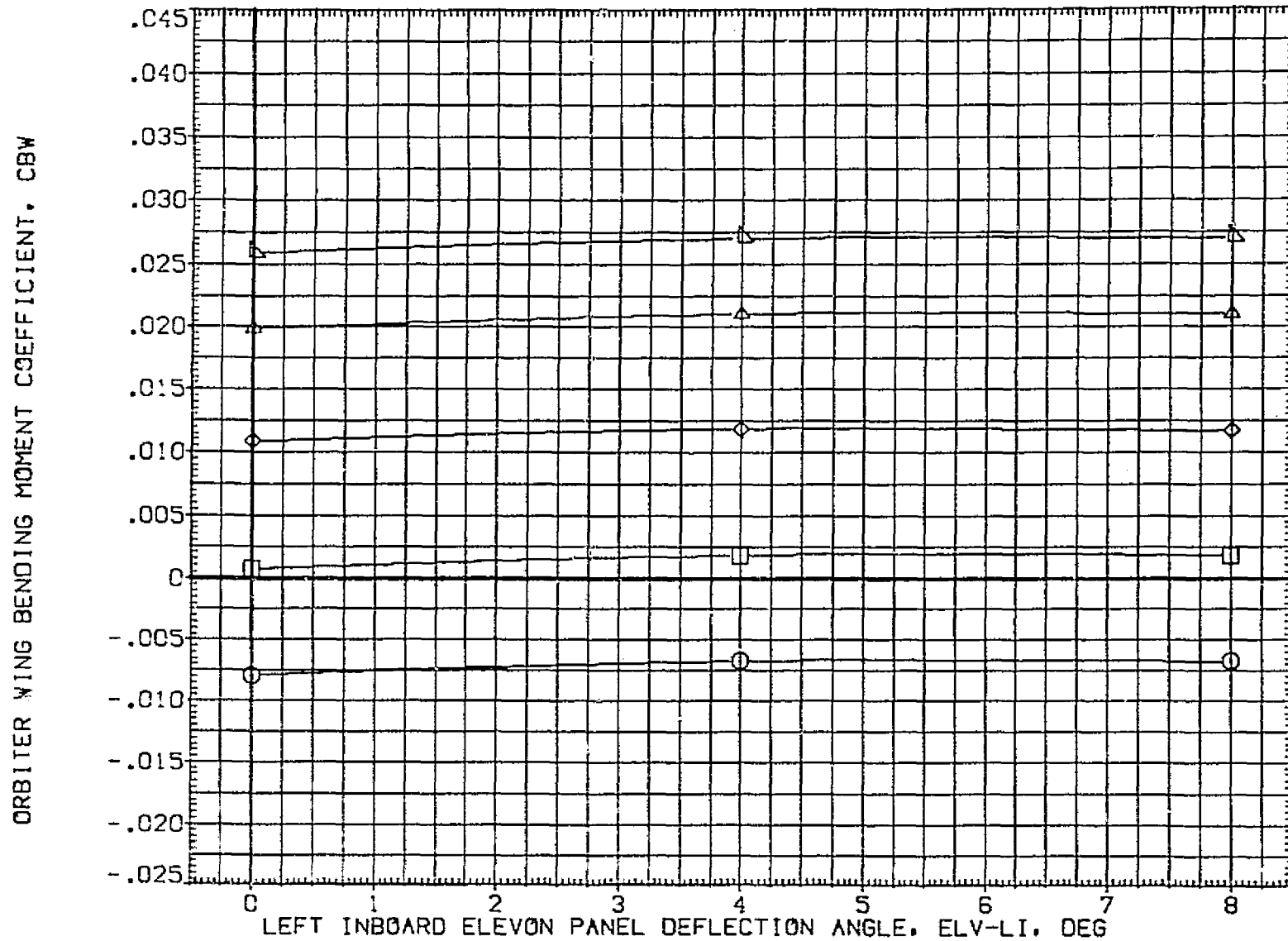


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
	Value	Unit	Value	Unit	Value	Unit	Value	Value	Value	Unit		
□◇○□	-8.000	MACH	1.600	BETA	.000	DATASET	ELV-L1	DATASET	ELV-L1	SREF	2690.0000	50.FT.
	-4.000	ELV-L0	.000	ELV-R0	.000	N-6M03	.000	N-6M17	4.000	LREF	1290.3000	100.INCHES
	.000	RUDDER	.000	SPOILER	.000	N-6M14	8.000			SREF	1290.3000	100.INCHES
	4.000	BOFLAP	.000							XMRP	976.0000	78.IN. XT
	8.000									YMRP	.0000	100.IN. YT
										ZMRP	400.0000	100.IN. ZT
										SCALE	.0100	

ORBITER WING TORSIONAL MOMENT COEFFICIENT, CTW

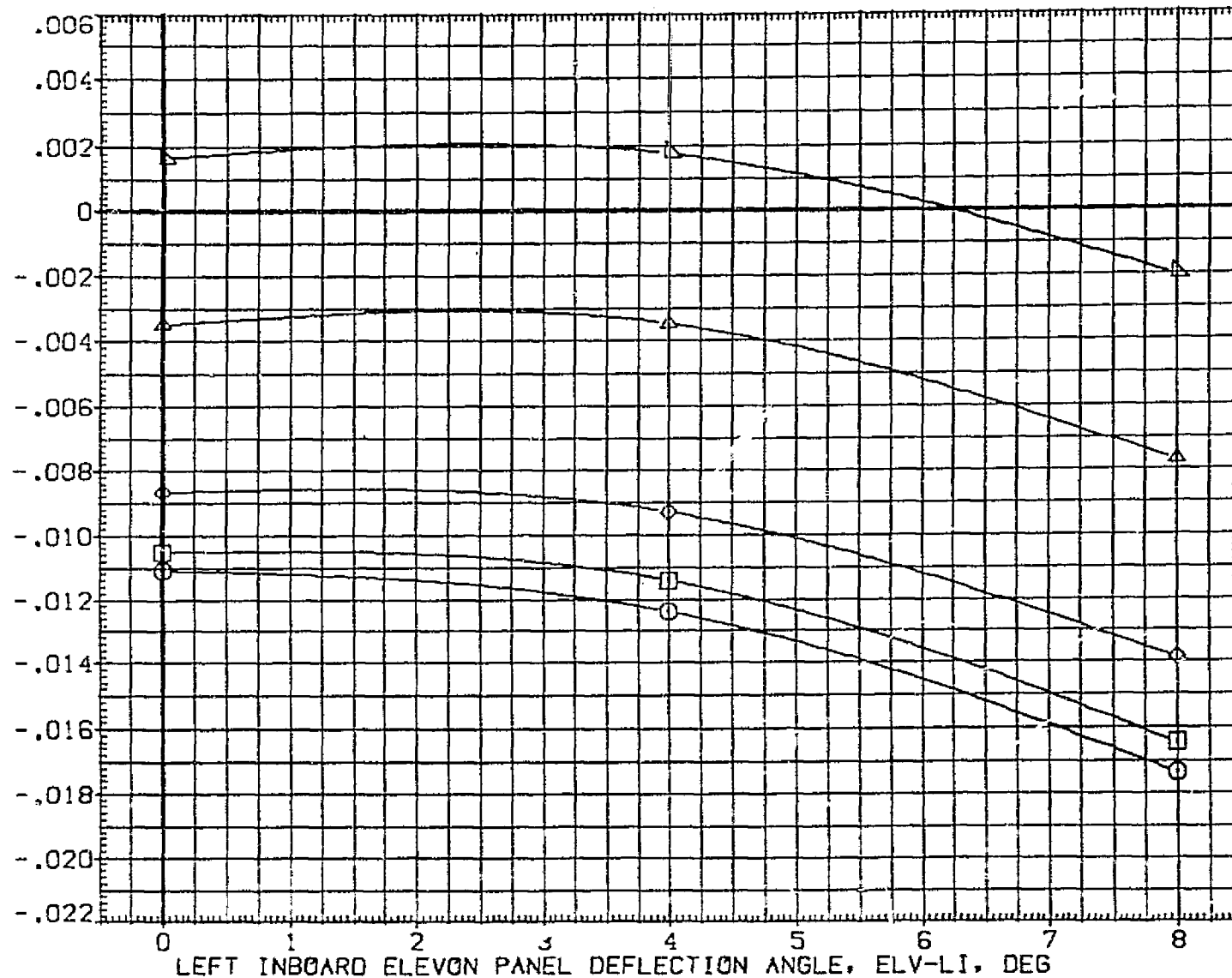


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (NH8M03)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
○	-8.000	MACH	1.600	BETA	.000	DATASET	ELV-LI	DATASET	ELV-LI	SREF	2650.0000	50. FT.
□	-4.000	ELV-LD	.000	ELV-RD	.000	NH8M03	.000	NH8M17	4.000	LREF	1290.3000	INCHES
◇	.000	RUDDER	.000	SPOBRK	.000	NH8M14	8.000			BREF	1290.3000	INCHES
△	4.000	BOFLAP	.000							XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0500	IN. ZT
										SCALE	.0100	

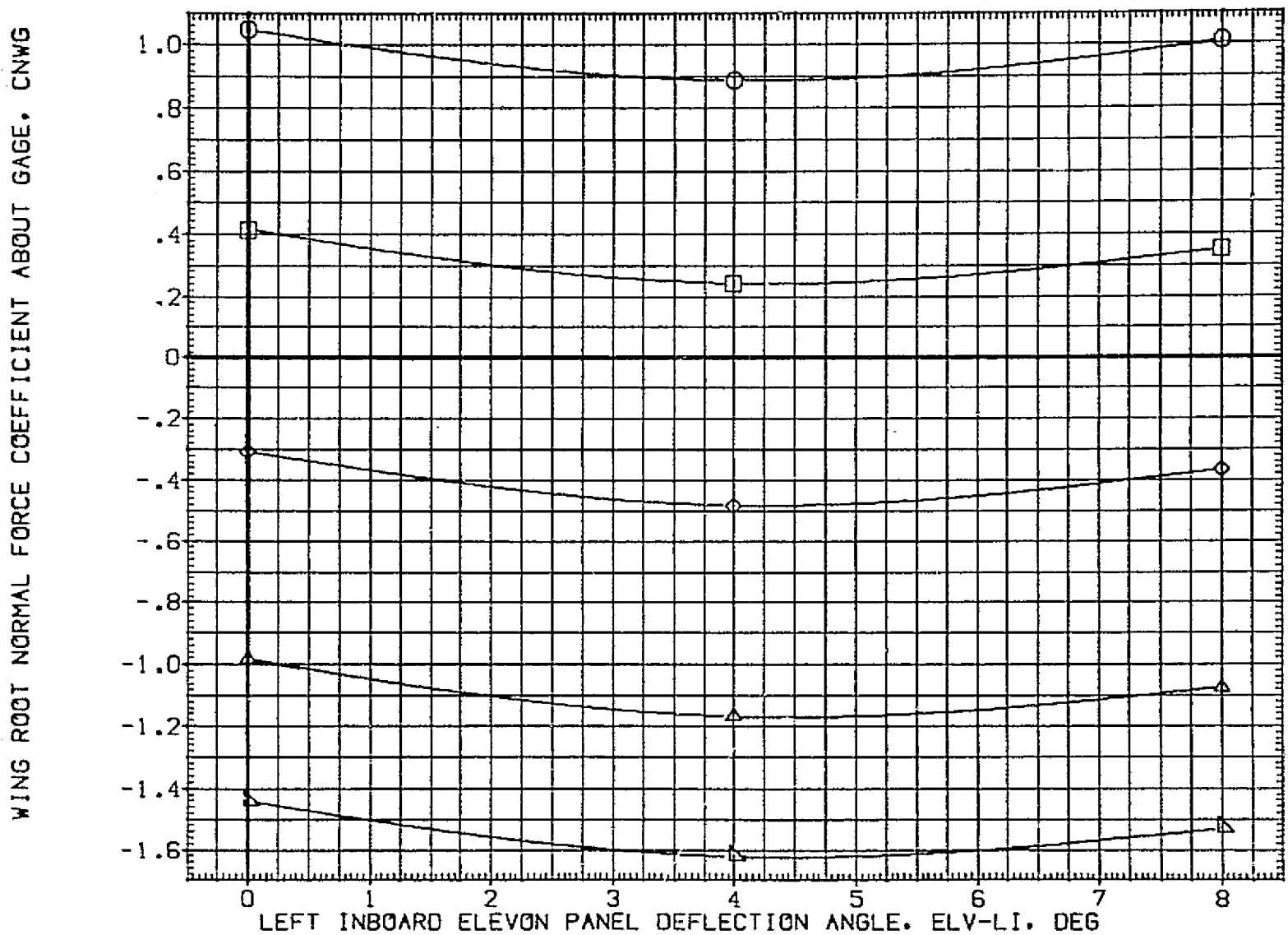


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BETA	ELV-LI	ELV-LI	ELV-LI	SREF	SQ.FT.	
□	-8.000	2.000	.000	.000	NH8M03	.000	NH8M17	2690.0000		SQ.FT.
◇	-4.000	.000	.000	.000	NH8M03	.000	NH8M17	1290.3000		INCHES
△	.000	.000	.000	.000	NH8M17	8.000		1290.3000		INCHES
▽	4.000	.000	.000	.000				976.0000		IN. XT
○	8.000	.000	.000	.000				.0000		IN. YT
								400.0000		IN. ZT
								SCALE	.0100	

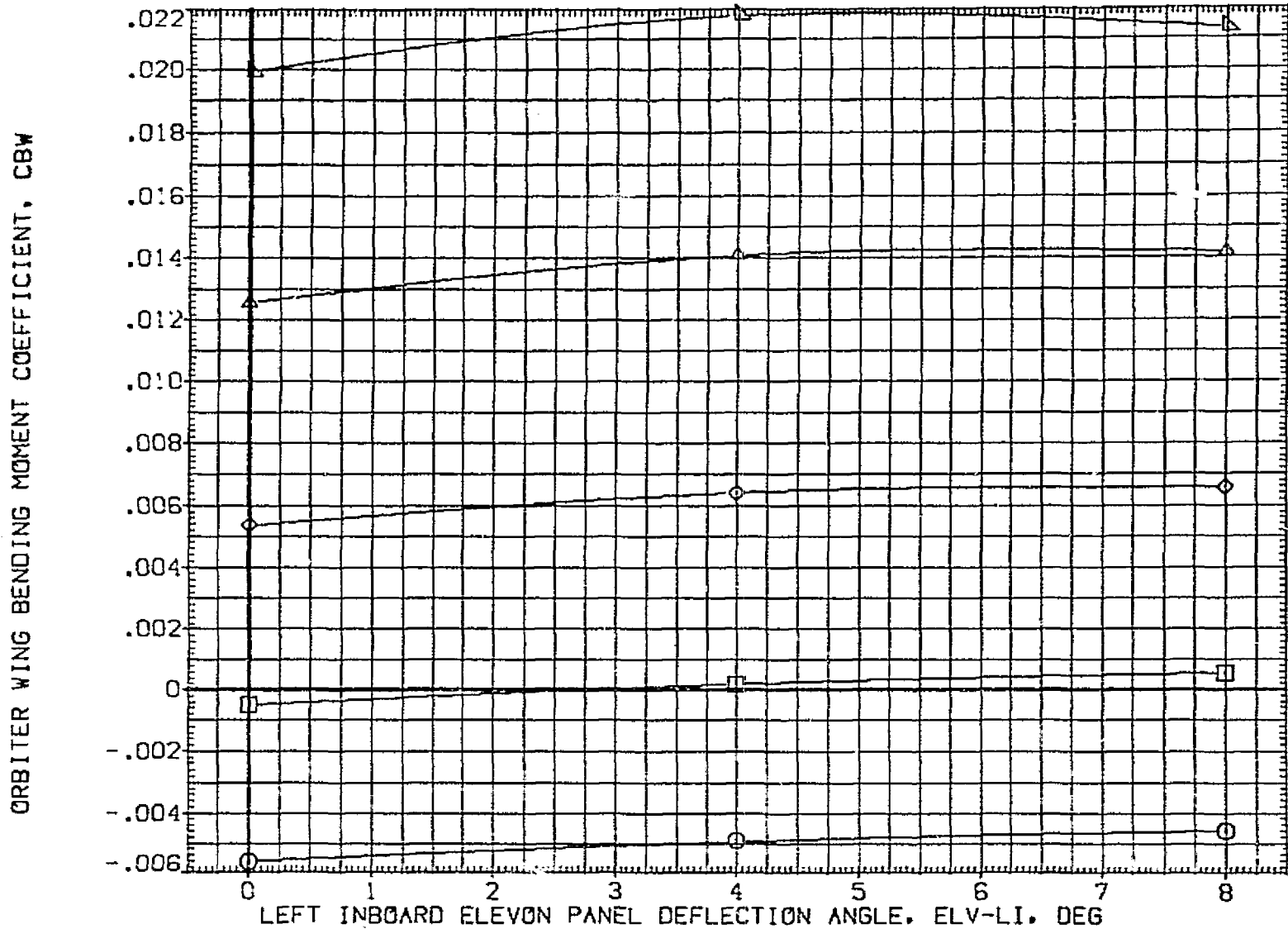


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (NH8M03)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION					
		MACH	BETA	ELV-LO	ELV-RO	ELV-LI	ELV-LI	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE
○	-8.000	2.000	.000	.000	.000	NH8M03	.000	2690.0000	1290.3000	1290.3000	.0000	.0000	400.0000	.0100
□	-4.000	2.000	.000	.000	.000	NH8M14	8.000	2690.0000	1290.3000	1290.3000	.0000	.0000	400.0000	.0100
◇	.000	2.000	.000	.000	.000	NH8M14	8.000	2690.0000	1290.3000	1290.3000	.0000	.0000	400.0000	.0100
△	4.000	2.000	.000	.000	.000	NH8M14	8.000	2690.0000	1290.3000	1290.3000	.0000	.0000	400.0000	.0100
▽	8.000	2.000	.000	.000	.000	NH8M14	8.000	2690.0000	1290.3000	1290.3000	.0000	.0000	400.0000	.0100

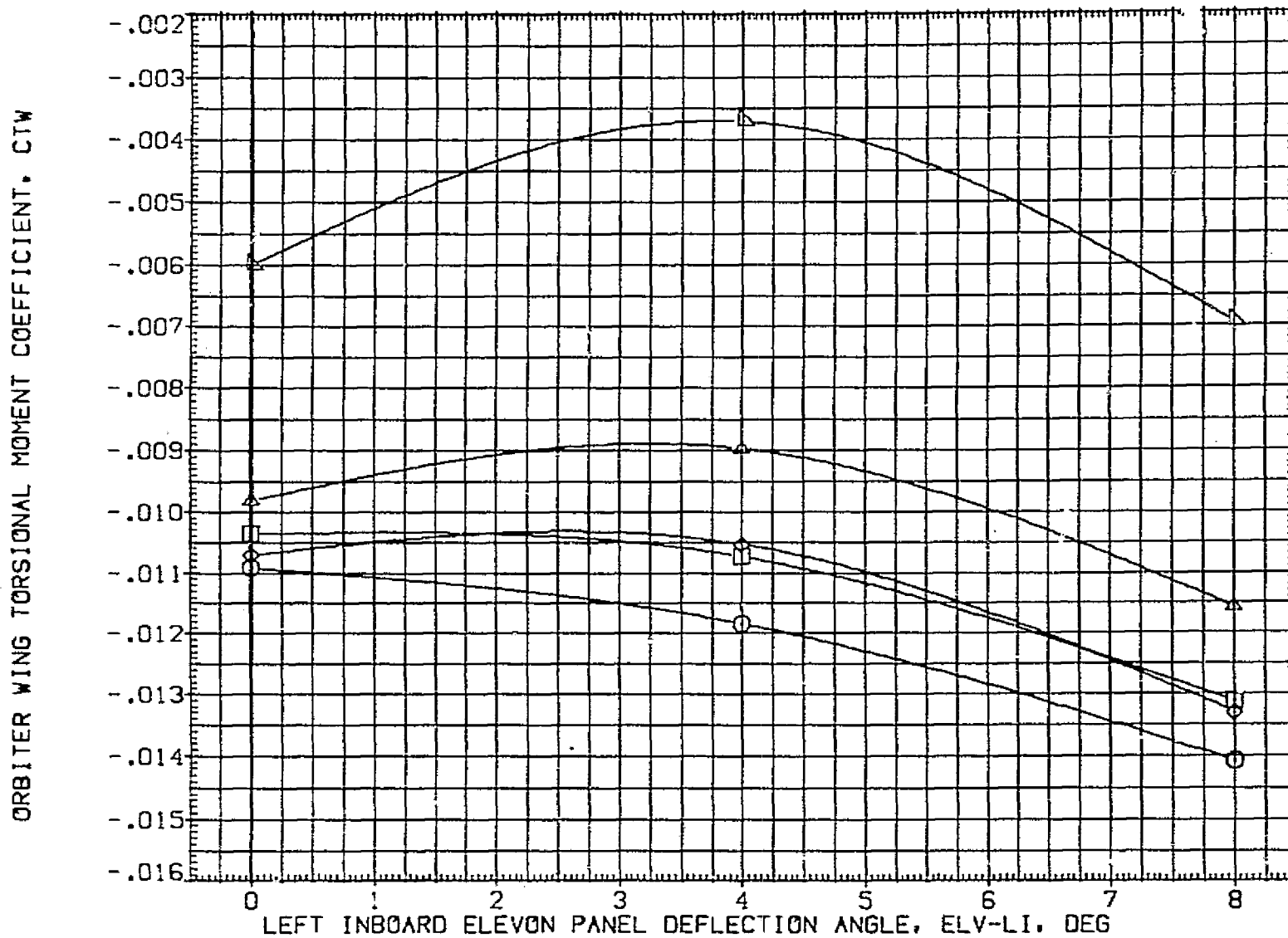


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BETA	DATASET	ELV-LI	DATASET	ELV-LI	SREF	SQ.FT.
○	-8.000	2.000	.000	.000	NH8M03	.000	NH8M17	4.000	2690.0000	90.00
□	-4.000	.000	.000	.000	NH8M03	.000			1290.3000	165.00
◇	.000	.000	.000	.000	NH8M14	8.000			1290.3000	165.00
△	4.000	.000	.000	.000					976.0000	125.00
▽	8.000	.000	.000	.000					.0000	0.00
									400.0000	160.00
									SCALE	.0100

WING ROOT NORMAL FORCE COEFFICIENT ABOUT GAGE, CNWG

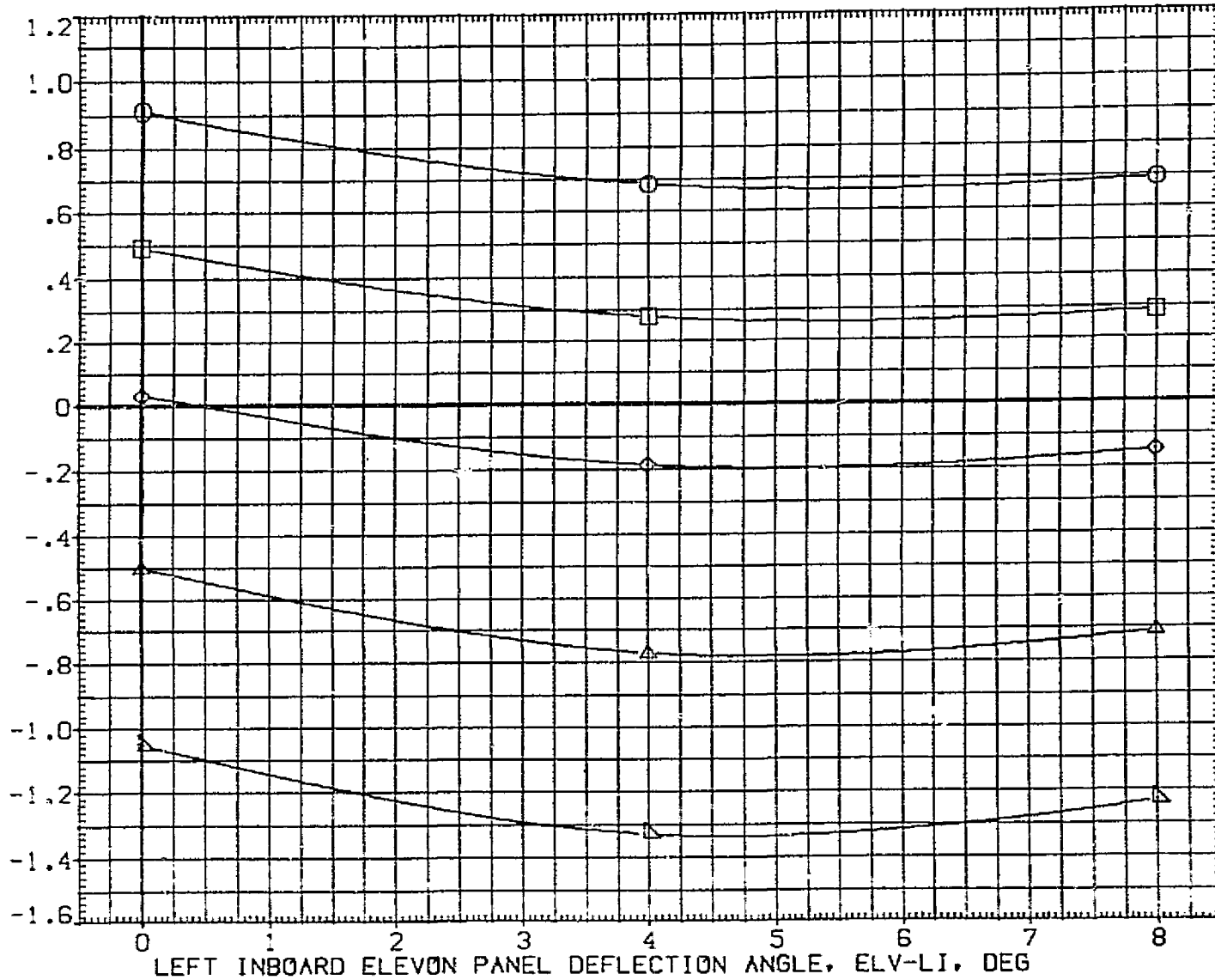


FIGURE 14 ORBITER WING LOADINGS AS A FUNCTION OF INBOARD ELEVON DEFLECTION

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
011110 111111 111111 111111 111111	-8.000	MACH	1.600	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	SG.F1.
	-4.000	RUDDER	.000	SPDRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
	.000	BOFLAP	.000			E-6014	.000			BREF	1290.3000	INCHES
	4.000									XMRP	976.0000	IN. XT
	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

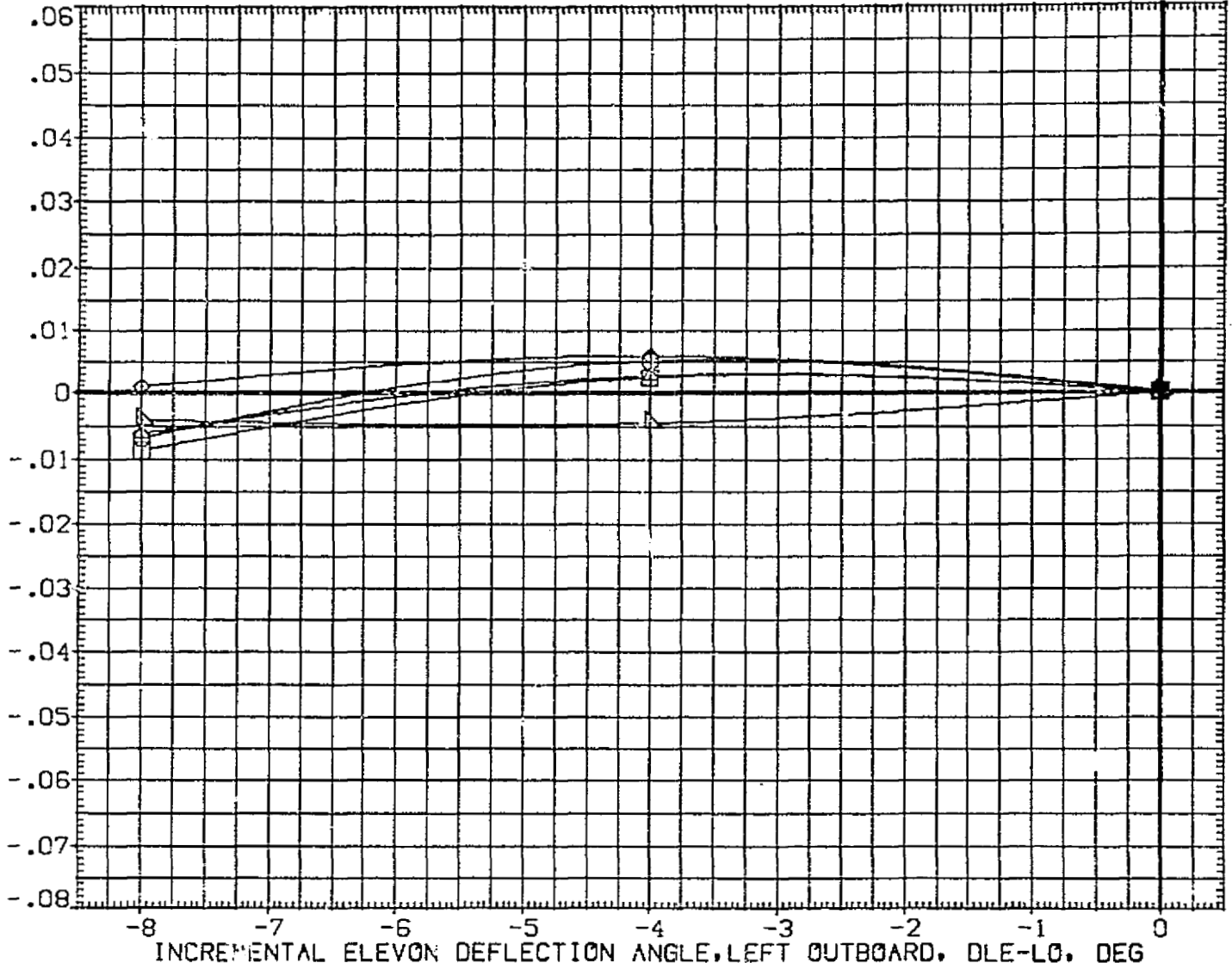


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
○	-8.000	MACH	1.600	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	SO.FT.
□	-4.000	RUDDER	.000	SPDBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			EH8014	.000			REF	1290.3000	INCHES
△	4.000									XPRP	976.0000	IN. XT
▽	8.000									YPRP	.0000	IN. YT
										ZPRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

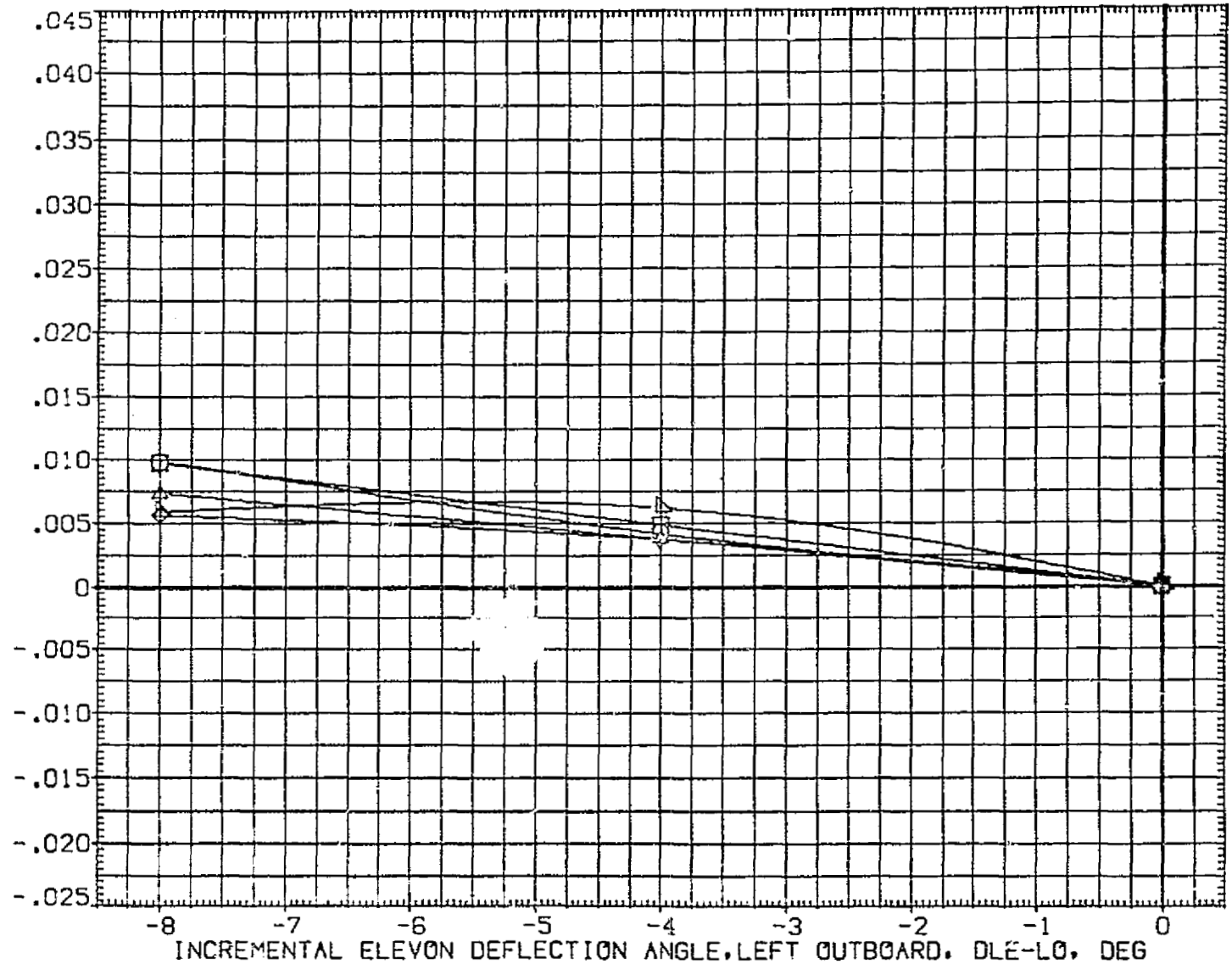


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
◇	-8.000	MACH	1.600	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	SQ.FT.
◇	-4.000	RUGGER	.000	SPOBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			EH8014	.000			BREF	1290.3000	INCHES
◇	4.000									XMRP	976.0000	IN. XT
◇	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAF

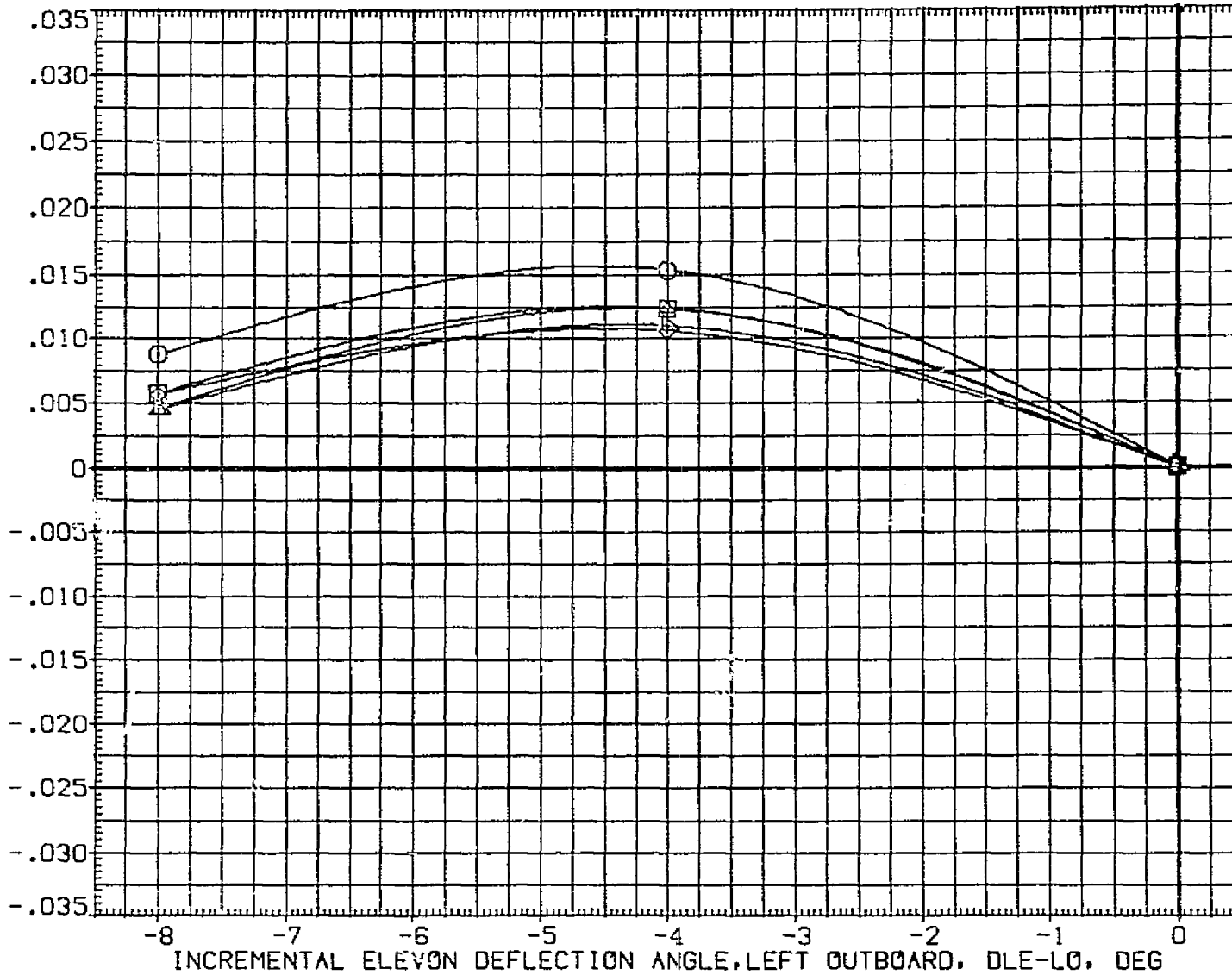


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
		MACH	BETA		DLE-L0	DLE-L0	DLE-L0	SREF	SO.FT.		
V▷◇□○	-8.000	2.000	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	SO.FT.
	-4.000	.000	SPOBRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
	.000	.000			E-8014	.000			BREF	1290.3000	INCHES
	4.000								XMRP	976.0000	IN. XT
	8.000								YMRP	.0000	IN. YT
								ZMRP	400.0000	IN. ZT	
								SCALE	.0100		

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

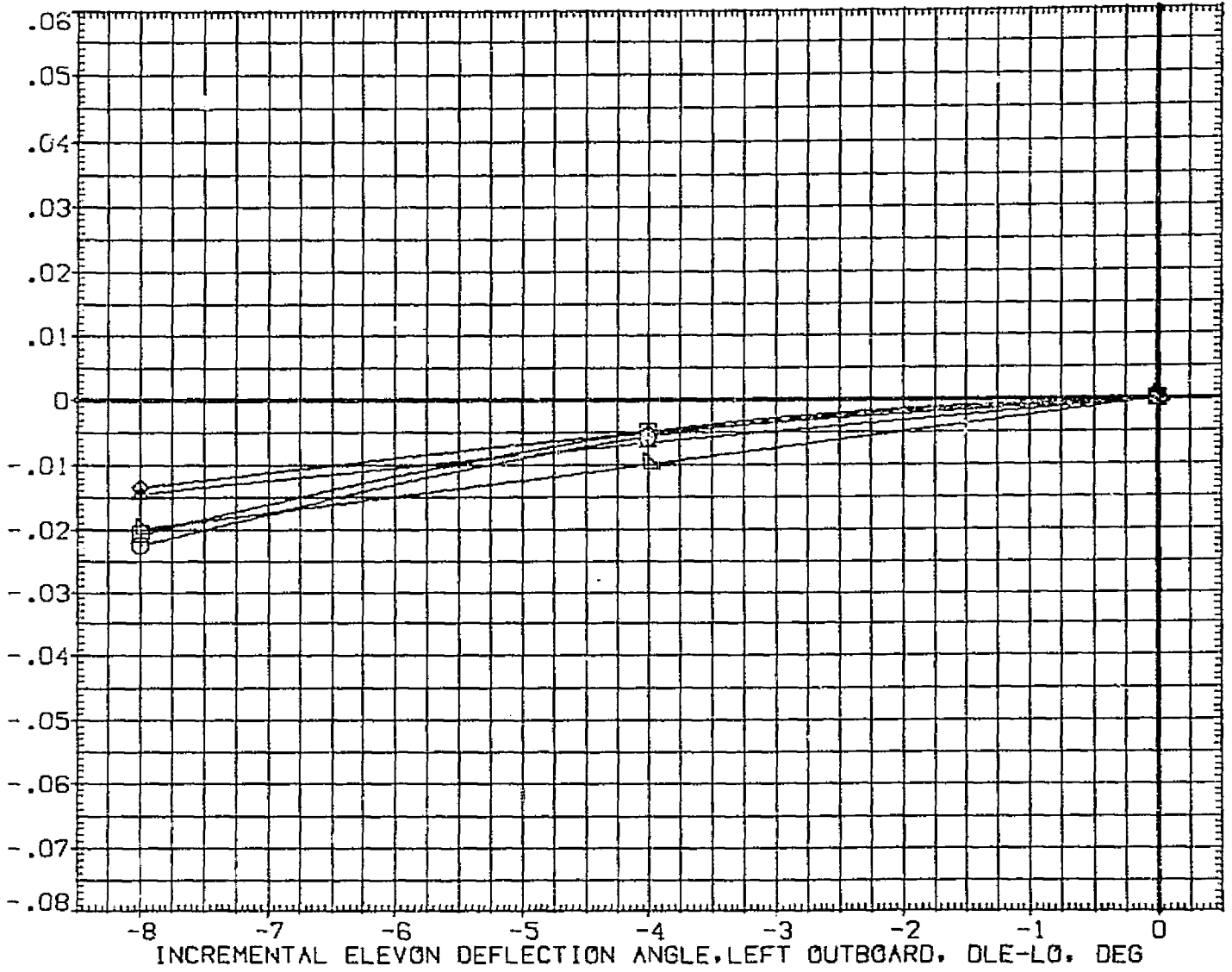


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
◇	-8.000	MACH	2.000	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	50. FT.
□	-4.000	RLODER	.000	SPOBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			EH8014	.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
○	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

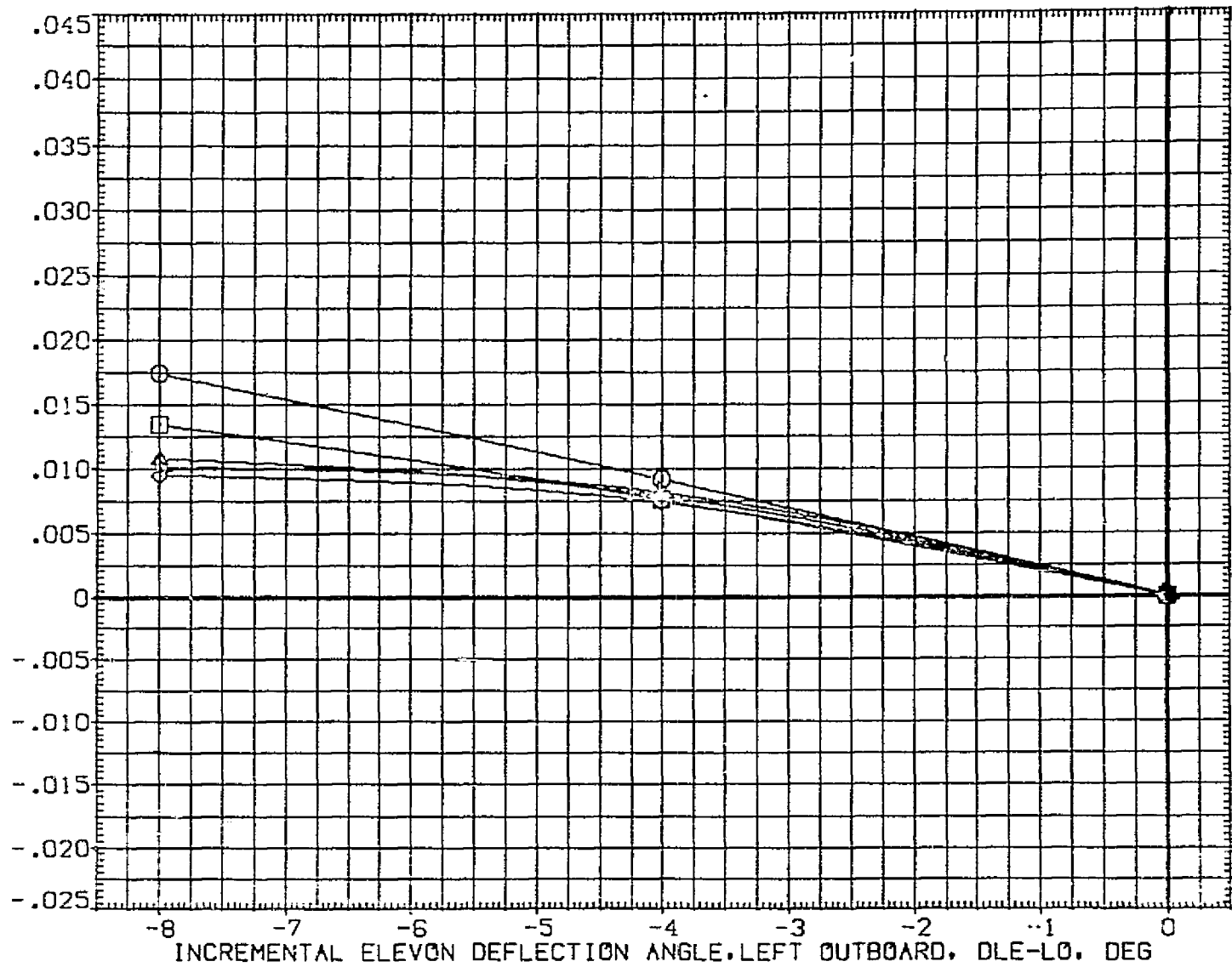


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
○	-8.000	MACH	2.000	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	50. FT.
□	-4.000	RUDDER	.000	SPOBRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BDFLAP	.000			E-8014	.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

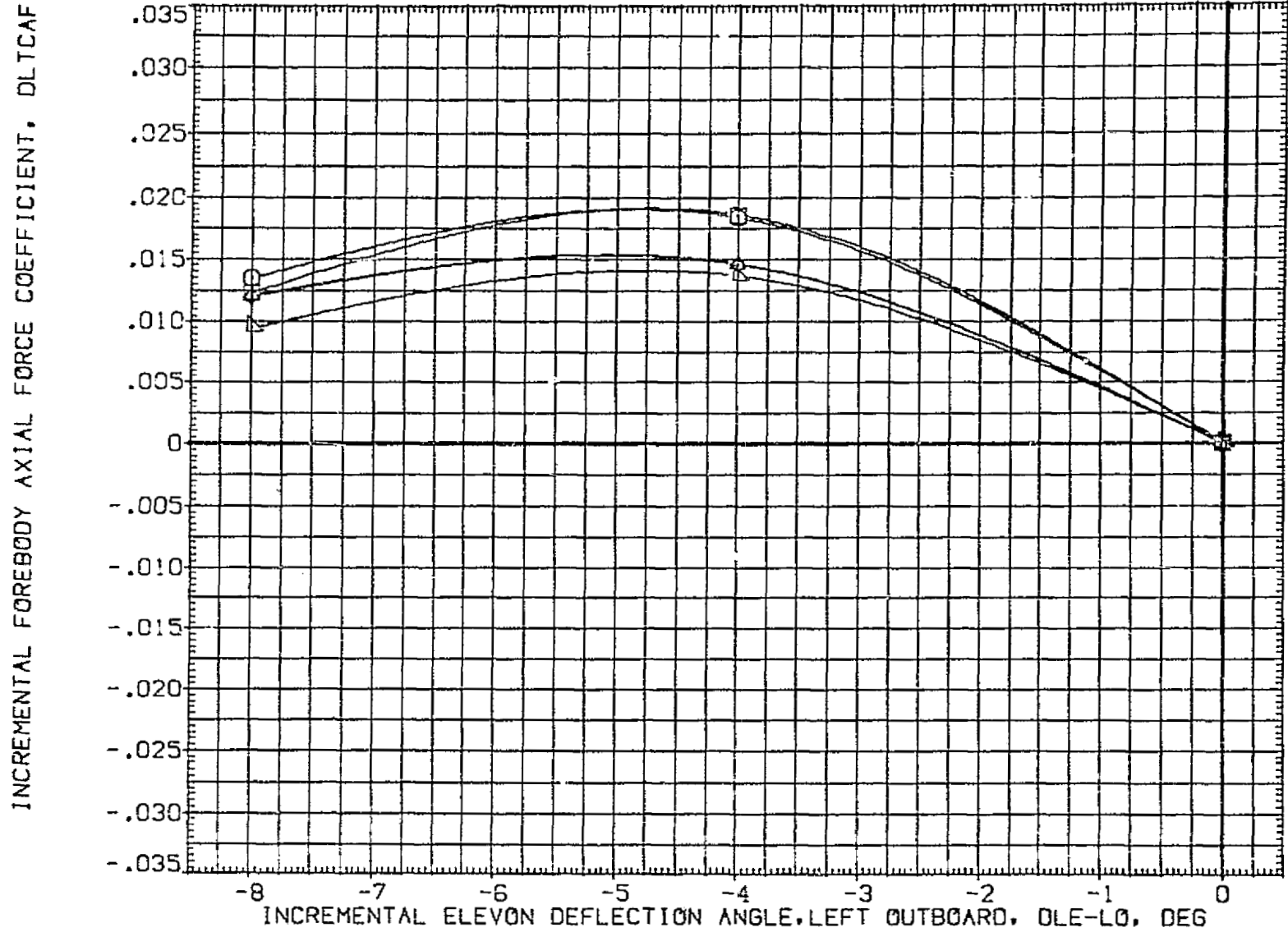


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
		MACH	BETA	SP089K	DATASET	DLE-L0	DATASET	DLE-L0	SREF	SQ.FT.	INCHES	
○	-8.000	2.500	.000	.000	D-8015	-8.000	DH8016	-4.000	2690.0000	1290.3000	INCHES	
□	-4.000	.000	.000	.000	E-8014	.000			1290.3000	976.0000	IN. XT	
◇	.000	.000							976.0000	.0000	IN. YT	
△	4.000								ZMRP	400.0000	IN. ZT	
▽	8.000								SCALE	.0100		

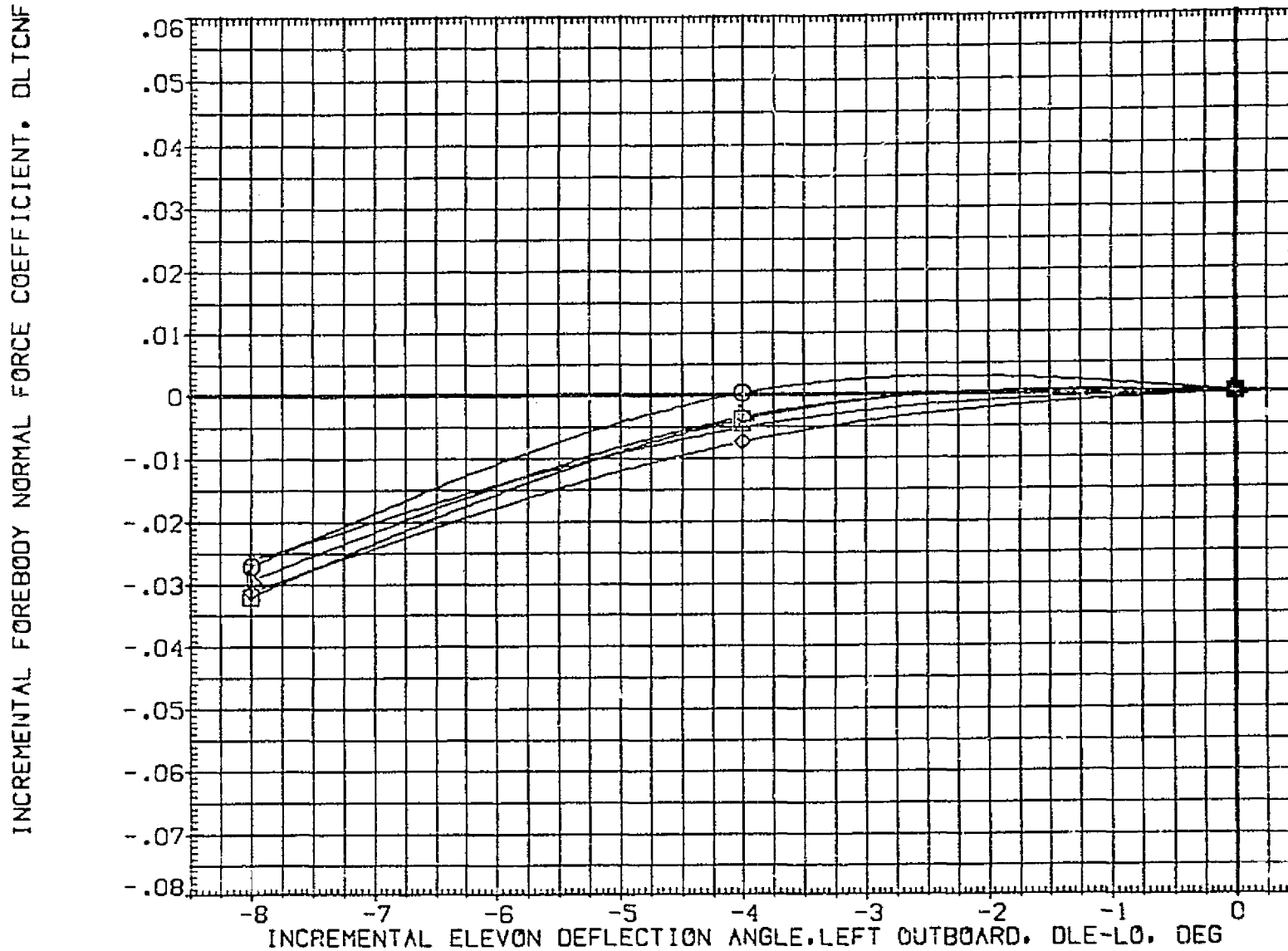


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	-8.000		2.500	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	50. FT.
□	-4.000	RUDDER	.000	SPOSRK	.000	D-8015	-8.000	D-8016	-4.000	L REF	1290.3000	INCHES
◇	.000	BOFLAP	.000			E-8014	.000			BREF	1290.3000	INCHES
▽	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

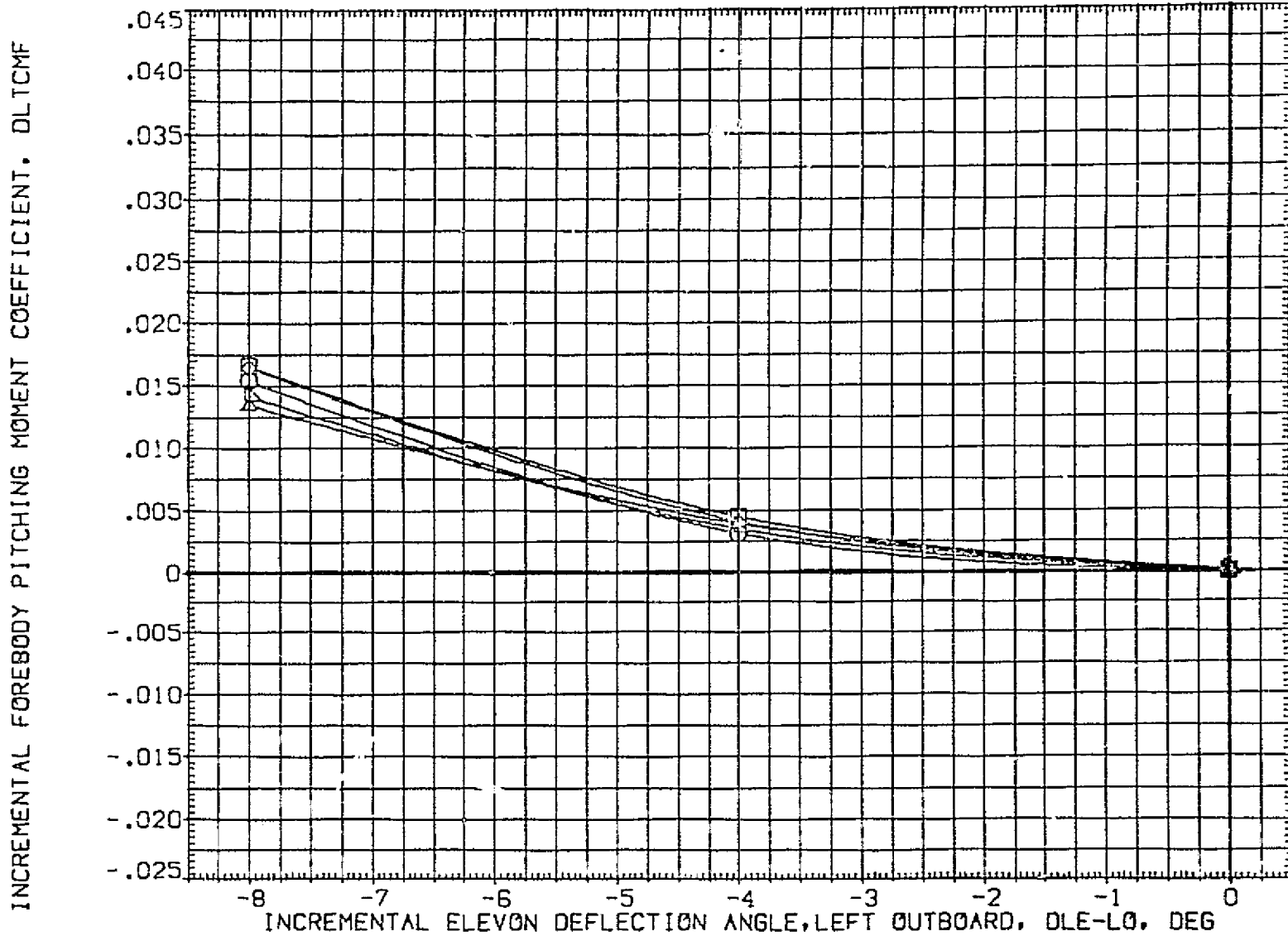


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
◊ ◊ ◊ ◊ ◊	-8.000	MACH	2.500	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	50.FT.
	-4.000	RUDDER	.000	SPDRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
	.000	BOFLAP	.000			E-8014	.000			BREF	1290.3000	INCHES
	4.000									XMRP	576.0000	IN. XT
	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLICAF

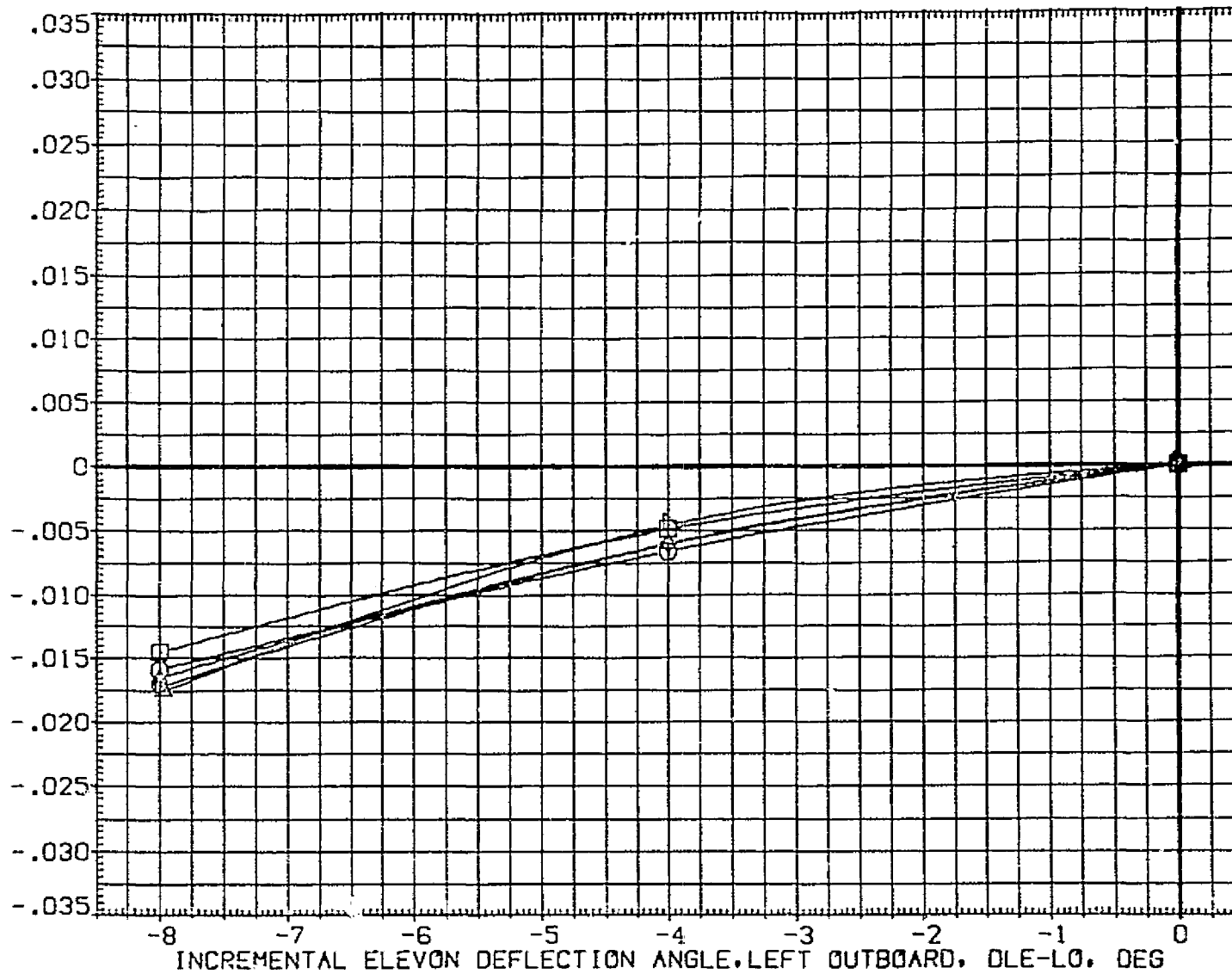


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
○	-8.000	MACH	2.860	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2680.0000	50. FT.
□	-4.000	RUDDER	.000	SPOBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1280.3000	INCHES
◇	.000	BCFLAP	.000			EH8014	.000			BREF	1250.3000	INCHES
▽	4.000									XMRP	976.0000	IN. XT
△	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

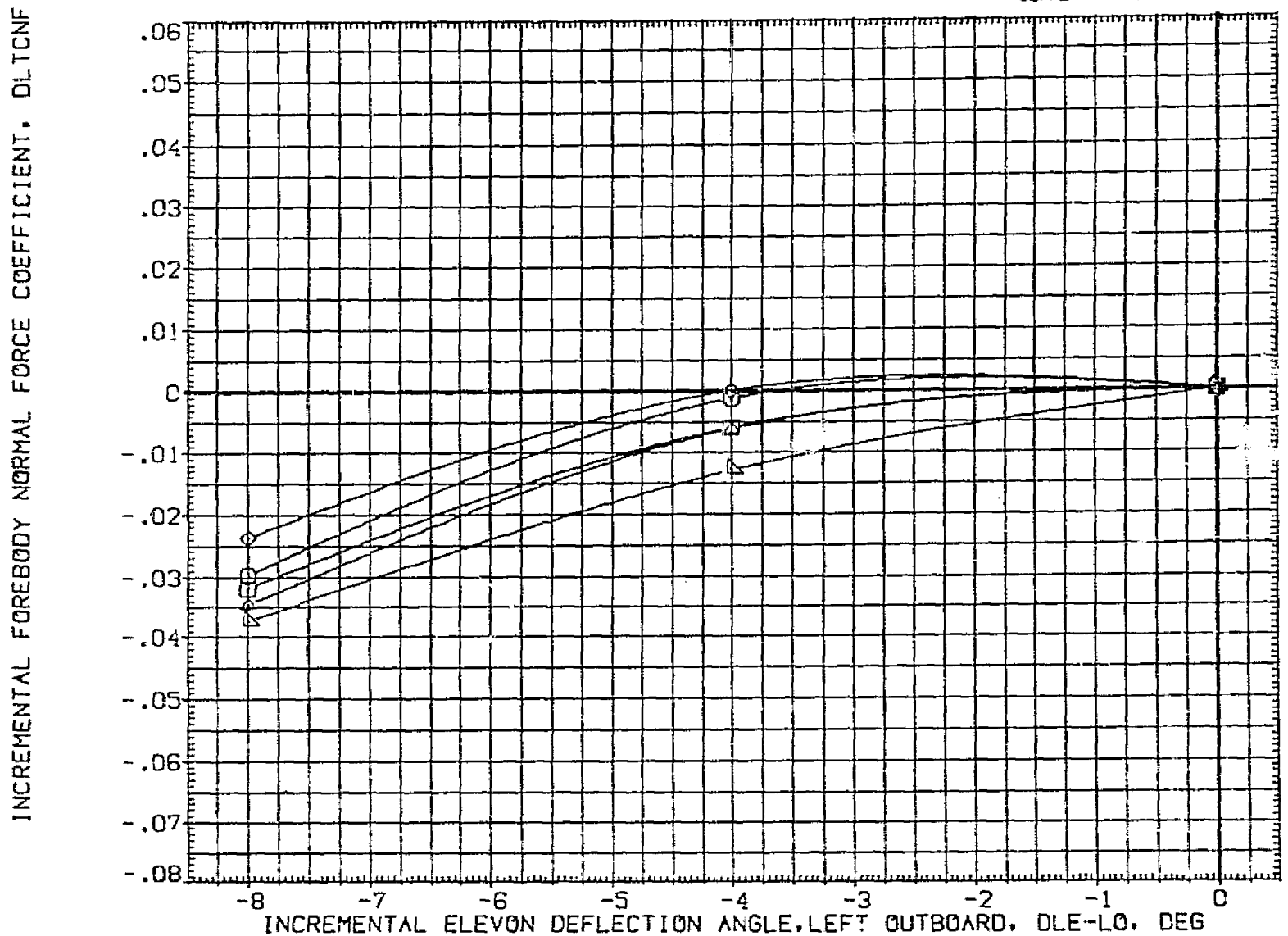


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
▽	-8.000	MACH 2.860 BETA	.000 DATASET DLE-L0	SREF 2690.0000 SQ.FT.
□	-4.000	RUDDER .000 SPOBRK	.000 D-8015 -8.000 D-8016	LREF 1290.3000 IN.-ES
◇	.000	BOFLAP .000	Er8014 .000	BREF 1290.3000 IN.-ES
△	4.000			XMRP 976.0000 IN. XT
○	8.000			YMRP .0000 IN. YT
				ZMRP 400.0000 IN. ZT
				SCALE .0100

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

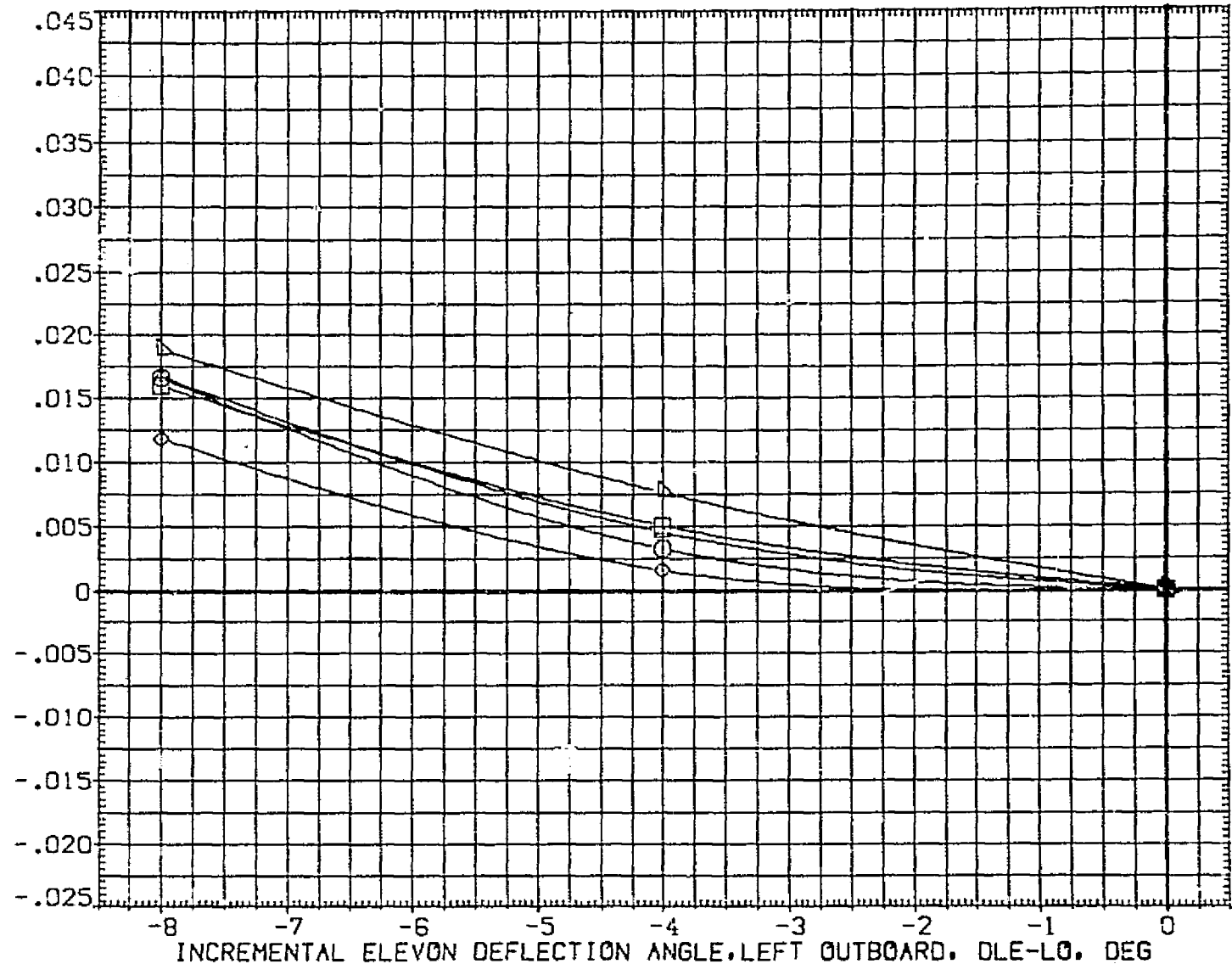


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
○	-8.000	MACH	2.850	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	SO.FT.
◇	-4.000	RUDDER	.000	SPDRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
□	.000	BOFLAP	.000			E-8014	.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
∇	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAF

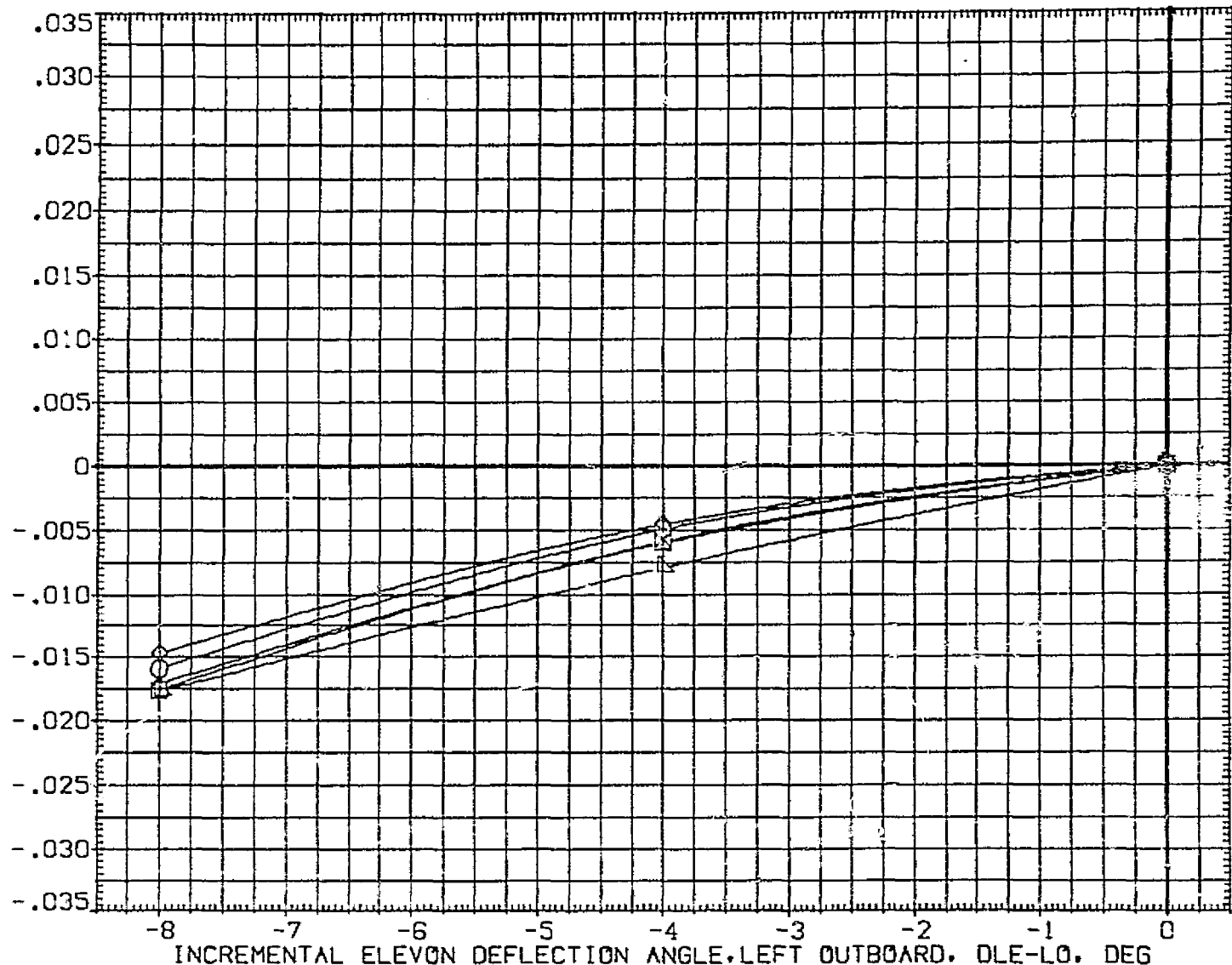


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION			
○	-8.000		3.900	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	SO.FT.
◇	-4.000	RUDDER	.000	SPOBRK	.000	D-8015	-8.000	D-8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			E-8014	.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
○	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

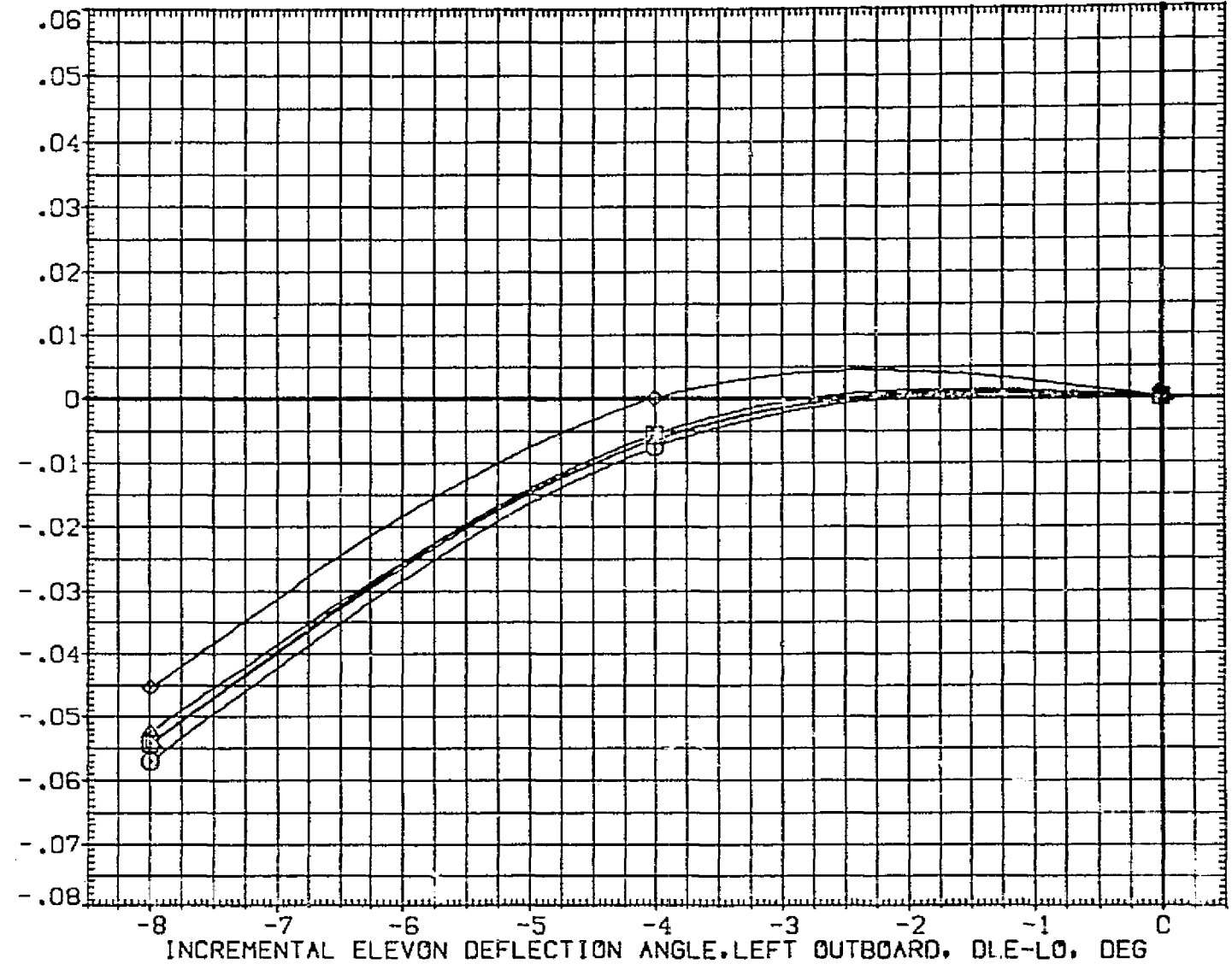


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	-8.000		3.920	BETA	.000	DATASET	DLE-LO	DATASET	DLE-LO	SREF	2690.0000	50. FT.
□	-4.000	RUDDER	.000	SPOBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			EH8014	.000			BREF	1290.3000	INCHES
▽	4.000									XMRP	976.0000	IN. XT
	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

