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RESULTS OF AN EXPERIMENTAL INVESTIGATION TO DETERMIN ORBITER AND SOLID ROCKET BOOSTER JET PLUME INDUCED EFFECTS UTILIZING A .01-SCALE INTEGRATED VEHICLE SPACE SHUTTLE MODEL (75-OTS) IN THE NASA/ARC 9 x 7-FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA138)

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

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Data Management SERVICES

HUNTSVILLE ELECTRONICS DIVISION CHRYSLER CORPORATION

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by

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Prepared under NASA Contract Number NAS9-16283

by

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	ARC 97SWT 246-1
NASA Series Number:	IA138
Model Number:	75-OTS
Test Dates:	August 15, 1978 through September 1, 1978
Occupancy Hours:	70

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ABSTRACT

This report documents the data obtained during wind tunnel test IA138; a supersonic, integrated vehicle, jet plume effects test program. The model simulated the jet plumes generated from the SSME and SRB systems by directing unheated high-pressure air through precalibrated flow-through nozzles. IA138 was conducted in the 9 x 7 leg of the Unitary Plan Wind Tunnel using an .01-scale model of the Space Shuttle Launch Vehicle.

The basic objectives of this program were to determine the effect of the Space Shuttle Main Engines and Solid Rocket Booster plumes on:

1. Wing panel shear, bending and torsion
2. Inboard and outboard elevon hinge moments
3. Orbiter, external tank and solid rocket booster afterbody pressure distributions and acoustic environment.

Testing was conducted over the range of Mach numbers from 1.55 to 2.5 with Reynolds number variations between 4.4 and 3.01 x 10^6 per foot

respectively. Angle-of-attack varied from -8 to +6 degrees at sideslip angles of -4, 0 and 4 degrees. Inboard and outboard elevon deflection angles were also varied during the test program.

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56	MACH = 1.55	BETA	F	281-284
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60	MACH = 1.8	BETA	F	297-300
61	MACH = 2.2	↓	F	301-304
62	MACH = 2.5		F	305-308
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PLOT SCHEDULES:

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B) $C_{h_{e_i}}$, $C_{h_{e_o}}$ vs SSMEPR

C) $C_{P_{B_{ORB}}}$, $C_{P_{B_{ET}}}$, $C_{P_{B_{SL}}}$, $C_{P_{B_{SR}}}$ vs SSMEPR

D) CNW, $C_{T_{MW}}$, $C_{B_{MW}}$ vs α

E) $C_{h_{e_I}}$, $C_{h_{e_o}}$ vs α

F) $C_{P_{B_{ORB}}}$, $C_{P_{B_{ET}}}$, $C_{P_{B_{SL}}}$, $C_{P_{B_{SR}}}$ vs α

G) ΔC_{N_W}, $\Delta C_{T_{MW}}$, $\Delta C_{B_{MW}}$ vs α

H) ΔC_{H_I} , ΔC_{H_O} vs α

I) $C_{P_{B_{ORB}}}$, $C_{P_{B_{ET}}}$, $C_{P_{B_{SL}}}$, $C_{P_{B_{SR}}}$ vs M

FIGURE NUMBER	TITLE		PLOT SCHEDULE	PAGES
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5A	PRESS. DISTRIBUTION PWR ON/OFF (BODY FLAP UPPER)	ELEVON=10/-2, MACH=1.55	B	61-75
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6A	PRESS. DISTRIBUTION PWR ON/OFF (ORBITER BASE)	ELEVON=10/-2, MACH=1.55	C	91-135
6B	PRESS. DISTRIBUTION PWR ON/OFF (ORBITER BASE)	ELEVON=0/-2, MACH=2.5	C	136-180
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FIGURE NUMBER	TITLE		PLOT SCHEDULE	PAGES
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PLOT SCHEDULES:

A) C_p vs Ø

B) C_p vs X/CBF

C) C_p vs YO

NOMENCLATURE

SYMBOL	MNEMONIC	DESCRIPTION
α	ALPHA	model angle-of-attack; degrees
a_m		distance between bending gauge electrical centers
A_{BET}	ABET	external tank base area; ft.^{2}
A_{BORB}	ABORB	orbiter base area; ft.^{2}
A_{BSRB}	ABSRB	base area for both SRB's; ft.^{2}
A_{TMPS}	ATMPS	MPS nozzle throat area; in.^{2}
A_{TSRB}	ATSRB	SRB nozzle throat area, in.^{2}
β	BETA	model angle of sideslip; degrees
b	BREF	model span; in.
B_w	BW	wing-root bending moment, about Y_o - 105; in-lbf.
B_{wi}	BWI	wing-root bending moment at inboard gauge; in-lb.
B_{wo}	BWO	wing-root bending moment at outboard gauge; in-lb.
$\bar{c}$	CBAR	wing mean aerodynamic chord; in.
C_{B_W}	CBW, CBMW	wing-root bending moment coefficient atoub Y_o = 105
c_e	CE	elevon chord; in.
Ch_{e_i}	CHEI	inboard elevon hinge moment coefficient, about hingeline
Ch_{e_o}	CHEO	outboard elevon hinge moment coefficient, about hingeline
C_{N_W}	CHW	wing panel normal force coefficient

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DESCRIPTION
C_{p_i}	CP(i)	pressure coefficient, i = tap number; $C_{p_i} = (p_i - p_\infty)/q_\infty$
$(C_{p_b})_{ORB}$	CPBORB	orbiter base pressure coefficient
$(C_{p_b})_{ET}$	CPBET	external tank base pressure coefficient
$(C_{p_b})_{SL}$	CPBSL	left SRB base pressure coefficient
$(C_{p_b})_{SR}$	CPBSR	right SRB base pressure coefficient
C_{T_W}	CTW, CTMW	wing torsion moment coefficient, about $Y_o = 1307$
d		transfer distance from Y = 105 to electrical axis of wing gauge #2; in.
e_m		transfer distance from $X_o = 1307$ to wing gauge #3; inches
$H_{m_{ei}}$	HMEI	inboard elevon hinge moment about hingeline; in-lb.
$H_{m_{e_o}}$	HMEO	outboard elevon hinge moment about hingeline; in-lb.
KΔ		wing bending deflection constant; ^{o}/in-lb.
KΔEI		inboard elevon deflection constant; ^{o}/in-lb.
KΔEO		outboard elevon deflection constant; ^{o}/in-lb.
K_I	KI	inboard elevon hinge moment constant; in-lb/mv/v
K_O	KO	outboard elevon hinge moment constant; in-lb/mv/v
ℓ_B	LREF	reference body length; in.
mv		stain gauge output; millivolts
M_∞	MACH	freestream Mach number

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DESCRIPTION
N_W	NW	wing panel normal force; lb.
P_{co} or $P_{c_{ORB}}$	PCORB	orbiter chamber pressure; psia
P_{cs} or $P_{c_{SRM}}$	PCSRM	SRM chamber pressure; psia
P_{C_N}	PCN	nozzle chamber pressure, N indicates chamber location; psia
P_{e_i}	PE(i)	nozzle exit pressure, ith tap number; psia
P_i	P	static pressure, ith tap number; psia
P_∞ or P_o	P or PO	tunnel freestream static pressure; psia
P_{t_∞}	PT	tunnel freestream total pressure; psia
$(p_c/p_\infty)_{ORB}$	SSMEPR or CPR02 (CPR01)	Orbiter main engine #2 (#1) pressure ratio; Orbiter nozzle chamber pressure/freestream static pressure
$(p_c/p_\infty)_{SRB}$	SRBPR or CPRSR (CPRSL)	Right SRB nozzle (Left SRB nozzle) pressure ratio; SRB nozzle chamber pressure/freestream static pressure
q_∞	Q(PSF) or Q	tunnel freestream dynamic pressure; psf
Rn/ft	RN/L	unit Reynolds number; per foot
S_e	SE	elevon reference area; $ft.^2$
S_w	SREF	model wing area; $ft.^2$
T	TR	average tunnel static temperature; ^oR
T_T	TTR	average tunnel total temperature; ^oR
$T_{T_{ORB}}$	TORB	orbiter plume air total temperature; ^oR
$T_{T_{SRM}}$	TSRM	SRM plume air total temperature; ^oR

SYMBOL	MNEMONIC	DESCRIPTION
T_W	TW	wing-root torsion moment at gauge; in-lb.
V		voltage applied to strain gauge; volts
$\dot{W}_{MPS}$		MPS nozzle mass flow; #/sec. per nozzle
$\dot{W}_{SRB}$		SRB nozzle mass flow; #/sec. per nozzle
X_{ON}		orbiter nose station; in.
X_{WRC}		orbiter orbiter longitudinal wing reference station; in.
$(X/C)_{BF}$	X/CBF	longitudinal distance along body flap/body flap chord length
X/D	X/D	longitudinal location of pressure orifice on nozzle/nozzle exit diameter (see Figure 2n or Figure 2q)
X/L	X/L	longitudinal distance along orbiter fuselage/ orbiter body length
$(X/L)_S$	S/LS	longitudinal distance along SRB/SRB length (see Figure 2p)
$(X/L)_T$	X/LT	longitudinal distance along external tank/ external tank length (see Figure 2o)
Y_{WRC}		orbiter lateral wing reference station; in.
Y_o	YO	lateral location of pressure orifice on orbiter base; inches (M.S.) right (+) or left (-) of longitudinal centerline (see Figure 21)
Z_o	ZO	vertical location of pressure orifice on orbiter base; inches (M.S.) above water line zero. (see Figure 21)
-	XMPP YMPP ZMRP	location of Moment Reference Point for data reduction. Longitudinal (X), Lateral (Y) and Vertical (Z) station on orbiter
-	NO.	Station number
ΔC_{N_W}		incremental normal force on wing due to engine plumes
ΔC_{T_W}		incremental torsional moment on wing due to enging plumes
ΔC_{B_W}		incremental root bending moment on wing due to engine plumes

SYMBOL	MNEMONIC	DESCRIPTION
$\Delta C_{H_{E_I}}$		incremental hinge moment on inboard elevon due to engine plumes
$\Delta C_{H_{E_O}}$		incremental hinge moment on outboard elevon due to engine plumes
ΔE_{L_I}	DI	left inboard elevon deflection due to load; degrees
ΔE_{L_O}	DO	left outboard elevon deflection due to load; degrees
δE_{L_I}	ELVI	left inboard elevon setting, corrected for load deflection; degrees
δE_{L_O}	ELVO	left outboard elevon setting, corrected for load deflection; degrees
$\delta E_{L_I}(SET)$	ELV-IB or EI	inboard elevon deflection setting; degrees
$\delta E_{L_O}(SET)$	ELV-OB or	outboard elevon deflection setting; degrees
η	ETA	spanwise location of pressure orifice on body flap, (wY/b) (see Figure 2m)
ϕ	PHI	radial position of pressure orifice on component, degrees. (see Figure 2k)
ϕ_W		deflection of R/H wing panel in pitch plane due to torsion moment; degrees (positive LE-up)
θ_W		deflection of R/H wing panel in roll plane due to bending moment, degrees (positive tip upward)

Pressures

C_{P_i}	CP(i)	pressure coefficient for model surface tap i
$(pc/p_\infty)j$	CPR(j)	chamber pressure ratio for nozzle j

SYMBOL	MNEMONIC	DESCRIPTION
$(p_e/p_\infty)_j$	EPR(j)	exit pressure ratio for nozzle j
p_{c_j}	PC(j)	chamber pressure (absolute) for nozzle j; psia
p_{e_j}	PE(j)	exit pressure (absolute) for nozzle j; psia
p_i	P(i)	pressure (absolute) at model surface tap; psia

Subscripts

B	base, body, bending
C	chamber
e	exit
E	elevon
ET	external tank
G	gauge
i	surface pressure tap number
I	inboard
j	location j = 1 upper MPS nozzle chamber j = 2 L.H. MPS nozzle chamber j = 3 R.H. MPS nozzle chamber j = 4 L.H. SRB nozzle chamber j = 5 R.H. SRB nozzle chamber j = 95, 96, 97 nozzle #2 internal wall (see Figure 2n) j = 98, 99, 100 nozzle #4 internal wall (see Figure 2n)
N	nozzle, nose (orbiter)
O	outboard
r	right

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DESCRIPTION
S		solid rocket booster (SRB) or (SRM)
SL		L.H. solid rocket booster
SR		R.H. solid rocket booster
SRB		solid rocket booster
SRM		solid rocket motor
T		external tank, total, twisting or torsion
W		wing
ℓ		left
∞		static freestream

INTRODUCTION

Model 75-OTS, a 0.010-scale model of the integrated space shuttle vehicle, was tested in the ARC Unitary Plan Wind Tunnel. The test was conducted in the 9 x 7-foot supersonic test section between August 15, 1978 and September 1, 1978 for a total of 70 occupancy hours. The shuttle program test designation was IA138 and the facility test number was 97-246-1.

Cold air flow through the space shuttle main propulsion system (SSME), the solid rocket booster (SRB), and Solid Rocket motor (SRM) nozzles were used to simulate the rocket plumes. Air to the main engines was ducted through a single passage from the back of the sting, up through the blade and through three passages to the orbiter afterbody which formed the SSME chamber and nozzle mounts. Air for the SRB's was ducted up the blade strut via two passages to a common plenum inside the External Tank (ET), out to the booster plenums through five passages in each innterstage strut and hence through the nozzle.

Test variables included Mach number ($1.55 \leq M \leq 2.50$), angle-of-attack (-8° to $+6^{o}$), sideslip angle ($0, \pm 4^{o}$), SSME and SRB nozzle pressures and elevon deflections.

Data gathered in the test included noise levels and steady-state pressure distributions on the aft portion of the orbiter, ET and the left-hand SRB; wing shear, bending and torsion, and left wing inboard and outboard elevon hinge moments were measured also.

This report presents the results of the test in the following format:

VOLUME I

Wing force and moment data, elevon hinge moment data and element average base pressure data plots and tabulations.

VOLUME II

Individual pressure orifice plots (sample only - complete set available on request from Chrysler DMS)

VOLUME III

Individual pressure orifice tabulation (Microfiche only - hard copy available on request from Chrysler DMS)

Contents	Microfiche Page Number
Orbiter Fuselage (A) D/S 01-89	1-9
Upper Body Flap (B) D/S 01-89	9-14
Lower Body Flap (C) D/S 01-89	14-19
Orbiter Base (D) D/S 01-89	19-30
Number 1 Space Shuttle Main Engine Nozzle (E) D/S 01-89	30-38
Number 3 Space Shuttle Main Engine Nozzle (F) D/S 01-89	38-43
External Tank Base (G) D/S 01-89	44-51
Left Solid Rocket Booster (H) D/S01-89	51-56
Left Solid Rocket Booster Nozzle (I) D/S 01-89	56-64
Left Solid Rocket Booster Base (J) D/S 01-89	65-66

INTRODUCTION (Concluded)

Contents	Microfiche Page Number
Right Solid Rocket Booster Base (K) D/S 01-89	66-67
Inside Orbiter Maneuvering System (L) D/S 01-89	67-69

REMARKS

Angle-of-attack for the on-line data during the early portion of the test program was recorded from the model strut-mounted danglometer. These measurements were abandoned later because of unsatisfactory danglometer calibrations, and angle-of-attack was computed from the facility knuckle sleeve readings. For the final data tape, all angle-of-attack data were recomputed based on knuckle sleeve outputs.

Pressure taps 55, 61 and 65 (Scanivalve Number 3, Port Numbers 27, 33 and 36) were plugged prior to the start of the test program and no attempt was made to recover these pressure taps on site because of model complexity. Several other taps on Scanivalve Numbers 3, 5 and 6 occasionally showed marginally acceptable results on Scanivalve checks made periodically during the test program. The Ports are tabulated below:

Scanivalve #3		Scanivalve #5		Scanivalve #6	
Port No.	Tap No.	Port No.	Tap No.	Port No.	Tap No.
22	51	21	2112	4	2407
23	52	23	2117	7	2410
34	62	32	2155	10	2413
37	65	37	2165	11	2414
				30	2432

Further, post-test analysis of the data generated additional orifices that were judged bad. These are tabulated in Table IV. The data tabulations of Volume III contain the data as collected, (including bad points), so the reader is advised to study Table IV before utilizing the data.

The Kulite dynamic pressure data measurements were recorded directly on magnetic tape at the facility. These data are under the jurisdiction of the Shuttle Structural Dynamics unit at Rockwell, Downey, and will be processed and analyzed by that organization.

Reference dimensions called out on the force plots and tabulated force data are for the total vehicle. Wing force and moment data and elevon hinge moment data were reduced to their own respective dimensions as called out in the Data Reduction Section of this report.

CONFIGURATIONS INVESTIGATED

The model tested was a 0.010-scale representation of the drawing VC70-000002 mated space shuttle vehicle (see Figures 2a through 2d). The 75-OTS model had the capability of simulating the jet plumes generated from the SSME and SRB systems by directing unheated high-pressure air through precalibrated flow-through nozzles.

The orbiter was rigidly attached to the external tank by fore and aft attach hardware and by the strut used for supplying high-pressure air to the SSME nozzles (see Figures 2e and 2f).

The inboard and outboard elevons on the left wing were spearately strain-gauged for hinge moments (Figures 2h and 2i). The right-hand wing was strain-gauge instrumented for normal force, bending and torsion moments (Figure 2j).

The orbiter was instrumented with 142 surface static pressure taps and 2 acoustic sensors distributed over the fuselage, fuselage base, body flap and MPS nozzles as shown in Figures 2k through 2m.

The external tank was rigidly attached to the main blade air-supply strut. The ET had 34 pressure taps and 3 acoustic sensors as shown in Figure 2o.

The SRB was instrumented with 67 pressure taps and 3 acoustic sensors (see Figures 2p and 2q).

SSME and SRB flow-through nozzles were constructed of Armco steel and were deflected to the initial lift-off configuration setting.

The orbiter configuration was denoted as follows:

$$O_1 = B_{62}\ C_{12}\ E_{52}\ F_{10}\ M_{16}\ R_5\ N_{87}\ N_{89}\ V_8\ W_{127}$$

Where the individual orbiter components were defined as (see Figure 2a):

Component	Definition
B_{62}	fuselage
C_{12}	canopy
E_{52}	elevon
F_{10}	body flap
M_{16}	OMS/RCS pods
R_5	rudder/speed brake
N_{87}	MPS nozzle
N_{89}	OMS nozzles
V_8	vertical tail
W_{127}	wing

The external tank configuration was denotes as follows (see Figure 2c):

$$T = T_{28}\ FR_{10}\ AT_{28}\ AT_{31}\ AT_{32}\ PT_{22}\ PT_{23}\ PT_{24}\ PT_{25}\ PT_{26}\ PT_{27}\ FL_{10}\ FL_{11}$$

Component	Definition
T_{28}	external tank
FR_{10}	aft attach cross beam

Component	Definition
AT_{28}	attach structure; Orbiter, aft
AT_{31}	attach structure, SRB
AT_{32}	attach structure, Orbiter, fwd.
PT_{22}	ET protuberance, LO_2 antigeyser line
PT_{23}	ET protuberance, LH_2 recirculation line
PT_{24}	ET protuberance, GH_2 pressure line
PT_{25}	ET protuberance, LH_2 tank cable tray
PT_{26}	ET protuberance, GO_2 pressure line
PT_{27}	ET protuberance, LO_2 tank cable tray
FL_{10}	LO_2 feedline, aft, cross member
FL_{11}	LO_2 feedline, longitudinal member

The SRB nomenclature is as follows (refer to Figure 2d):

$$S = S_{22}\ N_{88}\ P_{S11}\ P_{S12}\ P_{S13}\ P_{S14}\ P_{S15}\ P_{S16}\ P_{S20}\ P_{S21}\ P_{S22}$$

Component	Definition
S_{22}	solid rocket booster
N_{88}	SRB nozzles
P_{S11}	SRB protuberance, separation motor
P_{S12}	SRB protuberance, separation motors
P_{S13}	SRB protuberance, aft structural ring
P_{S14}	SRB protuberance, aft attach
P_{S15}	SRB protuberance, data capsule

CONFIGURATIONS INVESTIGATED (Concluded)

Component	Definition
P_{S16}	SRB protuberance, fwd attach footing
P_{S20}	SRB protuberance, cable housing
P_{S21}	SRB protuberance, structural rings (4)
P_{S22}	SRB protuberance, turbine exhaust (4)

TEST FACILITY DESCRIPTION

The Ames Research Center 9- by 7-Foot Supersonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 1.55 to 2.50 at Reynolds numbers from 1.5×10^6/ft to 6.5×10^6/ft. The 18-foot-long test section is part of a dual system of supersonic circuits and uses the same motors and compressor as the 8- by 7-foot tunnel. A sliding-block throat arrangement is used to control Tunnel Mach number.

Models are supported by means of stings attached to the wall-to-wall strut/BOR system of the 9- x 7-foot tunnel.

Schlieren photography, shadowgraphs, and pressure monitoring instrumentation are available.

DATA REDUCTION

The data reduction procedures for Test IA138 involved calculation of: operating nozzle chamber-total, exit-static pressures, and pressure ratios for the SRB and main propulsion system (MPS) nozzles; elevon (inboard and outboard panel) hinge moments and hinge moment coefficient; wing normal-force coefficient, wing-root bending moment coefficient, wing-root torsion moment coefficient; and pressure coefficients for the 246 static taps on the orbiter, external tank, and solid rocket booster.

The methods and equations used for reduction of data were as follows:

Blowing System Data

The blowing systems were monitored at two nominal stations; upstream of the nozzle (chamber pressure), and at the nozzle exits (see Figures 2e and 2f).

The ratios of chamber pressure to freestream static were computed:

$$\frac{P_{CO}}{P_\infty} = \frac{PCORB}{PO} = \begin{cases} CPRO1 = SSMEPR \\ CPRO2 \end{cases}$$

$$\frac{P_{CS}}{P_\infty} = \frac{PCSR}{PO} = \begin{cases} CPRSL \\ CPRSR - SRBPR \end{cases}$$

The ratios of exit pressures to chamber pressures were computed:

$$\frac{P_{e_i}}{P_c} = \frac{PEI}{P_C} = EPRI \quad (I = 1, 2 \text{ or } 3)$$

Additionally, the ratios of nozzle internal wall to nozzle chamber pressure were computed:

$$\frac{P_{w(i)}}{P_c} = \frac{PI}{PC} = CPRI; \quad (I = 95 \text{ thru } 100)$$

Surface Pressure Tap Data

Individual orifice pressures were converted to coefficient form by:

$$\frac{P_i - P_\infty}{q_\infty} = C_{P_i} = CPI$$

Element Average Base Pressure

Elements are : Orbiter, ET and SRB.

$$\text{ELEMENT } CP_{B_{AVG}} = \sum \left[CP_{B_i} \text{ Element } X \frac{A_i \text{ Element}}{A_B \text{ Element}} \right]$$

where:

A_i = area weight for ith tap

A_B = element base area

and

$\sum A_i$ Element = A_B Element

$\frac{A_i \text{ Element}}{A_B \text{ Element}}$ values are given in Table III

For the Orbiter:

i = 302 through 307 (Omit 303)

= 313 through 318 (Omit 314 and 317)

= 323 through 334

For the ET:

i = 1501 through 1509

= 1516 through 1523

= 1530 through 1539 (Omit 1532 and 1538)

= 1546, 1549, 1551, 1553, 1563

= 1574 through 1577

For the SRB:

i = 2202, 2204, 2221, 2222 (Left SRB)

= 2223, 2224, 2218, 2220 (Right SRB)

Wing Panel Loads

With m_1, m_2, and m_3, the output of the three flexures, and using the constants a_m, d, and e_m (see Figure 2j), the right hand wing exposed panel normal force, bending nd torsion moments were computed as follows:

NW = Wing normal force

$$NW = \frac{(m_1 - m_2)}{a_m} \text{ ; lbf}$$

BW = Wing bending moment about Y_o = 105

$$BW = m_2 + \left[\frac{(m_1 - m_2)}{a_m}\right] d; \text{ in-lbf}$$

TW = Wing torsion moment about X_o = 1307

$$TW = m_3 + \left[\frac{(m_1 - m_2)}{a_m}\right] e_m; \text{ in-lbs}$$

Converting to coefficient form:

$$CNW = \frac{NW}{q_\infty S_w}$$

$$CBW = \frac{BW}{q_\infty S_{wb}}$$

$$CTW = \frac{TW}{q_\infty S_w \bar{c}}$$

Wing Angular Deflection

Deflection due to wing torsion (Θ_W)

$$\Theta_W = (KWT)\ (TW);\ KWT = 0$$

Deflection due to wing bending (Φ_W)

$$\Phi_W = (K\Delta)\ (BW):\ K\Delta = 0.005523^o/\text{in.lb.}$$

Elevon Hinge Moments

Inboard elevon panel and outboard elevon panel hinge moment coefficients were computed by:

HMEI = Inboard elevon hinge moment, inch-pounds

$$= \left[\frac{mv}{v}\right]_I (K_I)$$

HMEO = Outboard elevon hinge moment, inch-pounds

$$= \left[\frac{mv}{v}\right]_0 (K_O)$$

so that;

$$CHEI = \frac{HMEI}{q_\infty S_E C_E}$$

$$= \frac{HMEO}{q_\infty S_E C_E}$$

where q_∞ = freestream dynamic pressure, psi

S_E = elevon area = 3.024 in^2

C_E = elevon chord = 0.907 inches

Elevon Deflections under load were computed as:

$$\Delta E_{L_I} = (K\Delta EI)\ (HMEI)$$

$$\Delta E_{L_O} = (K\Delta EO)\ (HMEO)$$

$$\delta E_{L_I} = \delta E_{L_I}\ (set) + \Delta E_{L_I}$$

$$\delta E_{L_O} = \delta E_{L_O}\ (set) + \Delta E_{L_O}$$

Reference dimensions and constants used are listed below:

Symbol	Full Scale	Model Scale
A_{BET}	597.6 ft^2	.05976 ft^2
A_{BORB}	301.0 ft^2	.03010 ft^2
A_{BSRB} (2)	235.0 ft^2	.02350 ft^2
b	936.68 in	9.3668 in

DATA REDUCTION (Concluded)

Symbol	Full Scale	Model Scale
$\bar{c}$	474.81 in.	4.7481 in
ℓ_B	1290.3 in	12.903 in
$S_{W\ ref}$	2690.0 ft^2	.2690 ft^2
X_{WRC}	1307.0 in	13.070 in
Y_{WRC}	105.0 in	1.050 in
S_E	210.0 ft^2	.0210 ft^2
C_E	90.7 in	.907 in

Note: The reference dimensions and moment locations called out on the plots and in the tab data refer to the total orbiter. The data have been reduced as specified in this section; (i.e.)

Wing:

reference dimensions - as noted

bending moment reference - Y_o = 105

torsional moment reference - X_o = 1307

Elevons:

reference area - elevon planform area

reference chord - elevon chord

moment reference - elevon hinge line (X_o = 1387)

Pressures:

not applicable

REFERENCES

1. "Pretest Information for Test IA138 of the 0.010-Scale 75-OTS Jet Plume Space Shuttle Model in the 9 x 7-foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," June 12, 1978.

TABLE I.

TEST : IA138 DATE : SEPT. 1978

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
1.55	4.41	6.26	80
1.80	4.12	5.80	80
2.20	3.45	4.66	80
2.50	3.01	3.76	80

BALANCE UTILIZED: MODEL NON-METRIC*

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF			
SF			
AF			
PM			
RM			
YM			

COMMENTS: * Model mounted on rigid strut supplying blowing air.

• Three component wing panel balance in right hand wing.

• Individual inboard and outboard elevon hinge moment balances.

TEST: IA138 (ARC 97-246-1) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 9/5/78 — SHEET 1 of 6 JEV

DATA SET IDENTIFIER	CONFIGURATION	α	δ_{e_2}	δ_{a_0}	MACH	SSME	SRM	BETA -4	BETA 0	BETA 4	TEST RUN NUMBER
* R3D0 01	ΦTS	C	10	-2	1.55	ΦFF	ΦFF	31	32	33	
02		A			1.8			43	42	41	
03		A			2.2			49	48	47	
04		A		↓	2.5			50	51	52	
05		A		-5	1.8			58	59	60	
06		A			2.2			69	68	67	
07		A		↓	2.5			70	71	72	
08		C		-7	1.55			77	78	79	
09		A			1.8			88	87	86	
10		A		↓	2.2			89	90	91	
11		A	↓	2	2.5			229	228	227	
12		B	12	-2	1.55			101	100	99	
13		B		-2	1.8			102	103	104	
14		A		-5	1.8			153	152	151	
15		B		-7	1.55			130	129	128	
16		A	↓	-7	1.8			139	138	137	
17		C	8	-2	1.55			176	175	174	
18	↓	C	8	-7	1.55	↓	↓	142	143	144	

α SCHEDULES

A) -6°, -4°, 0°, 4°, 6°

B) -8°, -6°, -4°, 0°, 4°, 6°

C) -8°, -6°, -4°, 0°, 4°

* Refer to page 43 for coefficient schedules.

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DAS CO4

Table II (Continued)

TEST: IA138 (ARC 91-246-1) DATA SET/RUN NUMBER COLLATION SUMMARY DATE: 9/5/78 SHEET 2 of 6 JEV

DATA SET IDENTIFIER	CONFIGURATION	α	δ_{e_2}	δ_{e_0}	MACH	SSME	SRM	BETA -4	BETA 0	BETA 4	TEST RUN NUMBER
R3D019	ΦTS	A	4	-2	2.2	ΦFF	ΦFF	121	122	123	
20				-2	2.5			120	119	118	
21				-5	1.8			160	159	158	
22				-5	2.2			161	162	163	
23				-5	2.5			172	171	170	
24				-7	2.2			199	198	197	
25				2	2.5			108	109	110	
26			0	-2	2.2			209	210	211	
27				-2	2.5			222	221	220	
28				-5	2.2			181	182	183	
29				-5	2.5			192	191	190	
30				2	2.5			201	202	203	

a SCHEDULES A) -6°, -4°, 0°, 4°, 6°

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Table II (Continued)

TEST: IA138 (ARC 97-246-1) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 9/5/78 — SHEET 3 of 6 — JEV

DATA SET IDENTIFIER	CONFIGURATION	α	δ_{BF}	δ_{AD}	MACH	SSME	SRM	BETA -4	BETA 0	BETA 4
R3D031	ΦTS	C	10	-2	1.55	NOM	NOM	35	36	37
32		A			1.8			38	39	40
33		A			2.2			44	45	46
34		A			2.5			55	54	53
35		A		-5	1.8			63	62	61
36		A			2.2			64	65	66
37		A			2.5			75	74	73
38		C		-7	1.55			82	81	80
39		A			1.8			93	84	85
40		A			2.2			94	93	92
41		A		2	2.5			224	225	226
42		B	12	-2	1.55			96	97	98
43		B		-2	1.8			107	106	105
44		A		-5	1.8			148	149	150
45		B		-7	1.55			133	132	131
46		A		-7	1.8			134	135	136
47		C	8	-2	1.55			177	178	179
48		C	8	-7	1.55			147	146	145

TEST RUN NUMBERS

α SCHEDULES
A) -6°, -4°, 0°, 4°, 6°
B) -8°, -6°, -4°, 0°, 4°, 6°
C) -8°, -6°, -4°, 0°, 4°

NOMINAL THRUSTER CONDITIONS:

MACH	SSME	SRM
1.55	370 psia	196 psia
1.8	475 psia	275 psia
2.2	745 psia	462 psia
2.5	1325 psia	750 psia

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DMS CCL

Table II (Continued)

TEST: IA138 (ARC 97-246-1) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 9/5/78 — SHEET 4 of 6 — JEV

DATA SET IDENTIFIER	CONFIGURATION	α	δ_{e_I}	δ_{e_O}	MACH	SSME	SRM	BETA -4	BETA 0	BETA 4
R3D049	ΦTS	A	4	-2	2.2	NOM	NOM	126	125	124
50				-2	2.5			115	116	117
51				-5	1.8			155	156	157
52				-5	2.2			166	165	164
53				-5	2.5			167	168	169
54				-7	2.2			194	195	196
55				2	2.5			113	112	111
56			0	-2	2.2			214	213	212
57				-2	2.5			217	218	219
58				-5	2.2			186	185	184
59				-5	2.5			187	188	189
60				2	2.5			206	205	204

TEST RUN NUMBER

NOMINAL THRUSTER CONDITIONS:

MACH	SSME	SRM
1.55	370 PSIA	196 PSIA
1.8	475 PSIA	275 PSIA
2.2	745 PSIA	462 PSIA
2.5	1325 PSIA	750 PSIA

a SCHEDULES: A) -6°, -4°, 0°, 4°, 6°

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TEST: IA138 (ARC 97-246-1) DATA SET/RUN NUMBER COLLATION SUMMARY DATE: 9/5/78 SHEET 5 of 6 JEV

DATA SET IDENTIFIER	CONFIGURATION	α	β	δe_I	δe_B	SSME	SRM		MACH NUMBER 1.55	1.8	2.2	2.5
R3D061	ØTS	0	0	10	-2	V_1	245	psia				9
62							332					8
63							431					7
64							587					5
65							787					6
66						V_2	174				15	
67							245				14	
68							326				12	
69							422				11	
70							533				10	
71						V_3	119			22		
72							157			23		
73							200			24		
74							269			25		
75							246			26		
76						V_4	81		17			
77							120		18			
78							154		19			

TEST RUN NUMBER

NOMINAL SCHEDULES

V_1) 700 psia to 1100 psia
V_2) 475 psia to 775 psia
V_3) 250 psia to 500 psia
V_4) 225 psia to 400 psia

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DMS CCL

Table II (Continued)

TEST: IA138 (ARC 97-246-1) DATA SET/RUN NUMBER COLLATION SUMMARY DATE: 9/5/78 SHEET 6 of 6 JEV

DATA SET IDENTIFIER	CONFIGURATION	α	β	δe_I	δe_ϕ	SSME	SRM	MACH NUMBER 1.55	1.8	2.2	2.5
R3D079	OTS	0	0	10	-2	V_4	197	20			
80	OTS	0	0	10	-2	V_4	237	21			
81	OTS	0	0	10	-2	1190	V_5				29
82	OTS	0	0	10	-2	1287	V_5				30
83	OTS	0	0	10	-2	893	V_6			27	
84	OTS	0	0	10	-2	988	V_6			28	
86	OTS	0	0	0	-2	800	460			215	
87	OTS	0	0	0	-2	500	870			216	
								BETA			
89	OTS	A		4	-5	328	200	-4	0	4	
								154			

— COEFFICIENT SCHEDULES —

R datasets	CNW	CBMW	CTMW	CHEI	CHEΦ	CPBΦRB	CPBET	CPBSL	CPBSR	Q
S datasets	MACH	PT	P	TTR	TR	ELVI	ELVΦ	TΦRB	TSRB	
T datasets	EI	EΦ	DI	DΦ	CPR02	CPR01	CPRSL	CPRSR		
U datasets	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	ERR2	EPR3	

TEST RUN NUMBER

SCHEDULES

V_4) 225 psia to 400 psia

V_5) 250 psia to 850 psia

V_6) 175 psia to 530 psia

$\alpha_A = \pm 6^\circ, \pm 4^\circ, 0^\circ$

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Table II (Concluded)

DATASET/RUN NUMBER COLLATION SUMMARY

DATASET IDENTIFIER 1st Character		FORCE DATA COEFFICIENT SCHEDULE									
		CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
R	(D/S1-60,89)	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB	
S	(D/S61-87)	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
T		EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR		
U		CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3	

4th Character	PRESSURE DATA COMPONENT
A	Orbiter Fuselage
B	Upper Body Flap
C	Lower Body Flap
D	Orbiter Base
E	#1 SSME Nozzle
F	#3 SSME Nozzle
G	External Tank Base
H	Left SRB
I	Left SRB Nozzle
J	Left SRB Base
K	Right SRB Base
L	Inside Orbiter Maneuvering System (OMS) (Pressure taps 214 and 215)

DATASET SEQUENCE	Independent Variable	
	First	Second
001-060,089	BETA	ALPHA
061-080,087	MACH	SSMEPR
081-084,086	MACH	SRBPR

TABLE III. ELEMENT NONDIMENSIONAL BASE AREAS

ORBITER BASE		ET BASE		SRB BASE	
TAP NO.	A_i/A_{BORB}	TAP NO.	A_i/A_{BET}	TAP NO.	$A_i/A_{B\ SRB}$
328	0.08920	1574	0.05479	2202	0.1250
332	↓	1563	0.24944	2204	↓
333	↓	1546	0.05992	2220	↓
323	0.06113	1549	↓	2221	↓
324	↓	1551	↓	2222	↓
302	0.038133	1553	↓	2223	↓
304	↓	1539	0.02318	2224	↓
305	↓	1537	↓	2218	↓
306	↓	1536	↓		
307	↓	1535	↓		
313	↓	1577	↓		
315	↓	1534	↓		
316	↓	1533	↓		
318	↓	1531	↓		
325	↓	1530	↓		
326	↓	1523	0.01065		
327	↓	1522	↓		
329	↓	1521	↓		
330	↓	1520	↓		
331	↓	1519	↓		
334	↓	1576	↓		
	↓	1518	↓		
	↓	1517	↓		
	↓	1516	↓		
	↓	1502	0.01516		
	↓	1503	↓		
	↓	1501	↓		
	↓	1504	↓		
	↓	1575	↓		
	↓	1505	↓		
	↓	1506	↓		
	↓	1507	↓		
	↓	1508	↓		
	↓	1509	↓		

TABLE IV. IA138 PRESSURE DATA DELETIONS

a. Orbiter Fuselage

DATA SET	BETA	ALPHA	ϕ	X/ℓ_ϕ	TAP NO.
R3DA01/31	-4	ALL	20°	.825	233
02/32	-4	ALL	$0^o, 20^o$		173,233
03/33	-4,0	ALL			
04/34	-4	ALL			
04/34	0	-6,-4,0			
05/35	-4	ALL			
06/36	-4	ALL			
06/36	0	-6,-4			
07/37	-4,0	ALL			
08/38	-4	-8,-6,-4,0			
08/38	-4	-8,-6,-4,0	$20^o, 40^o$	.693	222,223
09/39	-4	ALL	$0^o, 20^o$	.825	173,233
10/40	-4,0	ALL			
11/41	-4,0	ALL			
12/42	-4	-8,-6,-4,0			
13/43	-4	ALL			
14/44	-4	ALL			
15/45	-4	-8,-6,-4,0			
16/46	-4	ALL			
17/47	-4	-8,-6,-4,0			
18/48	-4	-8,-6,-4,0			
19/49	-4	ALL			
20/50	-4	ALL			
20/50	0	-6,-4,0			
21/51	-4	ALL			
22/52	-4	ALL			
22/52	0	-6,-4,0			
23/53	-4	ALL			
23/53	0	-6,-4,0			
24/54	-4	ALL			
24/54	0	-6,-4,0			
25/55	-4	ALL			
25/55	0	-6,-4,0			
26/56	-4	ALL			
26/56	0	-6,-4,0			
27/57	-4	ALL			
27/57	0	-6,-4,0			
28/58	-4	ALL			
28/58	0	-6,-4,0			
29/59	-4	ALL			
29/59	0	-6,-4,0			
30/60	-4	ALL			
30/60	0	-6,-4,0			

TABLE IV. (Continued)

b. Left SRB

DATA SET	BETA	ALPHA	ϕ	X/ℓ_s	TAP NO.
R3DH01	-4	ALL	45°,225°	.838	2112,2117
01	-4	ALL	315°	.997	2179
04	-4	ALL	225°	.838	2117
05	-4	-6,-4,0	45°	.838	2112
	-4,0	ALL	225°	.838	2117
	-4,0	ALL	225°	.976	2165
	-4	-6,-4,0	315°	.976	2169
	-4	4,6	315°	.997	2179
	0	ALL	315°	.997	2179
06/36	-4,0	ALL	225°	.976	2165
07	-4	ALL	225°	.838	2117
07	-4,0,4	ALL	225°	.976	2165
08	-4	ALL	225°	.976	2165
08	-4	ALL	315°	.997	2179
10	-4	ALL	225°	.838	2117
10	-4,0,4	ALL	225°	.976	2165
49	-4	-6,-4	225°	.976	2165
51		ALL			
52		-6,-4,0			
53		-6,-4			
54					
55					
56					
57					
58					
59					
60					

c. Body Flap - Upper Surface

DATA SET	BETA	ALPHA	η	x/C_{bf}	TAP NO.
R3DB36	0	-6	.50	-.10	413

TABLE IV. (Continued)

d. Left SRB Nozzle

DATA SET	BETA	ALPHA	ϕ	X/D	TAP NO.
R3DI01	4	4	270	.015,.135	2438,2426
03	-4,0,4	ALL	300	.135	2427
04	-4,0,4	ALL	300	.135	2427
05	0	4	60	.015	2431
06	4	4	60	.015	2431
06	-4,0,4	ALL	300	.135	2427
07	-4,0,4	ALL	300	.135	2427
10	-4,0,4	ALL	300	.135	2427
11	-4	6	60,90	.015	2431,2432
11	-4,0,4	ALL	300	.135	2427
19	↓	↓	↓	↓	↓
20/50					
23					
24					
25					
26					
27/57					
28					
29/59					
30/60					

TABLE IV. (Continued)

e. No. 1 SSME Nozzle

DATA SET	BETA	ALPHA	ϕ	X/D	TAP NO.
R3DE02	ALL	ALL	0	.058	31
02			300°	.320	53
03/33			0	.058	31
03/33			300	.320	53
04/34			0	.058	31
04/34			300	.320	53
06/36			0	.058	31
06/36			300	.320	53
07/37			0	.058	31
07/37			300	.320	53
09			0	.058	31
09			300	.320	53
10			300	.320	53
40			0	.058	31
40			300	.320	53
11/41			0	.058	31
11/41			300	.320	53
12/42		4	30	.580	56
12/42	4	0	30	.580	56
14	ALL	ALL	300	.320	53
17/47			300	.320	53
19/49			300	.320	53
20/50			0	.058	31
20/50			300	.320	53
20/50			30	.580	56
21			300	.320	53
22/52			0	.058	31
			300	.320	53
23/53			0	.058	31
			300	.320	53
24/54			300	.320	53
25			300	.320	53
55			0	.058	31
55			300	.320	53
55			30	.580	56
26			0	.058	31
26			30	.580	56
26/56			300	.320	53
27/57			0	.058	31
27/57			300	.320	53
28		-4,0	30	.580	56

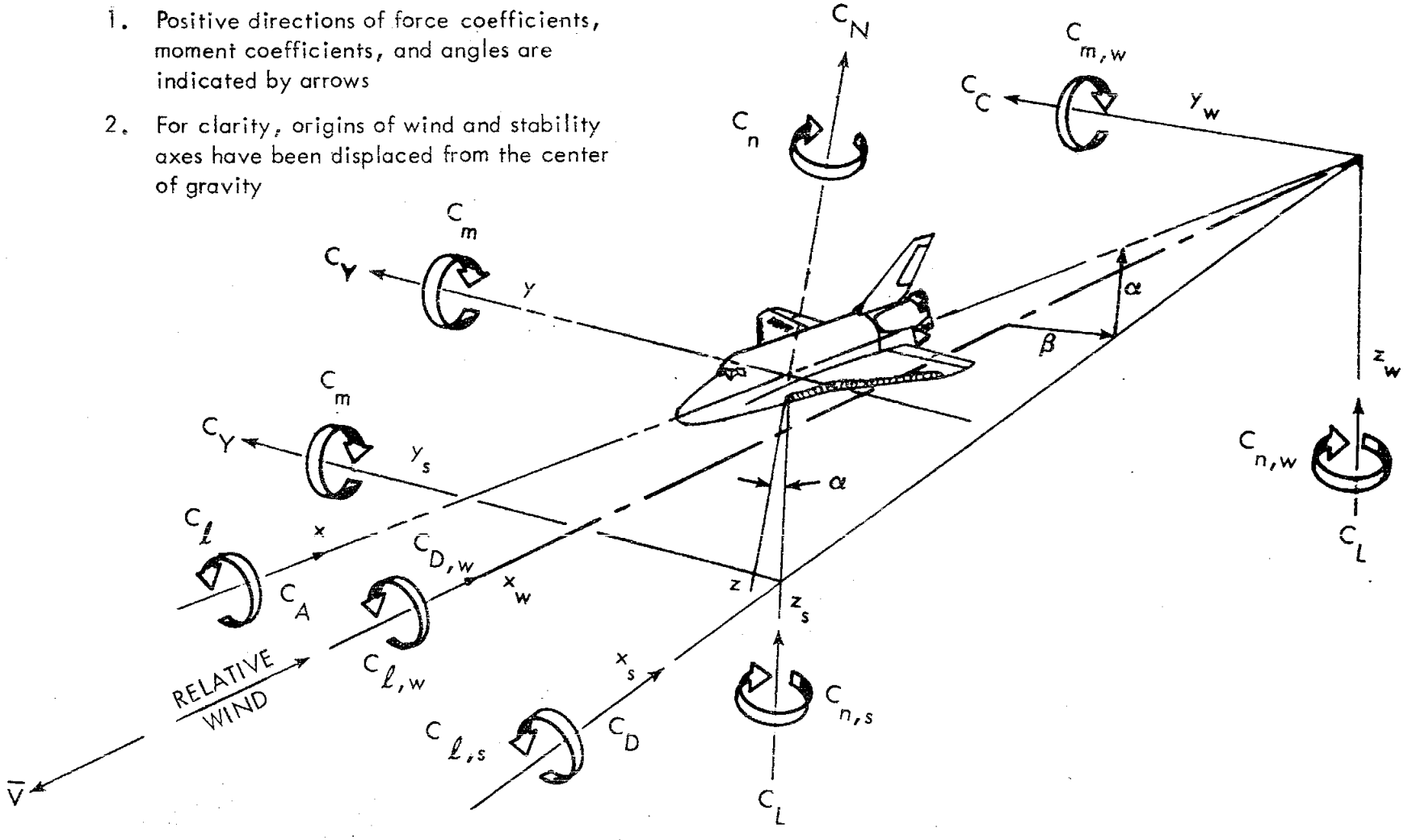
TABLE IV. (Concluded)

e. (Continued)

DATA SET	BETA	ALPHA	ϕ	X/D	TAP NO.
R3DE28/58	ALL	ALL	0	.058	31
28/58	↓	↓	300	.320	53
29/59			0	.058	31
			300	.320	53
30			30	.580	56
30/60			0	.058	31
30/60			300	.320	53

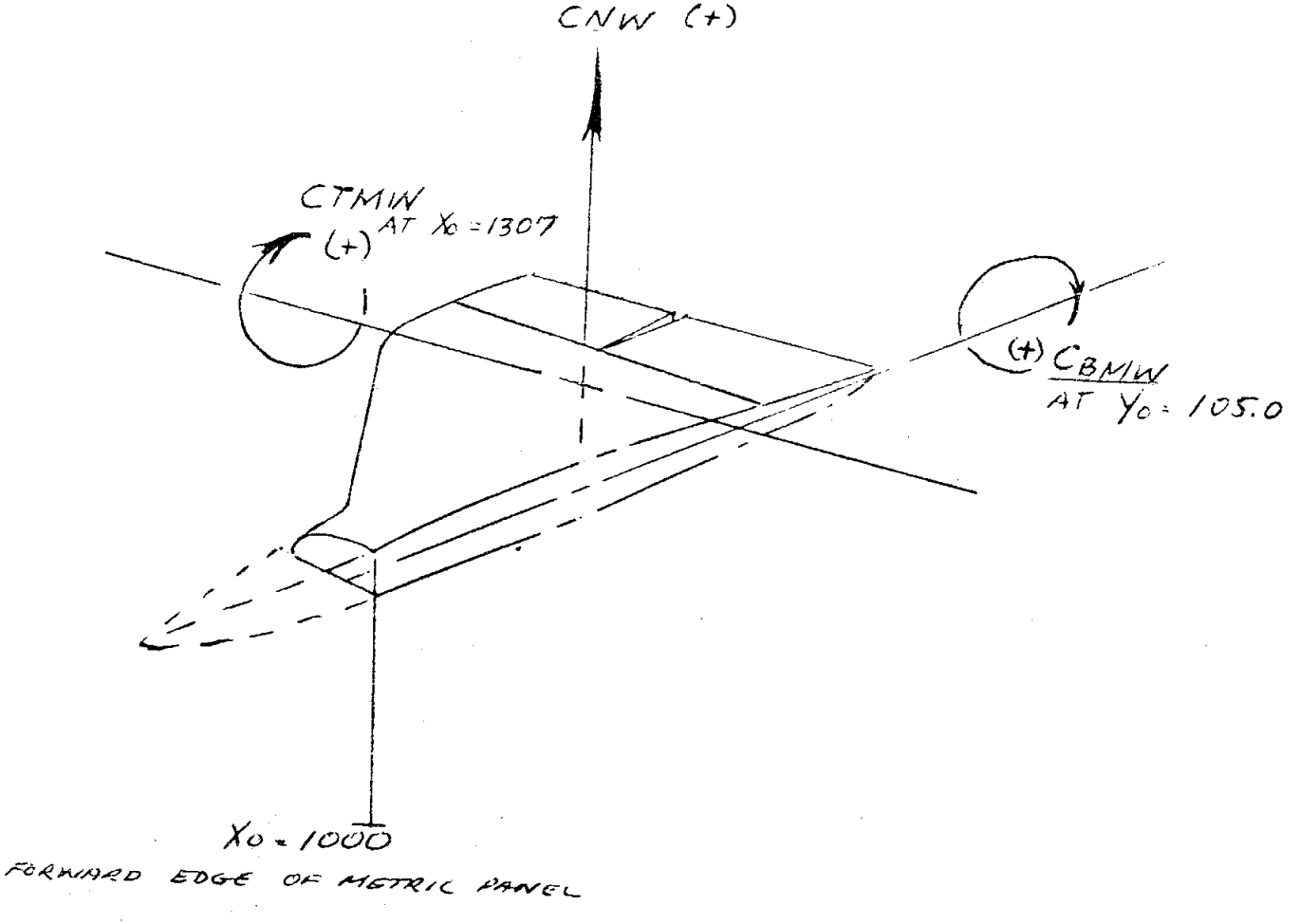
Notes:

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



a. Axis Systems Definition

Figure 1. Axis systems and sign convention.



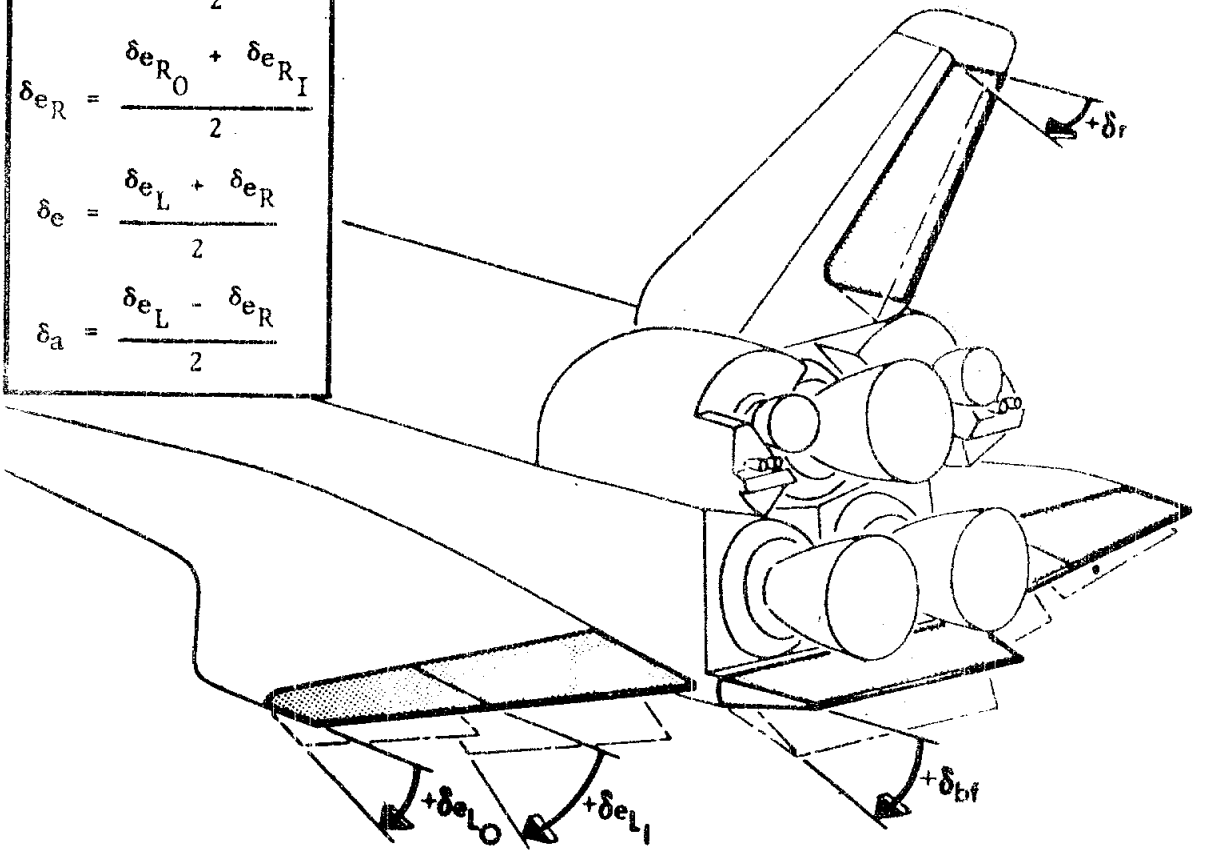
b. Instrumented Wing Panel Coordinate System
Figure 1. Continued.

$$\delta_{e_L} = \frac{\delta_{e_{L_O}} + \delta_{e_{L_I}}}{2}$$

$$\delta_{e_R} = \frac{\delta_{e_{R_O}} + \delta_{e_{R_I}}}{2}$$

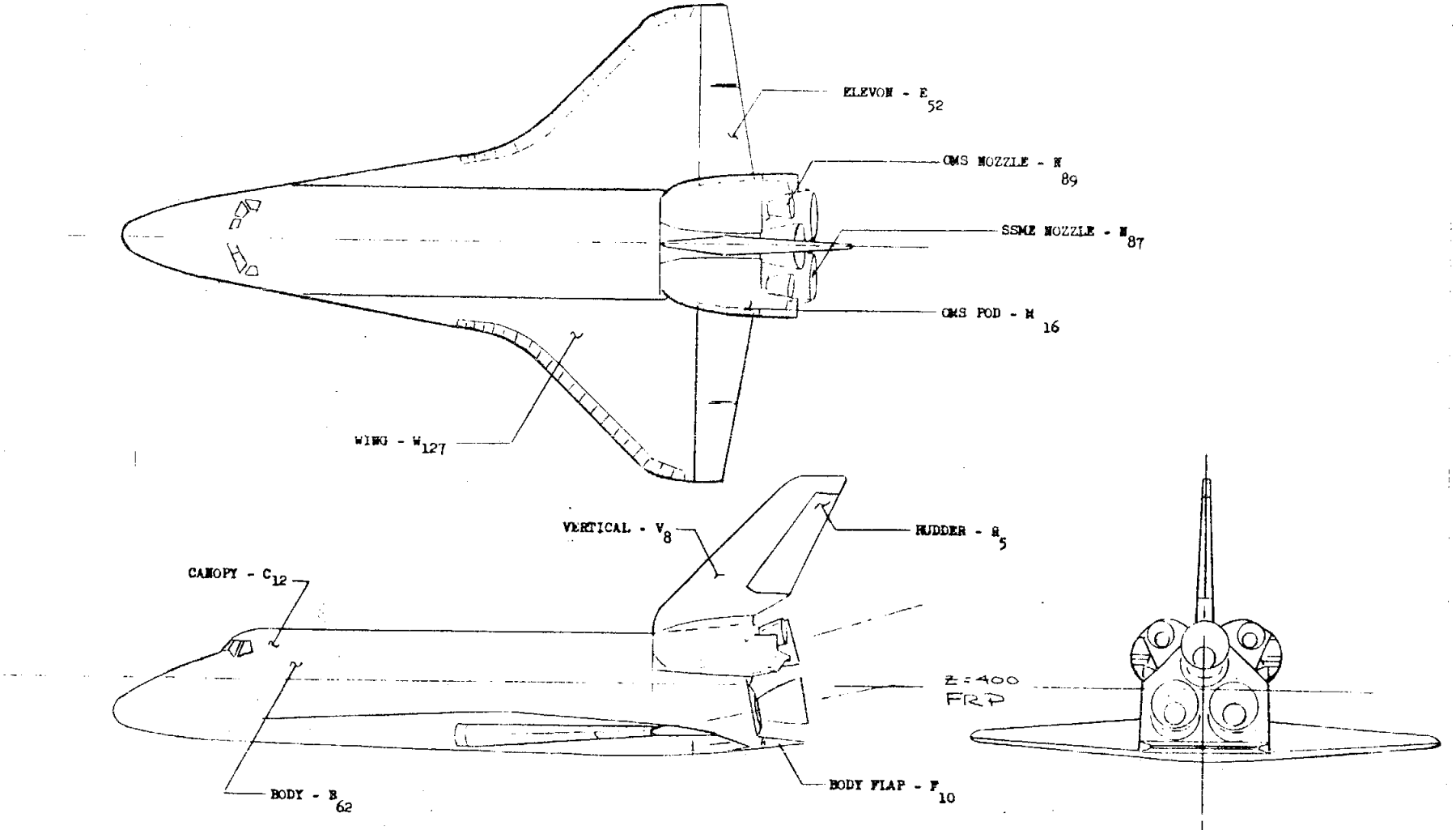
$$\delta_e = \frac{\delta_{e_L} + \delta_{e_R}}{2}$$

$$\delta_a = \frac{\delta_{e_L} - \delta_{e_R}}{2}$$



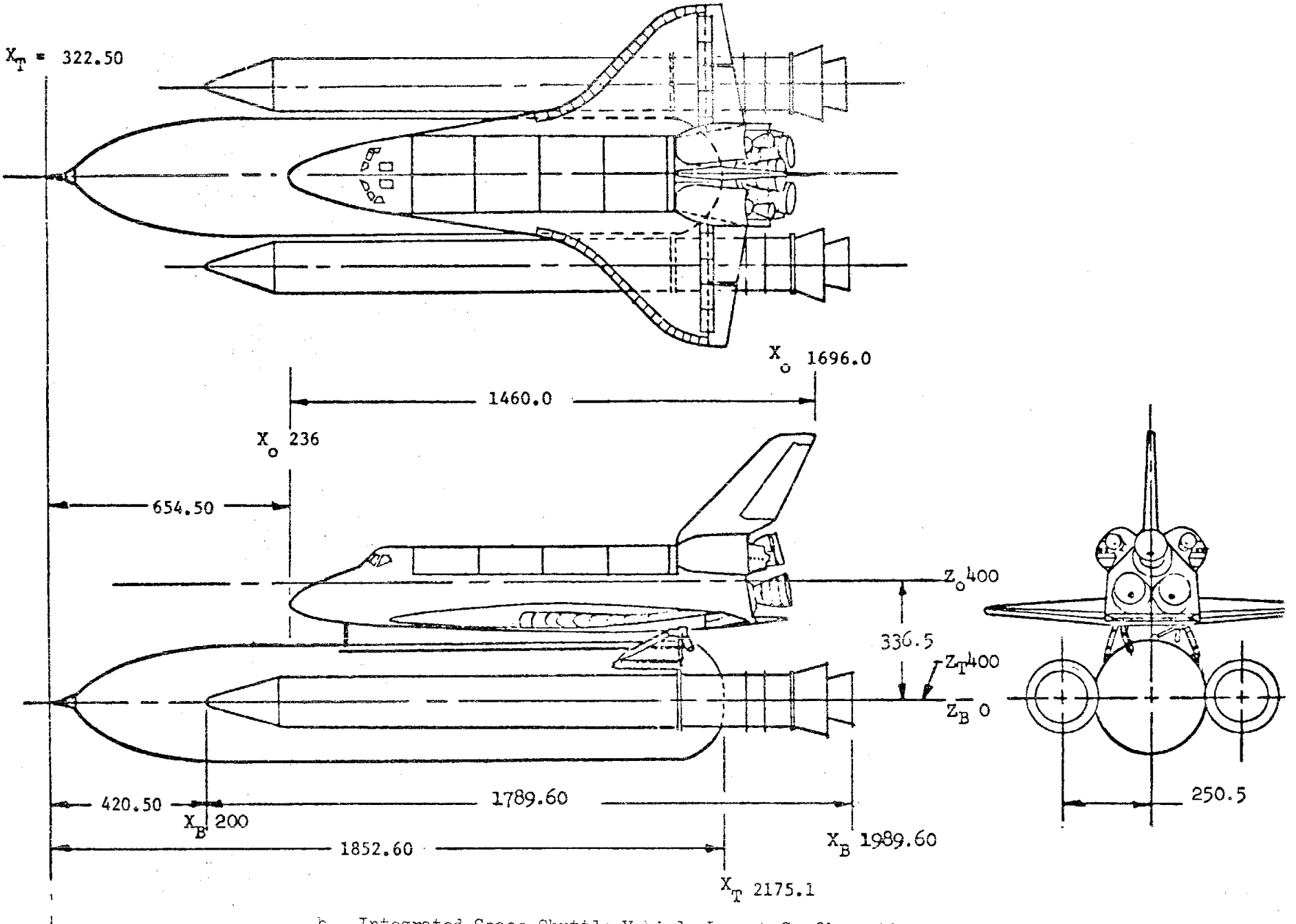
Positive Deflection of	Angle	Aero Forces and Moments	Hinge Moment
Rudder, δr	$+\beta$, $-\psi$	$+C_Y$, $-C_n$	$-C_{h_r}$
Elevon, δ_e	$-\alpha$, $-\theta$	$-C_m$	C_{h_e}
Right, δ_{e_R}	$-\phi$	$-C_\ell$	$-C_{h_{e_R}}$
Left, δ_{e_L}	$+\phi$	$+C_\ell$	$-C_{h_{e_L}}$
Aileron, δ_a	$+\phi$	$+C_\ell$	
Body Flap, δ_{bf}	$-\alpha$, $-\theta$	$-C_m$	$-C_{h_{bf}}$

c. Control Surface Deflections
Figure 1. Concluded.

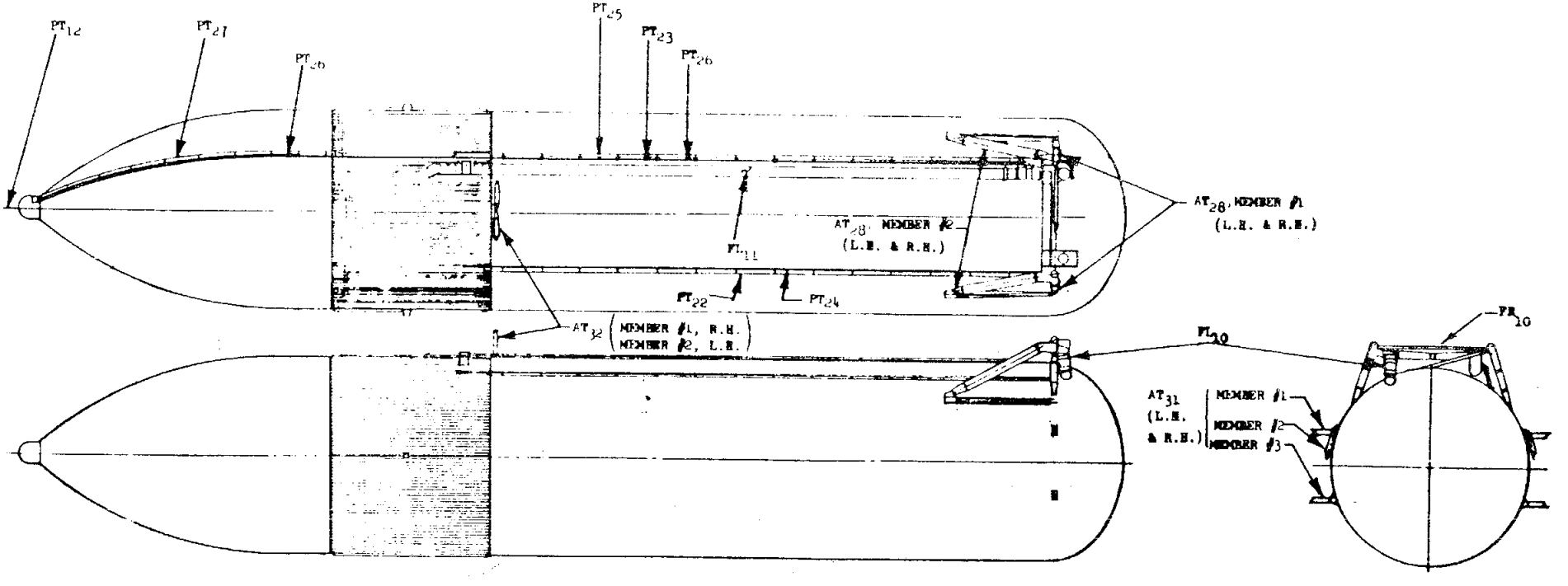


a. Orbiter (O_1) Components

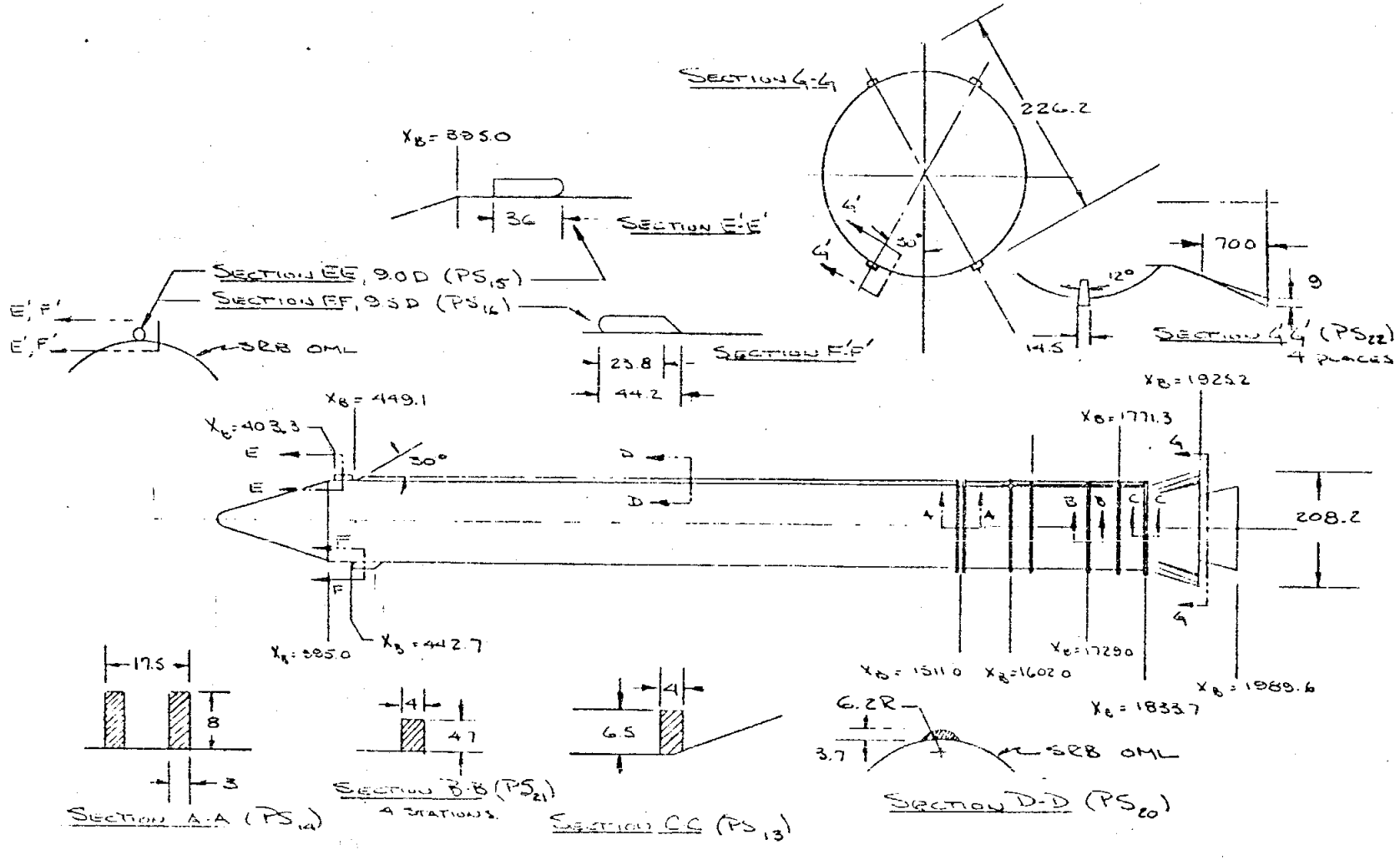
Figure 2. Model sketches.



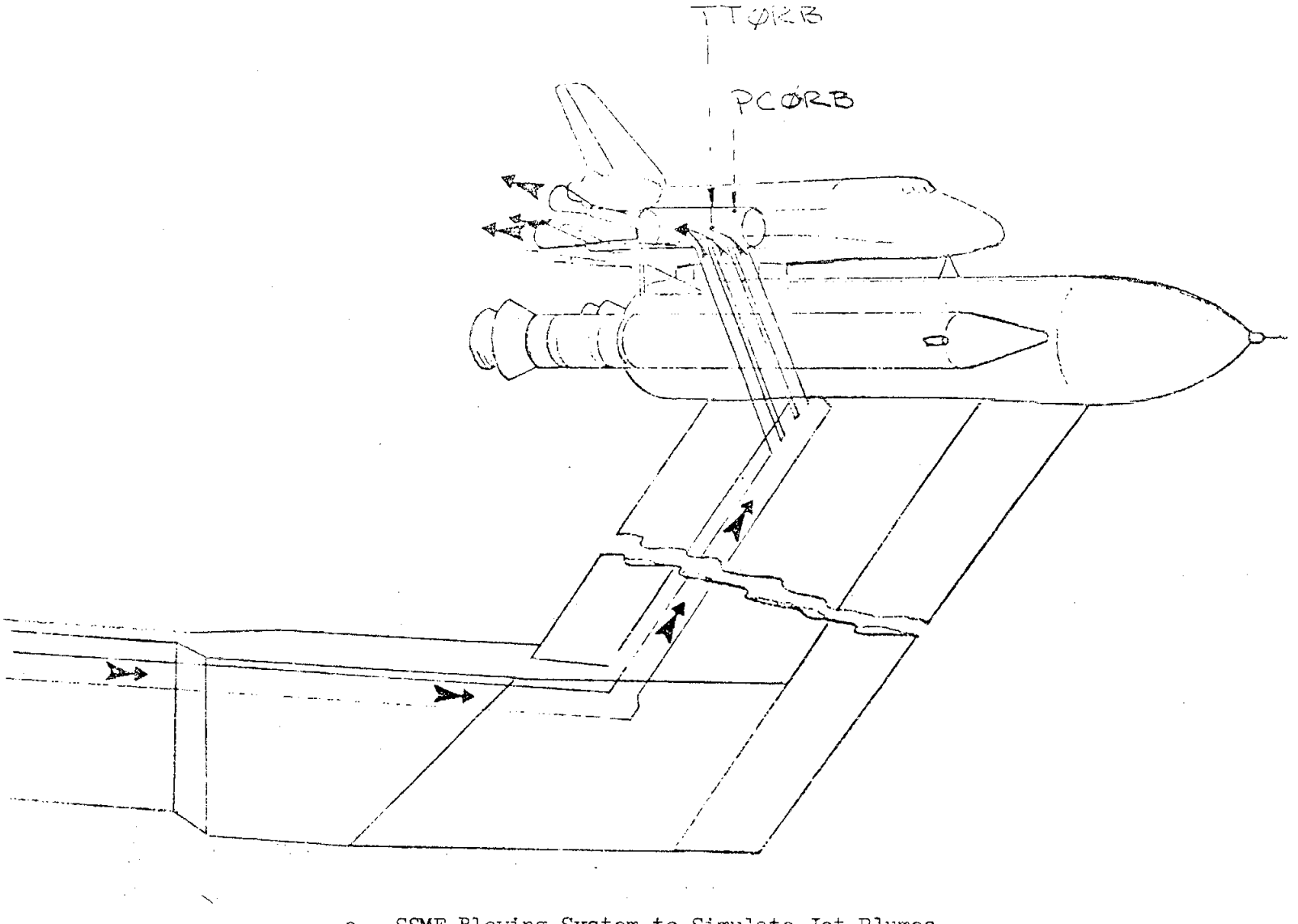
b. Integrated Space Shuttle Vehicle Launch Configuration
Figure 2. Continued



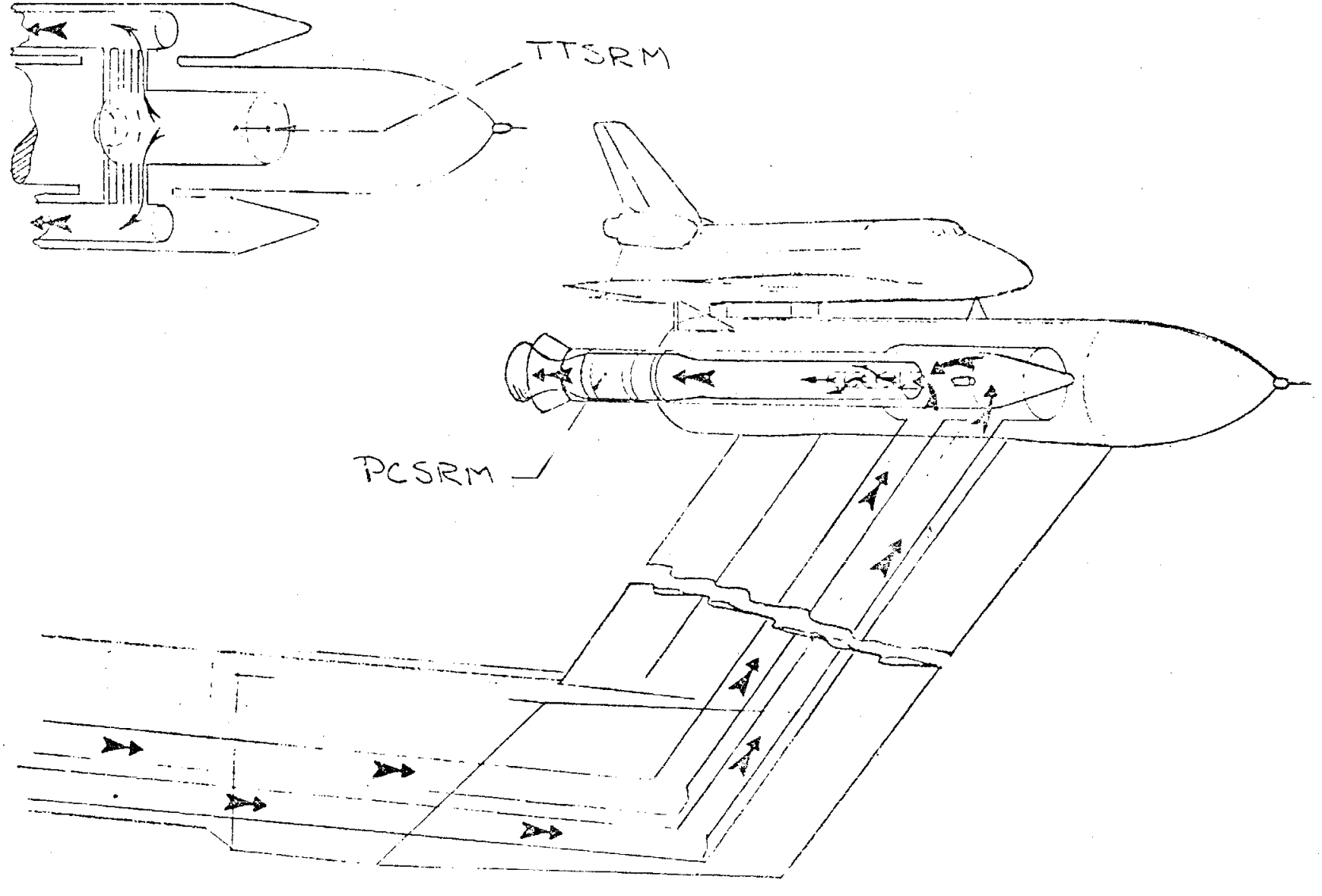
c. External Tank (T_{28}) Protrusions
Figure 2. Continued.



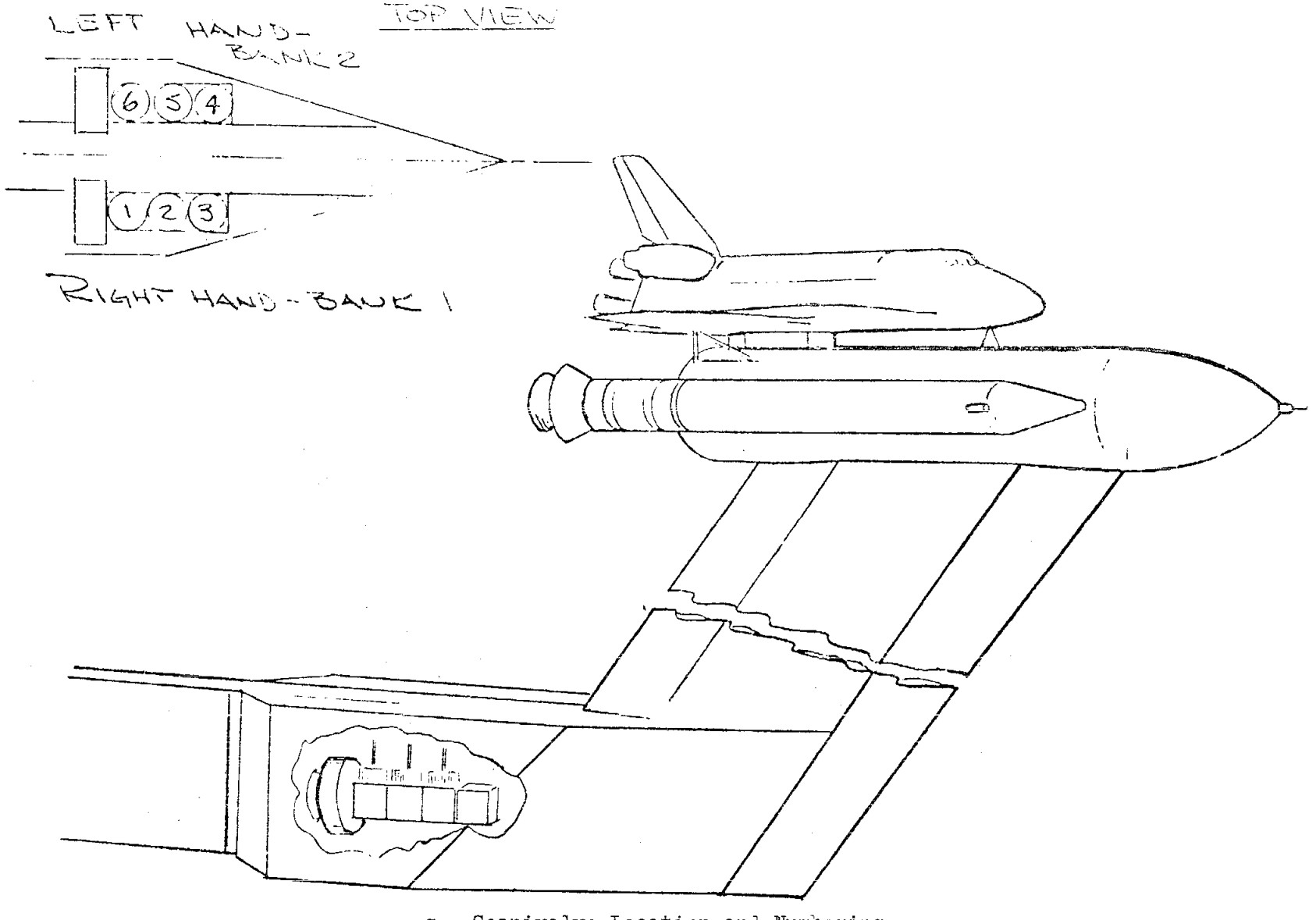
d. Solid Rocket Booster (S_{22}) Protrusions
Figure 2. Continued.



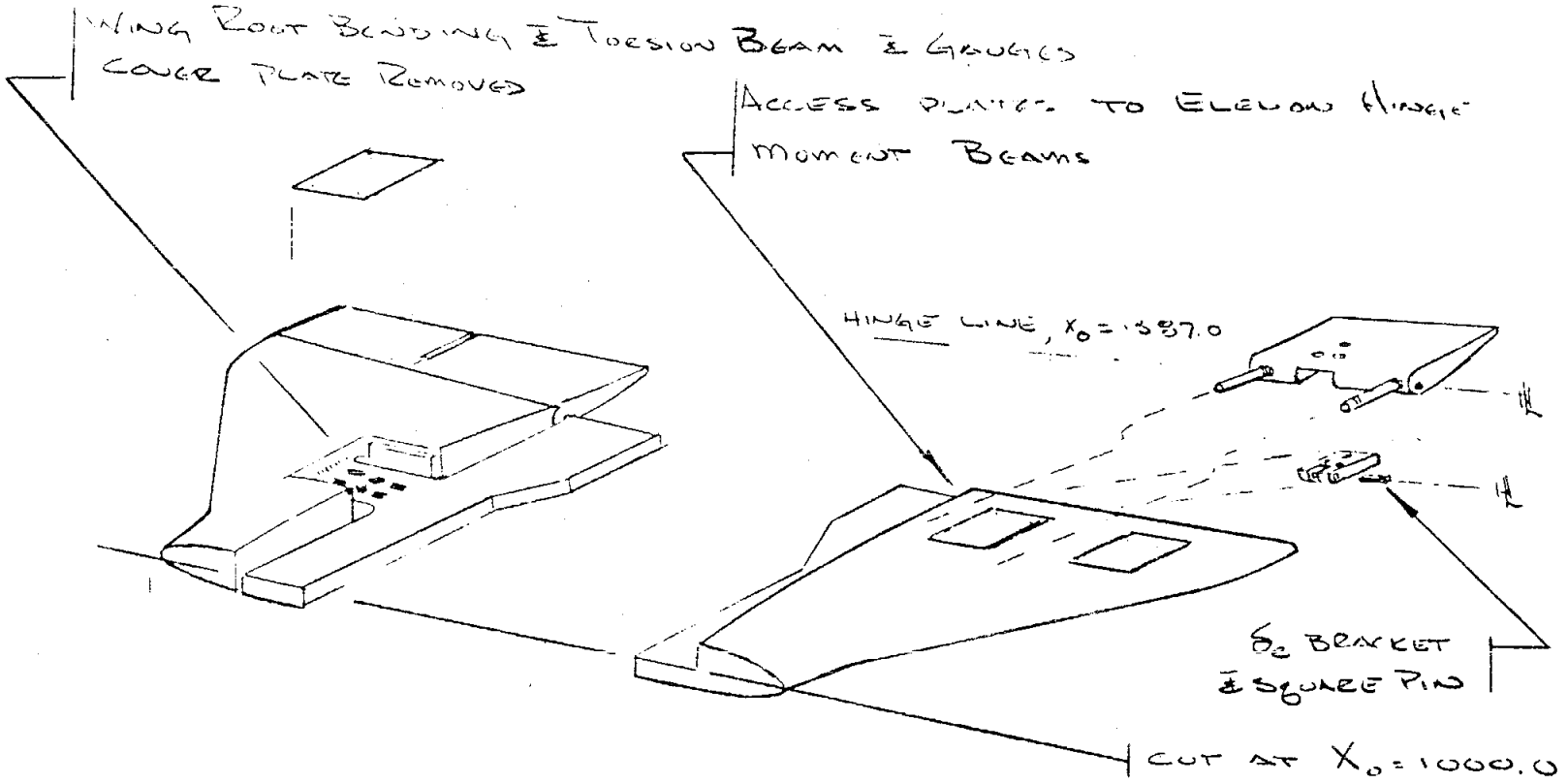
e. SSME Blowing System to Simulate Jet Plumes
Figure 2. Continued.



f. SRB Blowing System to Simulate Jet Plumes
Figure 2. Continued.



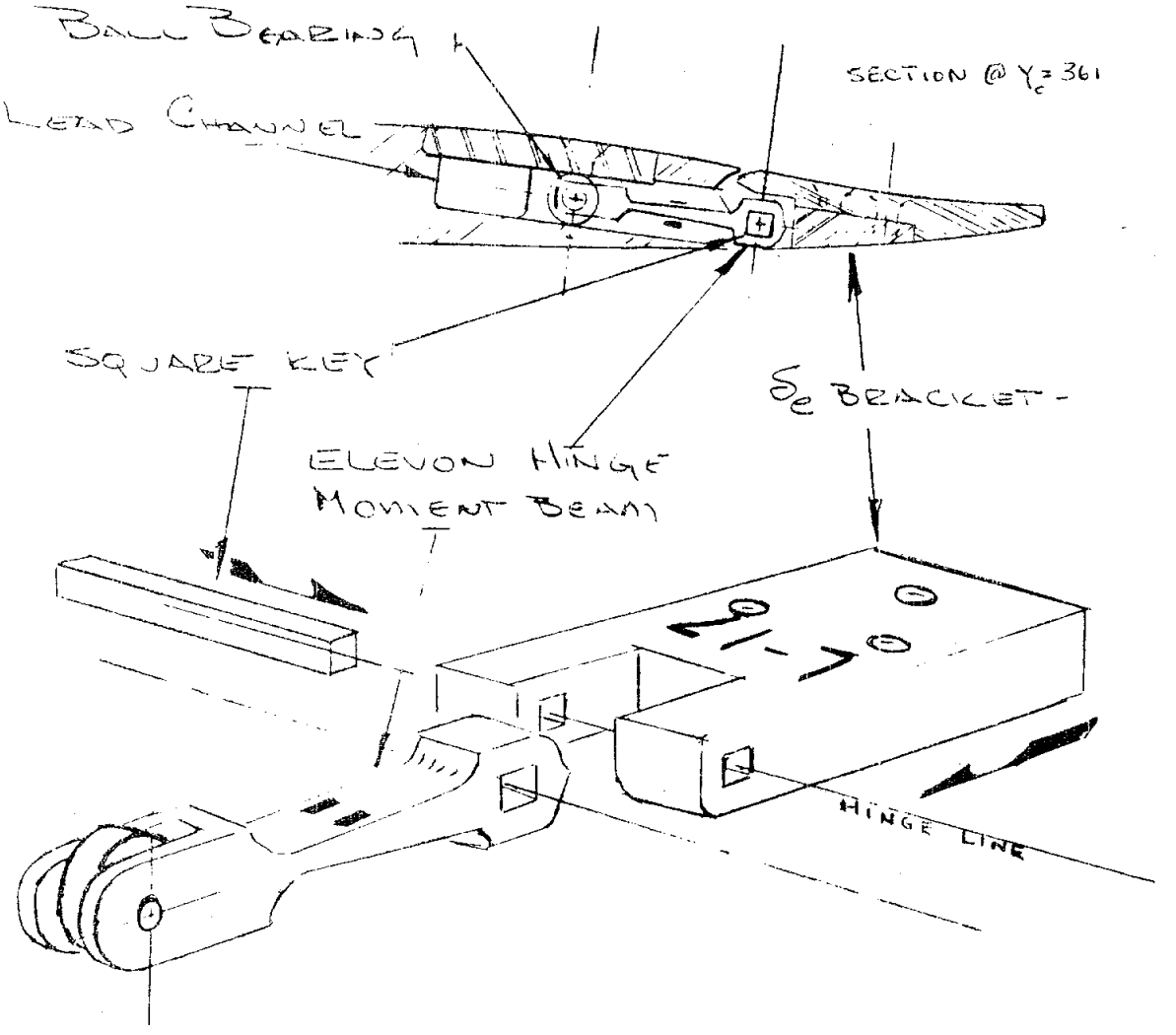
g. Scanivalve Location and Numbering
Figure 2. Continued.



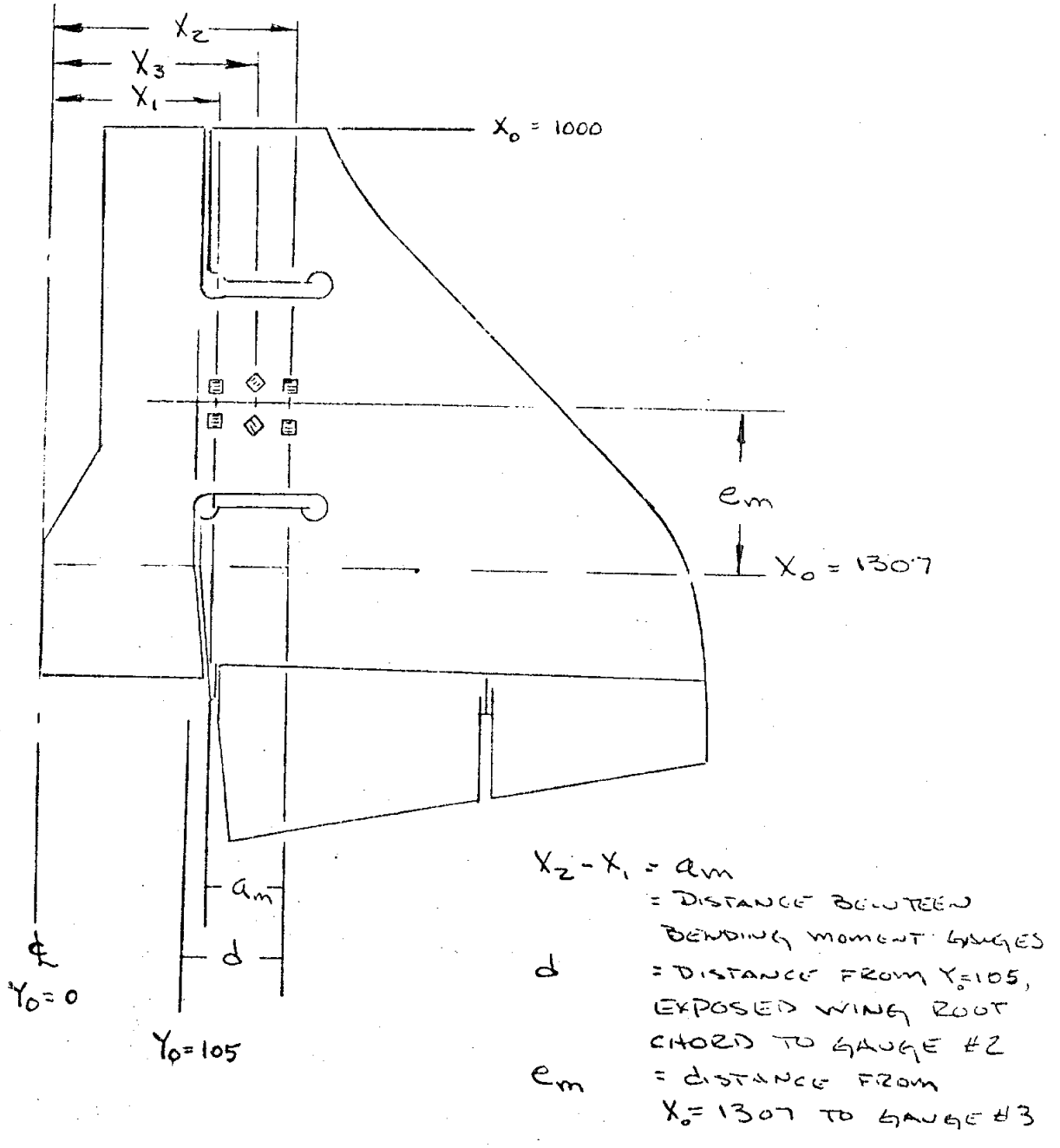
NOTE THAT THE ELEVON IS REMOVED FROM THE WING AND δ_e BRACKET WITH THE HINGES ATTACHED

REF. DWG: SSA 01396
SSA 01278

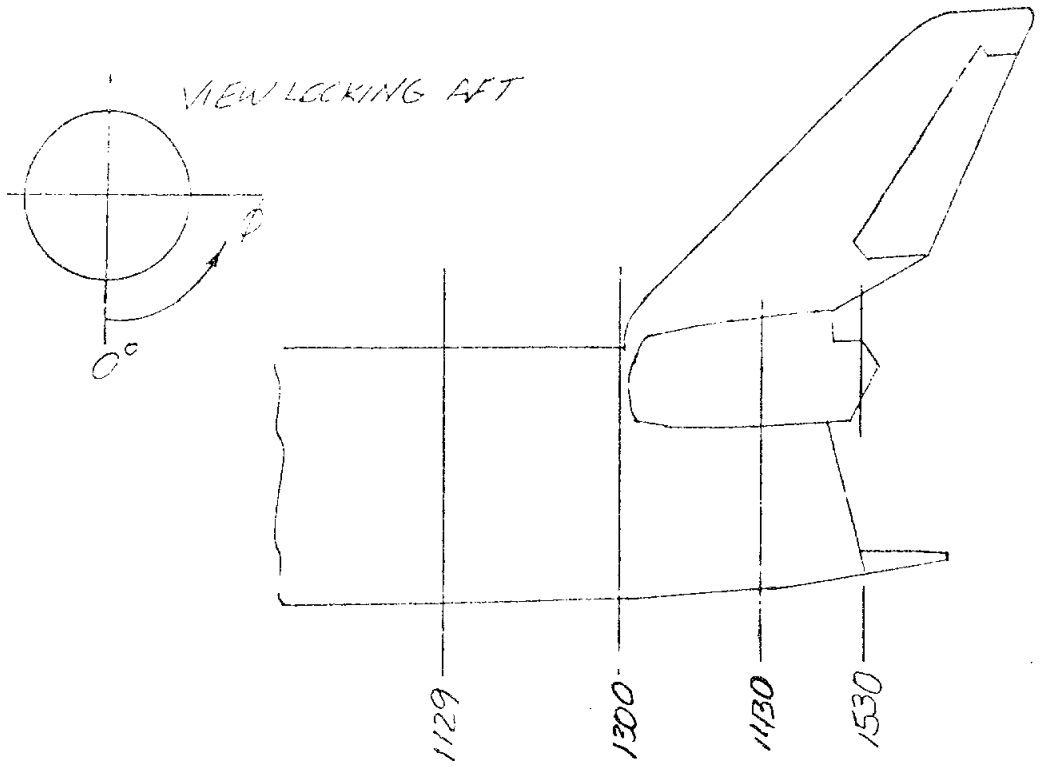
h. General Wing Layout
Figure 2. Continued.



i. Elevon Gauge Details
Figure 2. Continued.



j. Wing Panel Data Reduction Distances
Figure 2. Continued.

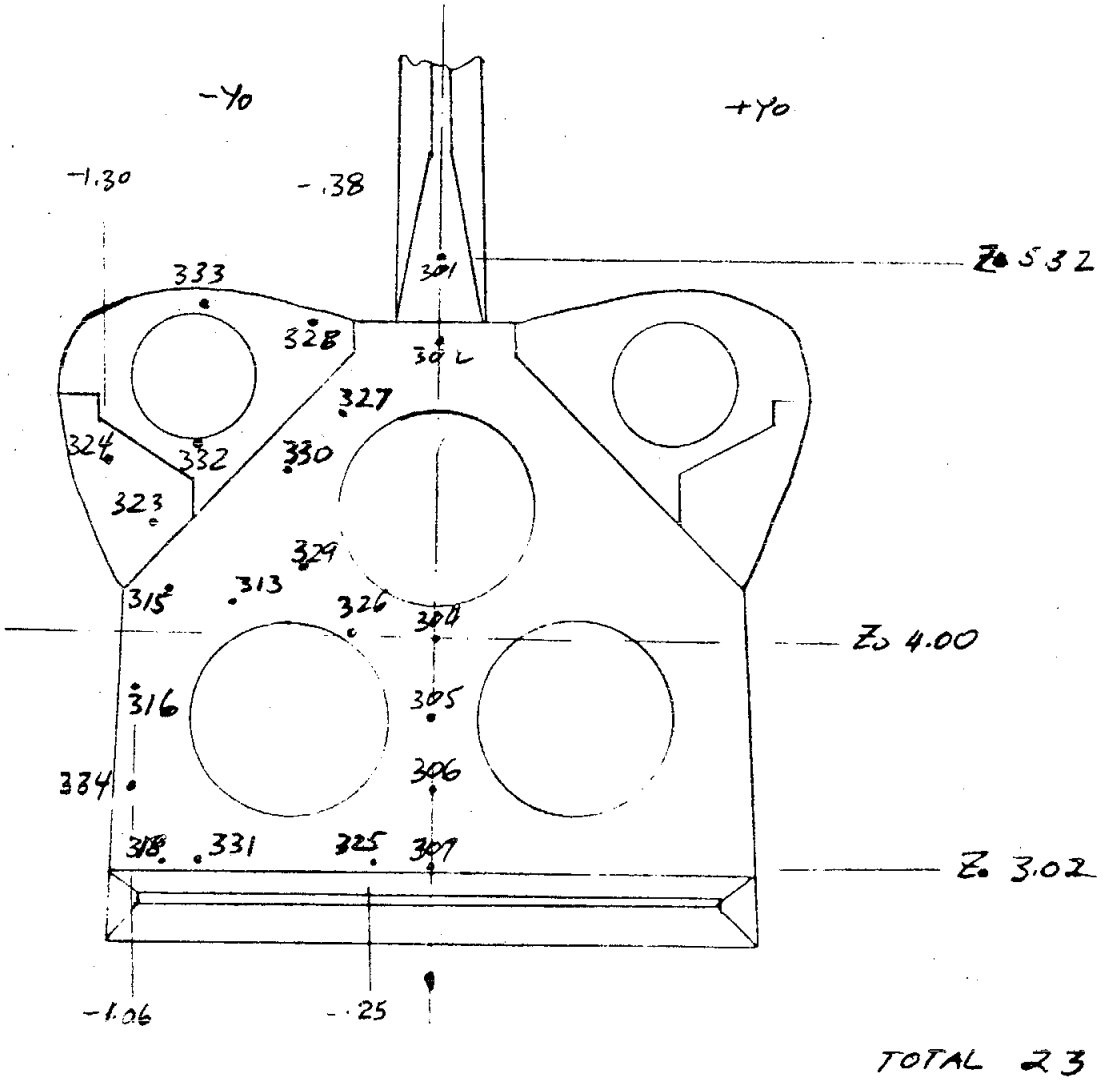


ORB. STA.		Ø RADIAL LOCATION ~ DEG.											
$X_{o,F.S}$	X_o/L_o	0	20	40	70	90	105	110	120	135	150	165	180
1070	.6471												
1129	.6929		222	223	224	225	226	-	227	228	229	230	231
1215	.7595												
1300	.8254	173	233	174	175	176	177	-	178	179	180	234	181
1375	.8835												
1430	.9261	194	236	195	196	197	198	-	199	200	201	202	-
1480	.9649												
1530a	1.0036	-	-	-	-	-	-	214	215	-	-	-	
1530b	1.0036	-	-	-	-	-	-	216	217	-	-	-	
										TOTAL			35

L_o = 1290.3 INCHES

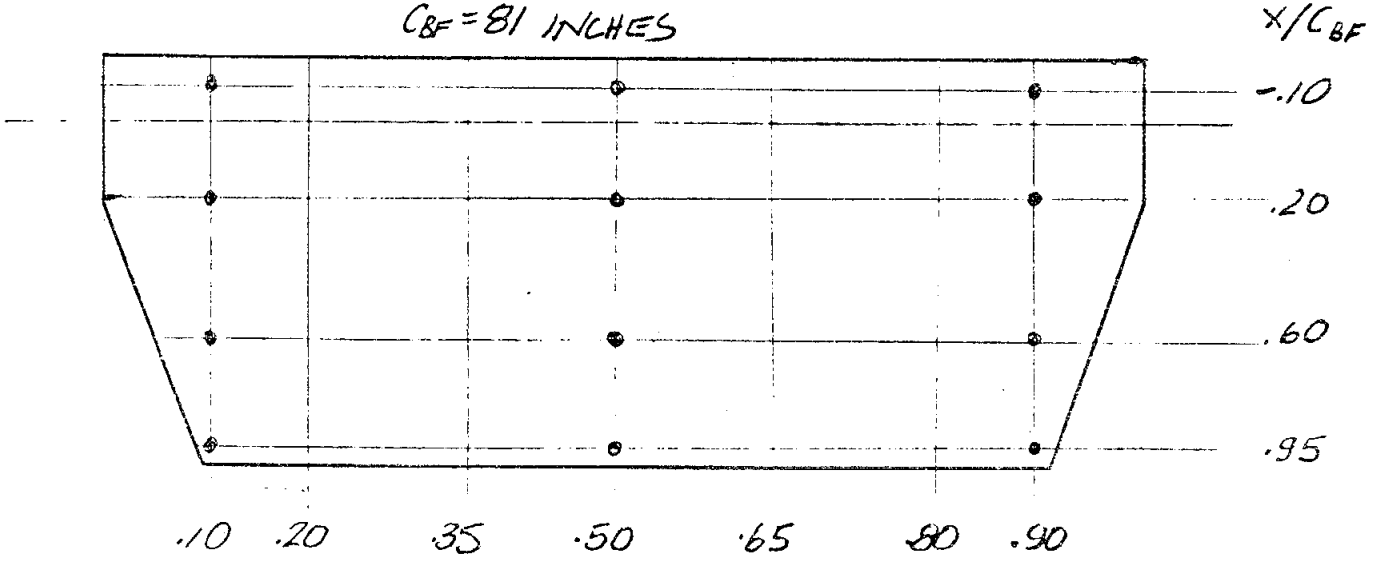
NOTE: $\frac{X_{o,} - 235}{L_o} = X_o/L_o$

k. Orbiter Fuselage Pressure Tap Array
Figure 2. Continued.

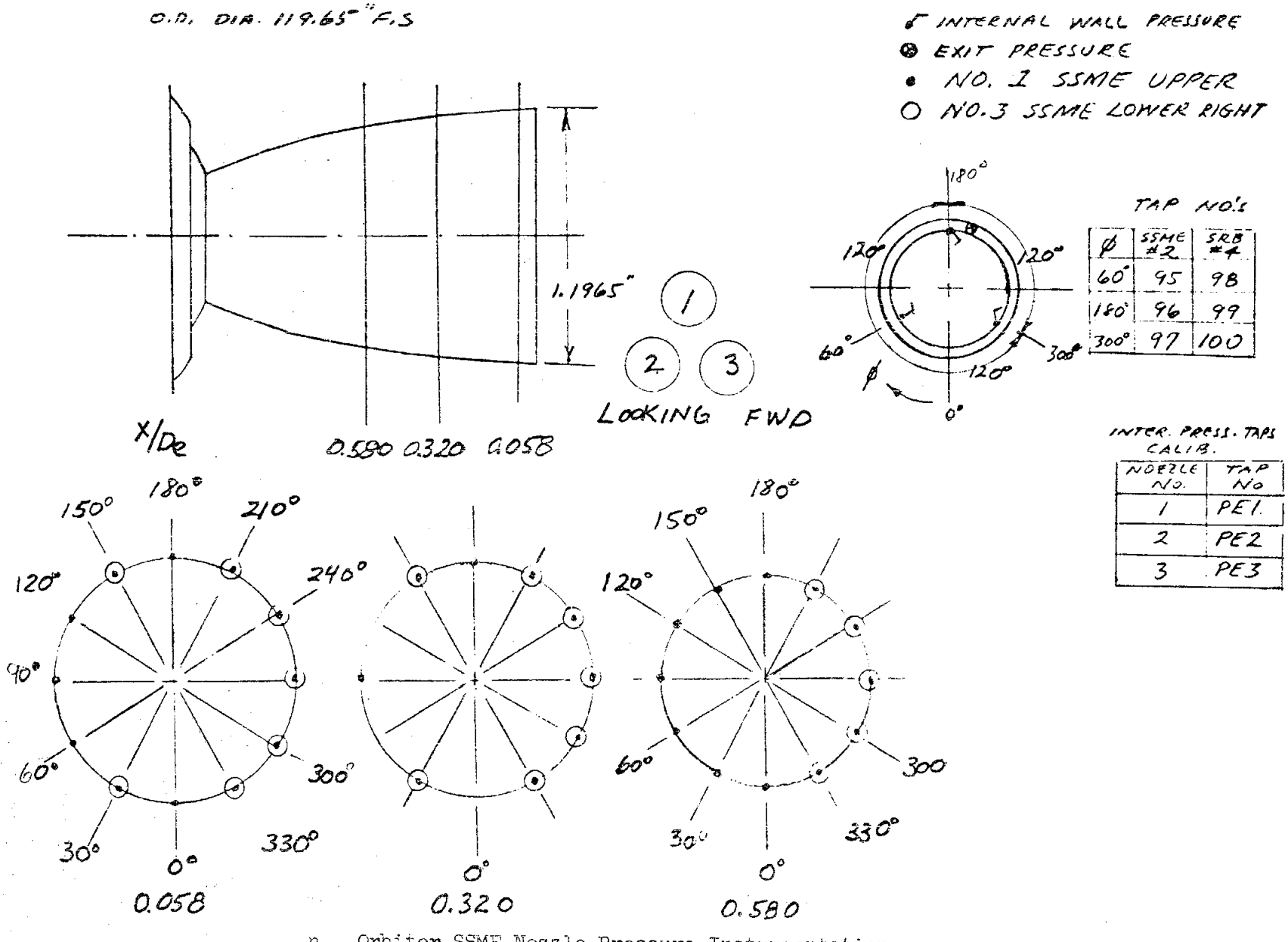


1. Orbiter Base Pressure Tap Location
Figure 2. Continued.

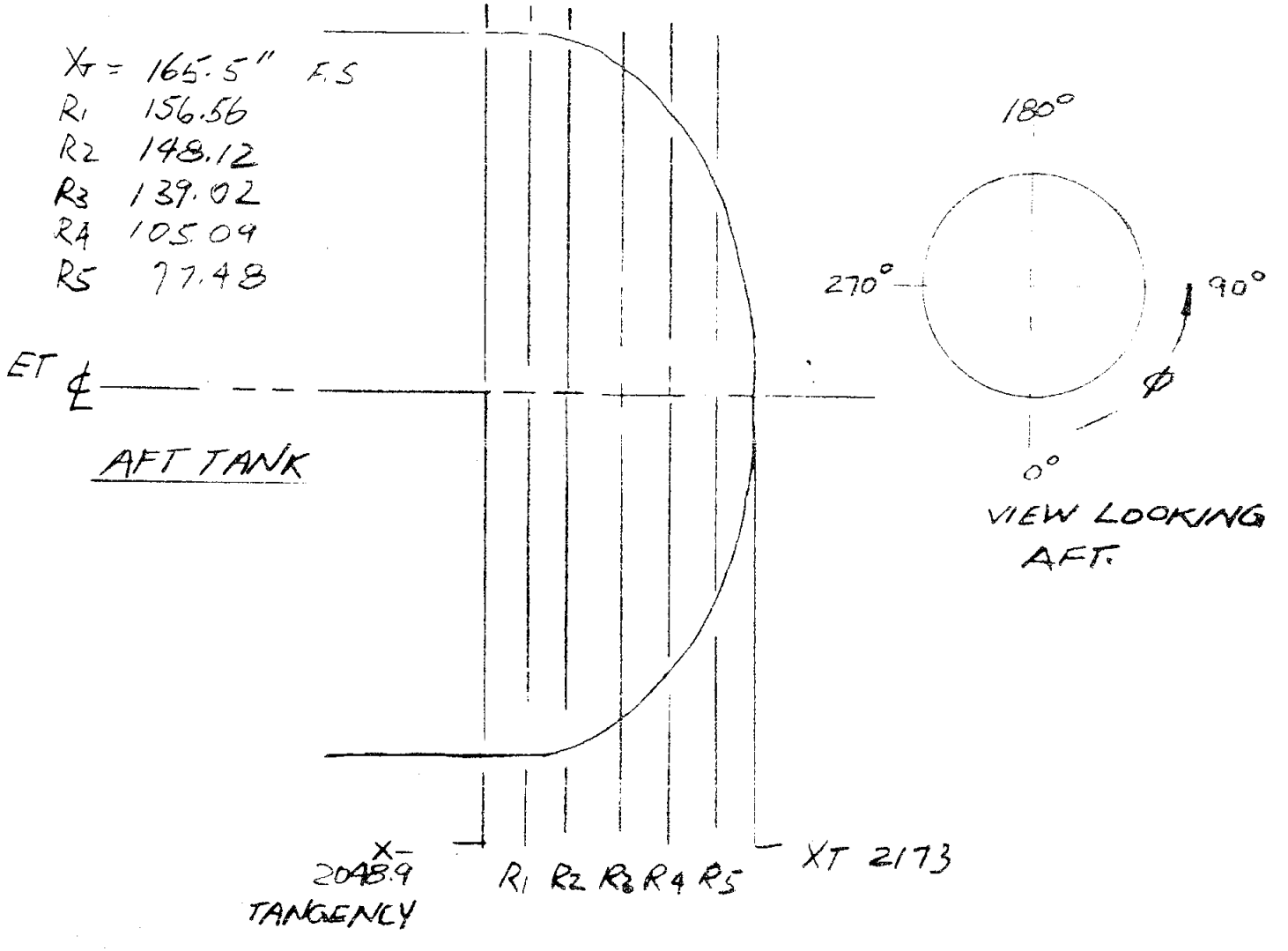
η	X/C_{BF}				LOCATION
	-.10	.20	.60	.95	
.10	405 401	406 402	407 403	408 404	UPPER LOWER
.50	413 409	414 410	415 411	416 412	UPPER LOWER
.90	437 433	438 434	439 435	440 436	UPPER LOWER
				TOTAL 24	



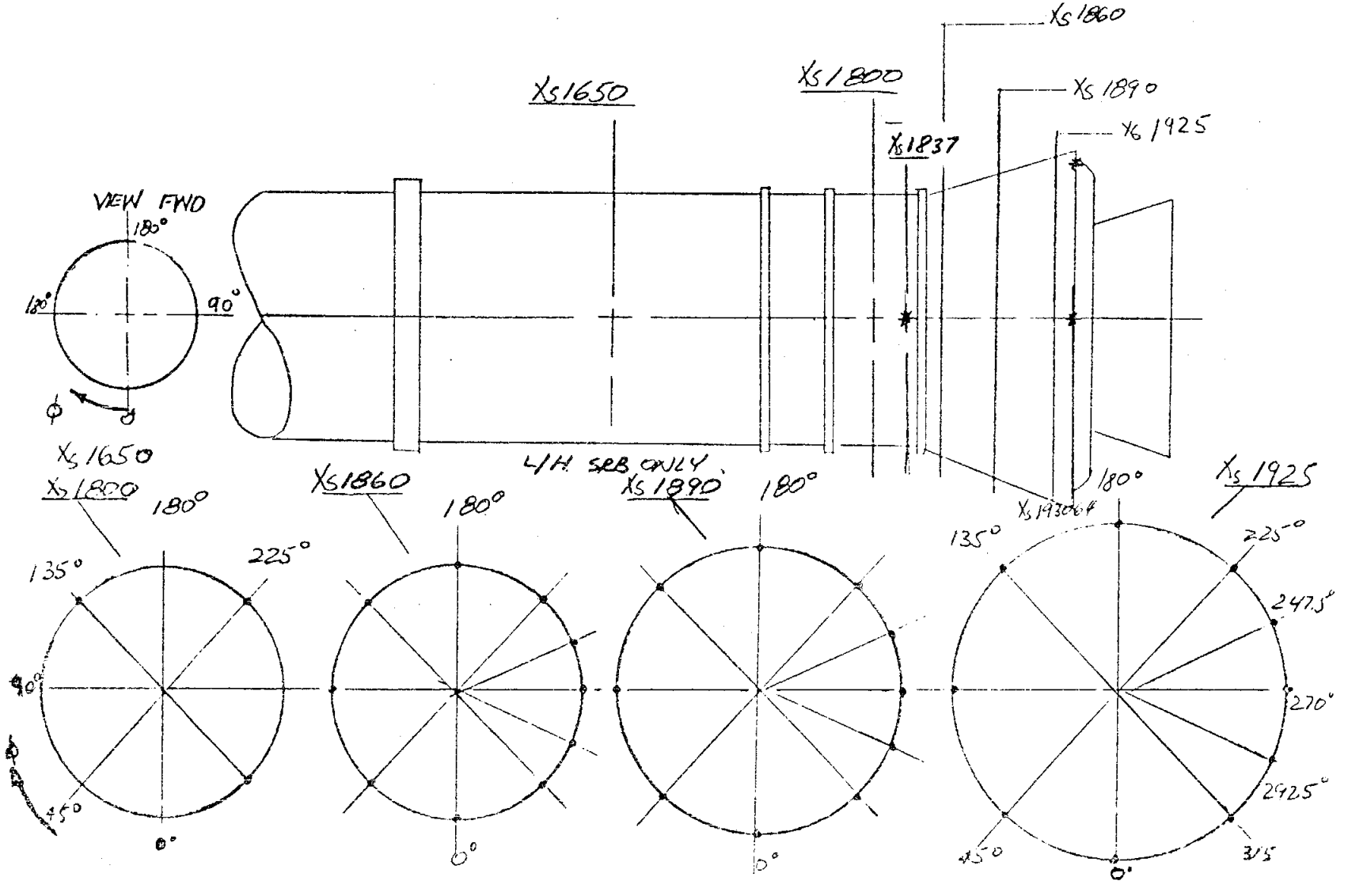
m. Body Flap Pressure Tap Location
Figure 2. Continued.



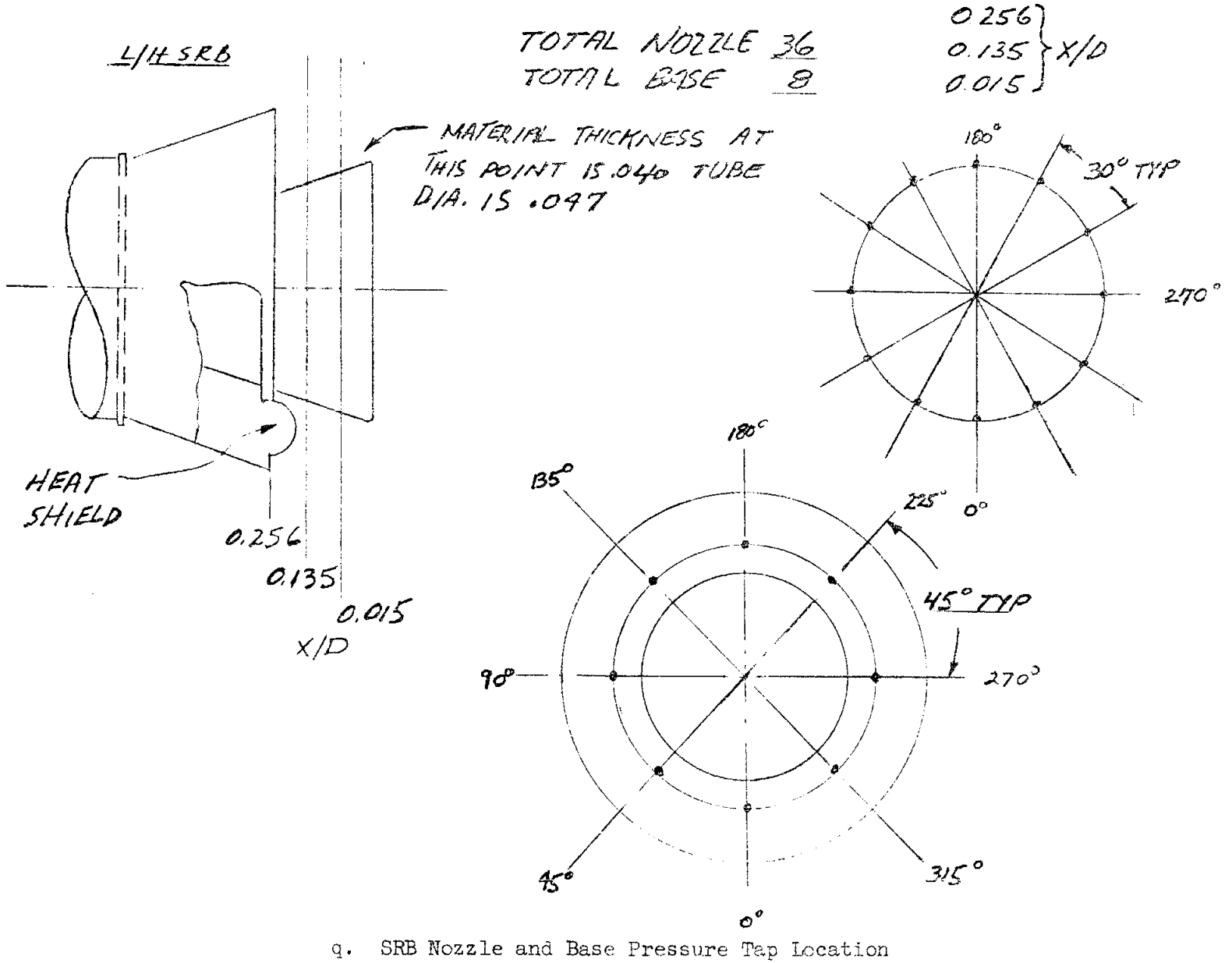
n. Orbiter SSME Nozzle Pressure Instrumentation
Figure 2. Continued.



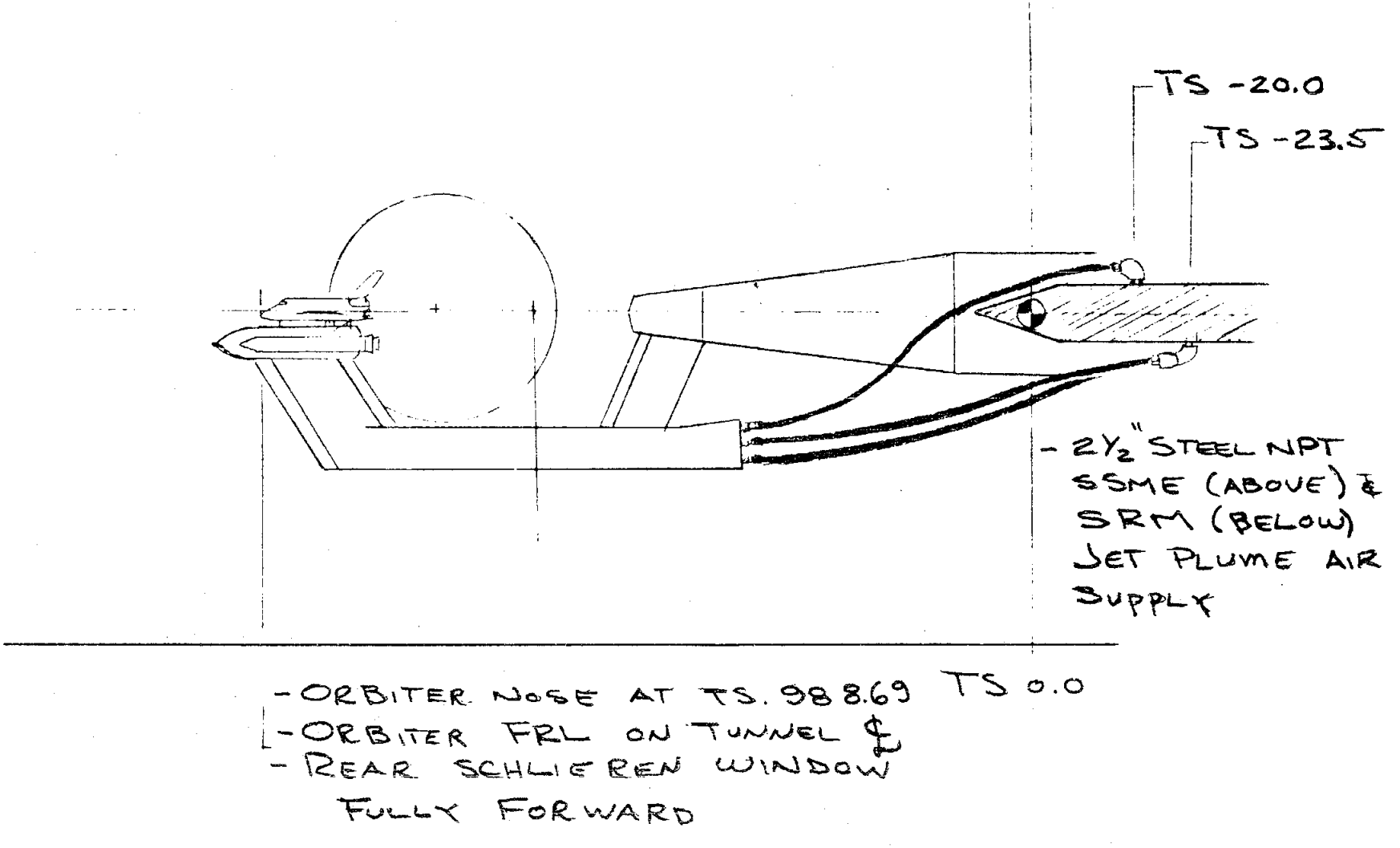
o. External Tank Pressure Tap Location
Figure 2. Continued.



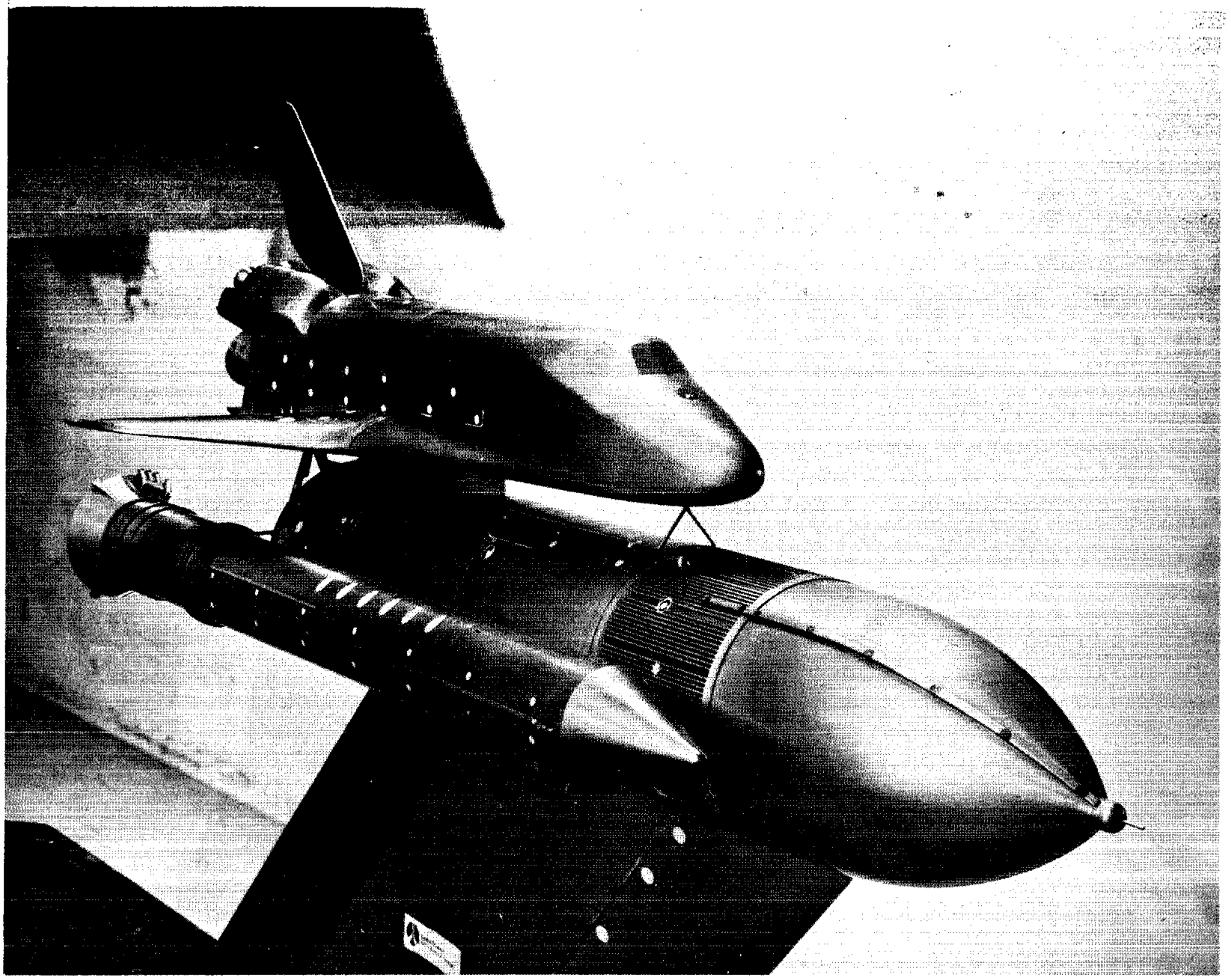
p. SRB Basic Pressure Tap Location
Figure 2. Continued.



q. SRB Nozzle and Base Pressure Tap Location
Figure 2. Continued.

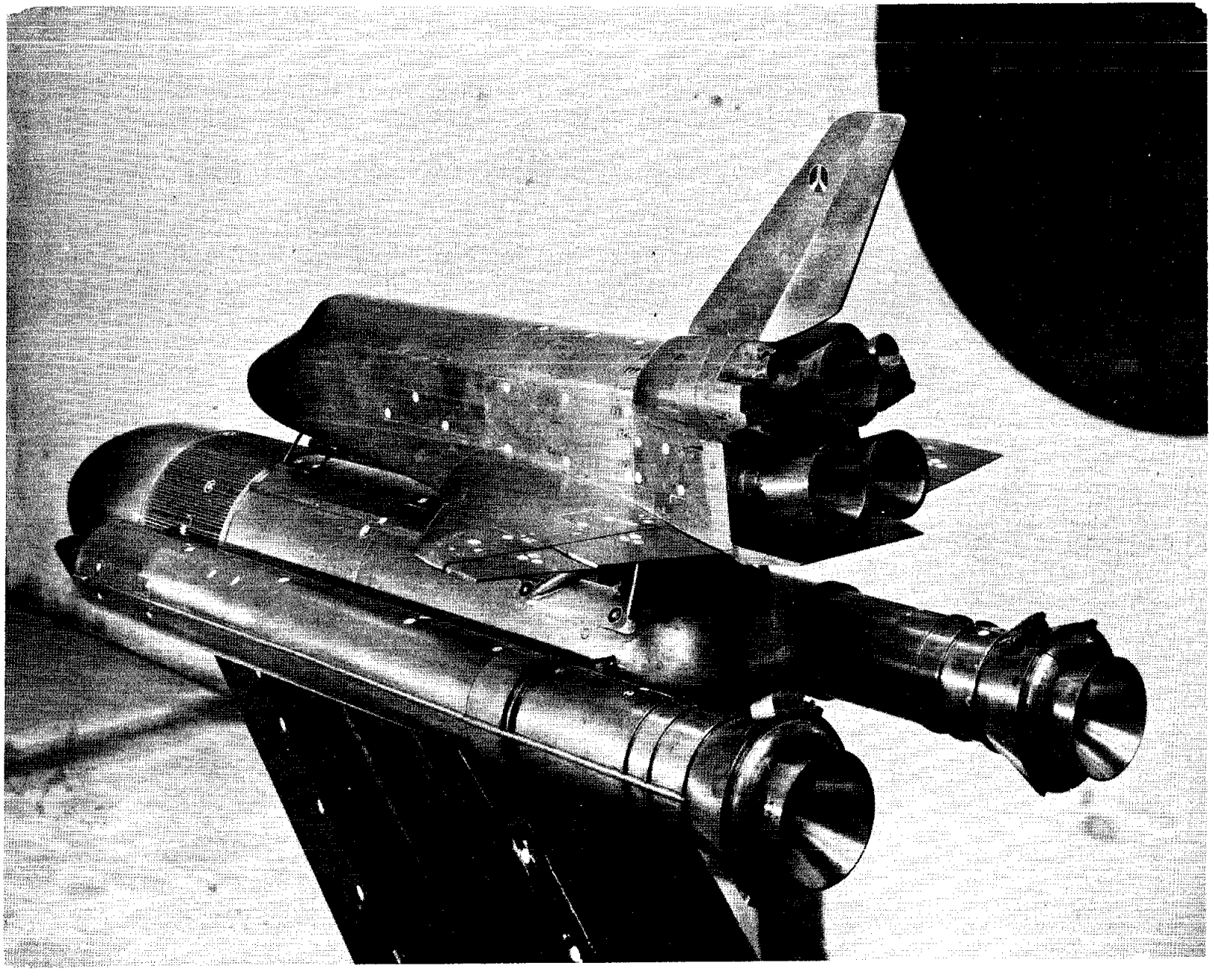


r. Model 75-OTS Installation Ames 9 x 7
Figure 2. Concluded.

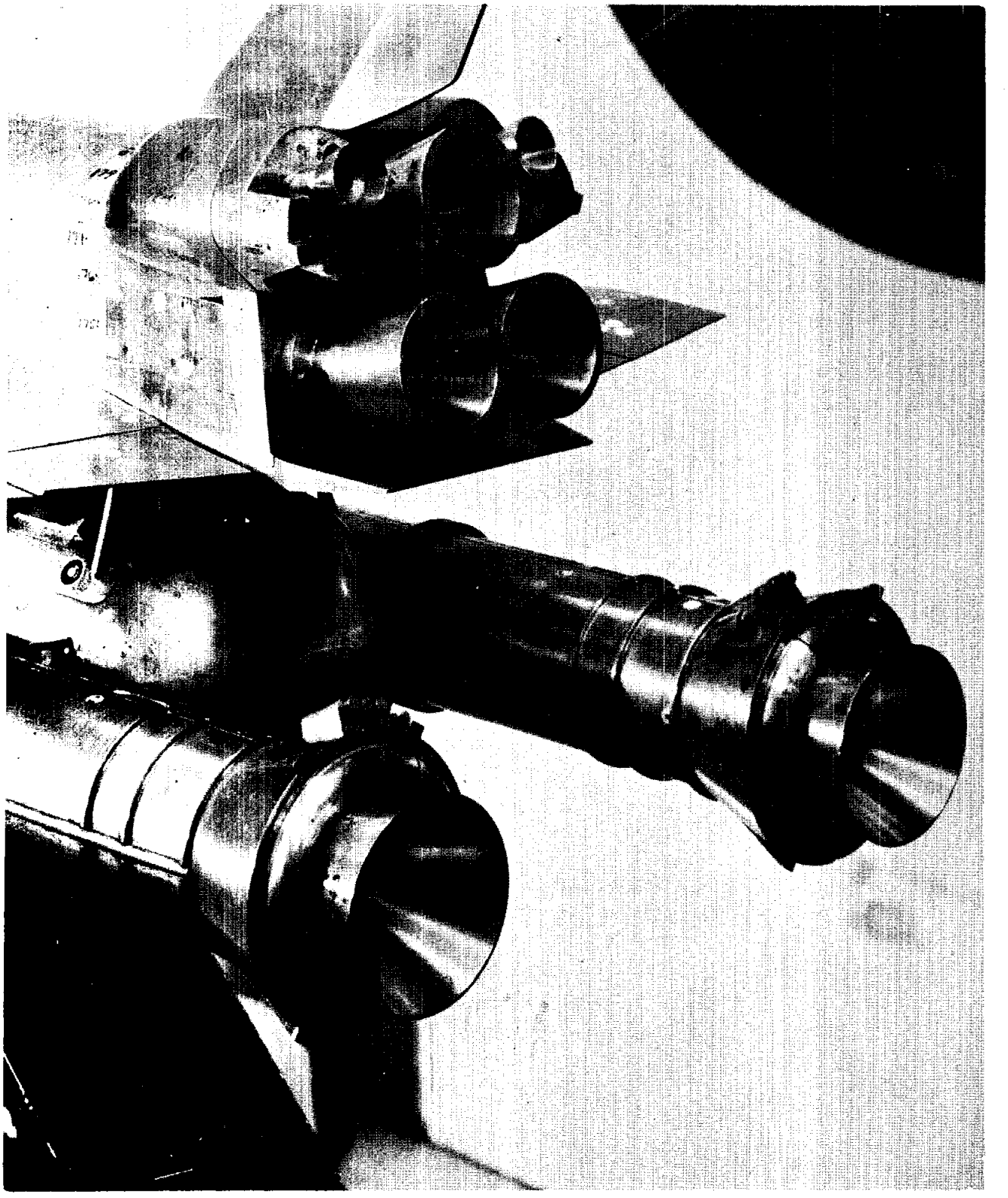


a. Three-quarter front view of model 75-OTS

Figure 3. Installation Photographs of Model in Ames 9x7 Tunnel



b. Three-quarter rear view of Model 75-OTS
Figure 3. Continued



c. Aft view of Model 75-OTS
Figure 3. Concluded

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D061	○	IA139 AMES 246-1-87 OTS POWER ON	.000	.000	10.000	-2.000	245.867
R3D062	□	IA139 AMES 246-1-87 OTS POWER ON	.000	.000	10.000	-2.000	332.194
R3D063	◇	IA138 AMES 246-1-87 OTS POWER ON	.000	.000	10.000	-2.000	431.638
R3D064	4	IA139 AMES 246-1-87 OTS POWER ON	.000	.000	10.000	-2.000	586.823
R3D065	△	IA138 AMES 246-1-87 OTS POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

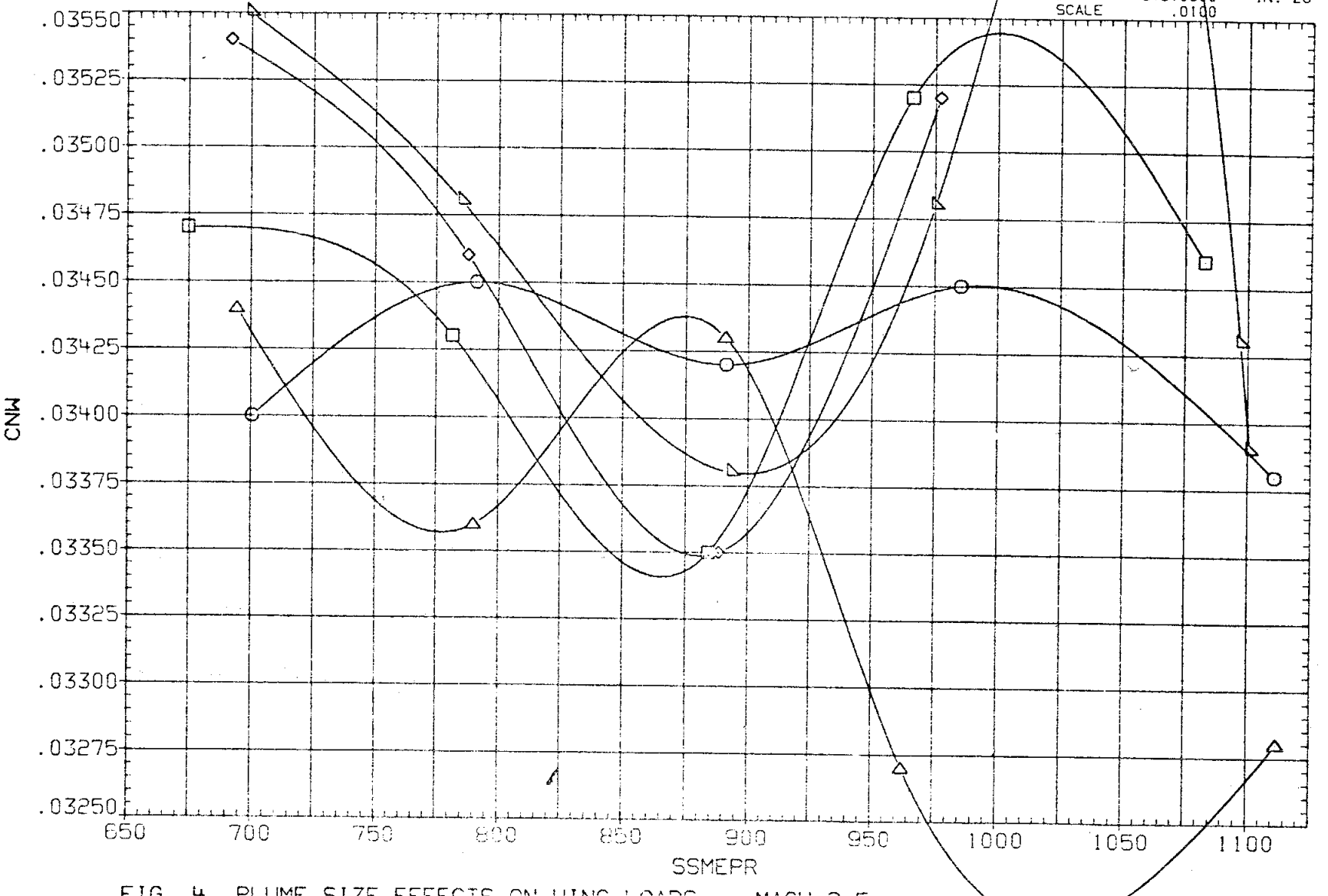


FIG. 4 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.5

(A)MACH = 2.49 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SREPR
R3D061	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	245.861
R3D062	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	338.191
R3D063	◇	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	431.638
R3D064	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	586.823
R3D065	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

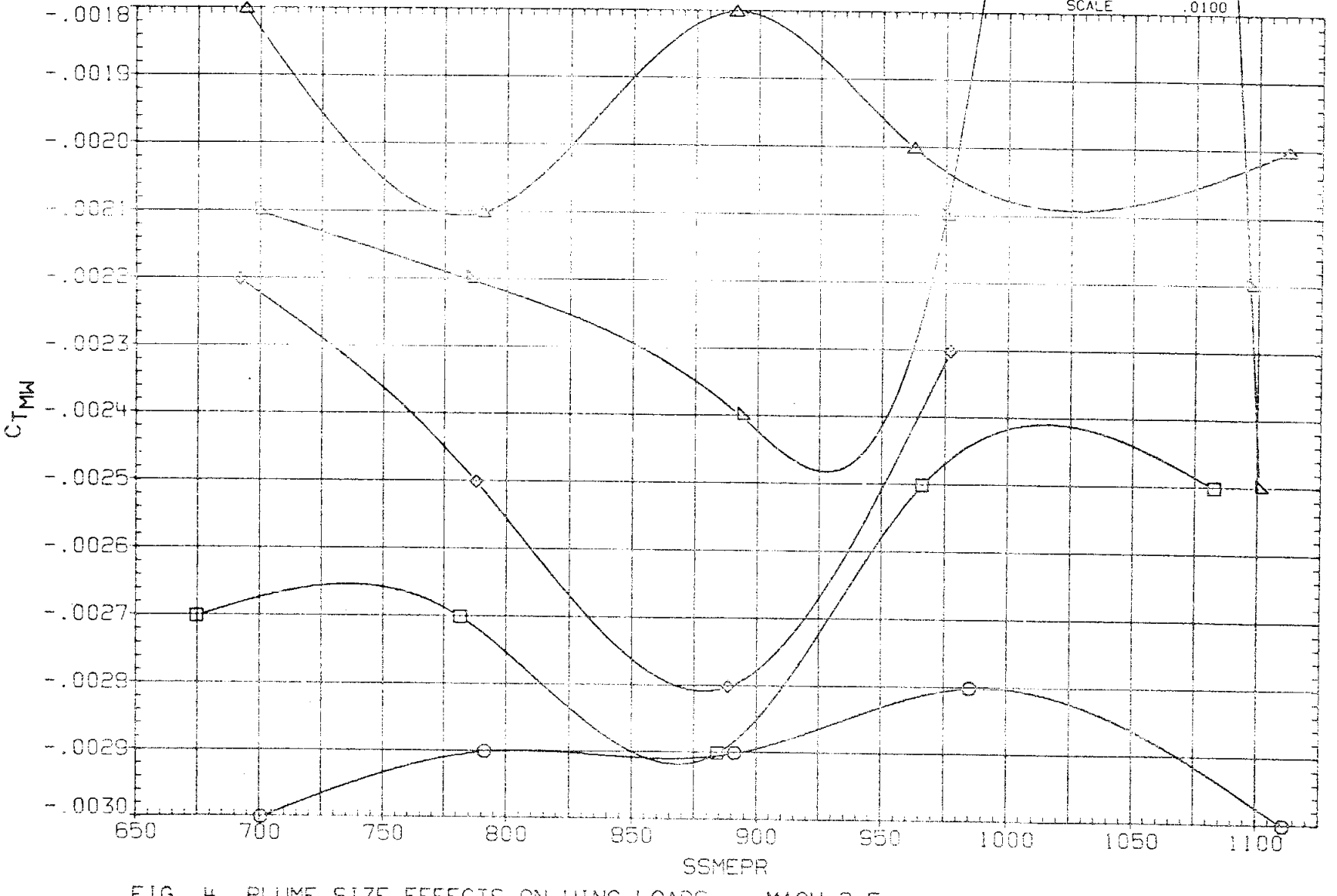


FIG. 4 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.5

(A)MACH = 2.49

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D061	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.861
R3D062	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	332.191
R3D063	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	431.638
R3D064	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	586.923
R3D065	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

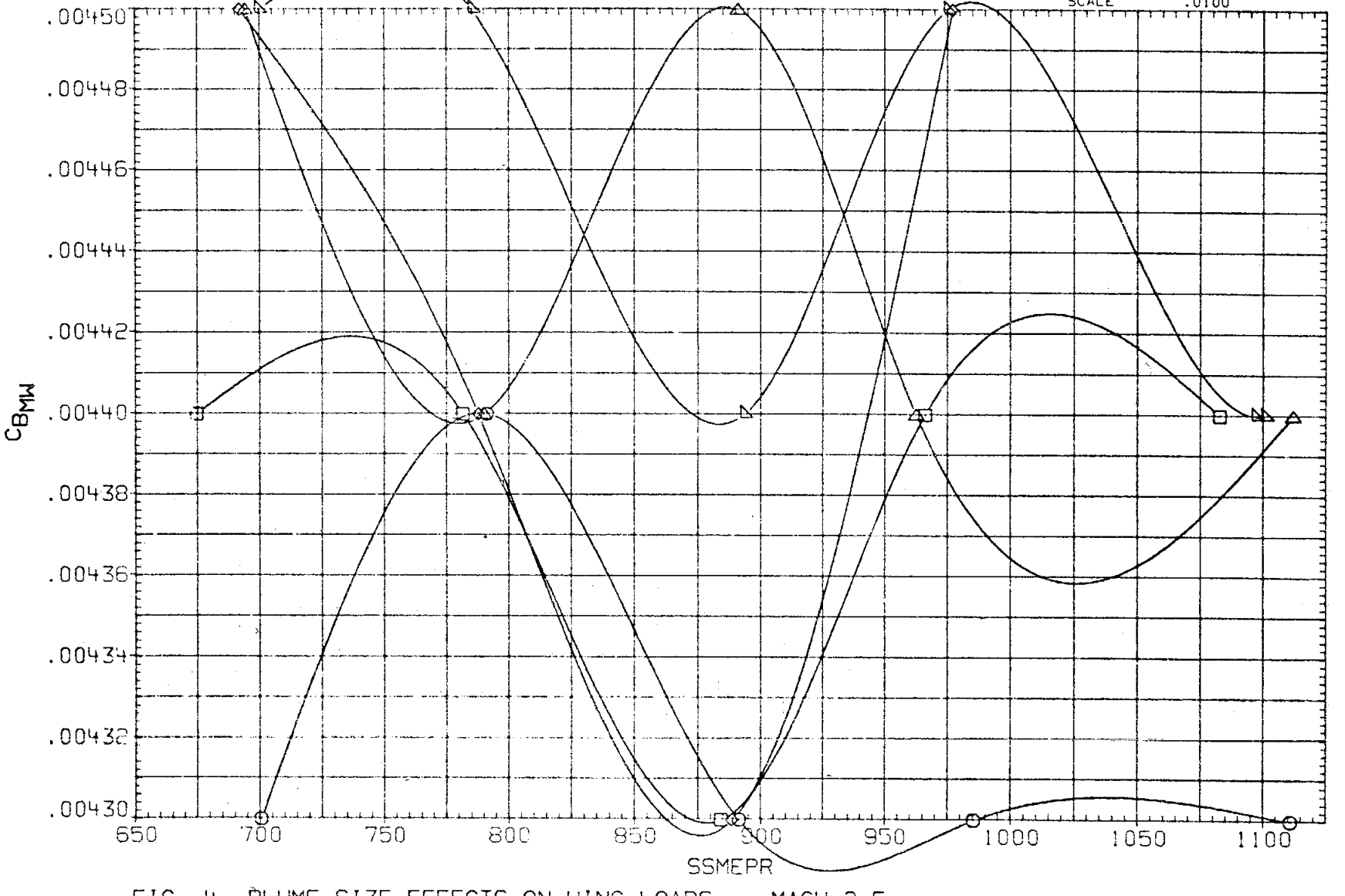


FIG. 4 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.5

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	◺	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6900	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

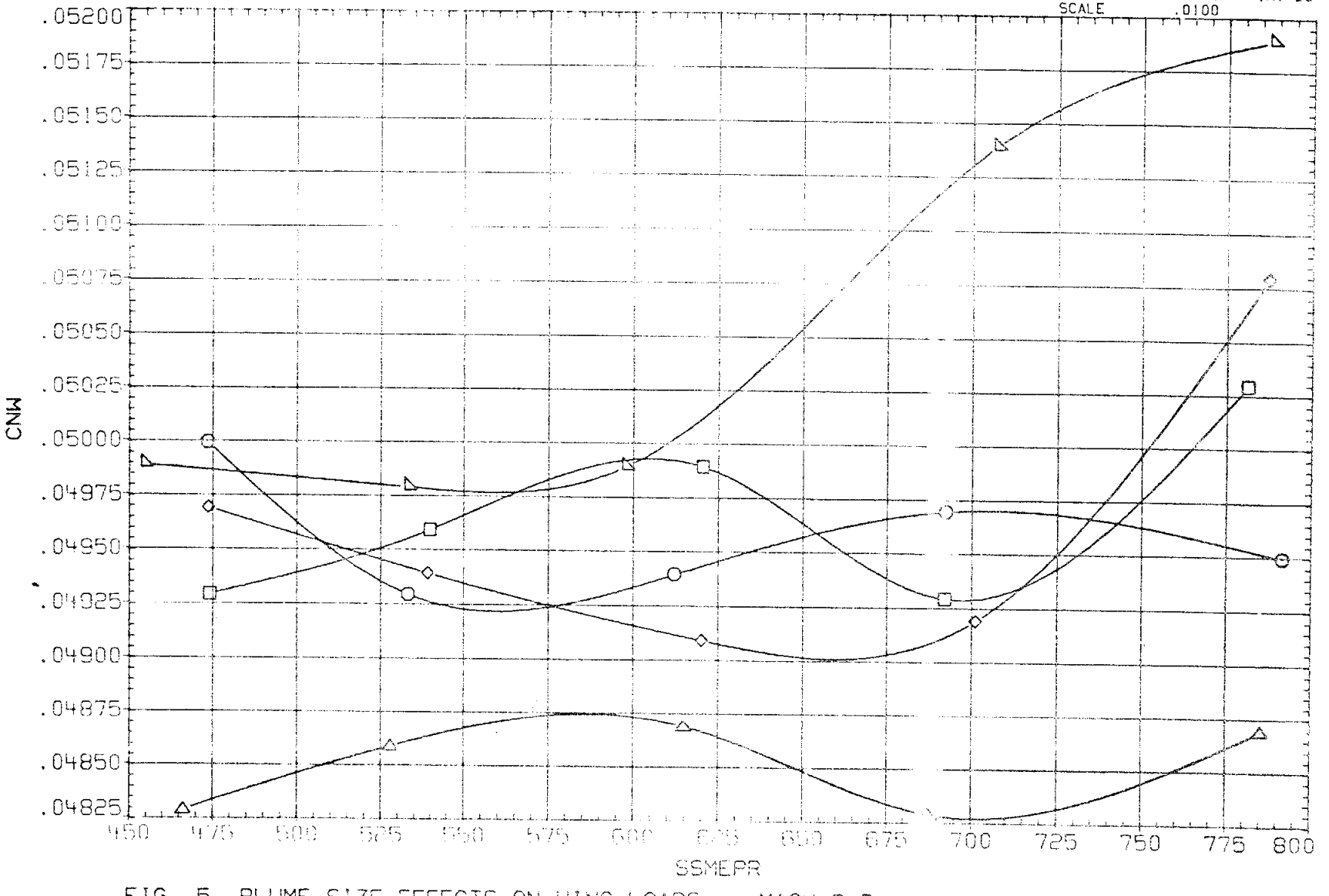


FIG. 5 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.2

(A)MACH = 2.20

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SREF
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	462.548
R3D070	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

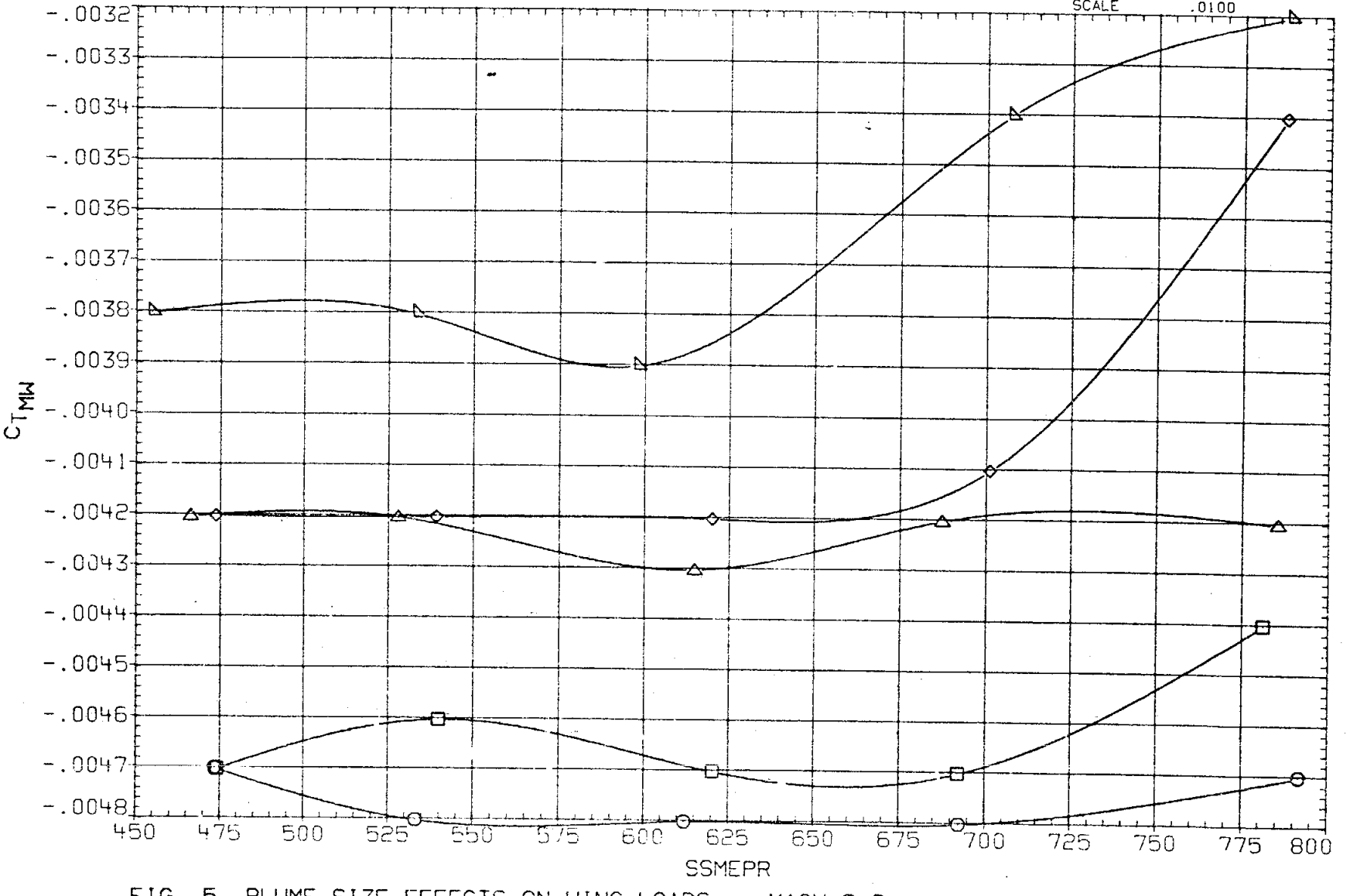


FIG. 5 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.2

(A)MACH = 2.20 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	▷	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

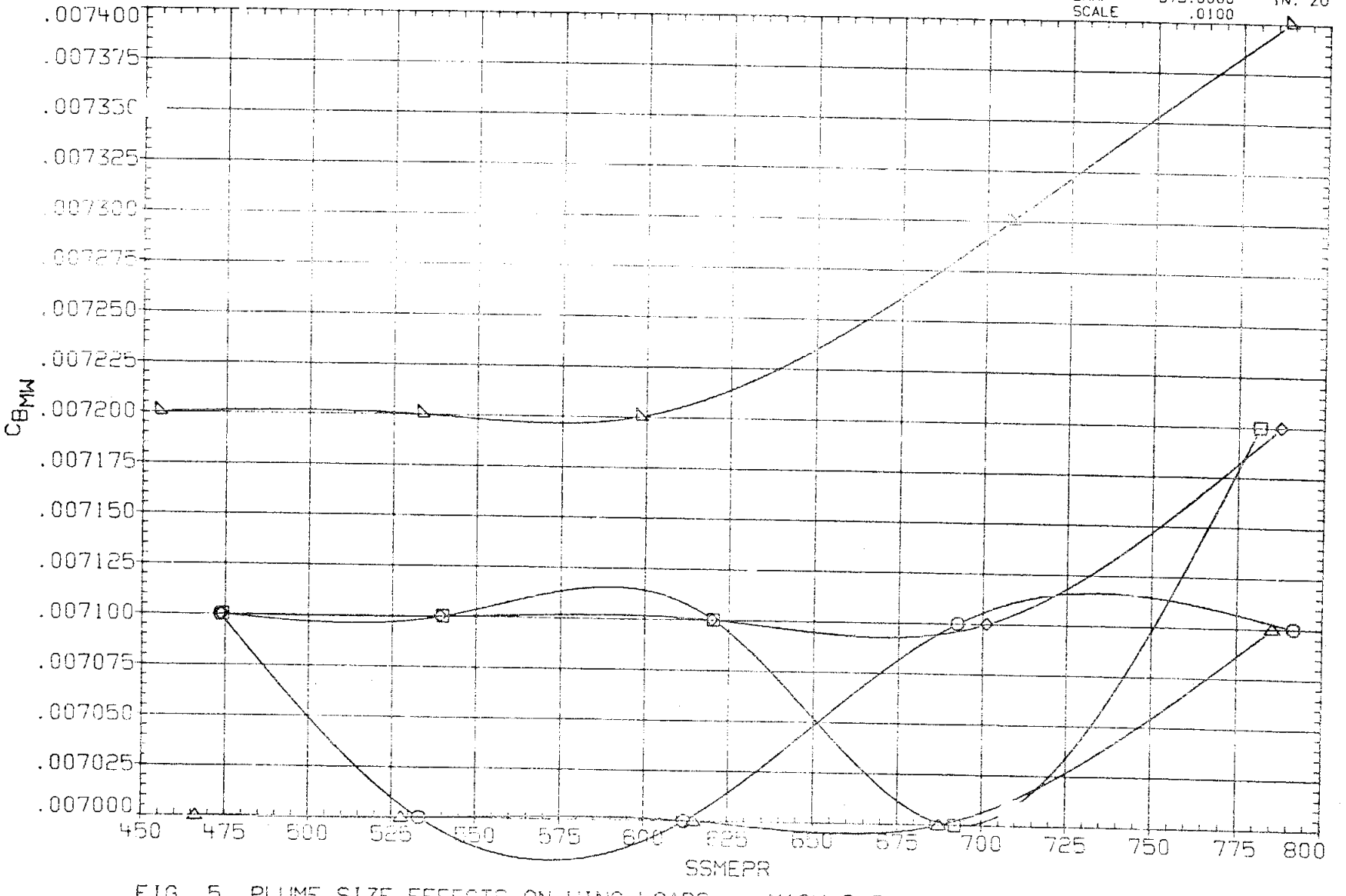


FIG. 5 PLUME SIZE EFFECTS ON WING LOADS: MACH=2.2

(A)MACH = 2.20 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	113.218
R3D072	□	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	155.726
R3D073	◇	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	268.756
R3D075	▽	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

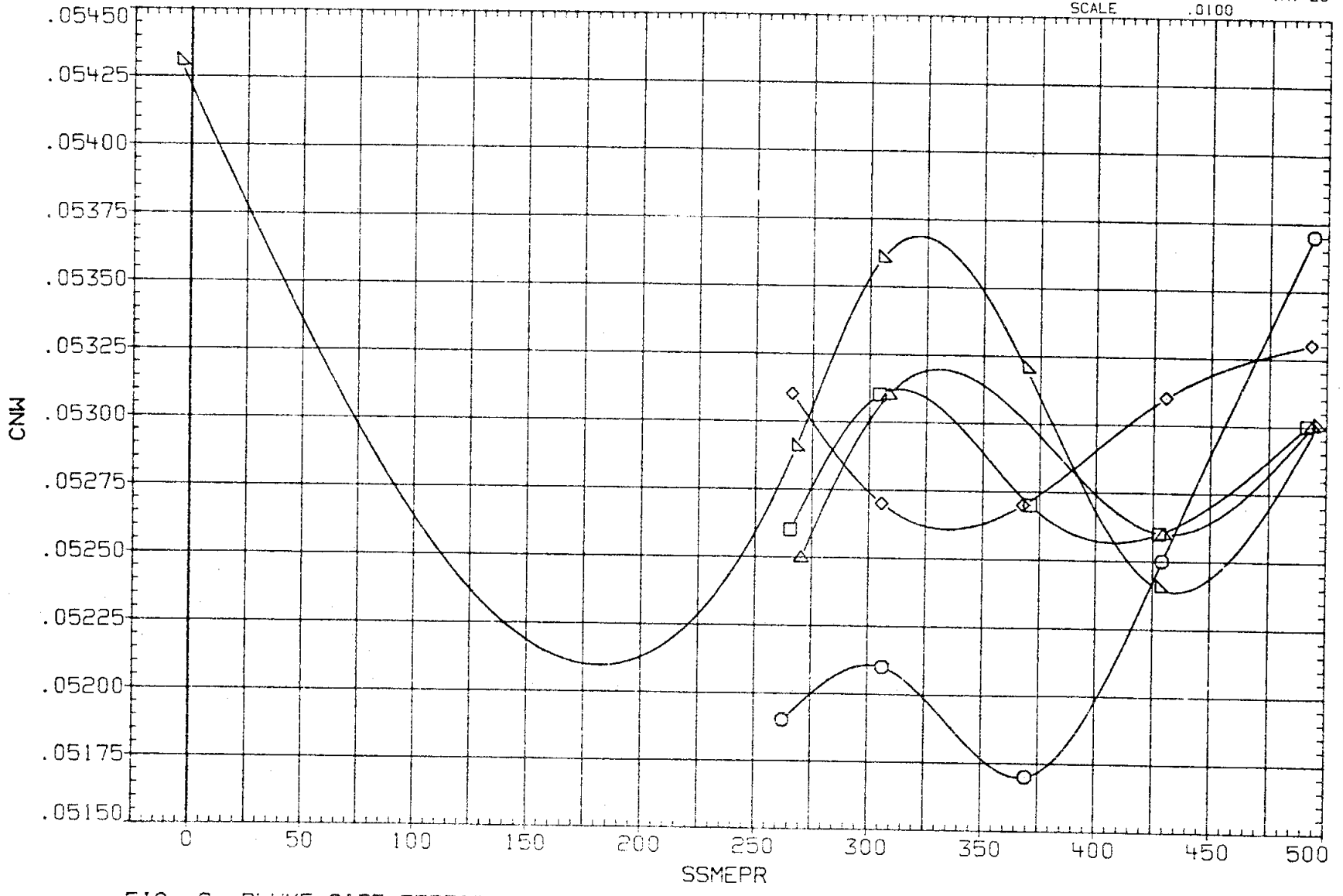


FIG. 6 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.8

(A)MACH = 1.80

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	156.726
R3D073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	268.756
R3D075	◺	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

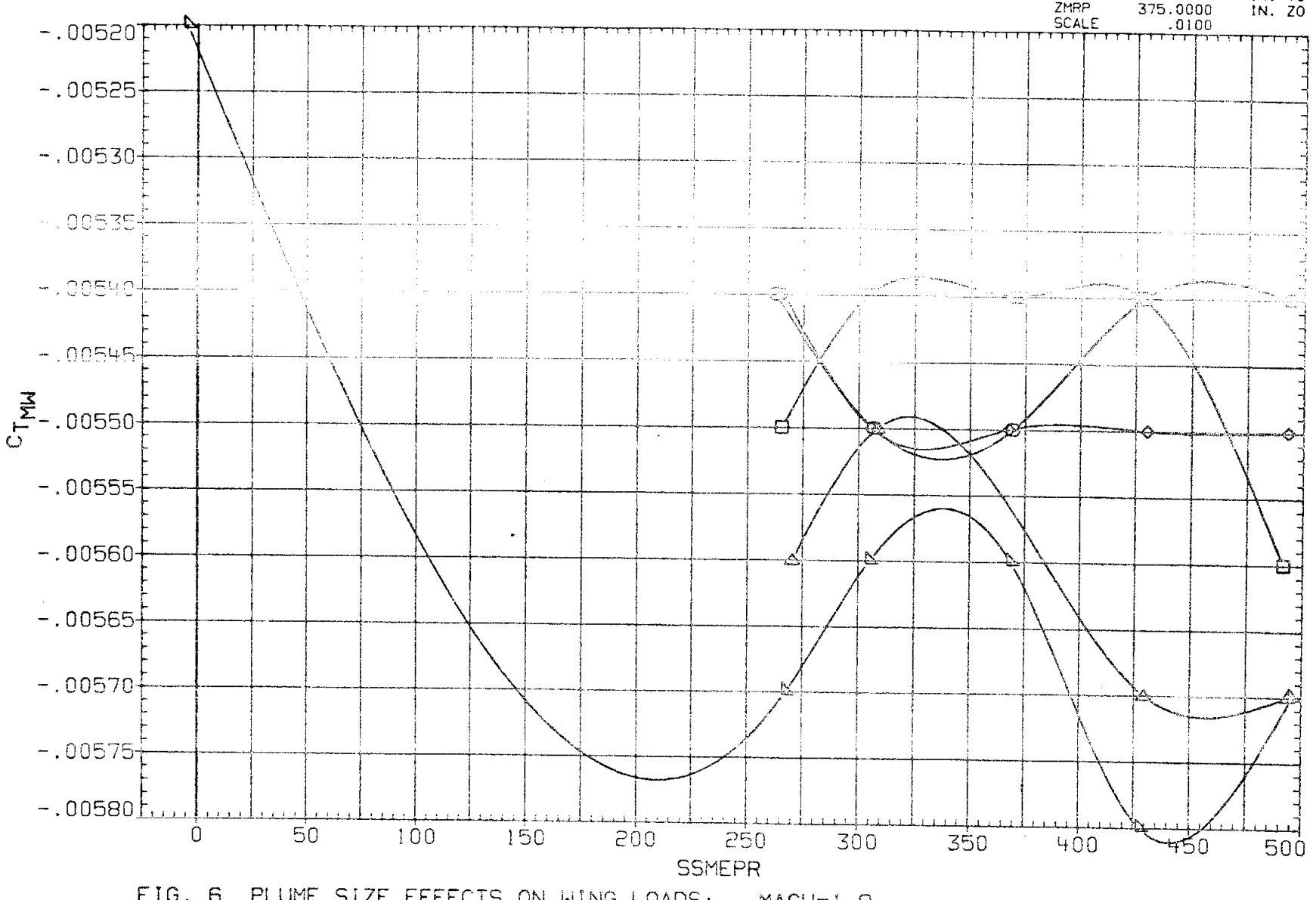


FIG. 6 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.8

(A)MACH = 1.80

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	156.726
R3D073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	258.756
R3D075	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

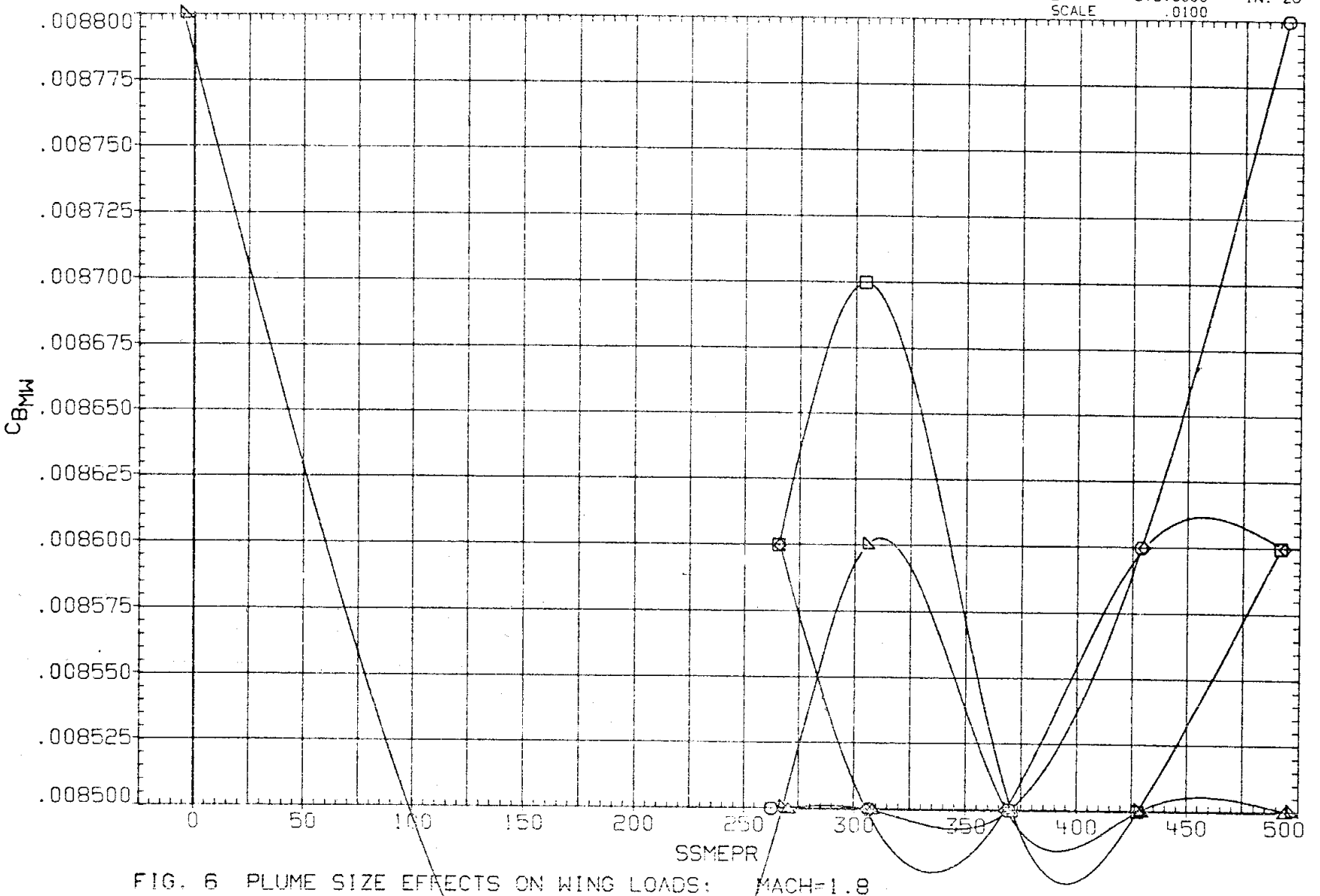


FIG. 6 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.8

(A)MACH = 1.80 DATE 17 OCT 78

ATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	153.981
R3D079	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	197.234
R3D080	◁	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

FIG. 7 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.55

(A)MACH = 1.55 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D0076	○	IA138 AMES 240-1-97 OTS POWER ON	.000	.000	10.000	-2.000	81.454
R3D0077	□	IA138 AMES 240-1-97 OTS POWER ON	.000	.000	10.000	-2.000	120.674
R3D0078	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	153.961
R3D0079	△	IA139 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	197.234
R3D0080	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2600.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

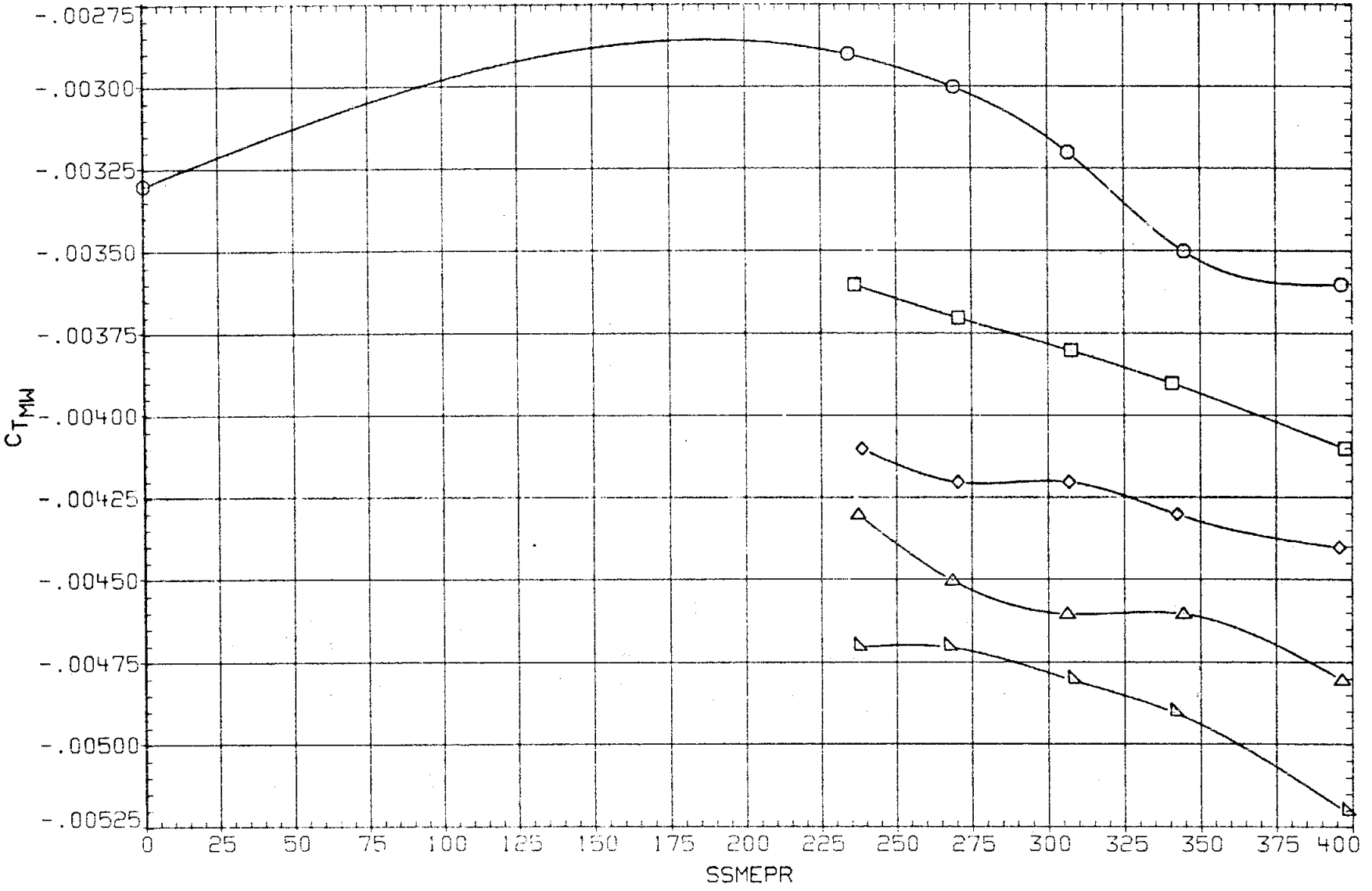


FIG. 7 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.55

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R30076	○	IA138 AMES 245-1-97 OTS POWER ON	.000	.000	10.000	-2.000	81.454
R30077	□	IA138 AMES 245-1-97 OTS POWER ON	.000	.000	10.000	-2.000	120.674
R30078	◇	IA139 AMES 245-1-97 OTS POWER ON	.000	.000	10.000	-2.000	153.981
R30079	△	IA138 AMES 245-1-97 OTS POWER ON	.000	.000	10.000	-2.000	197.234
R30080	▽	IA138 AMES 245-1-97 OTS POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

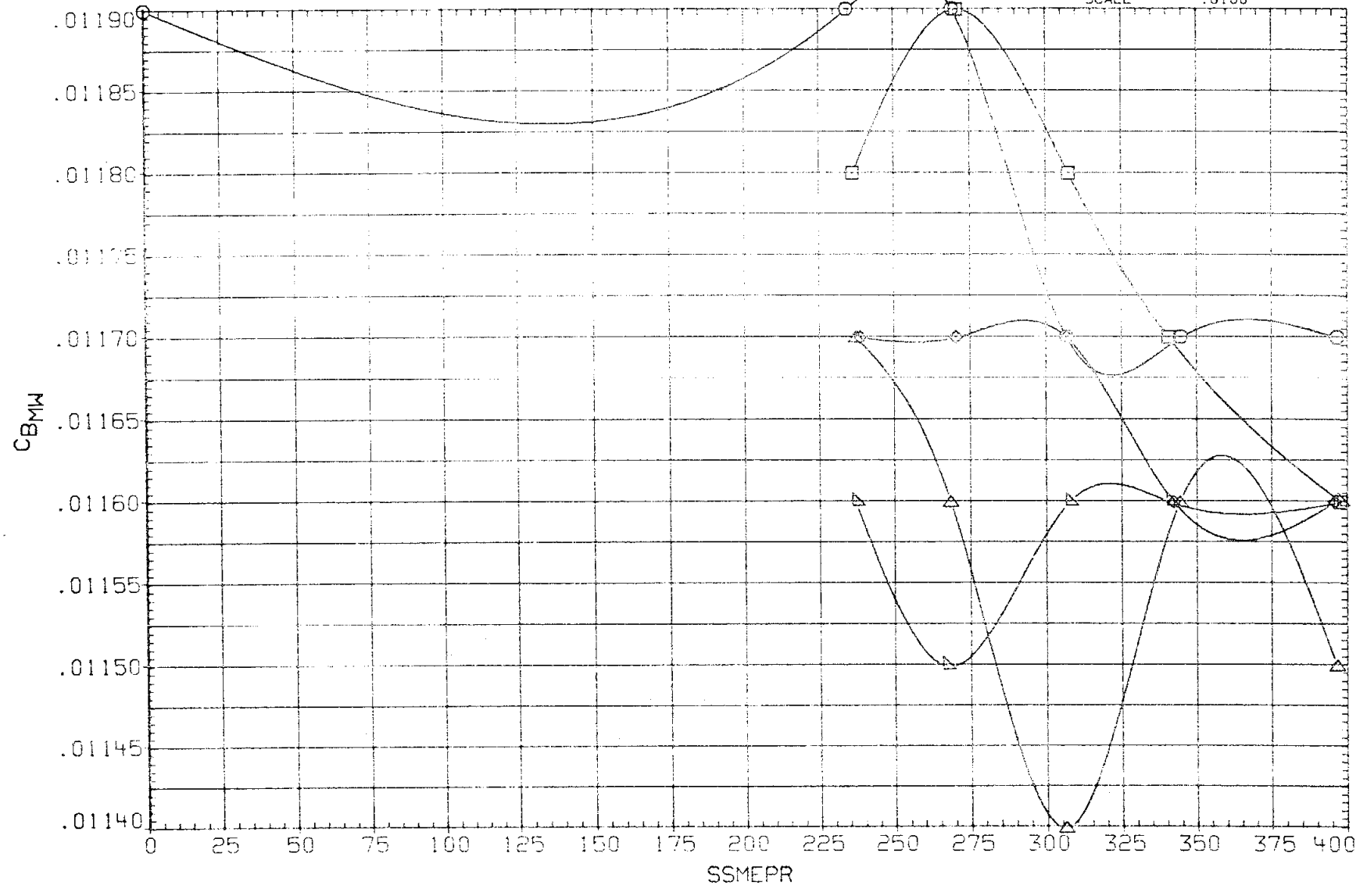


FIG. 7 PLUME SIZE EFFECTS ON WING LOADS: MACH=1.55

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D061	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.861
R3D062	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	332.191
R3D063	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	431.638
R3D064	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	586.823
R3D065	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

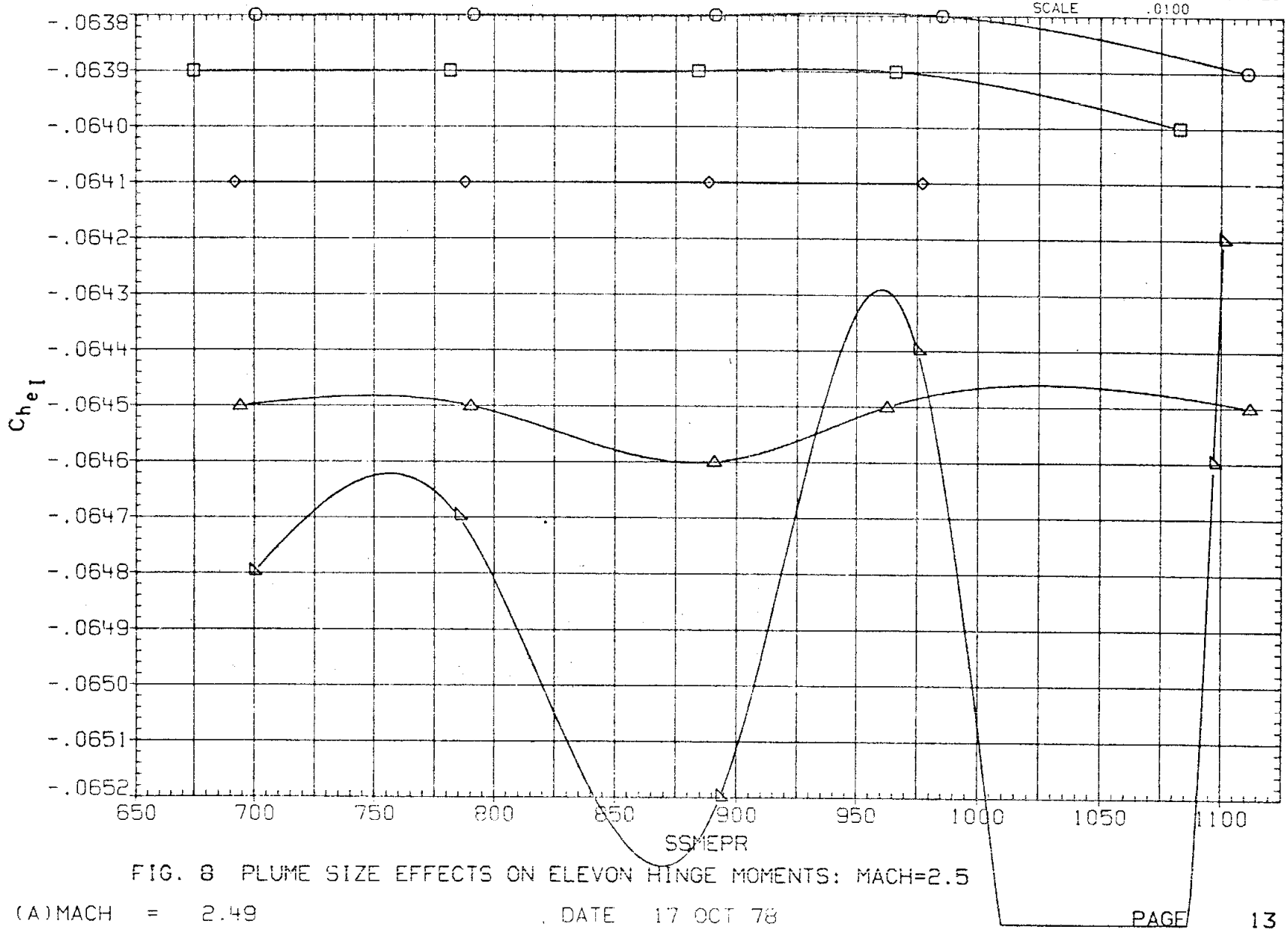


FIG. 8 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=2.5

(A)MACH = 2.49 , DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D061	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	245.861
R3D062	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	332.191
R3D063	◇	IA139 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	431.639
R3D064	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	586.823
R3D065	◁	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

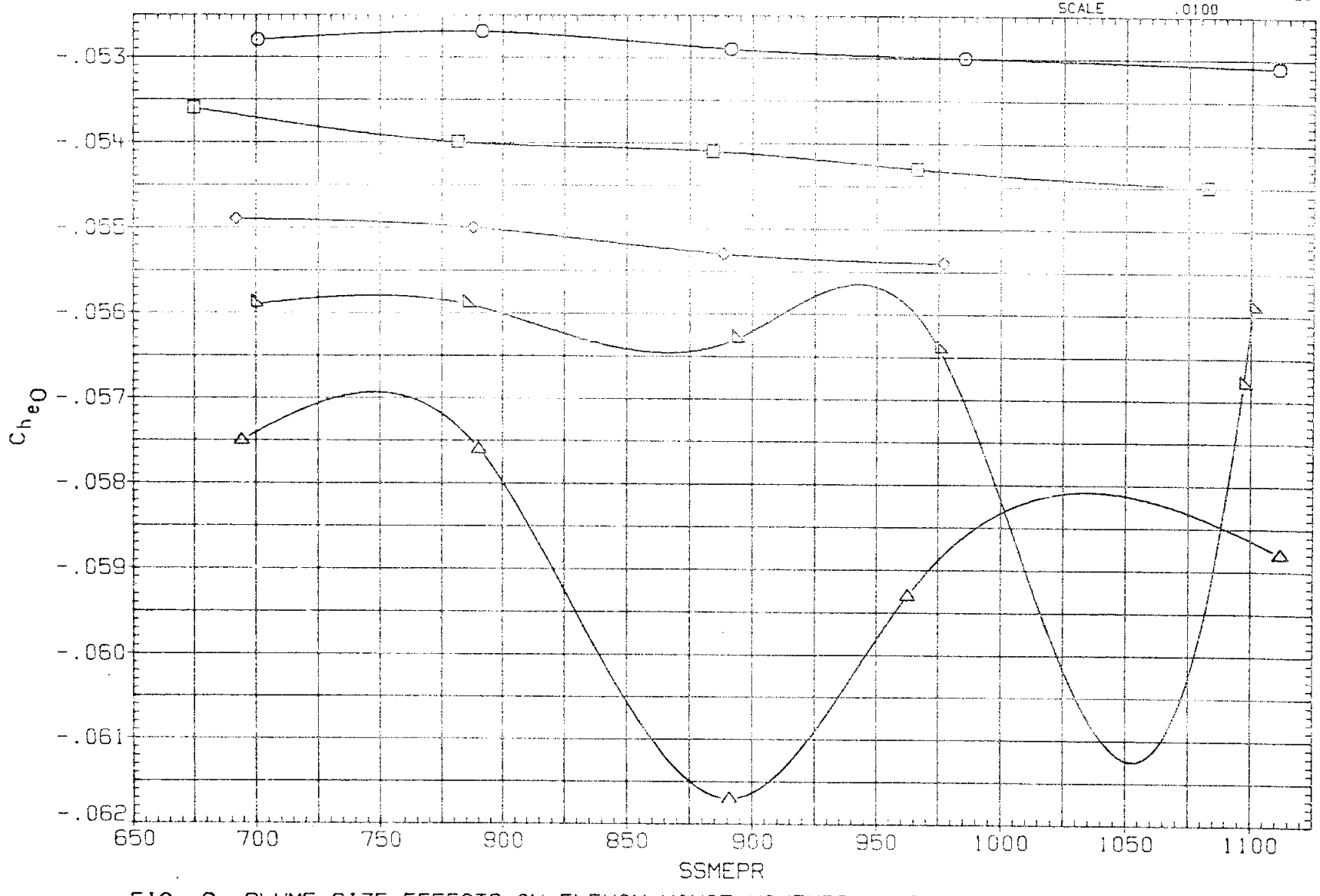


FIG. 8 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=2.5

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	◺	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

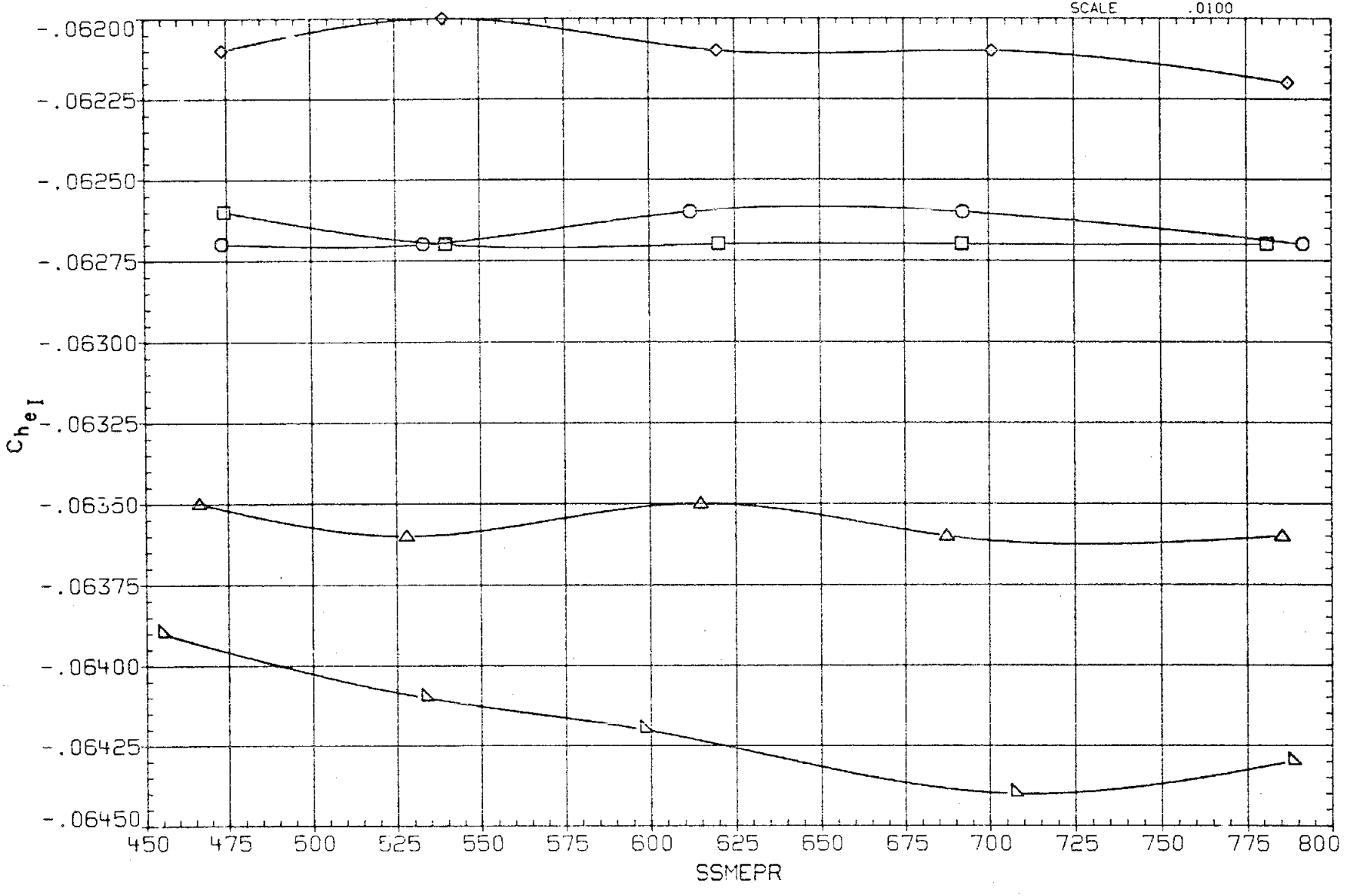


FIG. 9 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=2.2

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

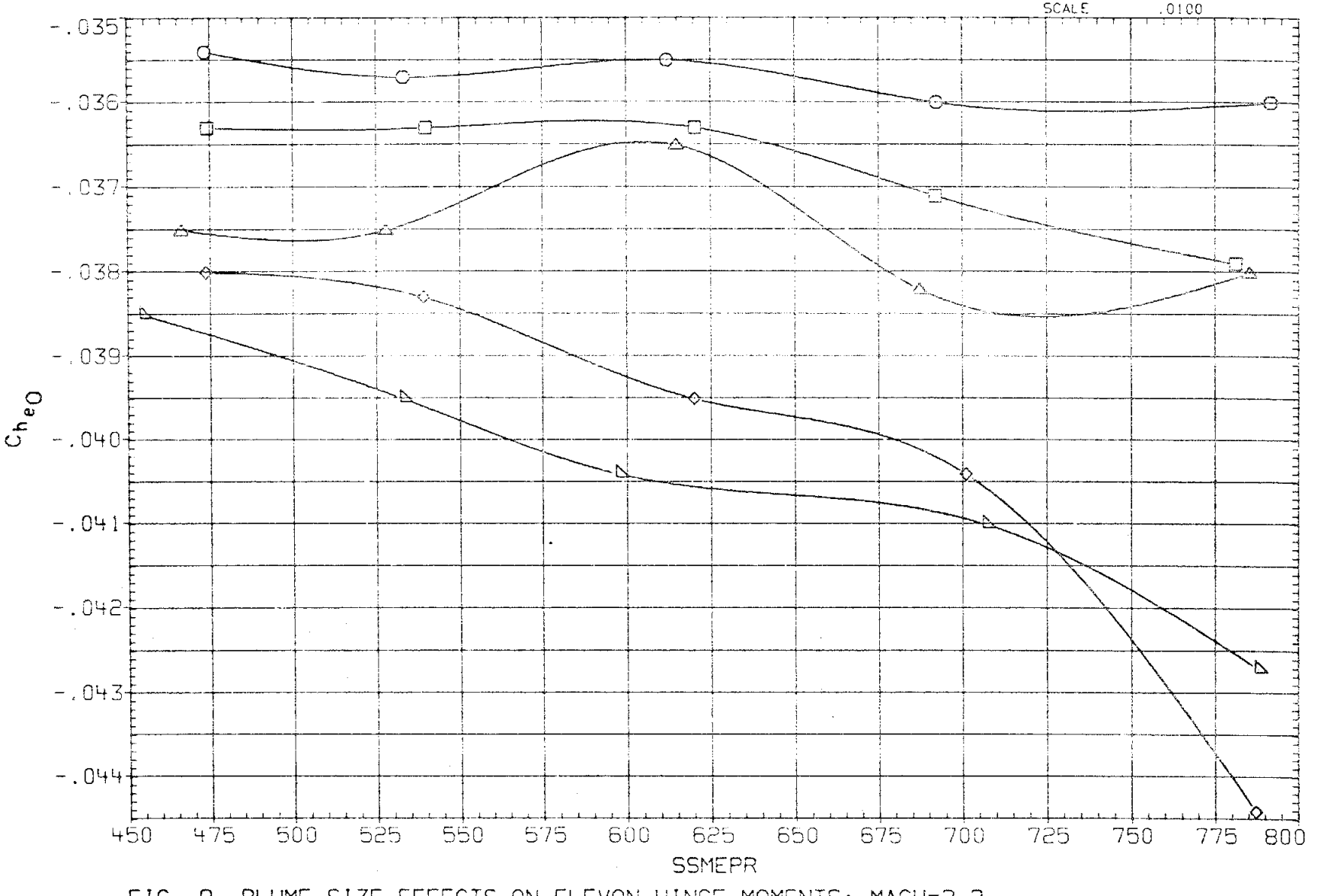


FIG. 9 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=2.2

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	156.726
R3D073	◇	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	268.756
R3D075	◺	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

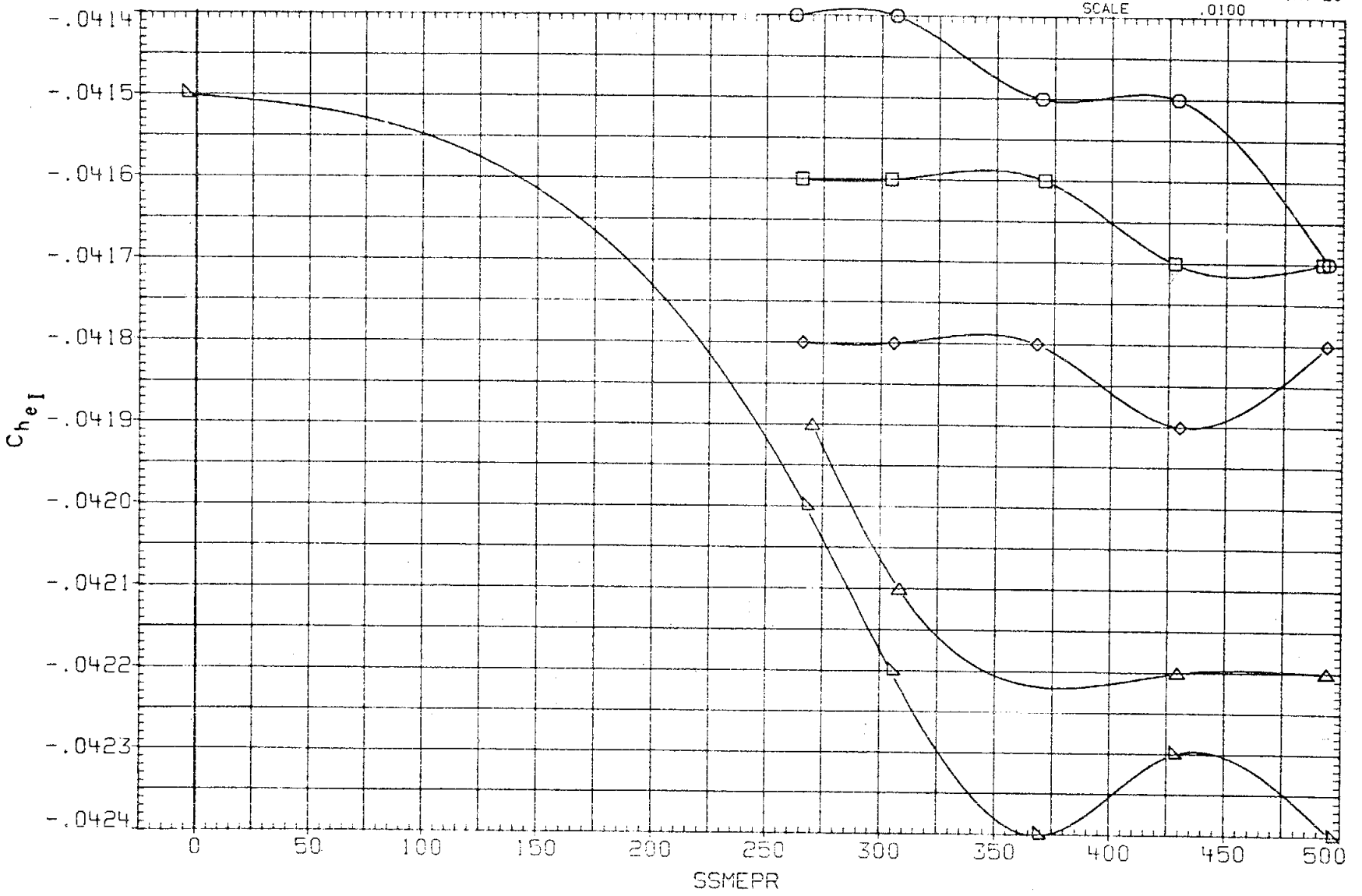


FIG. 10 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=1.8

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D0071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D0072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	156.726
R3D0073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	220.561
R3D0074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	268.756
R3D0075	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

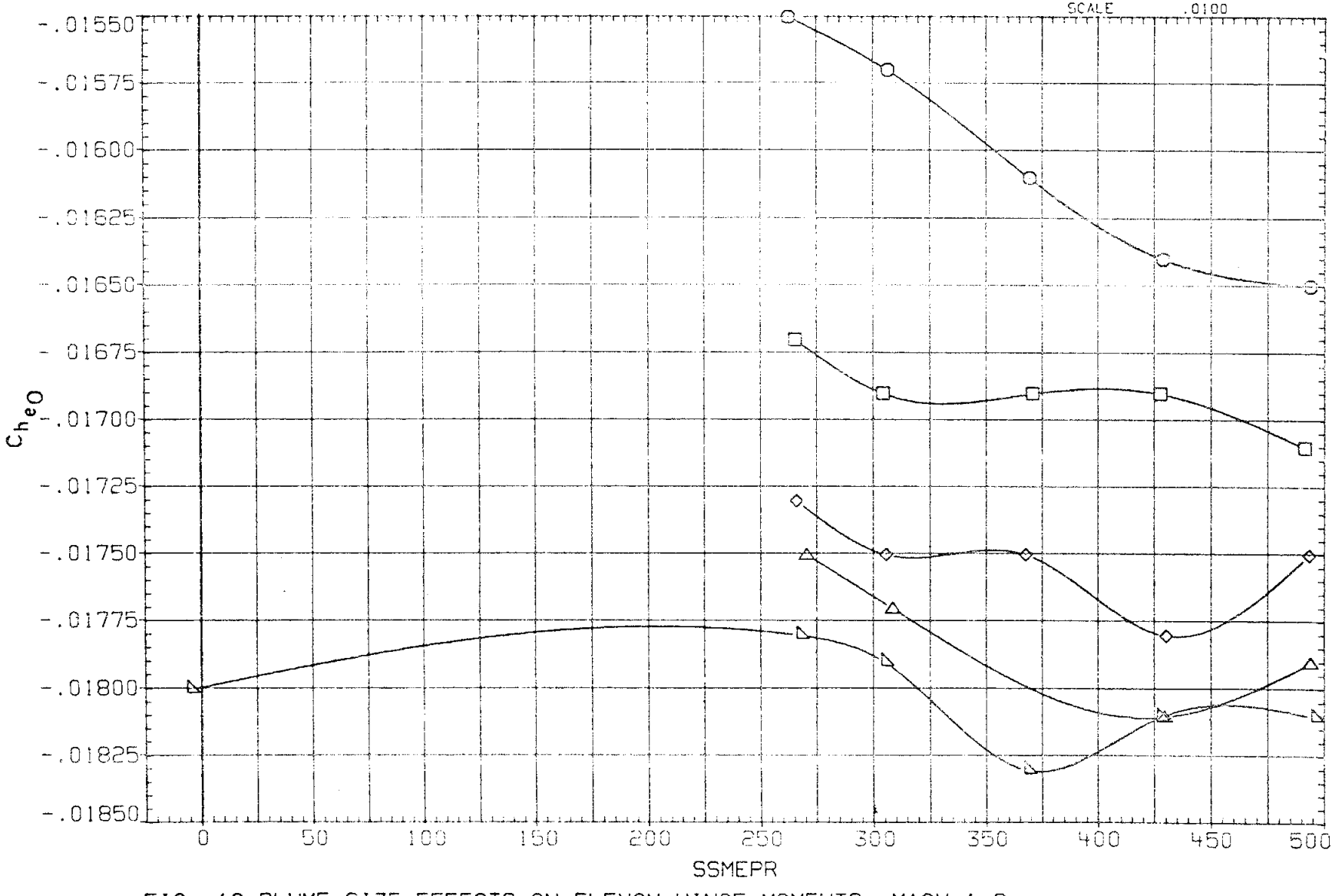


FIG. 10 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=1.8

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	153.981
R3D079	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	197.234
R3D080	◺	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

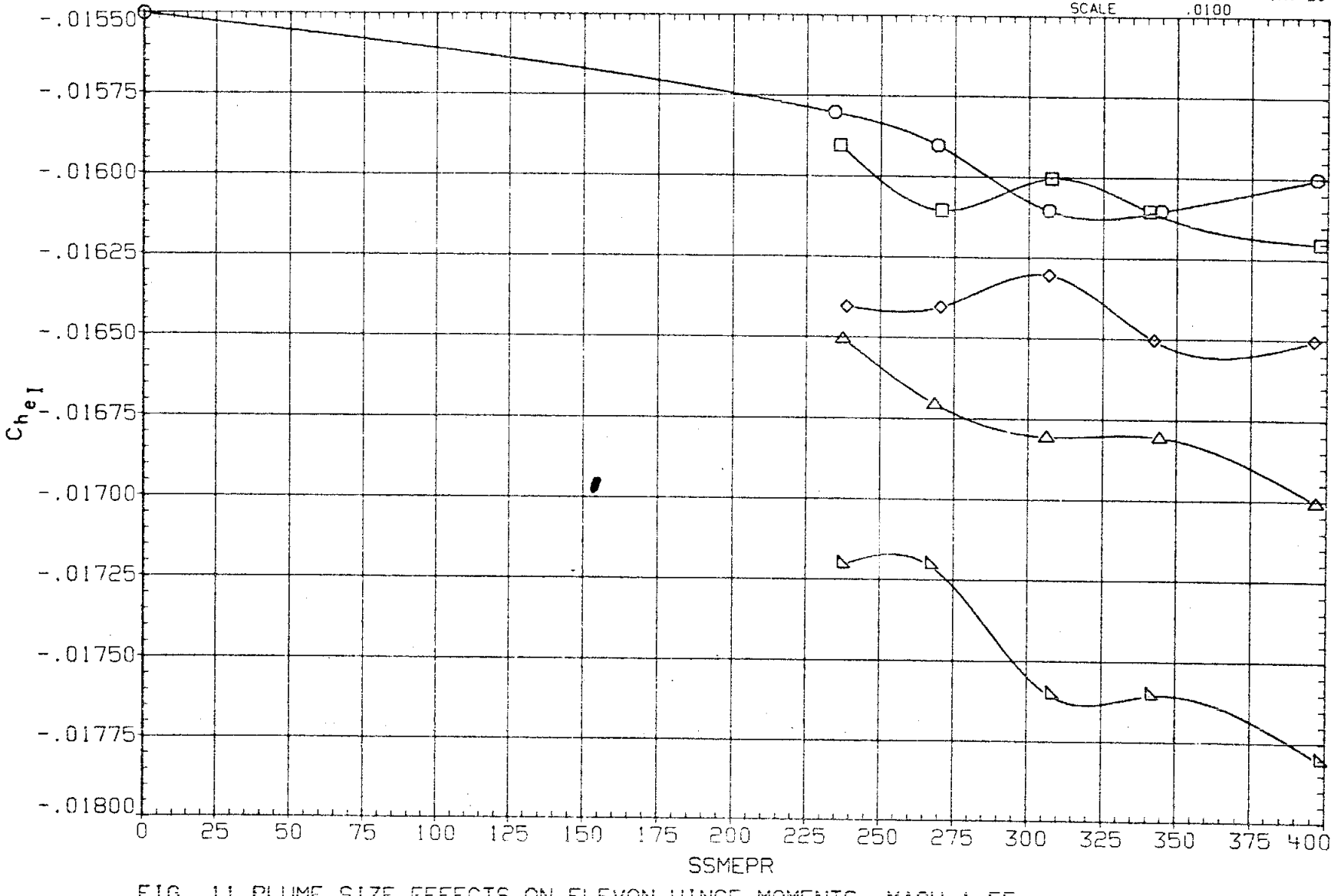


FIG. 11 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=1.55

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	153.981
R3D079	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	197.234
R3D080	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

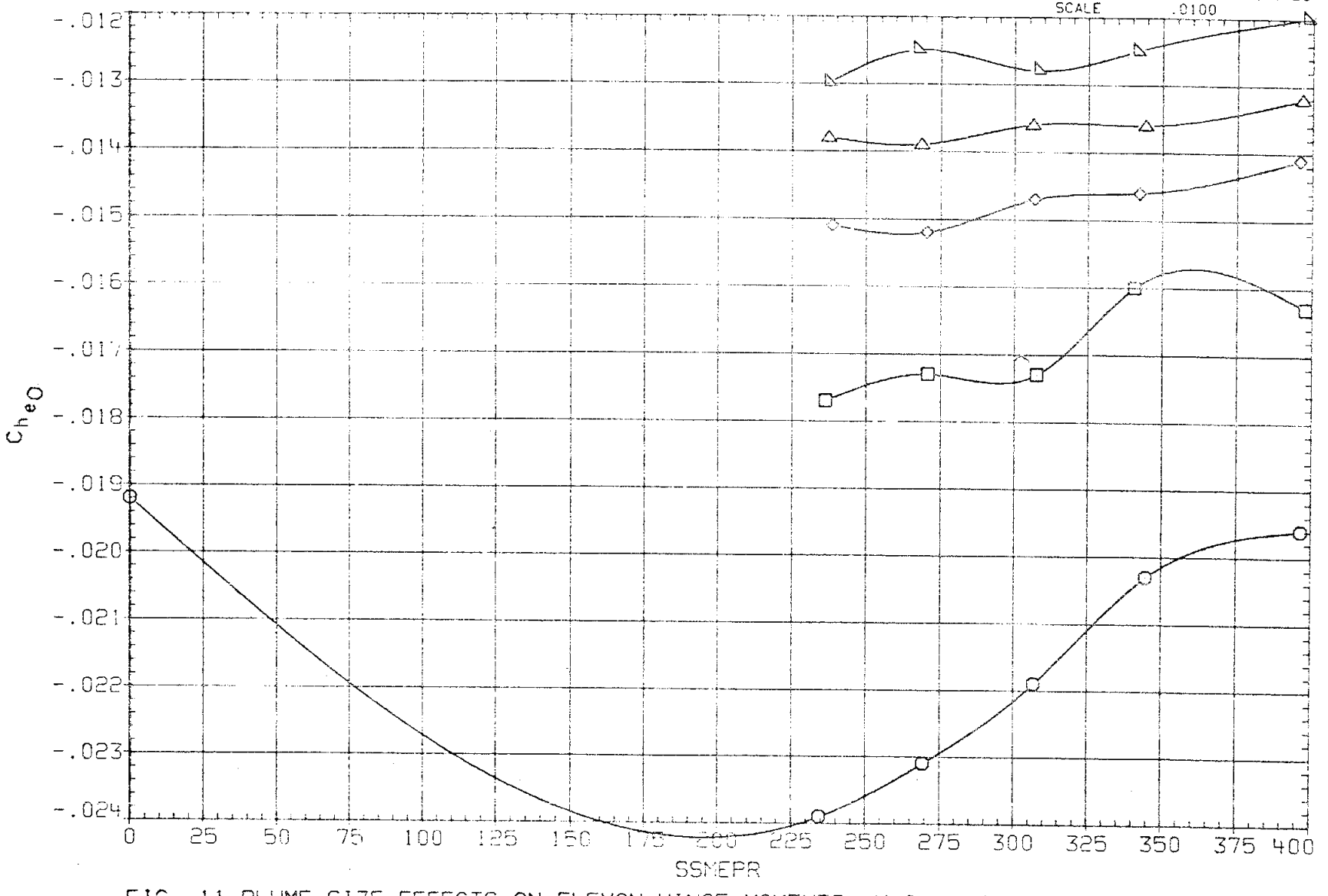


FIG. 11 PLUME SIZE EFFECTS ON ELEVON HINGE MOMENTS: MACH=1.55

(A)MACH = 1.55 DATE 17 OCT 78 PAGE 20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D061	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.861
R3D062	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	332.191
R3D063	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	431.638
R3D064	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	586.823
R3D065	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	787.210

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

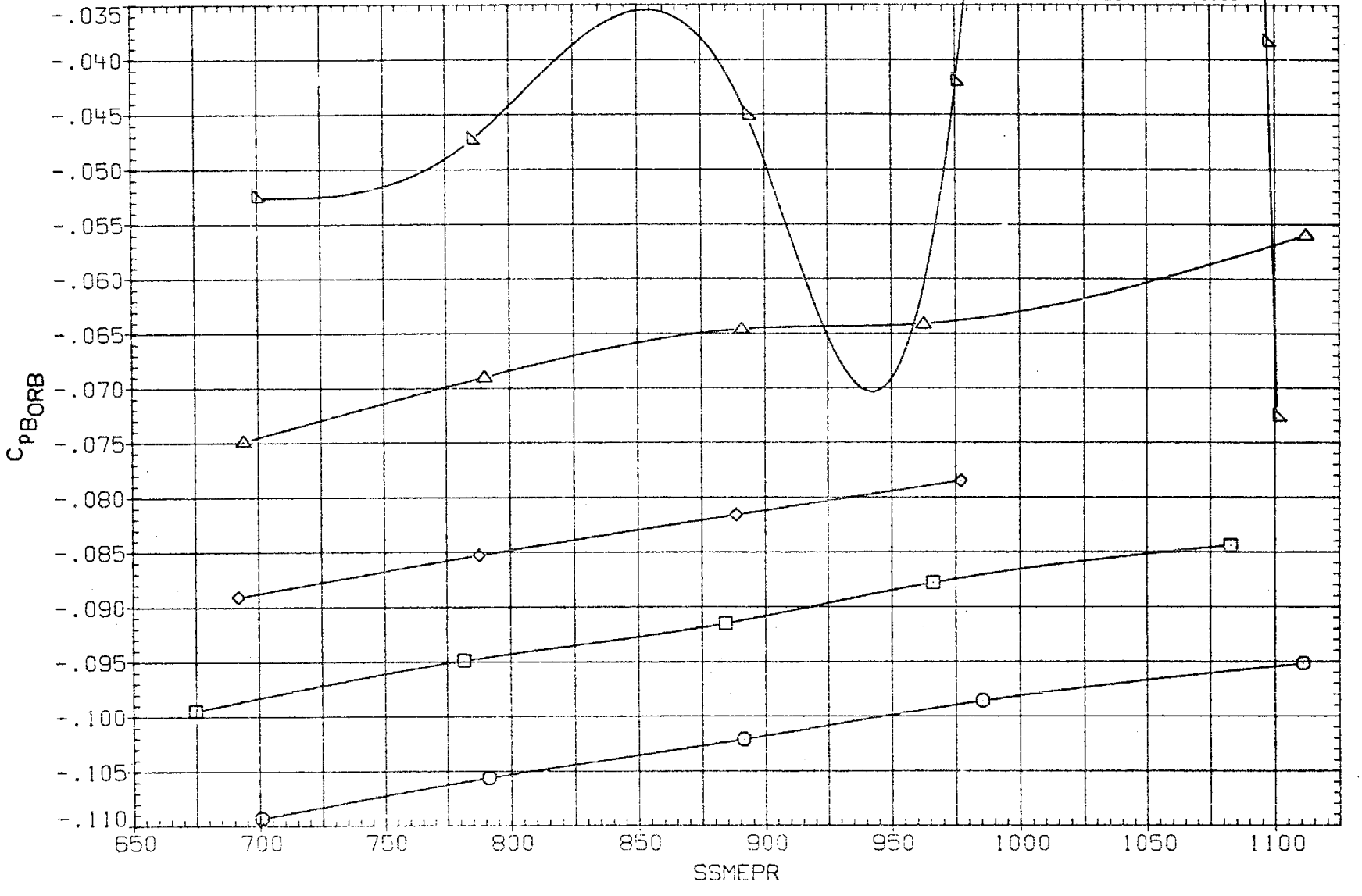


FIG. 12 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.5

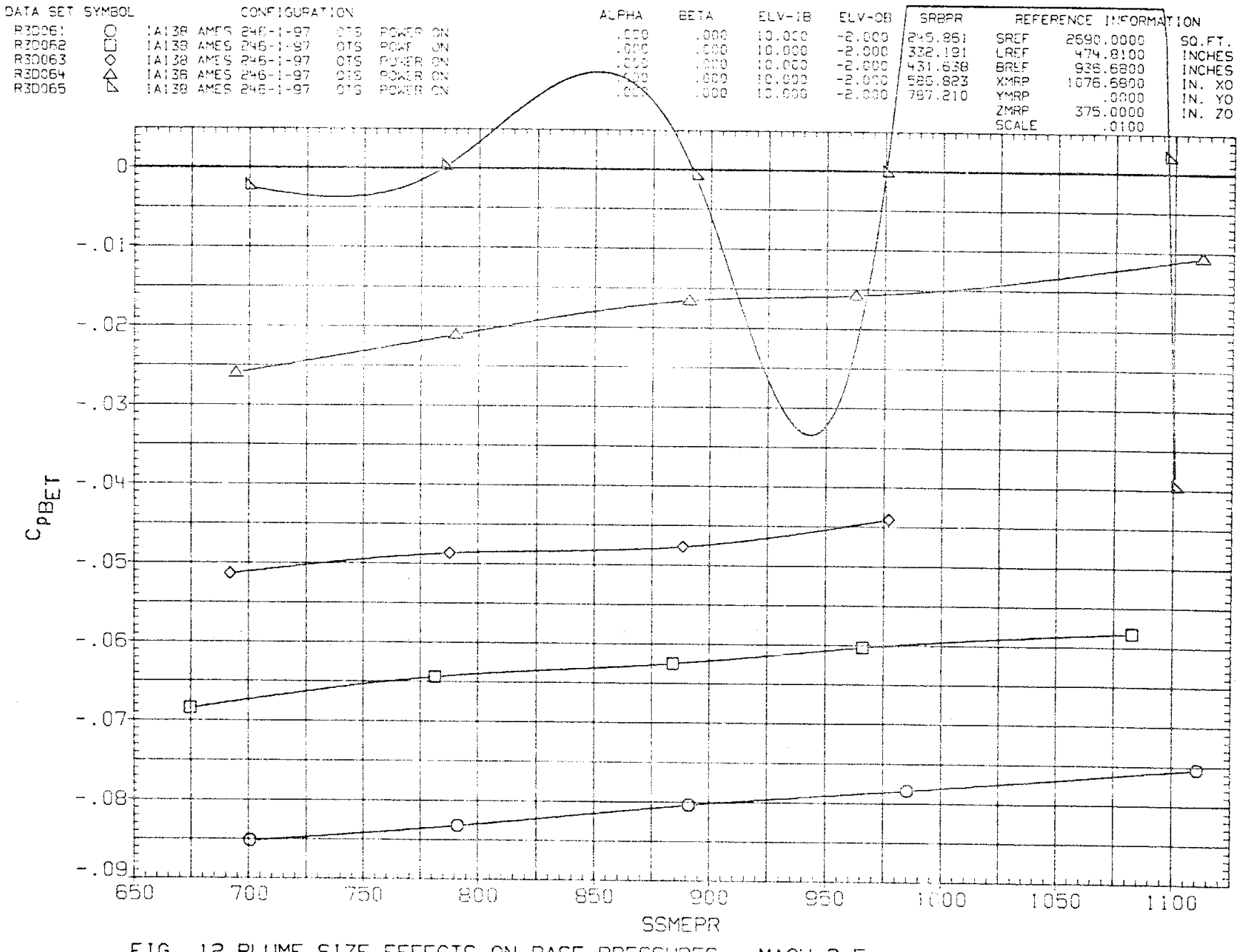


FIG. 12 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.5

(A)MACH = 2.49 DATE 17 OCT 78 PAGE 22

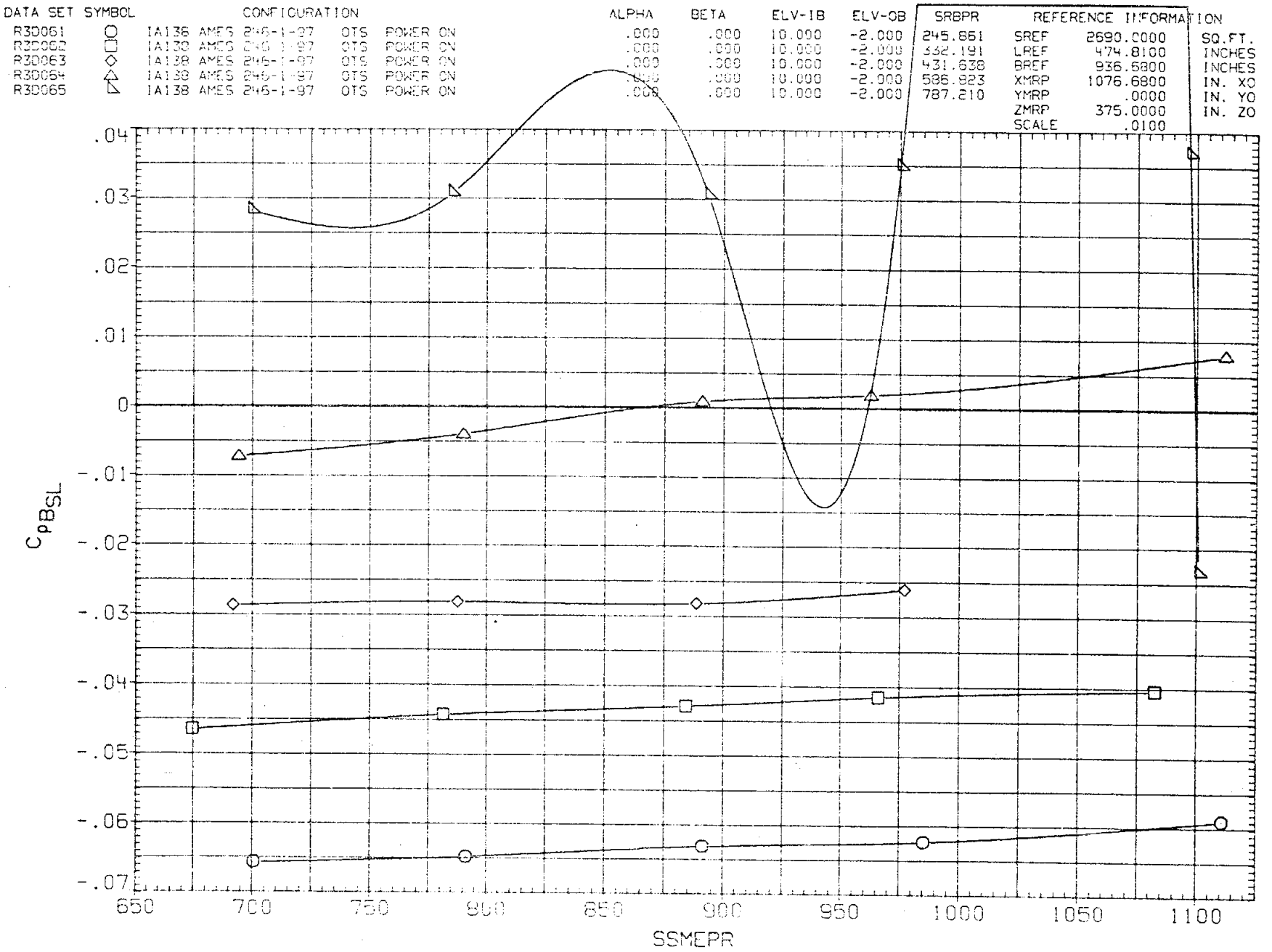


FIG. 12 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.5

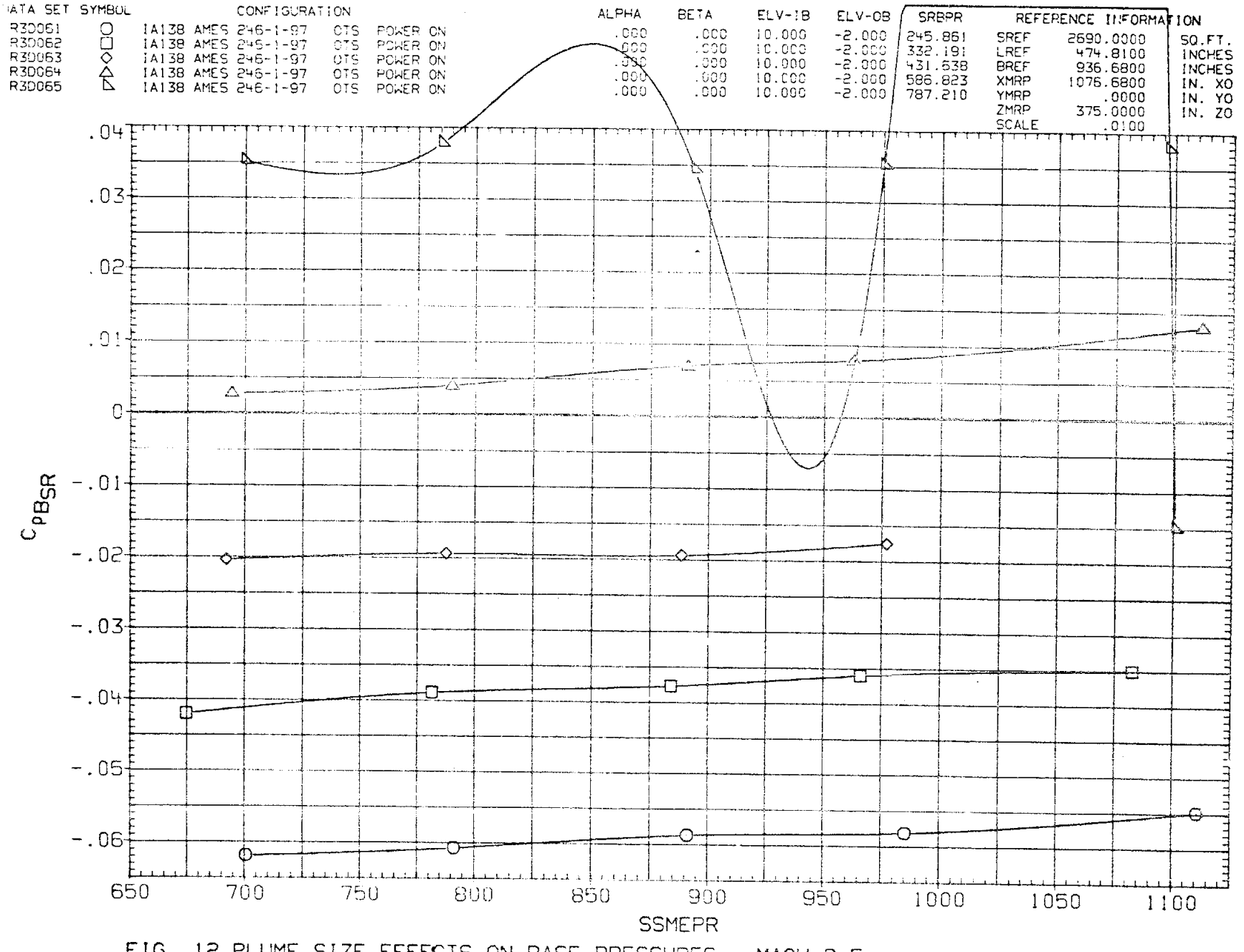


FIG. 12 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.5

(A)MACH = 2.49

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

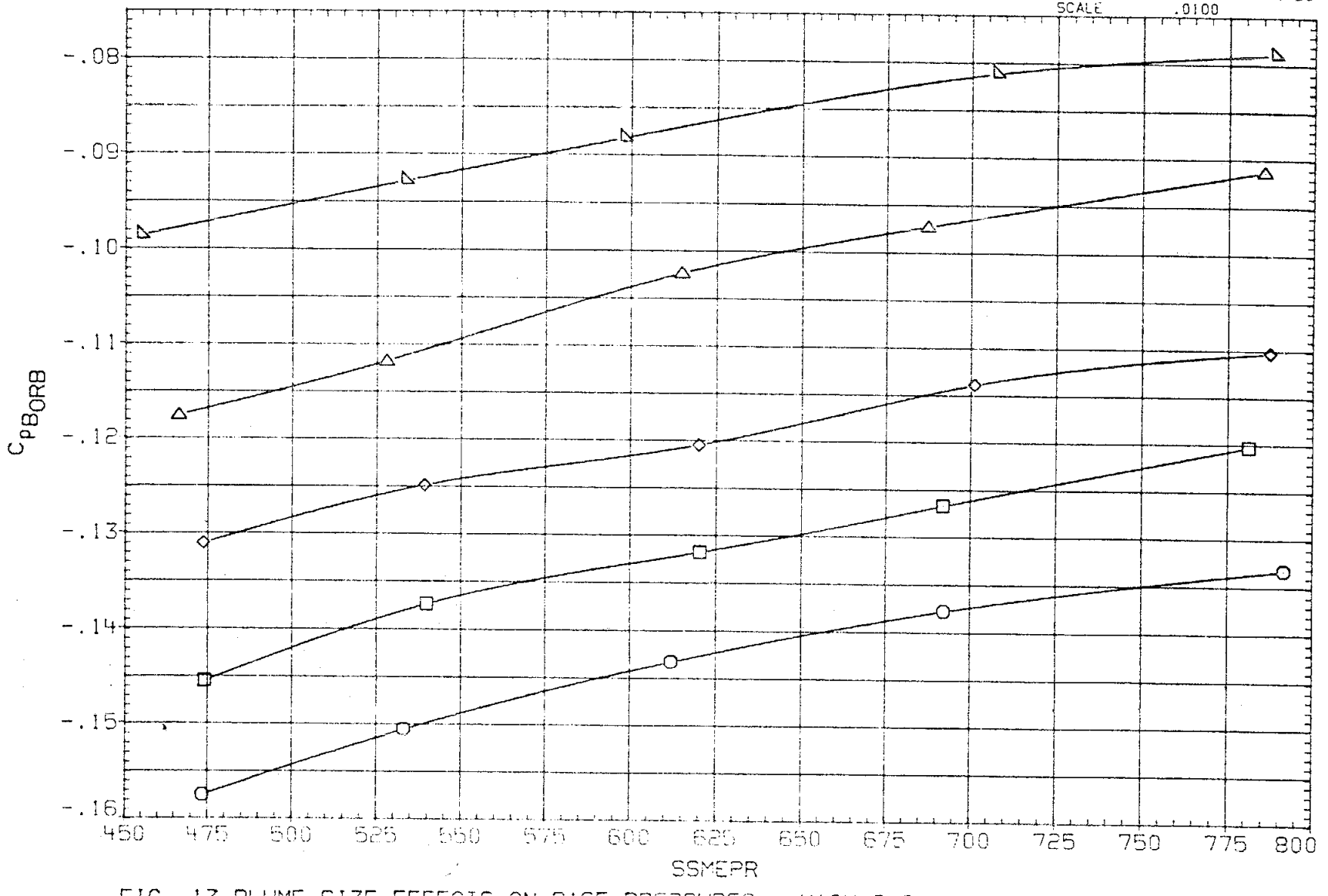


FIG. 13 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.2

(A)MACH = 2.20 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 2%6-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 2%6-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 2%6-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 2%6-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	▽	IA138 AMES 2%6-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

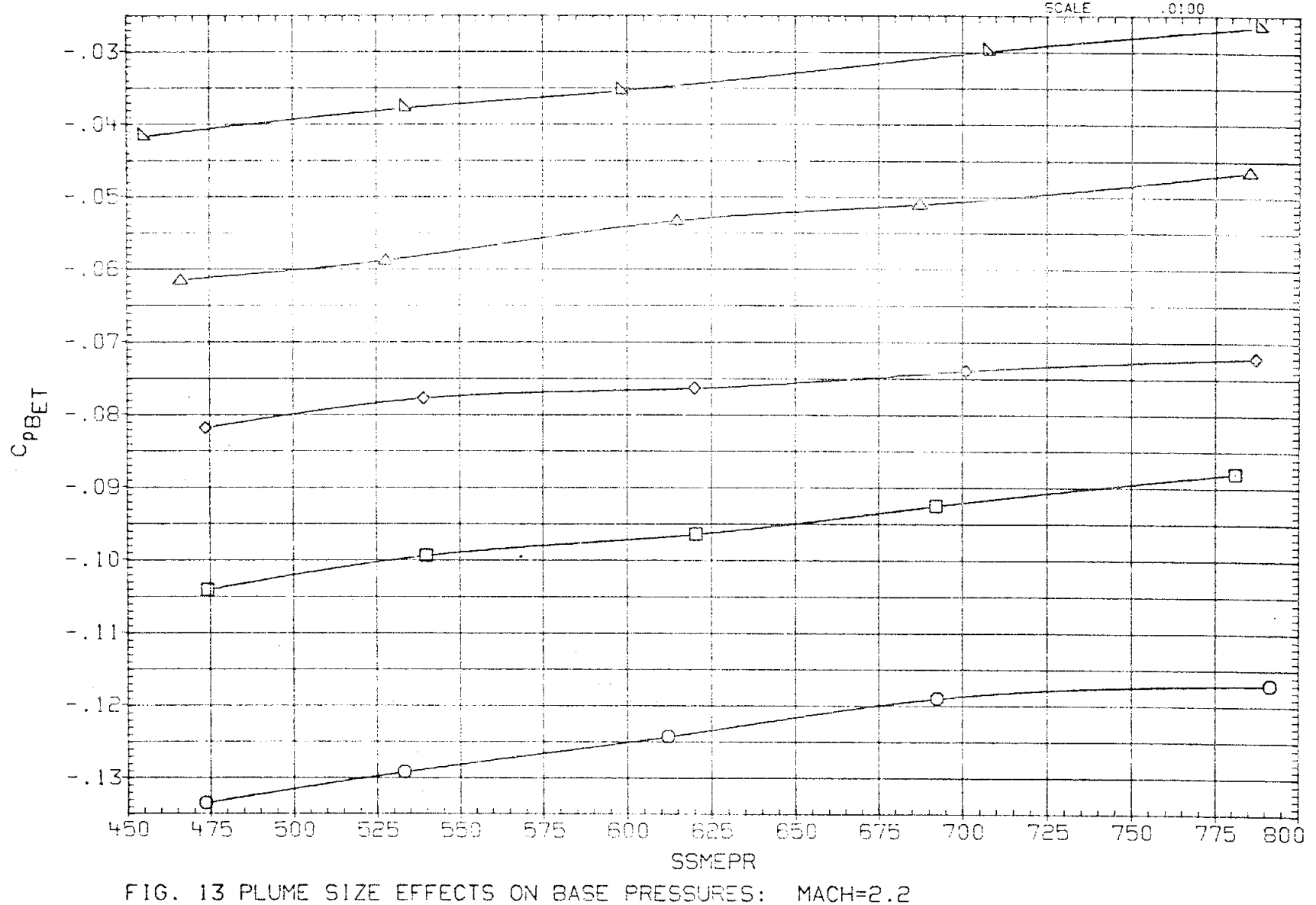


FIG. 13 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.2

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

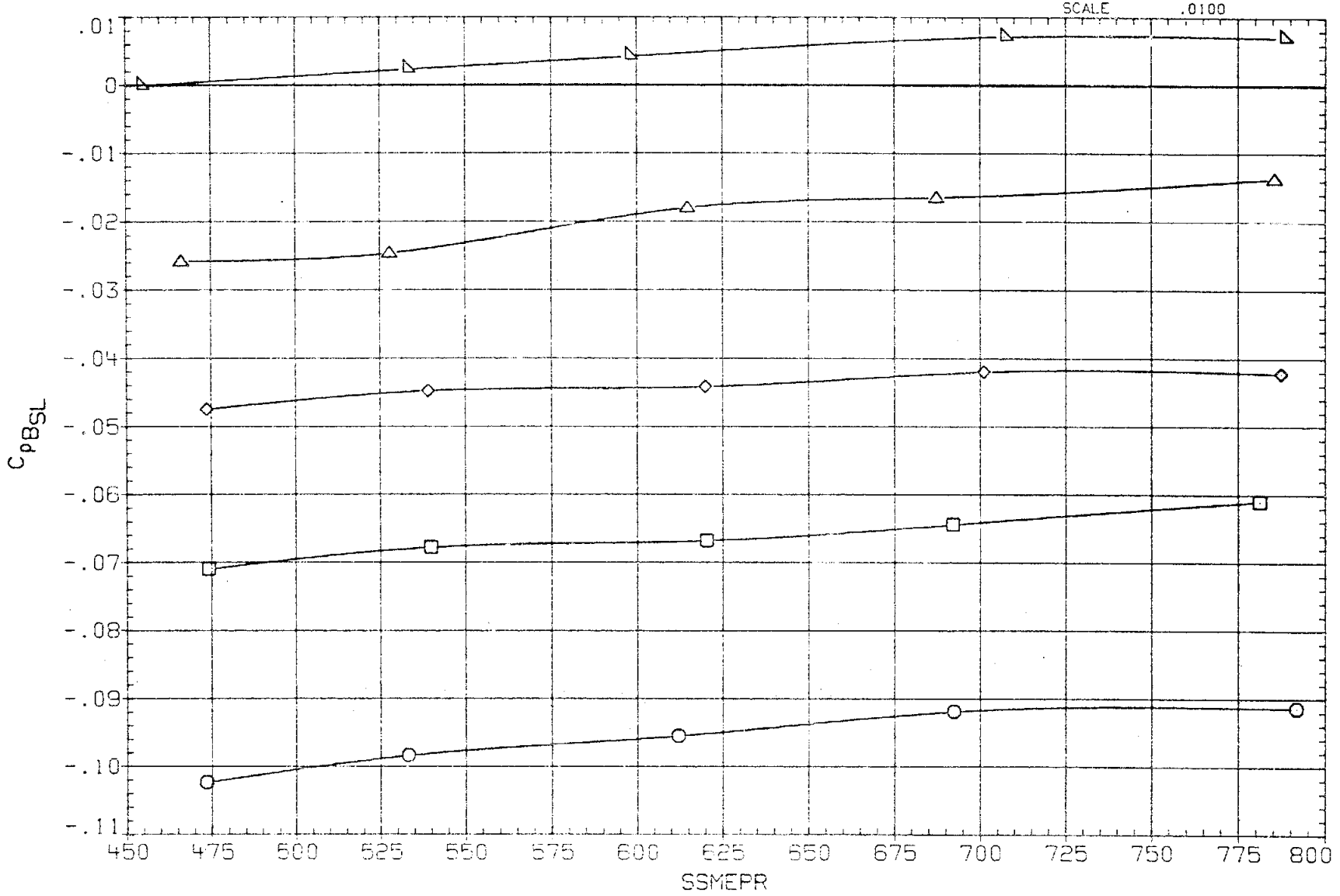


FIG. 13 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.2

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D066	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	173.739
R3D067	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	245.420
R3D068	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	326.815
R3D069	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	422.548
R3D070	◺	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	533.014

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

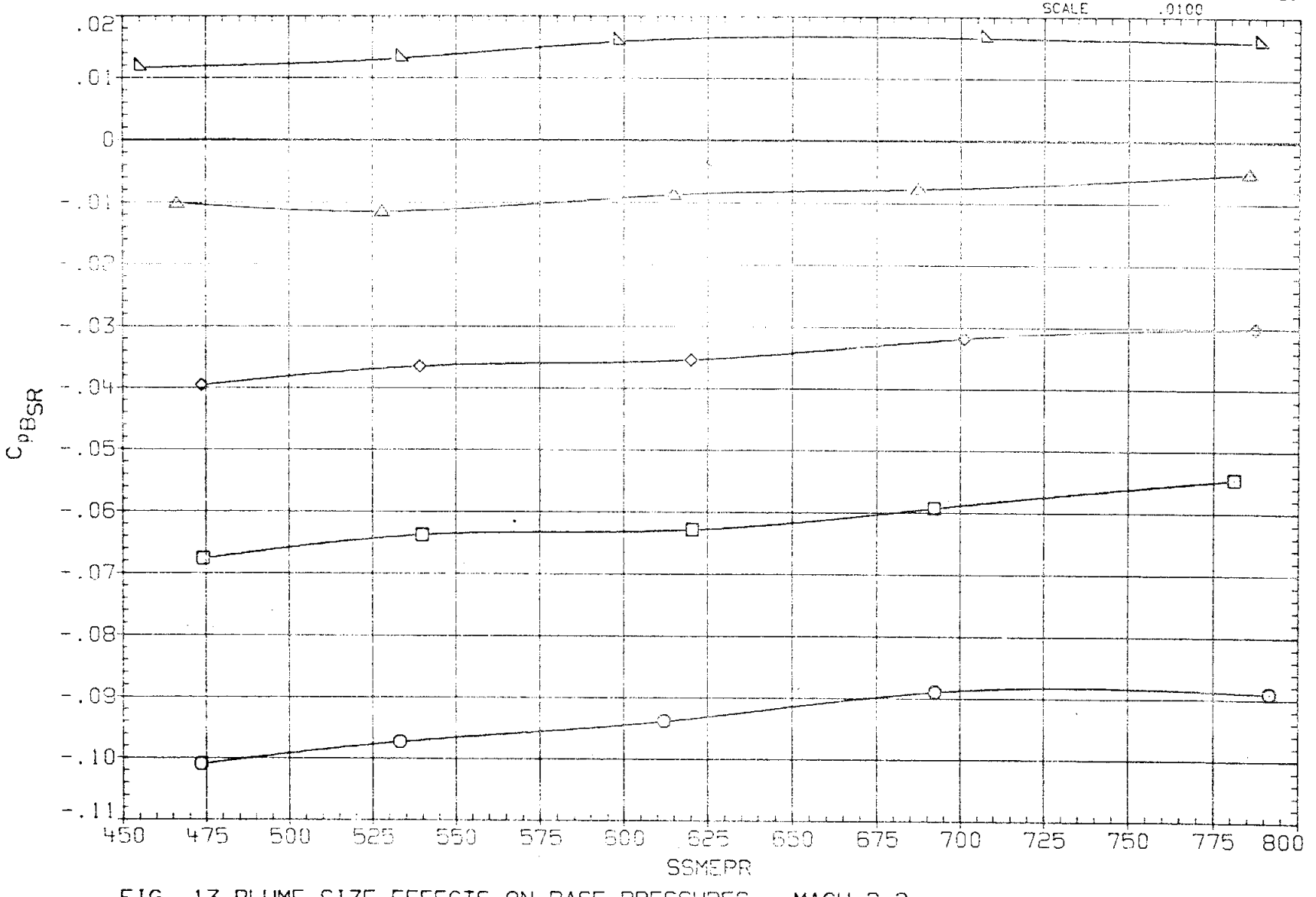


FIG. 13 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=2.2

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	156.726
R3D073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	268.756
R3D075	▽	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

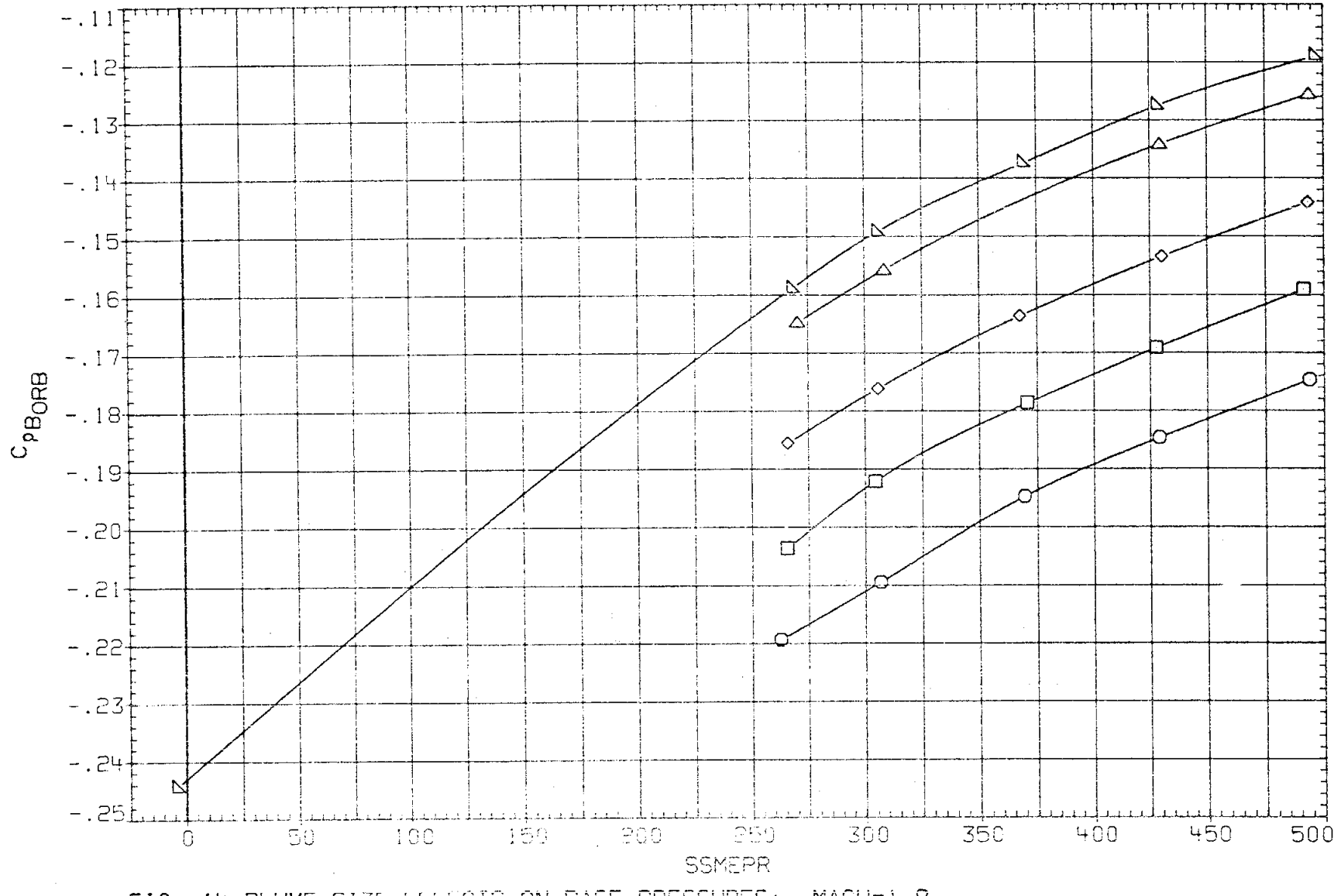


FIG. 14 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.8

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	156.726
R3D073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	268.756
R3D075	▷	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8130	INCHES
BREF	936.6800	INCHES
XMRP	1076.6900	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

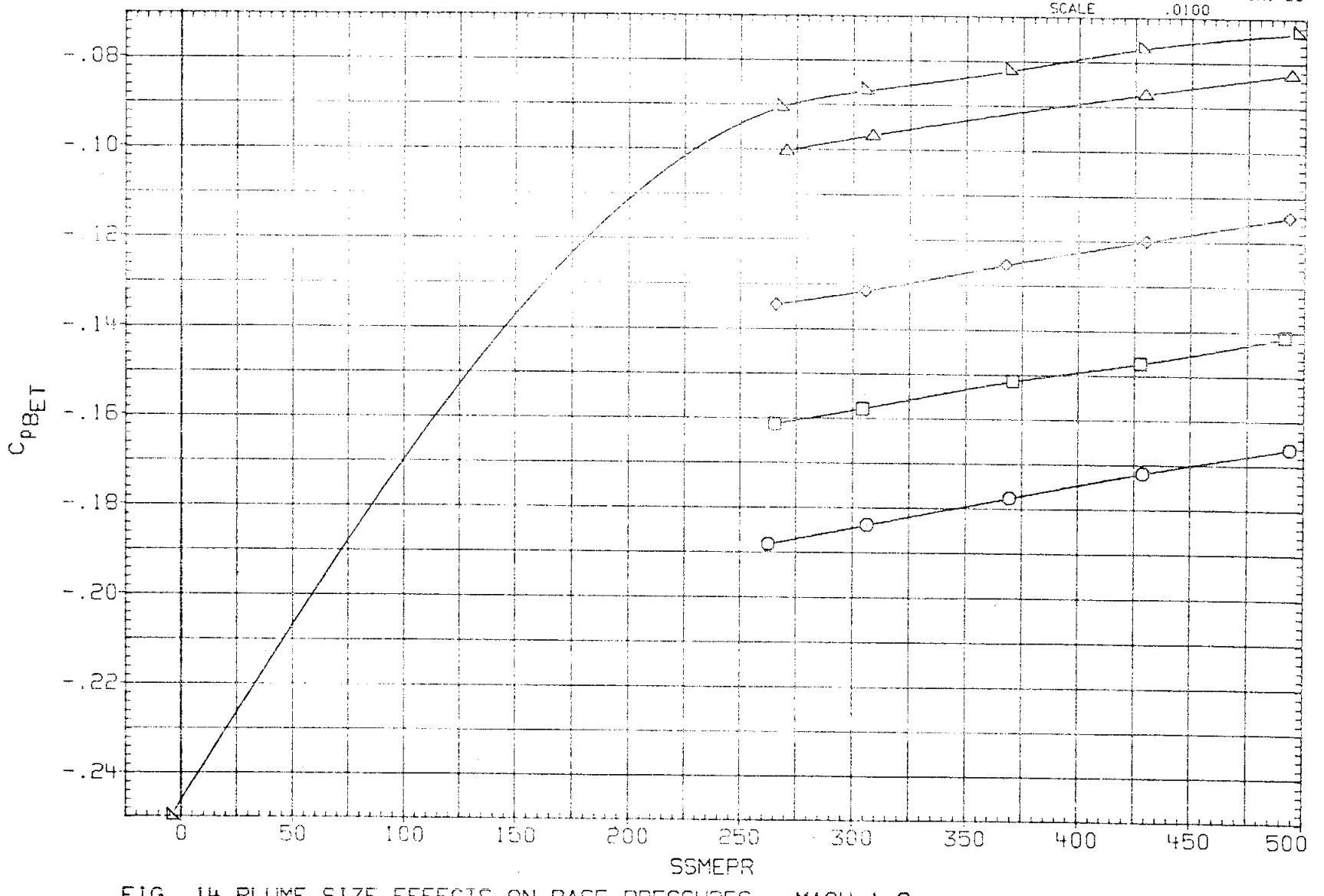


FIG. 14 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.8

(A)MACH = 1.80

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	155.726
R3D073	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	268.756
R3D075	▷	IA138 AMES 246-1 97 OTS POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

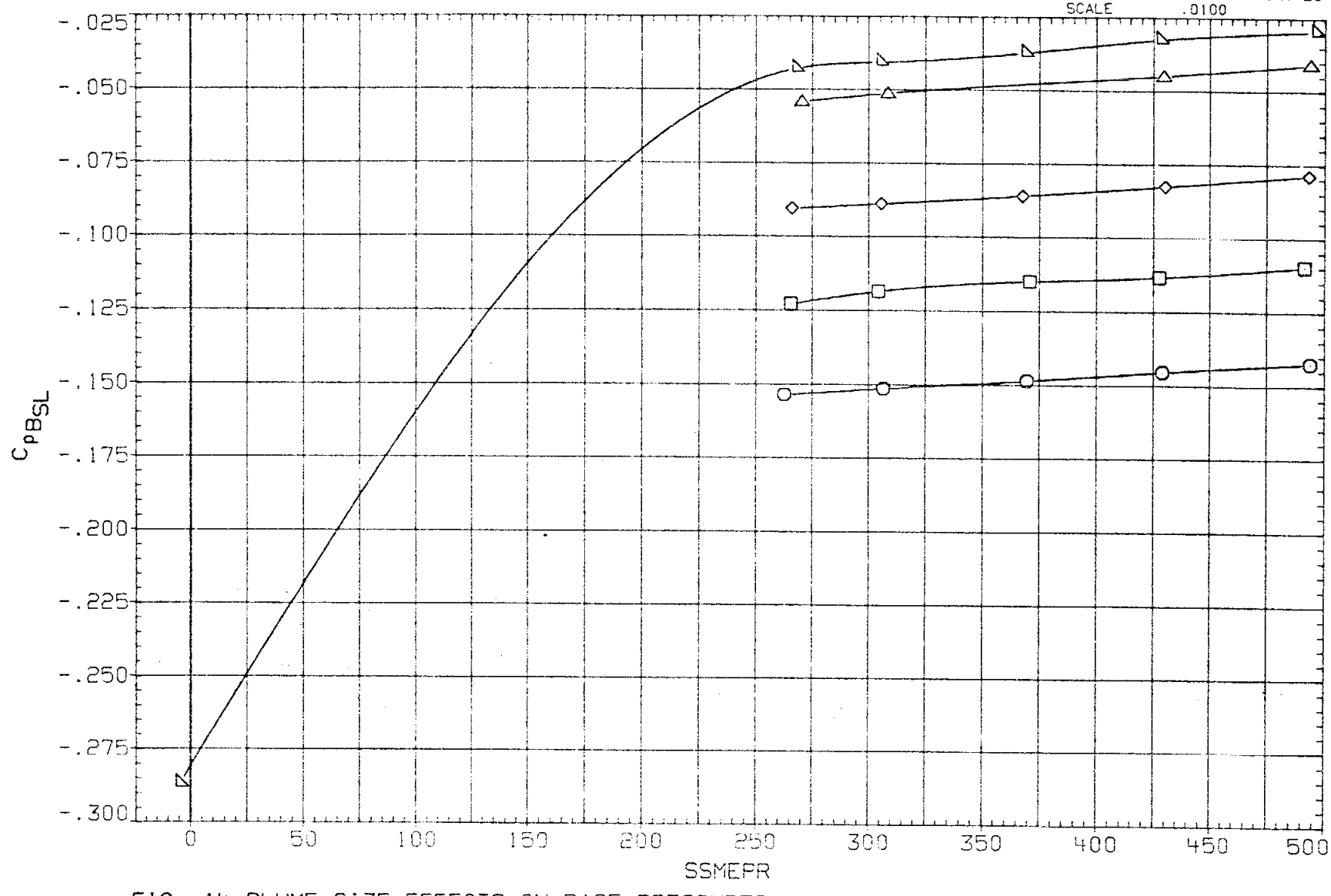


FIG. 14 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.8

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D071	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	119.218
R3D072	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	155.726
R3D073	◇	IA139 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	200.661
R3D074	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	256.756
R3D075	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	246.024

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

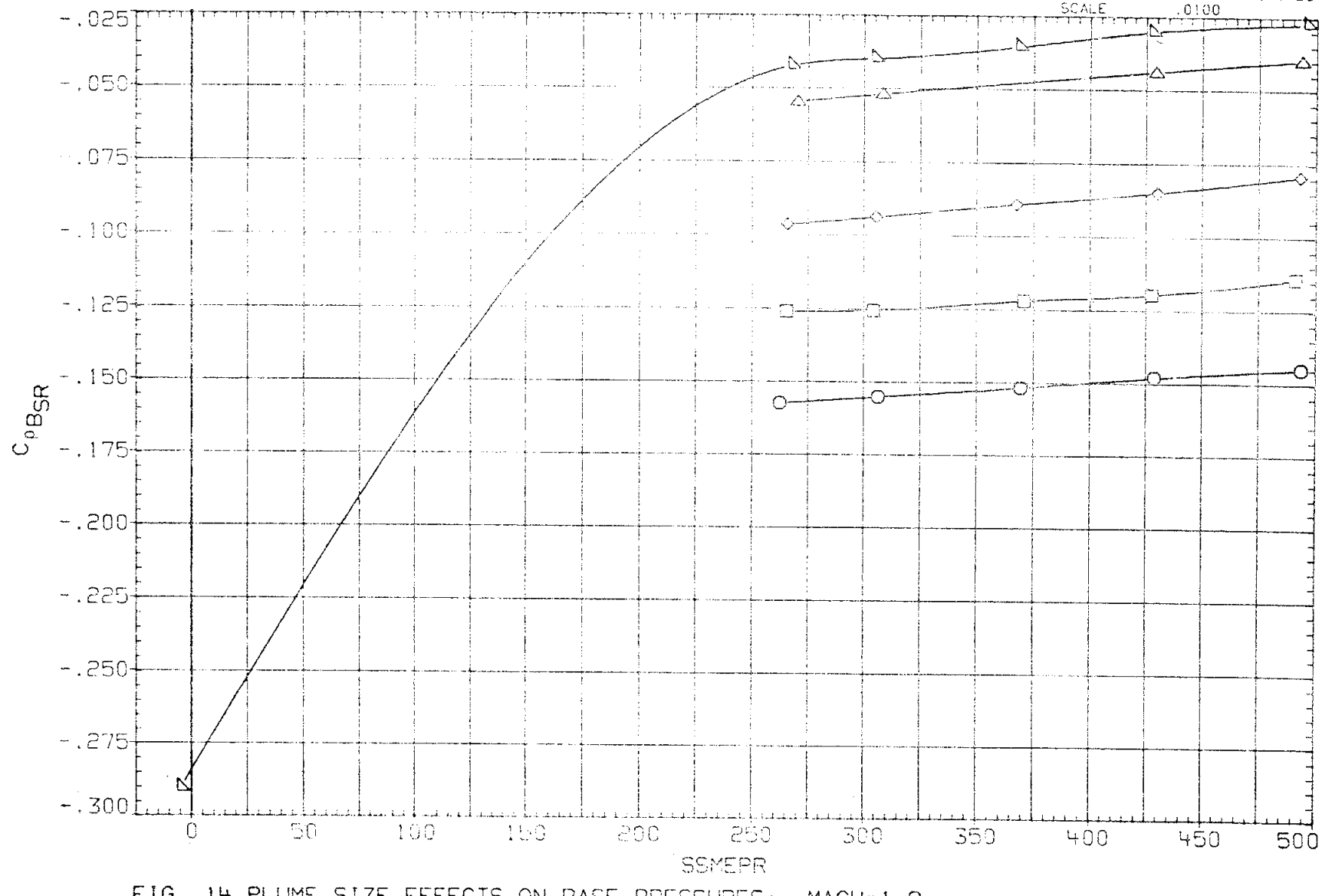


FIG. 14 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.8

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	153.981
R3D079	△	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	197.234
R3D080	◁	IA138 AMES 246-1-97 OTS POWER ON	.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

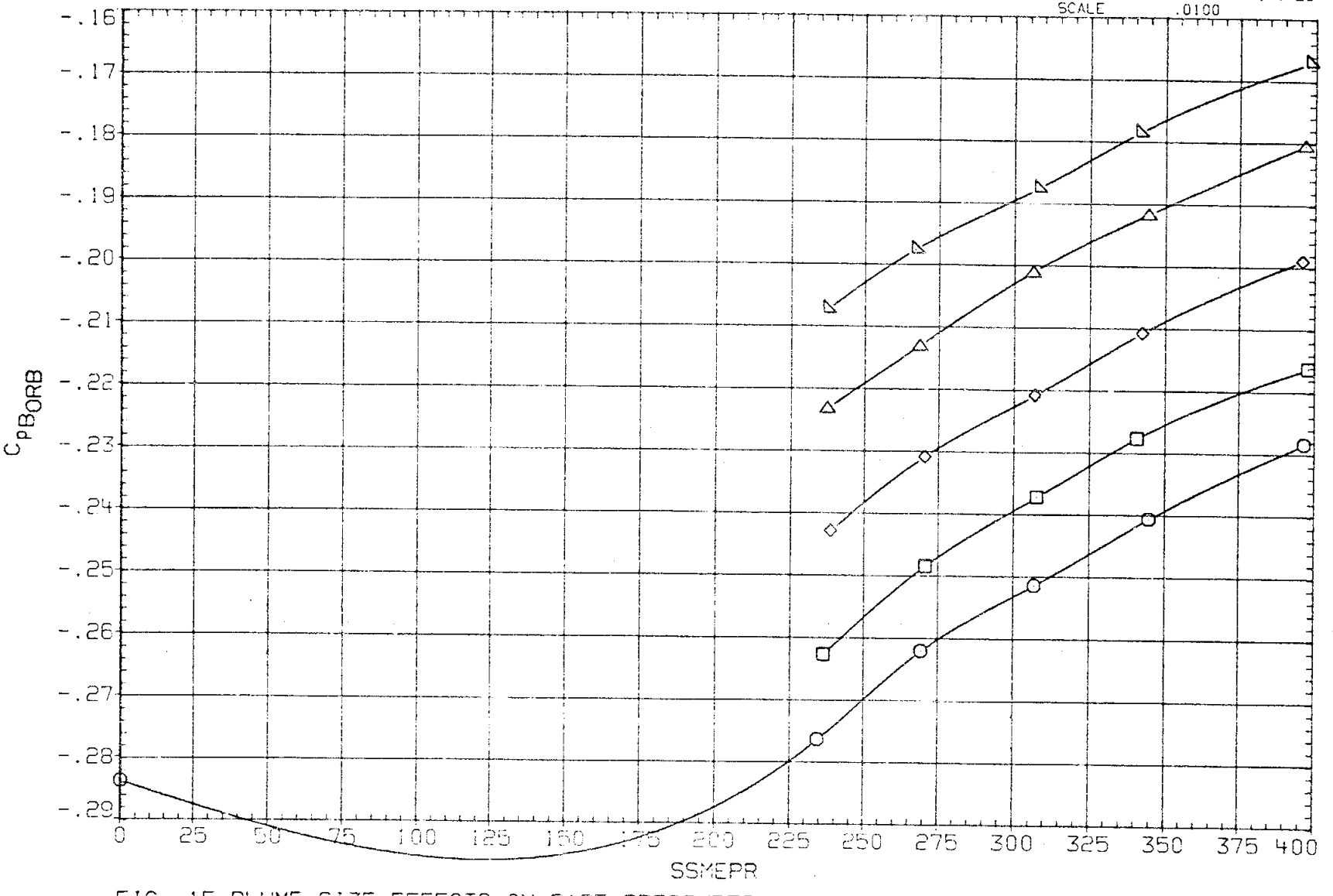


FIG. 15 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.55

(A)MACH = 1.55 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	153.991
R3D079	△	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	197.234
R3D080	◁	IA138 AMES 246-1-97	OTS	POWER ON		.000	.000	10.000	-2.000	238.310

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.9500	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

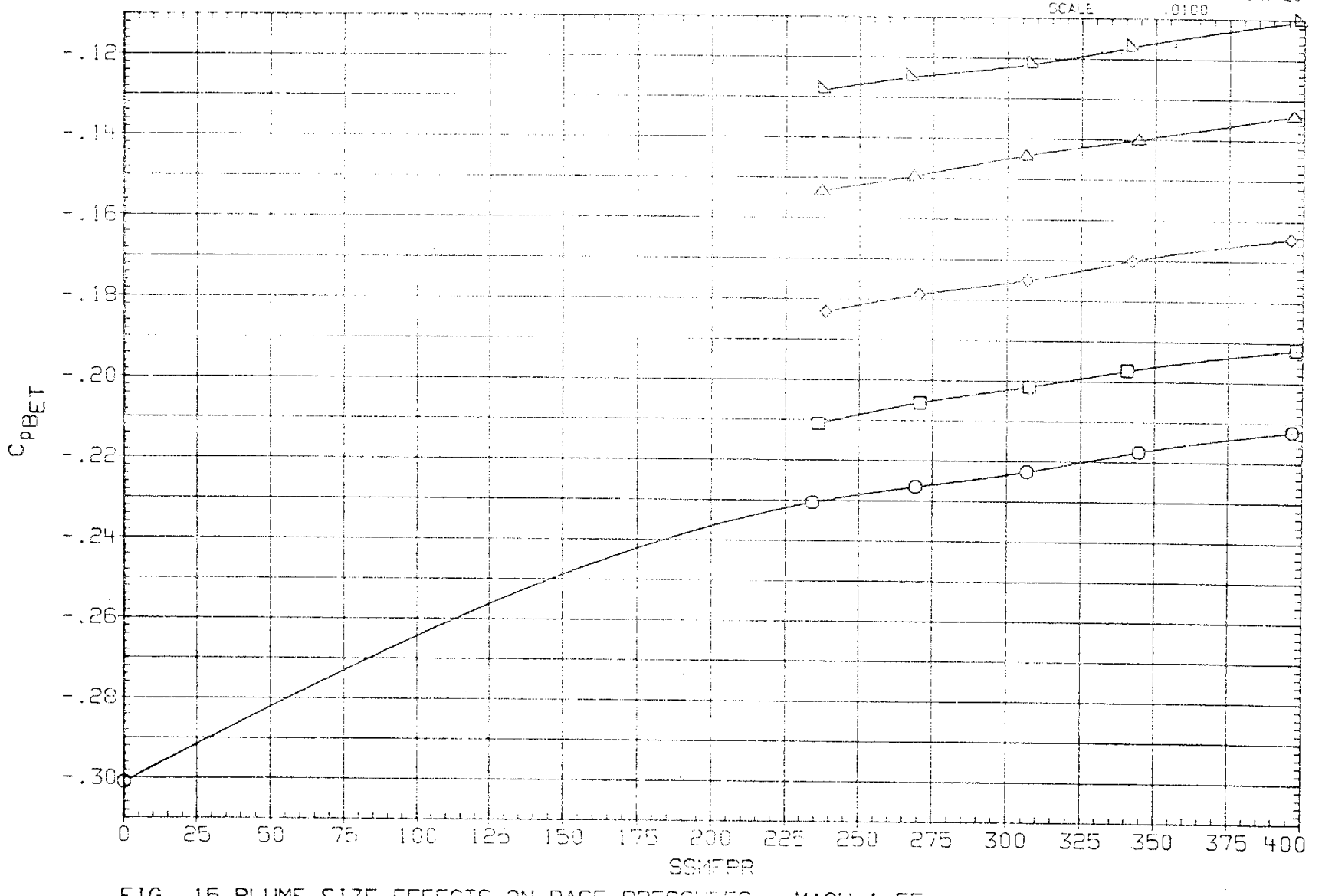


FIG. 15 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.55

DATA SET	SYMBOL	CONFIGURATION			ALPHA	BETA	ELV-IB	ELV-OB	SRBPR
R3D076	○	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	153.981
R3D079	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	197.234
R3D080	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	.000	10.000	-2.000	235.910

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

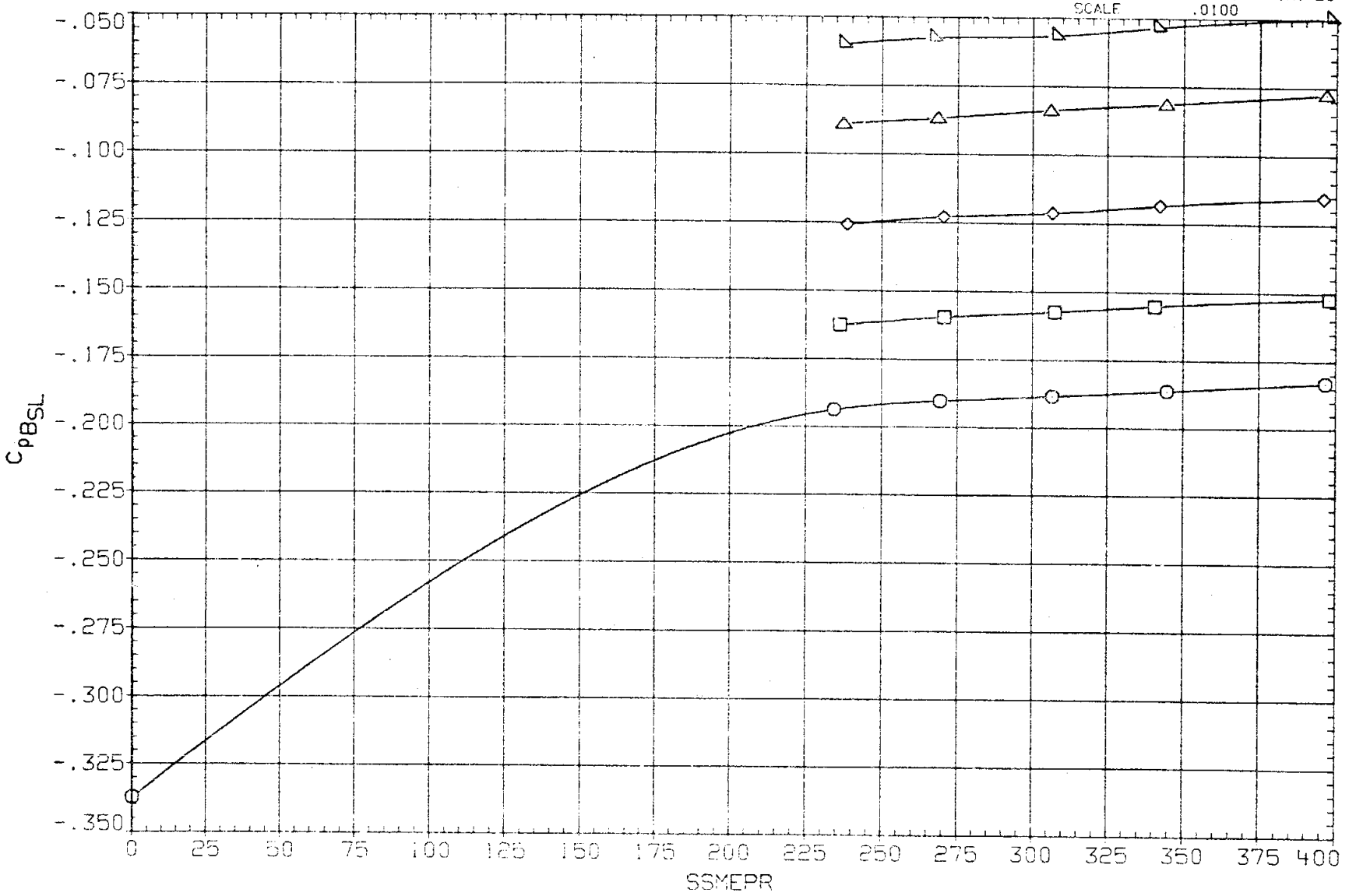


FIG. 15 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.55

(A)MACH = 1.55 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ALPHA	BETA	ELV-IB	ELV-OB	SRSPR
R3D076	○	IA130 AMES 246-1-97	01S	POWER ON		.000	.000	10.000	-2.000	81.454
R3D077	□	IA138 AMES 246-1-97	01S	POWER ON		.000	.000	10.000	-2.000	120.674
R3D078	◇	IA138 AMES 246-1-97	01S	POWER ON		.000	.000	10.000	-2.000	165.981
R3D079	△	IA138 AMES 246-1-97	01S	POWER ON		.000	.000	10.000	-2.000	197.234
R3D080	▽	IA136 AMES 246-1-97	01S	POWER ON		.000	.000	10.000	-2.000	236.910

REFERENCE INFORMATION		
SREF	2090.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

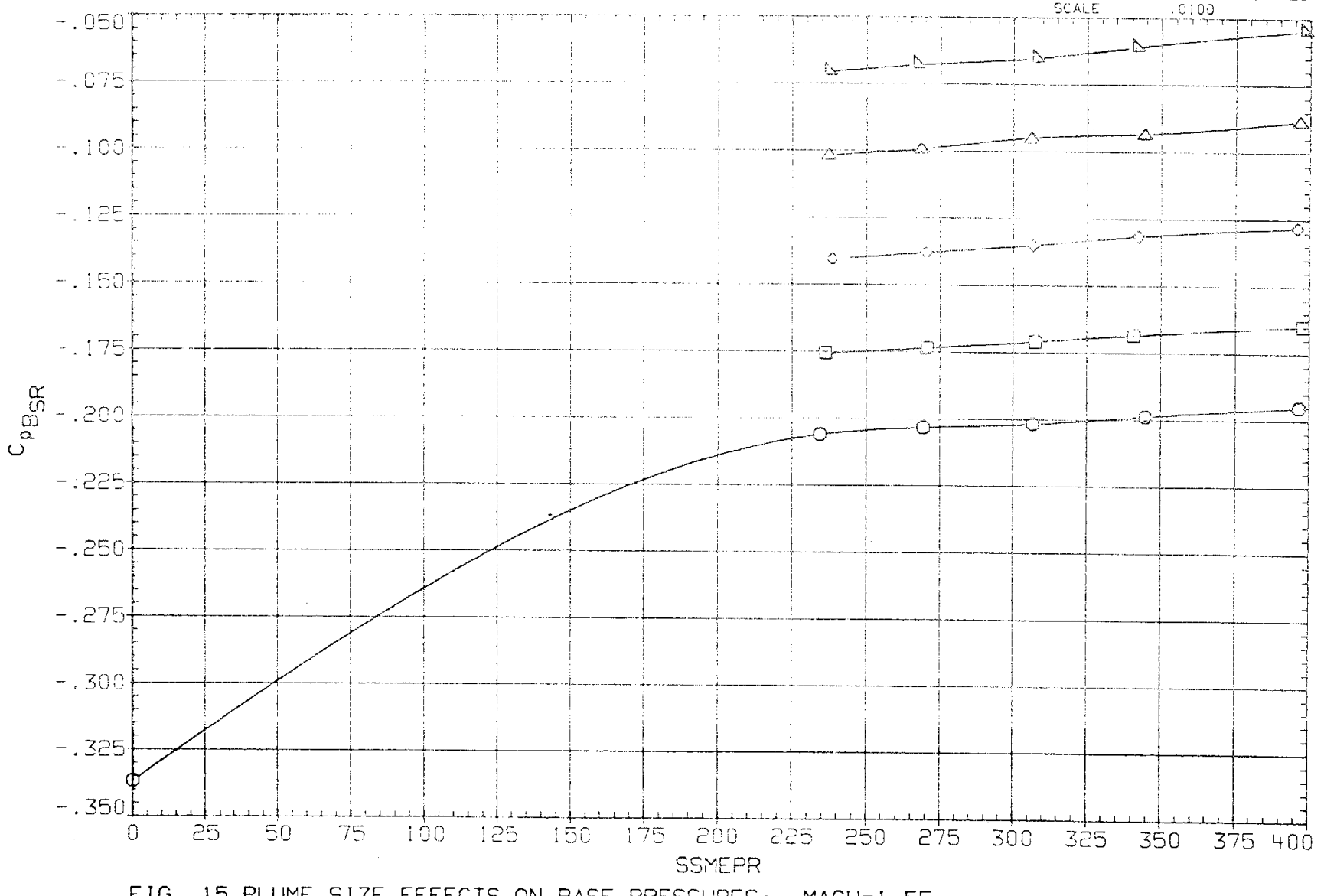


FIG. 15 PLUME SIZE EFFECTS ON BASE PRESSURES: MACH=1.55

DATA SET	SYMBOL	CONFIGURATION		
R3D031	○	IA138 AMES 246-1-77	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-[illegible]	OTS	POWER OFF
R3D071	◇	IA138 AMES 246-1-[illegible]	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-2.000	1.550	.000	.000
10.000	0.000	1.550	197.262	372.504
10.000	-2.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	956.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

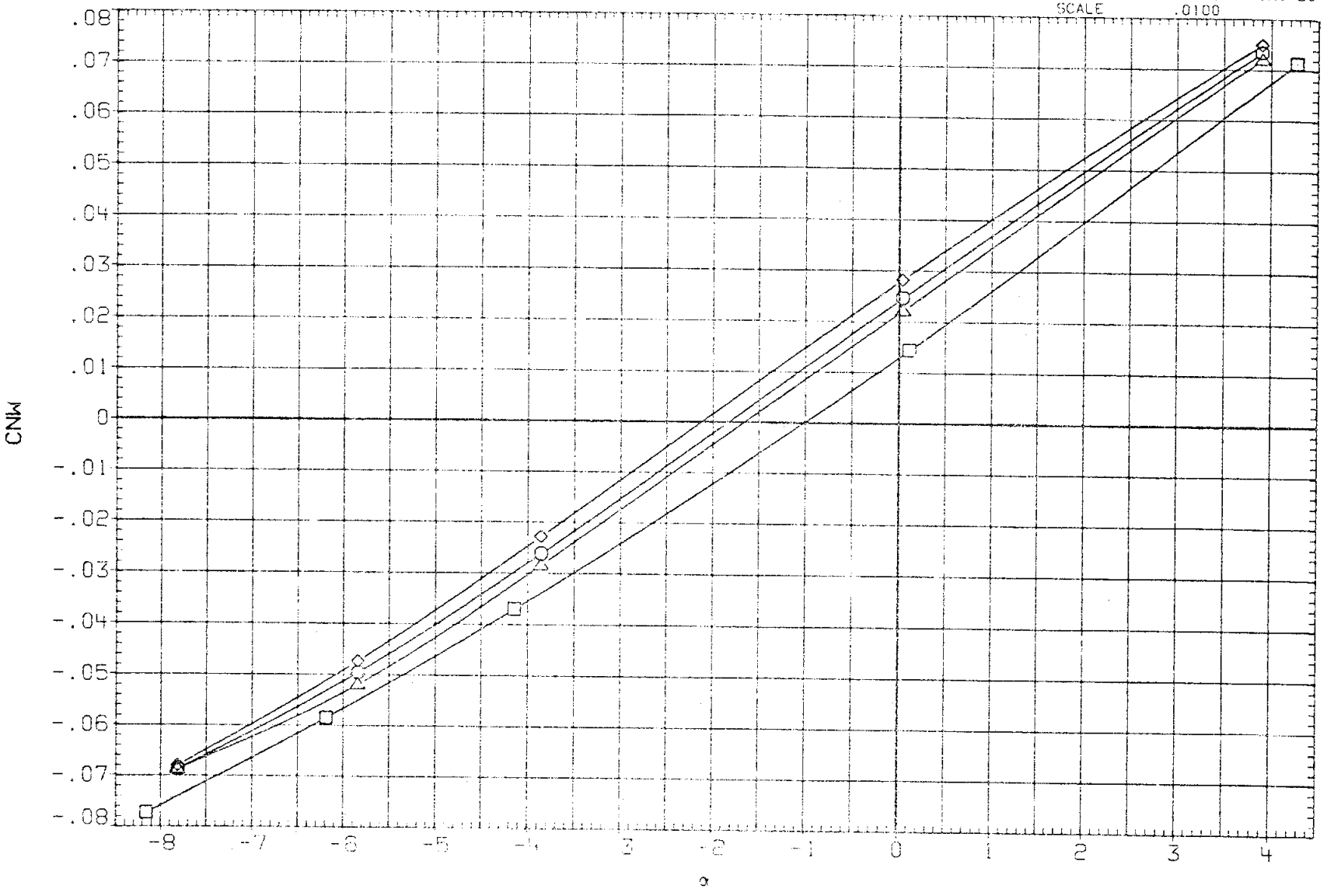


FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(A) BETA = -4.10

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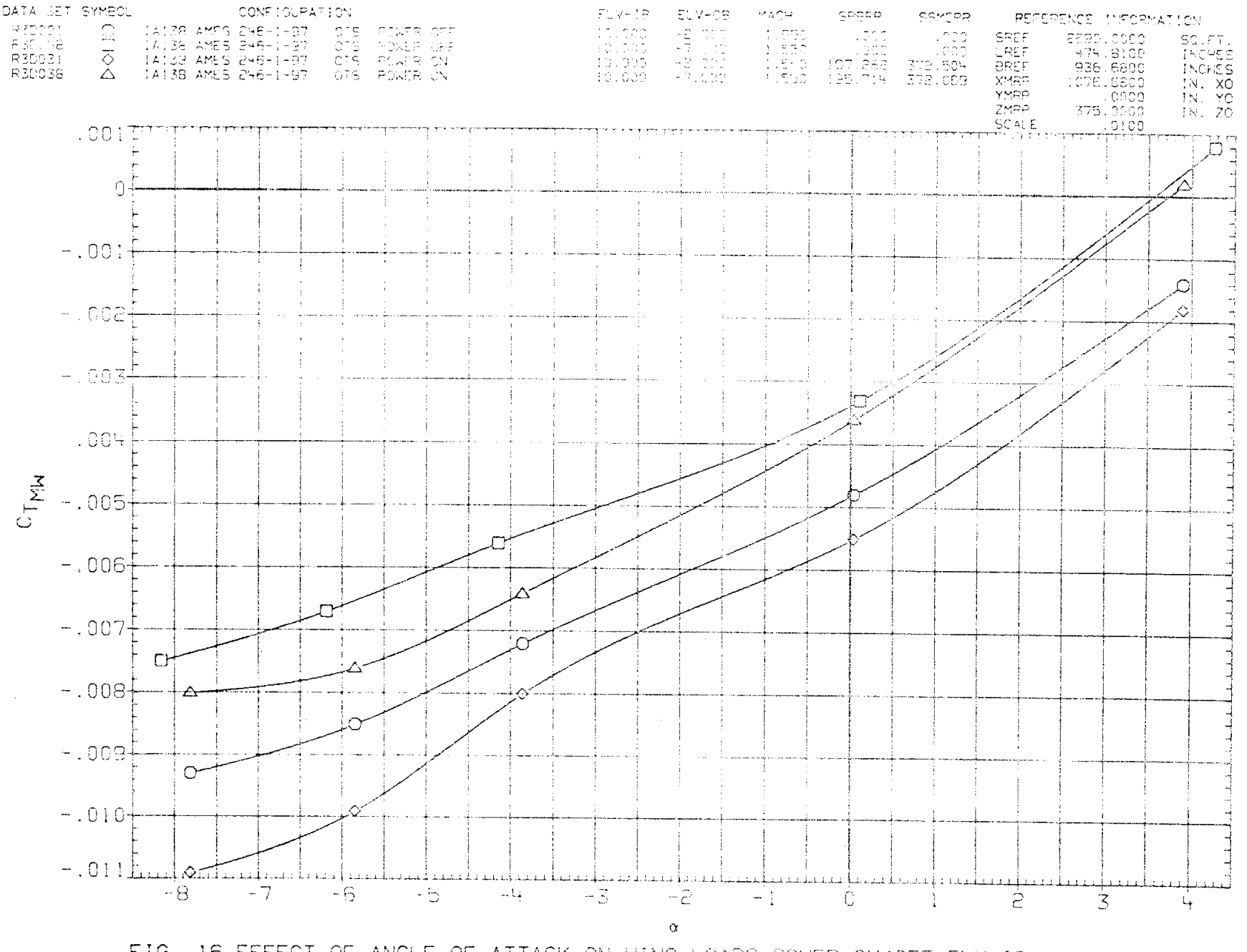

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(A) BETA = -4.10

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DATA SET	SYMBOL	CONFIGURATION			
R30001	○	1A138 AMES 246-1-97	OTS	POWER OFF	
R30009	□	1A138 AMES 246-1-97	OTS	POWER OFF	
R30031	◇	1A138 AMES 246-1-97	OTS	POWER ON	
R30038	△	1A138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-2.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-2.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

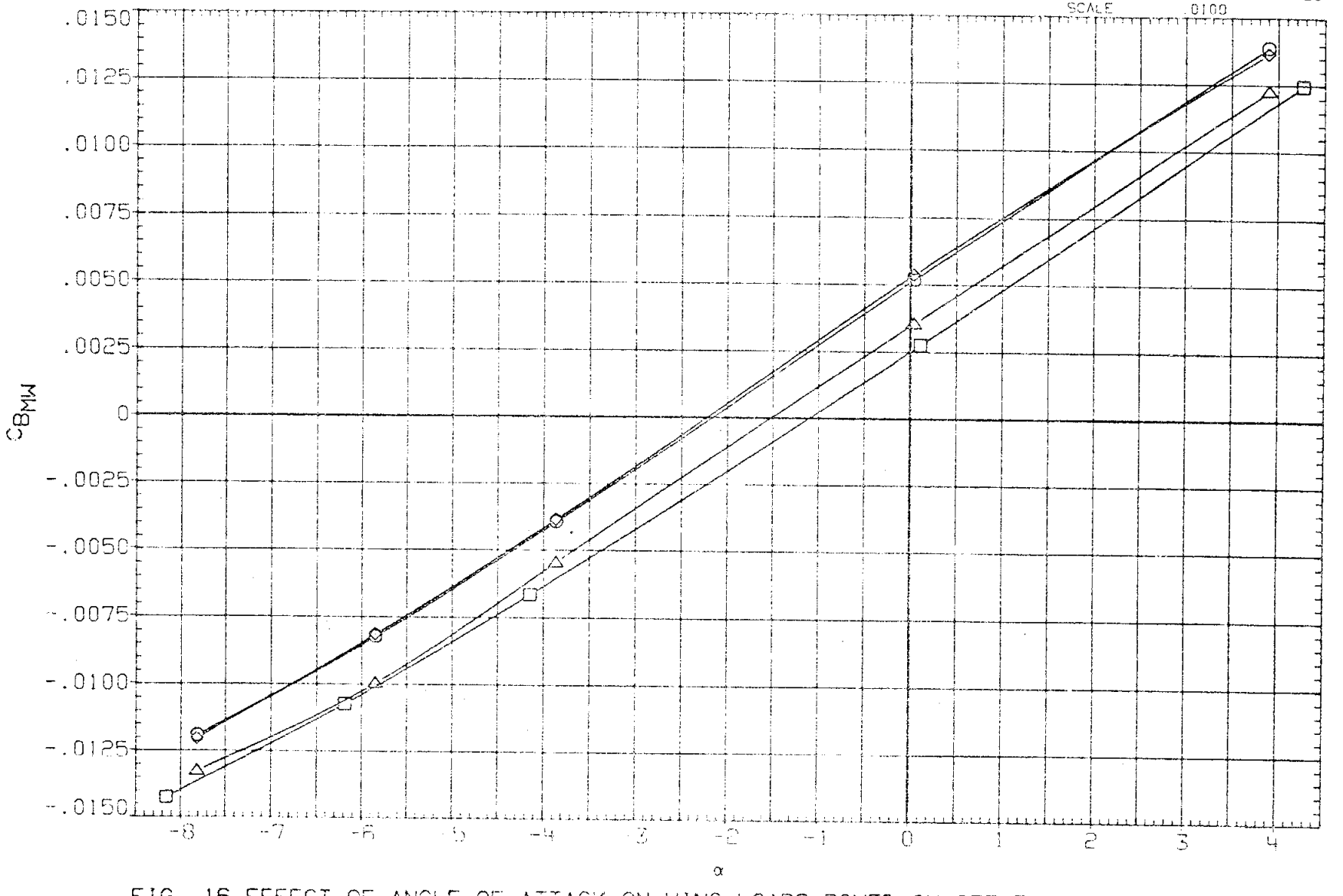

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(A) BETA = -4.10

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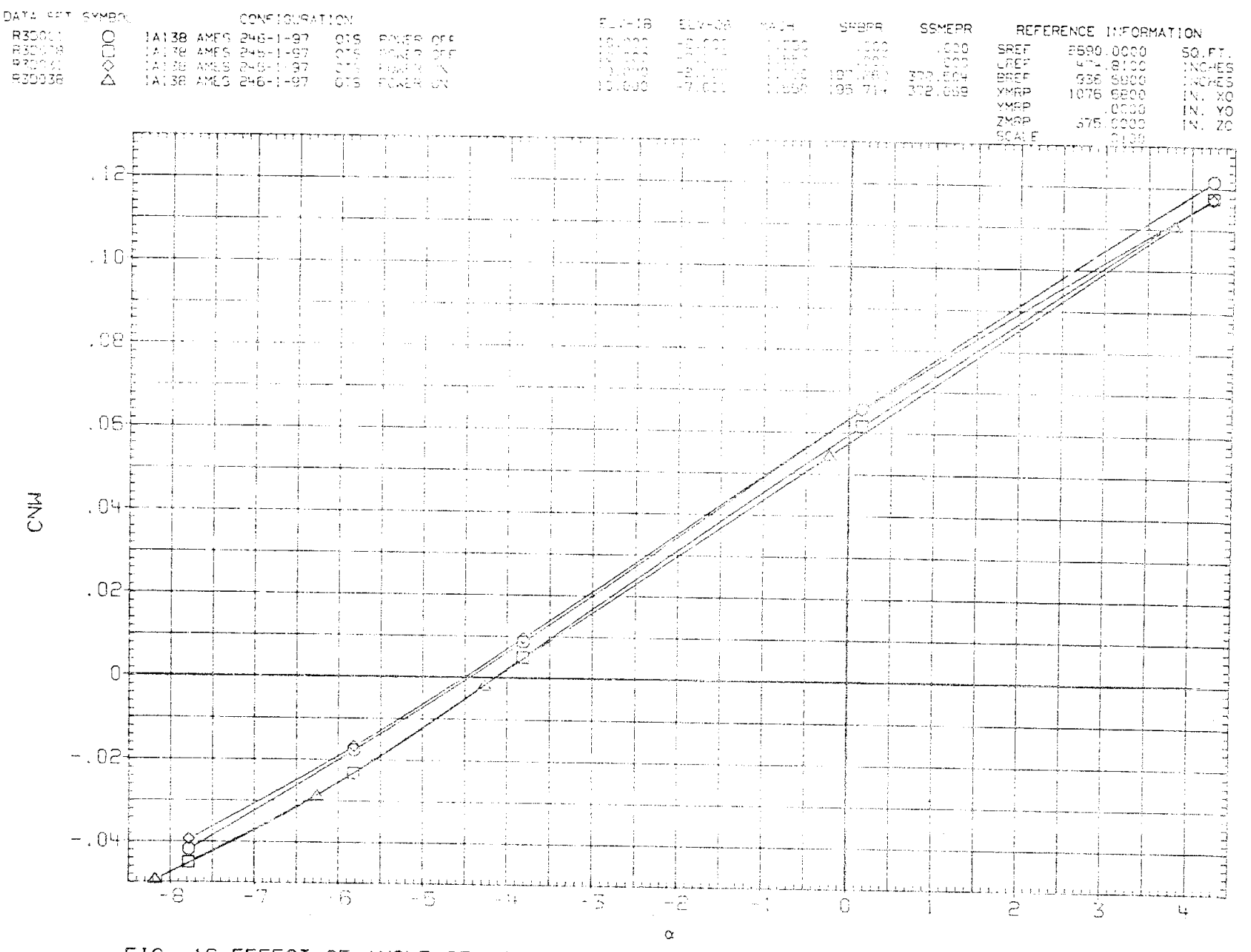

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(B) BETA = -.22

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DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D036	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-2.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-2.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

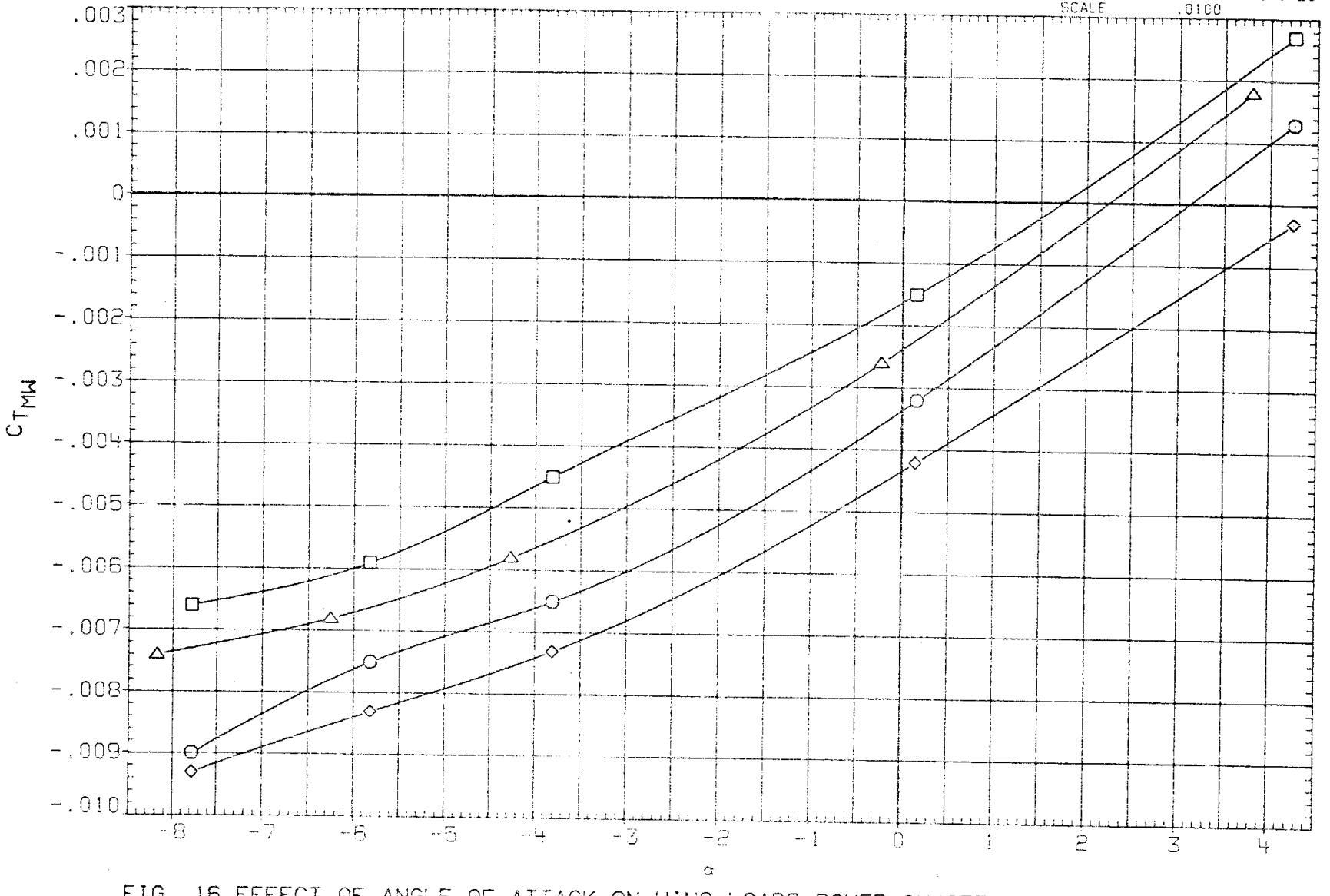

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(B)BETA = -.22

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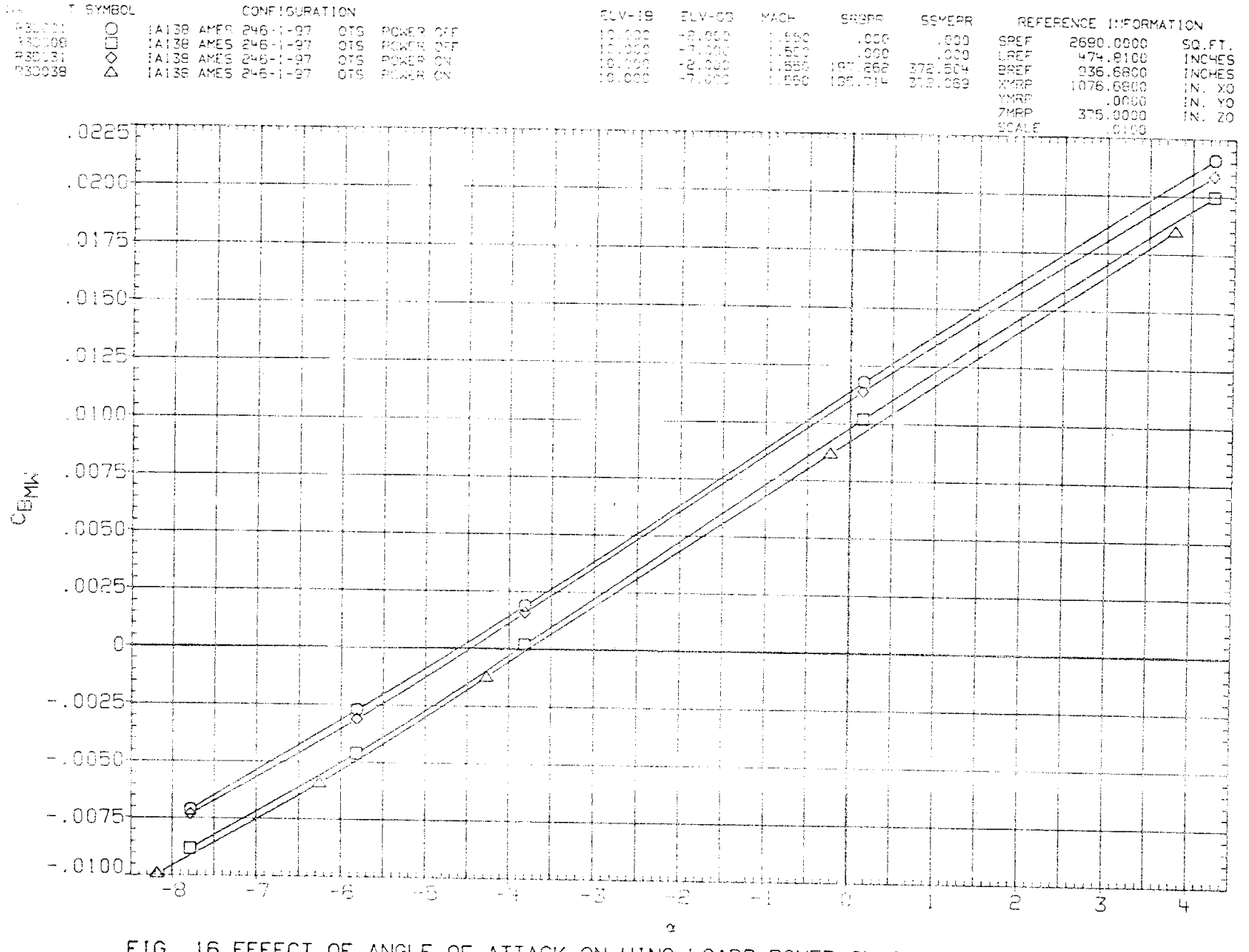

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(B)BETA = -.22

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R30001	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.550	.000	.000
R30008	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.550	.000	.000
R30031	◇	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.550	107.252	372.504
R30038	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.550	105.714	372.069

REFERENCE INFORMATION		
SREF	2890.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

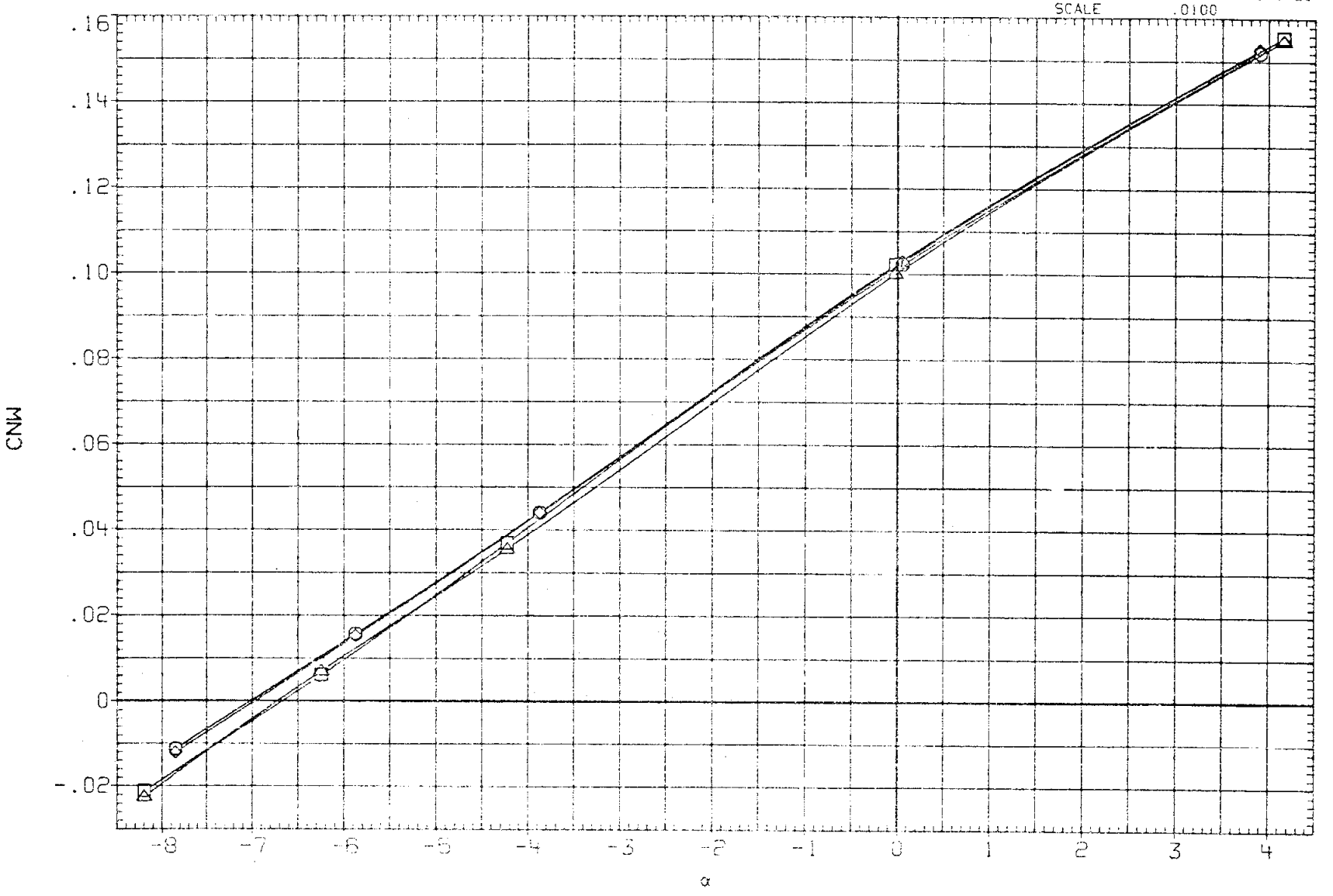

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

	SYMBOL	CONFIGURATION		
[illegible]	○	IA138 AMES 245-1-97	OTS	POWER OFF
[illegible]	◇	IA138 AMES 245-1-97	OTS	POWER OFF
R3D021	◇	IA138 AMES 245-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 245-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SREFR	SSMEFR
[illegible]	[illegible]	[illegible]	.000	.000
[illegible]	[illegible]	[illegible]	.000	.000
10.000	[illegible]	[illegible]	197.262	372.504
10.000	[illegible]	1.550	196.714	372.068

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

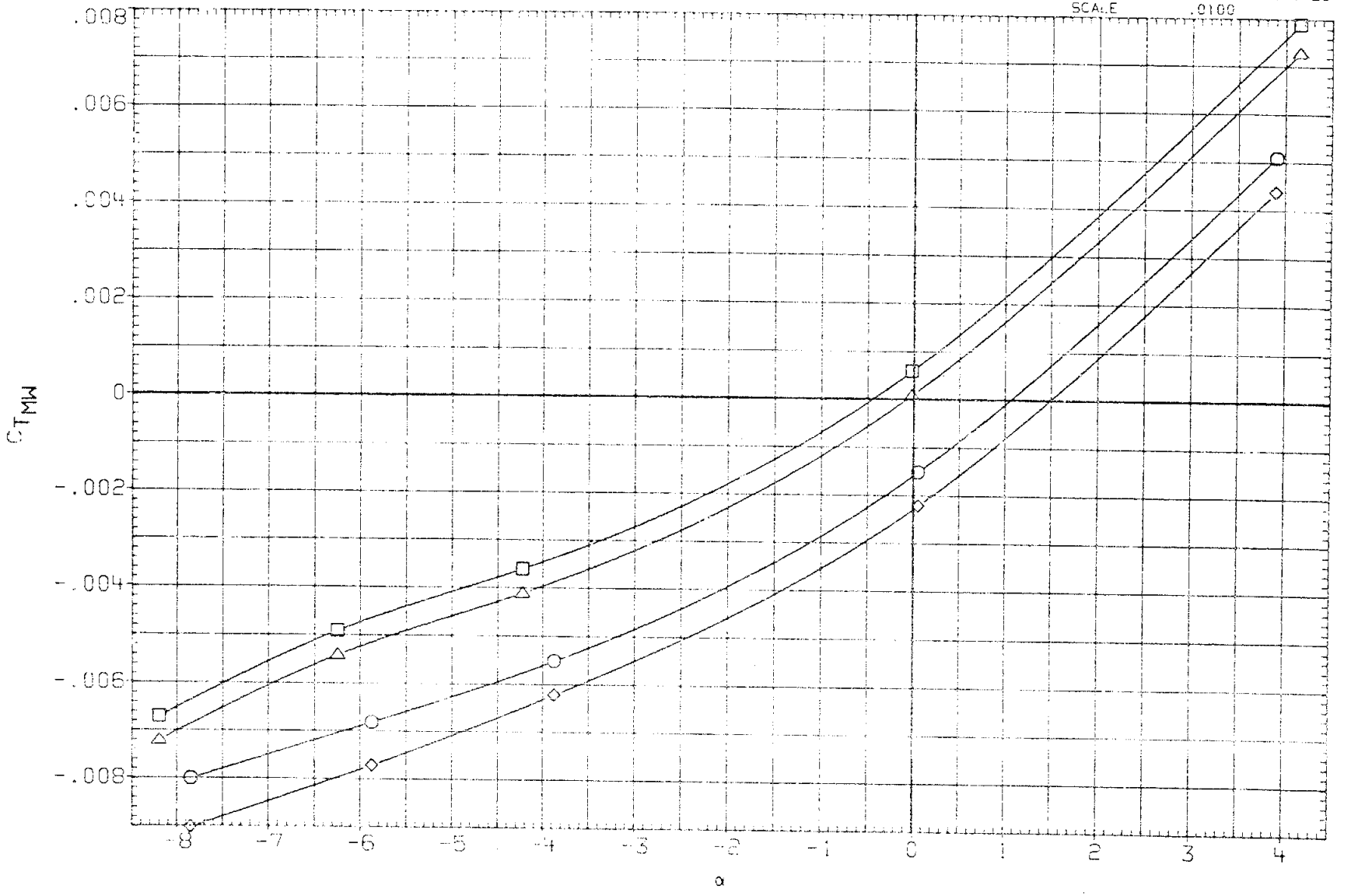

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(C)BETA = 3.63

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DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRRPR	SSMEPR
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.550	.000	.000
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.550	.000	.000
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.550	197.262	372.504
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1075.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