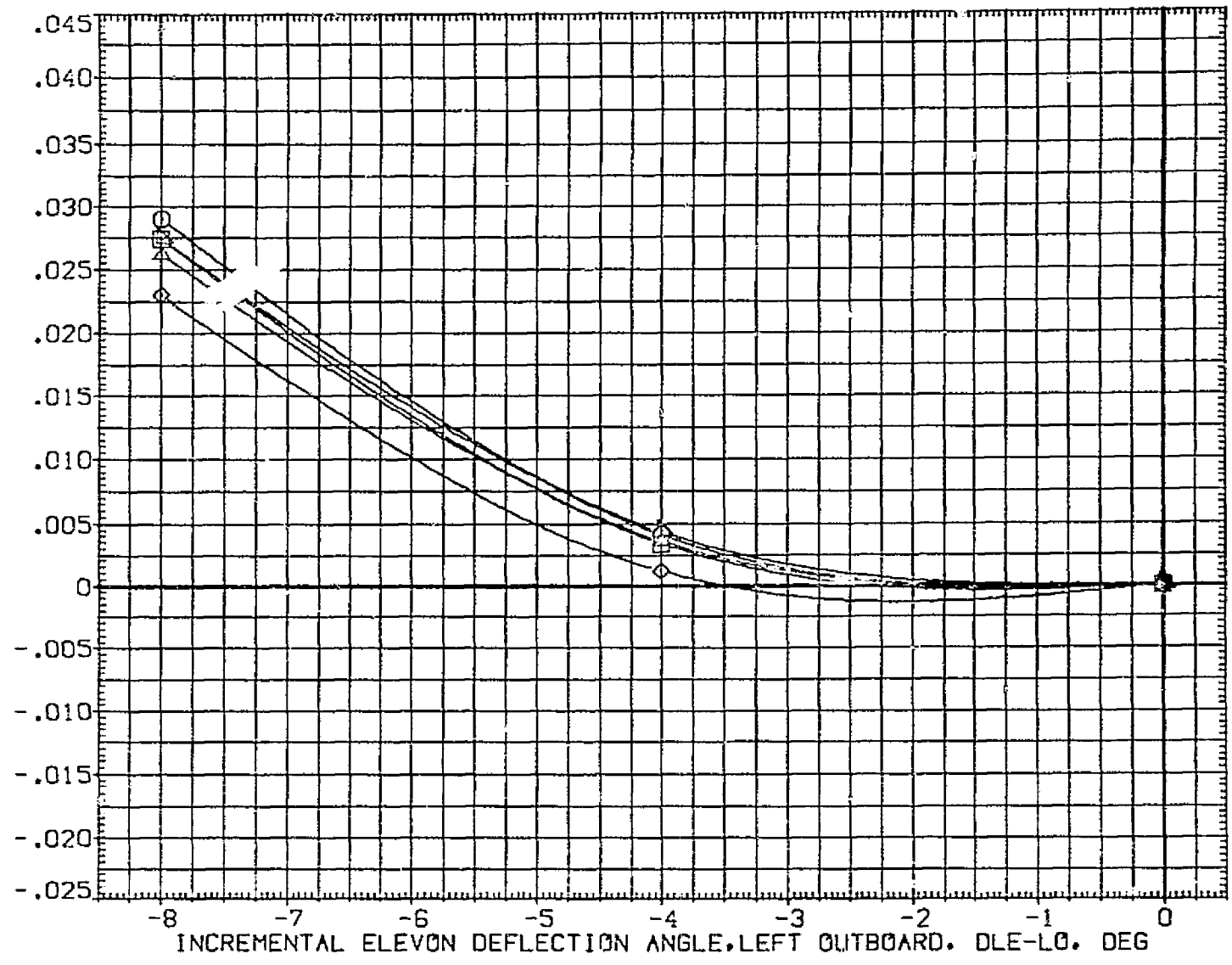


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION		
	Value	Label	Value	Label	Value	DLE-L0	Value	SREF	Value	Unit
○	-8.000	MACH	3.900	BETA	.000	DH8015	-8.000	2690.0000	50. FT.	
◇	-4.000	RUDDER	.000	SPOBRK	.000	DH8015	-8.000	1290.3000	INCHES	
□	.000	BOFLAP	.000		.000	E-8014	.000	1290.3000	INCHES	
△	4.000							976.0000	IN. XT	
▽	8.000							.0000	IN. YT	
								400.0000	IN. ZT	
								SCALE	.0100	

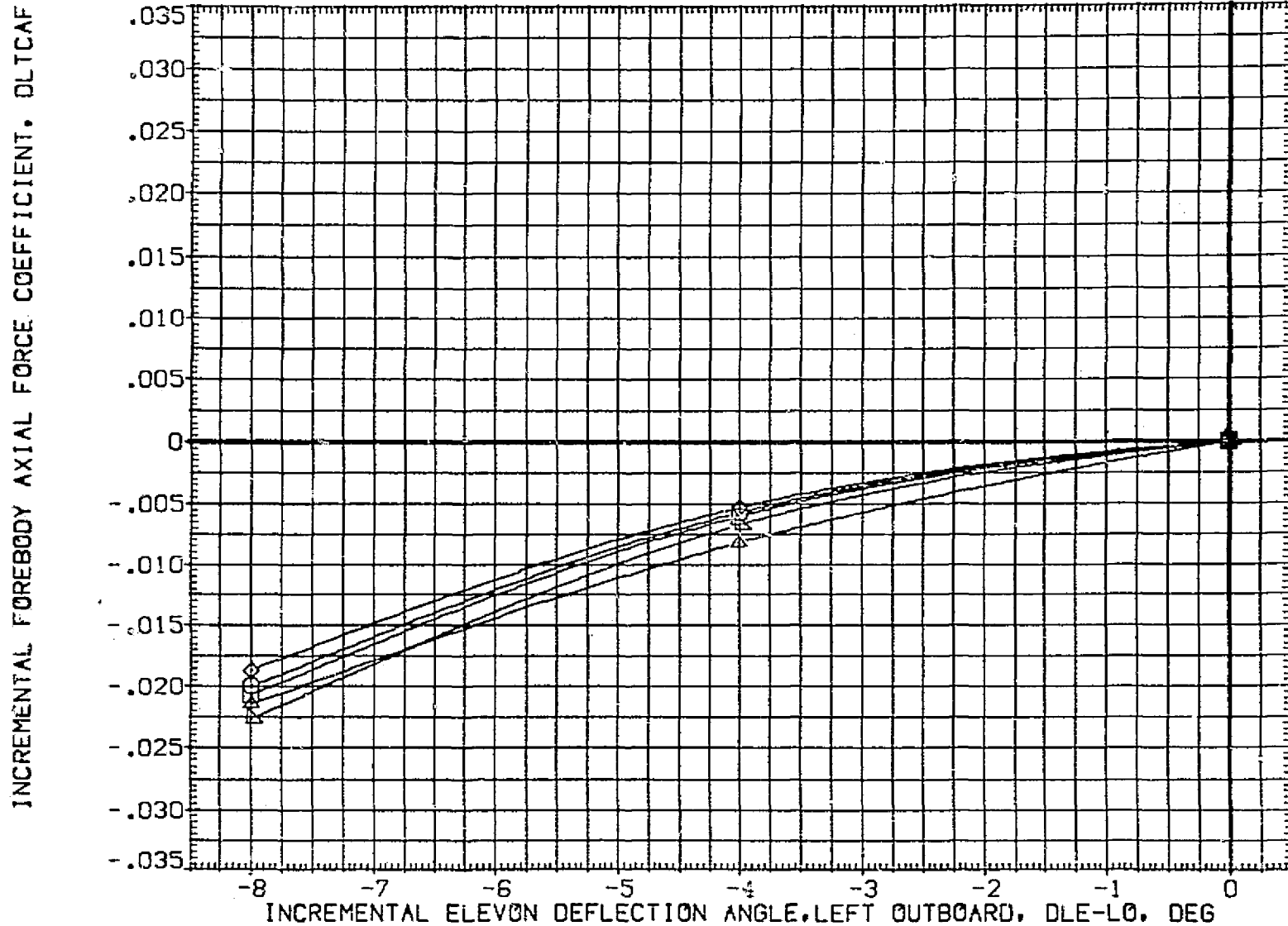


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	SPSRK	DLG-LO	DLG-LO	DLG-LO	SREF	INCHES	IN. XT
011010	-6.000	4.500	.000	.000	D-8015	-8.000	D-8016	2690.0000	SO. FT.	
	-4.000	RUDDER	.000	.000	E-8014	.000		1290.3000	INCHES	
	.000	BOFLAP	.000					1290.3000	INCHES	
	4.000							976.0000	IN. XT	
	8.000							.0000	IN. YT	
							400.0000	IN. ZT		
							SCALE	.0100		

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

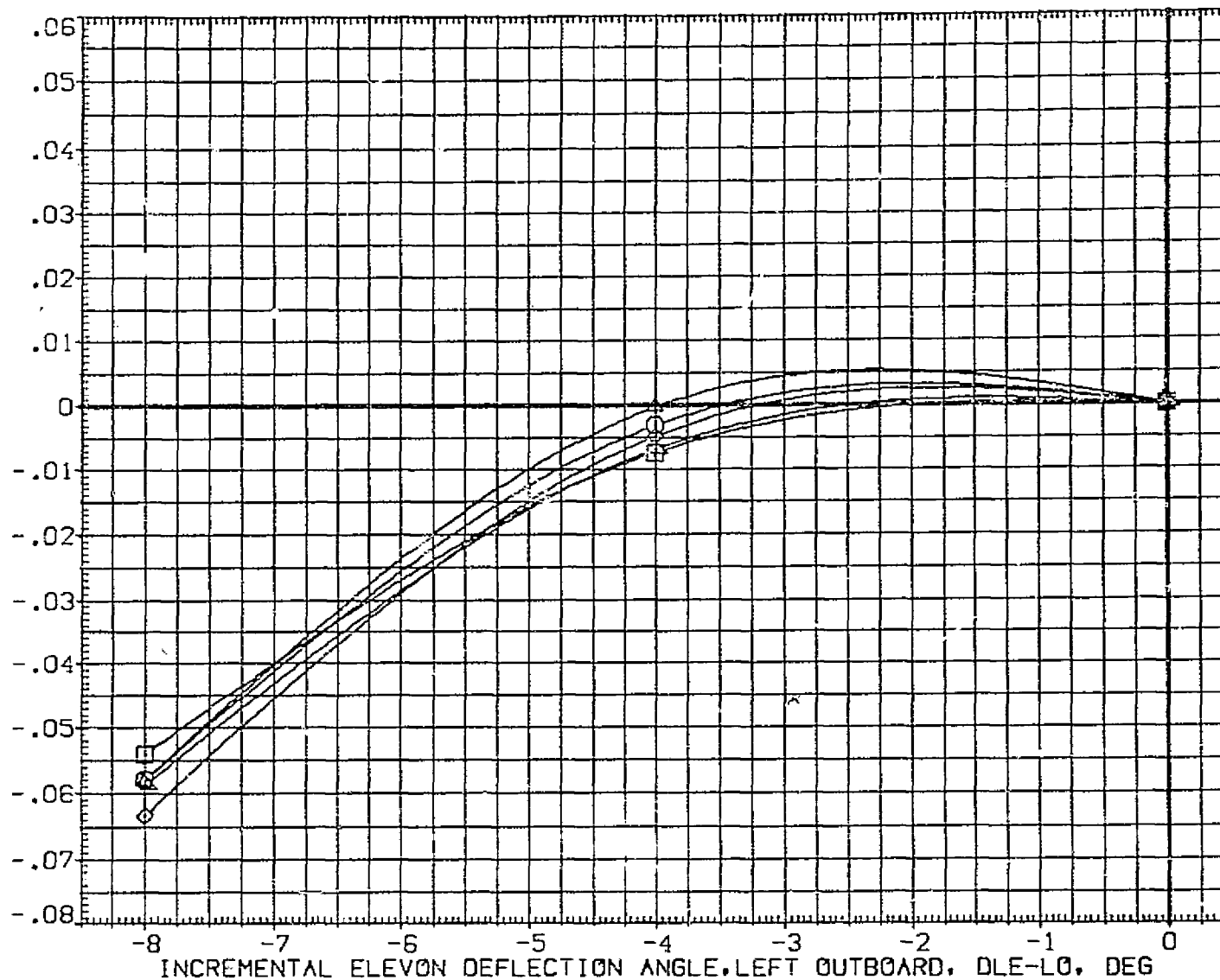


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8015)

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
011021	-8.000	MACH	1.600	BETA	.000	DATASET	DLE-L0	DATASET	DLE-L0	SREF	2690.0000	50. FT.
	-4.000	RUDDER	.000	SPOBRK	.000	DH8015	-8.000	DH8016	-4.000	LREF	1280.3000	INCHES
	.000	BDFLAP	.000			EH8014	.000			BREF	1290.3000	INCHES
	4.000									XREF	976.0000	IN. XT
	8.000									YREF	.0000	IN. YT
									ZREF	400.0000	IN. ZT	
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

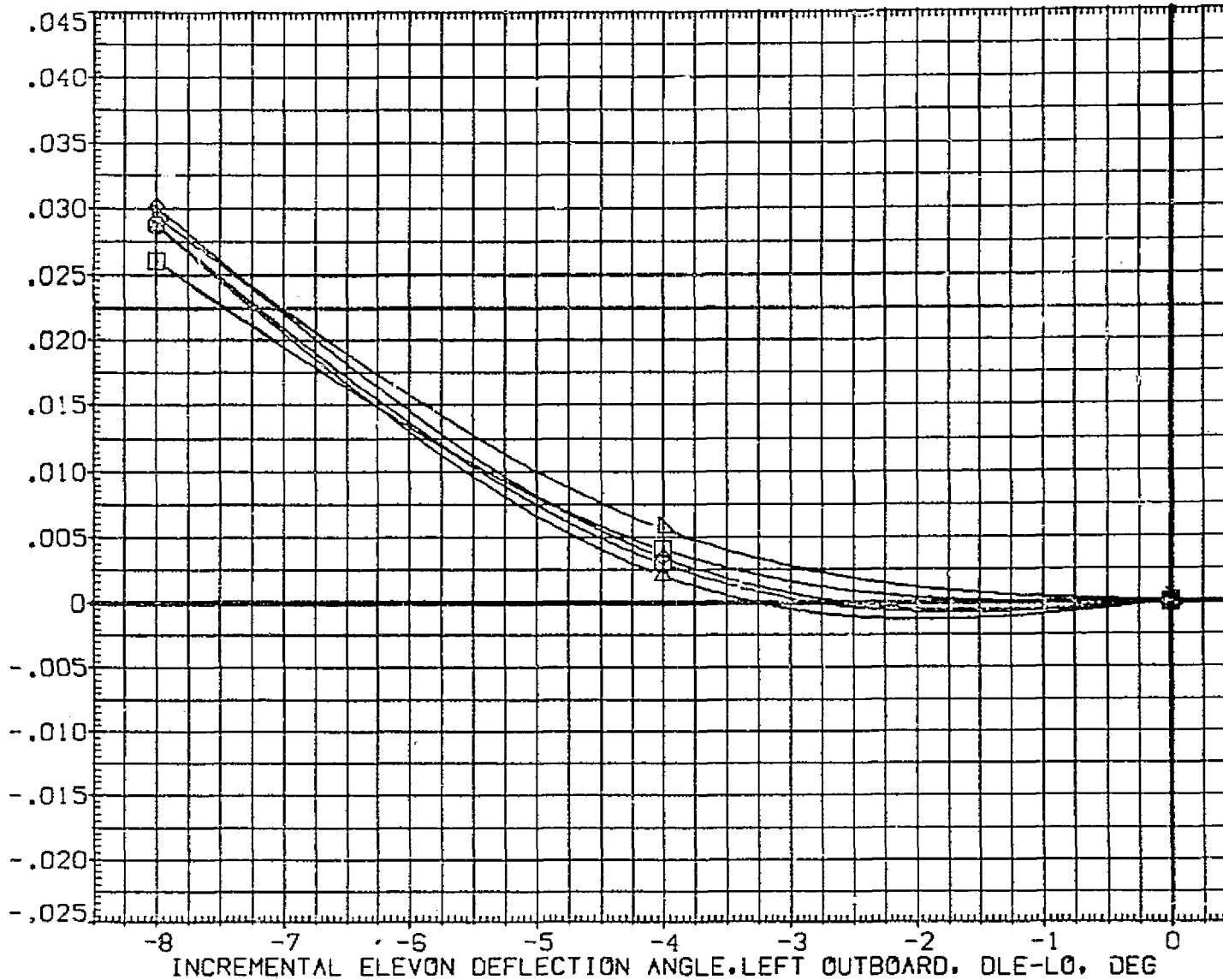


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION	
◇	-8.000	MACH 4.600	BETA .000	DATASET DLE-L0	SREF 2690.0000 SQ.FT.
◇	-4.000	RUDDER .000	SPOBRK .000	D-8015	LREF 1290.3000 INCHES
◇	.000	BOFLAP .000		EM8014	BREF 1290.3000 INCHES
△	4.000				XMRP 976.0000 IN. YT
▽	8.000				YMRP .0000 IN. YT
					ZMRP 400.0000 IN. ZT
					SCALE .0100

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLICAF

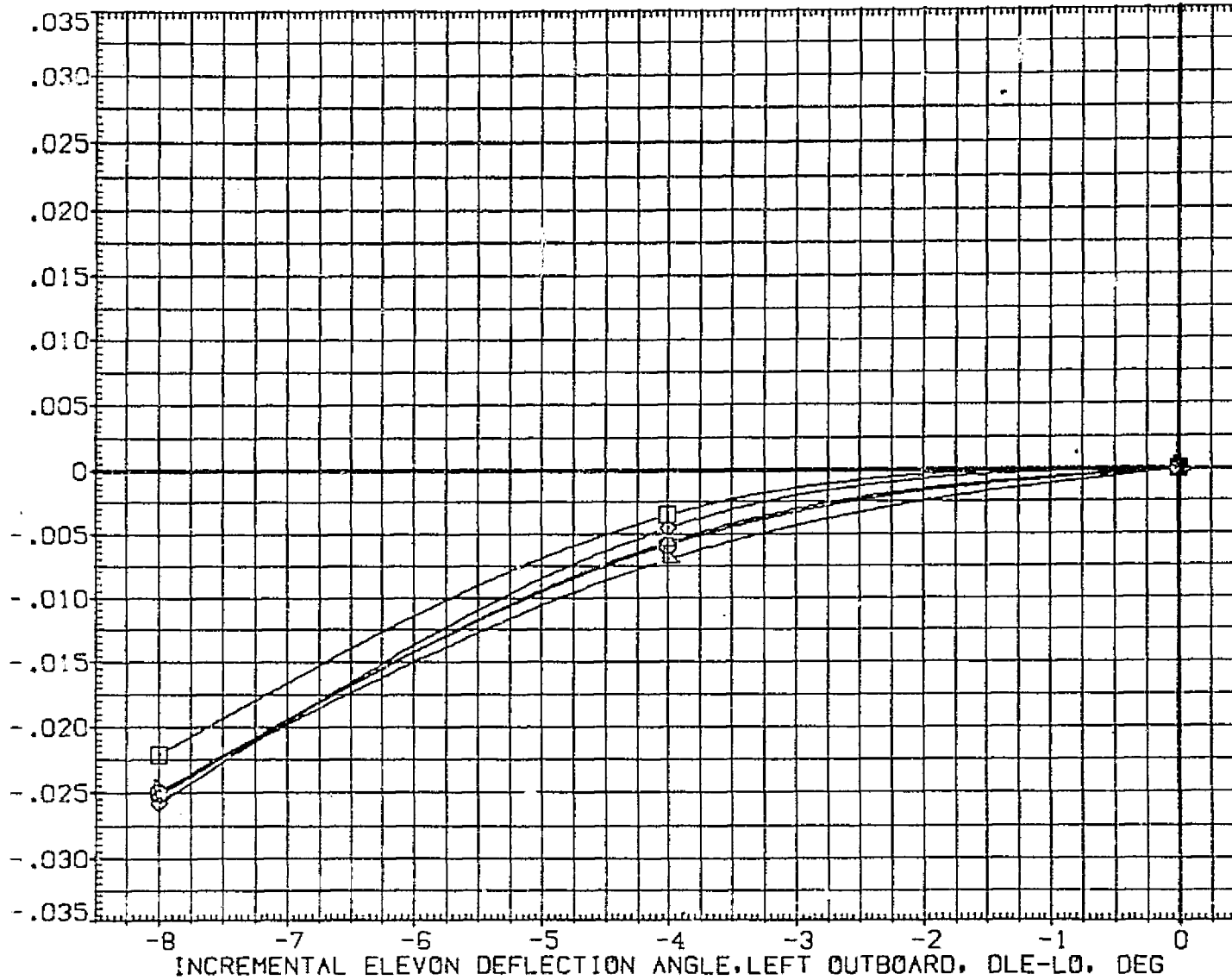


FIGURE 15 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO OUTBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
◇	-8.000		1.600	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SO.FT.
	-4.000	RJODER	.000	SPOBRK	.000	DH8003	.000	DH8017	4.000	LREF	1290.3000	INCHES
	.000	BCFLAP	.000			DH8014	8.000			BREF	1290.3000	INCHES
	4.000									XMRP	976.0000	IN. XT
	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

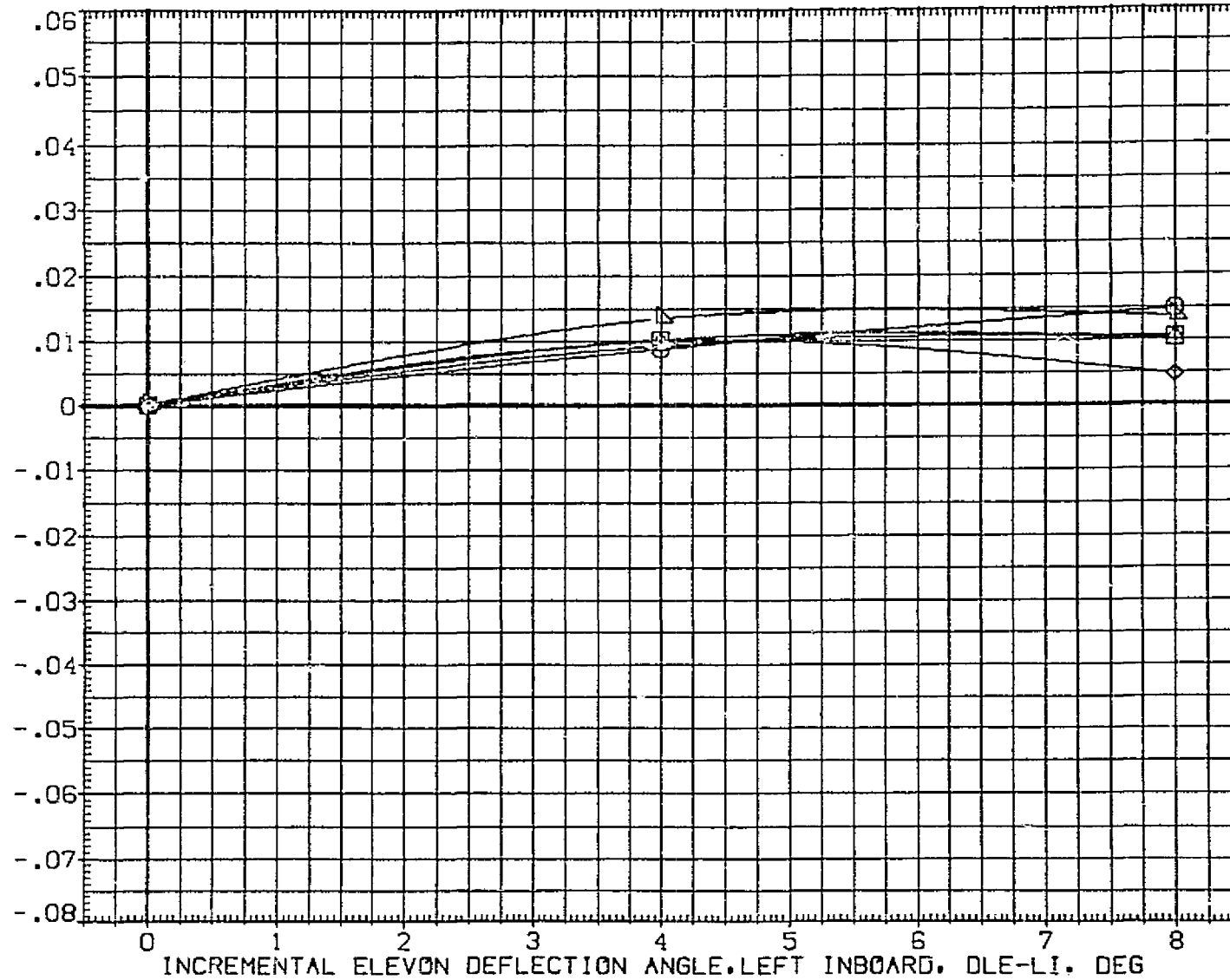


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
		MACH	BETA	SPDBRK	DLE-LI	DLE-LI	DLE-LI	SREF	SQ.FT.			
○	-8.000	1.600	BETA	.000	DH8003	.000	DH8017	2690.0000	2690.0000	SG.FT.		
□	-4.000	.000	SPDBRK	.000	DH8014	8.000		1290.3000	1290.3000	INCHES		
◇	.000	.000						1290.3000	1290.3000	INCHES		
△	4.000							976.0000	976.0000	IN. XT		
▽	8.000							.0000	.0000	IN. YT		
								400.0000	400.0000	IN. ZT		
								.0100	.0100	SCALE		

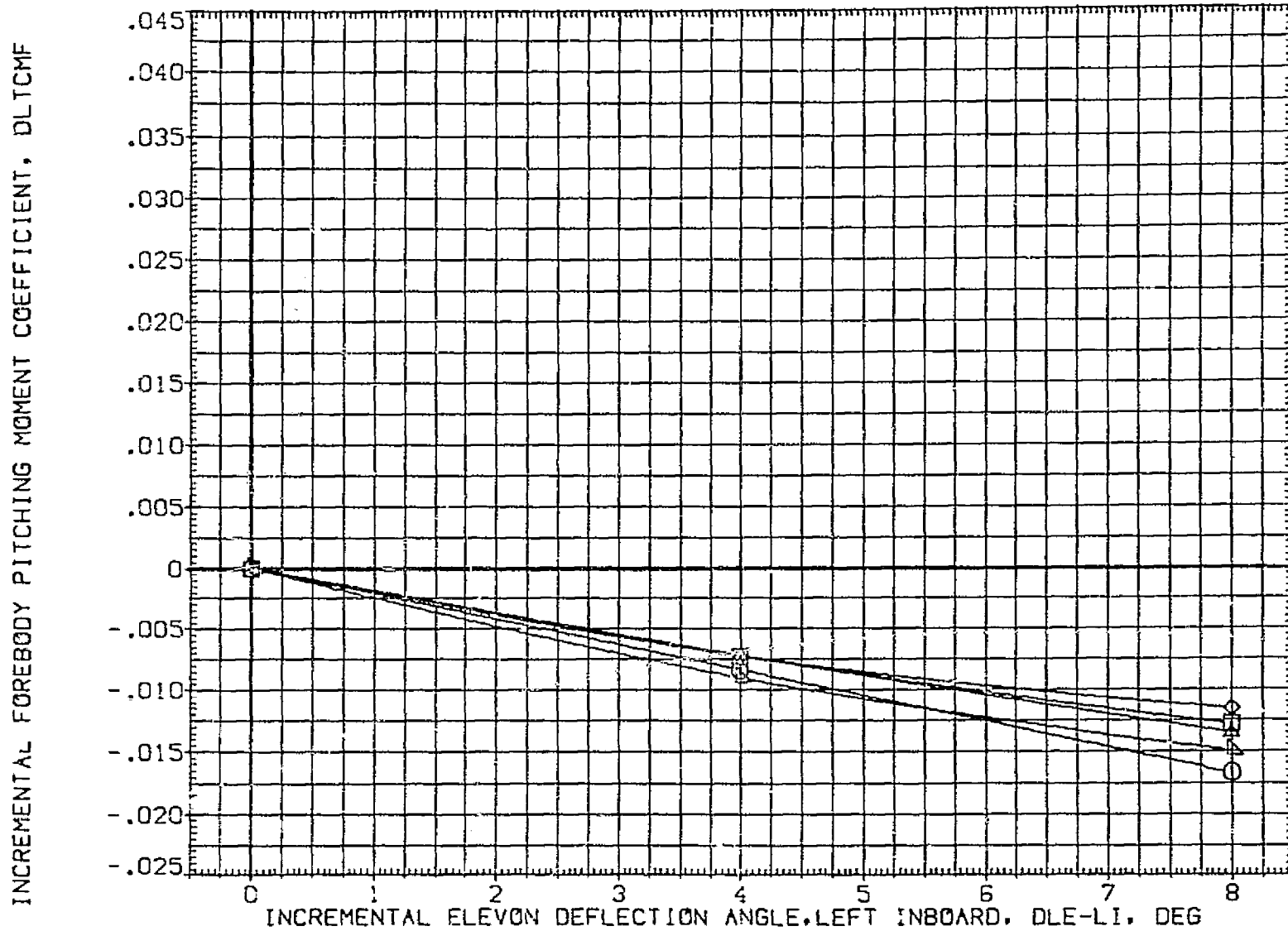


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION			
	ALPHA	MACH	BETA	BETA	DATASET	DLE-LI	DATASET	DLE-LI	SREF	SO. FT.	
0110 1000 1000 4.000 8.000	-8.000		1.600		.000	D-8003	.000	D-8017	4.000	2690.0000	50. FT.
	-4.000	RUDDER	.000	SPDRK	.000	D-8014	8.000			1290.3000	INCHES
	.000	BDFLAP	.000							1290.3000	INCHES
	4.000									976.0000	IN. XT
	8.000									.0000	IN. YT
										400.0000	IN. ZT
										.0100	SCALE

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLTCAF

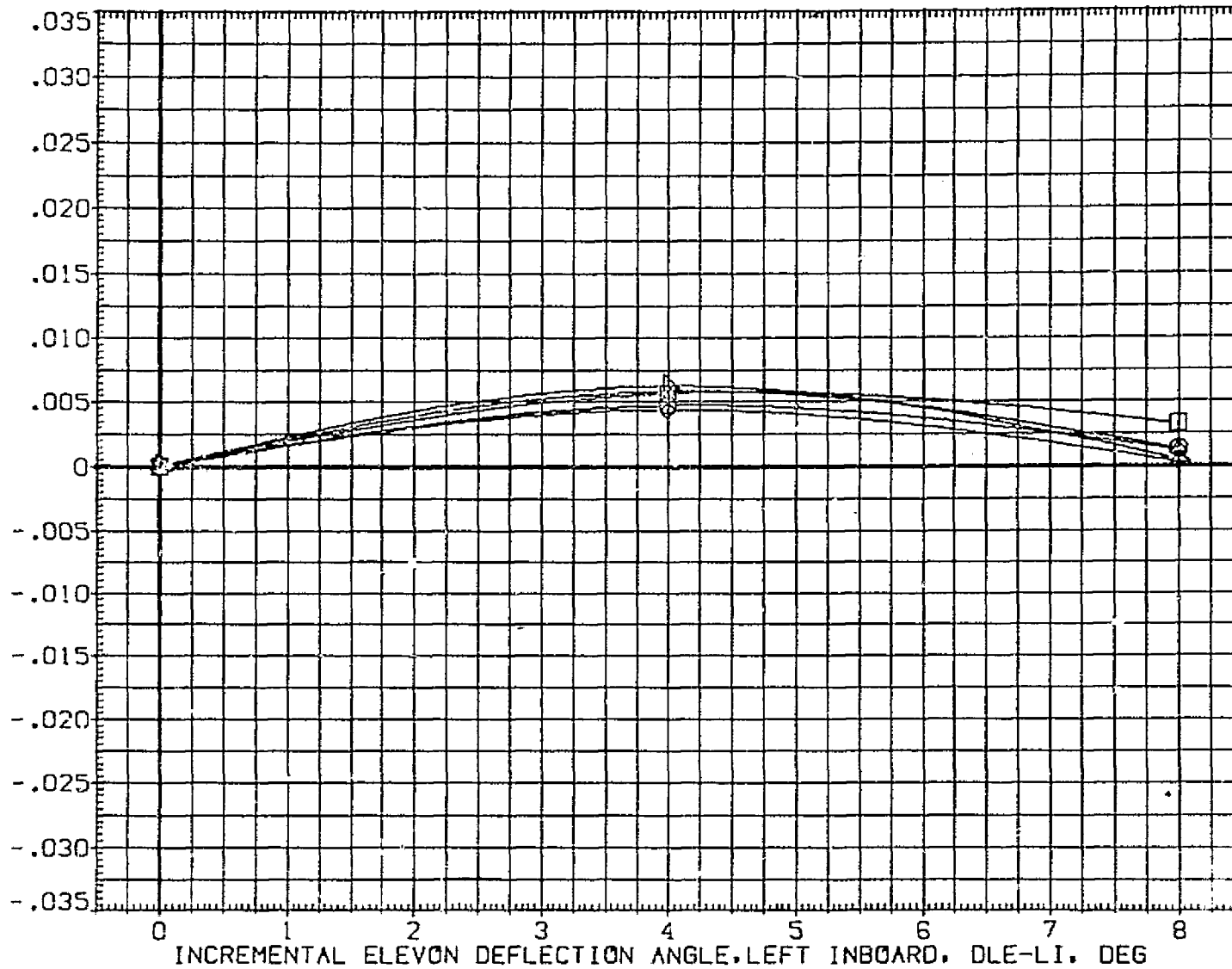


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
	ALPHA	MACH	BETA	SPDRK	DATASET	DLE-LI	DATASET	DLE-LI	SREF	SO.FT.	
○	-8.000	2.000	.000	.000	D-8003	.000	D-8017	4.000	2690.0000	90.00	IN. FT.
□	-4.000	.000	.000	.000	D-8014	8.000			1290.3000	90.00	IN. FT.
◇	.000	.000	.000	.000					1290.3000	90.00	IN. FT.
△	4.000								976.0000	90.00	IN. FT.
▽	8.000								.0000	90.00	IN. FT.
									400.0000	90.00	IN. FT.
									SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLICNF

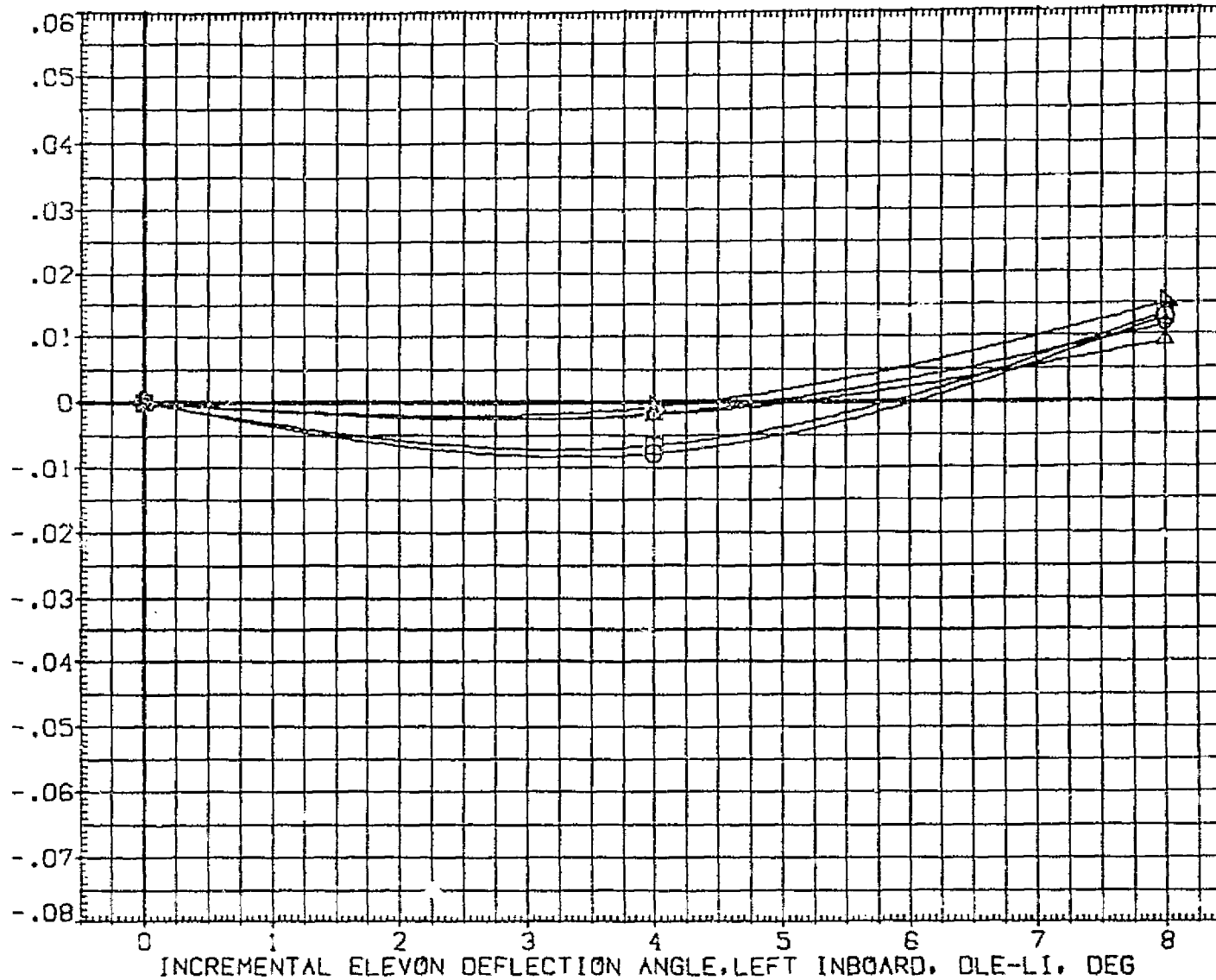


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
▽	-8.000	MACH 2.000	BETA .000 DATASET D-8003	SREF 2690.0000 SQ.FT.
◇	-4.000	RUDER .000	SPOBRK .000 D-8017	LREF 1290.3000 INCHES
◇	.000	BOFLAP .000	D-8014 8.000	BREF 1290.3000 INCHES
△	4.000			XMRP 976.0000 IN. XT
○	8.000			YMRP .0000 IN. YT
				ZMRP 400.0000 IN. ZT
				SCALE .0100

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

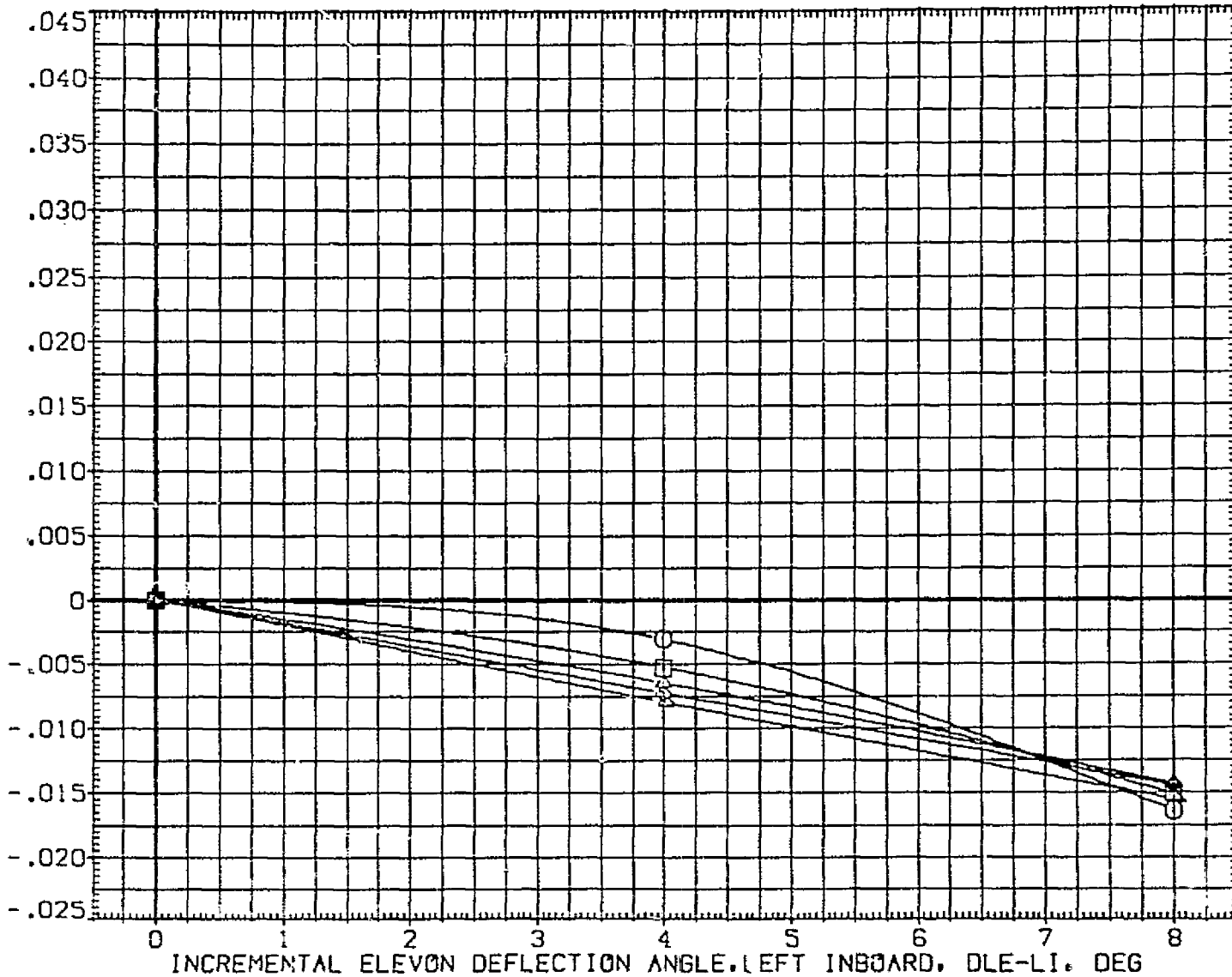


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
VΔOIJJO	-8.000	MACH	2.000	BETA	.000	DATASET	DLE-L1	DATASET	DLE-L1	SREF	2690.0000	50. FT.
	-4.000	RUDDER	.000	SPOBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
	4.000									XMRP	976.0000	IN. XT
	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

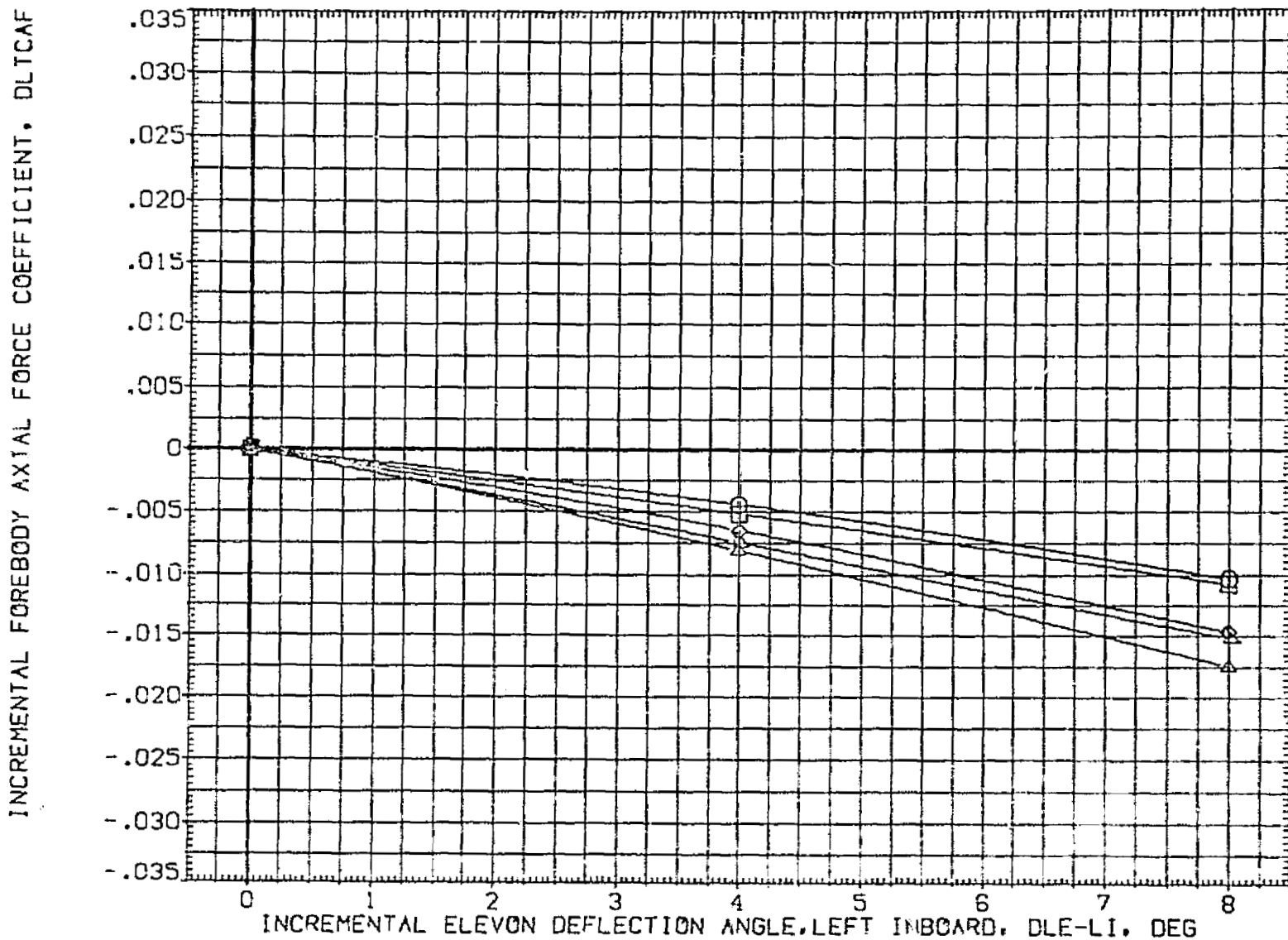


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	-8.000	MACH	2.500	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	50. FT.
□	-4.000	RUDDER	.000	SPOBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
△	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
◇	4.000									XMRP	976.0000	IN. XT
∇	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

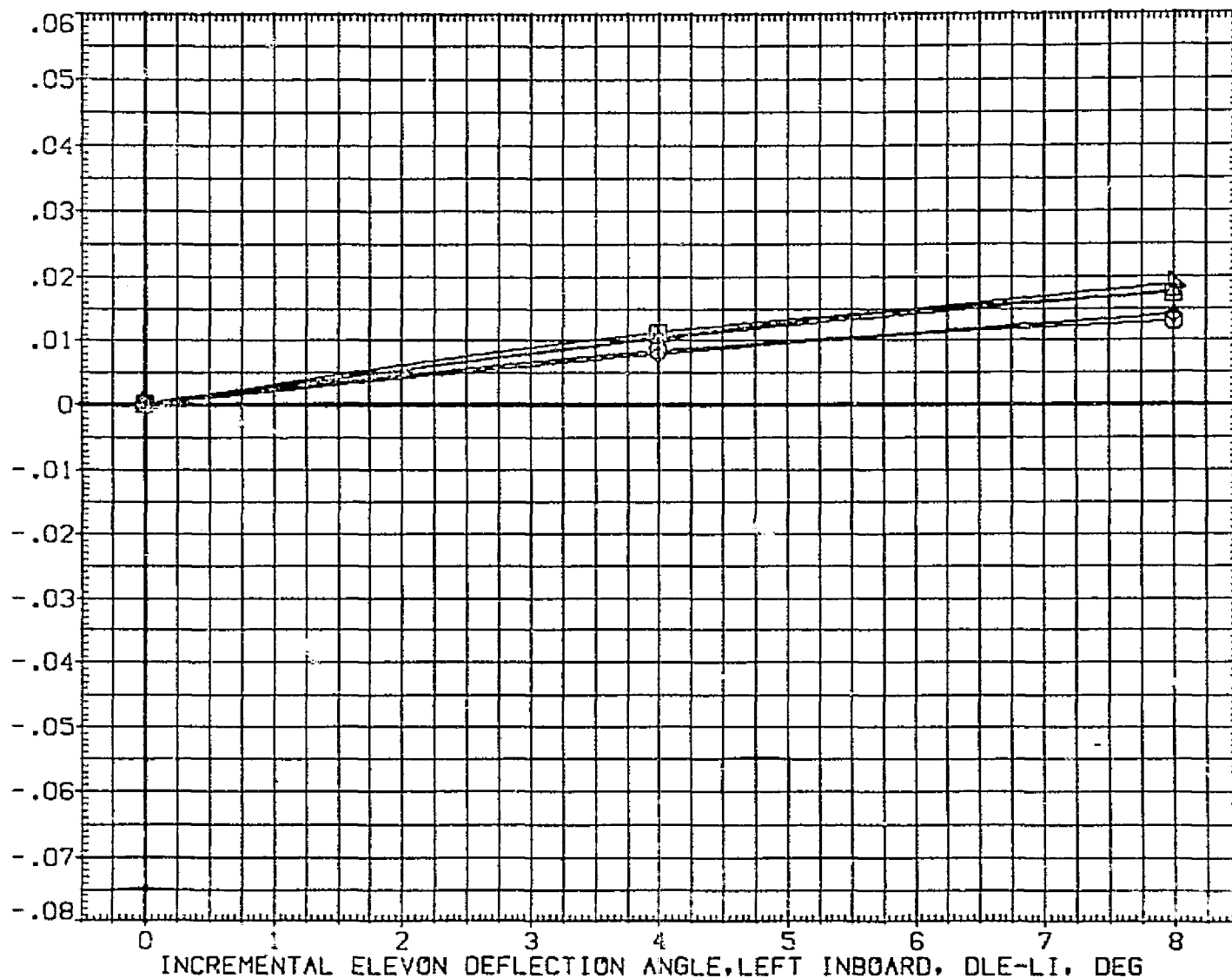


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
011027	-8.000	MACH	2.500	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	SO.FT.
	-4.000	RUDER	.000	SPOBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INC-ES
	.000	BDFLAP	.000			D-8014	8.000			BREF	1290.3000	INC-ES
	4.000									XREF	976.0000	IN. XT
	8.000									YREF	.0000	IN. YT
										ZREF	400.0000	IN. ZT
										SCALE	.0100	

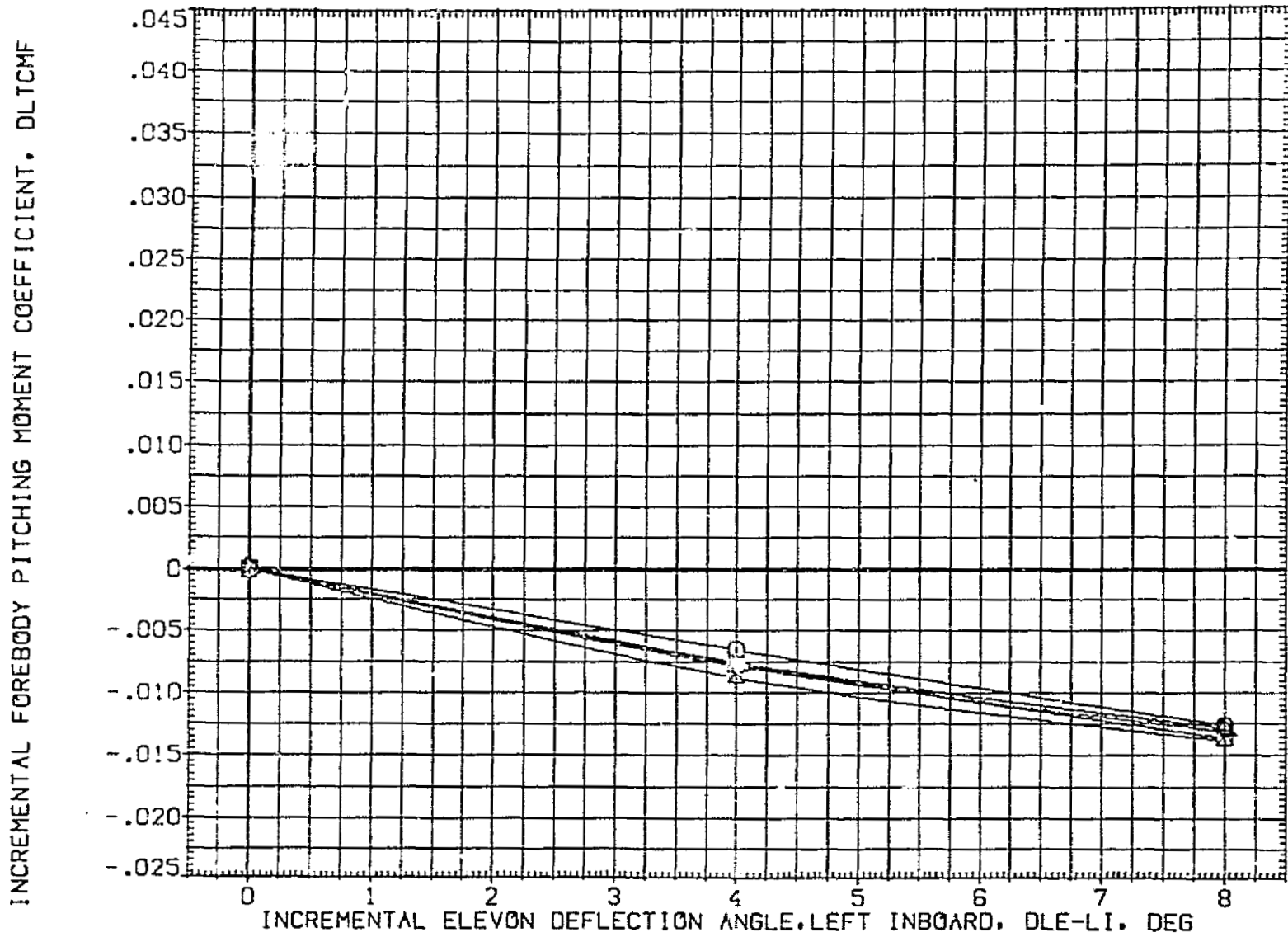


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DATA SOURCE	DATA SOURCE	REFERENCE INFORMATION
○	-8.000	2.500	BETA	.000	DATASET	DLE-LI	DATASET	SREF 2690.0000 SO.FT.
◇	-4.000	.000	SPDBRK	.000	D-8003	.000	D-8017	LREF 1290.3000 INCHES
□	.000	.000			D-8014	8.000		BREF 1290.3000 INCHES
△	4.000							XMRP 976.0000 IN. XT
▽	8.000							YMRP .0000 IN. YT
								ZMRP 400.0000 IN. ZT
								SCALE .0100

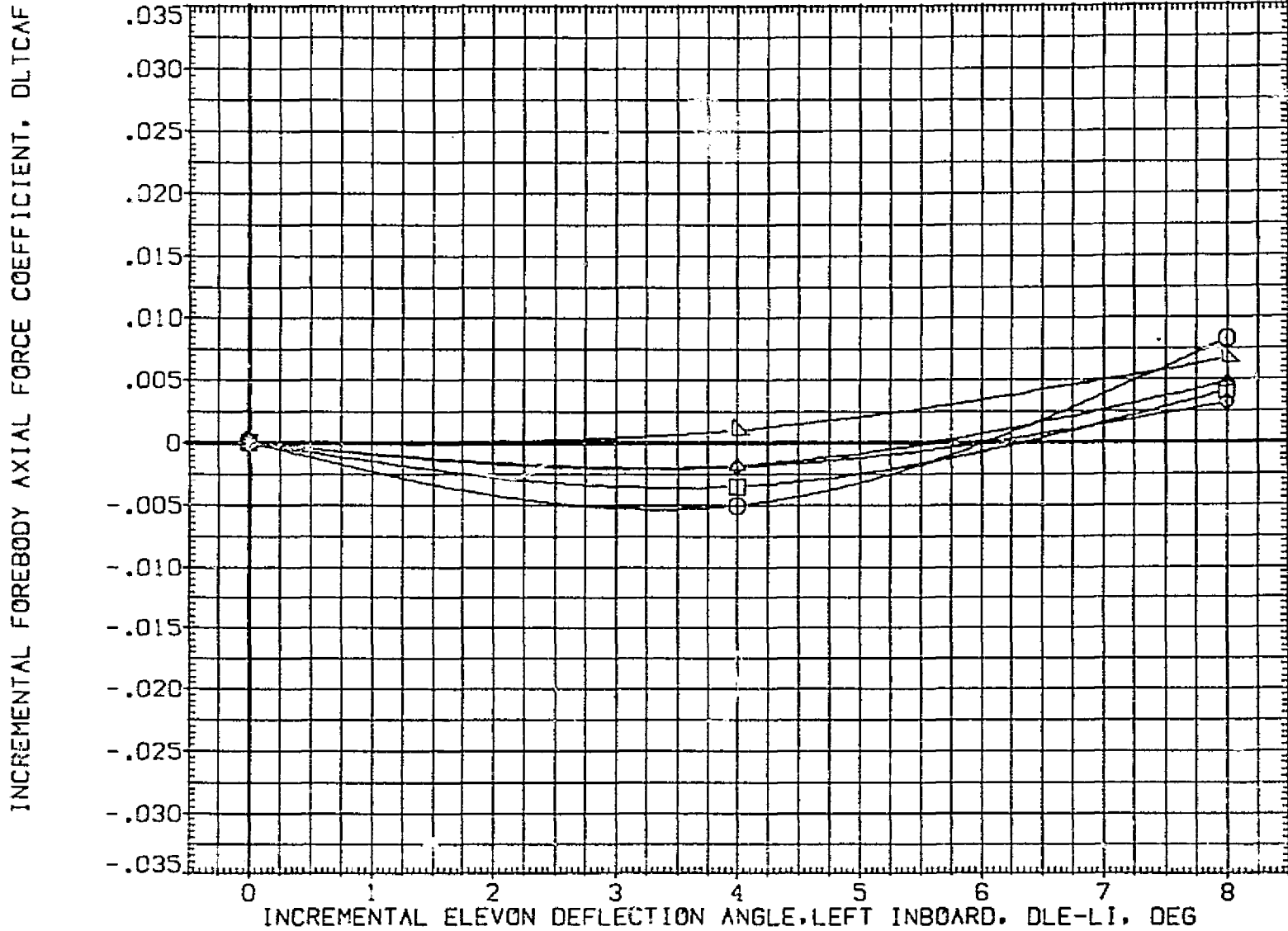


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION			
	Value	Parameter	Value	Parameter	Dataset	DLE-LI	Dataset	DLE-LI	SREF	SO.FT.	
◇	-8.000	MACH	2.860	BEYA	.000	D-8003	.000	D-8017	4.000	1290.3000	IN. FT.
◇	-4.000	RUDDER	.000	SPOBRN	.000	D-8014	8.000			1290.3000	IN. FT.
◇	.000	BOFLAP	.000							976.0000	IN. FT.
◇	4.000									.0000	IN. FT.
◇	8.000									400.0000	IN. FT.
										SCALE	.0100

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

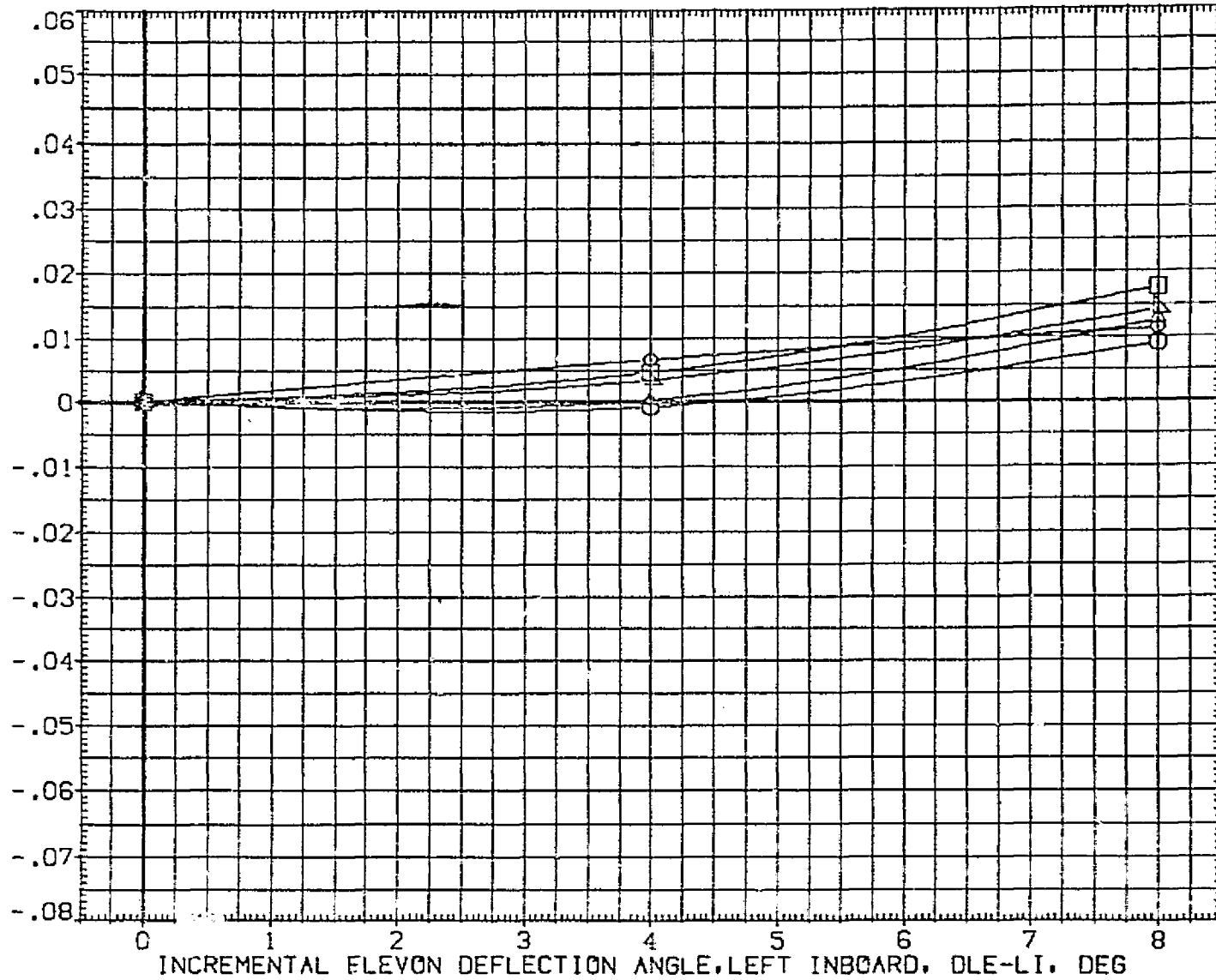


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
○	-8.000	MACH	2.860	BETA	.000	DATASET	DLE-L1	DATASET	DLE-L1	SREF	2690.0000	SO.F1.
◇	-4.000	RUDDER	.000	SPOBRK	.000	DH8003	.000	DH8017	4.000	LREF	1290.3000	INCHES
□	.000	BOFLAP	.000			DH8014	8.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

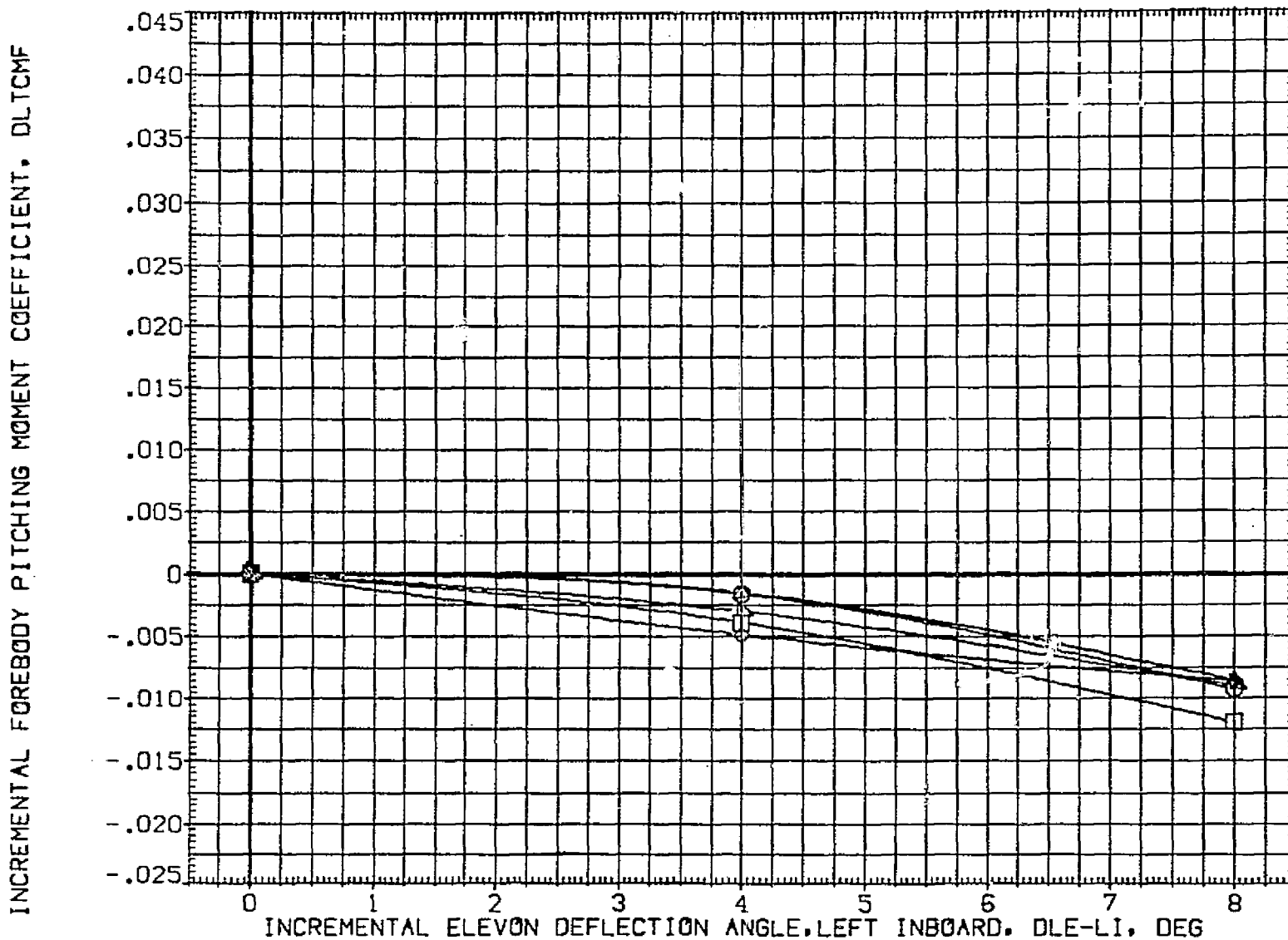


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION			
○	-8.000		3.900	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	50.FT.
□	-4.000	RUDDER	.000	SPOERK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

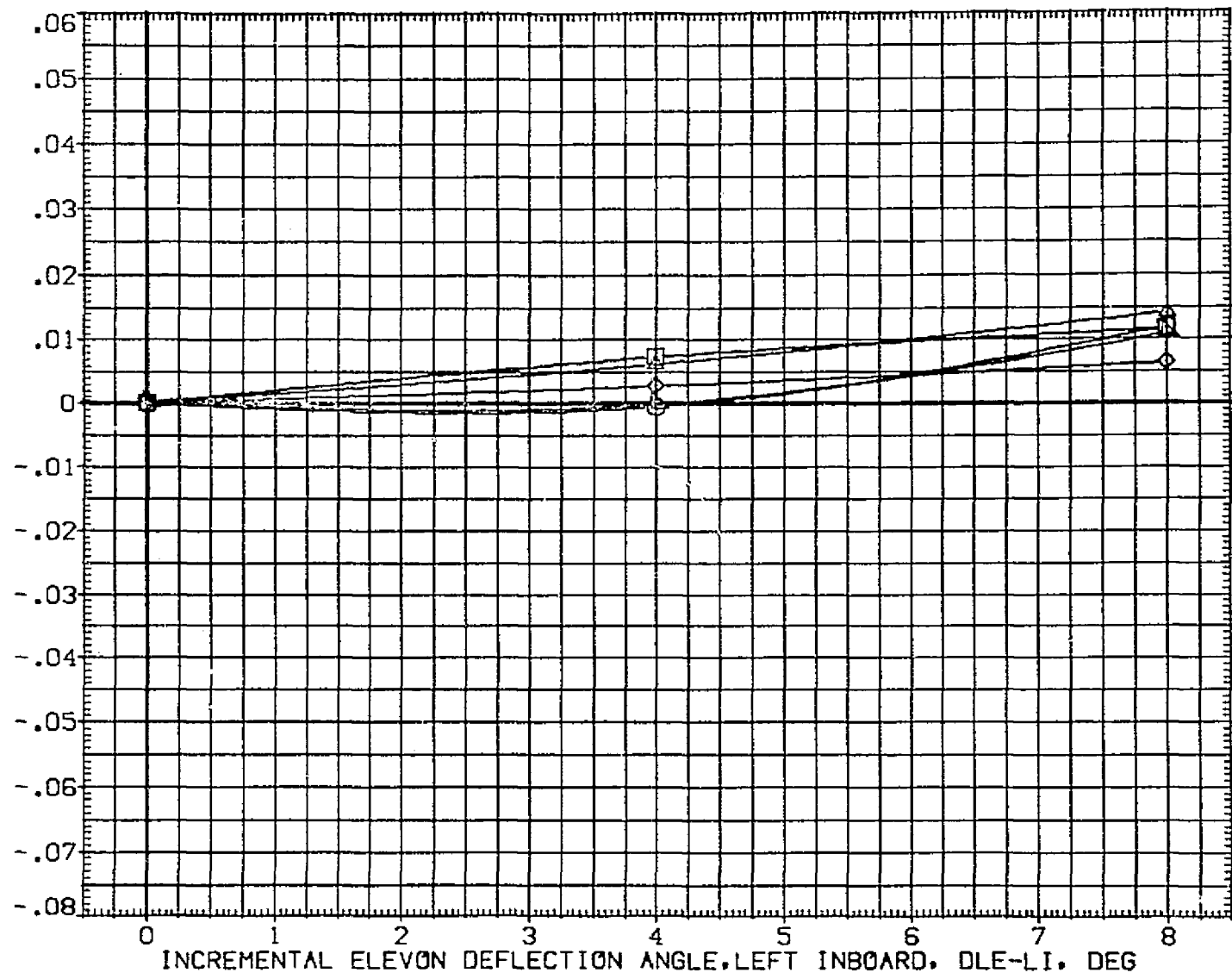


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION				
○	-8.000	MACH	3.900	BETA	.000	DATASET	DLE-LI	DATASET	DLE-LI	SREF	2690.0000	50. FT.
□	-4.000	RUDDER	.000	SPOBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

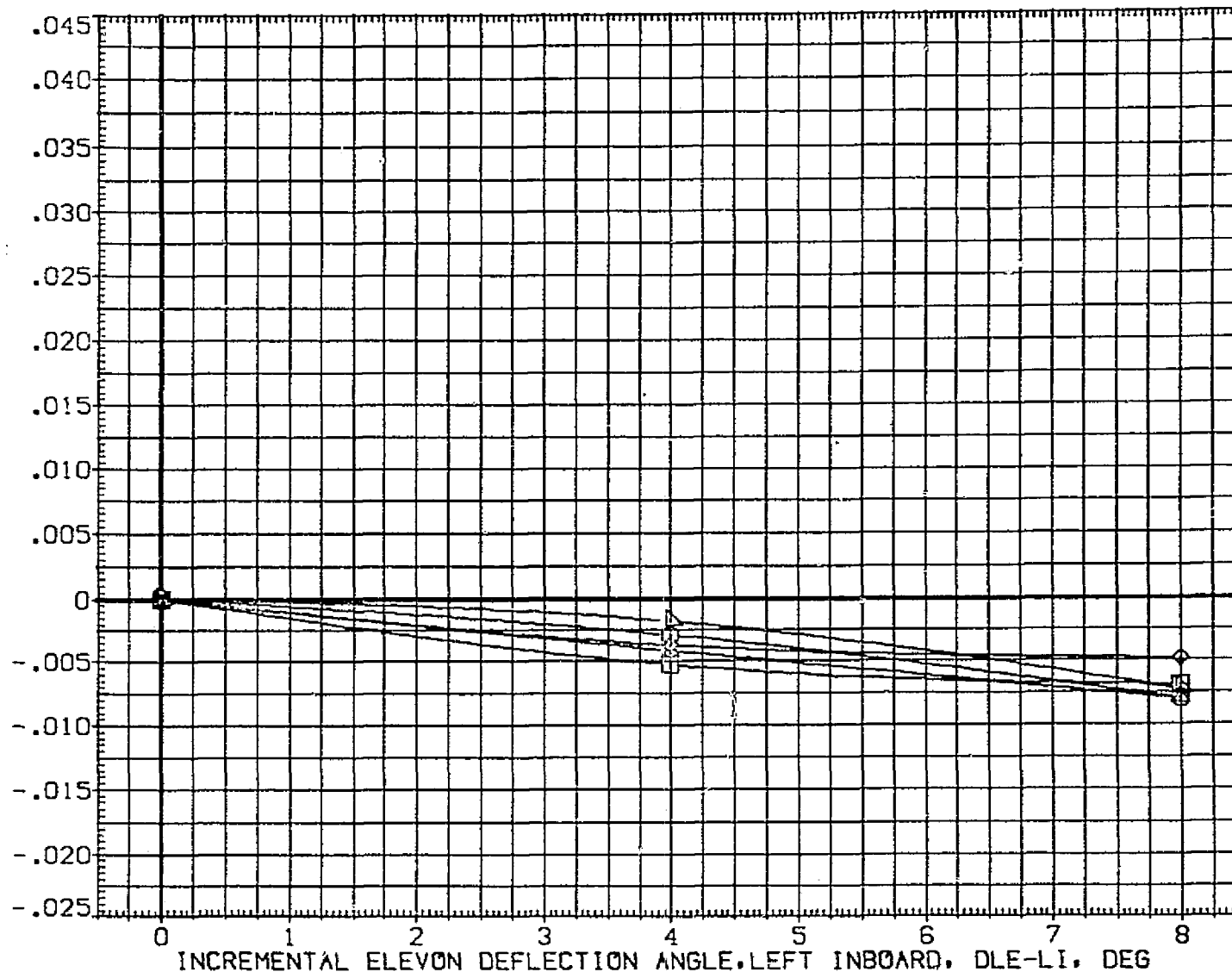


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	-8.000	MACH	3.900	BETA	.000	DATASET	DLE-L1	DATASET	DLE-L1	SREF	2690.0000	50. FT.
□	-4.000	PUDDER	.000	SPDBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
◇	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
▽	8.000									YMRP	.0000	IN. YT
										ZMRP	400.0000	IN. ZT
										SCALE	.0100	

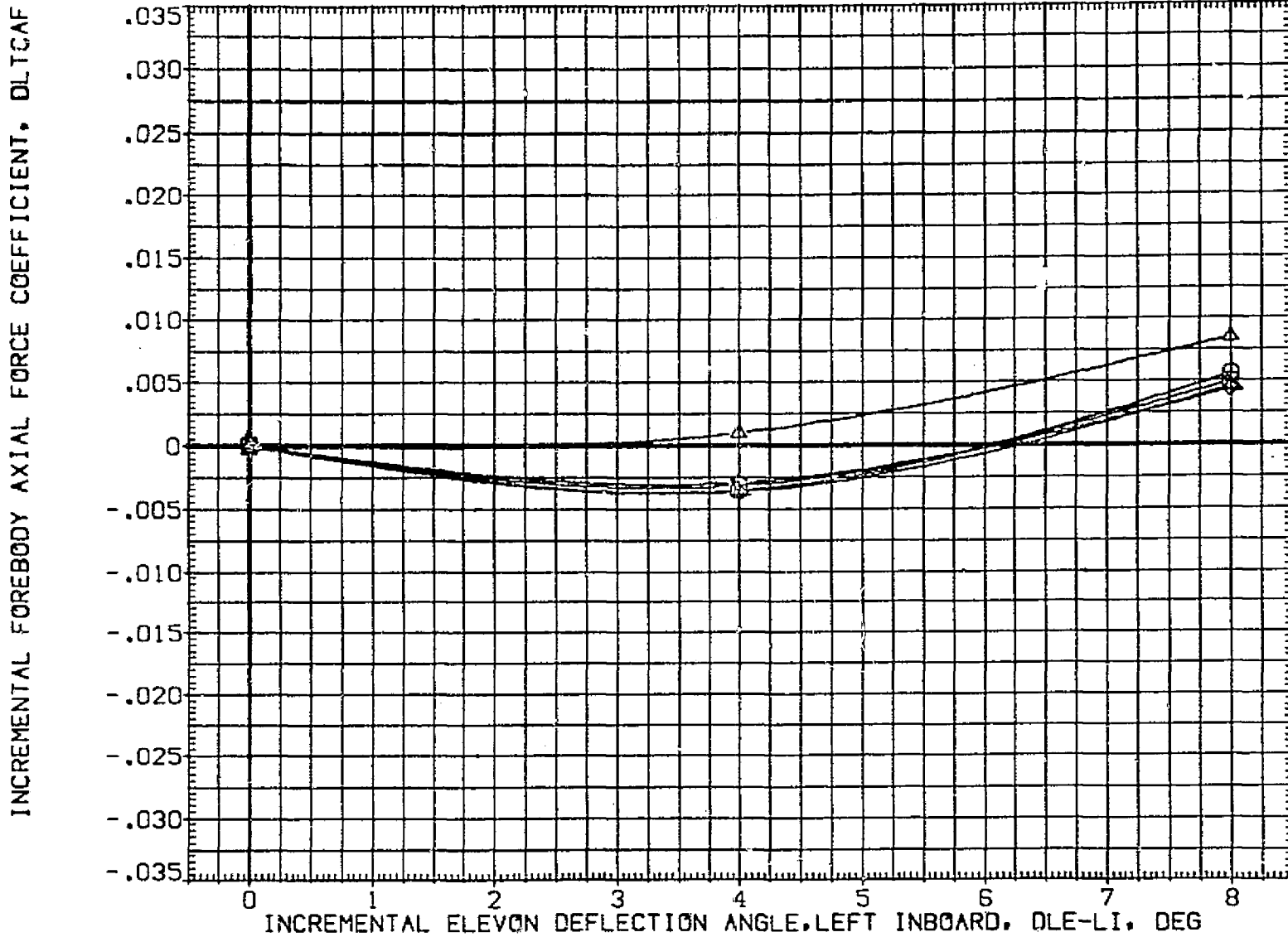


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BETA	DATASET	DLE-LI	DATASET	DLE-LI	SREF	SO.FT.
▽◇□△	-8.000	4.600	.000	.000	DH8003	.000	D-8017	4.000	2690.0000	80.00
	-4.000	.000	.000	.000	DH8003	.000			1290.3000	INCHES
	.000	BDFLAP	.000	SPDBRK	D-8014	8.000			1290.3000	INCHES
	4.000								976.0000	IN. XT
	8.000								.0000	IN. YT
									400.0000	IN. ZT
									SCALE	.0100

INCREMENTAL FOREBODY NORMAL FORCE COEFFICIENT, DLTCNF

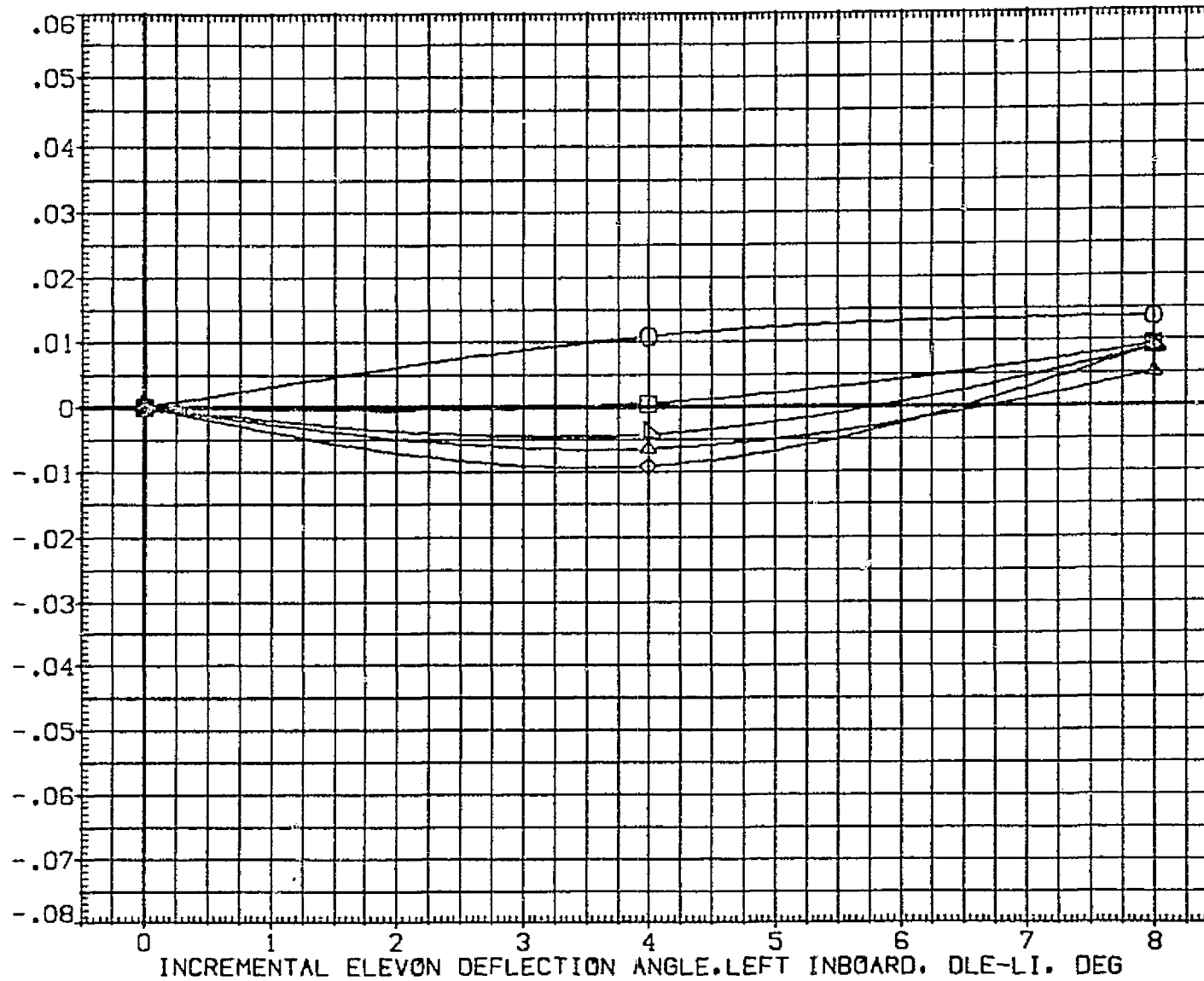


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7 (DH8003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
▽	-8.000		4.600	BETA	.000	DATASET	DLE-L1	DATASET	DLE-L1	SREF	2690.0000	50.FT.
◇	-4.000	RUDER	.000	SPOBRK	.000	D-8003	.000	D-8017	4.000	LREF	1290.3000	INCHES
□	.000	BOFLAP	.000			D-8014	8.000			BREF	1290.3000	INCHES
△	4.000									XMRP	976.0000	IN. XT
○	8.000									YMRP	.0000	IN. YT
										ZMRP	100.0000	IN. ZT
										SCALE	.0100	

INCREMENTAL FOREBODY PITCHING MOMENT COEFFICIENT, DLTCMF

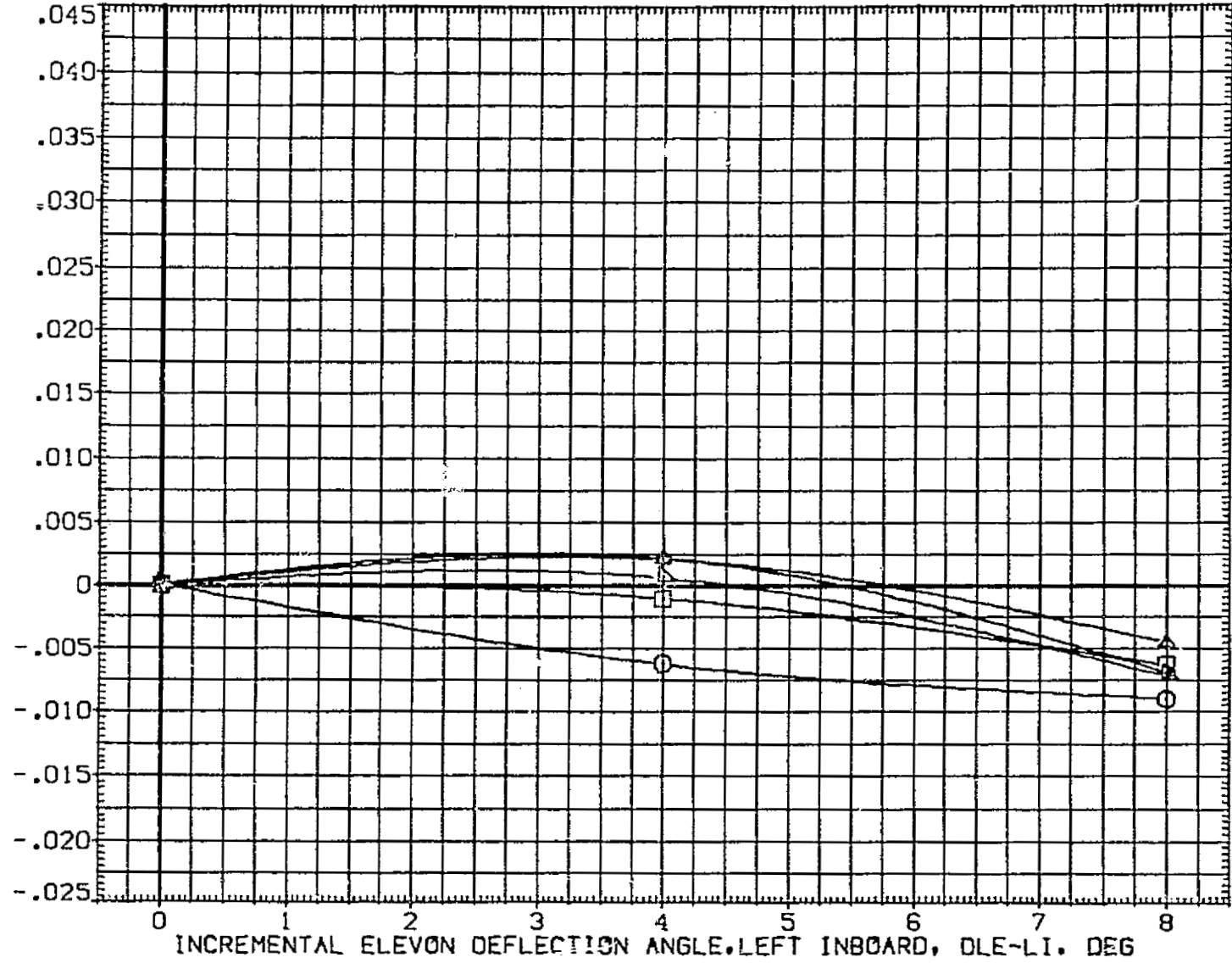


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION					
○	-8.000		4.600	BETA	.000	D-8003	DLE-L1	.000	D-8017	4.000	SREF	2690.0000	50. FT.
◇	-4.000	RLODGR	.000	SPOBRK	.000	D-8014	8.000				LREF	1290.3000	INC-ES
△	.000	BOFLAP	.000								BREF	1290.3000	INC-ES
▽	4.000										XMRP	975.0000	IN. XT
	8.000										YMRP	.0000	IN. YT
											ZMRP	400.0000	IN. ZT
											SCALE	.0100	

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DLICAF

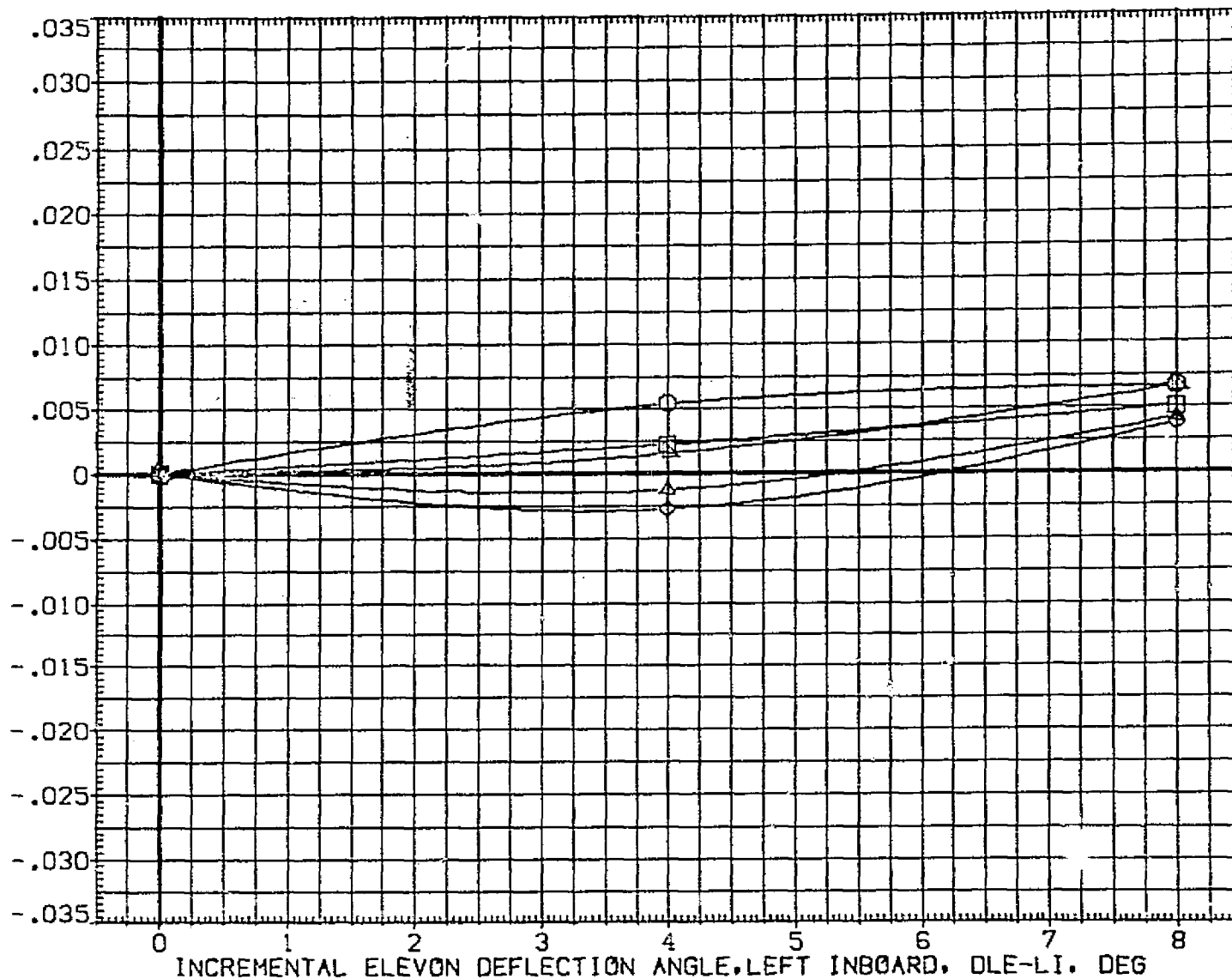


FIGURE 16 LAUNCH VEHICLE INCREMENTAL LONG. CHARACT DUE TO INBOARD ELEVON DEFL.

APPENDIX
TABULATED SOURCE DATA

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

UPWT 1039/1110 (IA-44) CONFIGURATION T4/S7 (XHS001) (03 JAN 75)

REFERENCE DATA

SREF = 2000.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1200.3000 INCHES YMRP = .0000 IN. YT
BREF = 1200.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
SRB = 1.000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFSRB, CFSMS, CFTC, CFSRB, CFSRBN, CPET. Rows 1-13 show data for MACH 1.000 to 1.600, and a final row for GRADIENT.

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFSRB, CFSMS, CFTC, CFSRB, CFSRBN, CPET. Rows 1-13 show data for MACH 2.000 to 2.600, and a final row for GRADIENT.

ORIGINAL PAGE IS OF POOR QUALITY

UFWT 1033/1119 (IA-44) CONFIGURATION T4/57

(XHB001) (03 JAN 75)

REFERENCE DATA

BRFC = 3600.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1200.0000 INCHES YMRP = .0000 IN. YT
 BRFC = 1200.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CPIC	CPSRB	CPSRBN	CPET
2.500	-10.503	-.01732	-.46325	.22130	.13167	-.05530	-.07038	-.14600	-.17915	-.18619	-.15504
2.500	-8.439	-.01717	-.35525	.21974	.09551	-.05910	-.08999	-.13953	-.17788	-.18977	-.14733
2.500	-6.375	-.01745	-.25456	.21761	.06489	-.07427	-.10299	-.13492	-.17553	-.17467	-.14192
2.500	-4.320	-.01640	-.17238	.21577	.04674	-.07922	-.10057	-.13347	-.17446	-.16781	-.13775
2.500	-2.261	-.01670	-.09610	.21441	.03283	-.08177	-.11000	-.13234	-.17373	-.16297	-.13653
2.500	-1.210	-.01792	-.04335	.21350	.02792	-.08120	-.10001	-.13000	-.17370	-.15305	-.13073
2.500	-.200	-.01742	-.02576	.21335	.01852	-.08000	-.10753	-.12502	-.17340	-.16435	-.13000
2.500	.012	-.01750	-.01161	.21482	.00796	-.08324	-.10480	-.13195	-.17457	-.15943	-.14302
2.500	1.840	-.01550	.04513	.21652	.00091	-.07979	-.09006	-.13634	-.17219	-.15557	-.14741
2.500	3.337	-.01502	.11511	.21843	-.01238	-.08039	-.09713	-.13559	-.17483	-.15400	-.14833
2.500	5.040	-.01555	.20275	.22007	-.03232	-.08339	-.10264	-.13501	-.17776	-.17077	-.14748
2.500	8.007	-.01538	.30934	.21908	-.05247	-.08585	-.10986	-.13437	-.17913	-.18102	-.14853
2.500	10.075	-.01555	.40726	.21787	-.08017	-.08976	-.11272	-.13073	-.18527	-.19163	-.14250
	GRADIENT	.00006	.03503	.00038	-.00742	-.00012	.00177	-.00052	.00002	.00067	-.00163

RUN NO. 0/0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CPIC	CPSRB	CPSRBN	CPET
2.860	-10.251	-.01871	-.43746	.20548	.12979	-.05240	-.06461	-.13451	-.14540	-.16025	-.14026
2.860	-8.200	-.01871	-.34054	.20344	.08865	-.06009	-.07583	-.12528	-.14788	-.15763	-.13130
2.860	-5.147	-.01803	-.24784	.20085	.06897	-.07119	-.08424	-.12446	-.14791	-.15354	-.12836
2.860	-4.031	-.01910	-.16195	.20079	.04603	-.07339	-.09758	-.12146	-.14579	-.14755	-.12424
2.860	-2.018	-.01880	-.09144	.19942	.03191	-.07642	-.09345	-.11850	-.14384	-.14303	-.12277
2.860	-1.026	-.01845	-.05910	.19851	.02520	-.07707	-.09754	-.11844	-.14492	-.14155	-.12458
2.860	.001	-.01843	-.02459	.19883	.01760	-.07737	-.09330	-.11693	-.14865	-.14569	-.12585
2.860	1.010	-.01800	.01410	.20040	.00640	-.07360	-.09005	-.12070	-.14541	-.14543	-.12303
2.860	2.033	-.01802	.04524	.20258	-.00073	-.07701	-.09040	-.12447	-.14717	-.14570	-.13433
2.860	4.032	-.01694	.11522	.20400	-.01489	-.07705	-.08556	-.12404	-.14851	-.14979	-.13332
2.860	5.140	-.01742	.20157	.20492	-.03620	-.07710	-.08997	-.12220	-.15161	-.15427	-.13244
2.860	8.193	-.01637	.29838	.20200	-.05313	-.08312	-.09574	-.12260	-.15273	-.15914	-.13200
2.860	10.241	-.01579	.39620	.20070	-.08100	-.08424	-.09010	-.12331	-.15644	-.16323	-.13134
	GRADIENT	.00023	.03302	.00049	-.00766	-.00045	.00178	-.00057	-.00006	.00044	-.00155

JWHT 1030/1110 (IA-44) CONFIGURATION

T4/S7

(XHS001) (03 JAN 75)

REFERENCE DATA

STEP = 2000.0000 SQ.FT. XWRP = 975.0000 IN. XT
 LREF = 1200.3000 INCHES YWRP = 1.0000 IN. YT
 BRFC = 1200.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CPIC	CPSRB	CPSRBN	CPEI
3.000	-10.100	-.01057	-.36253	.16528	.10482	-.01009	-.04955	-.11038	-.10071	-.12268	-.11405
3.000	-8.073	-.01084	-.28512	.16306	.08102	-.05837	-.05341	-.10852	-.10316	-.12072	-.11061
3.000	-6.046	-.01020	-.21205	.16209	.05023	-.05572	-.06480	-.10754	-.10707	-.12122	-.10353
3.000	-4.020	-.01052	-.14551	.16293	.04234	-.07152	-.07218	-.10459	-.10853	-.11974	-.10765
3.000	-1.984	-.01083	-.08538	.16361	.02852	-.07457	-.07415	-.10311	-.10756	-.11777	-.10658
3.000	-.970	-.01020	-.05774	.16204	.02281	-.07900	-.07850	-.10311	-.10706	-.11578	-.10815
3.000	.048	-.01057	-.02709	.16178	.01607	-.08439	-.08350	-.10115	-.10558	-.11433	-.10568
3.000	1.056	-.01080	-.00317	.16306	.00592	-.08783	-.08138	-.10508	-.10804	-.11629	-.10854
3.000	2.077	-.01064	-.03382	.16528	.00044	-.08784	-.08285	-.10557	-.10657	-.11580	-.10913
3.000	4.104	-.01084	-.09717	.16547	-.01380	-.07949	-.08892	-.10557	-.10755	-.11578	-.10913
3.000	6.136	-.01010	-.16609	.16550	-.03225	-.07493	-.07957	-.10508	-.10902	-.11924	-.10854
3.000	8.170	-.01084	-.24073	.16478	-.05461	-.07554	-.08203	-.10459	-.11097	-.12022	-.10765
3.000	10.205	-.01054	-.31973	.16488	-.07941	-.08292	-.08793	-.10555	-.11195	-.12072	-.10913
	GRADIENT	.00011	.02932	.00046	-.00687	-.00157	-.00275	-.00025	.00012	.00038	-.00026

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CPIC	CPSRB	CPSRBN	CPEI
4.600	-9.544	-.01077	-.33539	.15151	.00130	-.06564	-.07494	-.10524	-.09675	-.11489	-.10829
4.600	-7.515	-.01054	-.26276	.15007	.07921	-.07504	-.07996	-.10537	-.10112	-.11615	-.10326
4.600	-5.488	-.01090	-.19543	.14935	.05261	-.07991	-.07934	-.10525	-.10425	-.11554	-.10827
4.600	-3.464	-.01084	-.13045	.14963	.03757	-.08293	-.08184	-.10371	-.10421	-.11209	-.10573
4.600	-1.443	-.01051	-.07903	.14575	.02702	-.08320	-.08875	-.10372	-.10485	-.11237	-.10511
4.600	.433	-.01028	-.04933	.14628	.02115	-.08421	-.08440	-.10120	-.10421	-.11173	-.10447
4.600	1.573	-.01086	-.02334	.14584	.01461	-.08510	-.08754	-.10247	-.10485	-.11237	-.10511
4.600	1.507	-.01097	-.00567	.14713	.00775	-.08860	-.10005	-.10183	-.10421	-.11173	-.10573
4.600	2.601	-.01020	-.03703	.14923	.00081	-.08860	-.10005	-.10309	-.10421	-.11173	-.10573
4.600	4.616	-.01090	-.08754	.14991	-.00359	-.08234	-.08318	-.10499	-.10611	-.11427	-.10753
4.600	6.646	-.01090	-.15453	.14774	-.02816	-.08731	-.08564	-.10433	-.10670	-.11435	-.10551
4.600	8.661	-.01055	-.21703	.14665	-.04730	-.08235	-.08319	-.10525	-.10851	-.11617	-.10714
4.600	10.698	-.01013	-.29418	.14020	-.06357	-.08971	-.08941	-.10521	-.10794	-.11435	-.10322
	GRADIENT	.00011	.02732	.00007	-.00500	-.00143	-.00221	-.00011	-.00015	-.00039	-.00024

UPWT 1095/1113 (IA-44) CONFIGURATION T4/S7

(XHS002) (03 JAN 75)

REFERENCE DATA

XREF = 2600.0000 52.FT. XMRP = 976.0000 IN. XT
 YREF = 1200.3000 INCHES YMRP = .0000 IN. YT
 ZREF = 1200.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CPDRB	CPDMS	OPTC	CPSRB	CPSRBN	CPET
1.000	-10.228	.00011	-.03006	-.29041	.02914	.00000	.00000	-.18975	-.32407	-.27213	-.20694
1.000	-8.204	.03419	-.03280	-.28632	.02835	.00000	.00000	-.17737	-.32035	-.26063	-.19763
1.000	-6.162	.03294	-.03281	-.28445	.02842	.00000	.00000	-.17437	-.31214	-.24929	-.19183
1.000	-4.123	.03001	-.03589	-.28216	.03134	.00000	.00000	-.17221	-.29824	-.23559	-.18936
1.000	-2.044	.03008	-.03315	-.28010	.03075	.00000	.00000	-.17010	-.28552	-.22357	-.19005
1.000	-.065	.03267	-.03368	-.27729	.02960	.00000	.00000	-.16031	-.26718	-.20522	-.18790
1.000	1.972	.03799	-.03719	-.27657	.03009	.00000	.00000	-.16171	-.25623	-.19242	-.18413
1.000	4.020	.03627	-.03874	-.27790	.02888	.00000	.00000	-.16115	-.24977	-.18315	-.18605
1.000	6.033	.03053	-.04031	-.28033	.02753	.00000	.00000	-.16347	-.24258	-.17720	-.18977
1.000	8.120	.03709	-.03546	-.28337	.02575	.00000	.00000	-.16886	-.23259	-.17281	-.19333
1.000	10.265	.03112	-.04038	-.28478	.02587	.00000	.00000	-.17756	-.22515	-.17222	-.20162
	GRADIENT	-.00052	-.00038	-.00050	-.00027	.00000	.00000	.00150	-.00620	.00579	.00061

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CPDRB	CPDMS	OPTC	CPSRB	CPSRBN	CPET
2.000	-10.223	.59728	-.00559	-.25514	.01717	.00000	.00000	-.13540	-.24043	-.19413	-.14809
2.000	-8.219	.60107	-.00482	-.25265	.01682	.00000	.00000	-.12554	-.23734	-.19166	-.14160
2.000	-6.178	.57919	-.00230	-.25037	.01554	.00000	.00000	-.11841	-.23176	-.18793	-.13538
2.000	-4.145	.53825	-.00356	-.24834	.01573	.00000	.00000	-.11841	-.22589	-.17895	-.13600
2.000	-2.070	.53601	-.00187	-.24703	.01552	.00000	.00000	-.11451	-.21792	-.16700	-.13735
2.000	-.031	.57854	-.00514	-.24386	.01610	.00000	.00000	-.11259	-.20799	-.15767	-.13541
2.000	1.094	.53157	-.00452	-.24395	.01579	.00000	.00000	-.11373	-.19558	-.14770	-.13069
2.000	4.032	.53082	-.00402	-.24648	.01466	.00000	.00000	-.11716	-.18973	-.14526	-.13227
2.000	6.037	.50505	-.00421	-.24320	.01540	.00000	.00000	-.11679	-.18031	-.14490	-.13160
2.000	8.106	.53533	-.00435	-.25038	.01582	.00000	.00000	-.12180	-.18081	-.14002	-.13476
2.000	10.212	.57406	-.00534	-.25339	.01680	.00000	.00000	-.10230	-.18327	-.13911	-.14406
	GRADIENT	-.00064	-.00017	-.00033	-.00003	.00000	.00000	.00316	-.00463	.00424	.00072

UPWT 1088/1119 (IA-44) CONFIGURATION T4/S7

(XHS992) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SFB = 1.000

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.133	-.01397	-.03280	.20592	.02074	-.09550	-.11485	-.13533	-.15127	-.16139	-.14219
2.860	-8.118	-.01591	-.02976	.20410	.01954	-.08951	-.10661	-.13047	-.14930	-.16102	-.13995
2.860	-6.100	-.02041	-.02899	.20343	.01927	-.09276	-.10724	-.12709	-.14977	-.15977	-.13583
2.860	-4.052	-.01338	-.02716	.20106	.01853	-.09157	-.09382	-.12256	-.15199	-.15577	-.13132
2.860	-2.010	-.01445	-.02871	.19891	.01978	-.09419	-.09393	-.11995	-.14938	-.15353	-.12945
2.860	-.018	-.01287	-.02693	.19764	.01816	-.07835	-.09393	-.11741	-.14608	-.14646	-.12765
2.860	2.014	-.01556	-.02950	.19692	.01892	-.07805	-.10258	-.11746	-.14462	-.14462	-.12619
2.860	4.046	-.01347	-.02768	.19905	.01828	-.07949	-.10329	-.11743	-.14312	-.14013	-.12617
2.860	6.096	-.01108	-.02902	.20247	.01882	-.09059	-.09282	-.12339	-.14312	-.13788	-.13138
2.860	8.126	-.01059	-.03047	.20465	.02051	-.08735	-.09622	-.12827	-.14462	-.13753	-.13513
2.860	10.241	-.01076	-.03076	.20523	.02059	-.09774	-.11149	-.13272	-.14386	-.13714	-.14220
GRADIENT		-.00005	-.00009	-.00030	-.00002	.00051	-.00137	.00063	.00111	.00199	.00067

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.092	.03912	-.02945	.16954	.01462	-.08784	-.09394	-.11147	-.11048	-.11727	-.11306
3.900	-8.107	.04008	-.03003	.16702	.01585	-.08892	-.09334	-.11049	-.10901	-.11825	-.11208
3.900	-6.080	.03858	-.03070	.16554	.01677	-.08783	-.09236	-.10902	-.10951	-.11976	-.11160
3.900	-4.040	.03947	-.03147	.16379	.01737	-.08539	-.09099	-.10753	-.10901	-.11874	-.10962
3.900	-2.006	.04077	-.03218	.16303	.01820	-.08784	-.09433	-.10409	-.10952	-.11824	-.10913
3.900	-.019	.04055	-.03147	.16202	.01803	-.08637	-.09187	-.10212	-.10803	-.11677	-.10753
3.900	2.006	.04031	-.02940	.16033	.01800	-.08195	-.08843	-.10360	-.10705	-.11578	-.10814
3.900	4.031	.04095	-.03013	.16307	.01734	-.08096	-.08843	-.10507	-.10510	-.11530	-.10864
3.900	6.073	.04373	-.03397	.16517	.01845	-.08244	-.09236	-.10901	-.10511	-.11677	-.11209
3.900	8.113	.04294	-.03480	.16603	.01903	-.08391	-.09580	-.10999	-.10755	-.11579	-.11257
3.900	10.199	.03925	-.03269	.15743	.01627	-.09078	-.09974	-.11146	-.10901	-.11578	-.11404
GRADIENT		.00022	.00027	-.00020	-.00009	.00073	.00054	.00027	.00046	.00046	.00015

ORIGINAL PAGE IS OF POOR QUALITY.

UPWT 1089/1119 (IA-44) CONFIGURATION T4/S7

(KH8002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. D/ D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CPRB	CPMS	CPYC	CPSRB	CPSRB4	CPET
4.600	-10.087	.57008	-.02539	.15271	.01380	-.09736	-.09692	-.10913	-.10798	-.11239	-.10888
4.600	-8.070	.57166	-.02649	.15041	.01475	-.09609	-.09564	-.10810	-.10545	-.11235	-.10948
4.600	-6.066	.56890	-.02763	.14925	.01589	-.09500	-.09882	-.10940	-.10549	-.11428	-.11013
4.600	-4.031	.56912	-.02512	.14702	.01499	-.09797	-.10005	-.10911	-.10484	-.11362	-.10896
4.600	-1.982	.56697	-.02818	.14584	.01684	-.09881	-.10132	-.10562	-.10611	-.11301	-.10700
4.600	-.020	.56686	-.02571	.14490	.01550	-.09799	-.10194	-.10372	-.10609	-.11237	-.10574
4.600	1.982	.57991	-.02312	.14368	.01452	-.09422	-.09943	-.10372	-.10422	-.11175	-.10636
4.600	4.041	.57957	-.02821	.14534	.01651	-.09297	-.10006	-.10697	-.10423	-.11301	-.10899
4.600	6.059	.58100	-.02760	.14721	.01663	-.09046	-.09817	-.10686	-.10298	-.11237	-.10887
4.600	8.054	.57297	-.02710	.14810	.01572	-.09495	-.10007	-.10977	-.10612	-.11303	-.11015
4.600	9.946	.57279	-.02660	.14842	.01484	-.09611	-.10132	-.10976	-.10611	-.11239	-.11014
	GRADIENT	.00169	-.00006	-.00027	.00005	.00072	.00009	.00022	.00015	.00012	.00003

UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/57

(XH0003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CFTC	CFSR8	CFSR5N	CFET
1.600	-10.629	-.06413	-.78137	.46130	.30659	-.21844	-.23445	-.20880	-.32479	-.28694	-.28138
1.600	-8.544	-.06625	-.61501	.45909	.23695	-.22052	-.23745	-.21026	-.32170	-.28262	-.27338
1.600	-6.431	-.06478	-.45709	.45185	.17569	-.21557	-.23123	-.20564	-.31597	-.27268	-.26468
1.600	-4.629	-.06582	-.33268	.44669	.12909	-.21389	-.22732	-.20570	-.30901	-.26786	-.26199
1.600	-2.232	-.06446	-.18126	.44584	.07095	-.20960	-.21576	-.20637	-.31170	-.26299	-.26586
1.600	-1.180	-.06497	-.11763	.44448	.04810	-.21334	-.21769	-.21041	-.31521	-.26433	-.27004
1.600	-.119	-.06592	-.04540	.44374	.02230	-.21429	-.21803	-.21196	-.31797	-.26405	-.26976
1.600	.931	-.06589	.02005	.44369	-.00216	-.21539	-.21629	-.21418	-.32108	-.26595	-.26770
1.600	7.977	-.06569	.07617	.44148	-.02300	-.21642	-.21620	-.21531	-.32102	-.27045	-.26519
1.600	4.075	-.06660	.19884	.43644	-.07480	-.20529	-.20563	-.20398	-.33206	-.28090	-.25127
1.600	6.165	-.06577	.31280	.43501	-.11824	-.20167	-.20261	-.20087	-.33238	-.27768	-.24794
1.600	8.269	-.06641	.43592	.43480	-.16154	-.20447	-.20664	-.20215	-.33090	-.27519	-.24312
1.600	10.454	-.06631	.56378	.43299	-.20276	-.20681	-.20929	-.20388	-.33876	-.28060	-.24334
GRADIENT		-.00014	.06131	-.00110	-.02314	.00040	.00194	-.00033	-.00256	-.00147	.00102

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CFTC	CFSR8	CFSR5N	CFET
2.000	-10.029	-.07403	-.70121	.41689	.27614	-.15118	-.15752	-.15658	-.23770	-.20157	-.19210
2.000	-7.935	-.06986	-.54436	.40864	.21292	-.15057	-.15881	-.15944	-.22598	-.19239	-.18386
2.000	-5.842	-.06954	-.40035	.40223	.15624	-.15188	-.16171	-.15980	-.22095	-.17890	-.18295
2.000	-4.061	-.06743	-.29346	.39818	.11724	-.14935	-.15953	-.15654	-.21651	-.17437	-.18105
2.000	-1.670	-.06633	-.16428	.39461	.07375	-.14936	-.15537	-.15570	-.22317	-.17375	-.17408
2.000	-.619	-.06567	-.10925	.39210	.05497	-.14938	-.15444	-.15540	-.22445	-.17249	-.16934
2.000	.426	-.06540	-.05105	.39049	.03535	-.14970	-.15380	-.15414	-.22699	-.17313	-.16775
2.000	1.469	-.06494	.00273	.38980	.01579	-.15123	-.15471	-.15441	-.22791	-.17720	-.16549
2.000	2.518	-.06517	.06282	.38807	-.00681	-.15080	-.15247	-.15313	-.22790	-.17814	-.16357
2.000	4.601	-.06364	.17544	.38717	-.05505	-.15093	-.15060	-.15284	-.22380	-.18070	-.16772
2.000	6.692	-.06200	.29997	.38702	-.10608	-.15443	-.15315	-.15539	-.22096	-.17660	-.16299
2.000	8.799	-.06102	.42605	.38538	-.15077	-.15156	-.14932	-.15158	-.21999	-.17373	-.15948
2.000	10.986	-.05931	.54883	.38225	-.19718	-.14489	-.14294	-.14491	-.22441	-.17561	-.16040
GRADIENT		.00040	.05412	-.00132	-.01969	-.00025	.00083	.00047	-.00096	-.00084	.00176

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(X8003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 975.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RLOSER = .000
 SPDRK = .000 SCFLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
2.500	-10.908	.00609	-.67013	.37781	.26414	-.13588	-.13802	-.13350	-.18435	-.16257	.17539
2.500	-8.832	.00504	-.54479	.36726	.21320	-.13064	-.13390	-.12975	-.18285	-.16404	.14792
2.500	-6.741	.00306	-.41806	.35925	.16150	-.12919	-.13319	-.12792	-.17843	-.15475	.11576
2.500	-4.630	.00194	-.30265	.35478	.11875	-.13325	-.13651	-.13161	-.17989	-.15285	.08839
2.500	-2.544	.00230	-.20073	.35209	.08682	-.13733	-.13948	-.13458	-.18026	-.15433	.08650
2.500	-1.510	.00094	-.15321	.35085	.07467	-.13748	-.13952	-.13510	-.17995	-.15408	.08935
2.500	-.478	-.00084	-.10137	.34978	.06088	-.13754	-.13958	-.13517	-.17778	-.15227	.08653
2.500	.552	-.00320	-.05973	.34816	.05077	-.13930	-.14071	-.13730	-.17735	-.15331	.06909
2.500	1.559	-.00246	-.01698	.34501	.03760	-.13996	-.14063	-.13759	-.17557	-.15559	.05847
2.500	3.657	-.00317	.07668	.33962	.00472	-.14218	-.14173	-.14019	-.17767	-.15434	.04958
2.500	5.705	-.00411	.18394	.33695	-.03727	-.13950	-.13802	-.13722	-.17768	-.14999	.05324
2.500	7.809	-.00659	.30165	.33599	-.08457	-.14525	-.14332	-.14364	-.17699	-.14773	.04898
2.500	9.895	-.00723	.41909	.33132	-.12992	-.14373	-.14057	-.14099	-.17660	-.14805	.05311
	GRADIENT	-.00078	.04557	-.00178	-.01333	-.00099	-.00056	-.00099	.00043	-.00022	-.00625

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
2.860	-10.620	.00384	-.62672	.35830	.24512	-.11084	-.11163	-.10746	-.14314	-.12711	.20171
2.860	-8.558	.00296	-.51630	.35010	.20446	-.10959	-.11038	-.10621	-.14313	-.12791	.17686
2.860	-6.452	.00180	-.40522	.34075	.16579	-.11041	-.11161	-.10785	-.14313	-.12751	.15259
2.860	-4.409	.00134	-.29510	.33090	.13037	-.11293	-.11495	-.10956	-.14479	-.12796	.11269
2.860	-2.315	-.00084	-.19587	.32324	.09598	-.11497	-.11577	-.11284	-.14317	-.12387	.09713
2.860	-1.263	-.00120	-.14914	.32046	.08171	-.11616	-.11738	-.11485	-.14356	-.12466	.09893
2.860	-.263	-.00199	-.10814	.31828	.07044	-.11662	-.11783	-.11530	-.14439	-.12511	.09013
2.860	.790	-.00234	-.06487	.31509	.05697	-.11651	-.11782	-.11488	-.14398	-.12674	.07178
2.860	1.797	-.00465	-.01593	.31349	.03952	-.11496	-.11576	-.11283	-.14032	-.12550	.06610
2.860	3.896	-.00601	.07334	.30862	.00652	-.11781	-.11862	-.11486	-.13909	-.12385	.05959
2.860	5.929	-.00703	.16711	.30411	-.02963	-.11703	-.11701	-.11408	-.13749	-.11979	.07090
2.860	8.017	-.00905	.28053	.30135	-.07467	-.11694	-.11559	-.11398	-.13336	-.11397	.06956
2.860	10.081	-.00942	.38751	.29705	-.11537	-.11823	-.11617	-.11528	-.13543	-.11590	.06120
	GRADIENT	-.00088	.04446	-.00262	-.01453	-.00046	-.00033	-.00049	.00055	.00026	-.00693

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(X48003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRBK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CFYC	CFSR8	CFSR5N	CFET
3.900	-10.516	-.01503	-.50020	.30912	.19123	-.05158	-.05840	-.05668	-.07967	-.05989	.27578
3.900	-8.471	-.01640	-.42225	.29963	.16690	-.05159	-.05787	-.05723	-.08029	-.06044	.21528
3.900	-6.430	-.01643	-.35345	.28636	.14938	-.05374	-.06057	-.06047	-.08297	-.06314	.18399
3.900	-4.389	-.01776	-.26998	.27563	.12102	-.06428	-.06111	-.06047	-.08297	-.06422	.16943
3.900	-2.356	-.01977	-.18965	.26827	.09647	-.06267	-.05949	-.05939	-.08082	-.06363	.12362
3.900	-1.329	-.01958	-.15359	.26471	.08523	-.05536	-.06165	-.05155	-.08189	-.06584	.10582
3.900	-.304	-.01992	-.11423	.26154	.07317	-.05590	-.06220	-.06263	-.08136	-.06638	.10594
3.900	.724	-.02081	-.07485	.25875	.06148	-.05429	-.06111	-.06155	-.07922	-.06476	.10475
3.900	1.725	-.02056	-.04187	.25601	.05209	-.05644	-.06327	-.06263	-.07922	-.06530	.10312
3.900	3.772	-.02114	.03487	.25133	.02594	-.05752	-.06435	-.06425	-.07869	-.06530	.09933
3.900	5.811	-.02234	.11302	.24652	-.05077	-.06805	-.06489	-.06478	-.07707	-.06369	.13873
3.900	7.861	-.02412	.20671	.24226	-.03691	-.06599	-.06382	-.06318	-.07494	-.06099	.11169
3.900	9.905	-.02363	.28837	.23739	-.06492	-.06751	-.06435	-.06316	-.07546	-.06280	.05355
	GRADIENT	-.00039	.03719	-.00298	-.01151	-.00045	-.00047	-.00050	.00054	-.00015	-.00753

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CFYC	CFSR8	CFSR5N	CFET
4.600	-9.891	-.01610	-.47459	.29770	.19022	-.04121	-.03716	-.03702	-.05826	-.03907	.24025
4.600	-7.856	-.01659	-.39861	.29415	.15877	-.03993	-.03370	-.03426	-.05757	-.03630	.19379
4.600	-5.827	-.01874	-.31857	.27236	.13527	-.03710	-.03099	-.03223	-.05484	-.03358	.20729
4.600	-3.794	-.01903	-.24854	.25957	.11390	-.03915	-.03233	-.03358	-.05689	-.03552	.17917
4.600	-1.763	-.01995	-.17626	.24895	.09226	-.03993	-.03370	-.03495	-.05757	-.03700	.12527
4.600	-.745	-.01989	-.14228	.24364	.08213	-.04259	-.03547	-.03702	-.05757	-.03976	.12118
4.600	.261	-.02128	-.09798	.24135	.06796	-.03916	-.03372	-.03428	-.05483	-.03702	.13139
4.600	1.276	-.02057	-.05992	.23595	.06162	-.04259	-.03546	-.03701	-.05688	-.03975	.12679
4.600	2.305	-.02154	-.02554	.23421	.04658	-.04122	-.03578	-.03565	-.05482	-.03838	.13496
4.600	4.330	-.02186	.04228	.22801	.02525	-.04054	-.03511	-.03497	-.05345	-.03563	.15489
4.600	6.352	-.02232	.11625	.22156	-.00004	-.04260	-.03648	-.03703	-.05482	-.03700	.10936
4.600	8.381	-.02310	.19409	.21544	-.02963	-.04398	-.03785	-.03771	-.05413	-.03837	.06926
4.600	10.418	-.02323	.27775	.21007	-.06033	-.04192	-.03649	-.03635	-.05207	-.03701	.04358
	GRADIENT	-.00036	.03603	-.00383	-.01093	-.00020	-.00036	-.00016	.00047	-.00007	-.00169

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57

(XH8004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RLODER = .000
 SPCBRK = .000 SPCFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
1.600	-10.486	-.14741	-.05001	.45271	.01040	-.28117	-.29533	-.26345	-.39344	-.33616	-.27534
1.600	-8.373	-.14330	-.04667	.45303	.01338	-.27265	-.27957	-.27370	-.39183	-.32859	-.28216
1.600	-6.315	-.14208	-.04959	.45016	.01539	-.26392	-.26547	-.26311	-.38433	-.31232	-.27655
1.600	-4.237	-.13478	-.04778	.44725	.01846	-.24516	-.25104	-.24655	-.37901	-.30356	-.27655
1.600	-2.106	-.13648	-.05250	.44413	.02332	-.23948	-.24188	-.24087	-.35706	-.29880	-.27054
1.600	-.066	-.13708	-.05134	.44161	.02242	-.23544	-.23815	-.23622	-.33297	-.27410	-.25555
1.600	2.034	-.13296	-.05035	.44060	.02007	-.23925	-.24385	-.23596	-.31267	-.25725	-.25182
1.600	4.113	-.12576	-.04670	.44494	.01718	-.25449	-.25601	-.24400	-.29920	-.24214	-.26177
1.600	6.212	-.13897	-.05109	.44835	.01848	-.26765	-.27078	-.26464	-.28351	-.22370	-.27433
1.600	8.320	-.14239	-.05005	.44939	.02153	-.28237	-.28869	-.27903	-.27884	-.21527	-.28877
1.600	10.479	-.15795	-.06636	.45111	.02294	-.29081	-.29748	-.28934	-.27539	-.21277	-.29316
	GRADIENT	.00103	.00020	-.00039	-.00028	-.00088	-.00057	.00048	.00988	.00741	.00232

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.000	-00.455	.42350	-.03905	.39878	.01954	-.18548	-.20209	-.19177	-.24474	-.21212	-.17444
2.000	-8.352	.41939	-.04158	.39974	.02263	-.17979	-.19670	-.18542	-.24222	-.20706	-.17636
2.000	-6.283	.42294	-.04322	.39870	.02624	-.17253	-.18978	-.17979	-.23874	-.20105	-.17415
2.000	-4.229	.42595	-.04666	.39707	.03000	-.16491	-.17733	-.17218	-.24252	-.19554	-.17286
2.000	-2.105	.42198	-.05460	.39210	.03554	-.16110	-.16779	-.16427	-.23523	-.17821	-.16491
2.000	-.069	.41601	-.06076	.39852	.03769	-.14958	-.15413	-.15321	-.22509	-.17124	-.16618
2.000	2.028	.41916	-.05747	.39120	.03533	-.15541	-.16017	-.15858	-.21211	-.16332	-.16396
2.000	4.105	.41931	-.05267	.39480	.03007	-.16780	-.17070	-.17095	-.20107	-.15261	-.16402
2.000	6.198	.41394	-.05710	.39426	.02978	-.17757	-.18113	-.18198	-.18858	-.14339	-.17159
2.000	8.299	.41024	-.06185	.39532	.03142	-.18951	-.19449	-.19559	-.17762	-.13011	-.17574
	GRADIENT	-.00076	-.00072	-.00026	-.00006	-.00001	.00100	.00039	.00510	.00496	.00090

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/57

(848004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-R3 = .000 RUDDER = .000
 SDBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CFOR8	CFOR5	CFTC	CFSR8	CFSR5N	CFET
2.860	-10.308	-.24463	-.10725	.33173	.06048	-.13007	-.12557	-.12591	-.14518	-.13408	.07765
2.860	-8.260	-.24542	-.10383	.32720	.06185	-.12722	-.12312	-.12305	-.14641	-.13491	.09559
2.860	-6.213	-.24650	-.10109	.32454	.06208	-.12191	-.12355	-.12020	-.14642	-.13369	.12703
2.860	-4.093	-.25205	-.10302	.32023	.06540	-.12068	-.12353	-.11814	-.14560	-.13204	.11400
2.860	-2.039	-.25595	-.10444	.31809	.06562	-.12151	-.12437	-.11775	-.14683	-.13206	.10449
2.860	-.020	-.25156	-.10213	.31636	.06676	-.11621	-.11783	-.11449	-.14399	-.12429	.09176
2.860	1.999	-.25557	-.10411	.31555	.06674	-.12028	-.12058	-.11857	-.14113	-.11937	.08527
2.860	4.099	-.24314	-.09767	.31717	.06159	-.11821	-.11697	-.11813	-.13664	-.10992	.08706
2.860	6.196	-.24263	-.09594	.31917	.05963	-.12225	-.12019	-.12176	-.12928	-.09938	.09689
2.860	8.219	-.23440	-.09027	.32128	.05754	-.12433	-.12228	-.12303	-.12443	-.09516	.07196
2.860	10.447	-.23563	-.09111	.32460	.05786	-.12925	-.12894	-.12713	-.12443	-.09517	.08972
	GRADIENT	.00090	.00054	-.00042	-.00037	.00030	.00082	-.00004	.00116	.00279	-.00357

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CFOR8	CFOR5	CFTC	CFSR8	CFSR5N	CFET
3.900	-4.096	-.31382	-.11632	.26417	.07255	-.06598	-.06435	-.06371	-.07761	-.06530	.13386
3.900	-2.043	-.31220	-.11206	.26286	.07148	-.06643	-.06326	-.06208	-.07653	-.06421	.12636
3.900	-.022	-.31382	-.11596	.26181	.07494	-.06535	-.06326	-.06208	-.07814	-.06475	.10428
3.900	1.983	-.31659	-.11513	.26051	.07393	-.06698	-.06435	-.06371	-.07922	-.06368	.10853
3.900	4.065	-.30722	-.10337	.26363	.06939	-.06491	-.06272	-.06100	-.07600	-.05935	.09295
3.900	6.125	-.31041	-.10933	.26543	.06994	-.06959	-.06543	-.06478	-.07707	-.05774	.11985
3.900	8.166	-.30466	-.10047	.27032	.06620	-.06482	-.06274	-.06209	-.07225	-.05236	.11551
	GRADIENT	.00044	.00113	-.00015	-.00030	.00019	.00011	.00019	.00003	.00061	-.00490

RUN NO. 0/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CFOR8	CFOR5	CFTC	CFSR8	CFSR5N	CFET
4.600	-4.058	.26399	-.09596	.24338	.06460	-.04329	-.03717	-.03703	-.05276	-.03700	.15572
4.600	-2.015	.26323	-.09207	.24095	.06235	-.04290	-.03649	-.03565	-.05207	-.03700	.13289
4.600	-.003	.26005	-.09809	.23987	.06739	-.04122	-.03579	-.03566	-.05276	-.03701	.13351
4.600	1.992	.25791	-.09679	.23993	.06599	-.04328	-.03854	-.03701	-.05491	-.03906	.13093
4.600	4.045	.25062	-.09089	.24313	.06403	-.04327	-.03783	-.03700	-.05481	-.03766	.10052
4.600	5.095	.25124	-.08938	.24691	.06333	-.04328	-.03854	-.03771	-.05482	-.03699	.12741
4.600	9.109	.25279	-.09584	.24964	.06061	-.04329	-.03923	-.03770	-.05344	-.03490	.09523
	GRADIENT	-.00007	.00027	-.00007	.00012	-.00003	-.00017	-.00006	-.00034	-.00017	-.00557

UPWT 1099/1119 (IA-44) CONFIGURATION 02/14/57

(X48003) (05 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 DREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDRRC = .000 BDFLAP = .000

RUN NO. 0/0 R/WL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPRB	CPRM	CPTC	CPSRB	CPSRBN	CFET
1.600	-10.665	4.12937	-.80556	.46114	.31553	-.23257	-.25158	-.23647	-.31509	-.26059	-.29695
1.600	-8.566	4.12417	-.63328	.46289	.24300	-.23510	-.25952	-.24056	-.32982	-.27815	-.29311
1.600	-6.458	4.11963	-.47293	.45709	.18103	-.23269	-.25671	-.23596	-.33270	-.27979	-.29284
1.600	-4.674	4.11741	-.35159	.45174	.13348	-.23072	-.25318	-.23182	-.32168	-.26907	-.27597
1.600	-2.249	4.11254	-.18390	.44909	.06979	-.25102	-.25445	-.24365	-.30006	-.25088	-.26331
1.600	-1.183	4.11178	-.11748	.44758	.04355	-.25290	-.25069	-.24397	-.29974	-.24368	-.26268
1.600	-.131	4.11361	-.04676	.44553	.01712	-.25358	-.25446	-.24309	-.29822	-.24249	-.26085
1.600	.914	4.10977	.01628	.44405	-.00721	-.24951	-.24913	-.24621	-.29954	-.24561	-.25834
1.600	1.972	4.11152	.08482	.44486	-.03371	-.24859	-.24950	-.24590	-.30135	-.24718	-.25866
1.600	4.069	4.11195	.20483	.44155	-.08062	-.25039	-.25012	-.24689	-.30484	-.24097	-.25182
1.600	6.149	4.10897	.32152	.43648	-.12663	-.22384	-.22431	-.22557	-.31072	-.25216	-.26020
1.600	8.258	4.11030	.44257	.43234	-.17042	-.22632	-.22649	-.22898	-.31133	-.25495	-.24889
1.600	10.448	4.11264	.56997	.42990	-.20935	-.22916	-.22902	-.23182	-.31323	-.25842	-.24891
	GRADIENT	-.00058	.06372	-.00116	-.02446	-.00150	.00118	-.00150	.00153	.00265	.00244

RUN NO. 0/0 R/WL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPRB	CPRM	CPTC	CPSRB	CPSRBN	CFET
2.000	-10.000	4.11997	-.71009	.41728	.28326	-.15012	-.16121	-.15361	-.21787	-.17639	-.19511
2.000	-7.955	4.11712	-.56259	.41060	.22004	-.15295	-.16627	-.15613	-.21121	-.17226	-.18527
2.000	-5.856	4.11149	-.41779	.40462	.16343	-.15193	-.16429	-.15479	-.19975	-.16300	-.18204
2.000	-4.085	4.10997	-.30469	.39996	.12239	-.15189	-.16109	-.15539	-.19561	-.15315	-.17821
2.000	-1.677	4.10605	-.17074	.39671	.07270	-.15507	-.16454	-.15924	-.19186	-.14915	-.17509
2.000	-.624	4.10702	-.11048	.39645	.05109	-.16109	-.16009	-.16109	-.19594	-.14778	-.16997
2.000	.419	4.10531	-.05362	.39490	.03065	-.16713	-.17055	-.16997	-.20008	-.15256	-.16334
2.000	1.462	4.10600	.00335	.39350	.01013	-.17063	-.17323	-.17569	-.20232	-.15386	-.16147
2.000	2.507	4.10378	.06119	.39204	-.01171	-.17374	-.17603	-.17911	-.20354	-.15222	-.15919
2.000	4.601	4.10345	.17931	.38997	-.05027	-.17790	-.18020	-.18420	-.20294	-.14555	-.16019
2.000	6.691	4.10247	.29508	.38809	-.10701	-.17094	-.17299	-.17567	-.20453	-.14878	-.15384
2.000	8.792	4.10164	.41829	.38239	-.15095	-.15952	-.16207	-.16269	-.20070	-.14875	-.15159
2.000	10.975	4.10410	.54699	.37595	-.19243	-.15101	-.15353	-.15387	-.20325	-.15606	-.15416
	GRADIENT	-.00070	.05599	-.00116	-.02500	-.00329	-.00230	-.00373	-.00129	.00028	.00249

UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/57

(XH8005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LD = .000
ELV-LI = .000 ELV-RI = .000
ELV-RD = .000 RUDDER = .000
SFDRK = .000 DEFLAP = .000

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFCRB, CFCMS, CFTC, CFSRB, CFSRBN, CFET. Rows 2.860 to 2.860 GRADIENT.

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFCRB, CFCMS, CFTC, CFSRB, CFSRBN, CFET. Rows 3.900 to 3.900 GRADIENT.

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UNIT 1089/1119 (1A-44) CONFIGURATION 02/T/4/57

(X48005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ-FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 QUODER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 Q4/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CORB	CORAS	CPTC	CPSRB	CPSRBN	CPET
4.600	-9.892	4.05693	-.46320	.30299	.17570	-.03914	-.03440	-.03357	-.05620	-.03353	.24439
4.600	-7.849	4.05450	-.38762	.29043	.15545	-.03844	-.03300	-.03217	-.05482	-.03352	.20633
4.600	-5.822	4.05196	-.31217	.27575	.13251	-.03778	-.03372	-.03290	-.05483	-.03286	.16601
4.600	-3.795	4.05030	-.24475	.26268	.11165	-.04119	-.03714	-.03631	-.05755	-.03627	.16494
4.600	-1.753	4.04782	-.16655	.25142	.08753	-.04052	-.03577	-.03564	-.05619	-.03491	.12810
4.600	-.748	4.04613	-.12890	.24713	.07528	-.04258	-.03714	-.03700	-.05697	-.03765	.11991
4.600	.278	4.04385	-.08461	.24419	.06195	-.04054	-.03511	-.03497	-.05345	-.03494	.10025
4.600	1.328	4.04325	-.05101	.23928	.05223	-.04328	-.03715	-.03770	-.05688	-.03767	.05861
4.600	2.307	4.04175	-.01334	.23505	.03991	-.04192	-.03649	-.03635	-.05345	-.03701	.05672
4.600	4.329	4.03995	.05598	.22855	.01692	-.04261	-.03718	-.03773	-.05345	-.03701	.04773
4.600	6.359	4.03807	.12746	.22239	-.00667	-.04192	-.03580	-.03636	-.05139	-.03632	.03870
4.600	8.400	4.03597	.20892	.21733	-.03532	-.04123	-.03590	-.03636	-.05139	-.03632	.03524
4.600	10.426	4.03483	.28459	.21121	-.06324	-.04191	-.03648	-.03772	-.05207	-.03630	.02908
	GRADIENT	-.00128	.03718	-.00410	-.01165	-.00022	-.00054	-.00018	.00051	-.00017	-.01533

UFWT 1088/1119 (IA-44) CONFIGURATION 02/74/57

(X46006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RLODER = .000
 SPDRK = .000 BDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPRB	CPRM	CPTC	CPSRB	CPSRBN	CPET
1.600	-10.661	-4.24072	-.81264	.46892	.32131	-.25505	-.27170	-.26243	-.37992	-.32324	-.30251
1.600	-8.585	-4.22847	-.63840	.46897	.24891	-.25329	-.26767	-.25998	-.37056	-.31984	-.30381
1.600	-6.455	-4.22306	-.47253	.46384	.18289	-.24923	-.25325	-.25839	-.35990	-.30535	-.29439
1.600	-4.651	-4.22158	-.34397	.45872	.13272	-.24989	-.25990	-.25714	-.35520	-.30009	-.28781
1.600	-2.239	-4.21506	-.18429	.45335	.07039	-.24383	-.25315	-.25022	-.36707	-.30412	-.28337
1.600	-1.168	-4.21474	-.11338	.45115	.04305	-.24195	-.25096	-.24741	-.37489	-.30537	-.28212
1.600	-.133	-4.21340	-.04736	.44965	.01925	-.24263	-.25007	-.24590	-.37712	-.30667	-.27715
1.600	.924	-4.21251	.01839	.44879	-.00539	-.24448	-.24973	-.24337	-.37742	-.30758	-.27148
1.600	1.974	-4.21151	.08910	.45002	-.03311	-.24326	-.24755	-.24184	-.37806	-.30667	-.26937
1.600	4.068	-4.20947	.20773	.44485	-.07993	-.24104	-.24408	-.24337	-.37710	-.30758	-.26396
1.600	6.163	-4.21193	.32292	.44171	-.12484	-.24229	-.24251	-.24119	-.37428	-.31197	-.26271
1.600	8.264	-4.21145	.44243	.43897	-.16766	-.24761	-.24879	-.24619	-.38023	-.30946	-.25142
1.600	10.451	-4.21716	.57691	.43670	-.20931	-.24955	-.25036	-.24591	-.38117	-.30602	-.25487
	GRADIENT	.00132	.06352	-.00142	-.02435	.00067	.00167	.00169	-.00251	-.00093	.00296

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPRB	CPRM	CPTC	CPSRB	CPSRBN	CPET
2.000	-10.027	-4.21883	-.70248	.42162	.28269	-.16077	-.16550	-.16615	-.24251	-.21304	-.20803
2.000	-7.943	-4.21128	-.55176	.41505	.22070	-.16014	-.17063	-.16836	-.23966	-.20924	-.20296
2.000	-5.845	-4.20521	-.41224	.40821	.16559	-.16009	-.17440	-.17116	-.23519	-.20255	-.19558
2.000	-4.056	-4.19860	-.29946	.40322	.12252	-.16201	-.17727	-.17465	-.23045	-.19053	-.19183
2.000	-1.671	-4.19332	-.16072	.39947	.07221	-.16390	-.17664	-.17276	-.23996	-.19401	-.18073
2.000	-.621	-4.19366	-.10169	.39977	.05091	-.16428	-.17637	-.17250	-.24347	-.19596	-.17729
2.000	.426	-4.19120	-.04561	.39727	.03092	-.16485	-.17695	-.17276	-.24376	-.19623	-.17312
2.000	1.472	-4.19096	.01117	.39544	.00932	-.16741	-.17889	-.17468	-.24441	-.19847	-.16966
2.000	2.519	-4.18788	.07246	.39275	-.01405	-.16545	-.17538	-.17404	-.23743	-.19587	-.16552
2.000	4.605	-4.18613	.18335	.39015	-.05971	-.16993	-.17443	-.17562	-.23648	-.19978	-.16171
2.000	6.704	-4.18567	.30885	.38915	-.11006	-.16520	-.16396	-.16773	-.23522	-.19182	-.15570
2.000	8.801	-4.18295	.42916	.38403	-.15243	-.16592	-.16427	-.16772	-.22993	-.18135	-.15029
2.000	10.991	-4.18421	.55967	.38252	-.19465	-.16549	-.16584	-.16544	-.22823	-.17912	-.15050
	GRADIENT	.00142	.05567	-.00151	-.02090	-.00088	.00025	-.00018	-.00049	-.00092	.00353

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UFWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(XN8006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFORL	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.617	-4.13364	-.53736	.35364	.24945	-.11741	-.11289	-.11487	-.14560	-.12468	.25100
2.860	-8.545	-4.13473	-.53194	.34752	.21031	-.11905	-.11494	-.11651	-.14967	-.12878	.21855
2.860	-6.467	-4.13478	-.41724	.33931	.16995	-.11827	-.11652	-.11696	-.15131	-.12962	.22087
2.860	-4.395	-4.13296	-.30308	.33083	.12916	-.11999	-.11864	-.11857	-.15130	-.13042	.18422
2.860	-2.317	-4.12825	-.19805	.32274	.09449	-.12112	-.12152	-.11940	-.15090	-.13207	.15756
2.860	-1.286	-4.12880	-.15469	.31952	.09130	-.12150	-.12313	-.11897	-.15007	-.13246	.15525
2.860	-.251	-4.12831	-.10871	.31631	.06719	-.12071	-.12307	-.11899	-.14765	-.13166	.13427
2.860	.777	-4.12874	-.06541	.31315	.05355	-.12149	-.12558	-.11937	-.14682	-.13122	.13404
2.860	1.911	-4.12711	-.02574	.30911	.04036	-.12307	-.12675	-.12094	-.14597	-.13159	.13278
2.860	3.871	-4.12756	.06743	.30595	.00515	-.12308	-.12635	-.12054	-.14394	-.12995	.10446
2.860	5.930	-4.12678	.16778	.30447	-.03452	-.12391	-.12677	-.12178	-.14150	-.12709	.07287
2.860	7.997	-4.12801	.27163	.30196	-.07519	-.12309	-.12390	-.11973	-.14069	-.12463	.04299
2.860	10.083	-4.13013	.39124	.29813	-.12207	-.12100	-.12257	-.11809	-.14069	-.12453	.03483
	GRADIENT	.00060	.04420	-.00307	-.01464	-.00039	-.00101	-.00026	.00099	.00009	-.00899

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFORL	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.525	-4.10132	-.51949	.31272	.20033	-.06105	-.05625	-.05561	-.08189	-.06098	.27080
3.900	-8.475	-4.10193	-.43971	.30382	.17616	-.06268	-.05627	-.05932	-.08350	-.06153	.22918
3.900	-6.441	-4.10139	-.35679	.29256	.15066	-.06105	-.05518	-.05723	-.08136	-.06098	.17535
3.900	-4.394	-4.09964	-.27948	.28048	.12507	-.06428	-.06003	-.06155	-.09457	-.06530	.20180
3.900	-2.344	-4.09915	-.19090	.27224	.09522	-.06374	-.05995	-.05993	-.09243	-.06314	.15650
3.900	-1.331	-4.09730	-.15924	.26697	.08604	-.06590	-.06165	-.06262	-.09243	-.06530	.14250
3.900	-.307	-4.09556	-.11790	.26451	.07367	-.06643	-.06219	-.06262	-.08135	-.06529	.13285
3.900	.713	-4.09546	-.07670	.26175	.06070	-.06642	-.06271	-.06207	-.07813	-.06474	.11673
3.900	1.728	-4.09427	-.03980	.25900	.04783	-.06751	-.06381	-.06317	-.07814	-.06594	.11878
3.900	3.779	-4.09362	.03848	.25236	.02013	-.06751	-.06435	-.06424	-.07707	-.06659	.14521
3.900	5.818	-4.09377	.12311	.24940	-.01117	-.06752	-.06381	-.06371	-.07386	-.06206	.07402
3.900	7.861	-4.09340	.20795	.24413	-.04209	-.06643	-.06326	-.06316	-.07171	-.05999	.04873
3.900	9.909	-4.09340	.29596	.24188	-.07291	-.06697	-.06380	-.06316	-.07279	-.06151	.03957
	GRADIENT	.00083	.03868	-.00336	-.01259	-.00049	-.00065	-.00039	.00100	.00004	-.00764

UFWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(XH8006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 Sq.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN,NO. 0/0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFRB	CFMS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.889	-4.06304	-.47025	.30239	.17509	-.04053	-.03510	-.03496	-.05551	-.03493	.28295
4.600	-7.857	-4.06205	-.40230	.29026	.16008	-.03914	-.03301	-.03287	-.05688	-.03492	.21178
4.600	-5.819	-4.06063	-.33278	.27639	.14019	-.04051	-.03439	-.03493	-.05894	-.03767	.18079
4.600	-3.796	-4.06096	-.24571	.26408	.11068	-.03845	-.03232	-.03357	-.05620	-.03561	.19102
4.600	-1.761	-4.05999	-.16694	.25209	.08494	-.03993	-.03370	-.03426	-.05688	-.03700	.14183
4.600	-.729	-4.05943	-.12839	.24814	.07371	-.03993	-.03301	-.03426	-.05551	-.03700	.15019
4.600	.276	-4.05776	-.10013	.24226	.06594	-.04258	-.03575	-.03700	-.05756	-.03835	.15039
4.600	1.293	-4.05720	-.06143	.23970	.05446	-.04327	-.03645	-.03700	-.05697	-.03835	.12753
4.600	2.303	-4.05710	-.01675	.23712	.03926	-.04122	-.03509	-.03634	-.05413	-.03700	.13219
4.600	4.335	-4.05581	.04970	.22921	.01697	-.04329	-.03649	-.03772	-.05345	-.03700	.11559
4.600	6.357	-4.05476	.11797	.22333	-.00594	-.04534	-.03921	-.03907	-.05205	-.03835	.05622
4.600	8.393	-4.05400	.19904	.21763	-.03421	-.04467	-.03924	-.03979	-.05138	-.03937	.04226
4.600	10.422	-4.05371	.27829	.21597	-.06274	-.04467	-.03924	-.03941	-.05069	-.03907	.03949
	GRADIENT	.00067	.03631	-.00417	-.01139	-.00050	-.00054	-.00055	.00035	-.00016	-.00006

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UFWT 1090/1119 (IA-44) CONFIGURATION 02/12/57

(XH0007) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 Y4RF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRBK = .000 BDFLAF = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMS	CFIC	CFSRB	CFSRBN	CFET
1.600	-10.637	-.05202	-.78224	.46052	.30710	-.20948	-.21903	-.21747	-.31774	-.26602	-.25495
1.600	-8.548	-.05103	-.61904	.45911	.23956	-.21109	-.22161	-.22097	-.31294	-.25988	-.24847
1.600	-6.441	-.05071	-.46066	.45214	.17794	-.20472	-.21675	-.21551	-.30696	-.24646	-.24415
1.600	-4.667	-.04934	-.33527	.44791	.12995	-.19809	-.20729	-.21047	-.30010	-.23770	-.24041
1.600	-2.234	-.04503	-.17243	.44521	.06846	-.19465	-.20006	-.20140	-.29469	-.23673	-.23567
1.600	-1.182	-.04570	-.10922	.44372	.04508	-.19553	-.20100	-.20109	-.29609	-.23761	-.23310
1.600	-.124	-.04681	-.03400	.44444	.01747	-.19810	-.20100	-.20140	-.29765	-.23854	-.23091
1.600	.927	-.04541	.02453	.44428	-.00441	-.19944	-.20078	-.20149	-.30085	-.24019	-.23507
1.600	1.974	-.04546	.08408	.44232	-.02707	-.20091	-.19975	-.20077	-.30109	-.24011	-.23905
1.600	4.067	-.04308	.20235	.43941	-.07589	-.18998	-.18900	-.18914	-.31541	-.24315	-.22269
1.600	6.158	-.04062	.31791	.43591	-.12000	-.17829	-.17768	-.18037	-.32258	-.25470	-.22328
1.600	8.269	-.04149	.43954	.43363	-.16372	-.17756	-.17821	-.18308	-.32033	-.24930	-.21975
1.600	10.453	-.03800	.56950	.43060	-.20500	-.17978	-.18037	-.18336	-.32000	-.24895	-.21377
	GRADIENT	.00049	.06159	-.00095	-.02342	.00038	.00163	.00190	-.00168	-.00067	.00137

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMS	CFIC	CFSRB	CFSRBN	CFET
2.000	-10.030	-.05518	-.71063	.41637	.28093	-.14906	-.15476	-.15348	-.23744	-.20132	-.19186
2.000	-7.952	-.05521	-.55937	.40987	.21848	-.14808	-.15569	-.15693	-.22686	-.19332	-.18386
2.000	-5.847	-.05173	-.41312	.40231	.15991	-.14000	-.15842	-.15307	-.22013	-.17897	-.18281
2.000	-4.066	-.04987	-.30149	.39912	.11839	-.14743	-.15632	-.15503	-.21524	-.17436	-.18010
2.000	-1.670	-.04955	-.16321	.39467	.06973	-.14753	-.15325	-.15387	-.22239	-.17417	-.17293
2.000	-.629	-.04974	-.10759	.39174	.05078	-.14659	-.15136	-.15294	-.22462	-.17323	-.16754
2.000	.422	-.04953	-.04574	.39025	.02956	-.14754	-.15167	-.15167	-.22684	-.17323	-.16532
2.000	1.466	-.04731	.00654	.38867	.01056	-.15014	-.15301	-.15300	-.22815	-.17709	-.16411
2.000	2.510	-.04812	.05829	.38554	-.00919	-.14979	-.15170	-.15233	-.22845	-.17865	-.16154
2.000	4.596	-.04595	.17265	.38585	-.03703	-.15081	-.14986	-.15208	-.22468	-.18188	-.16572
2.000	6.692	-.04450	.30179	.38695	-.11095	-.15426	-.15332	-.15490	-.22149	-.17773	-.16198
2.000	8.793	-.04246	.42416	.38410	-.15523	-.15364	-.15080	-.15301	-.22055	-.17552	-.15941
2.000	10.988	-.04127	.55370	.38069	-.19458	-.14824	-.14474	-.14762	-.22434	-.17773	-.15581
	GRADIENT	.00044	.05444	-.00152	-.01994	-.00047	.00061	.00033	-.00121	-.00094	.00188

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S6

(XH0008) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
ELV-LI = .000 ELV-RI = .000
ELV-RD = .000 RLODER = .000
SPORRY = .000 SDFLAP = .000

RUN NO. 0/ 0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFSRB, CFSMS, CFTC, CFSRB, CFSRBN, CFET. Contains 17 rows of data for MACH values from 1.600 to 10.432, plus a GRADIENT row.

RUN NO. 0/ 0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

Table with 12 columns: MACH, ALPHA, BETA, CN, CA, CLM, CFSRB, CFSMS, CFTC, CFSRB, CFSRBN, CFET. Contains 17 rows of data for MACH values from 2.000 to 10.978, plus a GRADIENT row.