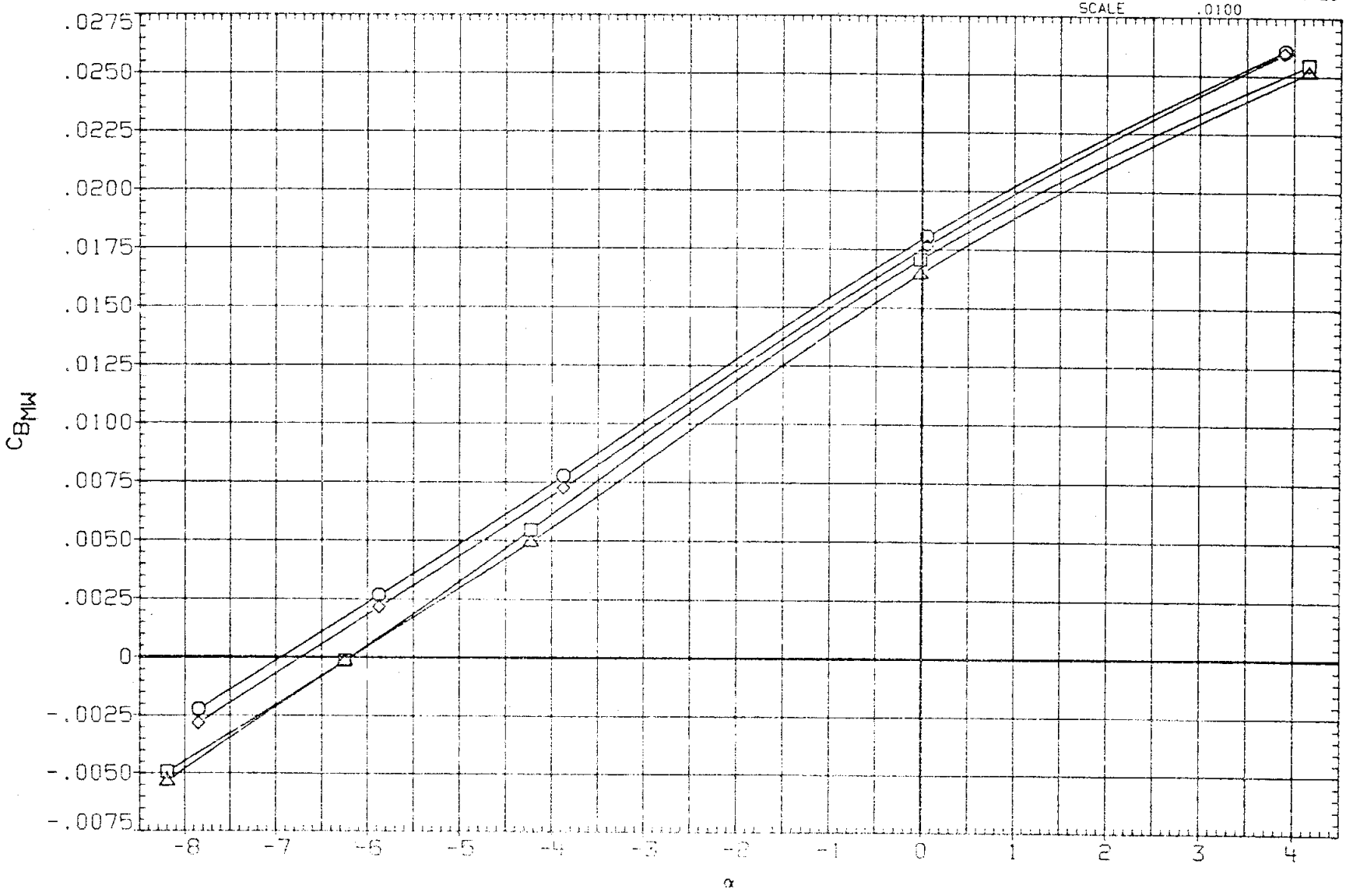

FIG. 16 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.55

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799
R3D035	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102
R3D039	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	275.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SC/LE	.0100	

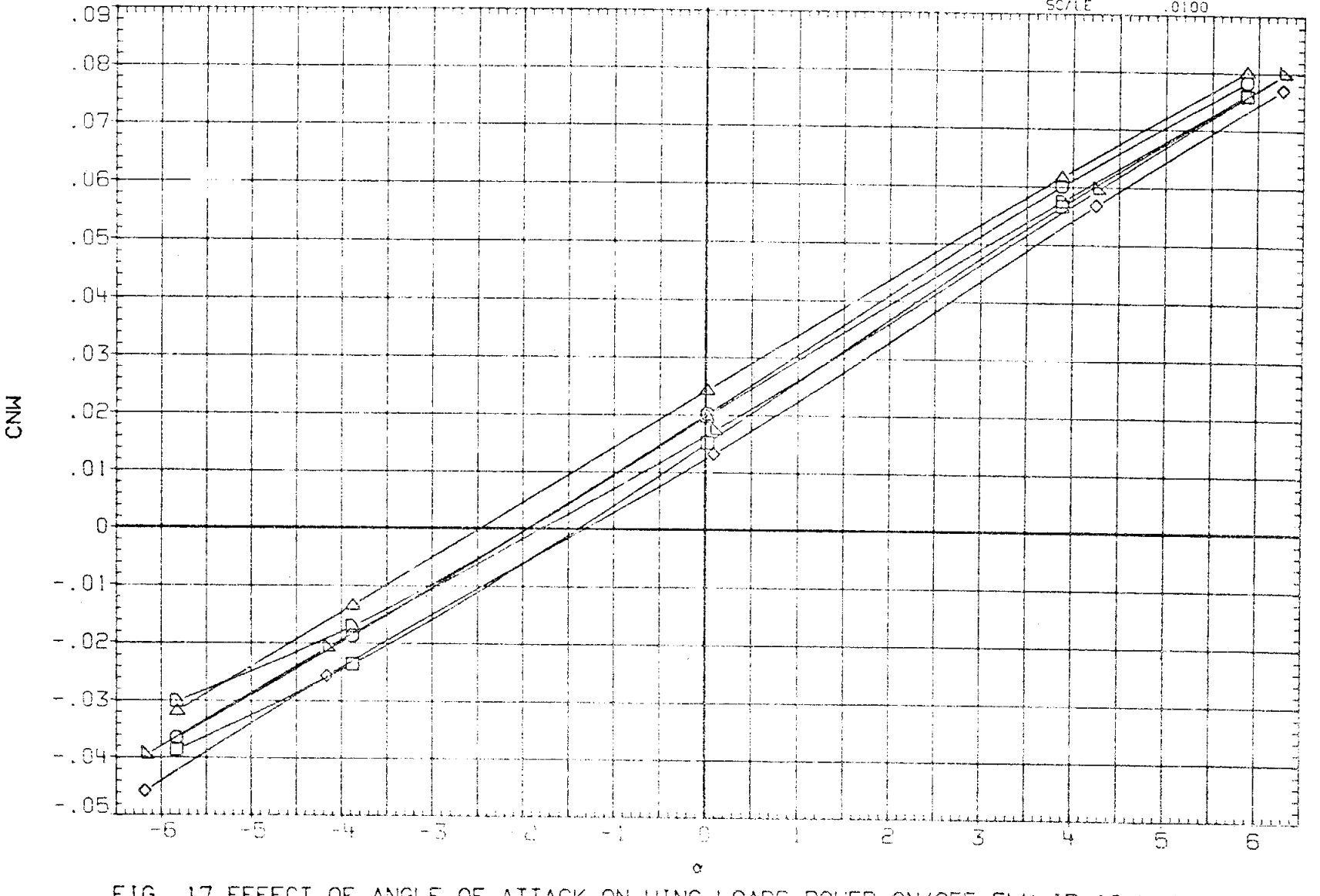

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS.POWER ON/OFF,ELV-IB=10,MACH=1.8

(A)BETA = -4.08

DATA SET	SYMBOL	CONFIGURATION			ELV IB	ELV OB	MACH	SRSPR	SSMEPR	REFERENCE INFORMATION		
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799	XMRP	1075.6800	IN. XO
R3D035	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102	YMRP	.0000	IN. YO
R3D039	□	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

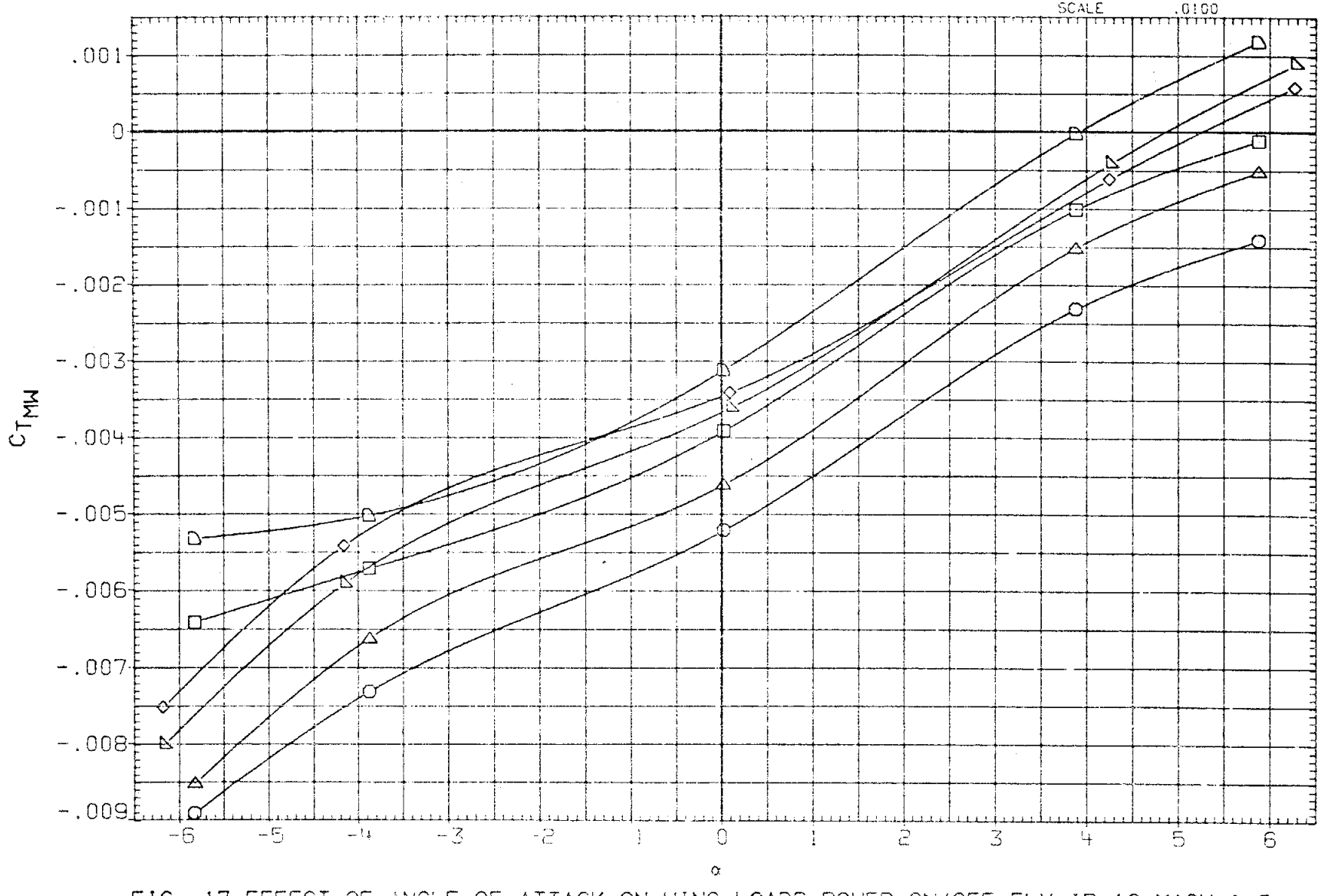

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(A) BETA = -4.08 DATE 17 OCT 78 PAGE 47

DATA SET	SYMBOL	CONFIGURATION			
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D035	▽	IA138 AMES 246-1-97	OTS	POWER ON	
R3D039	⬠	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.800	.000	.000
10.000	-5.000	1.800	.000	.000
10.000	-7.000	1.800	.000	.000
10.000	-2.000	1.800	274.259	481.799
10.000	-5.000	1.800	274.113	481.102
10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

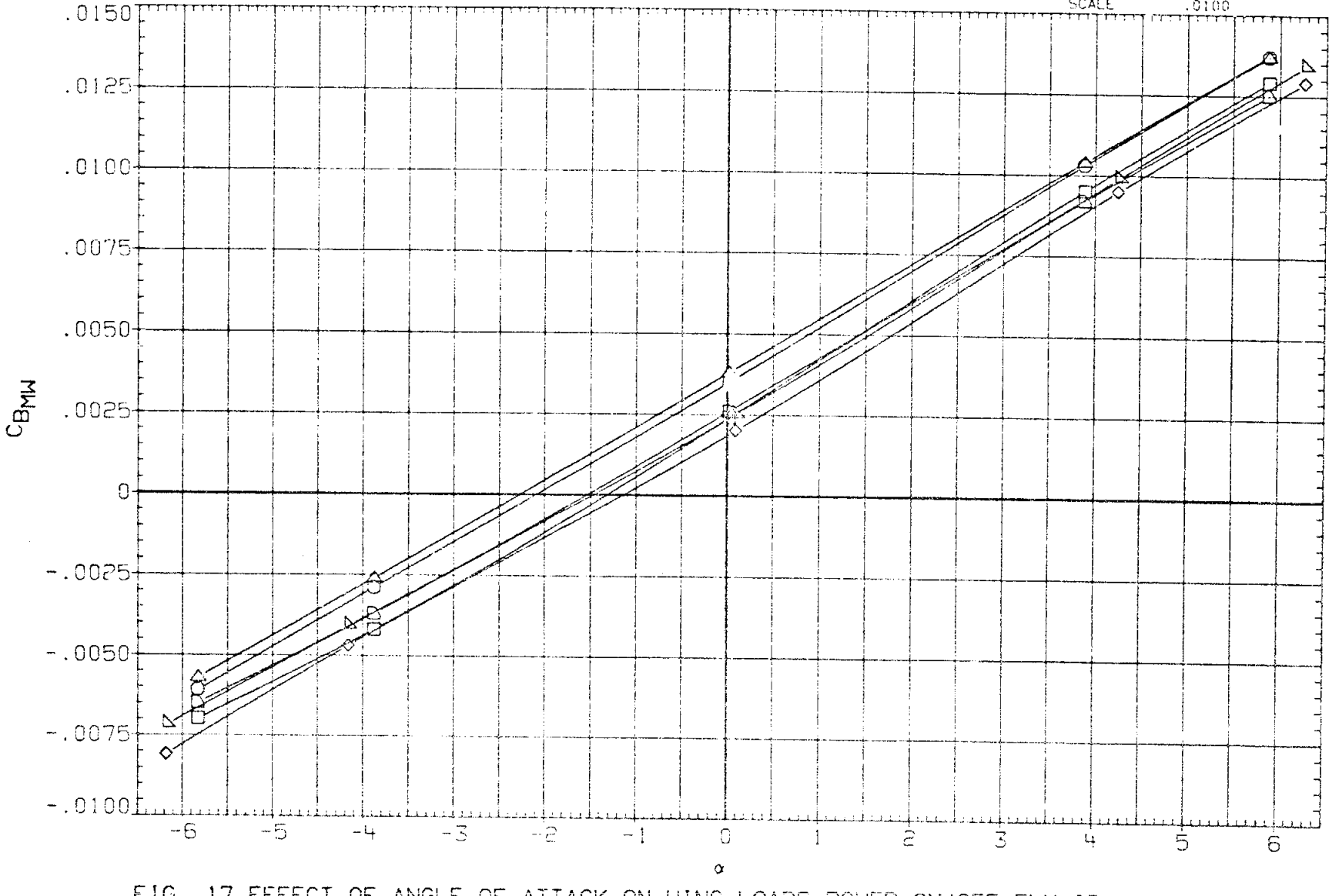

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(A) BETA = -4.08

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-6.000	1.800	.000	.000
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-6.000	1.800	274.259	481.799
R3D035	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102
R3D039	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

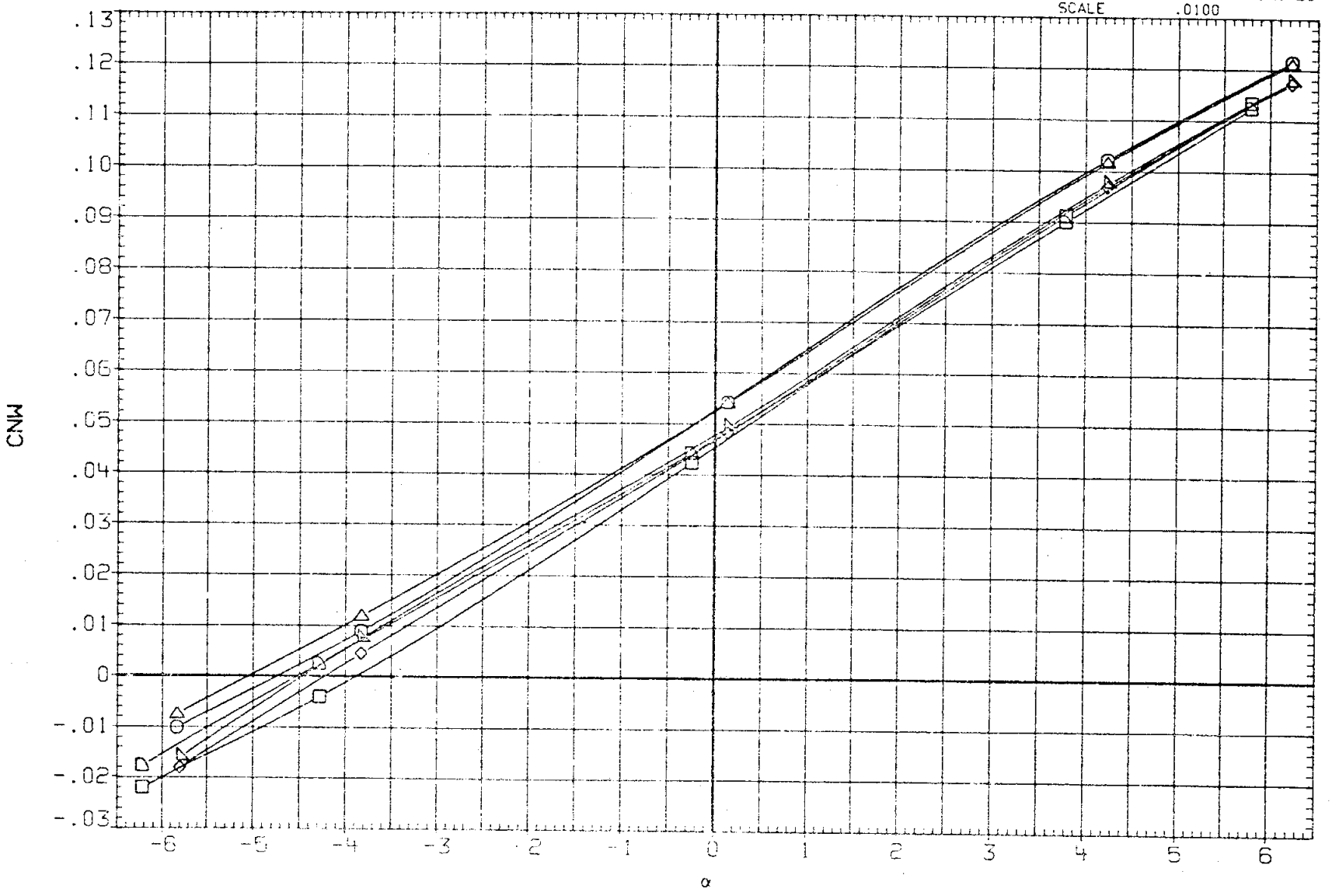

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(B) BETA = -.19

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799
R3D035	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102
R3D039	⬠	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

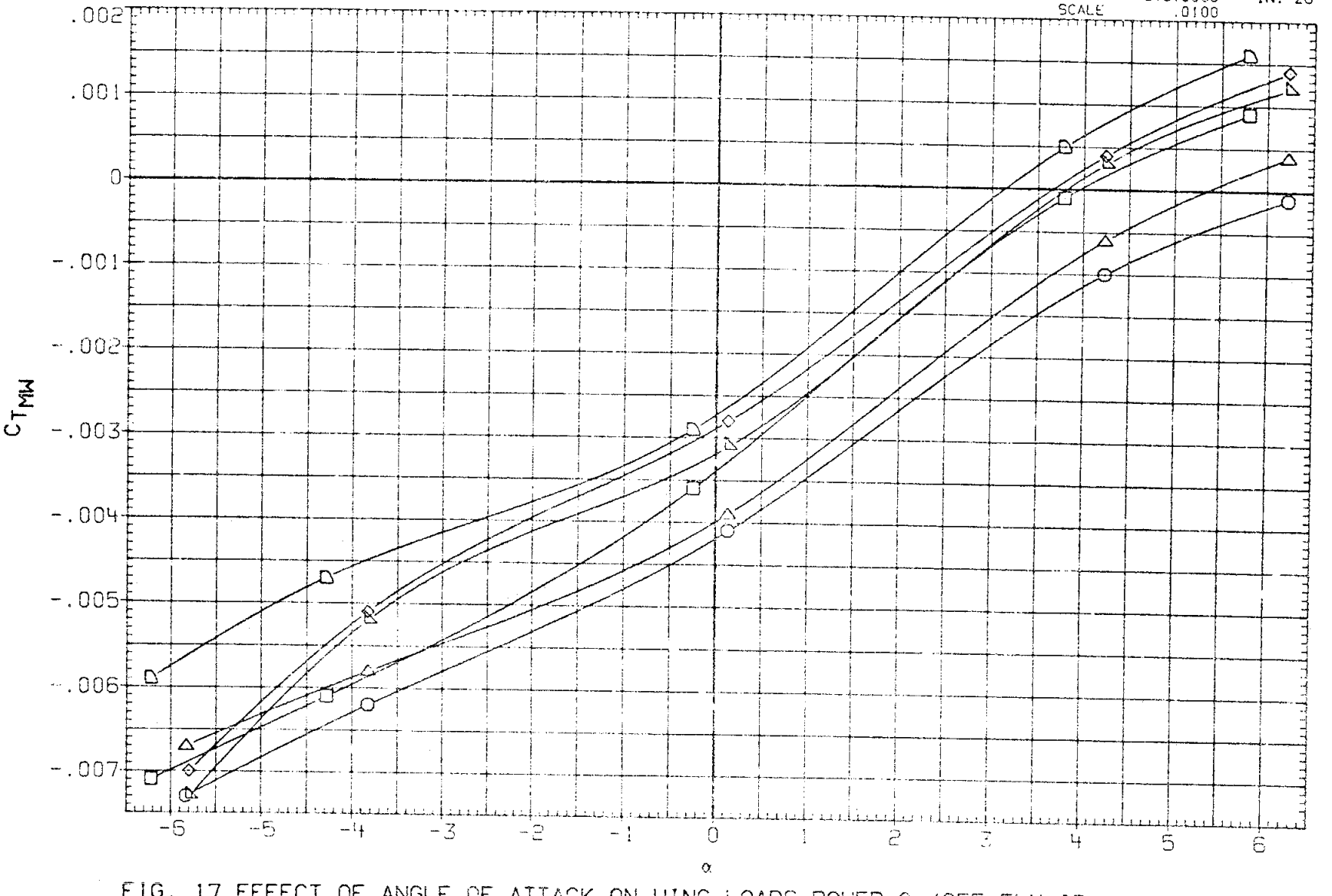

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(B)BETA = -.19

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000	BREF	936.6900	INCHES
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799	XMRP	1076.6800	IN. XO
R3D035	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102	YMRP	.0000	IN. YO
R3D039	▱	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

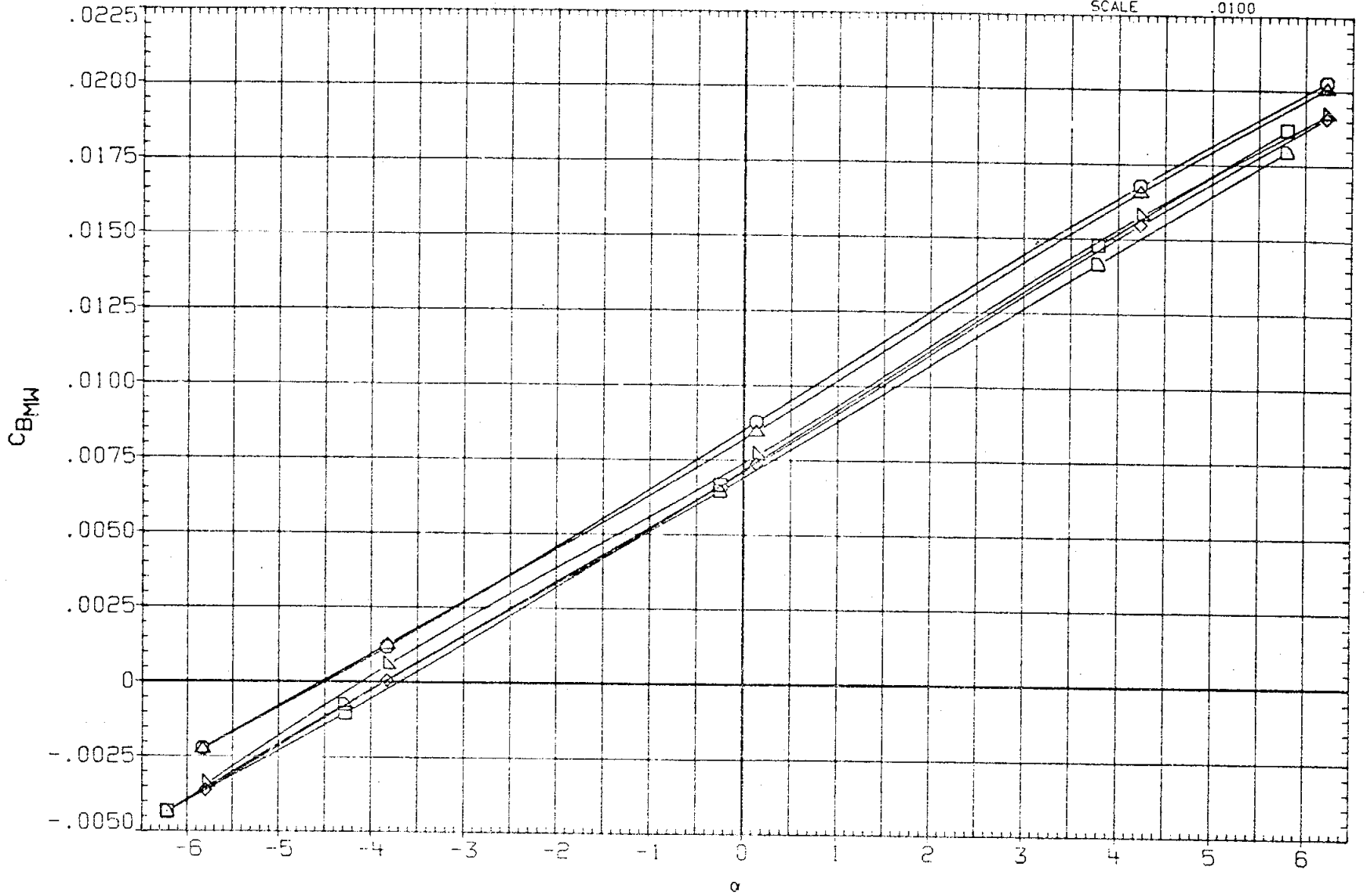

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(B)BETA = -.19

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799
R3D035	▽	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102
R3D039	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

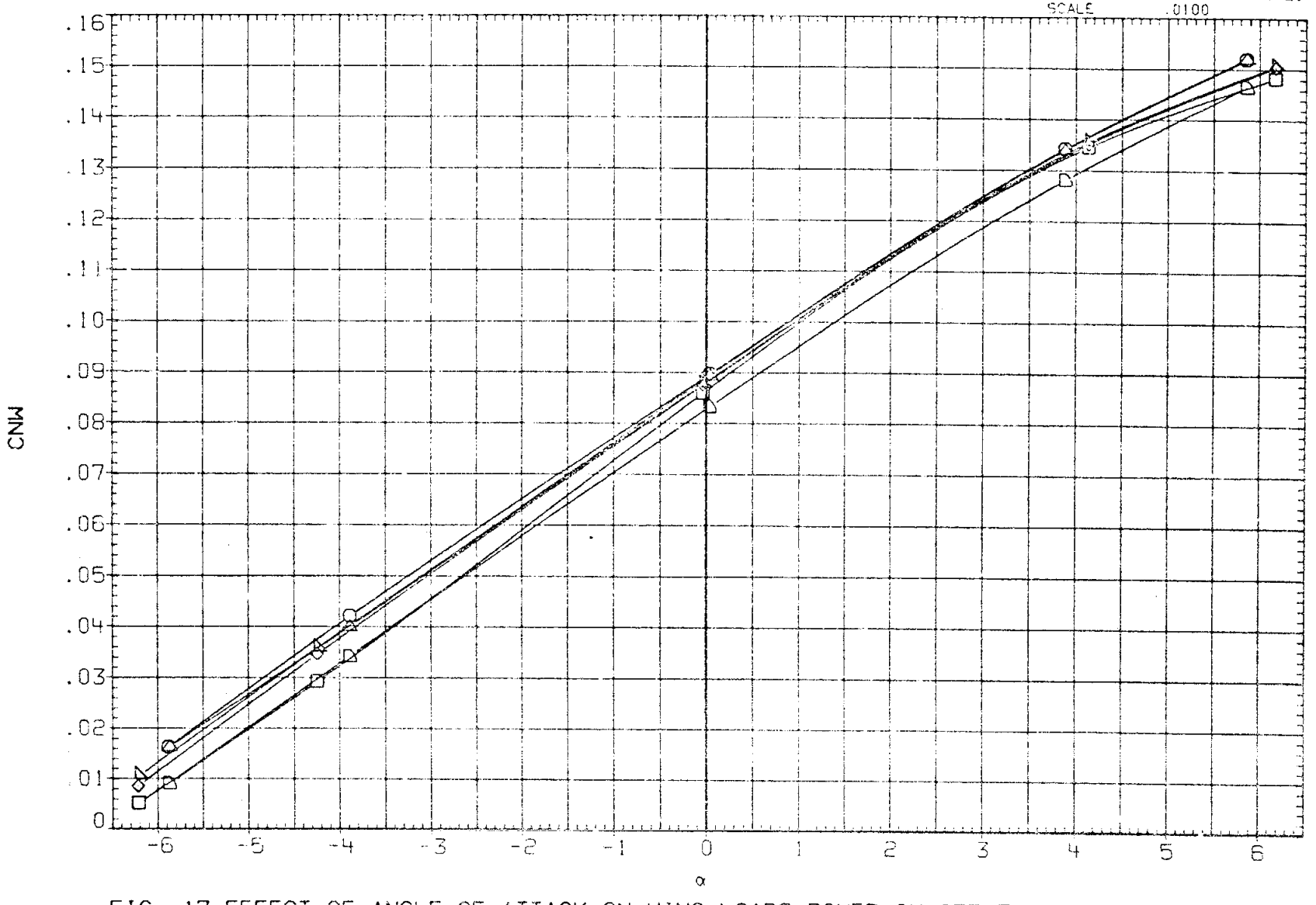

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(C)BETA = 3.71 DATE 17 OCT 78 PAGE 52

DATA SET	SYMBOL	CONFIGURATION			
R30002	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R30005	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R30009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R30032	△	IA138 AMES 246-1-97	OTS	POWER ON	
R30035	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R30039	▱	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
10.000	-2.000	1.800	.000	.000
10.000	-5.000	1.800	.000	.000
10.000	-7.000	1.800	.000	.000
10.000	-2.000	1.800	274.253	481.799
10.000	-5.000	1.800	274.113	481.102
10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

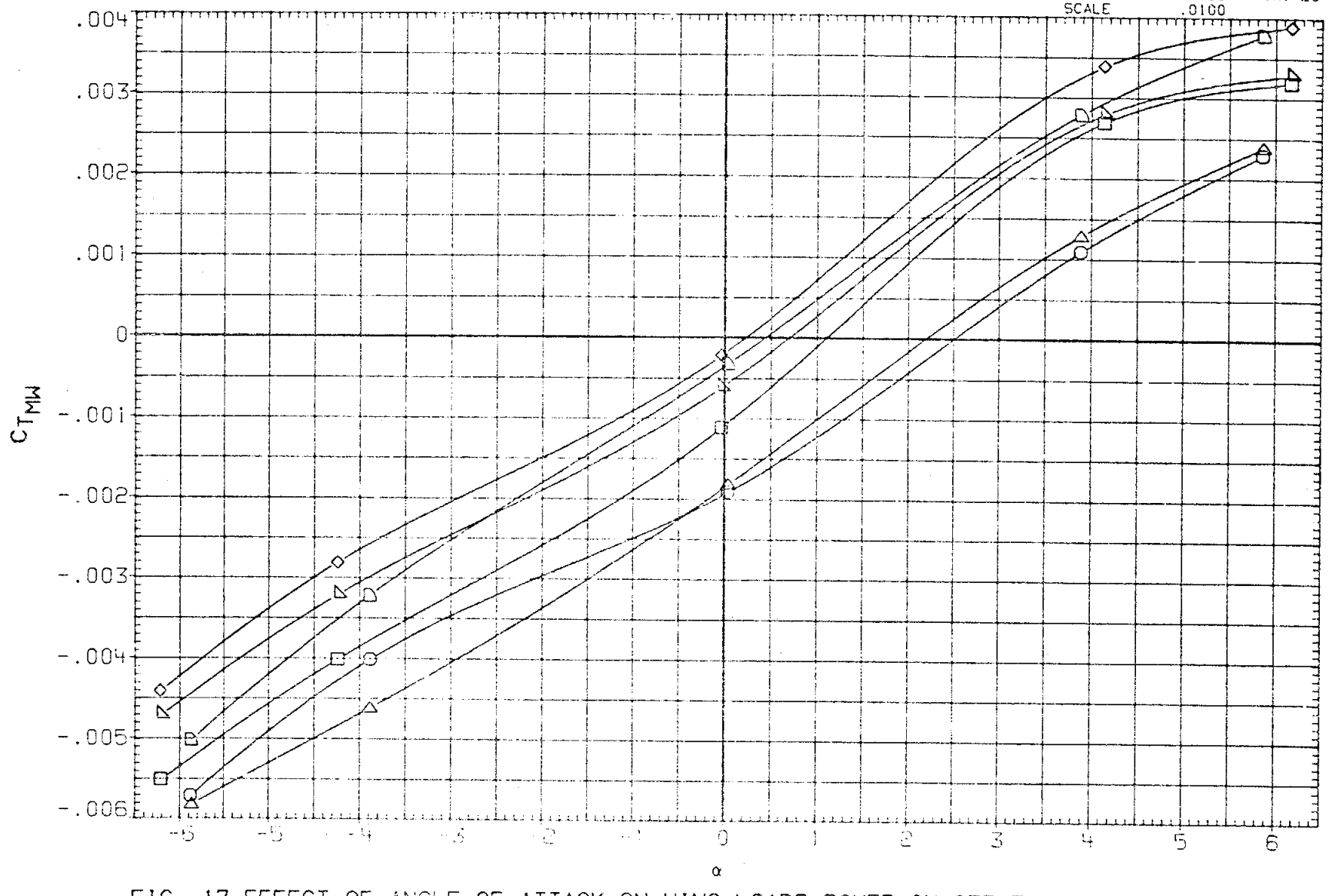

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(C)BETA = 3.71 DATE 17 OCT 89

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SPBPR	SSMEPR
R3D002	○	IA139 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	1.800	.000	.000
R3D005	□	IA139 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	1.800	.000	.000
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	1.800	.000	.000
R3D032	△	IA139 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	1.800	274.259	481.799
R3D035	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	1.800	274.113	481.102
R3D039	D	IA139 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6900	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

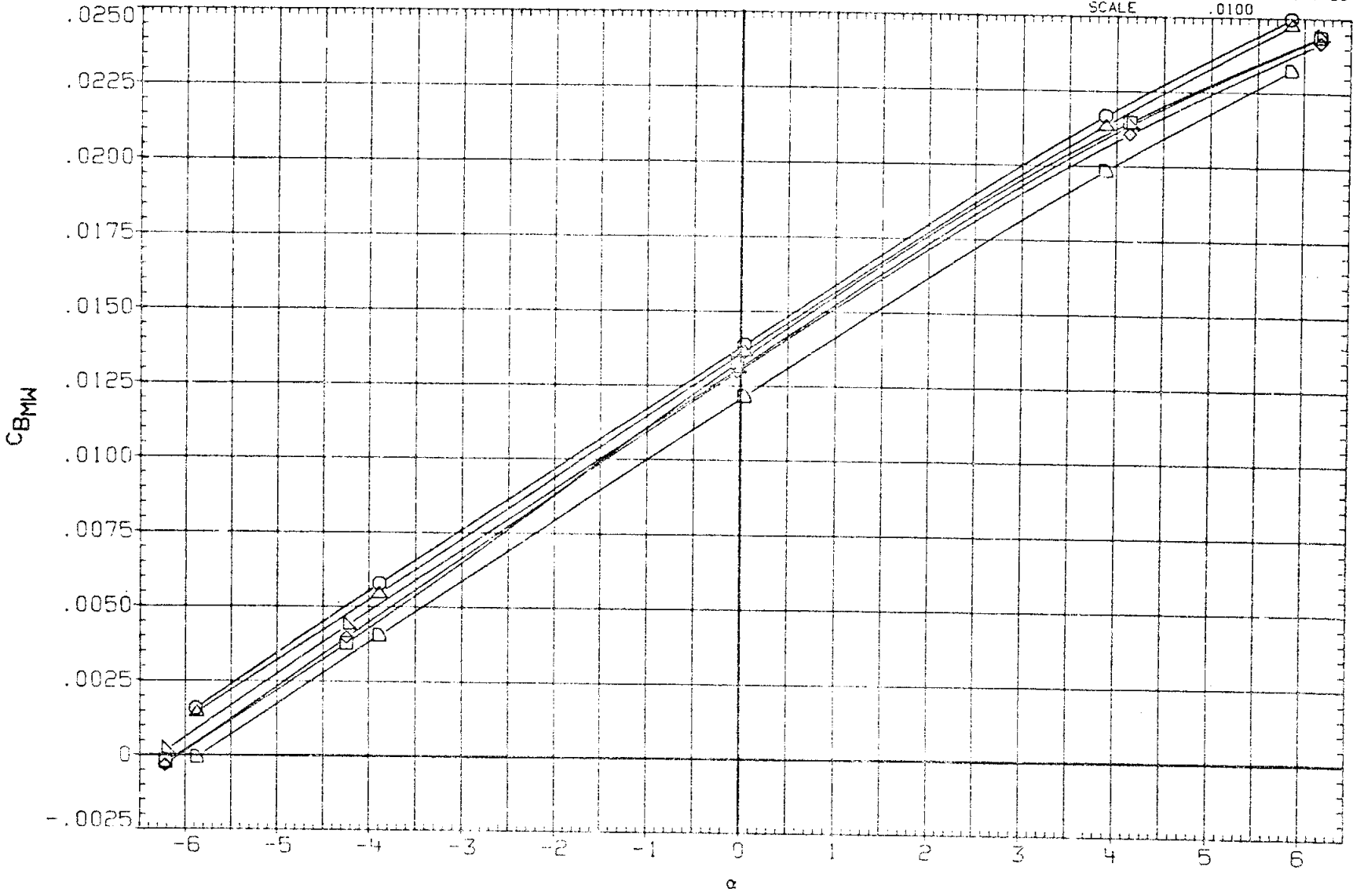

FIG. 17 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(C)BETA = 3.71

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D003	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.200	.000	.000	SREF	2690.0000	SQ.FT.
R3D006	□	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.200	.000	.000	LREF	474.8100	INCHES
R3D010	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-7.000	2.200	.000	.000	BREF	936.6800	INCHES
R3D033	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.200	464.703	745.648	XMRP	1076.6800	IN. XO
R3D036	⧋	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.200	462.854	744.415	YMRP	.0000	IN. YO
R3D040	▱	IA138 AMES 246-1-97 OTS POWER ON	10.000	-7.000	2.200	463.681	738.864	ZMRP	375.0000	IN. ZO
								SCALE	.0100	

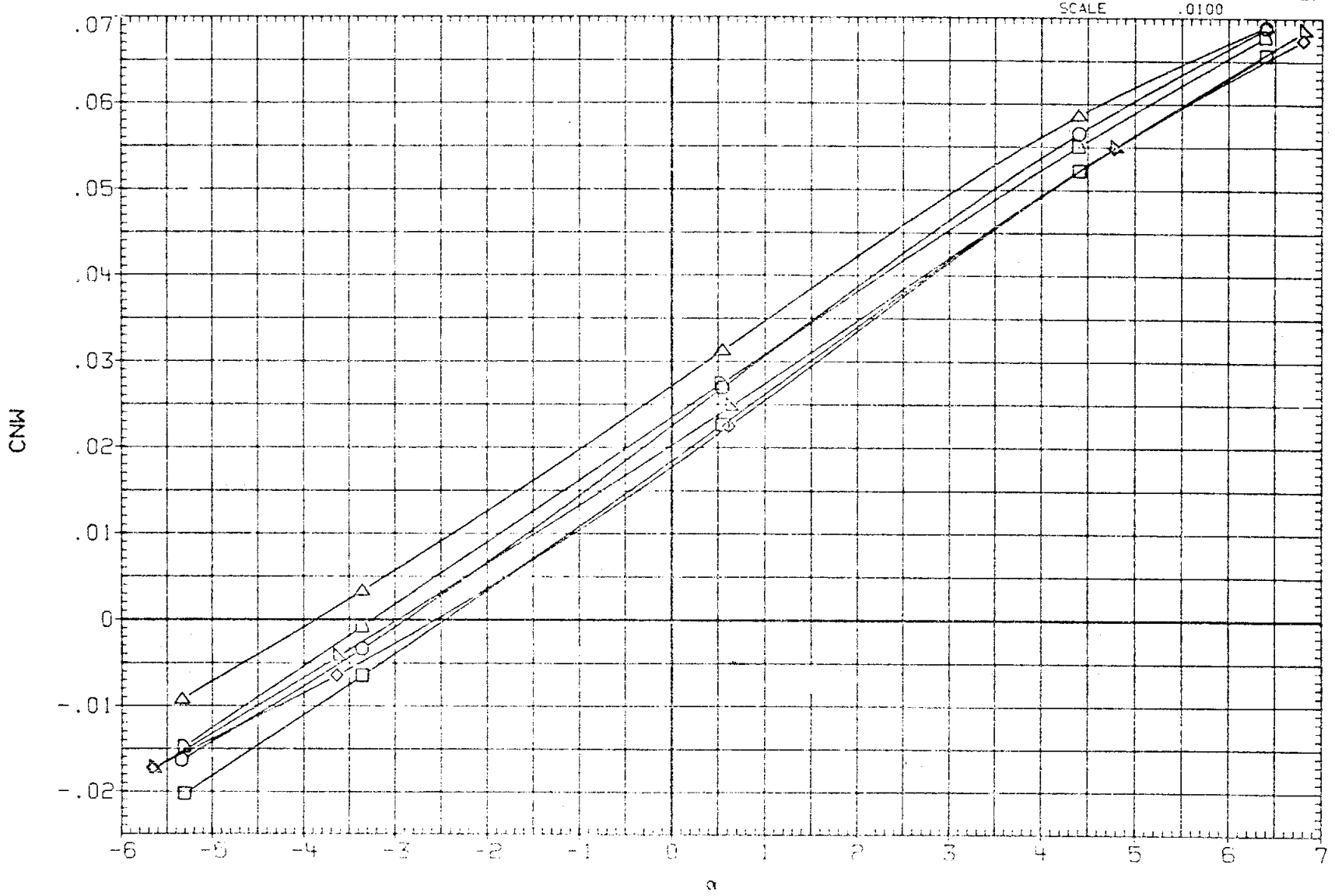

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(A) BETA = -4.08

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D003	○	IA168 AMES 246-1-97	OTS	POWER OFF
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D036	▷	IA138 AMES 246-1-97	OTS	POWER ON
R3D040	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.200	.000	.000
10.000	-5.000	2.200	.000	.000
10.000	-7.000	2.200	.000	.000
10.000	-2.000	2.200	464.703	745.648
10.000	-5.000	2.200	462.954	744.415
10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

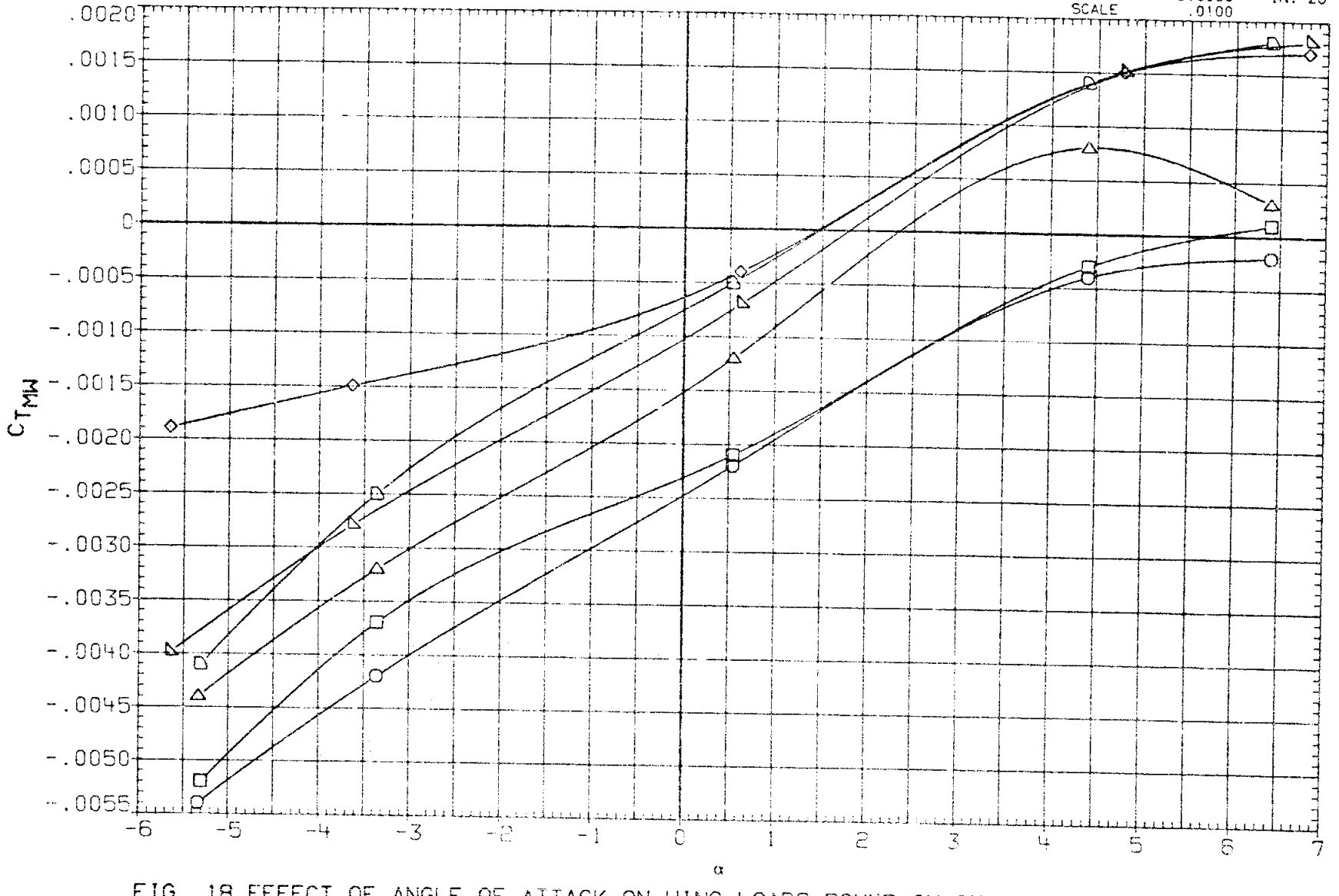

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(A) BETA = -4.08

DATE 17 OCT 79

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.200	.000	.000	SREF	2690.0000	SQ.FT.
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.200	.000	.000	LREF	474.8100	INCHES
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	2.200	.000	.000	BREF	936.6800	INCHES
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.200	464.703	745.648	XMRP	1076.6800	IN. XO
R3D036	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.200	462.854	744.415	YMRP	.0000	IN. YO
R3D040	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	2.200	463.681	738.664	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

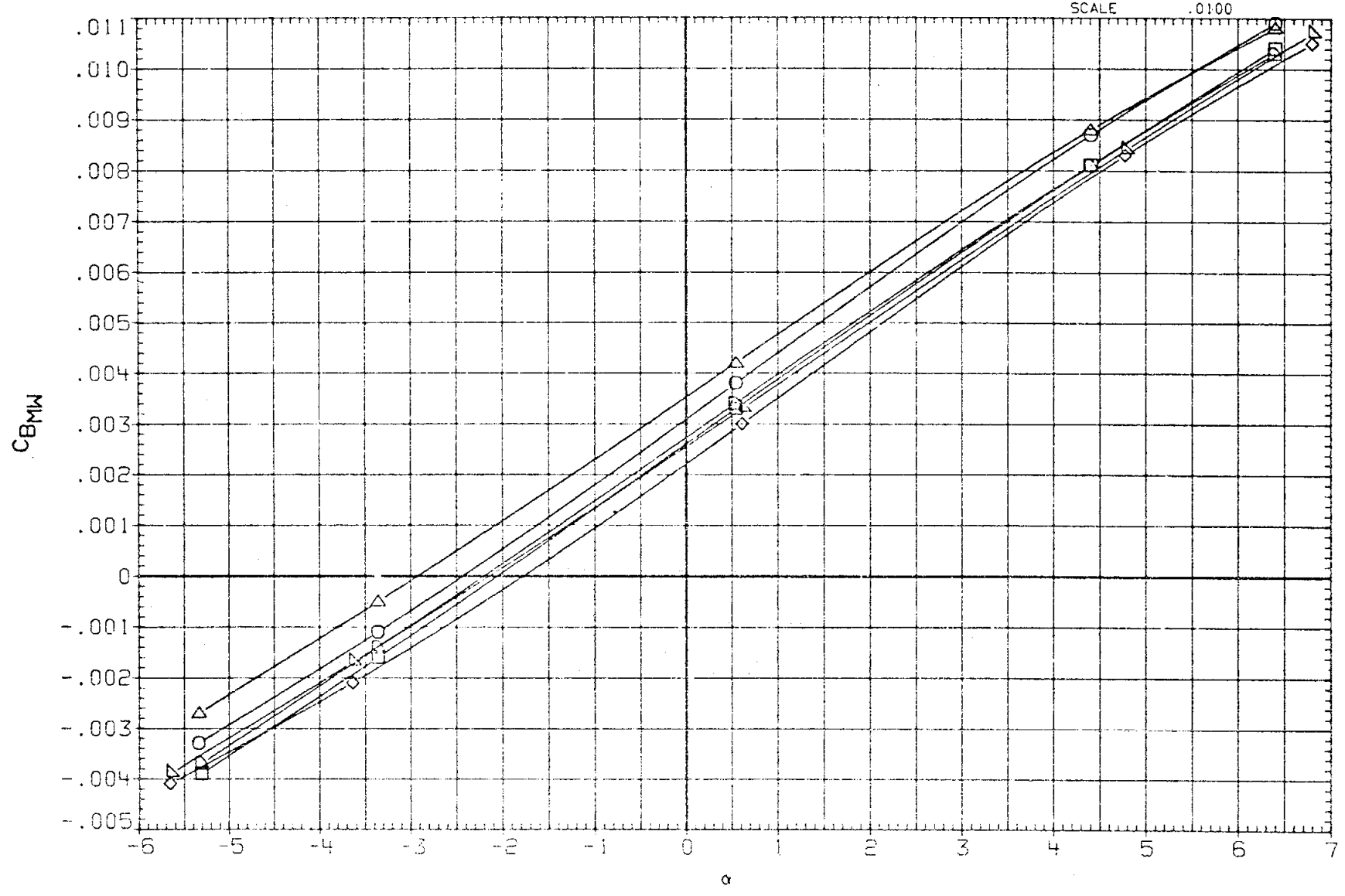

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.200	.000	.000
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.200	.000	.000
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	2.200	.000	.000
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.200	464.703	745.648
R3D036	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.200	462.854	744.415
R3D040	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

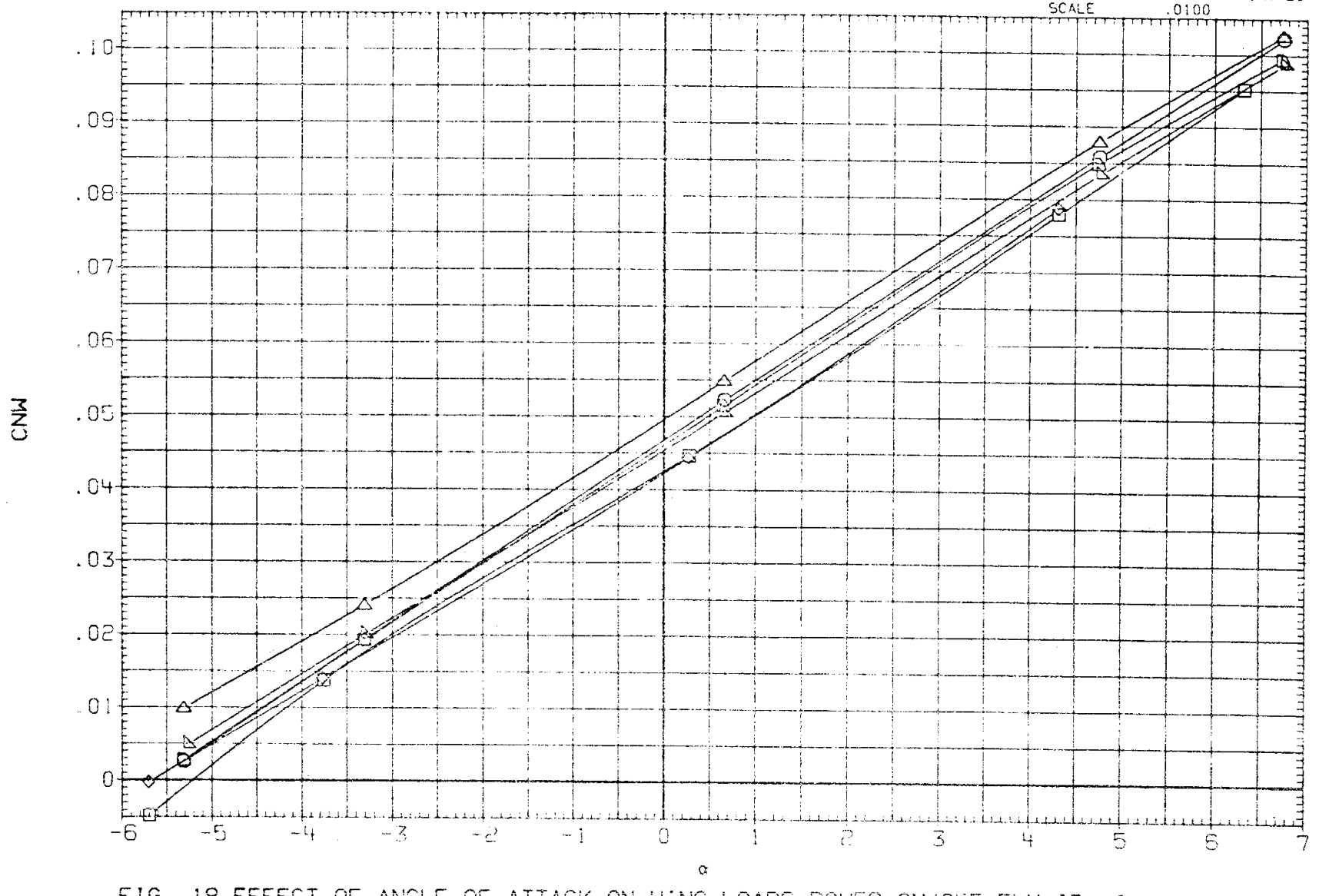

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(B)BETA = -.18

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D003	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.200	.000	.000
R3D006	□	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.200	.000	.000
R3D010	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-7.000	2.200	.000	.000
R3D033	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.200	464.703	745.648
R3D036	◁	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.200	462.854	744.415
R3D040	▷	IA138 AMES 246-1-97 OTS POWER ON	10.000	-7.000	2.200	463.691	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

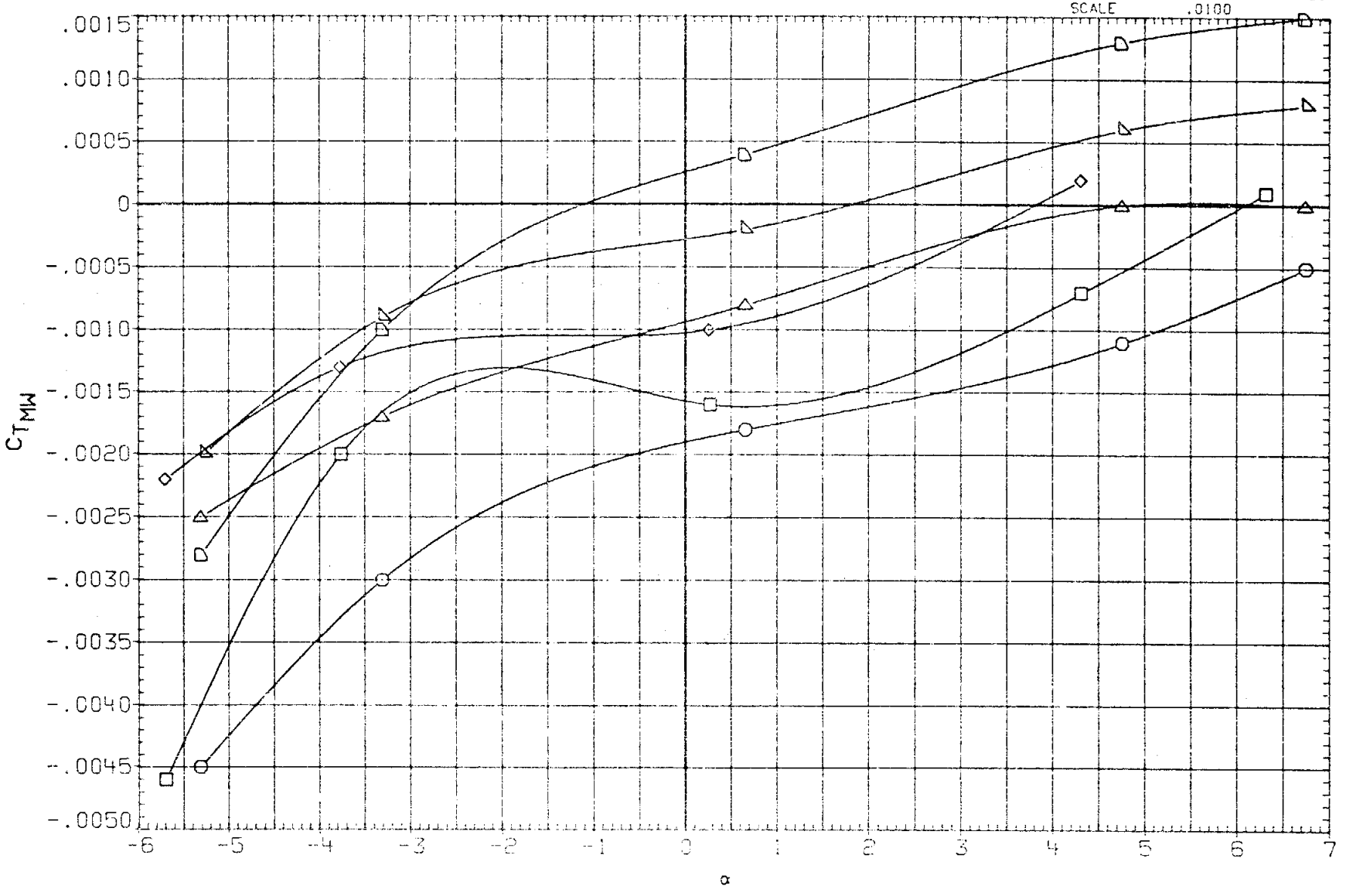

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(B)BETA = -.18

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-2.000	2.200	.000	.000
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-5.000	2.200	.000	.000
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-7.000	2.200	.000	.000
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-2.000	2.200	464.703	745.648
R3D036	▽	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-5.000	2.200	462.854	744.415
R3D040	▷	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.5800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

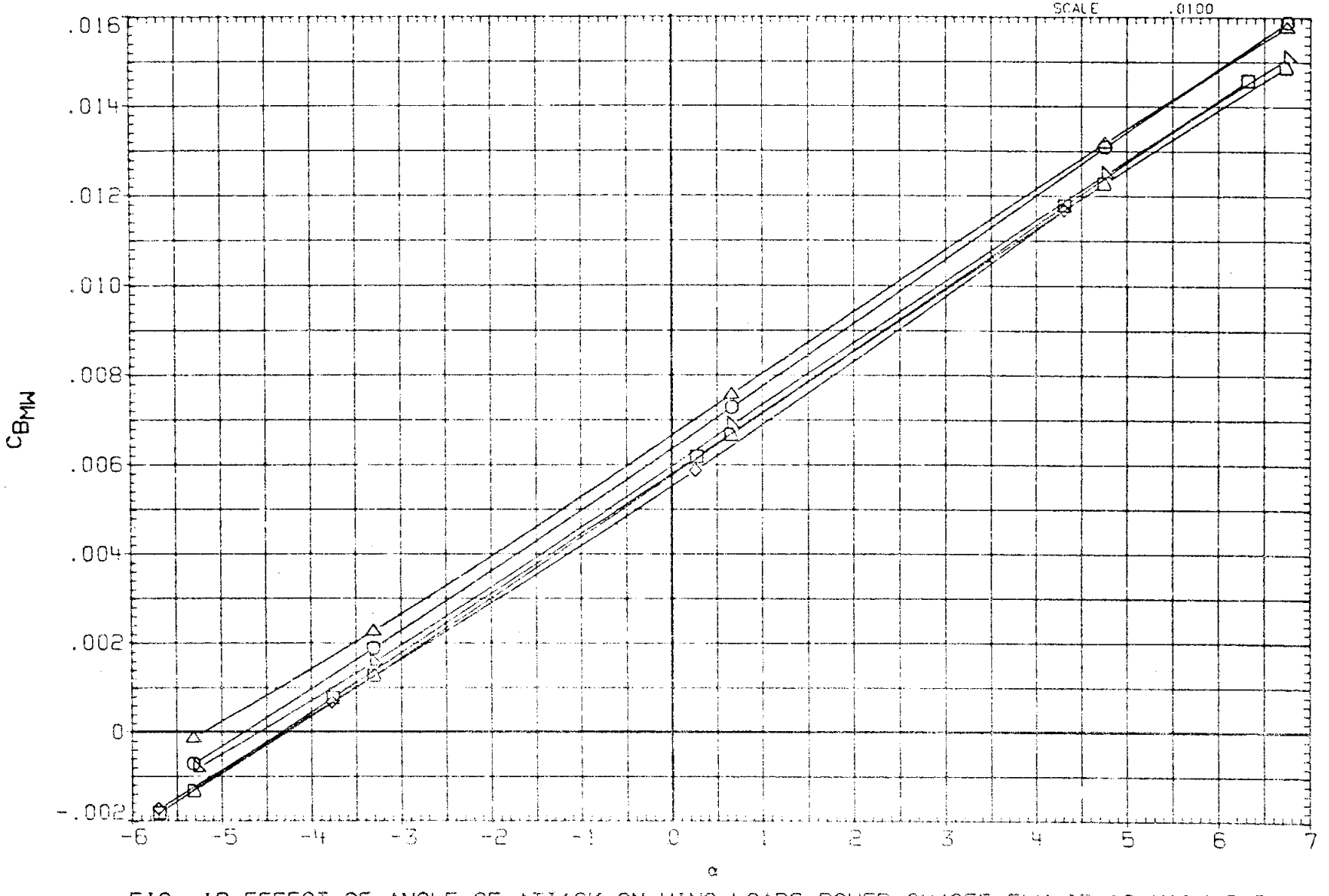

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRDFR	SSMFR
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.200	.000	.000
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.200	.000	.000
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-7.000	2.200	.000	.000
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.200	464.733	745.648
R3D036	▽	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.200	462.854	744.415
R3D040	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-7.000	2.200	463.681	733.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

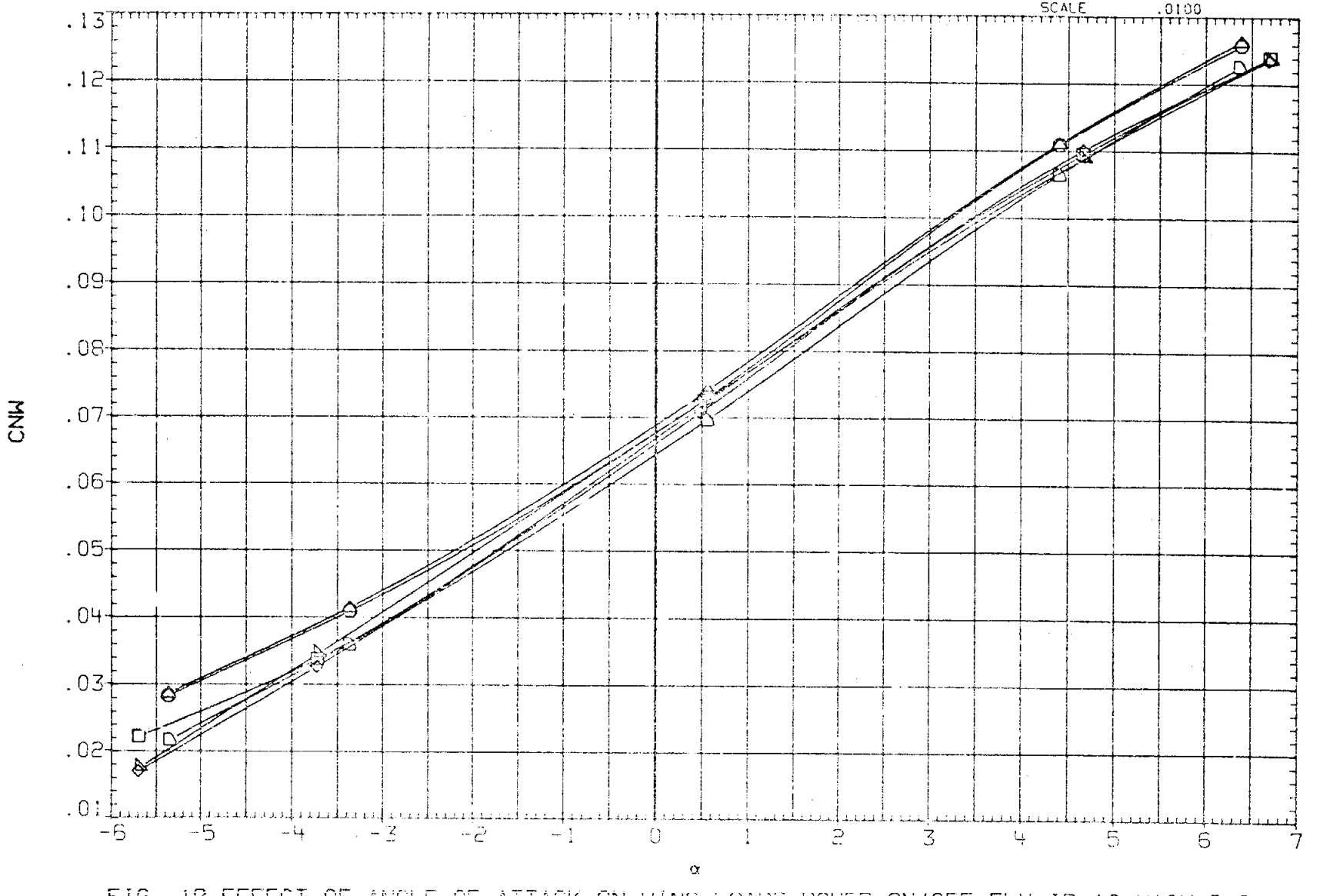

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

DATA SET	SYMBOL	CONFIGURATION			
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D036	▷	IA138 AMES 246-1-97	OTS	POWER ON
R3D040	▽	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SPSPR	SSMEPR
10.000	-2.000	2.200	.000	.000
10.000	-5.000	2.200	.000	.000
10.000	-7.000	2.200	.000	.000
10.000	-2.000	2.200	464.733	745.648
10.000	-5.000	2.200	462.854	744.415
10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

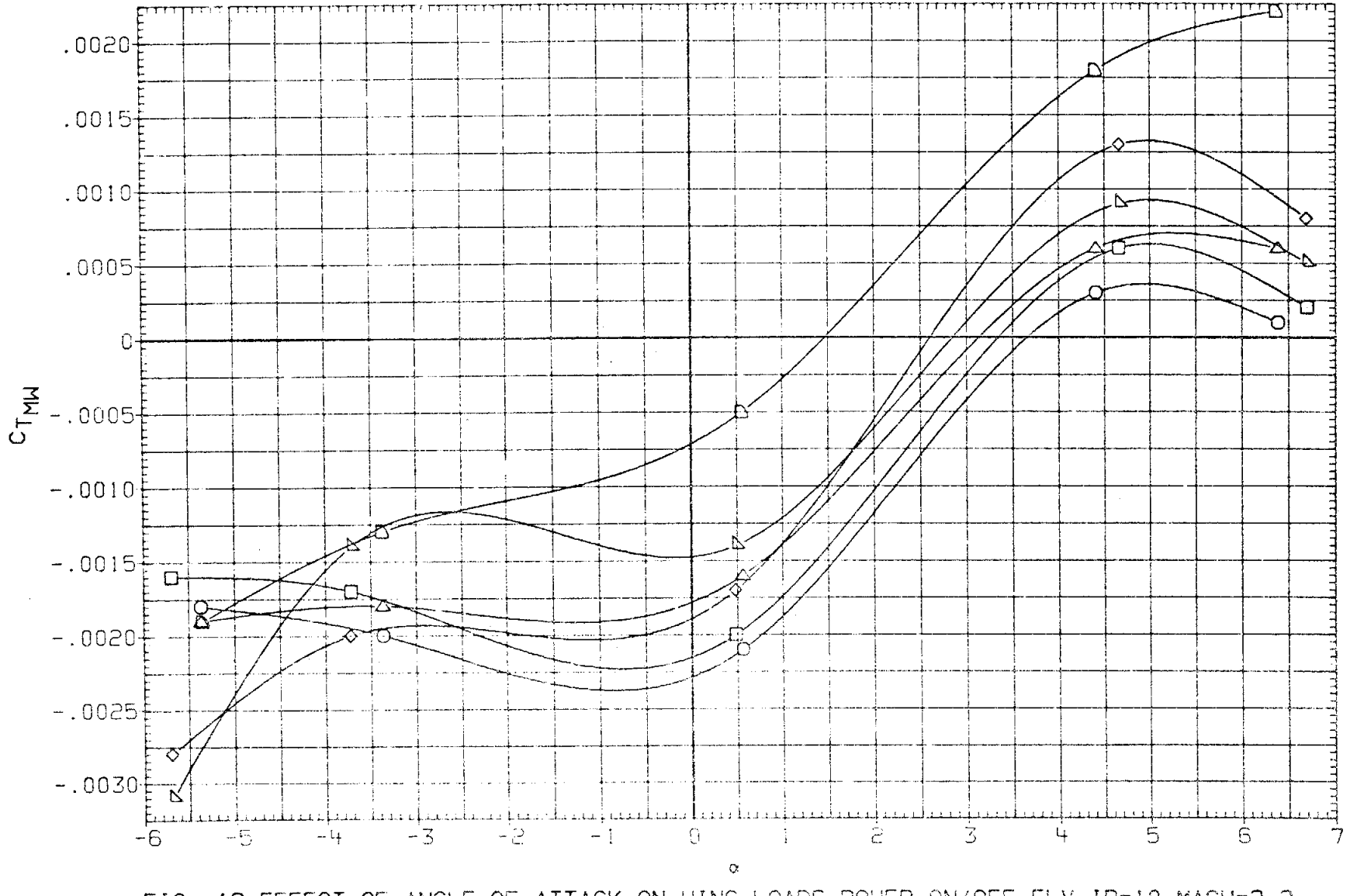

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(C)BETA = 3.73 DATE 17 OCT 78 PAGE 62

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-2.000	2.200	.000	.000	SREF	2690.0000	SQ.FT.
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-5.000	2.200	.000	.000	LREF	474.8100	INCHES
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-7.000	2.200	.000	.000	BREF	936.6800	INCHES
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-2.000	2.200	464.703	745.648	XMRP	1076.6800	IN. XO
R3D036	◁	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-5.000	2.200	462.854	744.415	YMRP	.0000	IN. YO
R3D040	▷	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-7.000	2.200	463.681	739.664	ZMRP	375.0000	IN. ZO
											SCALE	.0100	

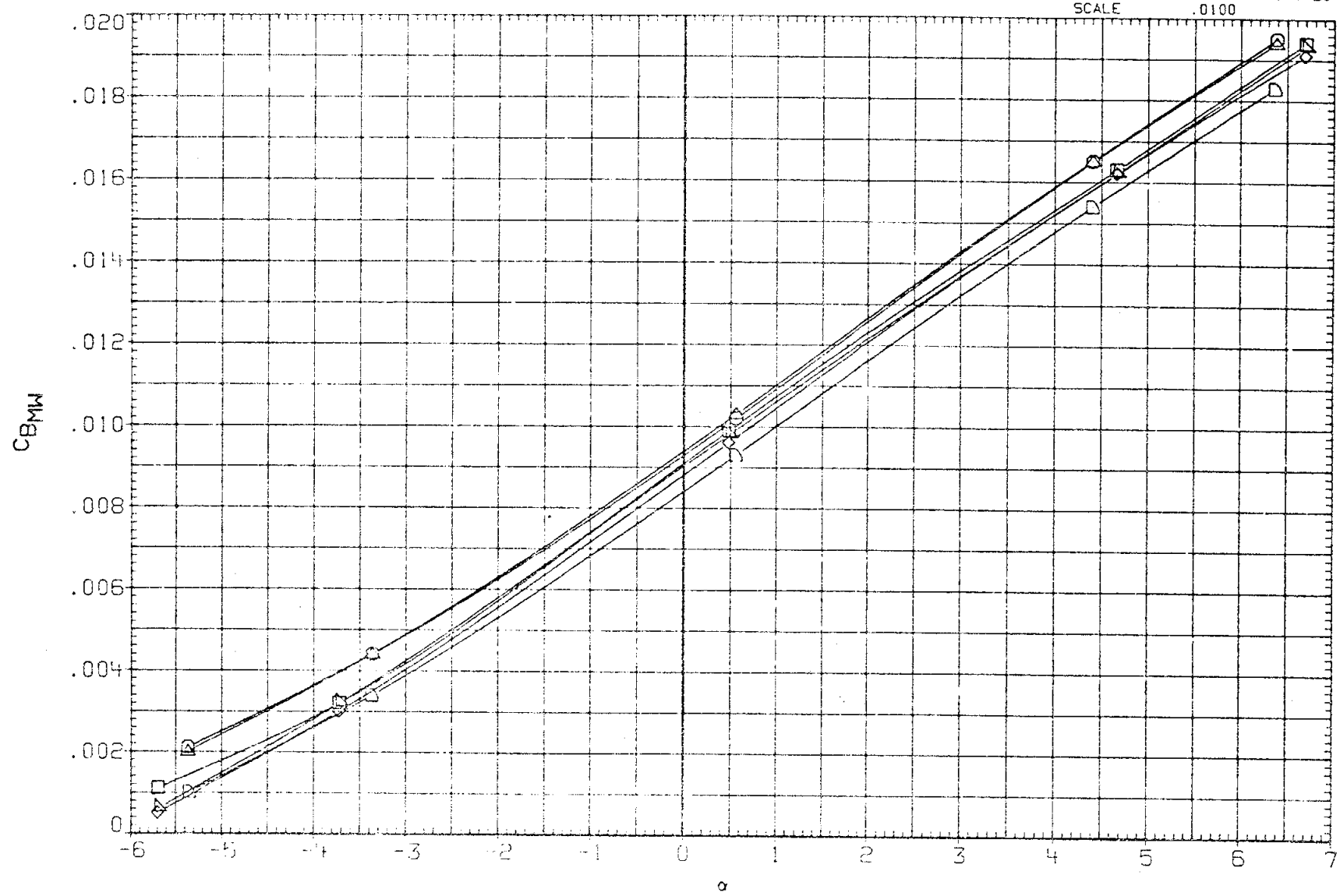

FIG. 18 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(C) BETA = 3.73 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D037	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D041	D	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.500	.000	.000
10.000	-5.000	2.500	.000	.000
10.000	2.000	2.500	.000	.000
10.000	-2.000	2.500	750.050	1331.316
10.000	-5.000	2.500	747.175	1328.316
10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

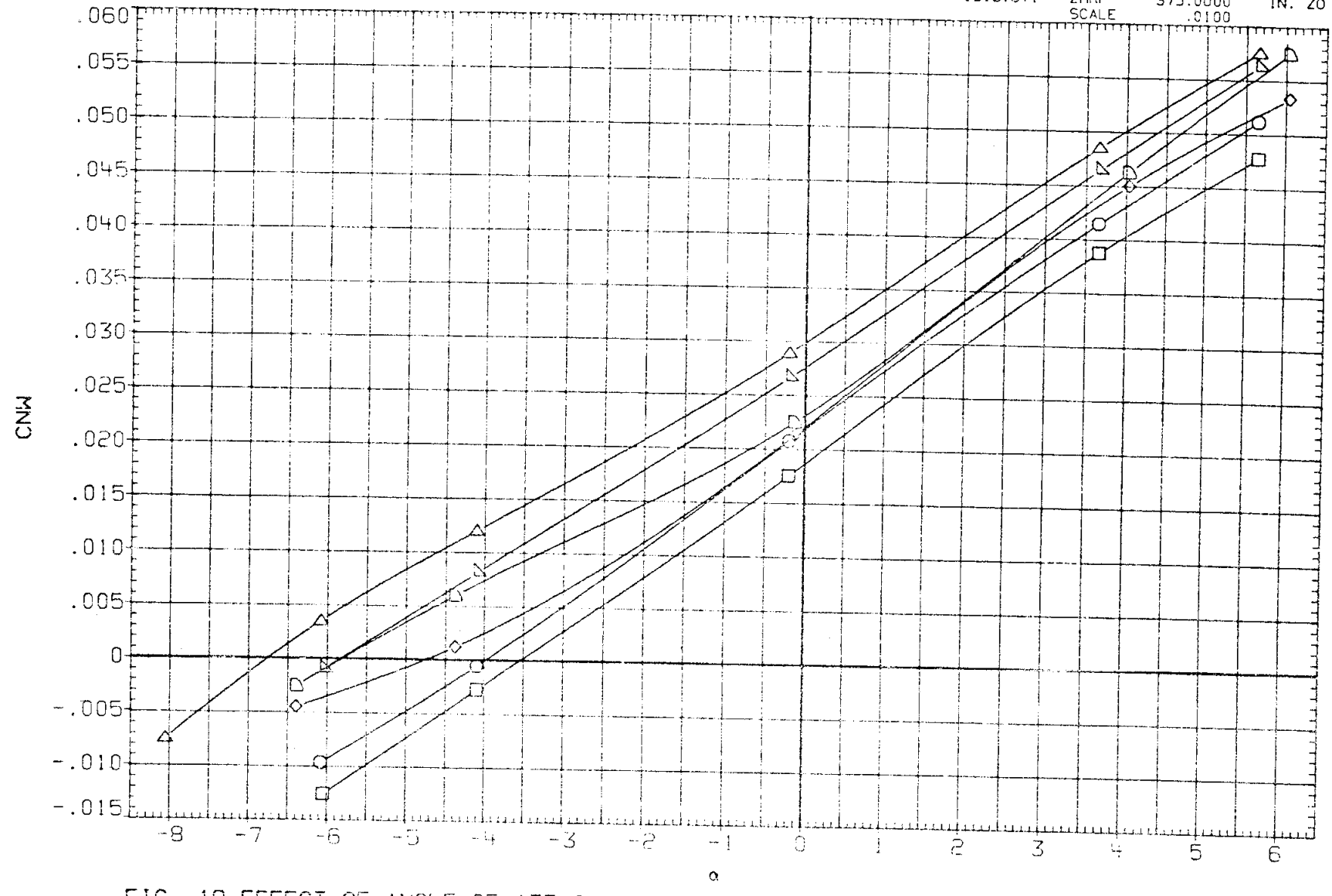

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R30004	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.500	.000	.000
R30007	□	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.500	.000	.000
R30011	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	2.000	2.500	.000	.000
R30034	⊿	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.500	750.059	1331.316
R30037	⊿	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.500	747.175	1328.316
R30041	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	2.000	2.500	742.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6000	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

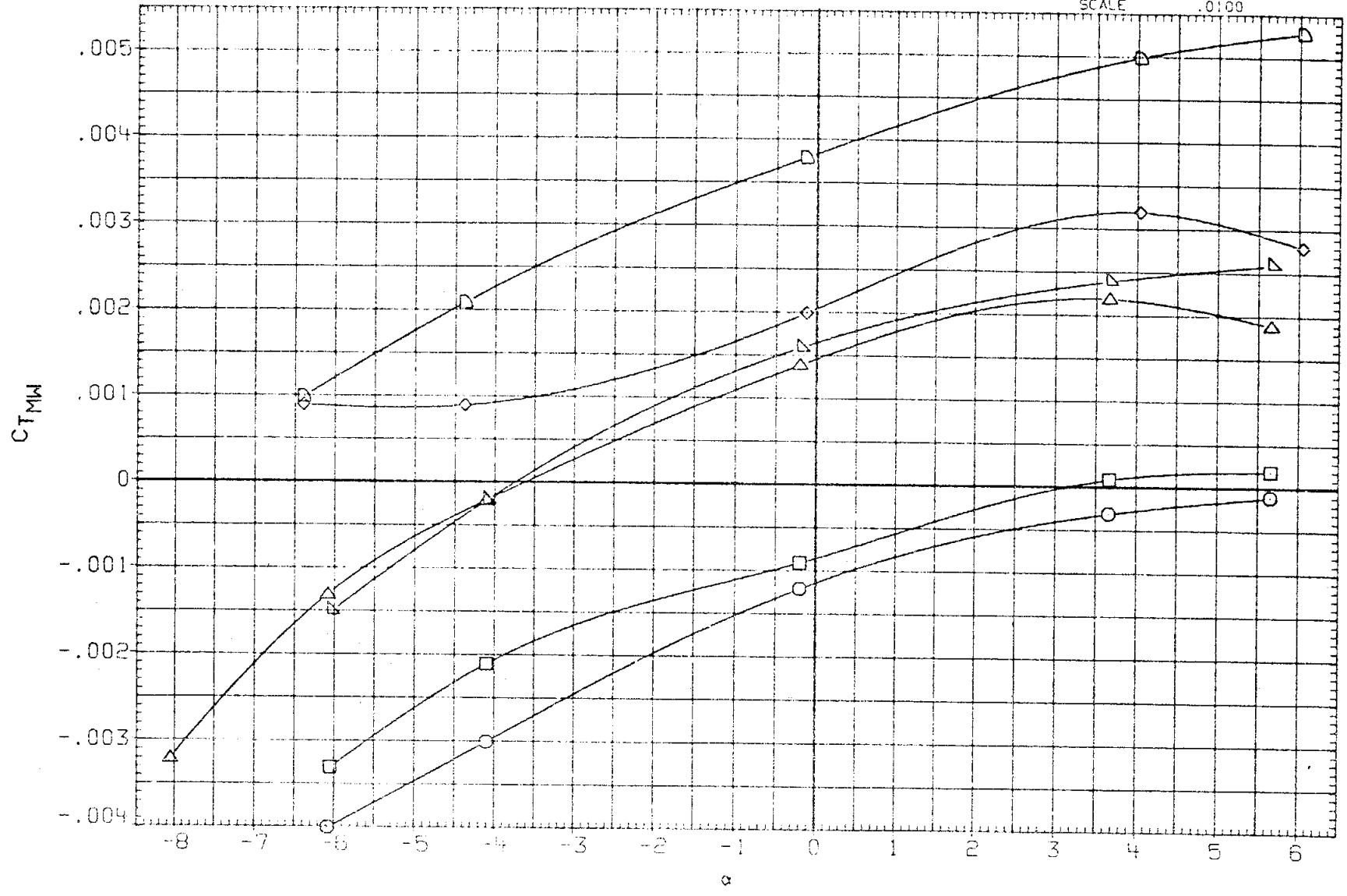

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(A) BETA = -4.02

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D004	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.500	.000	.000
R3D007	□	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.500	.000	.000
R3D011	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	2.000	2.500	.000	.000
R3D034	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.500	750.050	1331.316
R3D037	◁	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.500	747.175	1328.316
R3D041	▷	IA138 AMES 246-1-97 OTS POWER ON	10.000	2.000	2.500	749.014	1316.971

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1075.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

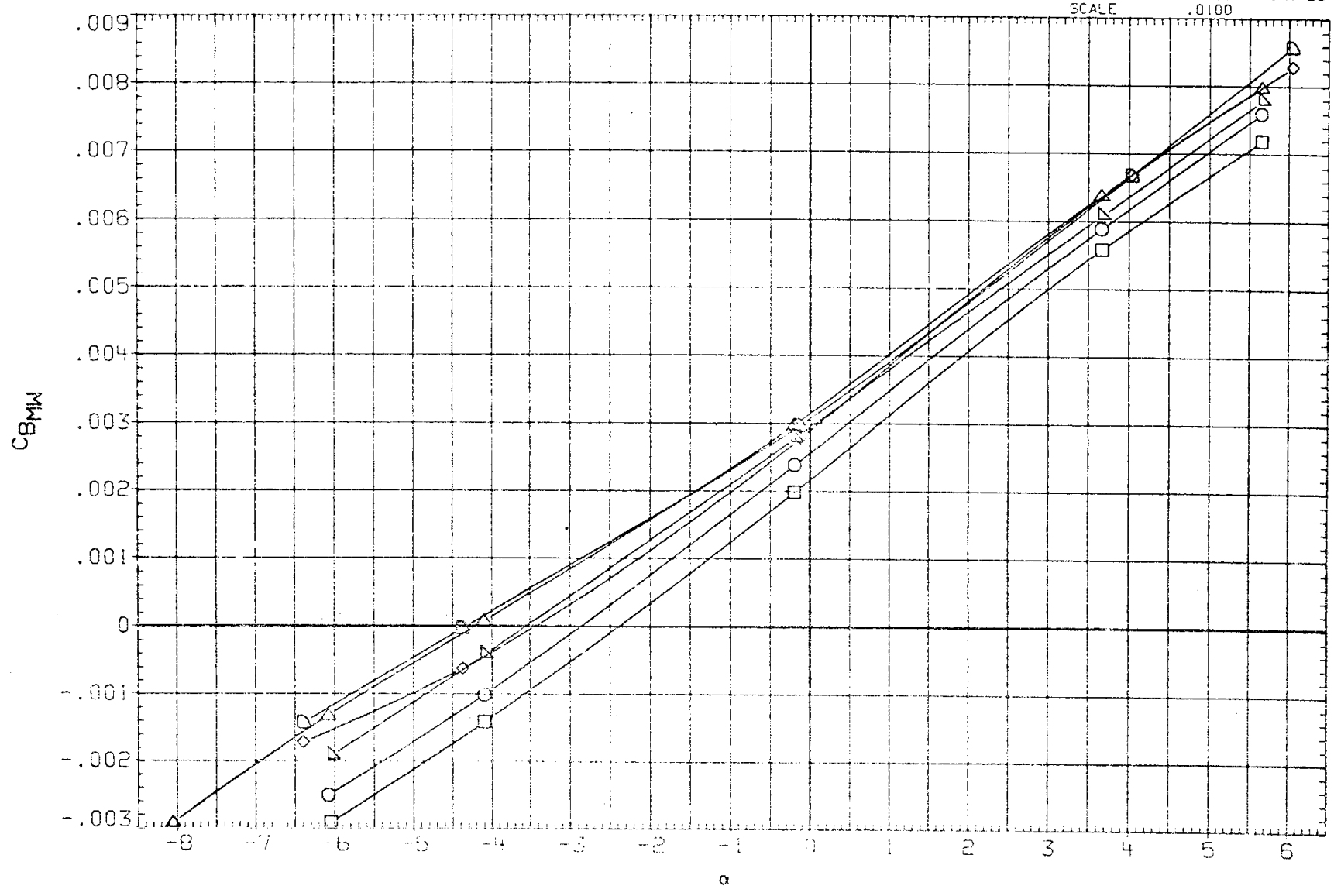

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D004	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.500	.000	.000	SREF	2690.0000	SQ.FT.
R3D007	□	IA139 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D011	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D034	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.500	750.050	1331.316	XMRP	1076.6800	IN. XO
R3D037	▽	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.500	747.175	1328.316	YMRP	.0000	IN. YO
R3D041	▷	IA138 AMES 246-1-97 OTS POWER ON	10.000	2.000	2.500	749.014	1316.971	ZMRP	375.0000	IN. ZO
								SCALE	.0100	

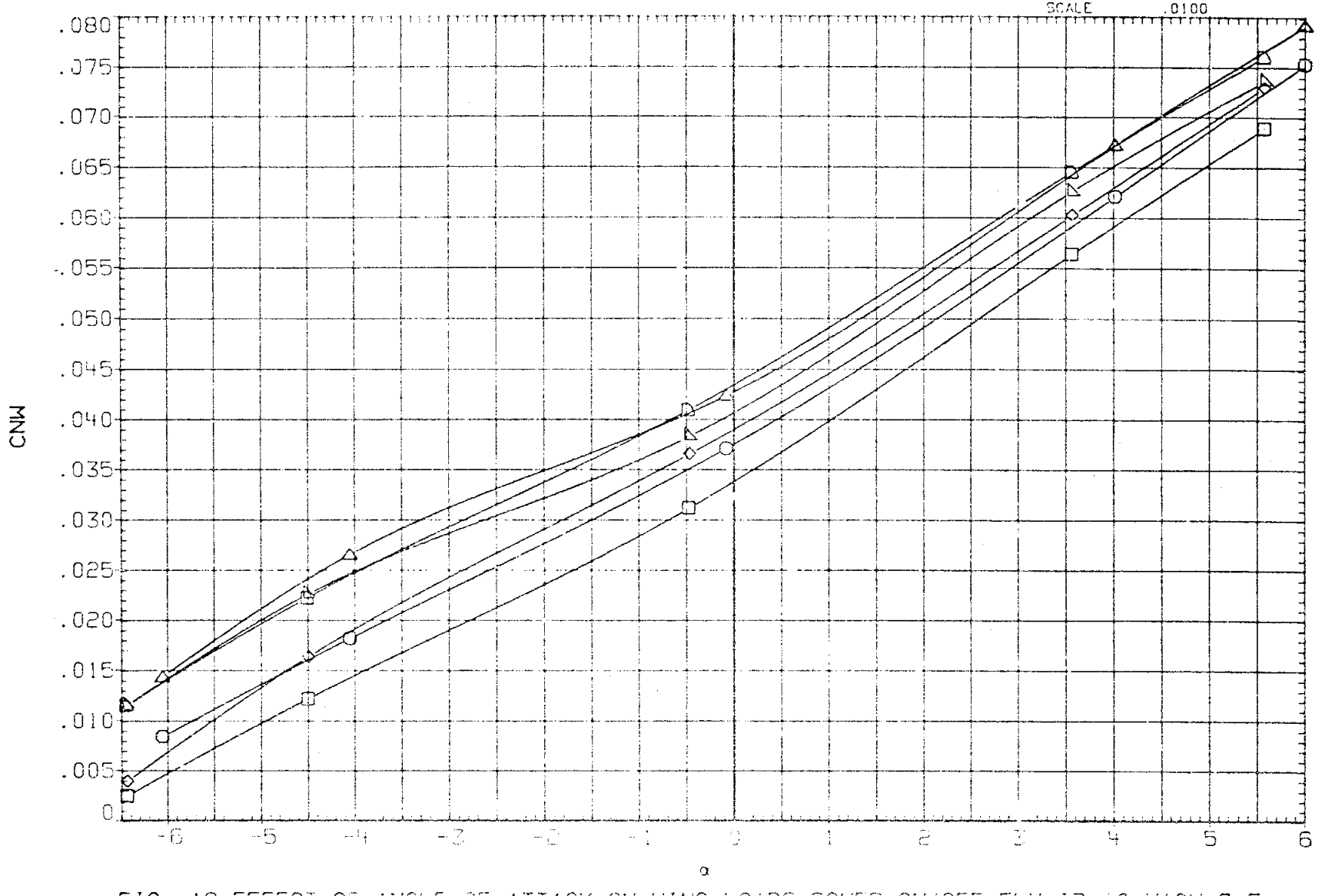

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-2.000	2.500	.000	.000	SREF	2690.0000	SQ.FT.
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	-5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF		10.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D034	◁	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-2.000	2.500	750.050	1331.316	XMRP	1076.6800	IN. XO
R3D037	△	IA138 AMES 246-1-97	OTS	POWER ON		10.000	-5.000	2.500	747.175	1328.316	YMRP	.0000	IN. YO
R3D041	▢	IA138 AMES 246-1-97	OTS	POWER ON		10.000	2.000	2.500	749.014	1316.871	ZMRP	375.0000	IN. ZO
											SCALE	.0100	

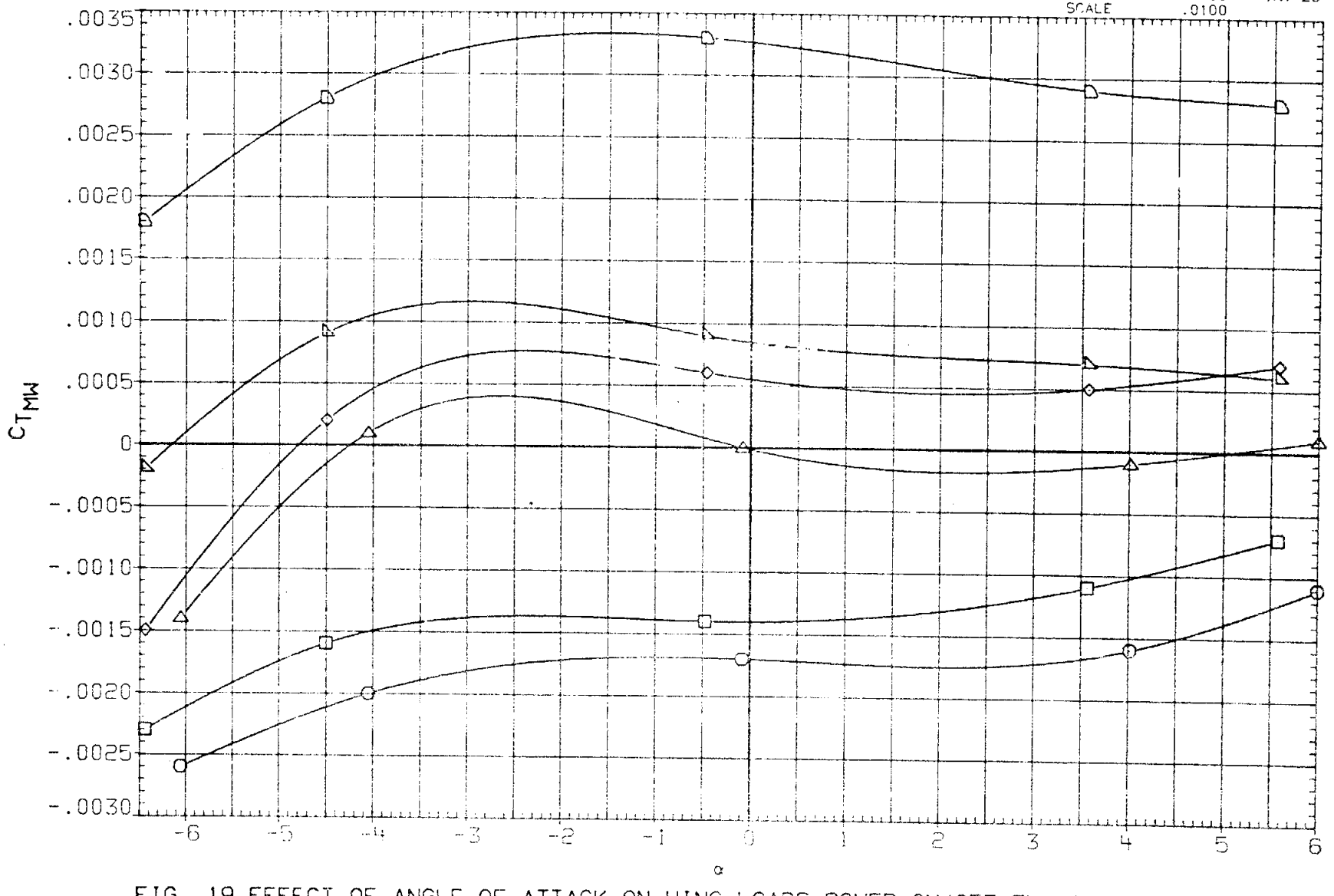

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(B) BETA = -.13

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DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D004	○	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-2.000	2.500	.000	.000
R3D007	□	IA138 AMES 246-1-97 OTS POWER OFF	10.000	-5.000	2.500	.000	.000
R3D011	◇	IA138 AMES 246-1-97 OTS POWER OFF	10.000	2.000	2.500	.000	.000
R3D034	△	IA138 AMES 246-1-97 OTS POWER ON	10.000	-2.000	2.500	750.050	1331.316
R3D037	◁	IA138 AMES 246-1-97 OTS POWER ON	10.000	-5.000	2.500	747.175	1328.316
R3D041	▱	IA138 AMES 246-1-97 OTS POWER ON	10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

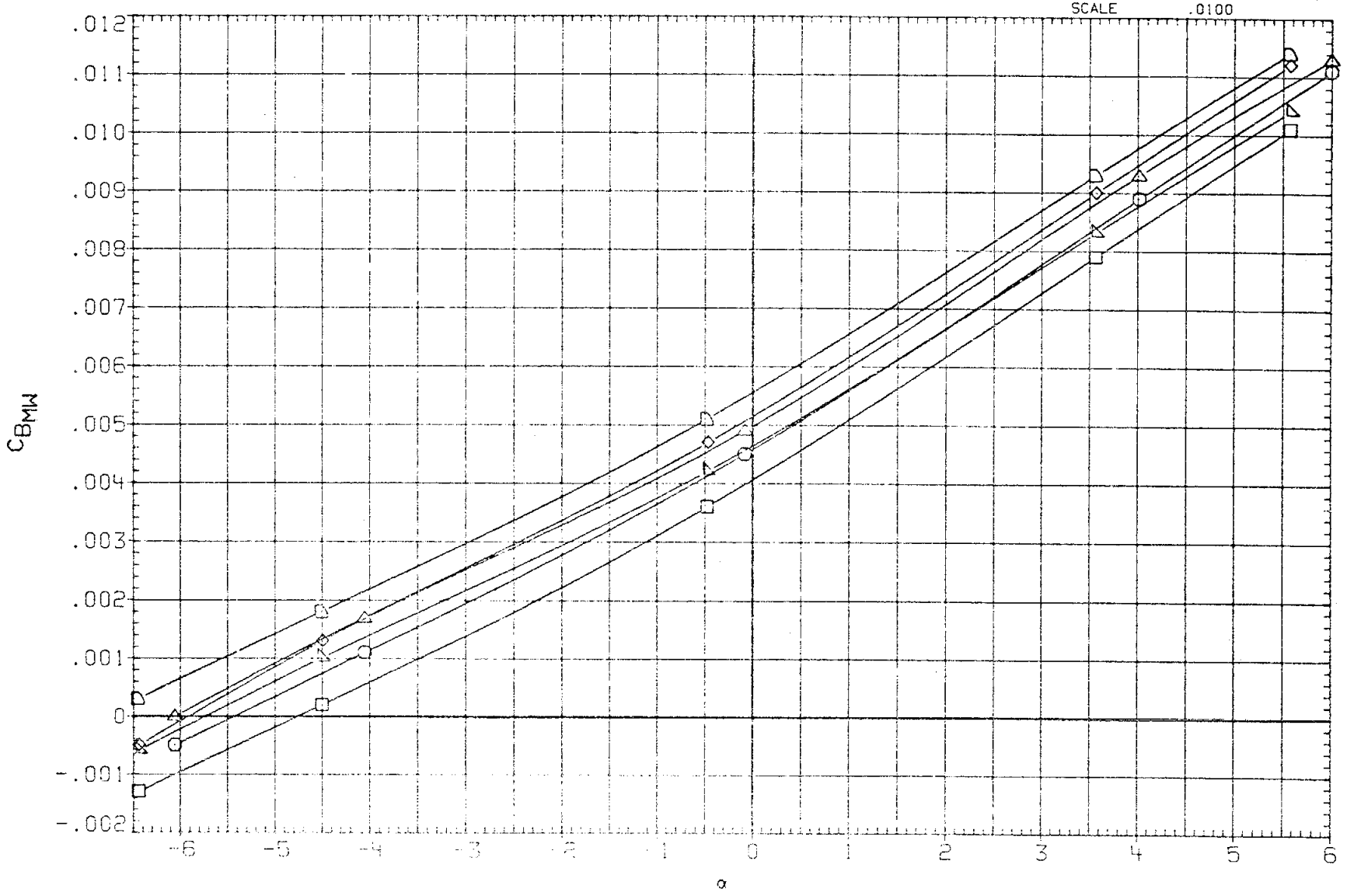

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION			
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D037	◸	IA138 AMES 246-1-97	OTS	POWER ON	
R3D041	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-8.000	2.500	.000	.000
10.000	-5.000	2.500	.000	.000
10.000	2.000	2.500	.000	.000
10.000	-2.000	2.500	750.050	1331.316
10.000	-5.000	2.500	747.175	1328.315
10.000	2.000	2.500	748.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

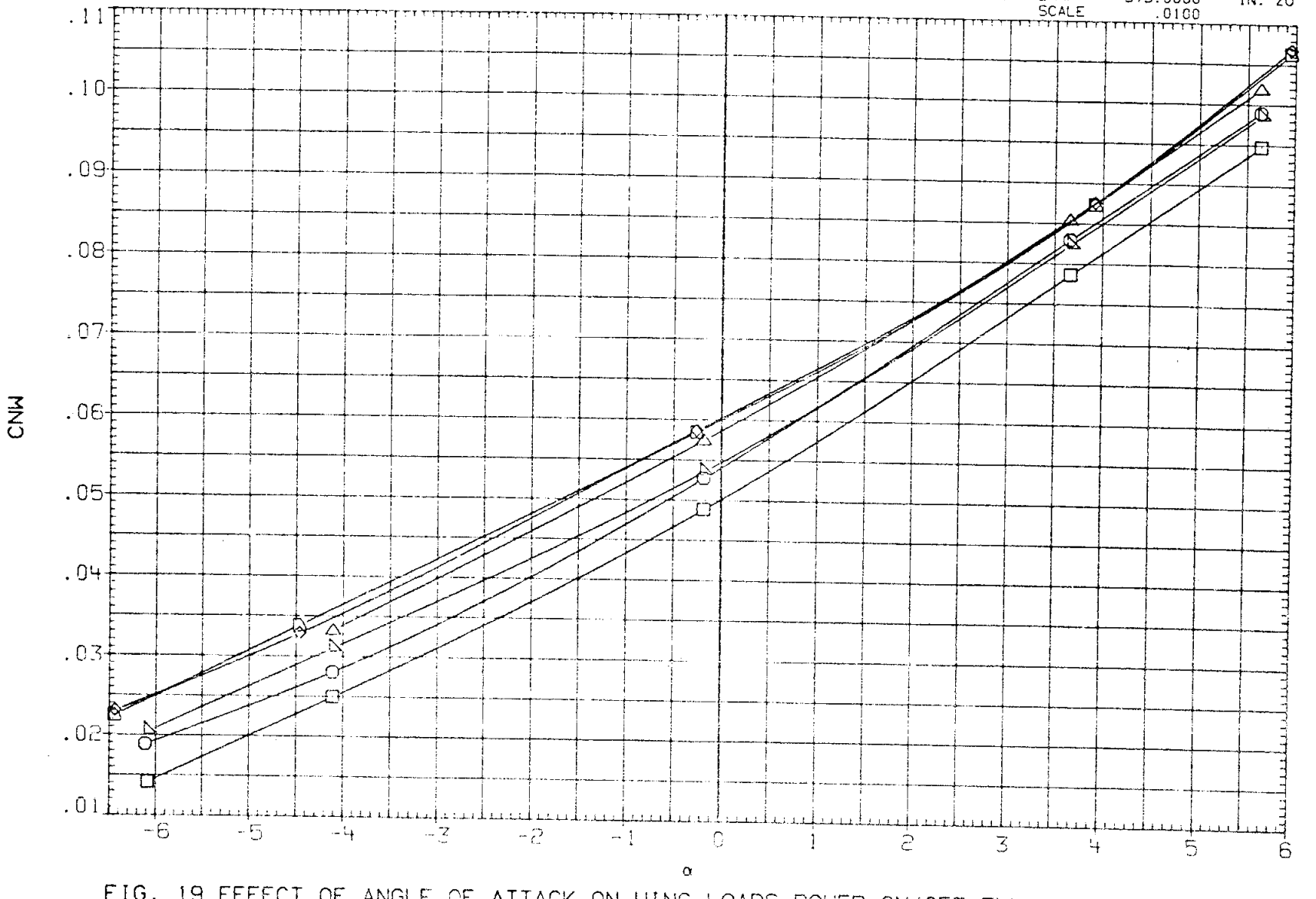

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(C)BETA = 3.77 DATE 17 OCT 78 PAGE 70

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D004	○	1A138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.500	.000	.000	SREF	2690.0000	SQ.FT.
R3D007	□	1A138 AMES 246-1-97	OTS	POWER OFF	10.000	5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D011	◇	1A138 AMES 246-1-97	OTS	POWER OFF	10.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D034	△	1A138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.500	750.050	1331.316	XMRP	1076.6800	IN. XO
R3D037	◁	1A138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.500	747.175	1328.316	YMRP	.0000	IN. YO
R3D041	▱	1A138 AMES 246-1-97	OTS	POWER ON	10.000	2.000	2.500	749.019	1316.871	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

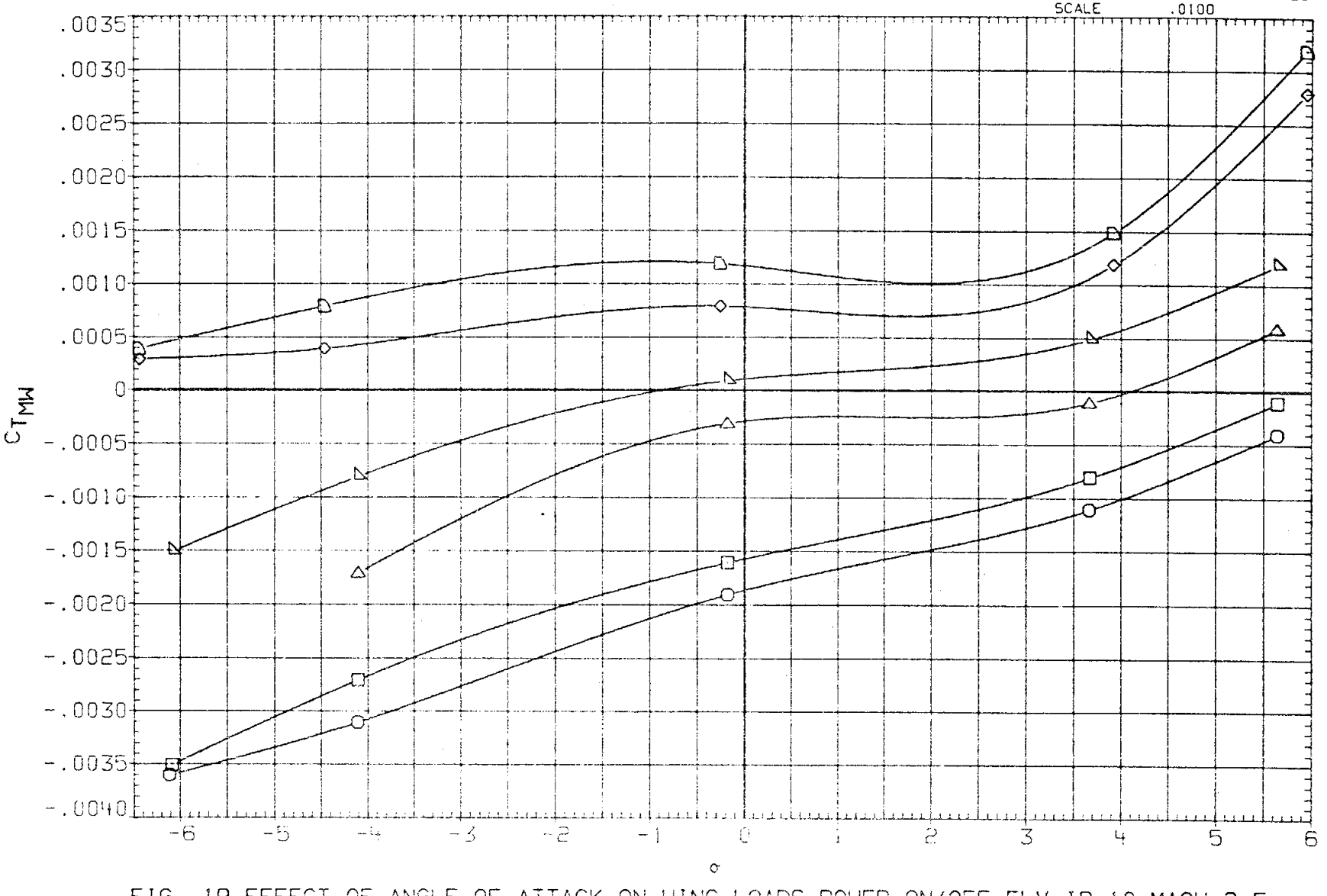

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SPBPR	SSMEPR	REFERENCE INFORMATION		
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-3.000	2.500	.000	.000	SREF	2590.0000	SQ.FT.
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.500	750.050	1331.316	XMRP	1076.6800	IN. XO
R3D037	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.500	747.175	1328.316	YMRP	.0000	IN. YO
R3D041	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	3.000	2.500	749.014	1316.871	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

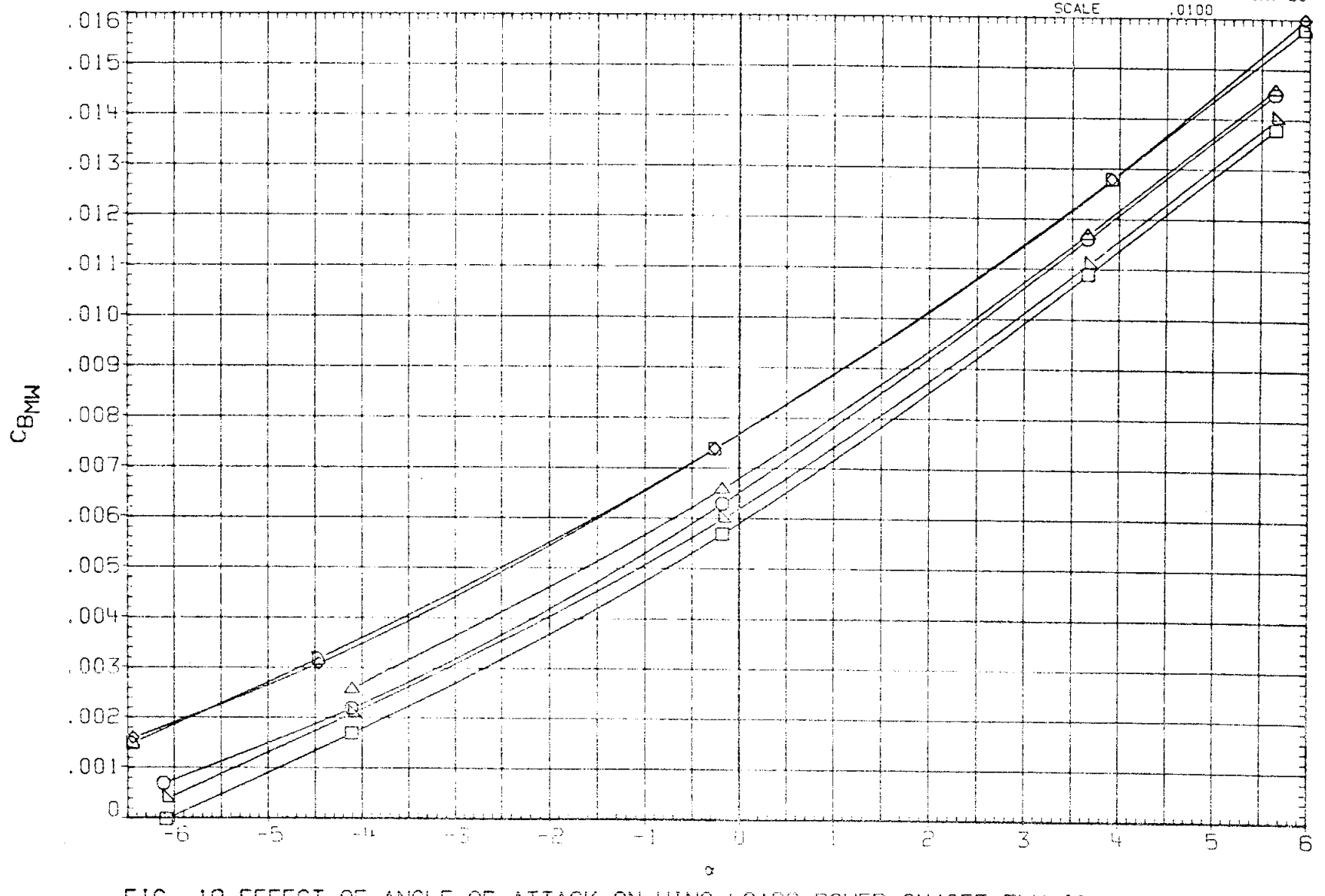

FIG. 19 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(C)BETA = 3.77 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBDR	SSMEPR
R30012	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.550	.000	.000
R30015	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.550	.000	.000
R30042	◇	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.550	196.334	371.071
R30045	△	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

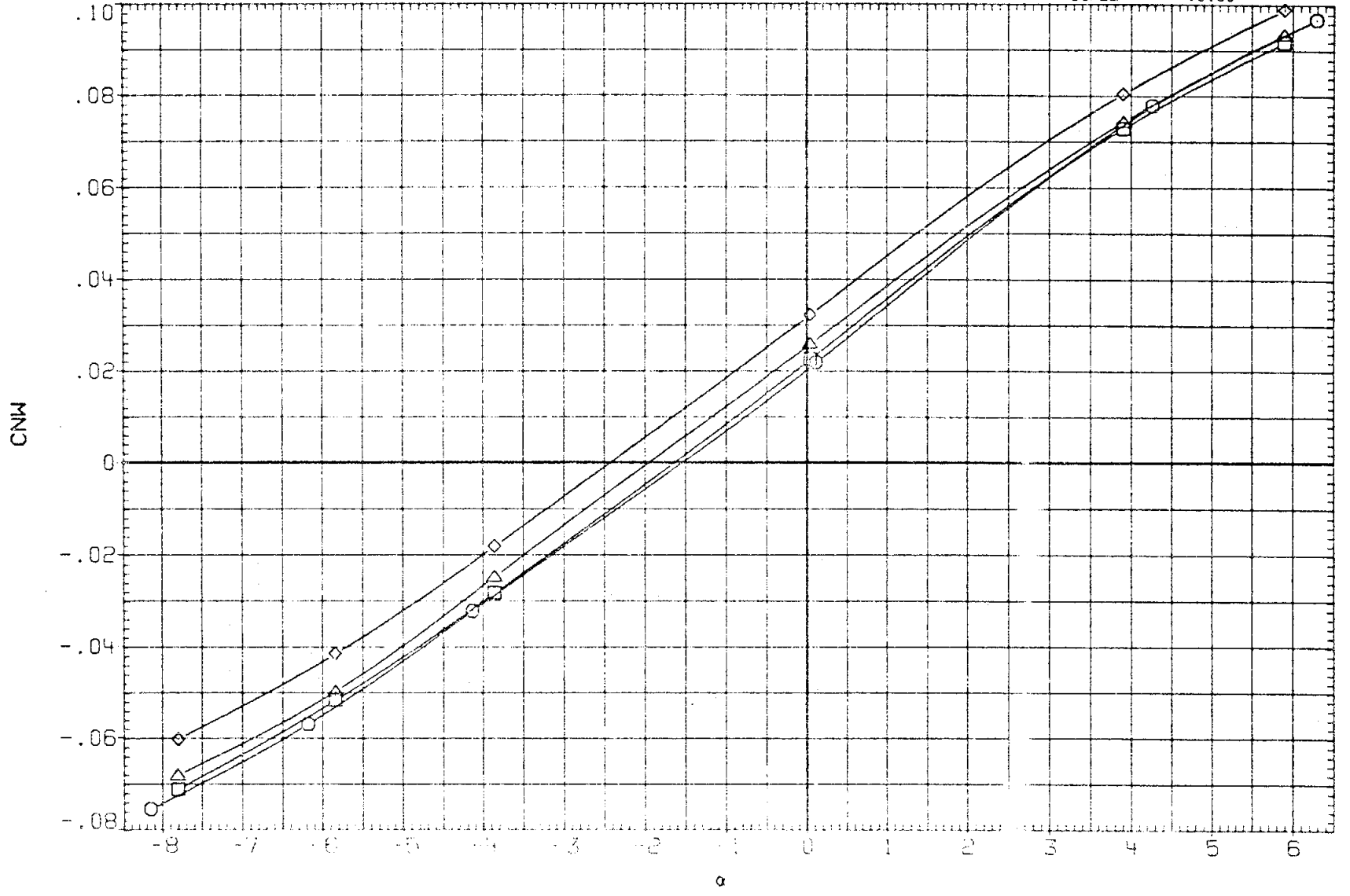

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF ELV-IB= MACH=1.55

(A) BETA = -4.32 DATE 17 OCT 73 PAGE 73

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1075.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

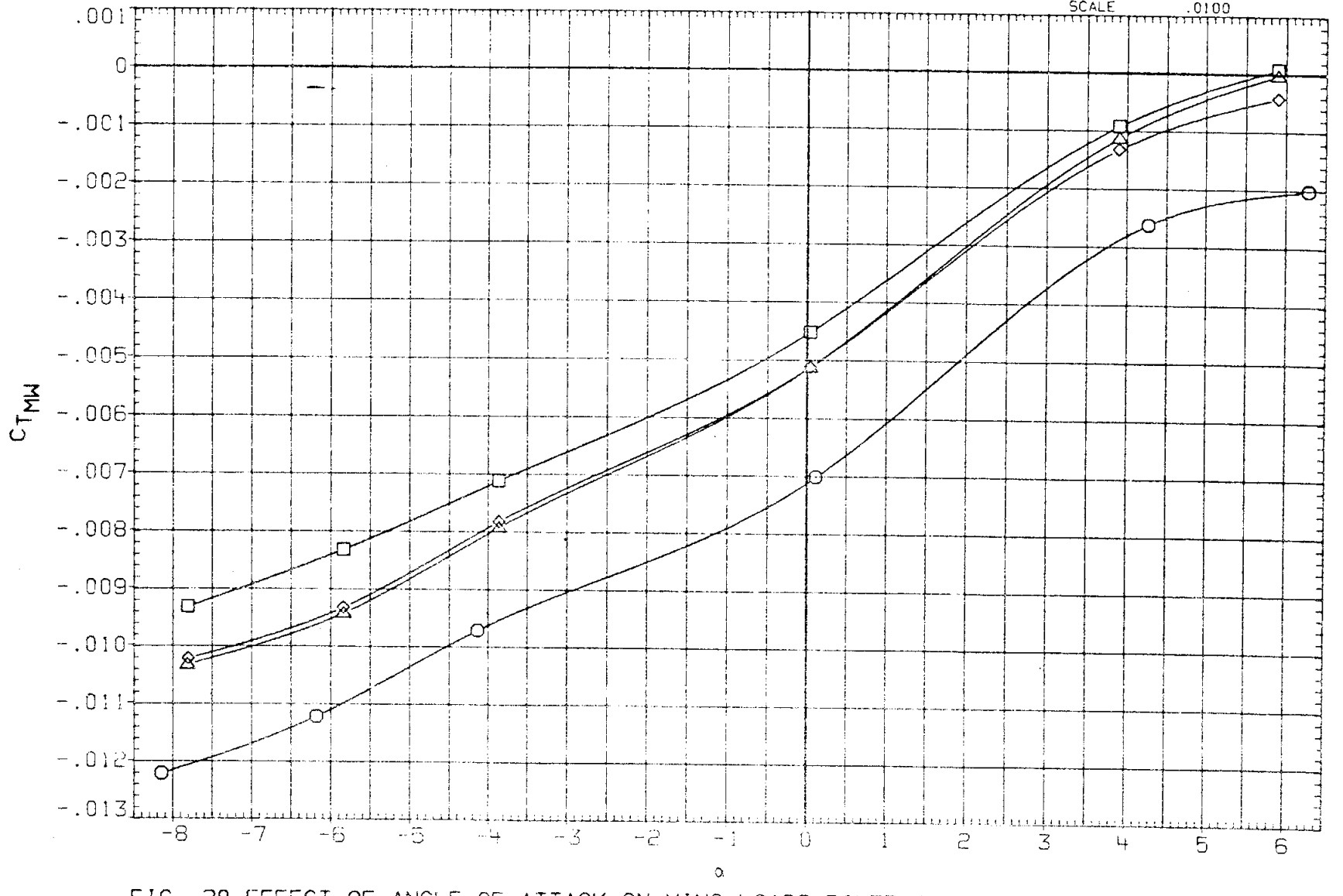

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(A) BETA = -4.32

DATE 17 OCT 88

DATA SET	SYMBOL	CONFIGURATION			
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON	
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.360	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

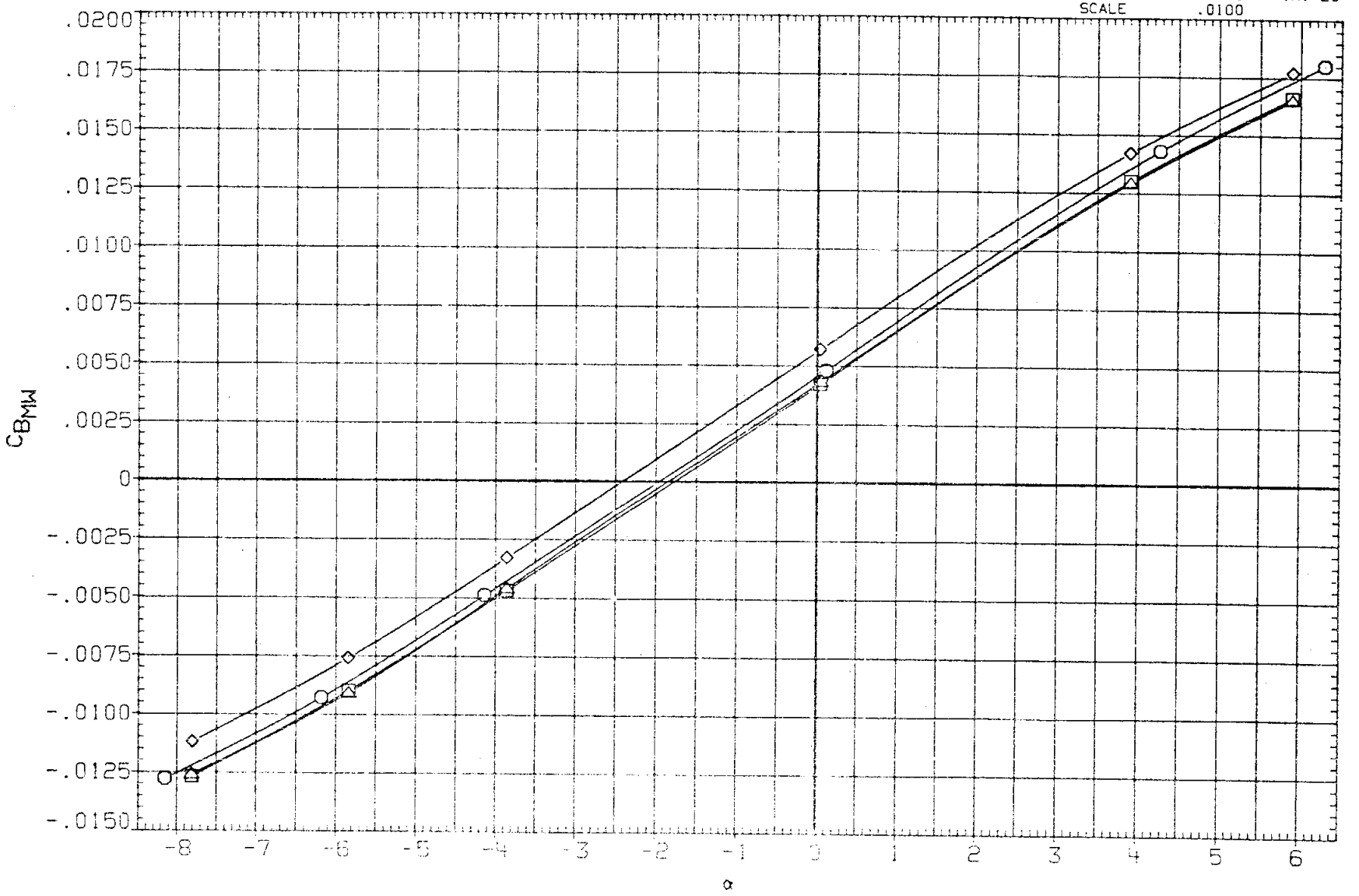

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(A) BETA = -4.32

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R30012	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.550	.000	.000
R30015	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.550	.000	.000
R30042	◇	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.550	196.334	371.871
R30045	△	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

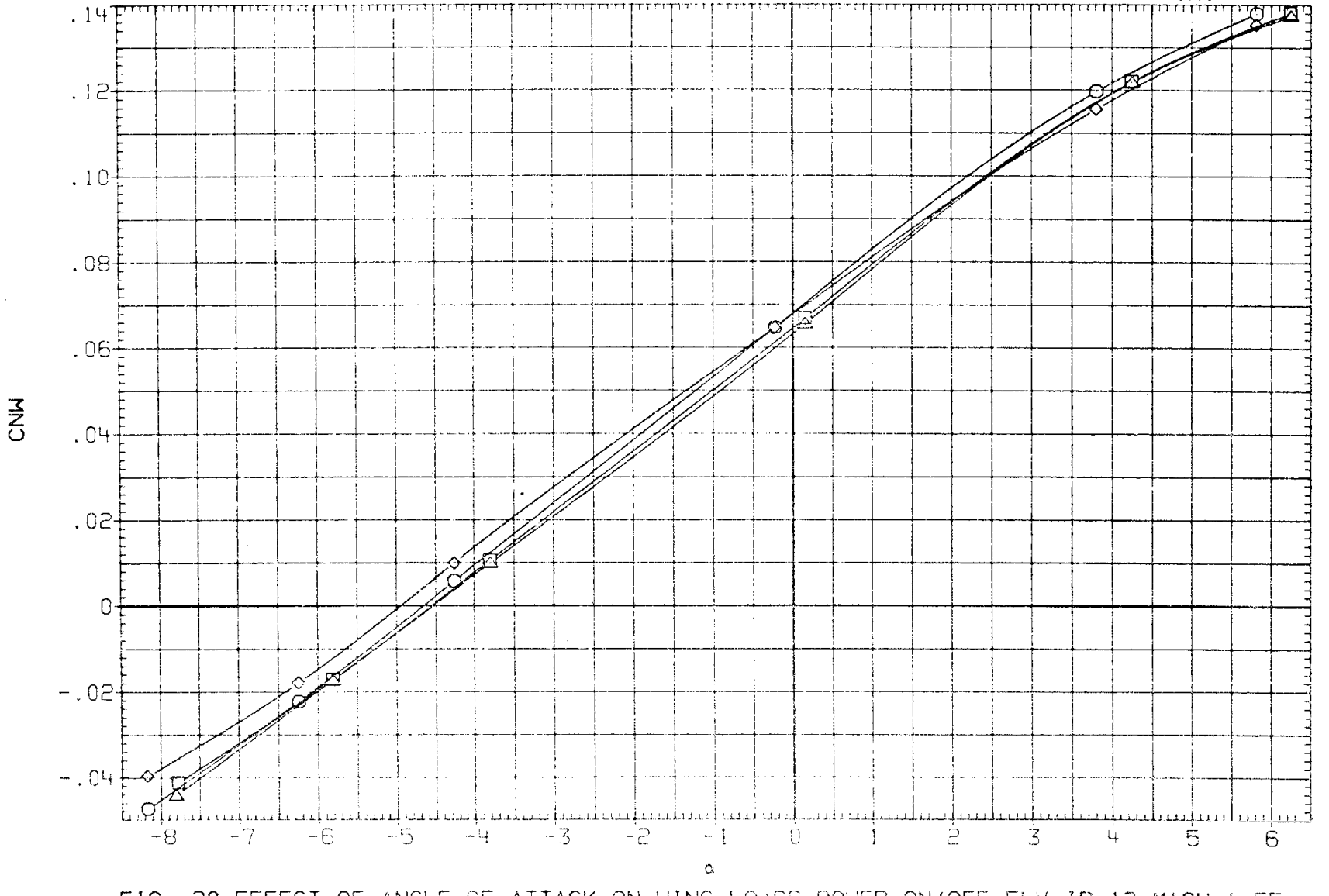

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SREPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

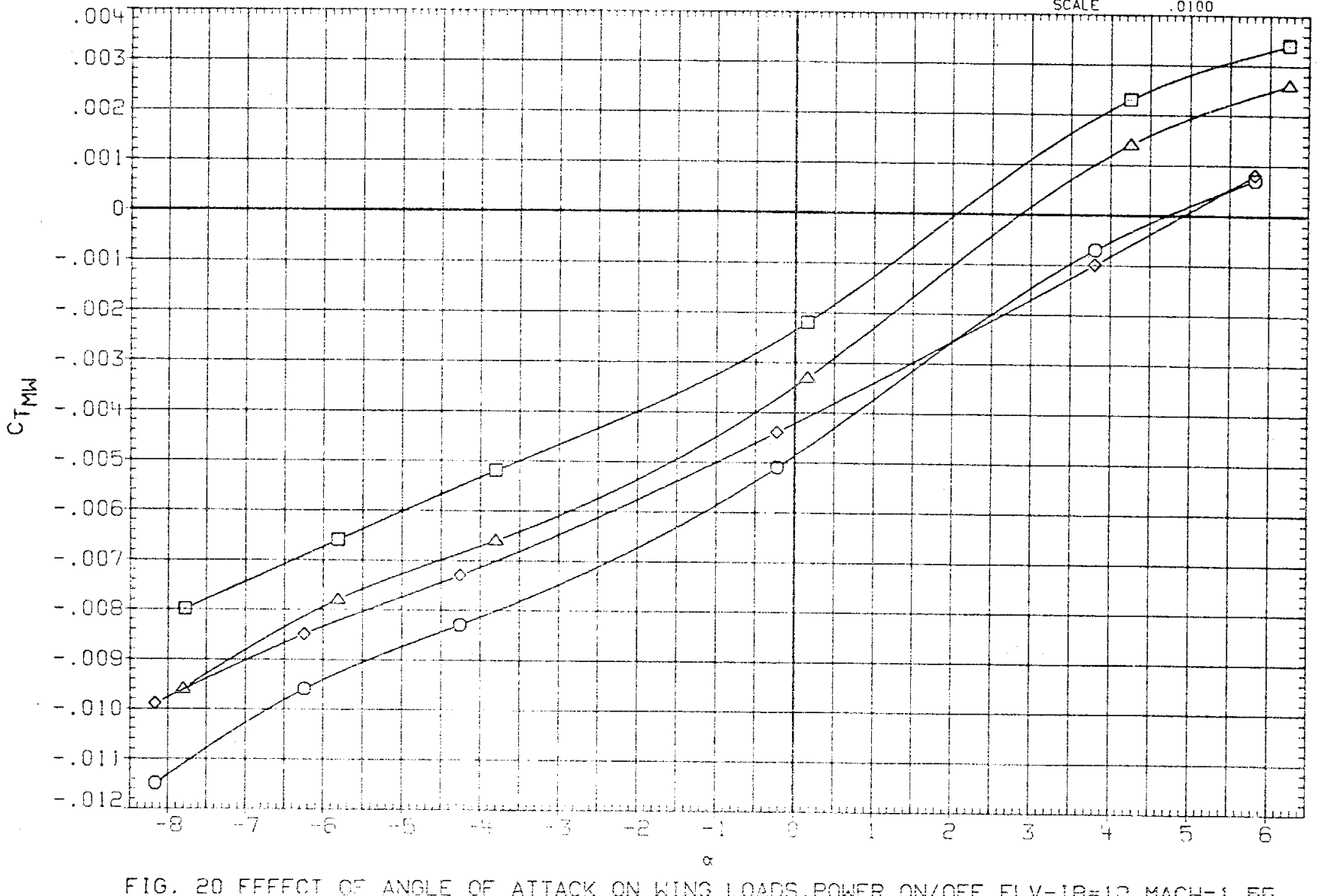

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(B)BETA = -.26

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6900	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

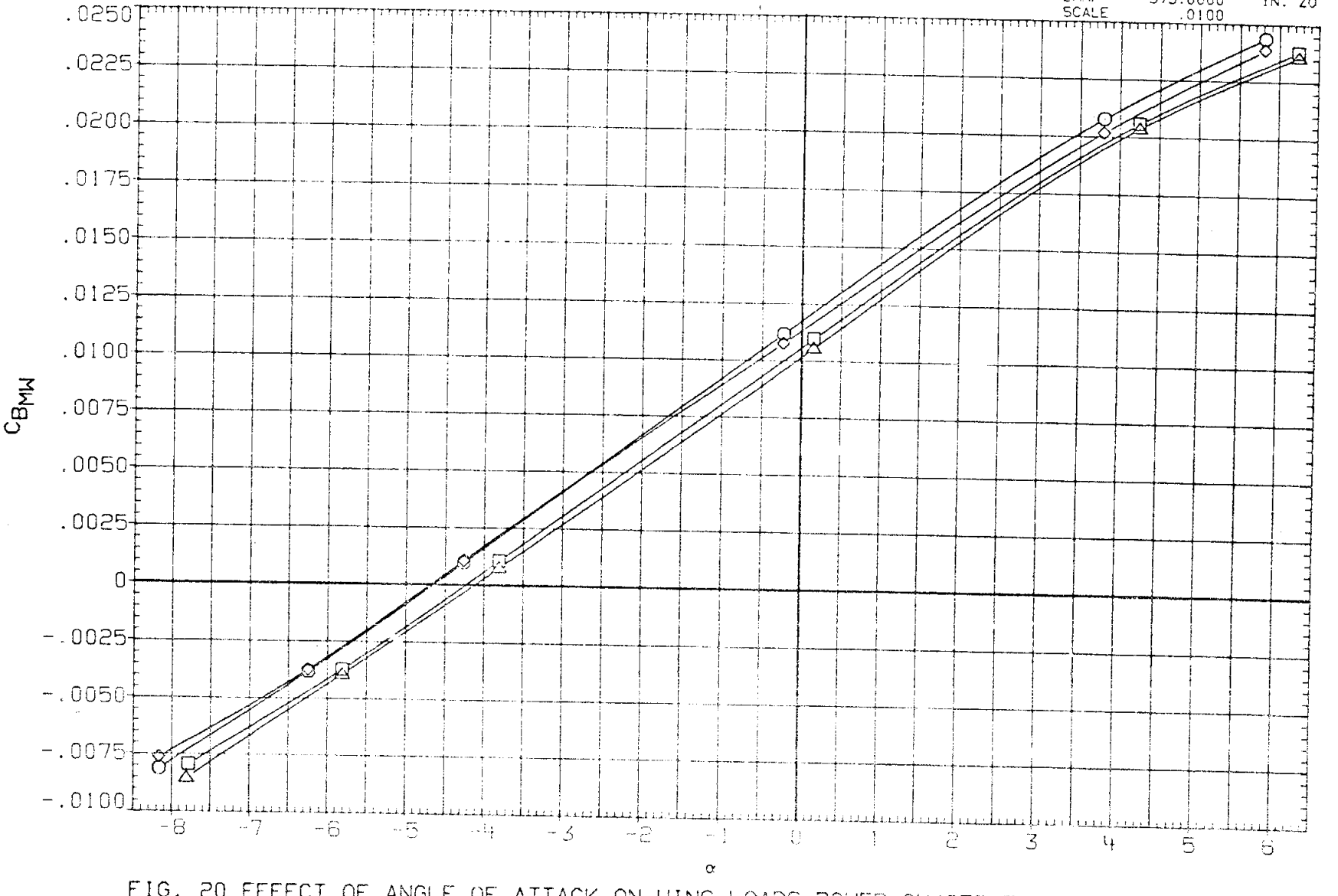

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(B)BETA = -.26

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

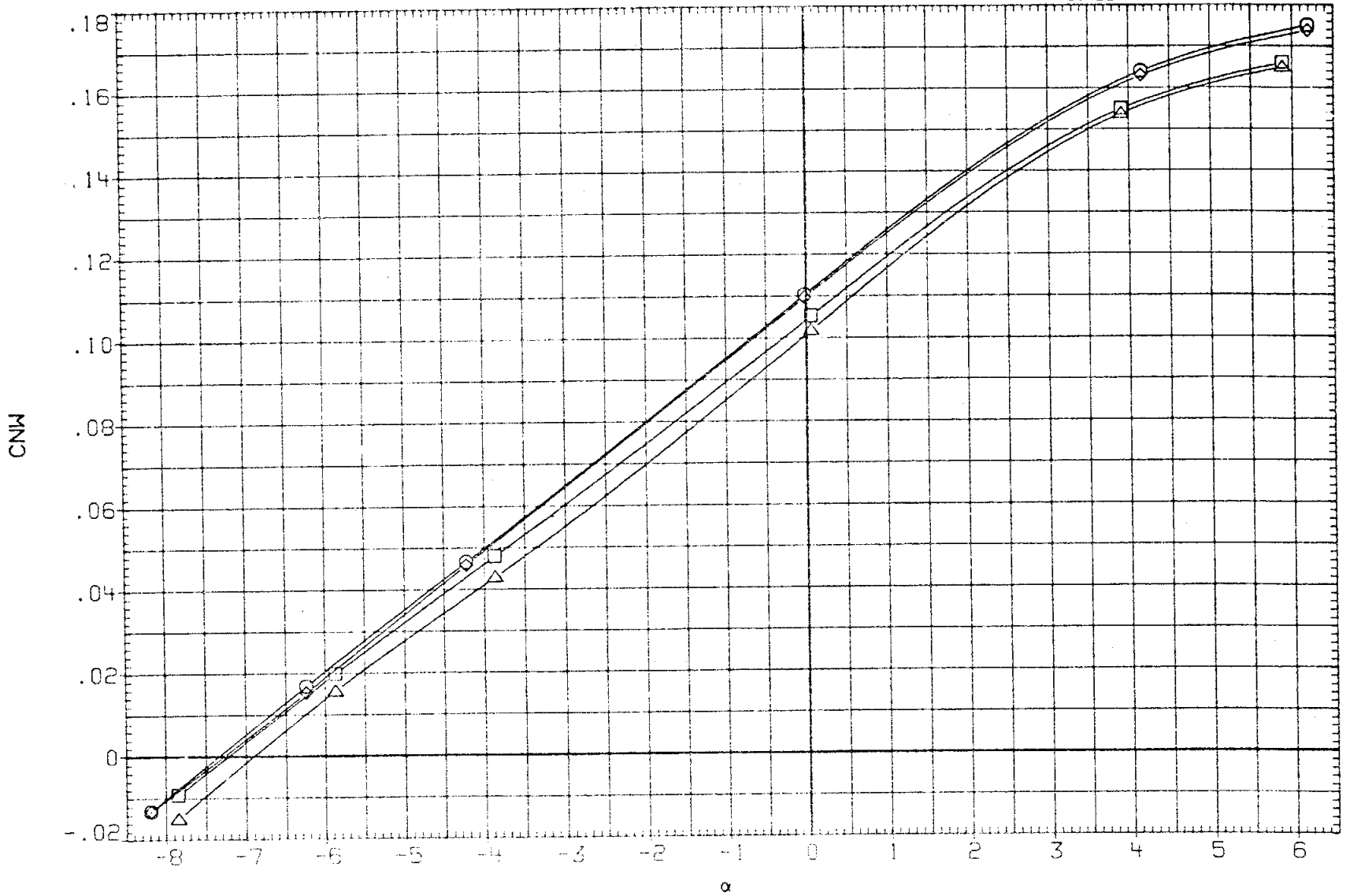

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R30012	○	IA138 AMES 246-1-97	01S	POWER OFF	12.000	-2.000	1.550	.000	.000
R30015	□	IA138 AMES 246-1-97	01S	POWER OFF	12.000	-2.000	1.550	.000	.000
R30042	◇	IA138 AMES 246-1-97	01S	POWER ON	12.000	-2.000	1.550	196.634	371.871
R30045	△	IA138 AMES 246-1-97	01S	POWER ON	12.000	-2.000	1.550	196.580	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

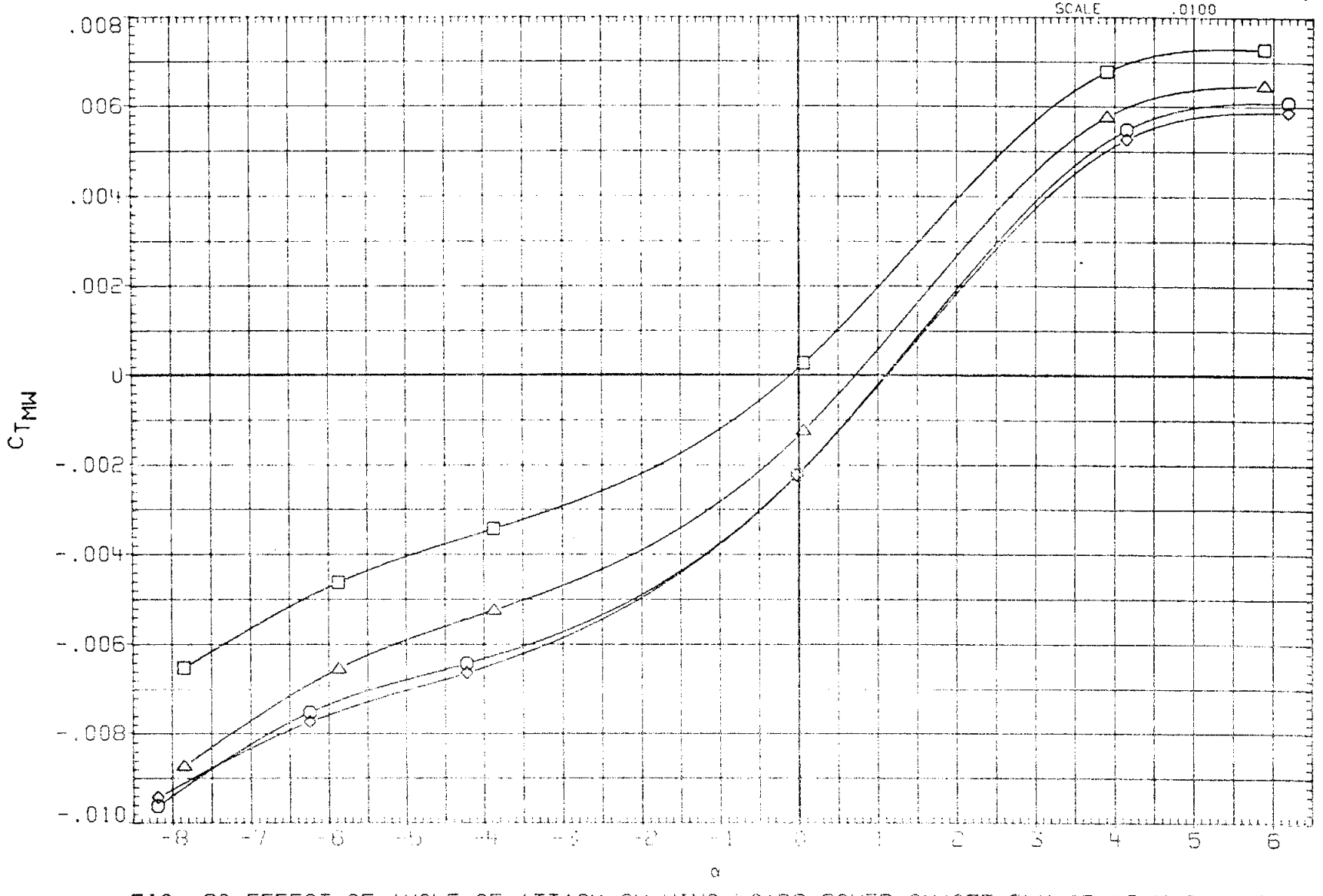

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(C)BETA = 3.77 DATE 17 OCT 78 PAGE 80

DATA SET	SYMBOL	CONFIGURATION
R3D012	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D015	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D042	◇	IA138 AMES 246-1-97 OTS POWER ON
R3D045	△	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.5800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

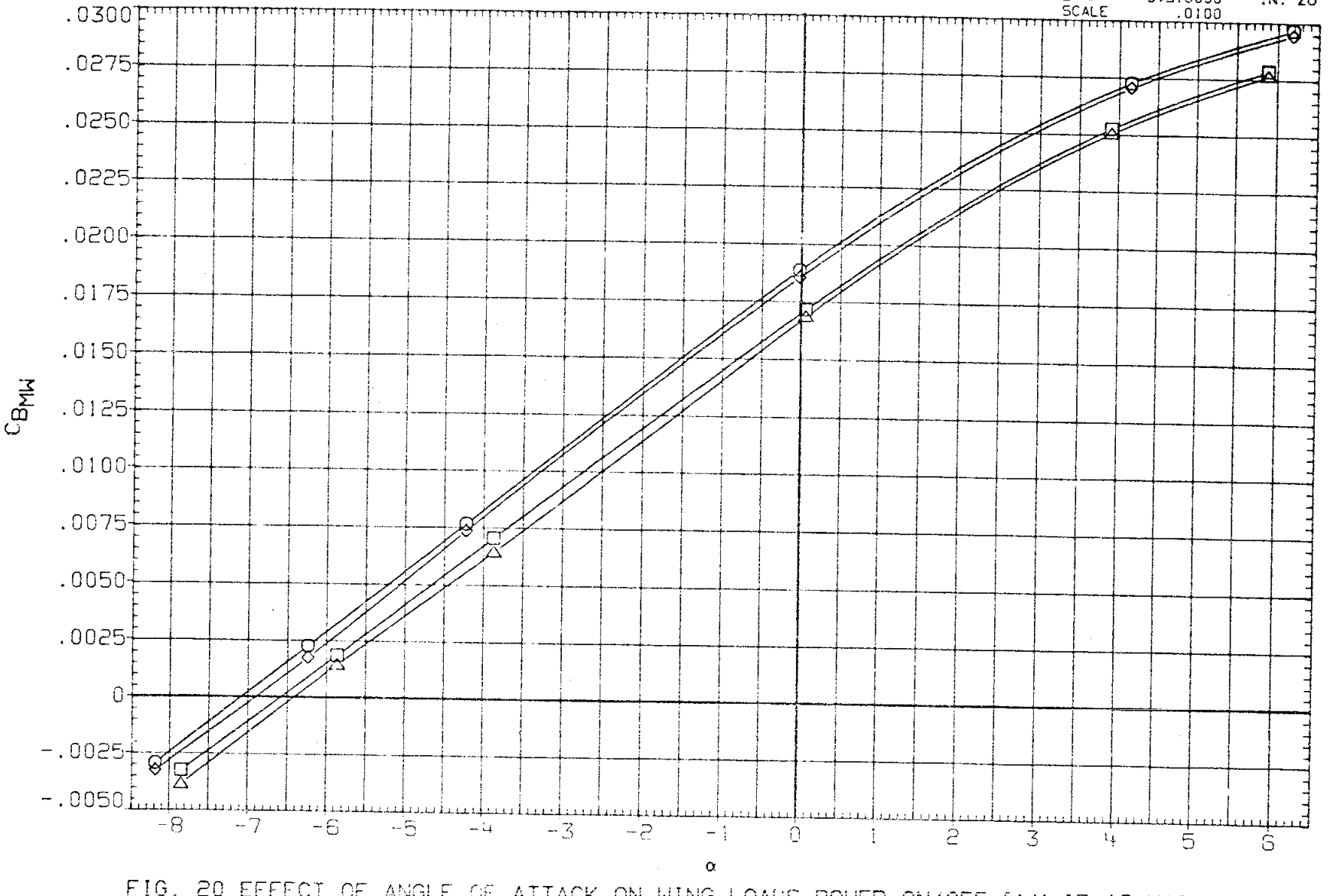

FIG. 20 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(C)BETA = 3.77

DATE 17 OCT 78

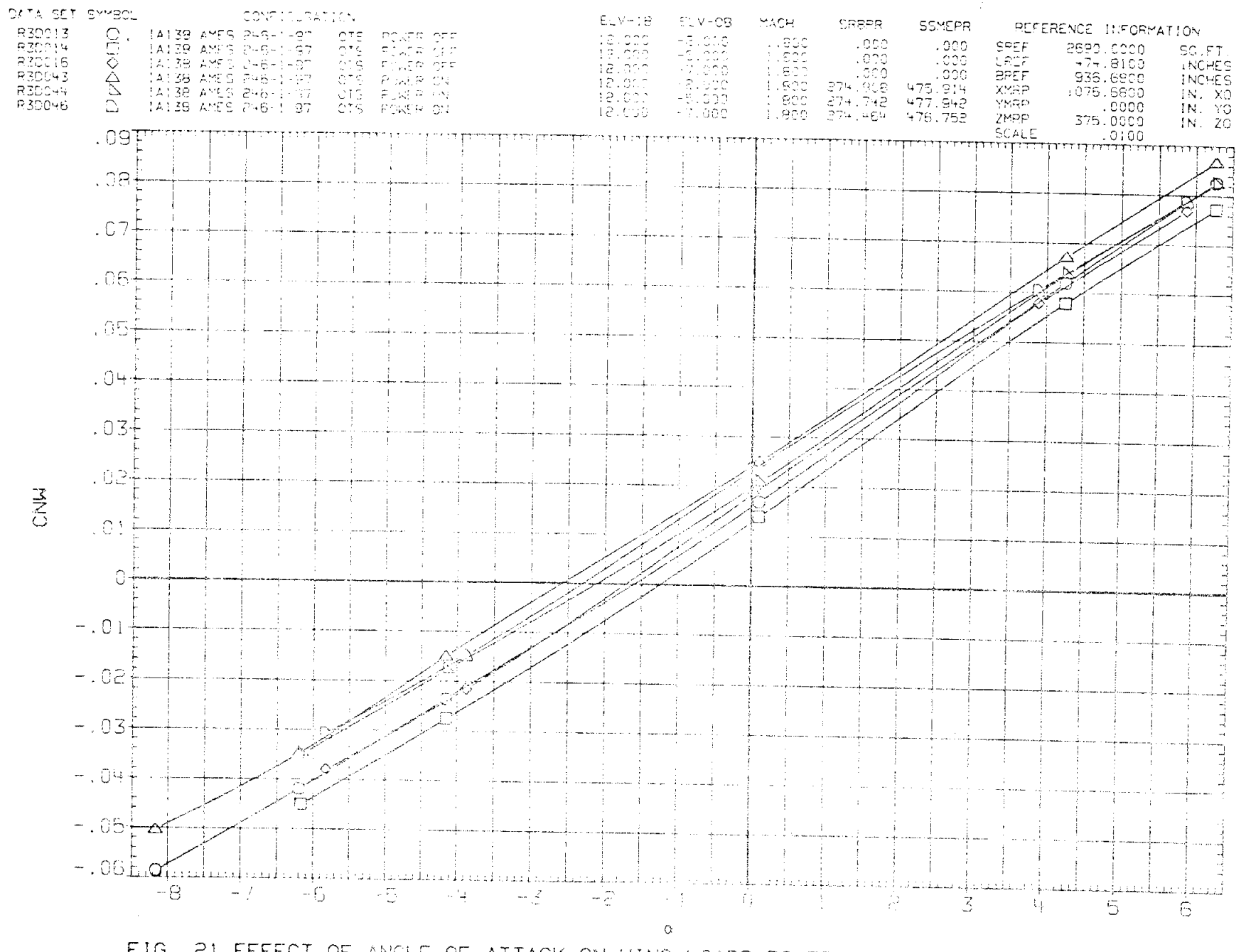

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(A) BETA = -4.27

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-2.000	1.800	274.808	475.914	XMRP	1076.6800	IN. XO
R3D044	▽	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-5.000	1.800	274.742	477.942	YMRP	.0000	IN. YO
R3D045	▷	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-7.000	1.800	274.464	476.752	ZMRP	375.0000	IN. ZO
											SCALE	.0100	