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UPWT 1080/1119 (IA-44) CONFIGURATION 02/T4/S3

(X480009) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
1.600	-10.650	-.05463	-.78656	.46275	.30967	-.20421	-.21377	-.21155	-.32855	-.27943	-.25149
1.600	-8.551	-.05178	-.61102	.46008	.23725	-.20487	-.21537	-.21283	-.31981	-.27257	-.24682
1.600	-6.434	-.04916	-.45576	.45469	.17710	-.19946	-.21089	-.20869	-.31349	-.26279	-.24110
1.600	-4.650	-.04752	-.33589	.45011	.13205	-.19384	-.20242	-.20431	-.31130	-.25184	-.23797
1.600	-2.229	-.04699	-.17234	.44655	.06900	-.18912	-.19392	-.19392	-.30590	-.24525	-.23356
1.600	-1.177	-.04574	-.10531	.44397	.04400	-.19137	-.19430	-.19373	-.30631	-.24290	-.23142
1.600	-.123	-.04537	-.04034	.44262	.02003	-.19325	-.19524	-.19561	-.30538	-.24311	-.22986
1.600	.927	-.04397	.02444	.44244	-.00536	-.19334	-.19314	-.19414	-.30951	-.24413	-.23245
1.600	1.977	-.04348	.08406	.44100	-.02826	-.19487	-.19279	-.19380	-.31169	-.24598	-.23712
1.600	4.071	-.04184	.20759	.43751	-.07947	-.17988	-.17775	-.17913	-.32012	-.24880	-.22490
1.600	6.162	-.04272	.31990	.43414	-.12290	-.16928	-.16674	-.16942	-.32955	-.25815	-.22080
1.600	8.266	-.03942	.44223	.43281	-.16620	-.16617	-.16618	-.16949	-.32796	-.25258	-.21773
1.600	10.439	-.03842	.57433	.43214	-.20785	-.16970	-.17036	-.17146	-.32614	-.25610	-.21626
	GRADIENT	.00059	.06219	-.00139	-.02403	.00392	.00224	.00221	-.00102	.00024	.00098

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.000	-10.024	-.05519	-.70367	.41474	.27965	-.14236	-.14810	-.14585	-.23935	-.20417	-.19394
2.000	-7.955	-.05337	-.55534	.40669	.21796	-.14330	-.15063	-.15089	-.22730	-.19719	-.17599
2.000	-5.947	-.05151	-.40977	.40069	.15911	-.14296	-.15093	-.15087	-.22000	-.17562	-.17439
2.000	-4.076	-.04970	-.30408	.39767	.11966	-.14201	-.14966	-.14866	-.22665	-.17086	-.17502
2.000	-1.679	-.04873	-.16427	.39416	.06966	-.14258	-.14715	-.14711	-.22826	-.17596	-.16966
2.000	-.630	-.04849	-.10679	.39150	.04950	-.14209	-.14561	-.14684	-.23146	-.17664	-.16553
2.000	.422	-.04835	-.04329	.39059	.02628	-.14256	-.14616	-.14518	-.23459	-.18069	-.16392
2.000	1.465	-.04793	.00983	.38849	.00516	-.14550	-.14743	-.14676	-.23459	-.18513	-.16296
2.000	2.511	-.04704	.06694	.38652	-.01623	-.14743	-.14842	-.14806	-.23555	-.19118	-.16141
2.000	4.601	-.04491	.18145	.38440	-.06582	-.14616	-.14461	-.14616	-.23048	-.18801	-.15426
2.000	6.691	-.04410	.30737	.38496	-.11757	-.14779	-.14465	-.14748	-.22892	-.19351	-.15997
2.000	8.795	-.04069	.43131	.38465	-.16221	-.14779	-.14434	-.14621	-.23019	-.19456	-.15669
2.000	10.984	-.04020	.55721	.38242	-.19984	-.13951	-.13539	-.13826	-.23523	-.18864	-.15728
	GRADIENT	.00051	.05579	-.00158	-.02119	-.00055	.00036	.00019	-.00074	-.00238	.00141

UPWT 1988/1119 (IA-44) CONFIGURATION 02/14/52

(X48010) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SCORRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFIC	CFSRB	CFSRBN	CFET
1.600	-10.650	-.05339	-.78202	.46452	.30704	-.20283	-.21300	-.21048	-.33144	-.28329	-.25288
1.600	-8.558	-.04954	-.61193	.46097	.23740	-.20454	-.21534	-.21343	-.32591	-.27716	-.24676
1.600	-6.437	-.04928	-.45347	.45519	.17516	-.19824	-.21058	-.20901	-.32087	-.26618	-.24233
1.600	-4.639	-.04660	-.32983	.45043	.12775	-.19377	-.20266	-.20549	-.31487	-.25391	-.23680
1.600	-2.232	-.04570	-.16924	.44757	.06753	-.18968	-.19480	-.19485	-.31485	-.24920	-.23502
1.600	-1.188	-.04534	-.10925	.44631	.04547	-.19031	-.19417	-.19329	-.31172	-.24638	-.23126
1.600	-.126	-.04508	-.04018	.44504	.02039	-.19249	-.19480	-.19485	-.31141	-.24701	-.23095
1.600	.929	-.04338	.02671	.44499	-.00540	-.19159	-.19169	-.19208	-.31487	-.24797	-.23286
1.600	1.984	-.04210	.08829	.44307	-.02910	-.19415	-.19270	-.19401	-.31741	-.25084	-.23823
1.600	4.074	-.04201	.20535	.43907	-.07771	-.18035	-.17822	-.17992	-.32456	-.25110	-.22754
1.600	6.162	-.04059	.32481	.43533	-.12498	-.15443	-.16391	-.16713	-.33237	-.25797	-.22034
1.600	8.267	-.03709	.44086	.43369	-.16638	-.16318	-.16391	-.16807	-.32987	-.25360	-.21690
1.600	10.460	-.03807	.57627	.43306	-.20945	-.16689	-.16795	-.17084	-.33017	-.25701	-.21468
	GRADIENT	.00060	.06154	-.00123	-.02349	.00095	.00230	.00232	-.00101	.00016	.00082

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFIC	CFSRB	CFSRBN	CFET
2.000	-10.058	-.05436	-.71378	.42112	.27327	-.14386	-.15023	-.14960	-.24038	-.20557	-.18727
2.000	-7.959	-.05330	-.55480	.41480	.20855	-.14438	-.15266	-.15291	-.23304	-.20233	-.17989
2.000	-5.856	-.05192	-.40879	.40815	.15185	-.14557	-.15449	-.15473	-.22888	-.18548	-.17792
2.000	-4.061	-.04888	-.29050	.40407	.10869	-.14291	-.15055	-.15018	-.23292	-.17999	-.17750
2.000	-1.660	-.04758	-.15244	.39969	.06033	-.14281	-.14824	-.14883	-.23476	-.18276	-.17266
2.000	-.622	-.04587	-.09670	.39694	.04103	-.14264	-.14742	-.14707	-.23897	-.18637	-.16993
2.000	.424	-.04708	-.03732	.39440	.01947	-.14359	-.14711	-.14675	-.23992	-.18927	-.16739
2.000	1.471	-.04507	.02001	.39229	-.00240	-.14572	-.14830	-.14762	-.24019	-.19329	-.16605
2.000	2.515	-.04503	.07308	.38872	-.02237	-.14725	-.14857	-.14884	-.23889	-.19641	-.16505
2.000	4.608	-.04409	.19351	.38779	-.07458	-.14538	-.14350	-.14696	-.23573	-.19135	-.16697
2.000	6.709	-.04228	.31959	.38780	-.12529	-.14924	-.14642	-.14924	-.23197	-.18918	-.16227
2.000	8.907	-.04185	.44364	.38641	-.16924	-.14541	-.14359	-.14546	-.23071	-.18824	-.15916
2.000	10.993	-.03933	.57096	.38371	-.20595	-.13879	-.13626	-.13817	-.23930	-.19045	-.16005
	GRADIENT	.00066	.05551	-.00203	-.02088	-.00048	.00059	.00028	-.00047	-.00177	.00137

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/52

(X48010) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUBBER = .000
 SPDRK = .000 BDFLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.616	-.00295	-.61533	.35222	.23901	-.15015	-.14867	-.14362	-.17909	-.18000	-.16896
2.860	-8.536	-.00175	-.50260	.34308	.19902	-.15055	-.15057	-.14865	-.17834	-.17962	-.17094
2.860	-6.462	-.00046	-.39851	.33404	.15579	-.15316	-.15243	-.15051	-.17760	-.17550	-.16934
2.860	-4.384	-.00052	-.29056	.32635	.11819	-.15617	-.15619	-.15427	-.17797	-.17326	-.16785
2.860	-2.324	.00039	-.18948	.31941	.08989	-.15918	-.15959	-.15692	-.17871	-.17140	-.16499
2.860	-1.288	-.00021	-.14039	.31815	.07474	-.15916	-.16031	-.15653	-.17760	-.16990	-.16226
2.860	-.253	-.00036	-.09680	.31730	.06275	-.15977	-.15992	-.15613	-.17686	-.16952	-.15963
2.860	.769	.00049	-.05988	.31399	.05306	-.15878	-.16030	-.15726	-.17760	-.16953	-.16001
2.860	1.806	-.00010	-.01540	.31053	.03782	-.15691	-.15843	-.15688	-.17612	-.16978	-.15814
2.860	3.853	.00058	.07659	.30792	.03375	-.15879	-.15919	-.15764	-.17389	-.16579	-.15629
2.860	5.926	-.00030	.17640	.30413	-.03432	-.15617	-.15619	-.15465	-.17129	-.16168	-.15367
2.860	8.001	-.00081	.28196	.30161	-.07463	-.15729	-.15545	-.15652	-.16907	-.15832	-.14546
2.860	10.077	.00049	.39228	.29700	-.11591	-.15766	-.15395	-.15514	-.16796	-.15832	-.13874
	GRADIENT	.00009	.04284	-.00221	-.01343	-.00013	-.00022	-.00033	.00050	.00082	.00143

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.894	-.00161	-.46746	.29572	.17544	-.10861	-.10375	-.10491	-.11555	-.11861	-.10632
4.600	-7.872	-.00187	-.39620	.28349	.15516	-.11110	-.10374	-.10679	-.11678	-.12049	-.10631
4.600	-5.833	-.00172	-.32453	.27079	.13592	-.11172	-.10436	-.10803	-.11739	-.11984	-.10693
4.600	-3.808	-.00087	-.25163	.25847	.11323	-.11429	-.10629	-.10896	-.11932	-.12178	-.10949
4.600	-1.778	-.00132	-.17477	.24833	.09867	-.11365	-.10565	-.10934	-.11807	-.11990	-.10996
4.600	-.760	-.00065	-.13919	.24333	.07674	-.11488	-.10752	-.11120	-.11804	-.11987	-.11009
4.600	.257	-.00139	-.10149	.24029	.06704	-.11360	-.10687	-.10992	-.11677	-.11795	-.10891
4.600	1.269	-.00112	-.07251	.23603	.06052	-.11488	-.10978	-.11120	-.11679	-.11735	-.10946
4.600	2.289	-.00081	-.03426	.23305	.04792	-.11678	-.11005	-.11247	-.11691	-.11674	-.10947
4.600	4.311	-.00109	.03942	.22704	.02414	-.11487	-.10877	-.11119	-.11429	-.11419	-.10757
4.600	6.342	-.00093	.11657	.22018	-.00413	-.11423	-.10976	-.11117	-.11240	-.11355	-.10693
4.600	8.377	-.00103	.20047	.21514	-.03402	-.11423	-.10813	-.11055	-.11179	-.11355	-.10504
4.600	10.412	-.00054	.29420	.20922	-.05586	-.11297	-.10687	-.10929	-.11053	-.11355	-.10316
	GRADIENT	-.00001	.03534	-.00384	-.01065	-.00020	-.00047	-.00026	.00056	.00092	.00017

UPWT 1089/1119 (IA-44) CONFIGURATION 02/T4/S1

(XHB011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RAN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPCRB	CPCMS	CPTC	CPSRB	CPSRBN	CPET
1.600	-10.670	-.05319	-.79915	.45510	.32054	-.19746	-.20794	-.20482	-.33375	-.29243	-.24789
1.600	-8.577	-.05169	-.63350	.44911	.25420	-.19362	-.20785	-.20535	-.32336	-.28578	-.24373
1.600	-6.463	-.04949	-.47431	.44335	.19094	-.18572	-.20050	-.20126	-.31541	-.27505	-.23866
1.600	-4.674	-.04733	-.33501	.43840	.14427	-.18151	-.19286	-.19542	-.30797	-.26512	-.23373
1.600	-2.263	-.04497	-.19684	.43409	.09491	-.17304	-.17941	-.18322	-.31389	-.25883	-.23370
1.600	-1.208	-.04396	-.13207	.43154	.06059	-.17148	-.17528	-.17979	-.31295	-.25414	-.23088
1.600	-.151	-.04539	-.06287	.43071	.03583	-.17273	-.17653	-.17823	-.30951	-.25039	-.22932
1.600	.993	-.04436	-.00534	.42992	.01390	-.17539	-.17858	-.17871	-.31275	-.25177	-.23103
1.600	1.948	-.04272	.06252	.42992	-.01302	-.17490	-.17516	-.17625	-.31308	-.25055	-.23356
1.600	4.035	-.04072	.19259	.42637	-.06373	-.16894	-.16855	-.17008	-.31875	-.25217	-.22173
1.600	5.138	-.04029	.30095	.42473	-.10988	-.16061	-.16061	-.16425	-.32506	-.26100	-.21712
1.600	9.225	-.03845	.41766	.42262	-.15057	-.16100	-.16162	-.16557	-.32480	-.25769	-.21347
1.600	10.425	-.03784	.55082	.42093	-.19209	-.16399	-.16619	-.16606	-.32577	-.25633	-.21272
GRADIENT		.00067	.06169	-.00129	-.02369	.00097	.00224	.00259	-.00091	.00159	.00105

RUN NO. 0/ 0 RAN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPCRB	CPCMS	CPTC	CPSRB	CPSRBN	CPET
2.000	-10.071	-.05419	-.71449	.41456	.27707	-.13911	-.14757	-.14196	-.24692	-.21151	-.18468
2.000	-7.987	-.04909	-.55955	.40348	.21417	-.14034	-.15054	-.14288	-.24070	-.20672	-.17945
2.000	-5.871	-.04882	-.41289	.39771	.15761	-.14003	-.15051	-.14383	-.23249	-.18689	-.17649
2.000	-4.094	-.04593	-.30108	.39255	.11722	-.13948	-.14679	-.14549	-.22589	-.17936	-.17592
2.000	-1.687	-.04361	-.16585	.38811	.06992	-.13585	-.14029	-.14092	-.23594	-.18146	-.17359
2.000	-.645	-.04335	-.10967	.38511	.04986	-.13430	-.13843	-.13843	-.23737	-.18092	-.16890
2.000	.397	-.04402	-.05533	.38279	.03145	-.13588	-.13970	-.13905	-.23900	-.18821	-.16572
2.000	1.444	-.04295	.00212	.38071	.01007	-.13687	-.13973	-.13909	-.23739	-.19204	-.16289
2.000	2.488	-.04069	.03842	.37990	-.01195	-.13908	-.14037	-.14067	-.23675	-.19236	-.16226
2.000	4.581	-.04272	.17782	.37839	-.06256	-.13587	-.13491	-.13873	-.23134	-.18788	-.16253
2.000	6.672	-.04127	.30204	.37925	-.11191	-.14222	-.13874	-.14222	-.23388	-.18980	-.16001
2.000	8.792	-.03800	.42910	.37843	-.15526	-.13695	-.13304	-.13554	-.23706	-.19013	-.15685
2.000	10.967	-.03630	.55460	.37331	-.19213	-.12897	-.12640	-.12899	-.24025	-.18952	-.15624
GRADIENT		.00046	.05489	-.00177	-.02043	.00013	.00104	.00061	-.00056	-.00149	.00193

UPWT 1089/1119 (1A-44) CONFIGURATION 02/T4/S1

(X48011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 SDFLAP = .000

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.609	-.00710	-.61757	.34562	.23952	.00000	-.09031	-.13737	-.17847	-.17879	.20102
2.860	-8.543	-.00314	-.50655	.33714	.19865	.00000	-.10116	-.13999	-.17959	-.17991	.19799
2.860	-6.470	-.00252	-.39438	.32660	.15518	.00000	-.11235	-.13998	-.18218	-.17804	.19213
2.860	-4.387	-.00226	-.28938	.32168	.12380	.00000	-.12017	-.14706	-.18256	-.17692	.18713
2.860	-2.319	-.00092	-.18609	.31660	.09927	.00000	-.12620	-.15045	-.18181	-.17468	.18342
2.860	-1.289	-.00096	-.14577	.31557	.07841	.00000	-.13106	-.15269	-.18144	-.17393	.18155
2.860	-.252	-.00181	-.09971	.31280	.05626	.00000	-.13407	-.15494	-.18107	-.17356	.18006
2.860	.778	-.00177	-.05379	.30975	.03295	.00000	-.13667	-.15568	-.18079	-.17243	.18004
2.860	1.810	-.00109	-.01388	.30799	.03933	.00000	-.13855	-.15581	-.17995	-.17356	.17955
2.860	3.868	-.00112	.07610	.30403	.00751	.00000	-.13964	-.15567	-.17922	-.17131	.18062
2.860	5.921	-.00041	.16458	.29991	-.02578	.00000	-.13743	-.15195	-.17736	-.16683	.17852
2.860	8.004	-.00039	.27928	.29539	-.06817	.00000	-.13483	-.15271	-.17662	-.16422	.17943
2.860	10.077	.00041	.38962	.29169	-.10913	.00000	-.13109	-.15196	-.17625	-.16460	.17907
	GRADIENT	.00008	.04380	-.00216	-.01362	.00000	-.00250	-.00116	.00041	.00060	-.00081

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.529	-.00371	-.50260	.29860	.19093	.00000	-.09460	-.10781	-.13263	-.12996	.16457
3.900	-8.493	-.00340	-.42414	.28977	.16722	.00000	-.09509	-.10977	-.13263	-.12986	.14837
3.900	-6.447	-.00309	-.34707	.27750	.14469	.00000	-.09607	-.11174	-.13264	-.12896	.16021
3.900	-4.403	-.00297	-.26116	.26659	.11609	.00000	-.09656	-.11272	-.13263	-.12886	.17931
3.900	-2.360	-.00324	-.18318	.26068	.09061	.00000	-.09755	-.11371	-.13254	-.12837	.22556
3.900	-1.336	-.00301	-.14399	.25809	.07818	.00000	-.09853	-.11469	-.13166	-.12837	.24467
3.900	-.319	-.00287	-.10791	.25506	.06748	.00000	-.09951	-.11518	-.13117	-.12689	.24468
3.900	.700	-.00263	-.07310	.25197	.05777	.00000	-.10050	-.11567	-.13059	-.12640	.24356
3.900	1.727	-.00215	-.03697	.25000	.04713	.00000	-.10099	-.11617	-.12971	-.12591	.23781
3.900	3.763	-.00251	.03935	.24458	.02089	.00000	-.10198	-.11715	-.12825	-.12444	.24325
3.900	5.803	-.00239	.12159	.23987	-.00766	.00000	-.10246	-.11764	-.12726	-.12247	.24269
3.900	7.847	-.00251	.20684	.23467	-.03895	.00000	-.10246	-.11764	-.12590	-.12099	.23187
3.900	9.894	-.00189	.29494	.23162	-.07093	.00000	-.10197	-.11715	-.12590	-.12099	.22695
	GRADIENT	.00010	.03650	-.00269	-.01138	.00000	-.00071	-.00055	.00057	.00057	.00651

UPWT 1088/1119 (IA-64) CONFIGURATION 02/14/51

(XH8011) (03 JAN 75)

REFERENCE DATA

SREF = 2695.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LF = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.901	-.00277	-.48007	.29291	.18247	.00000	-.08282	-.10158	-.12257	-.11967	.30412
4.600	-7.870	-.00130	-.40243	.27966	.16127	.00000	-.08219	-.10283	-.12193	-.11966	.30150
4.600	-5.841	-.00227	-.32760	.26683	.13954	.00000	-.08345	-.10472	-.12257	-.11904	.32168
4.600	-3.813	-.00240	-.25282	.25561	.11498	.00000	-.08471	-.10535	-.12257	-.11904	.32294
4.600	-1.777	-.00221	-.17600	.24535	.09037	.00000	-.08470	-.10596	-.12193	-.11840	.32596
4.600	-.757	-.00190	-.13769	.24091	.07775	.00000	-.08471	-.10660	-.12195	-.11904	.32231
4.600	.251	-.00144	-.10486	.23697	.06950	.00000	-.08533	-.10560	-.12195	-.11842	.31478
4.600	1.269	-.00216	-.07029	.23365	.06038	.00000	-.08533	-.10723	-.12132	-.11779	.31039
4.600	2.282	-.00200	-.03593	.23029	.04948	.00000	-.08596	-.10786	-.12008	-.11716	.30913
4.600	4.316	-.00191	.04052	.22469	.02404	.00000	-.08596	-.10786	-.12008	-.11591	.30851
4.600	6.345	-.00126	.11694	.21771	-.00212	.00000	-.08660	-.10787	-.11947	-.11465	.30485
4.600	8.377	-.00090	.19872	.21178	-.03269	.00000	-.08659	-.10849	-.11983	-.11402	.30286
4.600	10.411	-.00143	.28412	.20658	-.06503	.00000	-.08533	-.10848	-.11819	-.11401	.29335
	GRADIENT	.00006	.03565	-.00378	-.01085	.00000	-.00019	-.00034	.00033	.00038	-.00242

UPWT 1088/1119 (IA-44) CONFIGURATION 02/74/58

(XHB012) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.-FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BSFLAF = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CPTC	CFSR8	CFSR2N	CFET
1.600	-10.661	-.05187	-.78754	.45506	.30945	-.20993	-.21981	-.21635	-.30653	-.27332	-.26133
1.600	-9.567	-.05148	-.61837	.45205	.24021	-.21275	-.22359	-.21978	-.30526	-.27269	-.25982
1.600	-6.455	-.04961	-.45971	.44515	.17881	-.20593	-.21982	-.21578	-.29654	-.26210	-.25199
1.600	-4.659	-.04656	-.33916	.43945	.13206	-.19968	-.21046	-.21016	-.28965	-.24926	-.24953
1.600	-2.253	-.04574	-.17757	.43626	.07132	-.19533	-.20171	-.20113	-.28623	-.24647	-.24699
1.600	-1.202	-.04514	-.10714	.43530	.04500	-.19627	-.20108	-.19957	-.28717	-.24935	-.24261
1.600	-.146	-.04661	-.04425	.43452	.02265	-.19937	-.20230	-.20110	-.29059	-.25145	-.24195
1.600	.904	-.04238	.02090	.43383	-.00184	-.20187	-.20262	-.20235	-.29059	-.25114	-.24540
1.600	1.957	-.04396	.08253	.43305	-.02531	-.20221	-.20276	-.20238	-.29062	-.25054	-.25013
1.600	4.055	-.04272	.20412	.42807	-.07505	-.19503	-.20797	-.18996	-.30568	-.25749	-.23514
1.600	6.145	-.04096	.31572	.42411	-.11655	-.17630	-.17413	-.17691	-.31317	-.26590	-.23396
1.600	8.246	-.03964	.43553	.42272	-.15955	-.17567	-.17288	-.17650	-.31004	-.26465	-.23167
1.600	10.421	-.03897	.56044	.42051	-.19579	-.17849	-.17821	-.17869	-.31411	-.26747	-.22949
	GRADIENT	.00047	.06214	-.00118	-.02356	.00042	.00199	.00157	-.00165	-.00095	.00099

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOR5	CPTC	CFSR8	CFSR2N	CFET
2.000	-10.053	-.05661	-.70891	.41213	.27793	-.14826	-.15495	-.15364	-.22968	-.20697	-.19806
2.000	-7.967	-.05447	-.55959	.40551	.21538	-.14929	-.15655	-.15692	-.21955	-.20308	-.19046
2.000	-5.861	-.05118	-.41824	.39720	.15931	-.14986	-.16004	-.15903	-.20910	-.18693	-.18993
2.000	-4.085	-.04954	-.30231	.39260	.11611	-.14828	-.15762	-.15587	-.20783	-.17679	-.18597
2.000	-1.701	-.04867	-.16672	.38959	.06907	-.14913	-.15551	-.15578	-.21759	-.18114	-.18097
2.000	-.644	-.04775	-.10776	.38635	.04949	-.14936	-.15510	-.15620	-.22133	-.18392	-.17634
2.000	.404	-.04710	-.05015	.38498	.02990	-.14996	-.15475	-.15497	-.22258	-.18516	-.17379
2.000	1.441	-.04630	.00418	.38282	.01049	-.15254	-.15575	-.15539	-.22419	-.18805	-.17318
2.000	2.492	-.04659	.06052	.38099	-.01043	-.15297	-.15491	-.15508	-.22357	-.18938	-.16939
2.000	4.589	-.04629	.17925	.37954	-.05922	-.15192	-.15100	-.15255	-.21977	-.18938	-.17161
2.000	6.693	-.04438	.30426	.37933	-.11026	-.15540	-.15386	-.15572	-.21628	-.18426	-.16749
2.000	8.776	-.04127	.42592	.37695	-.15293	-.15567	-.15222	-.15536	-.21403	-.18200	-.16427
2.000	10.961	-.03947	.55034	.37237	-.19874	-.14842	-.14368	-.14716	-.21722	-.18520	-.16557
	GRADIENT	.00041	.05520	-.00157	-.01990	-.00036	.00062	.00034	-.00142	-.00145	.00195

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/58

(XH8012) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.518	-.01597	-.49509	.30786	.18783	-.05891	-.05625	-.05561	-.08035	-.05559	.26781
3.900	-8.466	-.01786	-.41424	.29856	.16276	-.05944	-.05624	-.05668	-.07991	-.05666	.21511
3.900	-6.426	-.01870	-.33909	.28610	.14238	-.06105	-.05785	-.05775	-.07991	-.05881	.16776
3.900	-4.368	-.01935	-.25722	.27467	.11597	-.06428	-.06217	-.06099	-.08088	-.06258	.15647
3.900	-2.346	-.02015	-.18321	.26560	.09372	-.06588	-.06377	-.06250	-.08087	-.06419	.11720
3.900	-1.324	-.02097	-.14396	.26240	.08142	-.06491	-.06324	-.06260	-.07927	-.06473	.10900
3.900	-.305	-.02148	-.10299	.25962	.06990	-.06589	-.06378	-.06206	-.07820	-.06420	.10258
3.900	.708	-.02172	-.06844	.25536	.05856	-.06696	-.06485	-.06369	-.07766	-.06527	.09940
3.900	1.731	-.02131	-.03381	.25239	.04839	-.06859	-.06648	-.06476	-.07713	-.06582	.09340
3.900	3.776	-.02279	-.03993	.24789	.02505	-.06859	-.06756	-.06594	-.07659	-.06473	.09184
3.900	5.824	-.02392	.12282	.24321	-.00339	-.06751	-.06649	-.06477	-.07445	-.06204	.12142
3.900	7.869	-.02525	.21033	.23875	-.03579	-.06752	-.06649	-.06477	-.07285	-.06097	.09444
3.900	9.907	-.02505	.29183	.23379	-.06444	-.06913	-.06757	-.06531	-.07338	-.06313	.05512
	GRADIENT	-.00039	.03655	-.00329	-.01115	-.00058	-.00057	-.00058	.00061	-.00029	-.00735

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.885	-.01661	-.45236	.29834	.16947	-.03718	-.03380	-.03229	-.05562	-.03226	.24375
4.600	-7.852	-.01701	-.38316	.28504	.15111	-.03855	-.03379	-.03297	-.05562	-.03363	.19145
4.600	-5.821	-.01897	-.30125	.27322	.12706	-.03790	-.03315	-.03233	-.05358	-.03230	.18691
4.600	-3.798	-.01919	-.23355	.26066	.10659	-.03993	-.03518	-.03505	-.05562	-.03571	.17758
4.600	-1.204	-.01990	-.14452	.24628	.08098	-.04256	-.03791	-.03709	-.05698	-.03913	.12745
4.600	-.748	-.01975	-.13165	.24331	.07723	-.04335	-.03929	-.03778	-.05698	-.03992	.13159
4.600	.267	-.02069	-.09150	.23982	.06471	-.04337	-.03793	-.03711	-.05562	-.03946	.14112
4.600	1.285	-.02183	-.04914	.23654	.05239	-.04065	-.03660	-.03509	-.05222	-.03575	.13804
4.600	2.303	-.02225	-.00917	.23479	.04033	-.04133	-.03590	-.03439	-.05094	-.03574	.13466
4.600	4.334	-.02215	.05856	.22769	.02010	-.04339	-.03854	-.03713	-.05289	-.03641	.13823
4.600	6.360	-.02264	.12610	.22118	-.00283	-.04407	-.03864	-.03713	-.05152	-.03641	.09345
4.600	8.389	-.02297	.20162	.21464	-.03098	-.04544	-.04000	-.03918	-.05288	-.03846	.06183
4.600	10.431	-.02371	.28305	.20991	-.05995	-.04270	-.03865	-.03645	-.04947	-.03779	.03957
	GRADIENT	-.00044	.03638	-.00390	-.01096	-.00021	-.00018	-.00002	.00065	.00017	-.00334

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION OS/T4/S7

(X49013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 DREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAT = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFYC	CFSRB	CFSRBN	CFET
1.600	-10.644	-.05155	-.76416	.45353	.29209	-.19923	.00000	-.20878	-.30928	-.26511	-.24810
1.600	-8.566	-.05115	-.59399	.45095	.22219	-.20133	.00000	-.21087	-.30442	-.25903	-.24421
1.600	-6.452	-.04773	-.44161	.44509	.16391	-.19599	.00000	-.20450	-.29830	-.24480	-.24187
1.600	-4.656	-.04672	-.32109	.44143	.11938	-.19152	.00000	-.20169	-.29361	-.23761	-.23912
1.600	-2.253	-.04659	-.16646	.43953	.06027	-.18864	.00000	-.19595	-.29231	-.24005	-.23430
1.600	-1.199	-.04335	-.10773	.43841	.03887	-.18855	.00000	-.19592	-.29381	-.24091	-.23189
1.600	-.147	-.04449	-.03765	.43835	.01349	-.18914	.00000	-.19432	-.29591	-.24276	-.23043
1.600	.907	-.04440	.02397	.43814	-.00943	-.19021	.00000	-.19258	-.29982	-.24318	-.23274
1.600	1.947	-.04479	.08024	.43524	-.03015	-.19186	.00000	-.19299	-.29925	-.24327	-.23752
1.600	4.048	-.04321	.19998	.43203	-.07939	-.18983	.00000	-.18853	-.31296	-.24600	-.22240
1.600	6.129	-.04048	.30991	.42931	-.12191	-.16892	.00000	-.17132	-.31763	-.25379	-.21955
1.600	8.232	-.04013	.42294	.42793	-.16136	-.16923	.00000	-.17157	-.31164	-.24717	-.21542
1.600	10.415	-.03909	.55084	.42534	-.20329	-.17139	.00000	-.17472	-.31135	-.24731	-.21169
	GRADIENT	.00037	.05981	-.00098	-.02261	.00076	.00000	.00185	-.00212	-.00093	.00121

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFYC	CFSRB	CFSRBN	CFET
2.000	-10.044	-.05358	-.69775	.41266	.26674	-.14272	.00000	-.14779	-.23338	-.20231	-.18872
2.000	-7.972	-.05233	-.54747	.40631	.20508	-.14401	.00000	-.15035	-.22293	-.19409	-.18081
2.000	-5.867	-.05172	-.40314	.40056	.14852	-.14346	.00000	-.15138	-.21665	-.17894	-.17961
2.000	-4.092	-.04904	-.29542	.39699	.10918	-.14190	.00000	-.14950	-.21222	-.17325	-.17677
2.000	-1.702	-.04844	-.16144	.39425	.06291	-.14456	.00000	-.14982	-.21948	-.17394	-.16975
2.000	-.656	-.04732	-.10717	.39183	.04402	-.14533	.00000	-.14914	-.22201	-.17289	-.16563
2.000	.392	-.04702	-.05175	.39006	.02578	-.14754	.00000	-.15103	-.22328	-.17384	-.16245
2.000	1.441	-.04603	.00455	.38896	.00550	-.14913	.00000	-.15230	-.22613	-.17606	-.16150
2.000	2.489	-.04521	.05652	.38625	-.01307	-.14914	.00000	-.15263	-.22519	-.17829	-.15866
2.000	4.575	-.04502	.16930	.38510	-.05998	-.14911	.00000	-.15165	-.21979	-.17922	-.16212
2.000	6.667	-.04369	.28838	.38387	-.10941	-.14721	.00000	-.15291	-.21662	-.17795	-.15895
2.000	8.760	-.04149	.40797	.38217	-.15233	-.14894	.00000	-.15233	-.21633	-.17735	-.15519
2.000	10.951	-.04011	.53686	.37955	-.19192	-.14091	.00000	-.14473	-.21854	-.17829	-.15612
	GRADIENT	.00053	.05342	-.00145	-.01919	-.00095	.00000	-.00043	-.00104	-.00079	.00190

UPWT 1089/1119 (IA-44) CONFIGURATION 03/14/57

(XH0013) (03 JAN 75)

REFERENCE DATA

SREF = 2599.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1299.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1299.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUGGER = .000
 SFD9RX = .000 BDFLAP = .000

RUN NO. D/ D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFSRB	CFSMS	CFTC	CFSRB	CFSRBN	CFET
2.500	-10.912	-.01550	-.67872	.37471	.26573	-.14060	-.03189	-.13436	-.19128	-.16763	-.15900
2.500	-8.826	-.01491	-.55985	.36471	.21337	-.13876	-.03428	-.13177	-.18943	-.16880	-.15543
2.500	-6.734	-.01495	-.42536	.35514	.16368	-.14033	-.03781	-.13222	-.18877	-.16771	-.15284
2.500	-4.652	-.01604	-.31327	.35101	.12199	-.14262	-.04051	-.13376	-.18759	-.16205	-.14645
2.500	-2.572	-.01646	-.20206	.35003	.08533	-.14482	-.04149	-.13594	-.18718	-.16163	-.14374
2.500	-1.533	-.01831	-.15649	.34899	.07375	-.14527	-.04166	-.13678	-.18685	-.16169	-.14155
2.500	-.490	-.01674	-.10972	.34658	.06197	-.14711	-.04270	-.13863	-.18683	-.16090	-.13963
2.500	.545	-.01859	-.06683	.34520	.05197	-.14902	-.04199	-.14091	-.18571	-.16016	-.14040
2.500	1.575	-.01917	-.02413	.34219	.03952	-.14971	-.04184	-.14197	-.18492	-.16238	-.14033
2.500	3.651	-.01976	.07154	.33860	.02577	-.15277	-.04384	-.14542	-.18345	-.16053	-.13698
2.500	5.723	-.02067	.17769	.33602	-.03548	-.15014	-.05330	-.14204	-.18308	-.15563	-.13549
2.500	7.817	-.02214	.30341	.33409	-.09712	-.15127	-.05821	-.14204	-.18233	-.15374	-.12832
2.500	9.898	-.02336	.42496	.33129	-.13372	-.15238	-.06081	-.14428	-.18232	-.15334	-.12112
GRADIENT		-.00047	.04554	-.00159	-.01327	-.00124	-.00033	-.00144	.00051	.00014	.00105

RUN NO. D/ D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFSRB	CFSMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.619	-.01747	-.63655	.33261	.24896	-.12083	-.02703	-.11116	-.15394	-.13436	-.12257
2.860	-8.540	-.01663	-.52676	.34554	.20686	-.12084	-.02786	-.11199	-.15435	-.13478	-.12258
2.860	-6.464	-.01664	-.41811	.33650	.16923	-.12124	-.03114	-.11404	-.15434	-.13560	-.12256
2.860	-4.387	-.01871	-.30107	.32882	.12948	-.12209	-.03203	-.11448	-.15230	-.13437	-.11844
2.860	-2.323	-.01902	-.20143	.32065	.09744	-.12374	-.03452	-.11614	-.15230	-.13354	-.11513
2.860	-1.295	-.01952	-.15313	.31854	.08241	-.12539	-.03533	-.11779	-.15105	-.13230	-.11264
2.860	-.250	-.01941	-.11285	.31627	.07155	-.12872	-.03703	-.12154	-.15189	-.13231	-.11100
2.860	.796	-.02081	-.06745	.31375	.05779	-.12828	-.03654	-.12193	-.15105	-.13104	-.10972
2.860	1.914	-.02163	-.02221	.31152	.04243	-.12993	-.03571	-.12275	-.14992	-.13311	-.10848
2.860	3.976	-.02243	.06658	.30794	.02998	-.12954	-.03993	-.12237	-.14818	-.13149	-.10759
2.860	5.931	-.02331	.16331	.30357	-.02701	-.12789	-.04283	-.11999	-.14654	-.12958	-.10603
2.860	8.002	-.02356	.27380	.30004	-.07059	-.12787	-.04611	-.11945	-.14571	-.12566	-.10063
2.860	10.074	-.02350	.39244	.29751	-.11617	-.12746	-.04919	-.11904	-.14406	-.12442	-.09400
GRADIENT		-.00049	.04412	-.00246	-.01413	-.00104	-.00081	-.00113	.00049	.00032	.00136

UFWT 1988/1119 (IA-44) CONFIGURATION 03/14/57

(X48013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHRF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRBK = .000 BDFLAP = .000

RUN NO. 0/ 0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFDRB	CFDMS	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.509	-.01866	-.50134	.30334	.18925	-.07650	-.01375	-.06439	-.09159	-.05292	-.05374
3.900	-8.475	-.01943	-.42328	.29310	.16364	-.07595	-.01648	-.06439	-.09213	-.05510	-.05329
3.900	-6.432	-.02000	-.34655	.28151	.14134	-.07759	-.02305	-.06632	-.09375	-.05783	-.05429
3.900	-4.386	-.02091	-.26156	.27143	.11319	-.07759	-.02576	-.06548	-.09257	-.05893	-.05430
3.900	-2.351	-.02046	-.18511	.26309	.08963	-.07922	-.02903	-.06765	-.09375	-.06328	-.05494
3.900	-1.332	-.02026	-.14999	.25961	.07970	-.08084	-.03060	-.06982	-.09267	-.06599	-.05480
3.900	-.302	-.02073	-.10953	.25683	.06587	-.08095	-.03065	-.06929	-.09159	-.06601	-.05374
3.900	.714	-.02063	-.07432	.25374	.05714	-.08149	-.03175	-.07039	-.09159	-.06710	-.05375
3.900	1.735	-.02035	-.04263	.25128	.04908	-.08249	-.03284	-.07202	-.09159	-.06819	-.05429
3.900	3.771	-.02072	-.03596	.24765	.02227	-.08357	-.03283	-.07255	-.09050	-.06873	-.05319
3.900	5.817	-.02099	-.11624	.24299	-.00532	-.08303	-.03227	-.07256	-.08934	-.06709	-.05154
3.900	7.866	-.02216	-.21293	.23932	-.04198	-.08193	-.03226	-.07146	-.08617	-.06544	-.04936
3.900	9.910	-.02185	-.30299	.23602	-.07342	-.08139	-.03335	-.07037	-.08508	-.06709	-.04772
	GRADIENT	.00001	.03519	-.00291	-.01091	-.00072	-.00065	-.00088	.00033	-.00117	.00015

RUN NO. 0/ 0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFDRB	CFDMS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.894	-.00427	-.46961	.29328	.17289	-.05917	-.00933	-.04372	-.07145	-.04788	.01302
4.600	-7.853	-.00531	-.39212	.27941	.15060	-.05778	-.00833	-.04303	-.07145	-.04649	.00169
4.600	-5.837	-.00710	-.31700	.26699	.12939	-.05948	-.01531	-.04303	-.07145	-.04511	-.00926
4.600	-3.796	-.00900	-.24210	.25574	.10650	-.05848	-.01813	-.04374	-.07075	-.04512	-.01277
4.600	-1.766	-.01047	-.16321	.24617	.08248	-.05917	-.02089	-.04443	-.07145	-.04590	-.01552
4.600	-.750	-.01013	-.08626	.24080	.07478	-.06254	-.02431	-.04719	-.07353	-.04896	-.02033
4.600	.273	-.01144	-.00914	.23707	.06392	-.06195	-.02365	-.04651	-.07214	-.04719	-.02038
4.600	1.295	-.01230	-.06009	.23343	.05299	-.06266	-.02505	-.04651	-.07145	-.04649	-.02107
4.600	2.300	-.01215	-.02974	.23024	.04520	-.06334	-.02573	-.04790	-.07214	-.04649	-.02315
4.600	4.327	-.01347	-.04679	.22537	.01938	-.06334	-.02542	-.04799	-.07076	-.04508	-.02313
4.600	6.358	-.01429	-.11360	.21730	-.00450	-.06334	-.02711	-.04929	-.07007	-.04578	-.02453
4.600	8.398	-.01536	-.20324	.21285	-.03524	-.06473	-.02951	-.04999	-.07076	-.04717	-.02522
4.600	10.429	-.01658	-.29726	.20899	-.07205	-.06265	-.02794	-.04790	-.06730	-.04788	-.02316
	GRADIENT	-.00055	.03527	-.00376	-.01043	-.00055	-.00102	-.00054	.00002	.00002	-.00135

UPWT 1099/1119 (IA-44) CONFIGURATION: 02/T4/S7

(XHS014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 BDFLAG = .000

RUN NO. 0/ 0 RWL = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR3	CFOR5	CFTC	CFSR3	CFSR5N	CFET
1.600	-10.631	-.06602	-.76777	.45840	.28996	-.23273	-.24721	.19751	-.32540	-.29070	-.24493
1.600	-8.545	-.06704	-.59857	.45735	.21946	-.23460	-.24868	.17467	-.32796	-.28765	-.24461
1.600	-6.434	-.06515	-.44738	.45214	.16214	-.23206	-.24525	.16000	-.32401	-.27885	-.24268
1.600	-4.638	-.06491	-.32269	.44825	.11553	-.22733	-.23785	.13490	-.31138	-.26743	-.24230
1.600	-2.228	-.06760	-.16672	.44427	.05641	-.22856	-.23297	.03781	-.31131	-.26253	-.24688
1.600	-1.174	-.06646	-.09984	.44225	.03216	-.23058	-.23376	.01420	-.31404	-.26386	-.24916
1.600	-.122	-.06666	-.03999	.44152	.01077	-.23093	-.23279	.00337	-.31461	-.26320	-.24820
1.600	.939	-.06658	.03113	.44069	-.01518	-.23245	-.23351	-.00114	-.31903	-.26454	-.24496
1.600	1.988	-.06793	.09359	.43843	-.03949	-.23332	-.23376	-.00310	-.31982	-.26396	-.24125
1.600	4.074	-.06656	.20958	.43369	-.09787	-.22997	-.22187	.00327	-.32864	-.27055	-.22724
1.600	6.172	-.06673	.32895	.43266	-.13435	-.21522	-.21772	.01157	-.33389	-.27156	-.22432
1.600	8.274	-.06778	.44931	.43216	-.17631	-.21631	-.22126	.02906	-.33016	-.26994	-.22298
1.600	10.451	-.06582	.57152	.42974	-.21367	-.21999	-.22465	.01475	-.33565	-.27575	-.22545
	GRADIENT	-.00016	.06130	-.00157	-.02316	.00000	.00137	-.01404	-.00198	-.00032	.00161

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR3	CFOR5	CFTC	CFSR3	CFSR5N	CFET
2.000	-10.002	-.06895	-.67482	.41335	.25567	-.18242	-.19369	.36134	-.25691	-.22483	-.17385
2.000	-7.927	-.06748	-.53034	.40581	.19580	-.18367	-.19588	.30067	-.24703	-.22206	-.17263
2.000	-5.831	-.06834	-.38934	.39918	.14244	-.18400	-.19521	.28539	-.23933	-.20601	-.17327
2.000	-4.042	-.06753	-.27821	.39447	.10222	-.18242	-.19277	.27636	-.23621	-.19825	-.17107
2.000	-1.648	-.06858	-.14529	.39068	.05702	-.18491	-.19000	.23250	-.24550	-.19796	-.17017
2.000	-.602	-.06912	-.09281	.38865	.03983	-.18675	-.18958	.19308	-.24858	-.19825	-.17046
2.000	.436	-.06980	-.03851	.38648	.02127	-.19011	-.19181	.15682	-.24763	-.20039	-.16949
2.000	1.482	-.06955	.01948	.38479	.00097	-.19294	-.19403	.13170	-.24797	-.20105	-.16769
2.000	2.521	-.06915	.07054	.38167	-.01878	-.19323	-.19433	.12156	-.24899	-.19950	-.16520
2.000	4.615	-.06799	.18913	.38028	-.07033	-.18647	-.19197	.12395	-.24612	-.19859	-.17018
2.000	6.707	-.06910	.31364	.38270	-.11995	-.18521	-.19223	.10594	-.24616	-.19833	-.16839
2.000	8.221	-.06934	.40838	.38173	-.15493	-.18372	-.18694	.11063	-.24614	-.20047	-.16495
2.000	10.492	-.06906	.56318	.37723	-.20106	-.17599	-.18134	.05799	-.24890	-.19798	-.16833
	GRADIENT	-.00010	.05356	-.00175	-.01953	-.00088	-.00020	-.01989	-.00105	-.00016	.00036

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/57

(XHB014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = .000 RUDDER = .000
 SDBSRK = .000 SDBLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORS	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.500	-10.907	-.01146	-.65879	.38121	.25202	-.14005	-.14182	-.13767	-.18338	-.15445	.19585
2.500	-8.817	-.01362	-.52857	.37091	.19866	-.13452	-.13777	-.13362	-.18155	-.15524	.16837
2.500	-6.724	-.01356	-.40695	.36155	.15057	-.13310	-.13635	-.13369	-.18122	-.15231	.13941
2.500	-4.638	-.01470	-.28570	.35730	.10509	-.13464	-.13678	-.13561	-.18015	-.15050	.10828
2.500	-2.566	-.01533	-.18626	.35362	.07404	-.13979	-.14119	-.13965	-.18160	-.15194	.10031
2.500	-1.521	-.01672	-.13709	.35310	.06126	-.14079	-.14220	-.13953	-.18103	-.15146	.09709
2.500	-.473	-.01820	-.08725	.35199	.04812	-.14037	-.14178	-.13911	-.17928	-.15068	.09496
2.500	.554	-.01936	-.04427	.34989	.03714	-.14150	-.14328	-.14061	-.17817	-.15143	.09517
2.500	1.594	-.02026	.00298	.34708	.02301	-.14349	-.14496	-.14177	-.17782	-.15333	.09346
2.500	3.659	-.02079	.09455	.34269	-.00916	-.14599	-.14554	-.14511	-.17707	-.15192	.09692
2.500	5.730	-.02197	.20398	.34072	-.05148	-.14346	-.14263	-.14108	-.17526	-.14704	.09663
2.500	7.819	-.02399	.32105	.33979	-.09793	-.14756	-.14599	-.14706	-.17490	-.14518	.09176
2.500	9.907	-.02569	.43765	.33556	-.14256	-.14676	-.14370	-.14440	-.17301	-.14364	.09092
	GRADIENT	-.00085	.04571	-.00171	-.01336	-.00122	-.00096	-.00099	.00053	-.00018	-.00714

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORS	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.608	-.01359	-.61359	.36039	.23509	-.11998	-.11012	-.10883	-.13845	-.11537	.24159
2.860	-8.545	-.01379	-.50536	.35119	.19445	-.11220	-.11216	-.10964	-.14007	-.11987	.19331
2.860	-6.457	-.01488	-.39642	.34247	.15667	-.11222	-.11301	-.10925	-.14090	-.12371	.14975
2.860	-4.365	-.01720	-.27850	.33375	.11673	-.11222	-.11341	-.10966	-.14009	-.12030	.12438
2.860	-2.312	-.01801	-.18470	.32544	.08741	-.11507	-.11710	-.11416	-.14171	-.12193	.10690
2.860	-1.270	-.01974	-.13422	.32366	.07128	-.11395	-.11587	-.11376	-.13927	-.12030	.10901
2.860	-.239	-.01939	-.09557	.32127	.06124	-.11672	-.11934	-.11653	-.14090	-.12153	.09939
2.860	.786	-.01968	-.05333	.31755	.04899	-.11713	-.11875	-.11653	-.13968	-.12194	.08393
2.860	1.811	-.02101	-.00672	.31547	.03252	-.11714	-.11935	-.11664	-.13846	-.12154	.07477
2.860	3.890	-.02332	.08502	.31211	-.00169	-.11837	-.11917	-.11746	-.13643	-.11949	.07272
2.860	5.936	-.02413	.17899	.30861	-.03769	-.11877	-.11957	-.11704	-.13479	-.11579	.06629
2.860	8.015	-.02609	.29454	.30635	-.08355	-.11836	-.11916	-.11704	-.13072	-.11170	.06136
2.860	10.090	-.02585	.40552	.30250	-.12599	-.11937	-.11712	-.11592	-.13114	-.11171	.06902
	GRADIENT	-.00070	.04369	-.00260	-.01400	-.00074	-.00066	-.00090	.00048	.00005	-.00681

UPWT 1080/1119 (IA-44) CONFIGURATION 02/T4/S7

(XHB014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
3.900	-10.520	-.01192	-.49403	.31089	.19389	-.05377	-.05000	-.05101	-.07361	-.04667	.27002
3.900	-8.465	-.01400	-.41120	.30179	.15889	-.05432	-.05004	-.05102	-.07255	-.04930	.21603
3.900	-6.432	-.01501	-.33916	.28946	.13946	-.05541	-.05059	-.05373	-.07363	-.05047	.18144
3.900	-4.398	-.01745	-.25586	.27767	.11278	-.05755	-.05381	-.05425	-.07362	-.05207	.16916
3.900	-2.344	-.01751	-.18650	.26913	.09274	-.05917	-.05598	-.05642	-.07469	-.05532	.12058
3.900	-1.326	-.01869	-.14099	.26732	.07798	-.05963	-.05598	-.05534	-.07148	-.05531	.10552
3.900	-.307	-.01925	-.10647	.26417	.06776	-.06025	-.05760	-.05696	-.07149	-.05639	.10066
3.900	.709	-.01953	-.07036	.26016	.05667	-.06132	-.05922	-.05898	-.07201	-.05747	.10390
3.900	1.730	-.01989	-.03265	.25789	.04496	-.06133	-.05869	-.05750	-.07041	-.05640	.10710
3.900	3.790	-.02202	.04897	.25537	.01769	-.06025	-.05814	-.05750	-.06773	-.05370	.10603
3.900	5.809	-.02255	.12524	.24965	-.00922	-.06240	-.06030	-.05912	-.06826	-.05424	.13623
3.900	7.865	-.02397	.21744	.24577	-.04420	-.06132	-.05922	-.05803	-.06666	-.05208	.10445
3.900	9.910	-.02390	.30050	.24135	-.07342	-.06240	-.06030	-.05912	-.06719	-.05424	.06671
	GRADIENT	-.00056	.03724	-.00206	-.01159	-.00041	-.00061	-.00043	.00074	-.00025	-.00656

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
4.600	-9.881	-.01347	-.45333	.30165	.16766	-.02856	-.02460	-.02378	-.04707	-.02168	.24133
4.600	-7.875	-.01393	-.38652	.28764	.15006	-.03000	-.02525	-.02512	-.04774	-.02440	.19206
4.600	-5.819	-.01566	-.30908	.27508	.12925	-.03002	-.02527	-.02514	-.04638	-.02373	.19740
4.600	-3.787	-.01677	-.23902	.26244	.10723	-.03279	-.02735	-.02722	-.04639	-.02591	.17669
4.600	-1.772	-.01820	-.16318	.25273	.08343	-.03347	-.02804	-.02791	-.04639	-.02719	.11411
4.600	-.744	-.01785	-.12957	.24682	.07326	-.03549	-.03006	-.02993	-.04773	-.02921	.11502
4.600	.268	-.01902	-.08949	.24371	.06126	-.03415	-.02972	-.02928	-.04570	-.02787	.12655
4.600	1.287	-.01902	-.05949	.23922	.05387	-.03551	-.03008	-.03064	-.04537	-.02854	.12179
4.600	2.297	-.01957	-.02152	.23669	.04253	-.03482	-.03009	-.02995	-.04501	-.02854	.12592
4.600	4.325	-.01973	.04903	.23069	.02006	-.03698	-.03145	-.03132	-.04568	-.02853	.15558
4.600	6.349	-.02110	.12542	.22465	-.00793	-.03687	-.03213	-.03062	-.04499	-.02783	.11365
4.600	8.390	-.02152	.20274	.21893	-.03576	-.03620	-.03215	-.03064	-.04364	-.02785	.06949
4.600	10.421	-.02236	.29620	.21384	-.06674	-.03620	-.03146	-.02995	-.04159	-.02854	.04747
	GRADIENT	-.00037	.03523	-.00391	-.01055	-.00045	-.00049	-.00050	.00016	-.00030	-.00126

UPWT 1089/1119 (1A-44) CONFIGURATION 02/T4/S7

(XHB015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RT = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPDRK = .000 BOFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFRB	CFMS	CFC	CFSRB	CFSRBN	CFET
1.600	-10.640	-.06603	-.78155	.46293	.30184	-.22477	-.23619	.20277	-.31848	-.28495	-.23362
1.600	-8.518	-.06517	-.60600	.46072	.22933	-.22673	-.23785	.19069	-.32080	-.28298	-.23345
1.600	-6.425	-.06516	-.44886	.45613	.16939	-.22338	-.23388	.17517	-.31531	-.27169	-.23070
1.600	-4.632	-.06394	-.33095	.45042	.12477	-.22149	-.22923	.14182	-.30367	-.26218	-.23451
1.600	-2.223	-.06346	-.17295	.44637	.06499	-.22085	-.22309	.02722	-.30388	-.25510	-.23944
1.600	-1.172	-.06529	-.10543	.44451	.04093	-.22422	-.22494	-.00628	-.30916	-.25756	-.24374
1.600	-.118	-.06599	-.03994	.44393	.01611	-.22417	-.22396	-.01693	-.31025	-.25751	-.24216
1.600	.937	-.06568	.02579	.44264	-.00793	-.22630	-.22498	-.01957	-.31269	-.25995	-.24003
1.600	1.995	-.06517	.08840	.44026	-.03160	-.22833	-.22631	-.01929	-.31193	-.26013	-.23556
1.600	4.077	-.06718	.20348	.43552	-.08076	-.21564	-.21418	-.01275	-.32296	-.26752	-.22262
1.600	6.172	-.06625	.32760	.43477	-.12960	-.20902	-.20936	.00083	-.32665	-.26727	-.21841
1.600	8.269	-.06595	.44455	.43389	-.17042	-.21162	-.21320	.00498	-.32413	-.26625	-.21890
1.600	10.459	-.06568	.57252	.43172	-.21059	-.21430	-.21589	-.00678	-.32988	-.27199	-.22067
	GRADIENT	-.00028	.06159	-.00162	-.02345	.00012	.00119	-.01634	-.00214	-.00071	.00121

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFRB	CFMS	CFC	CFSRB	CFSRBN	CFET
2.000	-10.016	-.06762	-.70564	.41765	.27687	-.16963	-.17869	.25485	-.24687	-.21541	-.15577
2.000	-7.935	-.06793	-.55369	.41080	.21409	-.16994	-.17933	.23692	-.23732	-.21234	-.15333
2.000	-5.835	-.06751	-.40724	.40417	.15595	-.17098	-.18055	.24032	-.22742	-.19626	-.15496
2.000	-4.054	-.06734	-.30009	.39906	.11579	-.17028	-.17840	.22926	-.22527	-.18917	-.15395
2.000	-1.656	-.06784	-.16241	.39619	.06766	-.17190	-.17477	.21598	-.23212	-.18739	-.15280
2.000	-.625	-.06893	-.11286	.39309	.05132	-.17507	-.17578	.17661	-.23712	-.18932	-.15660
2.000	.436	-.06936	-.05002	.39175	.02957	-.17660	-.17576	.14093	-.23834	-.18900	-.15473
2.000	1.472	-.06895	.00215	.38963	.01039	-.17903	-.17790	.11759	-.23585	-.18990	-.15377
2.000	2.515	-.06977	.05996	.38722	-.01074	-.18060	-.17947	.10674	-.23711	-.18839	-.15041
2.000	4.606	-.07021	.17089	.38426	-.05936	-.17414	-.17639	.11164	-.23526	-.19025	-.15475
2.000	6.694	-.06936	.29422	.38635	-.10975	-.17660	-.18009	.09073	-.23865	-.19023	-.15597
2.000	8.810	-.06767	.42401	.38531	-.15739	-.17346	-.17323	.08594	-.23954	-.19296	-.15292
2.000	11.021	-.06935	.55521	.39309	-.19793	-.16589	-.16841	.05270	-.24085	-.18845	-.15573
	GRADIENT	-.00032	.05418	-.00178	-.01983	-.00093	-.00007	-.01649	-.00111	-.00015	.00010

UFWT 1089/1119 (1A-44) CONFIGURATION 02/14/57

(X48015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.500	-10.926	-.01644	-.68535	.37475	.26826	-.14911	-.14978	-.14500	-.19463	-.16659	.17215
2.500	-8.835	-.01724	-.55715	.36347	.21557	-.14434	-.14873	-.14122	-.19276	-.16804	.14374
2.500	-6.755	-.01564	-.43551	.35474	.16560	-.14035	-.14621	-.13984	-.19132	-.16327	.12136
2.500	-4.653	-.01604	-.31799	.34992	.12171	-.14328	-.14804	-.14166	-.19094	-.15138	.09211
2.500	-2.580	-.01449	-.21521	.34619	.09015	-.14726	-.15054	-.14526	-.19199	-.16278	.08439
2.500	-1.532	-.01685	-.16369	.34533	.07589	-.14718	-.15009	-.14518	-.19085	-.16234	.08878
2.500	-.499	-.01680	-.12156	.34282	.06581	-.15023	-.15203	-.14825	-.19162	-.16390	.07656
2.500	.542	-.01747	-.07186	.34033	.05246	-.15068	-.15136	-.14932	-.18944	-.16294	.05990
2.500	1.582	-.01873	-.02480	.33757	.03755	-.15174	-.15167	-.14938	-.18930	-.16466	.04743
2.500	3.648	-.01852	.06895	.33302	.00414	-.15469	-.15426	-.15234	-.18606	-.16053	.04157
2.500	5.718	-.01835	.16952	.32923	-.03422	-.15442	-.15361	-.15170	-.18575	-.15839	.04753
2.500	7.809	-.01916	.29092	.32890	-.09317	-.15851	-.15659	-.15691	-.18464	-.15466	.04643
2.500	9.891	-.02045	.40800	.32431	-.12836	-.15628	-.15250	-.15430	-.18279	-.15280	.04567
	GRADIENT	-.00044	.04633	-.00206	-.01374	-.00133	-.00065	-.00124	.00065	-.00002	-.00699

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.617	-.01801	-.64572	.35235	.25216	-.11883	-.11758	-.11597	-.14828	-.12997	.21852
2.860	-8.533	-.01741	-.53560	.34319	.21106	-.12012	-.11846	-.11635	-.15076	-.13312	.17060
2.860	-6.471	-.01773	-.42723	.33367	.17428	-.12086	-.12046	-.11793	-.15195	-.13226	.13859
2.860	-4.389	-.01845	-.31173	.32389	.13379	-.12212	-.12293	-.11958	-.15155	-.13227	.10782
2.860	-2.331	-.01801	-.21533	.31569	.10218	-.12457	-.12580	-.12245	-.15236	-.13308	.09992
2.860	-1.296	-.01909	-.16624	.31469	.09719	-.12376	-.12539	-.12165	-.15074	-.13186	.09981
2.860	-.253	-.02026	-.12045	.31314	.07357	-.12458	-.12581	-.12287	-.14952	-.13022	.08158
2.860	.771	-.01994	-.07943	.30993	.06183	-.12592	-.12563	-.12410	-.14952	-.13105	.06723
2.860	1.795	-.02035	-.04004	.30654	.04837	-.12789	-.12746	-.12535	-.14790	-.13188	.05939
2.860	3.961	-.02074	.04946	.30306	.01552	-.12868	-.12868	-.12656	-.14667	-.12900	.05210
2.860	5.927	-.02137	.14830	.29955	-.02207	-.12825	-.12867	-.12532	-.14504	-.12572	.05563
2.860	7.999	-.02196	.25663	.29702	-.05429	-.12969	-.12823	-.12557	-.14220	-.12286	.05024
2.860	10.073	-.02197	.36908	.29241	-.10718	-.12704	-.12521	-.12409	-.14139	-.12162	.04925
	GRADIENT	-.00034	.04345	-.00246	-.01399	-.00081	-.00064	-.00080	.00058	.00038	-.00707

UPWT 1098/1119 (IA-44) CONFIGURATION 02/14/57

(X48015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPDRK = .000 EDPLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFIC	CFSRB	CFSRBN	CFET
3.900	-10.535	-.01812	-.54620	.29989	.21216	-.06678	-.06253	-.06109	-.08708	-.06456	.26503
3.900	-8.492	-.01828	-.46997	.28910	.18875	-.06785	-.06306	-.06404	-.08915	-.06617	.20852
3.900	-6.457	-.01951	-.39282	.27729	.16741	-.06895	-.06524	-.06460	-.08869	-.06781	.16841
3.900	-4.406	-.01957	-.31248	.26592	.14155	-.07002	-.06578	-.06567	-.08816	-.06898	.13355
3.900	-2.366	-.01992	-.23370	.25749	.11680	-.07057	-.06686	-.06622	-.08762	-.06943	.10269
3.900	-1.345	-.01997	-.19616	.25353	.10506	-.07109	-.06739	-.06728	-.08708	-.07050	.09037
3.900	-.319	-.02070	-.15360	.25151	.09151	-.07057	-.06740	-.06676	-.08495	-.06943	.08760
3.900	.699	-.02097	-.11586	.24913	.08011	-.07110	-.06794	-.06793	-.08387	-.06835	.09515
3.900	1.722	-.02065	-.07969	.24554	.06900	-.07218	-.06902	-.06783	-.08280	-.06835	.09731
3.900	3.756	-.02129	-.04437	.24130	.04435	-.07218	-.06956	-.06891	-.08227	-.06727	.09299
3.900	5.799	-.02200	-.01677	.23673	.01551	-.07272	-.06956	-.06991	-.08120	-.06511	.11294
3.900	7.842	-.02251	.16268	.23226	-.01648	-.07326	-.07064	-.06945	-.08120	-.06511	.09328
3.900	9.898	-.02195	.24584	.22759	-.04586	-.07218	-.06955	-.06837	-.08012	-.06619	.04560
	GRADIENT	-.00022	.03781	-.00298	-.01188	-.00028	-.00047	-.00039	.00085	.00025	-.00577

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFMAS	CFIC	CFSRB	CFSRBN	CFET
4.600	-9.906	-.01957	-.52219	.28444	.20121	-.04795	-.04172	-.04227	-.06354	-.04293	.24088
4.600	-7.869	-.01883	-.44378	.27149	.17885	-.04234	-.03689	-.03814	-.06148	-.03949	.17203
4.600	-5.833	-.01917	-.37248	.25910	.15842	-.04599	-.03895	-.04020	-.06423	-.04086	.19297
4.600	-3.806	-.02049	-.29350	.24690	.13371	-.04373	-.03759	-.03915	-.06148	-.03881	.16711
4.600	-1.778	-.02033	-.22507	.23541	.11367	-.04373	-.03828	-.03954	-.06217	-.04019	.11796
4.600	-.769	-.02111	-.18502	.23091	.10059	-.04442	-.03828	-.03994	-.06148	-.04019	.10996
4.600	.245	-.02010	-.15509	.22517	.09235	-.04717	-.04103	-.04229	-.06423	-.04354	.10705
4.600	1.266	-.02063	-.11670	.22277	.08145	-.04717	-.04103	-.04228	-.06285	-.04294	.10359
4.600	2.287	-.02095	-.07942	.22050	.07009	-.04855	-.04173	-.04228	-.06217	-.04294	.10913
4.600	4.310	-.02092	-.01027	.21474	.04910	-.04719	-.04105	-.04230	-.06010	-.04157	.13118
4.600	6.328	-.02124	.06571	.20878	.02222	-.04924	-.04311	-.04367	-.06079	-.04294	.08419
4.600	8.369	-.02159	.14359	.20272	-.00600	-.04856	-.04243	-.04437	-.06010	-.04295	.05436
4.600	10.400	-.02156	.22354	.19756	-.03577	-.04856	-.04312	-.04368	-.05941	-.04295	.03565
	GRADIENT	-.00006	.03506	-.00391	-.01043	-.00061	-.00055	-.00060	.00010	-.00045	-.00391

UPWT 1089/1119 (IA-44) CONFIGURATION 02/T4/S7

(XH0016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -4.000 RUDDER = .000
 SPOBRK = .000 SPOFLAP = .000

RUN NO. 0/0 RNL = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFCRB	CFCMS	CFTC	CFSRB	CFSRBN	CFET
1.600	-10.637	-.06789	-.76997	.46665	.29542	-.22479	-.23750	.25405	-.31880	-.28559	-.22361
1.600	-8.535	-.06964	-.59399	.46516	.22363	-.22646	-.23886	.24640	-.32104	-.28236	-.22101
1.600	-6.422	-.06769	-.44103	.45930	.16517	-.22595	-.23714	.23108	-.31815	-.27426	-.22050
1.600	-4.630	-.06745	-.32050	.45434	.11999	-.22017	-.22951	.19281	-.30665	-.26333	-.22234
1.600	-2.221	-.06755	-.16438	.45119	.06140	-.22228	-.22490	.07080	-.30511	-.25659	-.23148
1.600	-1.168	-.06641	-.10149	.44908	.03812	-.22440	-.22611	.04013	-.30868	-.25808	-.23573
1.600	-.114	-.06640	-.03382	.44761	.01424	-.22609	-.22659	.02492	-.31186	-.25945	-.23468
1.600	.944	-.06789	.03149	.44771	-.01020	-.22648	-.22545	.01444	-.31405	-.25984	-.23049
1.600	1.989	-.06642	.09847	.44531	-.03188	-.22818	-.22695	.01414	-.31510	-.26121	-.22762
1.600	4.084	-.06726	.21287	.44092	-.08458	-.21474	-.21427	.02193	-.32257	-.26598	-.21262
1.600	6.174	-.06932	.32849	.43947	-.12945	-.20967	-.21040	.03179	-.32749	-.26697	-.20967
1.600	8.275	-.06769	.44478	.43978	-.17038	-.21191	-.21479	.03341	-.32453	-.26677	-.21040
1.600	10.460	-.07004	.57539	.43723	-.21142	-.21395	-.21683	.00504	-.32934	-.27004	-.21092
	GRADIENT	.00004	.06112	-.00148	-.02321	.00015	.00126	-.01849	-.00194	-.00045	.00107

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFCRB	CFCMS	CFTC	CFSRB	CFSRBN	CFET
2.000	-9.998	-.07123	-.67873	.41911	.26393	-.17200	-.18174	.27311	-.24853	-.21581	-.12980
2.000	-7.925	-.06890	-.53624	.41128	.20571	-.17236	-.18364	.27415	-.23870	-.21377	-.12967
2.000	-5.822	-.06997	-.39170	.40522	.14917	-.17274	-.18371	.26653	-.22857	-.19718	-.13119
2.000	-4.044	-.07061	-.28366	.40036	.10959	-.17123	-.18065	.25998	-.22582	-.18919	-.12999
2.000	-1.648	-.06937	-.15188	.39567	.06498	-.17495	-.17913	.21437	-.23539	-.18993	-.13527
2.000	-.614	-.06894	-.10251	.39280	.04970	-.17774	-.17947	.17401	-.23921	-.19080	-.14017
2.000	.444	-.07009	-.04159	.39175	.02763	-.17907	-.17987	.14049	-.23834	-.19058	-.14058
2.000	1.484	-.06944	.01061	.38990	.00888	-.18124	-.18143	.11644	-.23650	-.19121	-.14092
2.000	2.528	-.07142	.06533	.38706	-.01223	-.18250	-.18207	.10498	-.23937	-.18938	-.13879
2.000	4.620	-.07094	.18081	.38512	-.05197	-.17576	-.17964	.10919	-.23555	-.19034	-.14285
2.000	6.708	-.07219	.30403	.38727	-.11179	-.17523	-.18034	.09268	-.23814	-.18957	-.14264
2.000	8.811	-.06937	.43359	.38585	-.15933	-.17251	-.17390	.09223	-.23880	-.19109	-.13900
2.000	10.998	-.07099	.55375	.38387	-.19492	-.16539	-.16921	.05823	-.23999	-.18795	-.14480
	GRADIENT	-.00012	.05333	-.00180	-.01951	-.00093	-.00008	-.01958	-.00106	-.00009	-.00133

UPWT 1088/1119 (TA-44) CONFIGURATION CR/74/57

(XH8016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = -4.000 RUDDER = .000
 SPOBRK = .000 BDFLAP = .000

RUN NO. O/D RM/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
2.500	-10.911	-.01729	-.66258	.37955	.25599	-.14104	-.14318	-.13940	-.19658	-.15952	.18186
2.500	-8.899	-.01814	-.52714	.36960	.20199	-.13979	-.14279	-.13678	-.18621	-.16191	.15210
2.500	-6.722	-.01614	-.40883	.35999	.15367	-.13550	-.14173	-.13460	-.18475	-.15695	.12916
2.500	-4.639	-.01775	-.28995	.35489	.10936	-.13701	-.14212	-.13648	-.18365	-.15473	.10041
2.500	-2.547	-.01690	-.18586	.35236	.07614	-.14076	-.14476	-.13987	-.18441	-.15550	.09320
2.500	-1.516	-.01773	-.13648	.35156	.06197	-.14078	-.14477	-.13998	-.18331	-.15477	.09689
2.500	-.484	-.01742	-.09671	.34933	.05305	-.14377	-.14665	-.14362	-.18479	-.15627	.08455
2.500	.533	-.01806	-.04922	.34793	.04003	-.14489	-.14665	-.14438	-.18332	-.15628	.07673
2.500	1.590	-.01843	-.00435	.34478	.02748	-.14672	-.14774	-.14583	-.18293	-.15949	.05450
2.500	3.654	-.01960	.08919	.34023	-.00517	-.14971	-.15000	-.14920	-.18146	-.15552	.04727
2.500	5.730	-.01957	.19636	.33740	-.04634	-.14788	-.14780	-.14663	-.17963	-.15183	.05618
2.500	7.825	-.02018	.31773	.33797	-.09452	-.15011	-.14929	-.15035	-.17815	-.14848	.05395
2.500	9.902	-.01923	.43175	.33190	-.13766	-.15160	-.14854	-.15035	-.17741	-.14811	.05283
GRADIENT		-.00025	.04525	-.00178	-.01332	-.00154	-.00091	-.00155	.00027	-.00024	-.00732

RUN NO. O/D RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFET
2.860	-10.612	-.01913	-.61887	.35838	.24032	-.11438	-.11393	-.11222	-.14189	-.12164	.22617
2.860	-8.539	-.01846	-.50902	.34951	.19934	-.11356	-.11311	-.11140	-.14311	-.12452	.17861
2.860	-6.461	-.01839	-.39548	.34055	.15900	-.11397	-.11434	-.11191	-.14393	-.12452	.14622
2.860	-4.367	-.01809	-.28575	.33109	.12251	-.11692	-.11884	-.11467	-.14474	-.12615	.11555
2.860	-2.316	-.01974	-.18456	.32398	.08923	-.11726	-.11927	-.11551	-.14353	-.12534	.09945
2.860	-1.276	-.01959	-.14134	.32133	.07618	-.11848	-.12132	-.11797	-.14434	-.12575	.09580
2.860	-.256	-.01939	-.09781	.31952	.06377	-.11888	-.12172	-.11878	-.14433	-.12574	.09885
2.860	.797	-.02036	-.05068	.31725	.04949	-.11933	-.12135	-.11923	-.14273	-.12496	.07678
2.860	1.823	-.02046	-.00877	.31467	.03522	-.12094	-.12173	-.12044	-.14189	-.12575	.06872
2.860	3.873	-.02117	.07831	.31043	.00311	-.12300	-.12379	-.12209	-.14149	-.12453	.06048
2.860	5.946	-.02186	.17842	.30712	-.03544	-.12257	-.12296	-.12084	-.13782	-.11919	.07653
2.860	8.001	-.02206	.29092	.30306	-.07558	-.12381	-.12420	-.12290	-.13741	-.11755	.06952
2.860	10.088	-.02100	.39705	.29903	-.12023	-.12257	-.12296	-.12125	-.13578	-.11631	.05809
GRADIENT		-.00034	.04393	-.00243	-.01414	-.00076	-.00057	-.00094	.00041	.00015	-.00695

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57

(X48016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RJ = -4.000 FL0DER = .000
 SPDSRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR9	CFJ45	CFTC	CFSR8	CFSR8N	CFET
3.900	-10.517	-.01901	-.49474	.30872	.18595	-.05723	-.05240	-.05500	-.07871	-.05335	.27468
3.900	-8.481	-.01907	-.41997	.29828	.16357	-.05991	-.05454	-.05661	-.07978	-.05604	.21816
3.900	-6.437	-.01997	-.34315	.28659	.14207	-.06045	-.05616	-.05769	-.07924	-.05712	.17448
3.900	-4.380	-.02020	-.26255	.27538	.11679	-.06208	-.05779	-.05931	-.07924	-.05929	.16255
3.900	-2.346	-.02048	-.18529	.26706	.09302	-.06207	-.05833	-.05985	-.07871	-.06037	.11350
3.900	-1.319	-.02059	-.11602	.26389	.08070	-.06261	-.05997	-.05985	-.07763	-.06036	.10058
3.900	-.300	-.02132	-.06657	.26107	.06896	-.06261	-.05941	-.05985	-.07656	-.06091	.09516
3.900	.720	-.02075	-.07039	.25733	.05789	-.06423	-.06100	-.06147	-.07710	-.06199	.09893
3.900	1.744	-.02134	-.02952	.25542	.04482	-.06422	-.06103	-.06147	-.07495	-.06144	.10166
3.900	3.778	-.02146	.04264	.25084	.02124	-.06594	-.06211	-.06255	-.07495	-.06036	.09896
3.900	5.819	-.02223	.12553	.24688	-.00765	-.06584	-.06211	-.06255	-.07281	-.05874	.12431
3.900	7.866	-.02268	.21148	.24237	-.03998	-.06477	-.06157	-.06201	-.07174	-.05713	.09569
3.900	9.906	-.02229	.29786	.23835	-.07037	-.06423	-.06157	-.06147	-.07013	-.05713	.09419
	GRADIENT	-.00016	.03752	-.00299	-.01170	-.00009	-.00058	-.00042	.00059	-.00019	-.00653

RUN NO. 0/ 0 RW/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR9	CFJ45	CFTC	CFSR8	CFSR8N	CFET
4.600	-9.895	-.01980	-.46051	.29824	.17230	-.03358	-.02810	-.03005	-.05350	-.02863	.25520
4.600	-7.857	-.01951	-.38899	.28491	.15281	-.03494	-.02977	-.03072	-.05349	-.02999	.18482
4.600	-5.825	-.01910	-.31724	.27203	.13274	-.03565	-.02948	-.03143	-.05350	-.03071	.20817
4.600	-3.793	-.01904	-.24699	.25958	.11190	-.03771	-.03154	-.03418	-.05486	-.03276	.18205
4.600	-1.760	-.01972	-.17442	.24869	.08986	-.03772	-.03225	-.03489	-.05350	-.03348	.11956
4.600	-.747	-.02043	-.10233	.24448	.07393	-.03942	-.03157	-.03421	-.05281	-.03349	.11822
4.600	.272	-.02069	-.09409	.24110	.06465	-.03842	-.03157	-.03352	-.05144	-.03279	.12306
4.600	1.279	-.02108	-.05574	.23757	.05370	-.03777	-.03093	-.03267	-.05009	-.03215	.11937
4.600	2.304	-.02073	-.01970	.23427	.04269	-.03982	-.03366	-.03560	-.05076	-.03419	.12300
4.600	4.336	-.02076	.04831	.22904	.02225	-.03981	-.03434	-.03529	-.05075	-.03279	.14311
4.600	6.355	-.02101	.12213	.22304	-.00329	-.04049	-.03502	-.03628	-.05006	-.03348	.09615
4.600	8.388	-.02091	.19579	.21623	-.03018	-.04119	-.03573	-.03767	-.05007	-.03418	.05946
4.600	10.421	-.02134	.28347	.21214	-.06324	-.03992	-.03505	-.03631	-.04902	-.03420	.04211
	GRADIENT	-.00022	.03673	-.00370	-.01111	-.00028	-.00031	-.00020	.00058	-.00000	-.00346

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(XHB017) (03 JUN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHRF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RO = .000 RUDDER = .000
 SFDRK = .000 BDFLAF = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFDRB	CFDRS	CFTC	CFSRB	CFSRBN	CFET
1.600	-10.635	-.06497	-.77539	.46309	.29982	-.22388	-.24372	-.22242	-.32820	-.29077	-.26149
1.600	-8.537	-.06420	-.60603	.46148	.22848	-.22505	-.24317	-.22337	-.32690	-.28721	-.25577
1.600	-6.420	-.06695	-.44590	.45590	.16595	-.22156	-.23459	-.21927	-.32115	-.27787	-.24976
1.600	-4.621	-.06534	-.32116	.45140	.11999	-.21638	-.22522	-.21401	-.31444	-.27207	-.24854
1.600	-2.222	-.06314	-.17056	.44832	.06414	-.22024	-.22206	-.21909	-.31764	-.26707	-.25361
1.600	-1.171	-.06469	-.10405	.44760	.03976	-.22082	-.22050	-.21936	-.31853	-.26543	-.25602
1.600	-.106	-.06440	-.03364	.44638	.01451	-.22243	-.22059	-.21884	-.31981	-.26590	-.25519
1.600	.935	-.06525	.02520	.44539	-.00734	-.22441	-.22167	-.22052	-.32367	-.26669	-.25231
1.600	1.988	-.06605	.08789	.44404	-.03082	-.22359	-.22094	-.21969	-.32282	-.26646	-.24791
1.600	4.087	-.06376	.20892	.43871	-.08196	-.21389	-.21147	-.20939	-.33442	-.27715	-.23045
1.600	6.171	-.06565	.32550	.43772	-.12710	-.20931	-.20865	-.20513	-.33655	-.27593	-.22618
1.600	8.278	-.06447	.44990	.43843	-.17079	-.21208	-.21265	-.20729	-.33505	-.27535	-.22499
1.600	10.460	-.06277	.57514	.43564	-.20939	-.21455	-.21543	-.20975	-.34055	-.28116	-.22654
	GRADIENT	.00000	.05102	-.00135	-.02304	-.00003	.00124	.00033	-.00209	-.00039	.00188

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFDRB	CFDRS	CFTC	CFSRB	CFSRBN	CFET
2.000	-10.025	-.06582	-.70268	.42042	.27292	-.17282	-.18454	-.17584	-.25302	-.22659	-.19276
2.000	-7.951	-.06739	-.55285	.41410	.21053	-.17029	-.18191	-.17114	-.24814	-.22953	-.18948
2.000	-5.841	-.06536	-.40569	.40662	.15167	-.17187	-.18197	-.17364	-.23897	-.21519	-.19198
2.000	-4.054	-.06546	-.29920	.40256	.11216	-.17011	-.17813	-.17220	-.23663	-.20177	-.19041
2.000	-1.665	-.06607	-.16227	.39945	.06562	-.17204	-.17636	-.17321	-.24317	-.19906	-.18615
2.000	-.620	-.06666	-.10875	.39712	.04756	-.17294	-.17570	-.17411	-.24335	-.20022	-.18394
2.000	.429	-.06646	-.05263	.39468	.02962	-.17634	-.17726	-.17750	-.24428	-.20363	-.17932
2.000	1.474	-.06770	.00136	.39276	.00938	-.17861	-.17882	-.17978	-.24478	-.20192	-.17543
2.000	2.524	-.06693	.06222	.39059	-.01348	-.17918	-.17918	-.17973	-.24382	-.20002	-.16950
2.000	4.605	-.06612	.17407	.38793	-.06103	-.17593	-.17644	-.17545	-.24230	-.20438	-.17510
2.000	6.599	-.06654	.29046	.38029	-.11262	-.17831	-.17676	-.17732	-.24293	-.20223	-.17357
2.000	8.797	-.06561	.42734	.38869	-.15909	-.17616	-.17244	-.17610	-.24602	-.20379	-.16957
2.000	10.996	-.06545	.55237	.38508	-.19579	-.16879	-.16999	-.16912	-.24951	-.19764	-.16836
	GRADIENT	-.00012	.05438	-.00178	-.01970	-.00096	-.00003	-.00071	-.00059	-.00030	.00229

UPWT 1989/1119 (IA-44) CONFIGURATION 22/T4/S7

(XHD017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SPDRRY = .000 BDFLAF = .000

RUN NO. 0/ 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFMRB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.500	-10.922	-.01424	-.66800	.37934	.25949	-.13661	-.14112	-.13659	-.18753	-.16120	.14153
2.500	-0.812	-.01501	-.53174	.36898	.20474	-.13556	-.13918	-.13278	-.18490	-.16114	.11983
2.500	-6.728	-.01394	-.41365	.35938	.15671	-.13481	-.13918	-.13092	-.19379	-.15554	.09931
2.500	-4.639	-.01439	-.29119	.35565	.11080	-.13484	-.13920	-.13206	-.19158	-.15221	.08206
2.500	-2.564	-.01525	-.19254	.35235	.07982	-.13935	-.14335	-.13696	-.18345	-.15560	.07558
2.500	-1.523	-.01708	-.14099	.35203	.06492	-.13934	-.14297	-.13695	-.19307	-.15447	.08531
2.500	-.487	-.01812	-.09339	.35042	.05354	-.14050	-.14412	-.13855	-.18272	-.15338	.07922
2.500	.551	-.01741	-.05140	.34855	.04273	-.14161	-.14375	-.13997	-.18198	-.15301	.06357
2.500	1.593	-.01799	-.00863	.34446	.03036	-.14386	-.14525	-.14222	-.18236	-.15563	.05048
2.500	3.655	-.01993	.09698	.34011	-.00396	-.14767	-.14757	-.14529	-.18056	-.15384	.04239
2.500	5.736	-.02071	.19335	.33797	-.04482	-.14534	-.14501	-.14295	-.17902	-.15040	.05165
2.500	7.821	-.02320	.31263	.33785	-.09254	-.14905	-.14711	-.14743	-.17717	-.14592	.04681
2.500	9.911	-.02350	.43287	.33336	-.13847	-.14839	-.14495	-.14602	-.17611	-.14601	.04802
	GRADIENT	-.00064	.04522	-.00187	-.01333	-.00144	-.00097	-.00153	.00017	-.00012	-.00529

RUN NO. 0/ 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFMRB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.613	-.01379	-.62557	.35844	.24317	-.11175	-.11047	-.10977	-.14254	-.12229	.20578
2.860	-8.545	-.01523	-.51821	.34920	.20334	-.11302	-.11215	-.11003	-.14460	-.12519	.16132
2.860	-6.454	-.01655	-.39975	.34207	.16174	-.11220	-.11215	-.10921	-.14338	-.12396	.12977
2.860	-4.382	-.01646	-.29338	.33142	.12600	-.11597	-.11799	-.11300	-.14627	-.12690	.10150
2.860	-2.306	-.01883	-.18778	.32442	.09071	-.11596	-.11796	-.11299	-.14423	-.12361	.08766
2.860	-1.276	-.01897	-.14341	.32194	.07759	-.11757	-.12040	-.11460	-.14503	-.12400	.08694
2.860	-.244	-.01975	-.10125	.32029	.06566	-.11797	-.12080	-.11592	-.14462	-.12359	.08411
2.860	.769	-.02033	-.05672	.31712	.05185	-.11799	-.11958	-.11524	-.14259	-.12319	.07301
2.860	1.820	-.02150	-.01125	.31497	.03611	-.11882	-.12001	-.11667	-.14220	-.12320	.06639
2.860	3.867	-.02163	.07212	.30994	.00568	-.12167	-.12246	-.11952	-.14178	-.12319	.05793
2.860	5.939	-.02358	.17561	.30734	-.03443	-.12043	-.12121	-.11746	-.13911	-.11744	.07264
2.860	8.012	-.02456	.28387	.30411	-.07746	-.12166	-.12204	-.11952	-.13608	-.11418	.06523
2.860	10.085	-.02387	.39372	.30034	-.11893	-.12207	-.12122	-.11911	-.13569	-.11592	.05540
	GRADIENT	-.00063	.04391	-.00253	-.01423	-.00067	-.00049	-.00081	.00056	.00038	-.00541

ORIGINAL PAGE IS OF POOR QUALITY

UNIT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(XHS017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 UREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SPOBRK = .000 SDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
3.900	-10.520	-.01643	-.50166	.30884	.18748	-.05867	-.05439	-.05429	-.08119	-.05426	-.25646
3.900	-8.485	-.01721	-.42431	.29949	.16445	-.06132	-.05703	-.05748	-.08171	-.05799	-.20571
3.900	-6.439	-.01821	-.34936	.29601	.14357	-.06239	-.05756	-.05854	-.08224	-.05905	-.16219
3.900	-4.392	-.01925	-.26254	.27592	.11568	-.06184	-.05702	-.05682	-.08063	-.05905	-.14978
3.900	-2.355	-.02051	-.18540	.26815	.09188	-.06292	-.05810	-.05800	-.07956	-.06067	-.10774
3.900	-1.330	-.02049	-.15085	.26468	.08194	-.06238	-.05809	-.05854	-.07849	-.06013	-.09644
3.900	-.311	-.02008	-.11314	.26099	.07016	-.06015	-.06133	-.05123	-.08063	-.06282	-.08729
3.900	.714	-.02172	-.06902	.25905	.05624	-.06346	-.05971	-.05908	-.07698	-.06121	-.08427
3.900	1.737	-.02085	-.03759	.25590	.04747	-.06615	-.06241	-.06177	-.07902	-.06228	-.09377
3.900	3.777	-.02233	.04089	.25252	.02162	-.06561	-.06187	-.06123	-.07527	-.06013	-.09320
3.900	5.817	-.02256	.11743	.24735	-.00465	-.06722	-.06349	-.06231	-.07527	-.05958	-.12343
3.900	7.859	-.02337	.20539	.24282	-.03682	-.06582	-.06242	-.06232	-.07367	-.05799	-.08938
3.900	9.899	-.02349	.29115	.23910	-.06849	-.06569	-.06349	-.06232	-.07367	-.05959	-.04899
	GRADIENT	-.00033	.03709	-.00288	-.01144	-.00053	-.00069	-.00059	.00056	-.00020	-.00597

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
4.600	-9.884	-.01690	-.46486	.30051	.17431	-.03407	-.02860	-.02779	-.05463	-.02844	-.23722
4.600	-7.970	-.01782	-.38913	.29792	.15280	-.03341	-.02795	-.02713	-.05327	-.02849	-.19148
4.600	-5.927	-.01789	-.32227	.27452	.13469	-.03614	-.02998	-.03055	-.05600	-.03120	-.19517
4.600	-3.795	-.01909	-.24796	.26280	.11266	-.03583	-.02998	-.03055	-.05531	-.03120	-.17105
4.600	-1.774	-.01948	-.18014	.25107	.09165	-.03898	-.03204	-.03261	-.05599	-.03326	-.11183
4.600	-.752	-.01997	-.14418	.24577	.08095	-.04094	-.03410	-.03467	-.05736	-.03532	-.10775
4.600	.275	-.01968	-.10601	.24231	.06971	-.04094	-.03410	-.03397	-.05530	-.03532	-.11534
4.600	1.285	-.02092	-.05973	.24004	.05545	-.03959	-.03276	-.03263	-.05326	-.03397	-.11516
4.600	2.301	-.02034	-.02987	.23598	.04706	-.04164	-.03480	-.03469	-.05462	-.03533	-.11804
4.600	4.327	-.02072	.03792	.23065	.02632	-.04234	-.03557	-.03539	-.05394	-.03465	-.14141
4.600	6.359	-.02150	.11742	.22479	-.00214	-.04097	-.03482	-.03470	-.05189	-.03397	-.09243
4.600	8.384	-.02137	.18901	.21831	-.02764	-.04302	-.03688	-.03675	-.05394	-.03602	-.06298
4.600	10.412	-.02224	.27441	.21380	-.05979	-.04099	-.03484	-.03402	-.04994	-.03399	-.03934
	GRADIENT	-.00024	.03582	-.00386	-.01078	-.00061	-.00062	-.00050	.00029	-.00039	-.00231

UPWT 1088/1119 (IA-44) CONFIGURATION T4

(XHS018) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000

		RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CA	CLM	CPSRB	CPSMS	CPTC	CPSRB	CPSRBN	CFET
2.860	-10.116	-.00105	-.17121	.14097	.02272	-.11081	-.12425	-.15598	-.09008	-.09797	-.15722
2.860	-8.098	-.00049	-.13462	.13771	.01643	-.11720	-.13251	-.15077	-.09978	-.09691	-.15276
2.860	-6.072	-.00029	-.10007	.13482	.01277	-.11646	-.13177	-.14181	-.08423	-.09058	-.14754
2.860	-4.051	.00005	-.07003	.13230	.01102	-.11271	-.12764	-.13806	-.05899	-.07224	-.14678
2.860	-2.027	.00012	-.03737	.13169	.00996	-.10417	-.12132	-.13658	-.05718	-.05911	-.14232
2.860	-1.019	.00068	-.02866	.13042	.01159	-.10390	-.12207	-.13659	-.05692	-.05700	-.14195
2.860	.004	-.00064	-.00972	.13138	.01114	-.09595	-.11459	-.13546	-.05644	-.05661	-.13971
2.860	1.026	.00026	.00009	.12968	.01239	-.09995	-.11824	-.13241	-.06035	-.06055	-.14115
2.860	2.026	.00039	.01217	.12908	.01305	-.09944	-.11711	-.13427	-.06254	-.06239	-.14039
2.860	4.045	.00042	.04041	.12793	.01428	-.10375	-.12202	-.13318	-.06969	-.07183	-.14079
2.860	6.070	.00058	.07297	.12750	.01296	-.10631	-.12349	-.13541	-.09783	-.09571	-.14489
2.860	8.096	.00096	.10482	.12733	.01161	-.11947	-.13441	-.14070	-.09614	-.10443	-.14904
2.860	10.128	.00090	.14575	.12873	.00675	-.12615	-.14111	-.14628	-.09905	-.10588	-.15164
	GRADIENT	.00004	.01340	-.00055	.00048	.00121	.00082	.00067	-.00040	-.00025	.00067

		RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CA	CLM	CPSRB	CPSMS	CPTC	CPSRB	CPSRBN	CFET
4.600	-9.478	-.00143	-.13390	.10915	.01087	-.09442	-.09400	-.10707	-.07446	-.08812	-.10906
4.600	-7.469	-.00134	-.10497	.10696	.00792	-.10007	-.09841	-.10960	-.07695	-.08750	-.11096
4.600	-5.454	-.00094	-.07771	.10436	.00643	-.10258	-.10029	-.11023	-.07882	-.08625	-.11159
4.600	-3.441	-.00091	-.04666	.10267	.00416	-.10447	-.10218	-.11024	-.07883	-.08437	-.11160
4.600	-1.435	-.00059	-.02107	.10061	.00433	-.10393	-.10343	-.10897	-.07633	-.07747	-.11096
4.600	-.421	-.00091	-.00683	.10044	.00413	-.10257	-.10216	-.10708	-.07446	-.07621	-.10970
4.600	.577	-.00034	.00162	.09820	.00507	-.10321	-.10344	-.10710	-.07571	-.07810	-.11035
4.600	1.596	-.00069	.01951	.09757	.00325	-.10194	-.10216	-.10520	-.07508	-.07934	-.10945
4.600	2.603	-.00015	.02608	.09598	.00466	-.10320	-.10343	-.10709	-.07945	-.08374	-.10971
4.600	4.608	-.00009	.05165	.09595	.00486	-.10320	-.10343	-.10646	-.08131	-.08562	-.10846
4.600	6.619	-.00006	.08083	.09623	.00308	-.10509	-.10406	-.10647	-.08194	-.08437	-.10847
	GRADIENT	.00010	.01215	-.00092	.00006	.00017	-.00012	.00049	-.00040	-.00049	.00039

UPWT 1088/1119 (IA-44) CONFIGURATION T4

(X48019) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CPQRS	CPQRS	CPTRC	CPQRS	CPQRSN	CPET
2.860	-10.133	-.00002	-.01977	.13289	.01321	-.11531	-.12875	-.15300	-.09791	-.10286	-.15833
2.860	-8.118	-.00128	-.01577	.13228	.01241	-.11199	-.12757	-.14929	-.09203	-.09307	-.15500
2.860	-6.082	-.00256	-.01393	.13148	.01186	-.10978	-.12759	-.14182	-.09094	-.08278	-.14904
2.860	-4.052	-.00382	-.01331	.13045	.01147	-.10525	-.12429	-.13545	-.08926	-.06590	-.14380
2.860	-2.010	-.00507	-.01376	.12999	.01194	-.09657	-.11120	-.13059	-.05527	-.05357	-.14043
2.860	.001	-.01191	-.01314	.13062	.01178	-.09741	-.11530	-.13518	-.05711	-.05728	-.14080
2.860	2.013	-.01190	-.01149	.13074	.01092	-.09109	-.10252	-.13293	-.05417	-.05592	-.14044
2.860	4.045	-.01403	-.01202	.13106	.01091	-.10541	-.12207	-.13771	-.05905	-.06335	-.14307
2.860	6.094	-.01172	-.01144	.13212	.01032	-.09221	-.09926	-.14180	-.07309	-.08197	-.15014
2.860	8.124	-.01023	-.01077	.13241	.01011	-.10305	-.11459	-.14816	-.08239	-.09171	-.15575
2.860	10.241	-.00123	-.01127	.13131	.00934	-.11499	-.13738	-.15553	-.08943	-.09917	-.16060
	GRADIENT	-.00051	.00024	.00010	-.00012	.00016	.00054	-.00033	.00097	.00014	.00007

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CN	CA	CLM	CPQRS	CPQRS	CPTRC	CPQRS	CPQRSN	CPET
4.600	-10.066	.58030	.00226	.10184	.00370	-.10695	-.10593	-.11022	-.08754	-.09189	-.11033
4.600	-8.067	.57594	.00283	.10087	.00333	-.10696	-.10594	-.11086	-.08754	-.09189	-.11222
4.600	-6.063	.57291	.00160	.10030	.00408	-.10697	-.10659	-.11087	-.08693	-.09127	-.11150
4.600	-4.011	.57891	.00221	.09993	.00432	-.10508	-.10594	-.10897	-.08256	-.08688	-.11034
4.600	-1.999	.57706	.00290	.09974	.00442	-.10508	-.10594	-.10897	-.08069	-.08374	-.11034
4.600	.000	.57439	-.00032	.09789	.00559	-.10574	-.10723	-.10901	-.07821	-.08124	-.11100
4.600	1.982	.58041	.00404	.09911	.00444	-.10322	-.10470	-.10774	-.07696	-.08124	-.11036
4.600	4.059	.58621	.00462	.09845	.00429	-.10447	-.10459	-.10773	-.07945	-.08553	-.11035
4.600	6.056	.58552	.00511	.09890	.00353	-.10634	-.10532	-.10899	-.07945	-.08751	-.11035
4.600	8.091	.58545	.00746	.09896	.00195	-.10780	-.10595	-.11024	-.07945	-.08939	-.11160
4.600	10.171	.58819	.00999	.09971	.00080	-.10759	-.10584	-.11086	-.07571	-.09001	-.11222
	GRADIENT	.00090	.00030	-.00003	-.00000	.00015	.00019	.00018	.00049	.00024	-.00007

UFWT 1088/1119 (IA-44) CONFIGURATION 02/T4

(XH8020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SREFRK = .000 BDF_LAF = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.500	-10.702	-.00050	-.43382	.28893	.21037	-.18424	-.18247	-.18074	-.17700	-.18273	-.21385
2.500	-8.648	.00201	-.34703	.28314	.17244	-.18651	-.18519	-.18107	-.17970	-.18544	-.21419
2.500	-6.591	.00253	-.26950	.27661	.13776	-.18597	-.18691	-.17974	-.18175	-.18548	-.20977
2.500	-4.535	.00342	-.19845	.27063	.10716	-.18051	-.18554	-.17463	-.17835	-.18240	-.20571
2.500	-2.502	.00302	-.13194	.26526	.07845	-.17611	-.18351	-.17260	-.17769	-.17935	-.20401
2.500	-1.463	.00147	-.09415	.26349	.06208	-.17451	-.17952	-.17270	-.17845	-.17943	-.19864
2.500	-.450	.00238	-.06285	.26129	.04835	-.17578	-.17910	-.17431	-.18142	-.18106	-.19486
2.500	.567	.00403	-.03651	.25795	.03704	-.17712	-.17943	-.17599	-.18241	-.18274	-.18315
2.500	1.601	.00304	.00016	.25693	.02159	-.17812	-.18076	-.17698	-.18340	-.18408	-.18076
2.500	3.649	.00273	.07323	.25246	-.01102	-.17891	-.18145	-.17632	-.18071	-.18307	-.18455
2.500	5.697	.00423	.13501	.24790	-.03834	-.17915	-.17908	-.17802	-.18207	-.18545	-.18399
2.500	7.739	.00214	.20545	.24573	-.06866	-.17547	-.17369	-.17399	-.17908	-.18345	-.18063
2.500	9.794	.00082	.27514	.24226	-.09610	-.17275	-.17131	-.17128	-.17436	-.18210	-.17452
	GRADIENT	-.00000	.03278	-.00221	-.01423	.00000	.00051	-.00044	-.00056	-.00036	.00271

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.448	-.00103	-.41768	.27748	.19733	-.15504	-.15353	-.15199	-.14582	-.15305	-.17712
2.860	-8.400	-.00005	-.34124	.27217	.16659	-.15834	-.15870	-.15679	-.15019	-.15822	-.17937
2.860	-6.347	.00026	-.26693	.26459	.13673	-.15694	-.15945	-.15379	-.15093	-.15747	-.18087
2.860	-4.296	-.00032	-.20097	.25652	.10946	-.15535	-.15983	-.15192	-.14722	-.15599	-.18087
2.860	-2.259	-.00059	-.13434	.24979	.08127	-.15386	-.15871	-.15192	-.14537	-.15561	-.17676
2.860	-1.243	-.00059	-.10414	.24694	.06871	-.15460	-.15833	-.15267	-.14695	-.15635	-.17554
2.860	-.231	.00014	-.07731	.24392	.05769	-.15723	-.16059	-.15567	-.15059	-.15935	-.17377
2.860	.791	.00007	-.04597	.24161	.04477	-.15873	-.16208	-.15792	-.15355	-.16160	-.15929
2.860	1.821	.00009	-.01349	.23952	.03181	-.16134	-.16470	-.15980	-.15541	-.16394	-.16630
2.860	3.853	-.00033	.04901	.23486	.00562	-.16433	-.16657	-.16241	-.15578	-.16459	-.16033
2.860	5.901	-.00050	.11590	.23070	-.02307	-.16470	-.16545	-.16241	-.15594	-.16571	-.15559
2.860	7.939	-.00112	.18113	.22784	-.05048	-.16209	-.16321	-.16092	-.15393	-.16609	-.15510
2.860	9.982	-.00151	.24773	.22504	-.07771	-.15995	-.15994	-.15755	-.14698	-.16235	-.15062
	GRADIENT	.00005	.03038	-.00264	-.01258	-.00129	-.00100	-.00147	-.00143	-.00131	.00256

UPWT 1088/1119 (1A-44) CONFIGURATION 02/74

(XHS020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUDDER = .000
 SPDRK = .000 SPFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPCRB	CPCMS	CPTC	CPSRB	CPSRB4	CFET
3.900	-15.429	-.00232	-.33276	.23869	.13742	-.11867	-.11332	-.11473	-.10817	-.11858	-.12523
3.900	-8.399	-.00219	-.27971	.23341	.12047	-.11968	-.11433	-.11574	-.11014	-.11959	-.12525
3.900	-6.377	-.00228	-.22481	.22646	.10266	-.11967	-.11432	-.11622	-.11161	-.11859	-.12525
3.900	-4.348	-.00201	-.17351	.21500	.08313	-.12060	-.11625	-.11716	-.11157	-.11904	-.12715
3.900	-2.319	-.00246	-.12131	.20591	.06447	-.12059	-.11673	-.11715	-.11059	-.11903	-.12763
3.900	-1.301	-.00335	-.09191	.20280	.05397	-.11963	-.11576	-.11619	-.10963	-.11806	-.12667
3.900	-.295	-.00246	-.06997	.19917	.04590	-.11962	-.11625	-.11716	-.11060	-.11854	-.12666
3.900	.721	-.00252	-.04500	.19579	.03760	-.12109	-.11723	-.11766	-.11060	-.11953	-.12617
3.900	1.741	-.00288	-.01994	.19112	.02975	-.12206	-.11820	-.11862	-.11156	-.12099	-.12467
3.900	3.760	-.00248	.02673	.19056	.01303	-.12500	-.12115	-.12010	-.11547	-.12394	-.12369
3.900	5.789	-.00250	.07937	.18537	-.00743	-.12530	-.12116	-.12158	-.11303	-.12444	-.12272
3.900	7.816	-.00160	.13259	.18173	-.02894	-.12599	-.12166	-.12257	-.11010	-.12542	-.12026
3.900	9.845	-.00230	.19629	.18101	-.05395	-.12452	-.12067	-.12060	-.10522	-.12345	-.11633
	GRADIENT	-.00004	.02468	-.00284	-.00060	-.00052	-.00056	-.00038	-.00043	-.00059	.00048

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPCRB	CPCMS	CPTC	CPSRB	CPSRB4	CFET
4.600	-9.827	-.00031	-.32280	.23715	.13687	-.10978	-.10512	-.10728	-.10381	-.11282	-.11501
4.600	-7.816	-.00029	-.27847	.23008	.12443	-.11427	-.10971	-.10925	-.10763	-.11606	-.11763
4.600	-5.794	-.00092	-.21804	.22041	.10312	-.11296	-.10804	-.10958	-.10759	-.11349	-.11569
4.600	-3.767	-.00054	-.17426	.20526	.08699	-.11551	-.10933	-.11050	-.10925	-.11416	-.11761
4.600	-1.752	-.00033	-.12686	.19337	.06978	-.11614	-.11059	-.11176	-.10897	-.11541	-.11824
4.600	-.735	-.00097	-.08290	.19050	.05657	-.11485	-.10931	-.11048	-.10697	-.11413	-.11695
4.600	.265	-.00041	-.07440	.18580	.05132	-.11742	-.11188	-.11242	-.10889	-.11670	-.11827
4.600	1.279	-.00089	-.05194	.18256	.04457	-.11740	-.11248	-.11302	-.10950	-.11667	-.11824
4.600	2.294	-.00100	-.02941	.17997	.03849	-.11546	-.10991	-.11171	-.10820	-.11410	-.11693
4.600	4.307	-.00061	.01346	.17452	.02520	-.11739	-.11184	-.11238	-.10948	-.11666	-.11634
4.600	6.327	.00003	.05975	.16914	.00788	-.11927	-.11310	-.11490	-.10886	-.11855	-.11571
4.600	8.349	-.00016	.10910	.16525	-.01052	-.11868	-.11251	-.11431	-.10326	-.11733	-.11323
4.600	10.372	-.00026	.16752	.16325	-.03366	-.11800	-.11183	-.11299	-.09985	-.11665	-.11067
	GRADIENT	-.00004	.02327	-.00381	-.00754	-.00020	-.00028	-.00023	-.00014	-.00023	.00015

UPWT 1098/1119 (IA-44) CONFIGURATION CB/T4

(XH0021) (03 JAN 75)

REFERENCE DATA

SREF = 2699.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1299.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1299.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRBK = .000 SDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
2.860	-10.306	-.22371	-.06149	.24984	.03929	-.18000	-.17367	-.17661	-.16172	-.18103	-.16705
2.860	-8.256	-.23269	-.06659	.24765	.04486	-.17925	-.17480	-.17587	-.15320	-.18065	-.16892
2.860	-6.193	-.22265	-.07015	.24707	.04893	-.17515	-.17405	-.17298	-.15839	-.17767	-.16854
2.860	-4.111	-.22249	-.07386	.24499	.05376	-.17067	-.17405	-.16839	-.16173	-.17291	-.16992
2.860	-2.020	-.21991	-.07592	.24441	.05702	-.16657	-.16994	-.16316	-.15616	-.16609	-.16780
2.860	-.019	-.21899	-.07273	.24224	.05463	-.15937	-.16209	-.15532	-.15099	-.16012	-.17004
2.860	2.040	-.21920	-.07432	.24320	.05514	-.15762	-.16022	-.15457	-.15060	-.15862	-.17004
2.860	4.119	-.21625	-.07052	.24426	.05101	-.16135	-.16059	-.15793	-.14985	-.16273	-.17004
2.860	6.197	-.22010	-.06947	.24437	.04928	-.16509	-.16594	-.16056	-.14432	-.16572	-.17190
2.860	8.262	-.22176	-.06578	.24582	.04524	-.16891	-.16994	-.16579	-.14024	-.16971	-.17563
2.860	10.372	-.22691	-.06066	.24639	.04042	-.17366	-.17368	-.16989	-.13689	-.17244	-.17936
GRADIENT		.00064	.00040	-.00013	-.00036	.00134	.00178	.00143	.00143	.00134	-.00022

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFORB	CFOMS	CFTC	CFSRB	CFSRBN	CFET
3.900	-11.203	-.27891	-.06204	.21358	.03647	-.12842	-.12065	-.12500	-.12033	-.12785	-.11288
3.900	-8.161	-.28431	-.06867	.20893	.04157	-.12992	-.12215	-.12601	-.11840	-.12896	-.11486
3.900	-6.133	-.28993	-.07367	.20528	.04645	-.12994	-.12165	-.12601	-.11547	-.12788	-.11683
3.900	-4.076	-.29584	-.07158	.20445	.04778	-.12600	-.12018	-.12257	-.11450	-.12444	-.11781
3.900	-2.023	-.29223	-.08299	.20117	.05494	-.12549	-.12164	-.12206	-.11595	-.12393	-.12221
3.900	-.020	-.28919	-.07977	.20003	.05387	-.12304	-.12017	-.11961	-.11303	-.12148	-.12321
3.900	2.003	-.29873	-.07839	.20200	.05417	-.12162	-.12022	-.11857	-.11111	-.12005	-.12424
3.900	4.065	-.28562	-.07406	.20433	.05096	-.12162	-.11972	-.11936	-.10817	-.12005	-.12375
3.900	6.123	-.28451	-.06987	.20650	.04739	-.12504	-.12169	-.12112	-.10377	-.12348	-.12472
3.900	8.163	-.29703	-.07005	.20935	.04506	-.12947	-.12413	-.12455	-.10377	-.12790	-.12618
3.900	10.288	-.29442	-.06389	.21217	.04101	-.12845	-.12462	-.12307	-.09986	-.12691	-.12519
GRADIENT		.00019	-.00002	.00003	.00023	.00062	.00011	.00050	.00086	.00062	-.00058

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4

(X8021) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. X
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CFCRB	CFQMS	CFYC	CFSRB	CFSRBN	CPET
4.600	-10.135	.26484	-.05878	.20364	.03798	-.12051	-.11309	-.11551	-.11510	-.11916	-.10627
4.600	-8.139	.26131	-.06464	.19912	.04242	-.11985	-.11306	-.11549	-.11195	-.11913	-.10687
4.600	-5.084	.26816	-.06668	.19447	.04518	-.12051	-.11372	-.11551	-.10822	-.11916	-.11130
4.600	-4.055	.26590	-.07086	.19040	.04891	-.11924	-.11244	-.11550	-.10946	-.11789	-.11254
4.600	-2.012	.25796	-.07548	.18644	.05101	-.11991	-.11437	-.11554	-.11200	-.11856	-.11635
4.600	-.019	.27207	-.07616	.18552	.05208	-.11800	-.11372	-.11425	-.10947	-.11602	-.11570
4.600	2.013	.27309	-.07322	.18687	.05096	-.11737	-.11309	-.11299	-.10985	-.11602	-.11635
4.600	4.045	.27616	-.06870	.19036	.04803	-.11735	-.11244	-.11299	-.10634	-.11537	-.11568
4.600	6.095	.26915	-.06397	.19420	.04620	-.11798	-.11370	-.11361	-.10196	-.11663	-.11568
4.600	8.143	.26794	-.06133	.19755	.04365	-.11861	-.11370	-.11424	-.09697	-.11726	-.11568
4.600	10.236	.26895	-.05682	.20163	.04014	-.11988	-.11435	-.11498	-.08823	-.11853	-.11507
	GRADIENT	.00117	.00052	.00002	-.00009	.00031	.00006	.00037	.00046	.00037	-.00031

WEWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7

(XH8022) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3900 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3900 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAF = .000

RUN NO. 0/ 0 EN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSRBN	CFEI
2.000	-10.004	-.06639	-.68577	.41109	.26728	-.17698	-.18420	-.17172	-.25101	-.23256	-.21163
2.000	-7.928	-.06741	-.53903	.40282	.20702	-.17292	-.18167	-.16736	-.24635	-.23376	-.20572
2.000	-5.833	-.06685	-.39857	.39449	.15196	-.17033	-.18031	-.16846	-.23609	-.21546	-.20531
2.000	-4.042	-.06759	-.28574	.39253	.11069	-.17064	-.18031	-.17185	-.23733	-.20372	-.20253
2.000	-1.662	-.06631	-.16128	.38902	.06920	-.17128	-.17663	-.17342	-.24321	-.20406	-.20194
2.000	-.604	-.06814	-.10037	.38631	.04850	-.17160	-.17602	-.17374	-.24291	-.20499	-.19917
2.000	.441	-.05793	-.04511	.38477	.03017	-.17316	-.17665	-.17580	-.24631	-.20562	-.19640
2.000	1.477	-.06759	.00428	.38266	.01316	-.17592	-.17912	-.17805	-.24661	-.20715	-.19422
2.000	2.519	-.06738	.05920	.37950	-.00754	-.17694	-.18014	-.17938	-.24513	-.20507	-.19091
2.000	4.605	-.06746	.17279	.37789	-.05717	-.17344	-.17477	-.17496	-.24136	-.20622	-.19545
2.000	6.699	-.06884	.29613	.38016	-.10690	-.17354	-.17796	-.17321	-.24265	-.20475	-.19337
2.000	8.807	-.06857	.42496	.37907	-.15349	-.16829	-.17145	-.16998	-.24418	-.20536	-.18780
2.000	10.993	-.06939	.54971	.37624	-.19027	-.16403	-.16842	-.16432	-.24761	-.20016	-.18662
	GRADIENT	-.00002	.05281	-.00176	-.01908	-.00060	.00028	-.00064	-.00055	-.00032	.00123

SPWT 1088/1119 (TA-44) CONFIGURATION 02/74/57

(X48023) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1200.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1200.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPCBRK = .000 BDFLAP = .000

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CPRB	CPOS	CPTC	CPSRB	CPSRBN	CFET
1.600	-10.468	-.13501	-.04596	.45372	.00886	-.26039	-.27405	-.25773	-.37004	-.34087	-.26900
1.600	-8.447	-.12769	-.04152	.45364	.01052	-.25060	-.25724	-.24551	-.36384	-.33307	-.27264
1.600	-6.337	-.12013	-.04368	.45201	.01359	-.24194	-.24732	-.23686	-.36120	-.31765	-.26882
1.600	-4.236	-.13125	-.04594	.44671	.01749	-.22453	-.23288	-.21643	-.35221	-.29903	-.27024
1.600	-2.143	-.13932	-.05247	.44290	.02354	-.22037	-.22158	-.21865	-.33442	-.27928	-.26488
1.600	-.067	-.12315	-.04728	.44168	.02253	-.21648	-.21900	-.21294	-.31832	-.26441	-.26890
1.600	2.012	-.12561	-.04981	.44065	.02120	-.21869	-.22306	-.22052	-.29707	-.25078	-.25190
1.600	4.168	-.11719	-.04069	.44357	.01605	-.23119	-.23286	-.23007	-.29005	-.23619	-.25223
1.600	6.189	-.12690	-.04176	.44596	.01481	-.24280	-.24482	-.24167	-.26828	-.22037	-.26116
1.600	8.313	-.13211	-.04967	.44709	.01652	-.25560	-.26154	-.25405	-.26482	-.21969	-.27083
1.600	10.477	-.12982	-.05091	.44816	.01509	-.26032	-.26882	-.26282	-.26995	-.22299	-.27810
	GRADIENT	.00200	.00053	-.00040	-.00025	-.00057	-.00010	-.00140	.00867	.00726	.00234

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CPRB	CPOS	CPTC	CPSRB	CPSRBN	CFET
2.000	-10.457	.42320	-.04504	.39277	.02035	-.19923	-.21951	-.19950	-.26062	-.23540	-.20153
2.000	-8.372	.43415	-.04001	.39389	.02055	-.19707	-.21363	-.19887	-.25722	-.23231	-.20306
2.000	-6.305	.43184	-.04240	.39123	.02362	-.19430	-.20655	-.19611	-.25425	-.22744	-.20030
2.000	-4.215	.43547	-.04513	.38919	.02718	-.18379	-.19259	-.18468	-.25918	-.22186	-.20151
2.000	-2.127	.43359	-.05064	.38619	.03239	-.18086	-.18593	-.18299	-.25526	-.21334	-.19956
2.000	-.071	.43827	-.05090	.38441	.03302	-.17316	-.17634	-.17468	-.24600	-.20531	-.19540
2.000	2.022	.43500	-.04766	.38486	.03109	-.17502	-.17914	-.17777	-.23305	-.19545	-.19641
2.000	4.082	.43489	-.04485	.38894	.02694	-.18653	-.19177	-.18911	-.22036	-.18120	-.19544
2.000	6.173	.43884	-.04299	.38850	.02386	-.19699	-.19924	-.19585	-.21114	-.17970	-.19880
2.000	8.238	.44094	-.04492	.38925	.02405	-.20613	-.21130	-.20762	-.19941	-.16457	-.20412
2.000	10.429	.44780	-.04629	.39060	.02438	-.21659	-.22148	-.21552	-.19752	-.15990	-.20594
	GRADIENT	.00001	.00017	-.00010	-.00009	-.00017	.00041	-.00018	.00481	.00478	.00069

UFWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(XH8024) (03 JAN 75)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUOBER = .000
 SPDRK = .000 BDFLAF = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CFIC	CFSRB	CFSRBN	CFET
2.500	-10.921	-.00312	-.66132	.37825	.25748	-.17556	-.17414	-.17376	-.20342	-.20499	-.19704
2.500	-8.818	-.00136	-.52452	.37096	.20310	-.17114	-.17141	-.16933	-.20072	-.20363	-.18922
2.500	-6.733	-.00090	-.40110	.36204	.15553	-.17250	-.17346	-.17070	-.20072	-.19785	-.18413
2.500	-4.641	.00059	-.28375	.35669	.11117	-.17555	-.17652	-.17409	-.20038	-.19343	-.18073
2.500	-2.562	.00187	-.17428	.35385	.07500	-.17790	-.17853	-.17611	-.19969	-.19171	-.17731
2.500	-1.526	.00144	-.12880	.35179	.06307	-.18064	-.18093	-.17987	-.20139	-.19240	-.17630
2.500	-.495	.00210	-.09088	.34872	.05413	-.18302	-.18264	-.18225	-.20207	-.19275	-.17393
2.500	.544	.00184	-.04486	.34714	.04083	-.18358	-.18320	-.18292	-.20037	-.19137	-.17187
2.500	1.587	.00212	-.00308	.34327	.02833	-.18343	-.18169	-.18335	-.19908	-.19145	-.16995
2.500	3.651	.00339	.09471	.34086	-.00729	-.18508	-.18199	-.18432	-.19937	-.18937	-.16921
2.500	5.724	.00172	.20116	.33907	-.04881	-.18373	-.17893	-.18161	-.19770	-.18656	-.16718
2.500	7.809	.00161	.31760	.33839	-.09459	-.19188	-.18709	-.19079	-.19703	-.18224	-.16141
2.500	9.897	.00159	.43229	.33303	-.13859	-.18950	-.19265	-.19772	-.19567	-.18325	-.15597
	GRADIENT	.00028	.04457	-.00205	-.01354	-.00120	-.00070	-.00134	.00024	.00041	.00150

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPDRB	CPDMS	CFIC	CFSRB	CFSRBN	CFET
2.860	-10.618	-.00303	-.61995	.35894	.24469	-.15259	-.14984	-.14954	-.16445	-.17452	-.16912
2.860	-8.533	-.00287	-.49985	.34912	.19963	-.15222	-.15109	-.14955	-.16519	-.17340	-.16539
2.860	-6.462	-.00099	-.38692	.34035	.15631	-.15521	-.15372	-.15292	-.16631	-.16967	-.16166
2.860	-4.387	-.00010	-.28057	.33077	.11877	-.15856	-.15745	-.15656	-.16853	-.16929	-.16091
2.860	-2.315	-.00031	-.18074	.32514	.08724	-.15931	-.15907	-.15852	-.16742	-.16705	-.15494
2.860	-1.282	-.00119	-.13335	.32347	.07295	-.15819	-.15969	-.15915	-.16557	-.16481	-.15158
2.860	-.257	-.00048	-.09527	.32052	.06307	-.15931	-.15970	-.16002	-.16320	-.16444	-.14973
2.860	.775	.00025	-.05500	.31719	.05193	-.16006	-.15970	-.16000	-.16520	-.16258	-.14936
2.860	1.813	-.00030	-.01164	.31385	.03775	-.16006	-.15933	-.15928	-.16335	-.16257	-.14786
2.860	3.864	-.00012	.07844	.31154	.00423	-.16193	-.16120	-.16115	-.16251	-.15922	-.14527
2.860	5.930	-.00119	.18095	.30854	-.03402	-.16091	-.16009	-.15929	-.16002	-.15437	-.14266
2.860	8.000	-.00111	.28195	.30549	-.07300	-.16379	-.16157	-.16301	-.15990	-.15287	-.13481
2.860	10.079	-.00040	.39622	.30051	-.11652	-.16343	-.16009	-.16153	-.15410	-.15055	-.12777
	GRADIENT	.00003	.04277	-.00244	-.01334	-.00039	-.00031	-.00050	.00074	.00119	.00192

UPWT 1088/1119 (IA-44) CONFIGURATION 02/74/57

(XH0024) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 IN. FT. XRRF = 975.0000 IN. XT
 LREF = 1290.3000 INCHES YRRF = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZRRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SFD8R8 = .000 SDFLAF = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSR8N	CFET
3.900	-10.526	-.00152	-.49542	.30910	.18883	-.11448	-.11015	-.11155	-.11370	-.12473	-.11563
3.900	-8.485	-.00186	-.41707	.29976	.16554	-.11596	-.11015	-.11401	-.11556	-.12572	-.11564
3.900	-6.437	-.00180	-.33630	.28825	.14269	-.11743	-.11211	-.11549	-.11653	-.12473	-.11612
3.900	-4.395	-.00159	-.25680	.27716	.11672	-.11792	-.11310	-.11549	-.11654	-.12424	-.11711
3.900	-2.359	-.00109	-.18002	.26998	.09241	-.11940	-.11458	-.11697	-.11811	-.12376	-.11711
3.900	-1.335	-.00123	-.14194	.26719	.09137	-.11940	-.11458	-.11697	-.11782	-.12278	-.11613
3.900	-.320	-.00078	-.11019	.26362	.07249	-.12037	-.11703	-.11794	-.11761	-.12276	-.11514
3.900	.705	-.00076	-.07694	.26021	.06379	-.12037	-.11703	-.11794	-.11663	-.12080	-.11367
3.900	1.728	-.00080	-.04083	.25792	.05323	-.12038	-.11704	-.11795	-.11566	-.11932	-.11416
3.900	3.763	-.00113	.04070	.25378	.02491	-.12136	-.11704	-.11893	-.11468	-.11736	-.11170
3.900	5.806	-.00076	.12341	.24920	-.00498	-.12283	-.11900	-.12090	-.11322	-.11687	-.11023
3.900	7.852	-.00079	.20870	.24470	-.03624	-.12235	-.11852	-.11992	-.10980	-.11539	-.10581
3.900	9.896	-.00009	.29556	.24108	-.06671	-.12087	-.11654	-.11795	-.10833	-.11588	-.10040
	GRADIENT	.00007	.03579	-.00291	-.01081	-.00039	-.00054	-.00039	.00032	.00090	.00070

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CFOR8	CFOMS	CFTC	CFSR8	CFSR8N	CFET
4.600	-9.899	-.00151	-.46685	.30200	.19021	-.10572	-.10145	-.10199	-.10528	-.11444	-.10531
4.600	-7.871	-.00093	-.39569	.29012	.16507	-.10825	-.10273	-.10453	-.10717	-.11572	-.10721
4.600	-5.834	-.00091	-.31842	.27722	.13737	-.10897	-.10272	-.10577	-.10779	-.11571	-.10720
4.600	-3.802	-.00076	-.23963	.26529	.11163	-.11140	-.10589	-.10768	-.10968	-.11636	-.10911
4.600	-1.771	-.00128	-.15977	.25584	.09489	-.11011	-.10397	-.10639	-.10778	-.11381	-.10719
4.600	-.755	-.00083	-.12791	.24971	.07578	-.11140	-.10589	-.10831	-.10906	-.11365	-.10848
4.600	.261	-.00077	-.09700	.24514	.06816	-.11202	-.10651	-.10930	-.11030	-.11383	-.10910
4.600	1.274	-.00028	-.05802	.24042	.05133	-.11393	-.10779	-.11021	-.11094	-.11323	-.10975
4.600	2.284	-.00010	-.03351	.23730	.03059	-.11392	-.10841	-.11020	-.11031	-.11259	-.10974
4.600	4.319	-.00090	.04770	.23341	.02346	-.11326	-.10713	-.10955	-.10994	-.11059	-.10783
4.600	6.351	-.00077	.13054	.22747	-.00673	-.11329	-.10778	-.10957	-.10791	-.10944	-.10597
4.600	8.385	-.00032	.20513	.22192	-.03244	-.11329	-.10777	-.11019	-.10530	-.10944	-.10282
4.600	10.415	-.00047	.29092	.21693	-.06453	-.11201	-.10650	-.10829	-.10529	-.10942	-.09967
	GRADIENT	.00006	.03425	-.00498	-.01022	-.00041	-.00037	-.00040	-.00010	.00060	-.00003

JWT 1038/1113 (IA-44) CONFIGURATION T4/S7 (YH0001) (03 JAN 73)

REFERENCE DATA

XREF = 2500.0000 SQ. FT. XMRP = 376.0000 IN. XT
 YREF = 1200.0000 INCHES YMRP = .0000 IN. YT
 ZREF = 1200.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .009 TANK = 1.000
 STR = 1.000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.222	-.04816	.00000	.00000	.00000	481.13672
1.600	-9.158	-.04730	.00000	.00000	.00000	481.51616
1.600	-8.030	-.04600	.00000	.00000	.00000	481.64264
1.600	-4.340	-.04500	.00000	.00000	.00000	131.43184
1.600	-1.973	-.04507	.00000	.00000	.00000	431.53480
1.600	-.339	-.04529	.00000	.00000	.00000	432.02200
1.600	.038	-.04558	.00000	.00000	.00000	432.35937
1.600	1.126	-.04597	.00000	.00000	.00000	432.19073
1.600	2.159	-.04517	.00000	.00000	.00000	481.81129
1.600	4.226	-.04433	.00000	.00000	.00000	481.60048
1.600	6.310	-.04347	.00000	.00000	.00000	481.68480
1.600	8.390	-.04228	.00000	.00000	.00000	481.75912
1.600	10.558	-.04081	.00000	.00000	.00000	481.68480
	GRADIENT	.00013	.00000	.00000	.00000	.02863

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-9.072	-.06160	.00000	.00000	.00000	474.65578
2.000	-7.637	-.06115	.00000	.00000	.00000	474.72735
2.000	-5.531	-.06074	.00000	.00000	.00000	474.65578
2.000	-3.022	-.06120	.00000	.00000	.00000	474.44197
2.000	-1.170	-.06251	.00000	.00000	.00000	474.62000
2.000	-.445	-.06130	.00000	.00000	.00000	474.65578
2.000	.592	-.06105	.00000	.00000	.00000	474.58421
2.000	1.600	-.06171	.00000	.00000	.00000	474.58421
2.000	2.630	-.06133	.00000	.00000	.00000	474.49529
2.000	4.737	-.06051	.00000	.00000	.00000	474.62000
2.000	6.762	-.06147	.00000	.00000	.00000	474.51264
2.000	8.810	-.06137	.00000	.00000	.00000	474.58421
2.000	11.052	-.06144	.00000	.00000	.00000	474.65573
	GRADIENT	.00000	.00000	.00000	.00000	.00550

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UPWT 1033/1119 (IA-44) CONFIGURATION T4/S7

(FH3001) (03 JAN 75)

REFERENCE DATA

WREF = 2500.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1200.0000 INCHES YMRP = .0000 IN. YT
 BREF = 1200.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 STB = 1.000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CMW	CSW	CTW	Q (PSF)
2.500	-10.503	-.01732	.00000	.00000	.00000	434.14723
2.500	-9.433	-.01717	.00000	.00000	.00000	434.78738
2.500	-8.375	-.01745	.00000	.00000	.00000	434.94102
2.500	-7.323	-.01649	.00000	.00000	.00000	434.50572
2.500	-6.264	-.01673	.00000	.00000	.00000	434.01920
2.500	-5.240	-.01752	.00000	.00000	.00000	434.50572
2.500	-4.233	-.01742	.00000	.00000	.00000	434.17284
2.500	-3.212	-.01750	.00000	.00000	.00000	435.35071
2.500	-2.140	-.01650	.00000	.00000	.00000	435.10707
2.500	-1.047	-.01602	.00000	.00000	.00000	434.71056
2.500	0.049	-.01655	.00000	.00000	.00000	433.76316
2.500	1.107	-.01583	.00000	.00000	.00000	433.94239
2.500	2.175	-.01556	.00000	.00000	.00000	434.45450
	GRADIENT	.00006	.00000	.00000	.00000	.00025

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CMW	CSW	CTW	Q (PSF)
2.350	-10.251	-.01871	.00000	.00000	.00000	395.53363
2.350	-9.200	-.01871	.00000	.00000	.00000	395.53863
2.350	-8.147	-.01800	.00000	.00000	.00000	395.94300
2.350	-7.091	-.01910	.00000	.00000	.00000	395.82747
2.350	-6.043	-.01380	.00000	.00000	.00000	396.03328
2.350	-5.005	-.01345	.00000	.00000	.00000	395.63491
2.350	-3.991	-.01349	.00000	.00000	.00000	395.84572
2.350	-2.919	-.01393	.00000	.00000	.00000	395.76970
2.350	-1.838	-.01302	.00000	.00000	.00000	396.02000
2.350	-0.732	-.01604	.00000	.00000	.00000	395.57714
2.350	0.349	-.01742	.00000	.00000	.00000	395.76970
2.350	1.483	-.01637	.00000	.00000	.00000	395.96226
2.350	2.611	-.01573	.00000	.00000	.00000	395.96226
	GRADIENT	.00023	.00000	.00000	.00000	-.00210

UPWT 1085/1119 (1A-44) CONFIGURATION

T4/S7

(YH8001) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 L4RF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	q (PSF)
3.900	-10.109	-.01967	.00000	.00000	.00000	300.71830
3.900	-8.073	-.01984	.00000	.00000	.00000	300.69424
3.900	-6.046	-.01920	.00000	.00000	.00000	300.60603
3.900	-4.005	-.01952	.00000	.00000	.00000	300.58999
3.900	-1.994	-.01983	.00000	.00000	.00000	300.59901
3.900	-.970	-.01909	.00000	.00000	.00000	300.76642
3.900	.048	-.01957	.00000	.00000	.00000	300.62207
3.900	1.036	-.01880	.00000	.00000	.00000	300.67820
3.900	2.077	-.01864	.00000	.00000	.00000	300.70226
3.900	4.104	-.01904	.00000	.00000	.00000	300.71028
3.900	6.136	-.01910	.00000	.00000	.00000	300.69424
3.900	8.170	-.01984	.00000	.00000	.00000	300.72632
3.900	10.205	-.01854	.00000	.00000	.00000	300.68622
	GRADIENT	.00011	.00000	.00000	.00000	.01412

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	q (PSF)
4.600	-9.544	-.01977	.00000	.00000	.00000	235.62823
4.600	-7.515	-.01954	.00000	.00000	.00000	235.56183
4.600	-5.488	-.01909	.00000	.00000	.00000	235.49544
4.600	-3.464	-.01984	.00000	.00000	.00000	235.69462
4.600	-1.443	-.01951	.00000	.00000	.00000	235.62823
4.600	-.433	-.01929	.00000	.00000	.00000	235.69462
4.600	.573	-.01856	.00000	.00000	.00000	235.62823
4.600	1.587	-.01907	.00000	.00000	.00000	235.69462
4.600	2.601	-.01910	.00000	.00000	.00000	235.69462
4.600	4.616	-.01890	.00000	.00000	.00000	235.56183
4.600	6.646	-.01909	.00000	.00000	.00000	235.76102
4.600	8.664	-.01855	.00000	.00000	.00000	235.49544
4.600	10.699	-.01919	.00000	.00000	.00000	235.76102
	GRADIENT	.00011	.00000	.00000	.00000	-.00939

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OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION

T4/S7

(YH0002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
1.600	-10.228	.09911	.00000	.00000	.00000	481.64264
1.600	-8.204	.09419	.00000	.00000	.00000	481.68480
1.600	-6.162	.09284	.00000	.00000	.00000	481.43184
1.600	-4.128	.09001	.00000	.00000	.00000	481.05239
1.600	-2.044	.08888	.00000	.00000	.00000	481.13672
1.600	-.065	.09267	.00000	.00000	.00000	481.17988
1.600	1.972	.09789	.00000	.00000	.00000	481.13672
1.600	4.029	.08627	.00000	.00000	.00000	481.22104
1.600	6.083	.08563	.00000	.00000	.00000	481.17888
1.600	8.120	.08709	.00000	.00000	.00000	481.15572
1.600	10.265	.09112	.00000	.00000	.00000	481.17888
	GRADIENT	-.00052	.00000	.00000	.00000	.01652

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
2.000	-10.223	.59728	.00000	.00000	.00000	474.62000
2.000	-8.219	.60107	.00000	.00000	.00000	474.62000
2.000	-6.178	.57919	.00000	.00000	.00000	474.54843
2.000	-4.145	.58826	.00000	.00000	.00000	474.54843
2.000	-2.079	.58691	.00000	.00000	.00000	474.76314
2.000	-.091	.57864	.00000	.00000	.00000	474.62000
2.000	1.994	.58457	.00000	.00000	.00000	474.44107
2.000	4.032	.58282	.00000	.00000	.00000	474.51264
2.000	6.087	.58506	.00000	.00000	.00000	474.40529
2.000	8.106	.58533	.00000	.00000	.00000	474.54843
2.000	10.212	.57406	.00000	.00000	.00000	474.58421
	GRADIENT	-.00064	.00000	.00000	.00000	-.01923

VPWT 1088/1119 (IA-44) CONFIGURATION

T4/S7

(YH0002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SQB = 1.000

RUN NO. 0/ 0 R/W/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
2.860	-10.133	-.01397	.00000	.00000	.00000	396.30987
2.860	-8.118	-.01591	.00000	.00000	.00000	396.17408
2.860	-6.100	-.02041	.00000	.00000	.00000	396.03928
2.860	-4.052	-.01338	.00000	.00000	.00000	395.71193
2.860	-2.010	-.01445	.00000	.00000	.00000	395.76970
2.860	-.018	-.01287	.00000	.00000	.00000	396.27036
2.860	2.014	-.01556	.00000	.00000	.00000	396.57845
2.860	4.046	-.01347	.00000	.00000	.00000	396.38589
2.860	6.096	-.01108	.00000	.00000	.00000	396.28961
2.860	8.126	-.01059	.00000	.00000	.00000	396.52058
2.860	10.241	-.01075	.00000	.00000	.00000	396.32812
	GRADIENT	-.00006	.00000	.00000	.00000	.10650

RUN NO. 0/ 0 R/W/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
3.900	-10.092	.03912	.00000	.00000	.00000	300.78246
3.900	-8.107	.04008	.00000	.00000	.00000	300.80651
3.900	-6.080	.03858	.00000	.00000	.00000	300.57395
3.900	-4.040	.03847	.00000	.00000	.00000	300.83057
3.900	-2.005	.04077	.00000	.00000	.00000	300.86265
3.900	-.019	.04055	.00000	.00000	.00000	300.95463
3.900	2.006	.04031	.00000	.00000	.00000	300.97869
3.900	4.031	.04095	.00000	.00000	.00000	300.83057
3.900	6.073	.04373	.00000	.00000	.00000	300.79047
3.900	8.113	.04294	.00000	.00000	.00000	300.81453
3.900	10.199	.03925	.00000	.00000	.00000	300.67869
	GRADIENT	.00022	.00000	.00000	.00000	.00000

GFWT 1099/1119 (IA-44) CONFIGURATION T4/S7

(YH0002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 IN. FT. XMRP = 976.0000 IN. XT
 LRFP = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. D/ D RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CSW	CSW	CTW	Q (PSF)
4.600	-10.087	.57008	.00000	.00000	.00000	235.56183
4.600	-8.070	.57166	.00000	.00000	.00000	235.76102
4.600	-6.066	.56800	.00000	.00000	.00000	235.49544
4.600	-4.031	.56912	.00000	.00000	.00000	235.69452
4.600	-1.992	.56697	.00000	.00000	.00000	235.56193
4.600	-.020	.56586	.00000	.00000	.00000	235.62923
4.600	1.982	.57991	.00000	.00000	.00000	235.62923
4.600	4.041	.57957	.00000	.00000	.00000	235.56193
4.600	6.058	.58100	.00000	.00000	.00000	235.62923
4.600	8.054	.57297	.00000	.00000	.00000	235.49544
4.600	9.945	.57278	.00000	.00000	.00000	235.56193
	GRADIENT	.00169	.00000	.00000	.00000	-.01000

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/57

(YH0003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDRK = .000 SDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
1.600	-10.829	-.06413	-.08683	-.01231	-.01152	490.37792
1.600	-8.544	-.06625	-.06839	-.00886	-.01124	490.29350
1.600	-6.431	-.06478	-.04958	-.00504	-.01074	481.05239
1.600	-4.629	-.06592	-.02866	-.00081	-.01061	481.13672
1.600	-2.232	-.06446	-.00001	.00494	-.00975	481.64264
1.600	-1.190	-.06497	.01278	.00769	-.00903	481.34752
1.600	-.119	-.06592	.02574	.01049	-.00872	481.38968
1.600	.931	-.06589	.03823	.01316	-.00799	481.51616
1.900	1.977	-.06559	.05056	.01569	-.00667	481.38968
1.600	4.075	-.06660	.07277	.01999	-.00338	481.55932
1.600	6.165	-.06577	.08946	.02315	-.00049	481.60048
1.600	8.269	-.06641	.10415	.02616	.00192	481.68480
1.600	10.454	-.06631	.11344	.02901	.00310	481.55932
	GRADIENT	-.00014	.01174	.00243	.00079	.03069

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.000	-10.029	-.07403	-.06754	-.00803	-.01146	474.90628
2.000	-7.935	-.06996	-.05361	-.00555	-.01091	474.94207
2.000	-5.842	-.06954	-.03945	-.00289	-.01048	475.04942
2.000	-4.061	-.06743	-.02691	-.00058	-.01037	475.04942
2.000	-1.670	-.06633	-.01036	.00266	-.01045	475.08521
2.000	-.619	-.06567	-.00199	.00432	-.01051	475.12099
2.000	.426	-.06540	.00750	.00607	-.01075	475.12099
2.000	1.469	-.06494	.01640	.00790	-.01066	475.01354
2.000	2.518	-.06517	.02539	.00969	-.01053	474.97785
2.000	4.601	-.06364	.04541	.01391	-.00929	475.04942
2.000	6.692	-.06200	.06655	.01799	-.00733	475.08521
2.000	8.799	-.06102	.08937	.02076	-.00525	475.04942
2.000	10.996	-.05931	.09242	.02168	-.00367	474.97785
	GRADIENT	.00040	.00939	.00166	.00009	-.00699

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UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH9093) (01 MAY 75)

REFERENCE DATA:

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 OREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LT = .000 ELV-RT = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BSFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.500	-10.908	.00609	.00000	.00000	.00000	435.35071
2.500	-8.832	.00504	.00000	.00000	.00000	435.24829
2.500	-6.741	.00306	.00000	.00000	.00000	435.40192
2.500	-4.630	.00194	.00000	.00000	.00000	435.22268
2.500	-2.544	.00230	.00000	.00000	.00000	435.17147
2.500	-1.510	.00094	.00000	.00000	.00000	435.86283
2.500	-.478	-.00094	.00000	.00000	.00000	436.17010
2.500	.552	-.00320	.00000	.00000	.00000	435.70919
2.500	1.559	-.00246	.00000	.00000	.00000	435.29950
2.500	3.657	-.00317	.00000	.00000	.00000	435.22268
2.500	5.705	-.00411	.00000	.00000	.00000	435.32510
2.500	7.809	-.00659	.00000	.00000	.00000	435.73480
2.500	9.895	-.00723	.00000	.00000	.00000	435.52995
	GRADIENT	-.00078	.00000	.00000	.00000	.00261

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.860	-10.620	.00384	.00000	.00000	.00000	396.19333
2.860	-8.558	.00296	.00000	.00000	.00000	396.05854
2.860	-6.452	.00180	.00000	.00000	.00000	396.07780
2.860	-4.409	.00134	.00000	.00000	.00000	396.48217
2.860	-2.315	-.00094	.00000	.00000	.00000	396.50143
2.860	-1.263	-.00120	.00000	.00000	.00000	396.27036
2.860	-.263	-.00199	.00000	.00000	.00000	396.57845
2.860	.790	-.00234	.00000	.00000	.00000	396.50143
2.860	1.797	-.00455	.00000	.00000	.00000	396.42440
2.860	3.896	-.00601	.00000	.00000	.00000	396.36664
2.860	5.929	-.00703	.00000	.00000	.00000	396.59771
2.860	8.017	-.00905	.00000	.00000	.00000	396.95226
2.860	10.081	-.00842	.00000	.00000	.00000	396.40515
	GRADIENT	-.00098	.00000	.00000	.00000	-.00097

UPWT 1089/1119 (1A-44) CONFIGURATION 02/14/57

(YH0003) (01 MAY 75)

REFERENCE DATA

SREF = 26911.0000 SQ. FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.516	-.01503	.00000	.00000	.00000	300.69424
3.900	-8.471	-.01645	.00000	.00000	.00000	300.79047
3.900	-6.430	-.01643	.00000	.00000	.00000	300.82255
3.900	-4.388	-.01776	.00000	.00000	.00000	300.82255
3.900	-2.356	-.01977	.00000	.00000	.00000	300.81453
3.900	-1.328	-.01958	.00000	.00000	.00000	300.83057
3.900	-.304	-.01992	.00000	.00000	.00000	300.87067
3.900	.724	-.02081	.00000	.00000	.00000	300.82255
3.900	1.726	-.02056	.00000	.00000	.00000	300.84661
3.900	3.772	-.02114	.00000	.00000	.00000	300.86265
3.900	5.811	-.02234	.00000	.00000	.00000	300.79047
3.900	7.861	-.02412	.00000	.00000	.00000	300.91878
3.900	9.905	-.02363	.00000	.00000	.00000	300.79849
	GRADIENT	-.00038	.00000	.00000	.00000	.00505

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.891	-.01610	.00000	.00000	.00000	234.23532
4.600	-7.856	-.01659	.00000	.00000	.00000	234.30921
4.600	-5.827	-.01874	.00000	.00000	.00000	234.60476
4.600	-3.794	-.01993	.00000	.00000	.00000	234.38310
4.600	-1.763	-.01985	.00000	.00000	.00000	234.30921
4.600	-.745	-.01989	.00000	.00000	.00000	234.23532
4.600	.261	-.02120	.00000	.00000	.00000	234.45699
4.600	1.276	-.02067	.00000	.00000	.00000	234.16144
4.600	2.305	-.02154	.00000	.00000	.00000	234.30921
4.600	4.330	-.02186	.00000	.00000	.00000	234.45699
4.600	6.352	-.02232	.00000	.00000	.00000	234.30921
4.600	8.391	-.02310	.00000	.00000	.00000	234.23532
4.600	10.418	-.02323	.00000	.00000	.00000	234.38310
	GRADIENT	-.00036	.00000	.00000	.00000	.00520

ORIGINAL PAGE IS
 OF POOR QUALITY

UPWT 1099/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH8004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPOBRK = .000 SDFLAT = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (FSF)
1.600	-10.486	-.14741	-.11744	-.00461	-.02403	480.88375
1.600	-8.373	-.14330	-.10100	-.00527	-.03010	480.75727
1.600	-6.315	-.14298	-.13975	-.00558	-.03410	480.79943
1.600	-4.237	-.13478	-.14743	-.00584	-.03843	480.79943
1.600	-2.106	-.13648	-.15055	-.00592	-.04099	480.71511
1.600	-.066	-.13708	-.15338	-.00596	-.04507	480.75727
1.600	2.034	-.13296	-.15055	-.00590	-.04662	480.84159
1.600	4.113	-.12576	-.15237	-.00585	-.04913	480.71511
1.600	6.212	-.13597	-.15294	-.00585	-.04932	480.75727
1.600	8.320	-.14239	-.15603	-.00596	-.05075	480.79943
1.600	10.479	-.15795	-.16579	-.00638	-.05367	480.79943
	GRADIENT	.00103	-.00047	.00000	-.00121	-.00206

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (FSF)
2.000	-10.455	.42350		.00503	-.00656	475.19256
2.000	-8.352	.41939		.00595	-.00637	475.22835
2.000	-6.293	.42294		.00620	-.00759	475.26413
2.000	-4.229	.42585	.00072	.00640	-.00897	475.19256
2.000	-2.105	.42199	-.00131	.00573	-.01117	475.15679
2.000	-.069	.41601	.00233	.00577	-.01182	475.15678
2.000	2.028	.41916	.00391	.00574	-.01295	475.15678
2.000	4.105	.41931	.00763	.00613	-.01314	475.29992
2.000	6.198	.41394	.00921	.00623	-.01394	475.19256
2.000	8.299	.41024	.01283	.00681	-.01407	475.26413
	GRADIENT	-.00076	.00072	-.00003	-.00050	.01031

UFWT 1088/1119 (1A-44) CONFIGURATION 02/14/57

(YH8004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 SPFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
2.860	-10.308	-.24463	.00000	.00000	.00000	396.27036
2.860	-8.760	-.24542	.00000	.00000	.00000	395.36664
2.860	-6.213	-.24550	.00000	.00000	.00000	395.44366
2.860	-4.093	-.25205	.00000	.00000	.00000	395.36664
2.860	-2.039	-.25595	.00000	.00000	.00000	395.50143
2.860	-.020	-.25135	.00000	.00000	.00000	396.57845
2.860	1.999	-.25557	.00000	.00000	.00000	396.50143
2.860	4.098	-.24314	.00000	.00000	.00000	395.27036
2.860	6.196	-.24263	.00000	.00000	.00000	395.90449
2.860	8.218	-.23440	.00000	.00000	.00000	396.21259
2.860	10.447	-.23563	.00000	.00000	.00000	396.23184
	GRADIENT	.00090	.00000	.00000	.00000	-.00959

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
3.900	-4.096	-.31392	.00000	.00000	.00000	300.81453
3.900	-2.043	-.31220	.00000	.00000	.00000	300.75038
3.900	-.022	-.31392	.00000	.00000	.00000	300.71830
3.900	1.983	-.31659	.00000	.00000	.00000	300.81453
3.900	4.065	-.30722	.00000	.00000	.00000	300.73434
3.900	6.125	-.31041	.00000	.00000	.00000	300.80651
3.900	8.166	-.30466	.00000	.00000	.00000	300.85463
	GRADIENT	.00044	.00000	.00000	.00000	-.00479

RUN NO. 0/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
4.600	-4.058	.26399	.00000	.00000	.00000	234.30921
4.600	-2.015	.26323	.00000	.00000	.00000	234.30921
4.600	-.003	.26005	.00000	.00000	.00000	234.38310
4.600	1.992	.25791	.00000	.00000	.00000	234.16144
4.600	4.045	.25002	.00000	.00000	.00000	234.08755
4.600	6.096	.26124	.00000	.00000	.00000	234.23532
4.600	8.108	.26278	.00000	.00000	.00000	234.16144
	GRADIENT	-.00060	.00000	.00000	.00000	-.002921

ORIGINAL PAGE IS
 OF POOR QUALITY

QFWT 1088/1119 (IA-44) CONFIGURATION 20/20/5/

(YH8005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFD89K = .000 BFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.665	4.12937	.06707	.00269	.01562	480.67295
1.600	-8.566	4.12417	.03510	.00146	.00580	480.71511
1.600	-6.458	4.11963	.00082	.00013	-.00441	480.84159
1.600	-4.674	4.11741	-.03242	-.00116	-.01410	480.71511
1.600	-2.249	4.11254	-.09305	-.00352	-.03159	480.67295
1.600	-1.183	4.11178	-.11928	-.00455	-.03893	480.67295
1.600	-.131	4.11361	-.14965	-.00574	-.04745	480.75727
1.600	.914	4.10977	-.17900	-.00690	-.05524	480.75727
1.600	1.972	4.11152	-.20632	-.00799	-.06225	480.75727
1.600	4.069	4.11195	-.25654	-.00999	-.07480	480.84159
1.600	6.149	4.10887	-.29005	-.01136	-.08114	480.71511
1.600	8.258	4.11030	-.31466	-.01238	-.08570	480.67295
1.600	10.448	4.11264	-.32826	-.01293	-.08984	480.71511
	GRADIENT	-.00058	-.02598	-.00102	-.00705	.01633

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.030	4.11997	-.06471	-.00750	-.01284	475.37149
2.000	-7.955	4.11712	-.05108	-.00495	-.01267	475.33570
2.000	-5.856	4.11149	-.03768	-.00237	-.01285	475.15678
2.000	-4.095	4.10990	-.02606	-.00023	-.01261	475.08521
2.000	-1.677	4.10605	-.00852	.00295	-.01243	475.22835
2.000	-.624	4.10702	-.00027	.00451	-.01272	475.12099
2.000	.418	4.10631	.00852	.00616	-.01282	475.19256
2.000	1.462	4.10500	.01635	.00774	-.01294	475.26413
2.000	2.507	4.10378	.02485	.00934	-.01303	475.12099
2.000	4.601	4.10345	.04373	.01304	-.01216	475.22835
2.000	6.691	4.10247	.05306	.01730	-.01109	475.22835
2.000	8.792	4.10164	.07747	.02061	-.01001	475.15678
2.000	10.976	4.10410	.09375	.02230	-.00906	475.22935
	GRADIENT	-.00070	.00801	.00153	.00001	.01136

UPWT 1099/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH8005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUDDER = .000
 SPOBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.614	4.12421	.00000	.00000	.00000	396.49515
2.860	-8.540	4.11905	.00000	.00000	.00000	396.53994
2.860	-6.467	4.11483	.00000	.00000	.00000	396.63622
2.860	-4.402	4.12764	.00000	.00000	.00000	396.59771
2.860	-2.317	4.12125	.00000	.00000	.00000	396.61696
2.860	-1.261	4.11867	.00000	.00000	.00000	396.69399
2.860	-.242	4.11929	.00000	.00000	.00000	396.65549
2.860	.794	4.11666	.00000	.00000	.00000	396.61696
2.860	1.809	4.11618	.00000	.00000	.00000	396.62878
2.860	3.851	4.11130	.00000	.00000	.00000	396.67473
2.860	5.944	4.10729	.00000	.00000	.00000	396.65548
2.860	8.009	4.10495	.00000	.00000	.00000	396.65549
2.860	10.092	4.10195	.00000	.00000	.00000	396.73250
	GRADIENT	-.00178	.00000	.00000	.00000	.01503

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.524	4.08045	.00000	.00000	.00000	300.84661
3.900	-8.491	4.07848	.00000	.00000	.00000	300.89473
3.900	-6.428	4.07573	.00000	.00000	.00000	300.92680
3.900	-4.390	4.07136	.00000	.00000	.00000	300.87067
3.900	-2.352	4.06828	.00000	.00000	.00000	300.83057
3.900	-1.319	4.06595	.00000	.00000	.00000	300.86265
3.900	-.310	4.06509	.00000	.00000	.00000	300.79049
3.900	.719	4.06361	.00000	.00000	.00000	300.85463
3.900	1.741	4.06226	.00000	.00000	.00000	300.81453
3.900	3.779	4.05999	.00000	.00000	.00000	300.84661
3.900	5.819	4.05825	.00000	.00000	.00000	300.93057
3.900	7.959	4.05633	.00000	.00000	.00000	300.87067
3.900	9.916	4.05447	.00000	.00000	.00000	300.83057
	GRADIENT	-.00140	.00000	.00000	.00000	-.00317

DPWT 1089/1119 (1A-44) CONFIGURATION 02/T4/S7

(YH8005) (05 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDSER = .000
 SCDGRK = .000 SCDPLAF = .000

RUN NO. 0/0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CBW	CTW	Q (FSF)
4.600	-9.892	4.05693	.00000	.00000	.00000	234.30921
4.600	-7.849	4.05450	.00000	.00000	.00000	234.23532
4.600	-5.822	4.05196	.00000	.00000	.00000	234.45699
4.600	-3.795	4.05030	.00000	.00000	.00000	234.08755
4.600	-1.753	4.04791	.00000	.00000	.00000	234.23532
4.600	-.748	4.04613	.00000	.00000	.00000	234.08755
4.600	.278	4.04395	.00000	.00000	.00000	234.45699
4.600	1.328	4.04325	.00000	.00000	.00000	234.16144
4.600	2.307	4.04175	.00000	.00000	.00000	234.39310
4.600	4.329	4.03995	.00000	.00000	.00000	234.39310
4.600	6.359	4.03907	.00000	.00000	.00000	234.45699
4.600	8.400	4.03587	.00000	.00000	.00000	234.45699
4.600	10.426	4.03493	.00000	.00000	.00000	234.30921
	GRADIENT	-.00128	.00000	.00000	.00000	.03628

UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7

(YH0006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUDDER = .000
 SFDGRK = .000 SDFLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	q (PSF)
1.600	-10.661	-4.24072	.07685	.00297	.02338	480.71511
1.600	-8.585	-4.22847	.04503	.00175	.01334	480.79943
1.600	-6.455	-4.22306	.00205	.00006	.00070	480.75727
1.600	-4.661	-4.22158	-.03642	-.00143	-.00991	480.75727
1.600	-2.239	-4.21586	-.09448	-.00372	-.02536	480.67295
1.600	-1.188	-4.21474	-.12062	-.00476	-.03199	480.67295
1.600	-.133	-4.21340	-.14584	-.00577	-.03836	480.75727
1.600	.924	-4.21251	-.17097	-.00678	-.04418	480.71511
1.600	1.974	-4.21151	-.19086	-.00757	-.04899	480.75727
1.600	4.069	-4.20947	-.22264	-.00895	-.05639	480.71511
1.600	6.163	-4.21193	-.25420	-.01013	-.05344	480.71511
1.600	8.264	-4.21145	-.28067	-.01119	-.07013	480.71511
1.600	10.451	-4.21716	-.29597	-.01178	-.07414	480.71511
	GRADIENT	.00132	-.02178	-.00097	-.00541	.00067

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	q (PSF)
2.000	-10.027	-4.21883	-.07060	-.00834	-.01064	475.12099
2.000	-7.943	-4.21128	-.05867	-.00620	-.01035	475.12099
2.000	-5.845	-4.20521	-.04550	-.00363	-.00987	475.01364
2.000	-4.056	-4.19860	-.03256	-.00111	-.00951	475.04942
2.000	-1.671	-4.19352	-.01395	.00272	-.00924	475.04942
2.000	-.621	-4.19366	-.00545	.00456	-.00906	475.19256
2.000	.426	-4.19120	.00372	.00641	-.00884	475.04942
2.000	1.472	-4.19096	.01199	.00825	-.00870	475.12099
2.000	2.519	-4.18788	.01794	.00956	-.00798	475.08321
2.000	4.605	-4.18613	.03475	.01321	-.00592	475.08321
2.000	6.704	-4.18357	.04926	.01610	-.00414	475.12099
2.000	8.801	-4.18293	.05771	.01782	-.00344	475.09521
2.000	10.991	-4.18421	.06058	.01845	-.00235	475.04942
	GRADIENT	.00142	.00777	.00165	.00040	.00334

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1099/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH0006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 975.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUGGER = .000
 SFDRK = .000 BOFLAF = .000

RUN NO. D/ D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

4ACH	ALPHA	BETA	CNW	CSW	CTW	Q (FSF)
2.860	-10.617	-4.13564	.00000	.00000	.00000	396.40515
2.860	-9.545	-4.13473	.00000	.00000	.00000	396.44366
2.860	-6.467	-4.13470	.00000	.00000	.00000	396.67473
2.860	-4.386	-4.13296	.00000	.00000	.00000	396.52068
2.860	-2.317	-4.12925	.00000	.00000	.00000	396.61696
2.860	-1.286	-4.12890	.00000	.00000	.00000	396.44366
2.860	-.251	-4.12831	.00000	.00000	.00000	396.59771
2.860	.777	-4.12874	.00000	.00000	.00000	396.36664
2.860	1.811	-4.12711	.00000	.00000	.00000	395.89523
2.860	3.871	-4.12756	.00000	.00000	.00000	395.96226
2.860	5.930	-4.12678	.00000	.00000	.00000	396.05854
2.860	7.997	-4.12901	.00000	.00000	.00000	396.03928
2.860	10.083	-4.13013	.00000	.00000	.00000	396.00077
	GRADIENT	.00060	.00000	.00000	.00000	-.00704

RUN NO. D/ D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

4ACH	ALPHA	BETA	CNW	CSW	CTW	Q (FSF)
3.900	-10.525	-4.10132	.00000	.00000	.00000	300.79849
3.900	-9.475	-4.10193	.00000	.00000	.00000	300.90275
3.900	-5.441	-4.10139	.00000	.00000	.00000	300.83957
3.900	-4.394	-4.09954	.00000	.00000	.00000	300.79849
3.900	-2.344	-4.09915	.00000	.00000	.00000	300.81453
3.900	-1.331	-4.09730	.00000	.00000	.00000	300.79849
3.900	-.307	-4.09656	.00000	.00000	.00000	300.71830
3.900	.713	-4.09546	.00000	.00000	.00000	300.54613
3.900	1.728	-4.09427	.00000	.00000	.00000	300.89551
3.900	3.779	-4.09362	.00000	.00000	.00000	300.77444
3.900	5.816	-4.09377	.00000	.00000	.00000	300.82255
3.900	7.861	-4.09340	.00000	.00000	.00000	300.74236
3.900	9.908	-4.09340	.00000	.00000	.00000	300.73434
	GRADIENT	.00083	.00000	.00000	.00000	-.00617

UPWT 1085/1119 (1A-44) CONFIGURATION 02/14/57

(YH8006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RLODER = .000
 SFDRK = .000 BDFLAF = .000

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CBW	CTW	Q (PSF)
4.600	-9.889	-4.06304	.00000	.00000	.00000	234.38310
4.600	-7.857	-4.06205	.00000	.00000	.00000	234.30921
4.600	-5.819	-4.06063	.00000	.00000	.00000	234.16144
4.600	-3.796	-4.06096	.00000	.00000	.00000	234.30921
4.600	-1.761	-4.05989	.00000	.00000	.00000	234.30921
4.600	-.729	-4.05943	.00000	.00000	.00000	234.30921
4.600	.276	-4.05776	.00000	.00000	.00000	234.08755
4.600	1.293	-4.05720	.00000	.00000	.00000	234.08755
4.600	2.303	-4.05710	.00000	.00000	.00000	234.30921
4.600	4.335	-4.05581	.00000	.00000	.00000	234.30921
4.600	6.357	-4.05476	.00000	.00000	.00000	234.01366
4.600	8.383	-4.05400	.00000	.00000	.00000	234.23532
4.600	10.422	-4.05371	.00000	.00000	.00000	234.23532
	GRADIENT	.00067	.00000	.00000	.00000	-.00518

UPWT 1088/1119 (IA-44) CONFIGURATION 02/12/57

(YH8007) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BSFLAP = .000

RUN NO. 0/ 0 R/V/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.637	-.05202	-.09083	-.01180	-.00837	480.29350
1.600	-8.548	-.05103	-.06269	-.00353	-.00834	479.49245
1.600	-6.441	-.05071	-.04240	-.00479	-.00797	481.05239
1.600	-4.667	-.04834	-.02189	-.00086	-.00760	480.12486
1.600	-2.234	-.04593	.00928	.00498	-.00665	480.54647
1.600	-1.182	-.04570	.02144	.00761	-.00590	481.38968
1.600	-.124	-.04681	.03554	.01047	-.00542	481.38968
1.600	.927	-.04541	.04921	.01315	-.00426	481.51616
1.600	1.974	-.04546	.06292	.01570	-.00280	481.38968
1.600	4.067	-.04308	.08470	.01975	.00068	481.26320
1.600	6.158	-.04062	.10224	.02292	.00407	481.22104
1.600	8.269	-.04149	.11990	.02606	.00639	481.09456
1.600	10.453	-.03870	.12792	.02770	.00726	481.05239
	GRADIENT	.00049	.01240	.00241	.00093	.14243

RUN NO. 0/ 0 R/V/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.030	-.05518	-.04310	-.00749	-.00454	475.04942
2.000	-7.952	-.05521	-.03032	-.00513	-.00415	475.72934
2.000	-5.847	-.05173	-.01679	-.00251	-.00390	475.44306
2.000	-4.066	-.04957	-.00492	-.00020	-.00385	474.97785
2.000	-1.670	-.04955	.01255	.00323	-.00406	474.47686
2.000	-.629	-.04874	.02054	.00482	-.00432	474.51264
2.000	.422	-.04953	.02911	.00662	-.00445	474.51264
2.000	1.466	-.04731	.03772	.00941	-.00442	474.65578
2.000	2.510	-.04812	.04613	.01009	-.00443	474.58421
2.000	4.595	-.04595	.06605	.01424	-.00279	474.72735
2.000	6.602	-.04450	.08780	.01855	-.00080	474.65578
2.000	8.793	-.04246	.10100	.02137	.00105	474.69157
2.000	10.989	-.04127	.10469	.02241	.00245	474.65578
	GRADIENT	.00044	.00815	.00166	.00007	-.01605

UPWT 1080/1119 (IA-44) CONFIGURATION 02/T4/S6

(YH0000) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRBK = .000 BOFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
1.600	-10.647	-.05259	-.09426	-.01194	-.01058	480.50431
1.600	-8.555	-.05121	-.05577	-.00856	-.01011	481.47400
1.600	-6.450	-.04969	-.04525	-.00475	-.01005	482.44369
1.600	-4.631	-.04873	-.02595	-.00090	-.00990	482.48595
1.600	-2.236	-.04732	.00214	.00484	-.00904	481.97993
1.600	-1.184	-.04709	.01500	.00755	-.00858	481.93777
1.600	-.125	-.04406	.02674	.01010	-.00847	482.61234
1.600	.922	-.04600	.03999	.01287	-.00752	483.16042
1.600	1.979	-.04339	.05266	.01535	-.00673	482.61234
1.600	4.069	-.04162	.07474	.01951	-.00322	481.64264
1.600	6.163	-.04028	.09140	.02260	-.00040	479.19733
1.600	8.257	-.03873	.10782	.02565	.00185	479.32381
1.600	10.452	-.03833	.11523	.02720	.00291	481.55832
	GRADIENT	.00082	.01167	.00238	.00071	-.01963

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.000	-10.039	-.05305	-.05839	-.00798	-.01020	475.22835
2.000	-7.966	-.05332	-.04511	-.00559	-.00948	475.40727
2.000	-5.856	-.05196	-.03054	-.00292	-.00919	475.97994
2.000	-4.075	-.04819	-.01815	-.00055	-.00894	475.65777
2.000	-1.672	-.04788	-.00111	.00283	-.00892	475.62199
2.000	-.630	-.04732	.00673	.00441	-.00906	474.94207
2.000	.415	-.04631	.01587	.00617	-.00941	474.72735
2.000	1.465	-.04592	.02533	.00812	-.00934	475.22935
2.000	2.509	-.04590	.03416	.00989	-.00902	475.55041
2.000	4.597	-.04410	.05359	.01397	-.00779	475.51463
2.000	6.695	-.04323	.07577	.01836	-.00569	474.08322
2.000	8.791	-.04229	.09999	.02115	-.00353	475.47884
2.000	10.978	-.03994	.09203	.02205	-.00225	475.80091
	GRADIENT	.00049	.00832	.00158	.00009	-.01136

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1080/1119 (IA-44) CONFIGURATION CR/T4/S3

(YH8009) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XNREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YNREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZNREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SCDBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.650	-.05463	-.07654	-.01186	-.00650	481.17888
1.600	-8.551	-.05179	-.05709	-.00840	-.00680	481.22104
1.600	-6.434	-.04916	-.03704	-.00463	-.00633	481.09456
1.600	-4.650	-.04752	-.01803	-.00080	-.00609	481.09456
1.600	-2.229	-.04699	.01173	.00510	-.00530	481.05239
1.600	-1.177	-.04574	.02403	.00774	-.00494	481.13672
1.600	-.123	-.04537	.03576	.01030	-.00463	481.23672
1.600	.927	-.04387	.04927	.01300	-.00396	481.26320
1.600	1.977	-.04349	.06234	.01558	-.00270	481.22104
1.600	4.071	-.04184	.08479	.01958	.00061	481.22104
1.600	6.162	-.04272	.10076	.02278	.00386	481.17888
1.600	8.266	-.03842	.11719	.02586	.00580	481.26320
1.600	10.459	-.03842	.12496	.02737	.00651	481.39968
	GRADIENT	.00069	.01185	.00238	.00072	.02117

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.024	-.05519	-.04670	-.00766	-.00554	474.90628
2.000	-7.955	-.05337	-.03403	-.00527	-.00509	474.67049
2.000	-5.947	-.05151	-.02007	-.00267	-.00493	474.83471
2.000	-4.076	-.04970	-.00832	-.00036	-.00450	474.83471
2.000	-1.679	-.04873	.00916	.00305	-.00471	474.90628
2.000	-.630	-.04849	.01730	.00468	-.00485	475.01364
2.000	.422	-.04835	.02636	.00644	-.00469	474.83471
2.000	1.465	-.04793	.03567	.00820	-.00490	474.83471
2.000	2.511	-.04704	.04499	.01019	-.00447	474.90628
2.000	4.601	-.04491	.06479	.01427	-.00325	474.90628
2.000	6.691	-.04410	.08688	.01855	-.00135	475.01364
2.000	8.795	-.04059	.09995	.02139	.00086	475.01364
2.000	10.984	-.04020	.10289	.02225	.00185	474.90628
	GRADIENT	.00051	.00845	.00169	.00012	.00255

WGT 1088/1119 (A-44) CONFIGURATION 02/T4/52

(YH0010) (05 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SPOBRK = .000 SDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
1.600	-10.650	-.05339	-.07641	-.01190	-.00656	481.55932
1.600	-8.559	-.04954	-.05671	-.00847	-.00631	481.76912
1.600	-6.457	-.04928	-.03525	-.00458	-.00568	481.69480
1.600	-4.639	-.04660	-.01506	-.00069	-.00521	481.55932
1.600	-2.232	-.04570	.01491	.00521	-.00414	481.51616
1.600	-1.198	-.04534	.02681	.00757	-.00381	481.51616
1.600	-.126	-.04508	.03992	.01035	-.00321	481.51616
1.600	.929	-.04338	.05350	.01299	-.00262	481.55932
1.600	1.934	-.04210	.06792	.01577	-.00100	481.64264
1.600	4.074	-.04201	.08938	.01973	.00257	481.55932
1.600	6.162	-.04059	.10667	.02292	.00561	481.55932
1.600	8.267	-.03709	.12186	.02584	.00769	481.55932
1.600	10.460	-.03807	.13079	.02749	.00880	481.51616
	GRADIENT	.00060	.01213	.00238	.00084	.00630

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.000	-10.058	-.05436	-.04030	-.00744	-.00370	475.65777
2.000	-7.959	-.05330	-.02766	-.00503	-.00332	475.40727
2.000	-5.856	-.05192	-.01319	-.00238	-.00293	475.22835
2.000	-4.051	-.04889	-.00151	-.00007	-.00295	474.94207
2.000	-1.660	-.04758	.01620	.00331	-.00297	474.72735
2.000	-.622	-.04587	.02390	.00493	-.00299	475.04942
2.000	.424	-.04708	.03353	.00678	-.00297	475.04942
2.000	1.471	-.04507	.04249	.00859	-.00295	474.87049
2.000	2.515	-.04503	.05050	.01033	-.00295	474.76314
2.000	4.608	-.04409	.07021	.01448	-.00167	474.79892
2.000	6.709	-.04228	.09192	.01882	.00025	474.94207
2.000	8.807	-.04185	.10497	.02143	.00234	474.97785
2.000	10.993	-.03933	.10760	.02234	.00397	474.94207
	GRADIENT	.00056	.00929	.00158	.00011	-.01503

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 02/74/52

(YH8010) (03 JUN 75)

REFERENCE DATA

SREF = 2690.0000 Sq.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-RD = .000 RUMBER = .000
 SPOBRK = .000 BDF_LAF = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.860	-10.616	-.00285	-.04195	-.00425	-.01157	395.59574
2.860	-8.536	-.00175	-.03612	-.00309	-.01132	395.59639
2.860	-6.462	-.00045	-.02897	-.00189	-.01073	395.44235
2.860	-4.384	-.00052	-.02175	-.00070	-.01020	395.82747
2.860	-2.324	.00039	-.01634	.00033	-.00976	396.61696
2.860	-1.288	-.00021	-.01428	.00096	-.00995	396.13556
2.860	-.253	-.00036	-.01207	.00137	-.01040	395.65416
2.860	.769	.00049	-.01013	.00200	-.01090	395.94672
2.860	1.806	-.00010	-.00725	.00265	-.01079	395.67342
2.860	3.863	.00059	.00233	.00458	-.01055	396.02003
2.860	5.925	-.00030	.01237	.00671	-.01076	395.96598
2.860	8.001	-.00081	.02100	.00874	-.01116	395.86598
2.860	10.077	.00049	.03002	.01107	-.01116	395.90449
	GRADIENT	.00009	.00274	.00062	-.00009	-.03255

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
4.600	-9.894	-.00161	-.07194	-.00433	-.02449	235.26937
4.600	-7.872	-.00187	-.07322	-.00420	-.02472	235.33576
4.600	-5.833	-.00172	-.07277	-.00385	-.02474	235.40216
4.600	-3.808	-.00097	-.06856	-.00284	-.02412	235.13659
4.600	-1.778	-.00132	-.06588	-.00224	-.02368	235.13658
4.600	-.760	-.00065	-.06430	-.00184	-.02332	235.26937
4.600	.257	-.00139	-.06191	-.00143	-.02327	235.40216
4.600	1.269	-.00112	-.05994	-.00093	-.02267	235.26937
4.600	2.288	-.00081	-.05959	-.00048	-.02270	235.20297
4.600	4.311	-.00109	-.05600	.00032	-.02299	235.33576
4.600	6.342	-.00093	-.05135	.00123	-.02292	235.40216
4.600	8.377	-.00103	-.04523	.00241	-.02297	235.40216
4.600	10.412	-.00054	-.04120	.00342	-.02240	235.40216
	GRADIENT	-.00001	.00158	.00040	.00017	.02181

UPWT 1080/1119 (IA-44) CONFIGURATION 02/T4/S1

(YH8011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.670	-.05319	-.08995	-.01271	-.00947	480.92591
1.600	-8.577	-.05169	-.06868	-.00943	-.00855	490.79943
1.600	-6.463	-.04949	-.04991	-.00590	-.00861	481.17888
1.600	-4.674	-.04733	-.03049	-.00235	-.00786	481.30536
1.600	-2.263	-.04497	.00672	.00362	-.00542	481.26320
1.600	-1.208	-.04396	.00792	.00547	-.00731	481.26320
1.600	-.151	-.04539	.01766	.00795	-.00752	481.26320
1.600	.893	-.04436	.02860	.01041	-.00673	481.47400
1.600	1.948	-.04272	.05169	.01336	-.00417	481.51616
1.600	4.035	-.04072	.06420	.01729	-.00305	481.60048
1.600	6.130	-.04028	.07698	.02060	-.00198	481.72596
1.600	8.225	-.03845	.09718	.02387	.00142	481.43184
1.600	10.425	-.03784	.11019	.02582	.00277	481.26320
	GRADIENT	.00067	.01093	.00227	.00049	.04111

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.071	-.05419	-.15499	-.00800	-.00784	476.08719
2.000	-7.987	-.04909	-.04128	-.00563	-.00711	473.94008
2.000	-5.871	-.04882	-.03677	-.00357	-.00845	475.33570
2.000	-4.084	-.04593	-.01320	-.00082	-.00584	475.51463
2.000	-1.697	-.04361	-.00033	.00221	-.00664	475.19256
2.000	-.645	-.04535	-.00459	.00324	-.00894	474.58421
2.000	.397	-.04402	.00494	.00486	-.00842	474.58421
2.000	1.444	-.04295	.01217	.00663	-.00997	474.65578
2.000	2.488	-.04069	.01767	.00832	-.00953	474.65578
2.000	4.581	-.04272	.04659	.01296	-.00734	474.54843
2.000	6.672	-.04127	.07093	.01729	-.00501	474.58421
2.000	8.792	-.03900	.07527	.01951	-.00473	474.62000
2.000	10.967	-.03630	.08697	.02099	-.00194	474.69157
	GRADIENT	.00046	.00643	.00156	-.00027	-.10924

UPWT 1088/1119 (IA-44) CONFIGURATION Q2/T4/S1

(YH0011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LRFP = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRFP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SFDRX = .000 BDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.609	-.00710	-.04676	-.00459	-.01235	395.84672
2.860	-8.543	-.00314	-.04136	-.00346	-.01209	395.98523
2.860	-6.470	-.00252	-.03532	-.00218	-.01178	395.76970
2.860	-4.387	-.00226	-.02986	-.00106	-.01171	395.51937
2.860	-2.319	-.00092	-.02435	.00007	-.01161	395.90449
2.860	-1.289	-.00096	-.02299	.00054	-.01184	395.90449
2.860	-.252	-.00181	-.02024	.00110	-.01189	395.03928
2.860	.773	-.00177	-.01746	.00171	-.01193	395.92375
2.860	1.810	-.00109	-.01402	.00243	-.01192	395.05954
2.860	3.868	-.00112	-.00519	.00421	-.01158	395.69267
2.860	5.921	-.00041	.00472	.00611	-.01118	395.03928
2.860	8.004	-.00039	.01468	.00817	-.01113	395.19333
2.860	10.077	.00041	.02265	.01009	-.01093	395.17408
	GRADIENT	.00008	.00298	.00062	-.00000	.02361