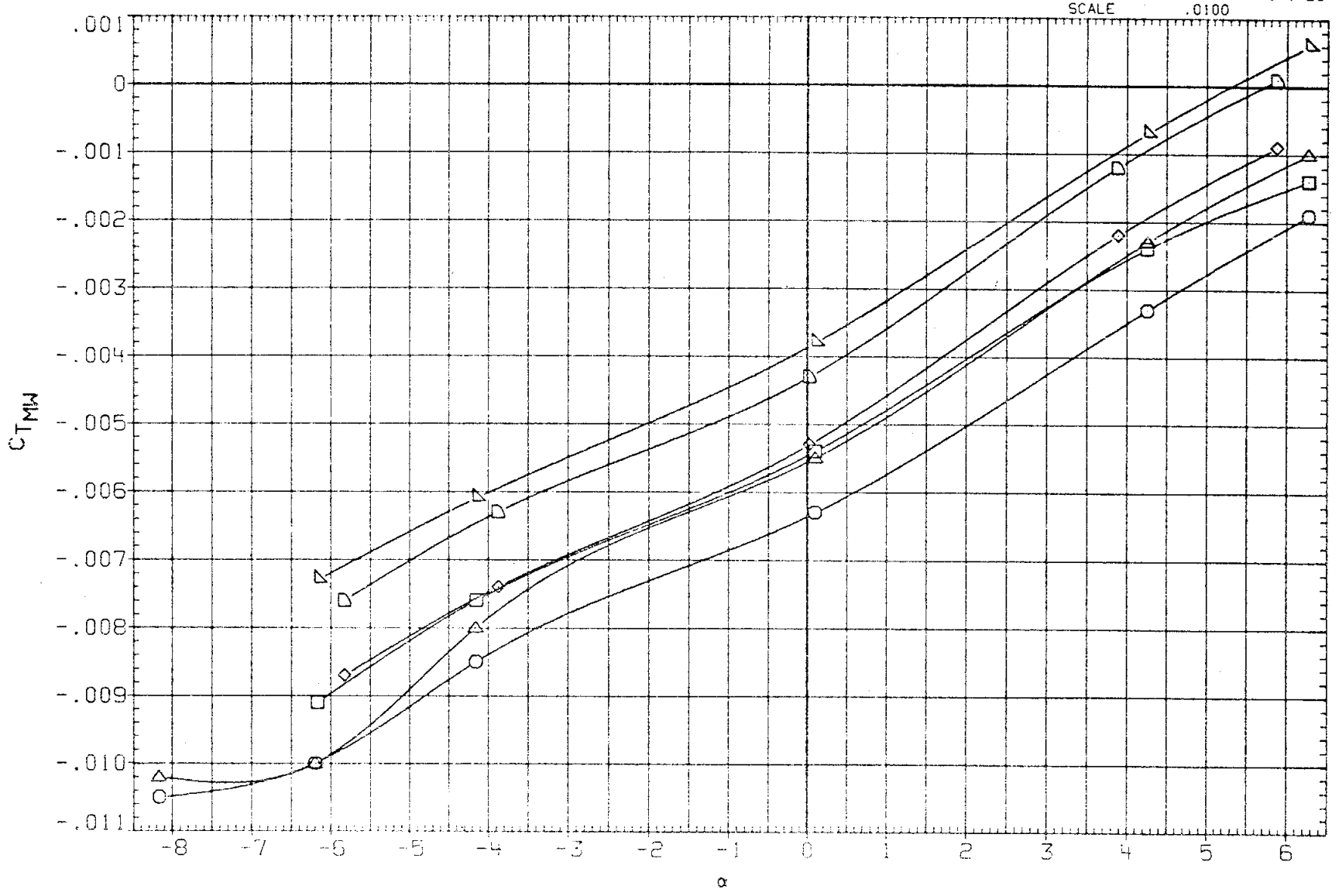

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(A) BETA = -4.27

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D044	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D046	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.600	.000	.000
12.000	-5.000	1.600	.000	.000
12.000	-7.000	1.600	.000	.000
12.000	-2.000	1.600	274.608	475.914
12.000	-5.000	1.600	274.742	477.942
12.000	-7.000	1.600	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

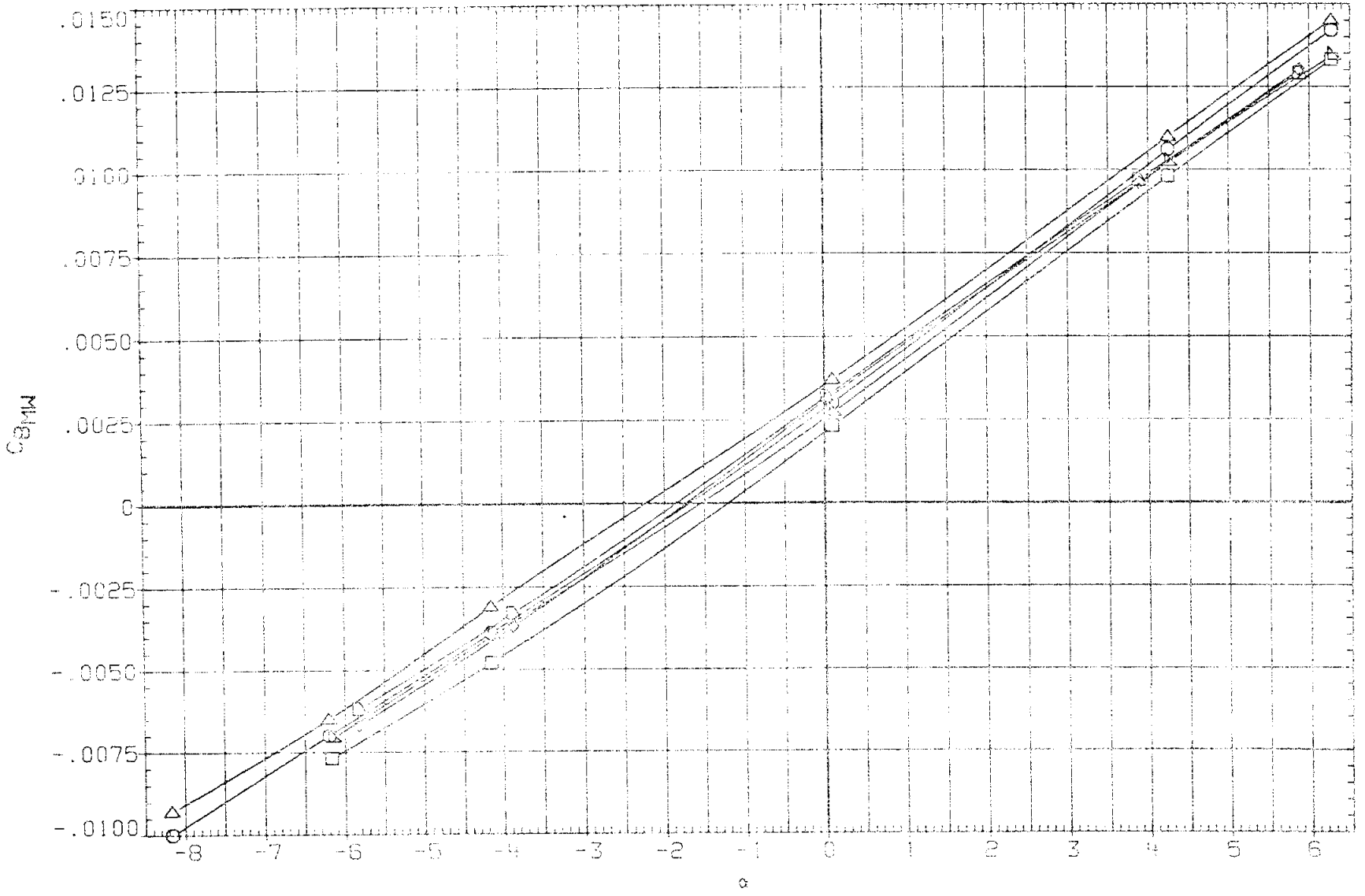

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(A) BETA = -4.27

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.800	274.808	475.914	XMRP	1076.6800	IN. XO
R3D044	◁	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-5.000	1.800	274.742	477.942	YMRP	.0000	IN. YO
R3D046	▷	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.800	274.464	476.752	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

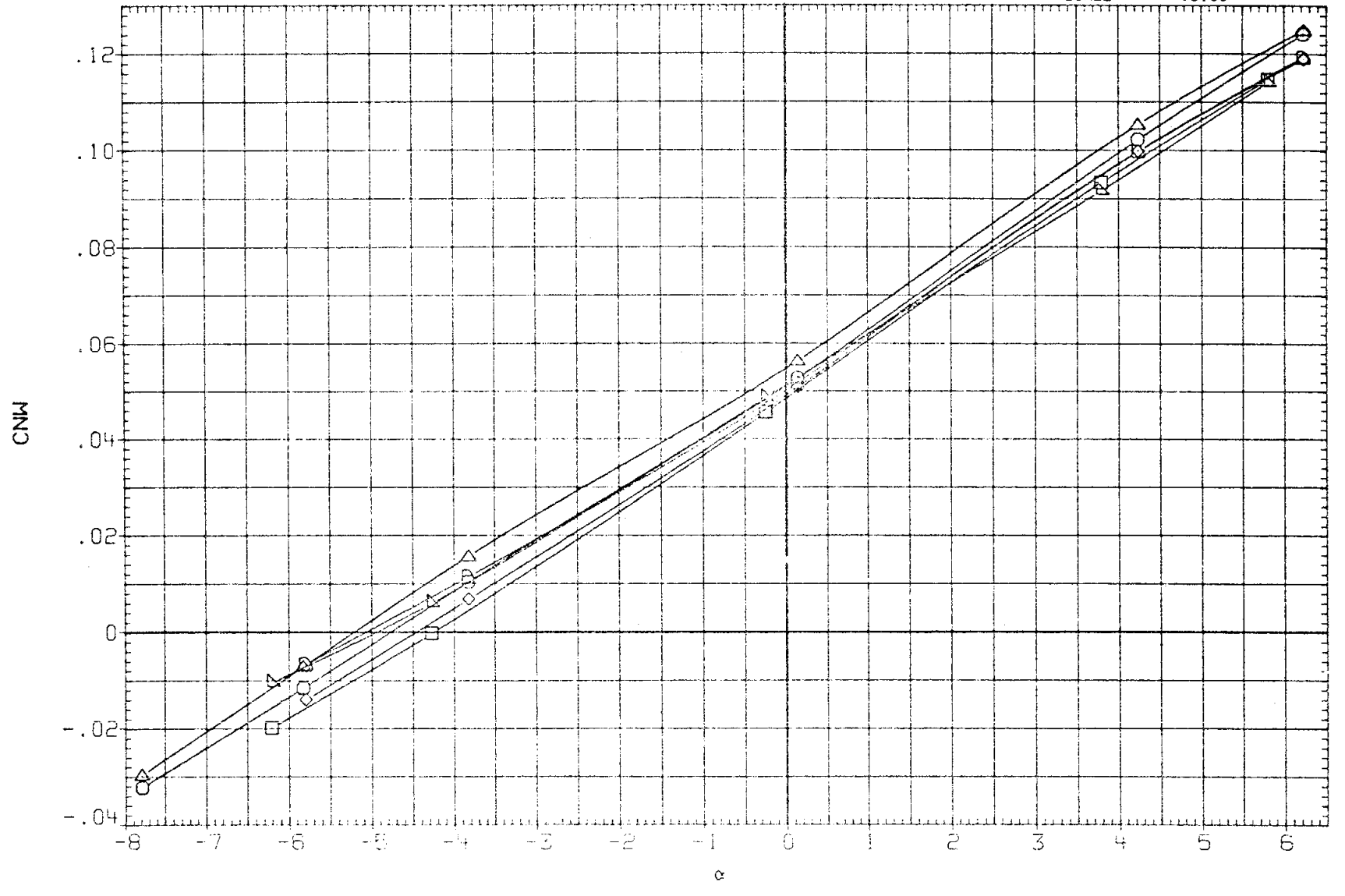

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR	REFERENCE INFORMATION		
R3D013	○	IA138 AMES 246-1-97 OTS POWER OFF	12.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D014	□	IA138 AMES 246-1-97 OTS POWER OFF	12.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D016	◇	IA138 AMES 246-1-97 OTS POWER OFF	12.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D043	△	IA138 AMES 246-1-97 OTS POWER ON	12.000	-2.000	1.800	274.808	475.914	XMRP	1015.6800	IN. XO
R3D044	▽	IA138 AMES 246-1-97 OTS POWER ON	12.000	-5.000	1.800	274.742	477.942	YMRP	.0000	IN. YO
R3D046	⬠	IA138 AMES 246-1-97 OTS POWER ON	12.000	-7.000	1.800	274.484	476.752	ZMRP	375.0000	IN. ZO
								SCALE	.0100	

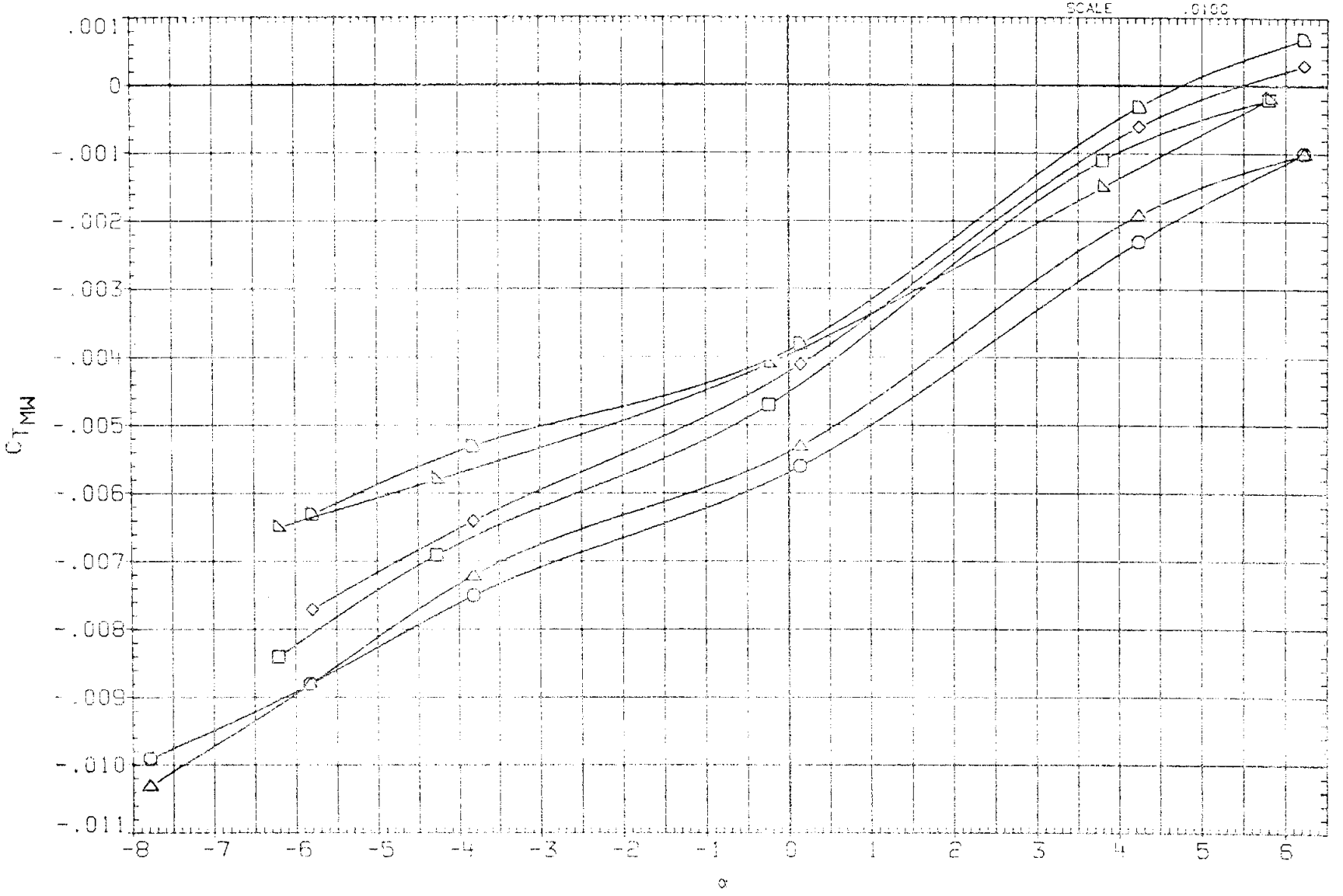

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(B) BETA = -.21

DATA SET	SYMBOL	CONFIGURATION		
R30013	○	IA138 AMES 246-1-97	OTS	POWER OFF
R30014	□	IA138 AMES 246-1-97	OTS	POWER OFF
R30016	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R30043	△	IA138 AMES 246-1-97	OTS	POWER ON
R30044	◁	IA138 AMES 246-1-97	OTS	POWER ON
R30046	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.800	.000	.000
12.000	-5.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

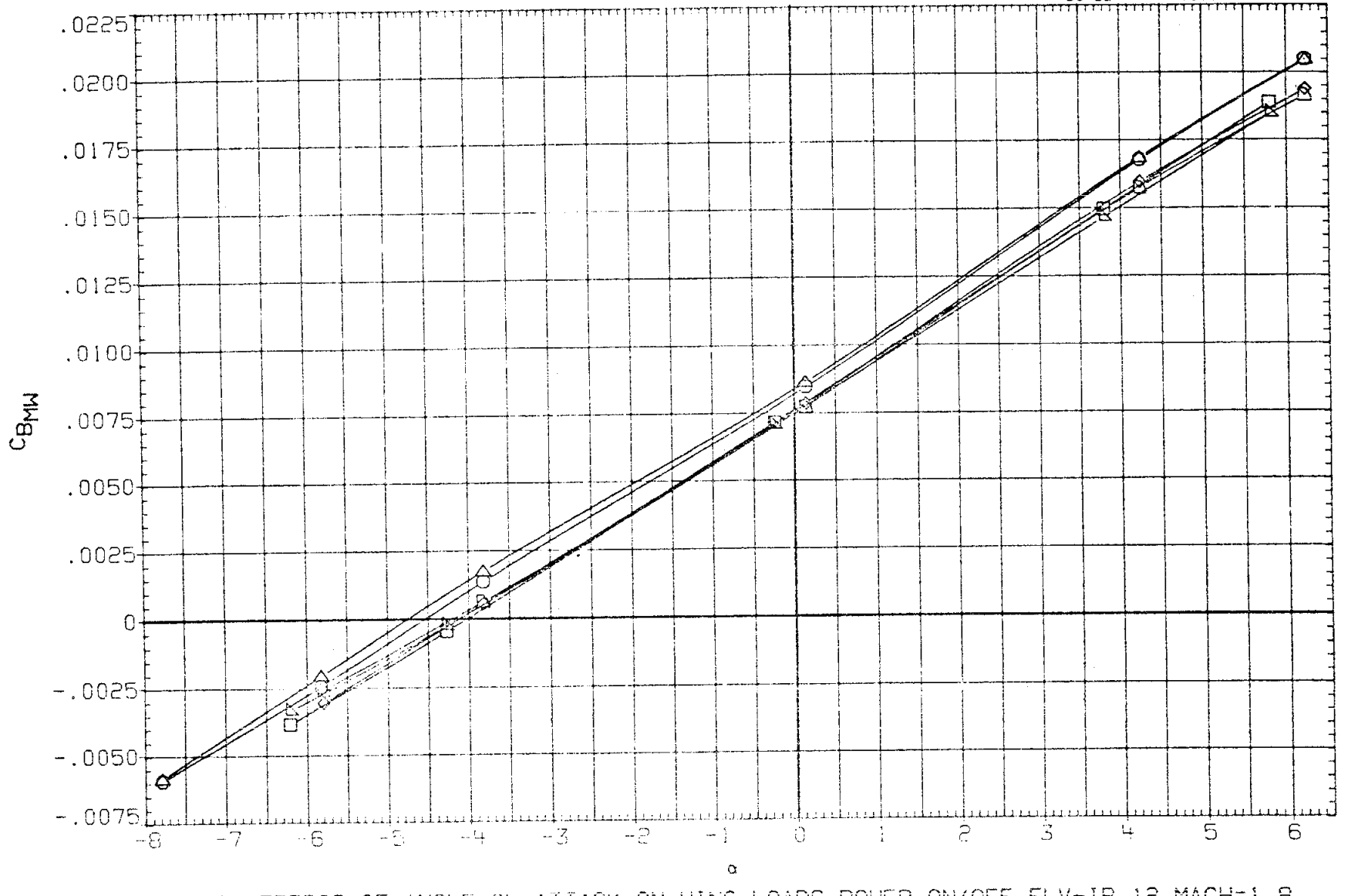

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB-12, MACH=1.8

(B) BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SDGPR	SSMEPR	REFERENCE INFORMATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.800	274.809	475.914	XMRP	1076.6800	IN. XO
R3D044	▽	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-5.000	1.800	274.708	477.042	YMRP	.0000	IN. YO
R3D046	D	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.800	274.464	476.752	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

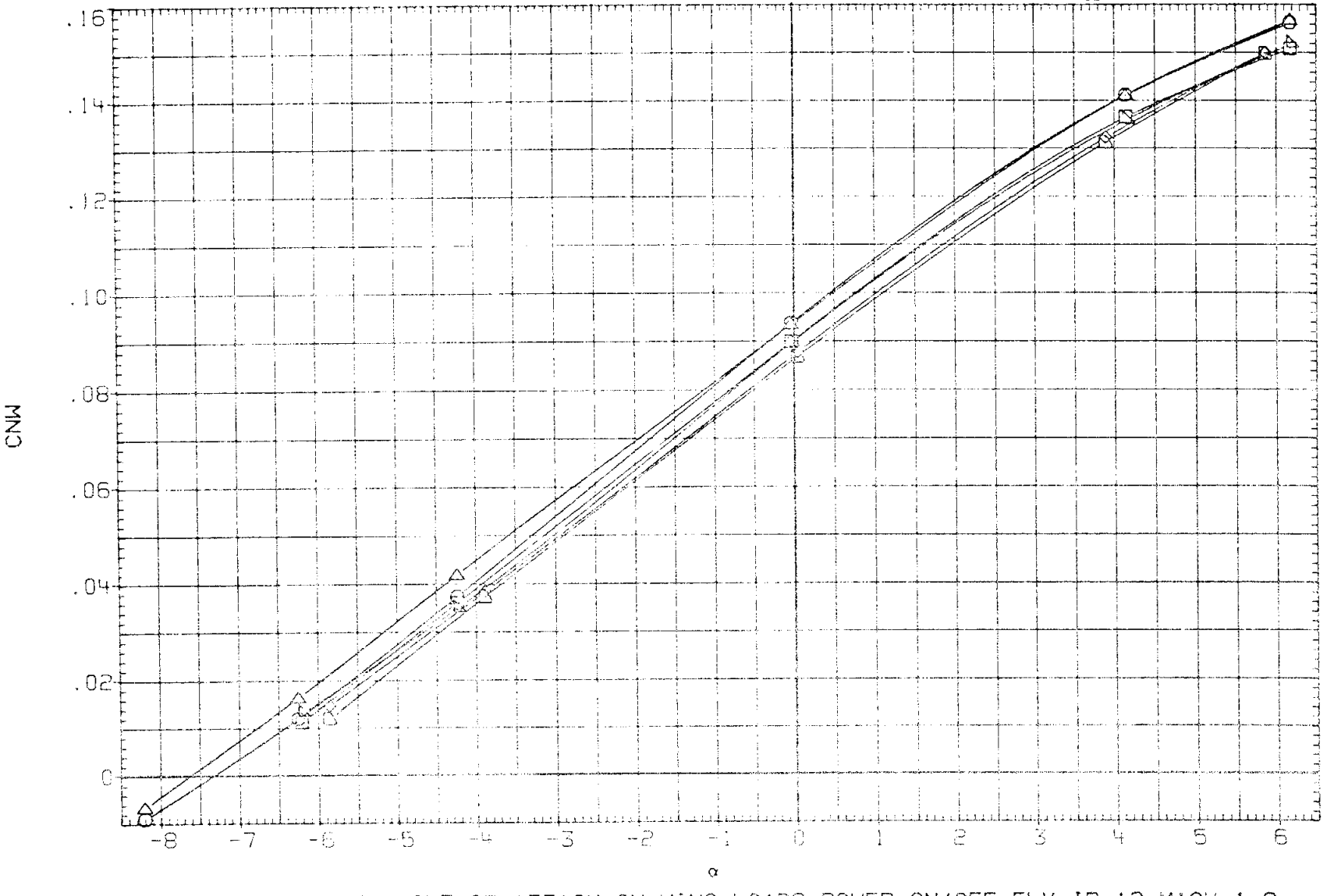

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(C) BETA = 3.81 DATE 17 OCT 72 PAGE 88

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.800	.000	.000	SREF	2690.0000	SQ.FT.
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-5.000	1.800	.000	.000	LREF	474.8100	INCHES
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.800	.000	.000	BREF	936.6800	INCHES
R3D043	◁	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.800	274.808	475.914	XMRP	1076.6800	IN. XO
R3D044	◺	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-5.000	1.800	274.742	477.942	YMRP	.0000	IN. YO
R3D046	▷	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.800	274.464	476.752	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

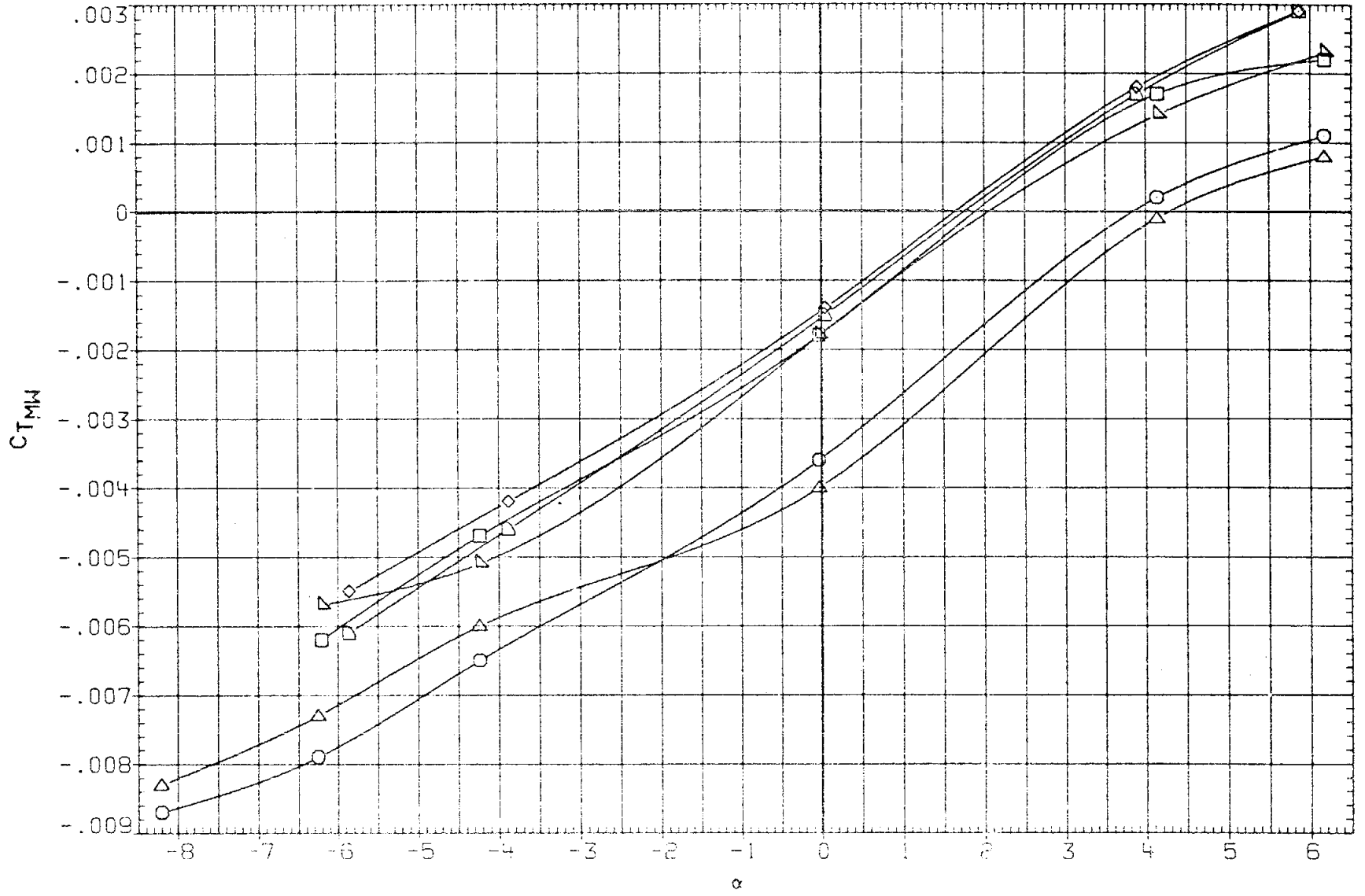

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS.POWER ON/OFF,ELV-IB=12,MACH=1.8

DATA SET	SYMBOL	CONFIGURATION		
R3D013	○	1A138 AMES 246-1-97	OTS	POWER OFF
R3D014	□	1A138 AMES 246-1-97	OTS	POWER OFF
R3D016	◇	1A138 AMES 246-1-97	OTS	POWER OFF
R3D043	◁	1A138 AMES 246-1-97	OTS	POWER ON
R3D044	△	1A138 AMES 246-1-97	OTS	POWER ON
R3D046	▷	1A138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SPPPR	SSMEPR
12.000	-9.000	1.800	.000	.000
12.000	-8.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

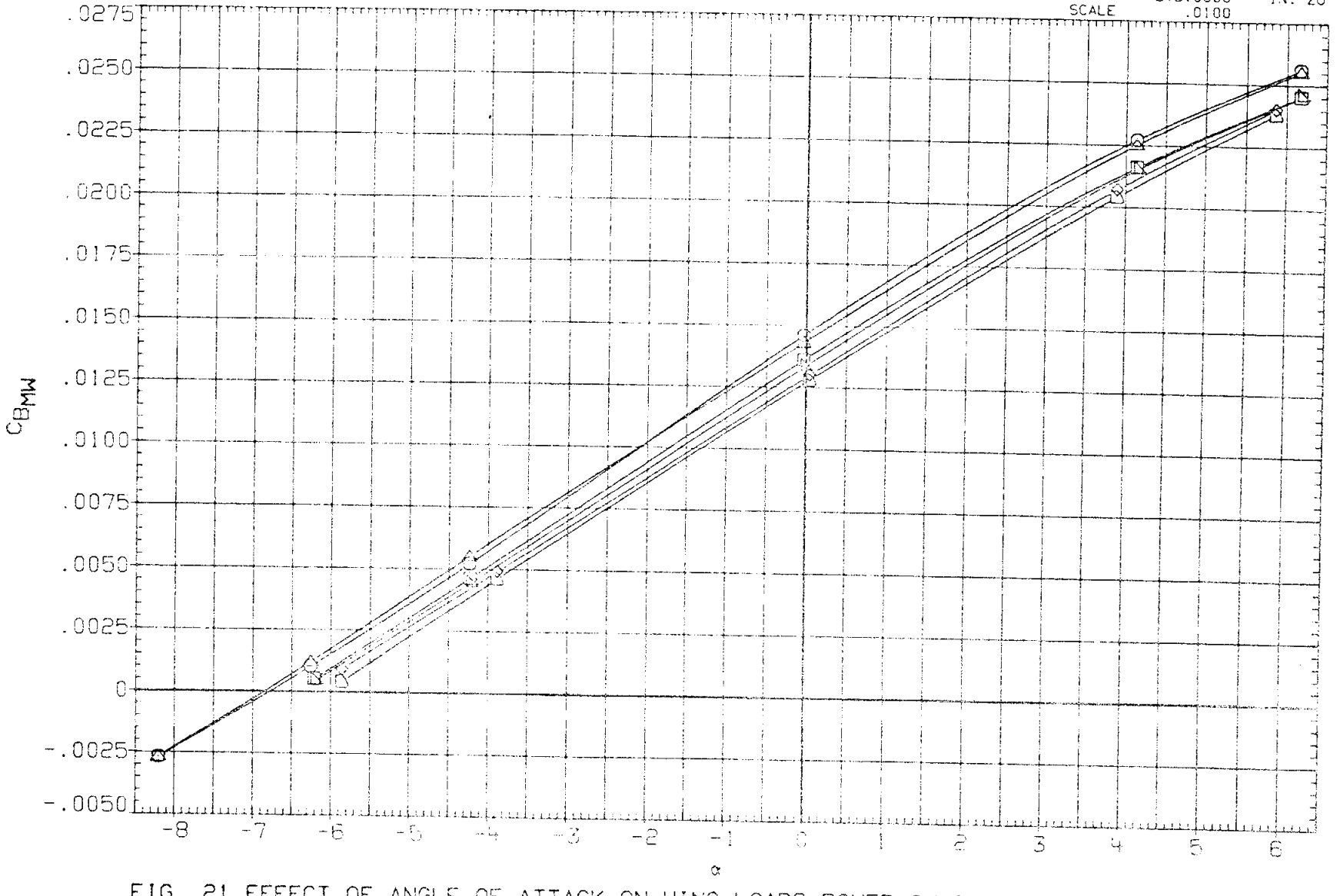

FIG. 21 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(C)BETA = 3.81

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-2.000	1.550	.000	.000
R3D019	□	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-7.000	1.550	.000	.000
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-2.000	1.550	196.379	372.181
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

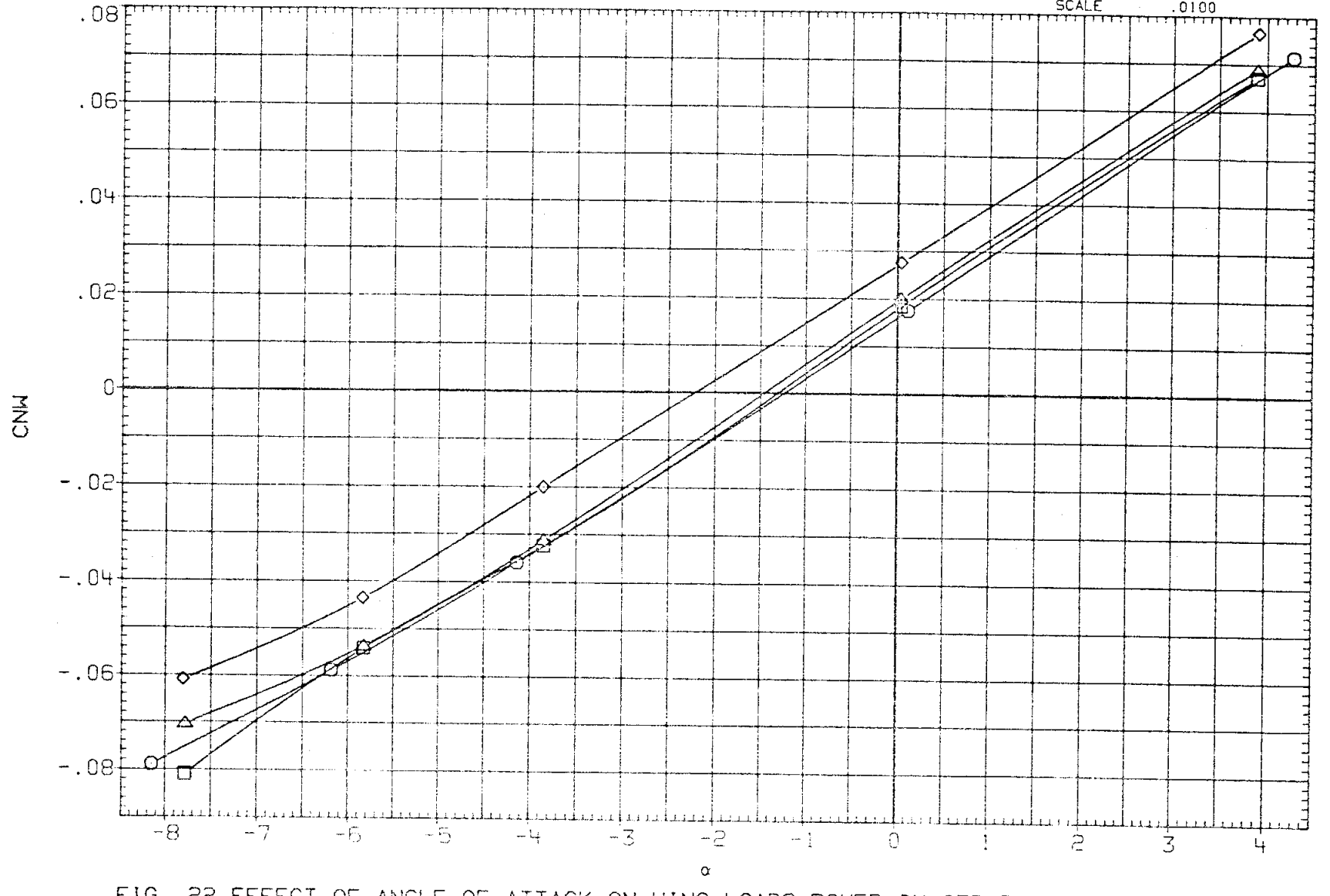

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV IB=8, MACH=1.55

(A) BETA = -4.31

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	195.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

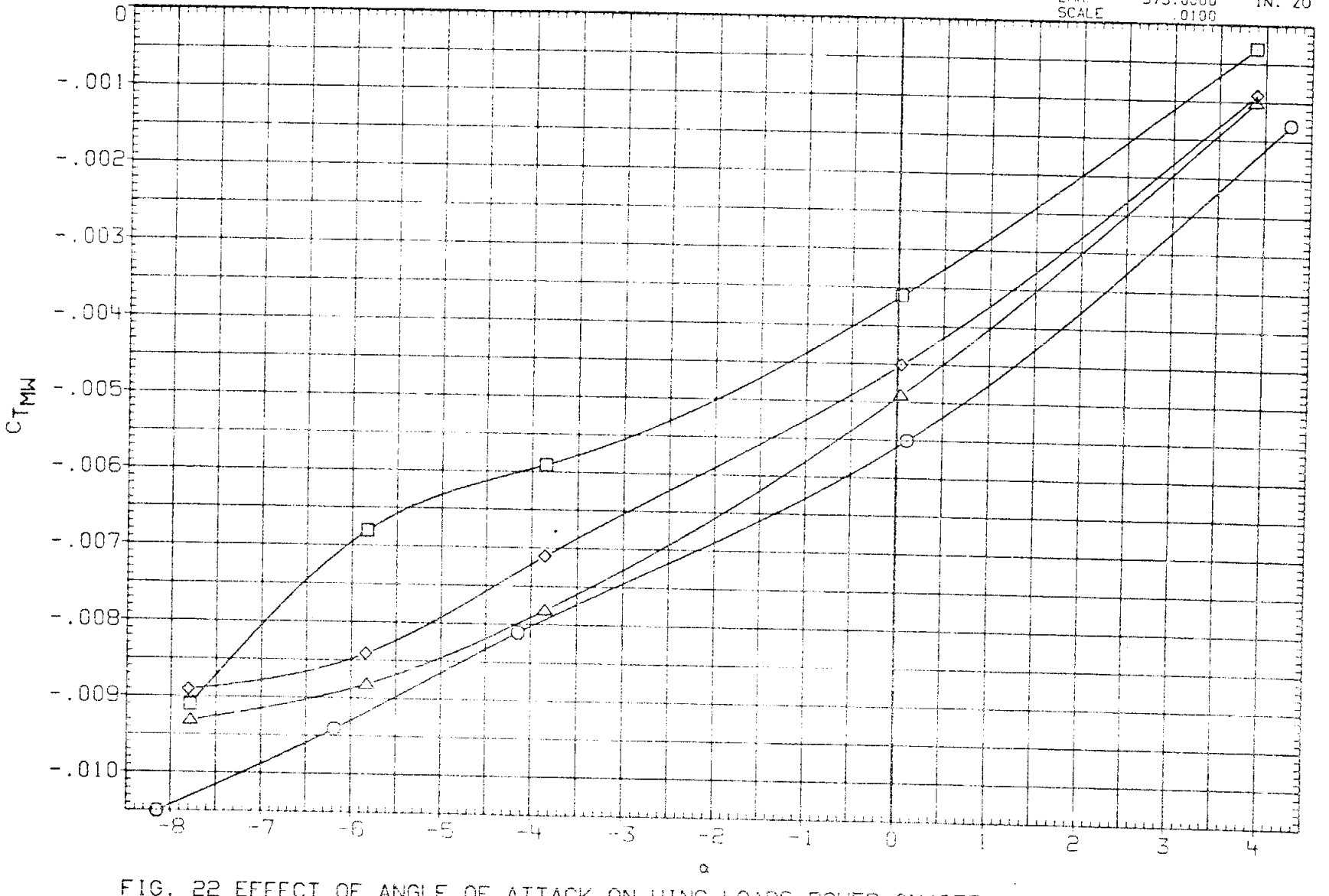

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(A) BETA = -4.31

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF		8.000	-2.000	1.550	.000	.000
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF		8.000	-7.000	1.550	.000	.000
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON		8.000	-2.000	1.550	196.379	372.181
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON		8.000	-7.000	1.550	196.146	1637.353

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6600	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

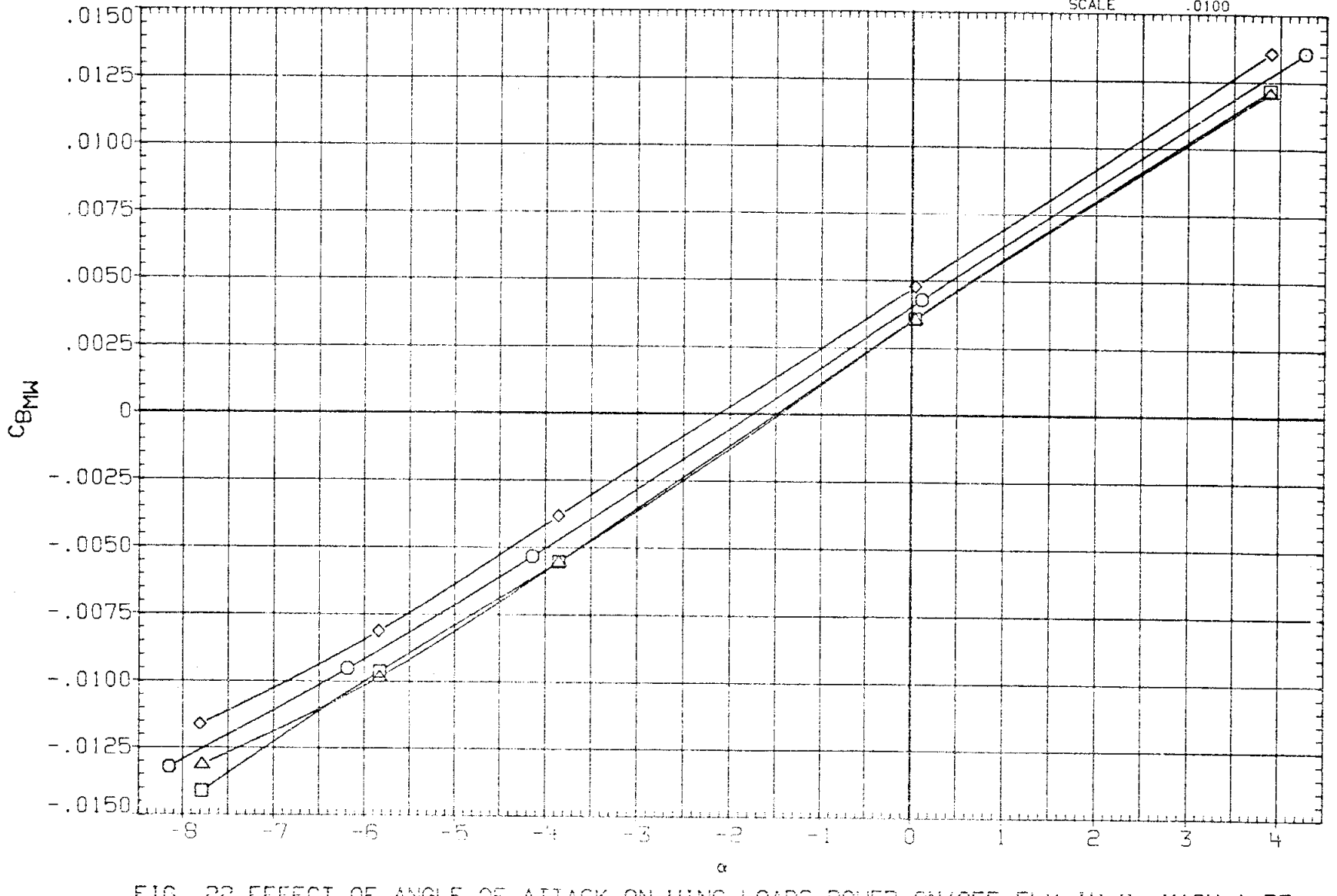

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(A) BETA = -4.31

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

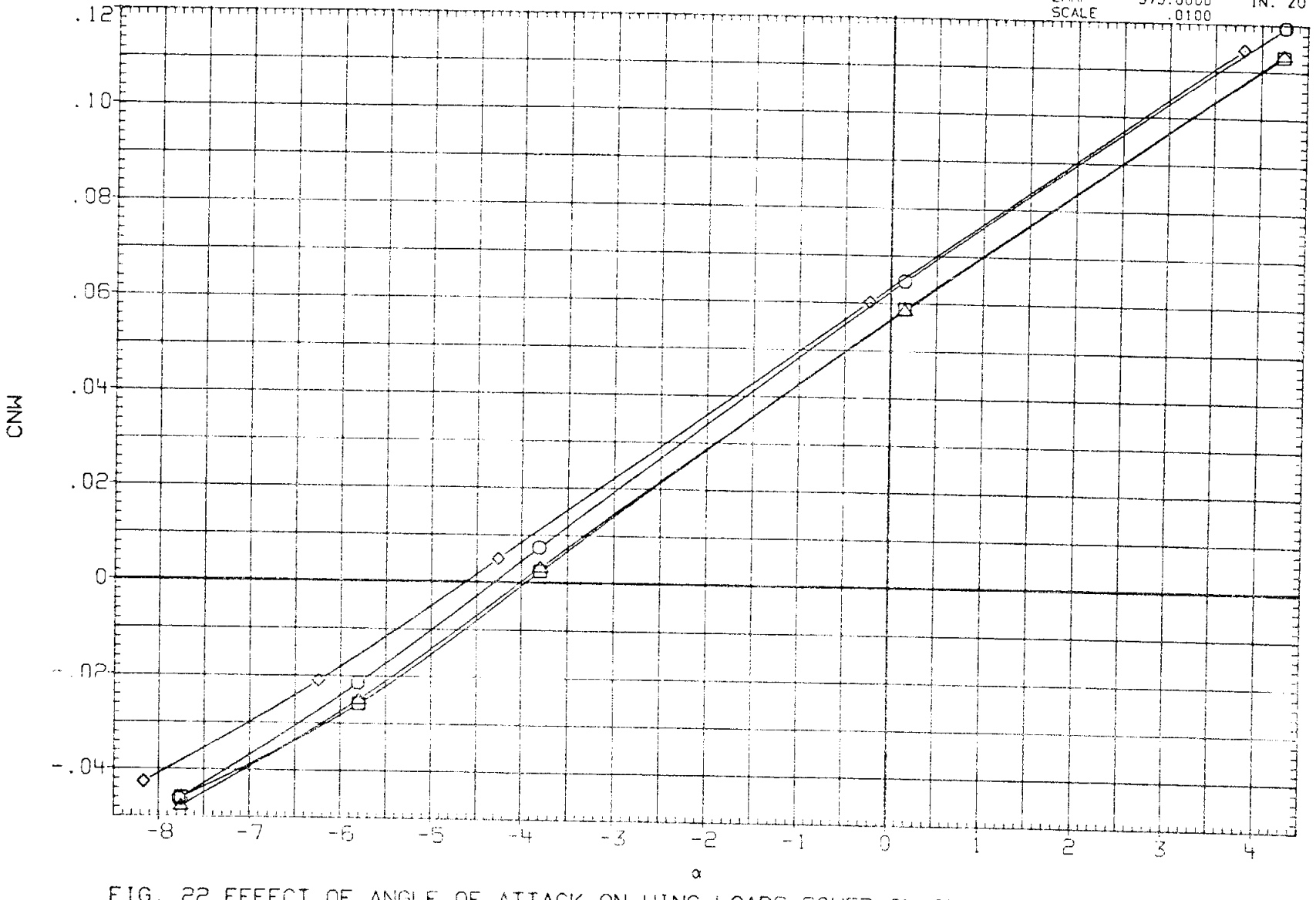

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(B) BETA = -.24

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.187
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

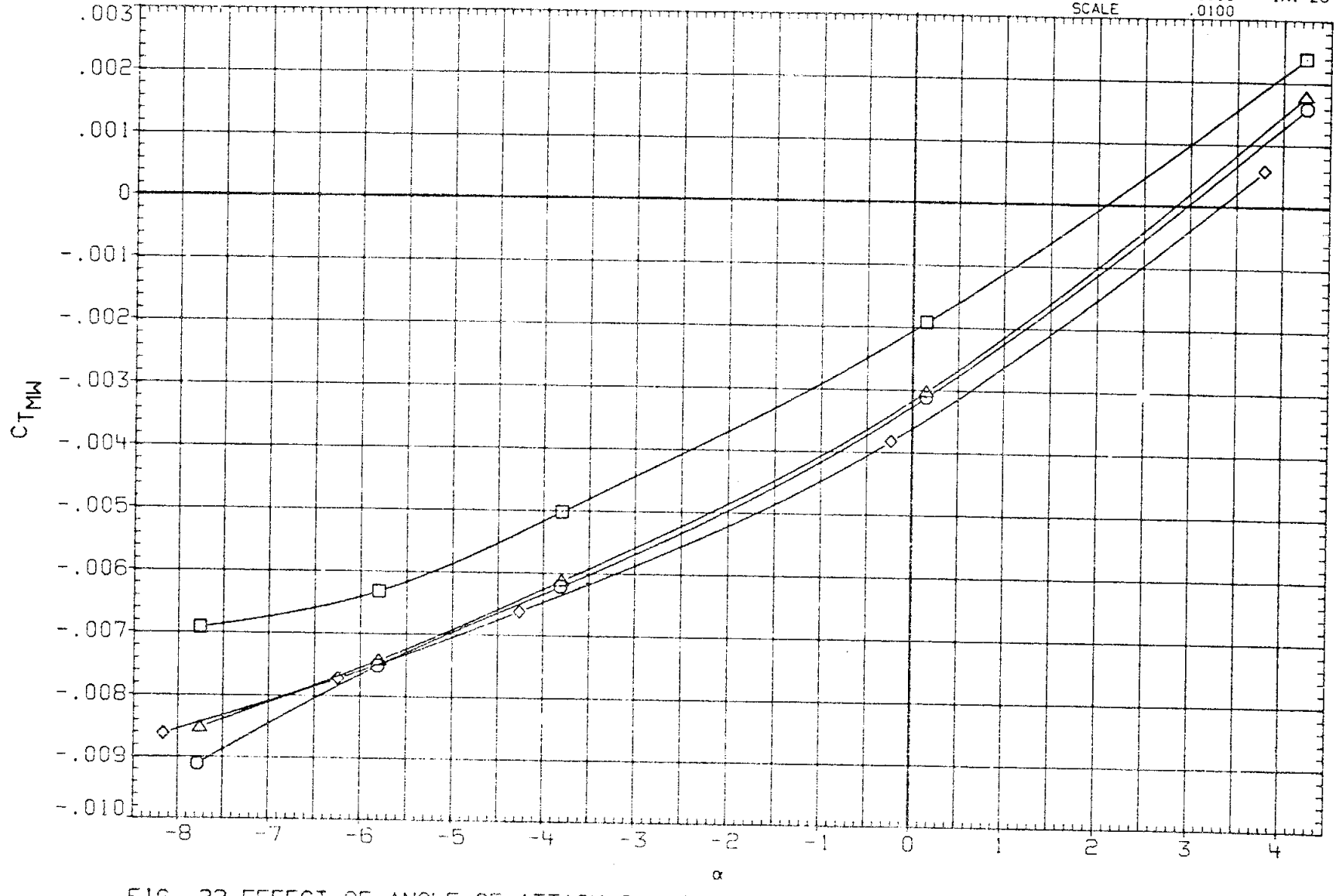

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(B) BETA = -.24

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.191
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

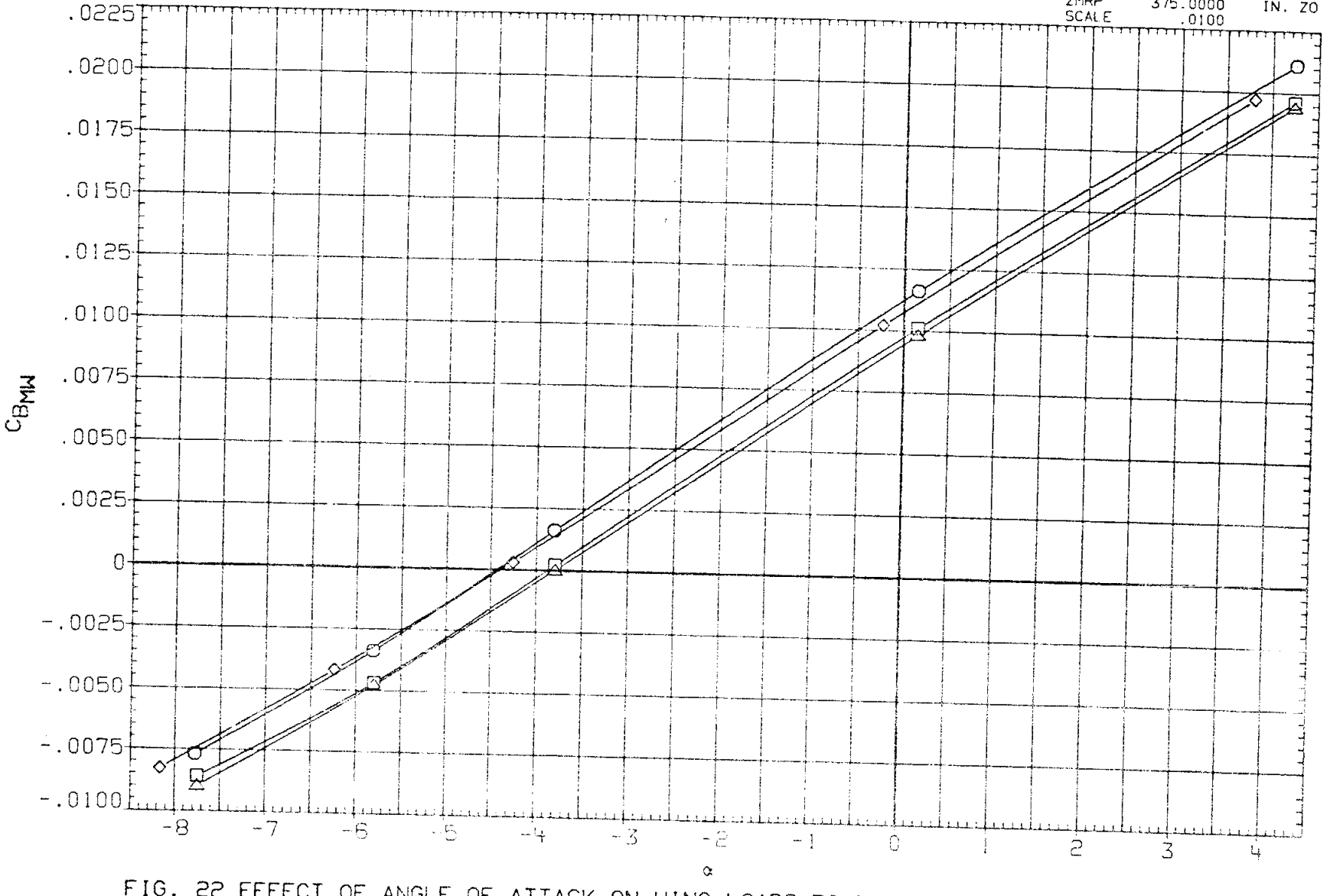

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(B) BETA = -.24

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-2.000	1.550	.000	.000
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-7.000	1.550	.000	.000
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-2.000	1.550	196.379	372.181
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

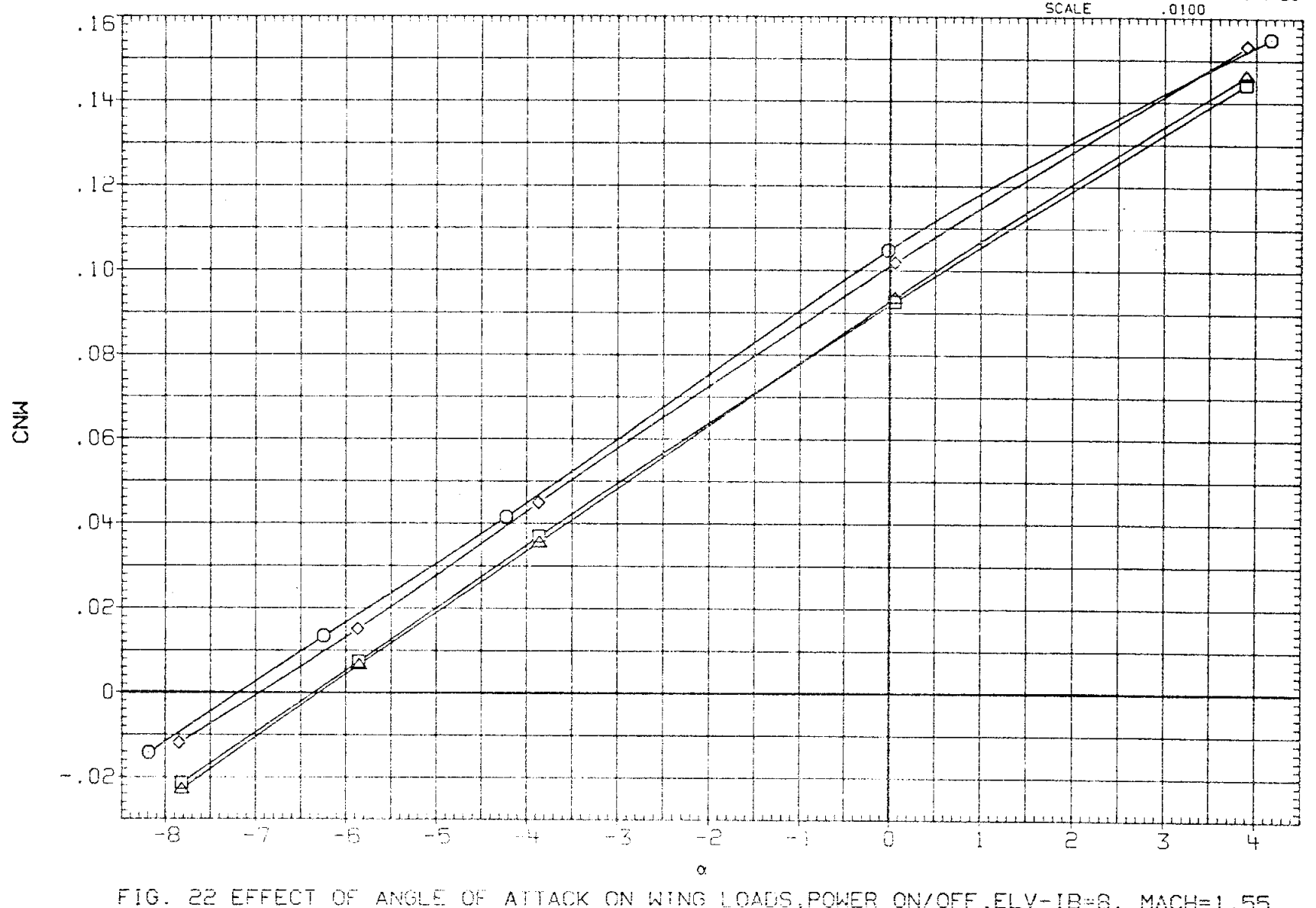

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

DATA SET	SYMBOL	CONFIGURATION			
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

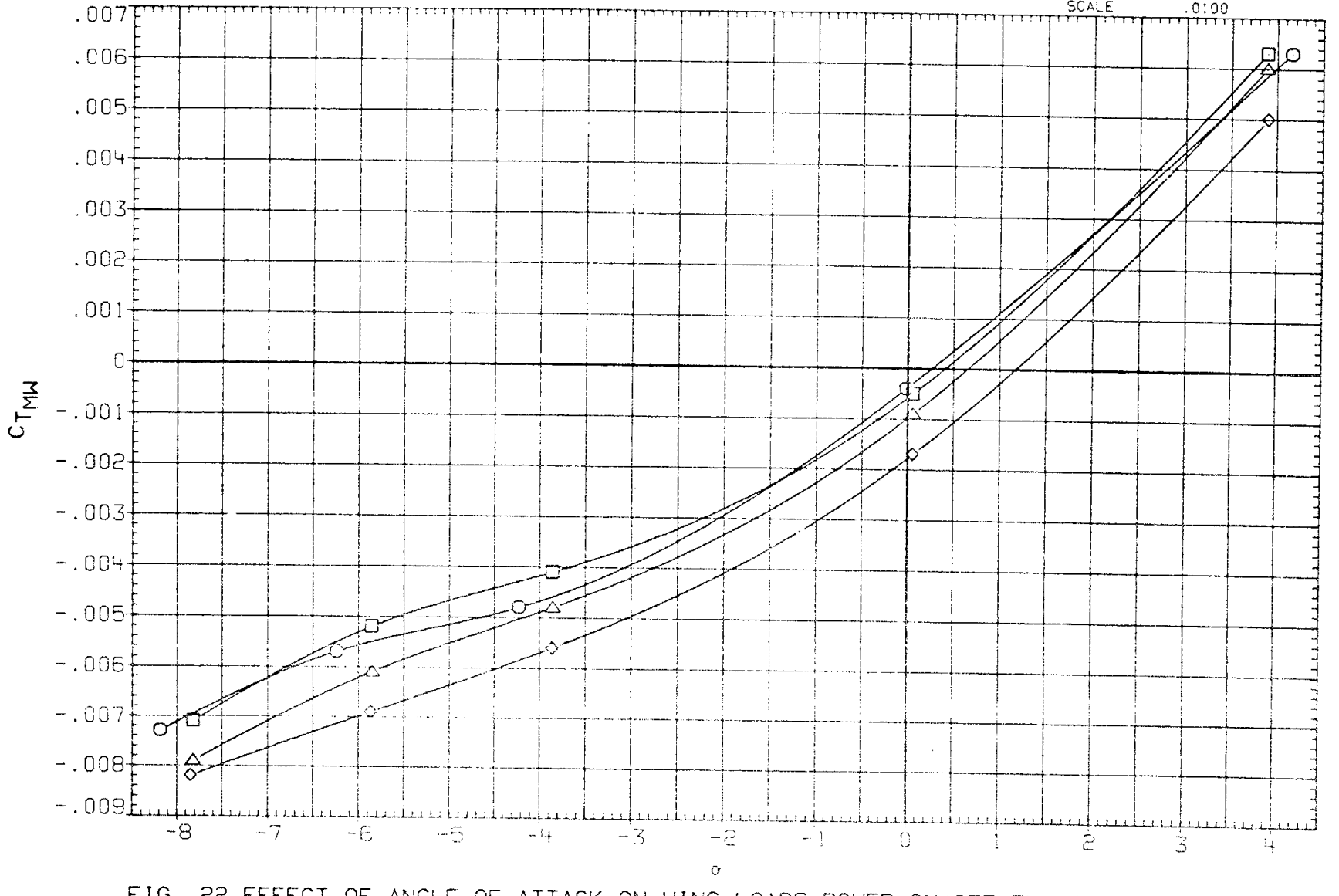

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(C)BETA = 3.72 DATE 17 OCT 78 PAGE 98

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA139 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

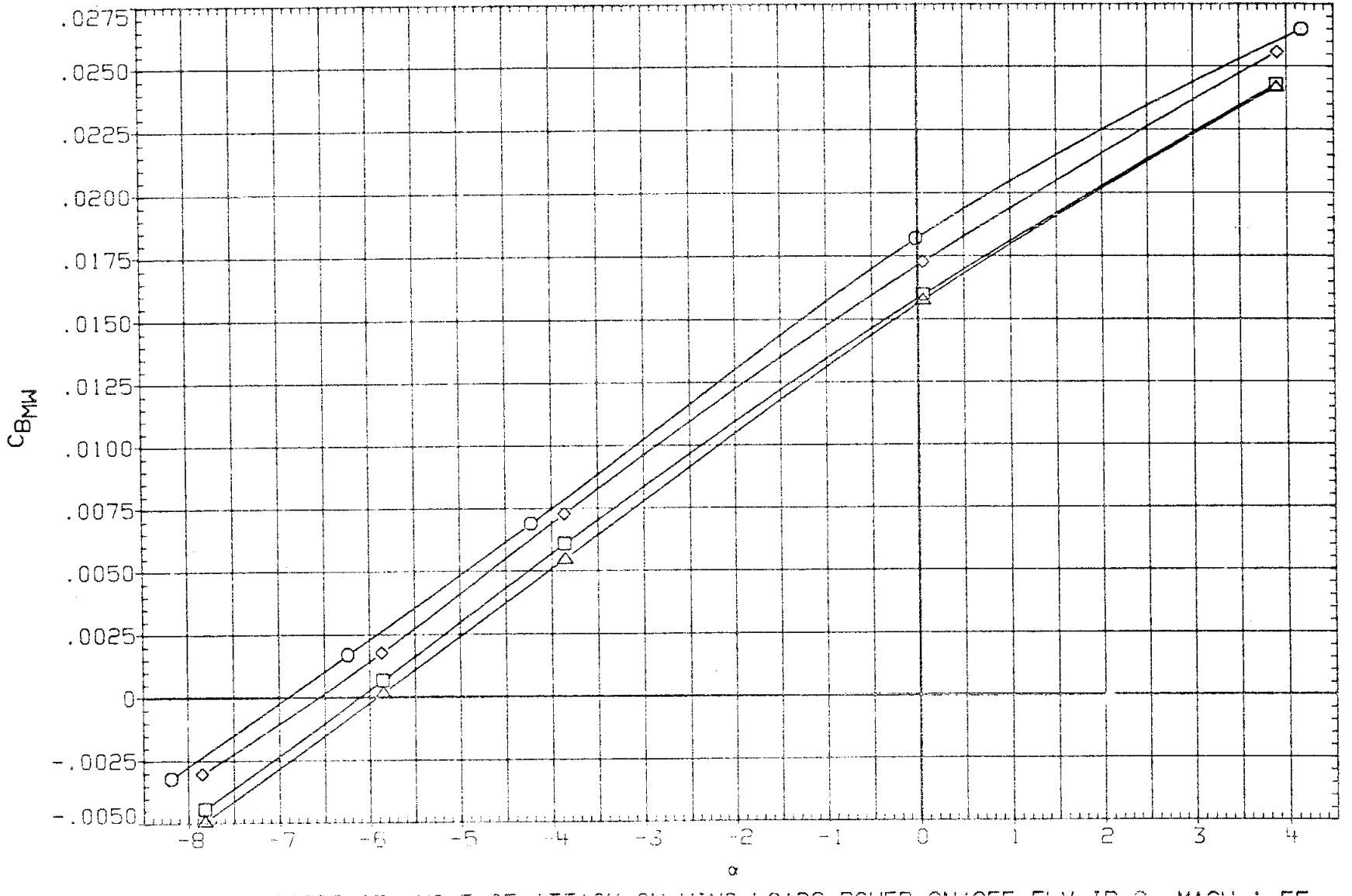

FIG. 22 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=8, MACH=1.55

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D021	○	IA138 AMES 246-1-97 OTS POWER OFF	4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97 OTS POWER ON	4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

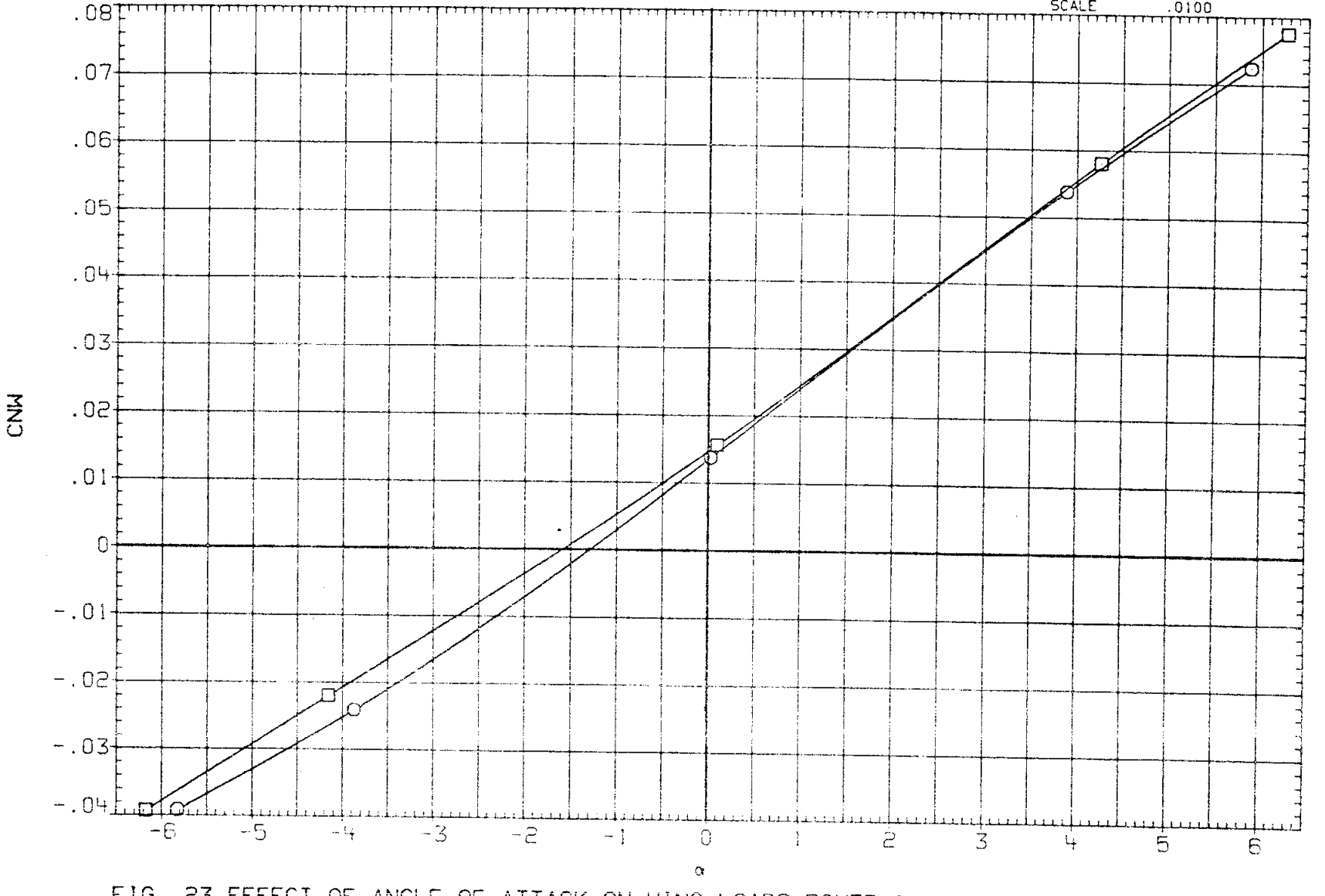

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(A) BETA = -4.08

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREFR	SSMEPR
R3D021	○	IA138 AMES 246-1-97 OTS POWER OFF	4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97 OTS POWER ON	4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2600.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	930.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

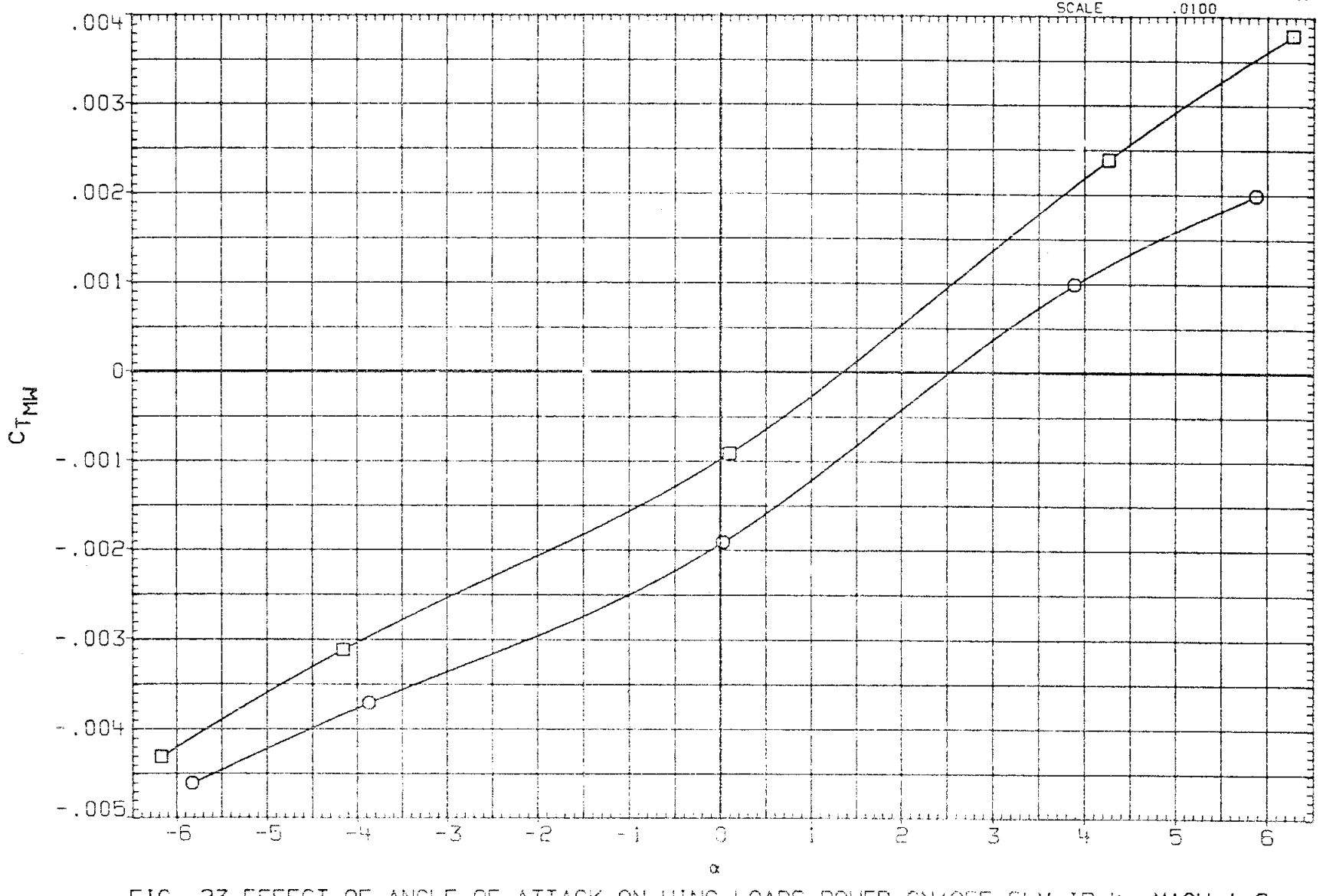

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

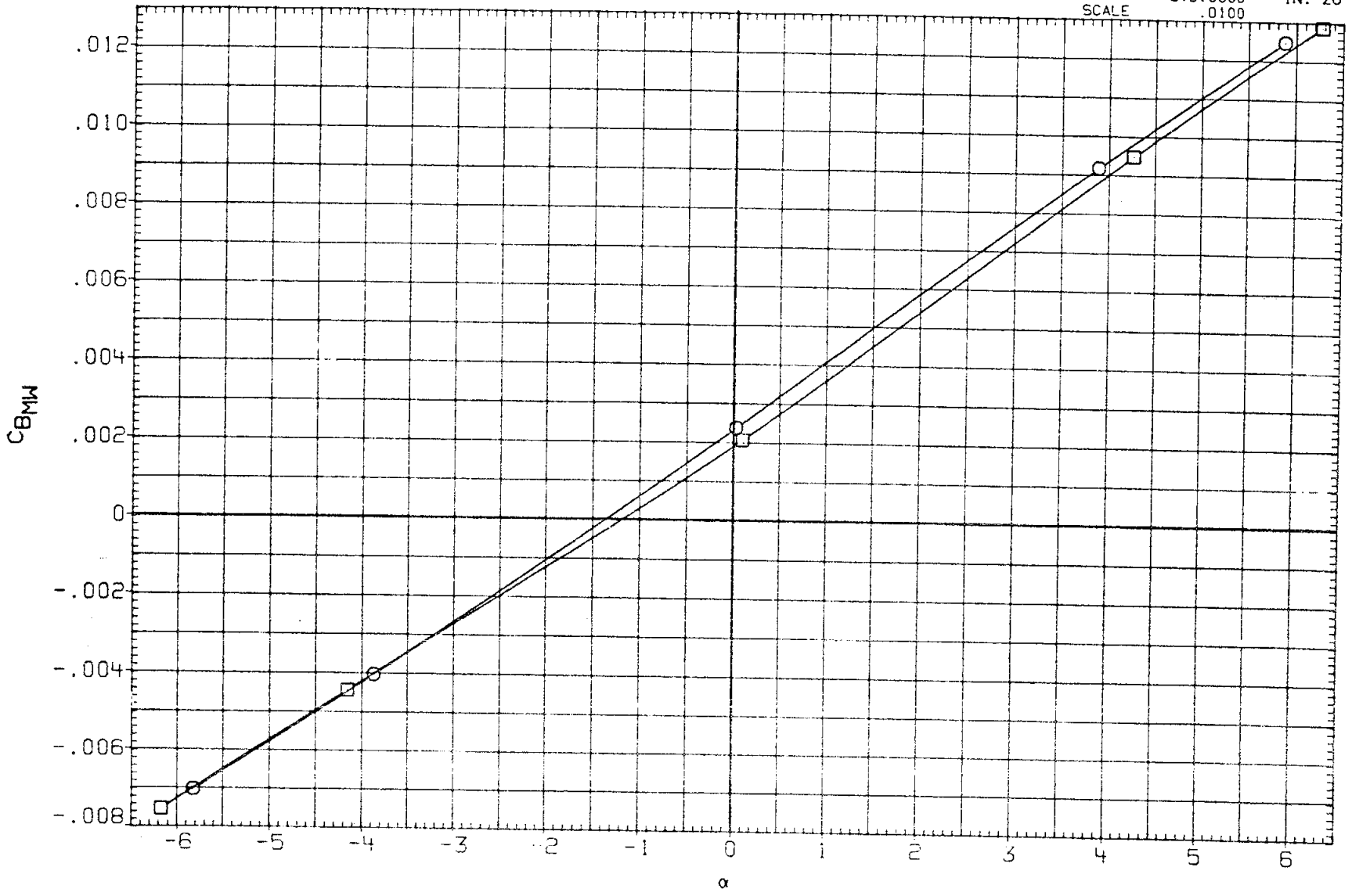

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(A) BETA = -4.08

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DATA SET	SYMBOL	CONFIGURATION			
R30021	○	1A138 AMES 246-1-97	OTS	POWER OFF	
P30051	□	1A138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

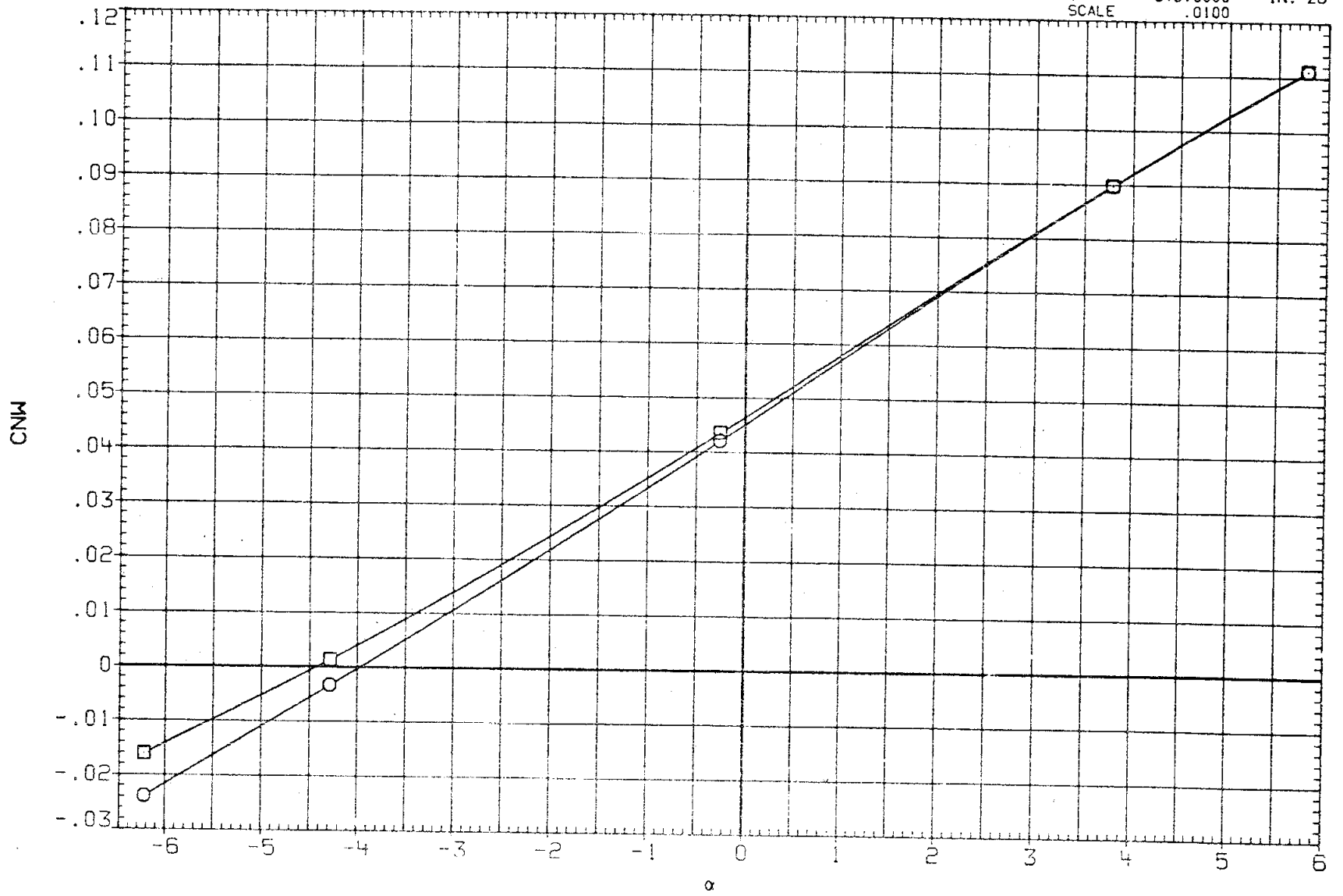

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(B) BETA = -.21

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DATA SET	SYMBOL	CONFIGURATION			
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

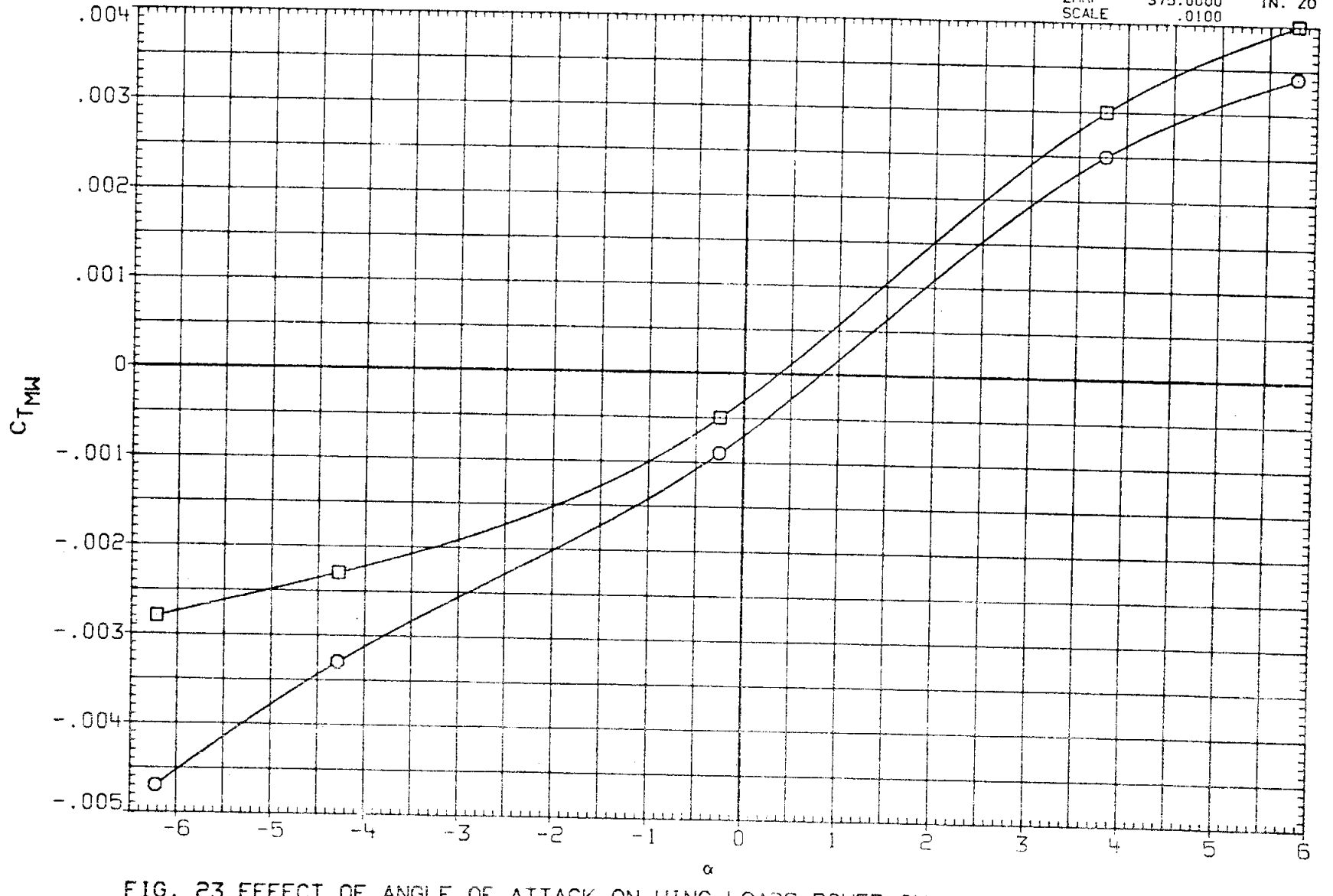

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(B) BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF		4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON		4.000	-5.000	1.800	273.284	477.177

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

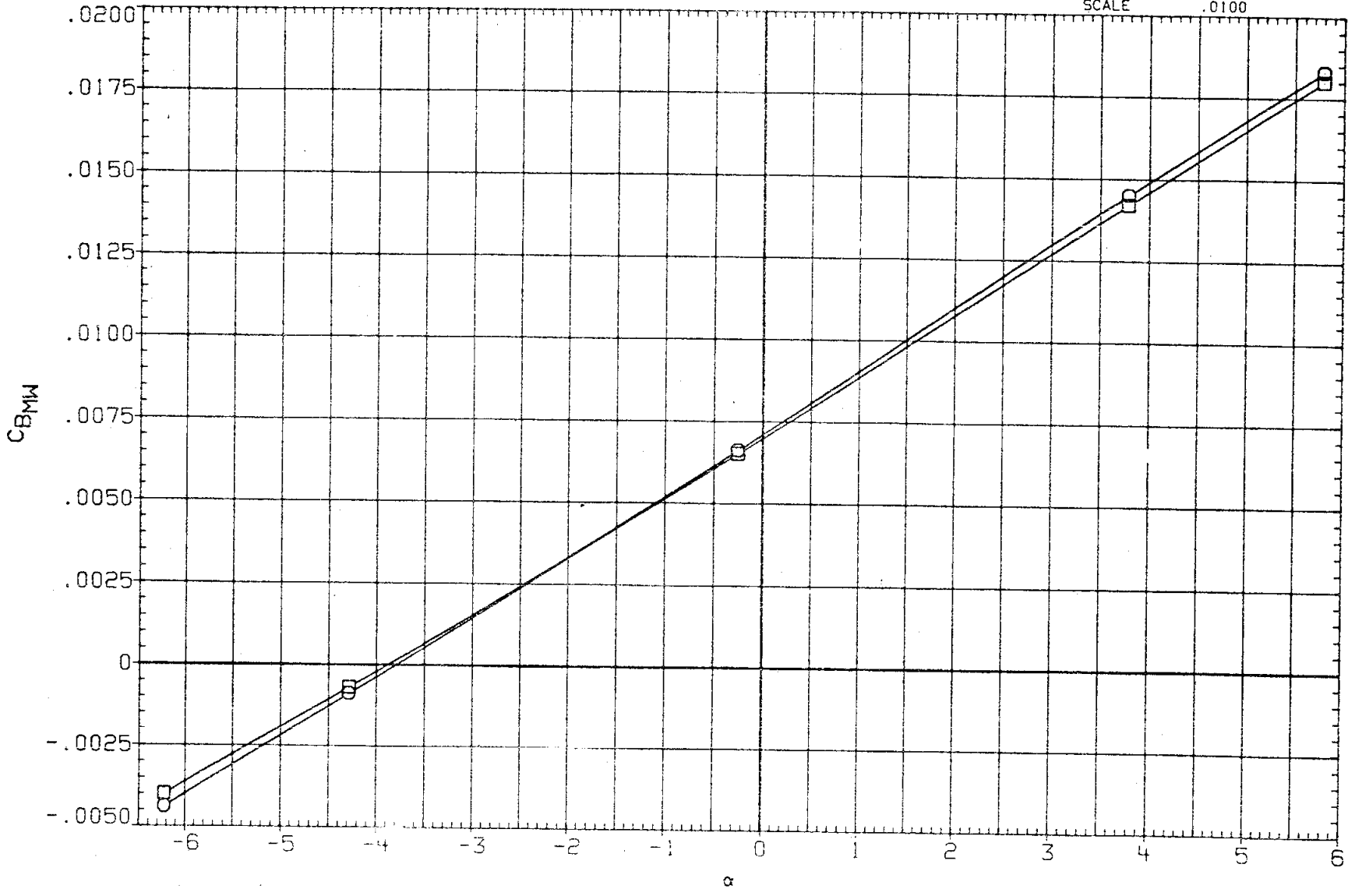

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(B)BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D061	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

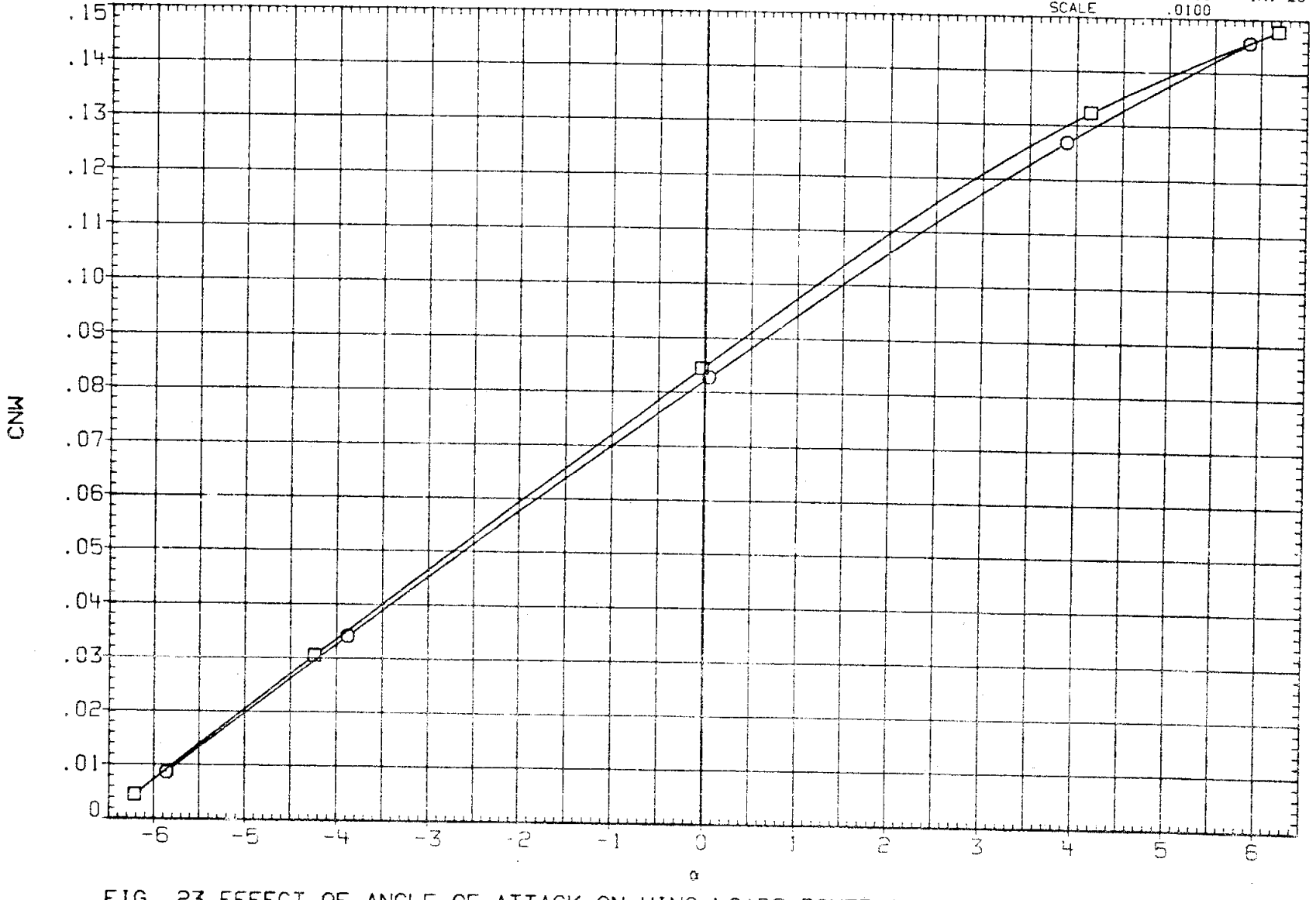

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(C)BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D021	○	IA138 AMES 246-1-97 OTS POWER OFF	4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97 OTS POWER ON	4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

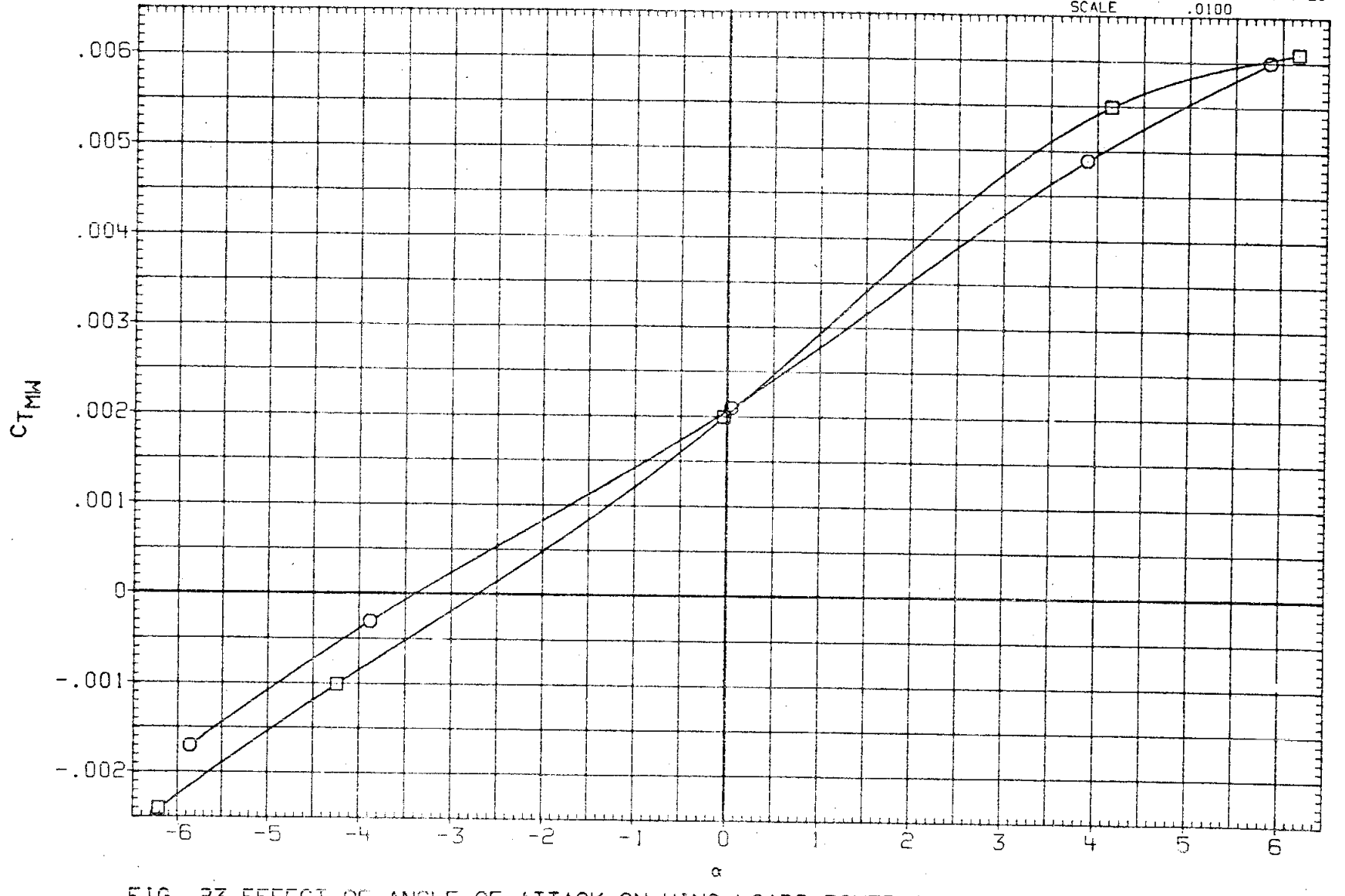

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(C)BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

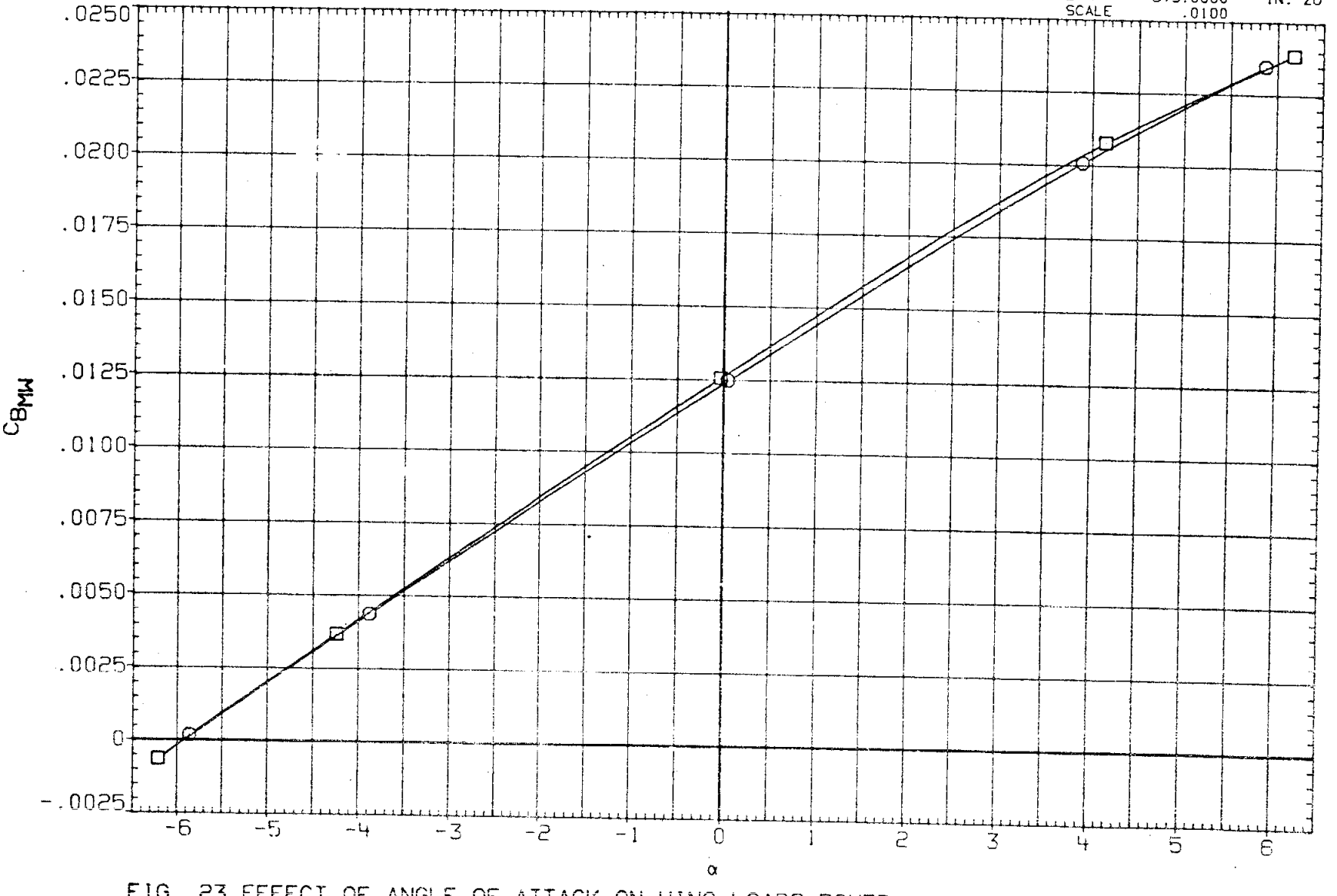

FIG. 23 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(C)BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D052	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D054	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(A)BETA = -4.07

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D049	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D052	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D054	▱	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

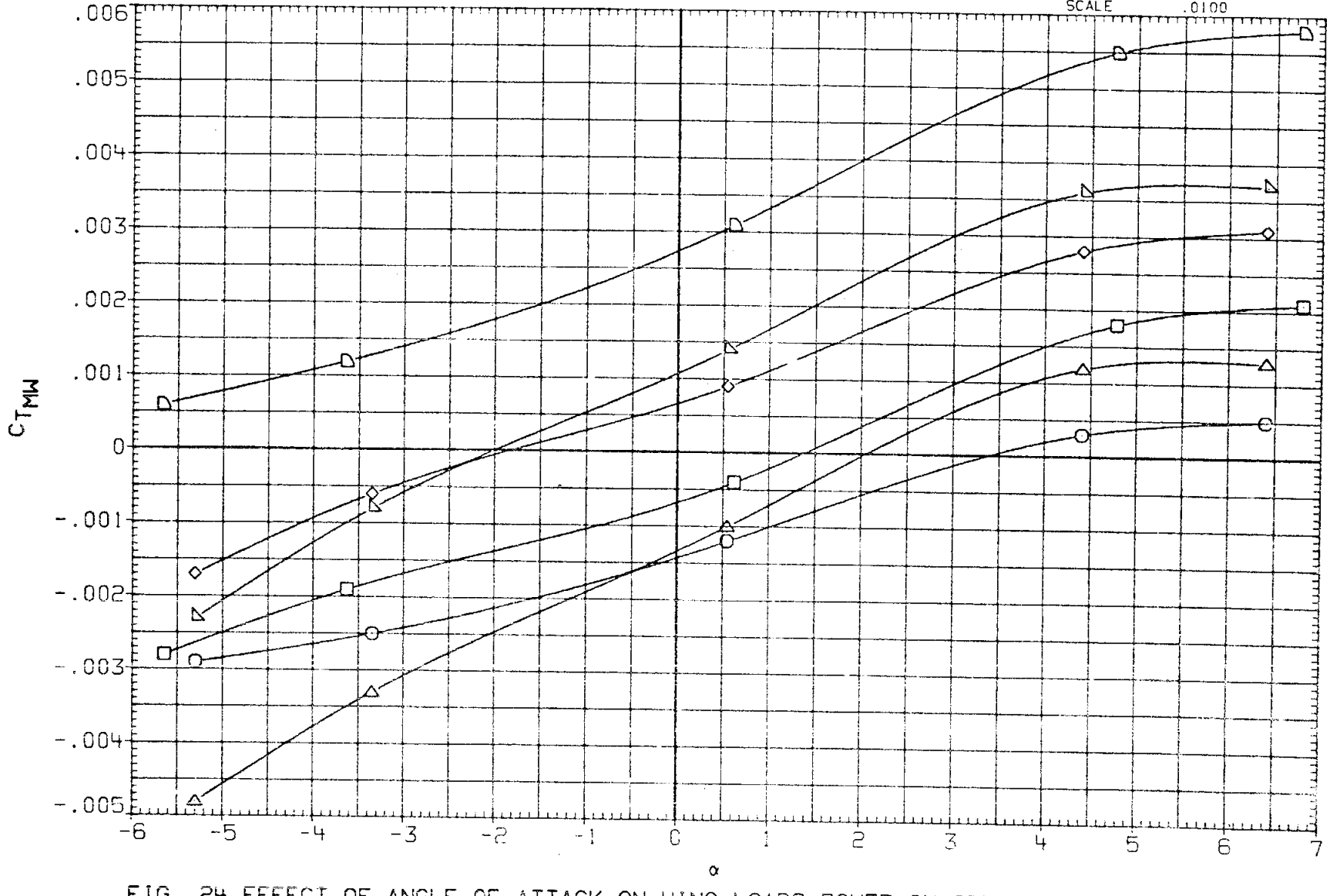

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(A) BETA = -4.07

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

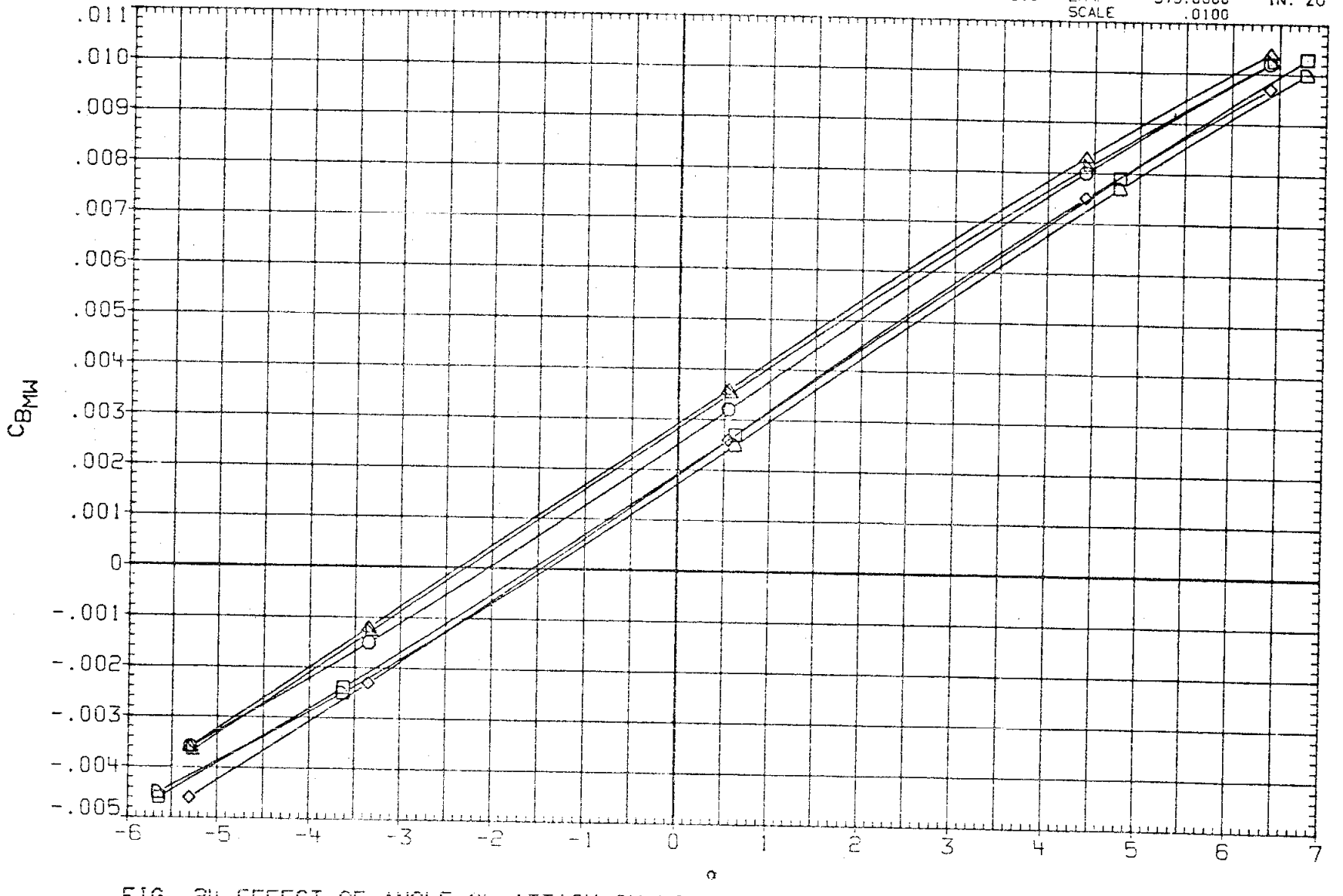

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(A) BETA = -4.07

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R3D019	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D022	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D024	◇	IA138 AMES 246-1-97 OTS POWER OFF
R3D049	△	IA138 AMES 246-1-97 OTS POWER ON
R3D052	▽	IA138 AMES 246-1-97 OTS POWER ON
R3D054	▷	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.5800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

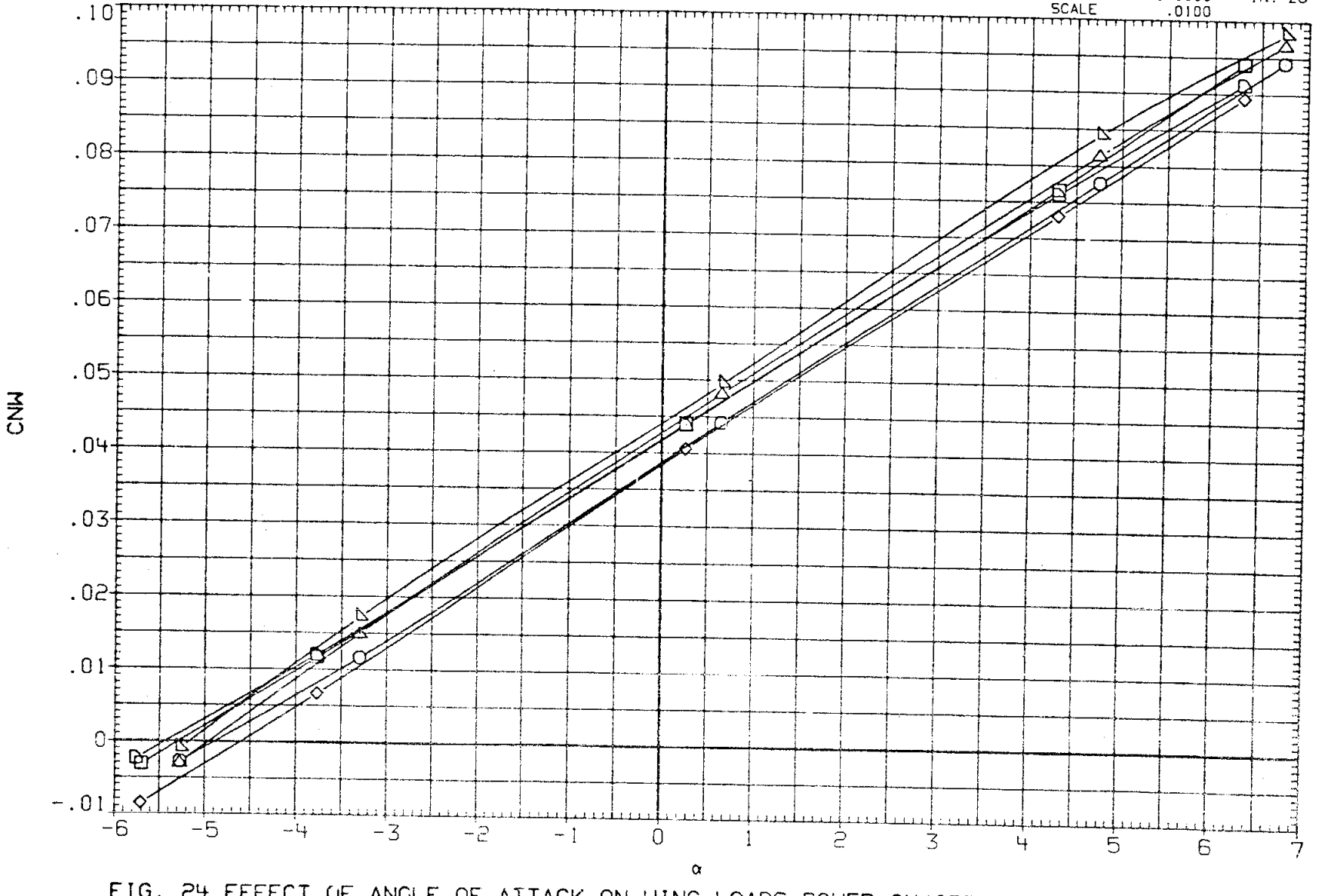

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

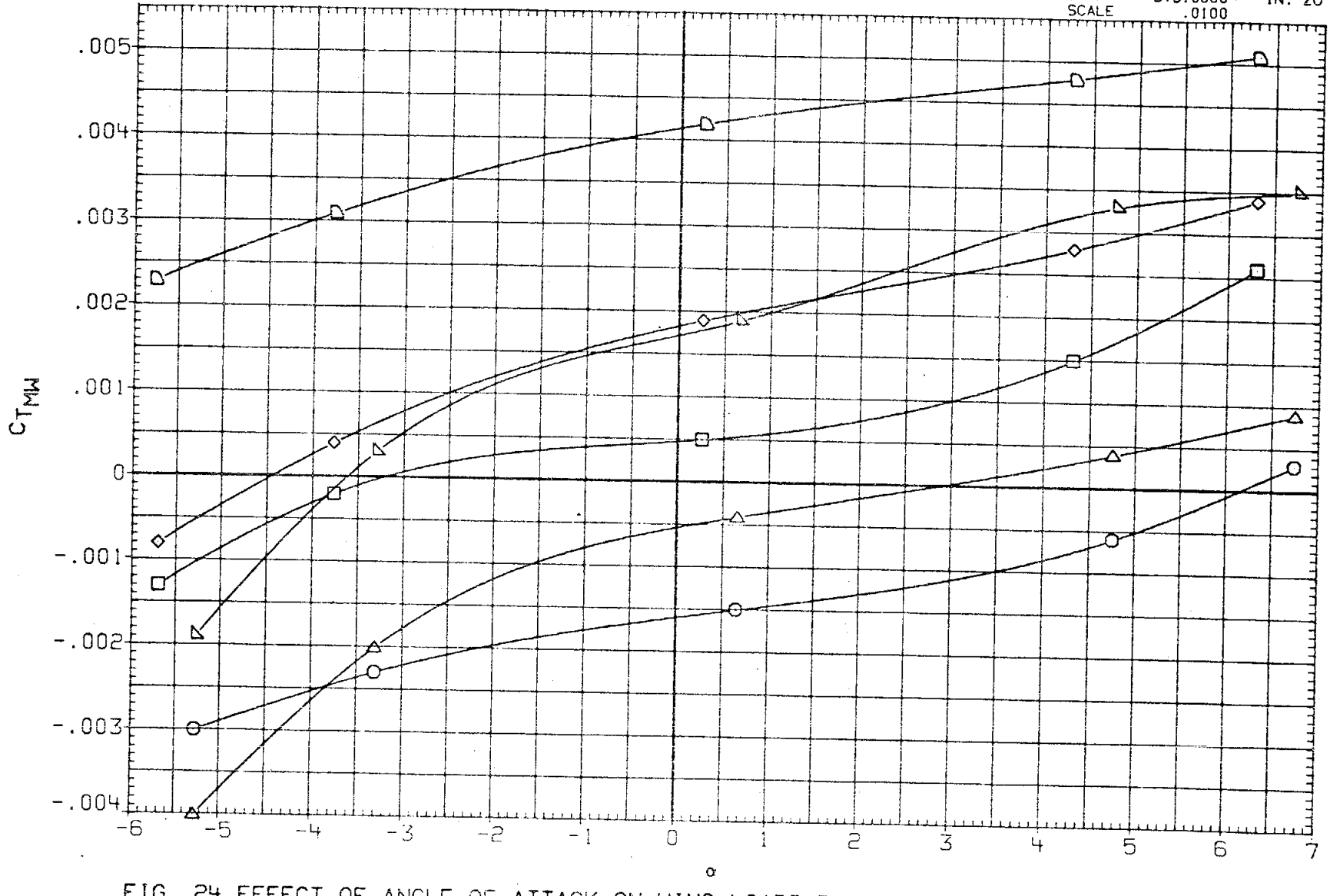

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	⬠	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

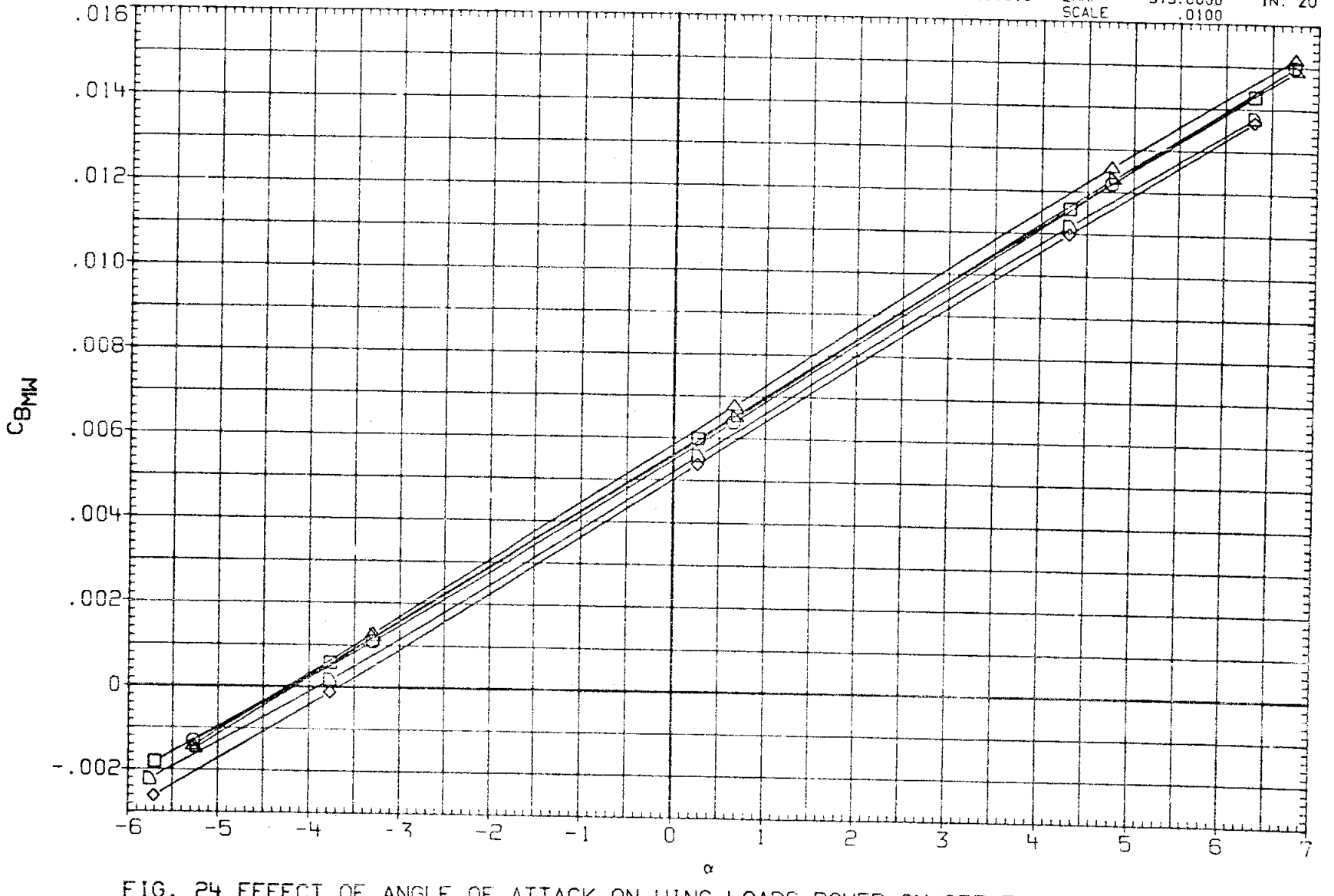

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D052	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D054	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

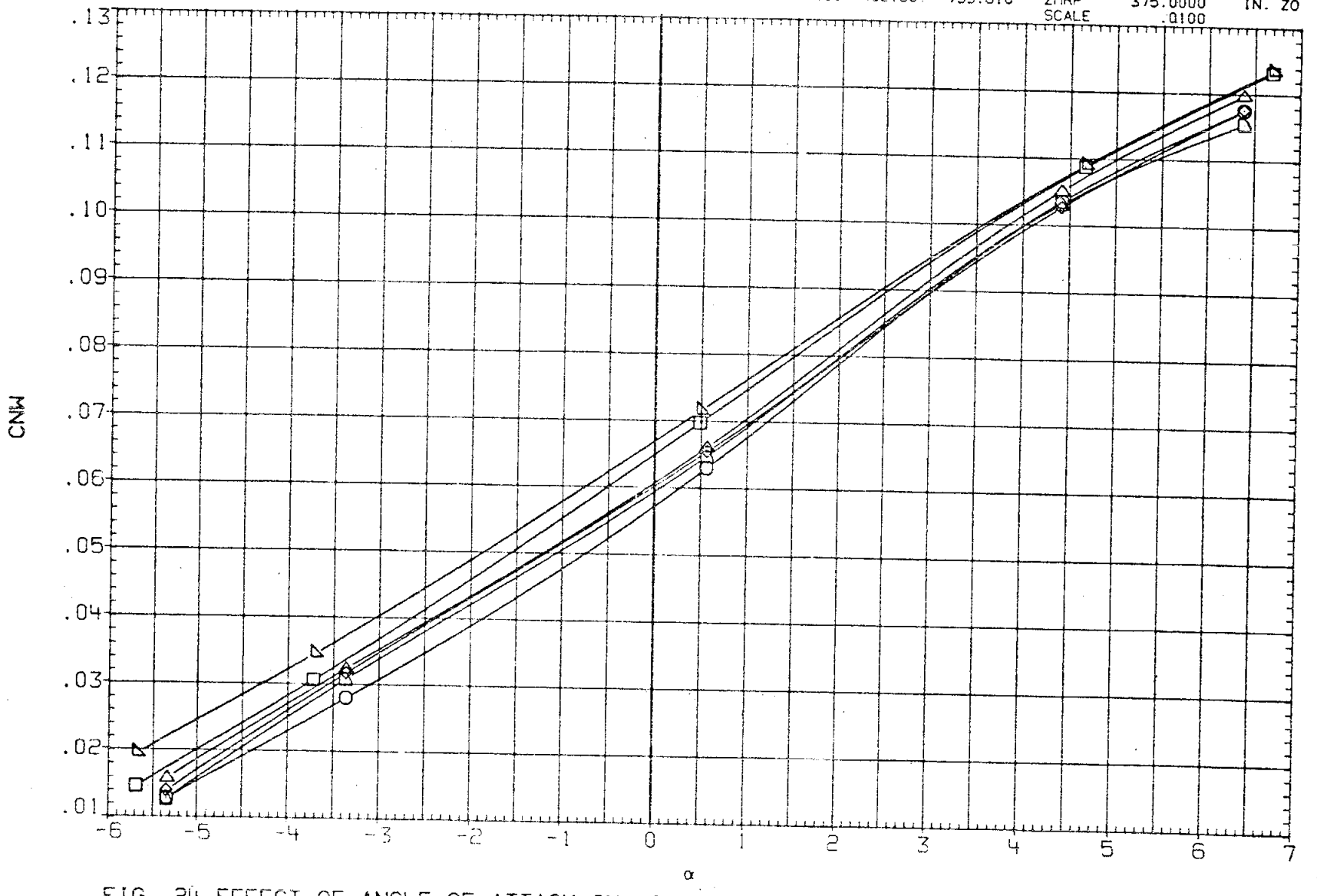

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(C)BETA = 3.70

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OS	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

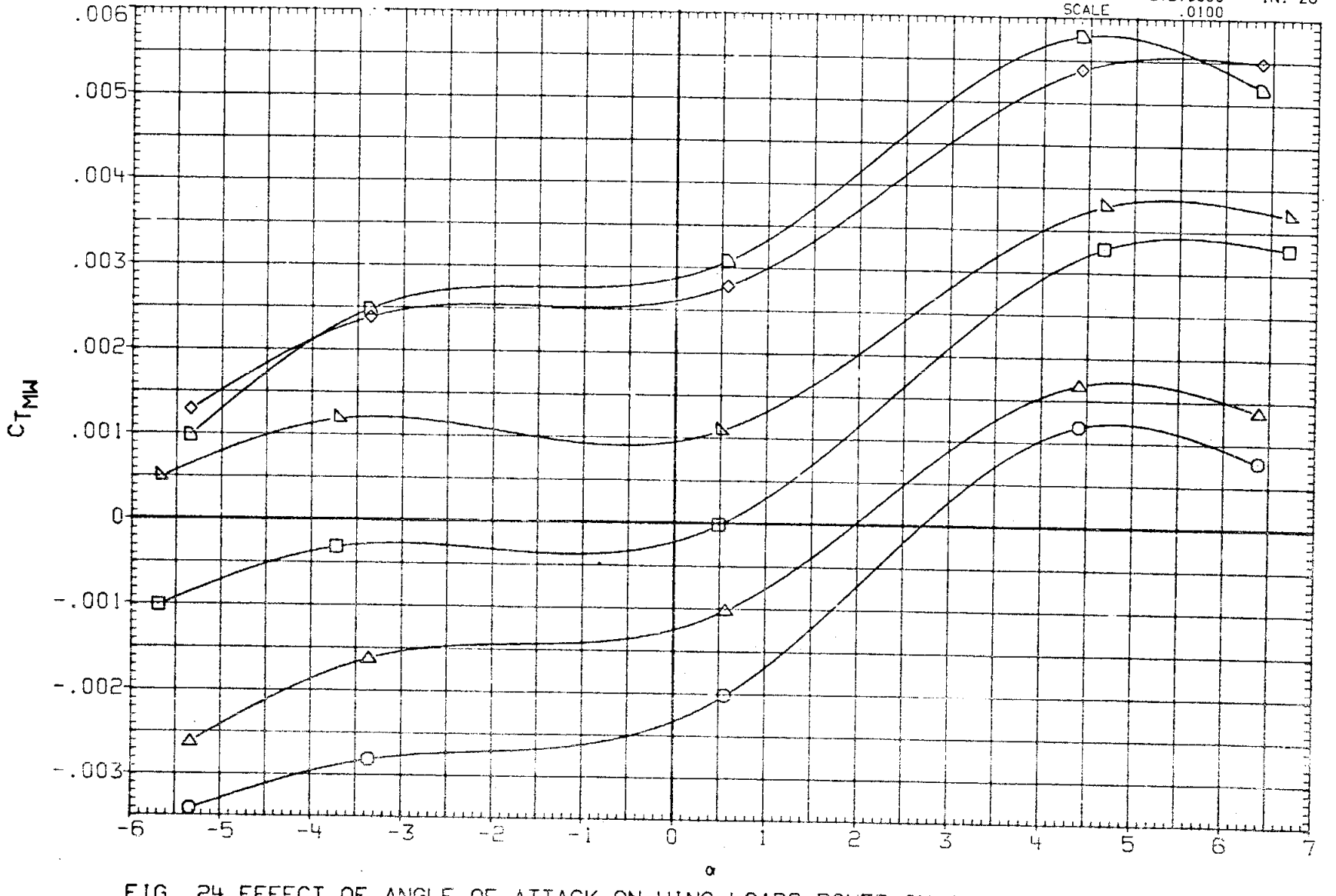

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(C)BETA = 3.70

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	⬠	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	735.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

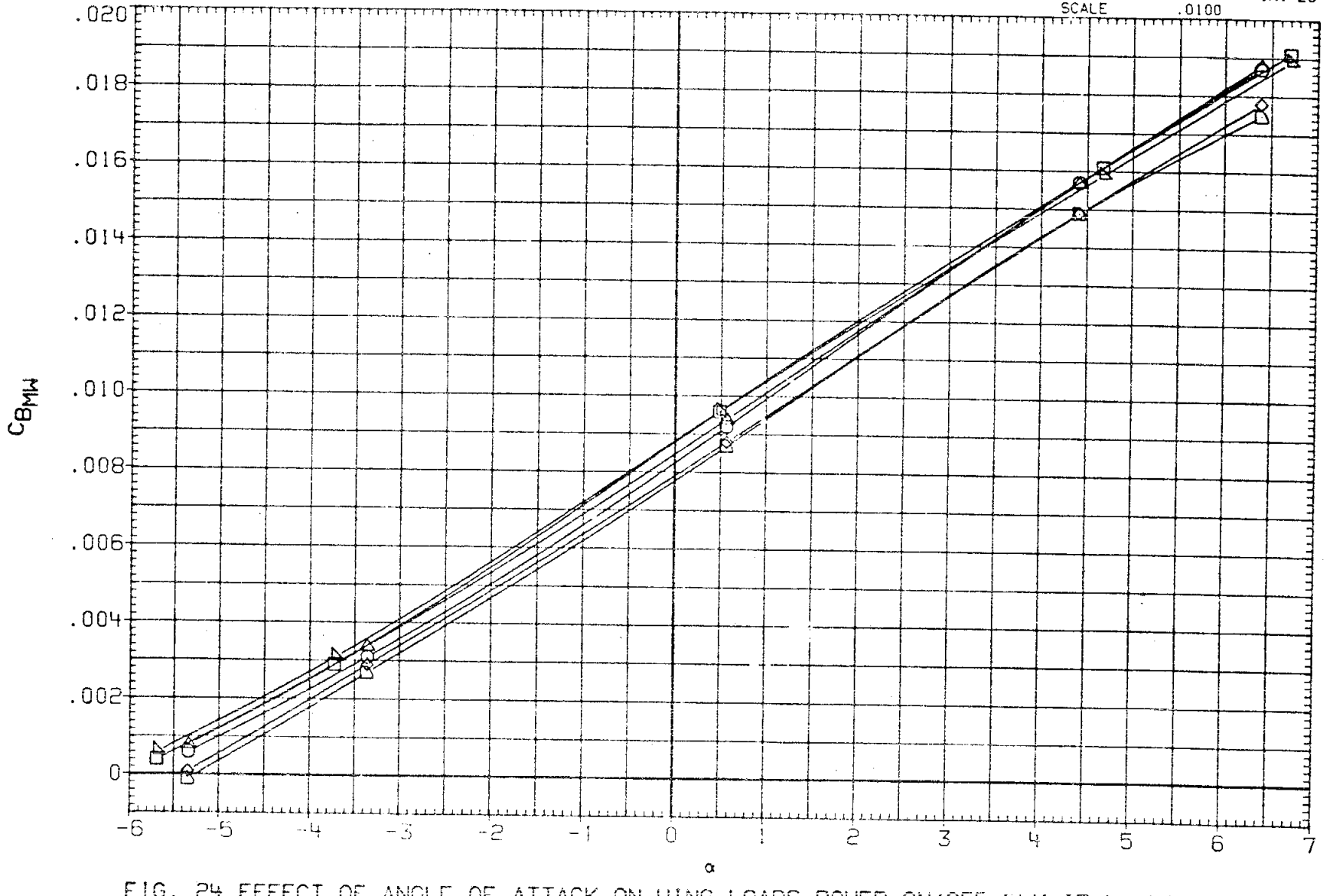

FIG. 24 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(C)BETA = 3.70

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D053	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D055	▱	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.095
4.000	2.000	2.500	743.821	1312.481

PEFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

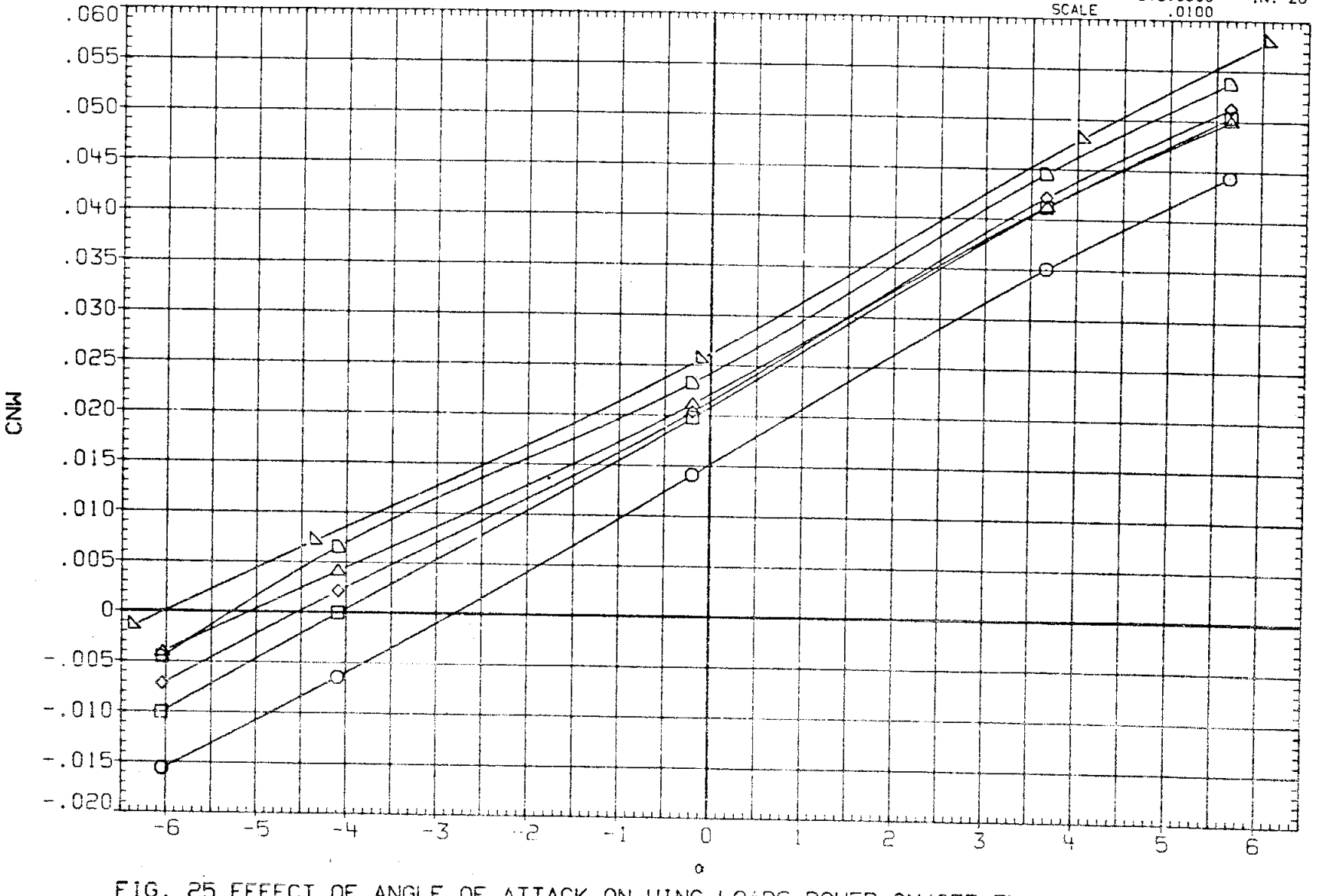

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D055	▱	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

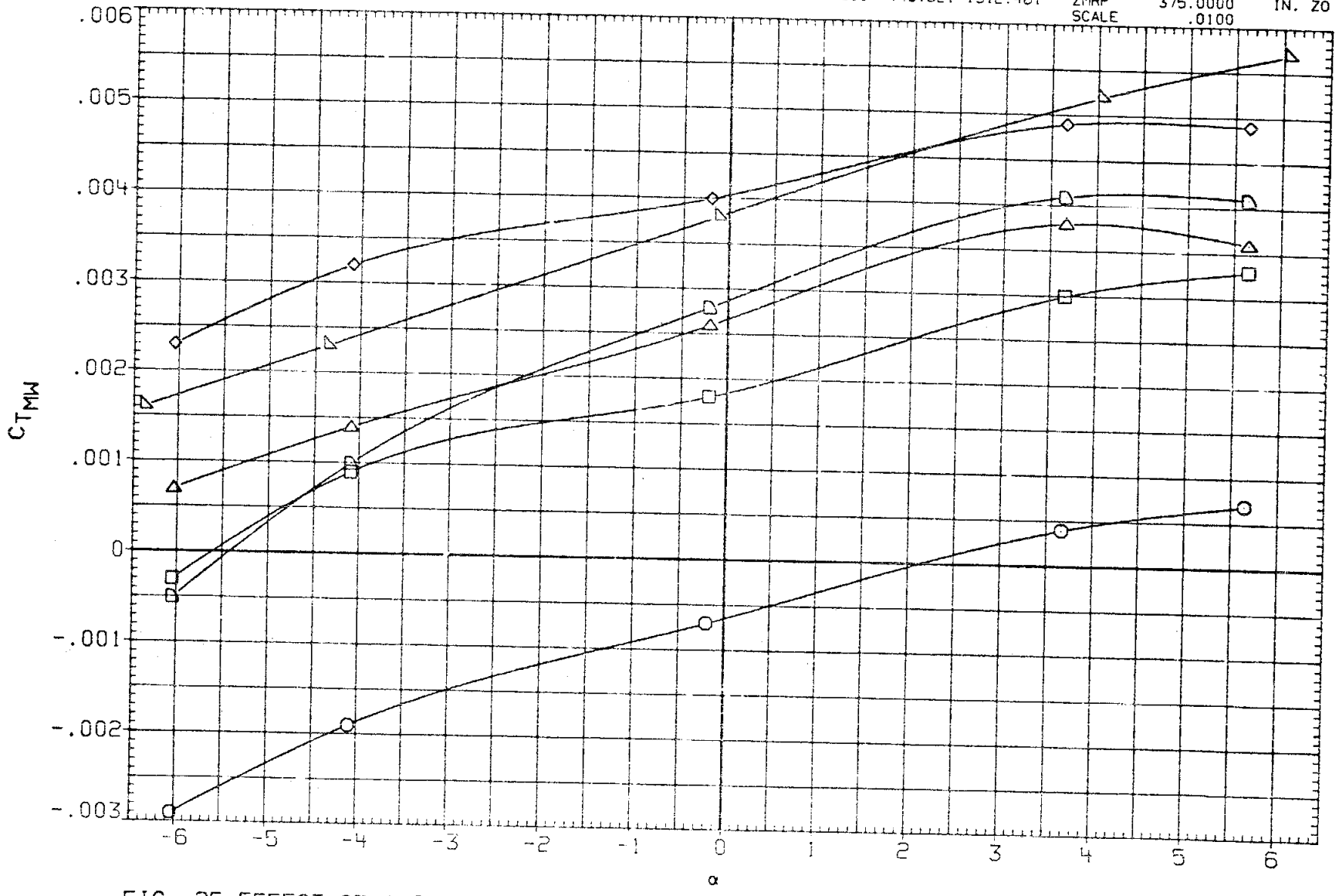

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D020	○	IA138 AMES 246-1-97	CTS	POWER OFF
R3D023	□	IA138 AMES 246-1-97	CTS	POWER OFF
R3D025	◇	IA138 AMES 246-1-97	CTS	POWER OFF
R3D050	△	IA138 AMES 246-1-97	CTS	POWER ON
R3D053	◁	IA138 AMES 246-1-97	CTS	POWER ON
R3D055	D	IA138 AMES 246-1-97	CTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

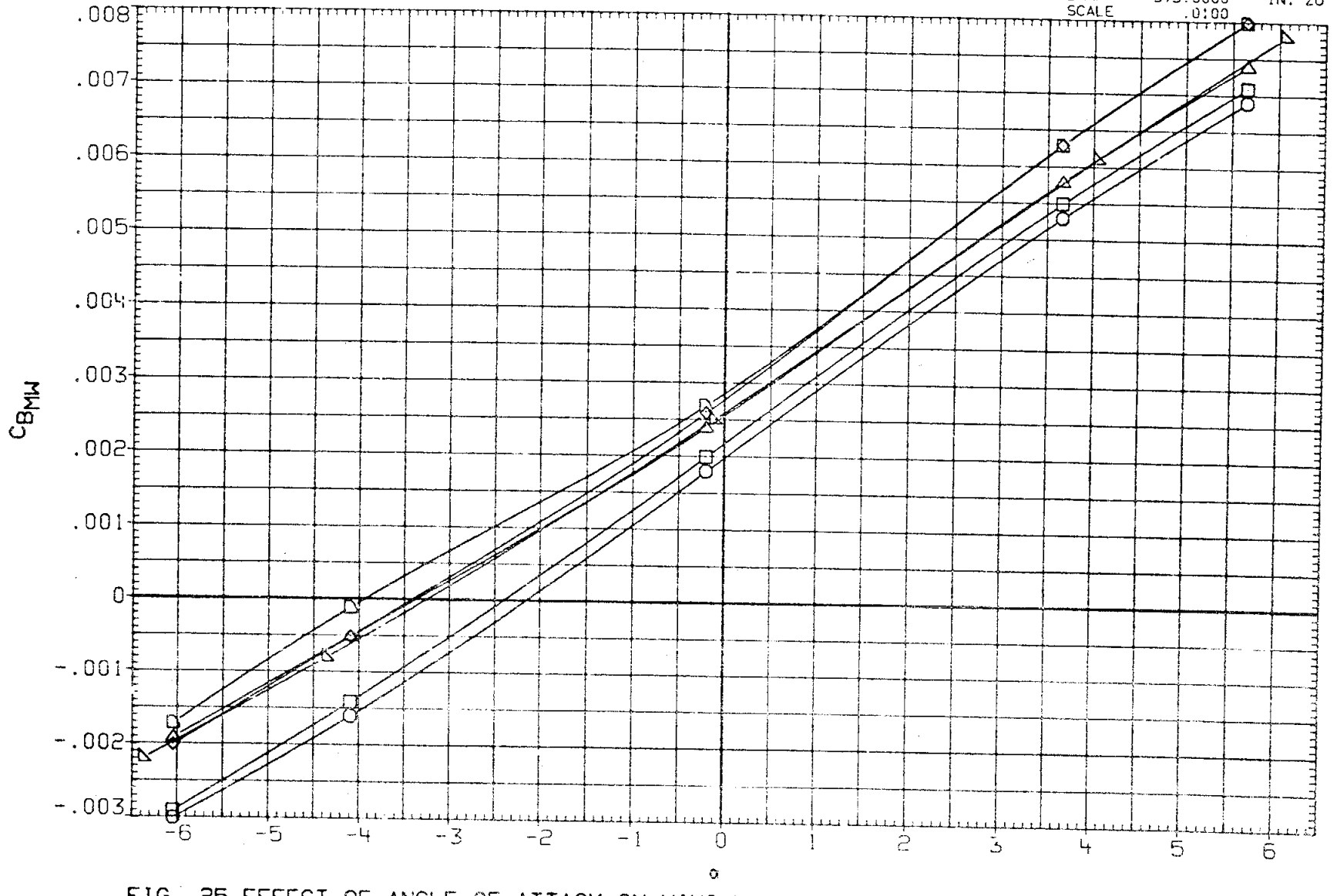

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R30020	○	IA138 AMES 246-1-97 OTS POWER OFF
R30023	□	IA138 AMES 246-1-97 OTS POWER OFF
R30025	◇	IA138 AMES 246-1-97 OTS POWER OFF
R30050	△	IA138 AMES 246-1-97 OTS POWER ON
R30053	◁	IA138 AMES 246-1-97 OTS POWER ON
R30055	▷	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRRPR	SSMEPR
4.000	-2.000	2.500	.000	000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

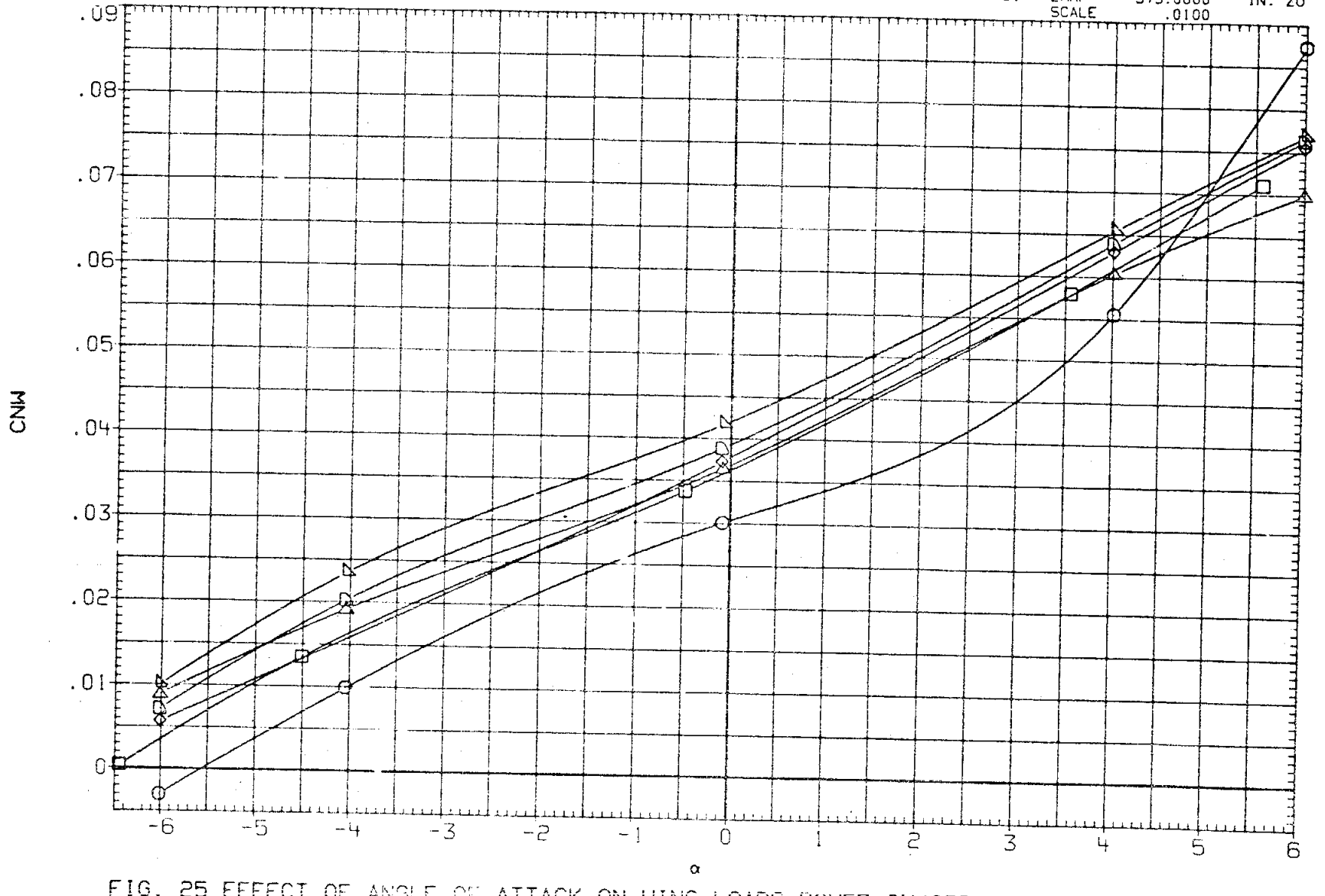

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(B) BETA = -.13

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D055	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.065
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