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.529	-.00371	-.05901	-.00382	-.01925	300.88671
3.900	-8.493	-.00340	-.05883	-.00361	-.01992	300.88671
3.900	-6.447	-.00309	-.05750	-.00326	-.01999	300.82255
3.900	-4.403	-.00297	-.05596	-.00257	-.02007	300.87869
3.900	-2.360	-.00324	-.05276	-.00188	-.01999	300.79949
3.900	-1.336	-.00301	-.05105	-.00145	-.01995	300.84661
3.900	-.319	-.00287	-.04934	-.00094	-.01982	300.83659
3.900	.700	-.00263	-.04819	-.00046	-.01966	300.87067
3.900	1.727	-.00215	-.04562	.00009	-.01934	300.83057
3.900	3.765	-.00251	-.04129	.00120	-.01921	300.79047
3.900	5.805	-.00239	-.03473	.00256	-.01863	300.86265
3.900	7.847	-.00251	-.03315	.00335	-.01871	300.87067
3.900	9.894	-.00199	-.02747	.00459	-.01831	300.87869
	GRADIENT	.00010	.00176	.00047	.00011	-.00517

UPWT 1098/1119 (IA-44) CONFIGURATION 02/T4/S1

(YH8011) (05 34: 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CBW	CTW	Q (PSF)
4.600	-9.901	-.00277	-.07807	-.00439	-.02660	235.53258
4.600	-7.870	-.00130	-.07804	-.00429	-.02673	235.59897
4.600	-5.841	-.00227	-.07611	-.00382	-.02599	235.53258
4.600	-3.813	-.00240	-.07233	-.00296	-.02546	235.53258
4.600	-1.777	-.00221	-.06906	-.00230	-.02490	235.59897
4.600	-.757	-.00190	-.06747	-.00190	-.02470	235.53258
4.600	.251	-.00144	-.06479	-.00140	-.02412	235.53258
4.600	1.269	-.00216	-.06264	-.00091	-.02380	235.53258
4.600	2.282	-.00270	-.06158	-.00049	-.02385	235.53258
4.600	3.316	-.00191	-.05919	.00036	-.02387	235.53258
4.600	4.345	-.00126	-.05379	.00128	-.02337	235.46618
4.600	5.377	-.00090	-.04964	.00233	-.02318	235.53258
4.500	10.411	-.00143	-.04528	.00325	-.02319	235.59897
	GRADIENT	.00005	.00179	.00042	.00022	-.00311

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/58

(YH0012) (03 JAN 75)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 DREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 SPFLAP = .000

RUN NO. 0/0 R/VL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.661	-.05187	-.05726	-.01137	-.00463	480.75727
1.600	-8.567	-.05148	-.04856	-.00799	-.00426	480.75727
1.600	-6.455	-.04961	-.02778	-.00423	-.00401	480.84159
1.600	-4.659	-.04656	-.00845	-.00039	-.00371	480.84159
1.600	-2.253	-.04574	.02005	.00541	-.00286	480.88375
1.600	-1.202	-.04514	.03364	.00914	-.00249	480.88375
1.600	-.145	-.04661	.04504	.01067	-.00209	480.84159
1.600	.904	-.04239	.05887	.01338	-.00136	480.84159
1.600	1.957	-.04399	.07202	.01595	-.00024	480.88375
1.600	4.055	-.04272	.09346	.02011	.00289	480.95807
1.600	6.145	-.04095	.11108	.02327	.00514	480.92591
1.600	8.245	-.03964	.12596	.02624	.00812	480.92591
1.600	10.421	-.03997	.13493	.02781	.00929	480.92591
	GRADIENT	.00047	.01183	.00239	.00072	.01015

RUN NO. 0/0 R/VL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.053	-.05661	-.03497	-.00706	-.00251	475.15678
2.000	-7.957	-.05447	-.02134	-.00460	-.00202	475.19256
2.000	-5.981	-.05119	-.00753	-.00196	-.00157	475.19256
2.000	-4.085	-.04954	.00502	.00035	-.00146	475.19256
2.000	-1.701	-.04967	.02191	.00364	-.00164	474.97785
2.000	-.644	-.04775	.03002	.00529	-.00171	474.76314
2.000	.404	-.04710	.03844	.00701	-.00188	474.69157
2.000	1.441	-.04630	.04797	.00889	-.00174	474.79892
2.000	2.492	-.04659	.05639	.01057	-.00183	474.83471
2.000	4.599	-.04529	.07709	.01479	-.00059	474.83471
2.000	6.695	-.04438	.09790	.01909	.00115	474.93471
2.000	8.776	-.04127	.10920	.02173	.00309	474.72735
2.000	10.961	-.03947	.10785	.02252	.00377	474.79892
	GRADIENT	.00041	.00929	.00165	.00007	-.03822

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/58

(YH8012) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRP = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRSK = .000 SCFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.518	-.01597	.00000	.00000	.00000	301.05511
3.900	-8.466	-.01786	.00000	.00000	.00000	300.97452
3.900	-6.426	-.01870	.00000	.00000	.00000	300.90275
3.900	-4.369	-.01935	.00000	.00000	.00000	300.87067
3.900	-2.346	-.02015	.00000	.00000	.00000	300.76642
3.900	-1.324	-.02097	.00000	.00000	.00000	300.82255
3.900	-.305	-.02149	.00000	.00000	.00000	300.86265
3.900	.708	-.02172	.00000	.00000	.00000	300.79047
3.900	1.731	-.02131	.00000	.00000	.00000	300.89473
3.900	3.776	-.02279	.00000	.00000	.00000	300.80551
3.900	5.824	-.02392	.00000	.00000	.00000	300.90275
3.900	7.869	-.02525	.00000	.00000	.00000	300.95988
3.900	9.907	-.02505	.00000	.00000	.00000	300.94284
	GRADIENT	-.00039	.00000	.00000	.00000	-.00074

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.885	-.01661	.00000	.00000	.00000	235.26379
4.600	-7.852	-.01701	.00000	.00000	.00000	235.18990
4.600	-5.821	-.01897	.00000	.00000	.00000	235.55933
4.600	-3.798	-.01919	.00000	.00000	.00000	235.26379
4.600	-1.204	-.01990	.00000	.00000	.00000	235.04213
4.600	-.748	-.01975	.00000	.00000	.00000	235.04213
4.600	.267	-.02069	.00000	.00000	.00000	235.18990
4.600	1.285	-.02183	.00000	.00000	.00000	235.55933
4.600	2.303	-.02225	.00000	.00000	.00000	235.48545
4.600	4.334	-.02215	.00000	.00000	.00000	235.33767
4.600	6.369	-.02264	.00000	.00000	.00000	235.33767
4.600	8.389	-.02297	.00000	.00000	.00000	235.18990
4.600	10.431	-.02371	.00000	.00000	.00000	235.41156
	GRADIENT	-.00044	.00000	.00000	.00000	.03960

UFWT 1098/1119 (1A-44) CONFIGURATION 03/T4/S7

(YH8013) (03 JAN 75)

REFERENCE DATA

SREF = 2590.0000 \$G.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-L1 = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 S-DGRK = .000 SDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
1.600	-10.644	-.05155	-.05751	-.01102	-.00581	480.67295
1.600	-9.566	-.05115	-.05607	-.00799	-.00684	480.96907
1.600	-6.452	-.04773	-.03023	-.00398	-.00530	481.22104
1.600	-4.656	-.04672	-.01329	-.00035	-.00539	481.22104
1.600	-2.253	-.04659	.01401	.00526	-.00454	481.13672
1.600	-1.159	-.04335	.02593	.00775	-.00430	481.01023
1.600	-.147	-.04449	.03732	.01024	-.00403	480.96907
1.600	.907	-.04440	.04775	.01291	-.00419	481.13672
1.600	1.947	-.04479	.06146	.01541	-.00264	481.26320
1.600	4.048	-.04321	.09376	.01955	.00072	481.13672
1.600	6.129	-.04048	.09968	.02262	.00356	481.09456
1.600	8.232	-.04013	.11584	.02562	.00567	481.01023
1.600	10.415	-.03909	.12507	.02742	.00647	481.05239
	GRADIENT	.00037	.01115	.00233	.00062	.00028

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.000	-10.044	-.05358	-.04439	-.00716	-.00569	474.79882
2.000	-7.972	-.05233	-.03013	-.00476	-.00487	474.87049
2.000	-5.867	-.05172	-.01735	-.00228	-.00486	475.04942
2.000	-4.092	-.04904	-.02404	-.00079	-.00827	475.09521
2.000	-1.702	-.04844	-.00313	.00267	-.00768	474.97785
2.000	-.656	-.04732	.01483	.00466	-.00556	474.97785
2.000	.392	-.04702	.01303	.00597	-.00775	474.97785
2.000	1.441	-.04603	.01855	.00762	-.00831	474.97785
2.000	2.489	-.04521	.03011	.00981	-.00634	475.01364
2.000	4.575	-.04502	.05457	.01365	-.00569	474.94207
2.000	6.667	-.04366	.07724	.01890	-.00360	474.94207
2.000	8.760	-.04148	.09358	.02103	-.00060	475.04942
2.000	10.951	-.04011	.09475	.02203	.00025	475.01364
	GRADIENT	.00053	.00889	.00166	.00023	-.01135

UPWT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7

(YH0013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 DREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BCFAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q(PSF)
2.500	-10.912	-.01550	.00000	.00000	.00000	434.12163
2.500	-8.826	-.01491	.00000	.00000	.00000	434.37769
2.500	-6.734	-.01495	.00000	.00000	.00000	434.69496
2.500	-4.652	-.01604	.00000	.00000	.00000	434.81299
2.500	-2.572	-.01646	.00000	.00000	.00000	434.45450
2.500	-1.533	-.01851	.00000	.00000	.00000	434.83859
2.500	-.490	-.01674	.00000	.00000	.00000	434.63374
2.500	.545	-.01859	.00000	.00000	.00000	434.73617
2.500	1.575	-.01917	.00000	.00000	.00000	434.37769
2.500	3.651	-.01976	.00000	.00000	.00000	434.63374
2.500	5.723	-.02067	.00000	.00000	.00000	434.68496
2.500	7.817	-.02214	.00000	.00000	.00000	434.68496
2.500	9.898	-.02336	.00000	.00000	.00000	434.55693
	GRADIENT	-.00047	.00000	.00000	.00000	-.02231

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q(PSF)
2.860	-10.619	-.01747	.00000	.00000	.00000	395.94300
2.860	-8.540	-.01663	.00000	.00000	.00000	395.96226
2.860	-6.464	-.01664	.00000	.00000	.00000	395.84672
2.860	-4.387	-.01871	.00000	.00000	.00000	395.82003
2.860	-2.323	-.01902	.00000	.00000	.00000	395.82003
2.860	-1.296	-.01952	.00000	.00000	.00000	395.99151
2.860	-.250	-.01941	.00000	.00000	.00000	396.09705
2.860	.786	-.02081	.00000	.00000	.00000	395.88523
2.860	1.814	-.02163	.00000	.00000	.00000	395.86599
2.860	3.876	-.02243	.00000	.00000	.00000	395.87780
2.860	5.931	-.02331	.00000	.00000	.00000	395.87780
2.860	8.002	-.02356	.00000	.00000	.00000	395.96226
2.860	10.074	-.02350	.00000	.00000	.00000	395.99151
	GRADIENT	-.00049	.00000	.00000	.00000	-.00400

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 03/T4/S7

(YH8013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRFC = .000 SDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.509	-.01866	.00000	.00000	.00000	300.95088
3.900	-9.475	-.01943	.00000	.00000	.00000	300.96690
3.900	-6.432	-.02000	.00000	.00000	.00000	300.99096
3.900	-4.396	-.02091	.00000	.00000	.00000	301.01502
3.900	-2.351	-.02046	.00000	.00000	.00000	300.97492
3.900	-1.332	-.02026	.00000	.00000	.00000	300.66216
3.900	-.302	-.02073	.00000	.00000	.00000	300.95088
3.900	.714	-.02063	.00000	.00000	.00000	300.96690
3.900	1.735	-.02035	.00000	.00000	.00000	300.95086
3.900	3.771	-.02072	.00000	.00000	.00000	300.87067
3.900	5.817	-.02099	.00000	.00000	.00000	300.79049
3.900	7.866	-.02216	.00000	.00000	.00000	300.75840
3.900	9.910	-.02185	.00000	.00000	.00000	300.77444
	GRADIENT	.00001	.00000	.00000	.00000	-.00745

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.894	-.00427	.00000	.00000	.00000	235.66541
4.600	-7.853	-.00531	.00000	.00000	.00000	235.66541
4.600	-5.837	-.00710	.00000	.00000	.00000	235.74030
4.600	-3.796	-.00900	.00000	.00000	.00000	235.88808
4.600	-1.766	-.01047	.00000	.00000	.00000	235.74030
4.600	-.750	-.01015	.00000	.00000	.00000	235.44475
4.600	.273	-.01144	.00000	.00000	.00000	235.66541
4.600	1.285	-.01230	.00000	.00000	.00000	235.66541
4.600	2.300	-.01216	.00000	.00000	.00000	235.59253
4.600	4.327	-.01347	.00000	.00000	.00000	235.51964
4.600	6.358	-.01429	.00000	.00000	.00000	235.51964
4.600	8.398	-.01536	.00000	.00000	.00000	235.51964
4.600	10.429	-.01658	.00000	.00000	.00000	235.66541
	GRADIENT	-.00055	.00000	.00000	.00000	-.00636

UPWT 1988/1119 (IA-44) CONFIGURATION 02/T4/57

(YH0014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = .000 RUDDER = .000
 SFCBRK = .000 SFCFLAP = .000

RUN NO. 0/ 0 RML = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.631	-.06602	-.09287	-.01100	-.01826	491.76912
1.600	-8.545	-.06704	-.06509	-.00763	-.01754	485.01549
1.600	-6.434	-.06515	-.04506	-.00385	-.01690	483.91931
1.600	-4.639	-.06491	-.02451	.00021	-.01666	480.54647
1.600	-2.229	-.06760	.00512	.00617	-.01536	481.01023
1.600	-1.174	-.06646	.01809	.00891	-.01439	482.19073
1.600	-.122	-.06666	.02960	.01133	-.01395	482.10641
1.600	.939	-.06659	.04369	.01426	-.01280	481.81129
1.600	1.998	-.06783	.05739	.01693	-.01127	482.19073
1.600	4.074	-.06656	.07853	.02106	-.00759	482.19073
1.600	6.172	-.06673	.09404	.02421	-.00442	482.35937
1.600	8.274	-.06778	.10995	.02723	-.00174	482.19073
1.600	10.451	-.06592	.11793	.02997	-.00038	482.23289
	GRADIENT	-.00016	.01195	.00243	.00101	.19071

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.002	-.06895	-.05305	-.00699	-.01484	474.58421
2.000	-7.927	-.06749	-.04082	-.00451	-.01406	474.62000
2.000	-5.831	-.06834	-.02733	-.00191	-.01341	474.69157
2.000	-4.042	-.06753	-.01498	.00050	-.01313	474.58421
2.000	-1.649	-.06859	.00113	.00394	-.01330	474.65578
2.000	-.602	-.06912	.00929	.00549	-.01332	474.62000
2.000	.436	-.06990	.01855	.00739	-.01326	474.51264
2.000	1.492	-.06955	.02839	.00933	-.01307	474.65578
2.000	2.521	-.06915	.03668	.01107	-.01292	474.62000
2.000	4.615	-.06799	.05894	.01553	-.01097	474.69157
2.000	6.707	-.06910	.07872	.01959	-.00847	474.83471
2.000	8.221	-.06934	.09790	.02154	-.00671	474.76314
2.000	10.992	-.06906	.12120	.02280	-.00455	474.69157
	GRADIENT	-.00010	.00853	.00174	.00022	.00873

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UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(YH5014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RP = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 6.000 ELV-RI = 8.000
 ELV-RD = .000 RUDDER = .000
 SFDRFX = .000 BOFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.500	-10.907	-.01146	.00000	.00000	.00000	434.81299
2.500	-8.817	-.01352	.00000	.00000	.00000	435.09465
2.500	-6.724	-.01356	.00000	.00000	.00000	435.40192
2.500	-4.638	-.01470	.00000	.00000	.00000	435.68358
2.500	-2.566	-.01533	.00000	.00000	.00000	435.40192
2.500	-1.521	-.01672	.00000	.00000	.00000	434.81299
2.500	-.473	-.01820	.00000	.00000	.00000	434.58253
2.500	.554	-.01936	.00000	.00000	.00000	434.69914
2.500	1.594	-.02026	.00000	.00000	.00000	434.81299
2.500	3.659	-.02079	.00000	.00000	.00000	434.71955
2.500	5.736	-.02197	.00000	.00000	.00000	435.09465
2.500	7.819	-.02399	.00000	.00000	.00000	435.12026
2.500	9.907	-.02569	.00000	.00000	.00000	434.86420
	GRADIENT	-.00085	.00000	.00000	.00000	-.12121

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.608	-.01359	.00000	.00000	.00000	395.82747
2.860	-8.545	-.01379	.00000	.00000	.00000	395.76970
2.860	-6.457	-.01498	.00000	.00000	.00000	395.92375
2.860	-4.365	-.01720	.00000	.00000	.00000	395.99449
2.860	-2.312	-.01801	.00000	.00000	.00000	395.84672
2.860	-1.270	-.01974	.00000	.00000	.00000	395.98523
2.860	-.238	-.01939	.00000	.00000	.00000	395.90449
2.860	.786	-.01959	.00000	.00000	.00000	395.90449
2.860	1.811	-.02101	.00000	.00000	.00000	395.98151
2.860	3.880	-.02332	.00000	.00000	.00000	395.98151
2.860	5.936	-.02413	.00000	.00000	.00000	395.90449
2.860	8.015	-.02509	.00000	.00000	.00000	395.92375
2.860	10.090	-.02595	.00000	.00000	.00000	395.90077
	GRADIENT	-.00070	.00000	.00000	.00000	-.01379

JOINT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(YH8014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = .000 FLUDER = .000
 SPOBEX = .000 SDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CMW	CSW	CTW	Q (PSF)
3.900	-10.520	-.01192	.00000	.00000	.00000	300.78246
3.900	-8.465	-.01400	.00000	.00000	.00000	300.85463
3.900	-6.432	-.01501	.00000	.00000	.00000	300.96690
3.900	-4.399	-.01745	.00000	.00000	.00000	300.83859
3.900	-2.344	-.01751	.00000	.00000	.00000	300.93432
3.900	-1.326	-.01869	.00000	.00000	.00000	300.89473
3.900	-.307	-.01925	.00000	.00000	.00000	300.90275
3.900	.709	-.01953	.00000	.00000	.00000	300.90275
3.900	1.730	-.01989	.00000	.00000	.00000	300.94284
3.900	3.780	-.02202	.00000	.00000	.00000	300.93492
3.900	5.809	-.02255	.00000	.00000	.00000	300.90275
3.900	7.865	-.02397	.00000	.00000	.00000	300.89671
3.900	9.910	-.02390	.00000	.00000	.00000	300.90275
	GRADIENT	-.00056	.00000	.00000	.00000	.00054

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CMW	CSW	CTW	Q (PSF)
4.600	-9.881	-.01347	.00000	.00000	.00000	235.78397
4.600	-7.875	-.01393	.00000	.00000	.00000	235.56231
4.600	-5.819	-.01566	.00000	.00000	.00000	235.71009
4.600	-3.797	-.01677	.00000	.00000	.00000	235.78397
4.600	-1.772	-.01820	.00000	.00000	.00000	235.78397
4.600	-.744	-.01795	.00000	.00000	.00000	235.48842
4.600	.269	-.01902	.00000	.00000	.00000	235.71009
4.600	1.287	-.01902	.00000	.00000	.00000	235.63620
4.600	2.297	-.01957	.00000	.00000	.00000	235.63620
4.600	4.325	-.01973	.00000	.00000	.00000	235.56231
4.600	6.349	-.02110	.00000	.00000	.00000	235.48842
4.600	8.390	-.02152	.00000	.00000	.00000	235.63620
4.600	10.421	-.02236	.00000	.00000	.00000	235.63620
	GRADIENT	-.00037	.00000	.00000	.00000	-.02430

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH8015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RLODER = .000
 S-DGRK = .000 BDFLAF = .000

RUN NO. O/D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
1.600	-10.640	-.06603	-.05404	-.01283	-.00617	481.05239
1.600	-8.518	-.06517	-.04470	-.00912	-.00553	480.79943
1.600	-6.425	-.06516	-.02545	-.00545	-.00523	480.79943
1.600	-4.632	-.06394	-.00622	-.00158	-.00451	480.71511
1.600	-2.225	-.06546	.02326	.00429	-.00349	481.09456
1.600	-1.172	-.06529	.03531	.00609	-.00252	481.13672
1.600	-.119	-.06599	.04835	.00968	-.00221	481.05239
1.600	.937	-.06568	.06131	.01239	-.00107	481.05239
1.600	1.995	-.06517	.07559	.01530	.00050	481.34752
1.600	4.077	-.06718	.09614	.01935	.00400	481.47400
1.600	6.173	-.06625	.11293	.02274	.00599	481.55832
1.600	8.269	-.06595	.12880	.02597	.00952	481.38968
1.600	10.459	-.06559	.13775	.02784	.01071	481.30536
	GRADIENT	-.00028	.01191	.00245	.00096	.07661

RUN NO. O/D RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CW	CSW	CTW	Q (PSF)
2.000	-10.016	-.06762	-.03710	-.00827	-.00470	474.65578
2.000	-7.935	-.06793	-.02368	-.00575	-.00393	474.72735
2.000	-5.835	-.06751	-.00952	-.00307	-.00313	474.69157
2.000	-4.054	-.06734	.00330	-.00066	-.00245	474.72735
2.000	-1.656	-.06784	.02034	.00274	-.00280	474.94207
2.000	-.626	-.06893	.02922	.00446	-.00239	475.15678
2.000	.436	-.06936	.03705	.00519	-.00259	475.12099
2.000	1.472	-.06895	.04699	.00914	-.00040	475.04942
2.000	2.515	-.06977	.05509	.00996	-.00212	475.12099
2.000	4.606	-.07021	.07691	.01411	.00045	475.15678
2.000	6.694	-.06935	.09951	.01861	.00304	475.12099
2.000	8.810	-.06767	.11223	.02149	.00590	474.97785
2.000	11.021	-.06935	.11437	.02243	.00566	475.29992
	GRADIENT	-.00032	.00951	.00171	.00029	.04438

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/57

(Y48015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RP = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RLODER = .000
 SPDRSK = .000 BDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.500	-10.926	-.01644	.00000	.00000	.00000	435.78601
2.500	-9.835	-.01724	.00000	.00000	.00000	435.59434
2.500	-6.755	-.01564	.00000	.00000	.00000	436.01646
2.500	-4.653	-.01604	.00000	.00000	.00000	435.83722
2.500	-2.590	-.01449	.00000	.00000	.00000	435.19707
2.500	-1.532	-.01685	.00000	.00000	.00000	434.78738
2.500	-.499	-.01680	.00000	.00000	.00000	435.19707
2.500	.542	-.01747	.00000	.00000	.00000	435.60677
2.500	1.582	-.01873	.00000	.00000	.00000	435.29950
2.500	3.648	-.01852	.00000	.00000	.00000	435.14586
2.500	5.718	-.01835	.00000	.00000	.00000	435.73480
2.500	7.809	-.01916	.00000	.00000	.00000	435.79919
2.500	9.891	-.02045	.00000	.00000	.00000	435.73480
	GRADIENT	-.02044	.00000	.00000	.00000	-.03996

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.617	-.01901	.00000	.00000	.00000	395.90449
2.860	-8.553	-.01741	.00000	.00000	.00000	396.36654
2.860	-6.471	-.01773	.00000	.00000	.00000	395.98151
2.860	-4.389	-.01845	.00000	.00000	.00000	396.05854
2.860	-2.331	-.01801	.00000	.00000	.00000	396.03928
2.860	-1.296	-.01909	.00000	.00000	.00000	396.05854
2.860	-.253	-.02026	.00000	.00000	.00000	395.11631
2.860	.771	-.01994	.00000	.00000	.00000	395.15492
2.860	1.795	-.02036	.00000	.00000	.00000	396.27036
2.860	3.861	-.02074	.00000	.00000	.00000	395.13556
2.860	5.927	-.02137	.00000	.00000	.00000	396.09705
2.860	7.999	-.02196	.00000	.00000	.00000	396.21259
2.860	10.073	-.02287	.00000	.00000	.00000	395.99705
	GRADIENT	-.02034	.00000	.00000	.00000	.02000

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UFWT 1098/1119 (1A-44) CONFIGURATION 02/T4/57

(YH8015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPDRK = .000 DEFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.535	-.01812	.00000	.00000	.00000	300.83057
3.900	-8.492	-.01828	.00000	.00000	.00000	300.74236
3.900	-6.457	-.01951	.00000	.00000	.00000	300.99096
3.900	-4.406	-.01957	.00000	.00000	.00000	300.95086
3.900	-2.366	-.01992	.00000	.00000	.00000	300.98294
3.900	-1.345	-.01997	.00000	.00000	.00000	300.86265
3.900	-.319	-.02070	.00000	.00000	.00000	300.98294
3.900	.698	-.02097	.00000	.00000	.00000	300.96690
3.900	1.722	-.02065	.00000	.00000	.00000	300.96690
3.900	3.756	-.02129	.00000	.00000	.00000	300.99898
3.900	5.798	-.02200	.00000	.00000	.00000	300.95096
3.900	7.842	-.02251	.00000	.00000	.00000	301.00700
3.900	9.889	-.02195	.00000	.00000	.00000	300.94284
	GRADIENT	-.00022	.00000	.00000	.00000	.00518

RUN NO. 0/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.500	-9.976	-.01857	.00000	.00000	.00000	233.95036
4.600	-7.859	-.01883	.00000	.00000	.00000	234.17202
4.600	-5.833	-.01917	.00000	.00000	.00000	234.02425
4.500	-3.806	-.02049	.00000	.00000	.00000	234.24591
4.500	-1.778	-.02033	.00000	.00000	.00000	234.24591
4.500	-.759	-.02111	.00000	.00000	.00000	234.24591
4.500	.245	-.02010	.00000	.00000	.00000	234.02425
4.600	1.266	-.02053	.00000	.00000	.00000	234.02425
4.600	2.287	-.02095	.00000	.00000	.00000	234.02425
4.600	4.310	-.02092	.00000	.00000	.00000	234.17202
4.600	6.328	-.02124	.00000	.00000	.00000	234.02425
4.600	8.359	-.02159	.00000	.00000	.00000	234.09814
4.600	10.400	-.02156	.00000	.00000	.00000	234.09814
	GRADIENT	-.00076	.00000	.00000	.00000	-.02254

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(YH8916) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -4.000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.637	-.06789	-.07724	-.01186	-.01607	481.17989
1.600	-8.535	-.06964	-.05937	-.00936	-.01539	481.38968
1.600	-6.422	-.06709	-.03720	-.00433	-.01420	481.09456
1.600	-4.630	-.06745	-.01722	-.00042	-.01399	480.67295
1.600	-2.221	-.06755	.01111	.00527	-.01299	480.63079
1.600	-1.168	-.06641	.02440	.00809	-.01196	481.05239
1.600	-.114	-.06640	.03686	.01091	-.01121	481.30536
1.600	.944	-.06789	.04979	.01342	-.01062	481.43184
1.600	1.998	-.06642	.06276	.01612	-.00992	481.68480
1.600	4.984	-.05726	.08470	.02035	-.00575	482.02209
1.600	6.174	-.06832	.10019	.02355	-.00259	482.14857
1.600	8.275	-.06769	.11501	.02666	.00000	482.31721
1.600	10.460	-.07004	.12415	.02839	.00097	482.19073
	GRADIENT	.00004	.01182	.00243	.00092	.17251

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-9.998	-.07123	-.05174	-.00766	-.01485	475.37149
2.000	-7.925	-.06890	-.03900	-.00515	-.01395	475.51463
2.000	-5.822	-.06997	-.02538	-.00250	-.01359	475.69356
2.000	-4.044	-.07061	-.01265	-.00018	-.01325	475.76513
2.000	-1.648	-.06937	.00409	.00330	-.01517	475.83570
2.000	-.614	-.06894	.01032	.00496	-.01334	475.08521
2.000	.444	-.07009	.01973	.00671	-.01341	475.33570
2.000	1.484	-.06944	.02908	.00956	-.01349	475.37149
2.000	2.528	-.07142	.03842	.01040	-.01286	475.44306
2.000	4.620	-.07094	.05924	.01473	-.01079	475.55041
2.000	6.708	-.07219	.08050	.01994	-.00817	475.76513
2.000	8.811	-.06937	.09210	.02152	-.00593	475.90927
2.000	10.998	-.07009	.09365	.02232	-.00464	475.76513
	GRADIENT	-.00012	.00929	.00171	.00022	-.03099

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UPWT 1098/1119 (IA-44) CONFIGURATION 02/T4/57

(YH9D16) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -4.000 RUDDER = .000
 SPDRK = .000 BDFLAF = .000

RUN NO. 0/ 0 QN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.500	-10.911	-.01729	.00000	.00000	.00000	435.24829
2.500	-8.909	-.01814	.00000	.00000	.00000	435.19707
2.500	-6.722	-.01614	.00000	.00000	.00000	435.45313
2.500	-4.638	-.01775	.00000	.00000	.00000	435.55556
2.500	-2.547	-.01690	.00000	.00000	.00000	435.73480
2.500	-1.516	-.01773	.00000	.00000	.00000	435.78601
2.500	-.484	-.01742	.00000	.00000	.00000	435.86293
2.500	.553	-.01806	.00000	.00000	.00000	435.91404
2.500	1.590	-.01843	.00000	.00000	.00000	435.73480
2.500	3.654	-.01960	.00000	.00000	.00000	435.83722
2.500	5.730	-.01957	.00000	.00000	.00000	436.01646
2.500	7.825	-.02018	.00000	.00000	.00000	436.01646
2.500	9.902	-.01923	.00000	.00000	.00000	436.01646
	GRADIENT	-.00025	.00000	.00000	.00000	.02891

RUN NO. 0/ 0 QN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.612	-.01913	.00000	.00000	.00000	395.51937
2.860	-8.539	-.01846	.00000	.00000	.00000	395.51937
2.860	-6.461	-.01839	.00000	.00000	.00000	395.51937
2.860	-4.367	-.01809	.00000	.00000	.00000	395.42309
2.860	-2.315	-.01974	.00000	.00000	.00000	395.57714
2.860	-1.276	-.01959	.00000	.00000	.00000	395.51937
2.860	-.256	-.01939	.00000	.00000	.00000	395.48086
2.860	.797	-.02036	.00000	.00000	.00000	395.76970
2.860	1.823	-.02046	.00000	.00000	.00000	395.55788
2.860	3.973	-.02117	.00000	.00000	.00000	395.61565
2.860	5.946	-.02186	.00000	.00000	.00000	395.51937
2.860	8.001	-.02205	.00000	.00000	.00000	395.57714
2.860	10.098	-.02100	.00000	.00000	.00000	395.51937
	GRADIENT	-.00034	.00000	.00000	.00000	.02272

UPWT 1988/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH8016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = -4.000 RUDDER = .000
 SFD8RK = .000 BDFLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.517	-.01901	.00000	.00000	.00000	300.75038
3.900	-8.481	-.01907	.00000	.00000	.00000	300.65216
3.900	-6.437	-.01997	.00000	.00000	.00000	300.66216
3.900	-4.380	-.02020	.00000	.00000	.00000	300.74236
3.900	-2.346	-.02040	.00000	.00000	.00000	300.71028
3.900	-1.319	-.02059	.00000	.00000	.00000	300.67820
3.900	-.300	-.02132	.00000	.00000	.00000	300.73434
3.900	.720	-.02075	.00000	.00000	.00000	300.72632
3.900	1.744	-.02134	.00000	.00000	.00000	300.67820
3.900	3.778	-.02146	.00000	.00000	.00000	300.68622
3.900	5.819	-.02223	.00000	.00000	.00000	300.68622
3.900	7.866	-.02268	.00000	.00000	.00000	300.73434
3.900	9.906	-.02228	.00000	.00000	.00000	300.71028
	GRADIENT	-.00016	.00000	.00000	.00000	-.00562

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.895	-.01990	.00000	.00000	.00000	234.48875
4.600	-7.857	-.01851	.00000	.00000	.00000	234.34097
4.600	-5.825	-.01910	.00000	.00000	.00000	234.48875
4.600	-3.793	-.01904	.00000	.00000	.00000	234.34097
4.600	-1.760	-.01972	.00000	.00000	.00000	234.48875
4.600	-.747	-.02043	.00000	.00000	.00000	234.56263
4.600	.272	-.02069	.00000	.00000	.00000	234.56263
4.600	1.278	-.02108	.00000	.00000	.00000	234.85818
4.600	2.304	-.02073	.00000	.00000	.00000	234.63652
4.600	4.336	-.02076	.00000	.00000	.00000	234.56263
4.600	6.355	-.02101	.00000	.00000	.00000	234.48875
4.600	8.388	-.02091	.00000	.00000	.00000	234.56263
4.600	10.421	-.02134	.00000	.00000	.00000	234.71041
	GRADIENT	-.00022	.00000	.00000	.00000	.00458

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(YH8017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 490.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
1.600	-10.635	-.05497	-.07662	-.01108	-.01290	481.60048
1.600	-8.537	-.05420	-.05863	-.00765	-.01255	481.22104
1.600	-6.420	-.06685	-.03866	-.00384	-.01201	480.88375
1.600	-4.621	-.05534	-.01836	.00023	-.01176	480.88375
1.600	-2.222	-.06314	.01023	.00612	-.01028	491.17888
1.600	-1.171	-.06469	.02301	.00875	-.01004	481.13672
1.600	-.106	-.06440	.03613	.01154	-.00939	481.26320
1.600	.935	-.05525	.04957	.01414	-.00836	481.05239
1.600	1.988	-.06605	.06127	.01675	-.00728	481.17888
1.600	4.087	-.06376	.08378	.02114	-.00330	491.22104
1.600	6.171	-.06565	.09911	.02426	-.00025	491.22104
1.600	8.278	-.05447	.11499	.02727	.00202	481.26320
1.600	10.460	-.06277	.12295	.02895	.00317	481.30536
	GRADIENT	.00000	.01183	.00243	.00091	.02865

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.000	-10.025	-.05392	-.05491	-.00738	-.01267	475.87248
2.000	-7.951	-.05739	-.04085	-.00489	-.01192	478.80687
2.000	-5.841	-.06636	-.02647	-.00216	-.01079	478.95002
2.000	-4.054	-.05546	-.01479	.00012	-.01074	474.44107
2.000	-1.665	-.06007	.00299	.00364	-.01070	474.65578
2.000	-.620	-.06666	.01136	.00533	-.01057	475.37149
2.000	.428	-.06646	.02028	.00722	-.01049	475.40727
2.000	1.474	-.06770	.03105	.00925	-.01029	474.90528
2.000	2.524	-.06683	.03987	.01099	-.01041	474.76314
2.000	4.605	-.05612	.06165	.01544	-.00811	474.87049
2.000	6.699	-.06654	.08309	.01978	-.00549	474.90628
2.000	8.797	-.06561	.09606	.02259	-.00278	474.94207
2.000	10.986	-.06545	.09853	.02346	-.00163	475.01364
	GRADIENT	-.00012	.00985	.00177	.00025	.03455

UPWT 1988/1119 (TA-44) CONFIGURATION 02/T4/S7

(YH8017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUBBER = .000
 SFDPRK = .000 BDFLAP = .000

RUN NO. D/ D RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.500	-10.922	-.01424	.00000	.00000	.00000	435.12026
2.500	-8.812	-.01501	.00000	.00000	.00000	434.76177
2.500	-6.728	-.01394	.00000	.00000	.00000	434.76177
2.500	-4.639	-.01439	.00000	.00000	.00000	434.88980
2.500	-2.564	-.01525	.00000	.00000	.00000	435.09465
2.500	-1.523	-.01708	.00000	.00000	.00000	435.04344
2.500	-.487	-.01812	.00000	.00000	.00000	435.22268
2.500	.551	-.01741	.00000	.00000	.00000	435.22268
2.500	1.593	-.01799	.00000	.00000	.00000	435.29950
2.500	3.655	-.01993	.00000	.00000	.00000	435.73480
2.500	5.736	-.02071	.00000	.00000	.00000	435.22268
2.500	7.821	-.02320	.00000	.00000	.00000	435.22268
2.500	9.911	-.02350	.00000	.00000	.00000	435.65799
	GRADIENT	-.00064	.00000	.00000	.00000	.09106

RUN NO. D/ D RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.613	-.01379	.00000	.00000	.00000	395.59639
2.860	-8.545	-.01523	.00000	.00000	.00000	395.82747
2.860	-6.454	-.01655	.00000	.00000	.00000	395.82747
2.860	-4.392	-.01646	.00000	.00000	.00000	396.42440
2.860	-2.306	-.01883	.00000	.00000	.00000	396.32912
2.860	-1.276	-.01997	.00000	.00000	.00000	396.17409
2.860	-.244	-.01975	.00000	.00000	.00000	396.11631
2.860	.789	-.02033	.00000	.00000	.00000	396.19333
2.860	1.820	-.02150	.00000	.00000	.00000	396.32812
2.860	3.867	-.02163	.00000	.00000	.00000	396.23184
2.860	5.939	-.02359	.00000	.00000	.00000	396.13556
2.860	8.012	-.02456	.00000	.00000	.00000	396.19333
2.860	10.095	-.02387	.00000	.00000	.00000	396.21259
	GRADIENT	-.00063	.00000	.00000	.00000	-.01739

UPWT 1089/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH0017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHRF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SFDRCK = .000 BFLAP = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.520	-.01643	.00000	.00000	.00000	301.32777
3.900	-8.485	-.01721	.00000	.00000	.00000	300.95088
3.900	-6.439	-.01821	.00000	.00000	.00000	300.82255
3.900	-4.392	-.01925	.00000	.00000	.00000	300.82255
3.900	-2.355	-.02051	.00000	.00000	.00000	300.82255
3.900	-1.330	-.02049	.00000	.00000	.00000	300.79849
3.900	-.311	-.02008	.00000	.00000	.00000	300.76642
3.900	.714	-.02172	.00000	.00000	.00000	300.80651
3.900	1.737	-.02085	.00000	.00000	.00000	300.75038
3.900	3.777	-.02233	.00000	.00000	.00000	300.79849
3.900	5.817	-.02256	.00000	.00000	.00000	300.74236
3.900	7.859	-.02337	.00000	.00000	.00000	300.87969
3.900	9.899	-.02349	.00000	.00000	.00000	300.82255
	GRADIENT	-.00033	.00000	.00000	.00000	-.00342

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.500	-9.884	-.01690	.00000	.00000	.00000	235.26091
4.600	-7.870	-.01782	.00000	.00000	.00000	235.48247
4.600	-5.827	-.01789	.00000	.00000	.00000	235.26091
4.600	-3.795	-.01909	.00000	.00000	.00000	235.26091
4.600	-1.774	-.01948	.00000	.00000	.00000	235.18692
4.600	-.752	-.01897	.00000	.00000	.00000	235.11303
4.500	.275	-.01958	.00000	.00000	.00000	235.11303
4.600	1.285	-.02092	.00000	.00000	.00000	235.33470
4.600	2.301	-.02034	.00000	.00000	.00000	235.18692
4.600	4.327	-.02072	.00000	.00000	.00000	235.26091
4.600	6.359	-.02150	.00000	.00000	.00000	235.33470
4.600	8.384	-.02137	.00000	.00000	.00000	235.18692
4.600	10.412	-.02224	.00000	.00000	.00000	235.40959
	GRADIENT	-.00024	.00000	.00000	.00000	.00519

UPWT 3099/1119 (TA-44) CONFIGURATION T4

(YH8010) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ-FT. XHRF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHRF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CSW	CSW	CTW	Q (PSF)
2.860	-10.116	-.00105	.00000	.00000	.00000	395.65416
2.860	-8.098	-.00049	.00000	.00000	.00000	395.98151
2.860	-6.072	-.00029	.00000	.00000	.00000	396.03928
2.860	-4.051	.00005	.00000	.00000	.00000	395.98523
2.860	-2.027	.00012	.00000	.00000	.00000	396.09705
2.860	-1.019	.00069	.00000	.00000	.00000	395.13556
2.860	.004	-.00064	.00000	.00000	.00000	396.09705
2.860	1.006	.00026	.00000	.00000	.00000	395.50011
2.860	2.025	.00039	.00000	.00000	.00000	395.39458
2.860	4.045	.00042	.00000	.00000	.00000	395.73119
2.860	6.070	.00059	.00000	.00000	.00000	395.53963
2.860	8.096	.00096	.00000	.00000	.00000	395.23184
2.860	10.120	.00090	.00000	.00000	.00000	395.98151
	GRADIENT	.00001	.00000	.00000	.00000	-.06295

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CSW	CSW	CTW	Q (PSF)
4.600	-9.478	-.00143	.00000	.00000	.00000	235.89214
4.600	-7.459	-.00134	.00000	.00000	.00000	235.75935
4.600	-5.454	-.00094	.00000	.00000	.00000	235.75935
4.600	-3.441	-.00092	.00000	.00000	.00000	235.59296
4.600	-1.435	-.00059	.00000	.00000	.00000	235.75935
4.600	-.421	-.00081	.00000	.00000	.00000	235.92575
4.600	.577	-.00034	.00000	.00000	.00000	235.59296
4.600	1.596	-.00069	.00000	.00000	.00000	235.82575
4.600	2.603	-.00015	.00000	.00000	.00000	235.75935
4.600	4.605	-.00009	.00000	.00000	.00000	235.75935
4.600	6.619	-.00006	.00000	.00000	.00000	235.59296
	GRADIENT	.00010	.00000	.00000	.00000	.00530

UPWT 1088/1119 (IA-44) CONFIGURATION T4

(YH8019) (23 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 975.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000

RUN NO. D/ D RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
2.860	-10.133	-.00082	.00000	.00000	.00000	395.80821
2.860	-8.119	-.00128	.00000	.00000	.00000	396.07769
2.860	-6.082	-.00638	.00000	.00000	.00000	395.23184
2.860	-4.052	-.00952	.00000	.00000	.00000	395.94300
2.860	-2.010	-.01070	.00000	.00000	.00000	395.90449
2.860	.001	-.01191	.00000	.00000	.00000	395.84672
2.860	2.013	-.01190	.00000	.00000	.00000	395.96226
2.860	4.045	-.01403	.00000	.00000	.00000	396.15482
2.860	6.094	-.01172	.00000	.00000	.00000	395.98151
2.860	8.124	-.01023	.00000	.00000	.00000	396.07780
2.860	10.241	-.00123	.00000	.00000	.00000	396.07780
	GRADIENT	-.00051	.00000	.00000	.00000	.02380

RUN NO. D/ D RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CNW	CSW	CTW	Q (PSF)
4.600	-10.066	.58030	.00000	.00000	.00000	235.82575
4.600	-8.067	.57594	.00000	.00000	.00000	235.75935
4.600	-6.063	.57291	.00000	.00000	.00000	235.69295
4.600	-4.011	.57891	.00000	.00000	.00000	235.75935
4.600	-2.999	.57706	.00000	.00000	.00000	235.75935
4.600	.000	.57439	.00000	.00000	.00000	235.56017
4.600	1.982	.58041	.00000	.00000	.00000	235.62656
4.600	4.059	.58521	.00000	.00000	.00000	235.69296
4.600	6.056	.58552	.00000	.00000	.00000	235.69296
4.600	8.091	.58643	.00000	.00000	.00000	235.69296
4.600	10.171	.58819	.00000	.00000	.00000	235.75935
	GRADIENT	.00090	.00000	.00000	.00000	-.01310

WPT 1088/1119 (IA-44) CONFIGURATION 02/74

(YH0020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 SLOOER = .000
 SFDRK = .000 BDFLAT = .000

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.500	-10.702	-.00050	-.07951	-.01050	-.01306	435.27389
2.500	-8.648	.00201	-.06732	-.00836	-.01247	435.24829
2.500	-6.581	.00253	-.05518	-.00616	-.01180	435.45313
2.500	-4.536	.00342	-.04200	-.00387	-.01125	435.37631
2.500	-2.502	.00302	-.02969	-.00148	-.01052	435.40192
2.500	-1.463	.00147	-.02267	-.00022	-.01043	436.19570
2.500	-.450	.00238	-.01620	.00105	-.01014	435.52995
2.500	.567	.00403	-.00915	.00247	-.00978	435.37631
2.500	1.601	.00304	-.00291	.00378	-.00976	435.17147
2.500	3.649	.00273	.01291	.00678	-.00880	435.27389
2.500	5.697	.00423	.02641	.00973	-.00783	435.32510
2.500	7.739	.00214	.04081	.01267	-.00711	435.70919
2.500	9.794	.00082	.05387	.01561	-.00650	435.70919
	GRADIENT	-.00000	.00666	.00130	.00028	-.03921

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
2.860	-10.448	-.00103	-.06936	-.00865	-.01322	395.59771
2.860	-8.400	-.00005	-.05032	-.00709	-.01267	395.36532
2.860	-6.347	.00026	-.03035	-.00538	-.01212	395.30755
2.860	-4.296	-.00032	-.04187	-.00370	-.01166	395.36532
2.860	-2.259	-.00059	-.03114	-.00184	-.01122	395.42309
2.860	-1.243	-.00059	-.02570	-.00083	-.01099	395.34607
2.860	-.231	.00014	-.02031	.00022	-.01045	395.57714
2.860	.791	.00007	-.01405	.00133	-.00931	395.69267
2.860	1.821	.00009	-.00804	.00256	-.00993	395.80821
2.860	3.853	-.00033	.00432	.00498	-.00872	395.73112
2.860	5.901	-.00050	.01679	.00753	-.00804	395.80921
2.860	7.939	-.00112	.03092	.01029	-.00701	395.82747
2.860	9.982	-.00151	.04368	.01301	-.00634	395.78895
	GRADIENT	.00005	.00567	.00107	.00035	.06031

UPWT 1000/1119 (1A-44) CONFIGURATION CR/T4

(YH9020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 SOFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.429	-.00232	-.06034	-.00654	-.01499	300.38951
3.900	-8.399	-.00219	-.05662	-.00572	-.01540	300.12487
3.900	-6.377	-.00228	-.05299	-.00498	-.01534	300.20506
3.900	-4.348	-.00201	-.04780	-.00363	-.01488	300.82255
3.900	-2.319	-.00245	-.04205	-.00247	-.01448	300.91077
3.900	-1.301	-.00335	-.03874	-.00186	-.01475	300.70226
3.900	-.295	-.00246	-.03511	-.00122	-.01465	300.81453
3.900	.721	-.00252	-.03313	-.00050	-.01435	300.79949
3.900	1.741	-.00288	-.02913	.00030	-.01408	300.99096
3.900	3.760	-.00249	-.02044	.00206	-.01316	300.95898
3.900	5.789	-.00250	-.01112	.00390	-.01259	300.88671
3.900	7.816	-.00160	-.00235	.00589	-.01212	300.88671
3.900	9.845	-.00230	.00514	.00770	-.01203	300.91878
	GRADIENT	-.00004	.00331	.00070	.00019	.01884

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.827	-.00031	-.07998	-.00647	-.02399	235.29794
4.600	-7.816	-.00029	-.07777	-.00572	-.02315	234.82317
4.600	-5.794	-.00092	-.07140	-.00474	-.02242	235.08975
4.600	-3.767	-.00054	-.06551	-.00330	-.02173	234.88957
4.600	-1.752	-.00033	-.06116	-.00226	-.02123	234.88957
4.600	-.735	-.00097	-.05765	-.00171	-.02095	235.02236
4.600	.265	-.00041	-.05455	-.00103	-.02027	234.75678
4.600	1.279	-.00089	-.05225	-.00050	-.02022	234.88957
4.600	2.294	-.00100	-.04958	-.00006	-.02074	235.15515
4.600	4.307	-.00051	-.04351	.00129	-.02006	234.95596
4.600	6.327	.00003	-.03652	.00285	-.01911	234.95596
4.600	8.349	-.00016	-.02916	.00450	-.01890	234.75678
4.600	10.372	-.00026	-.02178	.00616	-.01965	235.02236
	GRADIENT	-.00004	.00274	.00057	.00020	.01571

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4

(YH8021) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.0000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.0000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. D/D RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CW	CSW	CTW	Q (PSF)
2.860	-10.396	-.22371	-.01105	.00170	-.00727	395.82747
2.860	-8.256	-.23269	-.01135	.00150	-.00716	395.11631
2.860	-6.190	-.22265	-.01313	.00107	-.00775	395.98151
2.860	-4.111	-.22249	-.01635	.00063	-.00861	396.02003
2.860	-2.020	-.21991	-.02010	.00016	-.00995	395.94300
2.860	-.019	-.21899	-.01987	.00020	-.01046	395.05954
2.860	2.040	-.21920	-.01890	.00037	-.01109	395.98151
2.860	4.119	-.21625	-.01898	.00057	-.01143	395.90449
2.860	6.197	-.22010	-.01735	.00094	-.01182	395.28961
2.860	8.262	-.22175	-.01461	.00161	-.01195	396.25110
2.860	10.372	-.22691	-.01388	.00224	-.01275	396.07790
	GRADIENT	.00064	-.00019	.00000	-.00032	-.00948

RUN NO. D/D RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CW	CSW	CTW	Q (PSF)
3.900	-10.203	-.27881	-.03430	-.00039	-.01308	301.09521
3.900	-8.161	-.28431	-.03575	-.00054	-.01313	300.87869
3.900	-6.133	-.28893	-.03513	-.00068	-.01316	300.87067
3.900	-4.076	-.29594	-.03695	-.00100	-.01429	300.93959
3.900	-2.023	-.29223	-.03964	-.00119	-.01482	301.03908
3.900	-.020	-.28919	-.04031	-.00115	-.01558	300.91878
3.900	2.003	-.29873	-.03903	-.00081	-.01577	300.42158
3.900	4.065	-.28562	-.03787	-.00048	-.01649	300.42960
3.900	6.123	-.28451	-.03698	.00002	-.01685	300.57395
3.900	8.153	-.29703	-.03628	.00063	-.01700	300.67018
3.900	10.288	-.29442	-.03394	.00131	-.01743	300.74236
	GRADIENT	.00019	-.00006	.00007	-.00026	-.07057

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (TA-44) CONFIGURATION 02/14

(YH8021) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 OREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SDBRK = .000 SDBLAF = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	ALPHA	CW	CSW	CTW	Q (FSF)
4.600	-10.135	.26484	-.05315	-.00074	-.01932	235.02236
4.600	-8.139	.26131	-.05232	-.00092	-.01934	235.15515
4.600	-6.094	.26816	-.05182	-.00099	-.01895	235.02236
4.600	-4.055	.26690	-.05212	-.00112	-.01949	235.08875
4.600	-2.012	.26796	-.05525	-.00125	-.01980	234.89957
4.600	-.019	.27207	-.05327	-.00104	-.02002	235.02236
4.600	2.013	.27309	-.05091	-.00068	-.02012	235.02236
4.600	4.045	.27616	-.05055	-.00044	-.02098	235.08875
4.600	6.095	.26915	-.04996	-.00001	-.02143	235.08875
4.600	8.143	.26794	-.04505	.00077	-.02105	235.08875
4.600	10.236	.26895	-.04485	.00139	-.02168	235.02236
	GRADIENT	.00117	.00037	.00010	-.00016	.00652

UPWT 1088/1119 (IA-44) CONFIGURATION 32/74/57

(YH8022) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 Sq.-FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 SDBLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CBW	CTW	Q (PSF)
2.000	-10.004	-.06639	-.05851	-.00774	-.01098	475.51463
2.000	-7.928	-.06741	-.04623	-.00539	-.01035	475.37149
2.000	-5.833	-.06685	-.03266	-.00279	-.00999	475.04942
2.000	-4.042	-.06759	-.02009	-.00041	-.00993	475.04942
2.000	-1.662	-.06631	-.00337	.00304	-.00971	475.12099
2.000	-.604	-.06814	.00548	.00474	-.00990	475.15678
2.000	.441	-.06793	.01420	.00658	-.01002	475.19256
2.000	1.477	-.06759	.02304	.00844	-.00972	475.15678
2.000	2.519	-.06738	.03225	.01028	-.00950	475.40727
2.000	4.605	-.06746	.05327	.01482	-.00739	475.12099
2.000	6.699	-.06884	.07652	.01902	-.00471	475.37149
2.000	8.807	-.06867	.08959	.02154	-.00245	475.33570
2.000	10.993	-.06939	.09970	.02242	-.00129	475.47884
	GRADIENT	-.00002	.00865	.00175	.00024	.01932

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1098/1119 (IA-44) CONFIGURATION 02/14/57

(YH9023) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SPOBRK = .000 SDFLAF = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	QW	CSW	CTW	Q (PSF)
1.600	-10.468	-.13501	-.00528	.00520	-.00122	492.14857
1.600	-8.447	-.12768	.00779	.00744	-.00173	491.09456
1.600	-6.337	-.12913	.01411	.00953	-.00295	491.34752
1.600	-4.236	-.13125	.01942	.00949	-.00441	491.69480
1.600	-2.143	-.13932	.01678	.00941	-.00694	491.39969
1.600	-.067	-.12315	.02503	.01053	-.00869	491.47400
1.600	2.012	-.12561	.02909	.01052	-.01028	491.60048
1.600	4.169	-.11719	.03275	.01119	-.01076	491.64264
1.600	6.199	-.12690	.03481	.01147	-.01122	490.79943
1.600	8.313	-.13211	.03673	.01180	-.01164	491.13672
1.600	10.477	-.12962	.04350	.01310	-.01126	491.05239
	GRADIENT	.00200	.00181	.00022	-.00076	.00609

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	QW	CSW	CTW	Q (PSF)
2.000	-10.457	.42320	.00604	.00550	-.00395	475.76513
2.000	-8.372	.43415	.01274	.00640	-.00404	475.72934
2.000	-6.305	.43184	.01344	.00673	-.00521	474.83471
2.000	-4.215	.43547	.01434	.00703	-.00699	474.76314
2.000	-2.127	.43359	.01016	.00634	-.00885	475.19256
2.000	-.071	.43827	.01432	.00650	-.00946	475.19256
2.000	2.022	.43500	.01558	.00652	-.01004	475.22935
2.000	4.092	.43489	.02010	.00686	-.01027	475.09521
2.000	6.173	.43994	.02221	.00699	-.01071	475.19256
2.000	8.239	.44094	.02681	.00771	-.01099	475.19256
2.000	10.429	.44790	.03329	.00896	-.01157	475.09521
	GRADIENT	.00001	.00085	-.00001	-.00039	.03284

URWT 1088/1119 (1A-44) CONFIGURATION 02/14/57

(YH8024) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -9.000 RUDDER = .000
 SPOBRK = .000 SDPLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (FSF)
2.500	-10.921	-.00312	-.03738	-.00547	-.01119	434.96662
2.500	-8.818	-.00136	-.02577	-.00369	-.01034	434.91541
2.500	-6.733	-.00050	-.01657	-.00190	-.00969	434.96662
2.500	-4.641	.00059	-.00781	-.00015	-.00956	434.94102
2.500	-2.562	.00187	.00075	.00148	-.00957	434.71056
2.500	-1.526	.00144	.00459	.00230	-.00906	434.86420
2.500	-.495	.00210	.00769	.00298	-.00905	434.91541
2.500	.544	.00184	.01099	.00367	-.00943	434.76177
2.500	1.587	.00212	.01450	.00435	-.00957	435.60677
2.500	3.651	.00339	.02699	.00690	-.00924	435.14596
2.500	5.724	.00172	.04136	.00949	-.00975	435.22268
2.500	7.809	.00161	.05530	.01244	-.00947	435.22268
2.500	9.897	.00158	.06382	.01489	-.00912	435.17147
	GRADIENT	.00029	.00398	.00090	.00002	.05769

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (FSF)
2.860	-10.618	-.00303	-.03105	-.00418	-.01125	395.71193
2.860	-8.533	-.00287	-.02499	-.00304	-.01094	395.86598
2.860	-6.462	-.00099	-.01887	-.00181	-.01045	395.98151
2.860	-4.387	-.00010	-.01257	-.00056	-.00983	395.96226
2.860	-2.315	-.00031	-.00778	.00045	-.00950	395.90449
2.860	-1.282	-.00119	-.00565	.00092	-.00999	395.92375
2.860	-.257	-.00048	-.00255	.00152	-.00985	396.13556
2.860	.775	.00026	.00044	.00215	-.00966	396.23184
2.860	1.813	-.00030	.00357	.00283	-.00991	396.17408
2.860	3.864	-.00012	.01392	.00478	-.00960	396.38599
2.860	5.930	-.00119	.02489	.00694	-.00935	396.34738
2.860	8.000	-.00111	.03343	.00987	-.00942	396.13556
2.860	10.079	-.00040	.04208	.01090	-.00914	396.53994
	GRADIENT	.00003	.00311	.00063	.00003	.05963

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(YH9024) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 Sq.Ft. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPOBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
3.900	-10.526	-.00152	-.04322	-.00357	-.01695	300.77444
3.900	-8.485	-.00186	-.04440	-.00339	-.01901	300.69424
3.900	-6.437	-.00180	-.04408	-.00309	-.01802	300.75840
3.900	-4.395	-.00159	-.04142	-.00227	-.01826	300.71830
3.900	-2.359	-.00109	-.03938	-.00159	-.01815	300.63009
3.900	-1.335	-.00123	-.03803	-.00116	-.01832	300.61405
3.900	-.320	-.00075	-.03732	-.00063	-.01835	300.79047
3.900	.705	-.00076	-.03562	-.00013	-.01832	300.75940
3.900	1.728	-.00080	-.03348	.00045	-.01820	300.73434
3.900	3.763	-.00113	-.02810	.00160	-.01812	300.68622
3.900	5.806	-.00076	-.02296	.00302	-.01792	300.72632
3.900	7.852	-.00079	-.01895	.00409	-.01811	300.68622
3.900	9.896	-.00009	-.01675	.00513	-.01877	300.74236
	GRADIENT	.00007	.00158	.00048	.00001	.00524

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CNW	CSW	CTW	Q (PSF)
4.600	-9.899	-.00151	-.06120	-.00413	-.02367	235.29222
4.600	-7.871	-.00093	-.06156	-.00397	-.02323	235.15943
4.600	-5.834	-.00091	-.05897	-.00350	-.02239	235.22582
4.600	-3.802	-.00076	-.05596	-.00256	-.02184	235.09303
4.600	-1.771	-.00129	-.05244	-.00191	-.02169	235.29222
4.600	-.755	-.00093	-.04987	-.00141	-.02099	235.09303
4.600	.261	-.00077	-.04770	-.00092	-.02066	235.15943
4.600	1.274	-.00028	-.04576	-.00045	-.01992	235.02654
4.600	2.284	-.00010	-.04352	.00004	-.01973	235.09303
4.600	4.319	-.00090	-.03941	.00087	-.01976	235.22582
4.600	6.351	-.00077	-.03536	.00192	-.01996	235.09303
4.600	8.385	-.00032	-.02966	.00296	-.01965	235.15943
4.600	10.415	-.00047	-.02457	.00391	-.01919	235.22582
	GRADIENT	.00005	.00207	.00044	.00031	.00156

UPWT 1088/1119 (IA-44) CONFIGURATION T4/S7

(RH0001) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SFB = 1.000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CO	L/D
1.600	-10.222	-.04816	-.49592	.29140	.11126	.01505	-.00587	-.00140	-.43634	.37478	-1.16427
1.600	-8.158	-.04730	-.37710	.29027	.08330	.01260	-.00440	-.00075	-.33210	.34084	-.97434
1.600	-6.089	-.04693	-.27699	.28603	.06755	.01160	-.00387	-.00049	-.24509	.31380	-.78103
1.600	-4.340	-.04599	-.20153	.29272	.05685	.00997	-.00315	-.00036	-.17956	.29716	-.60425
1.600	-1.973	-.04607	-.11344	.27752	.04621	.00990	-.00311	-.00039	-.10302	.28126	-.36913
1.600	-.939	-.04629	-.07458	.27595	.03790	.01073	-.00381	-.00039	-.07005	.27714	-.25275
1.600	.088	-.04558	-.03666	.27779	.03039	.00994	-.00369	-.00045	-.03709	.27773	-.13355
1.600	1.126	-.04507	.00844	.27738	.02171	.00975	-.00394	-.00026	.00299	.27750	.01076
1.600	2.160	-.04517	.03026	.27719	.01221	.01015	-.00423	-.00027	.03978	.27889	.14263
1.600	4.226	-.04433	.12447	.27982	.00335	.00963	-.00439	.00002	.10351	.28823	.35911
1.600	6.310	-.04347	.21646	.29144	-.01154	.00897	-.00432	.00021	.18422	.30353	.60692
1.600	8.390	-.04228	.32677	.29173	-.03249	.00729	-.00372	.00045	.28217	.32639	.86450
1.600	10.558	-.04401	.45726	.29130	-.05787	.00921	-.00392	.00116	.39797	.36032	1.10449
GRADIENT		.00013	.03843	-.00025	-.00667	.00005	-.00016	.00004	.03345	-.00097	.11513

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CO	L/D
2.000	-9.672	-.06160	-.45520	.25448	.11952	.00729	-.00191	-.00069	-.40597	.32733	-1.24025
2.000	-7.637	-.06145	-.34063	.25276	.09475	.00565	-.00090	-.00065	-.30402	.29579	-1.02783
2.000	-5.591	-.06074	-.23657	.24969	.05860	.00396	-.00023	-.00037	-.21112	.27155	-.77745
2.000	-3.822	-.06120	-.15310	.24823	.04677	.00476	-.00052	-.00035	-.14519	.25955	-.55543
2.000	-1.470	-.06251	-.07812	.24473	.03461	.00651	-.00099	.00001	-.07181	.24666	-.29114
2.000	-.445	-.06130	-.04374	.24352	.02739	.00478	-.00026	-.00001	-.04185	.24385	-.17163
2.000	.592	-.06106	-.00515	.24393	.01609	.00516	-.00078	-.00012	-.00767	.24376	-.03147
2.000	1.609	-.06171	.03015	.24669	.00884	.00597	-.00089	-.00009	.02321	.24744	.09380
2.000	2.630	-.06133	.06559	.24844	.00301	.00599	-.00124	-.00002	.05510	.25123	.21934
2.000	4.737	-.06061	.13993	.25015	-.00739	.00479	-.00117	-.00041	.11879	.25085	.45539
2.000	6.762	-.06149	.23199	.24933	-.02693	.00474	-.00076	.00042	.20102	.27491	.73118
2.000	8.843	-.06137	.33673	.24703	-.05566	.00497	-.00133	.00093	.29475	.29596	.99624
2.000	11.052	-.06144	.46012	.24375	-.09522	.00526	-.00202	.00119	.45496	.32744	1.23644
GRADIENT		.00009	.03541	.00039	-.00670	.00001	-.00009	-.00001	.03099	.00043	.12066

UPWT 1088/1119 (1A-44) CONFIGURATION T4/S7

(RHO001) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CL4	Cy	CYN	CSL	CL	CD	L/D
2.500	-10.503	-.01792	-.46325	.22130	.13167	.00205	-.00236	-.00043	-.41515	.30204	-1.37432
2.500	-8.439	-.01717	-.35523	.21874	.09551	.00121	-.00217	-.00027	-.31930	.26651	-1.18916
2.500	-6.376	-.01745	-.25456	.21761	.06489	.00270	-.00322	-.00016	-.22882	.24453	-.93575
2.500	-4.320	-.01649	-.17298	.21577	.04674	.00074	-.00275	-.00016	-.15614	.22818	-.68427
2.500	-2.264	-.01679	-.09619	.21441	.03283	-.00035	-.00195	-.00016	-.08764	.21804	-.40196
2.500	-1.240	-.01752	-.05335	.21350	.02752	.00042	-.00193	-.00012	-.05871	.21482	-.27331
2.500	-.209	-.01742	-.02576	.21385	.01852	-.00026	-.00131	-.00018	-.02498	.21394	-.11677
2.500	.912	-.01750	.01161	.21482	.00795	.00019	-.00159	-.00025	.00857	.21497	.03994
2.500	1.940	-.01650	.04513	.21652	.00091	-.00095	-.00149	-.00037	.03815	.21785	.17512
2.500	3.887	-.01502	.11511	.21843	-.01238	-.00114	-.00180	-.00050	.10008	.22573	.44316
2.500	5.949	-.01655	.20275	.22007	-.03232	.00066	-.00310	-.00015	.17885	.23990	.74554
2.500	8.007	-.01588	.30034	.21908	-.06247	.00065	-.00367	.00091	.26690	.25878	1.03138
2.500	10.075	-.01556	.40726	.21787	-.09917	-.00073	-.00259	.00023	.36287	.28576	1.26986
	GRADIENT	.00006	.03503	.00039	-.00742	-.00020	.00012	-.00004	.03118	-.00023	.13872

RUN NO. 0/0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CL4	Cy	CYN	CSL	CL	CD	L/D
2.860	-10.251	-.01871	-.43746	.20648	.12979	.00404	-.00345	-.00071	-.39373	.28103	-1.40102
2.860	-8.200	-.01871	-.34054	.20344	.09865	.00346	-.00278	-.00046	-.30804	.24993	-1.23249
2.860	-6.147	-.01803	-.24784	.20095	.06897	.00281	-.00277	-.00033	-.22491	.22623	-.99416
2.860	-4.091	-.01910	-.16195	.20079	.04603	.00356	-.00268	-.00012	-.14721	.21183	-.69494
2.860	-2.049	-.01880	-.09144	.19942	.03191	.00134	-.00167	-.00017	-.08425	.20256	-.41593
2.860	-1.020	-.01945	-.05910	.19861	.02620	.00055	-.00122	-.00030	-.05553	.19964	-.27816
2.860	.001	-.01849	-.02459	.19898	.01760	.00010	-.00067	-.00025	-.02460	.19988	-.12368
2.860	1.019	-.01899	.01419	.20040	.00640	.00123	-.00115	-.00012	.01053	.20062	.05298
2.860	2.039	-.01802	.04524	.20268	-.00073	.00039	-.00130	-.00036	.03800	.20416	.19612
2.860	4.082	-.01694	.11522	.20400	-.01489	-.00032	-.00199	-.00040	.10041	.21169	.47434
2.860	6.140	-.01742	.20167	.20452	-.03620	.00059	-.00244	-.00001	.17850	.22521	.79305
2.860	8.183	-.01637	.28838	.20200	-.06318	-.00061	-.00223	-.00009	.25659	.24100	1.06512
2.860	10.241	-.01579	.39620	.20070	-.09489	-.00093	-.00246	-.00013	.34437	.26517	1.29390
	GRADIENT	.00023	.03392	.00049	-.00765	-.00039	.00011	-.00003	.03032	.00009	.14478

UPWT 1088/1119 (IA-44) CONFIGURATION T4/S7

(RH8001) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000
 SRB = 1.000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CB	CL	CD	L/D
3.900	-10.109	-.01967	-.36263	.15528	.10482	.00306	-.00105	-.00074	-.32799	.22637	-1.44891
3.900	-8.073	-.01984	-.29512	.16306	.08102	.00505	-.00236	-.00049	-.25939	.20149	-1.28738
3.900	-6.046	-.01928	-.21205	.16209	.05923	.00455	-.00271	-.00032	-.19379	.18353	-1.05595
3.900	-4.008	-.01952	-.14651	.16263	.04234	.00370	-.00227	-.00060	-.13480	.17247	-.78157
3.900	-1.984	-.01933	-.09539	.16361	.02852	.00280	-.00175	-.00098	-.07966	.16646	-.47857
3.900	-.970	-.01909	-.05774	.16204	.02281	.00166	-.00161	-.00097	-.05499	.16299	-.33738
3.900	.040	-.01957	-.02709	.16178	.01607	.00311	-.00222	-.00071	-.02723	.16176	-.16835
3.900	1.050	-.01980	.00317	.16306	.00592	.00157	-.00174	-.00081	.00017	.16309	.00102
3.900	2.077	-.01864	.03382	.16528	.00044	.00173	-.00201	-.00069	.02781	.16549	.16712
3.900	4.104	-.01904	.09717	.16647	-.01380	.00213	-.00199	-.00074	.08500	.17299	.49136
3.900	6.130	-.01910	.16609	.16550	-.03226	.00209	-.00201	-.00078	.14745	.19231	.80878
3.900	8.170	-.01894	.24073	.16478	-.05461	.00241	-.00257	-.00067	.21487	.19732	1.08994
3.900	10.208	-.01854	.31973	.16499	-.07941	.00111	-.00165	-.00047	.29546	.21892	1.30397
	GRADIENT	.00011	.02992	.00046	-.00697	-.00020	.00001	.00002	.02699	.00005	.15784

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CB	CL	CD	L/D
4.600	-9.544	-.01977	-.33539	.15451	.09130	.00469	-.00189	-.00127	-.30512	.20798	-1.46707
4.600	-7.519	-.01954	-.26276	.15097	.07021	.00456	-.00200	-.00120	-.24076	.18404	-1.30819
4.600	-5.498	-.01909	-.19549	.14935	.05261	.00398	-.00195	-.00112	-.18031	.16736	-1.07734
4.600	-3.464	-.01984	-.13045	.14963	.03757	.00437	-.00201	-.00112	-.12117	.15724	-.77061
4.600	-1.443	-.01951	-.07903	.14675	.02702	.00307	-.00232	-.00141	-.07531	.14869	-.50648
4.600	-.433	-.01929	-.04939	.14629	.02115	.00323	-.00276	-.00118	-.04829	.14665	-.32920
4.600	.573	-.01866	-.02384	.14584	.01461	.00179	-.00238	-.00138	-.02529	.14560	-.17373
4.600	1.587	-.01907	.00567	.14713	.00776	.00361	-.00325	-.00123	.00159	.14723	.01082
4.600	2.601	-.01910	.03703	.14923	.00081	.00383	-.00330	-.00135	.03022	.15076	.20044
4.600	4.615	-.01990	.09754	.14991	-.00959	.00264	-.00270	-.00167	.07528	.15547	.48417
4.600	6.645	-.01909	.15459	.14774	-.02916	.00202	-.00195	-.00136	.13644	.16464	.82971
4.600	8.654	-.01955	.21793	.14665	-.04739	.00132	-.00195	-.00156	.19336	.17781	1.09744
4.600	10.698	-.01919	.29418	.14920	-.06957	.00294	-.00232	-.00130	.26137	.20121	1.29896
	GRADIENT	.00011	.02732	.00007	-.00500	-.00012	-.00012	-.00005	.02467	-.00005	.15964

UPWT 1080/1119 (IA-44) CONFIGURATION T4/S7

(RH8002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SFB = 1.000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CL4	CY	CYN	CSL	CL	CS	L/D
1.600	-10.220	.09911	-.03006	.29041	.02914	.19001	-.02500	-.00018	-.03056	.29035	-.10526
1.600	-8.204	.09419	-.03250	.29632	.02835	.14733	-.01956	-.00039	-.03297	.28626	-.11519
1.600	-6.164	.09284	-.03281	.28445	.02842	.11262	-.01699	-.00039	-.03327	.28440	-.11698
1.600	-4.124	.09001	-.03609	.29216	.03134	.07931	-.01503	-.00020	-.03734	.28210	-.13235
1.600	-2.044	.09098	-.03315	.28010	.03075	.04731	-.01147	-.00027	-.03360	.28005	-.11998
1.600	-.065	.09267	-.03369	.27729	.02969	.01114	-.00406	-.00030	-.03413	.27723	-.12311
1.600	1.974	.08789	-.03719	.27557	.03009	-.02366	.00184	-.00040	-.03761	.27651	-.13602
1.600	4.029	.09627	-.03874	.27790	.02998	-.05961	.00618	-.00043	-.03916	.27785	-.14094
1.600	6.083	.09063	-.04031	.28033	.02763	-.09105	.00964	-.00039	-.04071	.28028	-.14523
1.600	8.120	.08709	-.03646	.28337	.02575	-.12653	.01094	.00024	-.03699	.28332	-.13022
1.600	10.269	.08112	-.04098	.28478	.02597	-.17093	.01750	.00000	-.04129	.28472	-.14500
	GRADIENT	-.00052	-.00039	-.00059	-.00027	-.01706	.00274	-.00003	-.00037	-.00059	-.00163

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CL4	CY	CYN	CSL	CL	CS	L/D
2.000	-10.223	.59728	-.00559	.25514	.01717	.18950	-.02553	.00059	-.00825	.25506	-.03234
2.000	-8.219	.60107	-.00482	.25265	.01692	.14861	-.02056	.00053	-.00747	.25259	-.02956
2.000	-6.178	.57919	-.00230	.25097	.01554	.11311	-.01779	.00052	-.00484	.25093	-.01928
2.000	-4.145	.59826	-.00356	.24934	.01573	.07695	-.01292	.00026	-.00611	.24829	-.02462
2.000	-2.079	.59591	-.00197	.24703	.01552	.04323	-.00962	.00046	-.00440	.24700	-.01793
2.000	-.081	.57864	-.00514	.24386	.01610	.00572	-.00077	-.00003	-.00760	.24390	-.03118
2.000	1.994	.59457	-.00452	.24395	.01579	-.02946	.00560	-.00009	-.00701	.24389	-.02975
2.000	4.032	.59282	-.00402	.24648	.01466	-.05532	.01095	-.00029	-.00653	.24643	-.02650
2.000	6.087	.58505	-.00421	.24920	.01540	-.09996	.01401	-.00042	-.00675	.24915	-.02709
2.000	8.106	.59533	-.00436	.25089	.01582	-.13815	.01778	-.00057	-.00592	.25082	-.02759
2.000	10.212	.57405	-.00534	.25339	.01690	-.18092	.02345	-.00072	-.00798	.25332	-.03111
	GRADIENT	-.00064	-.00017	-.00033	-.00009	-.01749	.00299	-.00008	-.00017	-.00033	-.00071

UPWT 1089/1119 (IA-44) CONFIGURATION

T4/S7

(RHS002) (03 JAN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

ALPHA = .000 TANK = 1.000
 SES = 1.000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CS	L/D
2.860	-10.133	-.01397	-.03280	.20592	.02074	.18334	-.02357	-.00108	-.03275	.20593	-.15902
2.860	-8.118	-.01581	-.02976	.20410	.01954	.14156	-.01823	-.00088	-.02971	.20411	-.14554
2.860	-6.100	-.02041	-.02899	.20343	.01927	.10381	-.01360	-.00075	-.02892	.20344	-.14214
2.860	-4.052	-.01338	-.02716	.20106	.01853	.06866	-.01016	-.00082	-.02711	.20106	-.13483
2.860	-2.010	-.01445	-.02871	.19891	.01979	.03355	-.00520	-.00052	-.02866	.19992	-.14408
2.860	-.018	-.01287	-.02693	.19764	.01816	-.00119	-.00009	-.00031	-.02678	.19765	-.13551
2.960	2.014	-.01556	-.02950	.19692	.01892	-.03396	.00394	-.00026	-.02945	.19693	-.14954
2.860	4.046	-.01347	-.02768	.19905	.01828	-.06904	.00355	-.00011	-.02763	.19906	-.13800
2.860	6.096	-.01108	-.02802	.20247	.01892	-.10607	.01393	-.00012	-.02798	.20247	-.13820
2.860	8.126	-.01059	-.03047	.20465	.02051	-.14366	.01932	-.00003	-.03043	.20465	-.14871
2.860	10.241	-.01076	-.03076	.20523	.02058	-.18717	.02749	.00013	-.03072	.20523	-.14969
	GRADIENT	-.00006	-.00009	-.00030	-.00002	-.01696	.00230	.00006	-.00009	-.00030	-.00067

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ .00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CS	L/D
3.900	-10.092	.03912	-.02945	.16954	.01462	.17223	-.02475	-.00148	-.02957	.16952	-.17443
3.900	-8.107	.04009	-.03003	.16702	.01595	.13456	-.01695	-.00121	-.03014	.16700	-.18049
3.900	-6.080	.03858	-.03070	.16554	.01677	.09903	-.01090	-.00103	-.03082	.16551	-.18618
3.900	-4.040	.03847	-.03147	.16379	.01737	.06578	-.00701	-.00115	-.03158	.16377	-.19283
3.900	-2.006	.04077	-.03218	.16303	.01820	.03428	-.00405	-.00106	-.03230	.16301	-.19914
3.900	-.019	.04055	-.03147	.16200	.01803	.00142	-.00154	-.00099	-.03158	.16199	-.19497
3.900	2.006	.04031	-.02940	.16033	.01648	-.03092	.00189	-.00077	-.02951	.16031	-.18409
3.900	4.031	.04095	-.03013	.16307	.01734	-.06326	.00531	-.00075	-.03025	.16305	-.18550
3.900	6.073	.04373	-.03397	.16517	.01845	-.09645	.00904	-.00101	-.03409	.16514	-.20644
3.900	8.113	.04294	-.03480	.16603	.01803	-.13247	.01553	-.00082	-.03493	.16600	-.21042
3.900	10.199	.03925	-.03269	.16743	.01827	-.17143	.02310	-.00057	-.03280	.16741	-.19595
	GRADIENT	.00022	.00027	-.00020	-.00009	-.01604	.00152	.00005	.00027	-.00020	.00142

UPWT 1988/1119 (1A-44) CONFIGURATION

14/57

(R48002) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000
 SES = 1.000

RUN NO. 0/ 0 R/WL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

NACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-10.067	.57008	-.02539	.15271	.01390	.16653	-.02289	-.00126	-.02690	.15244	-.17648
4.600	-9.070	.57166	-.02649	.15041	.01473	.13055	-.01464	-.00115	-.02799	.15014	-.18645
4.600	-6.066	.56990	-.02763	.14925	.01589	.09529	-.00909	-.00116	-.02911	.14896	-.19541
4.600	-4.031	.56912	-.02512	.14702	.01499	.06453	-.00599	-.00119	-.02658	.14677	-.19111
4.600	-1.992	.56687	-.02618	.14594	.01694	.03373	-.00433	-.00142	-.02962	.14555	-.20353
4.600	-.020	.56686	-.02571	.14480	.01550	.00454	-.00299	-.00129	-.02714	.14454	-.19775
4.600	1.992	.57991	-.02312	.14368	.01452	-.02728	.00018	-.00105	-.02457	.14343	-.17132
4.600	4.041	.57957	-.02821	.14534	.01661	-.05906	.00235	-.00164	-.02968	.14504	-.20465
4.600	6.058	.58100	-.02760	.14721	.01663	-.09028	.00596	-.00183	-.02909	.14693	-.19799
4.600	8.054	.57297	-.02710	.14910	.01572	-.12409	.01343	-.00183	-.02858	.14792	-.19336
4.600	9.946	.57278	-.02660	.14942	.01484	-.15776	.02039	-.00190	-.02809	.14815	-.18958
	GRADIENT	.00169	-.00006	-.00027	.00005	-.01523	.00105	-.00003	-.00006	-.00028	-.00077

UFWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(948003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 Sq.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUDDER = .000
 SPDRK = .000 BDF_AF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.629	-.06413	-.78137	.46130	.30659	.00997	-.00340	.00057	-.68288	.39751	-1.14289
1.600	-8.344	-.06625	-.61501	.43909	.23685	.01233	-.00626	.00133	-.53997	.54537	-.99011
1.600	-6.431	-.06478	-.45708	.45195	.17369	.01951	-.00356	.00123	-.40350	.50020	-.80687
1.600	-4.629	-.06592	-.33268	.44669	.12809	.01130	-.00544	.00123	-.29354	.47208	-.62604
1.600	-2.232	-.06446	-.18126	.44584	.07095	.01907	-.00521	.00132	-.16376	.45256	-.36185
1.600	-1.180	-.06497	-.11763	.44448	.04810	.01057	-.00534	.00115	-.10945	.44681	-.24272
1.600	-.119	-.06592	-.04540	.44374	.02230	.01211	-.00631	.00162	-.04448	.44383	-.10023
1.600	.931	-.06599	.02005	.44359	-.00216	.01279	-.00713	.00183	.01284	.44396	.02892
1.600	1.577	-.06568	.07517	.44148	-.02308	.01294	-.00750	.00169	.06089	.44384	.13718
1.600	4.075	-.06660	.19984	.43644	-.07460	.01461	-.00846	.00208	.16732	.44946	.37227
1.600	6.165	-.06577	.31280	.43501	-.11324	.01334	-.00756	.00222	.26428	.46509	.56701
1.600	8.269	-.06541	.43592	.43480	-.16184	.01426	-.00805	.00233	.36896	.49298	.74823
1.600	10.454	-.06631	.56378	.43299	-.20276	.01339	-.00713	.00238	.47586	.52910	.90107
GRADIENT		-.00014	.06131	-.00110	-.02314	.00046	-.00040	.00011	.05344	-.00251	-.11604

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

YACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.029	-.07403	-.70121	.41689	.27614	.02144	-.00955	.00169	-.61790	.53263	-1.16008
2.000	-7.935	-.06986	-.54436	.40864	.21292	.01653	-.00765	.00186	-.48273	.47987	-1.00396
2.000	-5.842	-.06954	-.40035	.40223	.15624	.01616	-.00762	.00195	-.35733	.44089	-.81048
2.000	-4.061	-.06743	-.29346	.39818	.11724	.01303	-.00594	.00167	-.26453	.41797	-.63290
2.000	-1.870	-.06633	-.16428	.39461	.07375	.01171	-.00551	.00140	-.15271	.39923	-.36252
2.000	-.619	-.06567	-.10925	.39210	.05497	.01117	-.00552	.00120	-.10300	.39325	-.26701
2.000	.426	-.06540	-.05105	.39049	.03535	.01096	-.00556	.00107	-.05395	.39010	-.13831
2.000	1.469	-.06494	.00273	.38980	.01579	.01042	-.00539	.00107	-.00726	.38974	-.01852
2.000	2.518	-.06517	.06282	.38977	-.00681	.01208	-.00619	.00151	.04571	.39045	.11707
2.000	4.631	-.06364	.17544	.39717	-.05505	.00953	-.00487	.00091	.14382	.39999	.35955
2.000	6.692	-.06200	.29997	.38702	-.10608	.00669	-.00332	.00099	.25283	.41934	.60291
2.000	8.798	-.06102	.42605	.38538	-.15977	.00467	-.00210	.00075	.36209	.44601	.81184
2.000	10.986	-.05931	.54893	.38225	-.19718	.00208	-.00095	.00053	.46593	.47984	.97101
GRADIENT		.00040	.05412	-.00132	-.01069	-.00031	.00007	-.00007	.04716	-.00214	.11554

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1088/1119 (TA-44) CONFIGURATION 02/T4/57

(RH8003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 SCFLAP = .000

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CL	CL	CD	L/D
2.500	-10.908	.00609	-.67013	.37781	.26414	-.00724	.00233	-.00144	-.58653	.49779	-1.17826
2.500	-8.832	.00504	-.54479	.36726	.21320	-.00609	.00187	-.00119	-.48194	.44656	-1.07922
2.500	-6.741	.00306	-.41806	.35925	.16150	-.00399	.00123	-.00025	-.37300	.40584	-.91909
2.500	-4.630	.00194	-.30265	.35478	.11875	-.00284	.00087	-.00001	-.27302	.37805	-.72218
2.500	-2.544	.00230	-.20073	.35209	.08692	-.00330	.00095	-.00030	-.18491	.35065	-.51270
2.500	-1.510	.00094	-.15321	.35085	.07467	-.00082	-.00052	-.00005	-.14391	.35477	-.40564
2.500	-.478	-.00084	-.10137	.34978	.06098	.00203	-.00198	.00061	-.09645	.35051	-.28978
2.500	.552	-.00320	-.05973	.34816	.05077	.00551	-.00362	.00091	-.06508	.34757	-.18149
2.500	1.559	-.00246	-.01699	.34501	.03780	.00487	-.00347	.00067	-.02635	.34442	-.07654
2.500	3.657	-.00317	.07669	.33962	.00472	.00629	-.00436	.00039	.05486	.34382	.15955
2.500	5.705	-.00411	.18394	.33695	-.03727	.00799	-.00538	.00054	.14953	.35357	.42293
2.500	7.809	-.00659	.30165	.33599	-.08457	.01069	-.00642	.00091	.25320	.37386	.67726
2.500	9.895	-.00723	.41909	.33132	-.12992	.01121	-.00570	.00075	.35592	.39841	.89336
	GRADIENT	-.00078	.04557	-.00179	-.01333	.00136	-.00076	.00010	.03939	-.00407	.10649

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CL	CL	CD	L/D
2.860	-10.620	.00384	-.62672	.35830	.24612	-.00547	.00206	-.00146	-.54995	.46766	-1.17599
2.860	-8.558	.00296	-.51630	.35010	.20446	-.00299	-.00003	.00015	-.45845	.42303	-1.08373
2.860	-6.452	.00190	-.40522	.34075	.16579	-.00174	-.00038	.00020	-.36437	.38413	-.94856
2.860	-4.409	.00134	-.29910	.33090	.13007	-.00185	.00012	-.00025	-.27277	.35292	-.77291
2.860	-2.315	-.00084	-.19587	.32324	.09598	.00045	-.00035	.00001	-.18266	.33089	-.55202
2.860	-1.263	-.00120	-.14914	.32046	.08171	.00111	-.00062	.00002	-.14204	.32367	-.43884
2.860	-.263	-.00199	-.10814	.31828	.07044	.00280	-.00163	.00005	-.10668	.31877	-.33465
2.860	.790	-.00234	-.06487	.31509	.05697	.00413	-.00265	.00033	-.06921	.31416	-.22031
2.860	1.797	-.00465	-.01593	.31349	.03952	.00758	-.00408	.00119	-.02576	.31283	-.09233
2.860	3.896	-.00601	.07334	.30862	.00652	.01011	-.00549	.00134	.05220	.31289	.16584
2.860	5.929	-.00703	.16711	.30411	-.02953	.01159	-.00509	.00125	.13480	.31974	.42160
2.860	8.017	-.00905	.28053	.30136	-.07467	.01483	-.00800	.00205	.23576	.33754	.69847
2.860	10.091	-.00942	.38751	.29705	-.11537	.01391	-.00794	.00145	.32953	.36730	.91460
	GRADIENT	-.00099	.04446	-.00262	-.01453	.00150	-.00073	.00021	.03978	-.00473	.11303

UPWT 1088/1119 (IA-44) CONFIGURATION 02/74/57

(RH8003) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 409.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUDDER = .000
 SPOBRK = .000 BDFLAF = .000

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.516	-.01503	-.50020	.30912	.19123	-.00744	.00294	-.00006	-.43538	.39521	-1.10164
3.900	-8.471	-.01640	-.42226	.29963	.16690	-.00509	.00193	-.00034	-.37351	.35857	-1.04167
3.900	-6.430	-.01643	-.35345	.28636	.14839	-.00504	.00173	-.00111	-.31915	.32414	-.98461
3.900	-4.398	-.01776	-.26998	.27563	.12102	-.00312	.00121	-.00090	-.24810	.29547	-.83966
3.900	-2.356	-.01977	-.18965	.26927	.09647	.00015	.00009	-.00027	-.17846	.27584	-.64697
3.900	-1.328	-.01958	-.15359	.26471	.08523	.00002	.00012	-.00051	-.14741	.26820	-.54965
3.900	-.304	-.01992	-.11423	.26154	.07317	.00086	-.00021	-.00051	-.11284	.26215	-.43044
3.900	.724	-.02081	-.07495	.25975	.06148	.00304	-.00133	-.00011	-.07811	.25778	-.30301
3.900	1.726	-.02056	-.04187	.25601	.05209	.00294	-.00139	-.00049	-.04956	.25464	-.19451
3.900	3.772	-.02114	.03487	.25133	.02594	.00390	-.00162	-.00032	.01826	.25309	.07214
3.900	5.811	-.02234	.11302	.24552	-.00077	.00623	-.00257	-.00027	.08748	.25670	.34079
3.900	7.861	-.02412	.20571	.24226	-.03591	.00959	-.00324	.00042	.17163	.26825	.63991
3.900	9.905	-.02363	.28937	.23738	-.06492	.00641	-.00181	-.00021	.24324	.28344	.85818
	GRADIENT	-.00038	.03719	-.00298	-.01151	.00086	-.00037	.00005	.03249	-.00519	.11197

RUN NO. 0/0 RML = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.891	-.01610	-.47459	.29770	.18022	-.00712	.00286	-.00092	-.41640	.37480	-1.11099
4.600	-7.856	-.01659	-.39861	.29413	.15977	-.00652	.00291	-.00090	-.35603	.33597	-1.05972
4.600	-5.827	-.01974	-.31857	.27236	.13527	-.00181	.00097	-.00008	-.28927	.30329	-.95377
4.600	-3.794	-.01993	-.24854	.25957	.11390	-.00126	.00066	-.00047	-.23082	.27544	-.83900
4.600	-1.763	-.01985	-.17626	.24995	.09226	.00048	-.00009	-.00047	-.16952	.25425	-.66279
4.600	-.745	-.01988	-.14228	.24364	.08213	.00099	-.00029	-.00073	-.13910	.24547	-.56666
4.600	.261	-.02128	-.09789	.24135	.06796	.00491	-.00212	.00054	-.09897	.24091	-.41093
4.600	1.276	-.02067	-.06982	.23595	.05162	.00295	-.00096	-.00055	-.07506	.23433	-.32029
4.600	2.305	-.02154	-.02564	.23421	.04658	.00571	-.00226	.00025	-.03504	.23299	-.15037
4.600	4.330	-.02186	.04228	.22901	.02525	.00738	-.00351	.00027	.02495	.23055	.10820
4.600	6.352	-.02232	.11625	.22166	-.00004	.00794	-.00327	.00051	.09102	.23316	.39037
4.600	8.381	-.02310	.19409	.21544	-.02853	.00955	-.00310	.00033	.16061	.24143	.66523
4.600	10.419	-.02323	.27775	.21097	-.06033	.00795	-.00271	.00023	.23504	.25762	.91236
	GRADIENT	-.00036	.03603	-.00393	-.01093	.00110	-.00051	.00011	.03175	-.00547	.11854

UPWT 1089/1119 (IA-44) CONFIGURATION 02/T4/S7

(RHS004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-15.486	-.14741	-.05001	.45271	.01040	.51029	-.22365	.06920	-.04984	.45284	-.10786
1.600	-9.373	-.14330	-.04667	.45303	.0133^	.39719	-.17377	.05549	-.04554	.45314	-.10050
1.600	-6.315	-.14298	-.04959	.45016	.01539	.29157	-.12902	.04158	-.04847	.45028	-.10764
1.600	-4.237	-.13478	-.04778	.44725	.01846	.19544	-.08720	.02800	-.04572	.44736	-.10444
1.600	-2.106	-.13648	-.05250	.44413	.02332	.10276	-.04655	.01417	-.05144	.44425	-.11580
1.600	-.066	-.13709	-.05134	.44161	.02242	.01207	-.00653	.00190	-.05028	.44173	-.11382
1.600	2.034	-.13296	-.05035	.44060	.02007	-.08148	.03609	-.01075	-.04933	.44071	-.11193
1.600	4.113	-.12576	-.04670	.44494	.01718	-.17192	.07549	-.02370	-.04573	.44505	-.10274
1.600	6.212	-.13997	-.05109	.44835	.01848	-.26587	.11735	-.03725	-.05000	.44847	-.11149
1.600	8.320	-.14239	-.05005	.44939	.02153	-.35911	.15978	-.05179	-.05893	.44954	-.13110
1.600	10.479	-.15795	-.06636	.45111	.02294	-.47850	.20455	-.06563	-.06512	.45129	-.14430
	GRADIENT	.00103	.00020	-.00039	-.00028	-.04419	.01958	-.00616	.00013	-.00039	.00034

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.455	.42350	-.03905	.39878	.01954	.48403	-.21615	.05940	-.04200	.39848	-.10539
2.000	-8.352	.41939	-.04159	.39974	.02263	.39967	-.16986	.04781	-.04450	.39942	-.11142
2.000	-6.283	.42294	-.04322	.39970	.02624	.29146	-.12703	.03621	-.04616	.39937	-.11588
2.000	-4.229	.42583	-.04666	.39707	.03050	.19101	-.08635	.02477	-.04961	.39671	-.12505
2.000	-2.105	.42199	-.05460	.39210	.03554	.10206	-.04625	.01302	-.05749	.39169	-.14677
2.000	-.069	.41601	-.06076	.38952	.03769	.01375	-.00591	.00162	-.06359	.38905	-.16383
2.000	2.028	.41916	-.05747	.39120	.03533	-.07675	.03529	-.00928	-.06033	.39076	-.15440
2.000	4.105	.41931	-.05257	.39480	.03007	-.16962	.07759	-.02136	-.05556	.39441	-.14086
2.000	6.199	.41394	-.05710	.39426	.02978	-.25455	.11387	-.03208	-.05995	.39384	-.15221
2.000	8.299	.41024	-.06185	.39532	.03142	-.35109	.15419	-.04411	-.05469	.39497	-.16380
	GRADIENT	-.00076	-.00072	-.00025	-.00006	-.04317	.01958	-.00551	-.00071	-.00027	-.00189

UFWT 1099/1119 (1A-44) CONFIGURATION 02/T4/57

(RHS004) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRFX = .000 SDFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.398	-.24463	-.10725	.33173	.06048	.43097	-.18325	.04629	-.10583	.33219	-.31859
2.860	-8.260	-.24542	-.10383	.32720	.06185	.33785	-.14404	.03650	-.10243	.32764	-.31262
2.860	-6.213	-.24650	-.10109	.32454	.06208	.25018	-.10537	.02709	-.09969	.32497	-.30678
2.860	-4.093	-.25205	-.10302	.32023	.06540	.16100	-.06835	.01693	-.10161	.32068	-.31685
2.860	-2.039	-.25595	-.10444	.31809	.06662	.07841	-.03364	.00741	-.10302	.31855	-.32340
2.860	-.020	-.25156	-.10213	.31636	.06676	.00144	-.00080	.00006	-.10074	.31691	-.31798
2.860	1.999	-.25557	-.10411	.31555	.06674	-.07209	.03019	-.00748	-.10270	.31601	-.32498
2.860	4.096	-.24314	-.09767	.31717	.06159	-.15205	.06304	-.01569	-.09632	.31758	-.30331
2.860	6.196	-.24263	-.09594	.31917	.05983	-.23552	.09860	-.02499	-.09459	.31957	-.29599
2.860	8.218	-.23440	-.09027	.32128	.05754	-.32262	.13715	-.03515	-.08895	.32165	-.27655
2.860	10.447	-.23563	-.09111	.32450	.05796	-.42331	.17991	-.04653	-.08978	.32497	-.27627
GRADIENT		.00090	.00054	-.00042	-.00037	-.03803	.01599	-.00392	.00054	-.00043	.00126

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-4.096	-.31382	-.11632	.26417	.07255	.13867	-.05338	.01289	-.11487	.26480	-.43379
3.900	-2.043	-.31220	-.11206	.26296	.07148	.06864	-.02628	.00618	-.11062	.26346	-.41989
3.900	-.022	-.31382	-.11586	.26181	.07494	.00499	-.00185	.00028	-.11443	.26244	-.43600
3.900	1.993	-.31659	-.11513	.26051	.07383	-.06323	.02450	-.00660	-.11369	.26114	-.43537
3.900	4.065	-.30722	-.10337	.26383	.06939	-.13241	.05104	-.01318	-.10195	.26438	-.38561
3.900	6.125	-.31041	-.10933	.26543	.06994	-.20280	.07891	-.02147	-.10789	.26602	-.40556
3.900	8.166	-.30466	-.10047	.27032	.06620	-.27814	.11001	-.02902	-.09903	.27085	-.36562
GRADIENT		.00044	.00113	-.00015	-.00030	-.03313	.01276	-.00319	.00113	-.00015	.00400

RUN NO. 0/ 0 RML = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-4.038	.25399	-.09596	.24338	.06460	.13279	-.05027	.01224	-.09708	.24293	-.39951
4.600	-2.015	.26323	-.09207	.24085	.06235	.06764	-.02566	.00610	-.09317	.24042	-.38754
4.600	-.003	.26005	-.09809	.23987	.06739	.00658	-.00293	.00059	-.09917	.23943	-.41421
4.600	1.992	.25791	-.09679	.23983	.06596	-.05624	.02070	-.00503	-.09786	.23939	-.40880
4.600	4.045	.26062	-.09098	.24313	.06403	-.12213	.04497	-.01225	-.09199	.24272	-.37900
4.600	6.096	.26124	-.09938	.24591	.06333	-.19009	.07100	-.02013	-.09050	.24654	-.36714
4.600	8.108	.26279	-.09594	.24904	.06061	-.26054	.09870	-.02792	-.08698	.24924	-.34899
GRADIENT		-.00060	.00027	-.00007	.00012	-.03135	.01171	-.00302	.00027	-.00007	.00100

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1988/1119 (IA-44) CONFIGURATION 02/T4/S7

(R00005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ-FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.665	4.12937	-.80556	.46114	.31553	-.18564	.07786	-.01669	-.70630	.60225	-1.17276
1.600	-8.566	4.12417	-.53328	.46288	.24300	-.17762	.07305	-.01875	-.55727	.55204	-1.00948
1.600	-6.459	4.11963	-.47293	.45709	.18103	-.17300	.07161	-.02013	-.41652	.50738	-.82497
1.600	-4.674	4.11741	-.35159	.45174	.13348	-.17159	.07178	-.02077	-.31361	.47889	-.65488
1.600	-2.249	4.11254	-.18390	.44909	.06879	-.16797	.07162	-.02182	-.16613	.45596	-.36435
1.600	-1.193	4.11179	-.11749	.44759	.04355	-.16900	.07237	-.02235	-.10821	.44991	-.24052
1.600	-.331	4.11361	-.04676	.44553	.01712	-.17109	.07432	-.02361	-.04574	.44564	-.10254
1.600	.914	4.10977	.01828	.44405	-.00721	-.16916	.07423	-.02388	.00919	.44425	.02069
1.600	1.972	4.11132	.08492	.44496	-.03371	-.16551	.07515	-.02407	.05946	.44752	.15521
1.600	4.069	4.11195	.20483	.44155	-.08052	-.17015	.07529	-.02529	.17299	.45497	.38022
1.600	6.149	4.10887	.32152	.43648	-.12653	-.16530	.07205	-.02557	.27291	.46941	.58264
1.600	8.258	4.11030	.44257	.43234	-.17042	-.16341	.06838	-.02618	.37589	.49142	.76489
1.600	10.448	4.11264	.56997	.42980	-.20935	-.16409	.06689	-.02636	.48257	.52604	.91736
	GRADIENT	-.00058	.06372	-.00116	-.02446	.00000	.00000	-.00053	.05576	-.00269	.11957

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.030	4.11997	-.71009	.41728	.28326	-.17982	.07790	-.01584	-.62656	.53457	-1.17207
2.000	-7.955	4.11712	-.56259	.41060	.22004	-.17485	.07456	-.01709	-.50036	.48451	-1.03270
2.000	-5.856	4.11149	-.41779	.40482	.15543	-.16711	.07044	-.01818	-.37433	.44513	-.84094
2.000	-4.085	4.10990	-.30869	.39996	.12239	-.16597	.07042	-.01996	-.27941	.42093	-.66380
2.000	-1.677	4.10605	-.17074	.39671	.07270	-.16659	.07444	-.02095	-.15905	.40154	-.39611
2.000	-.624	4.10702	-.11048	.39645	.05109	-.16977	.07718	-.02103	-.10616	.39763	-.26697
2.000	.418	4.10631	-.05362	.39490	.03065	-.17019	.07825	-.02154	-.05650	.39449	-.14322
2.000	1.462	4.10500	.00335	.39359	.01013	-.17035	.07871	-.02150	-.00669	.39346	-.01700
2.000	2.507	4.10378	.06118	.39204	-.01171	-.16665	.07726	-.02060	.04397	.39434	.11151
2.000	4.601	4.10345	.17931	.38997	-.06027	-.16448	.07490	-.02013	.14746	.40300	.36591
2.000	6.691	4.10247	.29598	.38809	-.10701	-.16309	.07377	-.02186	.24865	.41992	.59212
2.000	8.792	4.10164	.41829	.38239	-.15085	-.16126	.07213	-.02301	.35493	.44183	.80332
2.000	10.976	4.10410	.54689	.37595	-.19243	-.16110	.06956	-.02320	.46529	.47320	.99329
	GRADIENT	-.00070	.05599	-.00116	-.02090	.00010	.00057	-.00000	.04897	-.00207	.11905

UFWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7

(RH8005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RT = .000
 ELV-RD = .000 RUDDER = .000
 SFDRBK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.614	4.12421	-.62813	.35619	.24492	-.19164	.09130	-.01928	-.55177	.46579	-1.18459
2.860	-8.540	4.11995	-.51877	.34871	.20293	-.18592	.07910	-.01764	-.46123	.42188	-1.09329
2.860	-6.467	4.11493	-.40577	.34018	.16221	-.17749	.07466	-.01632	-.36487	.38372	-.95087
2.860	-4.402	4.12764	-.29688	.33050	.12608	-.16900	.07021	-.01563	-.27064	.35232	-.76816
2.860	-2.317	4.12125	-.19425	.32119	.09231	-.15914	.06547	-.01547	-.18110	.32978	-.55082
2.860	-1.281	4.11867	-.14566	.31804	.07652	-.15400	.06353	-.01554	-.13952	.32123	-.43431
2.860	-.242	4.11829	-.09492	.31549	.06030	-.15301	.06291	-.01522	-.09358	.31599	-.29626
2.860	.794	4.11666	-.04945	.31221	.04610	-.14995	.06120	-.01519	-.05377	.31150	-.17263
2.860	1.809	4.11618	-.01135	.30943	.03405	-.14853	.06026	-.01581	-.02112	.30891	-.06836
2.860	3.891	4.11130	.08459	.30670	-.00223	-.14119	.05695	-.01532	.06364	.31172	.20416
2.860	5.944	4.10729	.18263	.30328	-.03966	-.13354	.05240	-.01569	.15024	.32056	.46868
2.860	8.009	4.10485	.28448	.29860	-.07920	-.13090	.05161	-.01683	.24010	.33532	.71605
2.860	10.092	4.10195	.40547	.29428	-.12744	-.12753	.05047	-.01712	.34762	.36077	.96355
	GRADIENT	-.00178	.04577	-.00267	-.01519	.00300	-.00151	.00002	.04011	-.00488	.11771

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.524	4.08045	-.50003	.31500	.19196	-.15814	.07061	-.01472	-.43408	.40103	-1.09242
3.900	-8.481	4.07848	-.42357	.30443	.16920	-.16443	.06989	-.01452	-.37404	.36357	-1.02881
3.900	-6.428	4.07573	-.35031	.29082	.14844	-.15891	.06616	-.01448	-.31555	.32821	-.96143
3.900	-4.390	4.07136	-.25949	.28026	.11694	-.14895	.06057	-.01308	-.23727	.29930	-.79276
3.900	-2.352	4.06928	-.18775	.26985	.09497	-.14168	.05631	-.01360	-.17652	.27732	-.63650
3.900	-1.319	4.06595	-.14242	.26703	.08000	-.13589	.05302	-.01323	-.13624	.27024	-.50415
3.900	-.310	4.06509	-.10657	.26349	.06979	-.13329	.05136	-.01377	-.10515	.26406	-.39819
3.900	.718	4.06361	-.06909	.25969	.05924	-.12928	.04997	-.01391	-.07234	.25890	-.27950
3.900	1.741	4.06226	-.03177	.25629	.04625	-.12532	.04644	-.01427	-.03954	.25521	-.15493
3.900	3.779	4.05999	.04747	.25116	.01796	-.11811	.04135	-.01427	.03081	.25374	.12143
3.900	5.819	4.05825	.12659	.24699	-.01071	-.11187	.03663	-.01442	.10091	.25846	.39043
3.900	7.859	4.05633	.21230	.24292	-.04120	-.10772	.03411	-.01488	.17710	.26967	.65672
3.900	9.916	4.05447	.30141	.23884	-.07293	-.10533	.03351	-.01514	.25578	.28719	.89066
	GRADIENT	-.00140	.03760	-.00352	-.01202	.00379	-.00235	-.00016	.03287	-.00555	.11293

UPWT 1088/1119 (IA-44) CONFIGURATION 02/74/57

(R08005) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = 4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RLODER = .000
 SFCBRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
4.600	-9.892	4.05693	-.46320	.30290	.17570	-.15706	.06477	-.01292	-.40426	.37805	-1.06935
4.600	-7.849	4.05450	-.38762	.29043	.15545	-.14962	.06024	-.01183	-.34432	.34064	-1.01080
4.600	-5.822	4.05196	-.31217	.27675	.13251	-.14251	.05642	-.01161	-.28248	.30699	-.92017
4.600	-3.795	4.05030	-.24475	.26268	.11155	-.13754	.05329	-.01234	-.22692	.27830	-.81502
4.600	-1.753	4.04701	-.16655	.25142	.08753	-.12870	.04884	-.01179	-.15878	.25639	-.61928
4.600	-.748	4.04613	-.12890	.24713	.07528	-.12602	.04746	-.01225	-.12567	.24979	-.50511
4.600	.278	4.04385	-.08461	.24419	.06195	-.11897	.04376	-.01132	-.08590	.24378	-.35194
4.600	1.328	4.04325	-.05101	.23928	.05223	-.11579	.04126	-.01252	-.05654	.23903	-.23755
4.600	2.307	4.04175	-.01334	.23605	.03991	-.11006	.03762	-.01238	-.02293	.23533	-.09701
4.600	4.329	4.03995	.05598	.22855	.01692	-.10317	.03297	-.01283	.03857	.23213	.16615
4.600	6.359	4.03807	.12746	.22239	-.00667	-.09694	.02914	-.01255	.10205	.23514	.43398
4.600	8.400	4.03587	.20892	.21733	-.03532	-.09211	.02707	-.01317	.17492	.24552	.71247
4.600	10.426	4.03483	.28459	.21121	-.06324	-.09041	.02640	-.01366	.24167	.25922	.93229
	GRADIENT	-.00128	.03719	-.00410	-.01165	.00433	-.00257	-.00008	.03286	-.00557	.12264

UPWT 1089/1119 (IA-44) CONFIGURATION 02/14/57

(RH9006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SFDPRK = .000 BDFLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.661	-4.24072	-.81284	.46992	.32131	.22314	-.09802	.02057	-.71206	.61121	-1.16500
1.600	-8.595	-4.22947	-.63940	.46897	.24801	.20398	-.09657	.02179	-.56124	.55902	-1.00397
1.600	-6.455	-4.22306	-.47253	.46394	.18299	.19675	-.08314	.02309	-.41739	.51472	-.81202
1.600	-4.661	-4.22159	-.34397	.45872	.13272	.19459	-.08203	.02439	-.30556	.48515	-.62982
1.600	-2.239	-4.21596	-.18429	.45335	.07039	.18963	-.08137	.02555	-.16644	.46020	-.36166
1.600	-1.188	-4.21474	-.11338	.45115	.04305	.18965	-.08242	.02625	-.10400	.45341	-.22937
1.600	-.133	-4.21340	-.04736	.44966	.01925	.18960	-.08360	.02727	-.04632	.44977	-.10298
1.600	.924	-4.21251	.01839	.44879	-.00539	.18936	-.08413	.02791	.01116	.44903	.02485
1.600	1.974	-4.21151	.08910	.45002	-.03311	.19143	-.08652	.02917	.07355	.45283	.16242
1.600	4.068	-4.20947	.20773	.44496	-.07993	.18979	-.08664	.03000	.17564	.45858	.38302
1.600	6.163	-4.21193	.32292	.44171	-.12484	.18984	-.08495	.03089	.27364	.47389	.57750
1.600	8.264	-4.21145	.44243	.43897	-.16766	.18565	-.08065	.03094	.37474	.49800	.75249
1.600	10.451	-4.21716	.57681	.43670	-.20931	.19019	-.08118	.03154	.48803	.53409	.91376
	GRADIENT	.00132	.06352	-.00142	-.02435	-.00037	-.00066	.00069	.05548	-.00285	.11775

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.027	-4.21893	-.70248	.42182	.28268	.22209	-.09738	.02063	-.61835	.53749	-1.15043
2.000	-7.943	-4.21129	-.55176	.41505	.22070	.21190	-.09226	.02110	-.48911	.48731	-1.00369
2.000	-5.845	-4.20521	-.41224	.40821	.16558	.20220	-.08659	.02214	-.36853	.44807	-.82248
2.000	-4.056	-4.19960	-.29946	.40322	.12252	.19413	-.08320	.02326	-.27019	.42339	-.63815
2.000	-1.671	-4.19352	-.16072	.39947	.07221	.19250	-.08591	.02455	-.14900	.40398	-.36883
2.000	-.621	-4.19366	-.10169	.39807	.05091	.19398	-.08759	.02468	-.09737	.39915	-.24395
2.000	.426	-4.19120	-.04561	.39727	.03092	.19193	-.08740	.02459	-.04857	.39692	-.12236
2.000	1.472	-4.19096	.01117	.39544	.00932	.19311	-.08905	.02484	.00100	.39559	.00253
2.000	2.519	-4.18798	.07246	.39275	-.01405	.19255	-.09018	.02512	.05512	.39555	.13936
2.000	4.605	-4.18513	.18335	.39015	-.05971	.18776	-.08647	.02419	.15143	.40361	.37520
2.000	6.704	-4.18557	.30985	.38915	-.11006	.18605	-.08520	.02742	.26131	.42254	.61842
2.000	8.801	-4.18295	.42916	.38483	-.15243	.17906	-.07975	.02754	.36522	.44597	.81895
2.000	10.991	-4.18421	.55967	.38252	-.19456	.17761	-.07721	.02699	.47549	.48201	.99647
	GRADIENT	.00142	.05567	-.00151	-.02000	-.00059	-.00052	.00012	.04863	-.00227	.11779

UPWT 1089/1119 (IA-44) CONFIGURATION 02/T4/S7

(RH0006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LRREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPOBRK = .000 DDFLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CL	CL	CD	L/D
2.860	-10.617	-4.13564	-.63736	.35364	.24945	.17142	-.07510	.01804	-.56129	.46501	-1.20705
2.860	-9.545	-4.13473	-.53194	.34752	.21031	.17023	-.07485	.01636	-.47439	.42270	-1.12229
2.860	-6.467	-4.13478	-.41724	.33931	.16983	.16973	-.07329	.01571	-.37637	.38414	-.97976
2.860	-4.396	-4.13296	-.30308	.33083	.12996	.16427	-.07013	.01539	-.27689	.35304	-.78431
2.860	-2.317	-4.12925	-.19805	.32274	.09448	.15796	-.06679	.01535	-.18483	.33048	-.55929
2.860	-1.286	-4.12800	-.15469	.31952	.08130	.15750	-.06671	.01595	-.14748	.32291	-.45671
2.860	-.251	-4.12831	-.10871	.31631	.06718	.15740	-.06702	.01651	-.10732	.31678	-.33879
2.860	.777	-4.12874	-.06541	.31315	.05365	.15817	-.06727	.01693	-.06965	.31223	-.22309
2.860	1.811	-4.12711	-.02574	.30911	.04036	.15592	-.06612	.01672	-.03549	.30814	-.11519
2.860	3.871	-4.12756	.06743	.30595	.02515	.15767	-.06762	.01776	.04662	.30981	.15049
2.860	5.930	-4.12678	.16778	.30447	-.03452	.15404	-.06424	.01866	.13543	.32017	.42297
2.860	7.997	-4.12801	.27163	.30106	-.07519	.15598	-.06537	.01986	.22710	.33593	.67605
2.860	10.083	-4.13013	.39124	.29813	-.12207	.15944	-.06755	.02199	.33300	.36203	.91982
	GRADIENT	.00060	.04420	-.00307	-.01464	-.00068	.00025	.00030	.03954	-.00527	.11214

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CL	CL	CD	L/D
3.900	-10.525	-4.10132	-.51949	.31272	.20033	.15515	-.06508	.01356	-.45363	.40235	-1.12744
3.900	-9.475	-4.10193	-.43971	.30382	.17616	.15481	-.06408	.01317	-.39013	.36531	-1.06794
3.900	-6.441	-4.10139	-.35679	.29256	.15066	.15314	-.06306	.01298	-.32172	.33073	-.97274
3.900	-4.394	-4.09964	-.27948	.28048	.12507	.14827	-.06002	.01197	-.25717	.30107	-.85420
3.900	-2.344	-4.09915	-.19090	.27224	.09522	.14480	-.05684	.01269	-.17980	.27982	-.64183
3.900	-1.331	-4.09730	-.15924	.26697	.08504	.14060	-.05441	.01221	-.15300	.27059	-.56542
3.900	-.307	-4.09656	-.11790	.26451	.07367	.13917	-.05350	.01293	-.11649	.26514	-.43935
3.900	.713	-4.09546	-.07670	.26175	.06070	.13728	-.05275	.01324	-.07995	.26077	-.30660
3.900	1.729	-4.09427	-.03880	.25900	.04783	.13397	-.05049	.01315	-.04659	.25771	-.18580
3.900	3.779	-4.09362	.03848	.25236	.02013	.13003	-.04674	.01431	.02177	.25434	.08560
3.900	5.818	-4.09377	.12311	.24940	-.01117	.12973	-.04499	.01521	.09719	.26059	.37295
3.900	7.961	-4.09340	.20795	.24413	-.04209	.12657	-.04340	.01549	.17261	.27028	.63863
3.900	9.908	-4.09340	.29596	.24188	-.07281	.12573	-.04285	.01594	.24992	.28920	.86420
	GRADIENT	.00083	.03869	-.00336	-.01259	-.00228	.00157	.00026	.03393	-.00562	.11521

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(RHB006) (06 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = -4.000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRBK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CSL	CL	CD	L/D
4.600	-9.889	-4.06304	-.47025	.30239	.17609	.15212	-.06354	.01295	-.41133	.37866	-1.08630
4.600	-7.597	-4.06205	-.40238	.29026	.16008	.14915	-.06094	.01187	-.35892	.34254	-1.04782
4.600	-5.919	-4.06063	-.33278	.27638	.14019	.14249	-.05712	.01074	-.30305	.30670	-.98170
4.600	-3.796	-4.06096	-.24571	.26408	.11068	.14131	-.05542	.01159	-.22768	.27977	-.81384
4.600	-1.761	-4.05989	-.16594	.25209	.09494	.13724	-.05283	.01163	-.15912	.25710	-.61889
4.600	-.729	-4.05943	-.12839	.24814	.07371	.13589	-.05190	.01229	-.12522	.24975	-.50139
4.600	.276	-4.05776	-.10013	.24226	.06584	.13174	-.04978	.01187	-.10130	.24178	-.41896
4.600	1.283	-4.05720	-.06143	.23970	.05446	.12874	-.04710	.01253	-.06678	.23926	-.28026
4.600	2.303	-4.05710	-.01675	.23712	.03926	.12679	-.04491	.01365	-.02627	.23626	-.11118
4.600	4.335	-4.05581	.04970	.22921	.01697	.12209	-.04169	.01445	.03223	.23232	.13871
4.600	6.357	-4.05476	.11797	.22333	-.00584	.11923	-.04006	.01451	.09252	.23502	.39366
4.600	8.383	-4.05400	.19604	.21763	-.03421	.11561	-.03785	.01438	.16222	.24389	.66516
4.600	10.422	-4.05371	.27829	.21597	-.06274	.11439	-.03750	.01470	.23462	.26275	.89296
	GRADIENT	.00067	.03631	-.00417	-.01139	-.00246	.06177	.00037	.03197	-.00570	.11928

UFWT 1988/1119 (1A-44) CONFIGURATION 02/12/57

(RH0007) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPDRBK = .000 BDFLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.637	-.05202	-.78224	.46052	.30710	.01710	-.00016	.00131	-.69380	.59699	-1.14540
1.600	-8.548	-.05103	-.61904	.45911	.23956	.01559	-.00067	.00145	-.54391	.54603	-.99613
1.600	-6.441	-.05071	-.46066	.45214	.17794	.01628	-.000762	.00223	-.40703	.50096	-.81250
1.600	-4.667	-.04934	-.33527	.44791	.12995	.01327	-.000607	.00175	-.29771	.47370	-.62848
1.600	-2.234	-.04593	-.17243	.44521	.06946	.01102	-.000553	.00168	-.15494	.45159	-.34310
1.600	-1.192	-.04570	-.10922	.44372	.04308	.01118	-.000590	.00162	-.09904	.44586	-.22213
1.600	-.124	-.04691	-.03400	.44444	.01747	.01298	-.000699	.00208	-.03304	.44452	-.07432
1.600	.927	-.04541	.02463	.44429	-.00441	.01193	-.000696	.00177	.01744	.44462	.03922
1.600	1.974	-.04546	.08409	.44232	-.02707	.01097	-.000617	.00144	.06979	.44496	.15461
1.600	4.067	-.04308	.20235	.43841	-.07599	.00918	-.000619	.00132	.17075	.43166	.37805
1.600	6.159	-.04082	.31791	.43591	-.12000	.00606	-.000464	.00092	.26931	.46749	.57609
1.600	9.269	-.04149	.43954	.43363	-.16372	.00535	-.000352	.00035	.37260	.49234	.75679
1.500	10.453	-.03800	.56950	.43060	-.20500	.00064	-.000157	.00006	.49095	.52659	.91332
	GRADIENT	.00049	.06159	-.00095	-.02342	-.00035	-.00006	-.00004	.05370	-.00235	.11626

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.030	-.05518	-.71063	.41637	.28093	.01903	-.000747	.00164	-.62725	.53378	-1.17511
2.000	-7.952	-.05521	-.55937	.40987	.21948	.01947	-.000759	.00226	-.49742	.48233	-1.03128
2.000	-5.847	-.05173	-.41312	.40231	.15991	.01655	-.000688	.00235	-.36999	.44230	-.83650
2.000	-4.066	-.04997	-.30149	.39912	.11939	.01492	-.000549	.00240	-.27250	.41850	-.65114
2.000	-1.670	-.04955	-.16321	.39467	.06973	.01360	-.000521	.00230	-.15164	.39926	-.37991
2.000	-.629	-.04974	-.10759	.39174	.05078	.01229	-.000440	.00199	-.10328	.39289	-.26287
2.000	.422	-.04953	-.04574	.39025	.02956	.01359	-.000529	.00223	-.04861	.39990	-.12468
2.000	1.466	-.04731	.00654	.38967	.01066	.01140	-.000459	.00176	-.00340	.39871	-.00976
2.000	2.310	-.04912	.05929	.38634	-.00919	.01189	-.000490	.00158	.04130	.38972	.10623
2.000	4.596	-.04595	.17265	.38585	-.05703	.00961	-.000408	.00114	.14118	.39943	.35432
2.000	6.692	-.04430	.30179	.38693	-.11093	.00764	-.000371	.00141	.23465	.41949	.50705
2.000	9.793	-.04245	.42416	.39410	-.15523	.00381	-.000094	.00091	.36046	.44443	.61107
2.000	10.999	-.04127	.55370	.39069	-.19468	.00211	-.000040	.00022	.47999	.47925	.99276
	GRADIENT	.00044	.05444	-.00152	-.01994	-.00008	.00013	-.00015	.04749	-.00241	.11633

UPWT 1089/1119 (1A-44) CONFIGURATION 02/14/56

(RHB008) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RT = .000
 ELV-RD = .000 RUDDER = .000
 SFDISK = .000 BDFLAP = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.0547	-.05259	-.70822	.46271	.31116	.01900	-.00917	.00211	-.68916	.60038	-1.14788
1.600	-8.555	-.05121	-.62012	.45970	.23953	.01610	-.00744	.00168	-.54484	.54683	-.99636
1.600	-6.459	-.04869	-.45984	.45354	.17697	.01340	-.00693	.00194	-.40599	.50232	-.80821
1.600	-4.631	-.04873	-.33470	.44812	.12957	.01313	-.00662	.00193	-.29743	.47357	-.62792
1.600	-2.236	-.04732	-.17535	.44529	.06872	.01113	-.00572	.00162	-.15785	.45179	-.34938
1.600	-1.104	-.04709	-.10723	.44433	.04364	.01113	-.00555	.00147	-.09802	.44645	-.21955
1.600	-.125	-.04406	-.04198	.44355	.01892	.00812	-.00460	.00126	-.04101	.44364	-.09243
1.600	.922	-.04600	.02477	.44298	-.00665	.01083	-.00596	.00153	.01763	.44332	.03978
1.600	1.979	-.04339	.08675	.44150	-.03046	.00787	-.00471	.00120	.07145	.44423	.16085
1.600	4.069	-.04162	.20732	.43747	-.08024	.00737	-.00533	.00152	.17575	.45108	.38963
1.600	6.163	-.04028	.32538	.43579	-.12538	.00572	-.00432	.00152	.27671	.46821	.59101
1.600	8.257	-.03973	.44017	.43395	-.16598	.00208	-.00198	.00043	.37329	.49267	.75768
1.600	10.452	-.03833	.56880	.43232	-.20523	.00108	-.00172	.00022	.48093	.52834	.91027
	GRADIENT	.00082	.06235	-.00113	-.02401	-.00067	.00015	-.00005	.05446	-.00247	.11802

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.039	-.05305	-.71284	.41604	.28032	.01781	-.00727	.00202	-.62940	.53393	-1.17880
2.000	-7.966	-.05332	-.56464	.40993	.21810	.01643	-.00584	.00178	-.50253	.48323	-1.03993
2.000	-5.856	-.05196	-.41681	.40257	.15934	.01517	-.00599	.00204	-.37357	.44500	-.84327
2.000	-4.075	-.04819	-.30458	.39799	.11633	.01033	-.00373	.00171	-.27553	.41863	-.65817
2.000	-1.672	-.04788	-.16753	.39497	.06810	.01057	-.00419	.00175	-.15594	.39970	-.39014
2.000	-.630	-.04732	-.11107	.39289	.04839	.00999	-.00392	.00156	-.10674	.39409	-.27086
2.000	.415	-.04631	-.05229	.39138	.02722	.00910	-.00357	.00144	-.05513	.39099	-.14099
2.000	1.466	-.04592	.00733	.38957	.00441	.00824	-.00293	.00114	-.00264	.38963	-.00677
2.000	2.509	-.04580	.06365	.38691	-.01734	.00953	-.00329	.00096	.04665	.38932	.11982
2.000	4.597	-.04410	.18111	.38583	-.06680	.00687	-.00253	.00091	.14960	.39910	.37485
2.000	6.691	-.04323	.30681	.38530	-.11790	.00579	-.00175	.00125	.25969	.41944	.61913
2.000	8.791	-.04229	.42909	.38487	-.16159	.00327	-.00022	.00082	.36523	.44592	.81904
2.000	10.971	-.03994	.55717	.38051	-.19944	.00071	.00013	.00012	.47452	.47965	.99930
	GRADIENT	.00048	.05590	-.00151	-.02097	-.00043	.00017	-.00011	.04895	-.00236	.11988

UPWT 1000/1119 (1A-44) CONFIGURATION 02/T4/S3

(R49009) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LRREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LT = .000 ELV-RT = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 SEALAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.650	-.05463	-.79656	.46275	.30967	.02255	-.01088	.00203	-.69749	.60014	-1.14555
1.600	-8.551	-.05178	-.61102	.46009	.23725	.01881	-.00927	.00220	-.53592	.54591	-.98169
1.600	-6.434	-.04916	-.45576	.45469	.17710	.01534	-.00779	.00235	-.40194	.50290	-.79925
1.600	-4.650	-.04752	-.33689	.45011	.13205	.01324	-.00682	.00192	-.29929	.47594	-.62884
1.600	-2.229	-.04599	-.17234	.44655	.09900	.01253	-.00550	.00195	-.15495	.45291	-.34190
1.600	-1.177	-.04574	-.10531	.44397	.04400	.01129	-.00603	.00170	-.09616	.44604	-.21559
1.600	-.123	-.04537	-.04034	.44262	.02003	.01095	-.00594	.00166	-.03939	.44270	-.08897
1.600	.927	-.04387	.02444	.44244	-.00536	.00969	-.00573	.00159	.01729	.44277	.03904
1.600	1.977	-.04348	.09406	.44100	-.02826	.00934	-.00562	.00150	.06979	.44364	.15506
1.600	4.071	-.04184	.20759	.43751	-.07947	.00796	-.00556	.00176	.17601	.45114	.39014
1.600	6.162	-.04272	.31990	.43414	-.12290	.00976	-.00582	.00158	.27136	.46595	.59237
1.600	8.256	-.03842	.44223	.43291	-.16520	.00301	-.00303	.00095	.37541	.49189	.76320
1.600	10.459	-.03842	.57433	.43214	-.20785	.00299	-.00310	.00097	.48635	.52922	.91899
	GRADIENT	.00069	.06219	-.00139	-.02403	-.00064	.00016	-.00004	.05429	-.00275	.11731

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.024	-.05519	-.70367	.41474	.27965	.02267	-.01033	.00249	-.62074	.53099	-1.16923
2.000	-7.955	-.05337	-.55534	.40669	.21796	.01919	-.00815	.00231	-.49371	.47964	-1.02934
2.000	-5.847	-.05151	-.40977	.40009	.15911	.01655	-.00699	.00242	-.36593	.44024	-.83098
2.000	-4.076	-.04970	-.30408	.39767	.11955	.01379	-.00542	.00218	-.27505	.41627	-.65757
2.000	-1.679	-.04873	-.16427	.39416	.06965	.01327	-.00563	.00211	-.15265	.39981	-.38278
2.000	-.630	-.04849	-.10579	.39150	.04950	.01349	-.00606	.00206	-.10249	.39265	-.26101
2.000	.422	-.04835	-.04529	.39059	.02629	.01344	-.00609	.00220	-.04817	.39025	-.12344
2.000	1.465	-.04793	.00993	.38849	.00515	.01290	-.00557	.00189	-.00011	.38961	-.00027
2.000	2.511	-.04704	.06604	.38652	-.01623	.01155	-.00497	.00149	.04904	.38904	.12606
2.000	4.601	-.04491	.18145	.38449	-.05582	.00805	-.00395	.00131	.15003	.39772	.37723
2.000	6.691	-.04410	.30737	.38496	-.11757	.00782	-.00323	.00140	.26043	.41815	.62281
2.000	8.795	-.04069	.43131	.38465	-.16221	.00299	-.00100	.00099	.36742	.44607	.82368
2.000	10.994	-.04020	.55721	.38242	-.19984	.00293	-.00145	.00071	.47414	.49159	.98454
	GRADIENT	.00051	.05579	-.00159	-.02119	-.00051	.00016	-.00011	.04885	-.00241	.11996

UPWT 1988/1119 (IA-44) CONFIGURATION 02/T4/52

(980010) (03 JAN 75)

REFERENCE DATA

SREF = 2590.0000 SQ-FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDORR = .000 BDFLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.650	-.05339	-.78202	.46452	.30704	.02160	-.01108	.00203	-.68270	.60105	-1.13585
1.600	-8.558	-.04954	-.61193	.46097	.23740	.01699	-.00913	.00211	-.53652	.54690	-.98101
1.600	-6.437	-.04928	-.45347	.45519	.17516	.01629	-.00859	.00233	-.39958	.50316	-.79414
1.600	-4.639	-.04680	-.32993	.45043	.12775	.01337	-.00754	.00195	-.29233	.47562	-.61461
1.600	-2.232	-.04570	-.16924	.44757	.06753	.01183	-.00653	.00168	-.15169	.45382	-.33424
1.600	-1.188	-.04534	-.07925	.44631	.04547	.01074	-.00567	.00153	-.09997	.44848	-.22290
1.600	-.126	-.04508	-.04018	.44504	.02939	.01106	-.00535	.00161	-.03921	.44512	-.08808
1.600	.929	-.04338	.02671	.44499	-.00540	.00954	-.00620	.00173	.01949	.44536	.04377
1.600	1.984	-.04210	.08929	.44307	-.02910	.00752	-.00507	.00115	.07299	.44586	.16351
1.600	4.074	-.04201	.20536	.43907	-.07771	.00823	-.00511	.00143	.17364	.45255	.38370
1.600	6.162	-.04059	.32491	.43533	-.12499	.00609	-.00499	.00093	.27620	.46768	.59059
1.600	8.267	-.03709	.44086	.43368	-.16538	.00156	-.00269	.00025	.37392	.49256	.75914
1.600	10.460	-.03387	.57827	.43306	-.20945	.00309	-.00347	.00085	.48808	.53048	.92006
	GRADIENT	.00060	.06154	-.00123	-.02349	-.00067	.00019	-.00007	.05363	-.06253	.11577

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.058	-.05436	-.71378	.42112	.27327	.02080	-.00914	.00212	-.62927	.53931	-1.16680
2.000	-7.959	-.05330	-.55480	.41480	.20955	.01918	-.00922	.00226	-.49203	.48762	-1.00903
2.000	-5.856	-.05192	-.40979	.40815	.15195	.01722	-.00720	.00247	-.36502	.44772	-.81528
2.000	-4.061	-.04989	-.29050	.40407	.10969	.01308	-.00508	.00226	-.26115	.42363	-.61647
2.000	-1.660	-.04759	-.15244	.39969	.06093	.01229	-.00530	.00216	-.14080	.40394	-.34856
2.000	-.622	-.04597	-.09670	.39694	.04103	.01021	-.00449	.00172	-.09239	.39797	-.23215
2.000	.424	-.04709	-.03732	.39440	.01947	.01149	-.00499	.00174	-.04024	.39412	-.10210
2.000	1.471	-.04507	.02001	.39229	-.00240	.00906	-.00408	.00141	.00694	.39268	.02530
2.000	2.515	-.04503	.07308	.38872	-.02237	.00907	-.00423	.00117	.05595	.39156	.14289
2.000	4.609	-.04409	.19351	.38779	-.07459	.00773	-.00364	.00105	.16173	.40208	.40222
2.000	6.709	-.04228	.31959	.38780	-.12525	.00523	-.00249	.00091	.27219	.42249	.64425
2.000	8.807	-.04195	.44364	.38641	-.16524	.00497	-.00232	.00120	.37925	.44979	.84318
2.000	10.993	-.03933	.57096	.38371	-.20595	.00245	-.00163	.00050	.49721	.48553	1.00346
	GRADIENT	.00056	.05551	-.00203	-.02098	-.00064	.00019	-.00016	.04849	-.06255	.11773

ORIGINAL MARKED IN
 OF POOR QUALITY.

UFWT 1086/1119 (1A-44) CONFIGURATION 12/T4/S2

(R48010) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-ED = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUBBER = .000
 SPOBRK = .000 DFLAP = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.618	-.00285	-.61533	.35222	.23901	.00495	-.00266	-.00048	-.53991	.45955	-1.17486
2.860	-8.539	-.00175	-.50260	.34308	.19802	.00347	-.00219	-.00050	-.44611	.41388	-1.07706
2.860	-6.462	-.00046	-.38951	.33404	.15579	.00073	-.00047	-.00069	-.34945	.37565	-.92759
2.860	-4.384	-.00052	-.28056	.32635	.11819	.00087	-.00050	-.00059	-.25479	.34685	-.73460
2.860	-2.324	.00039	-.18849	.31941	.08999	-.00059	.00032	-.00099	-.17539	.32678	-.53669
2.860	-1.288	-.00021	-.14039	.31815	.07474	.00049	-.00030	-.00058	-.13321	.32123	-.41468
2.860	-.253	-.00036	-.09590	.31730	.06275	.00097	-.00050	-.00039	-.09540	.31773	-.30025
2.860	.769	.00049	-.05988	.31399	.05306	.00050	-.00050	-.00077	-.05409	.31314	-.20465
2.860	1.806	-.00010	-.01540	.31053	.03792	.00066	-.00058	-.00078	-.02518	.30989	-.08125
2.860	3.863	.00059	.07659	.30792	.00375	.00024	-.00097	-.00092	.05566	.31239	.17820
2.860	5.936	-.00030	.17640	.30413	-.03432	.00061	-.00051	-.00095	.14406	.32071	.44918
2.860	8.001	-.00091	.28196	.30161	-.07463	.00156	-.00107	-.00065	.23723	.33792	.70204
2.860	10.077	.00049	.39229	.29700	-.11591	.00093	-.00160	-.00092	.33426	.36105	.92579
	GRADIENT	.00000	.04284	-.00221	-.01343	-.00001	-.00010	-.00003	.03721	-.00415	.11020

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.894	-.00161	-.46746	.29572	.17544	.00325	-.00085	-.00017	-.40969	.37165	-1.10237
4.600	-7.872	-.00097	-.39620	.28349	.15516	.00331	-.00057	-.00100	-.35364	.33508	-1.05537
4.600	-5.833	-.00172	-.32453	.27079	.13592	.00275	-.00031	-.00116	-.29533	.30237	-.97672
4.600	-3.809	-.00097	-.25163	.25847	.11323	.00104	.00028	-.00165	-.23390	.27461	-.93176
4.600	-1.778	-.00132	-.17477	.24933	.09867	.00319	-.00122	-.00095	-.16698	.25363	-.65836
4.600	-.760	-.00065	-.13818	.24333	.07674	.00154	-.00055	-.00147	-.13494	.24514	-.55047
4.600	.257	-.00139	-.10148	.24029	.06704	.00320	-.00118	-.00099	-.10255	.23992	-.42763
4.600	1.269	-.00112	-.07251	.23603	.06052	.00211	-.00044	-.00145	-.07772	.23437	-.33161
4.600	2.298	-.00091	-.03426	.23305	.04792	.00153	-.00036	-.00161	-.04353	.23149	-.19905
4.600	4.311	-.00109	.03942	.22704	.02414	.00231	-.00085	-.00137	.02125	.22928	.09267
4.600	6.342	-.00093	.11657	.22018	-.00413	.00094	.00034	-.00139	.09153	.23171	.39503
4.600	8.377	-.00103	.20047	.21514	-.03402	.00173	-.00039	-.00124	.16699	.24294	.68991
4.600	10.412	-.00054	.28420	.20922	-.06506	.00095	-.00023	-.00132	.24171	.25714	.93999
	GRADIENT	-.00001	.03334	-.00394	-.01065	.00003	-.00005	-.00000	.03197	-.00555	.11579

UPWT 1988/1119 (1A-44) CONFIGURATION 02/T4/S1

(RH8011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 SDFLAP = .000

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.670	-.05319	-.79915	.45510	.32054	.01961	-.00852	.00253	-.70107	.59519	-1.17790
1.600	-8.577	-.05169	-.63350	.44911	.25420	.01852	-.00881	.00224	-.55944	.53856	-1.03876
1.600	-6.463	-.04949	-.47431	.44335	.19084	.01509	-.00701	.00193	-.42140	.49393	-.85316
1.600	-4.674	-.04733	-.35501	.43840	.14427	.01235	-.00596	.00156	-.31810	.46588	-.68280
1.600	-2.263	-.04497	-.19584	.43409	.08491	.01015	-.00575	.00095	-.17954	.44152	-.52665
1.600	-1.208	-.04396	-.13207	.43154	.06059	.00899	-.00522	.00076	-.12294	.43423	-.28313
1.600	-.151	-.04539	-.06287	.43071	.03583	.01148	-.00673	.00152	-.06174	.43088	-.14328
1.600	.893	-.04436	-.00534	.42992	.01390	.01094	-.00690	.00140	-.01204	.42978	-.02891
1.600	1.948	-.04272	.06252	.42982	-.01302	.00926	-.00526	.00139	.04787	.43170	.11989
1.600	4.035	-.04072	.18259	.42637	-.06373	.00703	-.00549	.00099	.15213	.43916	.34721
1.600	6.138	-.04028	.30985	.42433	-.10988	.00560	-.00452	.00058	.25375	.45407	.55884
1.600	8.225	-.03845	.41766	.42262	-.15567	.00336	-.00322	.00010	.35290	.47803	.73824
1.600	10.425	-.03784	.55082	.42083	-.19209	.00305	-.00330	.00032	.46558	.51355	.90657
1.600	GRADIENT	.00067	.06169	-.00129	-.02369	-.00047	-.00002	-.00002	.05398	-.00307	.11924

RUN NO. 0/0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.071	-.05419	-.71449	.41456	.27707	.02074	-.00881	.00228	-.63099	.53311	-1.18360
2.000	-7.987	-.04909	-.55955	.40349	.21417	.01457	-.00637	.00164	-.49806	.47731	-1.04347
2.000	-5.871	-.04882	-.41289	.39771	.15761	.01317	-.00525	.00170	-.37005	.43785	-.84514
2.000	-4.084	-.04583	-.30108	.39255	.11722	.00976	-.00418	.00137	-.27236	.41300	-.65947
2.000	-1.687	-.04361	-.16585	.38811	.06962	.00652	-.00280	.00075	-.15435	.39283	-.39293
2.000	-.645	-.04535	-.10967	.38511	.04085	.00890	-.00370	.00108	-.10432	.38631	-.27005
2.000	.397	-.04492	-.05533	.38279	.03146	.00795	-.00379	.00069	-.05798	.38239	-.15161
2.000	1.444	-.04295	.00212	.38071	.01007	.00713	-.00366	.00065	-.00748	.38064	-.01964
2.000	2.488	-.04059	.05942	.37880	-.01195	.00421	-.00215	.00025	.04192	.38098	.11002
2.000	4.581	-.04272	.17782	.37839	-.06256	.00628	-.00279	.00029	.14703	.39139	.37566
2.000	6.672	-.04127	.30204	.37925	-.11191	.00463	-.00226	.00023	.25593	.41177	.62153
2.000	8.782	-.03890	.42910	.37843	-.15526	.00333	-.00210	-.00001	.36630	.43950	.83343
2.000	10.967	-.03630	.55460	.37331	-.19213	-.00063	-.00040	-.00044	.47346	.47200	1.00000
2.000	GRADIENT	.00046	.05489	-.00177	-.02043	-.00046	.00015	-.00015	.04805	-.00264	.11957

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S1

(R48011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CEL	CL	CD	L/D
2.860	-10.609	-.00710	-.61757	.34562	.23952	.00964	-.00358	.00052	-.54338	.45341	-1.19942
2.860	-8.543	-.00314	-.50655	.33714	.19865	.00540	-.00295	.00053	-.45085	.40865	-1.10328
2.860	-6.470	-.00252	-.39438	.32660	.15518	.00371	-.00172	.00025	-.34514	.36783	-.93831
2.860	-4.397	-.00226	-.28938	.32169	.12380	.00317	-.00131	.00030	-.26393	.34288	-.76974
2.860	-2.319	-.00092	-.18609	.31660	.08927	.00168	-.00090	.00026	-.17313	.32387	-.53457
2.860	-1.289	-.00096	-.14577	.31557	.07841	.00209	-.00134	.00018	-.13864	.31877	-.43491
2.860	-.252	-.00181	-.09971	.31280	.06626	.00317	-.00172	.00007	-.09833	.31324	-.31392
2.860	.778	-.00177	-.05379	.30975	.05295	.00325	-.00188	-.00008	-.05799	.30900	-.18766
2.860	1.810	-.00109	-.01388	.30798	.03933	.00200	-.00117	-.00040	-.02360	.30739	-.07577
2.860	3.868	-.00112	.07610	.30403	.00751	.00257	-.00195	-.00034	.05542	.30847	.17965
2.860	5.921	-.00041	.16459	.29981	-.02578	.00121	-.00110	-.00049	.13278	.31519	.42126
2.860	8.004	-.00039	.27928	.29539	-.06917	.00155	-.00151	-.00065	.23543	.33140	.71041
2.860	10.077	.00041	.38962	.29169	-.10913	.00085	-.00155	-.00059	.33257	.35536	.93587
	GRADIENT	.00008	.04380	-.00216	-.01362	-.00001	-.00008	-.00010	.03823	-.00416	.11444

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CEL	CL	CD	L/D
3.900	-10.529	-.00371	-.50260	.29860	.19093	.00721	-.00313	.00064	-.43959	.38541	-1.14053
3.900	-8.493	-.00340	-.42414	.28877	.16722	.00602	-.00227	.00026	-.37684	.34824	-1.09214
3.900	-6.447	-.00309	-.34707	.27750	.14469	.00563	-.00235	.00020	-.31372	.31472	-.99684
3.900	-4.403	-.00297	-.26116	.26669	.11609	.00566	-.00245	.00016	-.23992	.28596	-.83900
3.900	-2.360	-.00324	-.19318	.26068	.09061	.00616	-.00253	.00021	-.17229	.26800	-.64288
3.900	-1.336	-.00301	-.14398	.25809	.07818	.00497	-.00148	-.00002	-.13792	.26137	-.52768
3.900	-.319	-.00297	-.10781	.25506	.06748	.00577	-.00264	.00022	-.10539	.25566	-.41613
3.900	.700	-.00253	-.07310	.25197	.05777	.00535	-.00251	.00004	-.07517	.25106	-.30340
3.900	1.727	-.00215	-.03697	.25000	.04713	.00410	-.00176	-.00029	-.04448	.24878	-.17881
3.900	3.765	-.00251	.03935	.24468	.02089	.00477	-.00211	-.00015	.02320	.24674	.09402
3.900	5.805	-.00239	.12159	.23997	-.00766	.00460	-.00216	-.00029	.09670	.25094	.38535
3.900	7.847	-.00251	.20694	.23467	-.03805	.00447	-.00193	-.00036	.17286	.26071	.66303
3.900	9.894	-.00189	.29494	.23162	-.07093	.00261	-.00054	-.00048	.25075	.27885	.89924
	GRADIENT	.00010	.03550	-.00269	-.01138	-.00017	.00004	-.00005	.03194	-.00480	.11390

UFWT 1098/1119 (IA-44) CONFIGURATION 02/74/51

(RH8011) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 SCFLAP = .000

RUN NO. 0/ 0 R/VL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CEL	CL	CD	L/D
4.600	-9.901	-.00277	-.48007	.29291	.18247	.00652	-.00256	.00045	-.42255	.37109	-1.13868
4.600	-7.870	-.00130	-.40243	.27966	.16127	.00317	-.00143	.00014	-.36035	.33213	-1.08498
4.600	-5.841	-.00227	-.32760	.26583	.13954	.00489	-.00181	-.00010	-.29874	.29879	-.59983
4.600	-3.813	-.00240	-.25282	.25561	.11498	.00540	-.00204	-.00023	-.23527	.27185	-.86542
4.600	-1.777	-.00221	-.17500	.24535	.09037	.00589	-.00278	.00015	-.16830	.25069	-.67135
4.600	-.757	-.00190	-.13769	.24091	.07775	.00534	-.00271	-.00001	-.13450	.24271	-.55416
4.600	.251	-.00144	-.10486	.23697	.06950	.00422	-.00227	-.00029	-.10590	.23651	-.44774
4.600	1.269	-.00216	-.07029	.23365	.06038	.00536	-.00236	-.00030	-.07544	.23204	-.32514
4.600	2.282	-.00200	-.03593	.23029	.04948	.00533	-.00262	-.00060	-.04509	.22868	-.19712
4.600	4.316	-.00191	.04052	.22469	.02404	.00501	-.00252	-.00045	.02349	.22710	.10544
4.600	6.343	-.00126	.11594	.21771	-.00212	.00359	-.00212	-.00057	.09217	.22929	.40195
4.600	8.377	-.00090	.19872	.21178	-.03269	.00273	-.00177	-.00073	.16574	.23848	.69502
4.600	10.411	-.00143	.28412	.20659	-.06503	.00359	-.00180	-.00066	.24211	.25452	.95123
	GRADIENT	.00005	.03565	-.00378	-.01095	-.00006	-.00003	-.00006	.03142	-.00548	.11844

UPWT 1998/1119 (IA-44) CONFIGURATION 02/T4/S9

(RHSD12) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 409.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SPDRK = .000 BDFLAF = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.600	-10.661	-.05187	-.78754	.45506	.30945	.01996	-.01035	.00200	-.68977	.59290	-1.16338
1.600	-8.567	-.05148	-.61837	.45205	.24021	.01834	-.00928	.00179	-.54413	.53912	-1.00929
1.600	-6.455	-.04961	-.45971	.44515	.17881	.01573	-.00836	.00193	-.40676	.49401	-.82330
1.600	-4.659	-.04656	-.33816	.43945	.13206	.01224	-.00684	.00157	-.30135	.46546	-.64743
1.600	-2.253	-.04574	-.17757	.43626	.07132	.01269	-.00792	.00177	-.16028	.44291	-.36187
1.600	-1.202	-.04514	-.10714	.43530	.04500	.01216	-.00770	.00177	-.09799	.43745	-.22400
1.600	-.146	-.04661	-.04425	.43452	.02266	.01430	-.00977	.00204	-.04314	.43463	-.09926
1.600	.904	-.04238	.02090	.43383	-.00184	.00897	-.00617	.00132	.01405	.43411	.03237
1.600	1.957	-.04398	.09253	.43305	-.02531	.01111	-.00712	.00163	.06770	.43561	.15541
1.600	4.055	-.04272	.20412	.42807	-.07505	.01019	-.00718	.00181	.17334	.44143	.39267
1.600	6.146	-.04096	.31572	.42411	-.11655	.00728	-.00537	.00123	.25850	.45548	.59950
1.600	8.246	-.03964	.43553	.42272	-.15855	.00485	-.00382	.00070	.37040	.48082	.77056
1.600	10.421	-.03897	.56044	.42051	-.19579	.00391	-.00342	.00077	.47513	.51494	.92269
	GRADIENT	.00047	.06214	-.00119	-.02356	-.00032	.00004	.00001	.05441	-.00259	.12014

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
2.000	-10.053	-.05661	-.70881	.41213	.27793	.02399	-.01070	.00254	-.62598	.52954	-1.18213
2.000	-7.967	-.05447	-.55959	.40551	.21539	.02101	-.00961	.00233	-.49798	.47916	-1.03927
2.000	-5.881	-.05118	-.41824	.39720	.15931	.01624	-.00746	.00181	-.37535	.43796	-.85703
2.000	-4.085	-.04954	-.30231	.39260	.11611	.01394	-.00619	.00210	-.27357	.41313	-.66219
2.000	-1.701	-.04867	-.16672	.38859	.06907	.01351	-.00619	.00201	-.15512	.39336	-.39433
2.000	-.644	-.04775	-.10776	.38635	.04949	.01265	-.00587	.00189	-.10342	.38754	-.26686
2.000	.404	-.04710	-.05015	.38498	.02990	.01236	-.00599	.00190	-.05287	.38452	-.13746
2.000	1.441	-.04630	.00419	.38282	.01049	.01148	-.00555	.00163	-.00545	.38260	-.01425
2.000	2.492	-.04659	.06052	.38099	-.01043	.01181	-.00555	.00190	.04390	.38326	.11454
2.000	4.589	-.04629	.17925	.37954	-.05922	.01095	-.00483	.00186	.14831	.39267	.37771
2.000	6.685	-.04438	.30426	.37933	-.11026	.00854	-.00377	.00173	.25903	.41217	.62604
2.000	8.776	-.04127	.42592	.37685	-.15283	.00422	-.00163	.00118	.36344	.43741	.83087
2.000	10.961	-.03947	.55034	.37237	-.18974	.00207	-.00084	.00047	.46950	.47022	.99847
	GRADIENT	.00041	.05520	-.00157	-.01990	-.00037	.00015	-.00003	.04836	-.00243	.12015

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/58

(RH8012) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 ZREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.519	-.01597	-.49509	.30786	.18783	-.00432	.00065	.00053	-.43057	.39307	-1.09541
3.900	-8.466	-.01786	-.41424	.29856	.16276	-.00103	-.00070	.00062	-.36577	.35629	-1.02662
3.900	-6.426	-.01870	-.33909	.28610	.14238	.00036	-.00137	.00065	-.30495	.32225	-.94631
3.900	-4.368	-.01935	-.25722	.27467	.11587	.00093	-.00126	.00038	-.23555	.29346	-.80269
3.900	-2.346	-.02015	-.18321	.26560	.09372	.00191	-.00142	.00044	-.17219	.27287	-.63101
3.900	-1.324	-.02097	-.14396	.26240	.08142	.00405	-.00260	.00083	-.13786	.26566	-.51892
3.900	-.305	-.02148	-.10299	.25962	.06900	.00534	-.00322	.00094	-.10161	.26017	-.39055
3.900	.708	-.02172	-.06844	.25536	.05956	.00572	-.00316	.00076	-.07159	.25450	-.28131
3.900	1.731	-.02131	-.03381	.25239	.04839	.00518	-.00293	.00043	-.04142	.25126	-.16484
3.900	3.776	-.02279	.03993	.24789	.02505	.00796	-.00401	.00096	.02352	.24998	.09410
3.900	5.824	-.02392	.12282	.24321	-.00339	.01027	-.00503	.00115	.09750	.25442	.38324
3.900	7.869	-.02525	.21033	.23875	-.03579	.01173	-.00528	.00148	.17567	.26530	.66216
3.900	9.907	-.02505	.29183	.23379	-.06444	.01000	-.00398	.00103	.24725	.28052	.89143
	GRADIENT	-.00039	.03655	-.00329	-.01115	.00085	-.00034	.00005	.03190	-.00533	.11126

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.895	-.01661	-.45236	.29834	.16947	-.00483	.00115	.00058	-.39443	.37157	-1.06153
4.600	-7.852	-.01701	-.38316	.28504	.15111	-.00478	.00156	-.00021	-.34062	.33471	-1.01767
4.600	-5.821	-.01997	-.30125	.27322	.12706	-.00012	-.00059	.00070	-.27199	.30236	-.89954
4.600	-3.798	-.01919	-.23355	.26066	.10659	.00042	-.00099	.00040	-.21577	.27555	-.78304
4.600	-1.204	-.01990	-.14452	.24628	.08099	.00234	-.00205	.00017	-.13931	.24926	-.55890
4.600	-.748	-.01975	-.13165	.24331	.07723	.00195	-.00178	-.00010	-.12847	.24501	-.52433
4.600	.267	-.02059	-.09150	.23982	.06471	.00471	-.00307	.00060	-.09262	.23940	-.38689
4.600	1.295	-.02193	-.04914	.23654	.05239	.00749	-.00405	.00150	-.05444	.23537	-.23127
4.600	2.303	-.02225	-.00917	.23479	.04033	.00998	-.00491	.00172	-.01860	.23424	-.07941
4.600	4.334	-.02215	.05656	.22768	.02010	.00904	-.00494	.00143	.03919	.23130	.16943
4.600	6.360	-.02264	.12610	.22118	-.00293	.01015	-.00528	.00142	.10083	.23379	.43127
4.600	8.389	-.02297	.20162	.21464	-.03088	.00860	-.00457	.00095	.16815	.24176	.69552
4.600	10.431	-.02371	.28305	.20891	-.05995	.01073	-.00509	.00119	.24055	.25670	.93759
	GRADIENT	-.00044	.03639	-.00390	-.01086	.00128	-.00057	.00021	.03209	-.00525	.12139

ORIGINAL PAGE IS
 OF POOR QUALITY

UPWT 1088/S119 (IA-44) CONFIGURATION 03/T4/S7

(RH0013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.644	-.05155	-.76416	.45353	.29209	.01255	-.00340	-.00031	-.66725	.58697	-1.13696
1.600	-8.566	-.05115	-.59389	.45085	.22219	.01247	-.00323	.00027	-.52011	.53427	-.97349
1.600	-6.452	-.04773	-.44161	.44509	.16391	.00934	-.00215	.00041	-.39879	.49189	-.79041
1.600	-4.656	-.04672	-.32189	.44143	.11938	.00859	-.00209	.00033	-.28500	.46611	-.61145
1.600	-2.253	-.04659	-.15646	.43953	.06027	.00894	-.00267	.00042	-.14906	.44573	-.33441
1.600	-1.199	-.04335	-.10773	.43941	.03887	.00546	-.00150	-.00011	-.09953	.44057	-.22364
1.600	-.147	-.04449	-.03766	.43835	.01348	.00739	-.00276	.00039	-.03654	.43845	-.09334
1.600	.907	-.04440	.02397	.43814	-.00943	.00809	-.00368	.00048	.01703	.43846	.03985
1.600	1.947	-.04479	.08024	.43624	-.03015	.00830	-.00358	.00015	.06537	.43872	.14900
1.600	4.048	-.04321	.19898	.43203	-.07938	.00668	-.00318	-.00012	.16799	.44500	.37750
1.600	6.129	-.04048	.30991	.42931	-.12181	.00269	-.00107	-.00075	.26230	.45994	.57029
1.600	8.232	-.04013	.42294	.42793	-.16136	.00060	.00067	-.00117	.35731	.48409	.73912
1.600	10.415	-.03909	.55084	.42634	-.20329	-.00122	.00148	-.00139	.46470	.51899	.89535
	GRADIENT	.00037	.05981	-.00098	-.02261	-.00014	-.00018	-.00004	.05204	-.00229	.11443

RUN NO. 0/ 0 RM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.044	-.05358	-.69775	.41266	.26674	.01548	-.00484	.00022	-.61509	.52803	-1.16489
2.000	-7.972	-.05233	-.54747	.40631	.20509	.01414	-.00395	.00081	-.48583	.47831	-1.01572
2.000	-5.867	-.05172	-.40314	.40056	.14852	.01427	-.00420	.00146	-.36009	.43967	-.81899
2.000	-4.092	-.04904	-.29542	.39699	.10918	.01103	-.00276	.00146	-.26734	.41703	-.64105
2.000	-1.702	-.04844	-.16144	.39425	.06291	.01046	-.00270	.00129	-.14966	.39888	-.37520
2.000	-.656	-.04732	-.10717	.39183	.04402	.00937	-.00245	.00101	-.10268	.39303	-.26124
2.000	.392	-.04702	-.05175	.39006	.02578	.00892	-.00222	.00094	-.05442	.38969	-.13964
2.000	1.441	-.04503	.00455	.38896	.00550	.00793	-.00196	.00076	-.00523	.38895	-.01345
2.000	2.498	-.04321	.05652	.38625	-.01307	.00651	-.00106	.00044	.03970	.38834	.10223
2.000	4.575	-.04302	.16930	.38510	-.03998	.00637	-.00117	.00044	.13804	.39737	.34739
2.000	6.667	-.04368	.28938	.38387	-.10941	.00394	.00044	.00022	.24186	.41476	.58314
2.000	8.760	-.04148	.40797	.38217	-.15233	-.00012	.00271	-.00042	.34501	.43985	.79438
2.000	10.951	-.04011	.53686	.37955	-.19192	-.00197	.00325	-.00099	.45498	.47463	.95860
	GRADIENT	.00053	.05342	-.00146	-.01919	-.00062	.00022	-.00013	.04549	-.00237	.11418

UPWT 1098/1119 (IA-44) CONFIGURATION 05/T4/S7

(R88013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RP = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SFDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
2.500	-10.912	-.01550	-.67872	.37471	.26573	-.00455	.00171	-.00156	-.59552	.49642	-1.19961
2.500	-8.926	-.01491	-.55085	.35471	.21337	-.00477	.00129	-.00129	-.48837	.44491	-1.09768
2.500	-6.734	-.01495	-.42536	.35514	.16368	-.00590	.00253	-.00156	-.38078	.40258	-.94587
2.500	-4.652	-.01604	-.31327	.35101	.12199	-.00407	.00156	-.00095	-.28377	.37526	-.75620
2.500	-2.572	-.01646	-.20206	.35003	.08533	-.00321	.00109	-.00045	-.18615	.35975	-.51889
2.500	-1.533	-.01831	-.15649	.34889	.07375	-.00064	-.00011	-.00039	-.14710	.35295	-.41676
2.500	-.490	-.01674	-.10972	.34658	.06197	-.00201	-.00009	-.00049	-.10675	.34751	-.30720
2.500	.545	-.01859	-.06683	.34520	.05197	.00053	-.00127	-.00055	-.07011	.34455	-.20348
2.500	1.575	-.01917	-.02413	.34219	.03952	.00130	-.00164	-.00065	-.03353	.34140	-.09021
2.500	3.651	-.01976	.07154	.33860	.00577	.00211	-.00217	-.00076	.04984	.34247	.14552
2.500	5.723	-.02067	.17769	.33602	-.03548	.00333	-.00283	-.00072	.14329	.35206	.40701
2.500	7.817	-.02214	.30341	.33409	-.08712	.00598	-.00389	-.00020	.25515	.37226	.69542
2.500	9.898	-.02336	.42496	.33129	-.13372	.00928	-.00478	.00036	.36168	.39941	.90555
	GRADIENT	-.00047	.04554	-.00158	-.01327	.00080	-.00049	.00000	.03939	-.00400	.10693

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
2.860	-10.619	-.01747	-.63655	.35261	.24906	-.00230	.00086	-.00143	-.56067	.46387	-1.20867
2.860	-8.540	-.01663	-.52676	.34554	.20586	-.00263	.00023	-.00102	-.46961	.41994	-1.11828
2.860	-6.464	-.01664	-.41811	.33650	.16923	-.00250	-.00004	-.00099	-.37757	.38144	-.99985
2.860	-4.387	-.01871	-.30107	.32882	.12948	-.00002	-.00061	-.00031	-.27504	.35088	-.78385
2.860	-2.323	-.01902	-.20143	.32066	.09744	-.00018	.00005	-.00065	-.18827	.32956	-.57390
2.860	-1.296	-.01952	-.15313	.31854	.08241	.00067	-.00043	-.00044	-.14594	.32190	-.45339
2.860	-.250	-.01941	-.11295	.31627	.07156	.00036	-.00023	-.00082	-.11147	.31676	-.35190
2.860	.786	-.02081	-.06745	.31375	.05779	.00305	-.00191	-.00036	-.07175	.31280	-.22938
2.860	1.814	-.02163	-.02221	.31152	.04243	.00426	-.00247	-.00025	-.03206	.31067	-.10321
2.860	3.876	-.02243	.06658	.30794	.00988	.00547	-.00319	-.00012	.04562	.31173	.14634
2.860	5.931	-.02331	.16331	.30357	-.02701	.00674	-.00387	.00004	.13197	.31882	.41110
2.860	8.002	-.02356	.27390	.30004	-.07059	.00911	-.00570	.00041	.22936	.33523	.68419
2.860	10.074	-.02350	.39244	.29751	-.11617	.01039	-.00660	.00083	.33434	.36157	.92469
	GRADIENT	-.00049	.04412	-.00246	-.01413	.00677	-.00039	.00004	.03846	-.00464	.11254

UPWT 1088/1119 (IA-44) CONFIGURATION 03/74/57

(RH8013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RLODER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
3.900	-10.509	-.01866	-.50134	.30334	.18825	-.00089	.00030	-.00019	-.43761	.38969	-1.12296
3.900	-9.479	-.01943	-.42328	.29310	.16364	.00064	-.00055	-.00023	-.37546	.35229	-1.06578
3.900	-6.432	-.02000	-.34665	.28151	.14134	.00121	-.00058	-.00049	-.31294	.31857	-.98232
3.900	-4.388	-.02091	-.26156	.27143	.11319	.00321	-.00146	.00000	-.24903	.29064	-.82596
3.900	-2.351	-.02046	-.18511	.26309	.08963	.00225	-.00079	-.00022	-.17416	.27046	-.64393
3.900	-1.332	-.02026	-.14999	.25961	.07970	.00179	-.00059	-.00066	-.14391	.26303	-.54714
3.900	-.302	-.02073	-.10953	.25683	.06697	.00279	-.00114	-.00041	-.10817	.25740	-.42025
3.900	.714	-.02063	-.07432	.25374	.05714	.00277	-.00132	-.00049	-.07748	.25279	-.30649
3.900	1.735	-.02035	-.04263	.25128	.04908	.00227	-.00118	-.00086	-.05022	.24987	-.20099
3.900	3.771	-.02072	.03596	.24766	.02227	.00229	-.00090	-.00072	.01959	.24949	.07853
3.900	5.817	-.02099	.11624	.24299	-.00552	.00293	-.00135	-.00104	.09101	.25352	.35898
3.900	7.866	-.02216	.21293	.23932	-.04198	.00635	-.00298	.00014	.17817	.26621	.66929
3.900	9.910	-.02185	.30299	.23602	-.07342	.00639	-.00262	.00057	.25785	.28464	.90588
	GRADIENT	.00001	.03619	-.00291	-.01091	-.00006	.00002	-.00009	.03157	-.00504	.11072