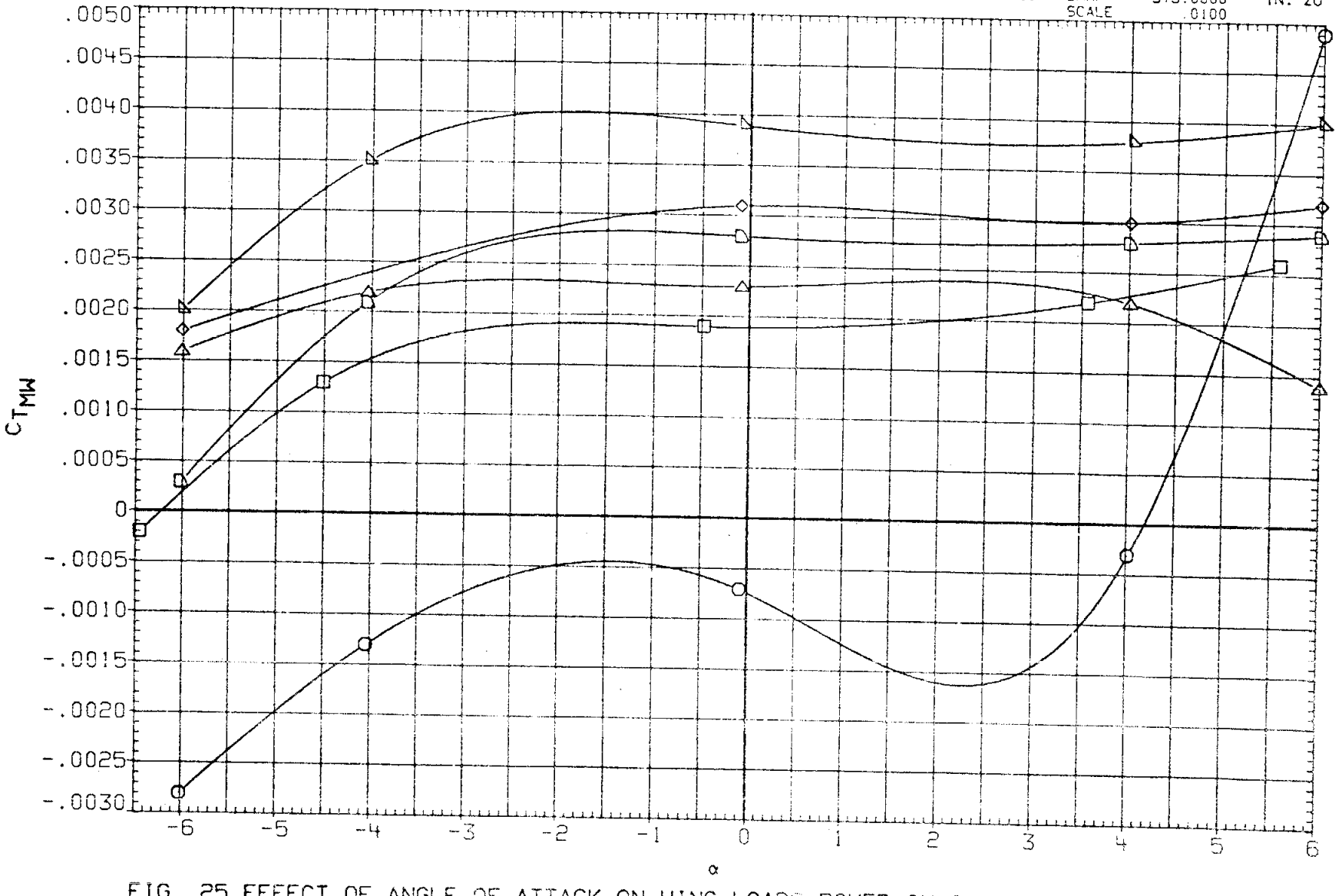

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(B)BETA = -.13

DATE 17 OCT 78

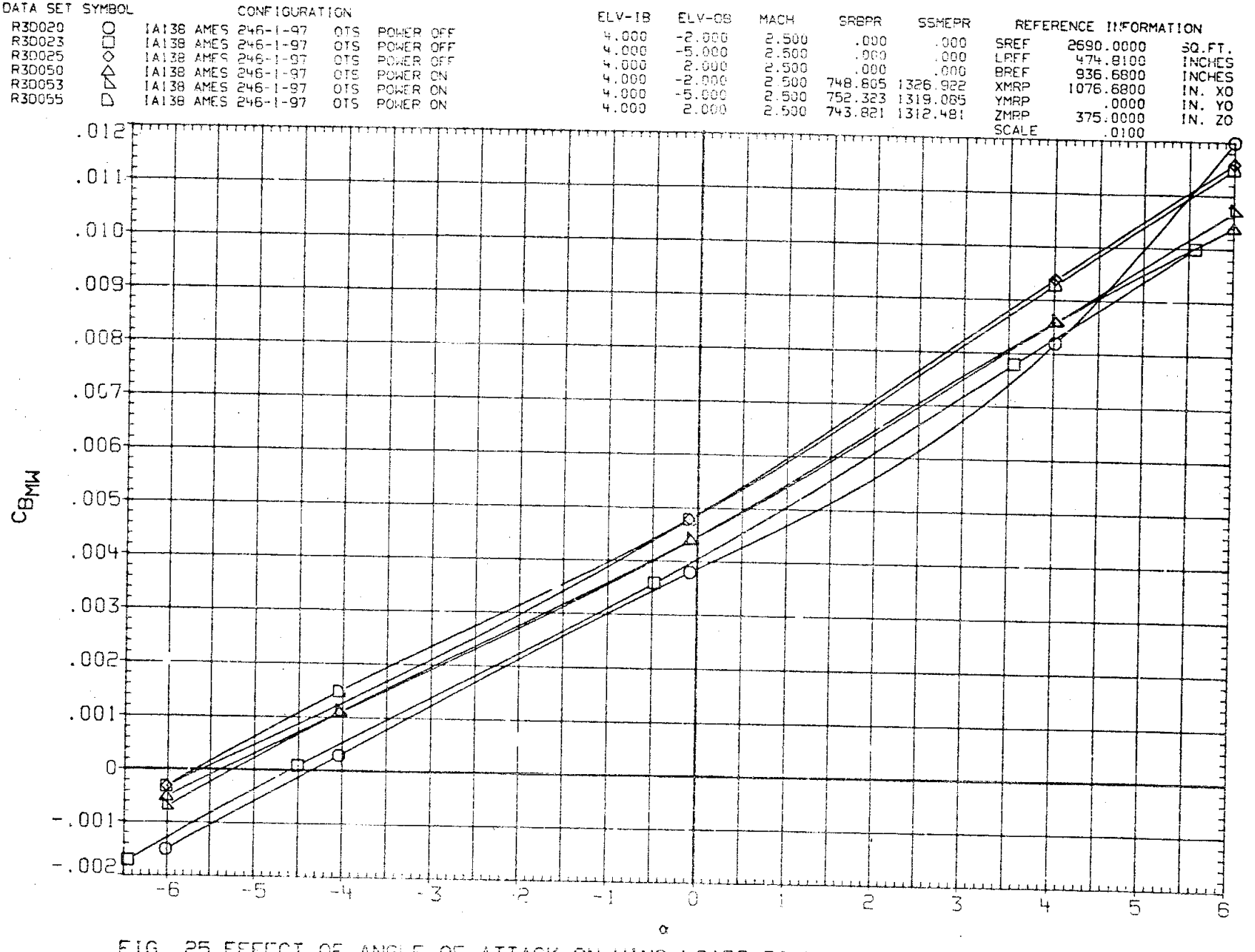

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(B)BETA = -.13

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D053	▷	IA138 AMES 246-1-97	OTS	POWER ON
R3D055	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

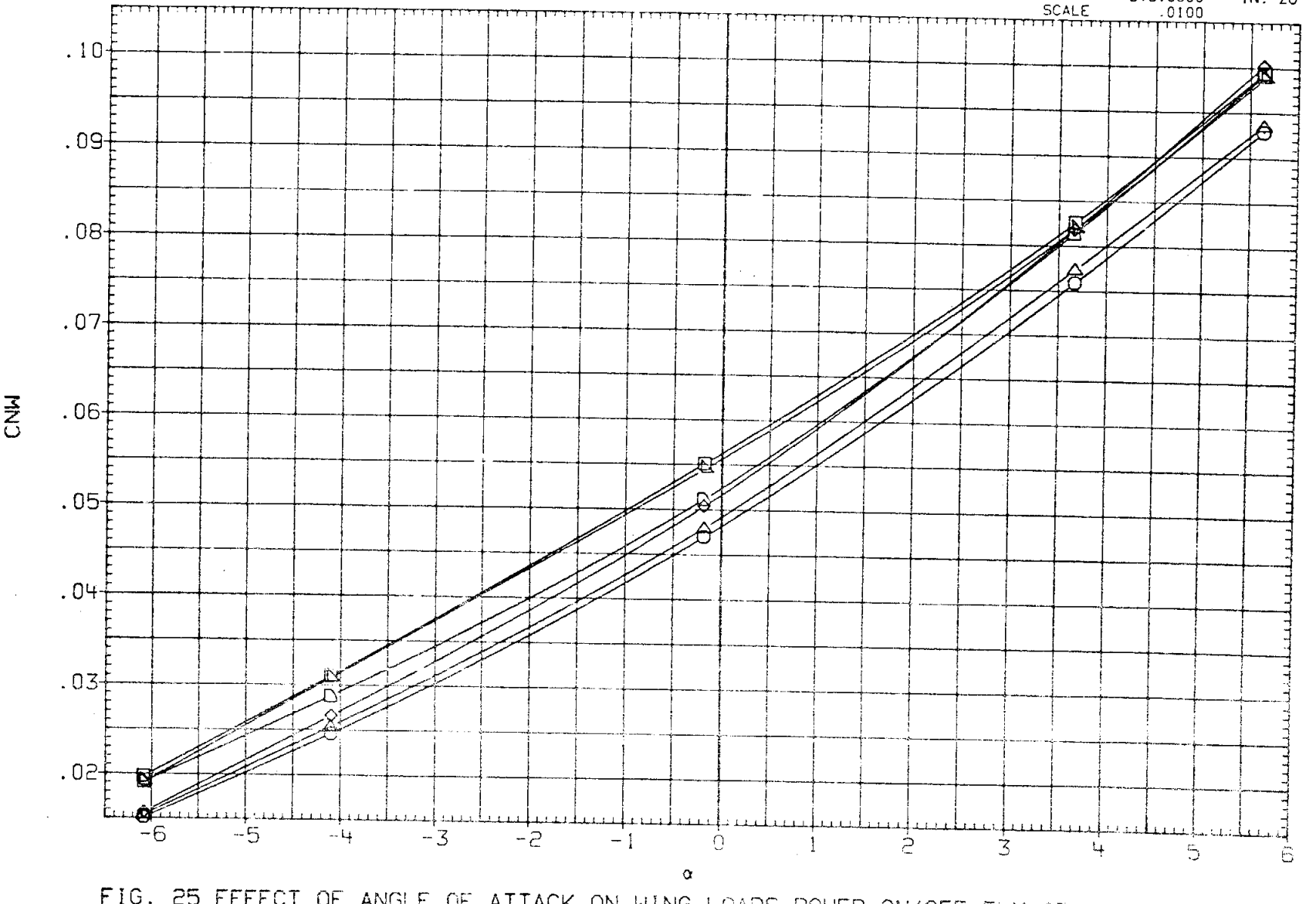

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(C) BETA = 3.74

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-2.000	2.500	.000	.000
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.500	.000	.000
R3D025	◇	IA139 AMES 246-1-97	OTS	POWER OFF	4.000	2.000	2.500	.000	.000
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.500	748.805	1326.922
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.500	752.323	1319.085
R3D055	▷	IA138 AMES 246-1-97	OTS	POWER ON	4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

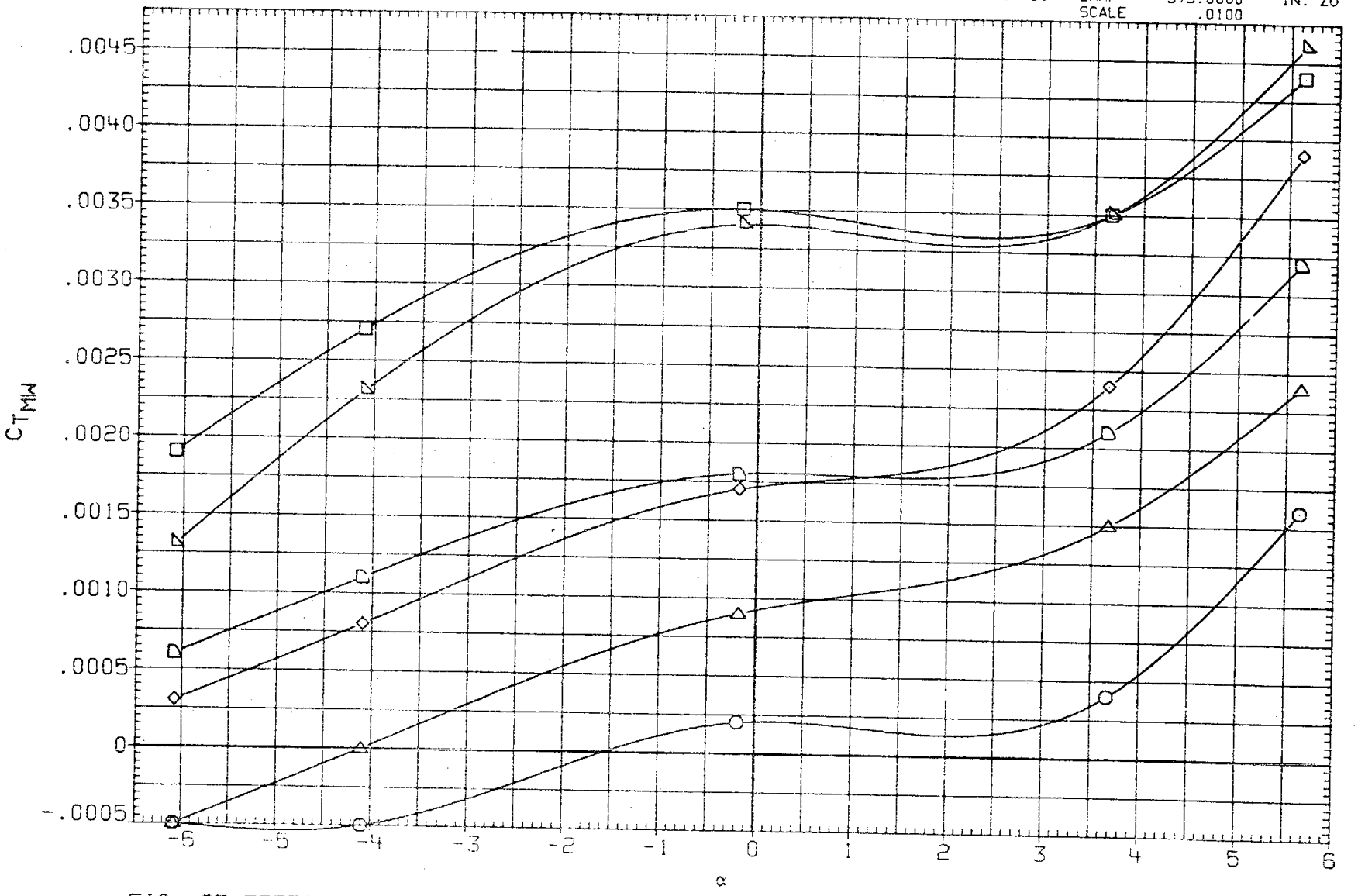

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(C)BETA = 3.74

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D053	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D055	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

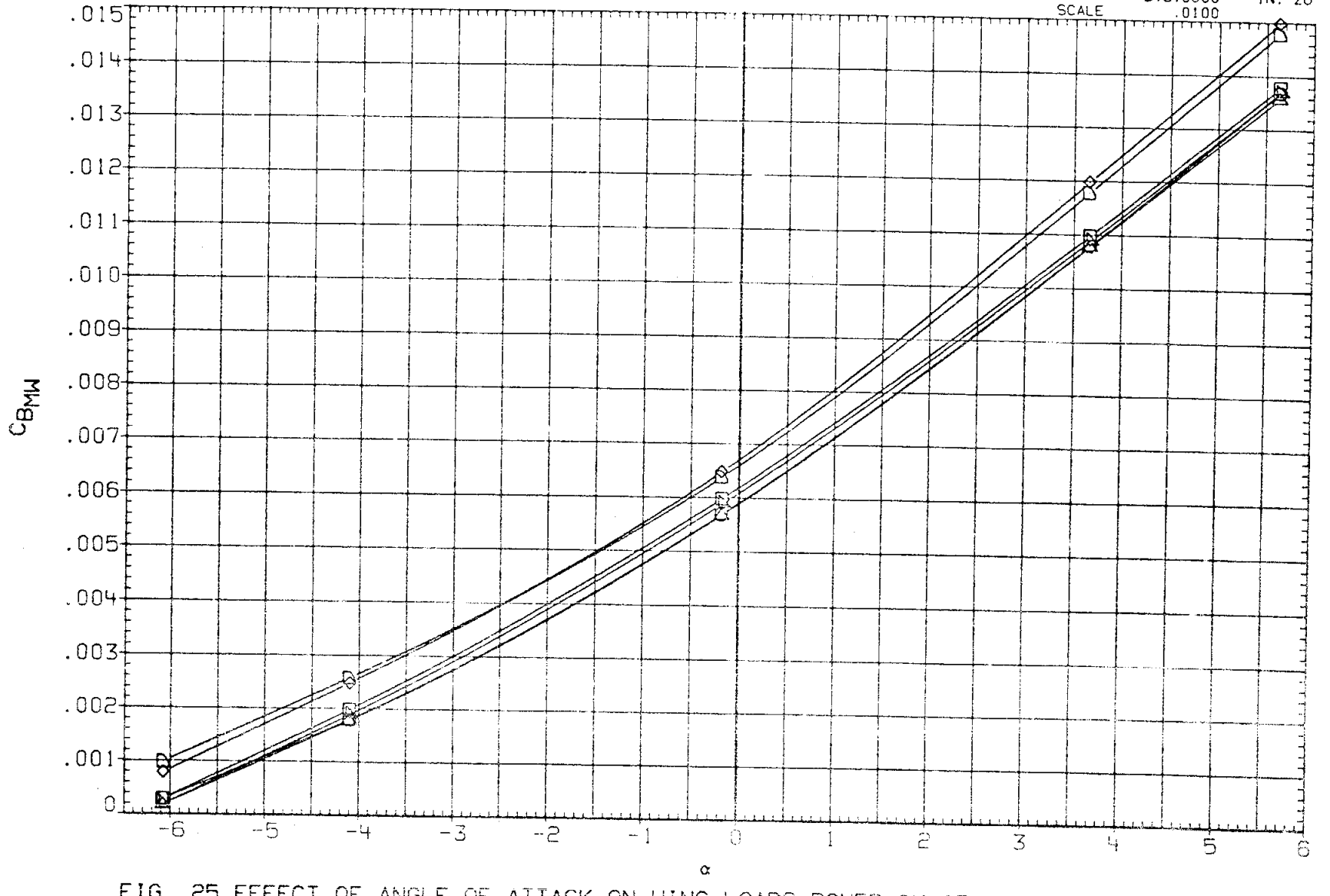

FIG. 25 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(C)BETA = 3.74

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

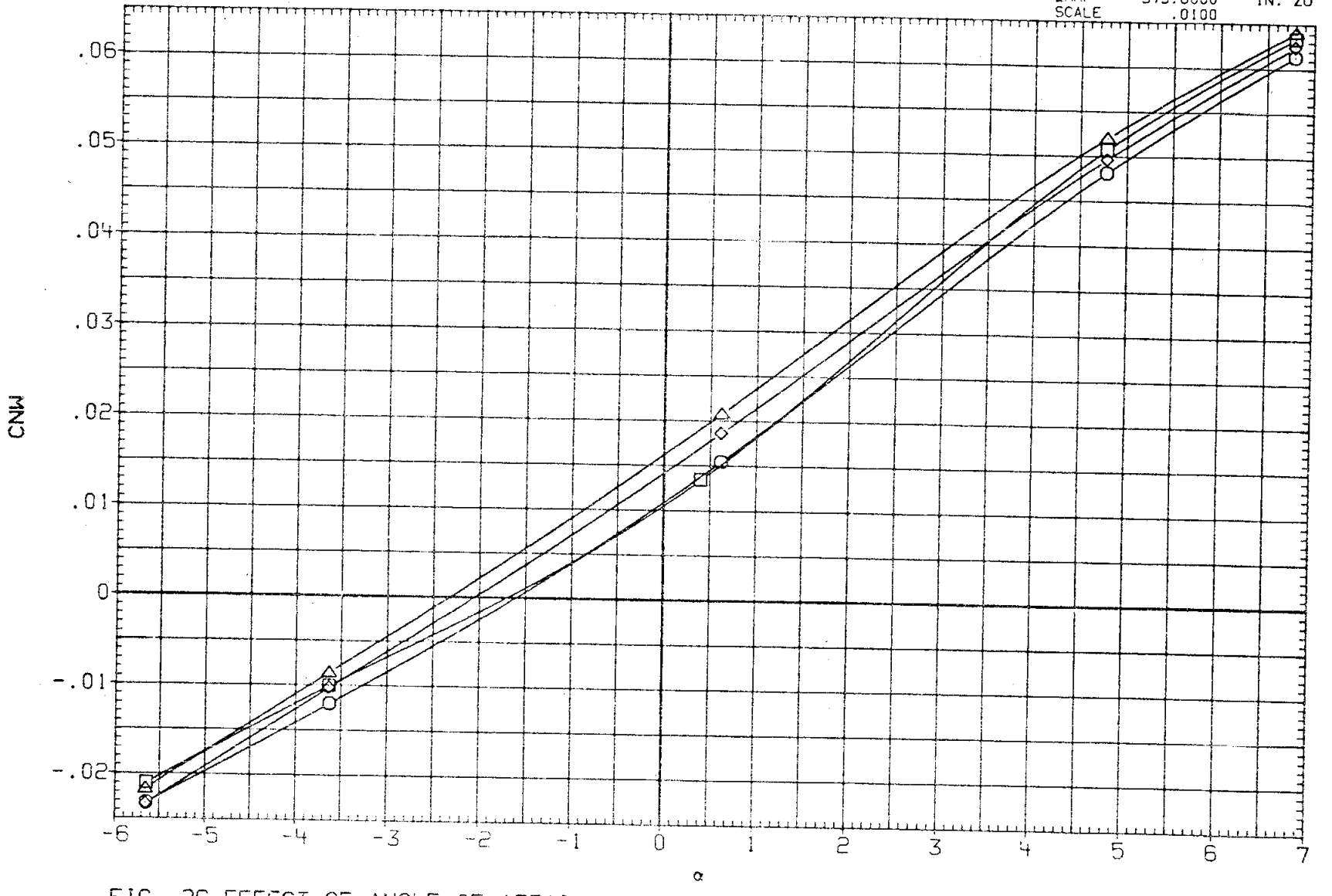

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(A)BETA = -4.35

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.569

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

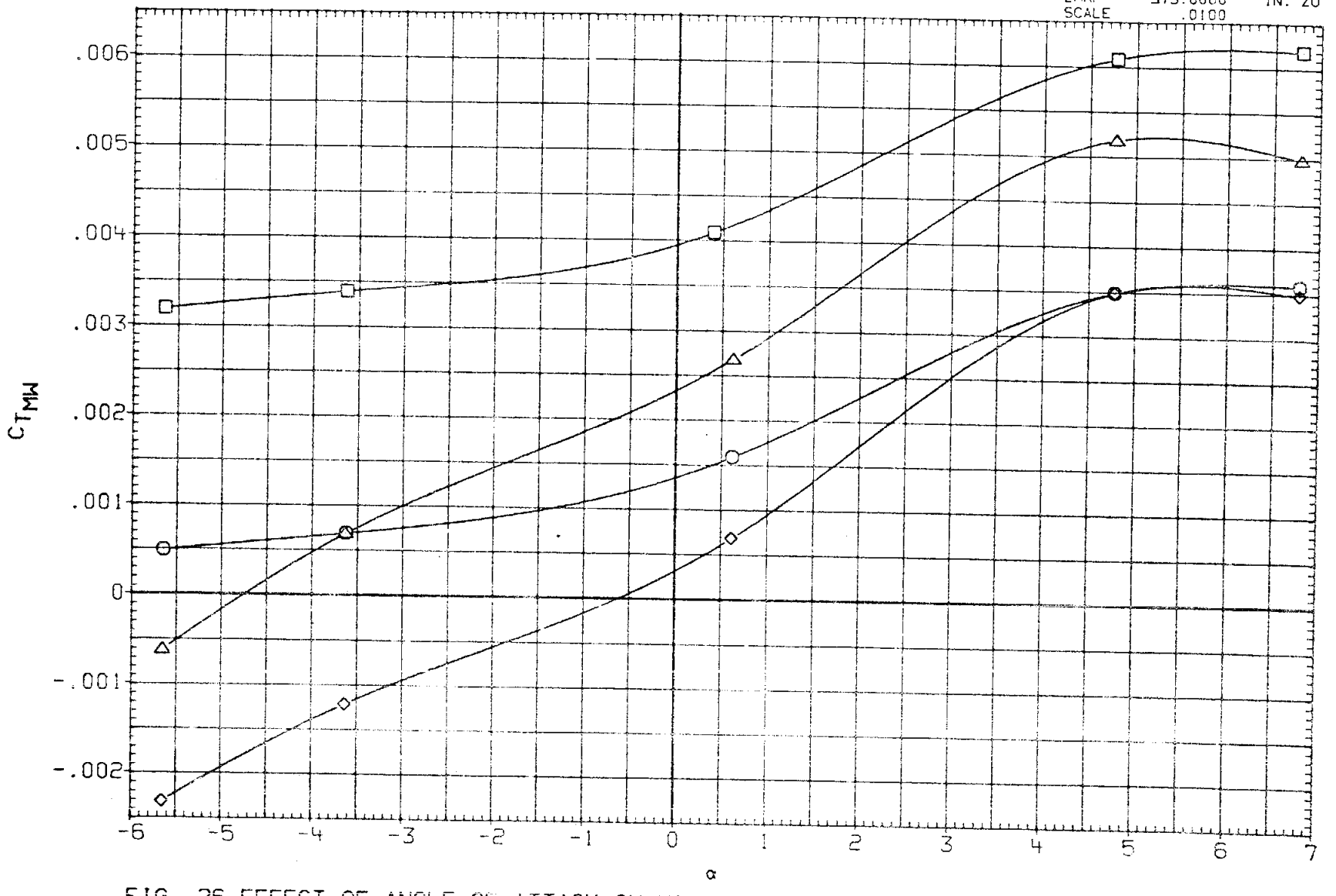

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(A) BETA = -4.35

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

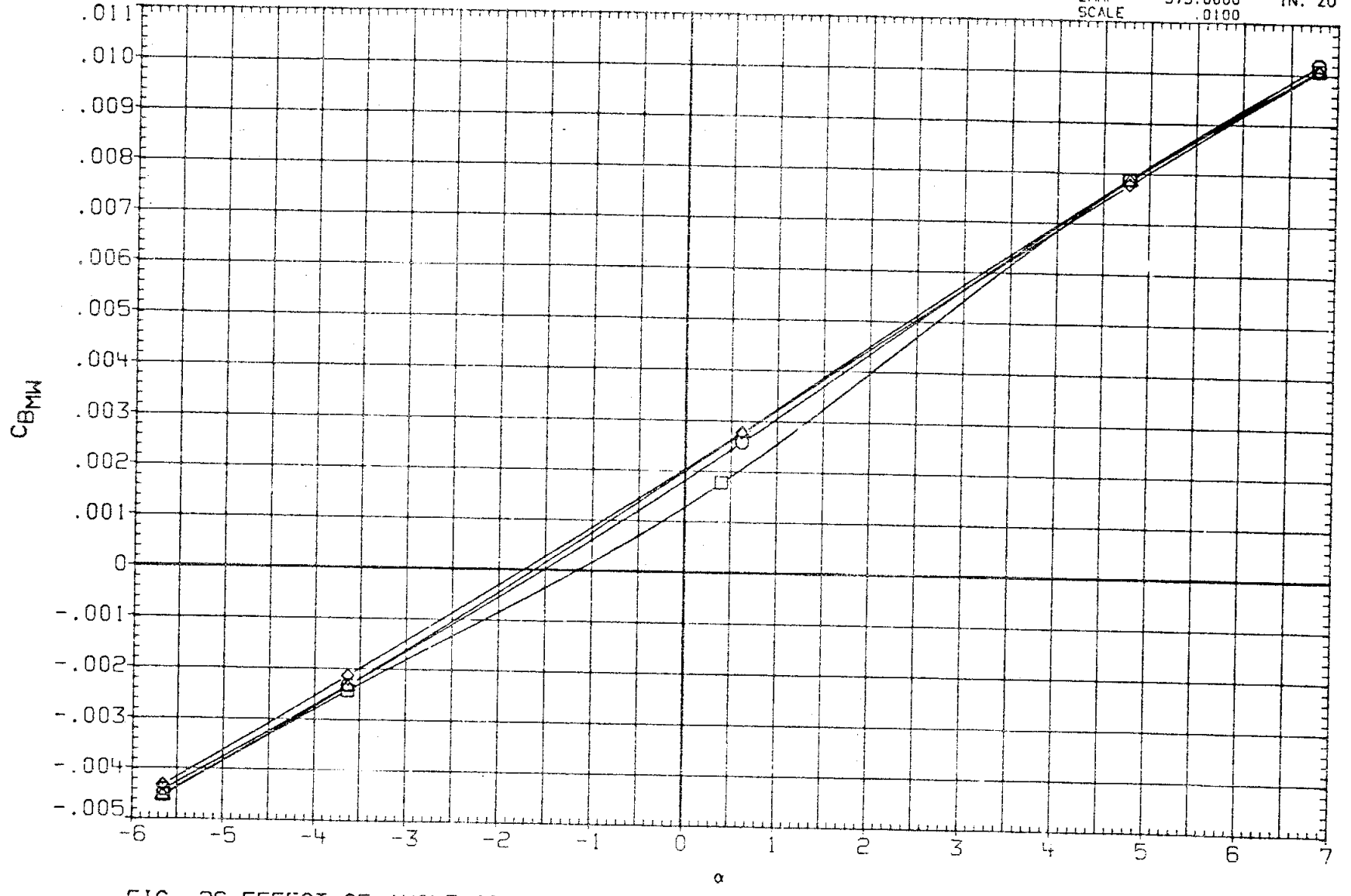

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(A)BETA = -4.35

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R3D026	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D028	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D056	◇	IA138 AMES 246-1-97 OTS POWER ON
R3D058	△	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.569

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

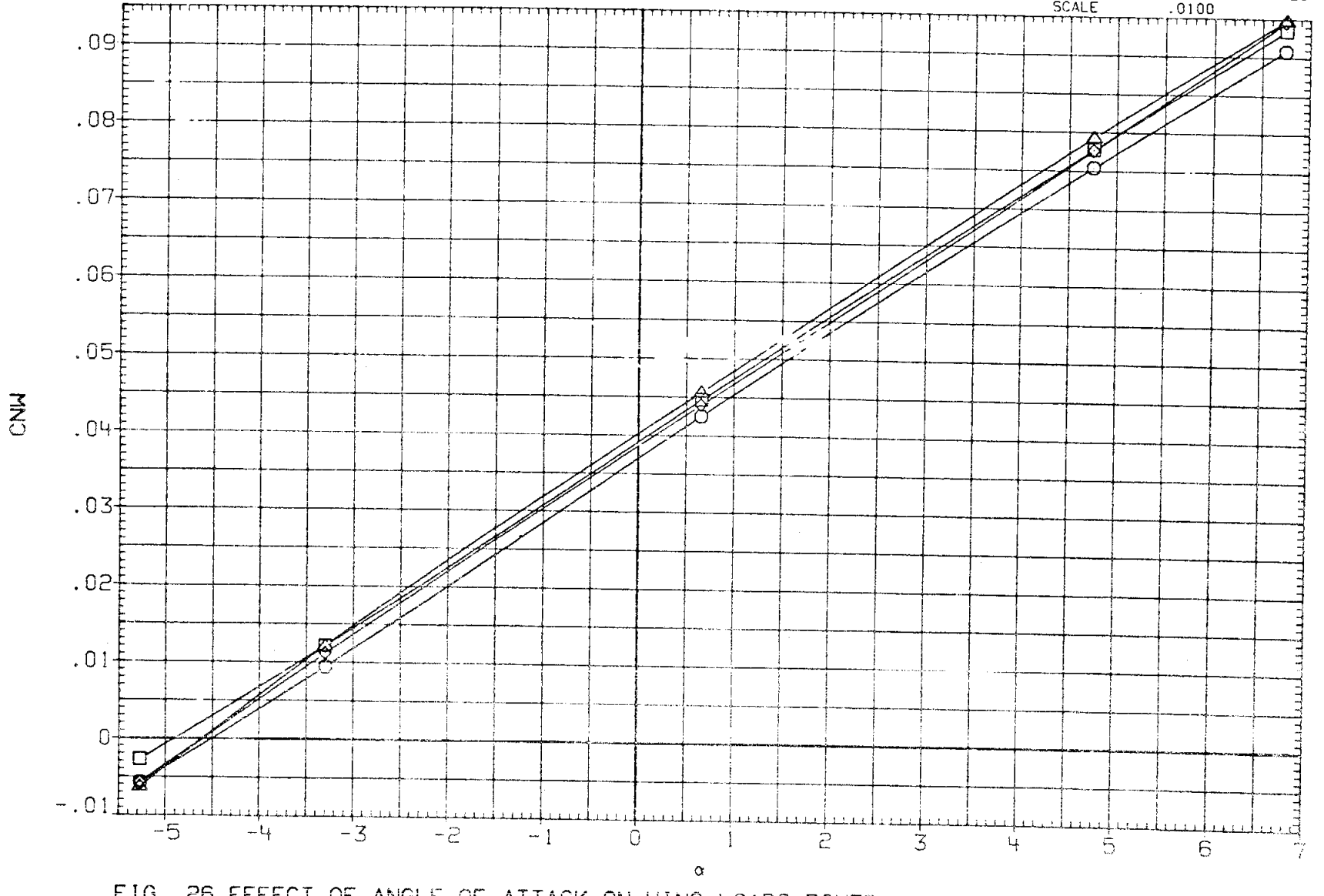

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

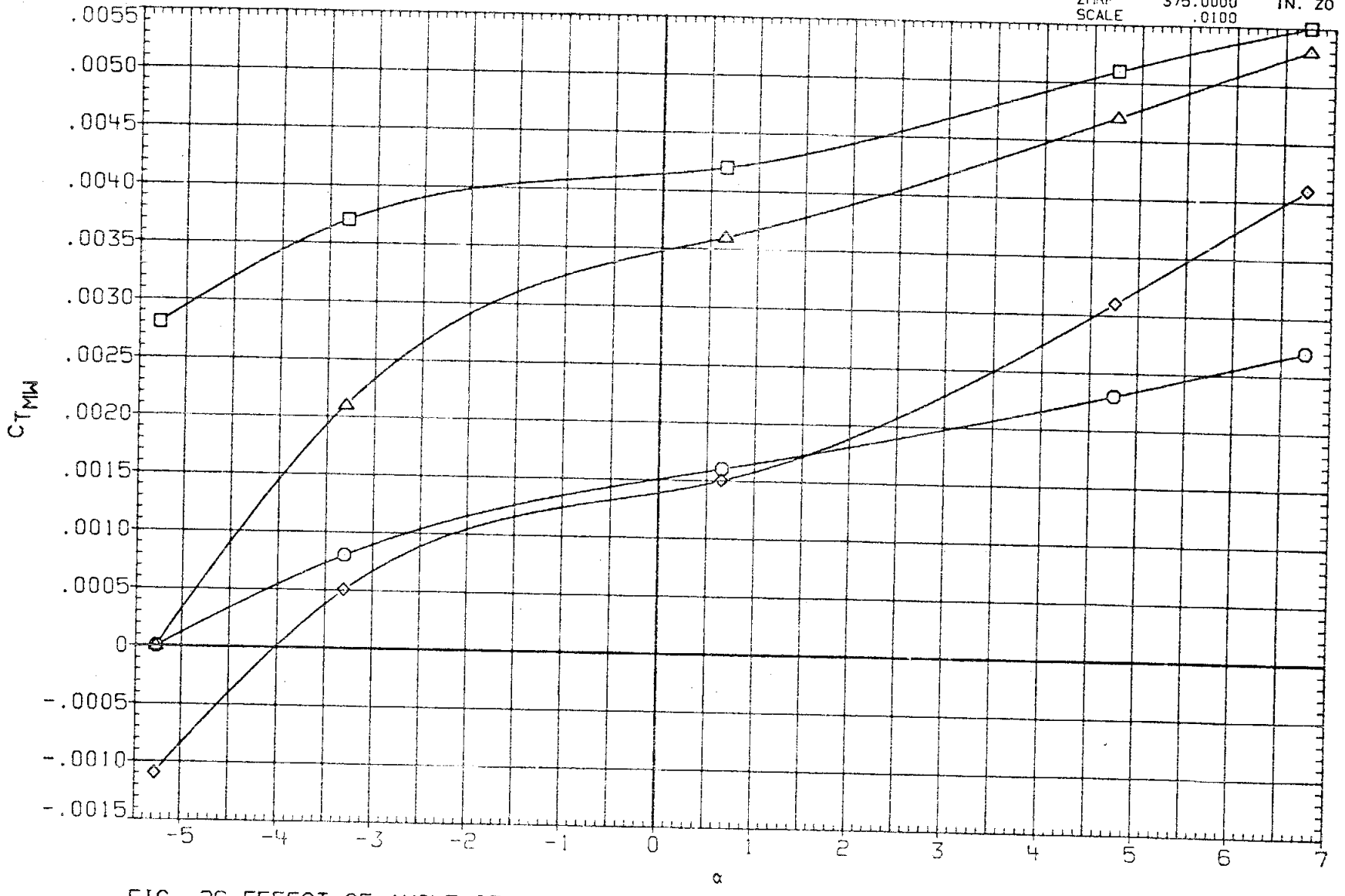

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

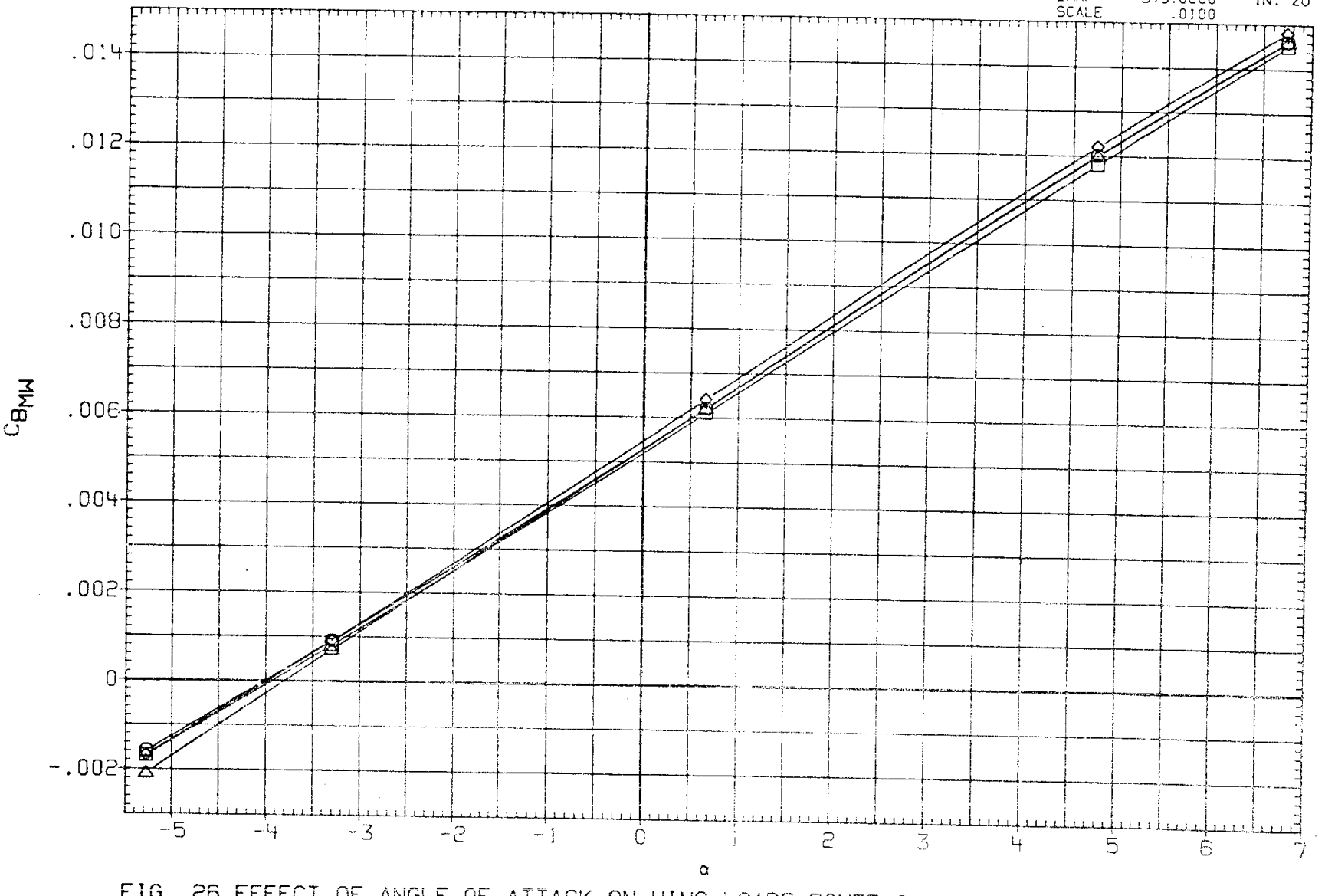

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON	
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SREPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

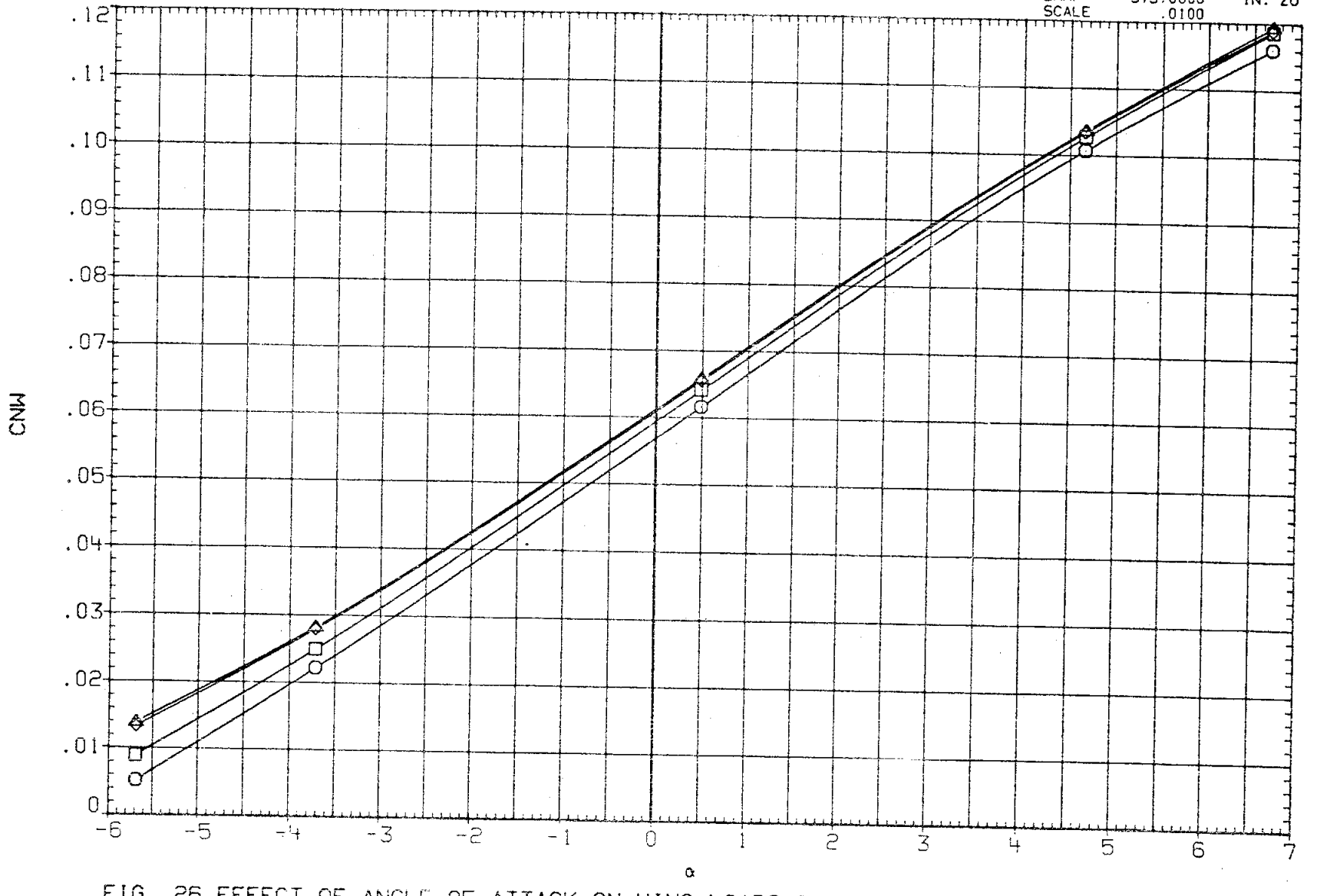

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(C)BETA = 3.84

DATE 17 OCT 73

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.662	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6900	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

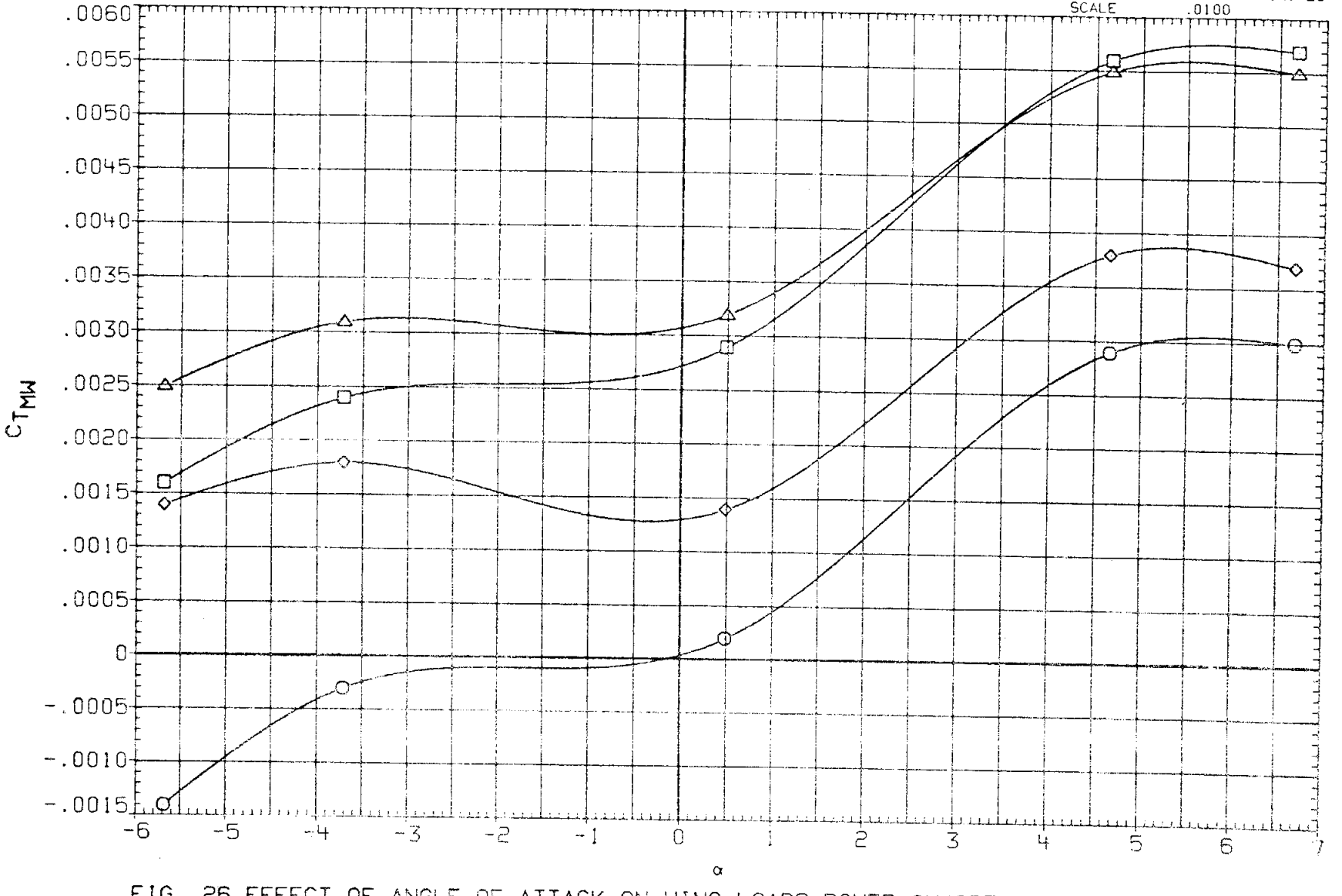

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(C)BETA = 3.84

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

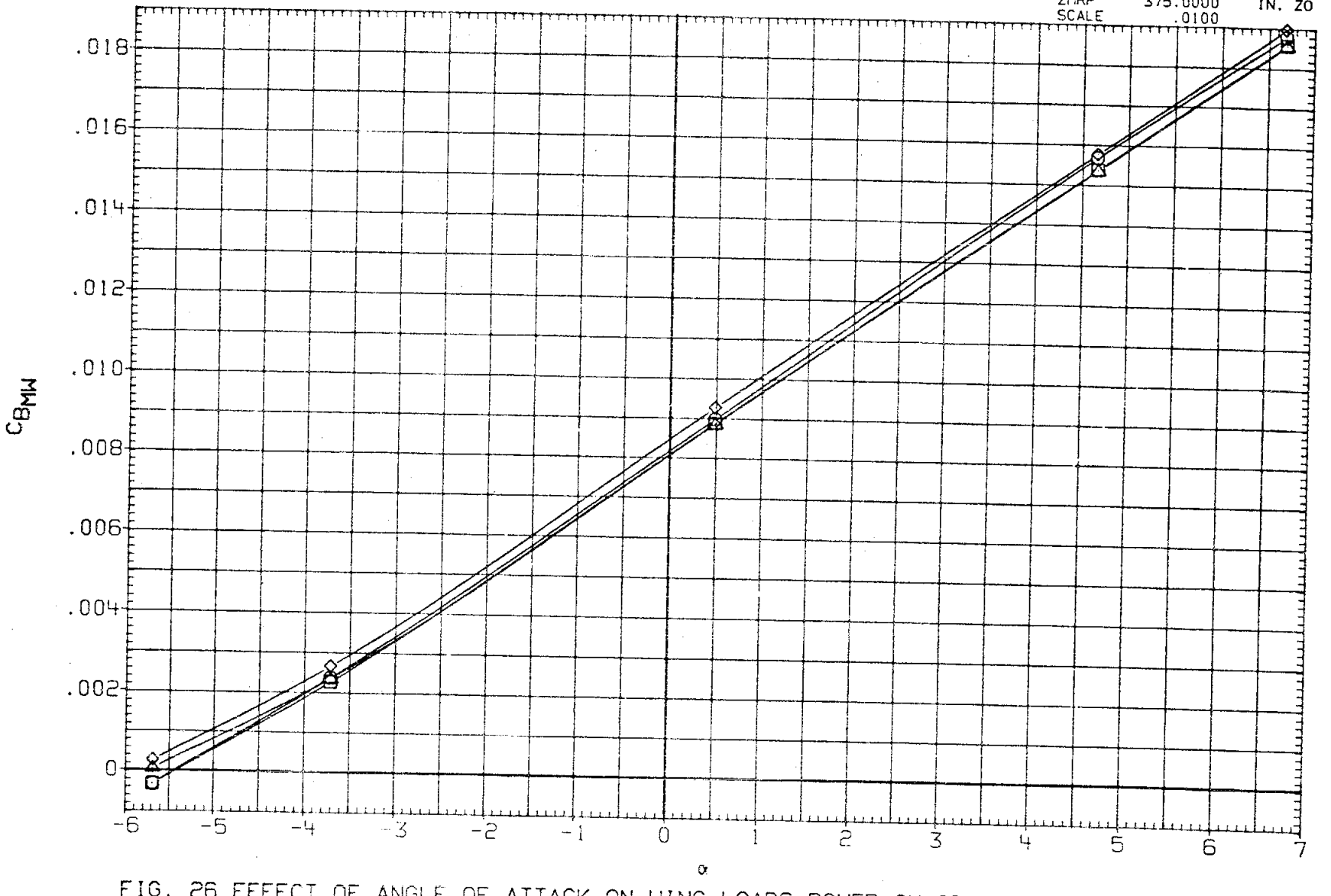

FIG. 26 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(C)BETA = 3.84

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	◺	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	◺	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

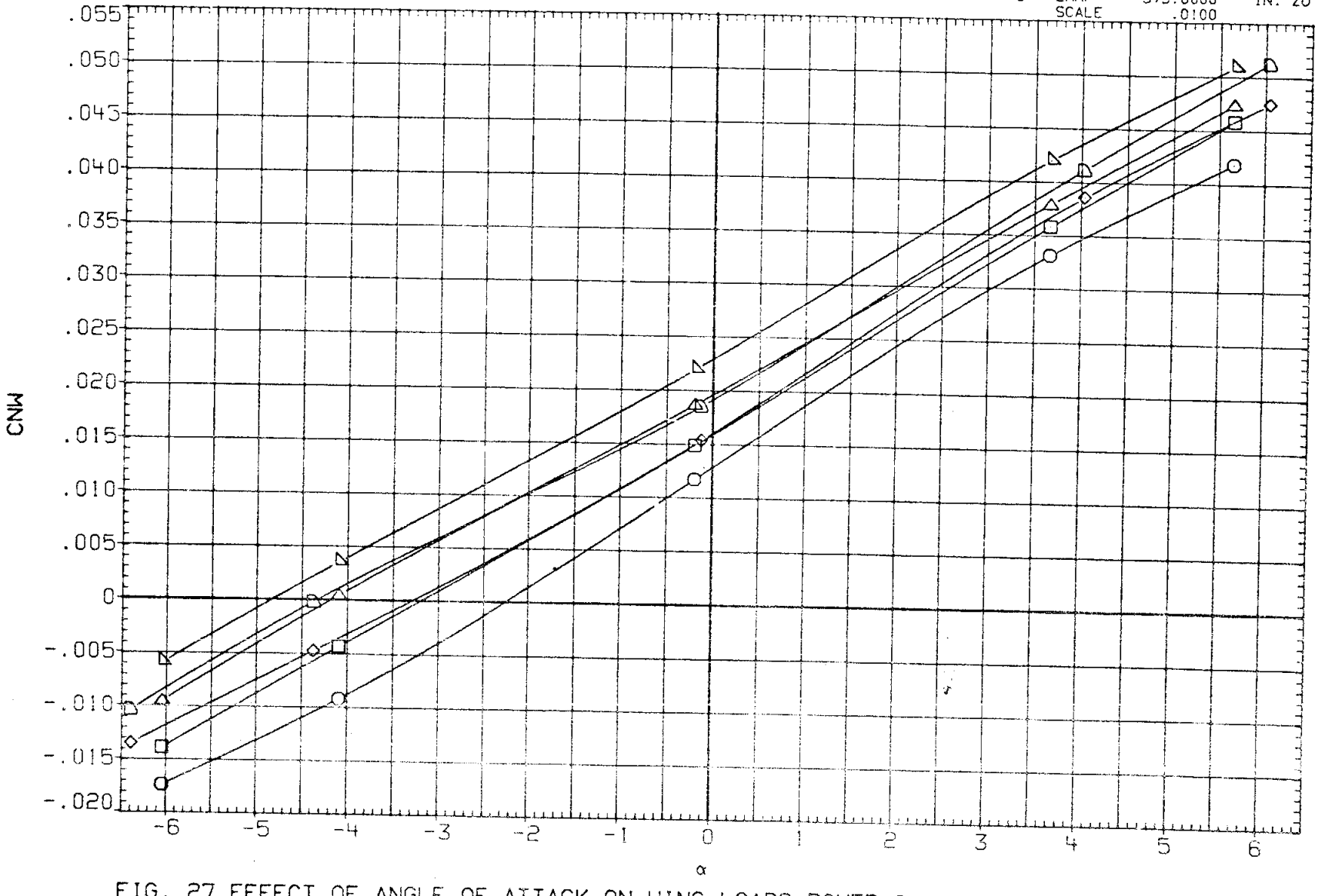

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	◁	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

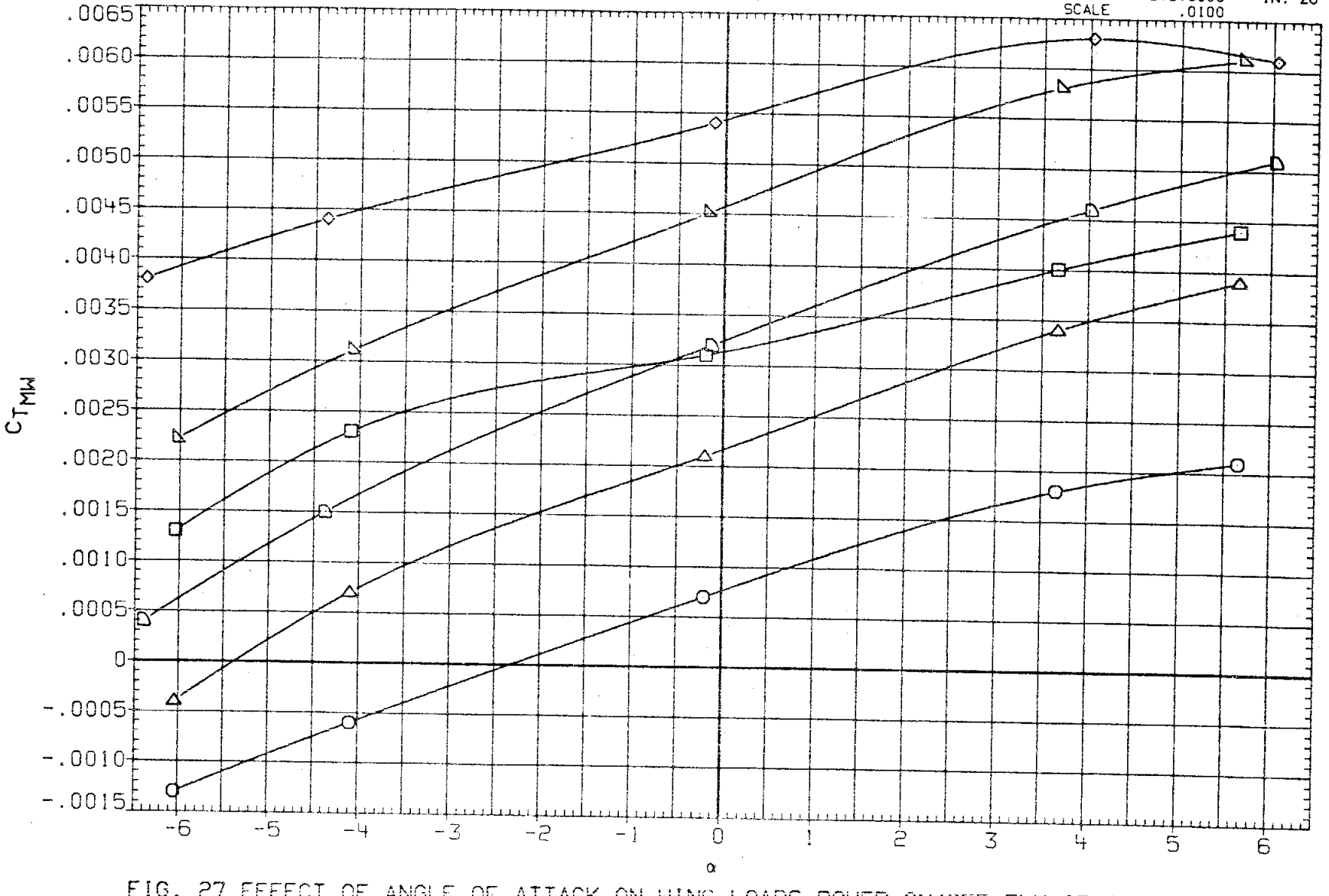

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D059	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D060	D	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

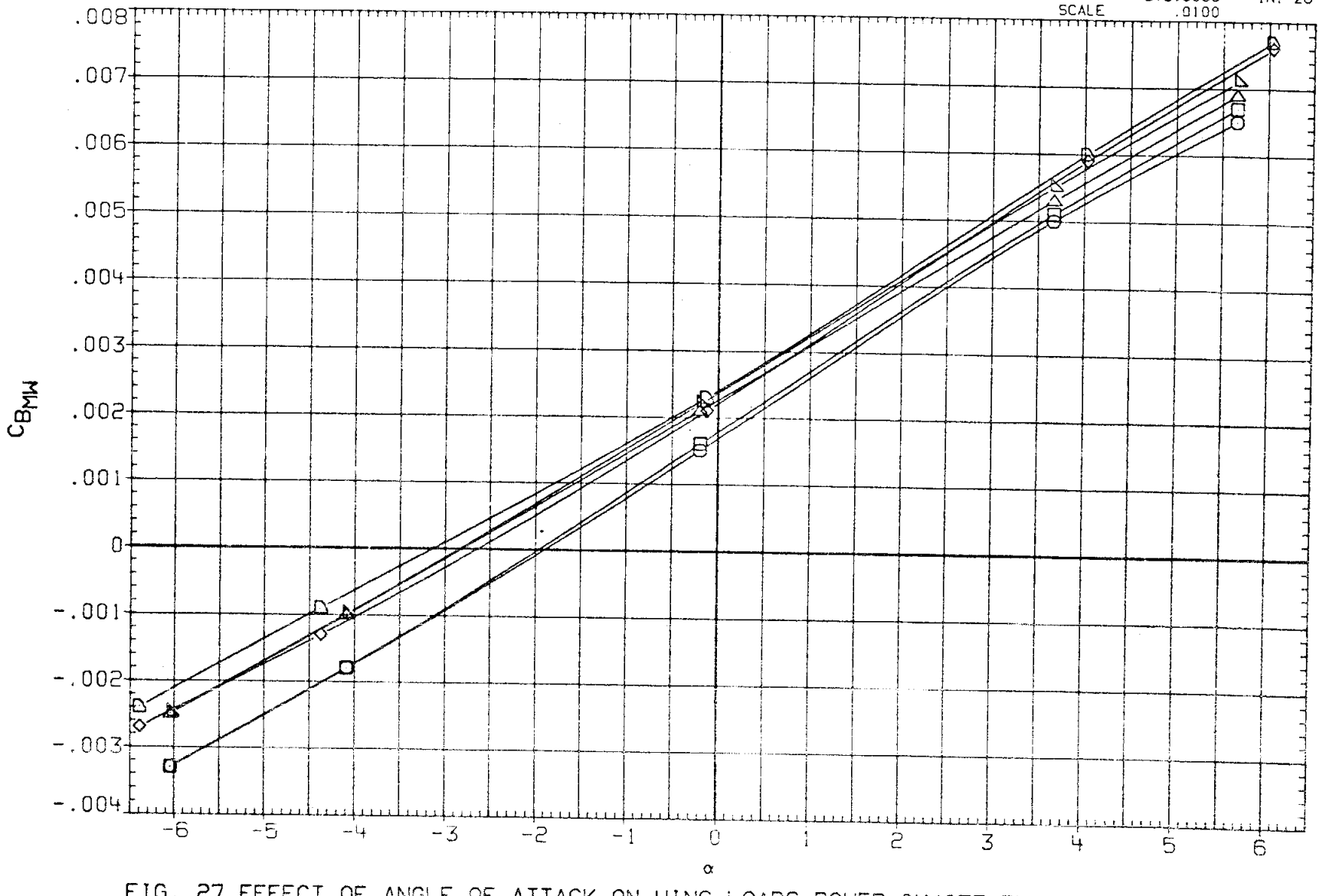

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	▱	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

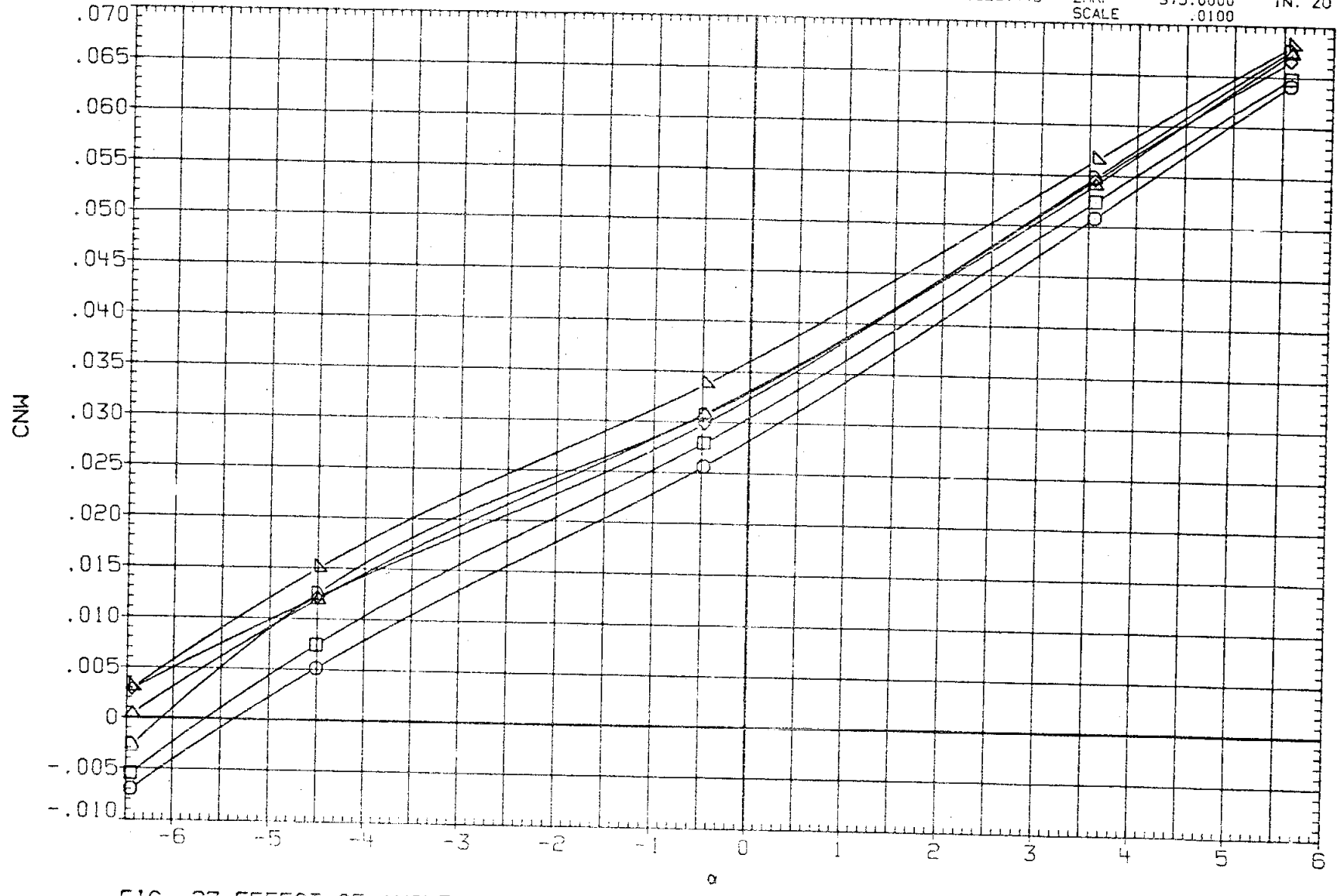

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB-0, MACH=2.5

(B)BETA = -.15

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

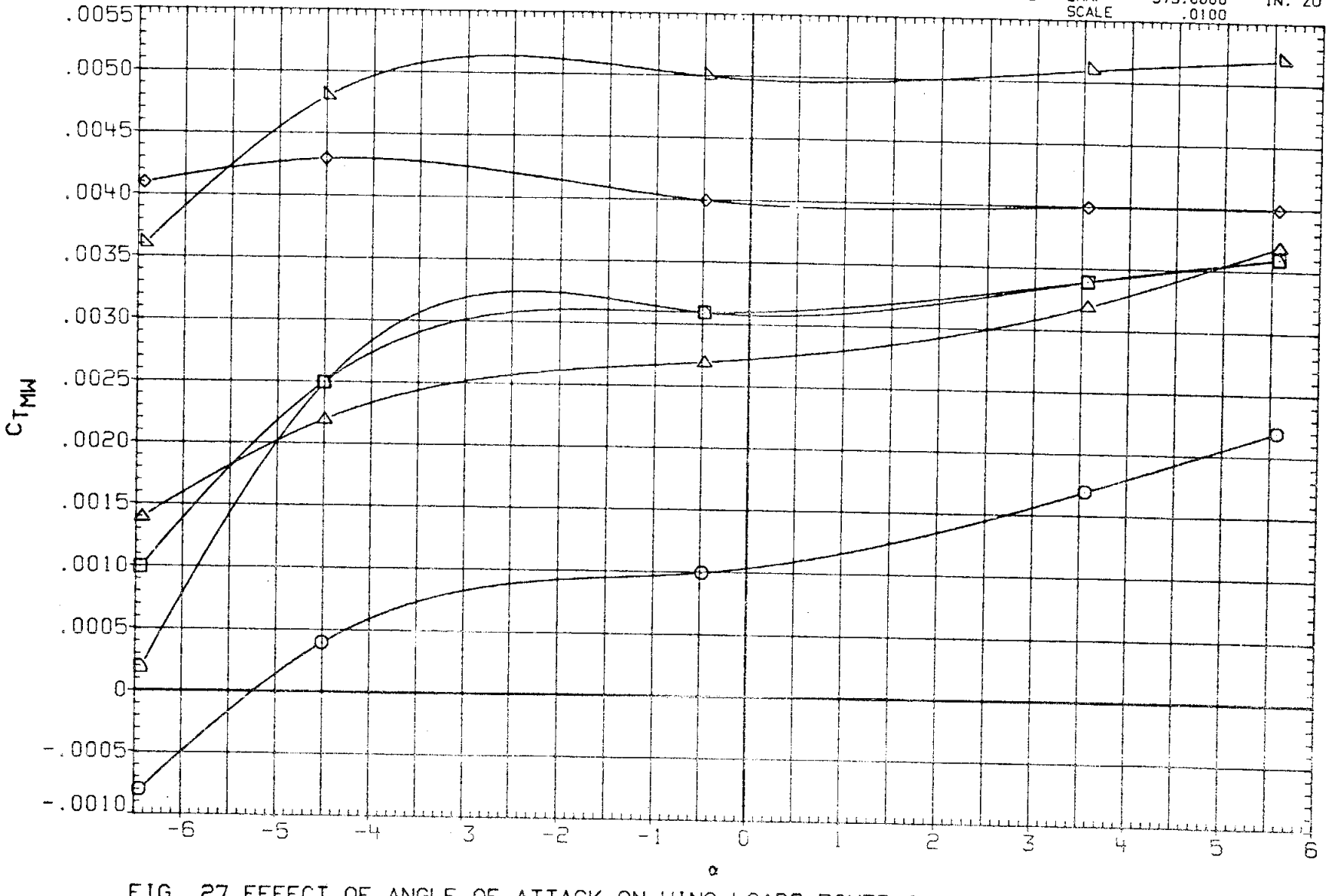

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(B) BETA = -.15

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

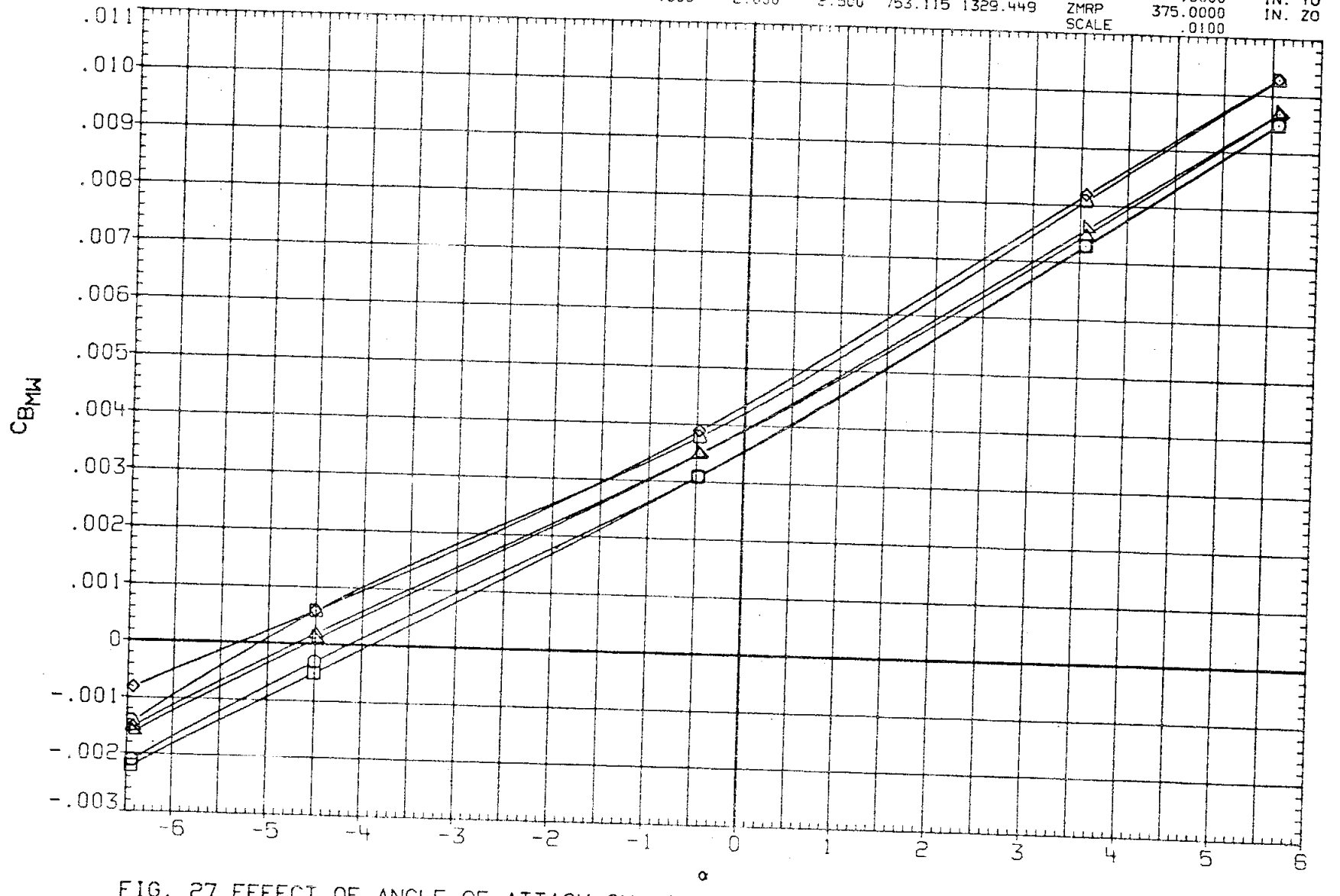

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(B) BETA = -.15

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF		.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF		.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF		.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON		.000	-2.000	2.500	751.892	1322.416
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON		.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON		.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

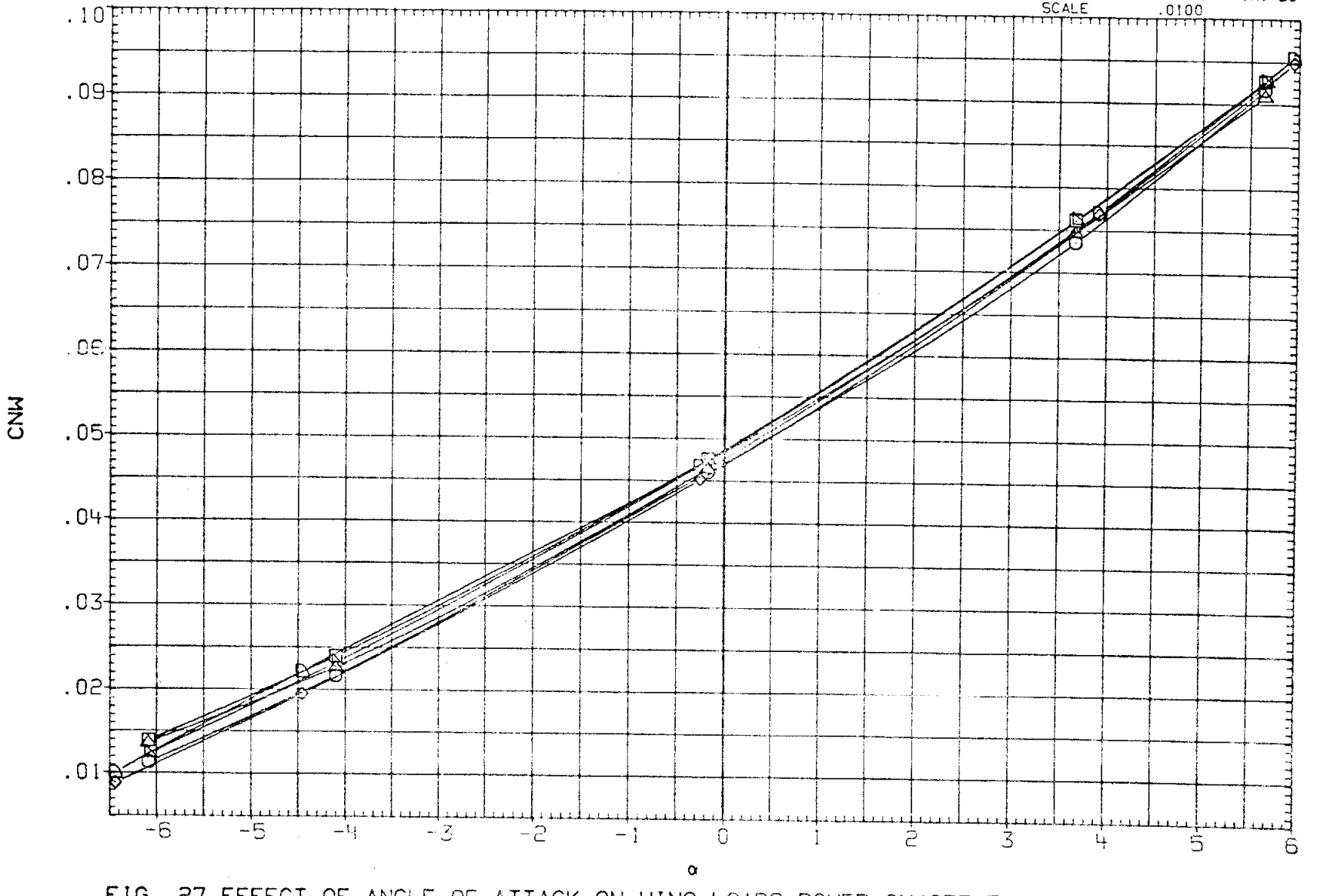

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-1B=0, MACH=2.5

(C)BETA = 3.69

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	D	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

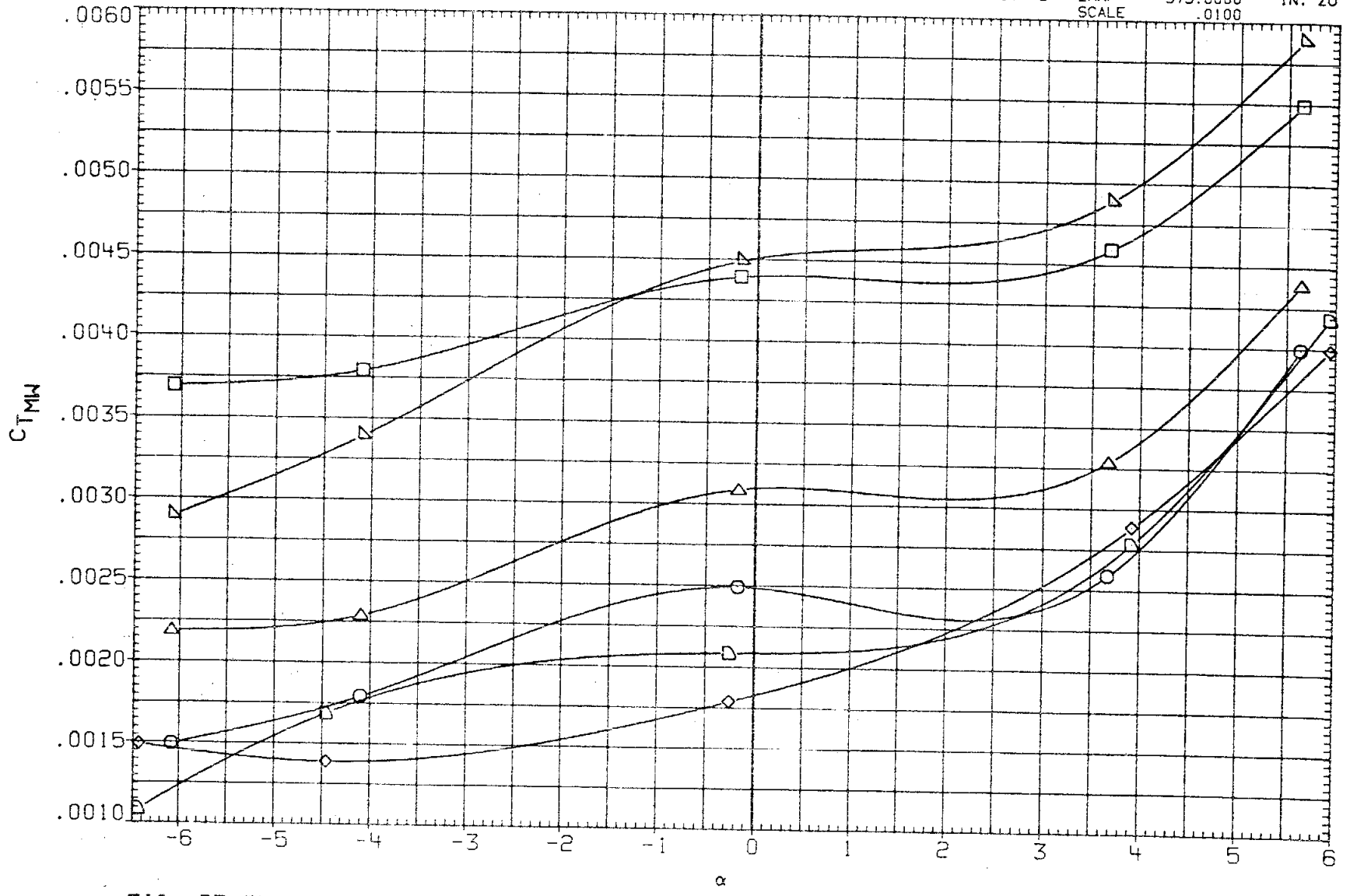

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV IB=0, MACH=2.5

(C)BETA = 3.69

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

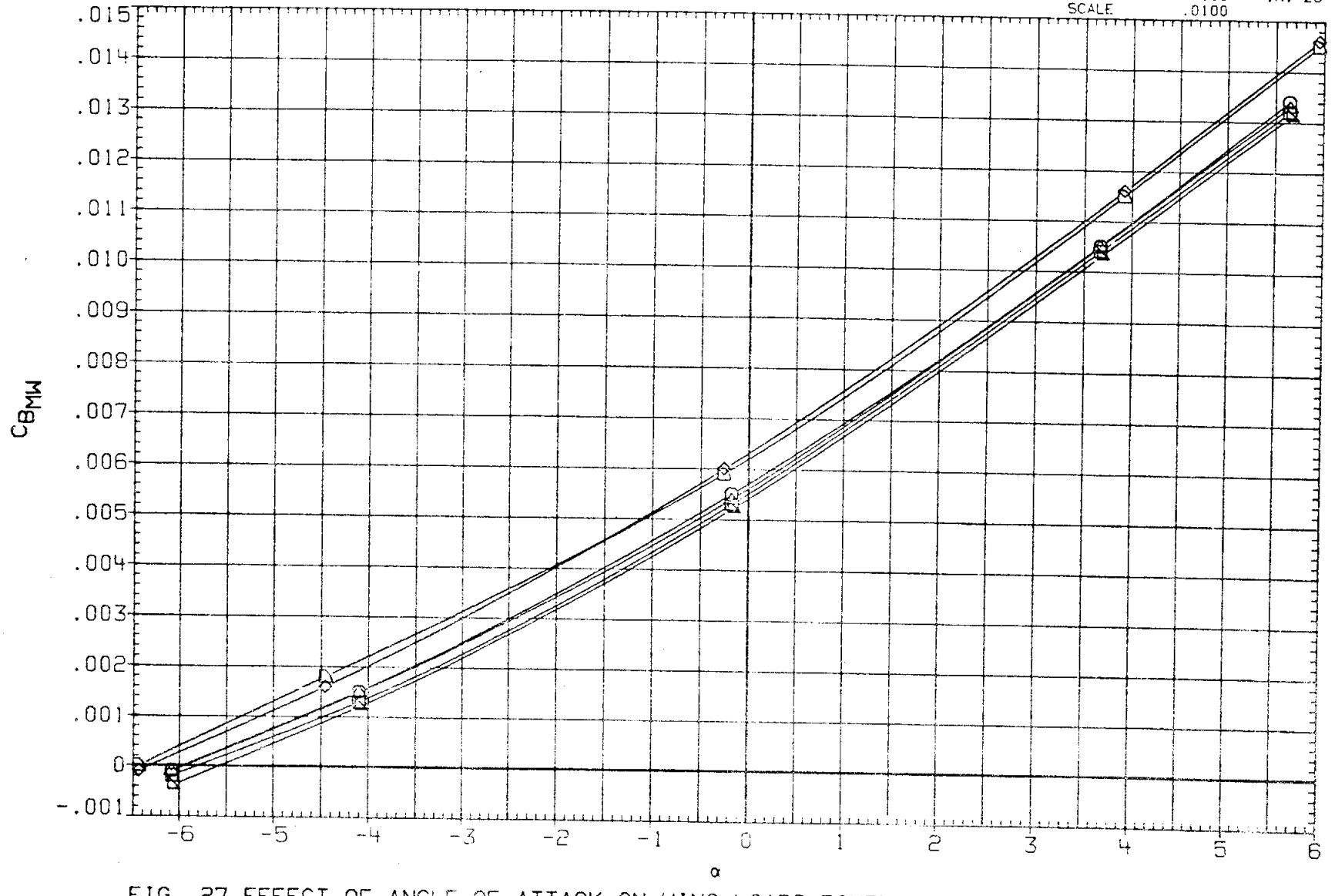

FIG. 27 EFFECT OF ANGLE OF ATTACK ON WING LOADS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(C)BETA = 3.69

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMFPR
10.000	-2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

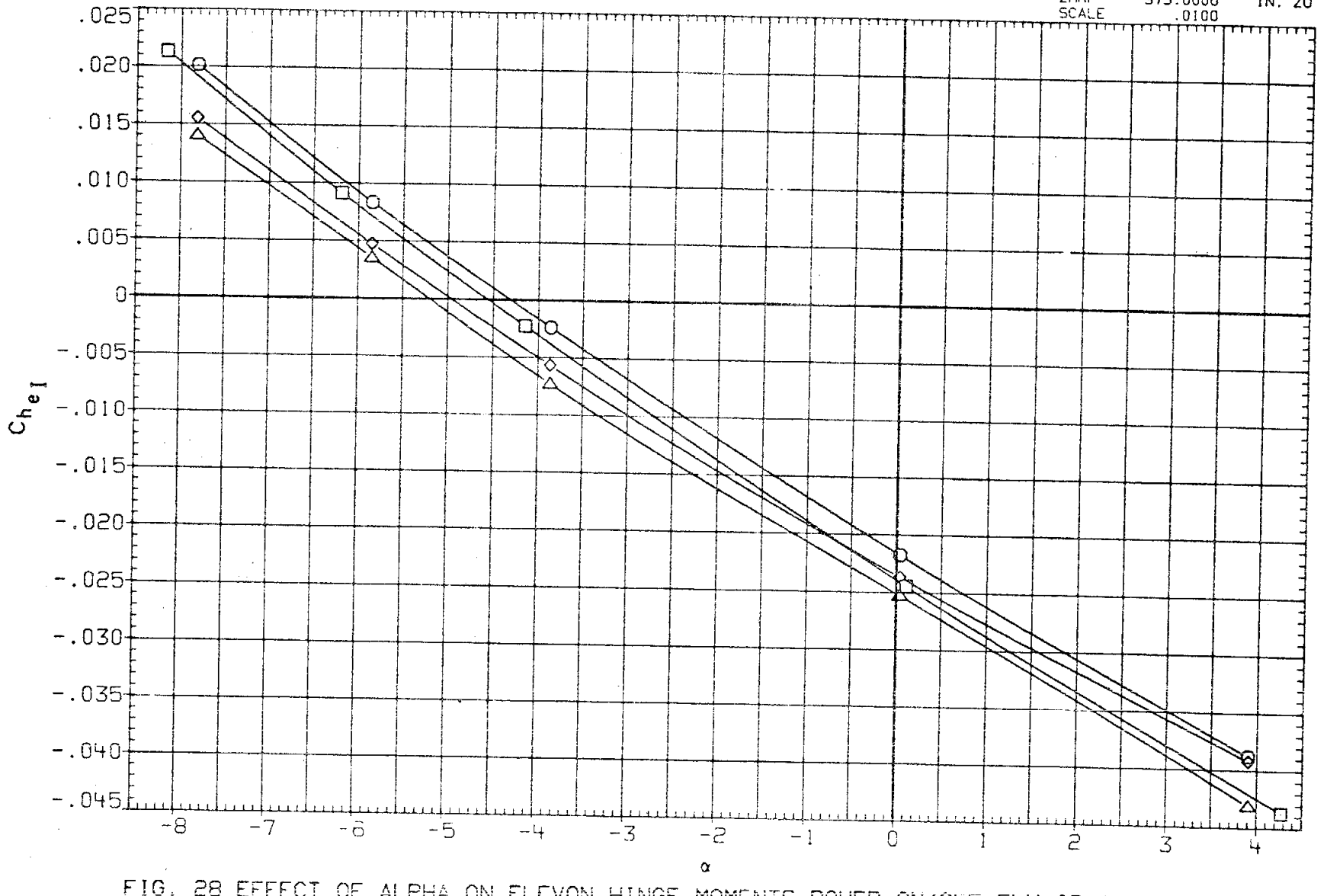

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(A)BETA = -4.10

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

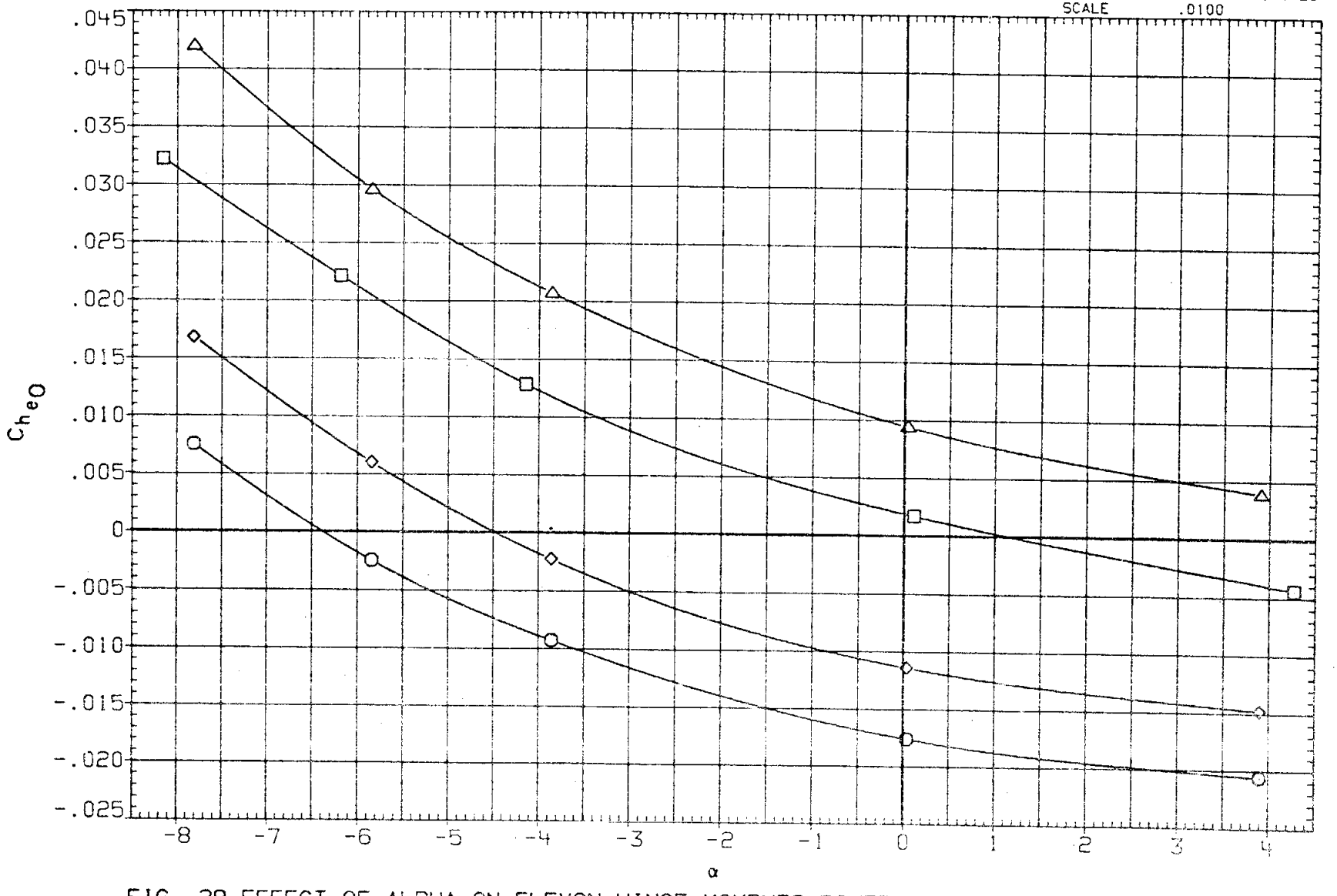

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(A) BETA = -4.10

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

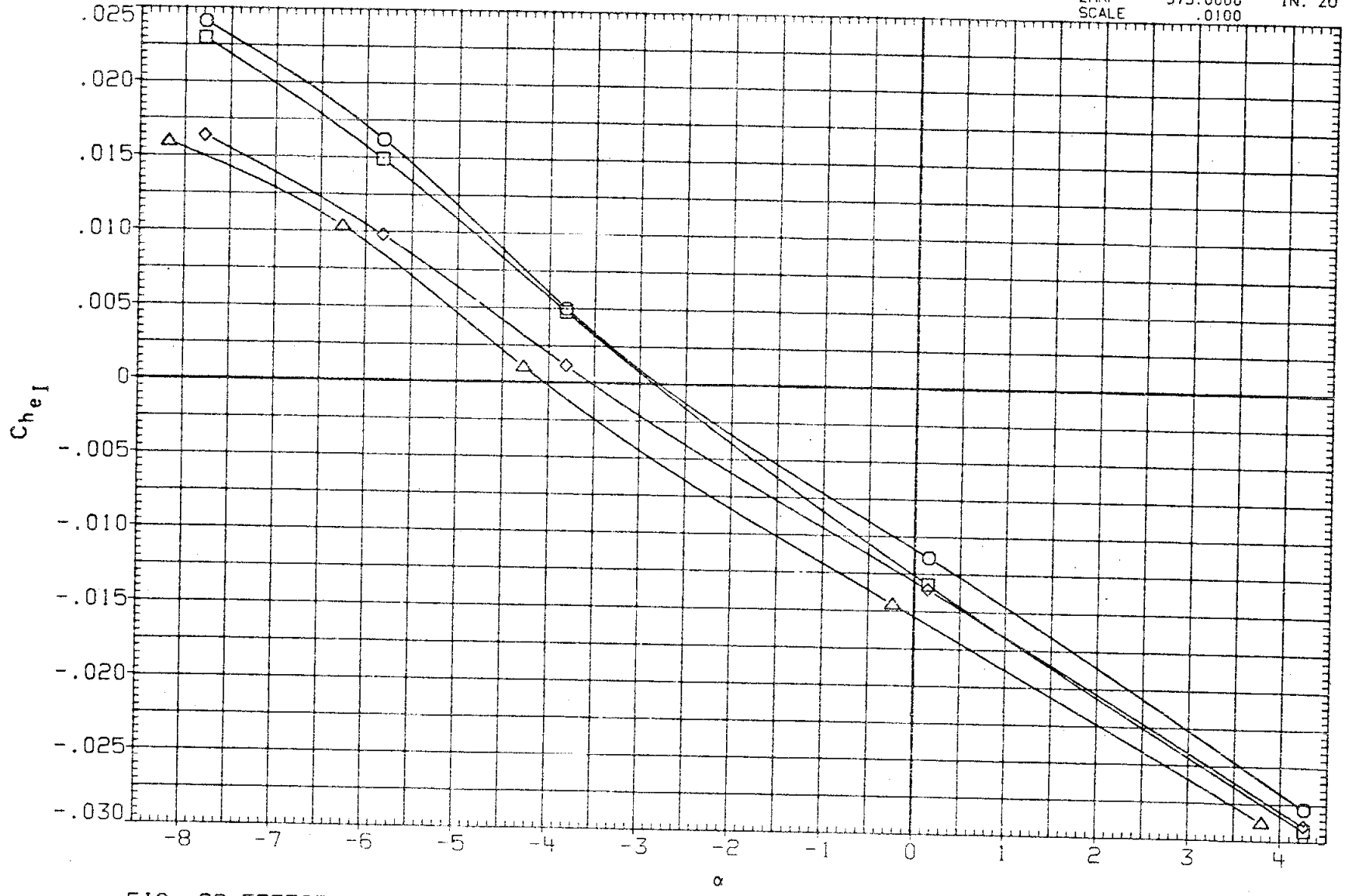

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(B) BETA = -.22

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

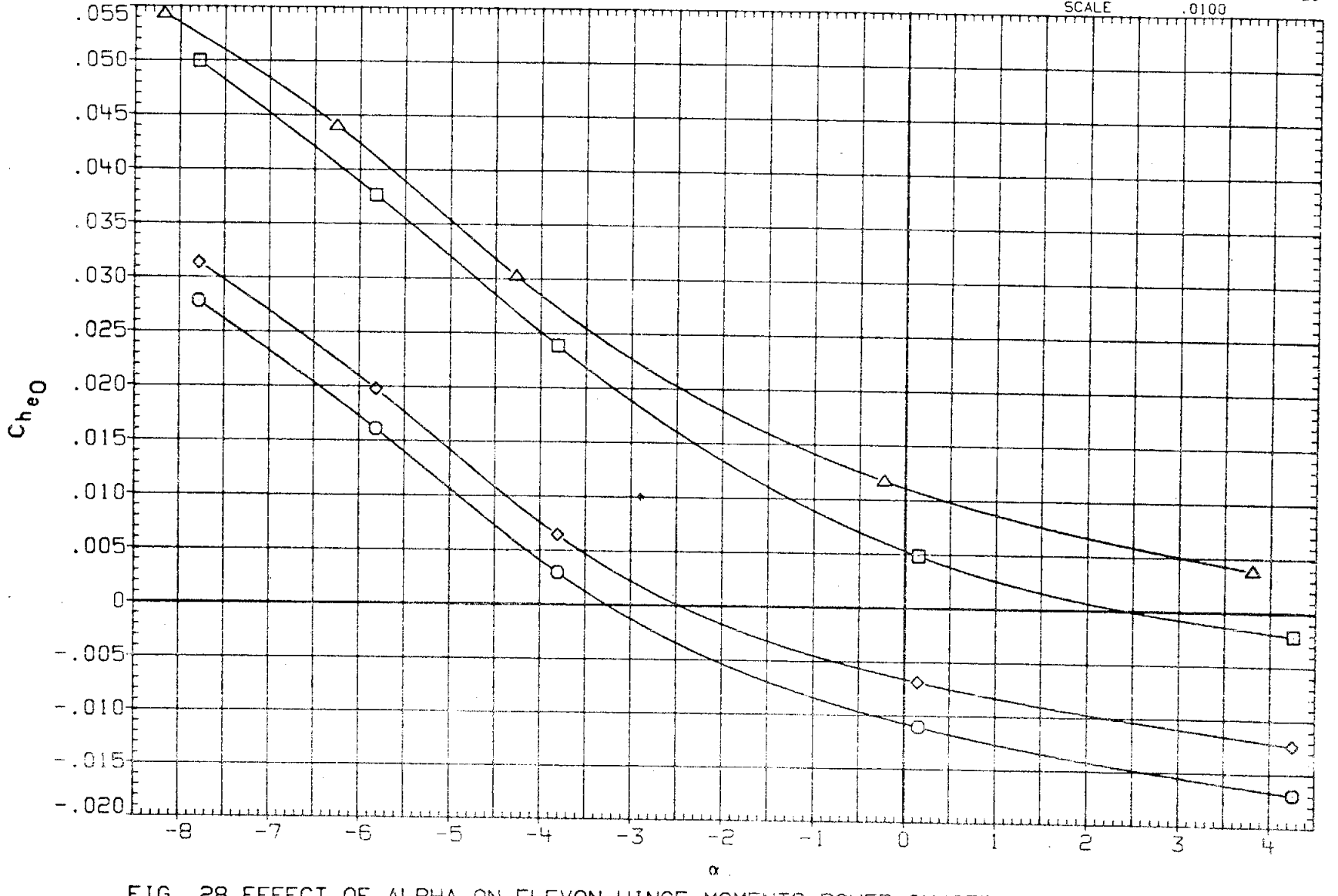

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(B) BETA = -.22

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

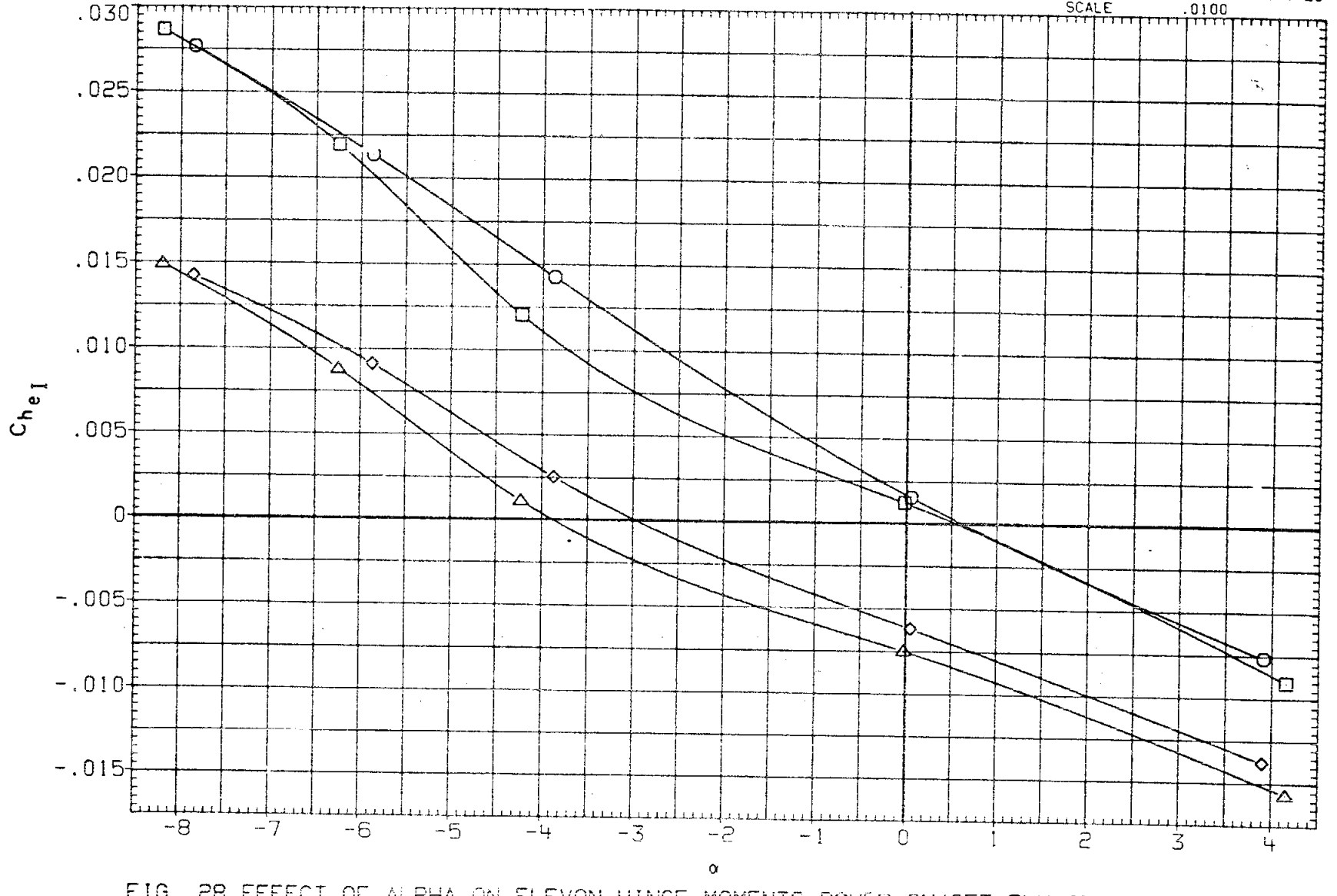

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(C) BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D001	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D008	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D031	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D038	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.550	.000	.000
10.000	-7.000	1.550	.000	.000
10.000	-2.000	1.550	197.262	372.504
10.000	-7.000	1.550	195.714	372.069

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

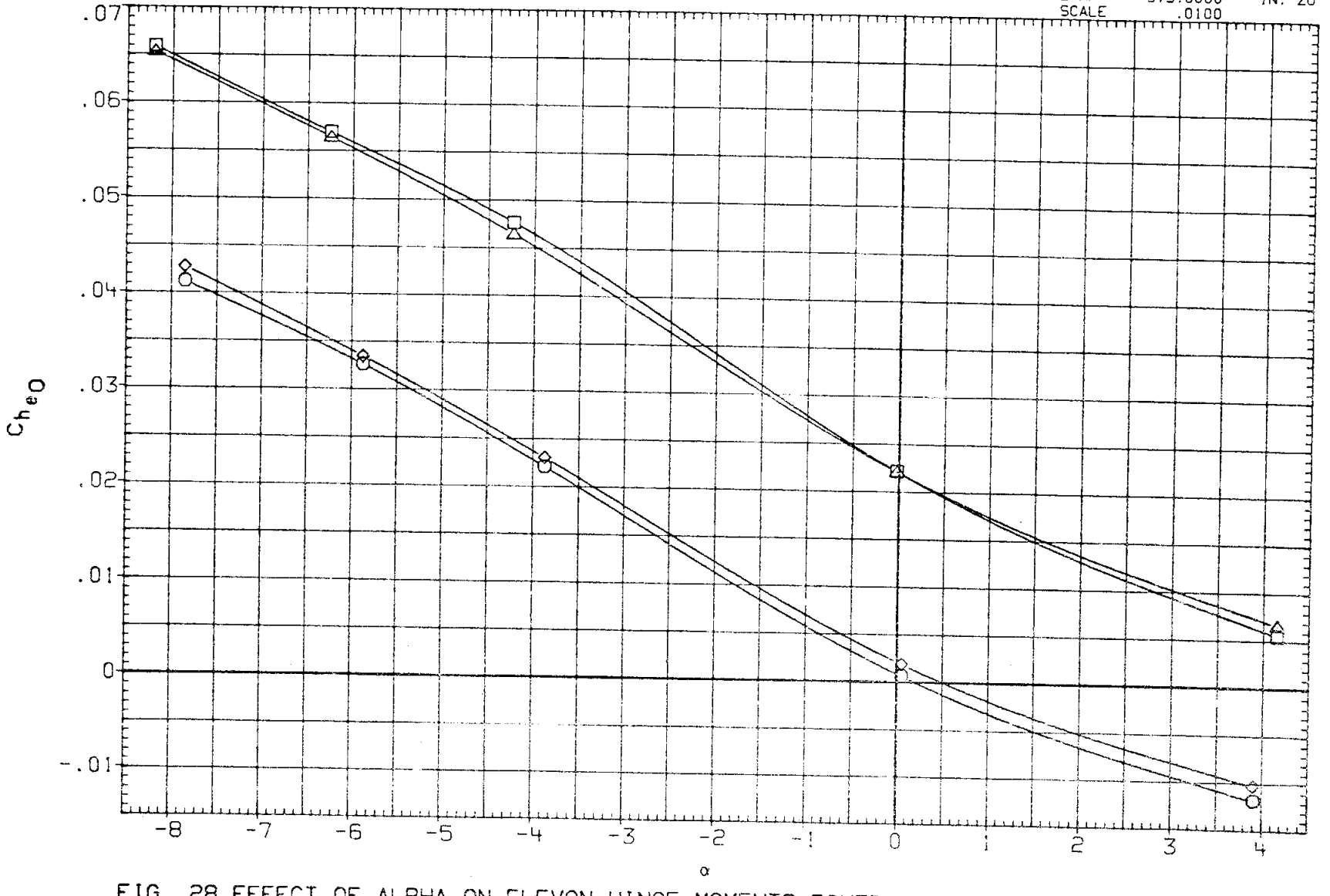

FIG. 28 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.55

(C)BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D035	▽	IA138 AMES 246-1-97	OTS	POWER ON	
R3D039	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SPBPR	SSMEPR
10.000	-2.000	1.800	.000	.000
10.000	-5.000	1.800	.000	.000
10.000	-7.000	1.800	.000	.000
10.000	-2.000	1.800	274.259	481.799
10.000	-5.000	1.800	274.113	481.102
10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

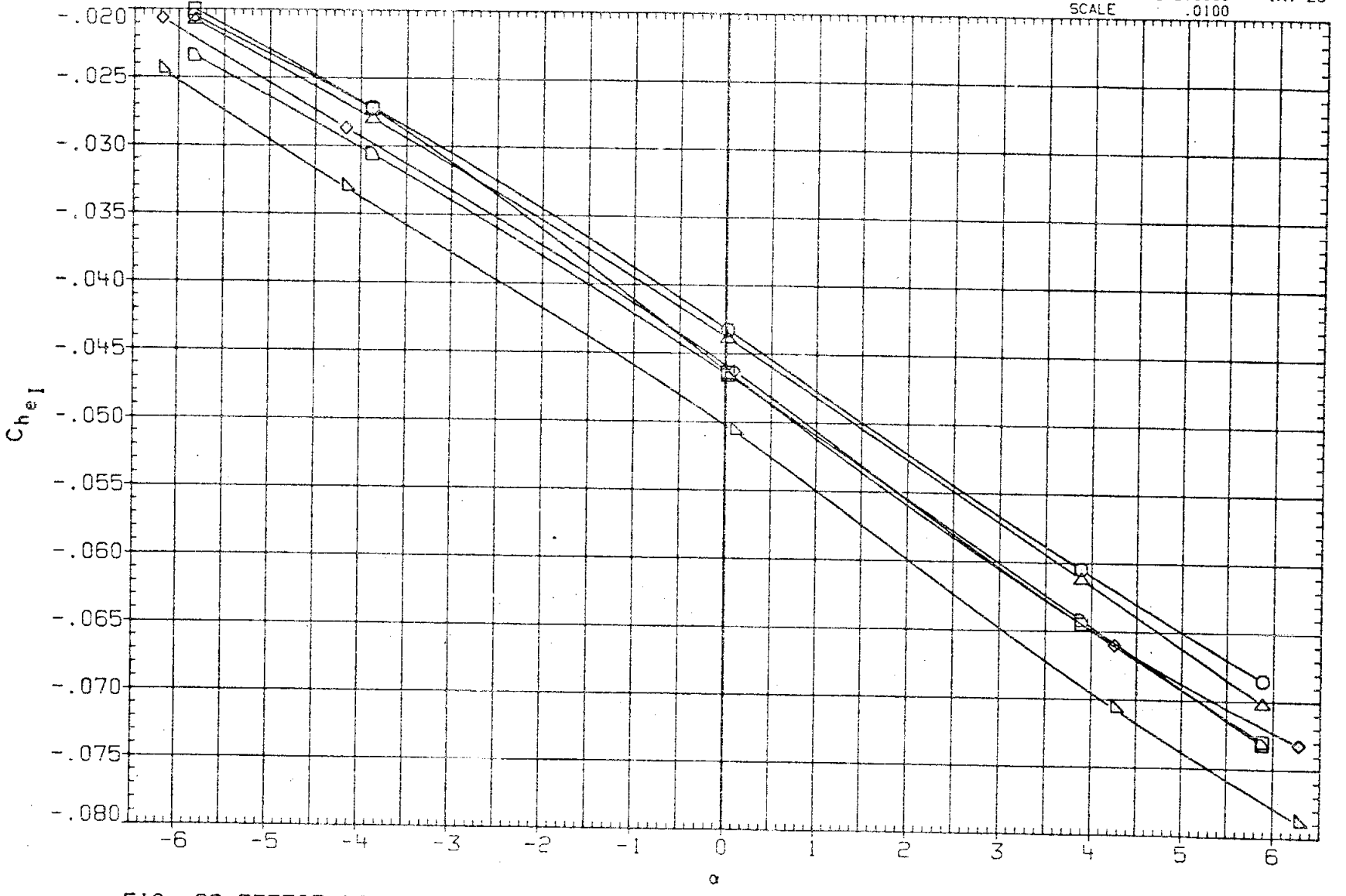

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(A) BETA = -4.08

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D035	▷	IA138 AMES 246-1-97	OTS	POWER ON
R3D039	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.800	.000	.000
10.000	-5.000	1.800	.000	.000
10.000	-7.000	1.800	.000	.000
10.000	-2.000	1.800	274.259	481.799
10.000	-5.000	1.800	274.113	481.102
10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

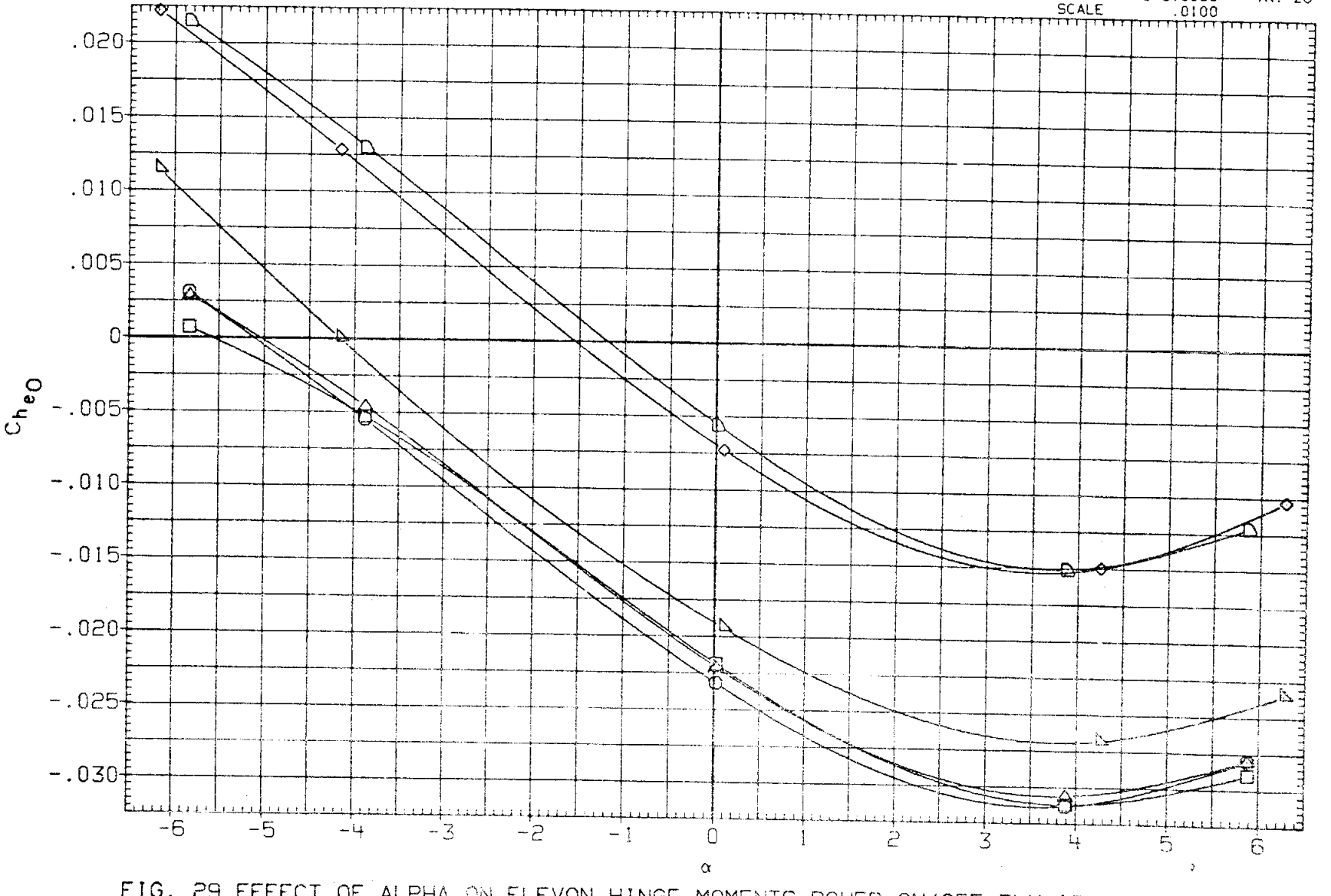

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(A) BETA = -4.08

DATE 17 OCT 78

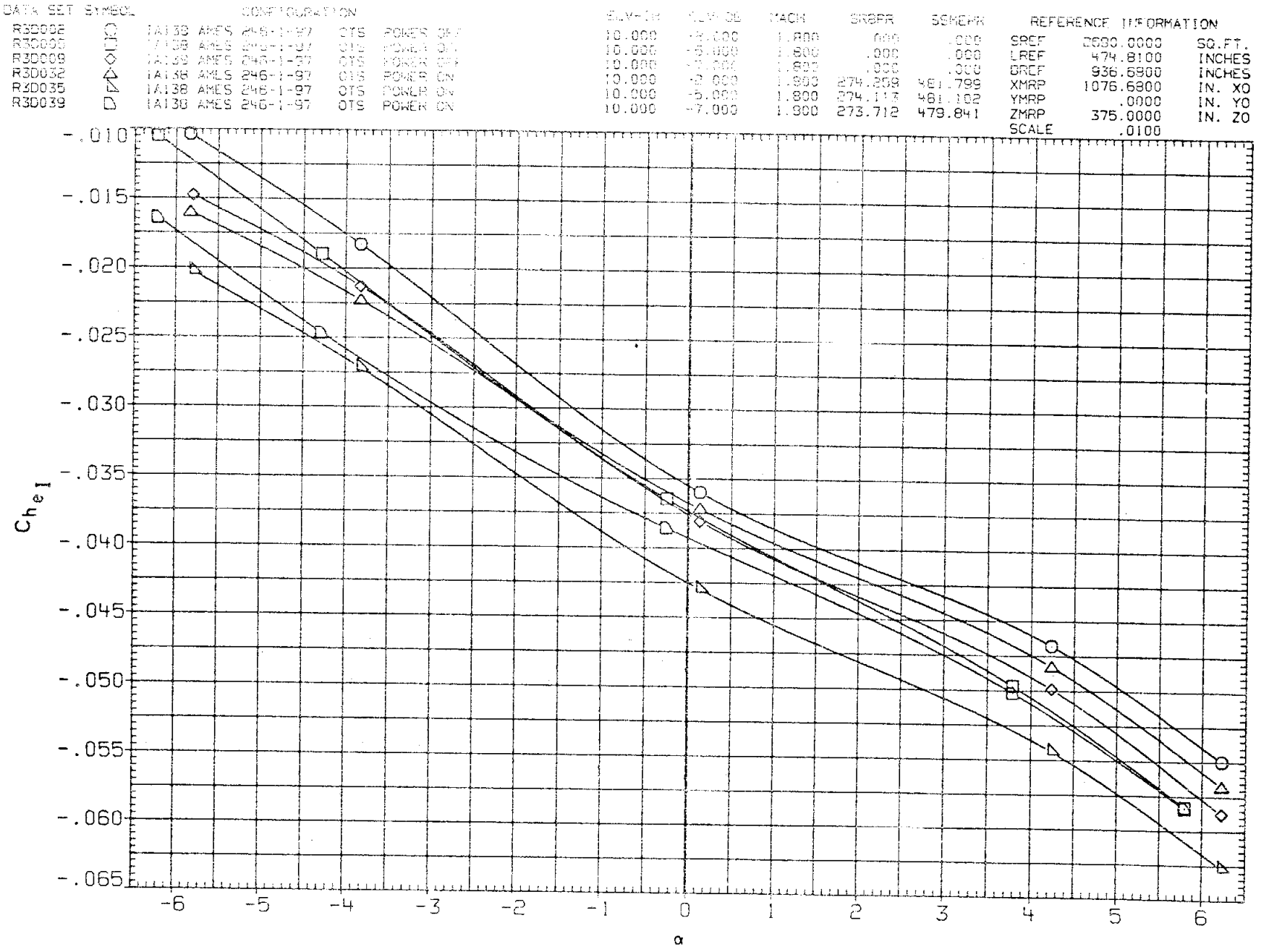

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(B) BETA = -.19

DATE 17 OCT 78

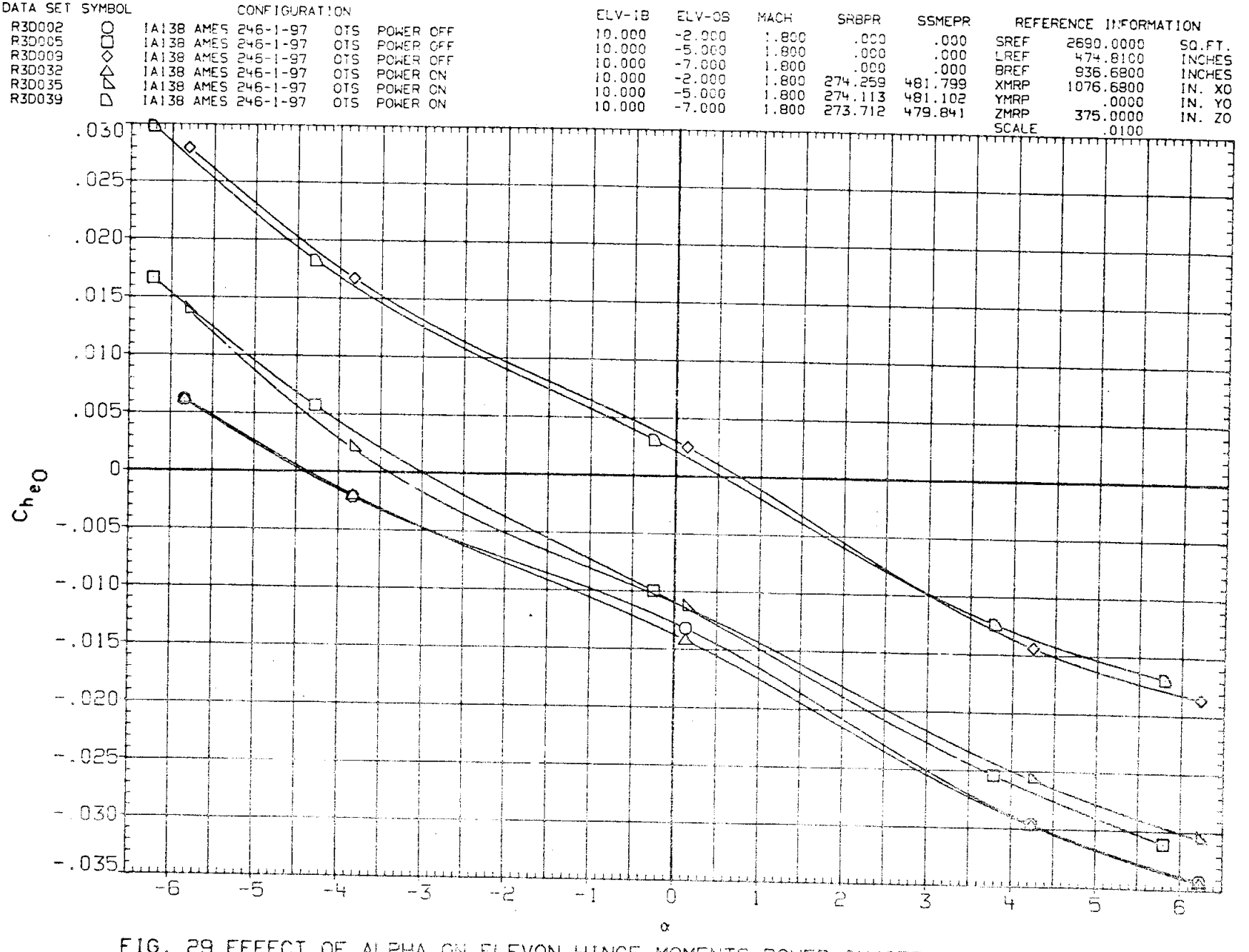

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(B) BETA = -.19

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D002	○	IA138 AMES 245-1-97	OTS	POWER OFF
R3D005	□	IA138 AMES 245-1-97	OTS	POWER OFF
R3D009	◇	IA138 AMES 245-1-97	OTS	POWER OFF
R3D032	▷/▷>LO	IA138 AMES 245-1-97	OTS	POWER ON
R3D035	△	IA138 AMES 245-1-97	OTS	POWER ON
R3D039	▷	IA138 AMES 245-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SPSPR	SSHSPR
10.000	-8.000	1.800	.000	.000
10.000	-8.000	1.800	.000	.000
10.000	-8.000	1.800	.000	.000
10.000	-8.000	1.800	274.258	481.798
10.000	-8.000	1.800	274.113	481.102
10.000	-8.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

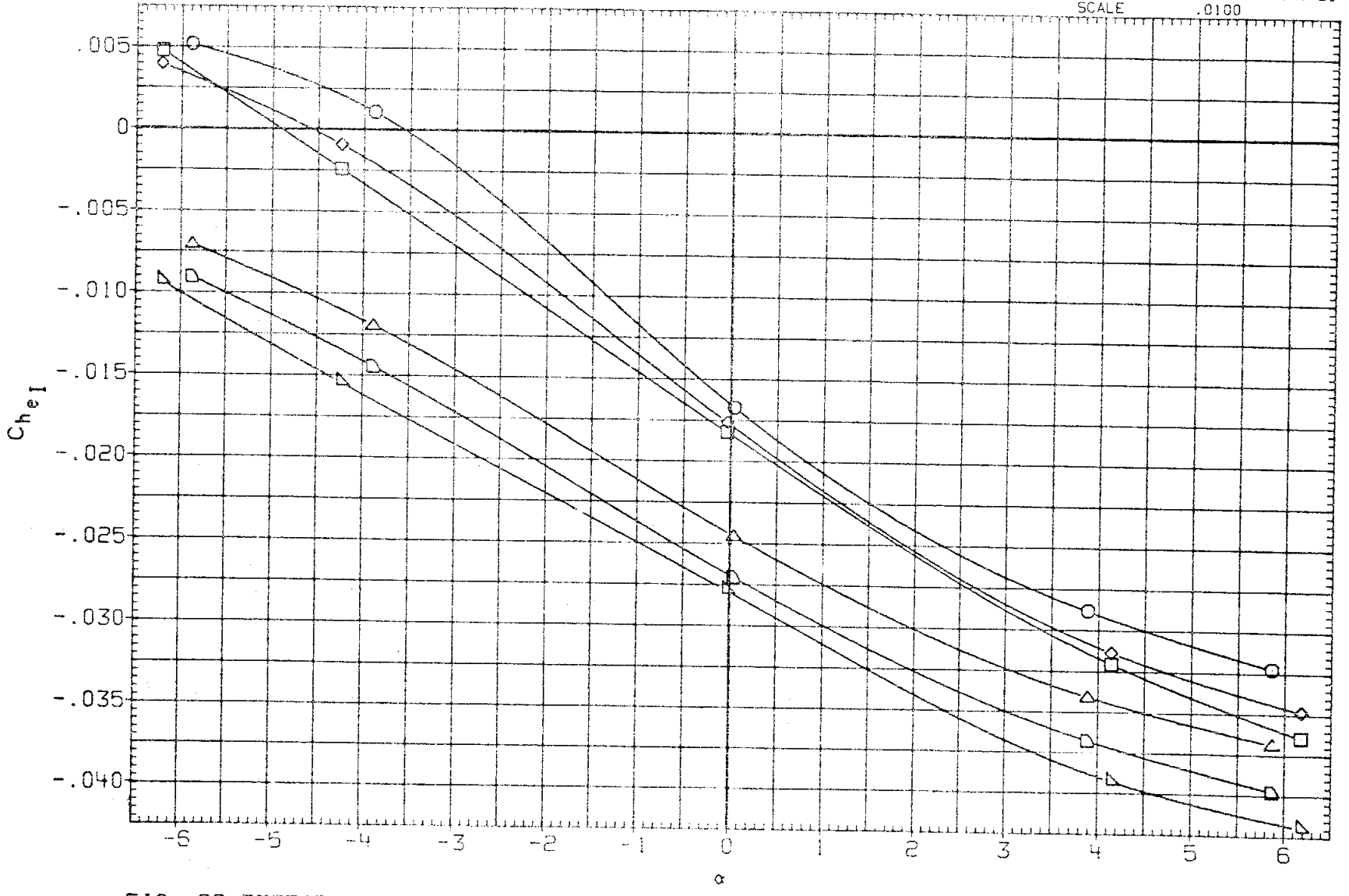

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(C) BETA = 3.71 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D002	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D005	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D009	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D032	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D035	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D039	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	1.800	.000	.000
10.000	-5.000	1.800	.000	.000
10.000	-7.000	1.800	.000	.000
10.000	-2.000	1.800	274.259	481.799
10.000	-5.000	1.800	274.113	481.102
10.000	-7.000	1.800	273.712	479.841

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

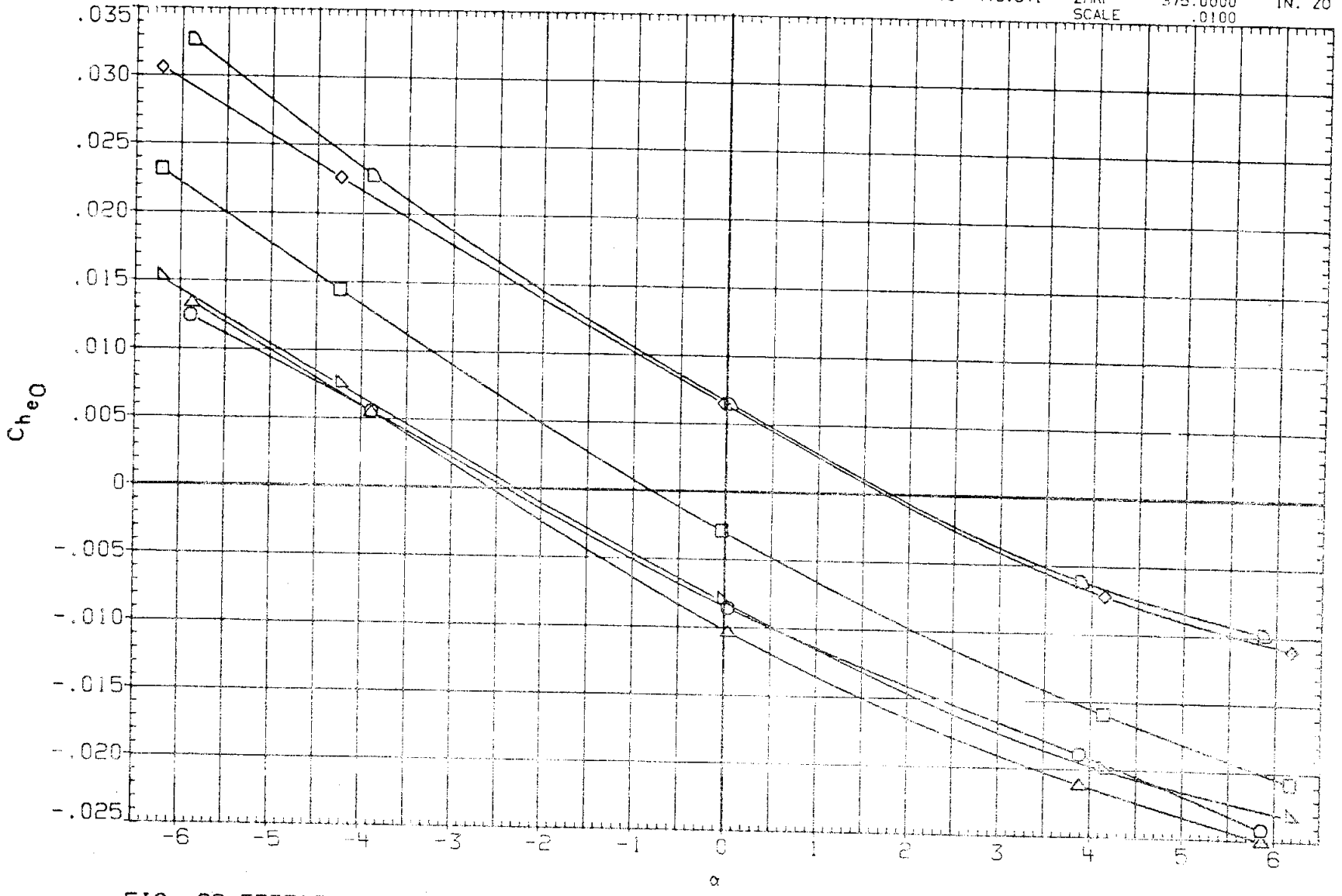

FIG. 29 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=1.8

(C)BETA = 3.71

DATE 17 OCT 78

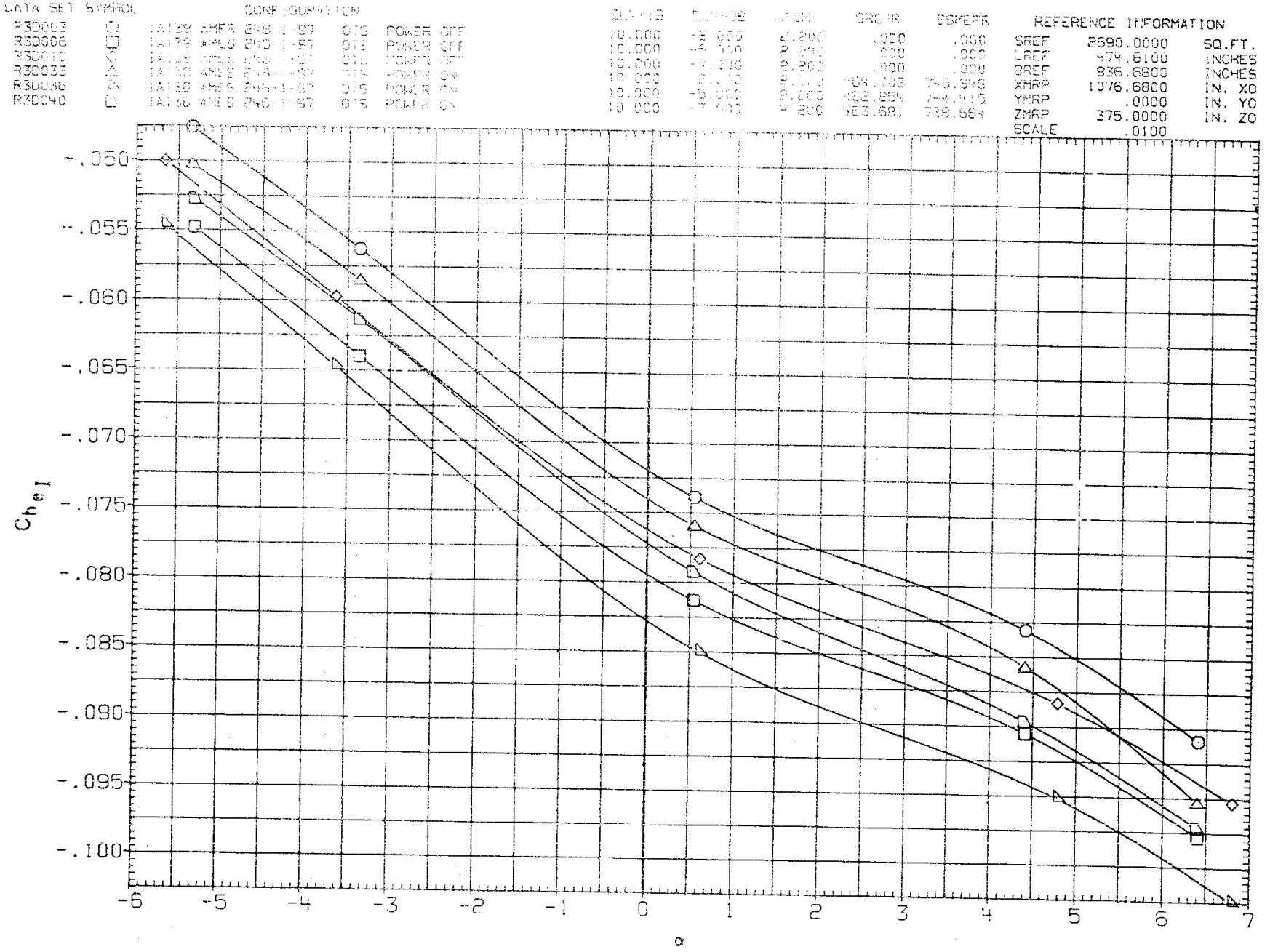

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(A)BETA = -4.08

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D036	▽	IA138 AMES 246-1-97	OTS	POWER ON	
R3D040	D	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-1B	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.200	.000	.000
10.000	-5.000	2.200	.000	.000
10.000	-7.000	2.200	.000	.000
10.000	-2.000	2.200	464.703	745.648
10.000	-5.000	2.200	462.854	744.415
10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

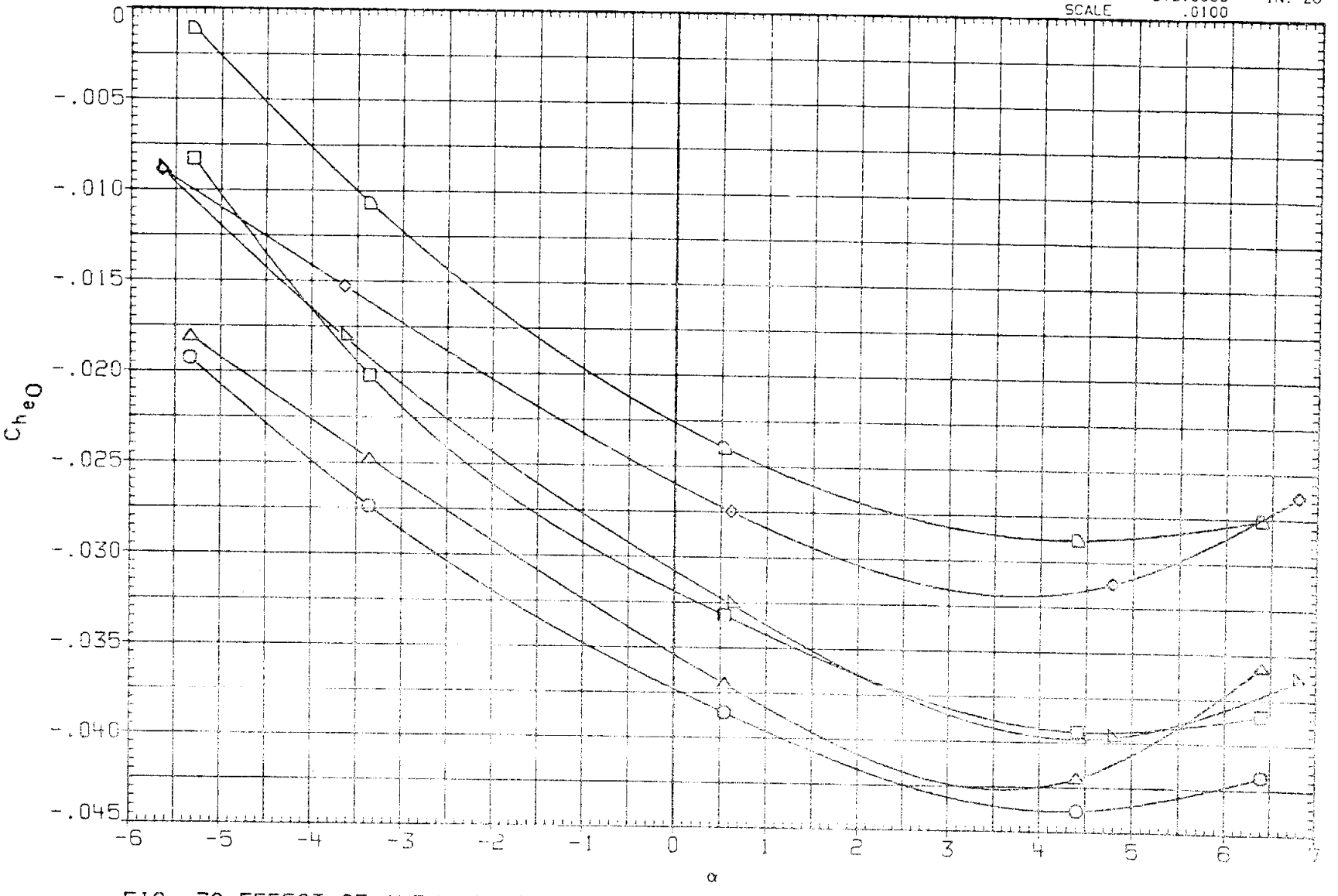

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-1B=10, MACH=2.2

(A) BETA = -4.08

DATE 17 OCT 78

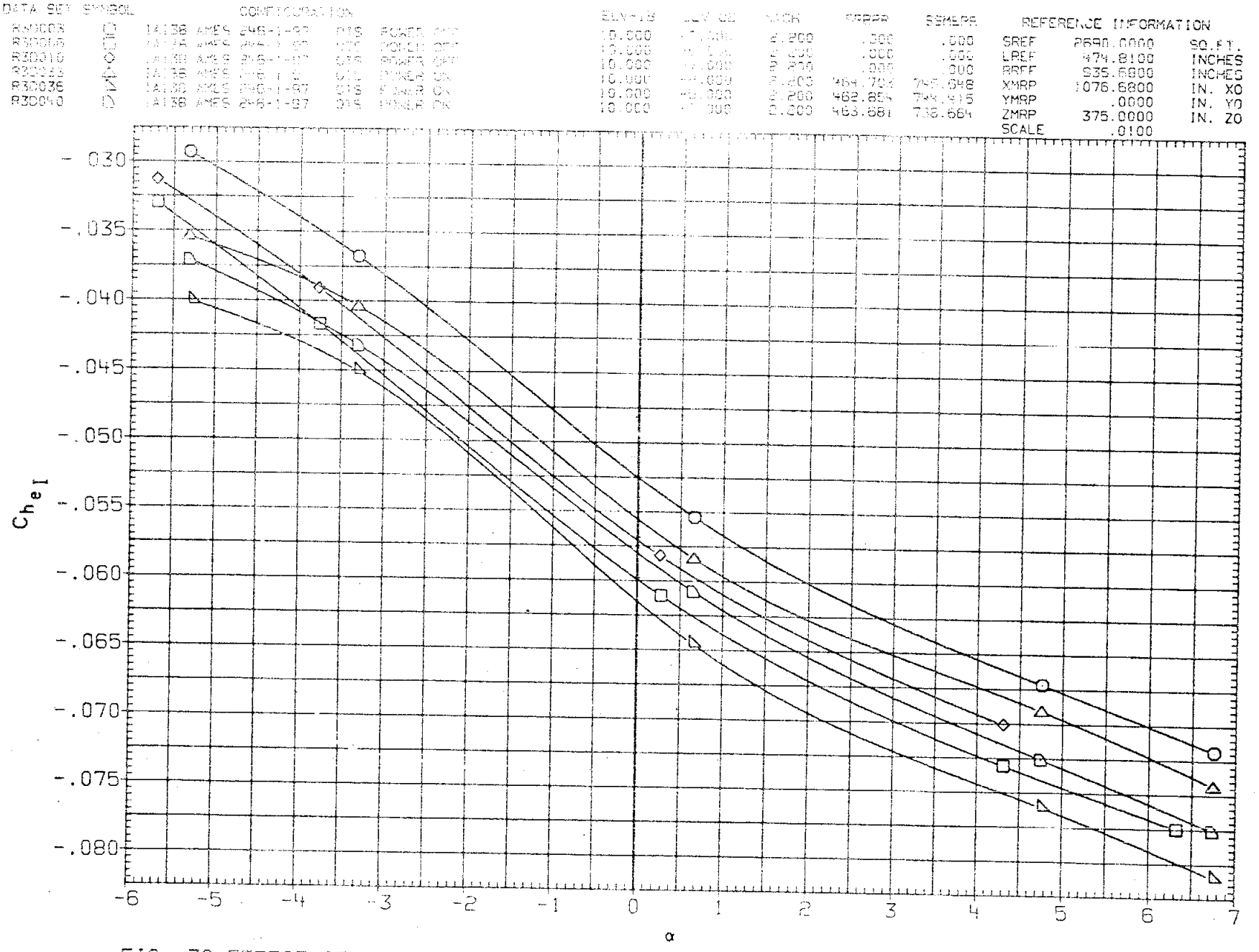

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D036	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D040	D	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.200	.000	.000
10.000	-5.000	2.200	.000	.000
10.000	-7.000	2.200	.000	.000
10.000	-2.000	2.200	464.703	745.648
10.000	-5.000	2.200	462.854	744.415
10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

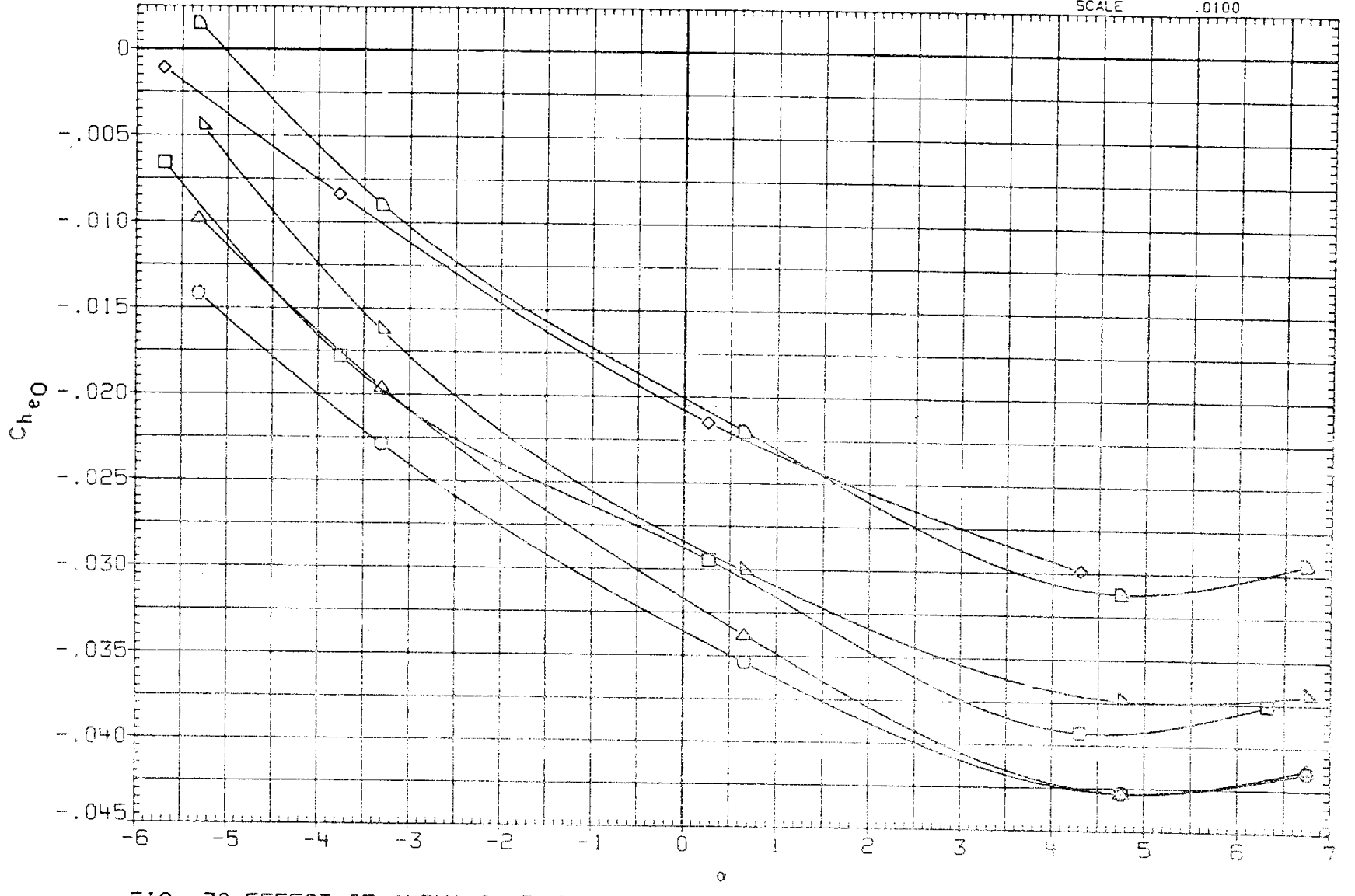

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

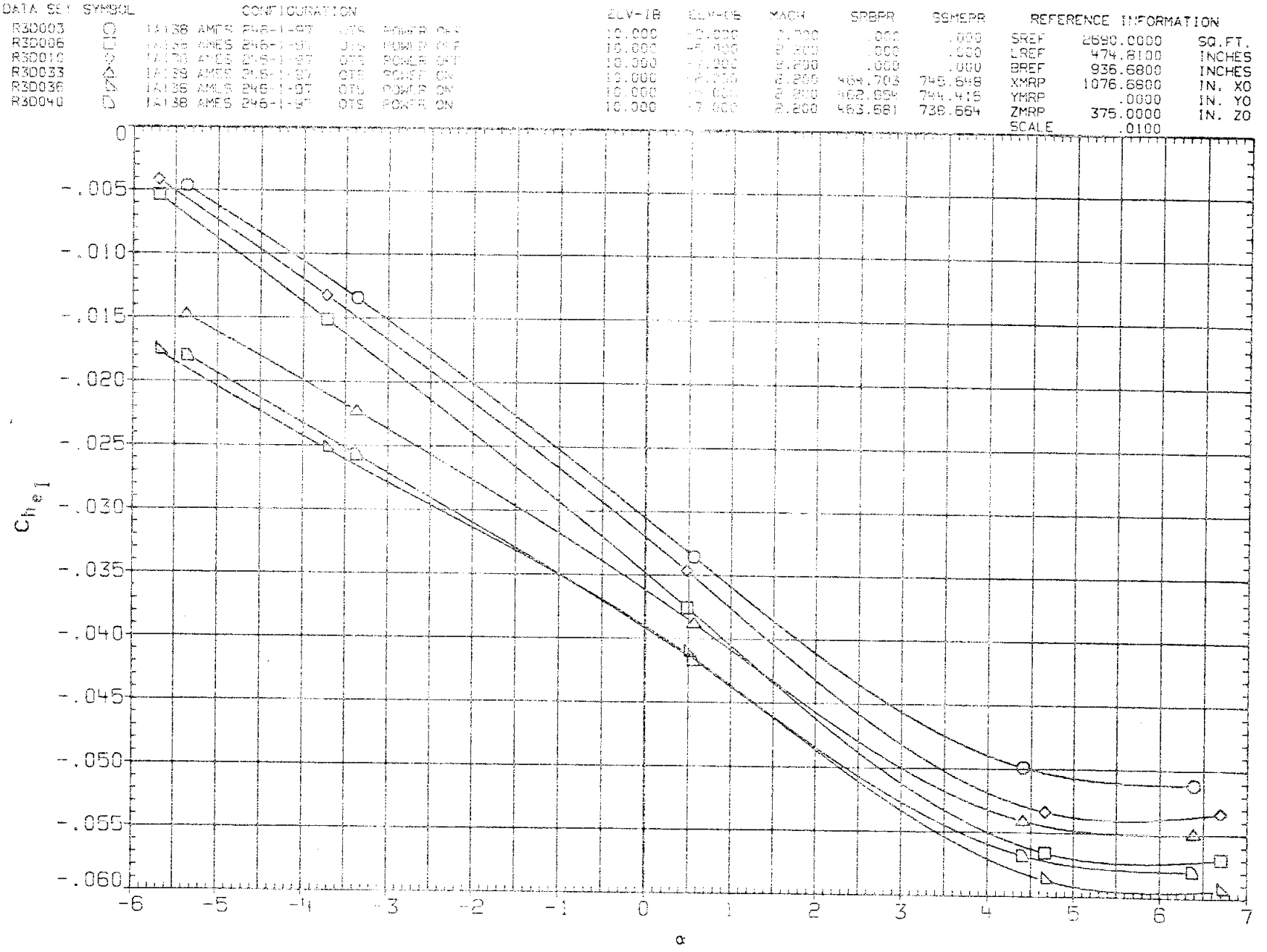

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH-2.2

(C)BETA = 3.73

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D003	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D006	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D010	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D033	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D036	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D040	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.200	.000	.000
10.000	-5.000	2.200	.000	.000
10.000	-7.000	2.200	.000	.000
10.000	-2.000	2.200	464.703	745.648
10.000	-5.000	2.200	452.854	744.415
10.000	-7.000	2.200	453.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1075.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