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO.	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
4.600	-9.894	-.00427	-.46961	.29328	.17289	-.03558	.01457	-.00220	-.41224	.36961	-1.11535
4.600	-7.853	-.00531	-.39212	.27941	.15060	-.03366	.01399	-.00193	-.35026	.33037	-1.06022
4.600	-5.837	-.00710	-.31700	.26698	.12939	-.02979	.01252	-.00171	-.28820	.29784	-.96765
4.600	-3.796	-.00900	-.24210	.25574	.10650	-.02470	.01025	-.00131	-.22464	.27120	-.82830
4.600	-1.766	-.01047	-.16521	.24617	.08248	-.02099	.00868	-.00069	-.15754	.25114	-.62731
4.600	-.750	-.01015	-.13626	.24060	.07479	-.02219	.00992	-.00172	-.13310	.24236	-.54918
4.600	.273	-.01144	-.09914	.23707	.06392	-.01897	.00904	-.00115	-.09926	.23660	-.41954
4.600	1.286	-.01230	-.06009	.23343	.05299	-.01705	.00729	-.00079	-.06531	.23203	-.28149
4.600	2.300	-.01216	-.02874	.23024	.04520	-.01771	.00772	-.00136	-.03796	.22891	-.16583
4.600	4.327	-.01347	.04678	.22537	.01938	-.01460	.00518	-.00065	.02964	.22825	.12987
4.600	6.358	-.01429	.11560	.21730	-.00450	-.01394	.00561	-.00095	.09093	.22877	.39702
4.600	8.388	-.01536	.20324	.21286	-.03624	-.01074	.00588	-.00016	.17002	.24023	.70774
4.600	10.429	-.01659	.29726	.20899	-.07206	-.00631	.00397	.00122	.25452	.25934	.99142
	GRADIENT	-.00055	.03527	-.00376	-.01043	.00122	-.00049	.00005	.03104	-.00531	.11775

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(RH8014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = .000 RUDDER = .000
 SFDPRK = .000 DDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.631	-.06602	-.76777	.45840	.28896	.01106	-.00508	.00070	-.67003	.59217	-1.13147
1.600	-8.545	-.06704	-.59857	.45735	.21946	.01173	-.00497	.00130	-.52397	.54121	-.96814
1.600	-6.434	-.06515	-.44738	.45214	.16214	.01027	-.00489	.00150	-.39390	.49942	-.78872
1.600	-4.638	-.06491	-.32269	.44825	.11553	.01117	-.00508	.00254	-.28539	.47287	-.60352
1.600	-2.228	-.05760	-.15672	.44427	.05641	.01410	-.00712	.00255	-.14932	.45041	-.33153
1.600	-1.174	-.06646	-.09984	.44225	.03216	.01241	-.00618	.00207	-.09076	.44421	-.20431
1.600	-.122	-.06666	-.03999	.44152	.01077	.01286	-.00654	.00210	-.03905	.44160	-.08842
1.600	.939	-.06658	.03113	.44069	-.01518	.01357	-.00743	.00227	.02391	.44114	.05421
1.600	1.988	-.06783	.09358	.43843	-.03949	.01510	-.00813	.00230	.07832	.44141	.17743
1.600	4.074	-.06656	.20958	.43369	-.08787	.01432	-.00816	.00218	.17823	.44748	.39830
1.600	6.172	-.06673	.32885	.43266	-.13435	.01437	-.00792	.00294	.28043	.46550	.60242
1.600	8.274	-.06778	.44931	.43216	-.17631	.01508	-.00782	.00301	.38244	.49232	.77681
1.600	10.451	-.06582	.57152	.42974	-.21367	.01253	-.00657	.00282	.48409	.52628	.91993
	GRADIENT	-.00016	.06130	-.00157	-.02316	.00035	-.00025	-.00004	.05345	-.00278	.11639

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.002	-.06995	-.67482	.41335	.25567	.01491	-.00677	.00252	-.59277	.52427	-1.13066
2.000	-7.927	-.06748	-.53034	.40581	.19680	.01235	-.00511	.00225	-.46931	.47508	-.98786
2.000	-5.831	-.06934	-.39934	.39918	.14244	.01409	-.00535	.00275	-.34678	.43667	-.79415
2.000	-4.042	-.06753	-.27821	.39447	.10222	.01332	-.00516	.00279	-.24971	.41310	-.60449
2.000	-1.648	-.06858	-.14529	.39068	.05702	.01433	-.00540	.00250	-.13399	.39470	-.33947
2.000	-.602	-.06912	-.09281	.38865	.03993	.01447	-.00599	.00224	-.08872	.38960	-.22773
2.000	.436	-.06980	-.03951	.38648	.02127	.01496	-.00694	.00232	-.04145	.38618	-.10735
2.000	1.492	-.06955	.01848	.38478	.00097	.01544	-.00685	.00223	.00852	.38512	.02212
2.000	2.521	-.06915	.07064	.38167	-.01878	.01454	-.00617	.00189	.05378	.38441	.13990
2.000	4.615	-.06790	.18913	.38028	-.07033	.01374	-.00509	.00181	.15792	.39427	.40055
2.000	6.707	-.06910	.31364	.39270	-.11995	.01543	-.00591	.00235	.26679	.41672	.60022
2.000	8.221	-.06934	.40938	.38173	-.15493	.01494	-.00612	.00266	.34980	.43620	.80146
2.000	10.092	-.06906	.56318	.37723	-.20196	.01415	-.00545	.00243	.49092	.47770	1.00674
	GRADIENT	-.00010	.05356	-.00175	-.01953	.00007	.00002	-.00011	.04669	-.00230	.11599

ORIGINAL PAGE IS
OF POOR QUALITY

UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7

(RH8014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 480.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = .000 RLODER = .000
 SPOBRK = .000 BDFLAF = .000

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RACE	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.500	-10.907	-.01146	-.65879	.39121	.25202	-.00946	.00359	-.00142	-.57476	.49897	-1.15188
2.500	-8.817	-.01362	-.52857	.37091	.19856	-.00643	.00204	-.00078	-.46547	.44754	-1.04004
2.500	-6.724	-.01356	-.40685	.36156	.15057	-.00715	.00269	-.00068	-.36172	.40671	-.88937
2.500	-4.638	-.01470	-.29570	.35730	.10509	-.00570	.00201	-.00016	-.25587	.37923	-.67471
2.500	-2.566	-.01533	-.19626	.35362	.07404	-.00489	.00156	-.00049	-.17025	.36161	-.47080
2.500	-1.521	-.01672	-.13709	.35310	.06026	-.00272	.00047	-.00011	-.12766	.35661	-.35799
2.500	-.473	-.01920	-.09725	.35198	.04912	-.00019	-.00091	.00058	-.08434	.35269	-.23915
2.500	.554	-.01936	-.04427	.34998	.03714	.00172	-.00198	.00060	-.04765	.34953	-.13632
2.500	1.584	-.02026	.00299	.34708	.02301	.00301	-.00239	.00062	-.00667	.34703	-.01623
2.500	3.659	-.02079	.09455	.34258	-.00916	.00469	-.00375	.00061	.07249	.34802	.20828
2.500	5.736	-.02197	.20398	.34072	-.05149	.00670	-.00491	.00073	.16890	.35941	.46994
2.500	7.819	-.02399	.32105	.33979	-.09793	.00860	-.00557	.00100	.27184	.38030	.71481
2.500	9.907	-.02569	.43765	.33556	-.14256	.01088	-.00673	.00127	.37339	.40586	.92002
	GRADIENT	-.00085	.04571	-.00171	-.01336	.00142	-.00076	.00014	.03948	-.00370	.10685

RUN NO. 0/0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

RACE	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.608	-.01359	-.61359	.36039	.23509	-.00789	.00331	-.00072	-.53677	.46718	-1.14895
2.860	-8.545	-.01379	-.50536	.35119	.19445	-.00644	.00170	-.00053	-.44756	.42238	-1.05961
2.860	-6.457	-.01488	-.39642	.34247	.15667	-.00522	.00129	-.00020	-.35539	.38488	-.92337
2.860	-4.365	-.01720	-.27850	.33375	.11673	-.00221	.00016	.00027	-.25229	.35398	-.71273
2.860	-2.312	-.01801	-.18470	.32544	.08741	-.00199	.00064	-.00036	-.17142	.33263	-.51535
2.860	-1.270	-.01974	-.13422	.32366	.07128	.00074	-.00058	.00043	-.12702	.32656	-.38896
2.860	-.238	-.01939	-.09557	.32127	.06124	.00071	-.00079	.00004	-.09424	.32166	-.29296
2.860	.786	-.01969	-.05333	.31755	.04909	.00203	-.00189	.00026	-.05768	.31679	-.16206
2.860	1.811	-.02101	-.00672	.31547	.03252	.00410	-.00274	.00055	-.01669	.31510	-.05296
2.860	3.890	-.02332	.09502	.31211	-.00169	.00769	-.00437	.00120	.06370	.31714	.20086
2.860	5.936	-.02413	.17899	.30961	-.03769	.00916	-.00517	.00110	.14611	.32547	.44894
2.860	8.015	-.02509	.29454	.30635	-.08356	.01238	-.00714	.00189	.24895	.34443	.72278
2.860	10.091	-.02585	.40552	.30250	-.12599	.01215	-.00745	.00174	.34625	.36886	.93970
	GRADIENT	-.00070	.04369	-.00200	-.01400	.00122	-.00051	.00012	.03796	-.00444	.11058

UFWT 1089/1119 (IA-44) CONFIGURATION 02/14/57

(940014) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRSE = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = .000 RUDDER = .000
 SPDPRK = .000 SPDPLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.520	-.01192	-.49403	.31089	.18399	-.01258	.00454	-.00014	-.42897	.39586	-1.08364
3.900	-9.465	-.01400	-.41120	.30179	.15989	-.00842	.00244	.00024	-.36229	.35903	-1.00911
3.900	-6.432	-.01501	-.33916	.28946	.13946	-.00653	.00147	-.00007	-.30460	.32564	-.93340
3.900	-4.398	-.01745	-.25586	.27867	.11278	-.00275	.00036	.00029	-.23374	.29747	-.78577
3.900	-2.344	-.01751	-.18650	.26913	.09274	-.00315	.00075	-.00035	-.17534	.27654	-.63407
3.900	-1.326	-.01869	-.14099	.26732	.07788	-.00054	-.00049	.00038	-.13477	.27051	-.49919
3.900	-.307	-.01925	-.10647	.26417	.06776	.00074	-.00101	.00027	-.10505	.26474	-.39682
3.900	.709	-.01953	-.07036	.26016	.05667	.00157	-.00142	.00012	-.07357	.25927	-.28375
3.900	1.730	-.01999	-.03265	.25789	.04495	.00283	-.00219	.00029	-.04042	.25678	-.15742
3.900	3.780	-.02202	.04887	.25577	.01769	.00654	-.00344	.00143	.03193	.25804	.12374
3.900	5.809	-.02255	.12524	.24966	-.00922	.00751	-.00375	.00077	.09933	.26105	.38050
3.900	7.865	-.02397	.21744	.24577	-.04420	.00940	-.00439	.00127	.19176	.27321	.68527
3.900	9.910	-.02390	.30050	.24135	-.07342	.00769	-.00291	.00090	.25448	.28946	.87916
	GRADIENT	-.00056	.03724	-.00286	-.01159	.00120	-.00051	.00013	.03249	-.00489	.11203

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.881	-.01347	-.45333	.30165	.16766	-.01192	.00377	.00017	-.39493	.37497	-1.05297
4.600	-7.875	-.01393	-.38652	.28764	.15006	-.01189	.00429	-.00051	-.34346	.33789	-1.01649
4.600	-5.919	-.01566	-.30908	.27509	.12825	-.00779	.00241	-.00023	-.27959	.30500	-.91670
4.600	-3.787	-.01677	-.23902	.26244	.10723	-.00549	.00151	-.00009	-.22117	.27765	-.79656
4.600	-1.772	-.01820	-.16318	.25273	.09343	-.00202	-.00013	.00021	-.15529	.25766	-.60270
4.600	-.744	-.01785	-.12957	.24692	.07326	-.00277	.00030	-.00022	-.12635	.24848	-.50950
4.600	.268	-.01902	-.09948	.24371	.06126	.00057	-.00127	.00044	-.09052	.24329	-.37248
4.600	1.287	-.01902	-.05949	.23922	.05397	.00045	-.00091	.00007	-.06485	.23782	-.27268
4.600	2.297	-.01957	-.02152	.23569	.04253	.00205	-.00156	.00039	-.03099	.23564	-.13153
4.600	4.325	-.01973	.04803	.23069	.02006	.00314	-.00243	.00027	.03050	.23365	.13051
4.600	6.349	-.02110	.12542	.22465	-.00783	.00603	-.00326	.00098	.09981	.23714	.42088
4.600	8.390	-.02152	.20274	.21993	-.03576	.00602	-.00303	.00075	.16862	.24617	.69498
4.600	10.421	-.02236	.28620	.21384	-.06674	.00653	-.00276	.00105	.24289	.26208	.92643
	GRADIENT	-.00037	.03523	-.00391	-.01056	.00108	-.00047	.00003	.03090	-.00541	.11466

UFWT 1089/1119 (IA-44) CONFIGURATION 02/74/57

(R48013) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPDRN = .000 SDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CSL	CL	CD	L/D
1.600	-10.540	-.06503	-.78155	.46293	.30184	.01078	-.00469	.00246	-.59263	.59928	-1.13909
1.600	-9.518	-.06517	-.60600	.45072	.22933	.01015	-.00469	.00269	-.53107	.54540	-.97372
1.600	-8.425	-.06516	-.44886	.45613	.16939	.01109	-.00576	.00351	-.39500	.50350	-.78452
1.600	-7.432	-.06394	-.33085	.45042	.12477	.00990	-.00535	.00332	-.29340	.47566	-.61682
1.600	-6.425	-.06546	-.17295	.44637	.06499	.01162	-.00612	.00341	-.15549	.45274	-.34344
1.600	-5.472	-.06529	-.10543	.44451	.04003	.01155	-.00619	.00332	-.09532	.44657	-.21568
1.600	-4.518	-.06599	-.03894	.44383	.01611	.01229	-.00654	.00359	-.03793	.44390	-.09544
1.600	-3.518	-.06569	.02579	.44264	-.00793	.01296	-.00750	.00390	.01855	.44300	.04187
1.600	-2.518	-.06517	.08940	.44026	-.03160	.01259	-.00755	.00349	.07310	.44306	.16499
1.600	-1.518	-.06718	.20348	.43532	-.08976	.01533	-.00878	.00410	.17200	.44899	.38317
1.600	-0.518	-.06625	.32760	.43477	-.12960	.01431	-.00825	.00456	.27995	.46748	.59672
1.600	0.472	-.06595	.44455	.43399	-.17042	.01311	-.00721	.00425	.37753	.49332	.76528
1.600	1.459	-.06569	.57252	.43172	-.21059	.01275	-.00693	.00429	.45464	.52848	.91705
	GRADIENT	-.00028	.06159	-.00162	-.02345	.00056	-.00039	.00008	.05370	-.00295	.11628

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CSL	CL	CD	L/D
2.000	-10.010	-.06762	-.70564	.41765	.27687	.01320	-.00598	.00288	-.62225	.53401	-1.16524
2.000	-9.039	-.06793	-.55369	.41090	.21409	.01284	-.00527	.00333	-.49167	.48330	-1.01732
2.000	-8.039	-.06751	-.40724	.40417	.15595	.01243	-.00516	.00357	-.36404	.44348	-.82097
2.000	-7.054	-.06734	-.30009	.39906	.11579	.01195	-.00475	.00346	-.27112	.41928	-.64665
2.000	-6.050	-.06784	-.16241	.39619	.06766	.01315	-.00569	.00383	-.15089	.40072	-.37654
2.000	-5.029	-.06893	-.11286	.39309	.05132	.01443	-.00622	.00358	-.10856	.39430	-.27533
2.000	-4.036	-.06936	-.05002	.39175	.02957	.01490	-.00639	.00393	-.05300	.39136	-.13542
2.000	-3.072	-.06806	.00215	.38963	.01038	.01291	-.00526	.00333	-.00787	.38955	-.02019
2.000	-2.115	-.06977	.05996	.38722	-.01074	.01500	-.00617	.00367	.04192	.38944	.10764
2.000	-1.166	-.07021	.17069	.38426	-.05936	.01534	-.00600	.00370	.13947	.39574	.35153
2.000	-0.216	-.06936	.29422	.38535	-.10975	.01321	-.00590	.00339	.24718	.41801	.59132
2.000	0.730	-.06767	.42401	.38531	-.15739	.01171	-.00398	.00360	.35999	.44570	.80770
2.000	1.701	-.06935	.55521	.38309	-.19793	.01353	-.00449	.00426	.47174	.48216	.97839
	GRADIENT	-.00032	.05418	-.00178	-.01993	.00035	-.00011	.00001	.04724	-.00267	.11566

UFWT 1088/1119 (1A-44) CONFIGURATION 02/T4/S7

(R48015) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPCBRK = .000 SPCSLAP = .000

RUN NO. 0/ 0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.500	-10.920	-.01644	-.68535	.37475	.26026	-.00280	.00071	-.00154	-.60190	.49785	-1.20898
2.500	-8.835	-.01724	-.55715	.36347	.21557	-.00167	.00002	-.00136	-.49471	.44473	-1.11238
2.500	-6.755	-.01504	-.43551	.35474	.16560	-.00461	.00176	-.00149	-.39073	.40350	-.96840
2.500	-4.655	-.01604	-.31799	.34992	.12171	-.00412	.00146	-.00105	-.28856	.37457	-.77038
2.500	-2.580	-.01449	-.21521	.34619	.09015	-.00615	.00221	-.00161	-.19941	.35552	-.56090
2.500	-1.532	-.01000	-.16369	.34533	.07589	-.00272	.00059	-.00071	-.15440	.34959	-.44166
2.500	-.499	-.01680	-.12156	.34282	.06591	-.00239	.00029	-.00098	-.11957	.34387	-.34481
2.500	.542	-.01747	-.07186	.34033	.05246	-.00091	-.00076	-.00078	-.07507	.33964	-.22104
2.500	1.582	-.01873	-.02480	.33757	.03735	.00079	-.00130	-.00049	-.03421	.33676	-.10129
2.500	3.648	-.01852	.06995	.33302	.00414	.00152	-.00228	-.00067	.04753	.33672	.14115
2.500	5.718	-.01835	.16952	.32923	-.03422	.00135	-.00220	-.00112	.13587	.34448	.39442
2.500	7.809	-.01916	.29082	.32890	-.08317	.00244	-.00297	-.00069	.24344	.36537	.66628
2.500	9.891	-.02045	.40900	.32431	-.12836	.00419	-.00405	-.00071	.34622	.38957	.88973
	GRADIENT	-.00044	.04633	-.00206	-.01374	.00099	-.00054	.00009	.04023	-.00456	.10976

RUN NO. 0/ 0 RW/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.617	-.01801	-.54572	.35235	.25216	-.00099	.00000	-.00090	-.56974	.46529	-1.22450
2.860	-8.553	-.01741	-.53560	.34319	.21106	-.00121	-.00052	-.00128	-.47860	.41903	-1.14217
2.860	-6.471	-.01773	-.42723	.33367	.17428	-.00135	-.00016	-.00128	-.38690	.37958	-1.01899
2.860	-4.389	-.01945	-.31173	.32389	.13379	-.00078	-.00017	-.00118	-.28603	.34690	-.82477
2.860	-2.331	-.01801	-.21553	.31569	.10218	-.00199	.00064	-.00154	-.20251	.32419	-.62467
2.860	-1.296	-.01909	-.16624	.31469	.08719	.00002	-.00044	-.00099	-.15908	.31837	-.49958
2.860	-.253	-.02026	-.12045	.31314	.07357	.00241	-.00183	-.00051	-.11907	.31356	-.37960
2.860	.771	-.01994	-.07943	.30983	.06183	.00269	-.00230	-.00054	-.08359	.30874	-.27075
2.860	1.795	-.02036	-.04004	.30654	.04837	.00337	-.00259	-.00091	-.04962	.30514	-.16261
2.860	3.861	-.02074	.04946	.30306	.01552	.00385	-.00265	-.00059	.02894	.30570	.09466
2.860	5.927	-.02137	.14830	.29955	-.02207	.00531	-.00365	-.00051	.11658	.31326	.37215
2.860	7.999	-.02196	.25653	.29702	-.06429	.00645	-.00466	-.00039	.21287	.32994	.64517
2.860	10.073	-.02187	.36998	.29241	-.10718	.00655	-.00519	-.00091	.31225	.35246	.88591
	GRADIENT	-.00034	.04346	-.00246	-.01399	.00074	-.00042	.00009	.03789	-.00490	.11152

UWT 1089/1119 (1A-44) CONFIGURATION 02/14/57

(R40015) (03 JAN 75)

REFERENCE DATA

SREF = 8890.0000 SQ.FT. XWRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YWRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZWRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPODRK = .000 BDFLAP = .000

RUN NO. 0/ 0 R/N/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.535	-.01812	-.54620	.29989	.21216	.00022	-.00160	-.00134	-.48216	.39470	-1.22158
3.900	-9.492	-.01828	-.46997	.28910	.19875	.00029	-.00165	-.00195	-.42212	.35534	-1.18794
3.900	-6.457	-.01951	-.39282	.27729	.15741	.00262	-.00282	-.00164	-.35915	.31971	-1.12336
3.900	-4.406	-.01957	-.31249	.26592	.14155	.00223	-.00244	-.00192	-.29112	.28914	-1.00688
3.900	-2.366	-.01992	-.23370	.25749	.11690	.00230	-.00218	-.00185	-.22287	.26692	-.83497
3.900	-1.345	-.01997	-.19616	.25353	.10506	.00263	-.00236	-.00199	-.19015	.25697	-.73682
3.900	-.319	-.02070	-.15360	.25151	.09151	.00436	-.00318	-.00153	-.15220	.25236	-.60312
3.900	.699	-.02097	-.11586	.24813	.08011	.00519	-.00359	-.00154	-.11887	.24670	-.48185
3.900	1.722	-.02065	-.07969	.24554	.06900	.00507	-.00373	-.00162	-.08704	.24303	-.35813
3.900	3.756	-.02129	-.05437	.24130	.06435	.00604	-.00389	-.00130	-.02017	.24049	-.08387
3.900	5.798	-.02200	-.07677	.23673	.01551	.00788	-.00494	-.00130	.05246	.24327	.21557
3.900	7.842	-.02251	.16268	.23226	-.01648	.00796	-.00473	-.00139	.12947	.25228	.51318
3.900	9.889	-.02195	.24584	.22759	-.04586	.00574	-.00339	-.00166	.20311	.26542	.76236
GRADIENT		-.00022	.03781	-.00298	-.01188	.00054	-.00024	.00000	.03328	-.00592	.11432

RUN NO. 0/ 0 R/N/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.906	-.01857	-.52219	.28444	.20121	.00097	-.00206	-.00193	-.46548	.37003	-1.25795
4.600	-7.869	-.01883	-.44378	.27149	.17985	.00098	-.00185	-.00196	-.40243	.32969	-1.22065
4.600	-5.833	-.01917	-.37248	.25910	.15842	.00101	-.00153	-.00266	-.34432	.29462	-1.16858
4.600	-3.806	-.02049	-.29350	.24690	.13371	.00502	-.00389	-.00155	-.27646	.26584	-1.03996
4.600	-1.778	-.02033	-.22507	.23541	.11367	.00440	-.00374	-.00193	-.21766	.24228	-.89839
4.600	-.769	-.02111	-.18502	.23091	.10059	.00655	-.00455	-.00149	-.18190	.23338	-.77944
4.600	.245	-.02010	-.15508	.22617	.09235	.00462	-.00401	-.00241	-.15605	.22551	-.69198
4.600	1.266	-.02063	-.11670	.22277	.09145	.00568	-.00408	-.00211	-.12159	.22014	-.55234
4.600	2.297	-.02095	-.07942	.22050	.07908	.00671	-.00447	-.00183	-.08716	.21719	-.40135
4.600	4.310	-.02092	-.01027	.21474	.04910	.00777	-.00566	-.00196	-.02638	.21336	-.12364
4.600	6.328	-.02124	.06571	.20978	.02222	.00933	-.00563	-.00163	.04229	.21475	.19694
4.600	8.369	-.02159	.14359	.20272	-.00600	.00931	-.00551	-.00187	.11255	.22146	.50822
4.600	10.400	-.02156	.22354	.19756	-.03577	.00713	-.00473	-.00201	.19421	.23467	.79499
GRADIENT		-.00006	.03506	-.00391	-.01043	.00035	-.00018	-.00005	.03100	-.00643	.11464

UFWT 1089/1119 (IA-44) CONFIGURATION 02/14/75

(R48016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -4.000 RUDDER = .000
 SPDRY = .000 DRFLAP = .000

RUN NO. 0/ 0 RNL = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.637	-.06789	-.75897	-.26665	.29542	.01400	-.00079	.00195	-.66982	.60057	-1.11498
1.600	-8.535	-.06964	-.59390	.46516	.22363	.01510	-.00652	.00216	-.51837	.54816	-.94565
1.600	-6.422	-.06769	-.44103	.45930	.16517	.01411	-.00707	.00230	-.38588	.50575	-.76497
1.600	-4.630	-.06745	-.32050	.45434	.11999	.01496	-.00824	.00258	-.28277	.47873	-.59067
1.600	-2.221	-.06755	-.16438	.45119	.06140	.01515	-.00836	.00279	-.14677	.45723	-.32099
1.600	-1.168	-.06641	-.10149	.44908	.03912	.01297	-.00695	.00199	-.09231	.45106	-.20466
1.600	-.114	-.06640	-.03382	.44761	.01424	.01366	-.00768	.00220	-.03293	.44768	-.07356
1.600	.944	-.06789	.03149	.44771	-.01020	.01573	-.00879	.00235	.02411	.44616	.05390
1.600	1.988	-.06642	.08347	.44531	-.03189	.01451	-.00868	.00197	.07297	.44812	.16283
1.600	4.084	-.06726	.21297	.44082	-.08459	.01616	-.00967	.00271	.18093	.45466	.39777
1.600	6.174	-.06832	.32849	.43947	-.12945	.01703	-.00961	.00367	.27932	.47224	.59148
1.600	8.275	-.06769	.44478	.43878	-.17038	.01584	-.00977	.00288	.37700	.49823	.75668
1.600	10.460	-.07004	.57538	.43723	-.21142	.01919	-.00943	.00380	.48644	.53443	.91020
	GRADIENT	.00004	.06112	-.00148	-.02321	.00013	-.00018	-.00002	.05315	-.00265	.11412

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-9.998	-.07123	-.67873	.41911	.26393	.01712	-.00733	.00299	-.59566	.53058	-1.12265
2.000	-7.925	-.06892	-.53624	.41128	.20571	.01347	-.00516	.00254	-.47441	.48129	-.98571
2.000	-5.822	-.06997	-.39170	.40522	.14917	.01547	-.00552	.00333	-.34857	.44287	-.78708
2.000	-4.044	-.07061	-.28366	.40036	.10969	.01608	-.00666	.00361	-.25472	.41937	-.60738
2.000	-1.648	-.06937	-.15188	.39567	.06499	.01537	-.00693	.00308	-.14044	.39997	-.35121
2.000	-.614	-.06894	-.10251	.39280	.04870	.01476	-.00559	.00268	-.09829	.39397	-.24956
2.000	.444	-.07009	-.04159	.39175	.02763	.01604	-.00708	.00314	-.04463	.39142	-.11451
2.000	1.484	-.06944	.01061	.38990	.00988	.01461	-.00660	.00276	.00051	.39005	.00130
2.000	2.528	-.07142	.06533	.38706	-.01223	.01672	-.00671	.00288	.04819	.38957	.12370
2.000	4.520	-.07094	.18081	.38512	-.06179	.01649	-.00669	.00277	.14920	.39844	.37446
2.000	6.700	-.07219	.30403	.38727	-.11179	.01843	-.00767	.00345	.25671	.42013	.61102
2.000	8.811	-.06937	.43359	.38585	-.15933	.01393	-.00496	.00347	.36936	.44772	.82500
2.000	10.998	-.07099	.55375	.38387	-.19492	.01573	-.00561	.00394	.47035	.48246	.97490
	GRADIENT	-.00012	.05333	-.00180	-.01951	.00009	.00002	-.00008	.04638	-.00247	.11360

UFWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(948016) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. REF : 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .3000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -4.000 RUCOER = .000
 SPOBCK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.500	-10.911	-.01729	-.66258	.37955	.25599	-.00154	.00006	-.00069	-.57875	.49811	-1.16190
2.500	-8.809	-.01814	-.52714	.36960	.20199	-.00067	-.00027	-.00050	-.46447	.44497	-1.04382
2.500	-6.722	-.01614	-.40893	.35999	.15367	-.00366	.00114	-.00039	-.36389	.40537	-.89765
2.500	-4.638	-.01775	-.28995	.35489	.10996	-.00216	.00094	-.00016	-.26030	.37717	-.69015
2.500	-2.547	-.01690	-.18595	.35236	.07514	-.00296	.00095	-.00023	-.17002	.36027	-.47193
2.500	-1.516	-.01773	-.13648	.35156	.06187	-.00174	.00031	.00024	-.12713	.35505	-.35806
2.500	-.484	-.01742	-.09671	.34933	.05395	-.00144	-.00021	-.00013	-.09375	.35013	-.25777
2.500	.553	-.01805	-.04822	.34793	.04703	-.00017	-.00004	.00024	-.05157	.34745	-.14843
2.500	1.580	-.01843	-.00435	.34478	.02748	.00048	-.00122	.00006	-.01386	.34453	-.04022
2.500	3.651	-.01960	.08919	.34023	-.00517	.00251	-.00239	.00004	.06732	.34572	.19572
2.500	5.730	-.01957	.19636	.33740	-.04634	.00295	-.00268	-.00017	.16169	.35531	.45506
2.500	7.825	-.02019	.31773	.33797	-.09452	.00342	-.00314	.00037	.26876	.37799	.71104
2.500	9.902	-.01923	.43175	.33190	-.13773	.00234	-.00309	-.00044	.36925	.40120	.91787
	GRADIENT	-.00025	.04525	-.00178	-.01332	.00062	-.00042	.00003	.03905	-.00384	.10578

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

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.612	-.01913	-.61887	.35838	.24032	.00046	-.00048	.00001	-.54229	.46623	-1.16314
2.860	-8.539	-.01846	-.50802	.34951	.19834	.00021	-.00105	.00009	-.45049	.42107	-1.06997
2.860	-6.461	-.01839	-.39548	.34055	.15900	-.00062	-.00031	.00008	-.35465	.38289	-.92625
2.860	-4.367	-.01809	-.28575	.33109	.12251	-.00113	-.00015	-.00008	-.25971	.35189	-.73904
2.860	-2.316	-.01974	-.18456	.32398	.08923	.00046	-.00036	.00018	-.17132	.33118	-.51731
2.860	-1.276	-.01959	-.14134	.32133	.07618	.00041	-.00037	-.00016	-.13415	.32440	-.41353
2.860	-.256	-.01939	-.09781	.31952	.06377	.00071	-.00090	-.00001	-.09638	.31995	-.30125
2.860	.797	-.02036	-.05068	.31725	.04949	.00098	-.00237	.00063	-.05509	.31652	-.17475
2.860	1.823	-.02046	-.00977	.31467	.03522	.00009	-.00214	.00049	-.01977	.31424	-.05975
2.860	3.873	-.02117	.07831	.31043	.00311	.00424	-.00266	.00042	.05716	.31501	.18145
2.860	5.946	-.02186	.17842	.30712	-.03544	.00571	-.00359	.00054	.14565	.32395	.44990
2.860	8.001	-.02206	.28092	.30306	-.07558	.00616	-.00421	.00033	.23600	.33921	.69574
2.860	10.088	-.02100	.39705	.29903	-.12023	.00487	-.00417	.00032	.33953	.36396	.93015
	GRADIENT	-.00034	.04393	-.00243	-.01414	.00069	-.00036	.00008	.03913	-.00437	.11159

UPWT 1088/1119 (1A-44) CONFIGURATION 02/14/67

(RH8D16) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -4.000
 ELV-LI = 8.000 ELV-RI = 9.000
 ELV-RD = -4.000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.517	-.01901	-.49474	.30872	.18595	.00164	-.00201	.00063	-.43008	.39384	-1.09201
3.900	-8.481	-.01907	-.41997	.29928	.16357	.00126	-.00169	.00007	-.37139	.35696	-1.04040
3.900	-6.437	-.01997	-.34315	.28659	.14207	.00269	-.00225	.00016	-.30985	.32326	-.95544
3.900	-4.390	-.02020	-.26255	.27539	.11070	.00276	-.00210	-.00000	-.24075	.29463	-.81713
3.900	-2.346	-.02048	-.18529	.26706	.09302	.00282	-.00200	-.00002	-.17420	.27443	-.63478
3.900	-1.319	-.02059	-.14602	.26389	.08070	.00316	-.00210	.00001	-.13991	.26718	-.52364
3.900	-.300	-.02132	-.09657	.26107	.06996	.00489	-.00292	.00038	-.10520	.26163	-.40211
3.900	.720	-.02075	-.07039	.25733	.05789	.00390	-.00241	-.00013	-.07362	.25642	-.28711
3.900	1.744	-.02134	-.02952	.25542	.04482	.00562	-.00340	.00023	-.03728	.25440	-.14653
3.900	3.778	-.02146	.04264	.25084	.02124	.00566	-.00320	.00024	.02601	.25311	.10278
3.900	5.819	-.02223	.12553	.24688	-.00765	.00750	-.00419	.00032	.09985	.25833	.38651
3.900	7.866	-.02268	.21148	.24237	-.03998	.00755	-.00406	.00030	.17632	.26903	.65541
3.900	9.906	-.02228	.29796	.23835	-.07037	.00581	-.00299	.00006	.25241	.28504	.88243
	GRADIENT	-.00016	.03752	-.00299	-.01170	.00042	-.00017	.00004	.03284	-.00506	.11418

RUN NO. 0/ 0 RN/L = 1.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.825	-.01880	-.46051	.29824	.17230	.00048	-.00108	.00025	-.40241	.37295	-1.07901
4.600	-7.857	-.01851	-.38899	.29491	.15281	-.00125	-.00016	-.00000	-.34639	.33542	-1.03270
4.600	-5.825	-.01910	-.31724	.27207	.13274	-.00009	-.00038	-.00063	-.28600	.30282	-.95106
4.600	-3.793	-.01904	-.24639	.25958	.11160	-.00014	-.00063	-.00008	-.22928	.27535	-.83266
4.600	-1.760	-.01972	-.17442	.24869	.08986	.00157	-.00157	-.00061	-.16570	.25393	-.65650
4.600	-.747	-.02043	-.13233	.24448	.07593	.00372	-.00259	-.00016	-.12913	.24619	-.52454
4.600	.272	-.02069	-.09409	.24110	.06465	.00473	-.00308	.00012	-.09523	.24065	-.39573
4.600	1.278	-.02108	-.05574	.23757	.05370	.00575	-.00336	.00040	-.06103	.23626	-.25831
4.600	2.304	-.02073	-.01970	.23427	.04269	.00508	-.00294	.00006	-.02911	.23329	-.12476
4.600	4.336	-.02076	.04831	.22904	.02225	.00611	-.00403	.00013	.03086	.23204	.13299
4.600	6.355	-.02101	.12213	.22304	-.00328	.00664	-.00410	.00017	.09669	.23518	.41112
4.600	8.388	-.02091	.19579	.21623	-.03018	.00545	-.00343	-.00006	.16215	.24248	.66872
4.600	10.421	-.02134	.28347	.21214	-.06324	.00544	-.00320	-.00011	.24042	.25992	.92500
	GRADIENT	-.00022	.03673	-.00370	-.01111	.00080	-.00040	.00015	.03243	-.00526	.12159

ORIGINAL PAGE IS
OF POOR QUALITY

FWT 1088/1119 (IA-44) CONFIGURATION CR/T4/S7

(RHS017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SFDSTRK = .000 BCFCLAF = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.635	-.06497	-.77539	.46309	.29082	.01099	-.00586	.00108	-.67651	.59923	-1.13103
1.600	-9.537	-.06420	-.60601	.46148	.22849	.01010	-.00549	.00128	-.53079	.54633	-.97155
1.600	-8.420	-.06585	-.44580	.45590	.16695	.01380	-.00743	.00213	-.39203	.50288	-.77957
1.600	-4.621	-.06534	-.32116	.45140	.11998	.01150	-.00609	.00183	-.28376	.47580	-.59637
1.600	-2.222	-.06314	-.17056	.44832	.06414	.00873	-.00490	.00111	-.15305	.45459	-.33658
1.600	-1.171	-.06469	-.10405	.44760	.03976	.01081	-.00596	.00159	-.09489	.44964	-.21101
1.600	-.106	-.06440	-.03364	.44538	.01451	.01073	-.00603	.00167	-.03282	.44644	-.07351
1.600	.935	-.06525	.02520	.44539	-.00734	.01199	-.00676	.00158	.01793	.44574	.04023
1.600	1.988	-.06605	.09789	.44404	-.03082	.01349	-.00780	.00199	.07243	.44682	.16211
1.600	4.087	-.06376	.20882	.43871	-.09196	.01136	-.00717	.00177	.17713	.45248	.39146
1.600	6.171	-.06565	.32550	.43772	-.12710	.01336	-.00767	.00212	.27657	.47017	.59822
1.600	8.278	-.06447	.44990	.43043	-.17079	.01185	-.00695	.00214	.38208	.49864	.76626
1.600	10.460	-.06277	.57314	.43584	-.20939	.00933	-.00531	.00192	.48649	.53282	.91306
	GRADIENT	.00000	.06102	-.00135	-.02304	.00022	-.00024	.00003	.05310	-.00256	.11462

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.025	-.06582	-.70268	.42042	.27292	.01023	-.00415	.00127	-.61876	.53633	-1.15370
2.000	-7.951	-.06777	-.55285	.41410	.21053	.01168	-.00449	.00171	-.49026	.48659	-1.00755
2.000	-5.841	-.06636	-.40569	.40662	.15167	.01022	-.00359	.00149	-.36221	.44580	-.81249
2.000	-4.054	-.06546	-.29920	.40256	.11216	.00927	-.00331	.00173	-.25999	.42271	-.63671
2.000	-1.665	-.06607	-.16227	.39945	.06562	.00973	-.00330	.00167	-.15059	.40309	-.37276
2.000	-.620	-.06666	-.10075	.39712	.04756	.01045	-.00363	.00160	-.10445	.39828	-.26225
2.000	.428	-.06646	-.05263	.39469	.02862	.01061	-.00401	.00138	-.05553	.39428	-.14096
2.000	1.474	-.06770	.00136	.39276	.00938	.01100	-.00413	.00120	-.00874	.39266	-.02227
2.000	2.524	-.06693	.06222	.39068	-.01348	.01048	-.00353	.00137	.04495	.39304	.11438
2.000	4.605	-.06612	.17407	.38793	-.06103	.01024	-.00371	.00076	.14236	.40065	.35533
2.000	6.699	-.06654	.29846	.39029	-.11262	.01063	-.00386	.00147	.25090	.42244	.59392
2.000	8.707	-.06561	.42734	.38869	-.15909	.00950	-.00234	.00155	.36287	.44947	.80732
2.000	10.995	-.06545	.55237	.38608	-.19579	.00844	-.00205	.00137	.45867	.48427	.96779
	GRADIENT	-.00012	.05438	-.00178	-.01970	.00015	-.00006	-.00011	.04737	-.00263	.11500

UPWT 1088/1119 (IA-44) CONFIGURATION 02/T4/S7

(R48017) (03 JAN 75)

REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = .000
 ELV-LI = 4.000 ELV-RI = 4.000
 ELV-RD = .000 RUDDER = .000
 SPDRK = .000 BDFLAP = .000

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CS	L/D
2.500	-10.922	-.01424	-.66800	.37934	.25949	-.00534	.00131	-.00165	-.58402	.49903	-1.17031
2.500	-8.812	-.01501	-.53174	.36898	.20474	-.00450	.00114	-.00102	-.46894	.44608	-1.05125
2.500	-6.728	-.01394	-.41365	.35938	.15671	-.00691	.00264	-.00125	-.36869	.40536	-.90954
2.500	-4.639	-.01439	-.29119	.35565	.11090	-.00631	.00240	-.00060	-.26147	.37804	-.69164
2.500	-2.564	-.01525	-.19254	.35235	.07982	-.00518	.00181	-.00037	-.17659	.36061	-.48967
2.500	-1.523	-.01708	-.14099	.35203	.06492	-.00238	.00043	-.00022	-.13159	.35566	-.36999
2.500	-.497	-.01812	-.09339	.35042	.05354	-.00047	-.00066	.00000	-.09040	.35120	-.25741
2.500	.551	-.01741	-.05140	.34855	.04273	-.00091	-.00083	-.00002	-.05475	.34804	-.15732
2.500	1.593	-.01799	-.00863	.34446	.03036	-.00014	-.00093	-.00045	-.01820	.34409	-.05291
2.500	3.655	-.01993	.00698	.34011	-.00396	.00314	-.00280	-.00012	.06512	.34496	.18978
2.500	5.736	-.02071	.19335	.33797	-.04482	.00453	-.00361	-.00010	.15862	.35560	.44601
2.500	7.821	-.02320	.31263	.33785	-.09254	.00753	-.00497	.00085	.26375	.37725	.69914
2.500	9.911	-.02350	.43297	.33336	-.13947	.00773	-.00522	.00041	.36904	.40209	.91599
	GRADIENT	-.00064	.04522	-.00197	-.01333	.00114	-.00063	.00007	.03902	-.00397	.10577

RUN NO. 0/0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CS	L/D
2.860	-10.613	-.01379	-.62557	.35944	.24317	-.00722	.00274	-.00095	-.54885	.46753	-1.17394
2.860	-8.545	-.01523	-.51821	.34920	.20334	-.00434	.00079	-.00091	-.46059	.42232	-1.09058
2.860	-6.454	-.01655	-.39975	.34207	.16174	-.00276	.00022	-.00005	-.35877	.38483	-.93227
2.860	-4.382	-.01646	-.29338	.33142	.12600	-.00325	.00057	-.00059	-.26720	.35287	-.75721
2.860	-2.306	-.01883	-.18778	.32442	.09071	-.00093	.00028	-.00010	-.17458	.33171	-.52629
2.860	-1.276	-.01897	-.14341	.32194	.07759	-.00063	.00017	-.00029	-.13621	.32505	-.41904
2.860	-.244	-.01975	-.10125	.32029	.06566	.00107	-.00083	.00002	-.09998	.32072	-.31142
2.860	.789	-.02033	-.05672	.31712	.05185	.00274	-.00052	.00033	-.06108	.31631	-.19310
2.860	1.820	-.02150	-.01125	.31497	.03611	.00447	-.00264	.00071	-.02125	.31445	-.06756
2.860	3.867	-.02163	.07212	.30994	.00568	.00492	-.00297	.00031	.05105	.31410	.16253
2.860	5.930	-.02358	.17561	.30734	-.03443	.00813	-.00457	.00001	.14287	.32387	.44113
2.860	8.012	-.02456	.28387	.30411	-.07746	.00995	-.00595	.00125	.23971	.34071	.70064
2.860	10.085	-.02387	.39372	.30034	-.11893	.00908	-.00595	.00094	.33505	.36464	.91285
	GRADIENT	-.00063	.04391	-.00253	-.01423	.00108	-.00051	.00013	.03821	-.00458	.11133

UPWT 1088/1119 (1A-44) CONFIGURATION 02/T4/57

(RH8017) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-L1 = 4.000 ELV-RI = 4.000
 ELV-R0 = .000 RUDDER = .000
 SPOBRK = .000 SCFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.520	-.02643	-.50105	.30884	-.18748	-.00427	.00123	-.00027	-.43684	.39524	-1.10526
3.900	-8.495	-.01721	-.42451	.29949	-.15445	-.00294	.00047	-.00070	-.37563	.35783	-1.04974
3.900	-6.439	-.01021	-.34936	.28601	-.14357	-.00096	-.00049	-.00072	-.31509	.32339	-.97432
3.900	-4.392	-.01925	-.26254	.27592	-.11568	.00049	-.00089	-.00033	-.24064	.29522	-.81511
3.900	-2.355	-.02051	-.18540	.26815	-.09189	.00239	-.00146	-.00004	-.17423	.27555	-.63229
3.900	-1.330	-.02049	-.15086	.26468	-.08194	.00270	-.00171	-.00017	-.14468	.26911	-.53952
3.900	-.311	-.02008	-.11314	.26099	-.07016	.00216	-.00149	-.00059	-.11172	.26160	-.42707
3.900	.714	-.02172	-.05902	.25905	-.05624	.00572	-.00316	.00038	-.07224	.25917	-.27982
3.900	1.737	-.02085	-.03759	.25590	-.04747	.00426	-.00251	-.00040	-.04533	.25465	-.17802
3.900	3.777	-.02233	.00089	.25252	-.02162	.00704	-.00358	.00051	.02417	.25466	.09489
3.900	5.817	-.02256	.11743	.24735	-.00465	.00753	-.00377	-.00004	.09175	.25799	.35565
3.900	7.859	-.02337	.20639	.24202	-.03962	.00907	-.00369	-.00002	.17125	.26876	.63718
3.900	9.899	-.02349	.29115	.23910	-.06948	.00723	-.00296	.00005	.24571	.28560	.86032
	GRADIENT	-.00033	.03709	-.00288	-.01144	.00077	-.00033	.00007	.03239	-.00499	.11208

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.884	-.01690	-.45486	.30051	-.17431	-.00424	.00099	-.00014	-.40637	.37585	-1.08122
4.600	-7.870	-.01782	-.38913	.28782	-.15280	-.00302	.00098	-.00025	-.34605	.33839	-1.02266
4.600	-5.827	-.01789	-.32227	.27452	-.13469	-.00304	.00098	-.00106	-.29273	.30582	-.95720
4.600	-3.795	-.01909	-.24796	.26280	-.11266	-.00015	-.00051	-.00050	-.23002	.27864	-.82553
4.600	-1.774	-.01948	-.18014	.25107	-.09165	.00096	-.00128	-.00075	-.17228	.25653	-.67158
4.600	-.752	-.01897	-.14418	.24577	-.08096	-.00037	-.00049	-.00133	-.14095	.24764	-.56916
4.600	.275	-.01969	-.10601	.24231	-.06971	.00180	-.00150	-.00068	-.10717	.24180	-.44323
4.600	1.285	-.02092	-.05973	.24004	-.05545	.00516	-.00297	.00026	-.06510	.23864	-.27281
4.600	2.301	-.02034	-.02987	.23599	-.04706	.00385	-.00228	-.00050	-.03932	.23459	-.16760
4.600	4.327	-.02072	.03792	.23065	-.02632	.00552	-.00342	-.00029	.02041	.23295	.09765
4.600	6.359	-.02150	.11742	.22479	-.00214	.00722	-.00392	.00023	.09180	.23641	.38831
4.600	8.384	-.02137	.19901	.21831	-.02764	.00550	-.00269	-.00061	.15516	.24353	.63713
4.600	10.412	-.02224	.27441	.21380	-.05979	.00664	-.00298	.00010	.23126	.25997	.88989
	GRADIENT	-.00024	.03582	-.00386	-.01078	.00080	-.00038	.00007	.03148	-.00553	.11616

UPWT 1088/1119 (IA-44) CONFIGURATION T4

(RH8018) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YHRF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZHRF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TANK = 1.000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
2.860	-10.116	-.00105	-.17121	.14097	.02272	.00518	-.00302	.00037	-.14379	.16885	-.85158
2.860	-8.098	-.00049	-.13462	.13771	.01643	.00446	-.00306	.00007	-.11388	.15530	-.73332
2.860	-6.072	-.00029	-.10007	.13482	.01277	.00376	-.00275	-.00001	-.08525	.14465	-.58934
2.860	-4.051	.00005	-.07003	.13230	.01102	.00307	-.00235	-.00019	-.06051	.13692	-.44190
2.860	-2.027	.00012	-.03737	.13169	.00986	.00272	-.00199	-.00004	-.03269	.13293	-.24595
2.860	-1.019	.00069	-.02866	.13042	.01159	.00156	-.00162	-.00024	-.02633	.13091	-.20115
2.860	.004	-.00064	-.00972	.13139	.01114	.00333	-.00209	-.00001	-.00973	.13138	-.07403
2.860	1.006	.00026	.00009	.12969	.01238	.00183	-.00178	-.00015	-.00219	.12966	-.01689
2.860	2.026	.00039	.01217	.12908	.01305	.00132	-.00160	-.00024	.00760	.12943	.05872
2.860	4.045	.00042	.04041	.12793	.01428	.00128	-.00149	-.00026	.03128	.13046	.23990
2.860	6.070	.00058	.07297	.12750	.01296	.00061	-.00091	-.00022	.05908	.13450	.43922
2.860	8.096	.00096	.10492	.12733	.01161	.00007	-.00082	-.00024	.08584	.14083	.60954
2.860	10.128	.00090	.14575	.12873	.00675	.00019	-.00091	-.00016	.12084	.15236	.79311
GRADIENT		.00004	.01340	-.00055	.00048	-.00023	.00009	-.00001	.01110	-.00080	.08281

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
4.600	-9.478	-.00143	-.13390	.10915	.01087	.00713	-.00289	.00017	-.11410	.12971	-.87963
4.600	-7.469	-.00134	-.10497	.10696	.00792	.00590	-.00213	.00005	-.09018	.11969	-.75340
4.600	-5.454	-.00094	-.07771	.10436	.00643	.00462	-.00187	-.00009	-.06744	.11128	-.60604
4.600	-3.441	-.00091	-.04666	.10267	.00416	.00499	-.00209	-.00013	-.04042	.10528	-.38390
4.600	-1.435	-.00059	-.02107	.10061	.00433	.00479	-.00226	-.00009	-.01855	.10110	-.18345
4.600	-.421	-.00091	-.00683	.10044	.00413	.00550	-.00266	.00003	-.00609	.10048	-.06063
4.600	.577	-.00034	.00162	.09920	.00507	.00351	-.00205	-.00021	.00063	.09921	.00640
4.600	1.596	-.00069	.01951	.09757	.00325	.00371	-.00191	-.00010	.01679	.09809	.17117
4.600	2.603	-.00015	.02608	.09599	.00466	.00223	-.00174	-.00035	.02170	.09707	.22352
4.600	4.609	-.00009	.05165	.09505	.00486	.00207	-.00151	-.00029	.04378	.09979	.43870
4.600	6.619	-.00006	.08083	.09623	.00308	.00243	-.00173	-.00024	.06920	.10491	.65961
GRADIENT		.00010	.01215	-.00092	.00006	-.00044	.00010	-.00003	.01041	-.00077	.10254

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1089/1119 (IA-44) CONFIGURATION T4

(RH8019) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT, XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 TANK = 1.000

RUN NO. 0/0 RIN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.133	-.00082	-.01877	.13289	.01321	.16606	-.00861	.00062	-.01877	.13289	-.14120
2.860	-8.118	-.00128	-.01577	.13226	.01241	.12500	-.00238	.00039	-.01577	.13226	-.11925
2.860	-6.082	-.000638	-.01395	.13148	.01186	.08941	.00085	.00024	-.01394	.13148	-.10601
2.860	-4.052	-.00052	-.01331	.13045	.01147	.05790	.00028	.00006	-.01329	.13045	-.10199
2.860	-2.010	-.01070	-.01376	.12999	.01184	.02995	-.00072	-.00006	-.01374	.12999	-.10570
2.860	.001	-.01191	-.01314	.13062	.01178	.00136	-.00171	-.00017	-.01311	.13063	-.10036
2.860	2.013	-.01190	-.01148	.13074	.01092	-.02495	-.00027	-.00029	-.01145	.13074	-.08760
2.860	4.045	-.01403	-.01202	.13106	.01091	-.05385	-.00415	-.00057	-.01199	.13106	-.09149
2.860	6.094	-.01172	-.01144	.13212	.01032	-.08534	-.00358	-.00078	-.01141	.13212	-.08635
2.860	8.124	-.01023	-.01077	.13241	.01011	-.12083	.00007	-.00097	-.01074	.13241	-.08113
2.860	10.241	-.00123	-.01127	.13131	.00934	-.16567	.00768	-.00132	-.01127	.13131	-.08579
	GRADIENT	-.00051	.00024	.00010	-.00012	-.01372	-.00055	-.00007	.00024	.00010	.00192

RUN NO. 0/0 RIN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-10.066	.59030	.00226	.10184	.00370	.14553	-.00764	.00030	.00123	.10185	.01204
4.600	-8.067	.57594	.00283	.10087	.00333	.11376	-.00340	.00009	.00181	.10089	.01799
4.600	-6.063	.57291	.00160	.10030	.00408	.08360	-.00106	-.00003	.00059	.10032	.00590
4.600	-4.011	.57891	.00221	.09993	.00432	.05606	-.00025	-.00017	.00121	.09994	.01222
4.600	-1.999	.57706	.00290	.09974	.00442	.02798	-.00050	-.00015	.00190	.09976	.01928
4.600	.000	.57439	-.00032	.09789	.00559	.00297	-.00181	-.00039	-.00130	.09788	-.01325
4.600	1.982	.58041	.00404	.09911	.00444	-.02248	-.00268	-.00046	.00304	.09914	.03066
4.600	4.058	.58621	.00462	.09845	.00429	-.04898	-.00305	-.00052	.00362	.09849	.03670
4.600	6.056	.58532	.00511	.09890	.00353	-.07754	-.00134	-.00052	.00410	.09895	.04144
4.600	8.091	.58645	.00746	.09995	.00196	-.10772	.00119	-.00077	.00645	.09903	.05515
4.600	10.171	.58919	.00988	.09971	.00090	-.13937	.00346	-.00088	.00885	.09981	.08870
	GRADIENT	.00090	.00030	-.00003	-.00000	-.01294	-.00040	-.00005	.00030	-.00003	.00300

UPWT 1088/1119 (1A-44) CONFIGURATION 02/74

(RH0020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RP = .0000 IN. YT
 RREF = 1290.3000 INCHES Z4RP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-L0 = .000
 ELV-L1 = .000 ELV-R1 = .000
 ELV-R0 = .000 RUCDER = .000
 SPDRK = .000 SDPLAF = .000

RUN NO. 0/0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.500	-10.702	-.00050	-.43382	.28993	.21037	-.00168	.00193	-.00042	-.37262	.36446	-1.02239
2.500	-8.648	.00201	-.34703	.28314	.17244	-.00318	.00157	-.00054	-.30051	.33210	-.90490
2.500	-6.581	.00253	-.26950	.27661	.13776	-.00313	.00134	-.00042	-.23652	.30567	-.77214
2.500	-4.336	.00342	-.19845	.27063	.10716	-.00361	.00109	-.00059	-.17642	.28548	-.61799
2.500	-2.502	.00302	-.13194	.26526	.07846	-.00334	.00070	-.00073	-.12023	.27077	-.44404
2.500	-1.463	.00147	-.09415	.26349	.06298	-.00118	-.00031	-.00012	-.09739	.26580	-.32877
2.500	-.450	.00238	-.06285	.26129	.04935	-.00202	-.00023	-.00038	-.06080	.26177	-.23225
2.500	.567	.00400	-.03651	.25795	.03704	-.00403	.00052	-.00102	-.03905	.25750	-.15164
2.500	1.601	.00394	.00016	.25683	.02159	-.00247	-.00033	-.00040	-.00702	.25673	-.02735
2.500	3.649	.00273	.07323	.25245	-.01102	-.00173	-.00113	-.00026	.05701	.25661	.22216
2.500	5.697	.00423	.13501	.24790	-.03834	-.00421	.00007	-.00119	.10978	.26006	.42213
2.500	7.739	.00214	.20645	.24573	-.06866	-.00133	-.00121	-.00062	.17148	.27129	.63209
2.500	9.794	.00082	.27514	.24226	-.09610	-.00017	-.00125	-.00079	.22992	.28553	.80522
GRADIENT	-.00000	.03278	-.00221	-.01423	.00017	-.00024	.00003	.02812	-.00353	.10172	

RUN NO. 0/0 RVAL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.448	-.00103	-.41768	.27748	.19733	-.00134	.00211	-.00036	-.36044	.34862	-1.03389
2.860	-8.400	-.00005	-.34124	.27217	.16658	-.00166	.00179	-.00020	-.29782	.31911	-.93329
2.860	-6.347	.00026	-.26593	.26469	.13673	-.00129	.00139	-.00004	-.23603	.29257	-.80575
2.860	-4.296	-.00032	-.20087	.25662	.10946	-.00069	.00111	-.00005	-.18119	.27000	-.66869
2.860	-2.259	-.00059	-.13434	.24979	.08127	-.00021	.00058	.00006	-.12439	.25489	-.48800
2.860	-1.243	-.00059	-.10414	.24694	.06871	.00017	.00014	.00014	-.09876	.24914	-.39639
2.860	-.231	.00014	-.07731	.24392	.05760	-.00074	.00042	-.00025	-.07632	.24423	-.31251
2.860	.791	.00007	-.04597	.24161	.04477	-.00035	.00004	-.00010	-.04930	.24095	-.20462
2.860	1.821	.00009	-.01349	.23952	.03181	-.00026	-.00009	-.00008	-.02109	.23897	-.08826
2.860	3.853	-.00033	.04901	.23486	.00562	.00054	-.00002	-.00003	.03312	.23762	.13936
2.860	5.901	-.00050	.11590	.23079	-.02307	.00072	-.00109	-.00024	.09157	.24159	.37934
2.860	7.939	-.00112	.18113	.22784	-.05048	.00127	-.00104	-.00035	.14793	.25057	.59011
2.860	9.982	-.00151	.24773	.22504	-.07771	.00210	-.00155	-.00008	.20497	.26458	.77471
GRADIENT	.00005	.03039	-.00254	-.01258	.00010	-.00021	-.00001	.02602	-.00405	.09971	

ORIGINAL PAGE IS OF POOR QUALITY

UPWT 1088/1119 (1A-44) CONFIGURATION CR/T4

(RHS020) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BRREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 RUDDER = .000
 SPOBRK = .000 BDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CL	CL	CD	L/D
3.900	-10.429	-.00232	-.33276	.23869	.13742	.00101	.00139	.00038	-.28406	.29498	-.96296
3.900	-8.399	-.00219	-.27971	.23341	.12047	.00102	.00074	.00069	-.24261	.27176	-.89274
3.900	-6.377	-.00208	-.22481	.22646	.10266	.00226	.00083	.00084	-.19826	.25003	-.79295
3.900	-4.348	-.00201	-.17351	.21500	.08313	.00162	.00099	.00019	-.15671	.22753	-.68873
3.900	-2.319	-.00246	-.12131	.20591	.06447	.00262	.00003	.00022	-.11288	.21065	-.53586
3.900	-1.301	-.00335	-.09191	.20280	.05397	.00442	-.00092	.00073	-.08728	.20483	-.42611
3.900	-.295	-.00246	-.06997	.19917	.04590	.00276	-.00015	.00018	-.06894	.19952	-.34553
3.900	.721	-.00252	-.04500	.19679	.03760	.00326	-.00064	.00023	-.04747	.19521	-.24192
3.900	1.741	-.00298	-.01994	.19512	.02975	.00378	-.00073	.00043	-.02586	.19442	-.13299
3.900	3.760	-.00340	.02673	.19056	.01303	.00306	-.00079	-.00021	.01418	.19190	.07388
3.900	5.789	-.00250	.07937	.18537	-.00743	.00318	-.00124	-.00015	.06026	.19243	.31317
3.900	7.816	-.00160	.13259	.18173	-.02894	.00120	-.00016	-.00074	.10665	.19907	.53843
3.900	9.845	-.00230	.19629	.18101	-.05395	.00267	-.00093	-.00021	.16244	.21191	.76657
	GRADIENT	-.00004	.02469	-.00294	-.00860	.00016	-.00019	-.00004	.02108	-.00431	.09490

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	Cy	CYN	CL	CL	CD	L/D
4.600	-9.827	-.00031	-.32280	.23715	.13687	-.00329	.00350	-.00044	-.27759	.28876	-.96131
4.600	-7.816	-.00029	-.27847	.23008	.12443	-.00230	.00291	-.00060	-.24460	.26582	-.92017
4.600	-5.794	-.00092	-.21904	.22041	.10312	.00037	.00154	.00019	-.19467	.24130	-.80678
4.600	-3.767	-.00054	-.17426	.20626	.08699	-.00106	.00212	-.00069	-.16033	.21726	-.73797
4.600	-1.752	-.00033	-.12686	.19337	.06878	-.00148	.00102	-.00116	-.12088	.19716	-.61314
4.600	-.735	-.00097	-.09290	.19050	.05657	.00076	.00035	-.00027	-.09044	.19168	-.47185
4.600	.265	-.00041	-.07440	.18580	.05132	-.00080	.00116	-.00100	-.07526	.18545	-.40580
4.600	1.279	-.00099	-.05194	.18256	.04467	.00091	.00005	-.00068	-.05600	.18136	-.30881
4.600	2.294	-.00100	-.02941	.17997	.03849	.00152	-.00046	-.00053	-.03659	.17864	-.20491
4.600	4.307	-.00061	.01346	.17452	.02520	.00001	.00015	-.00085	.00032	.17504	.00182
4.600	6.327	.00003	.05975	.16914	.00798	-.00153	.00037	-.00146	.04075	.17469	.23327
4.600	8.349	-.00016	.10910	.16525	-.01052	-.00095	-.00002	-.00107	.08394	.17934	.46906
4.600	10.372	-.00026	.16752	.16325	-.03366	-.00067	-.00002	-.00099	.13539	.19075	.70991
	GRADIENT	-.00004	.02327	-.00391	-.00754	.00025	-.00030	.00001	.01994	-.00510	.09290

UPWT 1068/1119 (IA-44) CONFIGURATION 02/T4

(RH8021) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RJ = .000 RUDDER = .000
 SFDRBK = .000 BDFLAP = .000

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	Cy	CYN	CSL	CL	CD	L/D
2.860	-10.306	-.22371	-.06149	.24984	.03929	.40904	-.15973	.03914	-.06051	.25008	-.24197
2.860	-8.256	-.23269	-.06659	.24765	.04486	.31626	-.12245	.04675	-.06557	.24792	-.26449
2.860	-6.190	-.22265	-.07015	.24707	.04893	.23217	-.08915	.03526	-.06919	.24734	-.27974
2.860	-4.111	-.22249	-.07386	.24498	.05376	.15044	-.05697	.02326	-.07291	.24526	-.29729
2.860	-2.020	-.21991	-.07582	.24441	.05702	.07304	-.02758	.01144	-.07488	.24470	-.30601
2.860	-.019	-.21895	-.07273	.24224	.05453	-.00198	.00179	-.00032	-.07180	.24251	-.29607
2.860	2.040	-.21920	-.07432	.24320	.05514	-.07443	.02939	-.01184	-.07339	.24349	-.30142
2.860	4.119	-.21625	-.07052	.24426	.05101	-.14795	.05675	-.02347	-.06960	.24453	-.28463
2.860	6.197	-.22010	-.06947	.24437	.04928	-.22679	.09716	-.03534	-.06953	.24463	-.26915
2.860	8.262	-.22176	-.06578	.24592	.04524	-.31566	.12249	-.04774	-.06483	.24607	-.26347
2.860	10.372	-.22691	-.06065	.24639	.04042	-.40440	.15787	-.05987	-.05968	.24653	-.24200
	GRADIENT	.00064	.00040	-.00013	-.00036	-.03627	.01384	-.00569	.00039	-.00013	.00146

RUN NO. 0/ 0 RWL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	Cy	CYN	CSL	CL	CD	L/D
3.900	-10.205	-.27881	-.06204	.21358	.03647	.34859	-.13435	.04893	-.06100	.21387	-.29523
3.900	-8.161	-.28431	-.06967	.20993	.04157	.27410	-.10402	.03810	-.06763	.20927	-.32318
3.900	-6.135	-.28893	-.07367	.20528	.04645	.20022	-.07413	.02772	-.07264	.20565	-.35322
3.900	-4.076	-.28584	-.07158	.20445	.04778	.13154	-.04664	.01832	-.07056	.20480	-.34451
3.900	-2.023	-.29223	-.08299	.20117	.05494	.05436	-.02155	.00942	-.08195	.20159	-.40652
3.900	-.020	-.28919	-.07977	.20003	.05397	-.00069	.00152	-.00044	-.07876	.20043	-.39297
3.900	2.003	-.28973	-.07838	.20200	.05417	-.06367	.02387	-.00933	-.07736	.20239	-.38221
3.900	4.065	-.29562	-.07406	.20433	.05096	-.13011	.04791	-.01979	-.07304	.20470	-.35684
3.900	6.123	-.28451	-.06787	.20650	.04739	-.19629	.07343	-.02838	-.06885	.20684	-.33294
3.900	8.163	-.29703	-.07005	.20936	.04506	-.26989	.10249	-.03918	-.06997	.20872	-.33043
3.900	10.289	-.29442	-.06398	.21217	.04101	-.34450	.13309	-.04954	-.06278	.21250	-.29546
	GRADIENT	.00019	-.00002	.00003	.00028	-.03207	.01154	-.00453	-.00002	.00003	-.00002

UPWT 1088/1119 (IA-44) CONFIGURATION CR/T4

(RH8021) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1270.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 RUDDER = .000
 SDBRK = .000 BDFLAF = .000

RUN NO. 0/ 0 RML = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	Cy	CYN	CEL	CL	CD	L/D
4.600	-10.135	.25484	-.05870	.20364	.03798	.32503	-.12169	.04448	-.05972	.20337	-.29364
4.600	-8.139	.26131	-.06464	.19912	.04242	.25271	-.09100	.03394	-.06555	.19883	-.32969
4.600	-6.094	.26816	-.06659	.19447	.04518	.18421	-.06526	.02461	-.06759	.19415	-.34812
4.600	-4.055	.26690	-.07086	.19040	.04891	.11949	-.04055	.01551	-.07175	.19007	-.37748
4.600	-2.012	.26796	-.07548	.18544	.05101	.05749	-.01852	.00676	-.07635	.18609	-.41027
4.600	-.019	.27207	-.07616	.18552	.05209	-.00135	.00152	-.00095	-.07704	.18516	-.41610
4.600	2.013	.27309	-.07322	.18687	.05096	-.06015	.02175	-.00856	-.07411	.18652	-.39733
4.600	4.045	.27615	-.06670	.19036	.04803	-.11992	.04156	-.01672	-.06762	.19003	-.35593
4.600	6.095	.26915	-.06397	.19429	.04620	-.18093	.05410	-.02529	-.06488	.19390	-.33460
4.600	8.143	.26794	-.06133	.19755	.04365	-.24927	.09086	-.03530	-.06225	.19727	-.31556
4.600	10.236	.26895	-.05692	.20163	.04014	-.31506	.11839	-.04498	-.05777	.20136	-.28689
	GRADIENT	.00117	.00052	.00002	-.00009	-.02939	.01011	-.00394	.00052	.00002	.00279

UPWT 1088/1119 (TA-44) CONFIGURATION 02/T4/S7

(549022) (01 MAY 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YMRP = .0000 IN. YT
 BREF = 1290.3000 INCHES ZMRP = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RO = .000 QUADDER = .000
 SPDRK = .000 SDFLAP = .000

RUN NO. 0/ 0 QM/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CH	CA	CL4	CY	CYN	CSL	CL	CD	L/D
2.000	-10.004	-.06639	-.69577	.41109	.26728	.01113	-.00468	.00113	-.60393	.52397	-1.15262
2.000	-7.928	-.06741	-.53903	.40282	.20702	.01159	-.00430	.00160	-.47831	.47332	-1.01054
2.000	-5.833	-.06685	-.39857	.39449	.15196	.01220	-.00548	.00195	-.35642	.43295	-.82323
2.000	-4.042	-.06759	-.29574	.39253	.11058	.01206	-.00465	.00215	-.25736	.41159	-.62514
2.000	-1.662	-.06631	-.16128	.38802	.06920	.01107	-.00465	.00164	-.14996	.39254	-.38204
2.000	-.604	-.06914	-.10037	.39631	.04050	.01345	-.00579	.00201	-.09629	.38735	-.24859
2.000	.441	-.06783	-.04511	.39477	.03017	.01310	-.00557	.00185	-.04806	.38441	-.12503
2.000	1.477	-.06759	.00428	.39266	.01316	.01272	-.00545	.00145	-.00558	.38264	-.01458
2.000	2.519	-.06738	.05820	.37950	-.00754	.01234	-.00521	.00124	.04146	.38169	.10953
2.000	4.605	-.06746	.17279	.37788	-.05717	.01268	-.00535	.00108	.14189	.39054	.36332
2.000	6.699	-.06884	.29613	.38016	-.10680	.01412	-.00564	.00166	.24976	.41211	.60905
2.000	8.807	-.06867	.42496	.37907	-.15349	.01291	-.00436	.00224	.36191	.43967	.82316
2.000	10.993	-.06939	.54971	.37624	-.19027	.01365	-.00461	.00211	.46788	.47415	.99676
	GRADIENT	-.00002	.05281	-.00176	-.01908	.00000	-.00000	-.00012	.04598	-.00253	.11470

ORIGINAL TABLES
 OF POOR QUALITY

UPWT 1088/1119 (IA-44) CONFIGURATION 02/14/57

(RH8023) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 ELV-LD = .000
 ELV-LI = .000 ELV-RI = .000
 ELV-RD = .000 SLODER = .000
 SFSDER = .000 SDFLAP = .000

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
1.600	-10.469	-.13501	-.04596	.45372	.00986	.50970	-.22314	.06909	-.04489	.45393	-.09892
1.600	-8.447	-.12768	-.04152	.45364	.01052	.39708	-.17391	.05544	-.04051	.45373	-.08929
1.600	-6.337	-.12913	-.04358	.45201	.01359	.29578	-.13109	.04210	-.04266	.45211	-.09436
1.600	-4.236	-.13125	-.04594	.44671	.01749	.19350	-.09534	.02749	-.04492	.44682	-.10052
1.600	-2.143	-.13932	-.05247	.44290	.02354	.10052	-.04533	.01391	-.05139	.44302	-.11601
1.600	-.067	-.12315	-.04729	.44158	.02253	.01318	-.00670	.00192	-.04533	.44178	-.10487
1.600	2.012	-.12561	-.04991	.44055	.02120	-.07760	.03434	-.01005	-.04894	.44075	-.11082
1.600	4.168	-.11719	-.04059	.44357	.01605	-.16913	.07398	-.02365	-.03978	.44365	-.08956
1.600	6.189	-.12680	-.04176	.44596	.01481	-.26128	.11513	-.03741	-.04078	.44506	-.09141
1.600	8.313	-.13211	-.04967	.44709	.01552	-.35991	.15563	-.05118	-.04864	.44721	-.10877
1.600	10.477	-.12962	-.05091	.44916	.01509	-.47672	.20405	-.05509	-.04989	.44827	-.11130
	GRADIENT	.00200	.00063	-.00040	-.00025	-.04300	.01900	-.00502	.00052	-.00041	.00130

RUN NO. 0/ 0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.000	-10.457	.42320	-.04504	.39277	.02035	.48418	-.21462	.05995	-.04794	.39243	-.12217
2.000	-8.372	.43415	-.04001	.39389	.02055	.38099	-.16966	.04875	-.04300	.39357	-.10925
2.000	-6.305	.43184	-.04240	.39123	.02362	.28554	-.12805	.03571	-.04535	.39090	-.11602
2.000	-4.215	.43547	-.04513	.38919	.02718	.19647	-.08818	.02552	-.04808	.38884	-.12366
2.000	-2.127	.43359	-.05064	.39519	.03239	.10552	-.04760	.01356	-.05356	.38580	-.13893
2.000	-.071	.43927	-.05090	.39441	.03302	.01965	-.00716	.00222	-.05384	.38490	-.14020
2.000	2.022	.43500	-.04766	.39406	.03109	-.05993	.03255	-.00847	-.05058	.38449	-.13156
2.000	4.092	.43489	-.04485	.38884	.02694	-.16297	.07466	-.02092	-.04780	.38848	-.12305
2.000	6.173	.43984	-.04299	.38850	.02396	-.24590	.11004	-.03170	-.04597	.38816	-.11843
2.000	8.239	.44094	-.04492	.38925	.02405	-.34560	.15300	-.04450	-.04791	.38889	-.12320
2.000	10.429	.44780	-.04628	.39060	.02439	-.45297	.19954	-.05716	-.04933	.39023	-.12641
	GRADIENT	.00001	.00017	-.00010	-.00009	-.04311	.01956	-.00554	.00017	-.00010	.00041

UPWT 1058/1119 (TA-44) CONFIGURATION 02/T4/S7

(948024) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XREF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES YREF = .0000 IN. YT
 BREF = 1290.3000 INCHES ZREF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LD = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RD = -8.000 RUDDER = .000
 SPDRR = .000 SFLAP = .000

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.500	-10.921	-.00312	-.66132	.37825	.25749	.00381	-.00141	-.00084	-.57768	.49669	-1.15305
2.500	-8.818	-.00176	-.52452	.37096	.20310	.00154	-.00051	-.00018	-.45145	.44699	-1.03236
2.500	-6.733	-.00050	-.40110	.36204	.15553	.00039	.00020	-.00026	-.35589	.40657	-.87536
2.500	-4.641	.00059	-.28375	.35669	.11117	-.00062	.00042	-.00005	-.25396	.37848	-.67101
2.500	-2.562	.00187	-.17428	.35385	.07500	-.00221	.00115	.00013	-.15829	.36128	-.43912
2.500	-1.526	.00144	-.12080	.35179	.06307	-.00133	.00043	-.00007	-.11938	.35510	-.33621
2.500	-.495	.00210	-.09098	.34872	.05413	-.00259	.00109	-.00060	-.09787	.34949	-.25142
2.500	.544	.00184	-.04485	.34714	.04083	-.00209	.00061	-.00037	-.04816	.34569	-.13891
2.500	1.597	.00212	-.00309	.34327	.02933	-.00331	.00159	-.00084	-.01258	.34305	-.03668
2.500	3.651	.00339	.09471	.34086	-.00729	-.00366	.00116	-.00091	.07281	.34620	.21032
2.500	5.724	.00172	.20116	.33907	-.04091	-.00125	.00036	-.00055	.16634	.35744	.45537
2.500	7.809	.00161	.31760	.33939	-.09459	-.00137	.00029	-.00073	.26868	.37839	.71005
2.500	9.897	.00158	.43228	.33303	-.13959	-.00120	-.00019	-.00100	.36861	.40237	.91608
	GRADIENT	.00028	.04457	-.00205	-.01354	-.00035	.00009	-.00013	.03835	-.00490	.10395

RUN NO. 0/0 RNL = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
2.860	-10.618	-.00303	-.61995	.35894	.24469	.00353	-.00099	-.00040	-.54320	.46703	-1.16309
2.860	-8.533	-.00287	-.49885	.34912	.19353	.00411	-.00162	.00022	-.44153	.41927	-1.05307
2.860	-6.462	-.00099	-.38692	.34035	.15631	.00133	-.00031	.00021	-.34616	.38173	-.90681
2.860	-4.387	-.00010	-.28057	.33077	.11977	-.00008	.00052	-.00037	-.25445	.35126	-.72438
2.860	-2.315	-.00031	-.18074	.32514	.08724	.00041	.00029	.00011	-.16746	.33218	-.59414
2.860	-1.282	-.00119	-.13335	.32347	.07285	.00167	-.00038	.00060	-.12609	.32637	-.38632
2.860	-.257	-.00048	-.09527	.32052	.06307	.00059	-.00003	.00014	-.09383	.32095	-.29236
2.860	.775	.00026	-.05500	.31719	.05193	-.00021	-.00006	-.00009	-.05928	.31642	-.18735
2.860	1.913	-.00030	-.01164	.31395	.03775	.00034	-.00008	-.00005	-.02157	.31332	-.06883
2.860	3.864	-.00012	.07844	.31154	.02423	.00062	-.00037	-.00001	.05727	.31612	.18117
2.860	5.930	-.00119	.18096	.30854	-.03462	.00225	-.00072	.00030	.14801	.32557	.45463
2.860	8.000	-.00111	.28185	.30549	-.07300	.00236	-.00125	.00010	.23559	.34175	.69231
2.860	10.079	-.00040	.39622	.30051	-.11632	.00149	-.00133	.00021	.33752	.36522	.92416
	GRADIENT	.00003	.04277	-.00244	-.01334	.00002	-.00010	.00001	.03706	-.00435	.10831

UPWT 1089/1119 (1A-44) CONFIGURATION 02/14/57

(R46024) (03 JAN 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. X4RF = 976.0000 IN. XT
 LREF = 1290.3000 INCHES Y4RF = .0000 IN. YT
 BREF = 1290.3000 INCHES Z4RF = 400.0000 IN. ZT
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 ELV-LO = -8.000
 ELV-LI = 8.000 ELV-RI = 8.000
 ELV-RO = -8.000 RUDDER = .000
 SPOBRK = .000 SDFLAP = .000

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
3.900	-10.526	-.00152	-.49542	.30910	.18893	.00160	.00027	.00020	-.43062	.39440	-1.09182
3.900	-8.485	-.00186	-.41707	.29976	.16554	.00294	-.00058	.00022	-.36928	.35802	-1.02864
3.900	-6.437	-.00180	-.33930	.28925	.14269	.00303	-.00074	.00007	-.30365	.32436	-.93677
3.900	-4.395	-.00159	-.25680	.27716	.11672	.00269	-.00048	-.00010	-.23480	.29603	-.79319
3.900	-2.359	-.00109	-.18002	.26999	.09241	.00198	-.00007	-.00012	-.16976	.27717	-.60887
3.900	-1.335	-.00123	-.14194	.26719	.08137	.00134	.00056	-.00007	-.13567	.27042	-.50172
3.900	-.320	-.00078	-.11019	.26362	.07249	.00026	.00095	-.00045	-.10872	.26423	-.41145
3.900	.705	-.00076	-.07694	.26021	.06379	.00005	.00094	-.00055	-.08014	.25924	-.30912
3.900	1.728	-.00080	-.04093	.25792	.05323	-.00015	.00101	-.00065	-.04959	.25657	-.18939
3.900	3.763	-.00113	.04070	.25379	.02491	.00099	.00073	-.00020	.02396	.25590	.09362
3.900	5.806	-.00076	.12341	.24920	-.00488	.00154	.00001	-.00044	.09757	.26041	.37468
3.900	7.852	-.00079	.20970	.24470	-.03624	.00042	.00100	-.00037	.17332	.27092	.63974
3.900	9.896	-.00009	.29556	.24109	-.06671	-.00247	.00293	-.00099	.24973	.28928	.85626
	GRADIENT	.00007	.05579	-.00291	-.01091	-.00028	.00017	-.00005	.03106	-.00497	.10687

RUN NO. 0/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CSL	CL	CD	L/D
4.600	-9.899	-.00151	-.46695	.30200	.18021	.00161	.00085	.00045	-.40798	.37776	-1.07999
4.600	-7.871	-.00093	-.39569	.29012	.16007	.00050	.00125	-.00004	-.35223	.34157	-1.02121
4.600	-5.834	-.00091	-.31942	.27722	.13737	.00054	.00134	-.00024	-.29859	.30815	-.93653
4.600	-3.802	-.00076	-.23963	.26529	.11163	.00053	.00129	-.00010	-.22151	.28050	-.78943
4.600	-1.771	-.00128	-.15977	.25594	.08499	.00268	-.00006	.00101	-.15078	.26052	-.57855
4.600	-.755	-.00083	-.12791	.24971	.07578	.00132	.00043	.00026	-.12460	.25137	-.49569
4.600	.261	-.00077	-.09700	.24514	.06916	.00050	.00099	-.00018	-.09812	.24470	-.40997
4.600	1.274	-.00028	-.06902	.24042	.06133	-.00142	.00207	-.00080	-.07335	.23885	-.30709
4.600	2.284	-.00010	-.03351	.23730	.05059	-.00227	.00243	-.00107	-.04294	.23577	-.18211
4.600	4.319	-.00090	.04770	.23341	.02349	.00125	.00050	.00001	.02999	.23634	.12699
4.600	6.351	-.00077	.13064	.22747	-.00673	.00151	.00073	.00048	.10468	.24053	.43519
4.600	8.385	-.00032	.20513	.22182	-.03244	-.00069	.00189	-.00023	.17060	.24936	.68414
4.600	10.415	-.00047	.29082	.21693	-.06453	-.00072	.00163	-.00023	.24681	.26593	.92911
	GRADIENT	.00006	.03425	-.00408	-.01022	-.00023	.00008	-.00011	.02997	-.00561	.10902