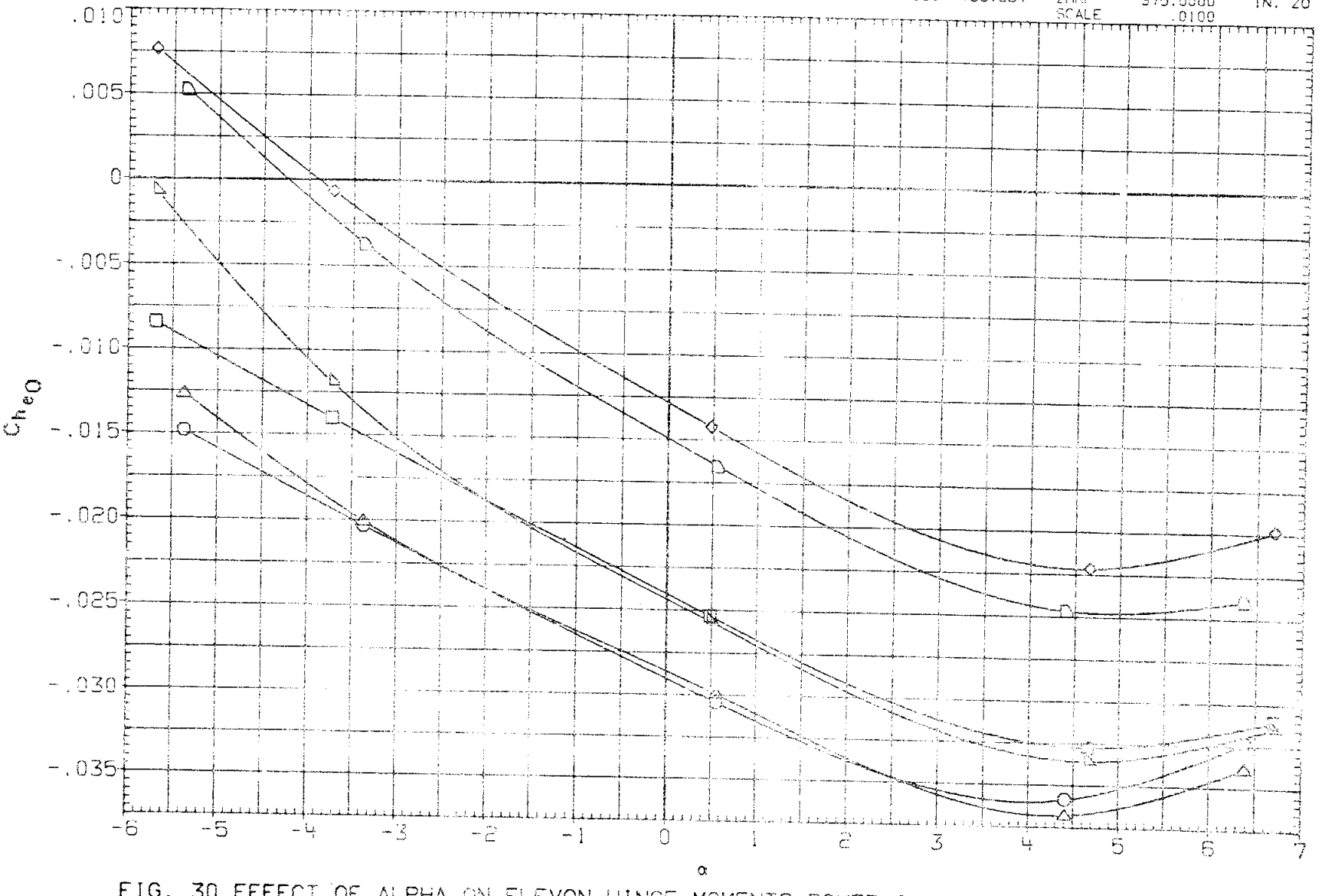

FIG. 30 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.2

(C)BETA = 3.73

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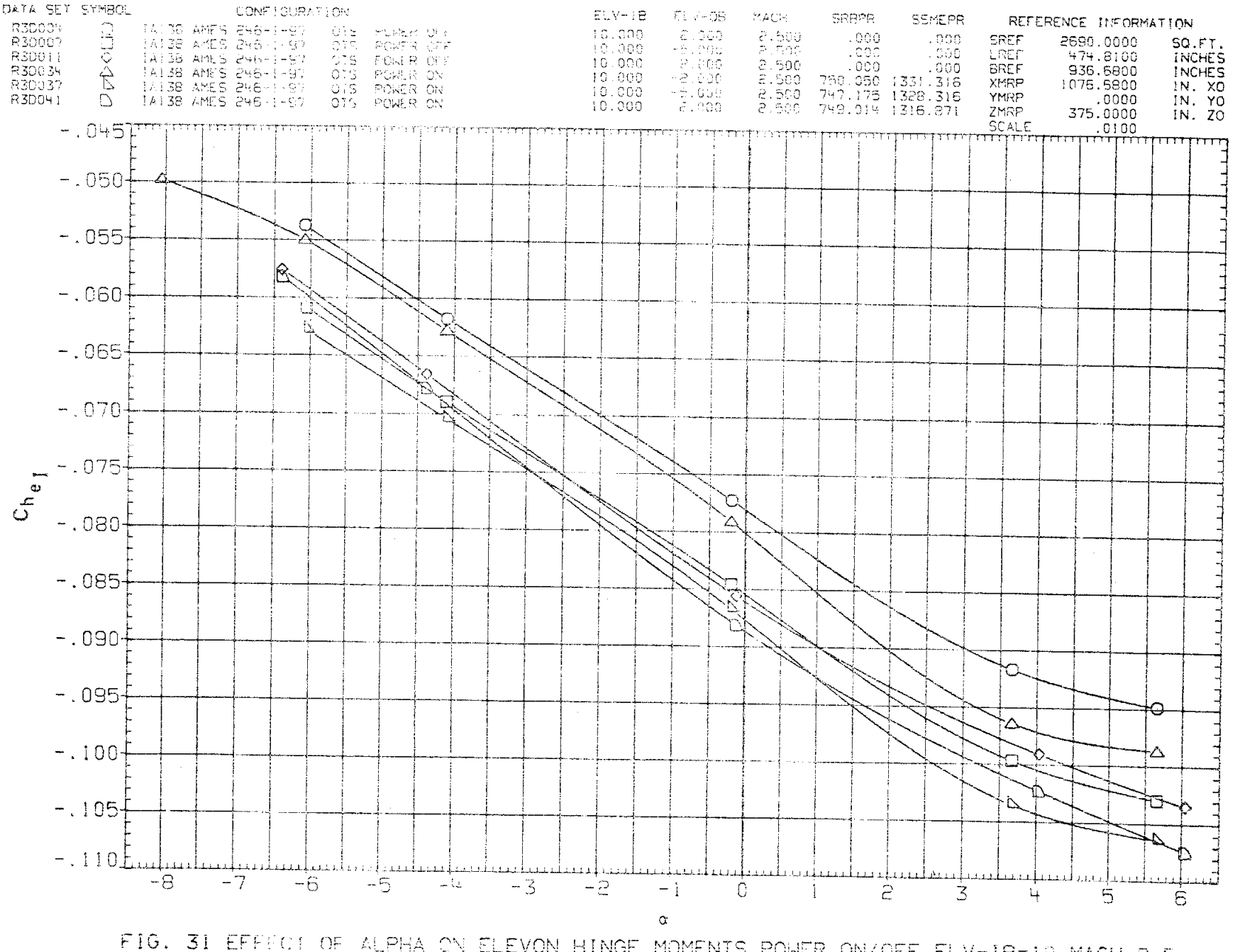

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-1B=10, MACH=2.5

(A) BETA = -4.02

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DATA SET	SYMBOL	CONFIGURATION			
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D037	▷	IA138 AMES 246-1-97	OTS	POWER ON	
R3D041	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SREFR	SSMEFR
10.000	-2.000	2.500	.000	.000
10.000	-5.000	2.500	.000	.000
10.000	2.000	2.500	.000	.000
10.000	-2.000	2.500	780.050	1331.316
10.000	-5.000	2.500	749.105	1328.316
10.000	2.000	2.500	748.014	1316.871

REFERENCE INFORMATION		
SREF	2000.0000	SQ.FT.
LREF	474.6100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

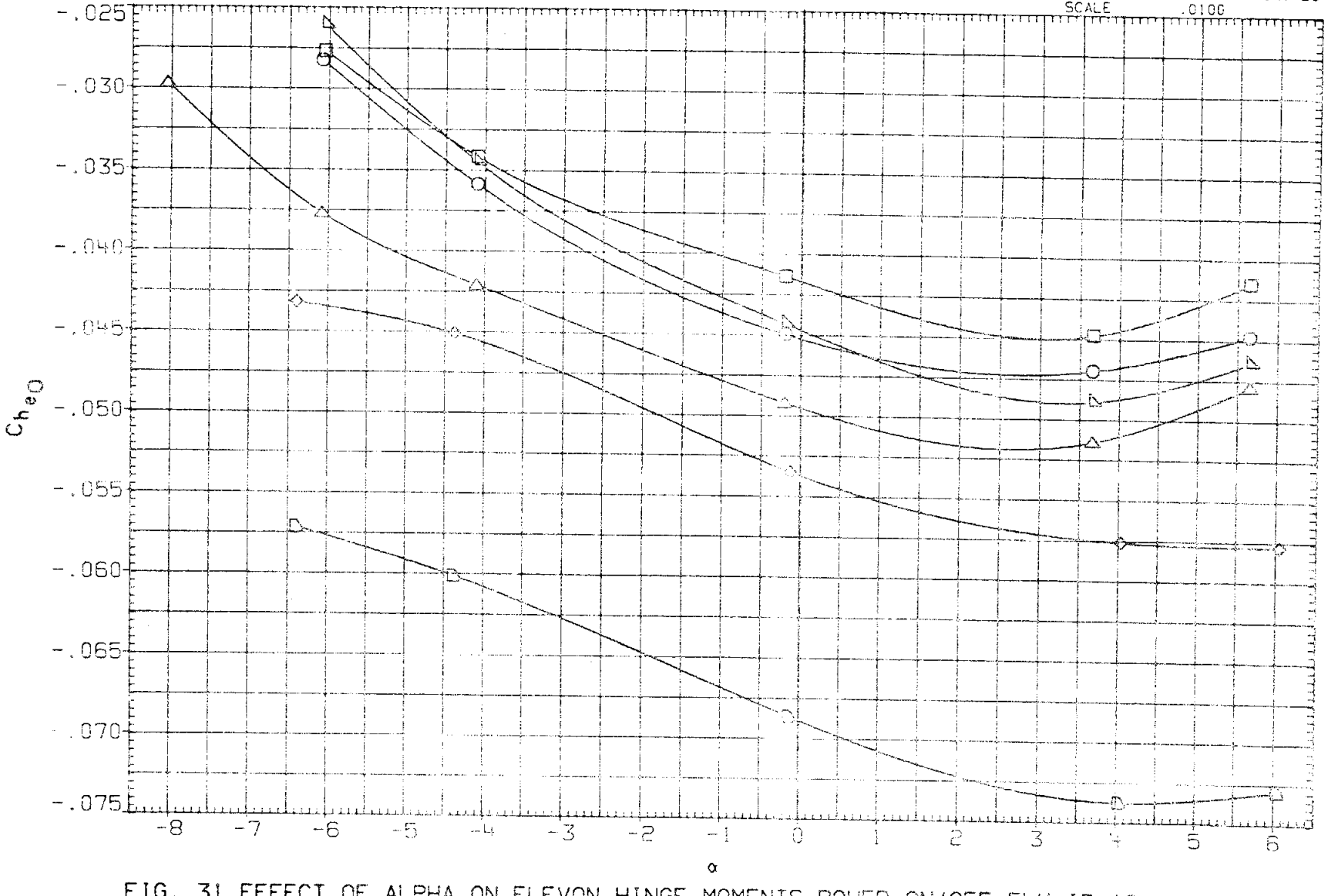

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(A) BETA = -4.02

DATA SET	SYMBOL	CONFIGURATION		
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D011	◇△	IA138 AMES 246-1-97	OTS	POWER OFF
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D037	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D041	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-10.000	2.500	.000	.000
10.000	-5.000	2.500	.000	.000
10.000	0.000	2.500	.000	.000
10.000	+2.000	2.500	750.050	1331.316
10.000	+5.000	2.500	747.175	1328.316
10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

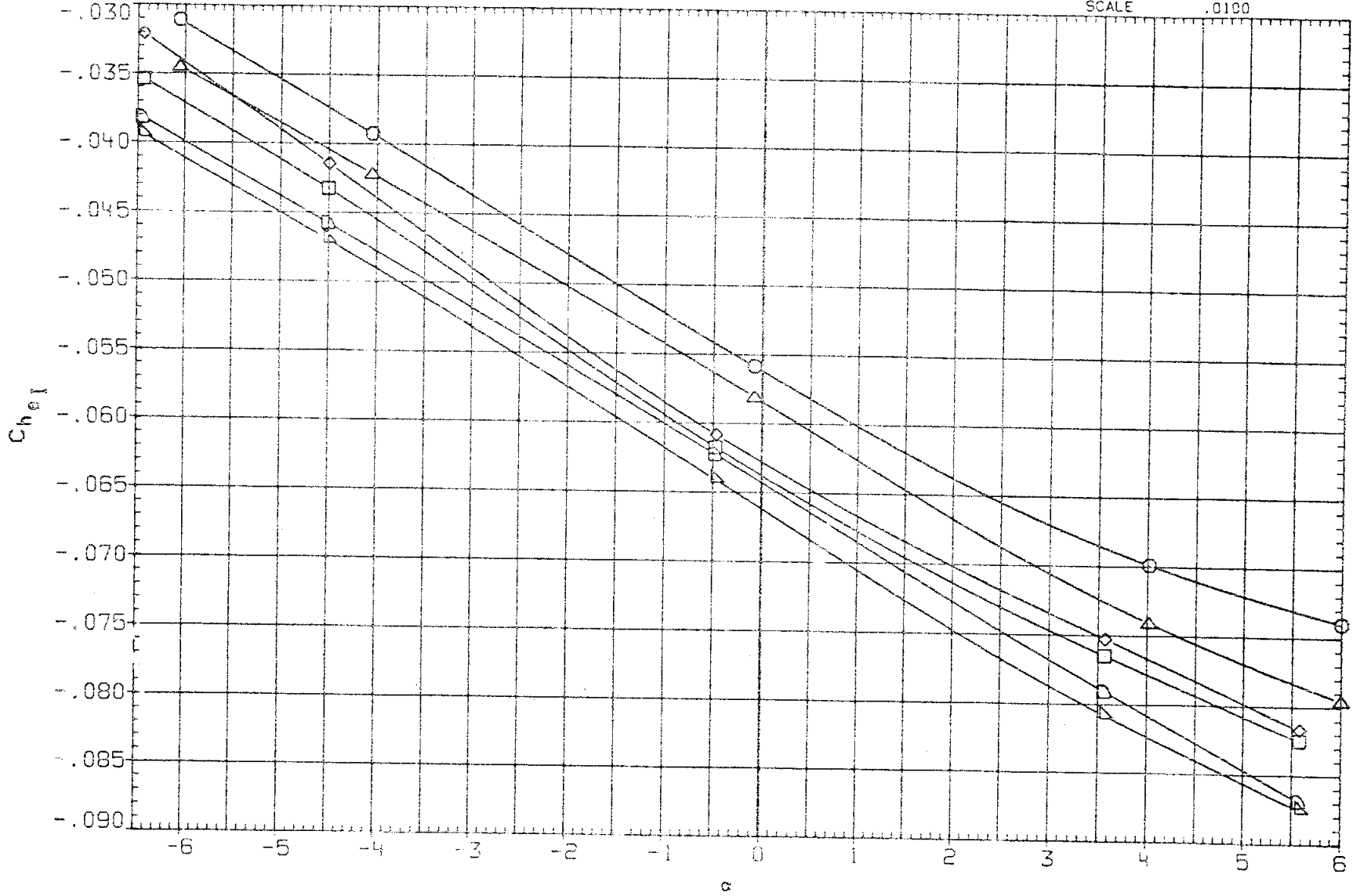

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS.POWER ON/OFF,ELV-IB=),MACH=2.5

(B)BETA = -.13

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DATA SET	SYMBOL	CONFIGURATION			
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D037	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D041	▱	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
10.000	-2.000	2.500	.000	.000
10.000	-5.000	2.500	.000	.000
10.000	2.000	2.500	.000	.000
10.000	-2.000	2.500	750.050	1331.316
10.000	-5.000	2.500	747.175	1328.316
10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

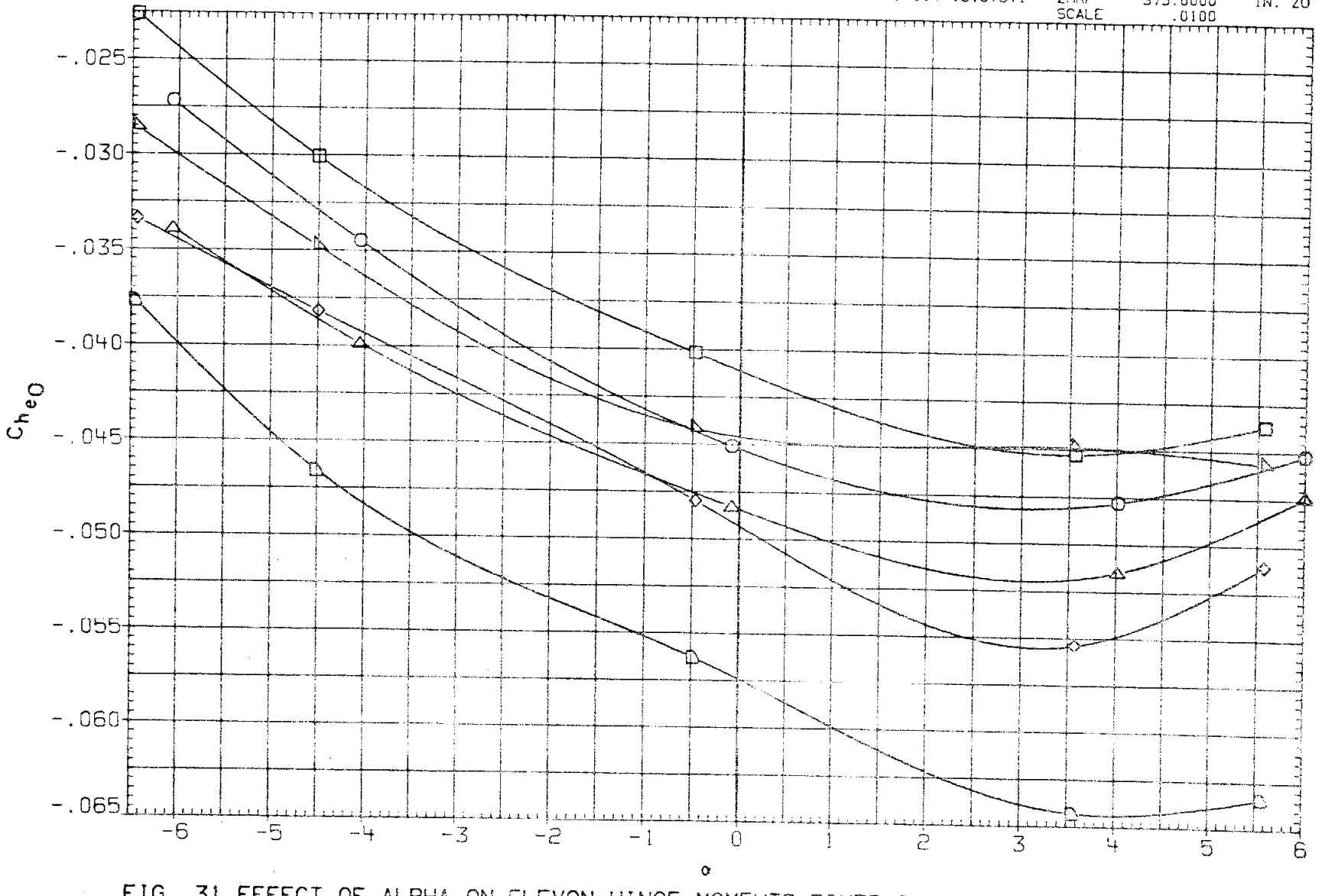

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(B) BETA = -.13

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DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV OB	MACH	SRBPR	SSMEPR
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.500	.000	.000
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.500	.000	.000
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	2.000	2.500	.000	.000
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.500	750.050	1331.316
R3D037	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.500	747.175	1328.316
R3D041	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

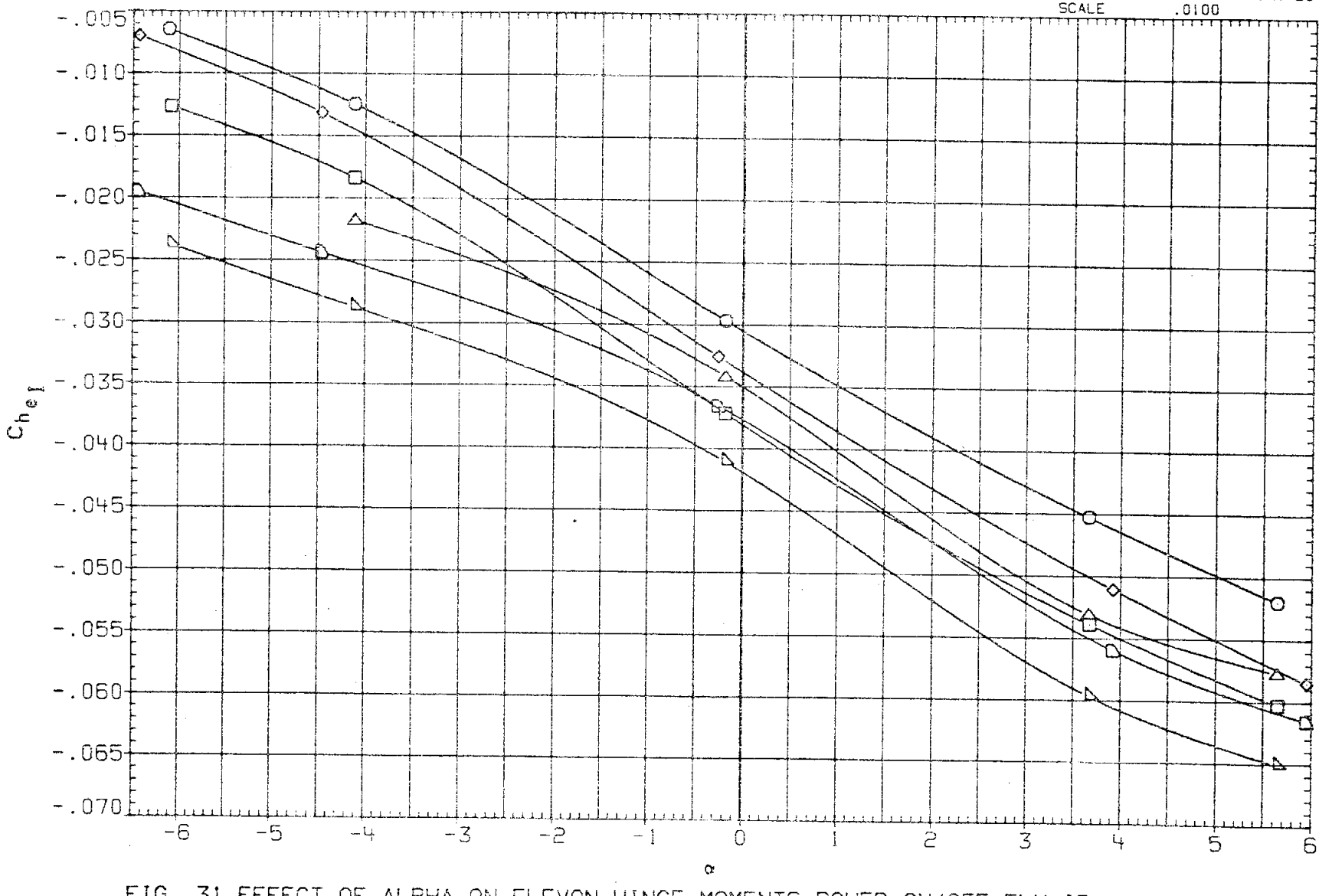

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.5

(C)BETA = 3.77

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DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D004	○	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-2.000	2.500	.000	.000
R3D007	□	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	-5.000	2.500	.000	.000
R3D011	◇	IA138 AMES 246-1-97	OTS	POWER OFF	10.000	2.000	2.500	.000	.000
R3D034	△	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-2.000	2.500	750.050	1331.316
R3D037	◁	IA138 AMES 246-1-97	OTS	POWER ON	10.000	-5.000	2.500	747.175	1328.316
R3D041	▷	IA138 AMES 246-1-97	OTS	POWER ON	10.000	2.000	2.500	749.014	1316.871

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

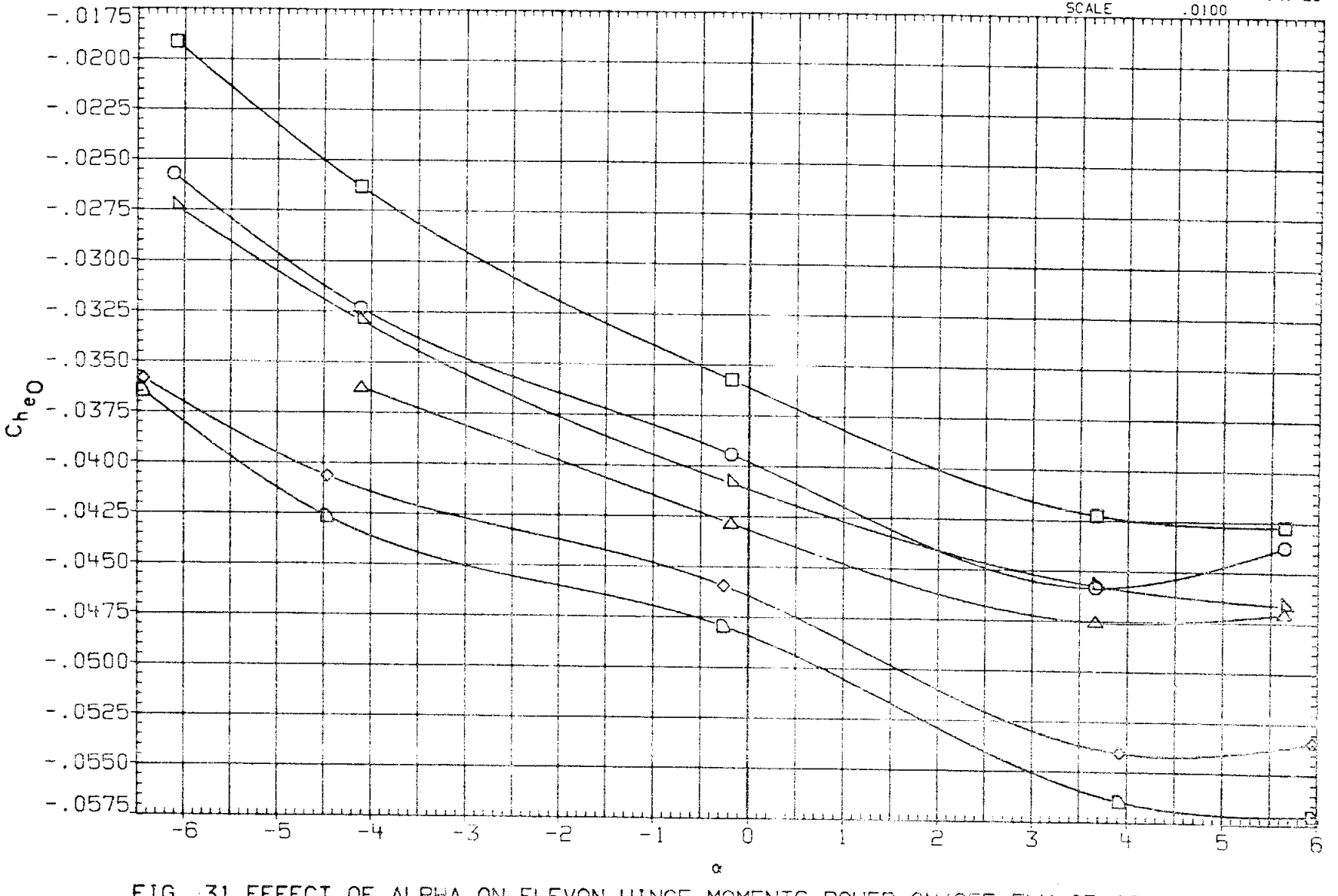

FIG. 31 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=10, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.671
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

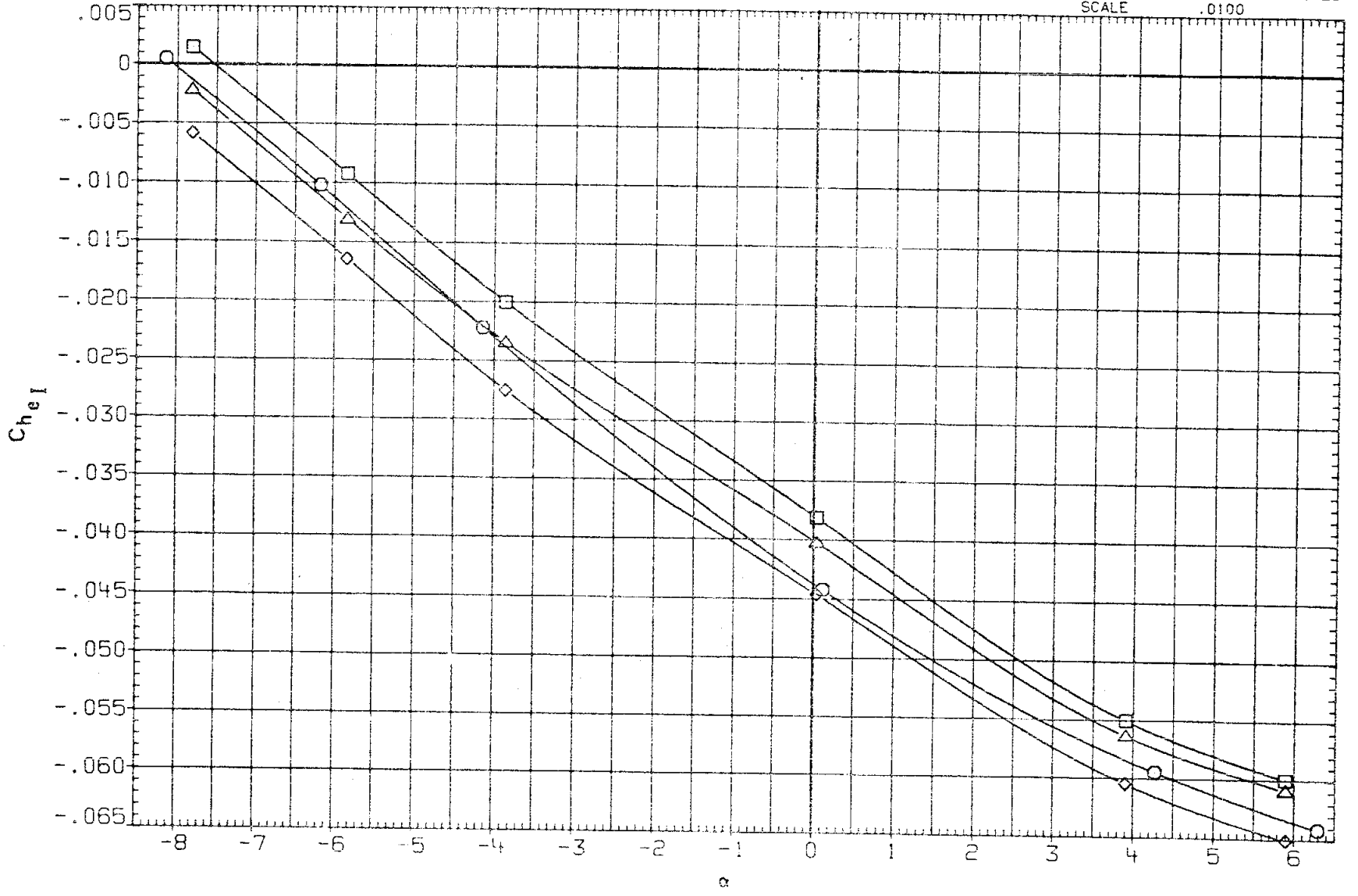

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(A) BETA = -4.32

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	195.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

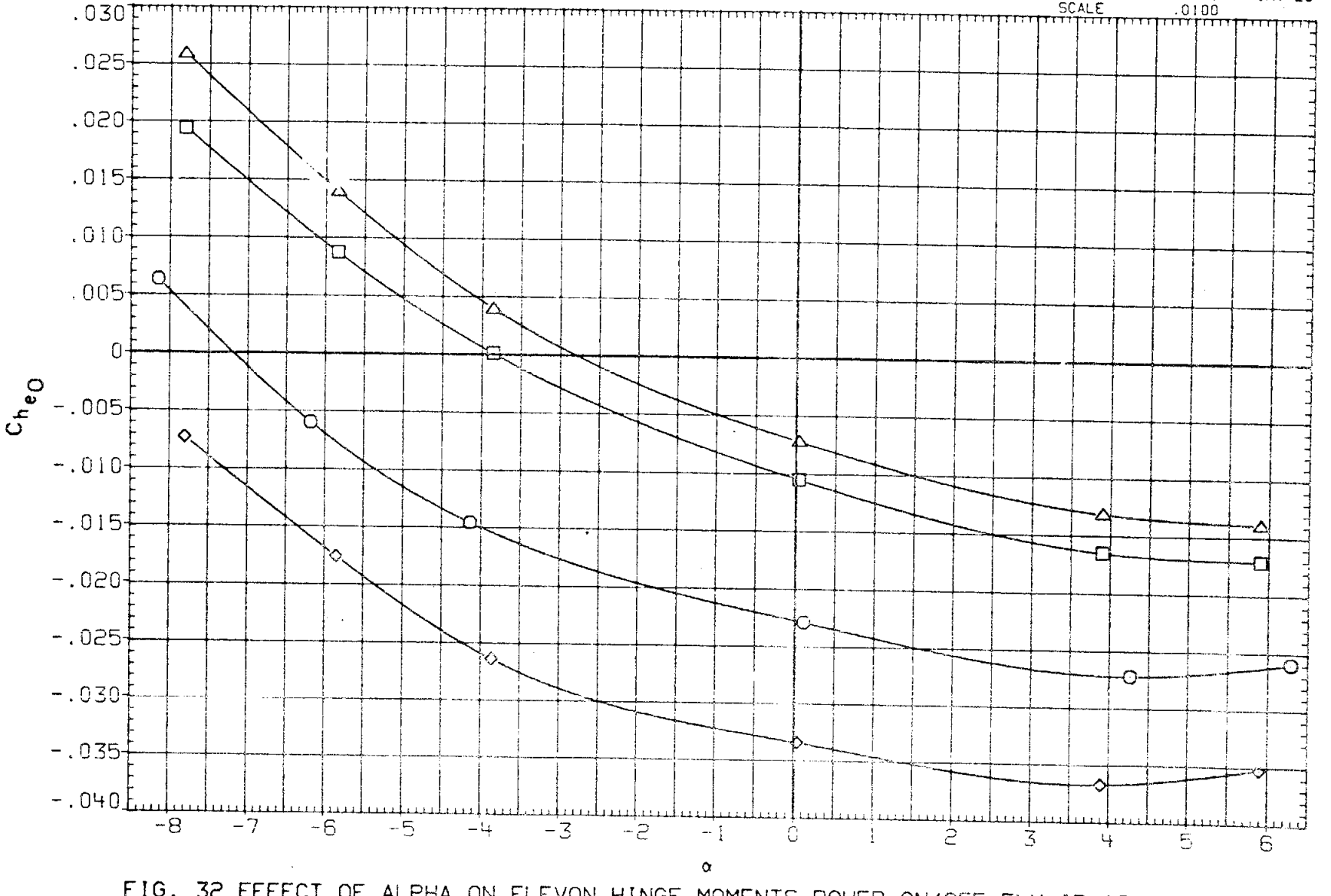

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(A) BETA = -4.32

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.071
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

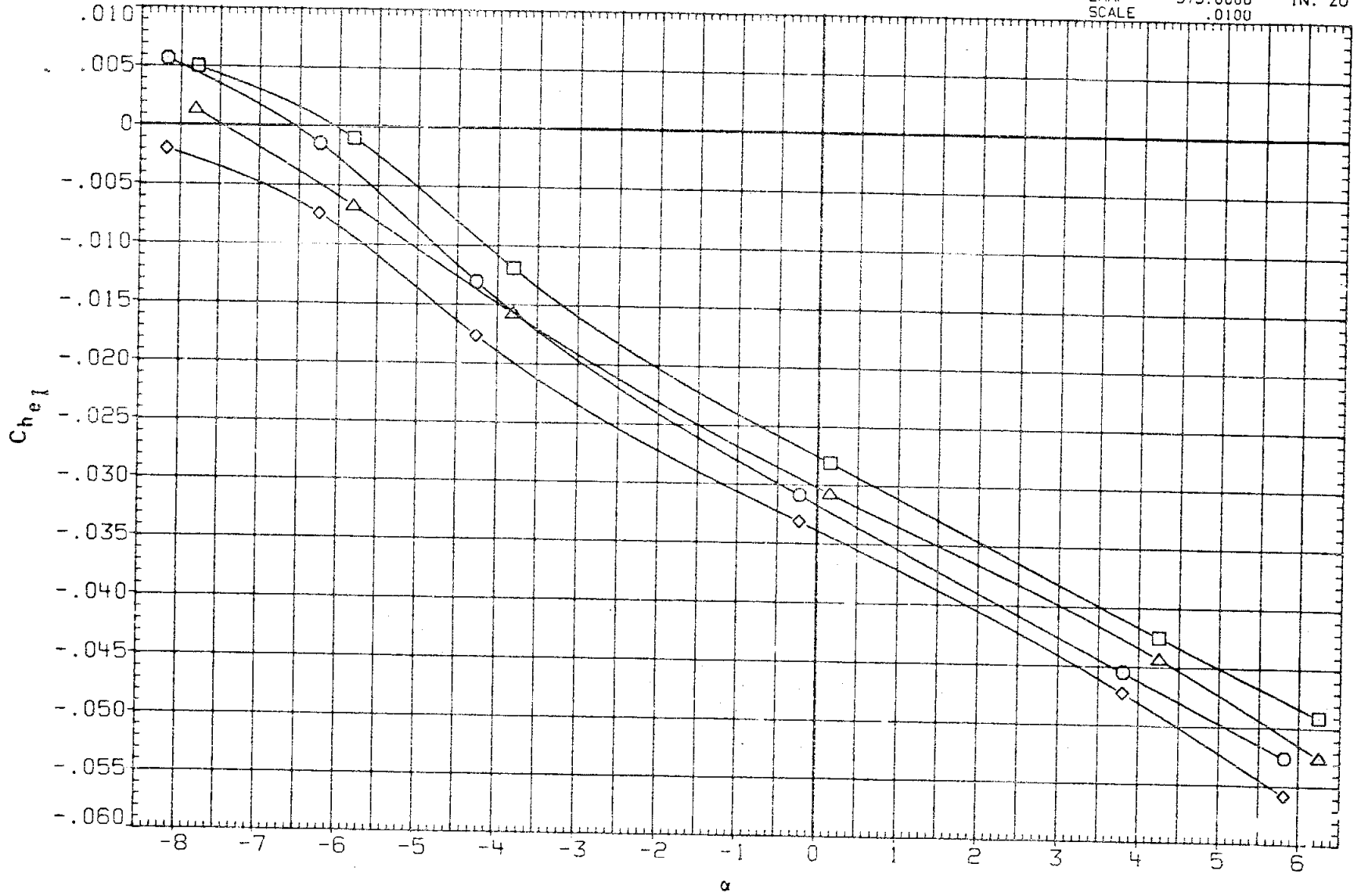

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(B) BETA = -.26

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D012	○	1A138 AMES 246-1-97	OTS	POWER OFF
R3D015	□	1A138 AMES 246-1-97	OTS	POWER OFF
R3D042	◇	1A138 AMES 246-1-97	OTS	POWER ON
R3D045	△	1A138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

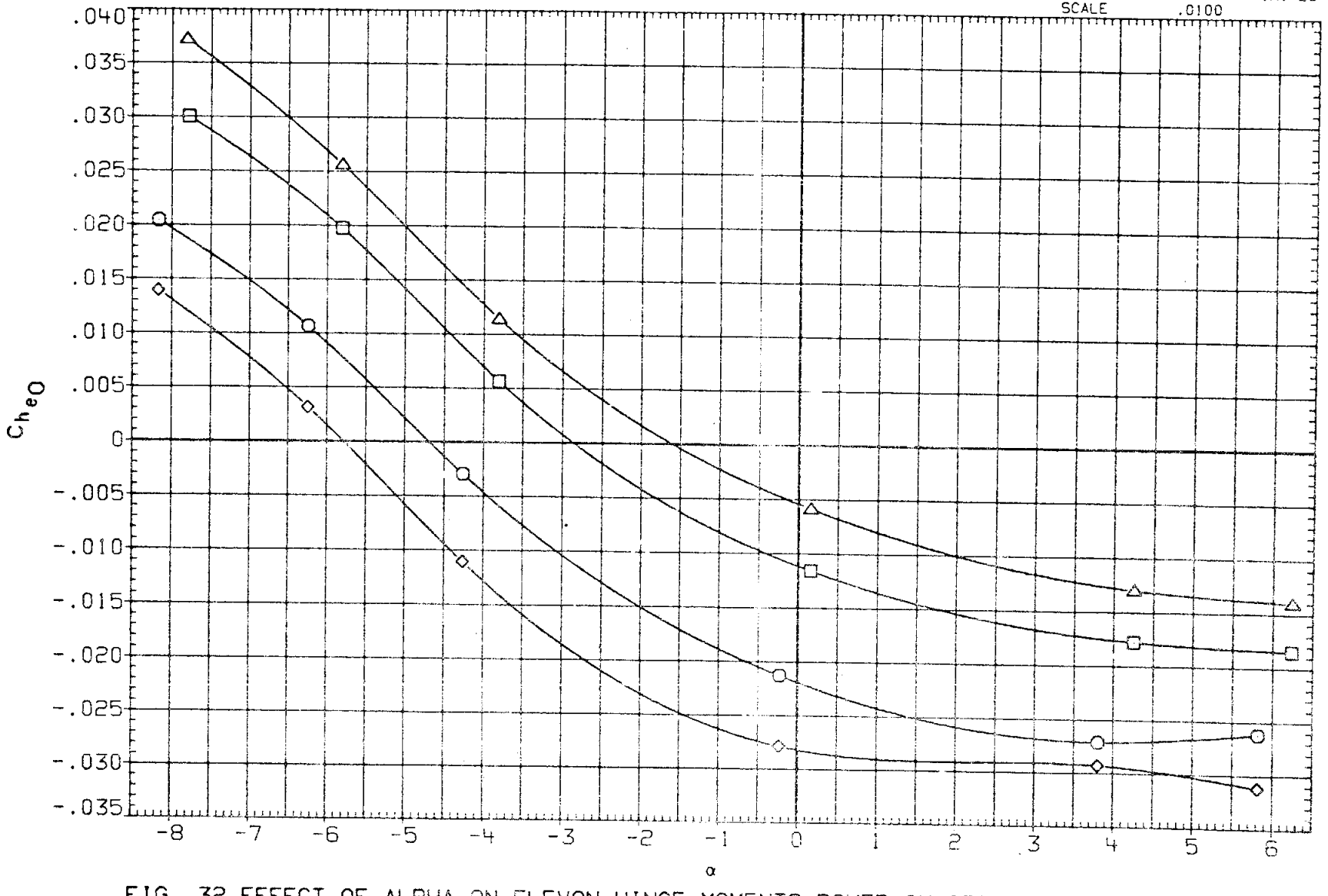

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(B) BETA = -.26

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R3D012	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D015	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D042	◇	IA138 AMES 246-1-97 OTS POWER ON
R3D045	△	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

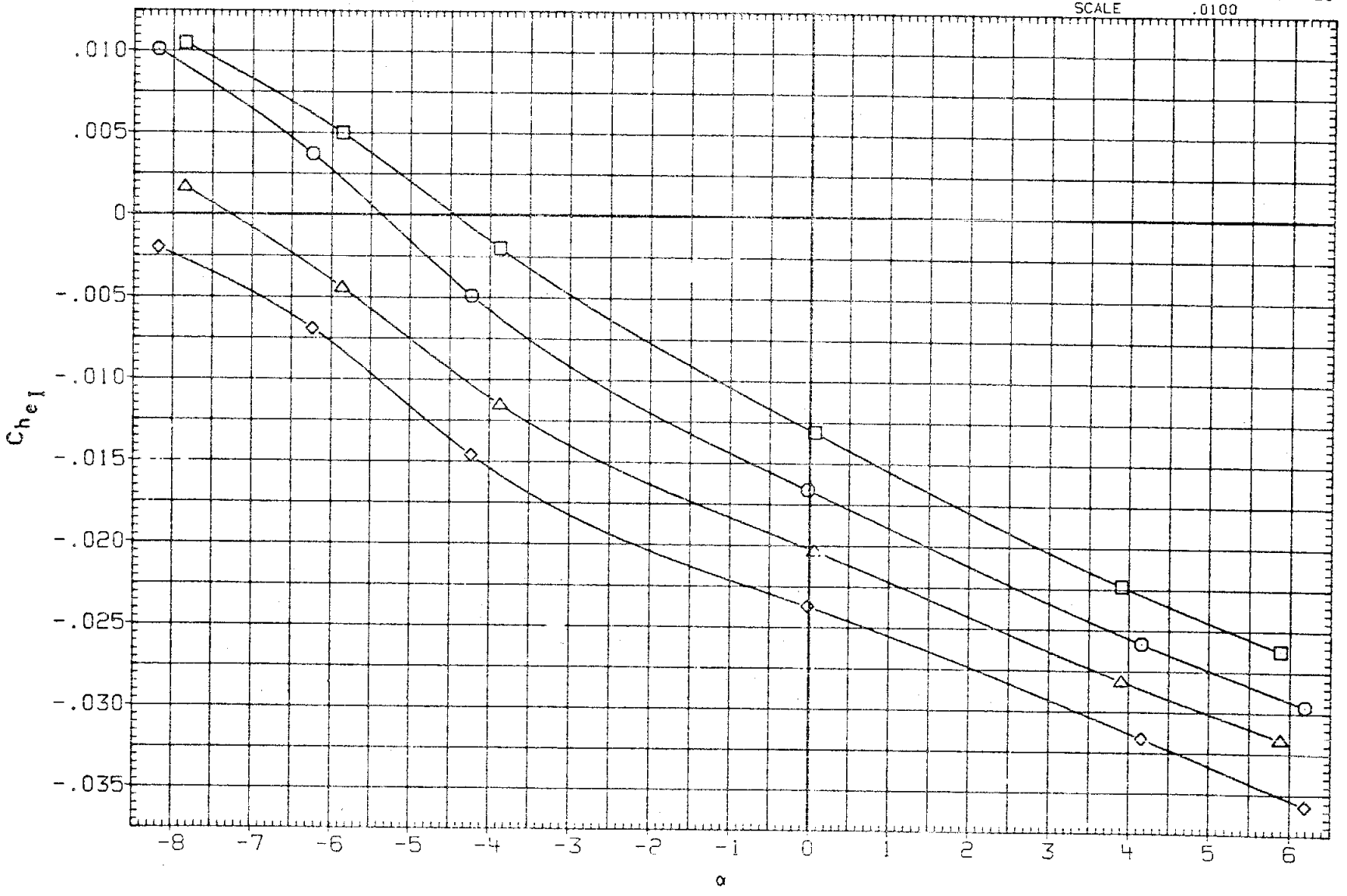

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(C)BETA = 3.77

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D012	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D015	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D042	◇	IA138 AMES 246-1-97	OTS	POWER ON	
R3D045	△	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.550	.000	.000
12.000	-7.000	1.550	.000	.000
12.000	-2.000	1.550	196.334	371.871
12.000	-7.000	1.550	196.380	370.730

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

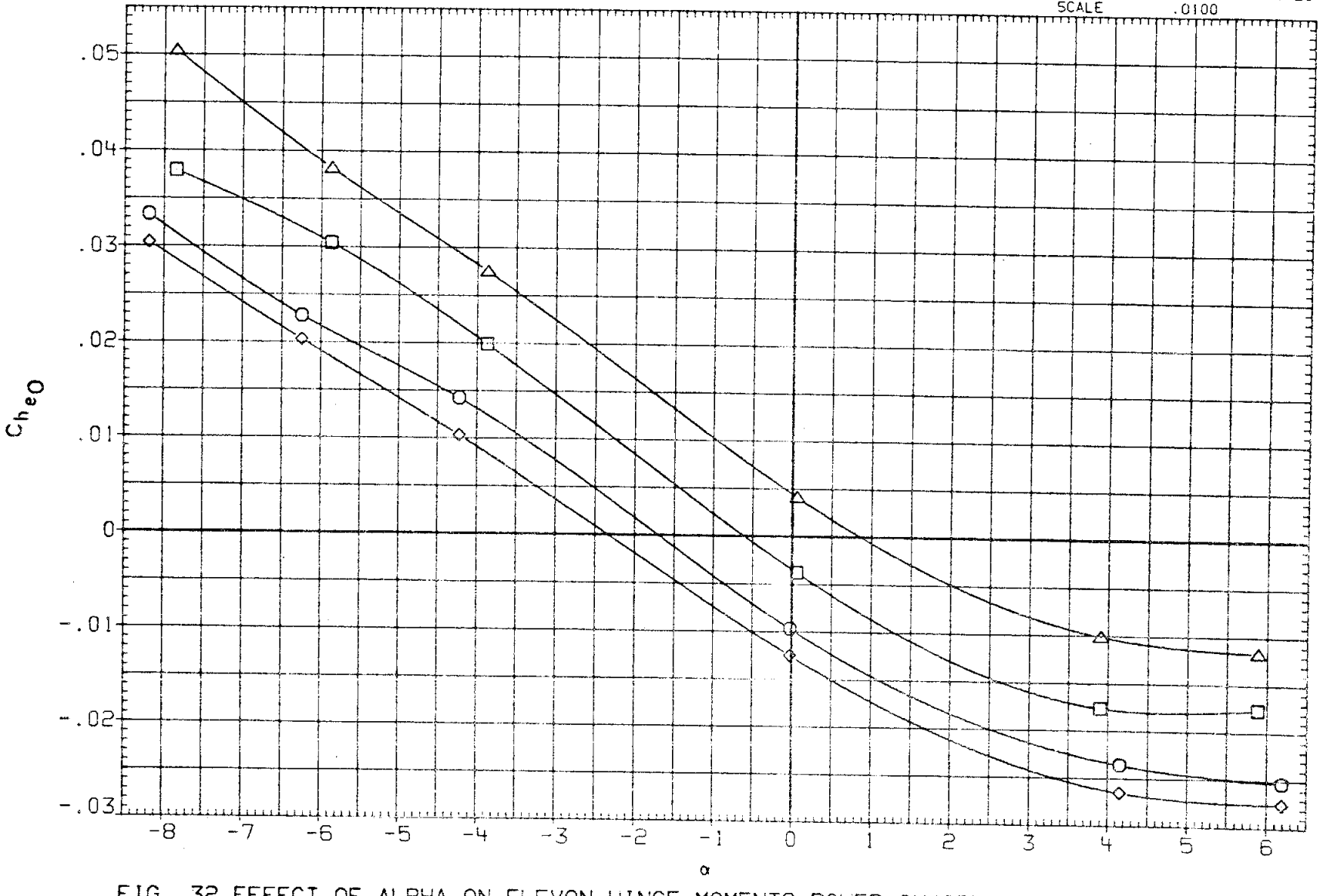

FIG. 32 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.55

(C)BETA = 3.77

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION				ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-2.000	1.800	.000	.000
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-5.000	1.800	.000	.000
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF		12.000	-7.000	1.800	.000	.000
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-2.000	1.800	274.808	475.914
R3D044	◸	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-5.000	1.800	274.742	477.942
R3D046	▱	IA138 AMES 246-1-97	OTS	POWER ON		12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

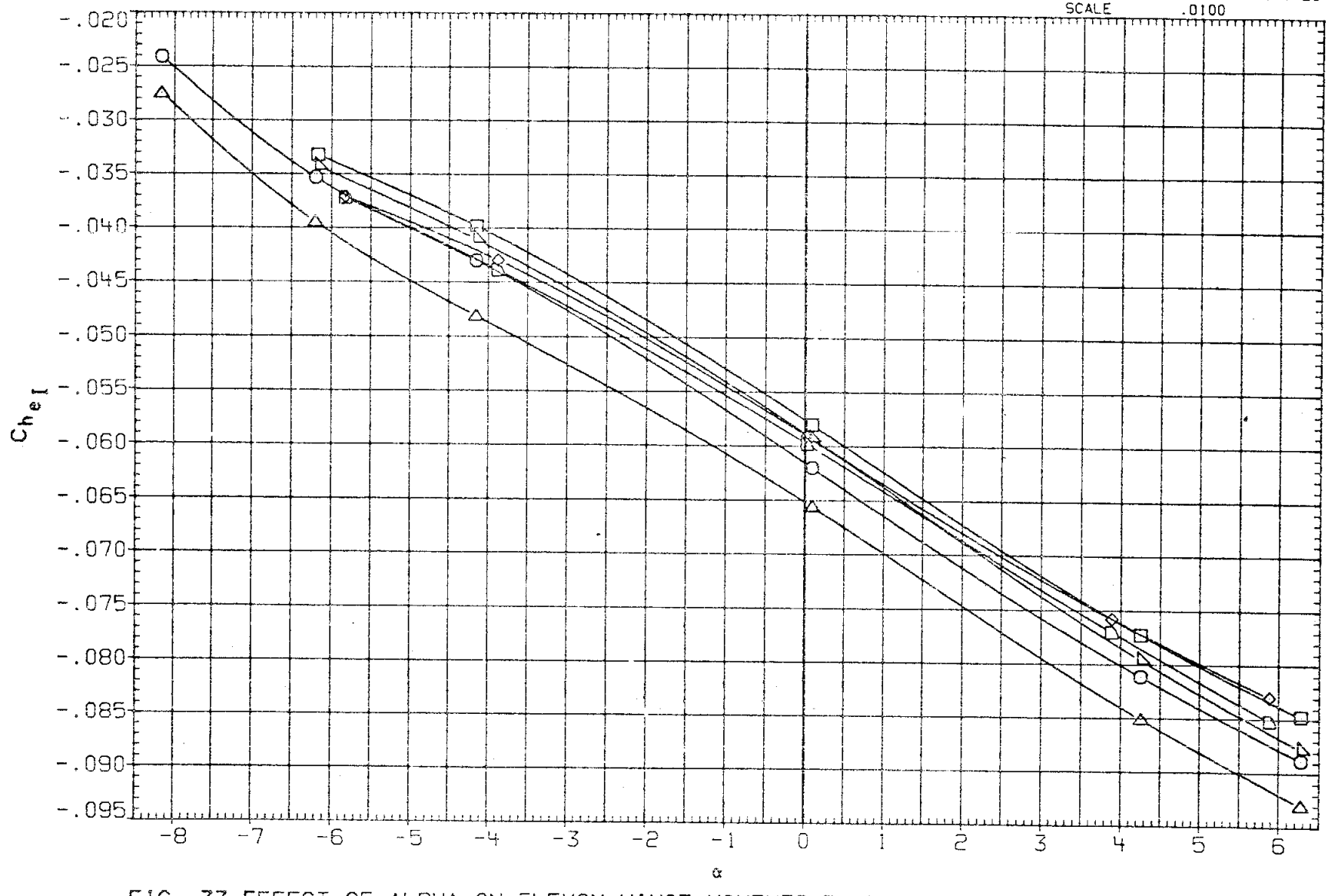

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(A) BETA = -4.27

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D044	◁	IA139 AMES 246-1-97	OTS	POWER ON	
R3D046	▷	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
12.000	-2.000	1.800	.000	.000
12.000	-5.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

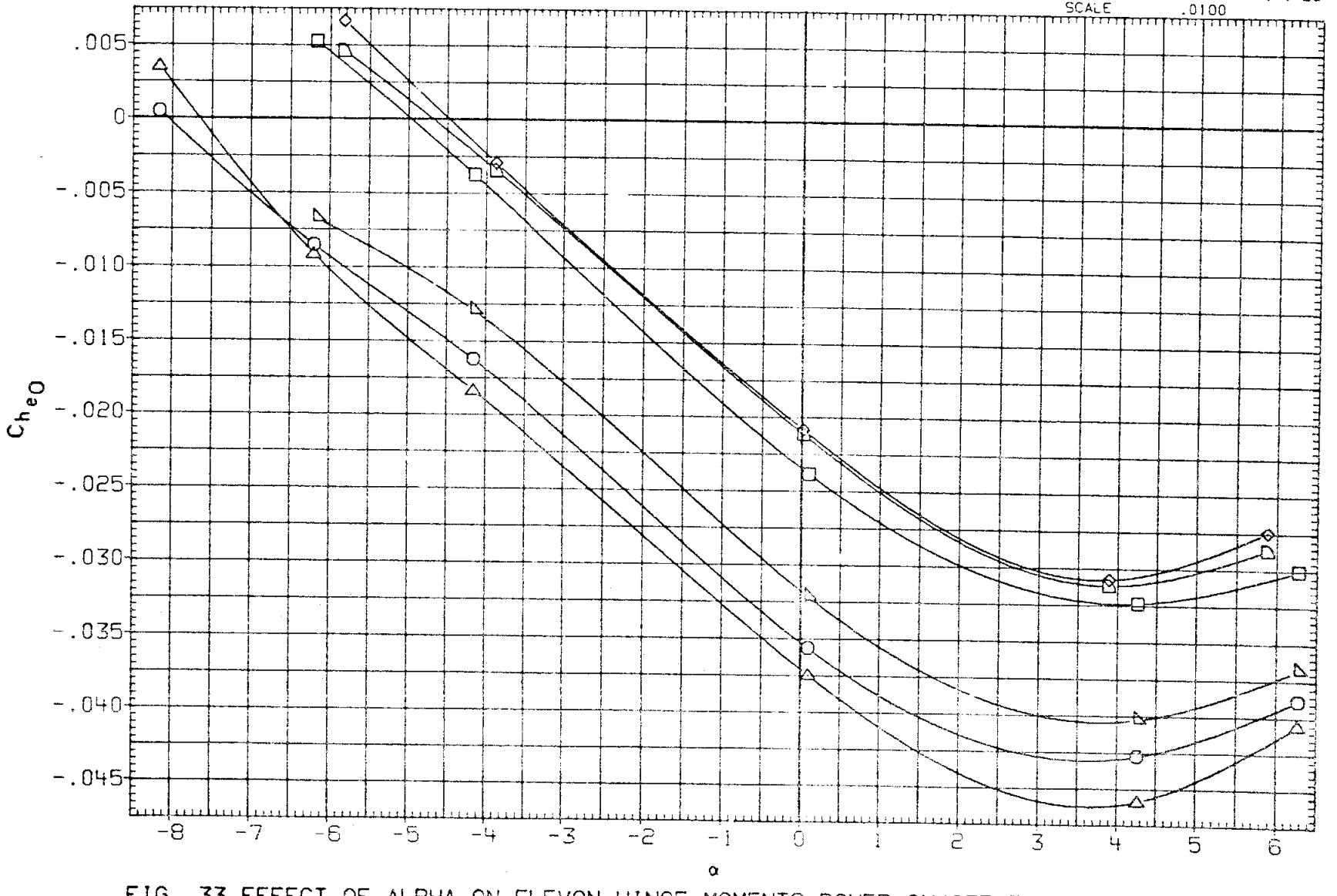

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-1B=12, MACH=1.8

(A) BETA = -4.27

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D044	▷	IA138 AMES 246-1-97	OTS	POWER ON
R3D046	⬠	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.800	.000	.000
12.000	-5.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

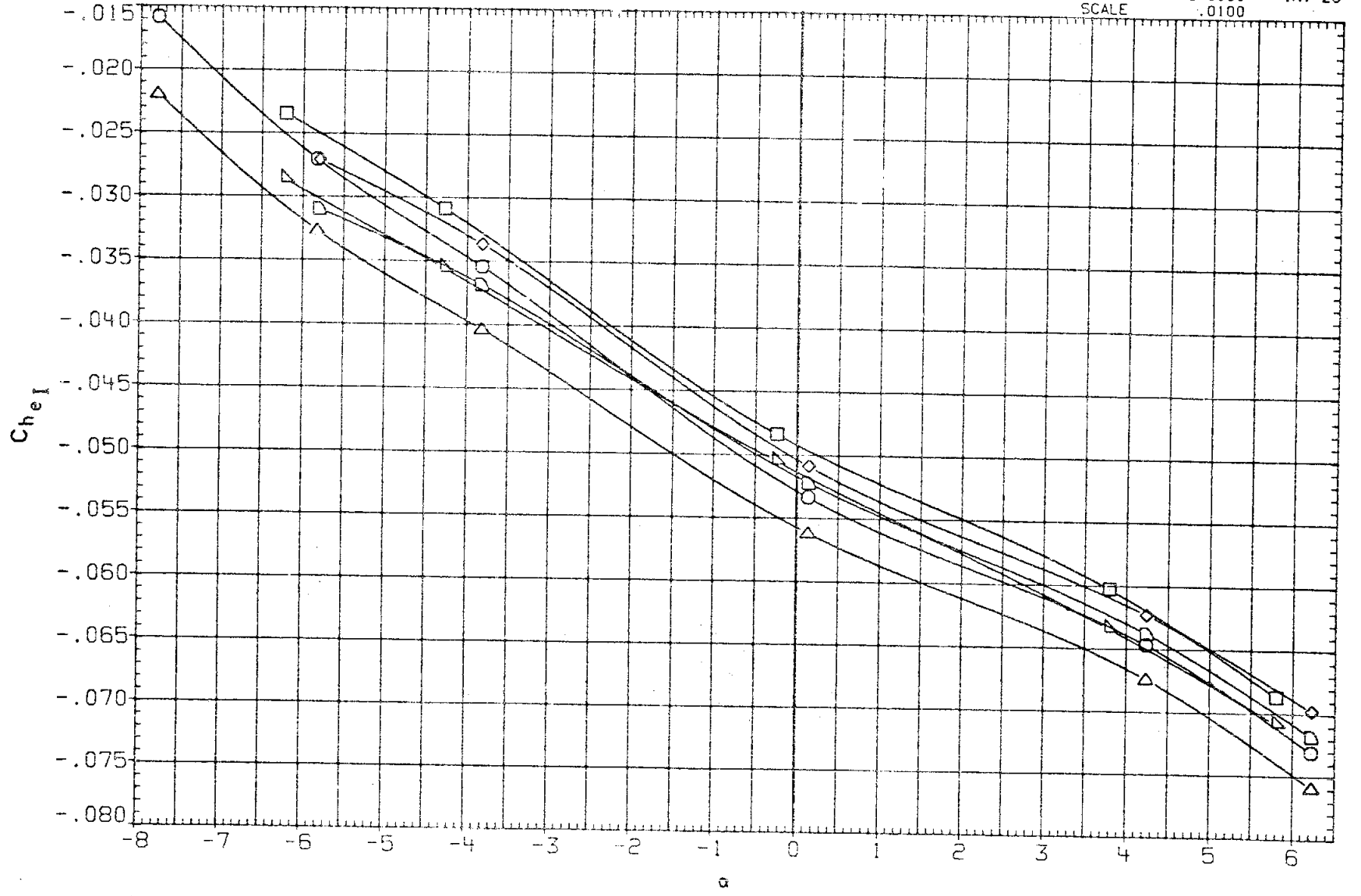

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(B) BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D044	◺	IA138 AMES 246-1-97	OTS	POWER ON	
R3D046	◺	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.800	.000	.000
12.000	-5.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

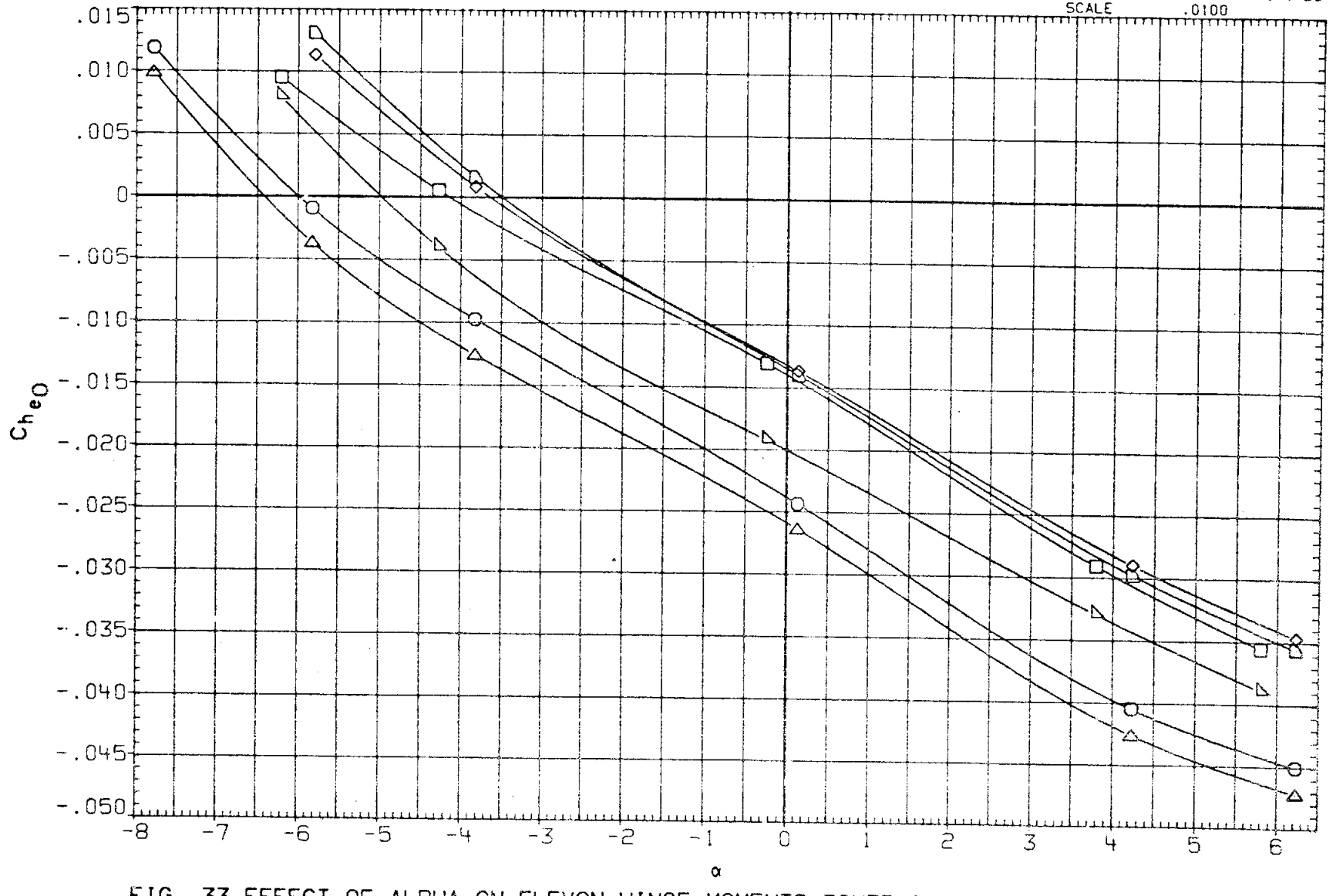

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(B)BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-2.000	1.800	.000	.000
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-5.000	1.800	.000	.000
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF	12.000	-7.000	1.800	.000	.000
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-2.000	1.800	274.808	475.914
R3D044	▷	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-5.000	1.800	274.742	477.842
R3D046	▱	IA138 AMES 246-1-97	OTS	POWER ON	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

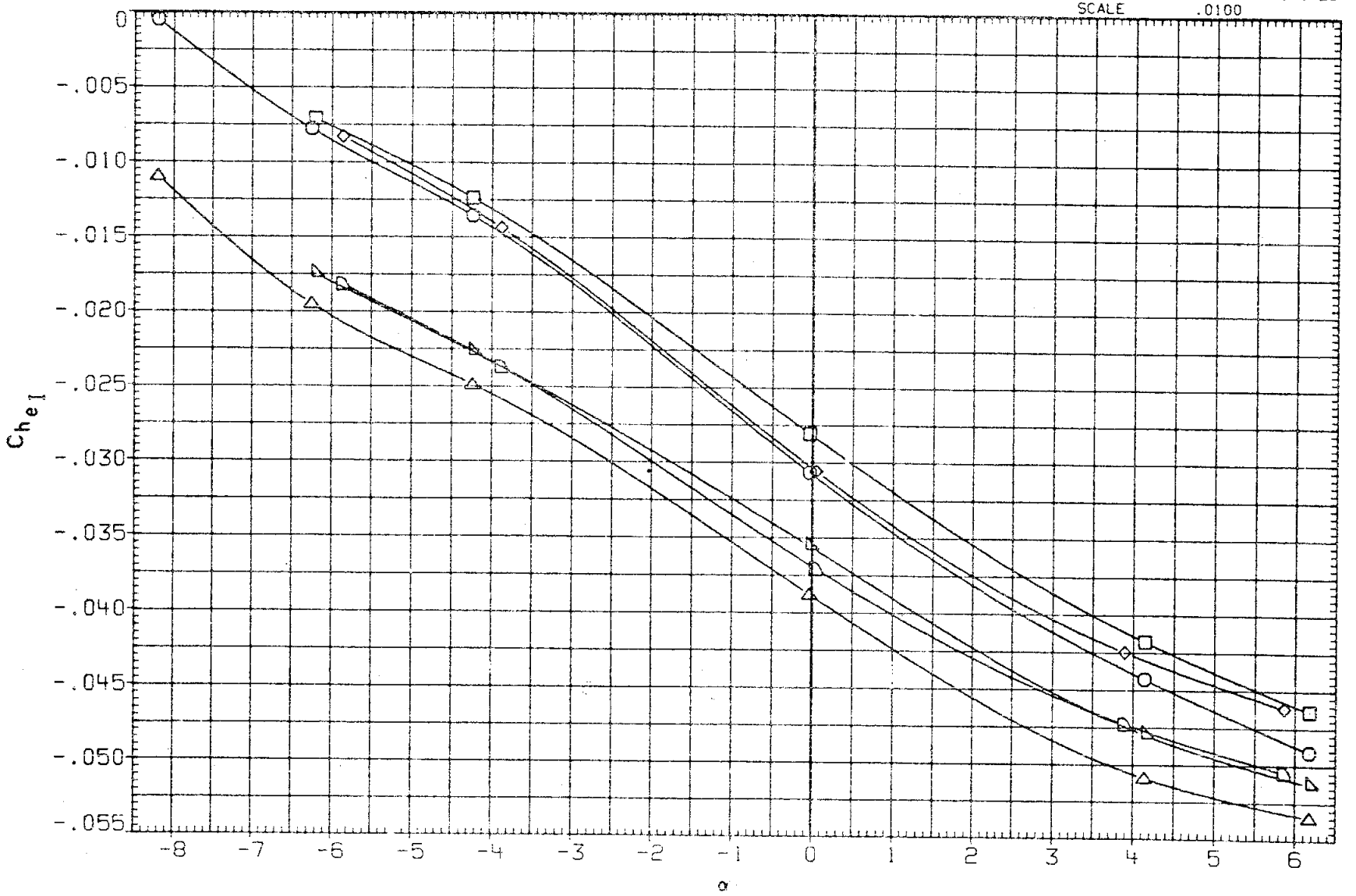

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=12, MACH=1.8

(C)BETA = 3.81

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D013	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D014	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D016	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D043	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D044	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D046	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
12.000	-2.000	1.800	.000	.000
12.000	-5.000	1.800	.000	.000
12.000	-7.000	1.800	.000	.000
12.000	-2.000	1.800	274.808	475.914
12.000	-5.000	1.800	274.742	477.942
12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

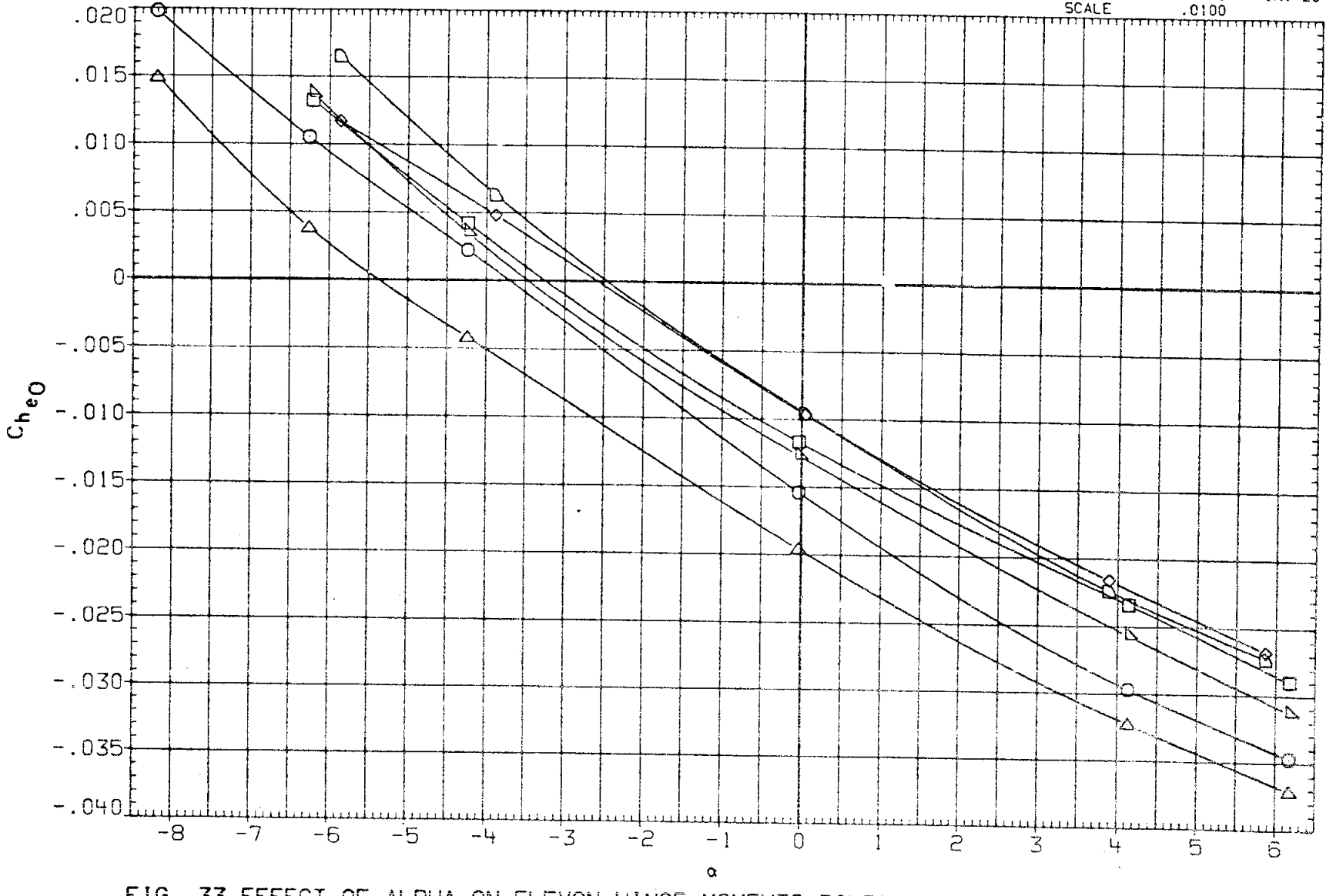

FIG. 33 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS.POWER ON/OFF,ELV-IB=12,MACH=1.8

(C)BETA = 3.81

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON	
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.378	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

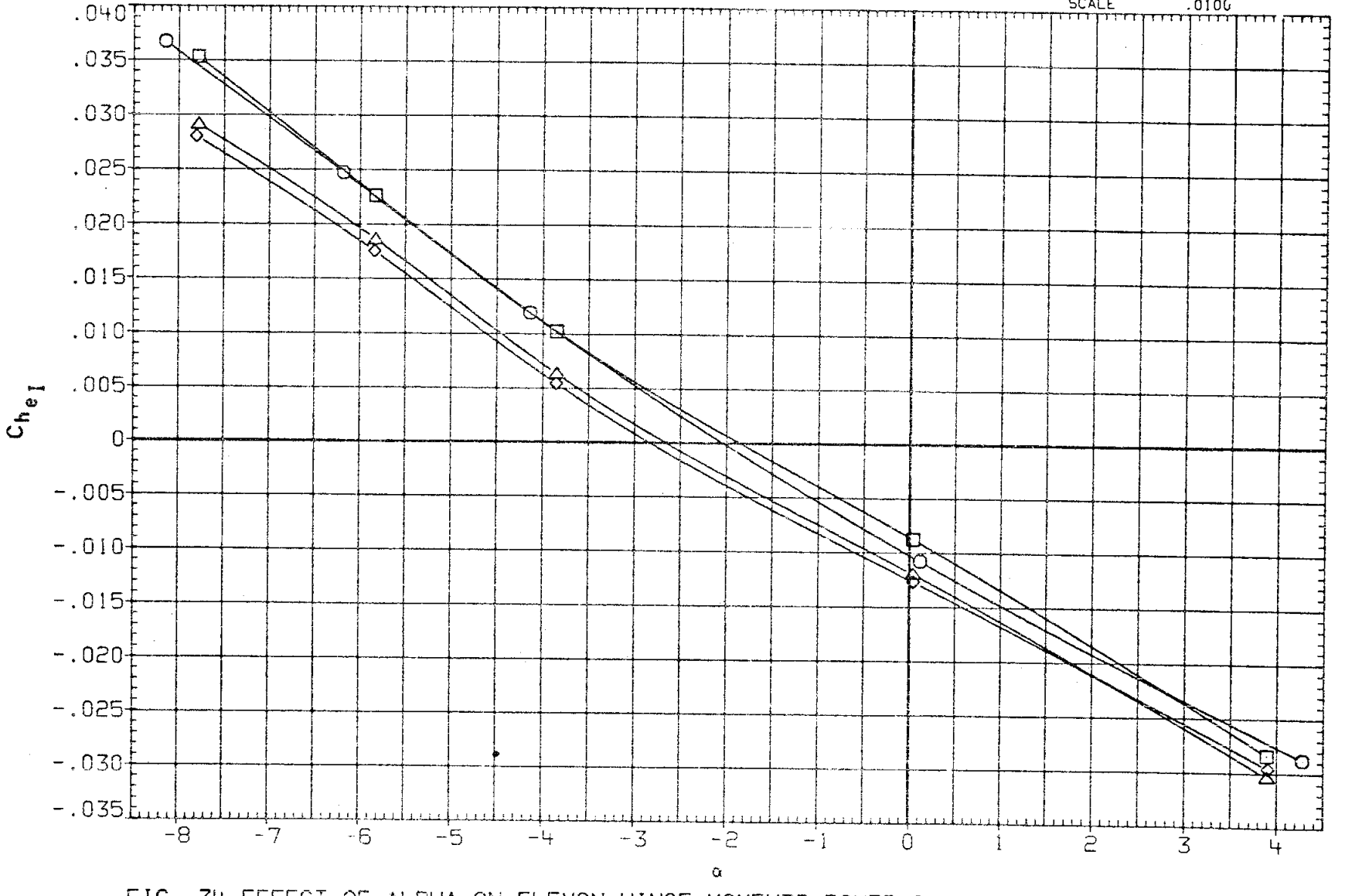

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(A)BETA = -4.31

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6890	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

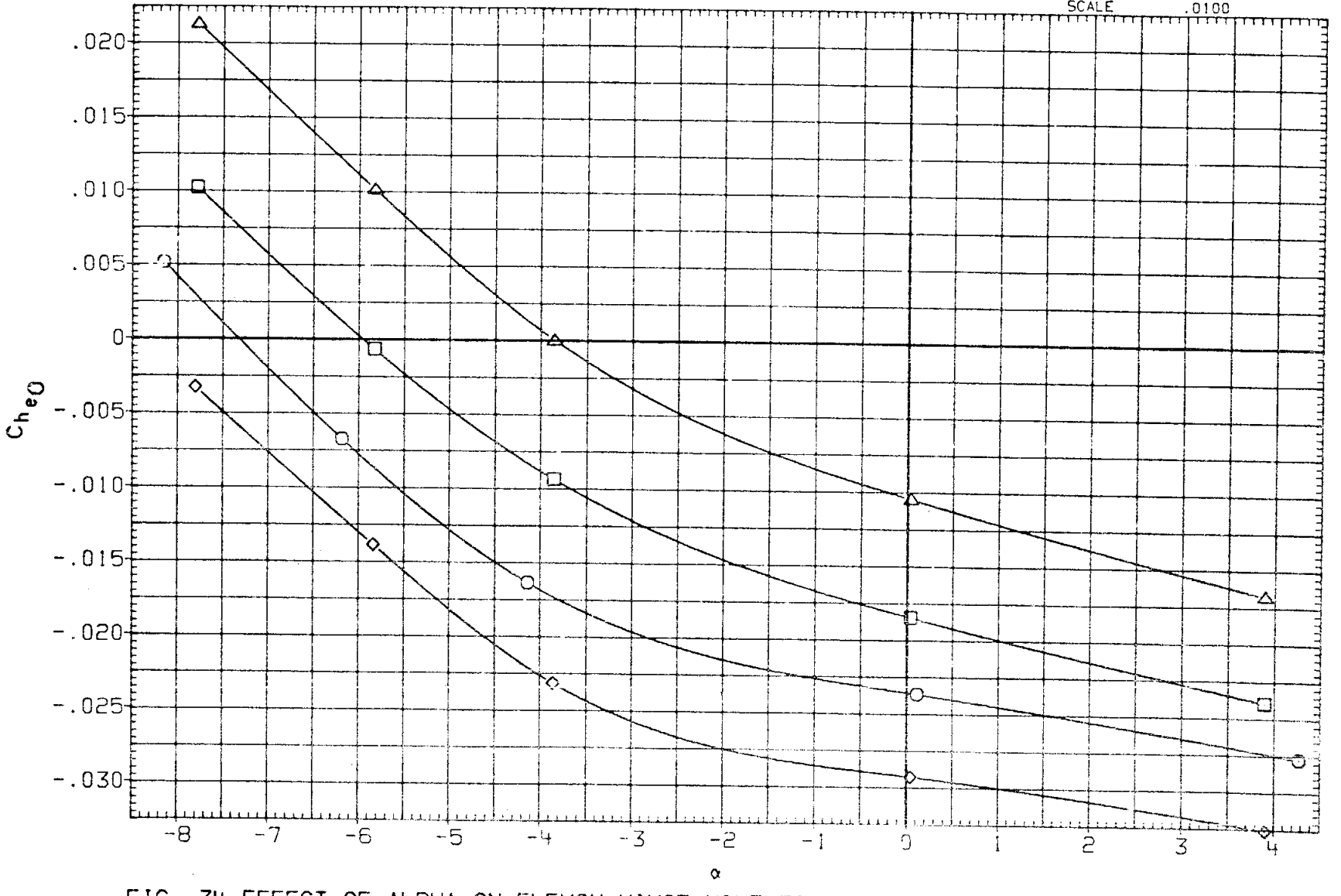

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(A)BETA = -4.31

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-2.000	1.550	.000	.000
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-7.000	1.550	.000	.000
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-2.000	1.550	196.379	372.181
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

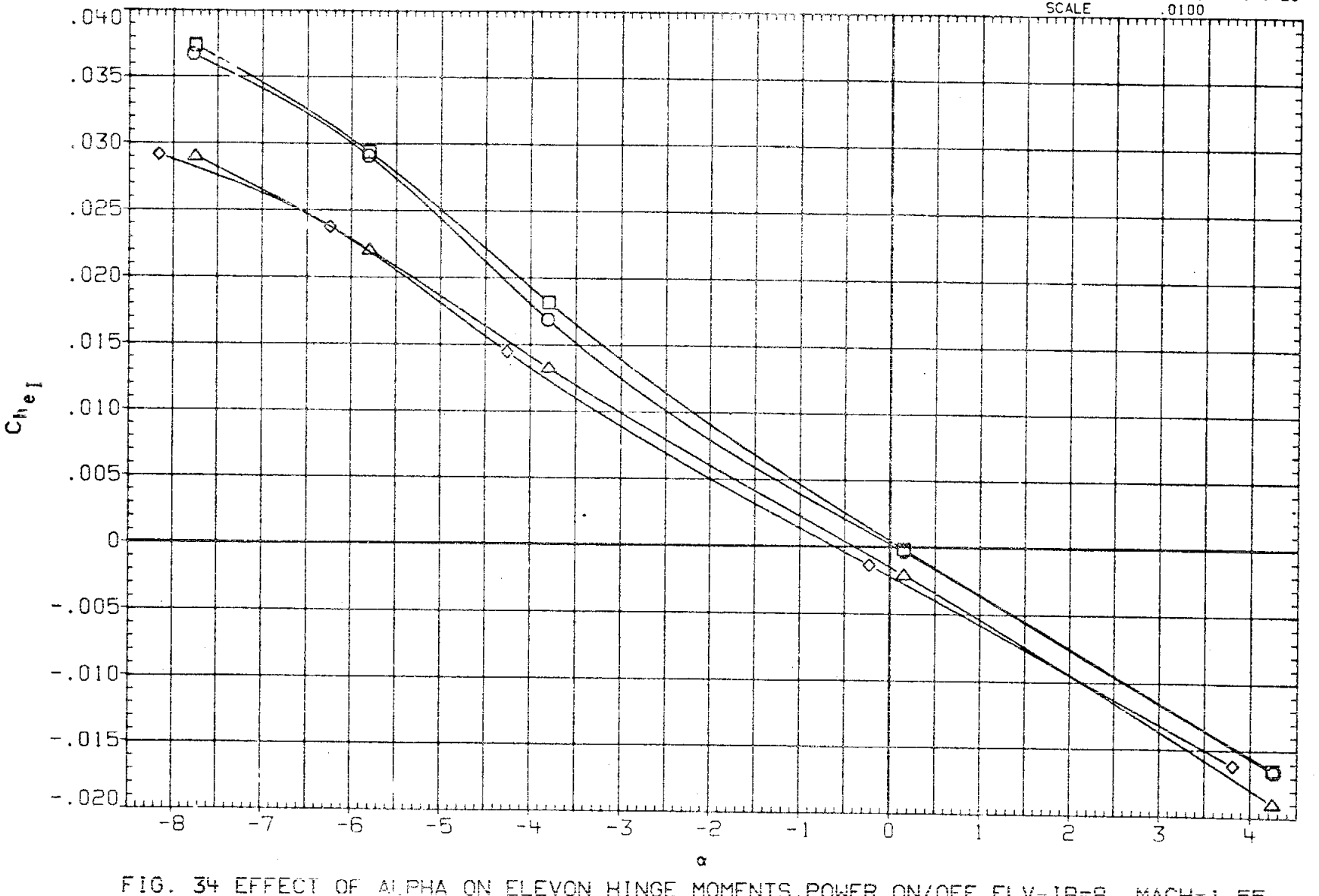

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(B)BETA = -.24

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

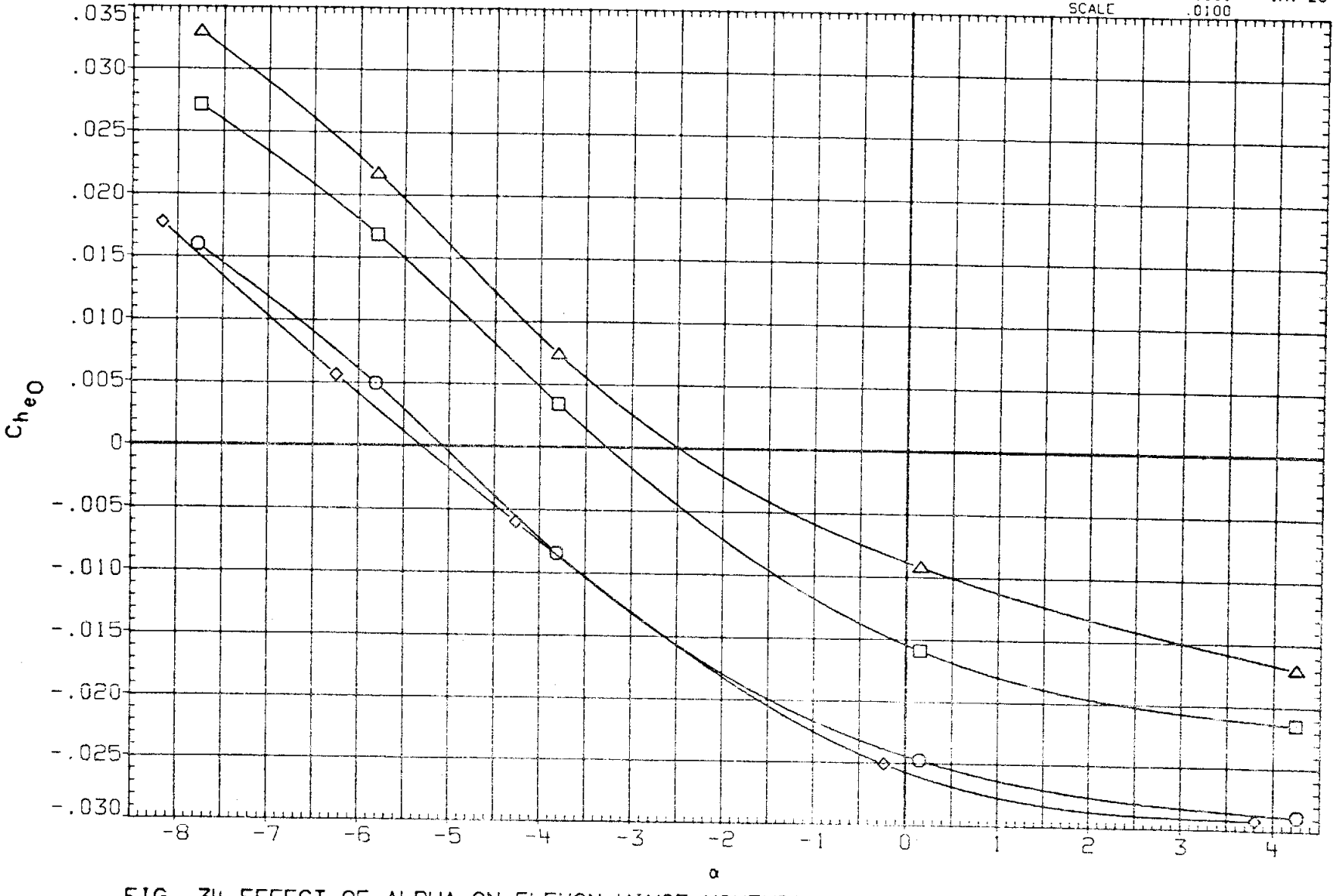

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(B)BETA = -.24

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-1B	ELV-OB	MACH	SRBPR	SSMEPR
8.000	-2.000	1.550	.000	.000
8.000	-7.000	1.550	.000	.000
8.000	-2.000	1.550	196.379	372.181
8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

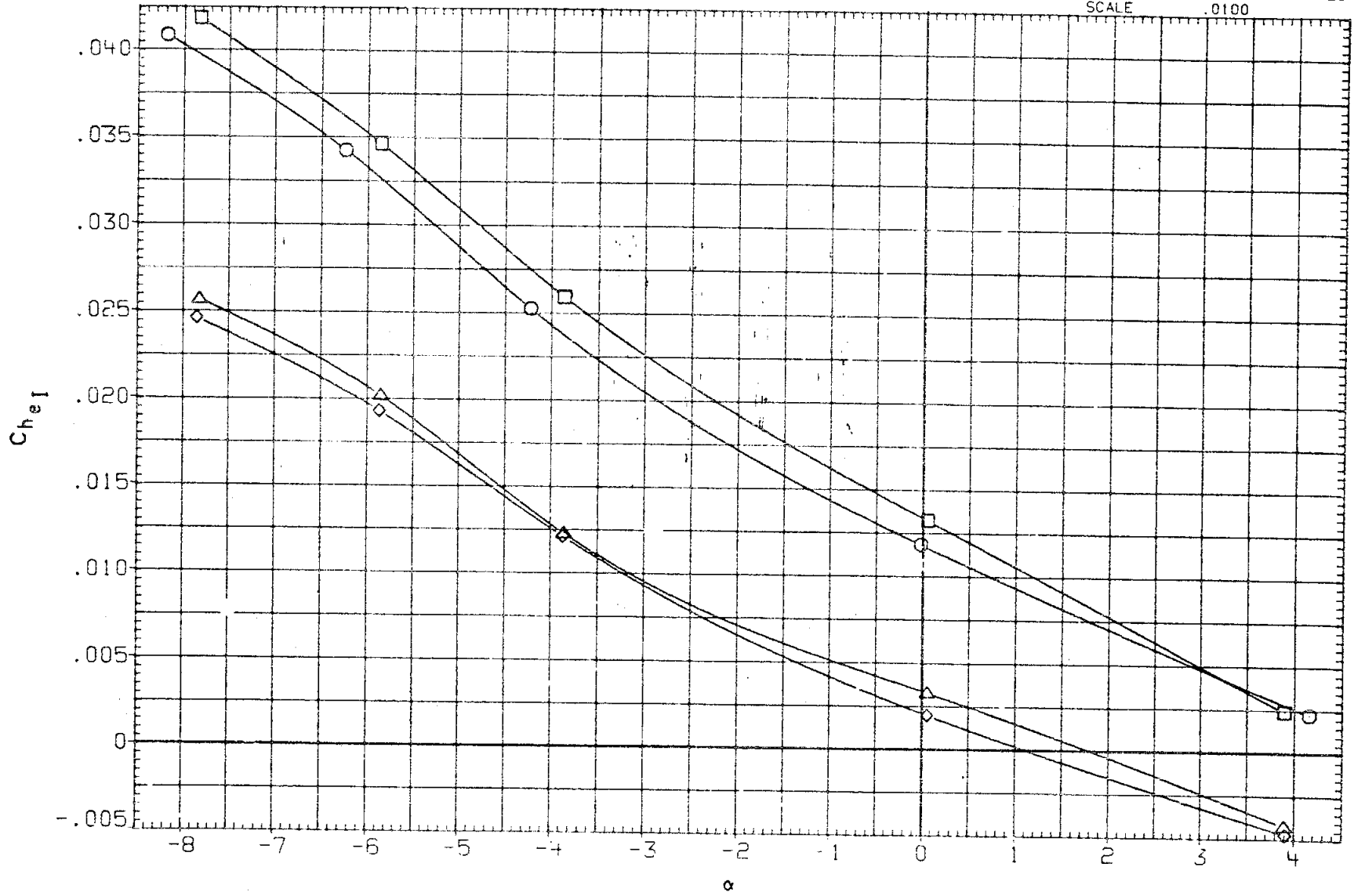

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-1B=8, MACH=1.55

(C)BETA = 3.72

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D017	○	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-2.000	1.550	.000	.000
R3D018	□	IA138 AMES 246-1-97	OTS	POWER OFF	8.000	-7.000	1.550	.000	.000
R3D047	◇	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-2.000	1.550	196.379	372.181
R3D048	△	IA138 AMES 246-1-97	OTS	POWER ON	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

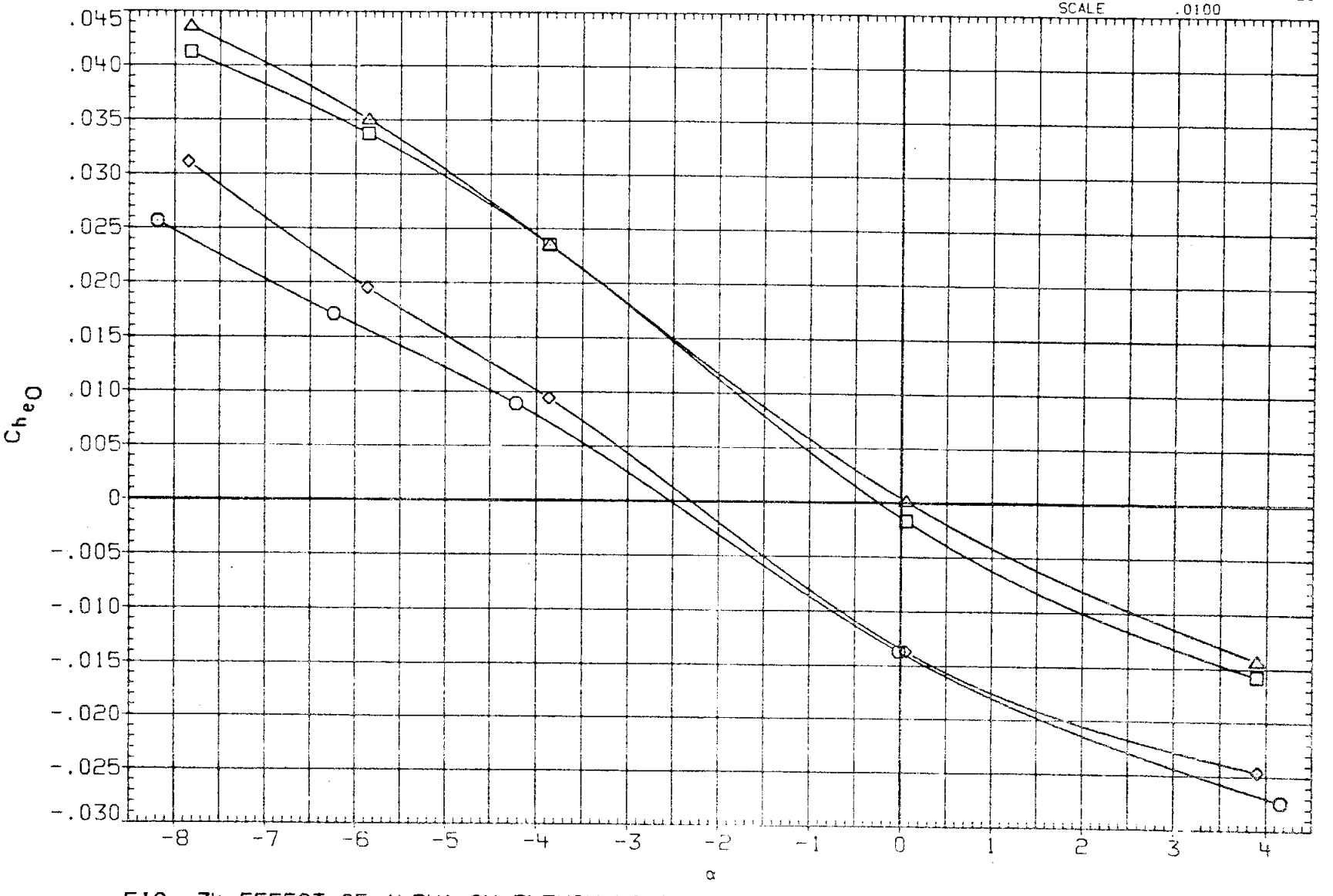

FIG. 34 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=8, MACH=1.55

(C)BETA = 3.72

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
R3D021	○	IA138 AMES 246-1-97 OTS POWER OFF	4.000	-5.000	1.800	.000	.000
R3D051	□	IA138 AMES 246-1-97 OTS POWER ON	4.000	-5.000	1.800	273.284	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

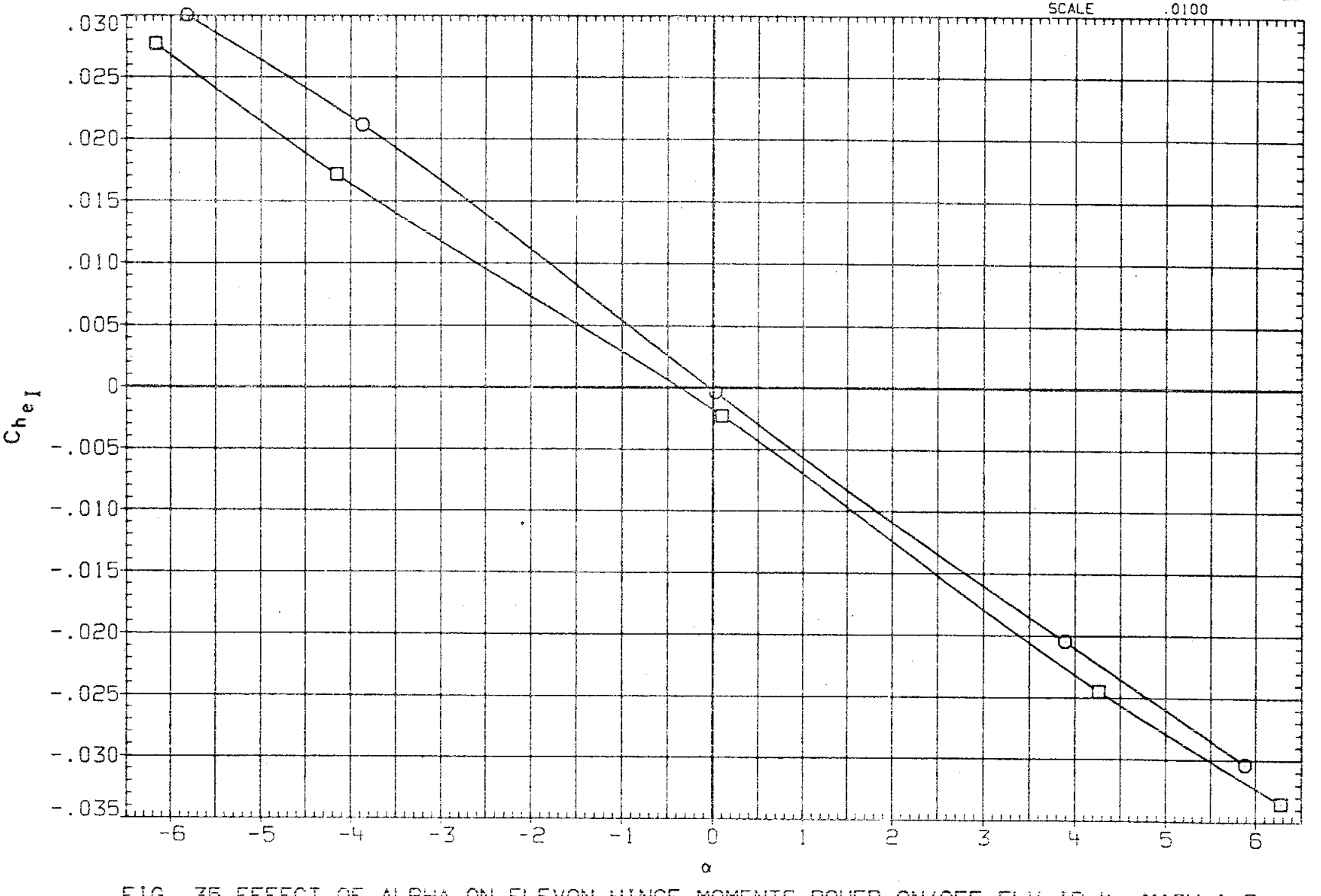

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(A) BETA = -4.08

DATA SET	SYMBOL	CONFIGURATION			
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

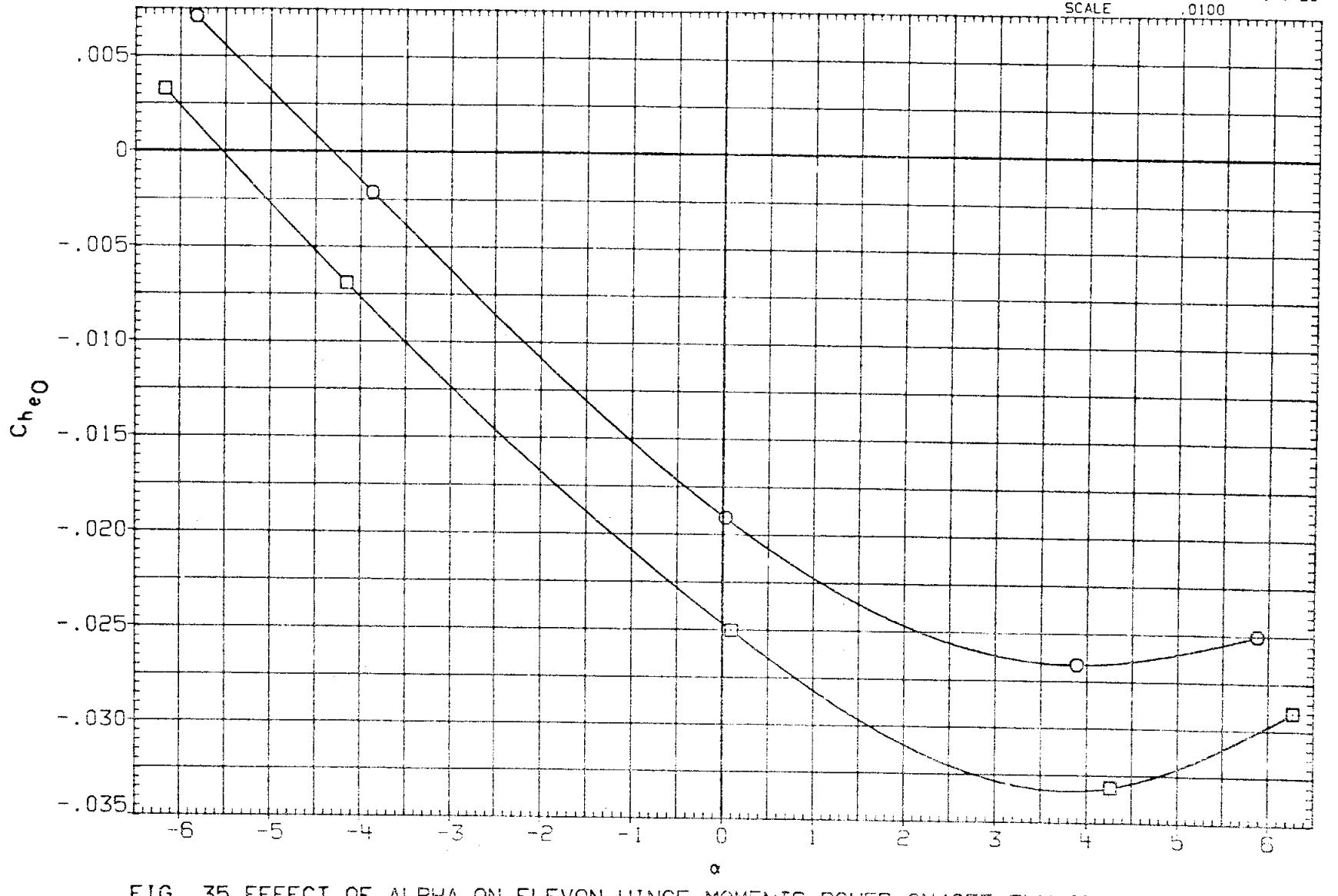

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(A) BETA = -4.08

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D021	○	IA138 AMES 2%6-1-97	OTS	POWER OFF
R3D051	□	IA138 AMES 2%6-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION

SREF	2600.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

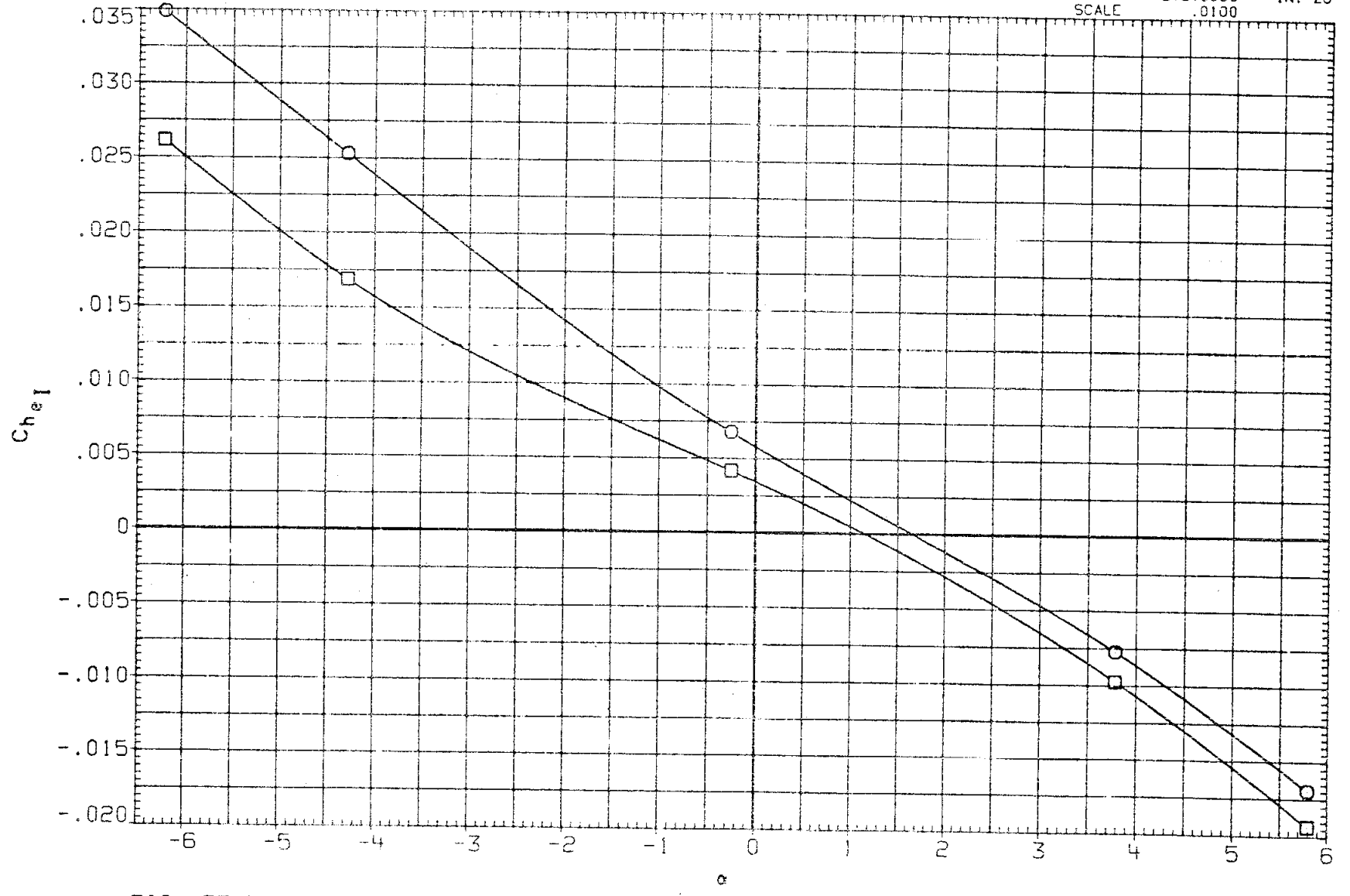

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(B) BETA = -.21

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R30021	○	IA138 AMES 246-1-97	OTS	POWER OFF
R30051	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

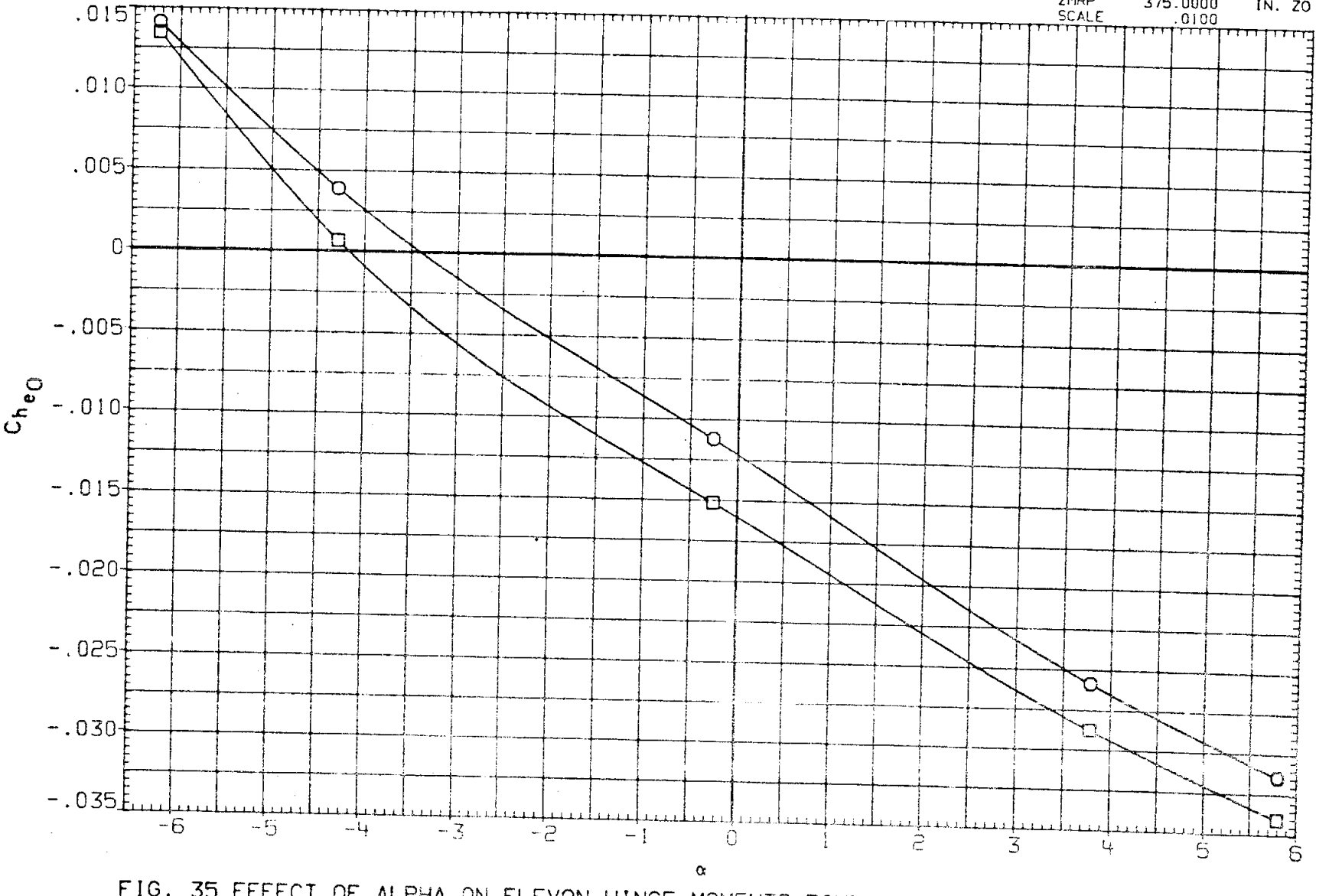

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(B)BETA = -.21

DATE 17 OCT 73

DATA SET	SYMBOL	CONFIGURATION
R3D021	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D051	□	IA138 AMES 240-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

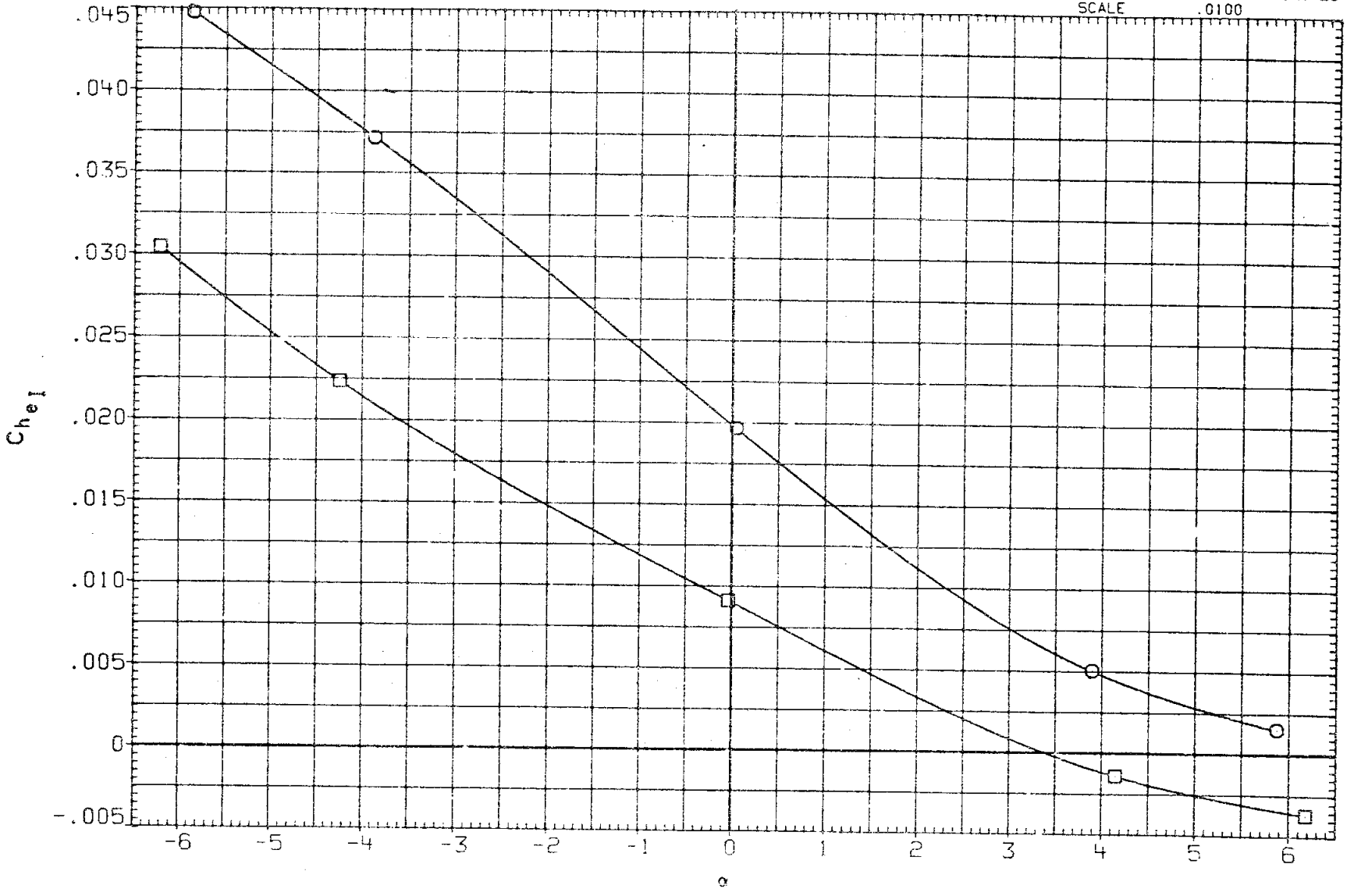

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4., MACH=1.8

(C)BETA = 3.63

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D021	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D051	□	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-5.000	1.800	.000	.000
4.000	-5.000	1.800	273.294	477.177

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

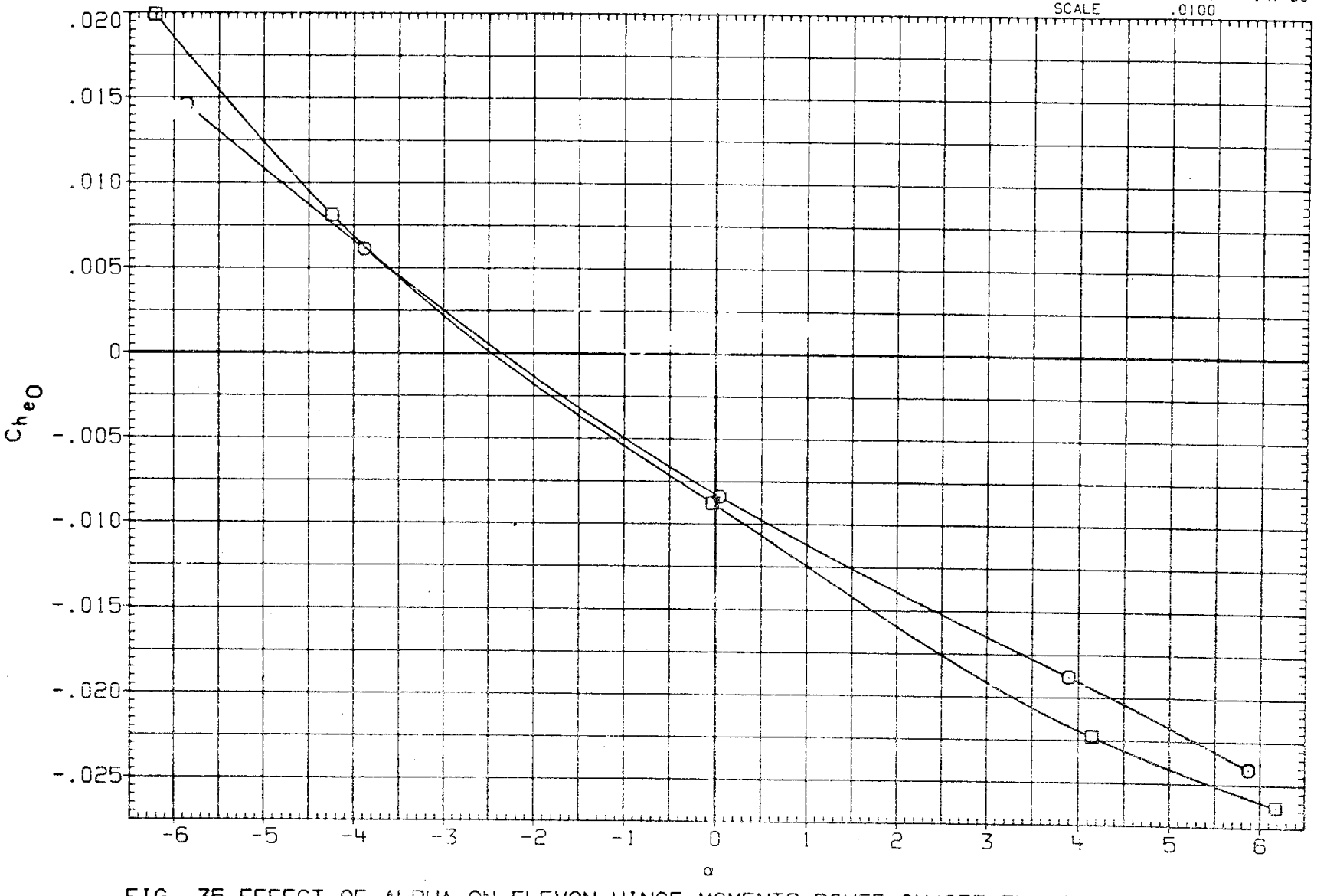

FIG. 35 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=1.8

(C)BETA = 3.63

DATE 17 OCT 78

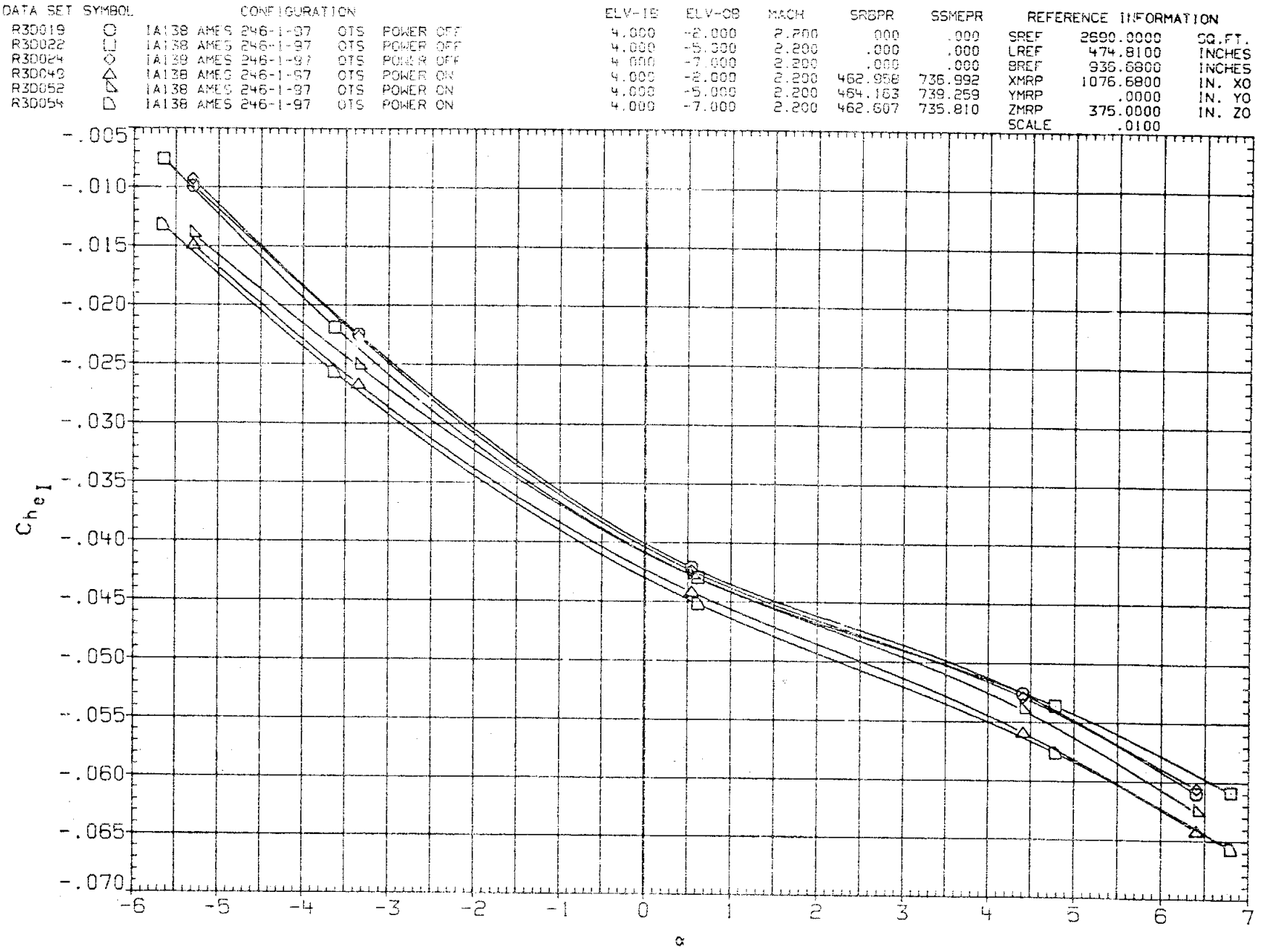

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(A) BETA = -4.07

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-2.000	2.200	.000	.000	SREF	2690.0000	SQ.FT.
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.200	.000	.000	LREF	474.8100	INCHES
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-7.000	2.200	.000	.000	BREF	936.6800	INCHES
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.200	462.958	736.992	XMRP	1076.6800	IN. XO
R3D052	◁	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.200	464.163	739.259	YMRP	.0000	IN. YO
R3D054	▷	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-7.000	2.200	462.607	735.810	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

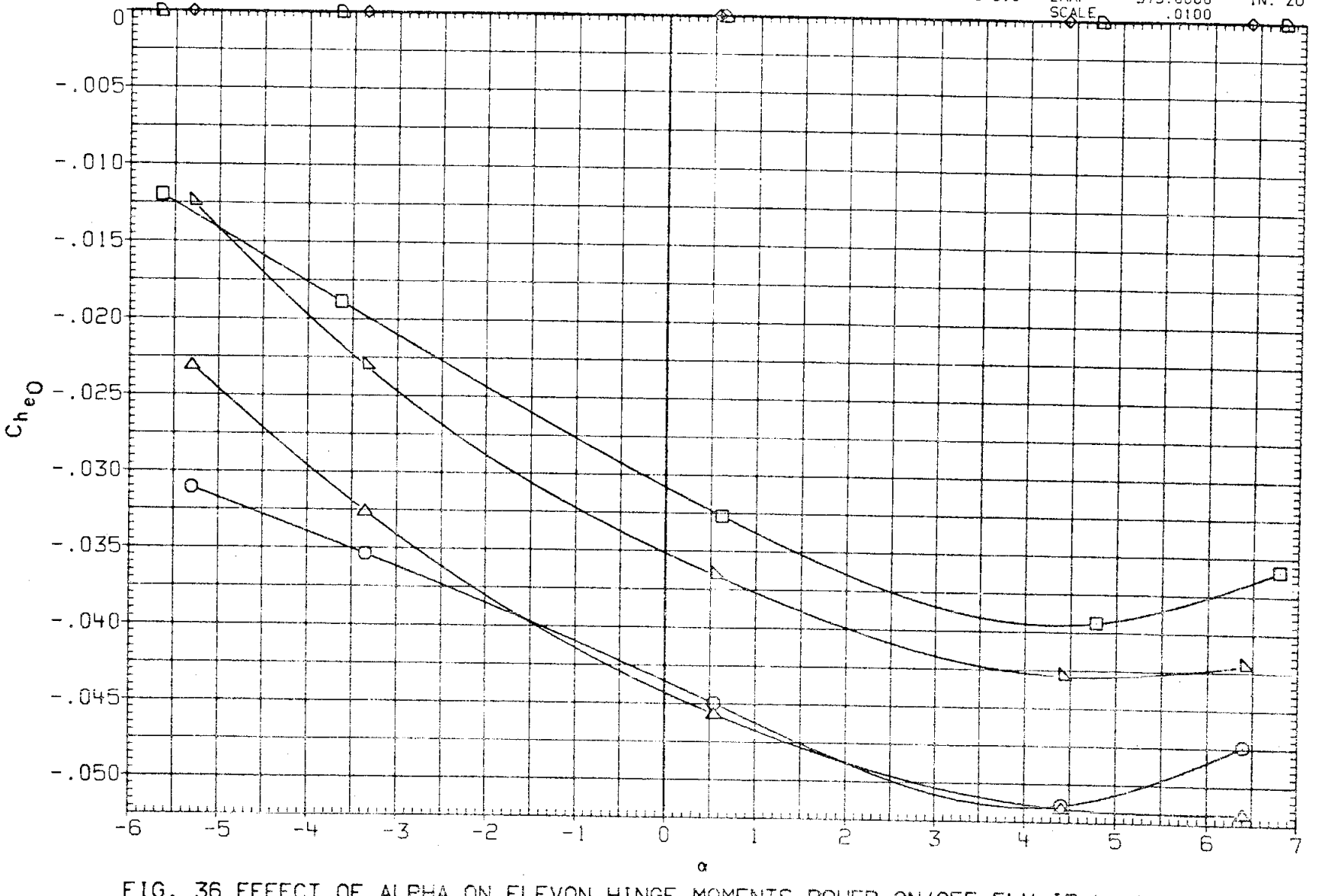

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(A) BETA = -4.07

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-2.000	2.200	.000	.000
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.200	.000	.000
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-7.000	2.200	.000	.000
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.200	462.958	736.992
R3D052	▽	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.200	464.163	739.259
R3D054	D	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

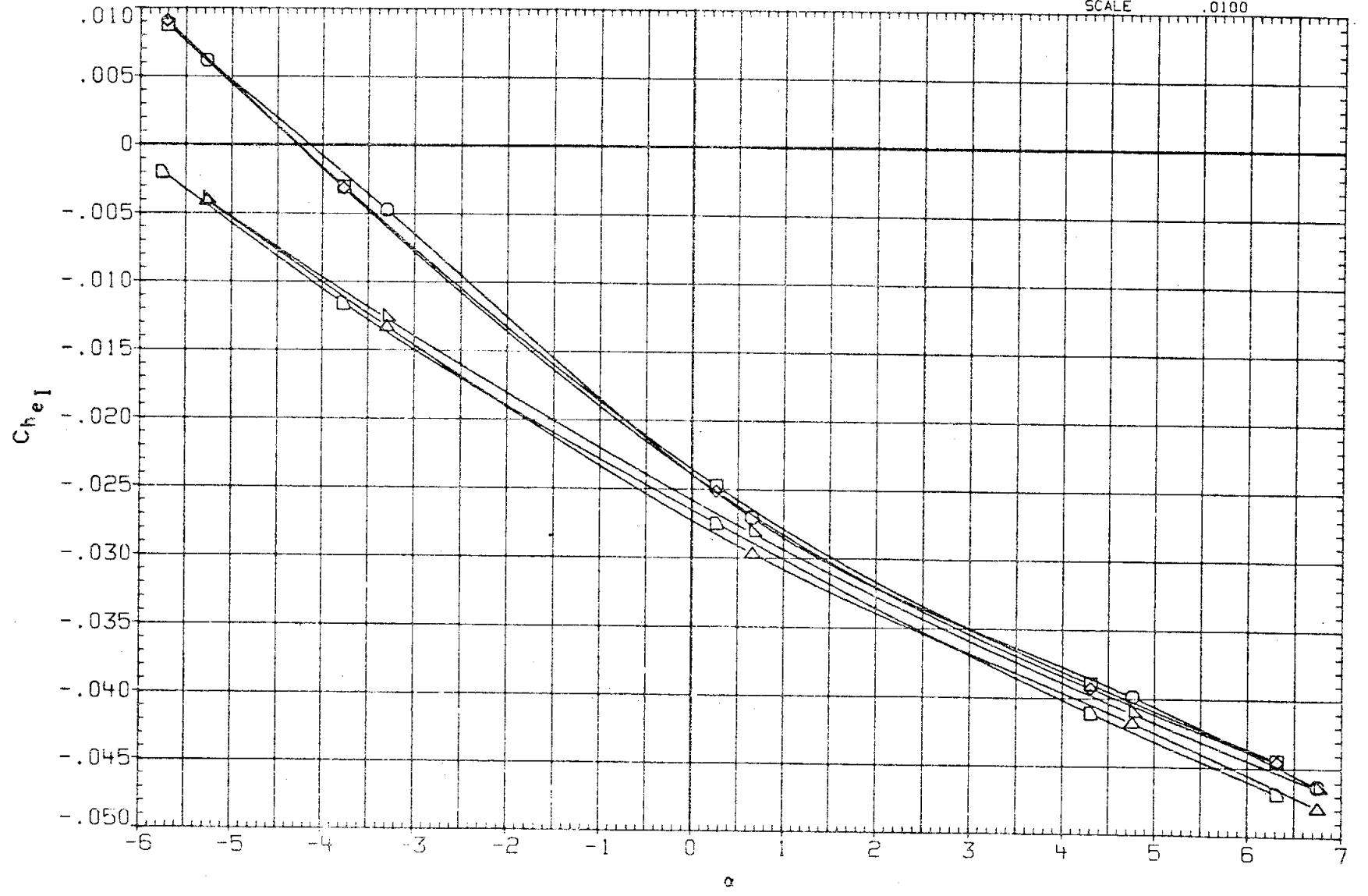

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R30019	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-2.000	2.200	.000	.000	SREF	2690.0000	SQ.FT.
R30022	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.200	.000	.000	LREF	474.8100	INCHES
R30024	◇	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-7.000	2.200	.000	.000	BREF	936.6800	INCHES
R30049	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.200	462.958	736.992	XMRP	1076.6800	IN. XO
R30052	◁	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.200	464.163	739.259	YMRP	.0000	IN. YO
R30054	▷	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-7.000	2.200	462.607	735.810	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

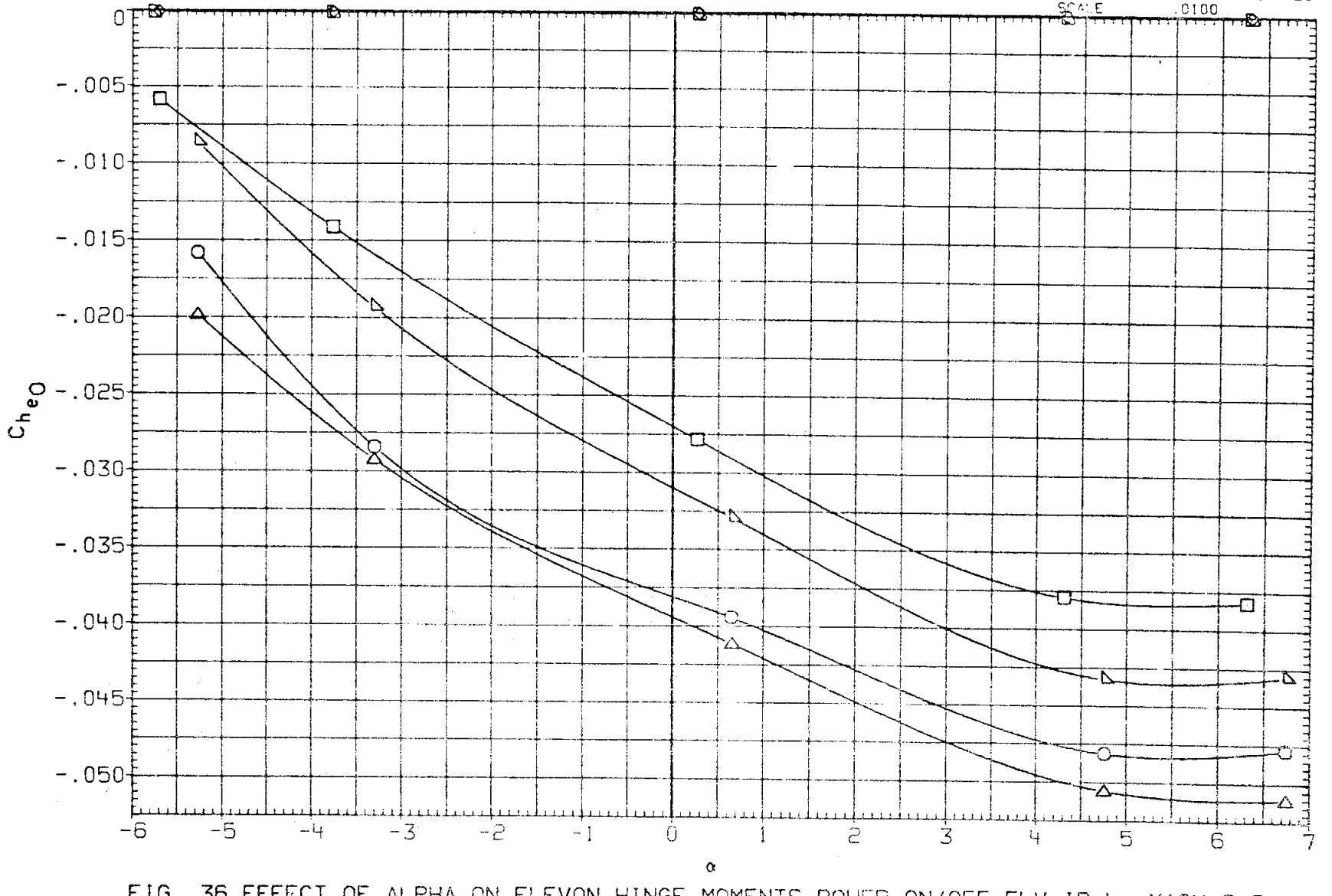

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRSPR	SSMEPR
R3D019	○	IA138 AMES 248-1-97	OTS	POWER OFF	4.000	-2.000	2.200	.000	.000
R3D022	□	IA138 AMES 248-1-97	OTS	POWER OFF	4.000	-5.000	2.200	.000	.000
R3D024	◇	IA138 AMES 248-1-97	OTS	POWER OFF	4.000	-7.000	2.200	.000	.000
R3D049	△	IA138 AMES 248-1-97	OTS	POWER ON	4.000	-2.000	2.200	462.958	736.992
R3D052	△	IA138 AMES 248-1-97	OTS	POWER ON	4.000	-5.000	2.200	464.163	739.259
R3D054	▷	IA138 AMES 248-1-97	OTS	POWER ON	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

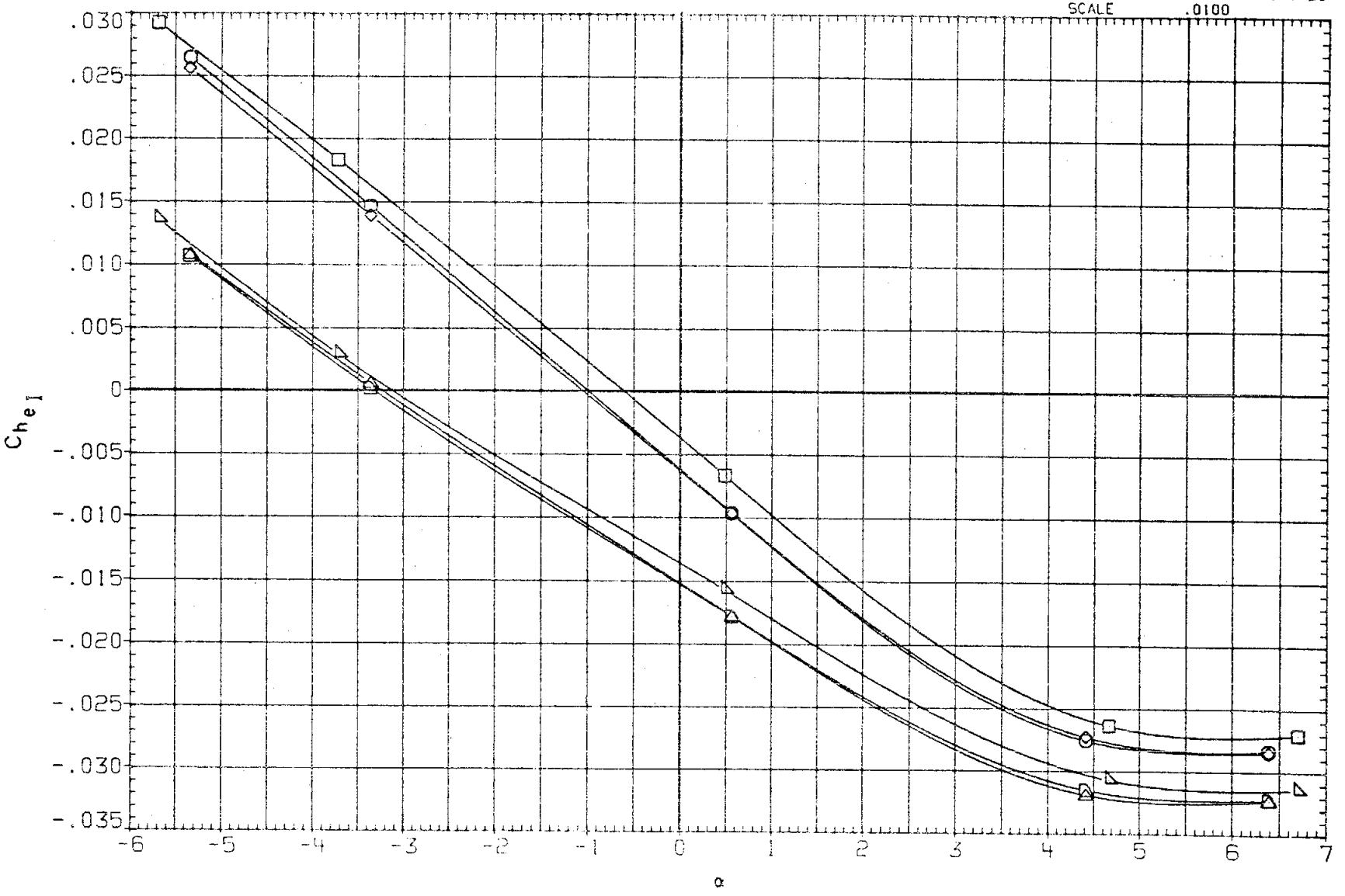

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(C)BETA = 3.70 DATE 17 OCT 78 PAGE 197

DATA SET	SYMBOL	CONFIGURATION		
R3D019	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D024	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D049	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D052	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D054	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.200	.000	.000
4.000	-5.000	2.200	.000	.000
4.000	-7.000	2.200	.000	.000
4.000	-2.000	2.200	462.958	736.992
4.000	-5.000	2.200	464.163	739.259
4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

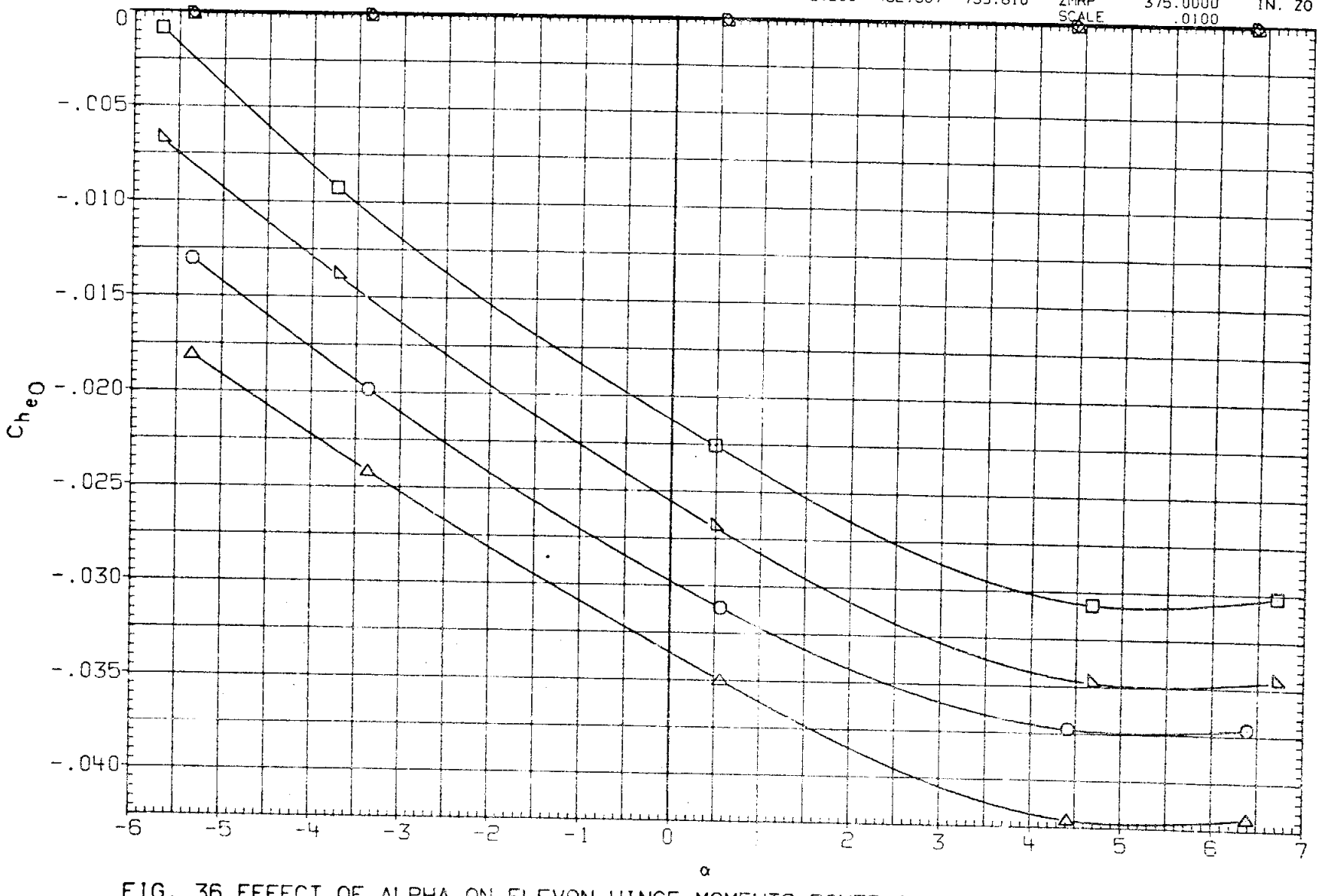

FIG. 36 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.2

(C)BETA = 3.70

DATE 17 OCT 78

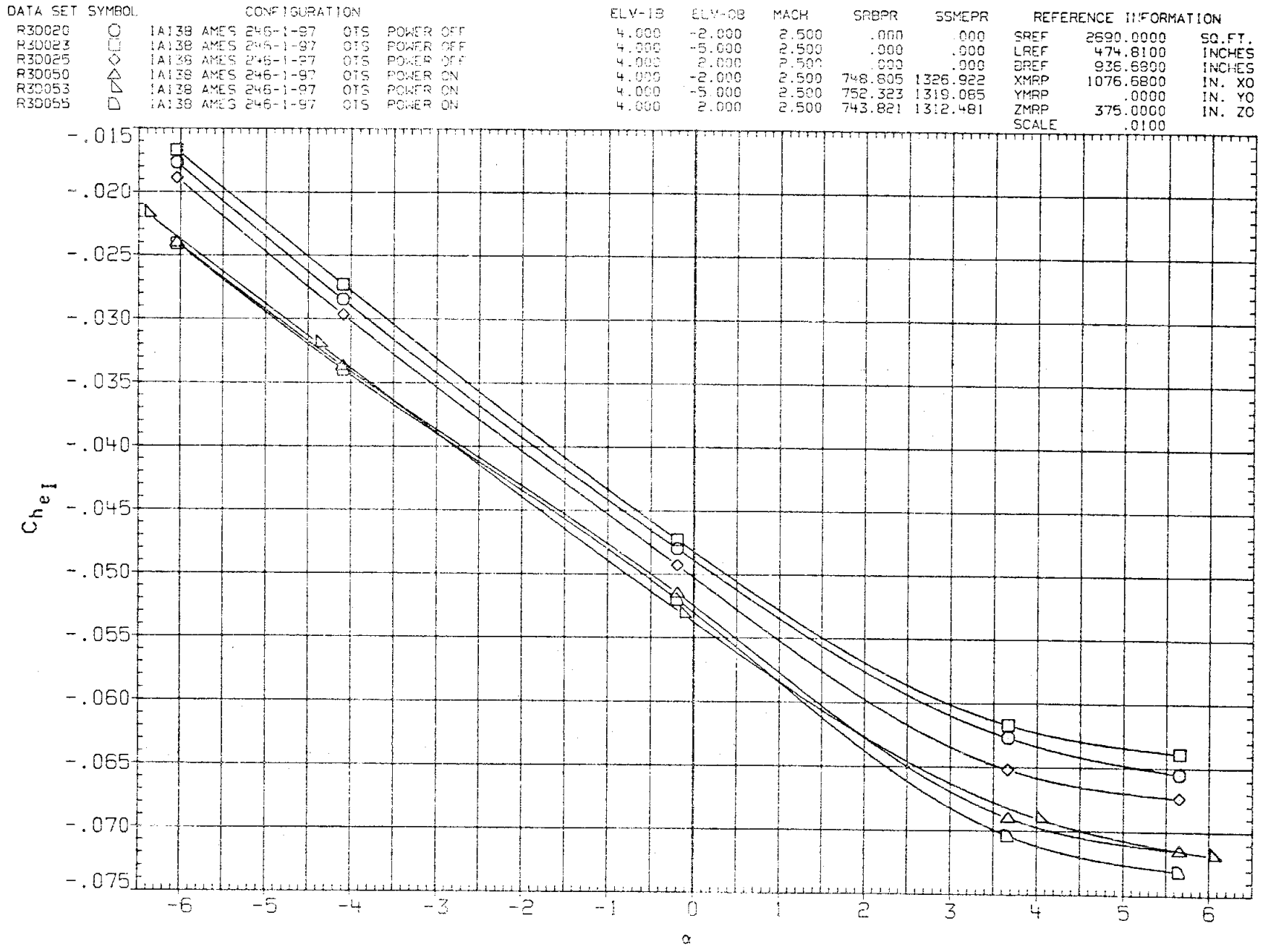

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-2.000	2.500	.000	.000	SREF	2690.0000	SQ.FT.
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.500	748.805	1326.922	XMRP	1076.6800	IN. XO
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.500	752.323	1319.085	YMRP	.0000	IN. YO
R3D055	▷	IA138 AMES 246-1-97	OTS	POWER ON	4.000	2.000	2.500	743.821	1312.481	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

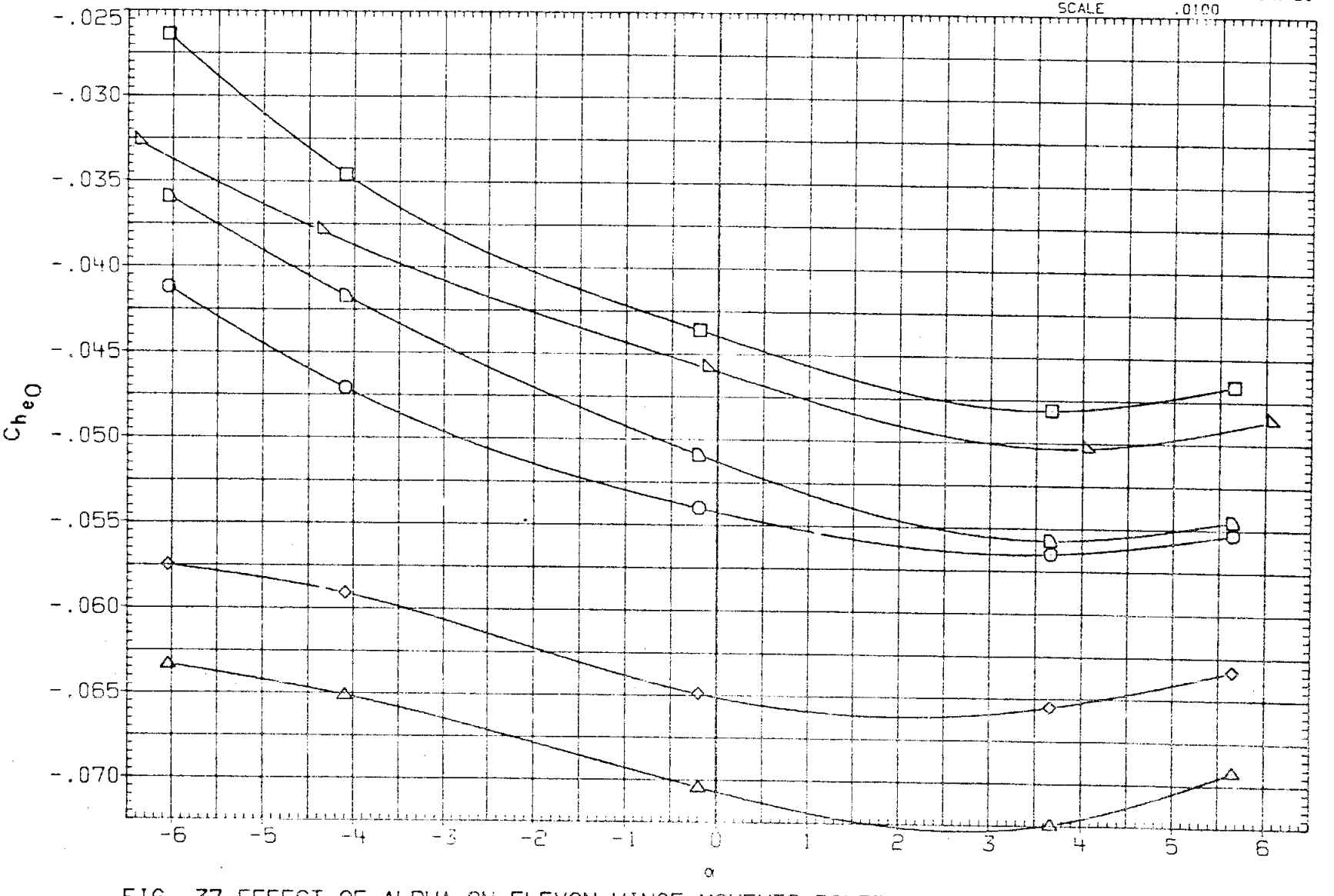

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR	REFERENCE INFORMATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	2.000	2.500	.000	.000	SREF	2690.0000	SQ.FT.
R3D022	□	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	-5.000	2.500	.000	.000	LREF	474.8100	INCHES
R3D026	◇	IA138 AMES 246-1-97	OTS	POWER OFF	4.000	2.000	2.500	.000	.000	BREF	936.6800	INCHES
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-2.000	2.500	748.805	1326.922	XMRP	1076.6800	IN. XO
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON	4.000	-5.000	2.500	752.323	1319.085	YMRP	.0000	IN. YO
R3D055	▷	IA138 AMES 246-1-97	OTS	POWER ON	4.000	2.000	2.500	743.821	1312.481	ZMRP	375.0000	IN. ZO
										SCALE	.0100	

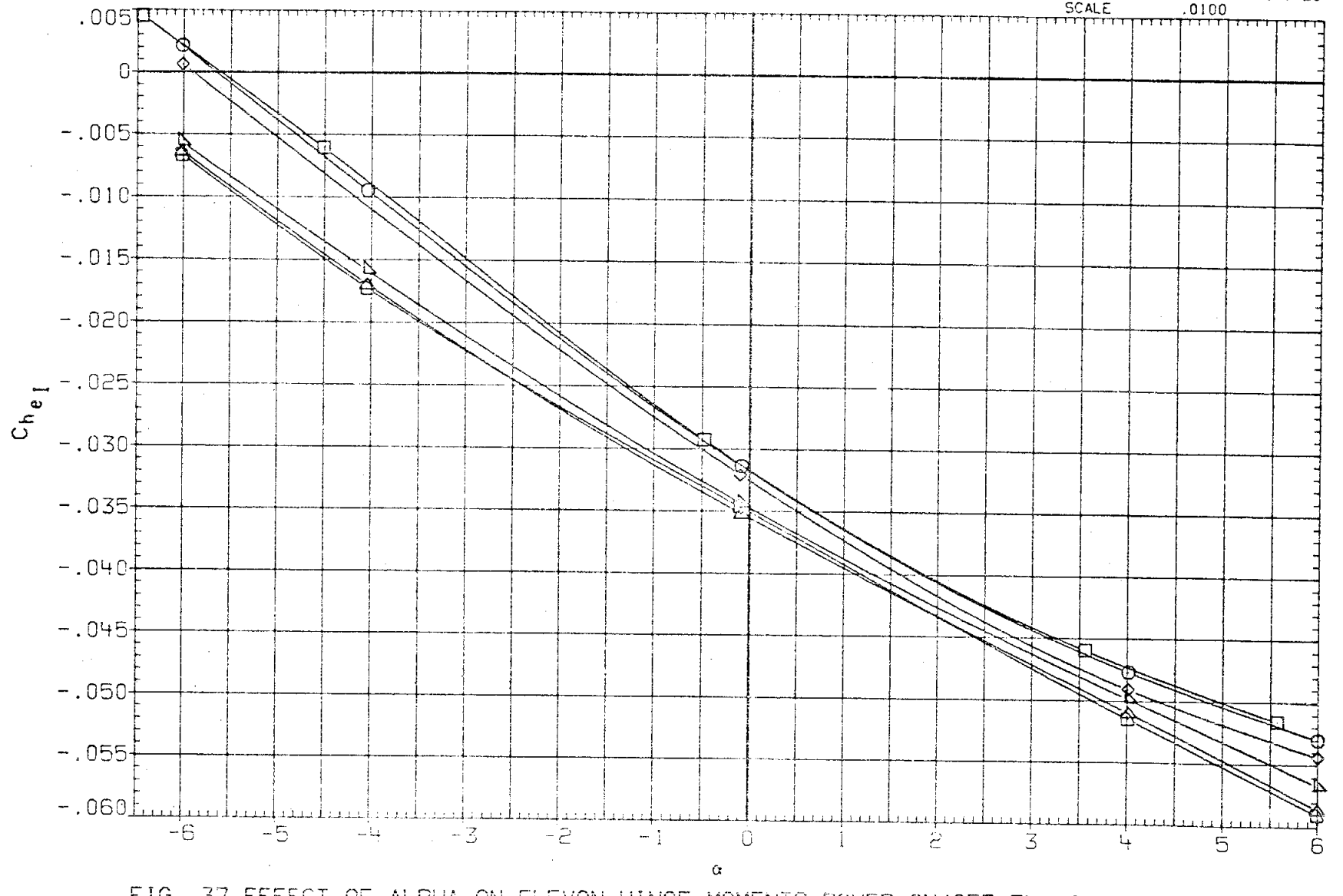

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(B) BETA = -.13

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON
R3D055	▷	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1726.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

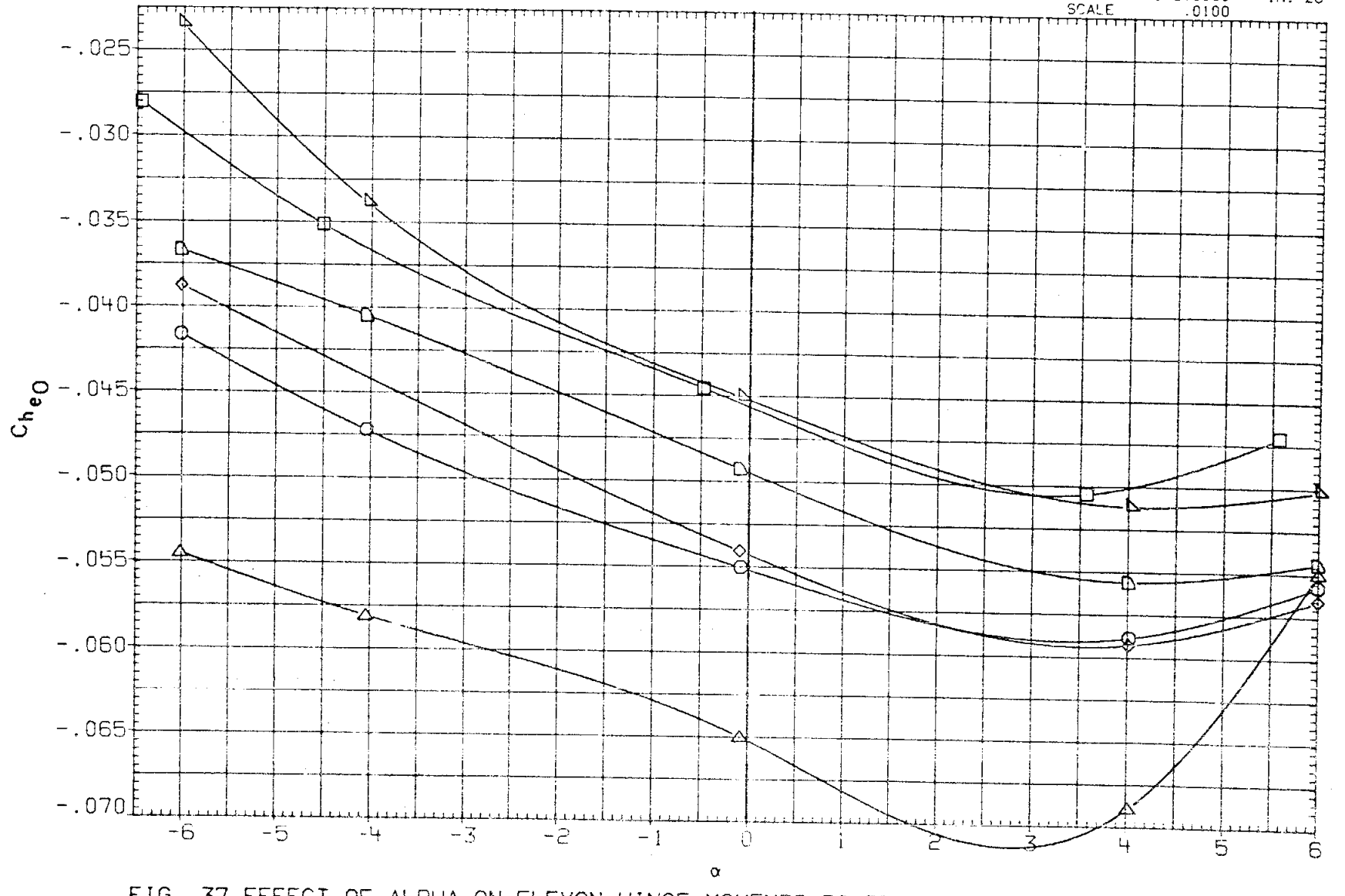

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(B) BETA = -.13

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D053	◁	IA138 AMES 246-1-97	OTS	POWER ON	
R3D055	D	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

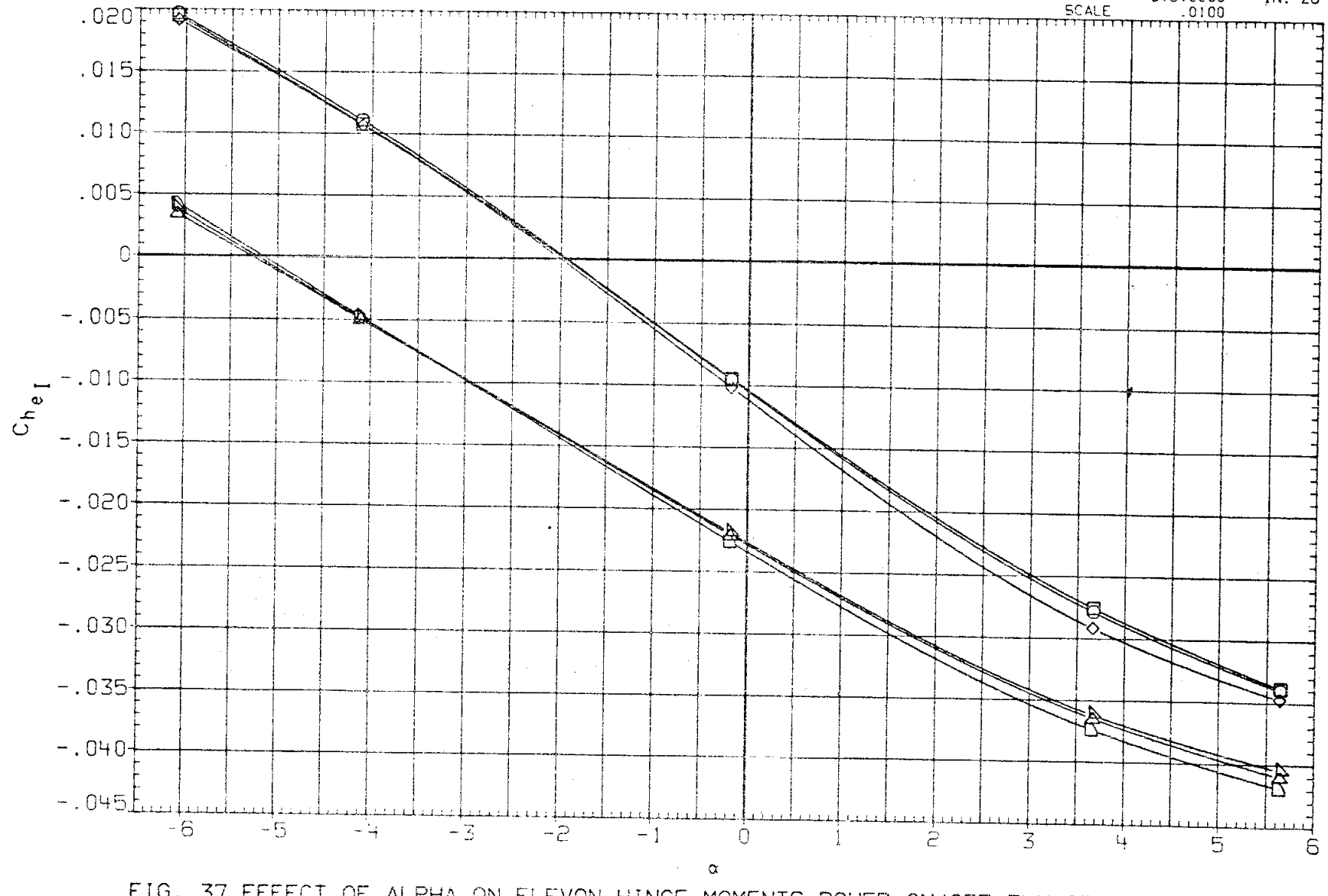

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(C) BETA = 3.74

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D020	○	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D023	□	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D025	◇	IA138 AMES 246-1-97	OTS	POWER OFF	
R3D050	△	IA138 AMES 246-1-97	OTS	POWER ON	
R3D053	▷	IA138 AMES 246-1-97	OTS	POWER ON	
R3D055	▽	IA138 AMES 246-1-97	OTS	POWER ON	

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
4.000	-2.000	2.500	.000	.000
4.000	-5.000	2.500	.000	.000
4.000	2.000	2.500	.000	.000
4.000	-2.000	2.500	748.805	1326.922
4.000	-5.000	2.500	752.323	1319.085
4.000	2.000	2.500	743.821	1312.481

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

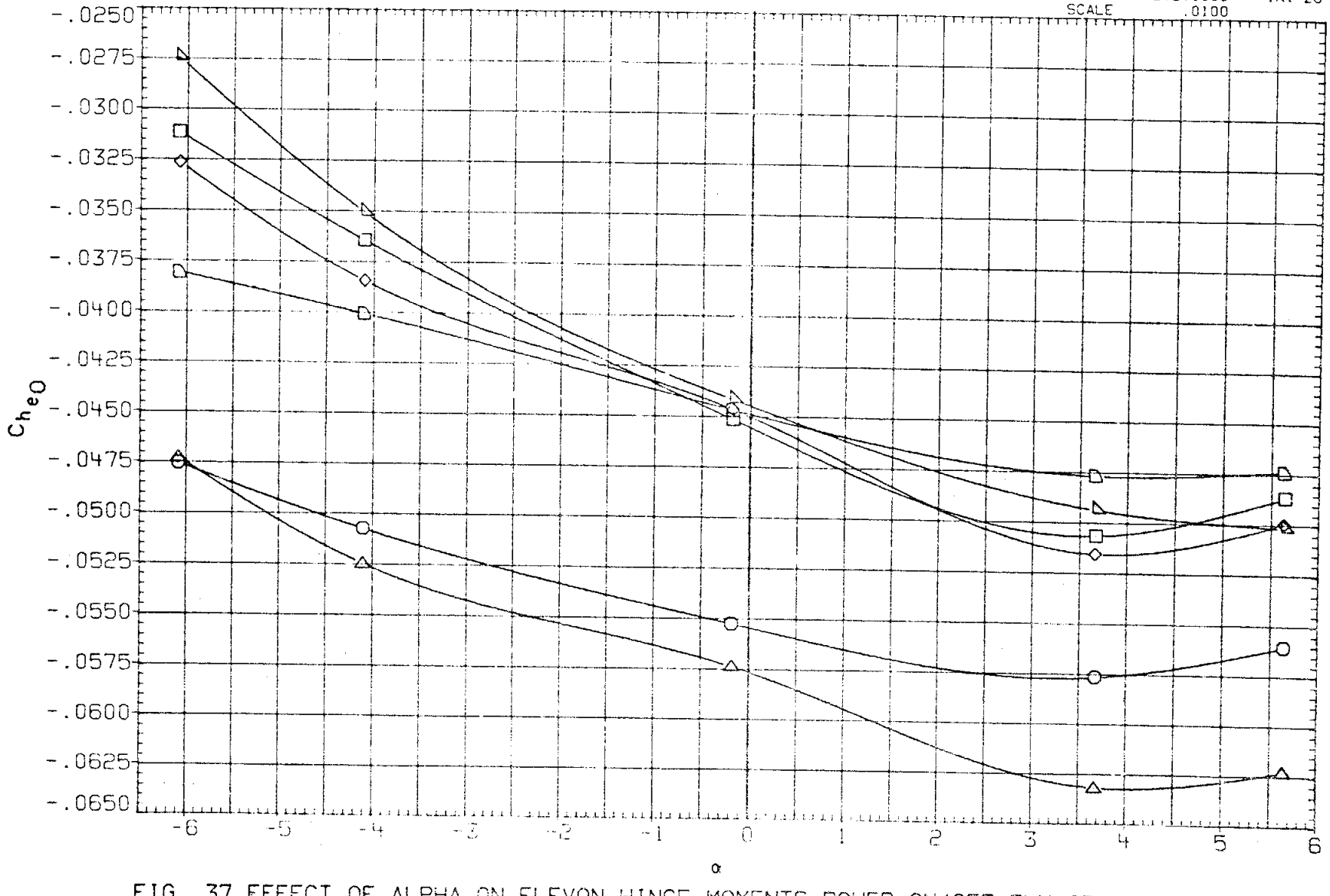

FIG. 37 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=4, MACH=2.5

(C)BETA = 3.74

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

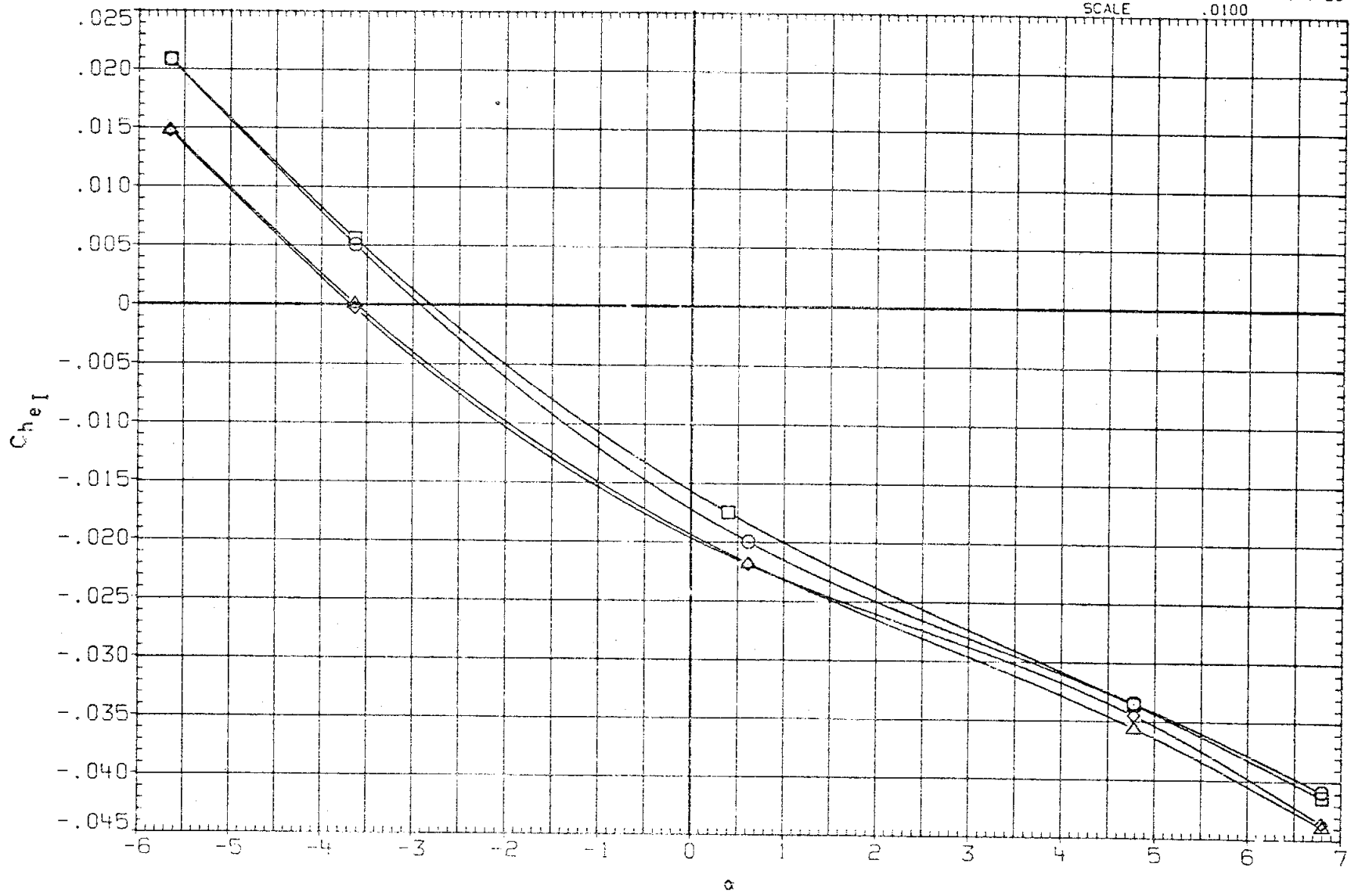

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(A)BETA = -4.35

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R3D026	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D028	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D056	◇	IA138 AMES 246-1-97 OTS POWER ON
R3D058	△	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

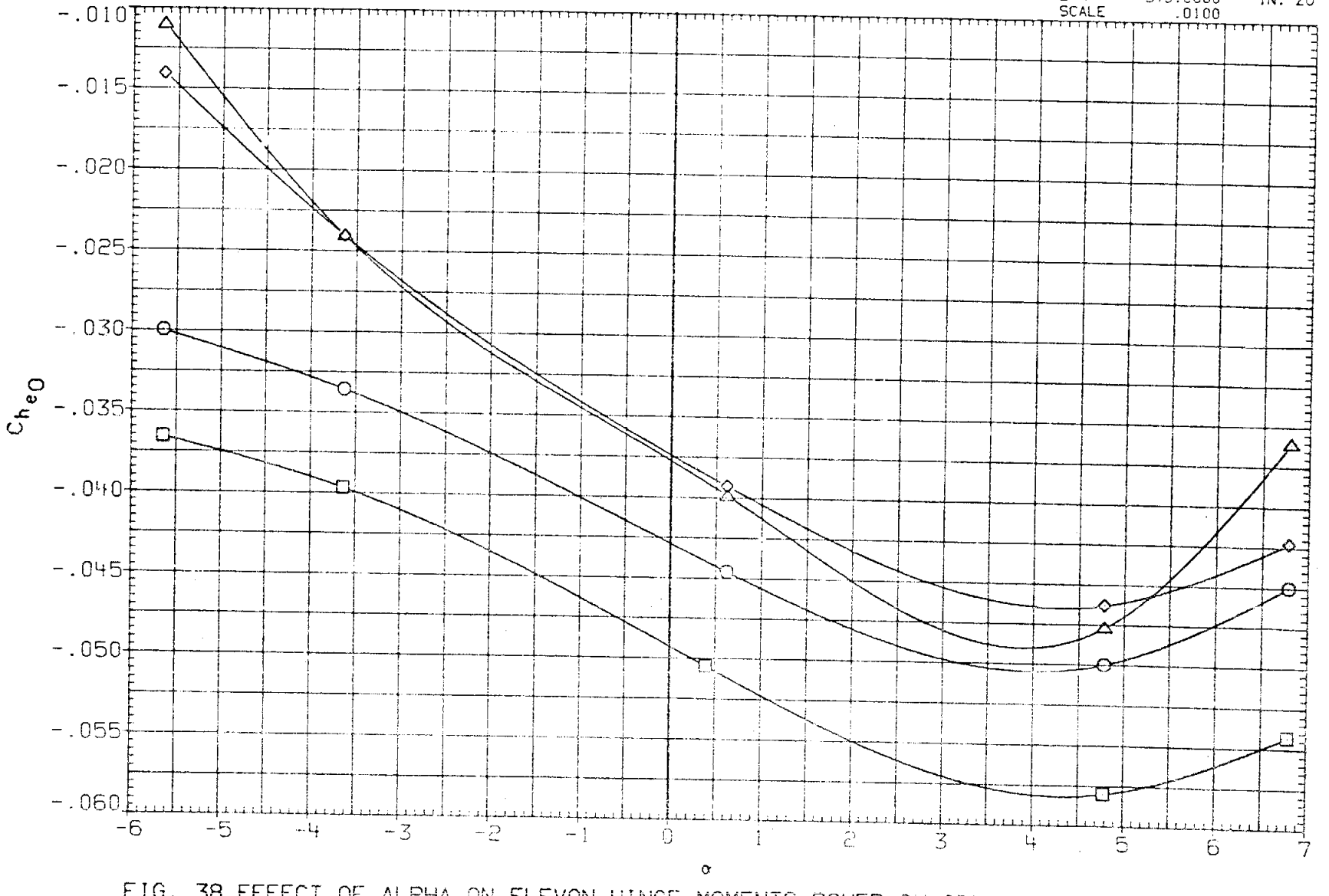

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(A)BETA = -4.35

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
R3D036	○	IA138 AMES 246-1-97	01S	POWER OFF	.000	-2.000	2.200	.000	.000
R3D028	□	IA138 AMES 246-1-97	01S	POWER OFF	.000	-5.000	2.200	.000	.000
R3D056	◇	IA138 AMES 246-1-97	01S	POWER ON	.000	-2.000	2.200	460.159	740.665
R3D058	△	IA138 AMES 246-1-97	01S	POWER ON	.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

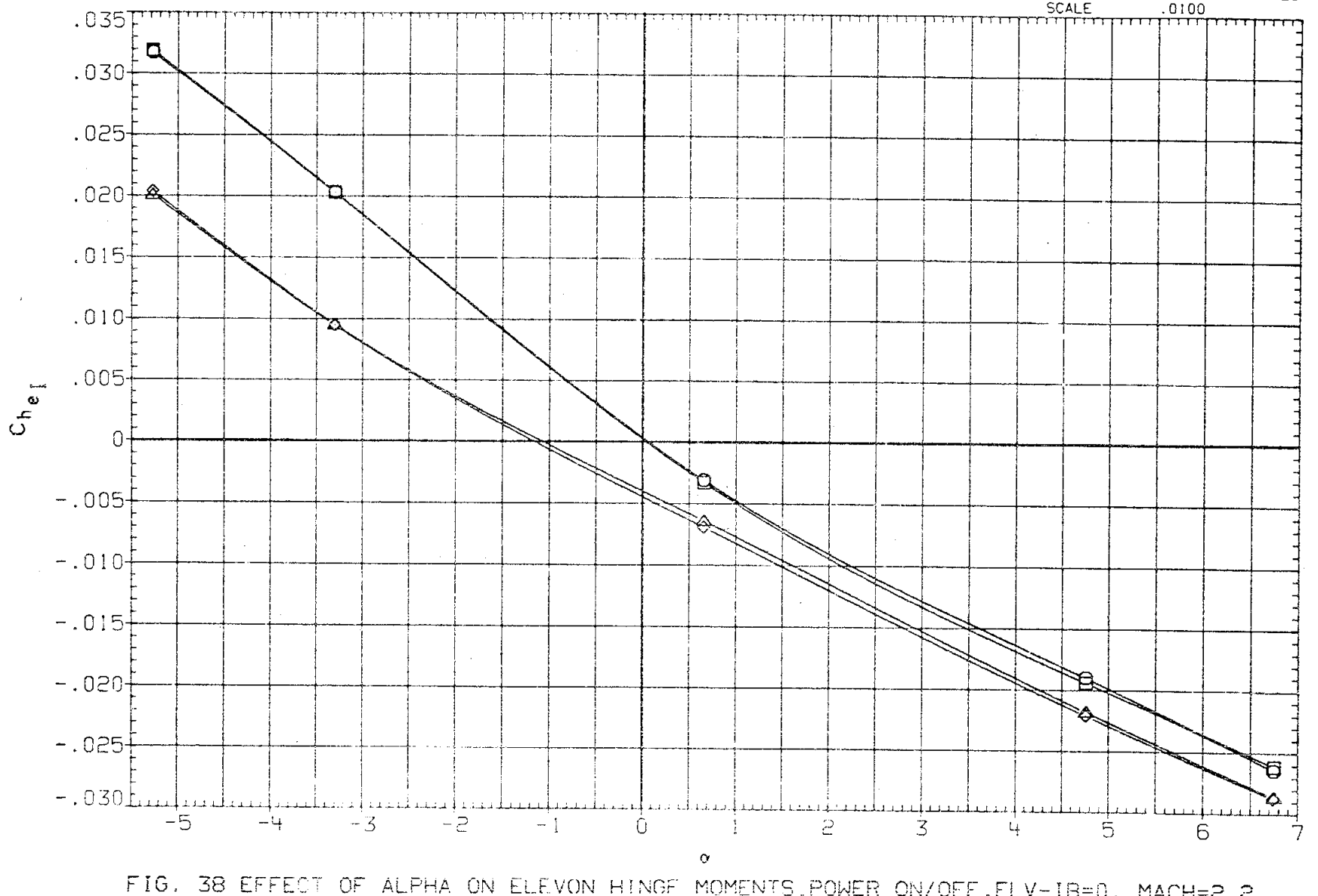

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-1B=0, MACH=2.2

(B)BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

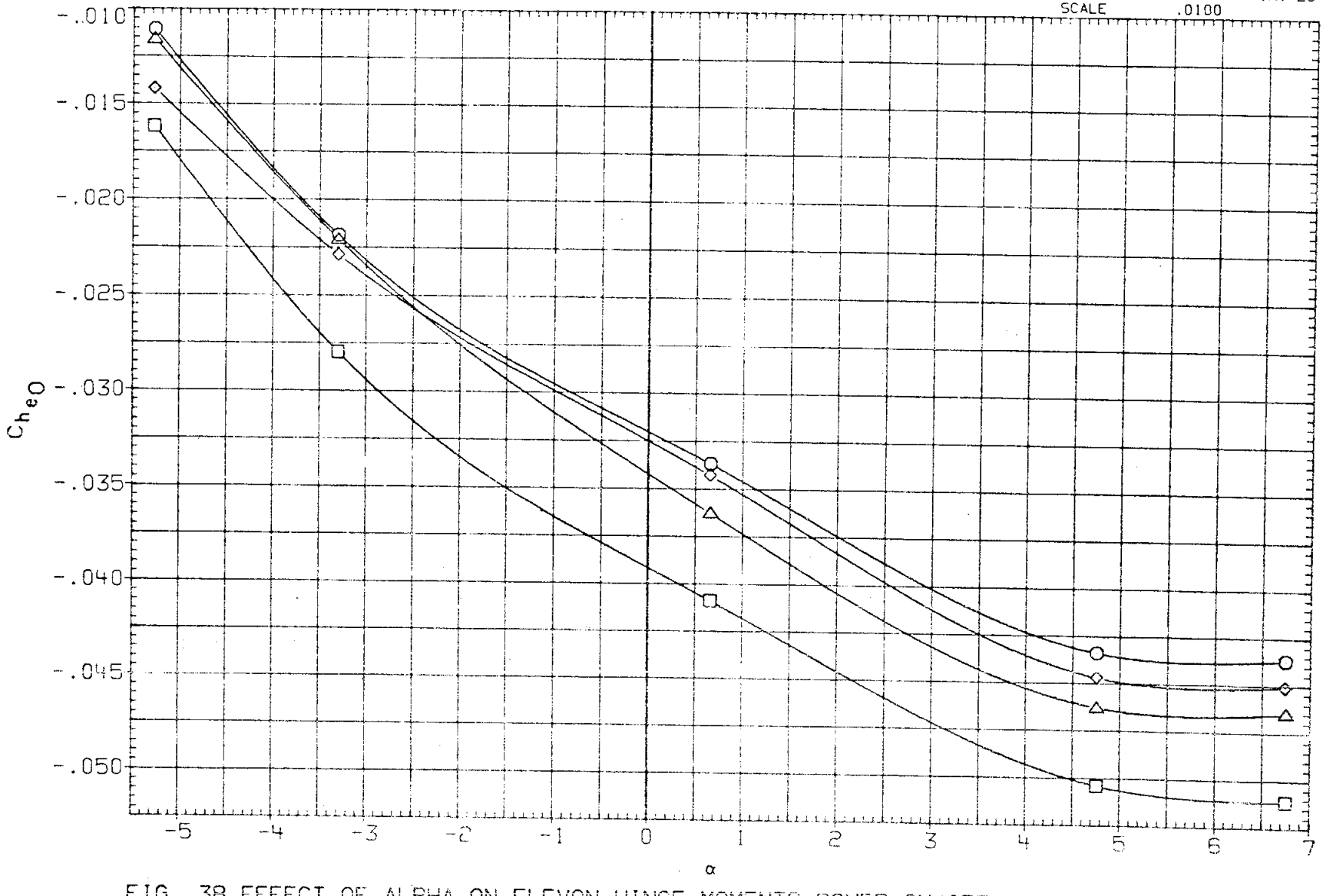

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(B) BETA = -.18

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
R3D026	○	IA138 AMES 246-1-97 OTS POWER OFF
R3D070	□	IA138 AMES 246-1-97 OTS POWER OFF
R3D056	◇	IA138 AMES 246-1-97 OTS POWER ON
R3D058	△	IA138 AMES 246-1-97 OTS POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6900	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

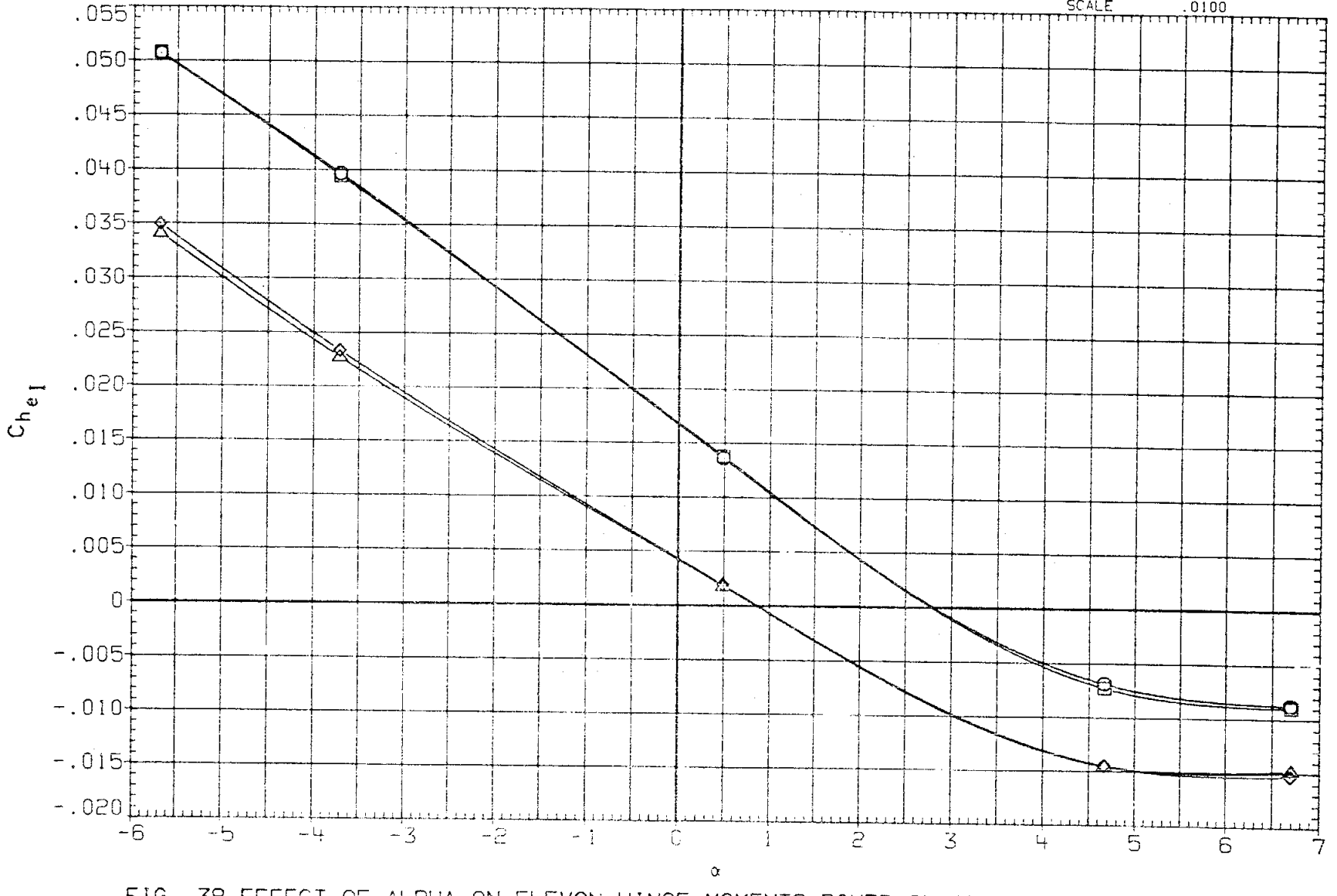

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(C)BETA = 3.84

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D026	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D028	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D056	◇	IA138 AMES 246-1-97	OTS	POWER ON
R3D058	△	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	.000	.000
.000	-5.000	2.200	.000	.000
.000	-2.000	2.200	460.159	740.665
.000	-5.000	2.200	462.862	741.568

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

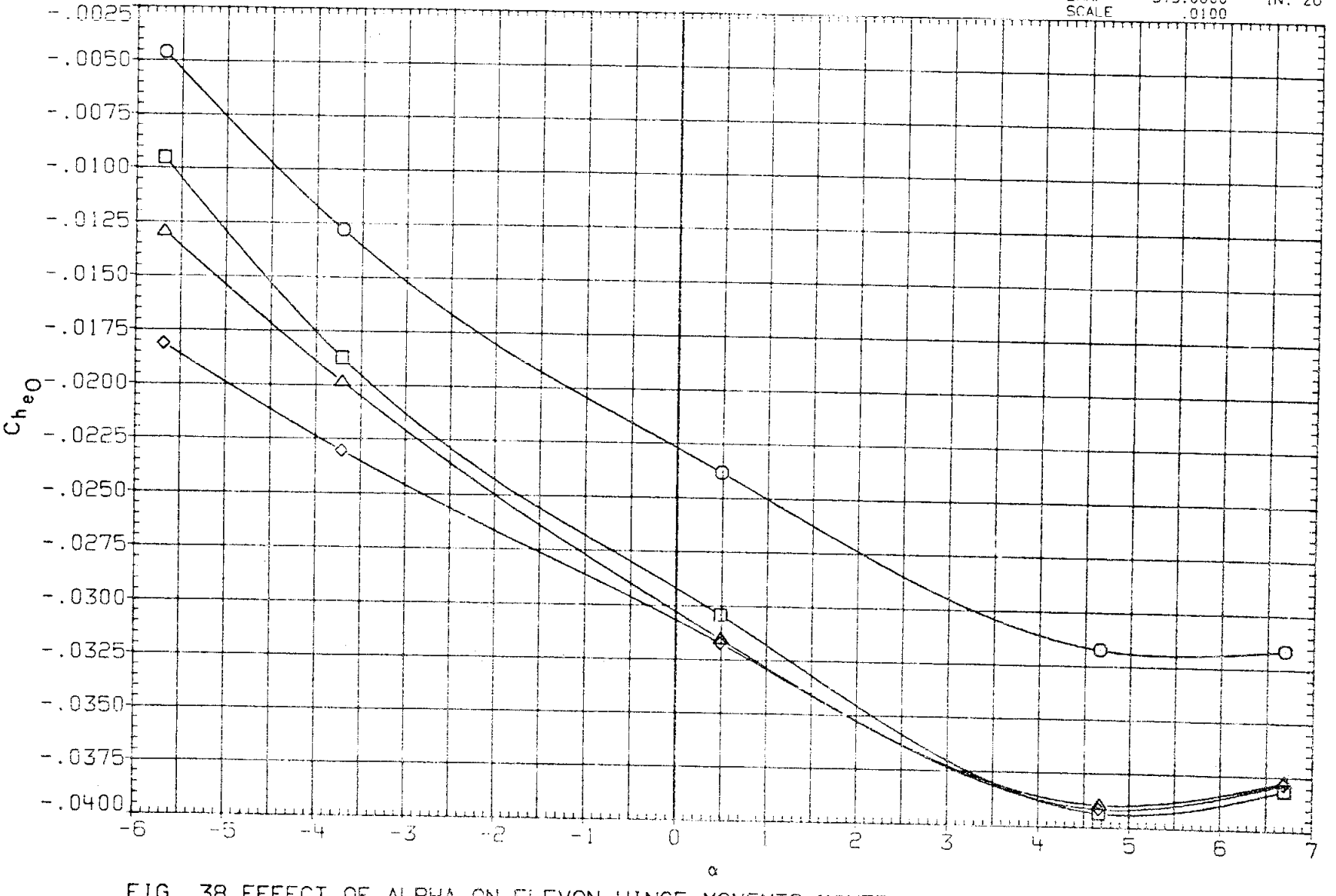

FIG. 38 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.2

(C)BETA = 3.84

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA136 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

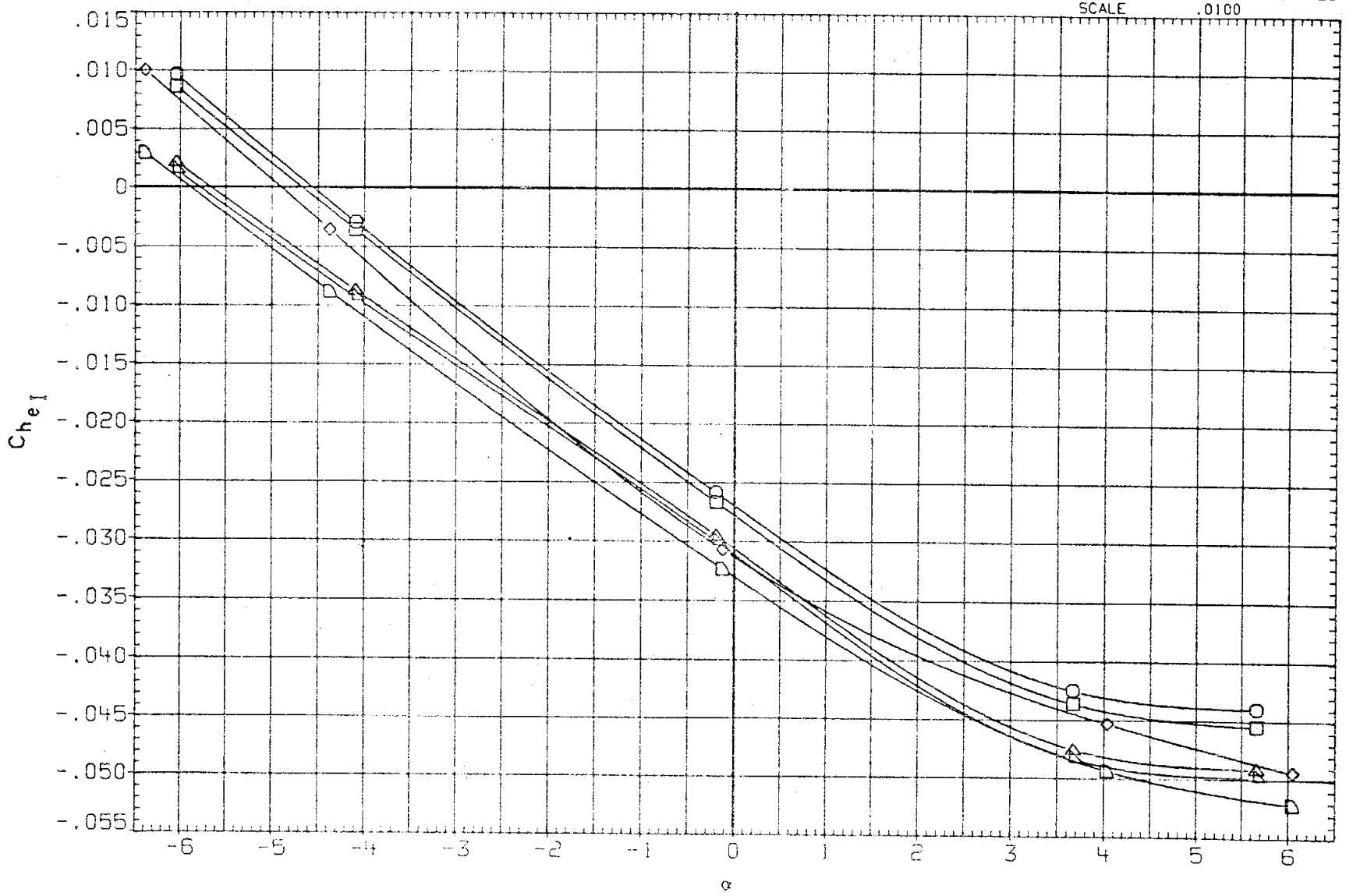

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

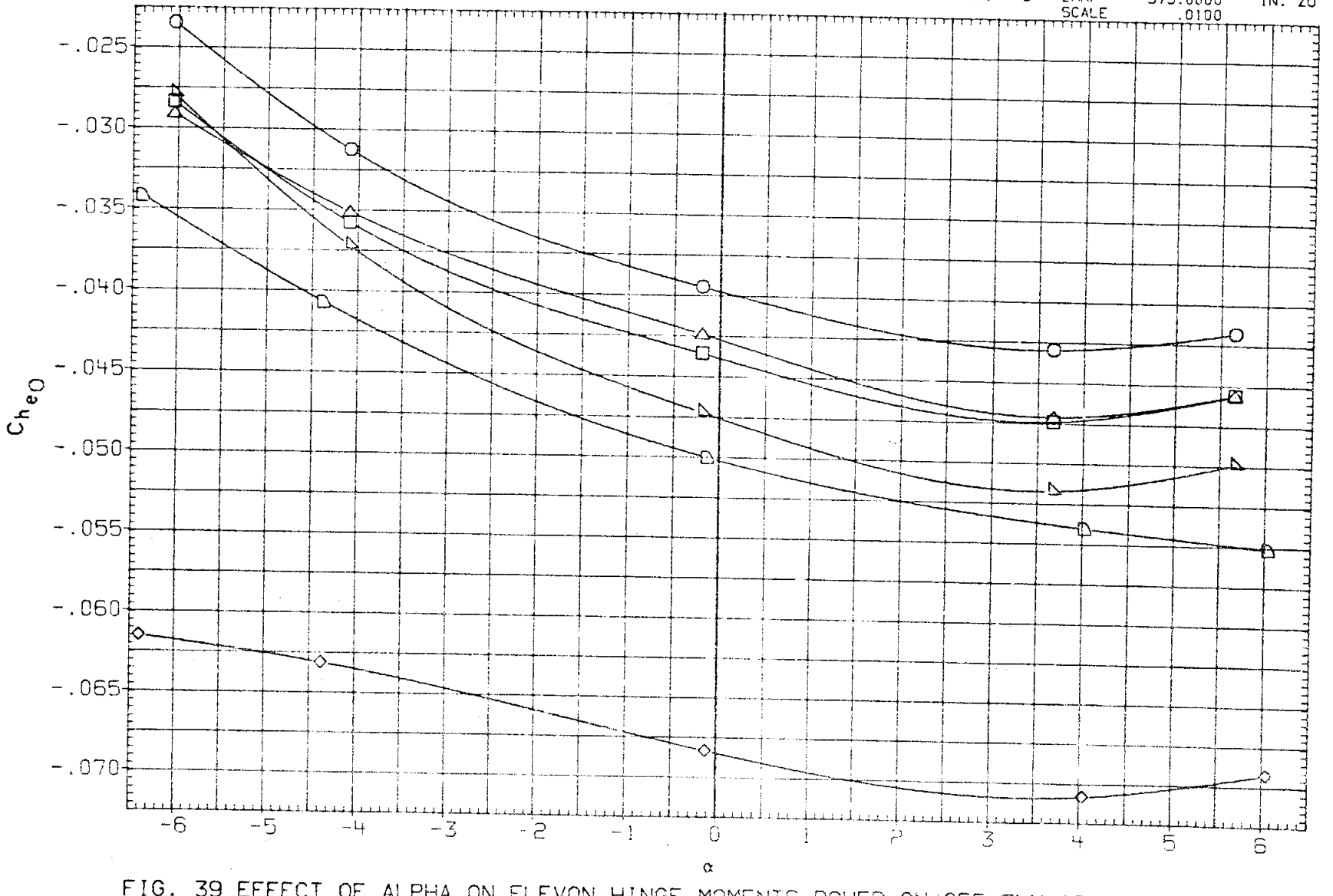

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(A) BETA = -4.02

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

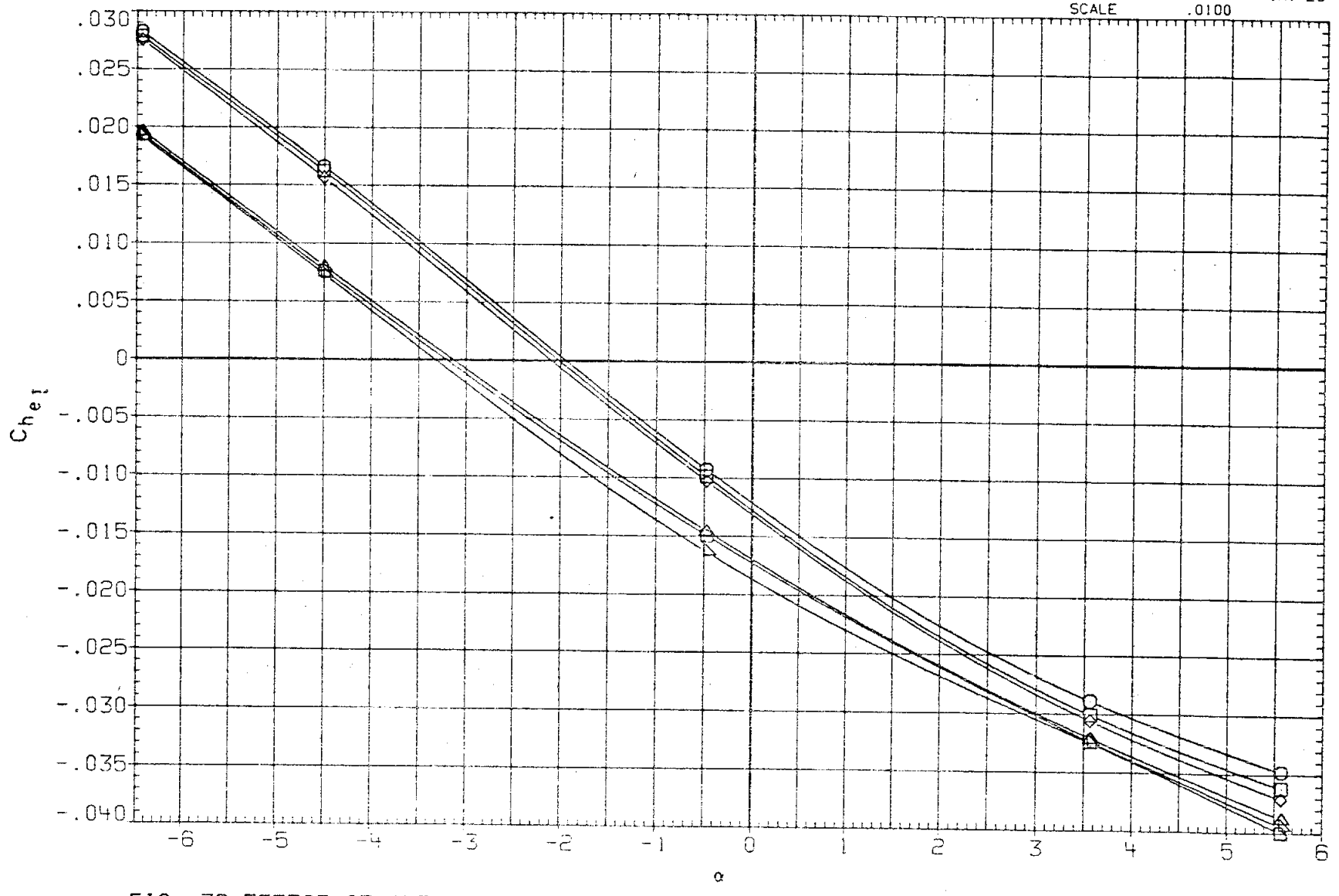

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(B)BETA = -.15

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION		
R3D027	○	IA138 AMES 245-1-97	OTS	POWER OFF
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON
R3D059	▽	IA138 AMES 246-1-97	OTS	POWER ON
R3D060	D	IA138 AMES 246-1-97	OTS	POWER ON

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.500	.000	.000
.000	-5.000	2.500	.000	.000
.000	2.000	2.500	.000	.000
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

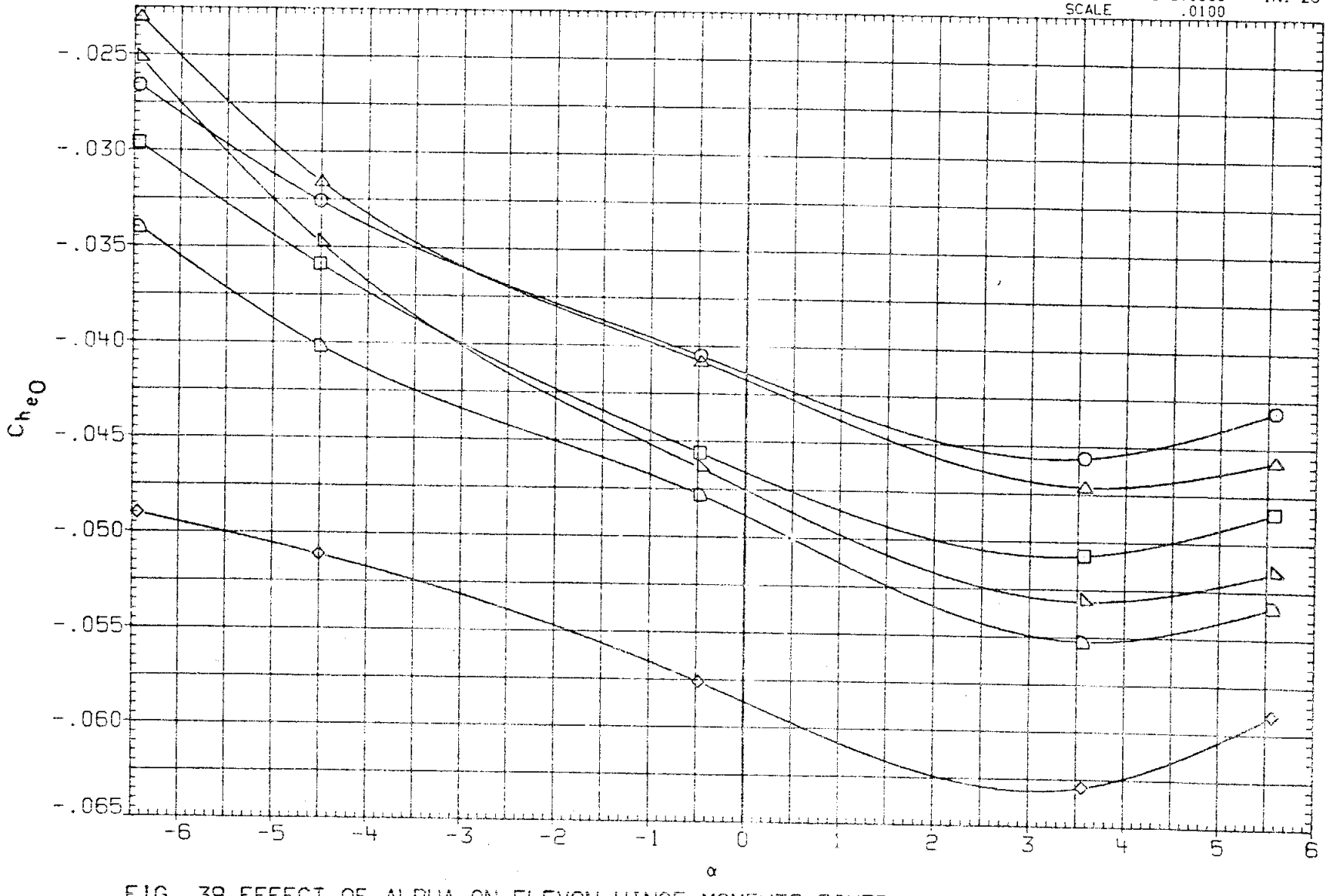

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(B) BETA = -.15

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97 OTS POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97 OTS POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97 OTS POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97 OTS POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	◸	IA138 AMES 246-1-97 OTS POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▱	IA138 AMES 246-1-97 OTS POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

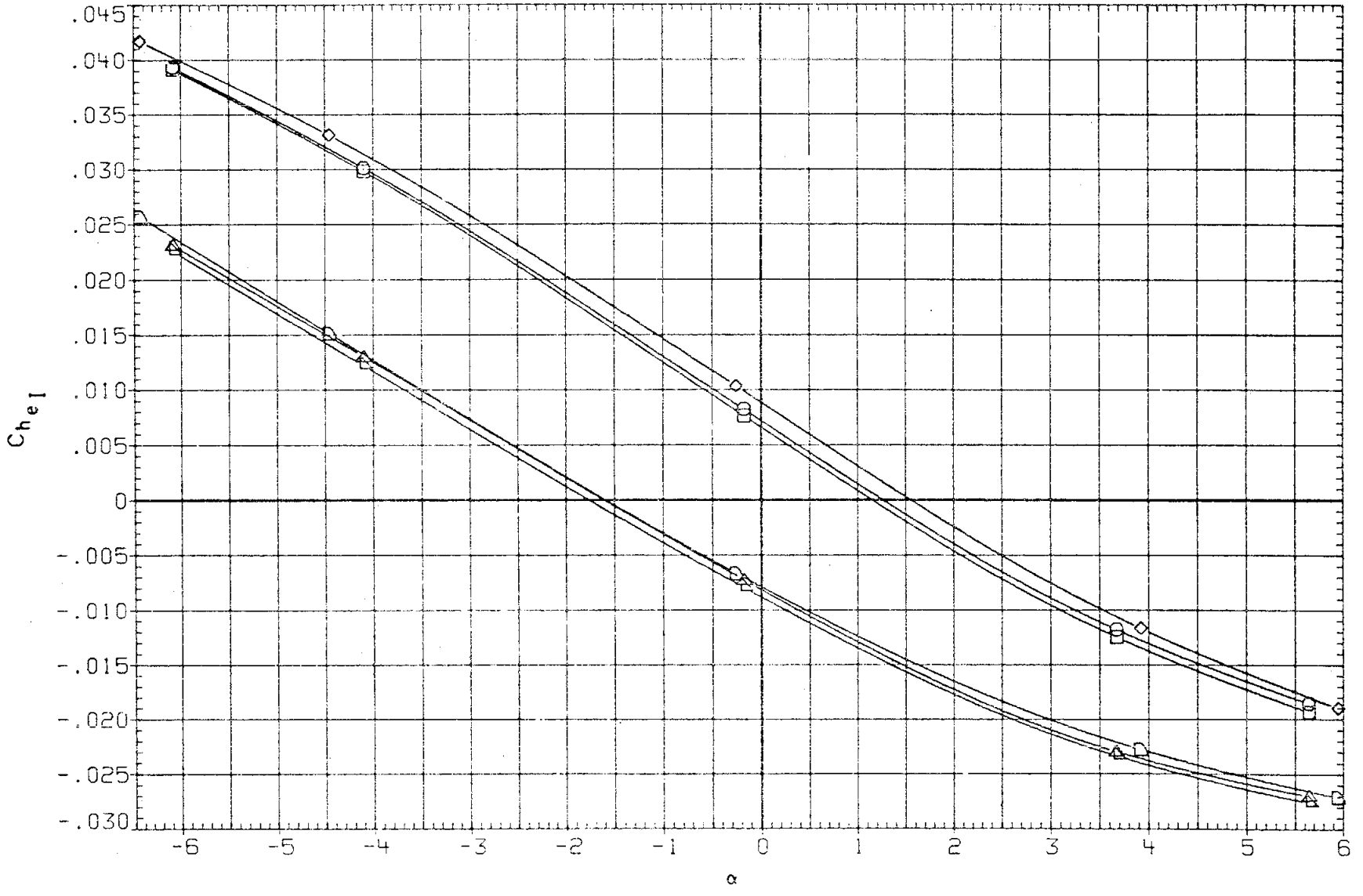

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

DATA SET	SYMBOL	CONFIGURATION			ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
R3D027	○	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-2.000	2.500	.000	.000
R3D029	□	IA138 AMES 246-1-97	OTS	POWER OFF	.000	-5.000	2.500	.000	.000
R3D030	◇	IA138 AMES 246-1-97	OTS	POWER OFF	.000	2.000	2.500	.000	.000
R3D057	△	IA138 AMES 246-1-97	OTS	POWER ON	.000	-2.000	2.500	751.892	1322.416
R3D059	◁	IA138 AMES 246-1-97	OTS	POWER ON	.000	-5.000	2.500	748.275	1325.283
R3D060	▷	IA138 AMES 246-1-97	OTS	POWER ON	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

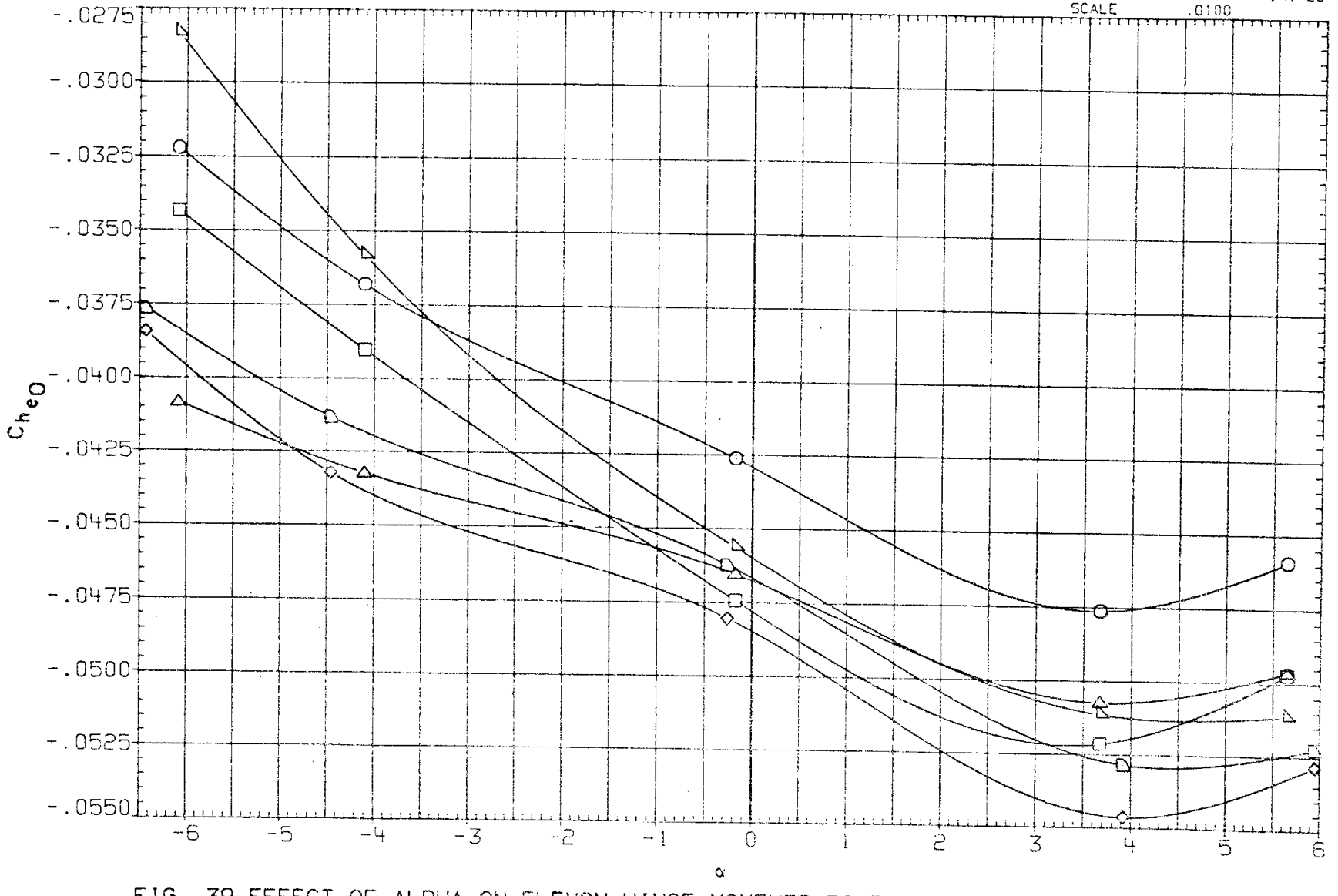

FIG. 39 EFFECT OF ALPHA ON ELEVON HINGE MOMENTS, POWER ON/OFF, ELV-IB=0, MACH=2.5

(C)BETA = 3.69

DATE 17 OCT 78

R3D031 CONFIGURATION IA138 AMES 2%-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.131	SRBPR	197.252
□	-.293	SSMFPR	372.504
◇	3.631	ELV-1B	10.000
		ELV-OB	-2.000
		MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

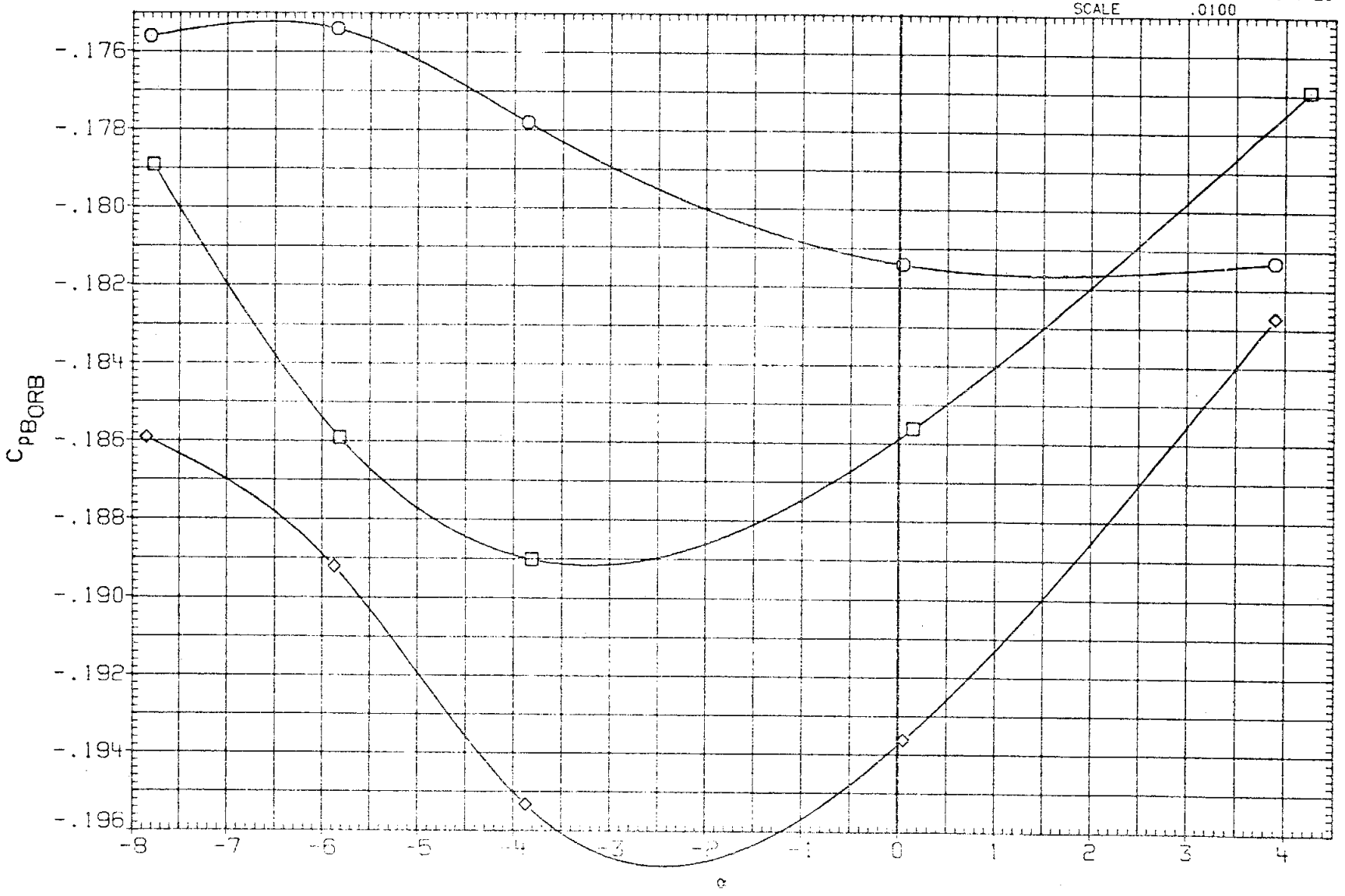

FIG. 40 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.55

DATE 17 OCT 78

CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.131	SRBPR	197.262
◇□	-.293	SSMEPR	372.504
	3.631	ELV-IB	10.000
		ELV-OB	-2.000
		MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

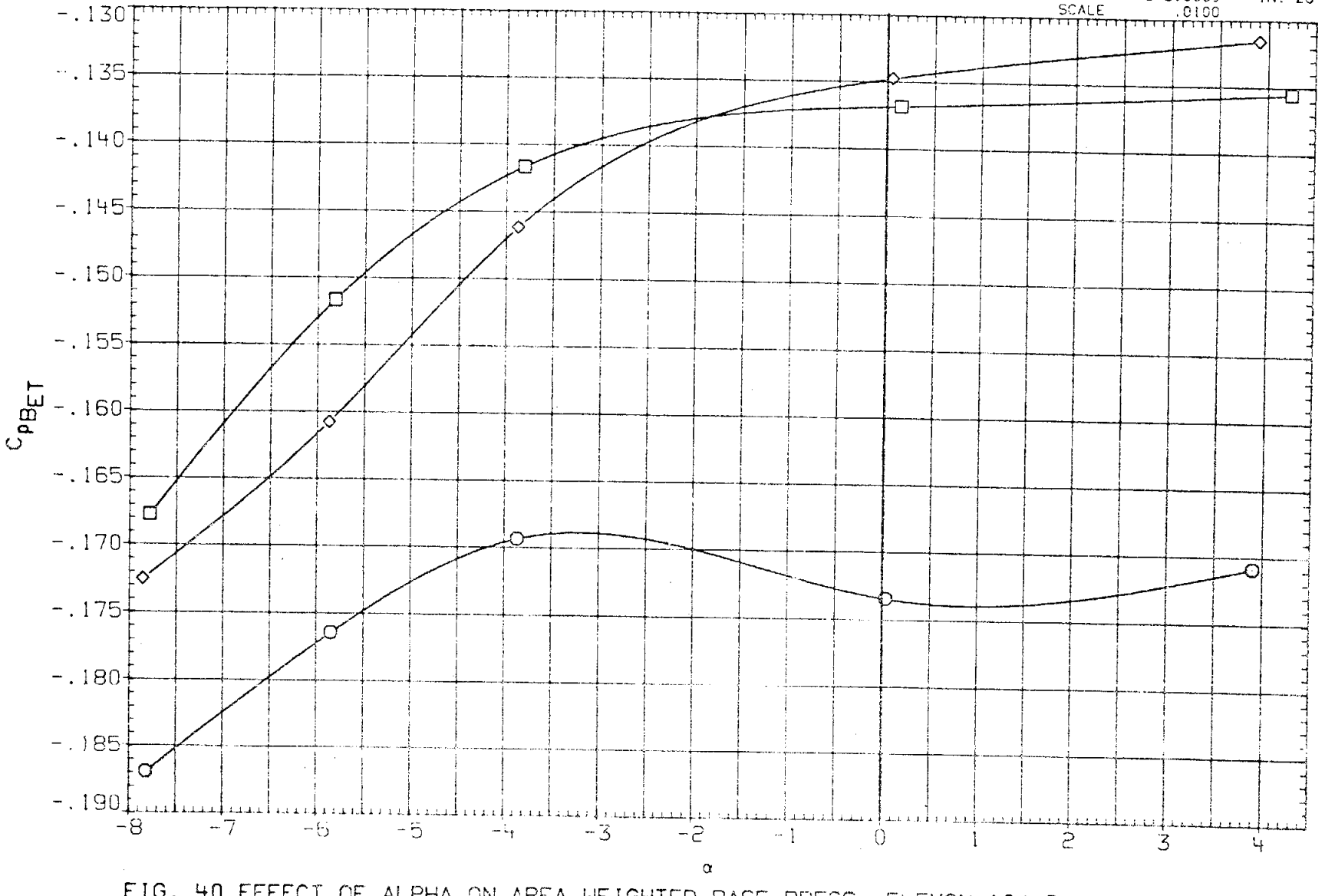

FIG. 40 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.55

DATE 17 OCT 78

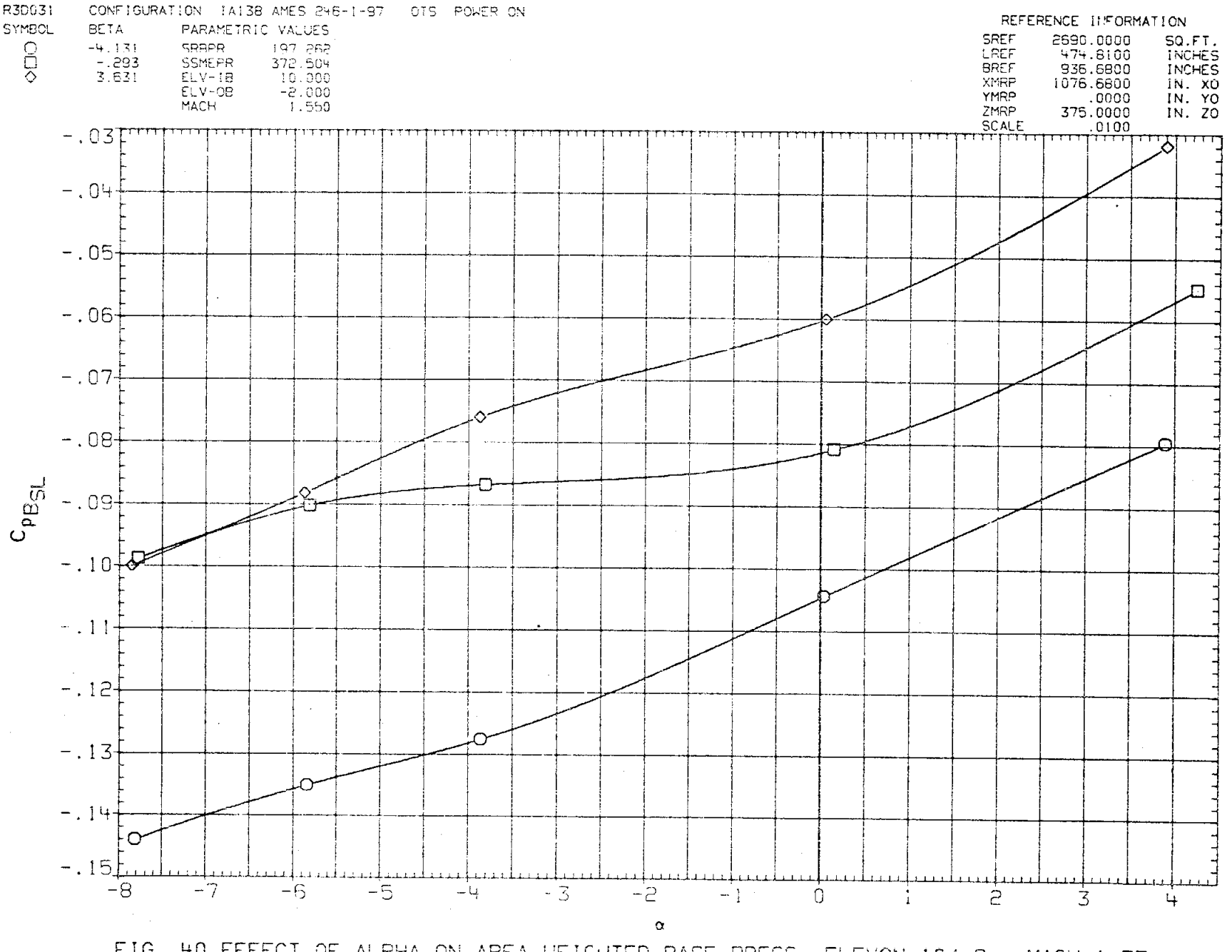

FIG. 40 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.55

DATE 17 OCT 78

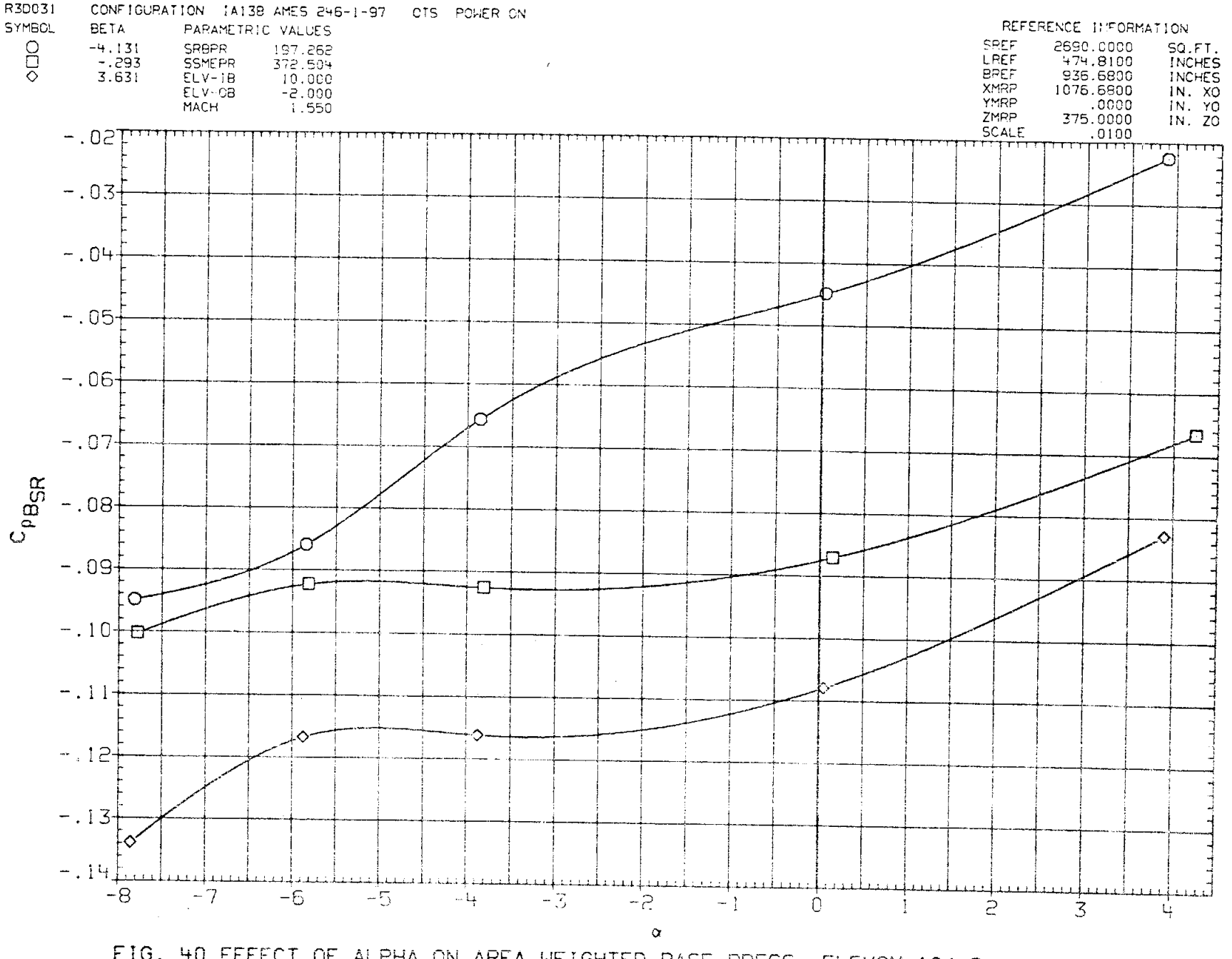

FIG. 40 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.55

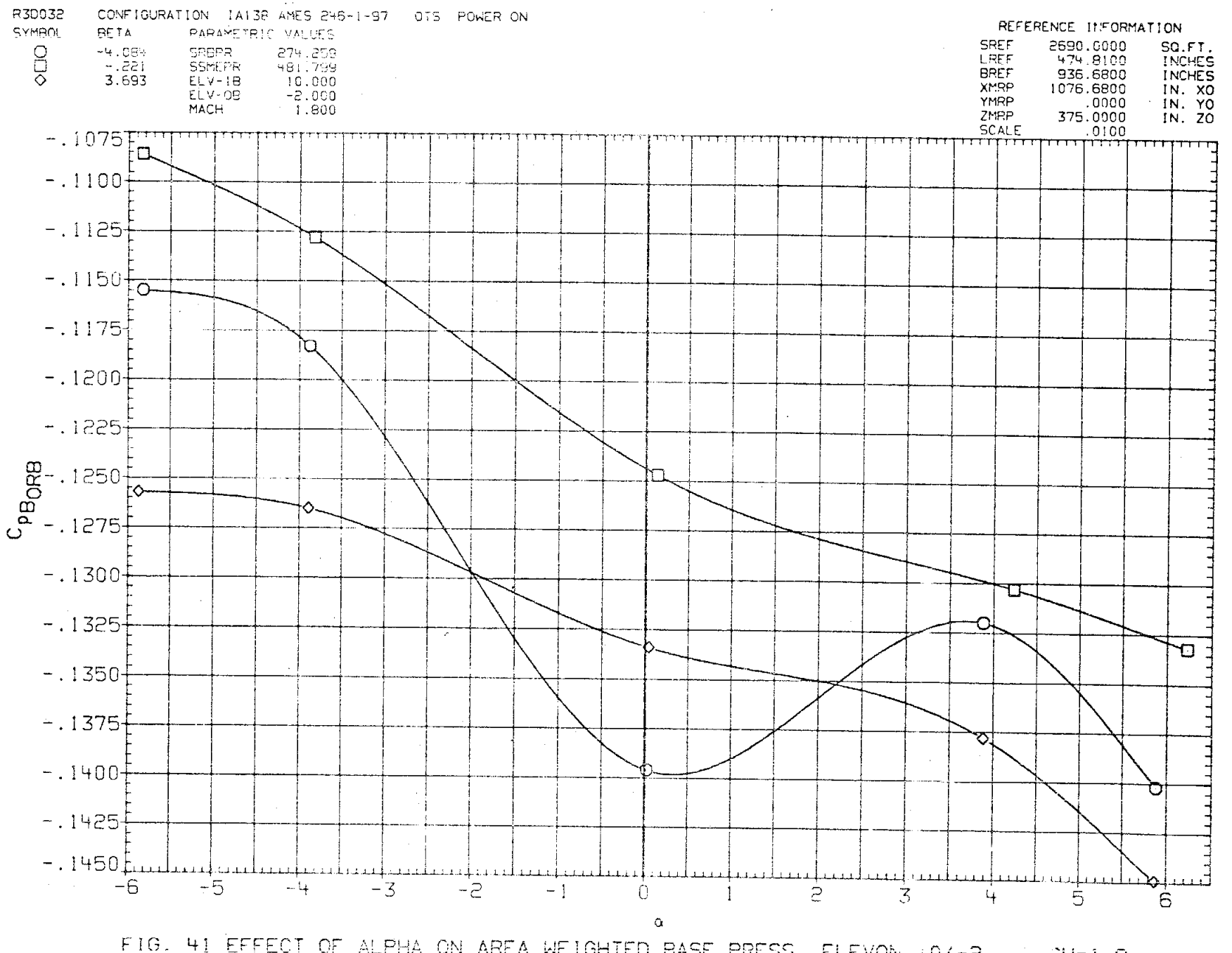

FIG. 41 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON 10/-2 CH=1.8

DATE 17 OCT 78

FIG. 41 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.8

DATE 17 OCT 78

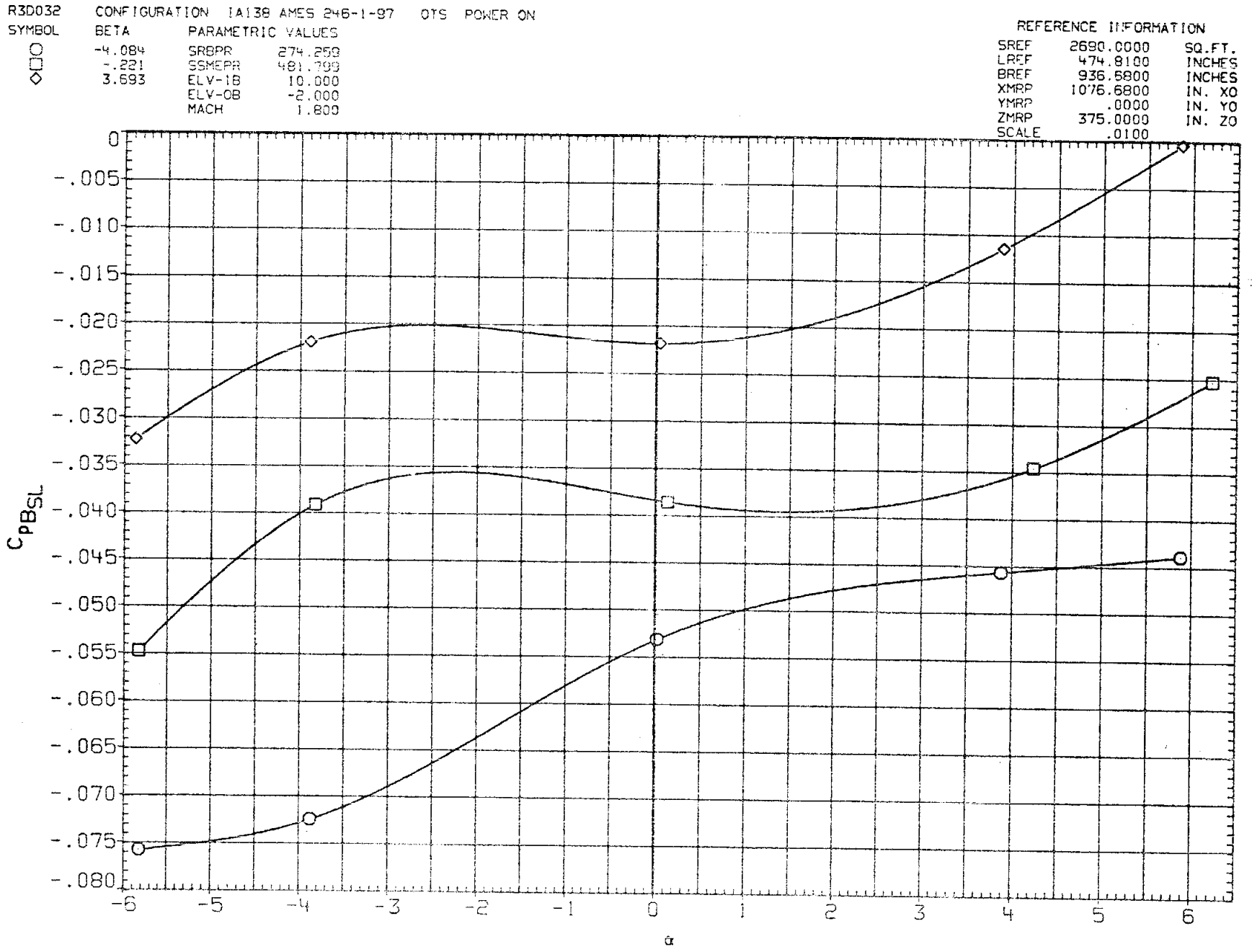

FIG. 41 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS., ELEVON=10/-2 MACH=1.8

R3D032 CONFIGURATION IA138 AMES 2¼6-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.084	SRBPR	274.259
□	-.221	SSMEPR	481.799
◇	3.693	ELV-IB	10.000
		ELV-OB	-2.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

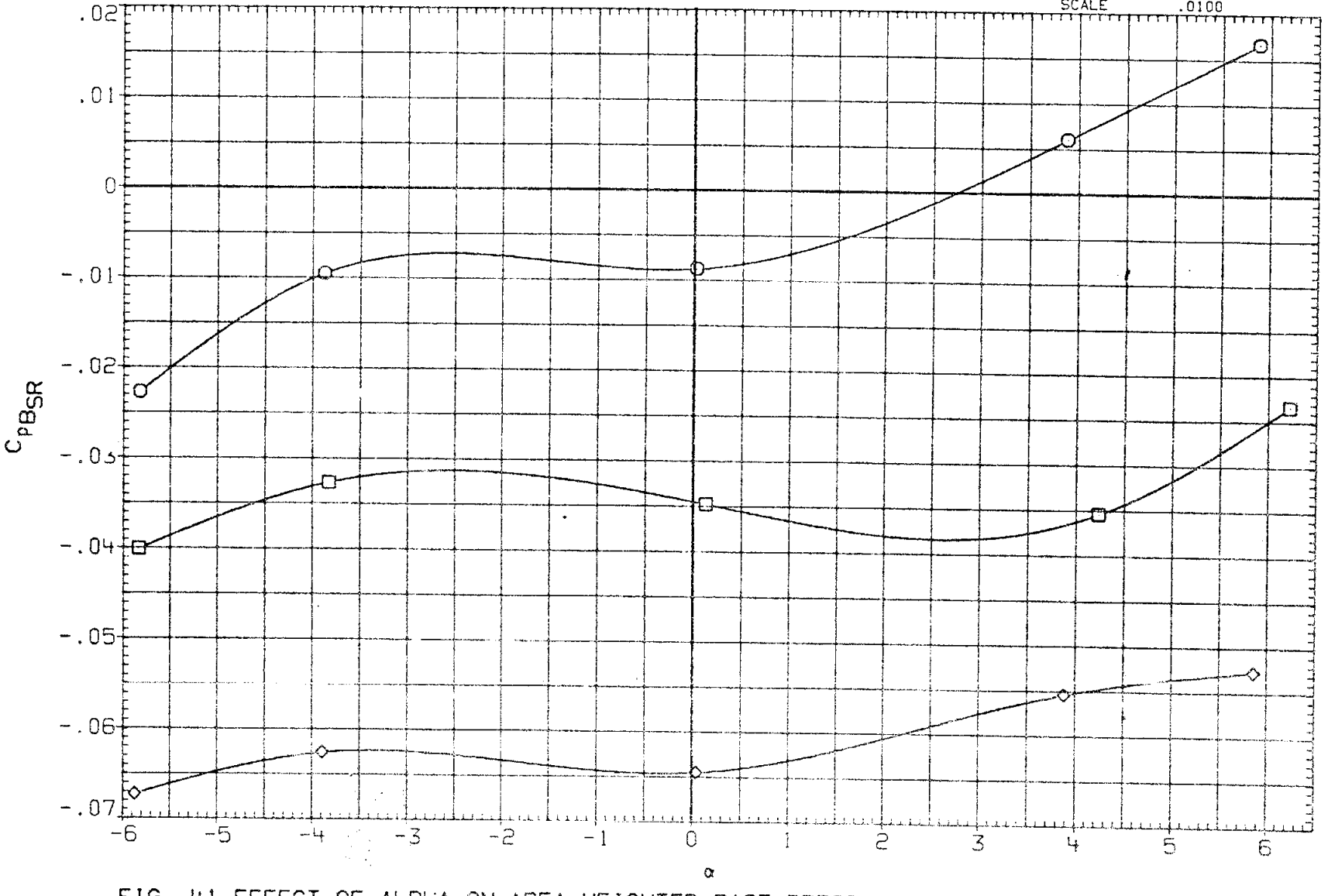

FIG. 41 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=1.8

DATE 17 OCT 78

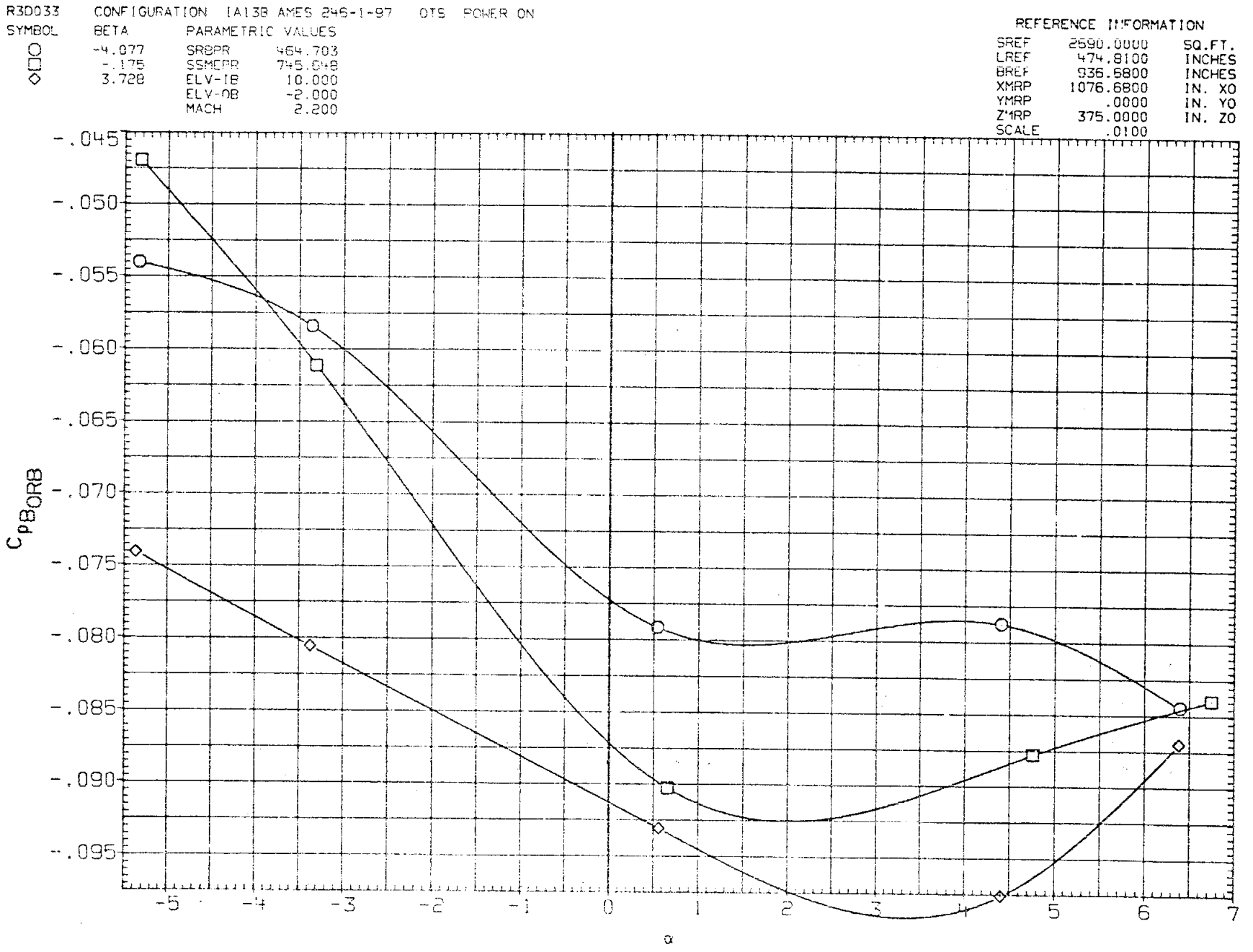

FIG. 42 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.2

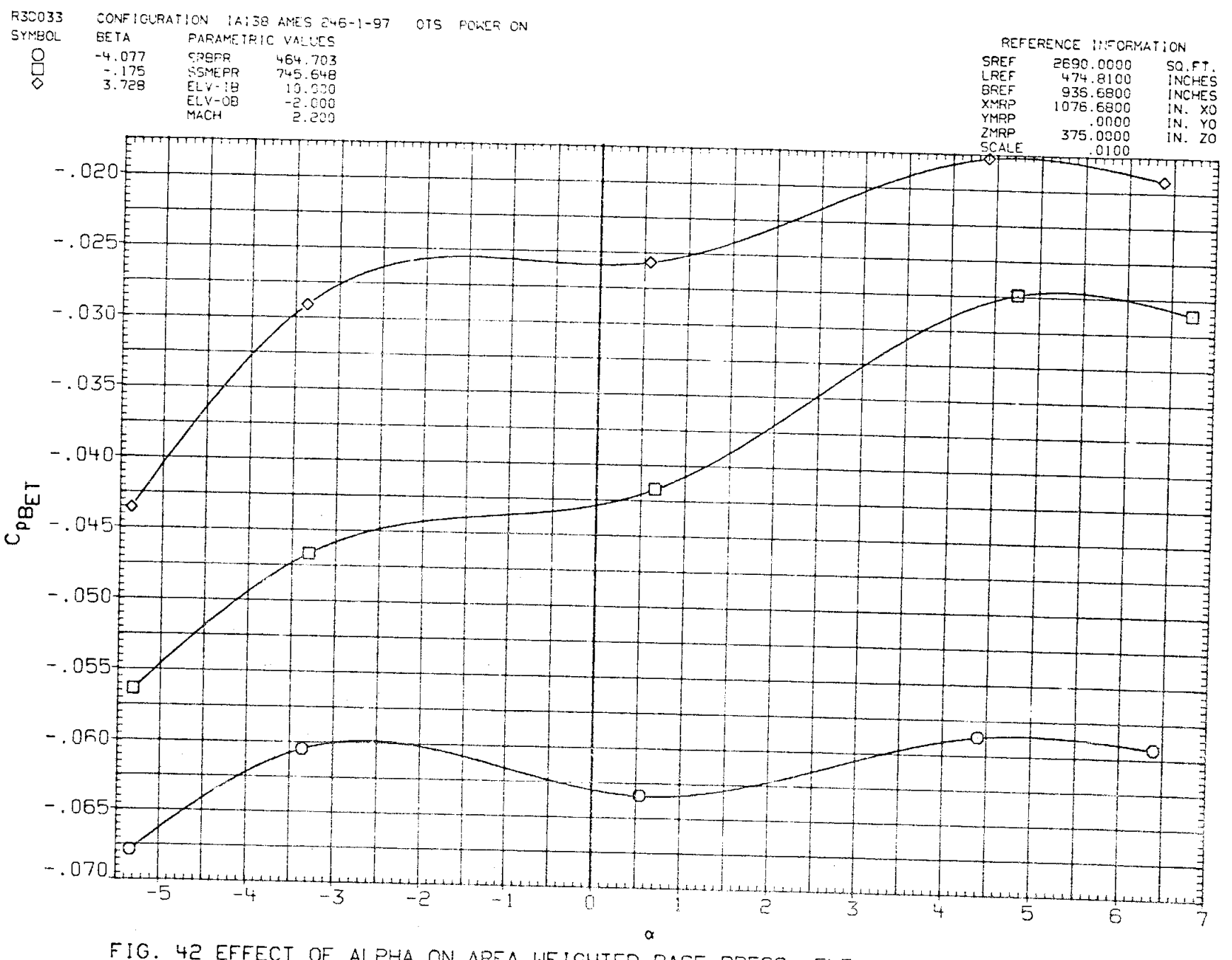

FIG. 42 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.2

DATE 17 OCT 78

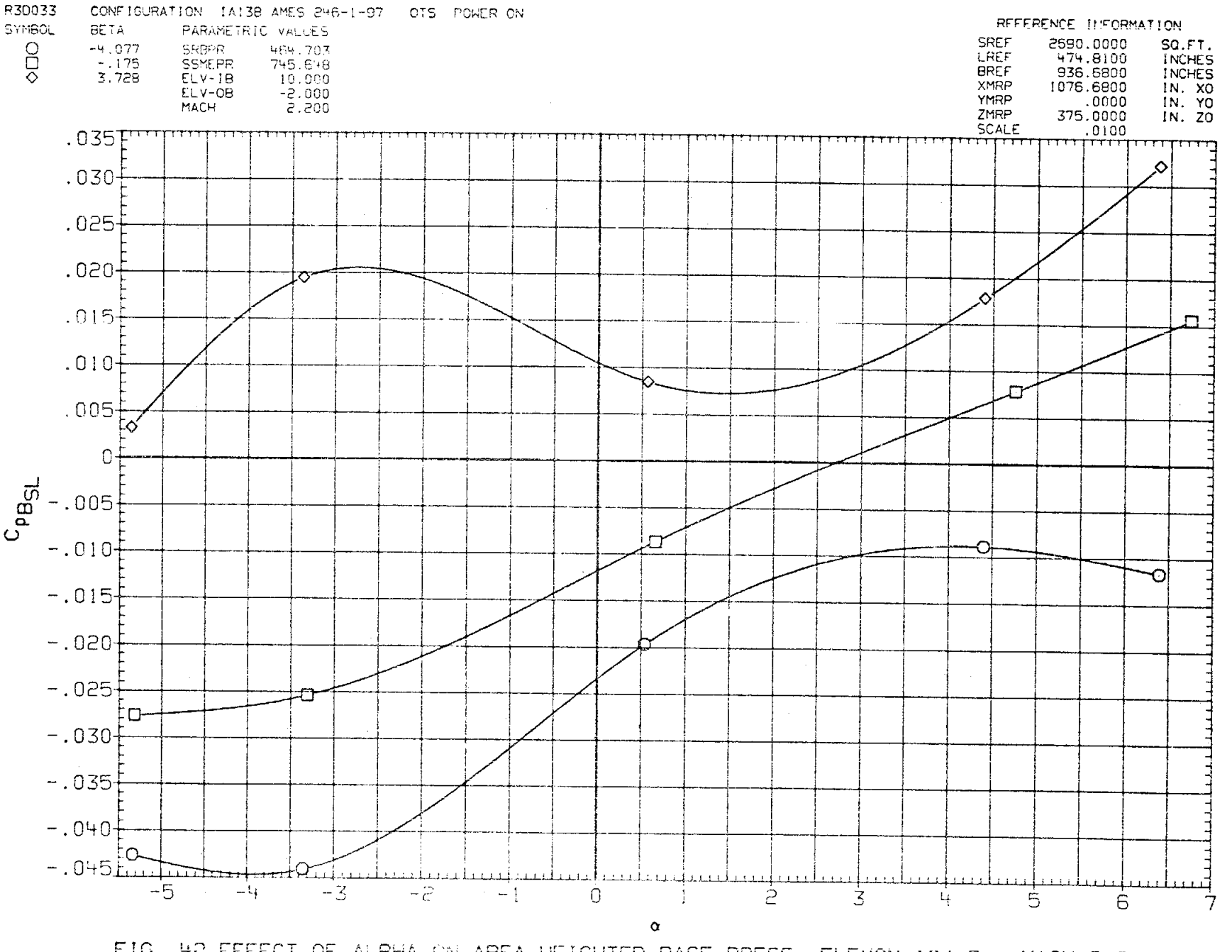

FIG. 42 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.2

R30033 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.077	SRBPR	464.703
□	-.175	SSMEPR	745.648
◇	3.728	ELV-IB	10.000
		ELV-OB	-2.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

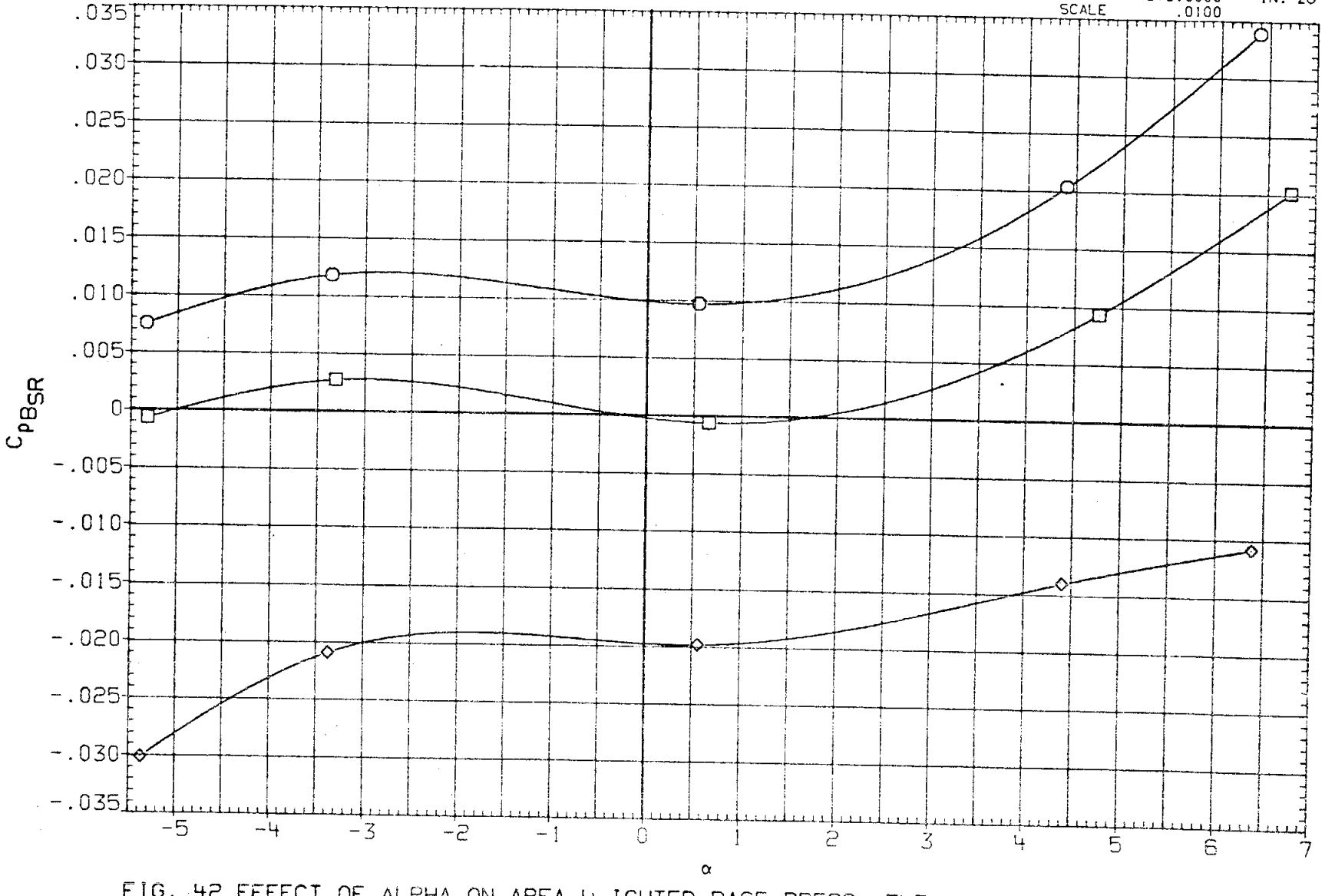

FIG. 42 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.2

DATE 17 OCT 78

FIG. 43 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.5

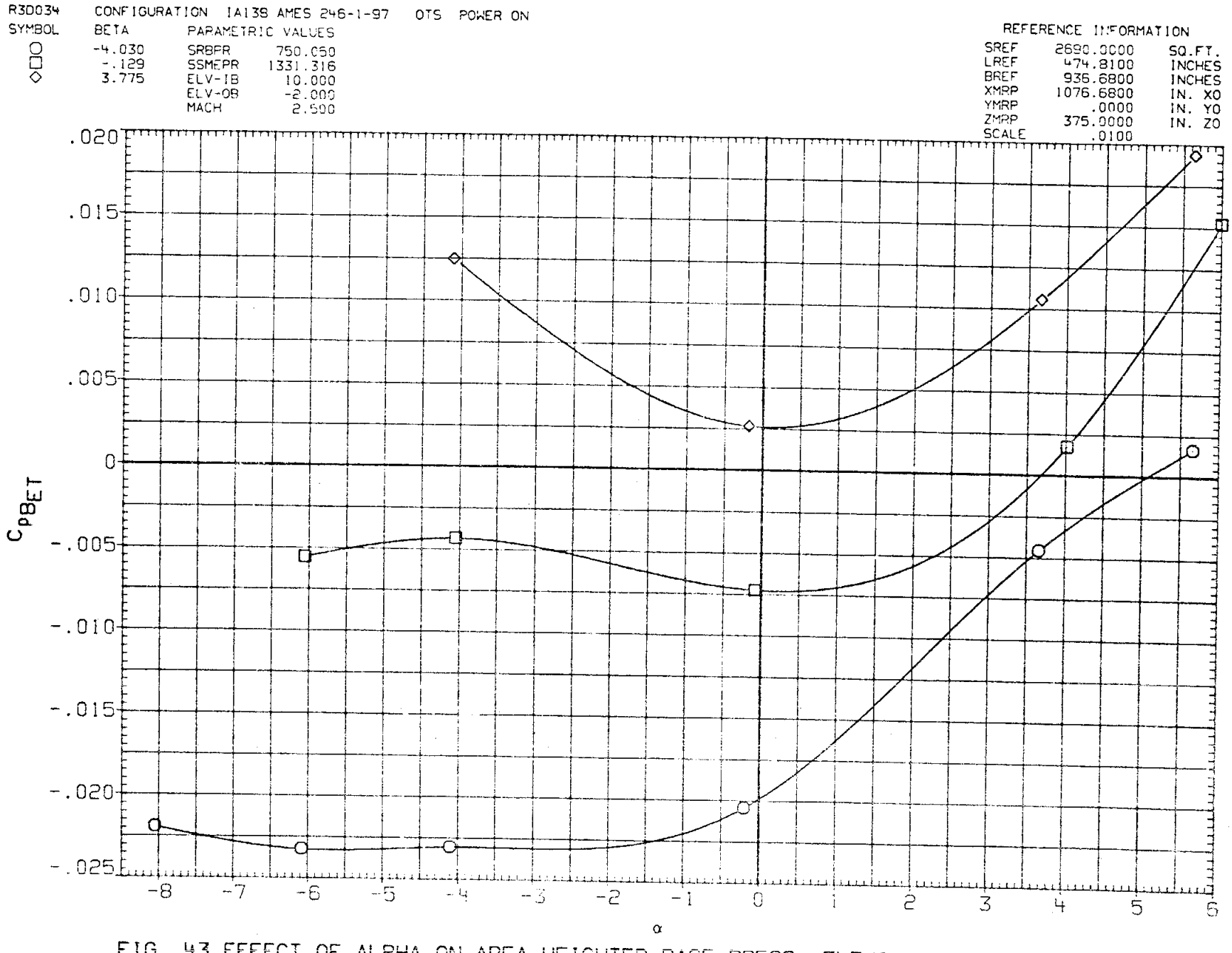

FIG. 43 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.5

DATE 17 OCT 78

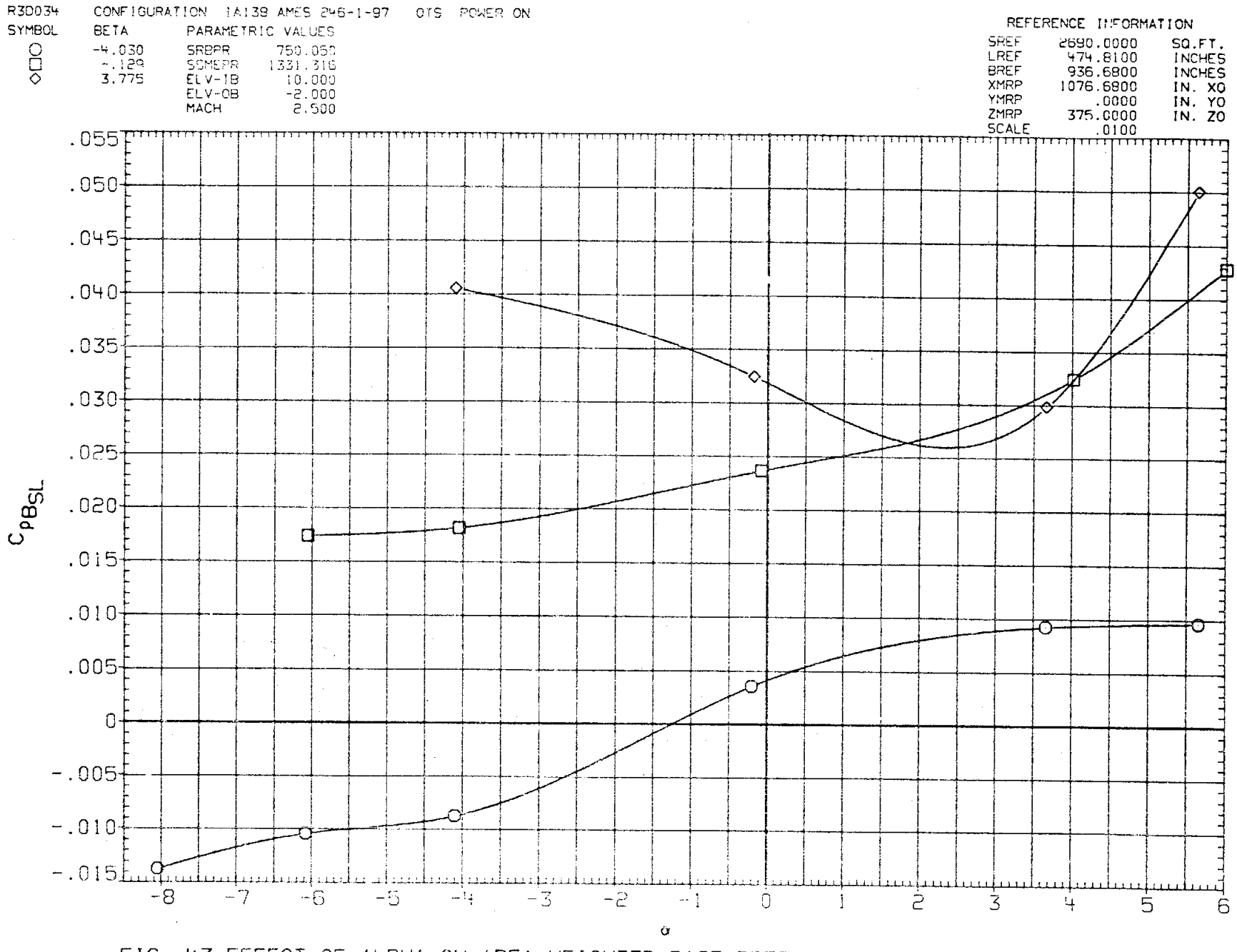

FIG. 43 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.5

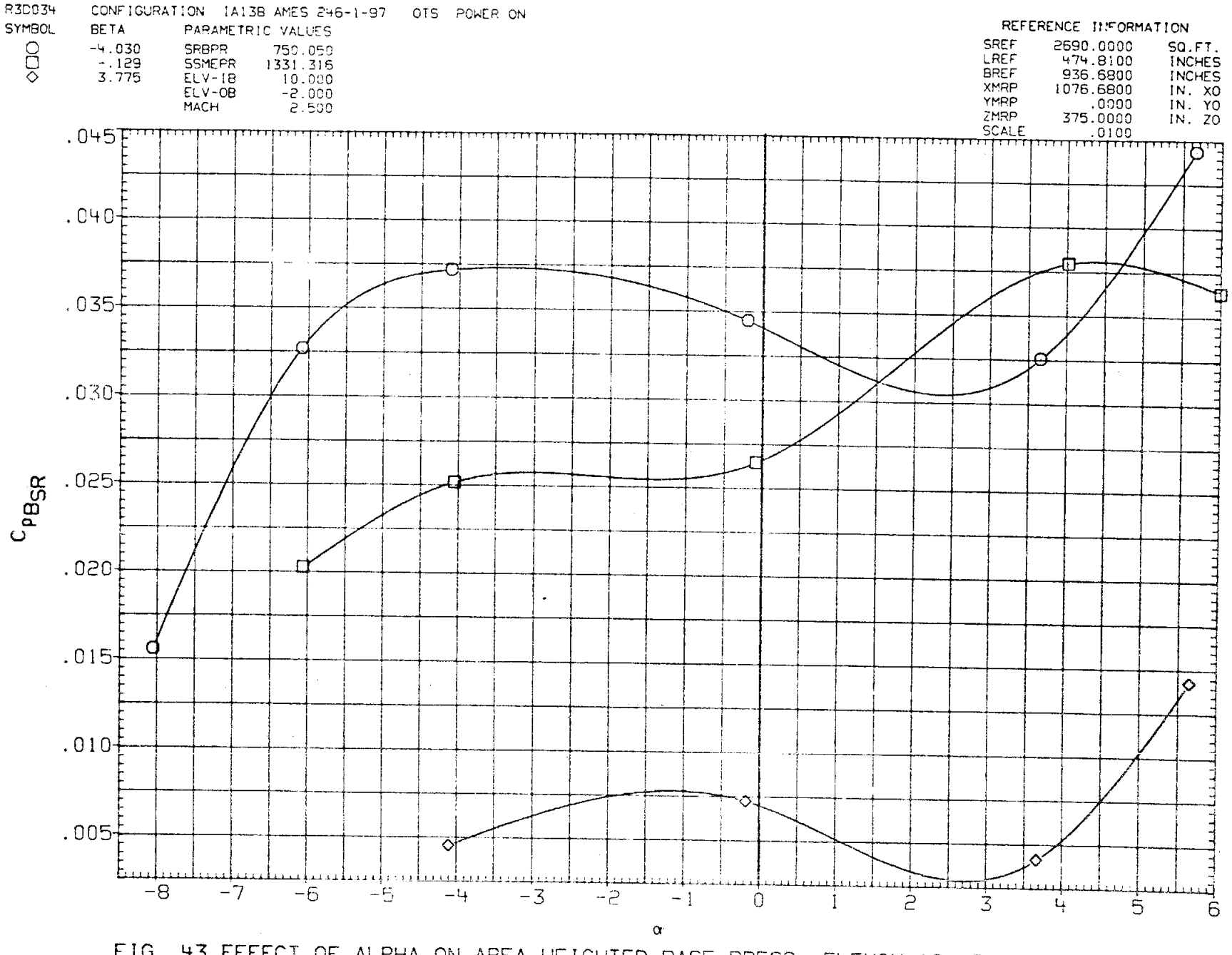

FIG. 43 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-2 MACH=2.5

DATE 17 OCT 78

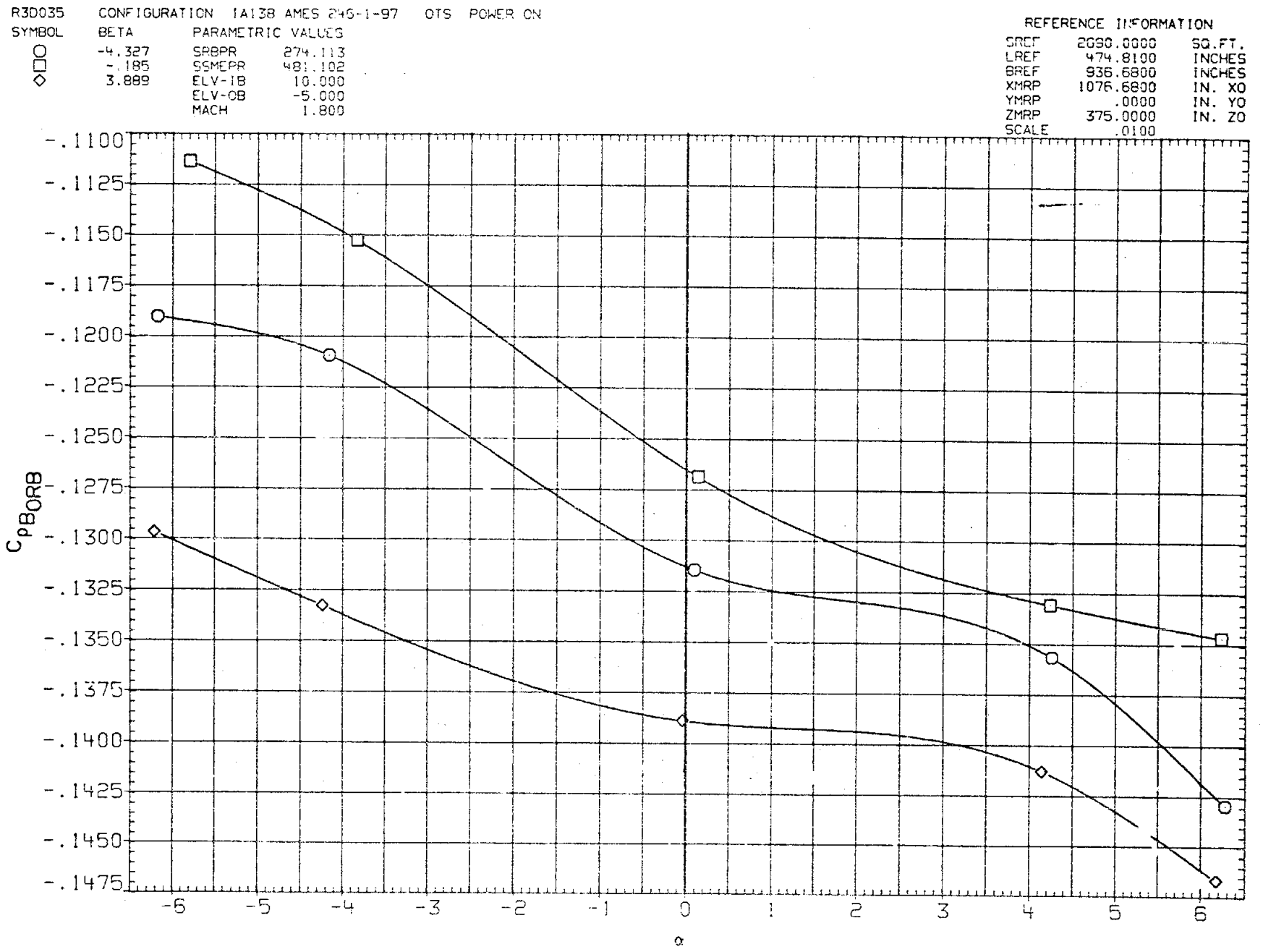

FIG. 44 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=1.8

DATE 17 OCT 78

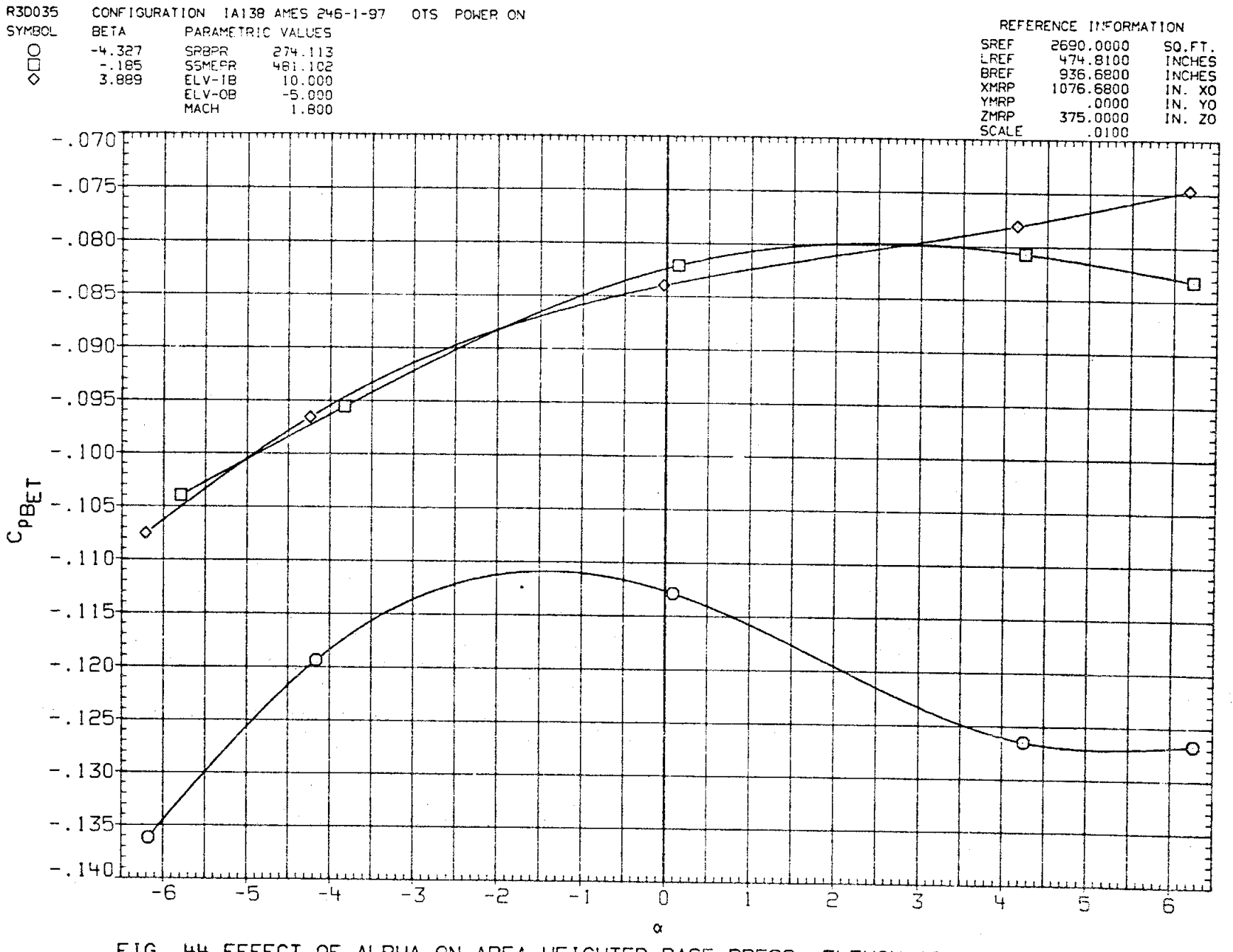

FIG. 44 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=1.8

DATE 17 OCT 78

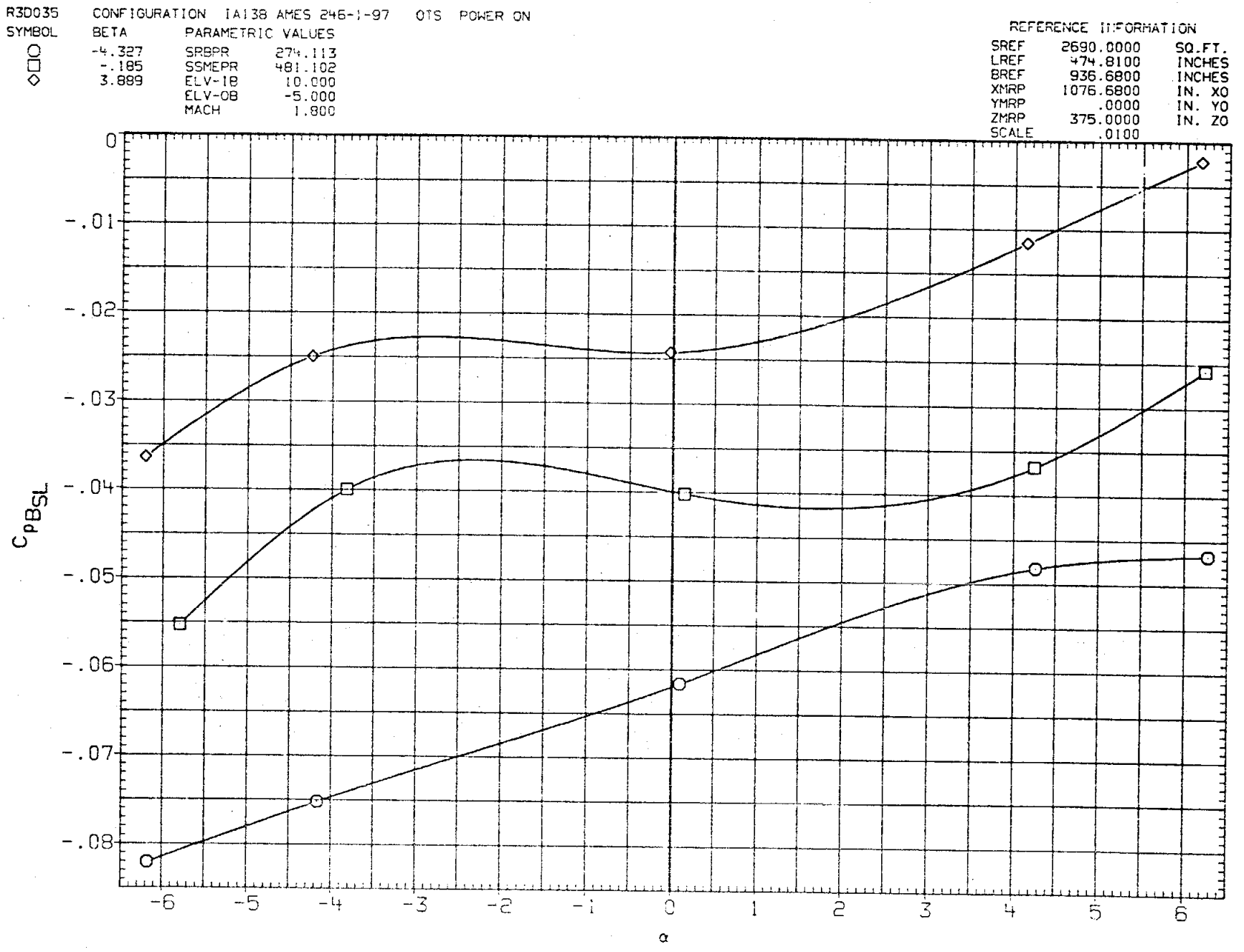

FIG. 44 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=1.8

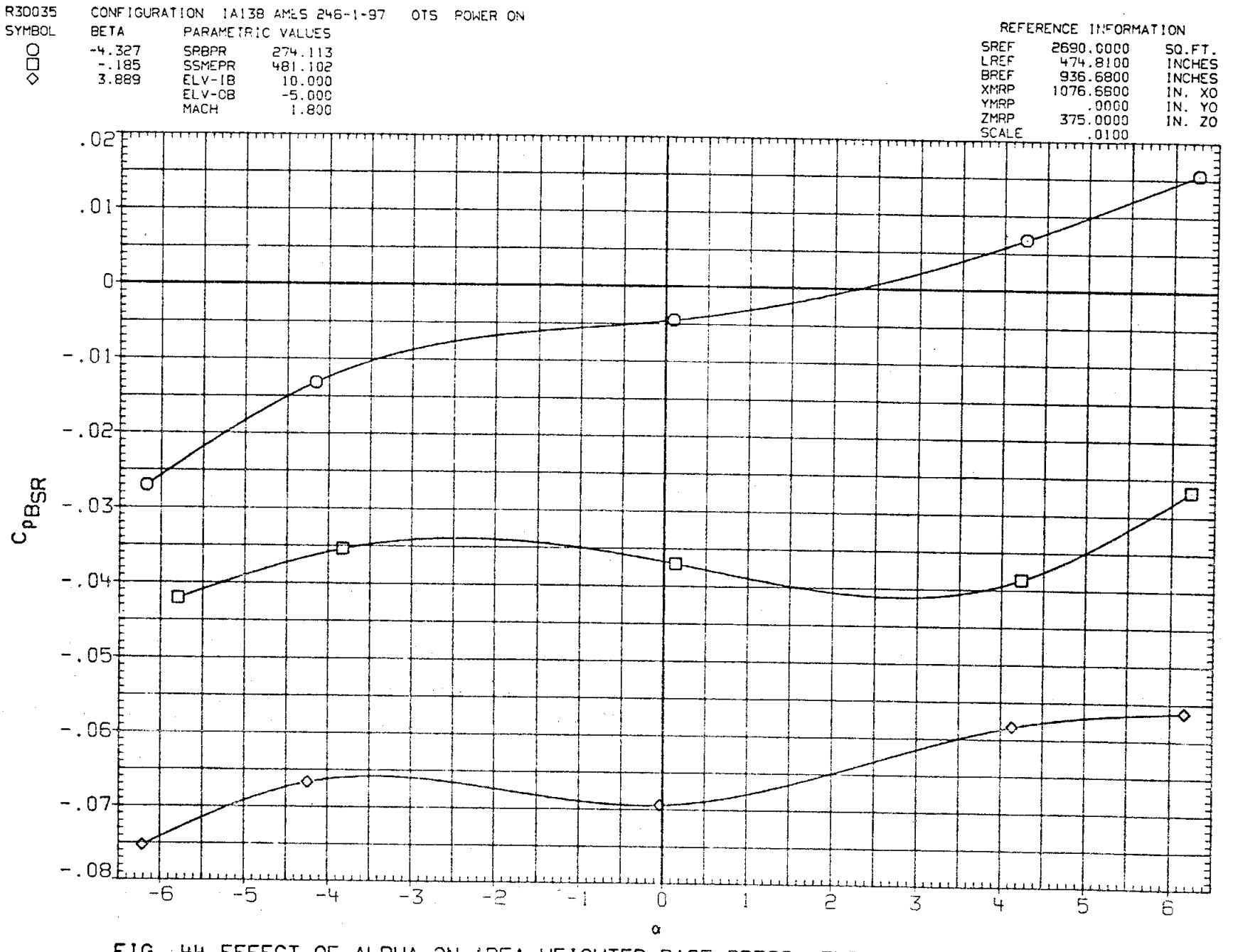

FIG. 44 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=1.8

DATE 17 OCT 78

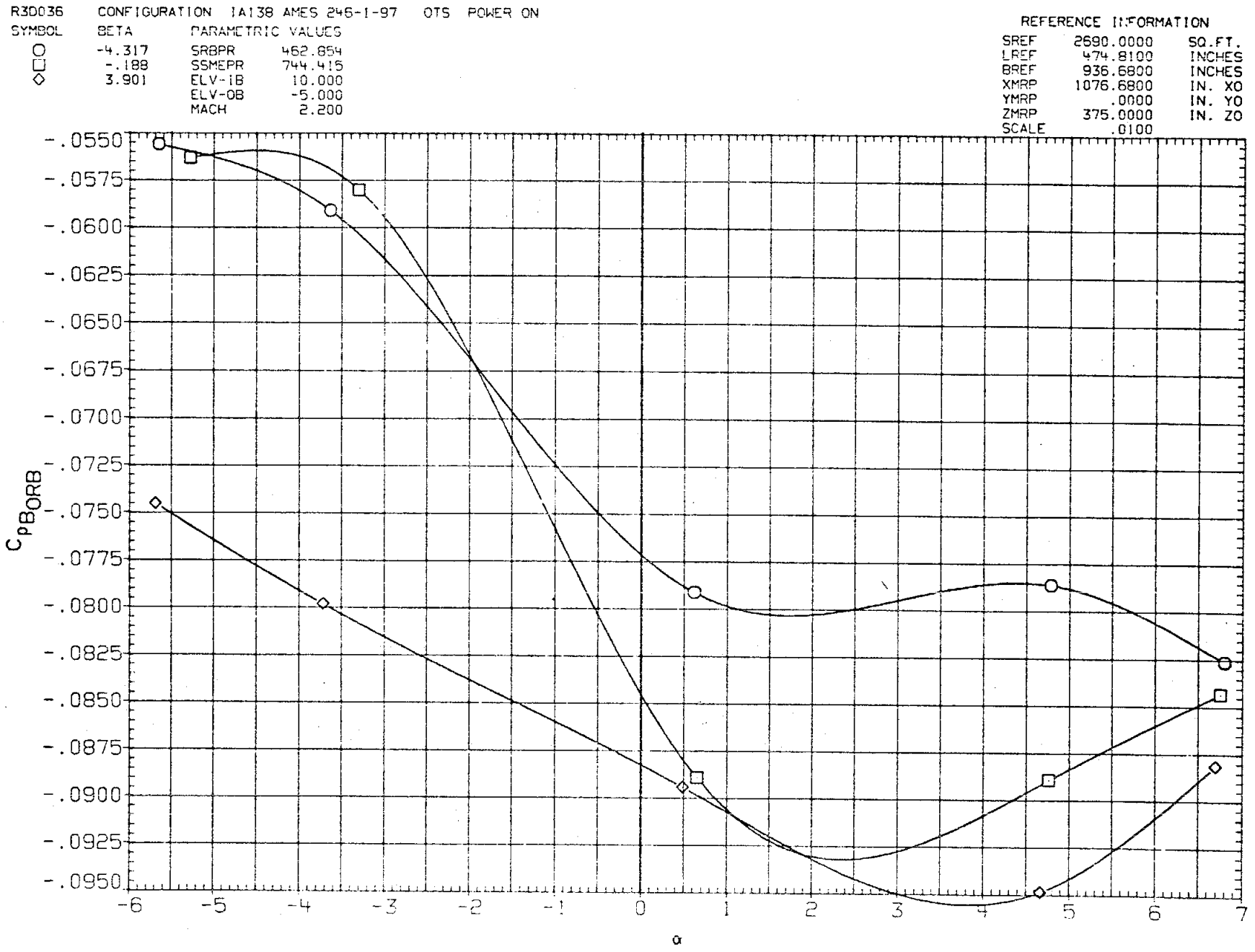

FIG. 45 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.2

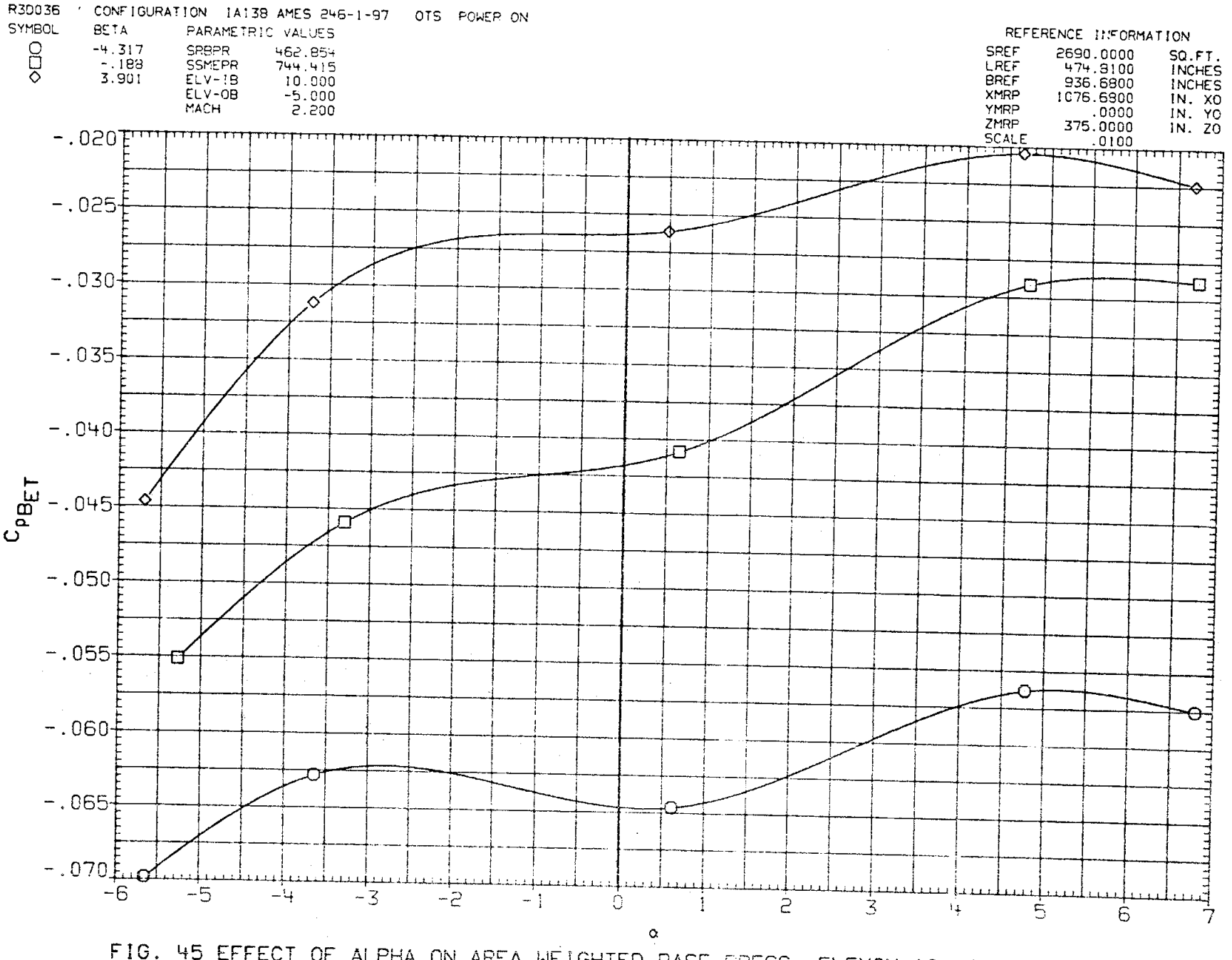

FIG. 45 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.2

R3D036 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
◇□○	-4.317	SRBPR	462.854
	-.188	SSMEPR	744.415
	3.901	ELV-IB	10.000
		ELV-OB	-5.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

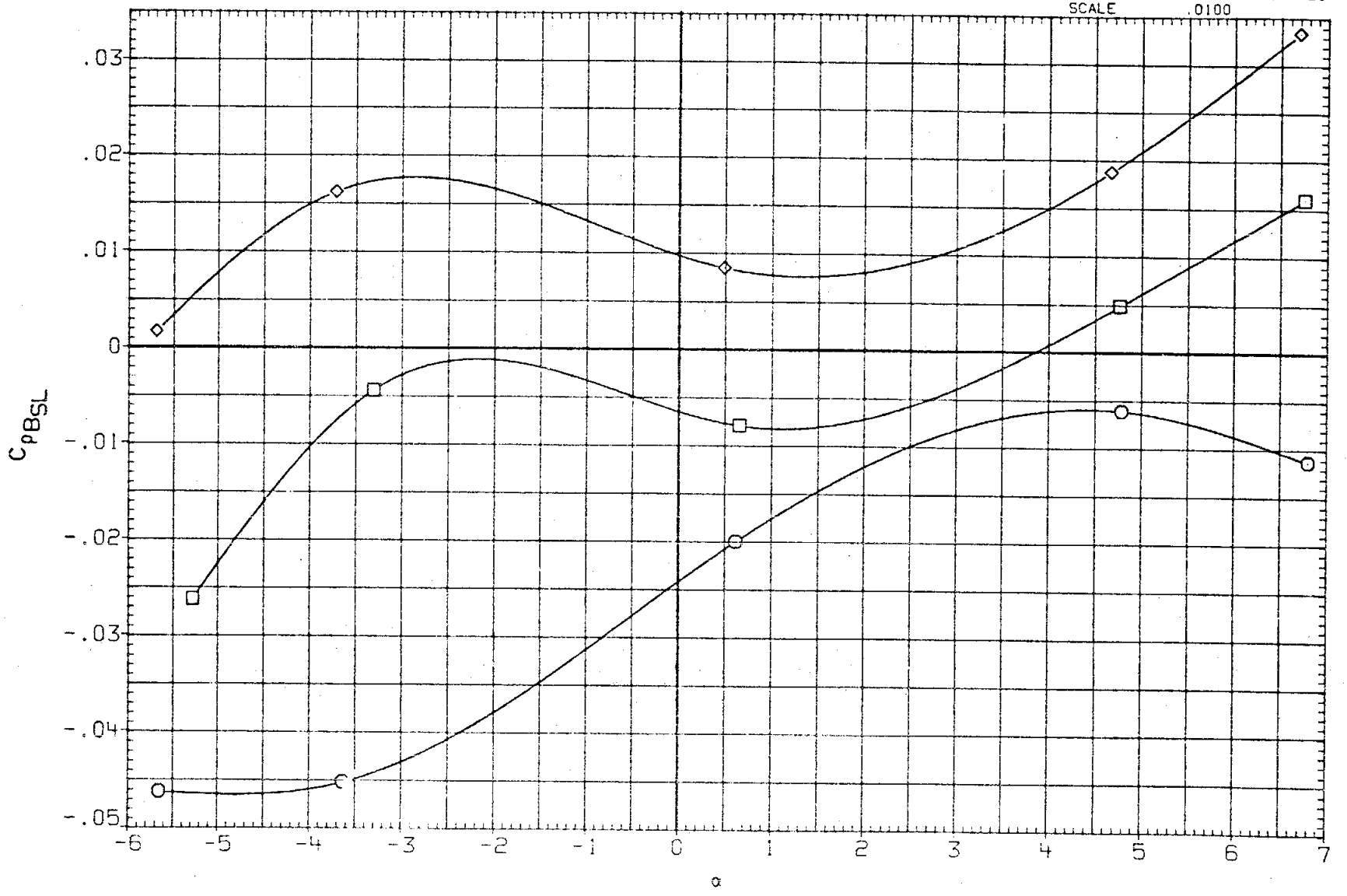

FIG. 45 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS..ELEVON=10/-5 MACH=2.2

DATE 17 OCT 78

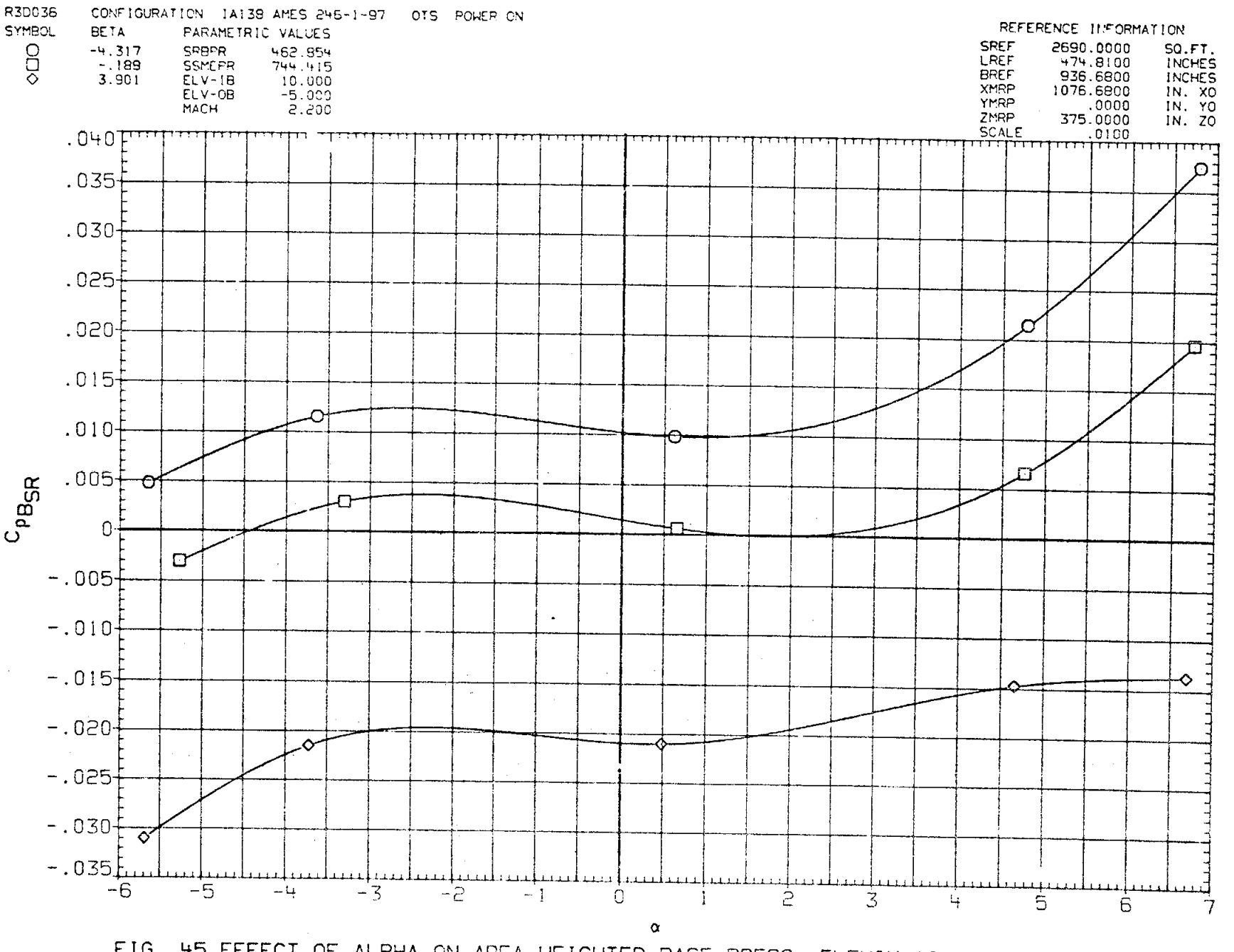

FIG. 45 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.2

DATE 17 OCT 78

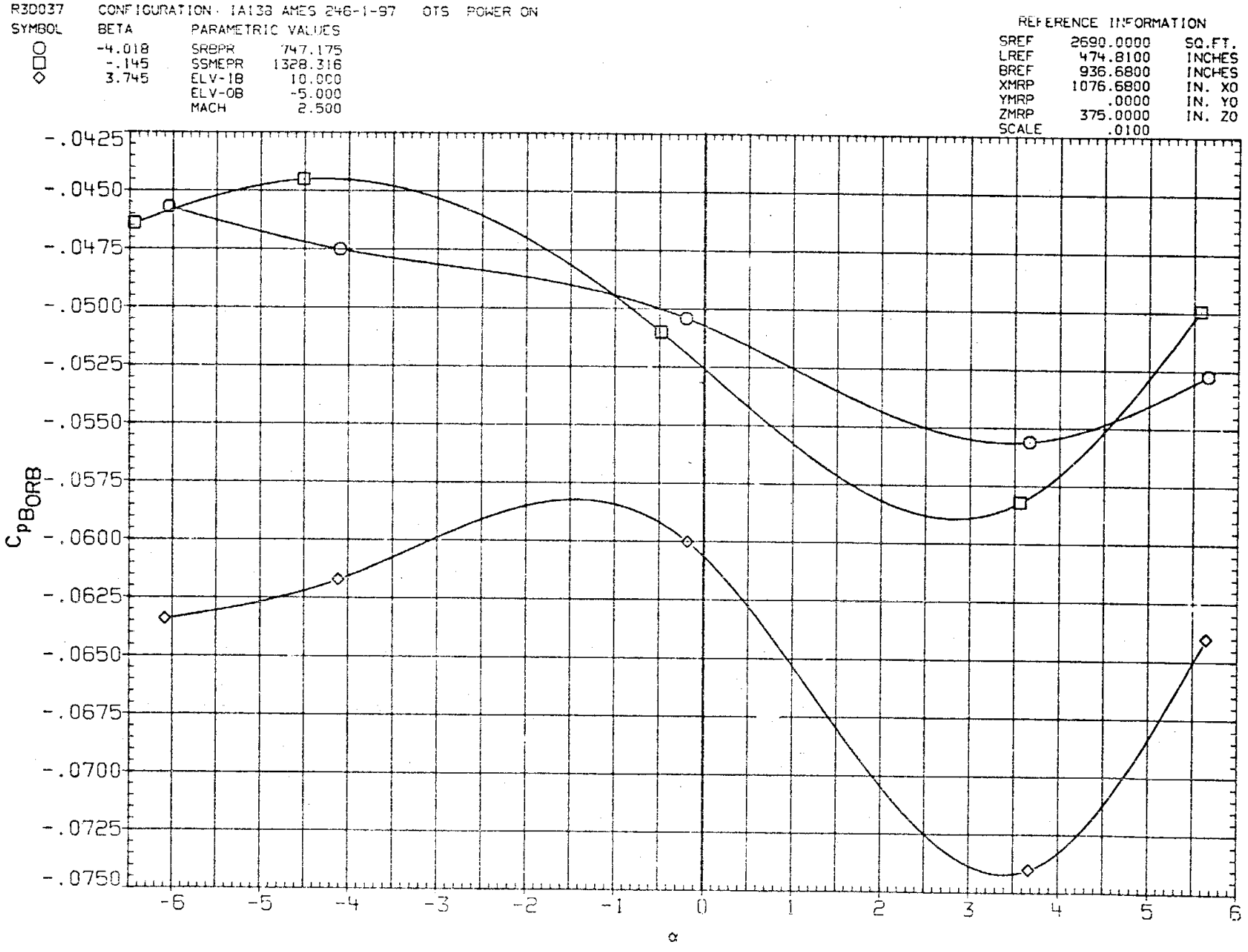

FIG. 46 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.5

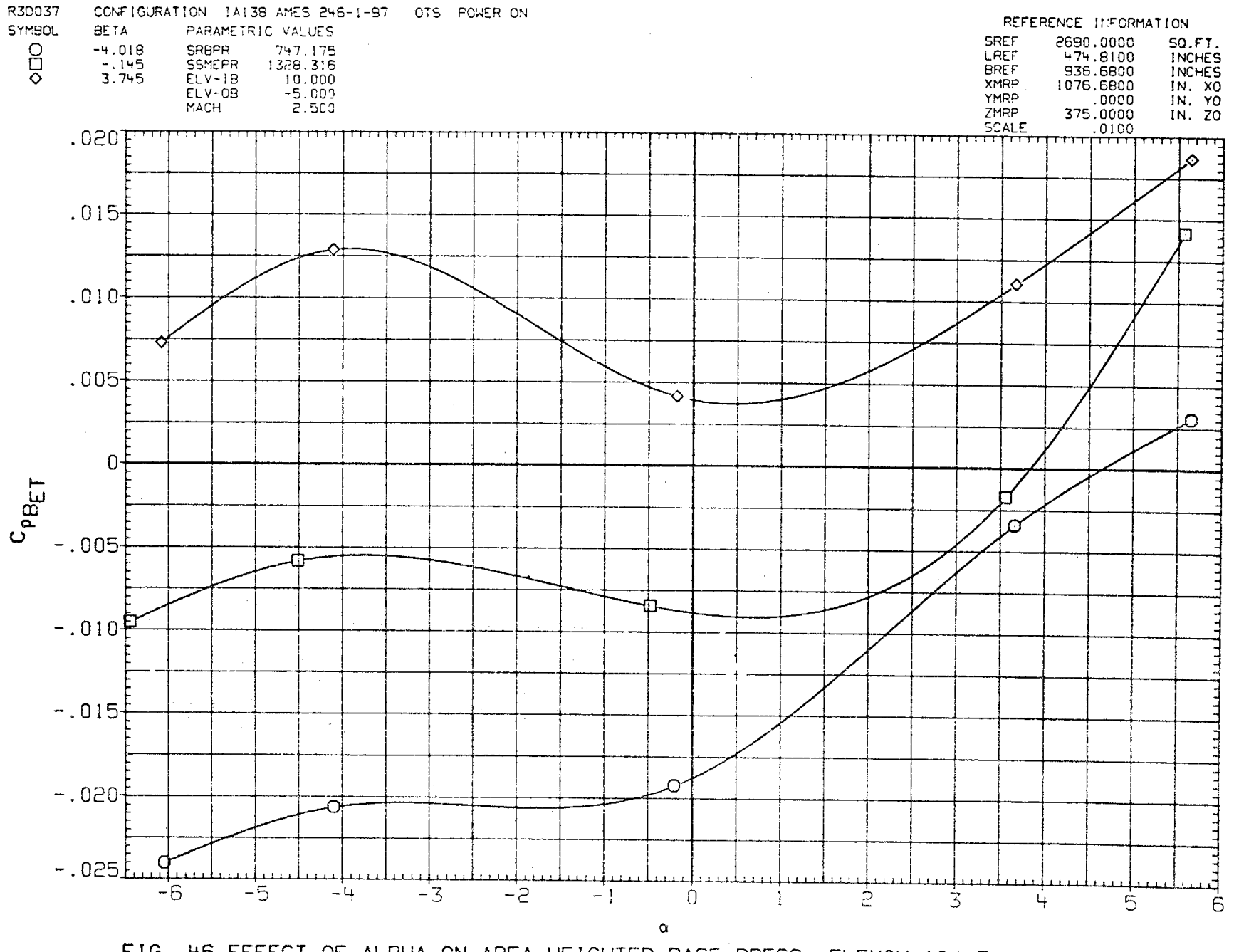

FIG. 46 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.5

DATE 17 OCT 78

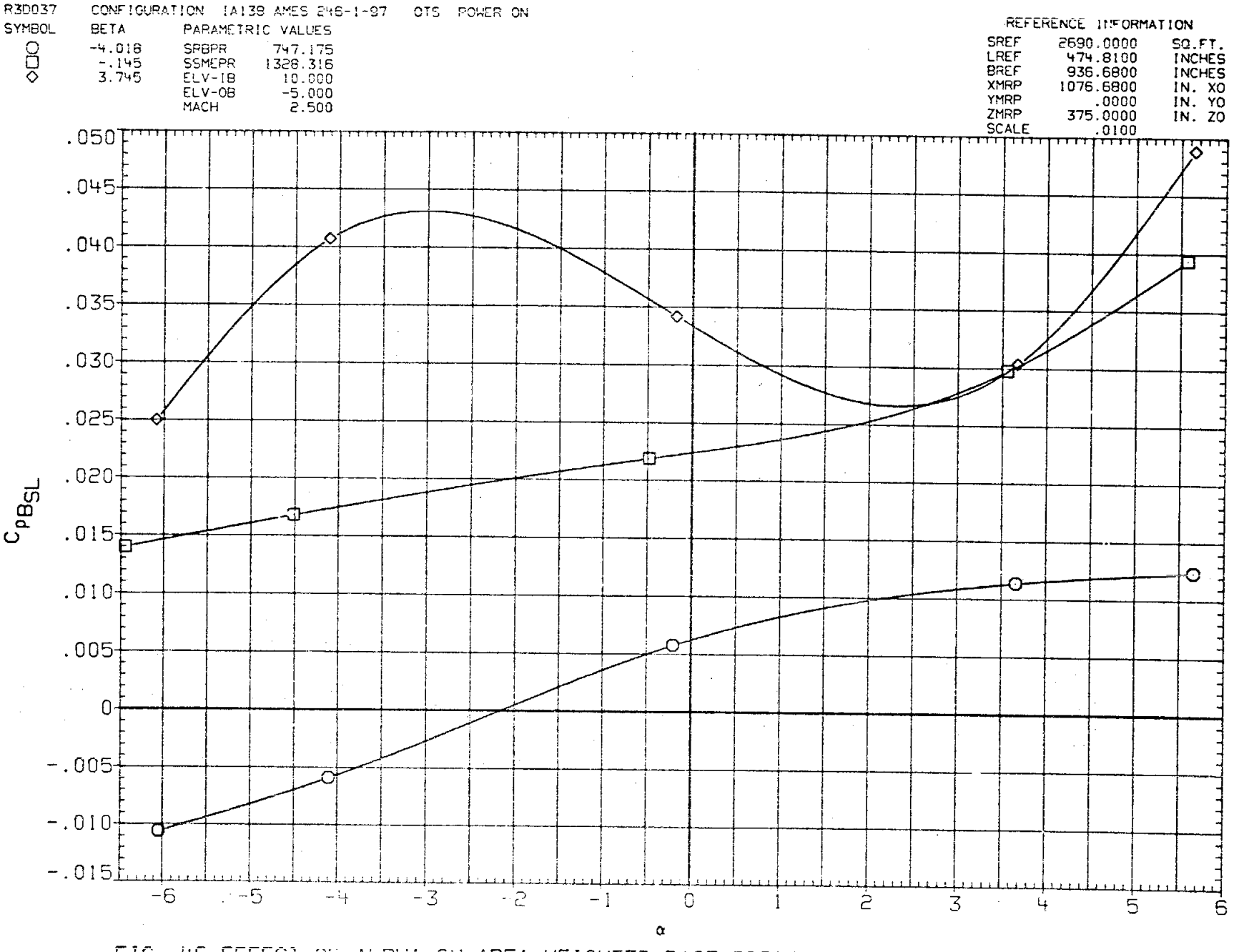

FIG. 46 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.5

DATE 17 OCT 78

R3D037 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.018
□	-.145
◇	3.745

PARAMETRIC VALUES

SRBPR	747.175
SSMEPR	1328.316
ELV-IB	10.000
ELV-OB	-5.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

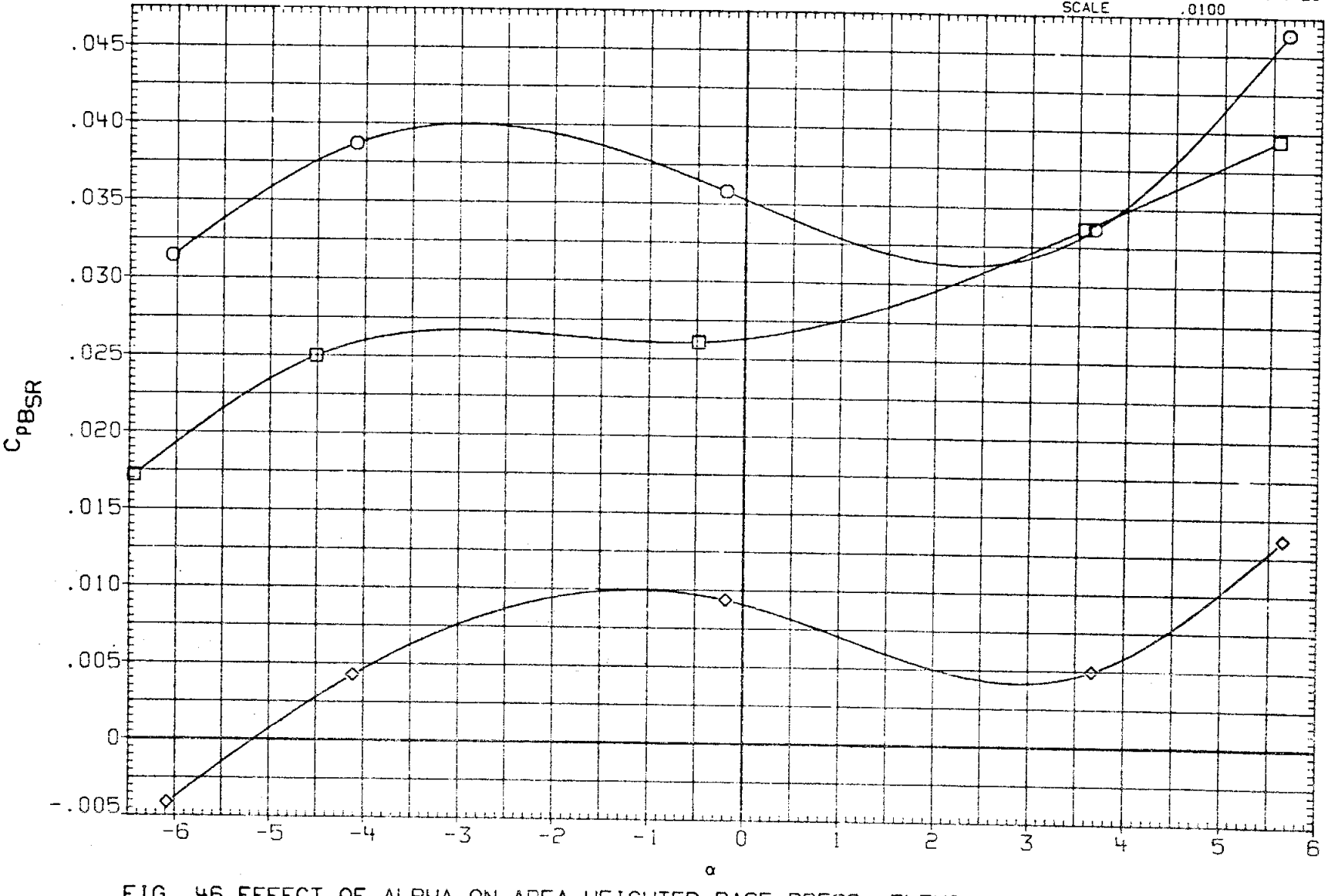

FIG. 46 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-5 MACH=2.5

DATE 17 OCT 78

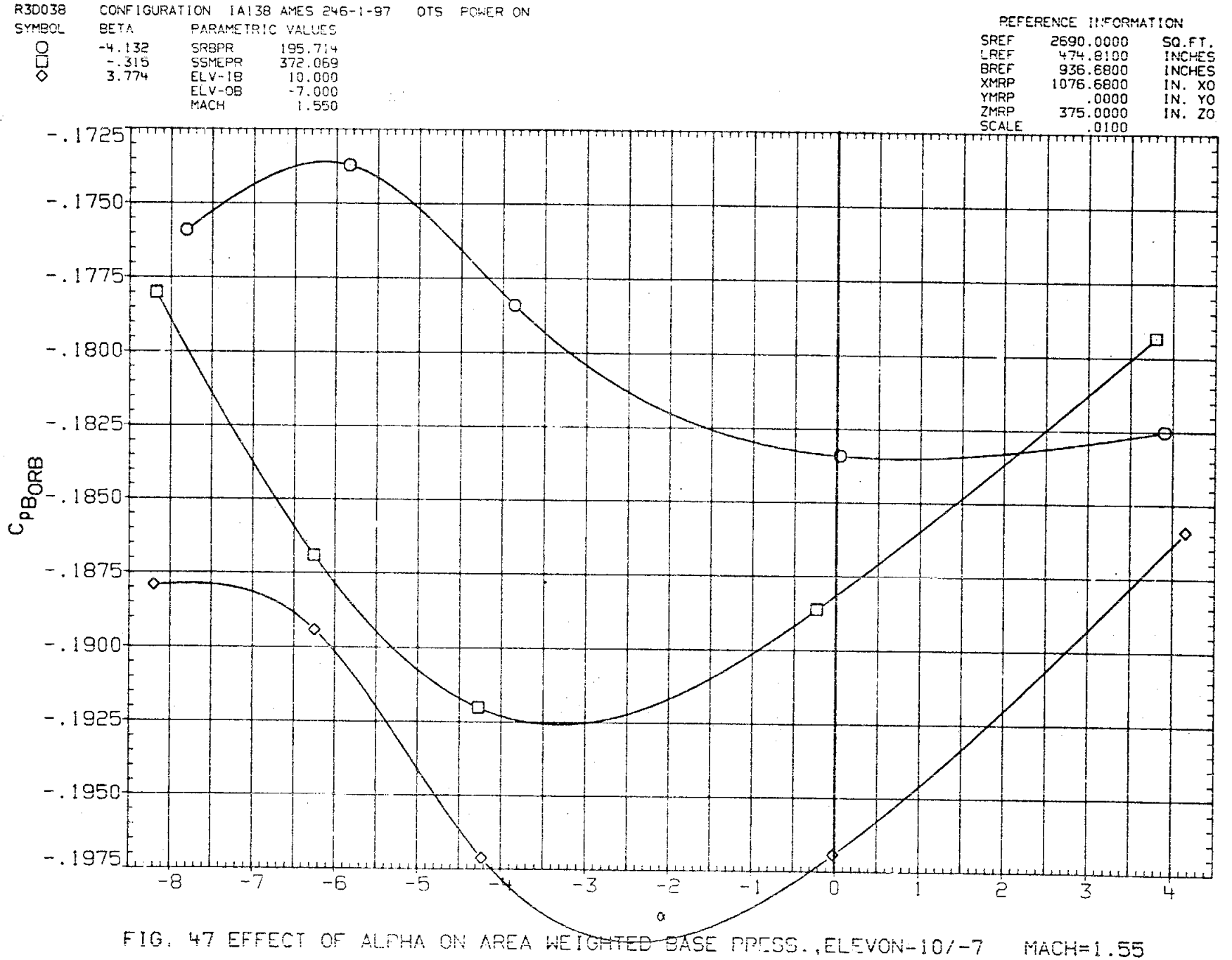

FIG. 47 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON-10/-7 MACH=1.55

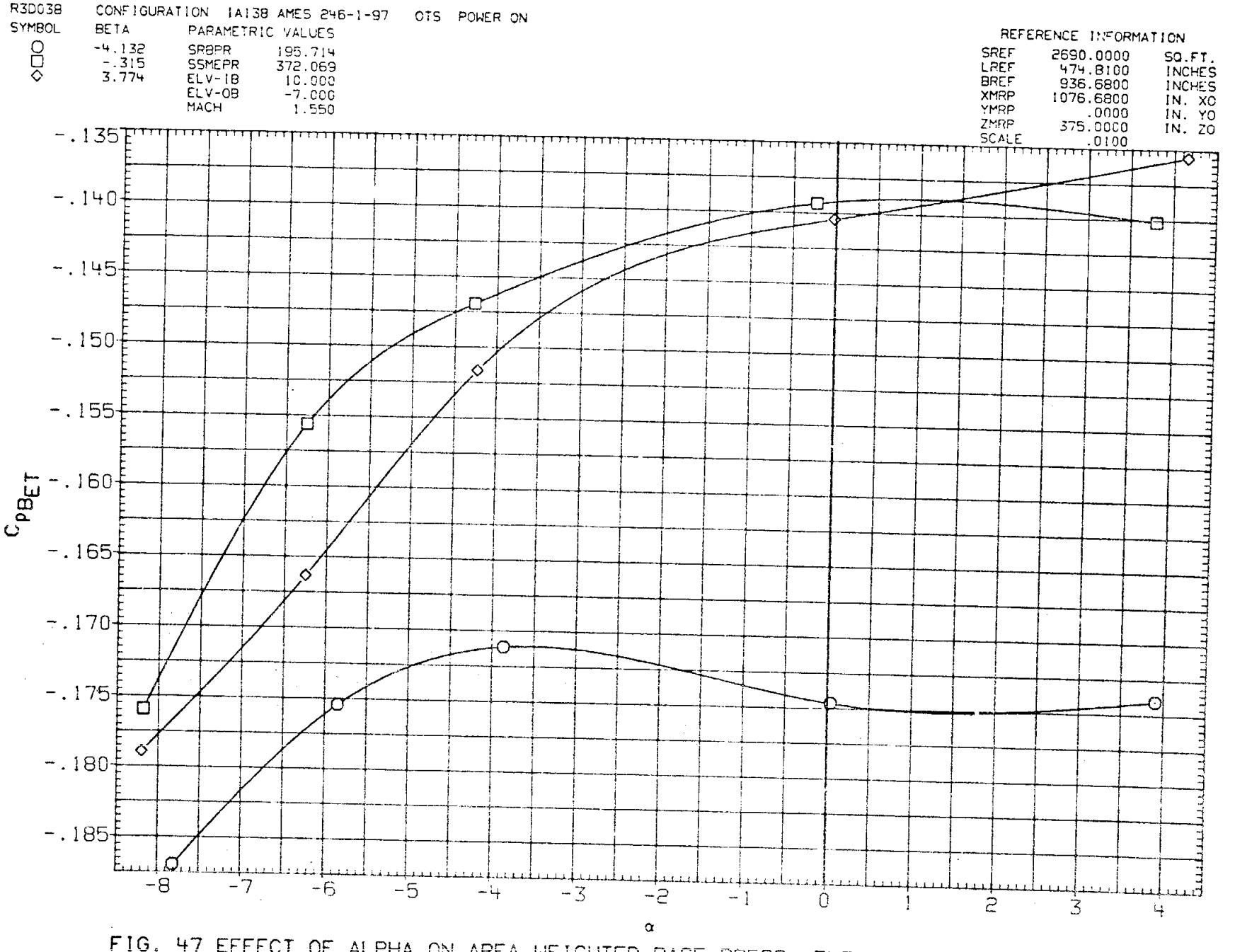

FIG. 47 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.55

DATE 17 OCT 78

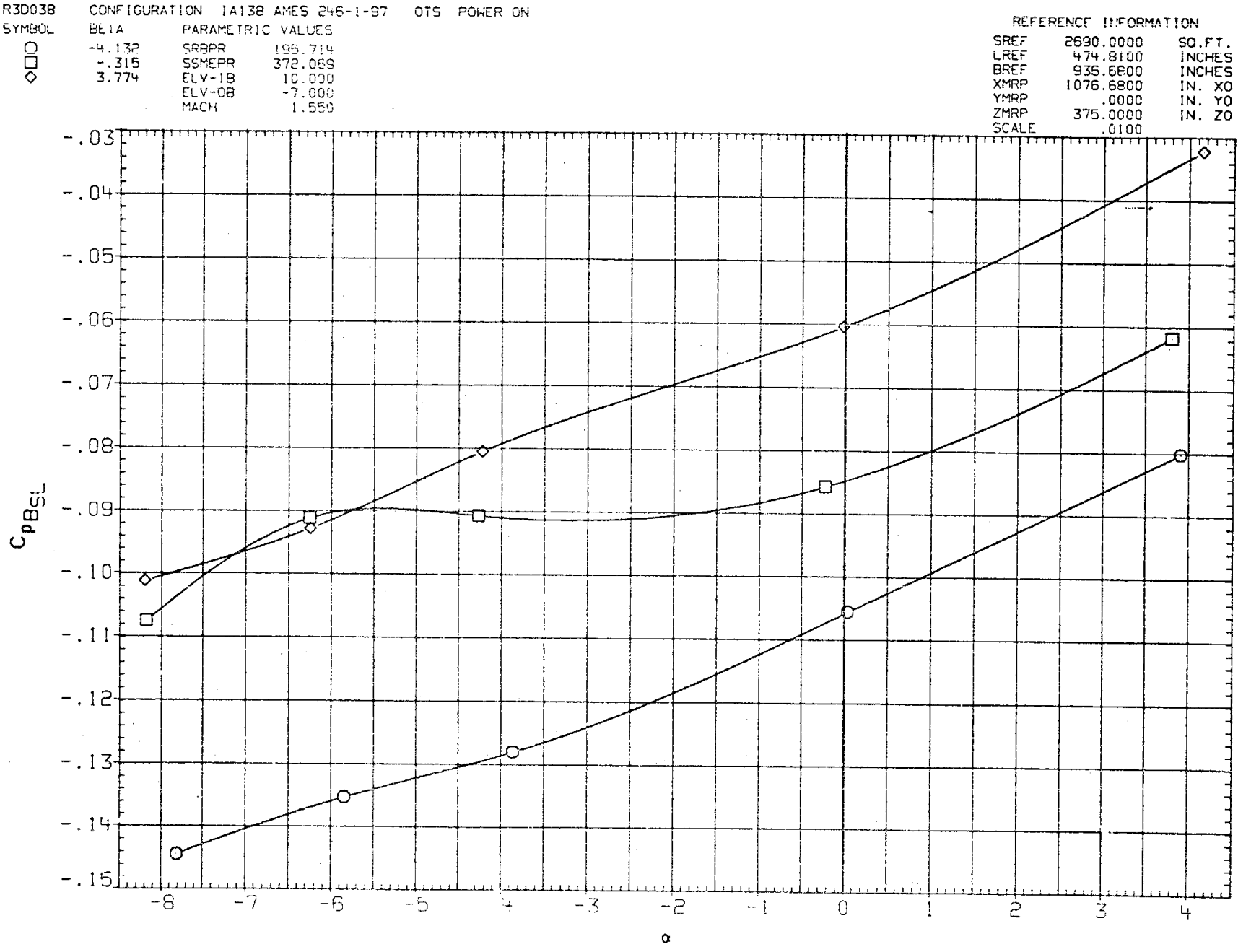

FIG. 47 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.55

DATE 17 OCT 78

R3D038 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.132
□	-.315
◇	3.774

PARAMETPIC VALUES

SRBPR	195.714
SSMEPR	372.069
ELV-IB	10.000
ELV-OB	-7.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

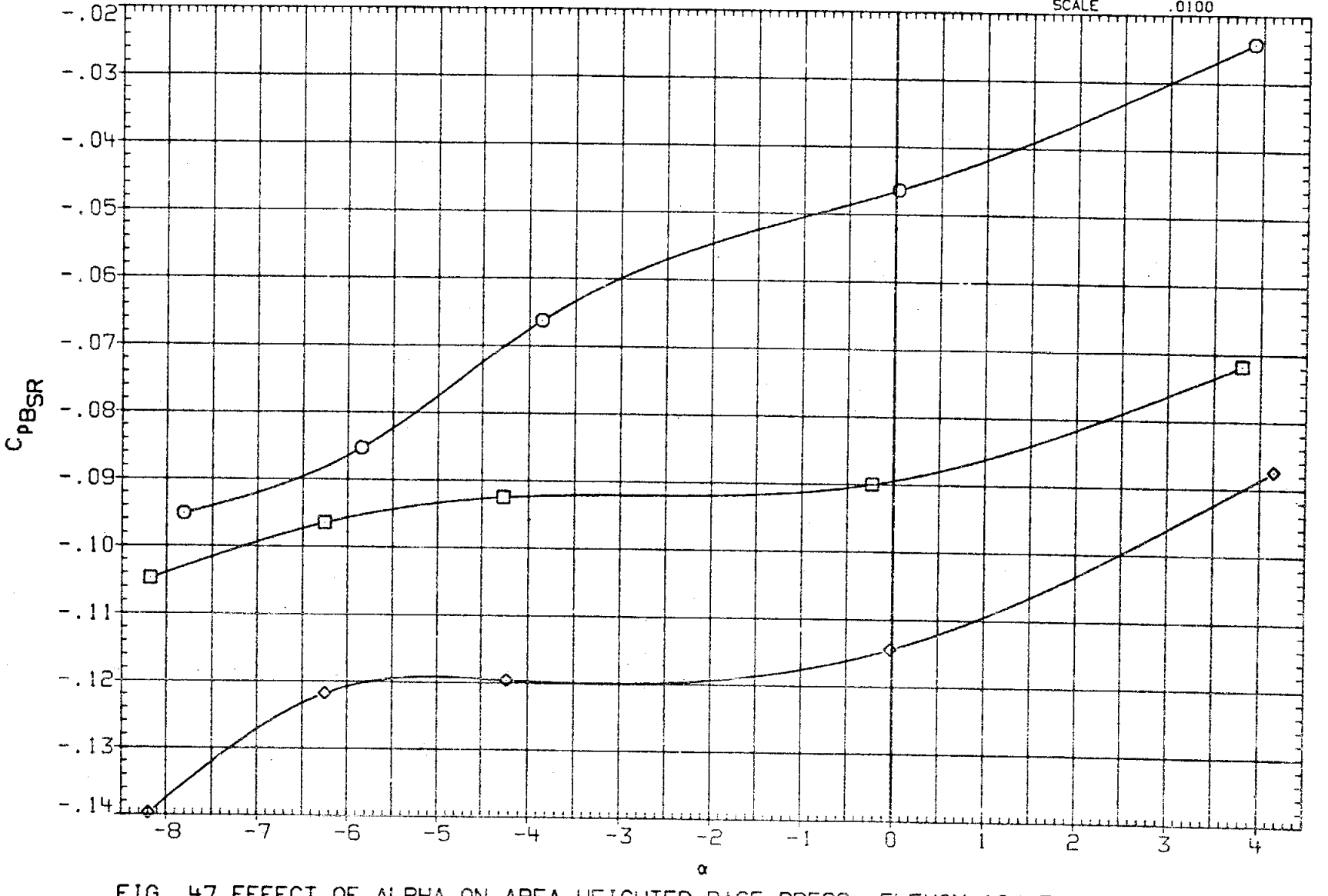

FIG. 47 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.55

DATE 17 OCT 78

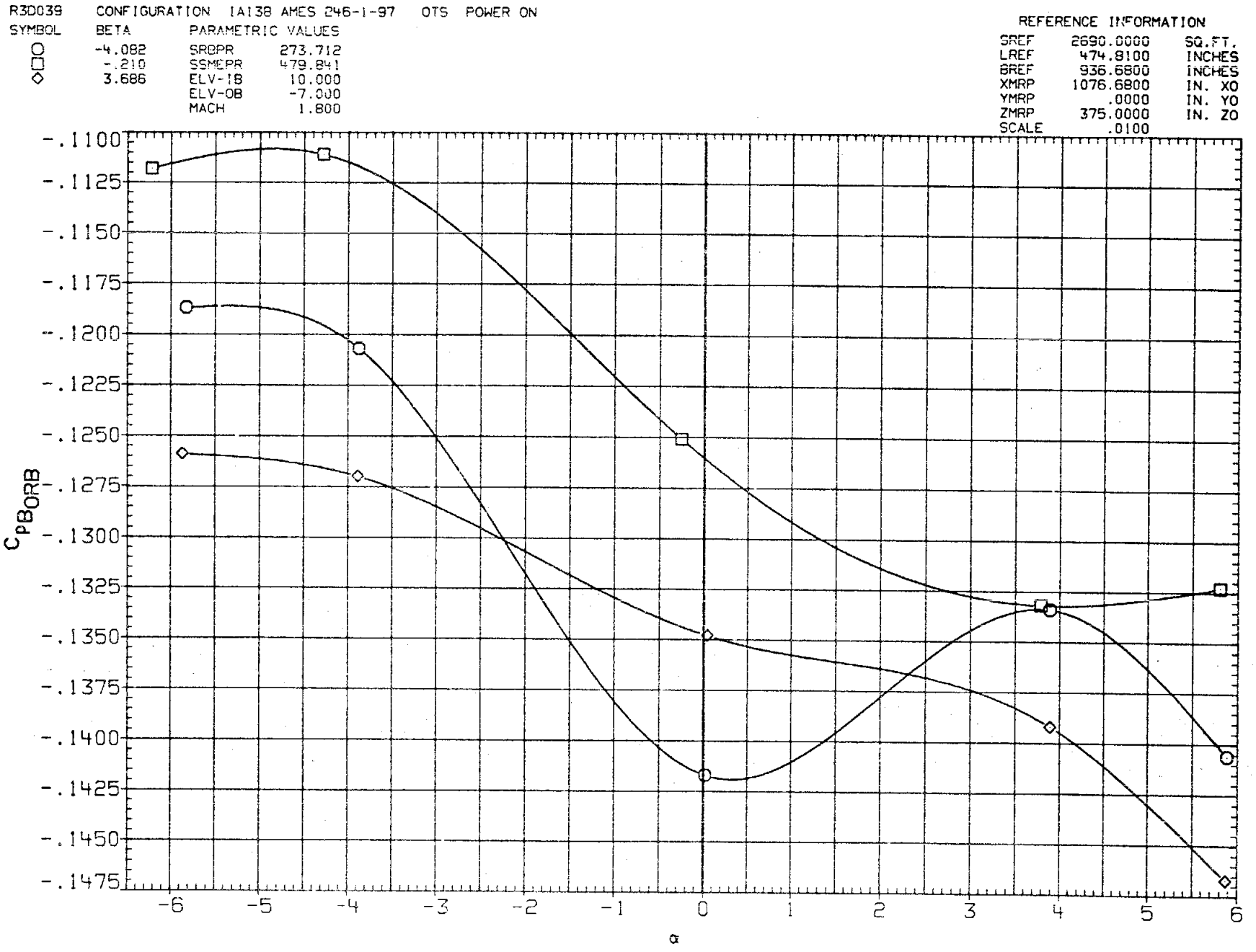

FIG. 48 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.8

DATE 17 OCT 78

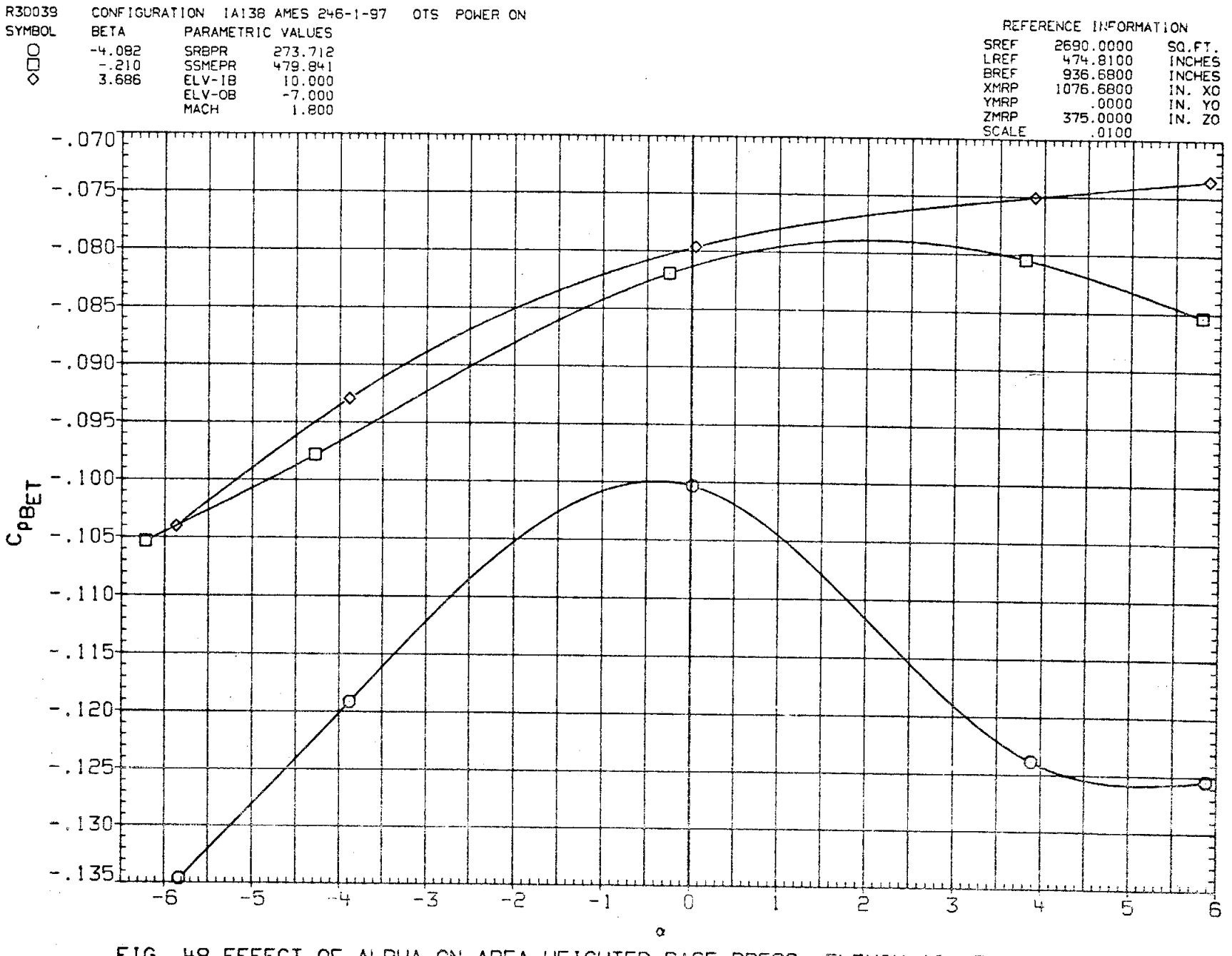

FIG. 48 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.8

DATE 17 OCT 78

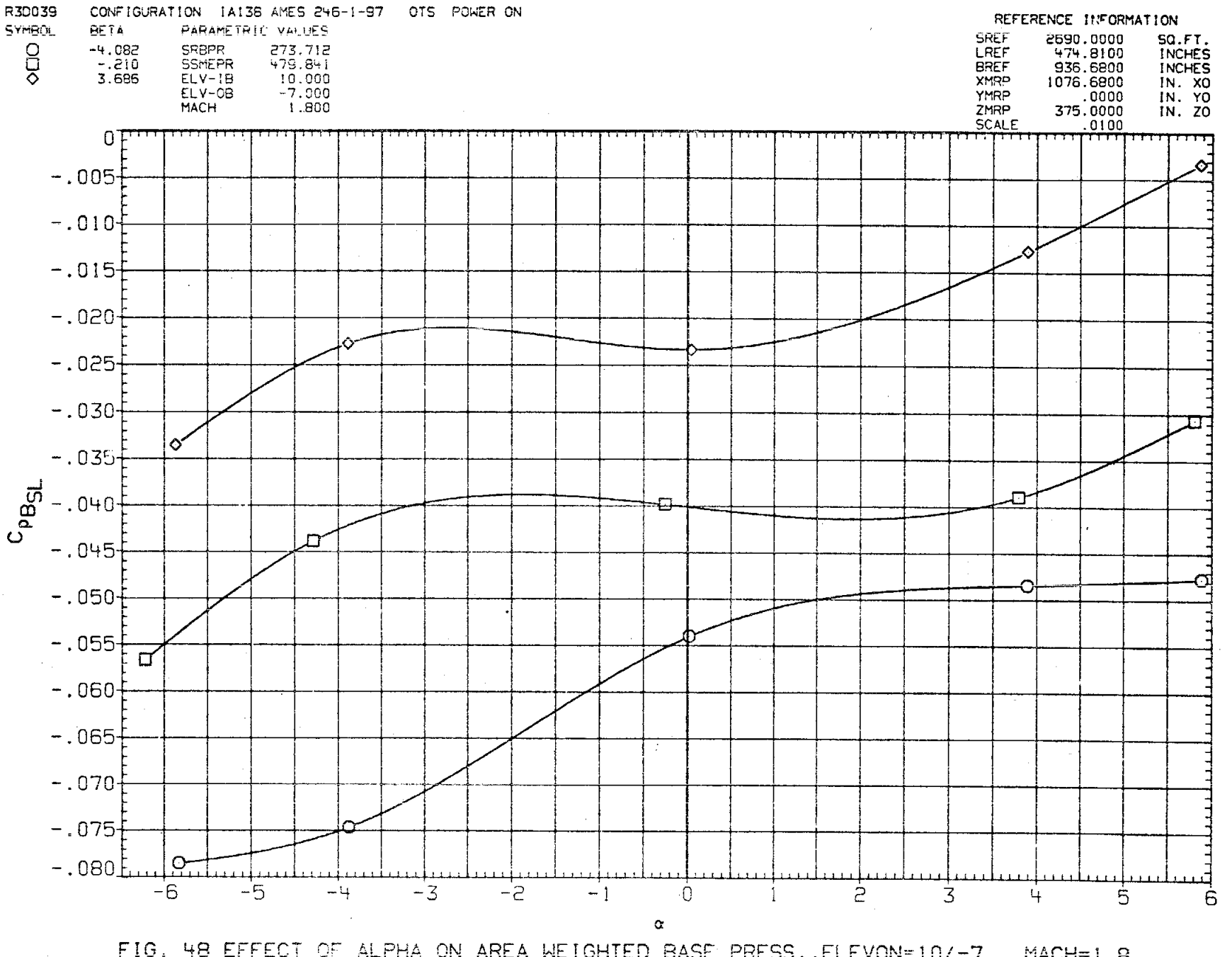

FIG. 48 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.8

R30039 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.082	SRBPR	273.712
□	-.210	SSMEPR	479.841
◇	3.686	ELV-IB	10.000
		ELV-OB	-7.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

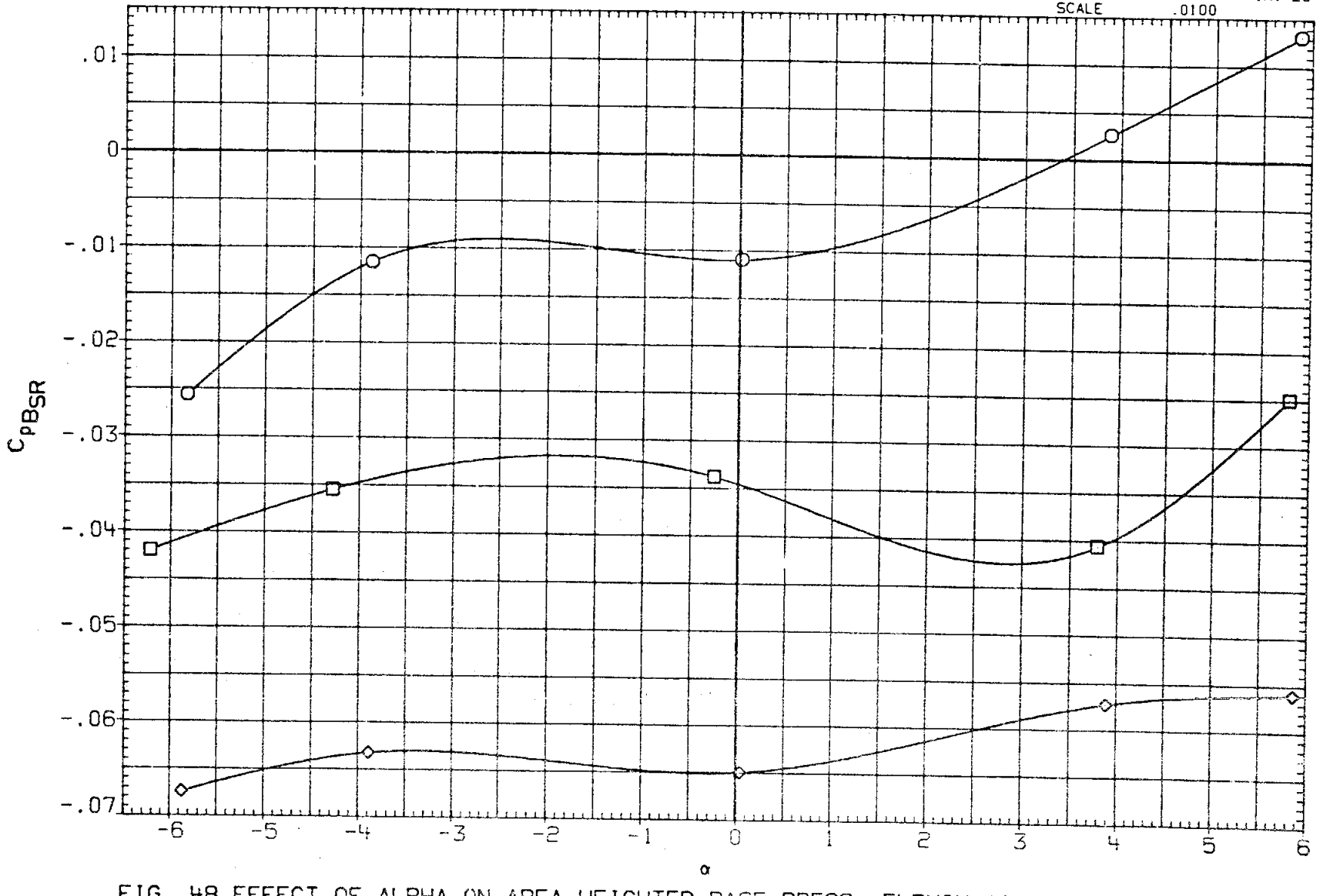

FIG. 48 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=1.8

DATE 17 OCT 78

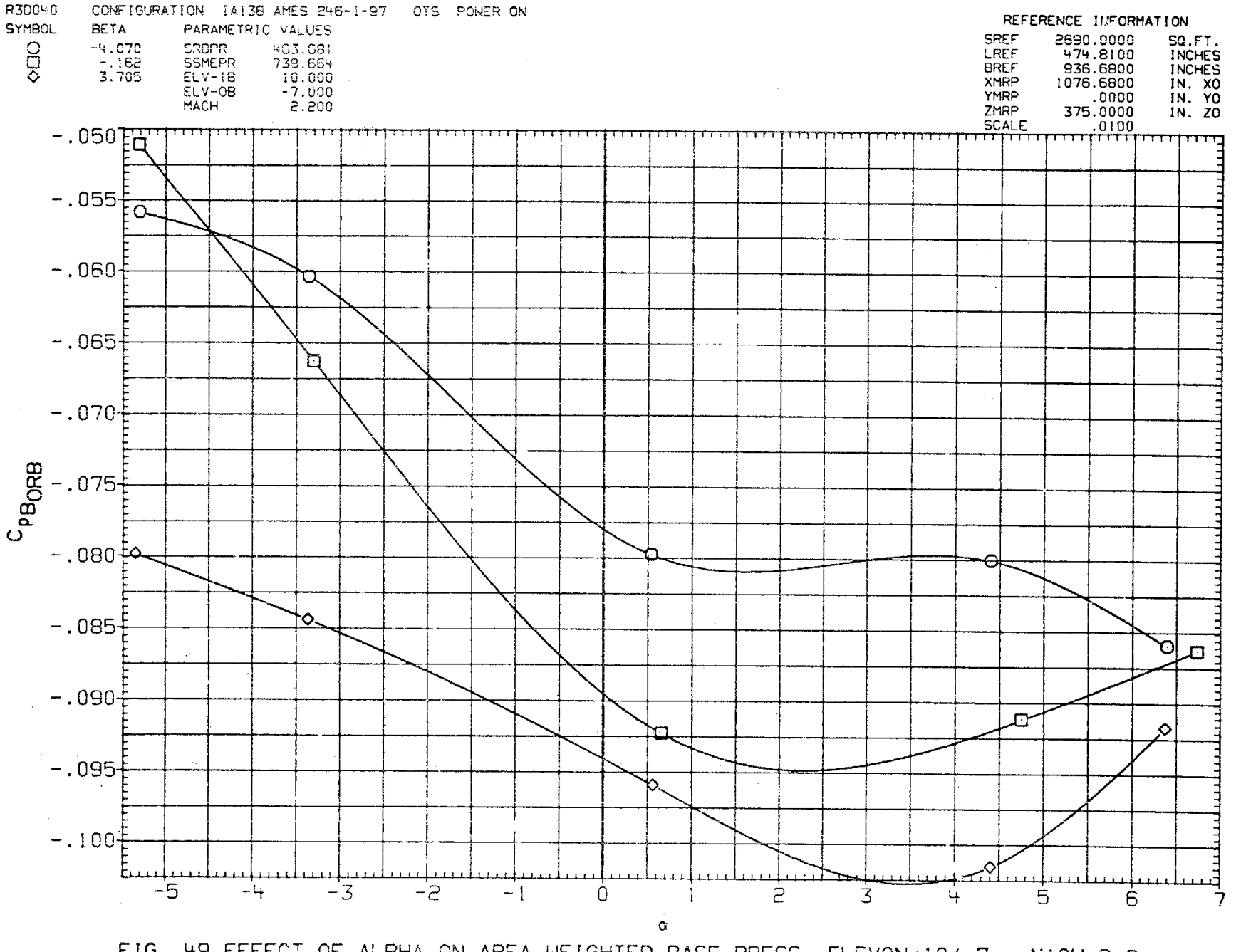

FIG. 49 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=2.2

DATE 17 OCT 78

R3D040 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.070
□	-.162
◇	3.705

PARAMETRIC VALUES

SRBPR	463.681
SSMEPR	738.664
ELV-IB	10.000
ELV-OB	-7.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

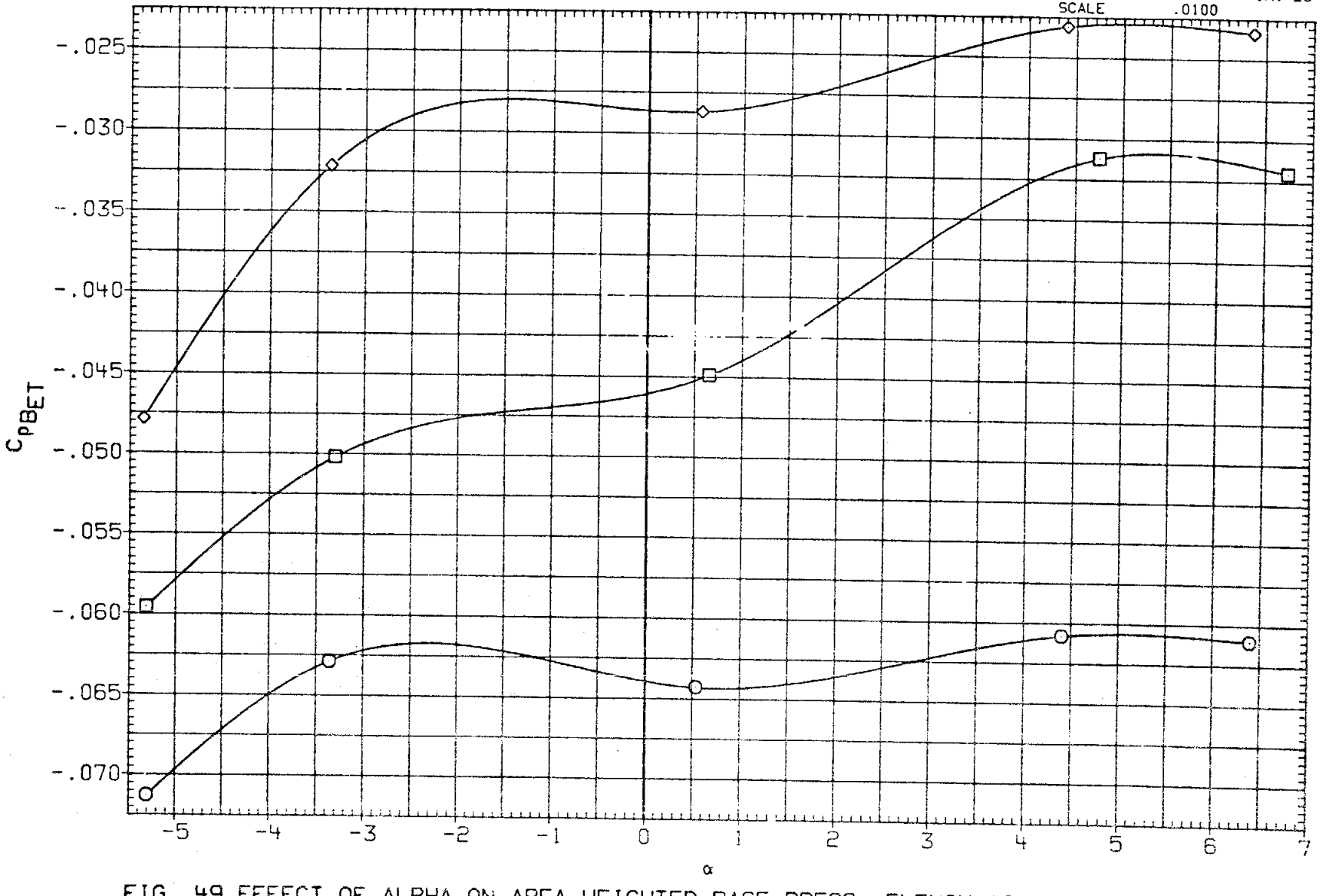

FIG. 49 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=2.2

DATE 17 OCT 78

R3D040 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC	VALUES
□	-4.070	SRBPR	463.681
◇	-.162	SSMEPR	738.664
	3.705	ELV-IB	10.000
		ELV-OB	-7.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

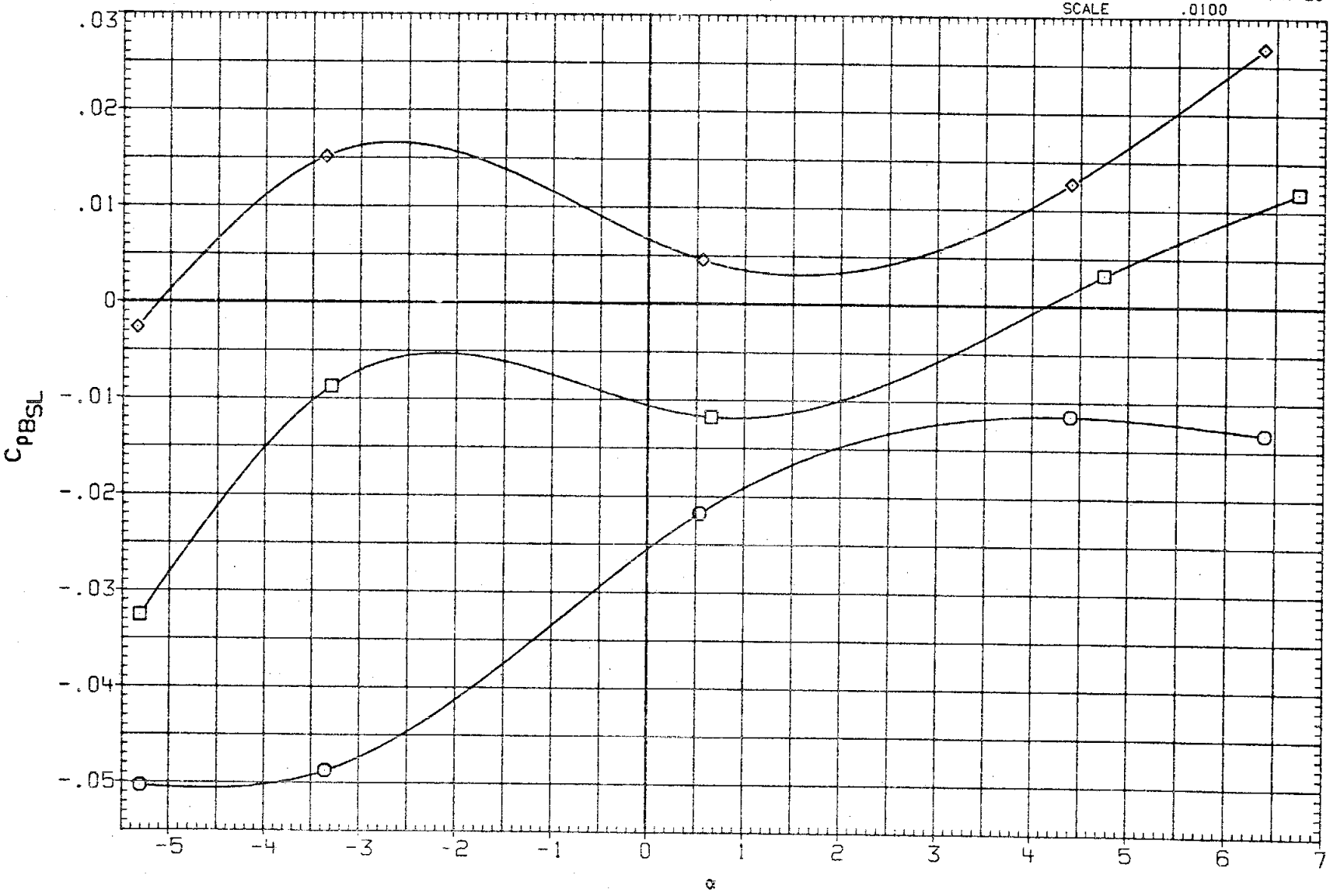

FIG. 49 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS., ELEVON=10/-7 MACH=2.2

DATE 17 OCT 78

R3D040 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.070
□	-.162
◇	3.705

PARAMETRIC VALUES

SRBPR	463.681
SSMEPR	738.664
ELV-IB	10.000
ELV-OB	-7.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

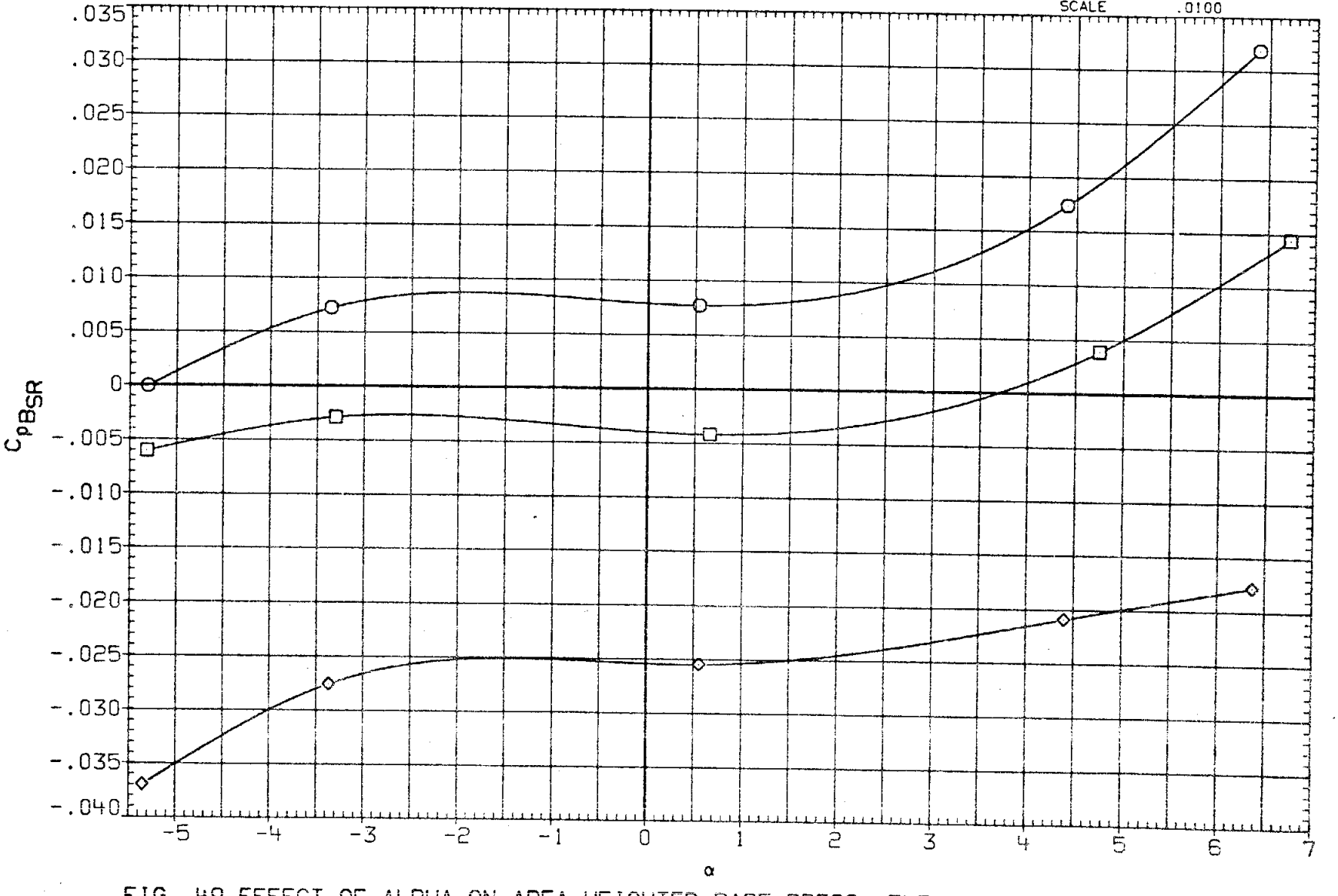

FIG. 49 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/-7 MACH=2.2

DATE 17 OCT 78

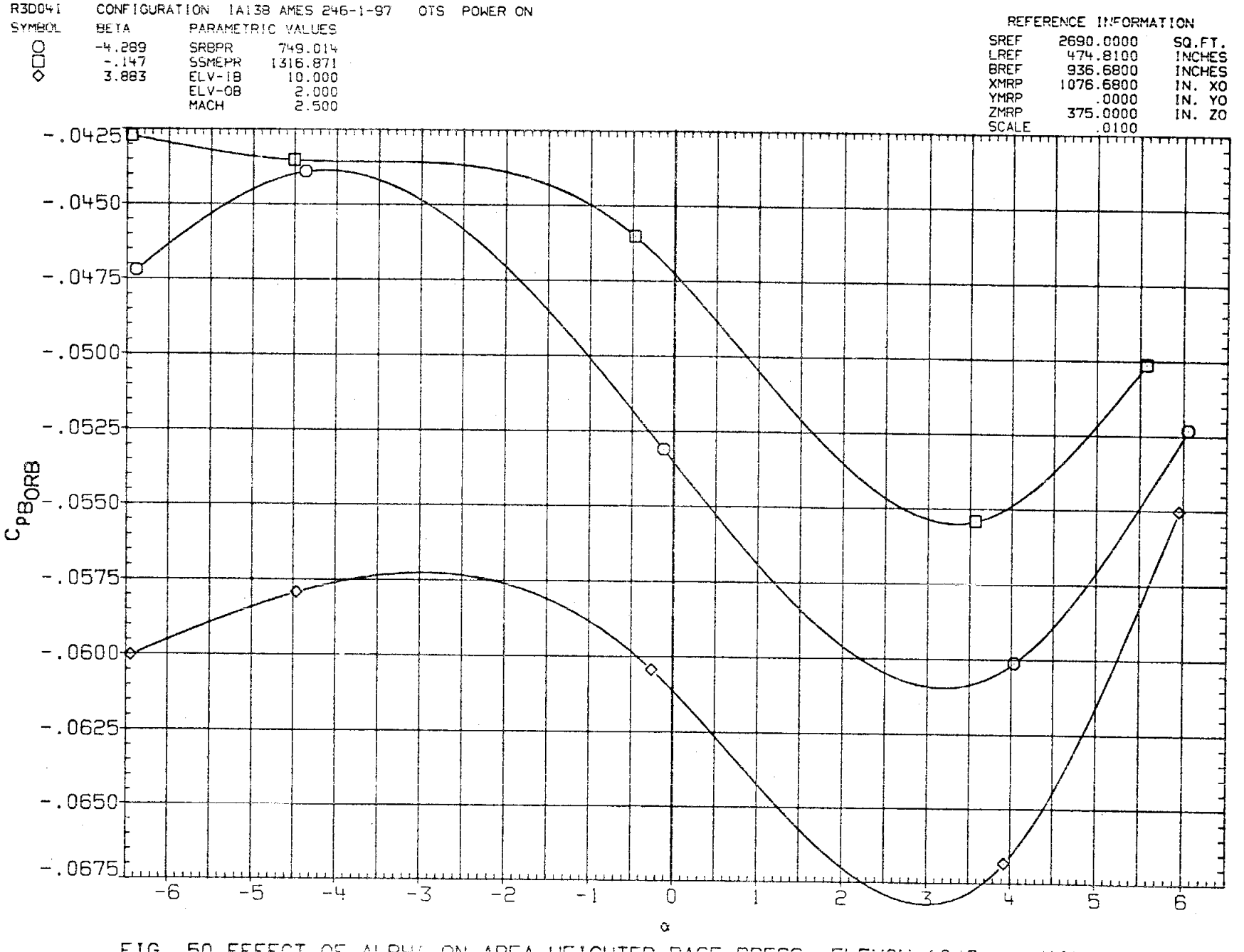

FIG. 50 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/2 MACH=2.5

DATE 17 OCT 78

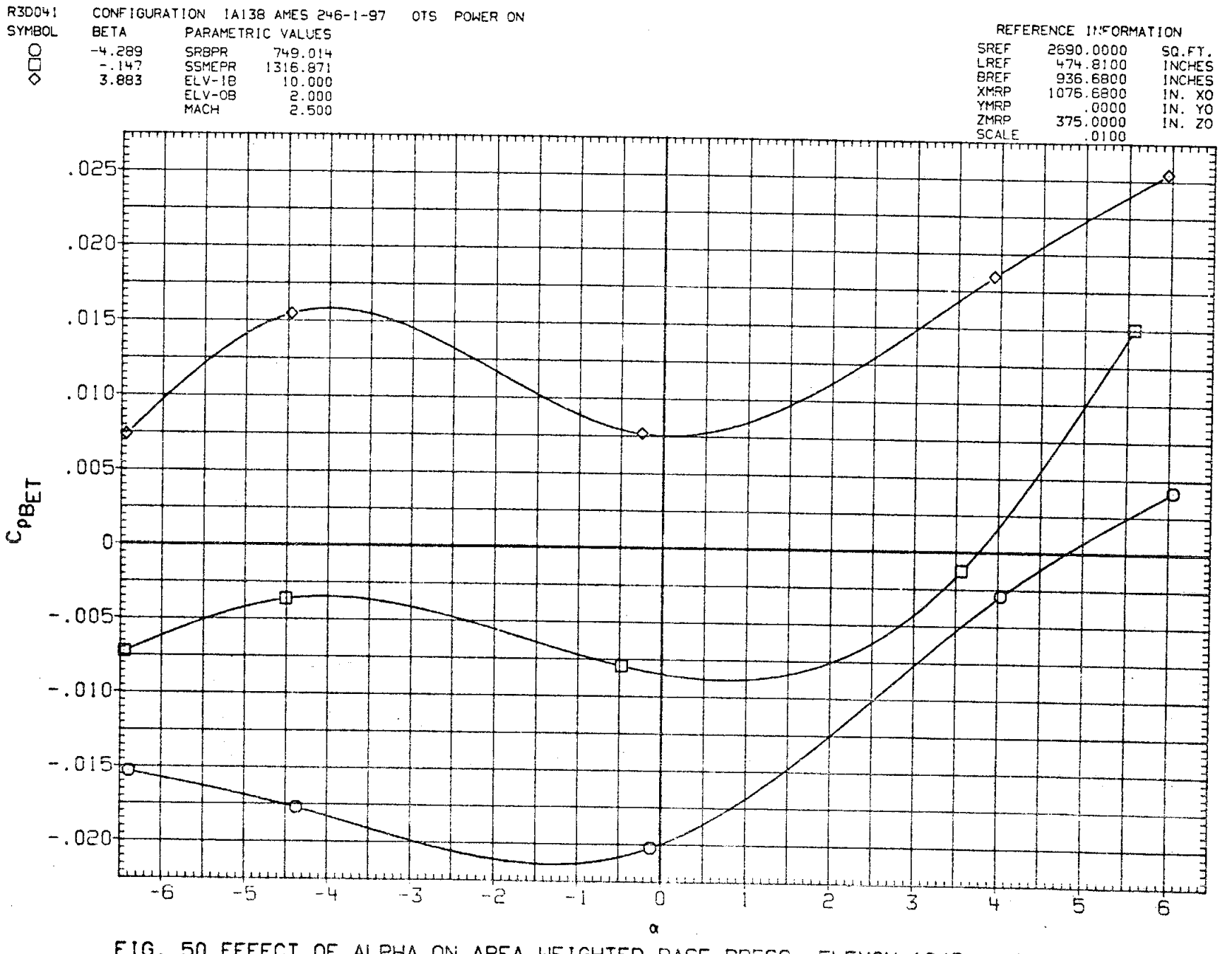

FIG. 50 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/2 MACH=2.5

DATE 17 OCT 78

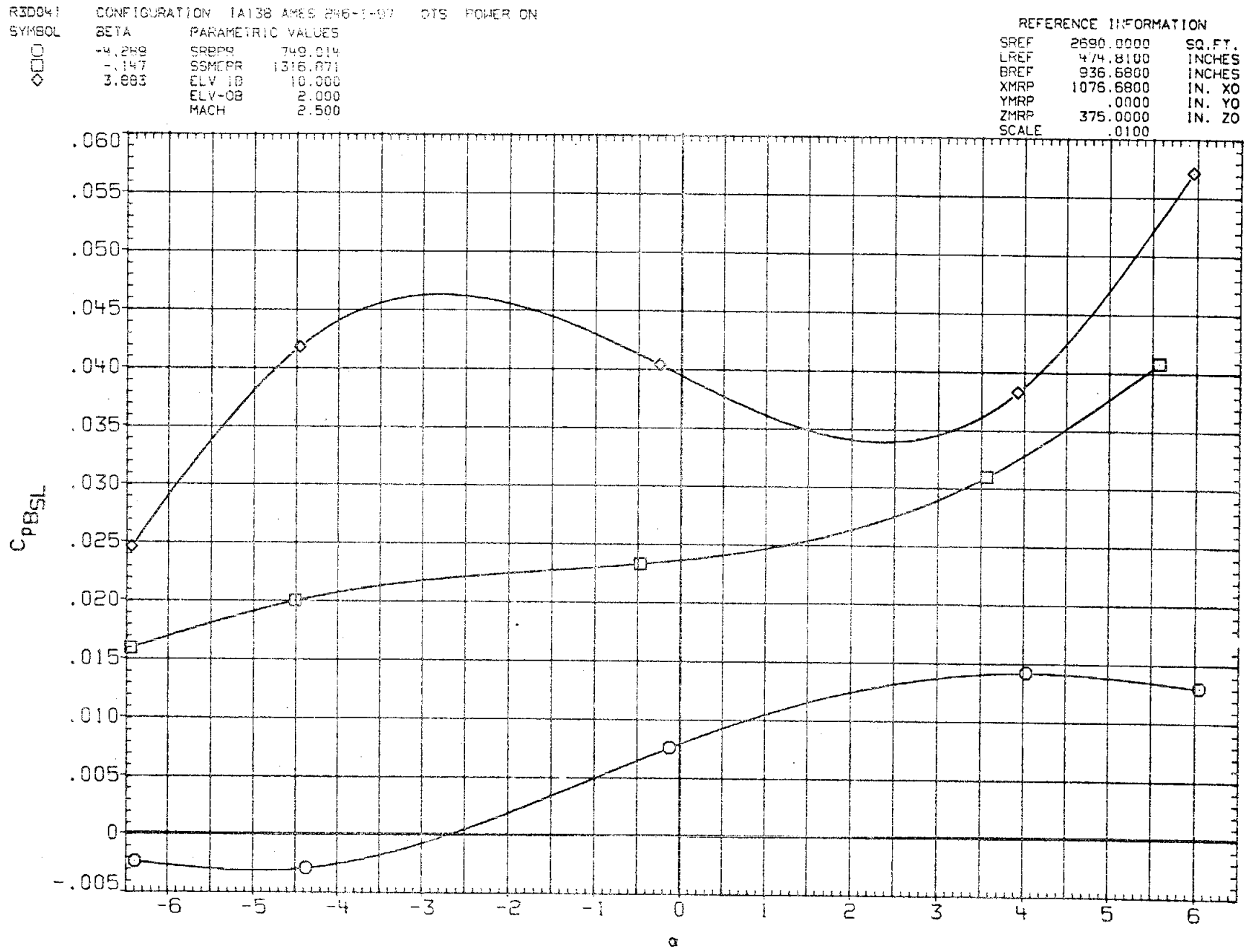

FIG. 50 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/2 MACH=2.5

DATE 17 OCT 78

R30041 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.289
□	-.147
◇	3.883

PARAMETRIC VALUES

SRBPR	749.014
SSMEPR	1316.871
ELV-IB	10.000
ELV-OB	2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

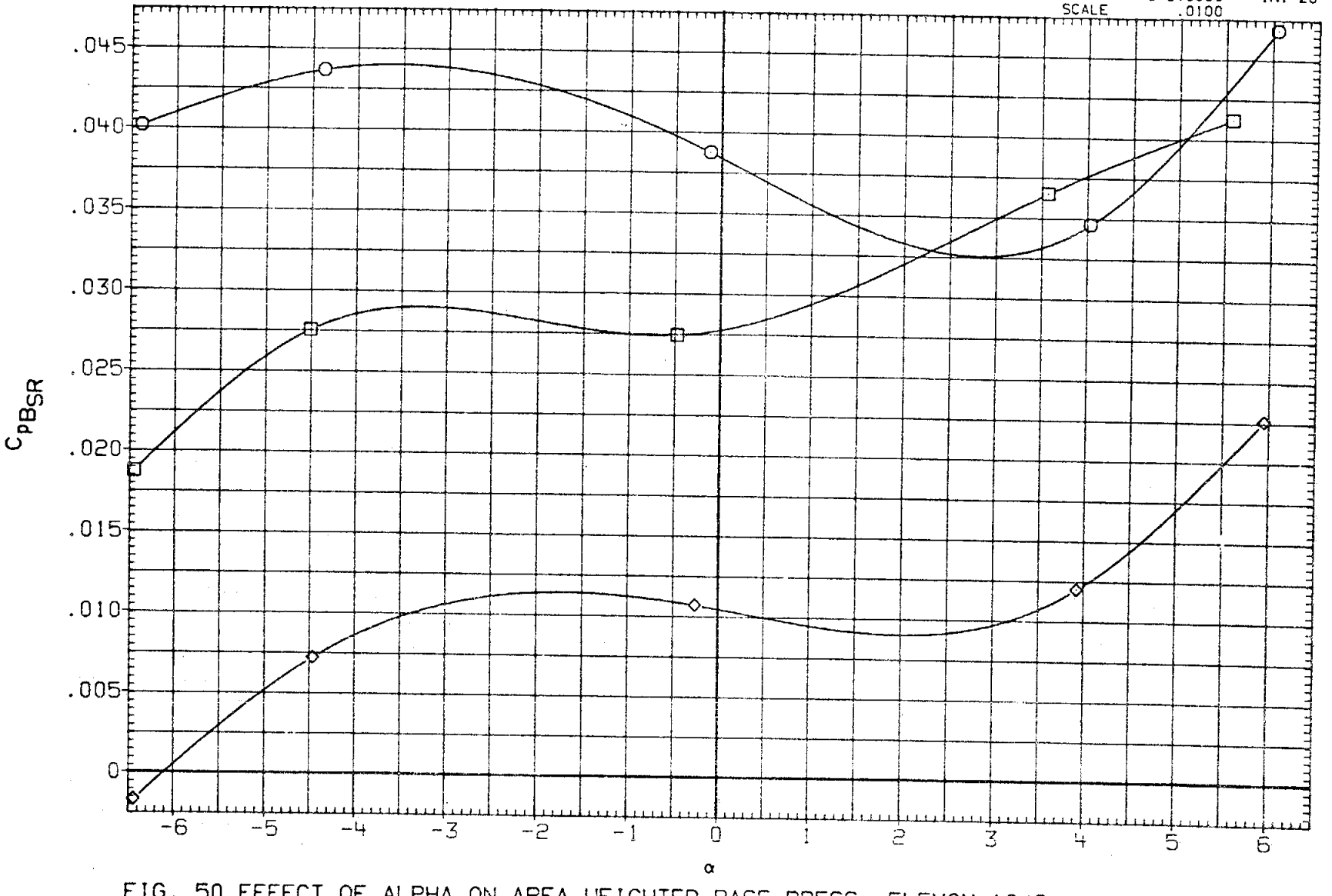

FIG. 50 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=10/2 MACH=2.5

DATE 17 OCT 78

R3D042 CONFIGURATION IA139 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	4.134	SRBDR	180.334
□	-.260	SSMEPR	371.871
◇	3.769	ELV-IB	12.000
		ELV-OB	-2.000
		MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

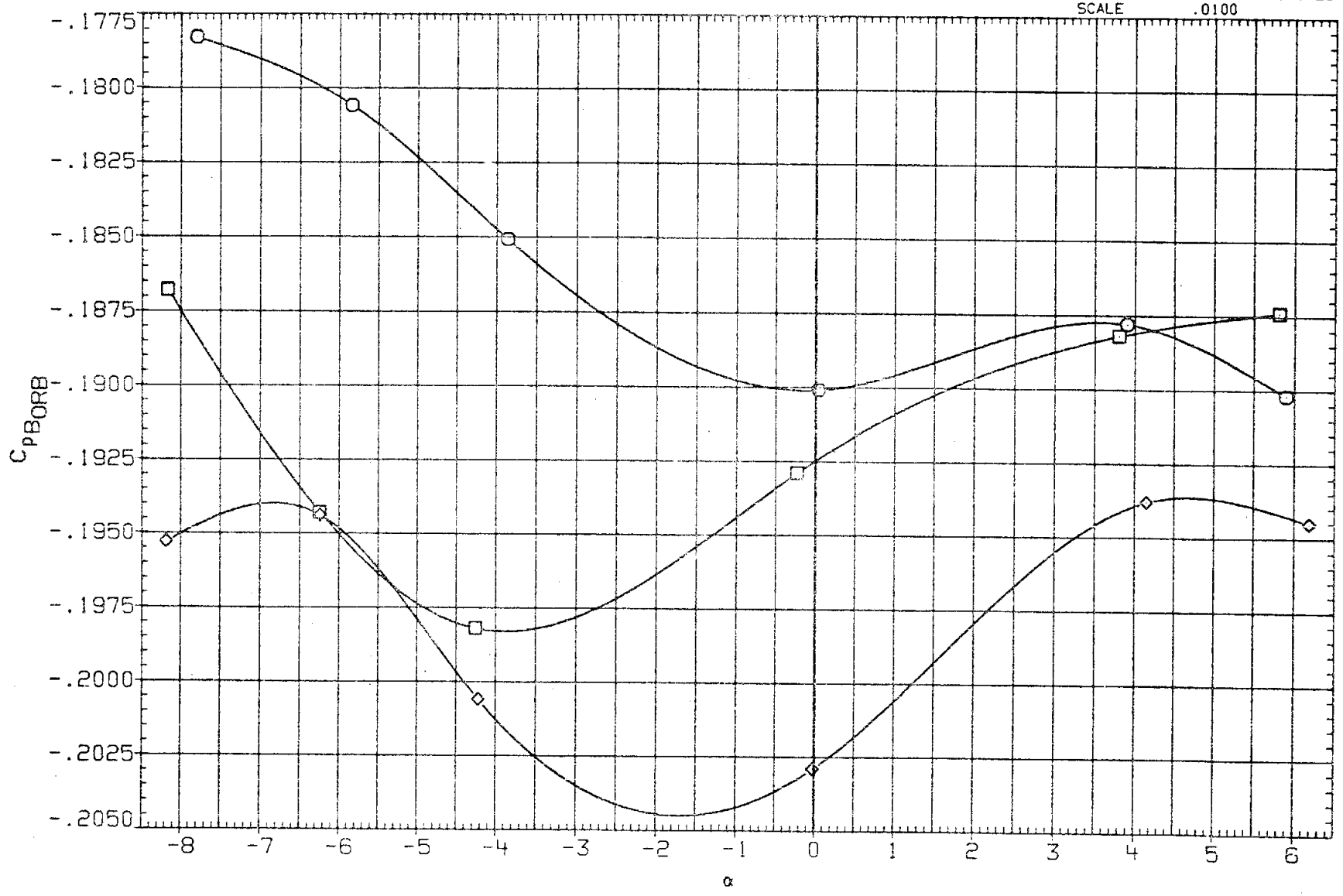

FIG. 51 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.55

DATE 17 OCT 78

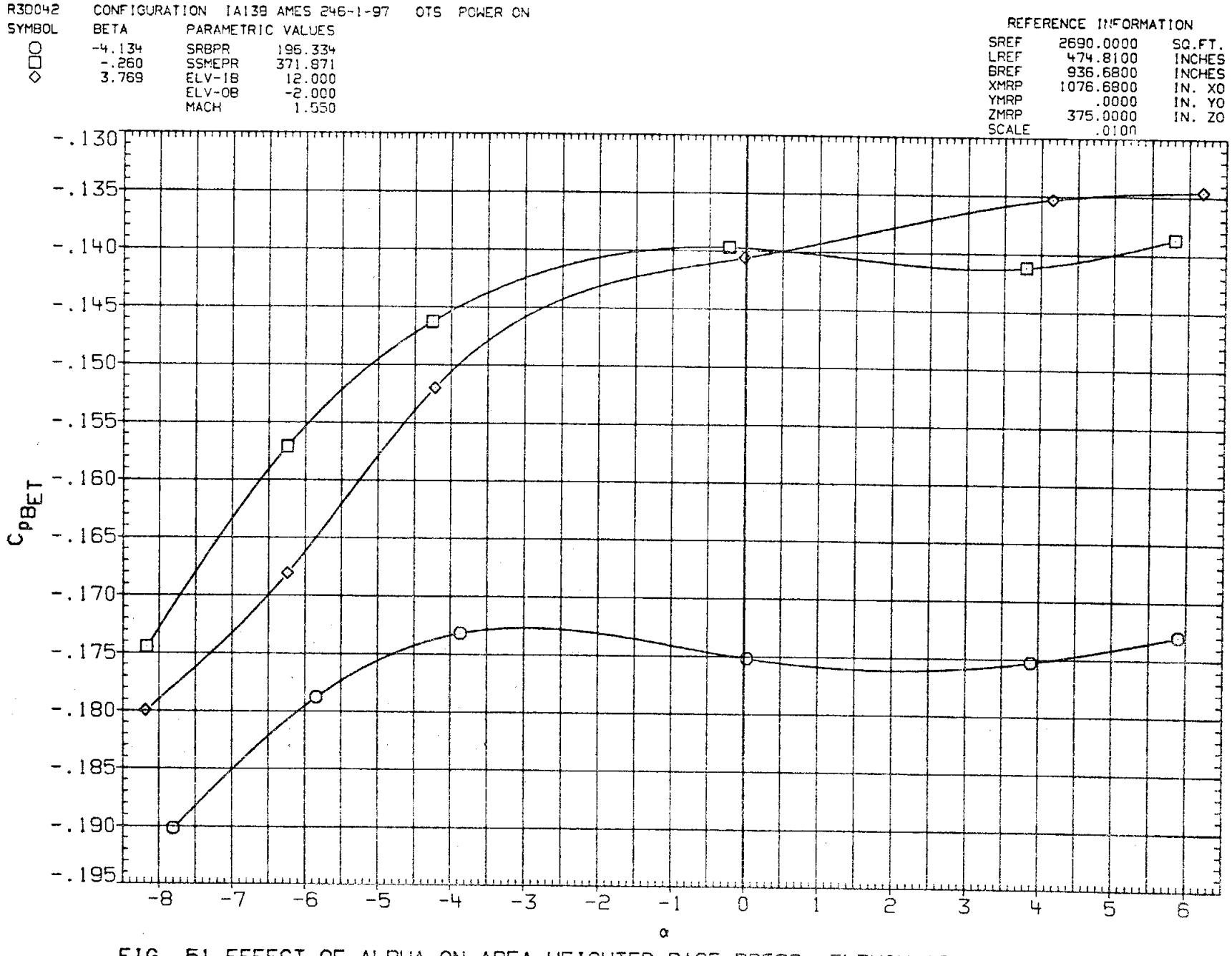

FIG. 51 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.55

DATE 17 OCT 78

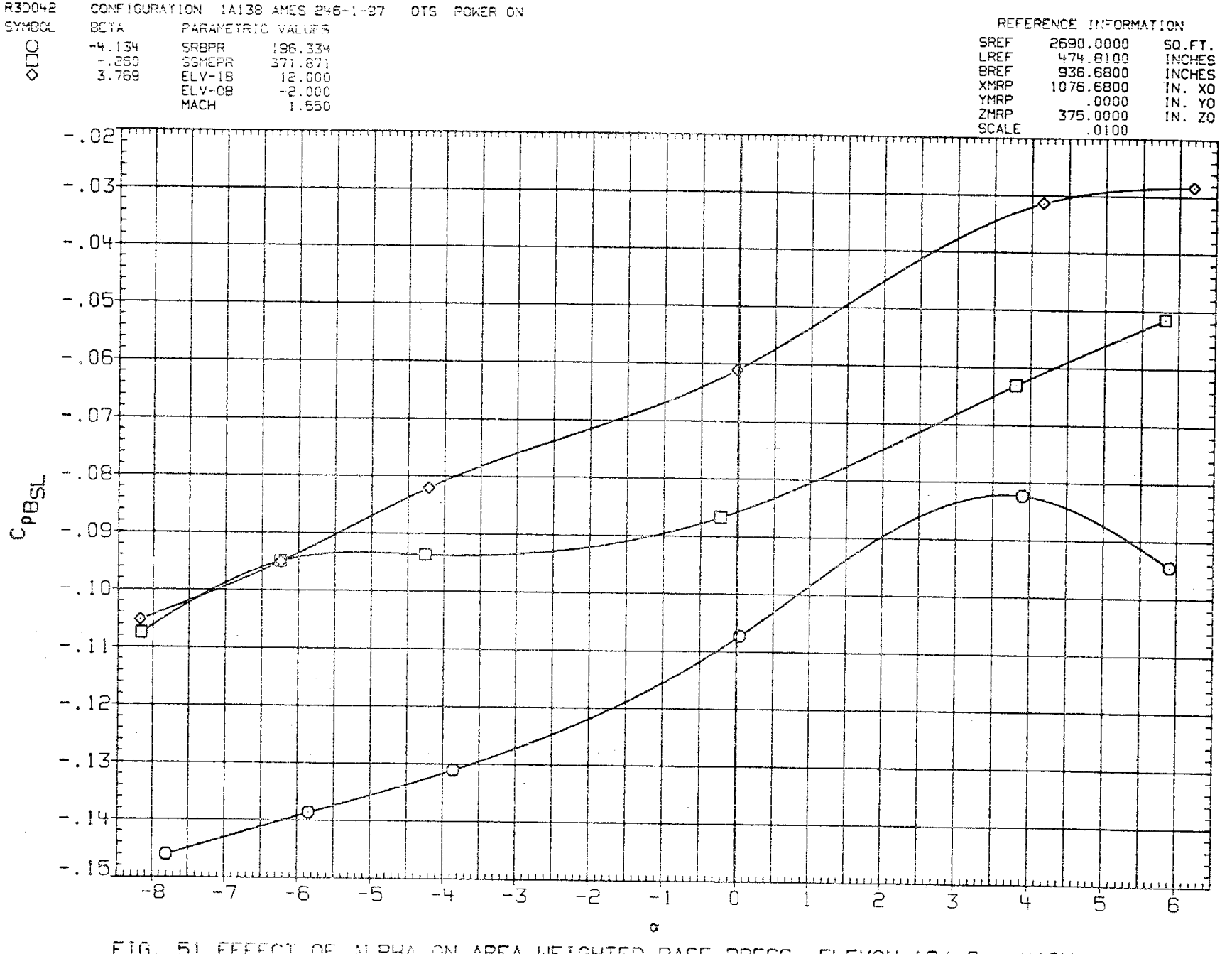

FIG. 51 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.55

DATE 17 OCT 78

R3D042 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.134
□	-.260
◇	3.769

PARAMETRIC VALUES

SRBPR	196.334
SSMEPR	371.871
ELV-IB	12.000
ELV-OB	-2.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

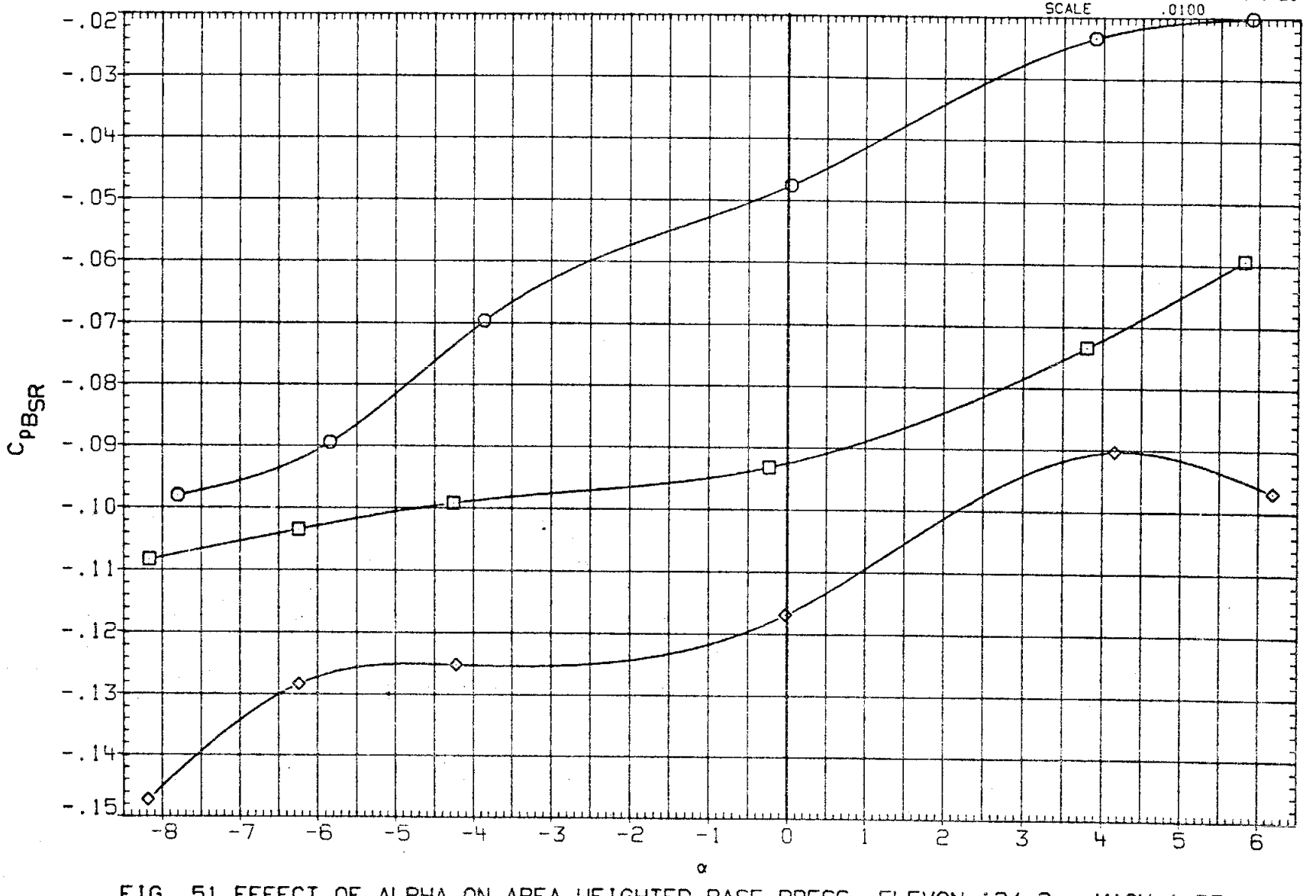

FIG. 51 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.55

DATE 17 OCT 78

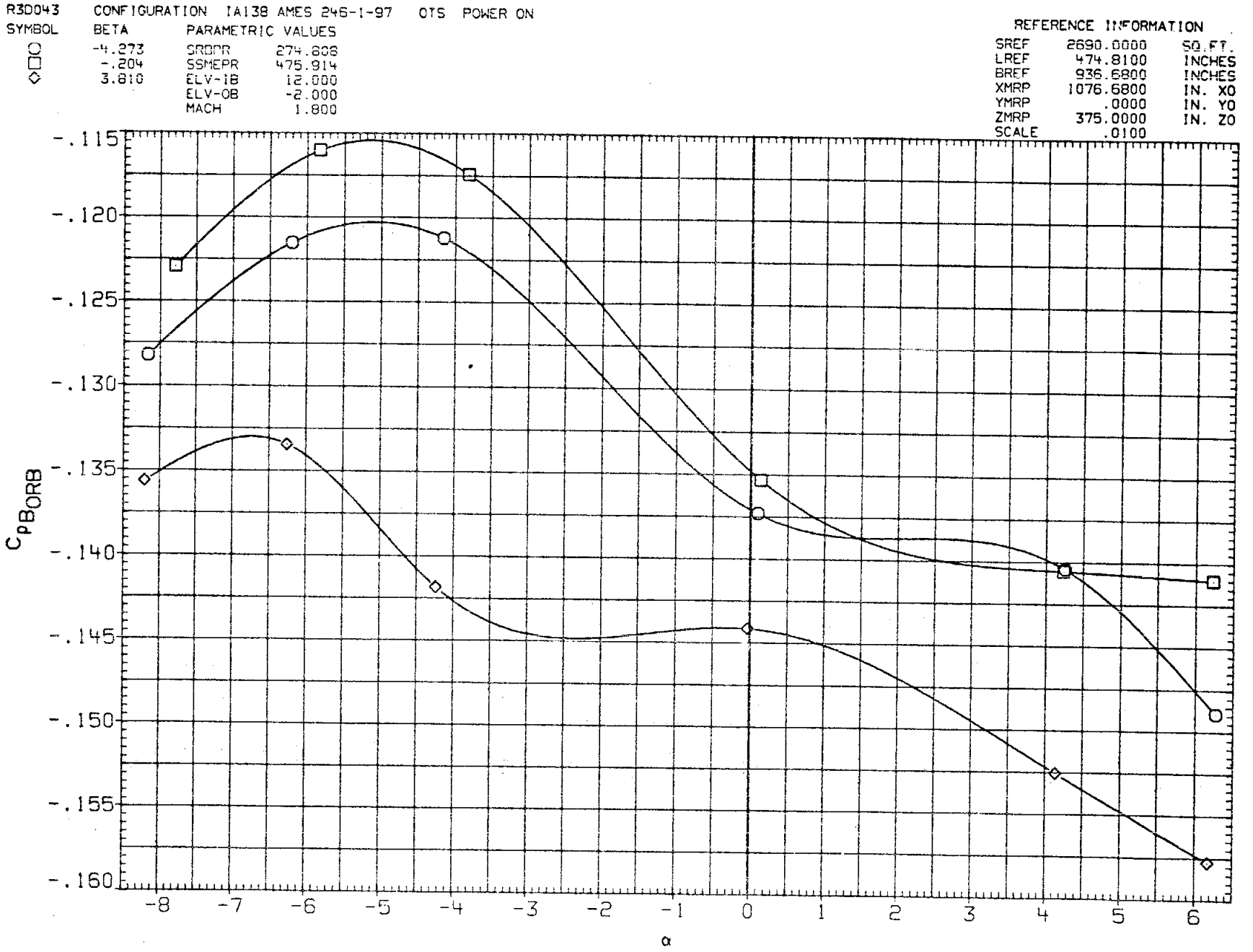

FIG. 52 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.8

DATE 17 OCT 78

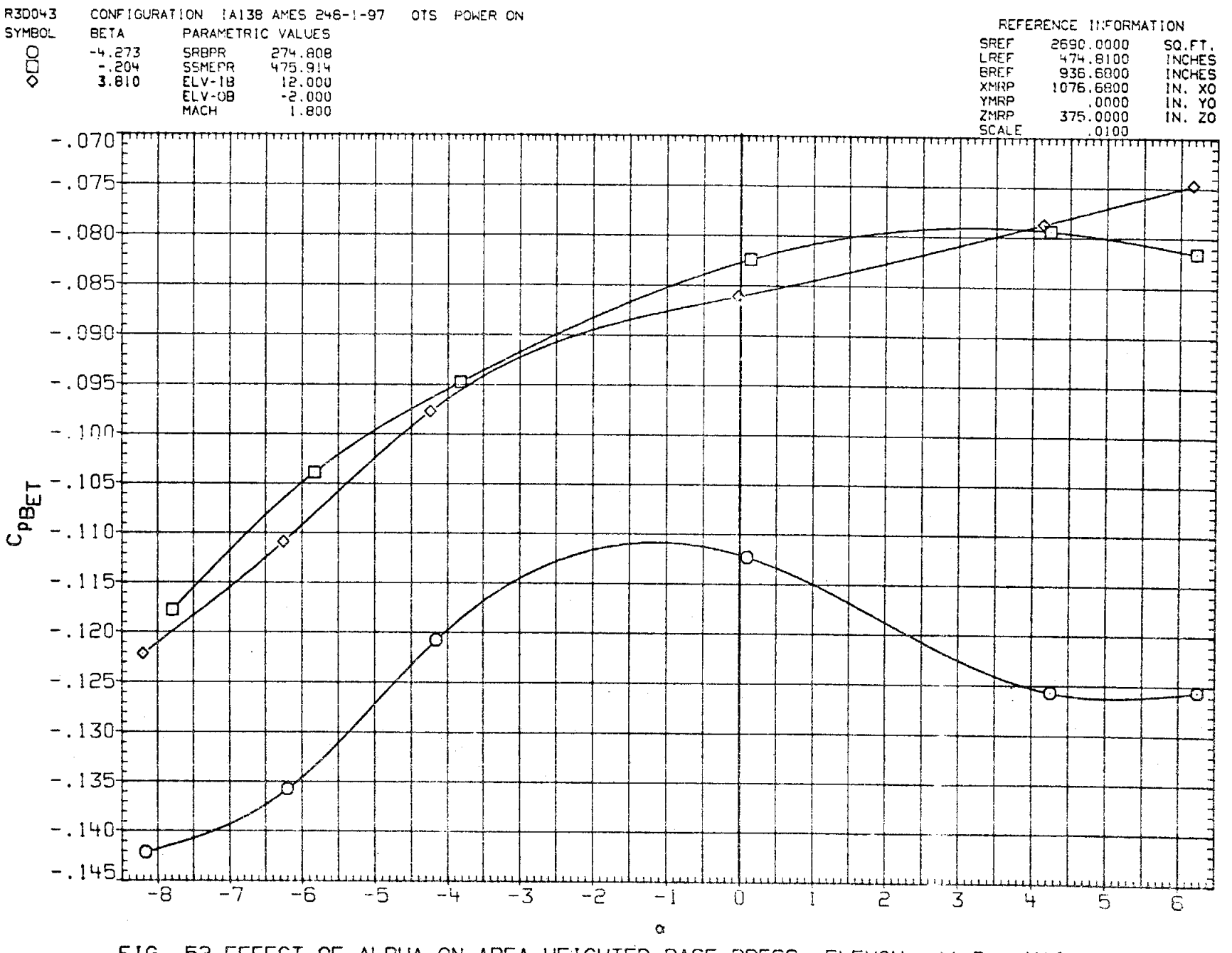

FIG. 52 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.8

DATE 17 OCT 78

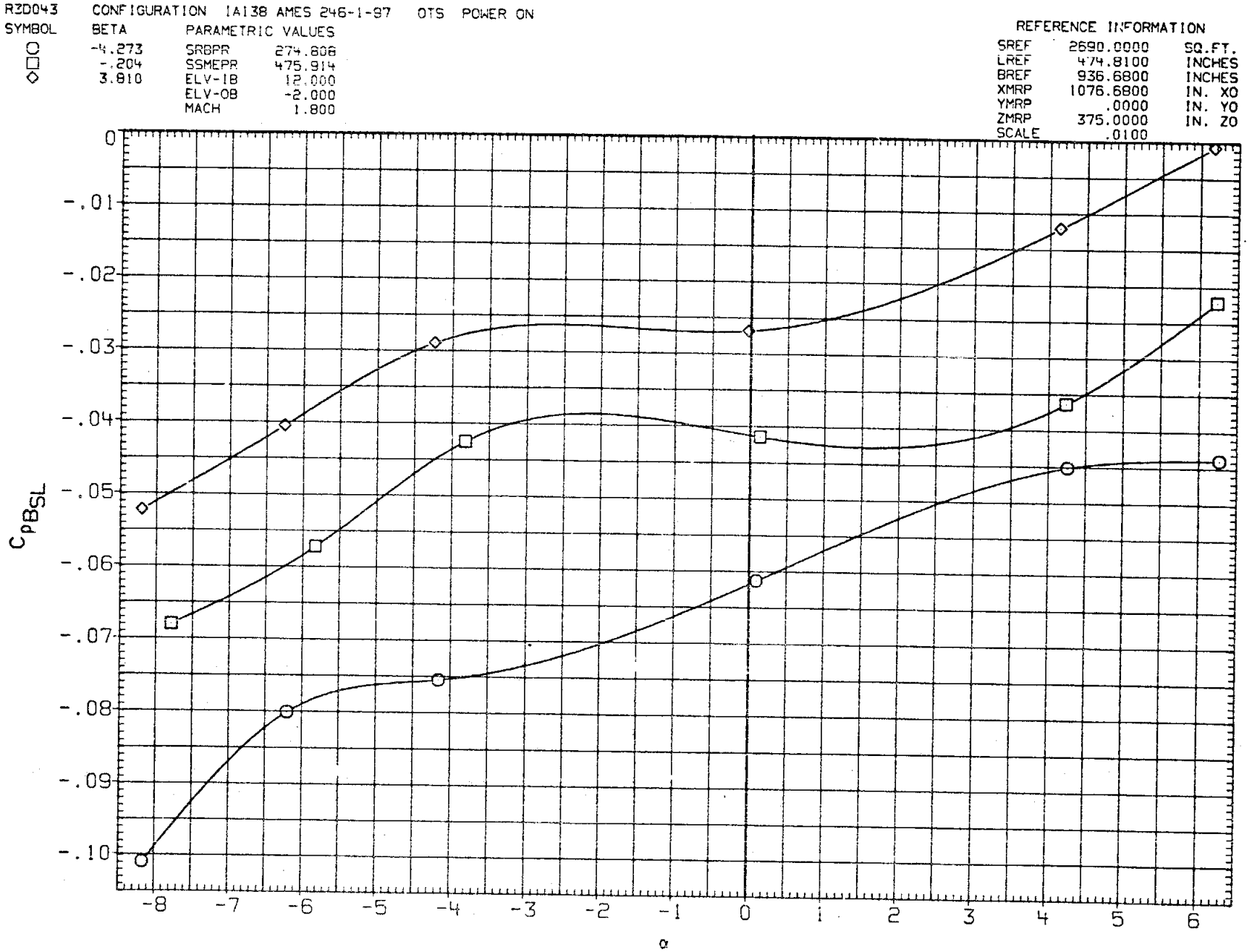

FIG. 52 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.8

DATE 17 OCT 78

R3D043 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.273
□	-.204
◇	3.810

PARAMETRIC VALUES	
SRBPR	274.808
SSMEPR	475.914
ELV-IB	12.000
ELV-OB	-2.000
MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

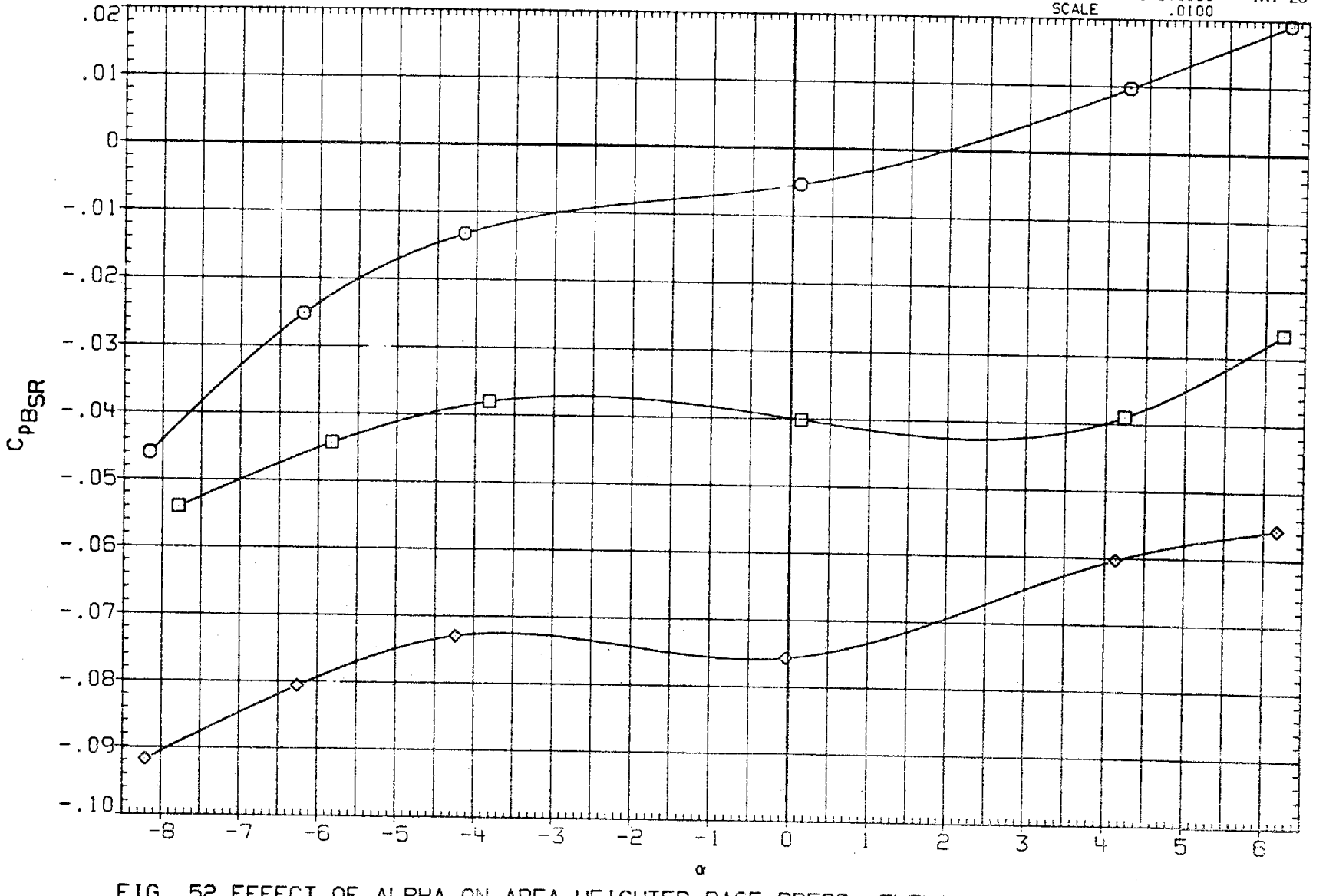

FIG. 52 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-2 MACH=1.8

DATE 17 OCT 78

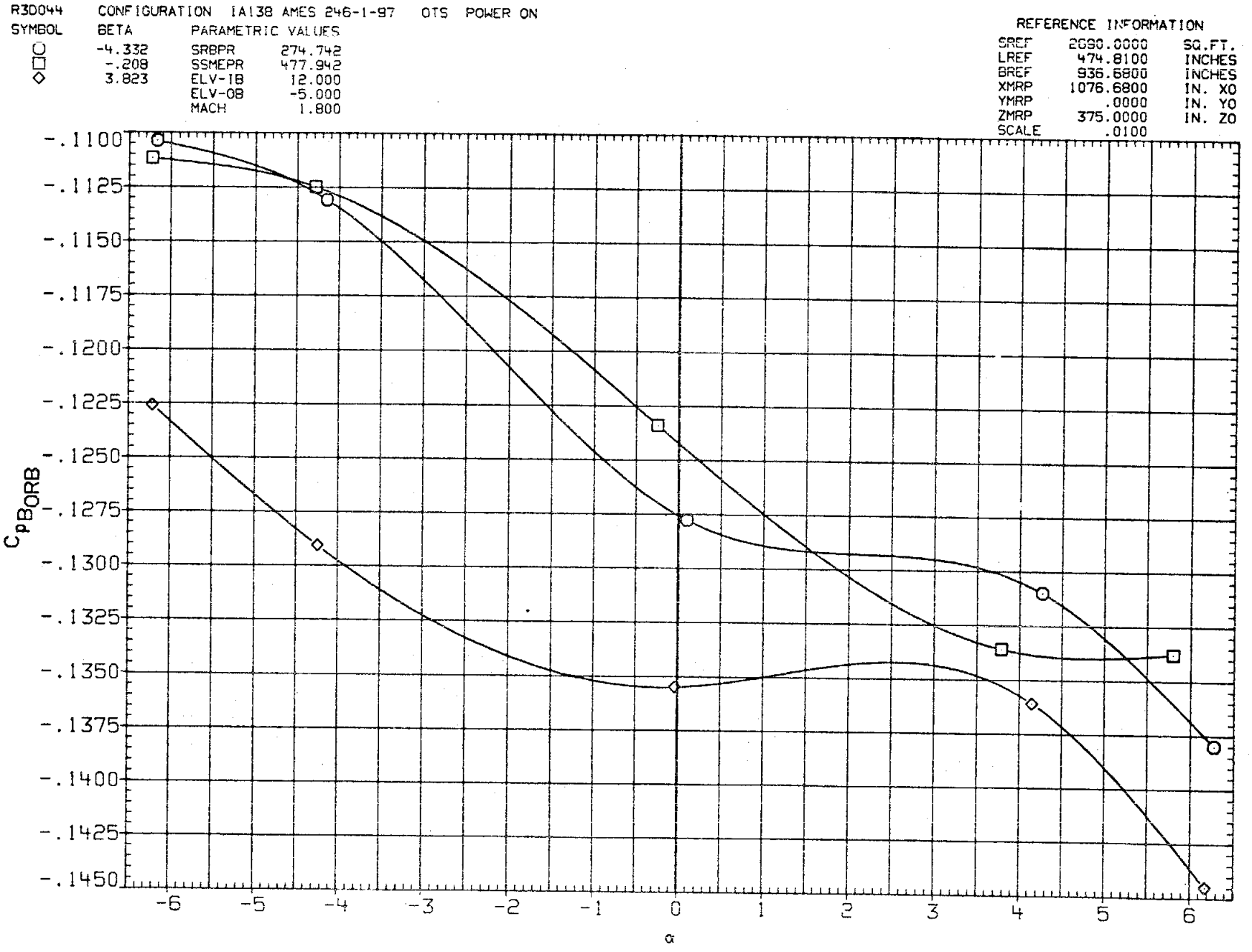

FIG. 53 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS..ELEVON=12/-5 MACH=1.8

DATE 17 OCT 78

R3D044 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.332
□	-.208
◇	3.823

PARAMETRIC VALUES

SRBPR	274.742
SSMEPR	477.942
ELV-IB	12.000
ELV-OB	-5.000
MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

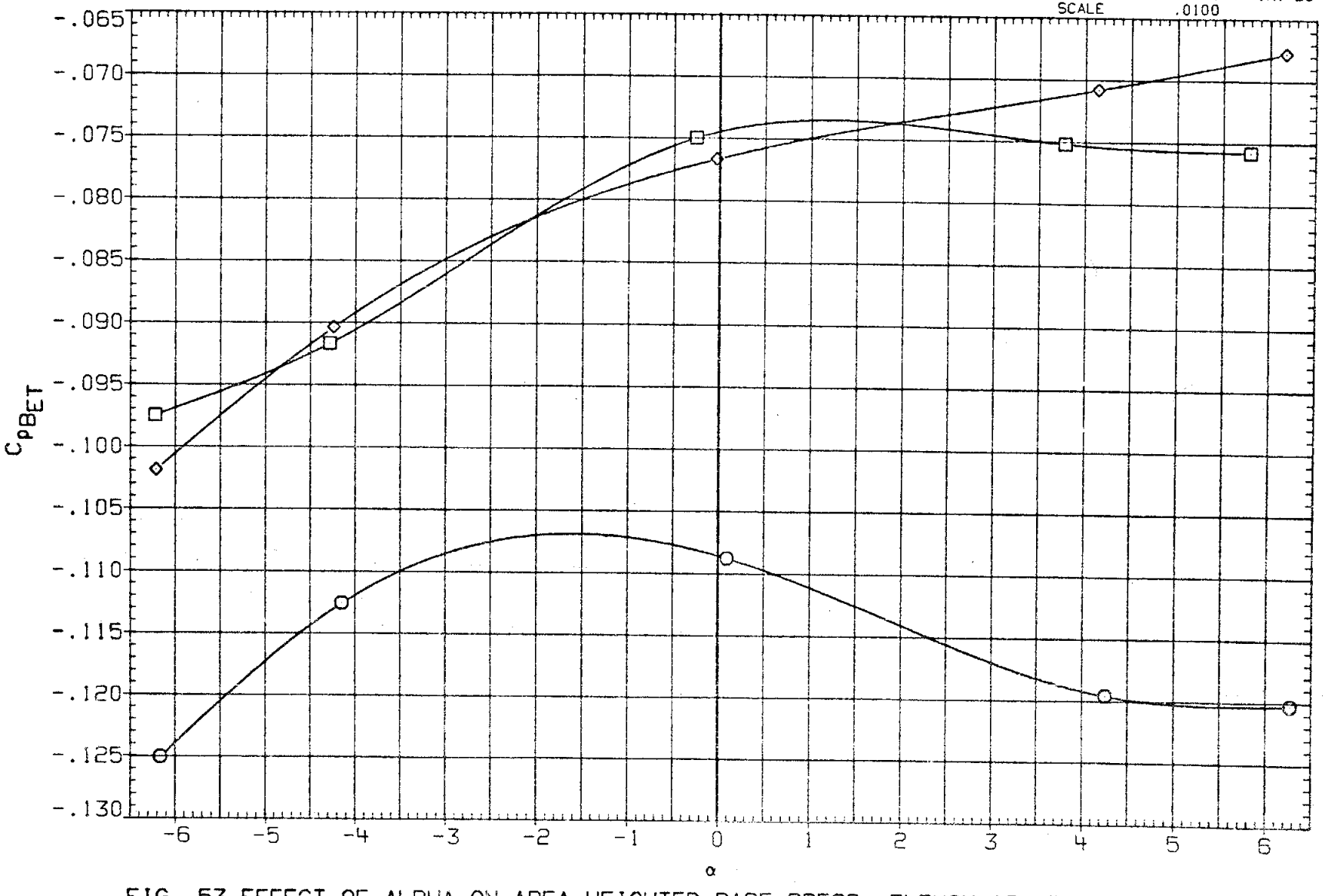

FIG. 53 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-5 MACH=1.8

DATE 17 OCT 78

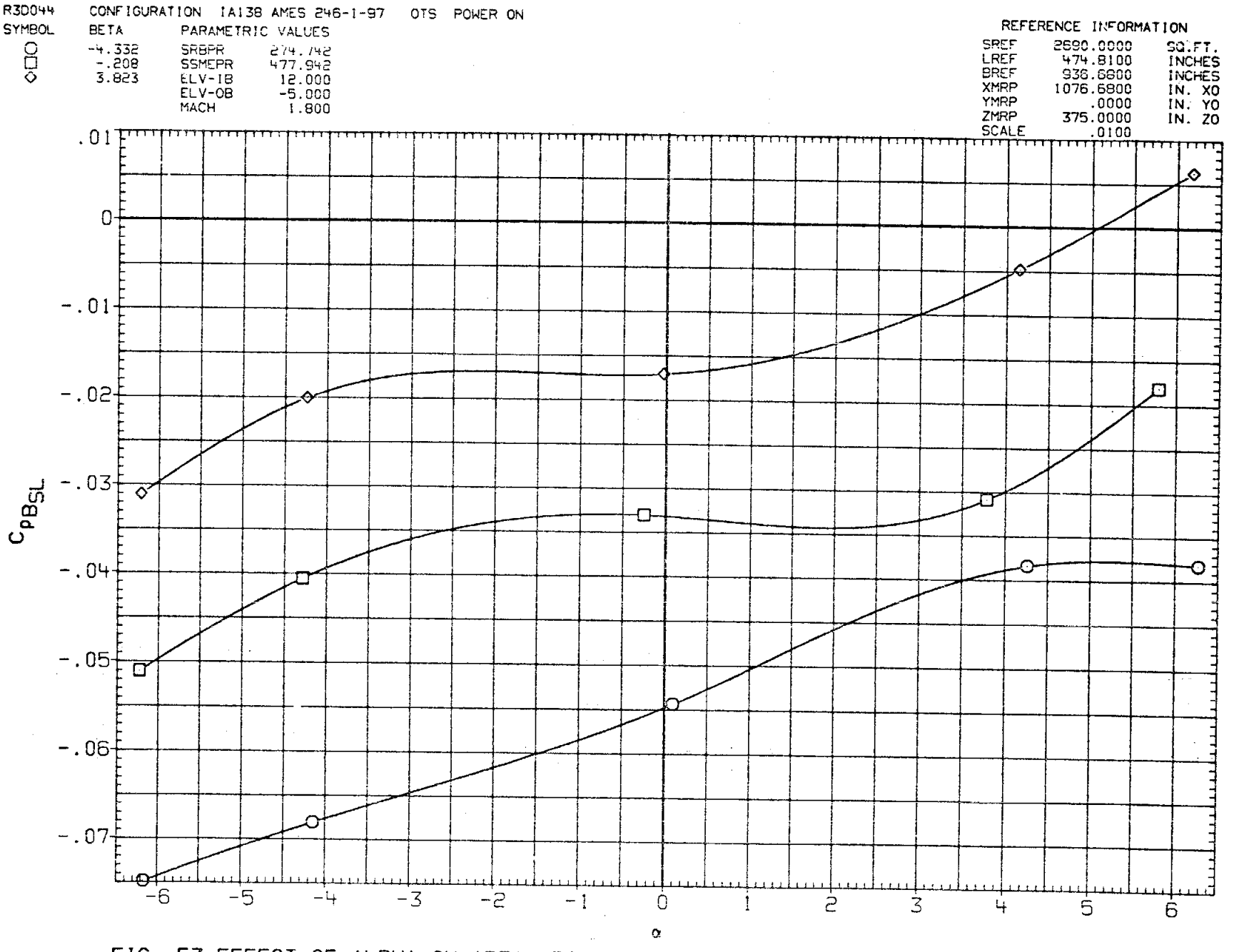

FIG. 53 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-5 MACH=1.8

DATE 17 OCT 78

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.332	SRBPR	274.742
□	-.208	SSMEPR	477.942
◇	3.823	ELV-IB	12.000
		ELV-OB	-5.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

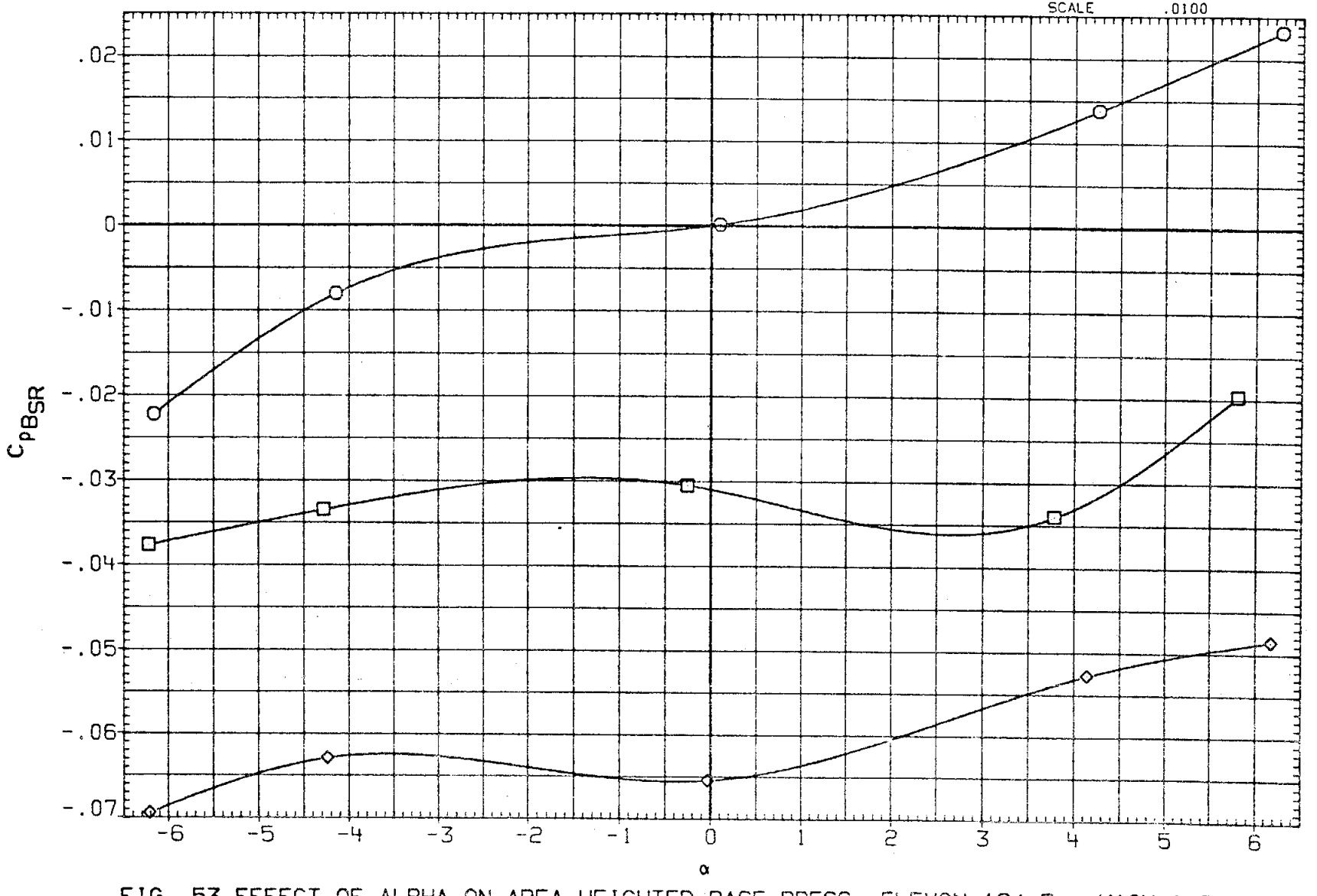

FIG. 53 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-5 MACH=1.8

DATE 17 OCT 78

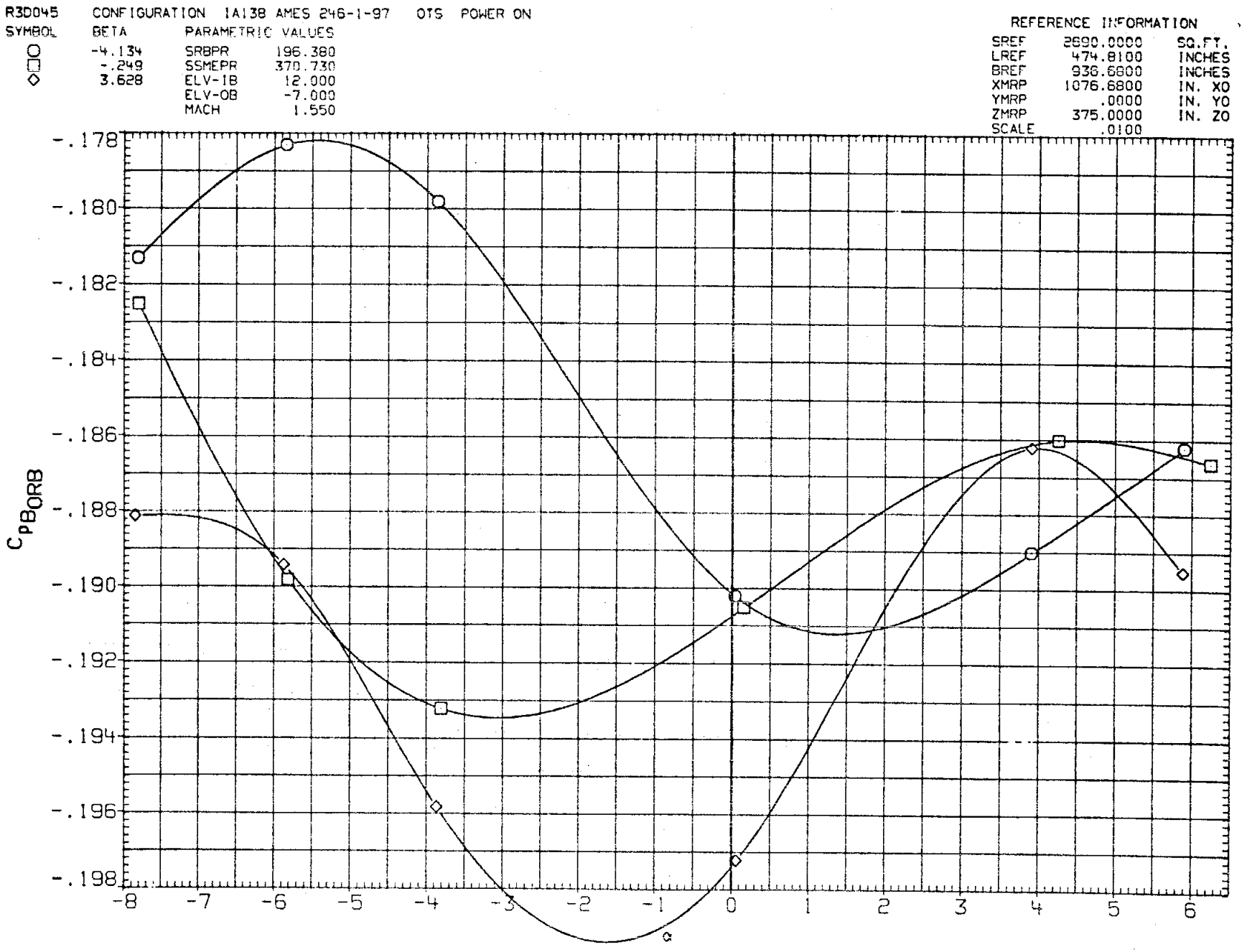

FIG. 54 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.55

DATE 17 OCT 78

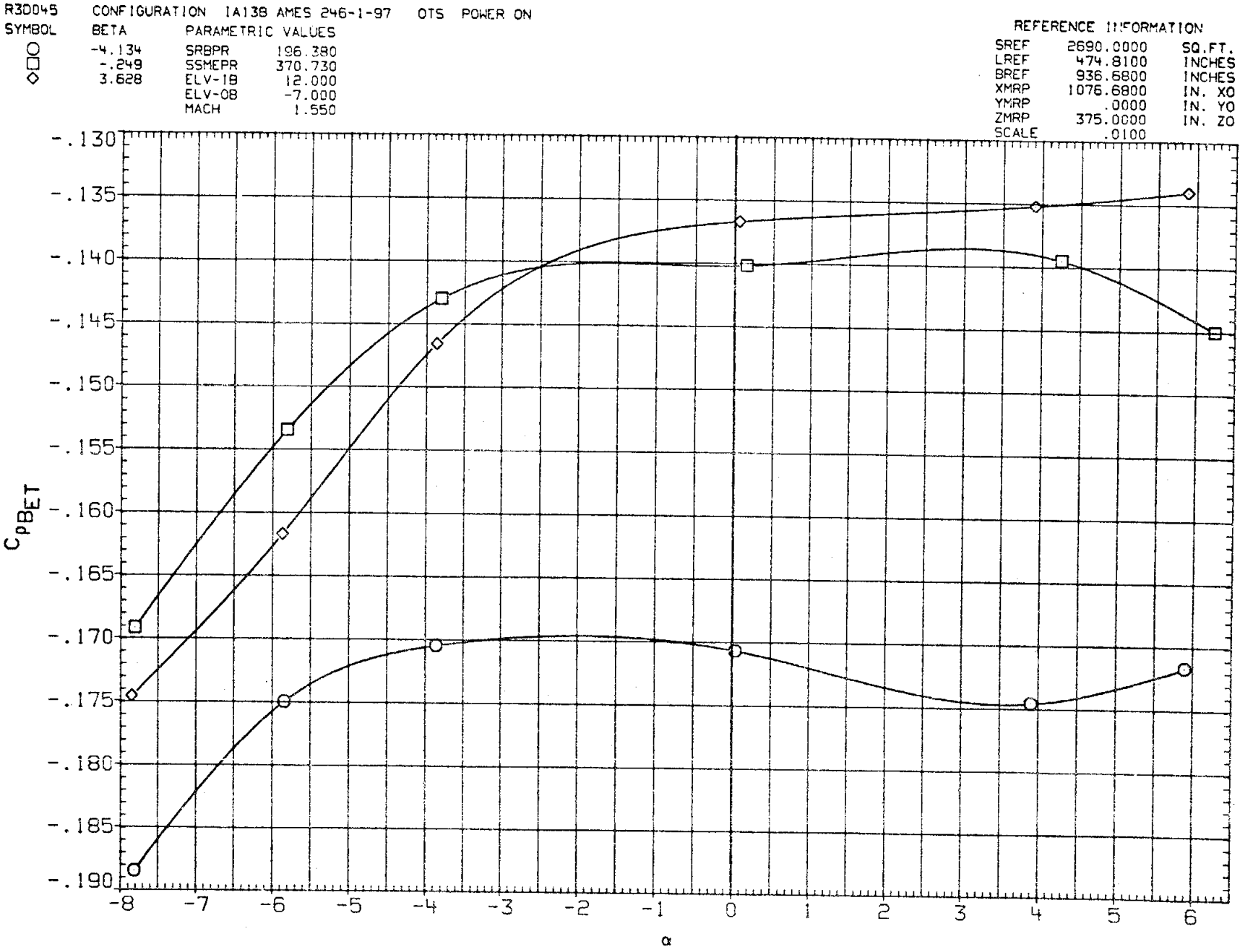

FIG. 54 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.55

DATE 17 OCT 78

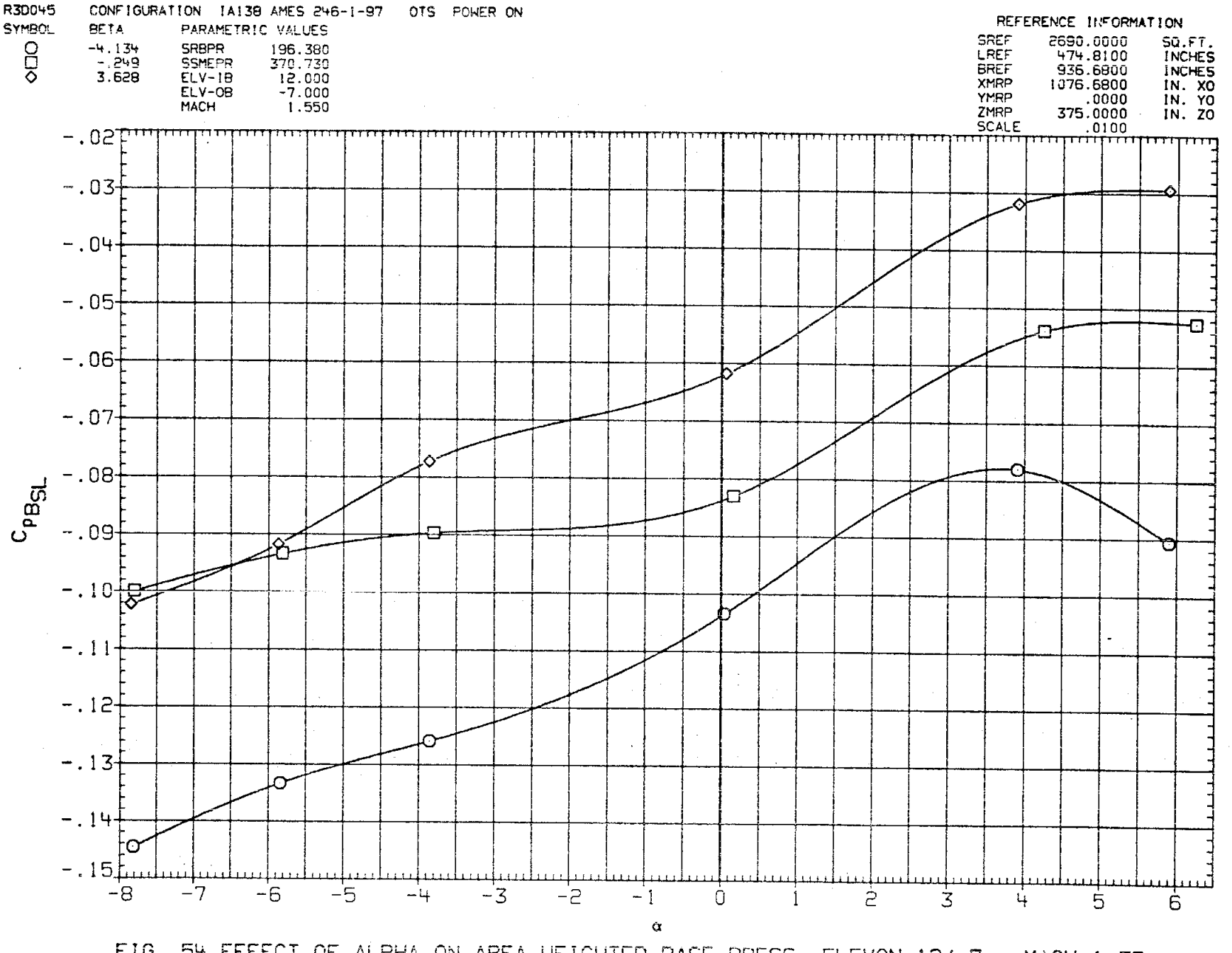

FIG. 54 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.55

DATE 17 OCT 78

R3D045 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.134
□	-.249
◇	3.628

PARAMETRIC VALUES

SRBPR	196.390
SSMEPR	370.730
ELV-IB	12.000
ELV-OB	-7.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

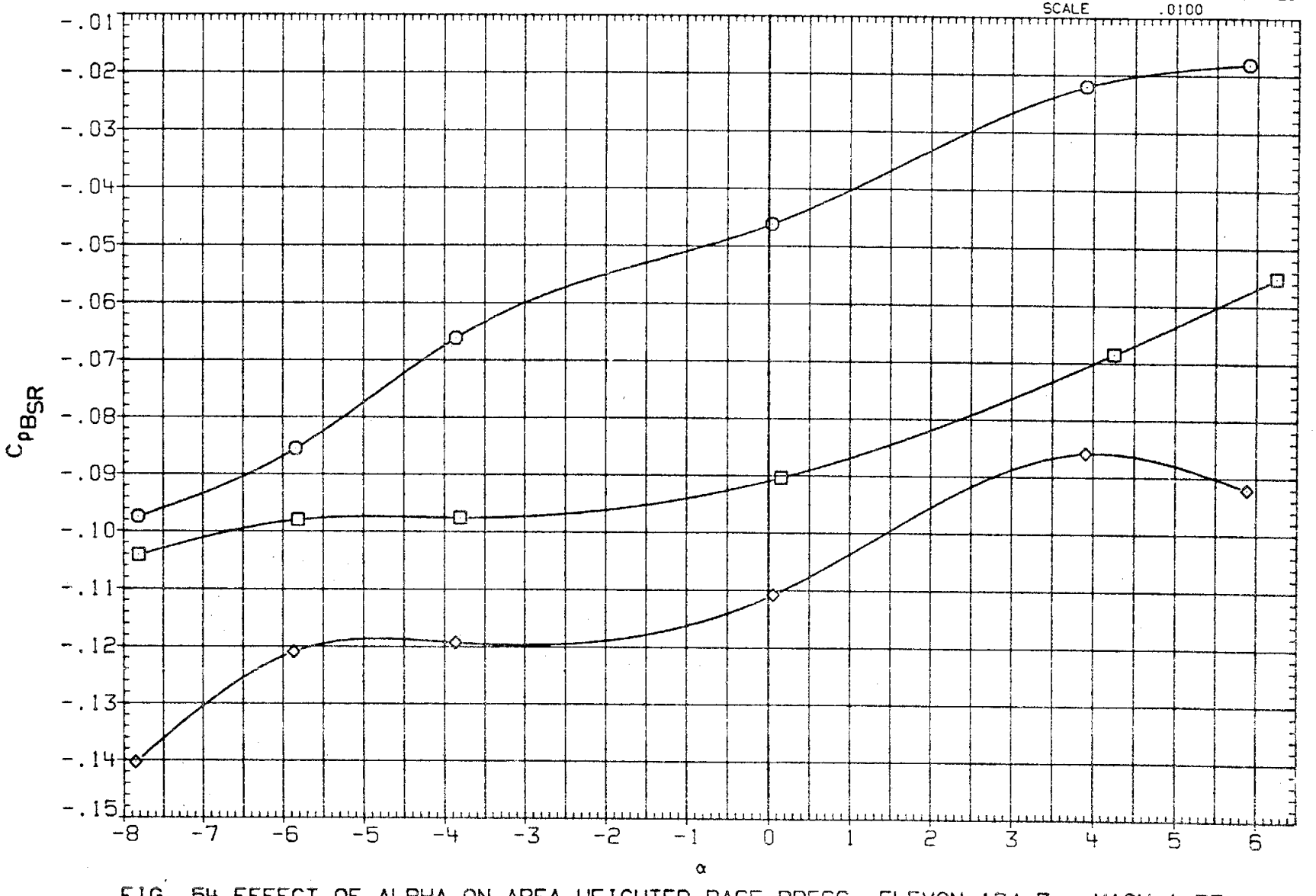

FIG. 54 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.55

DATE 17 OCT 78

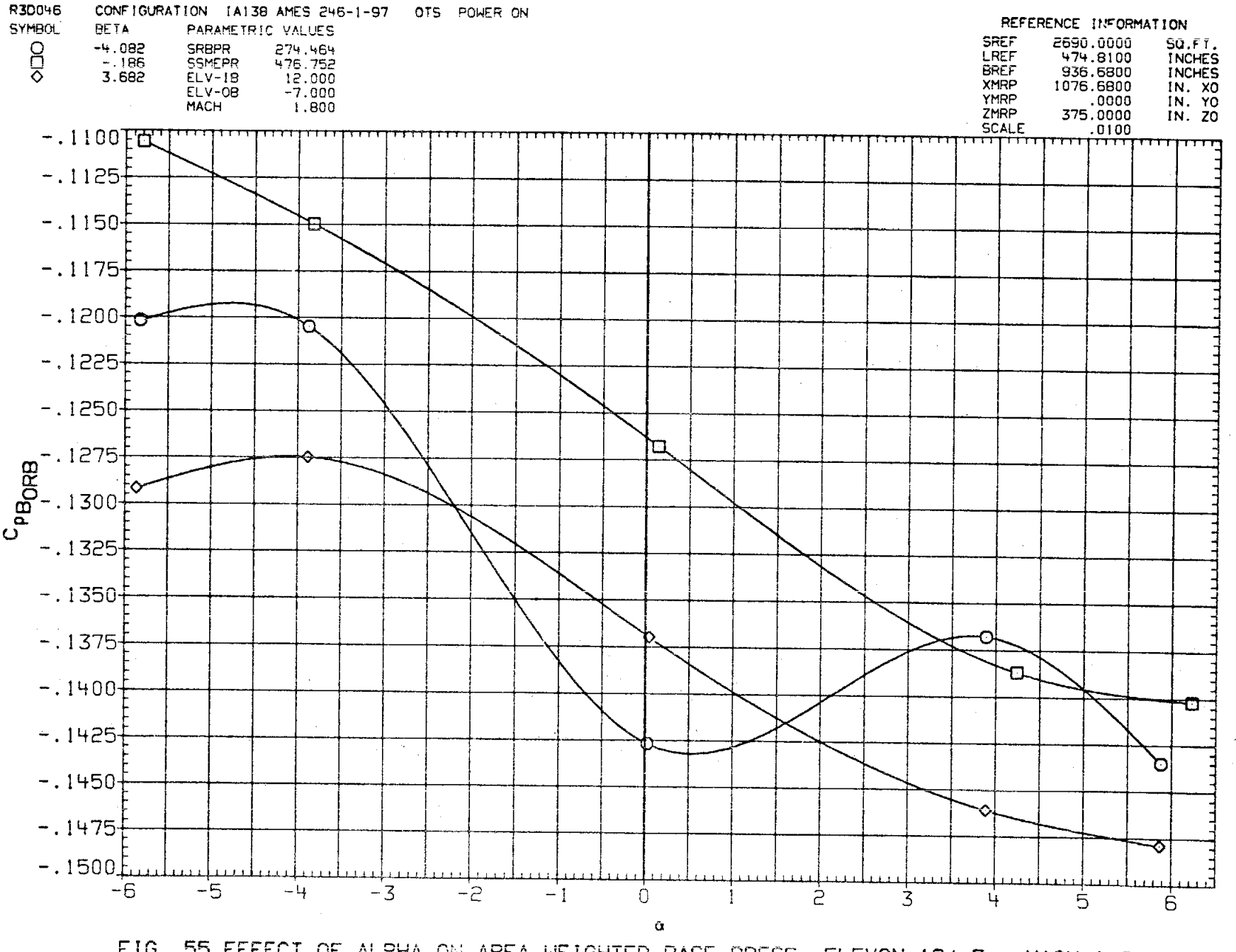

FIG. 55 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.8

DATE 17 OCT 78

R3D046 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
◇	-4.082	SRBPR	274.464
□	-.186	SSMEPR	476.752
○	3.682	ELV-IB	12.000
		ELV-OB	-7.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

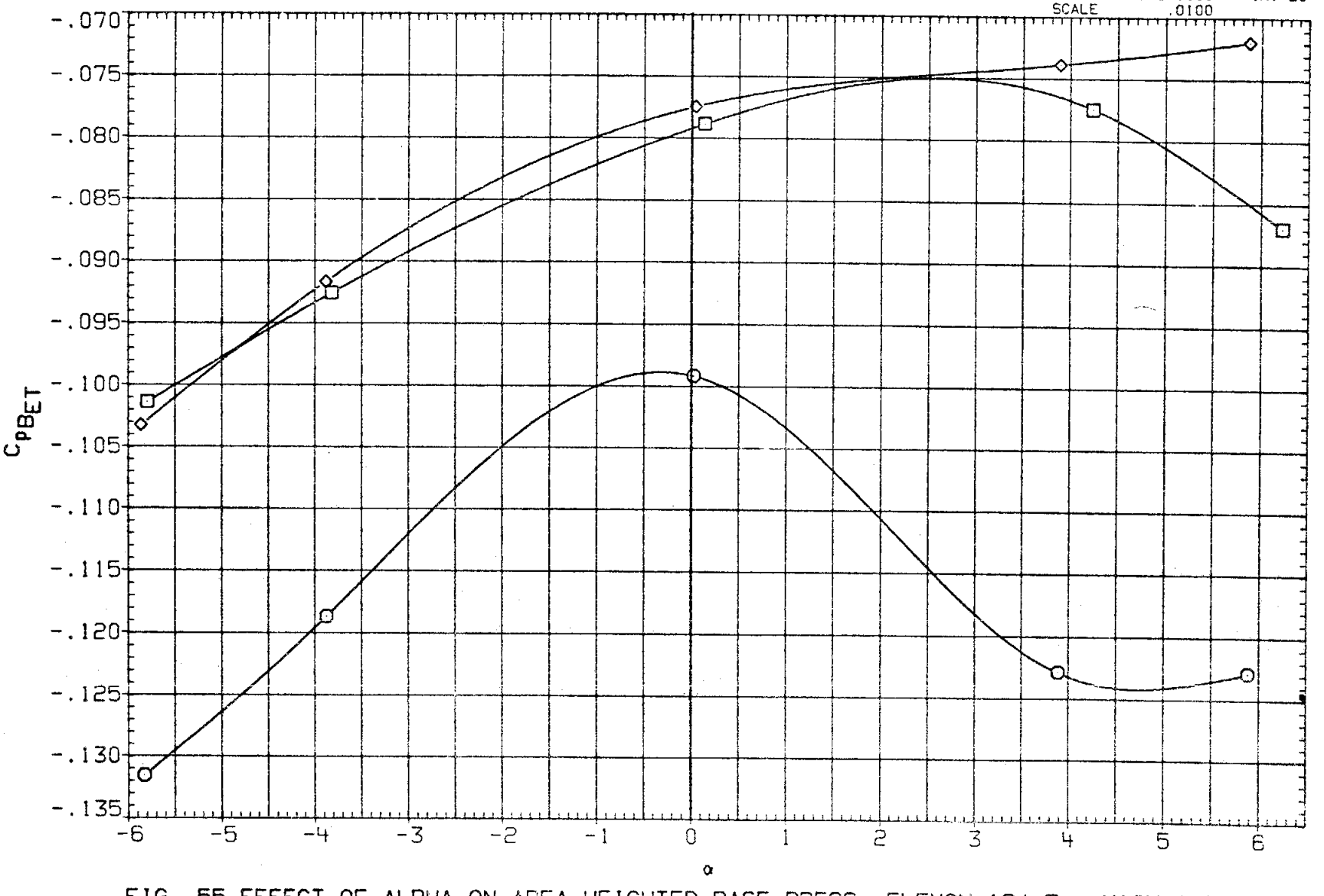

FIG. 55 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.8

DATE 17 OCT 78

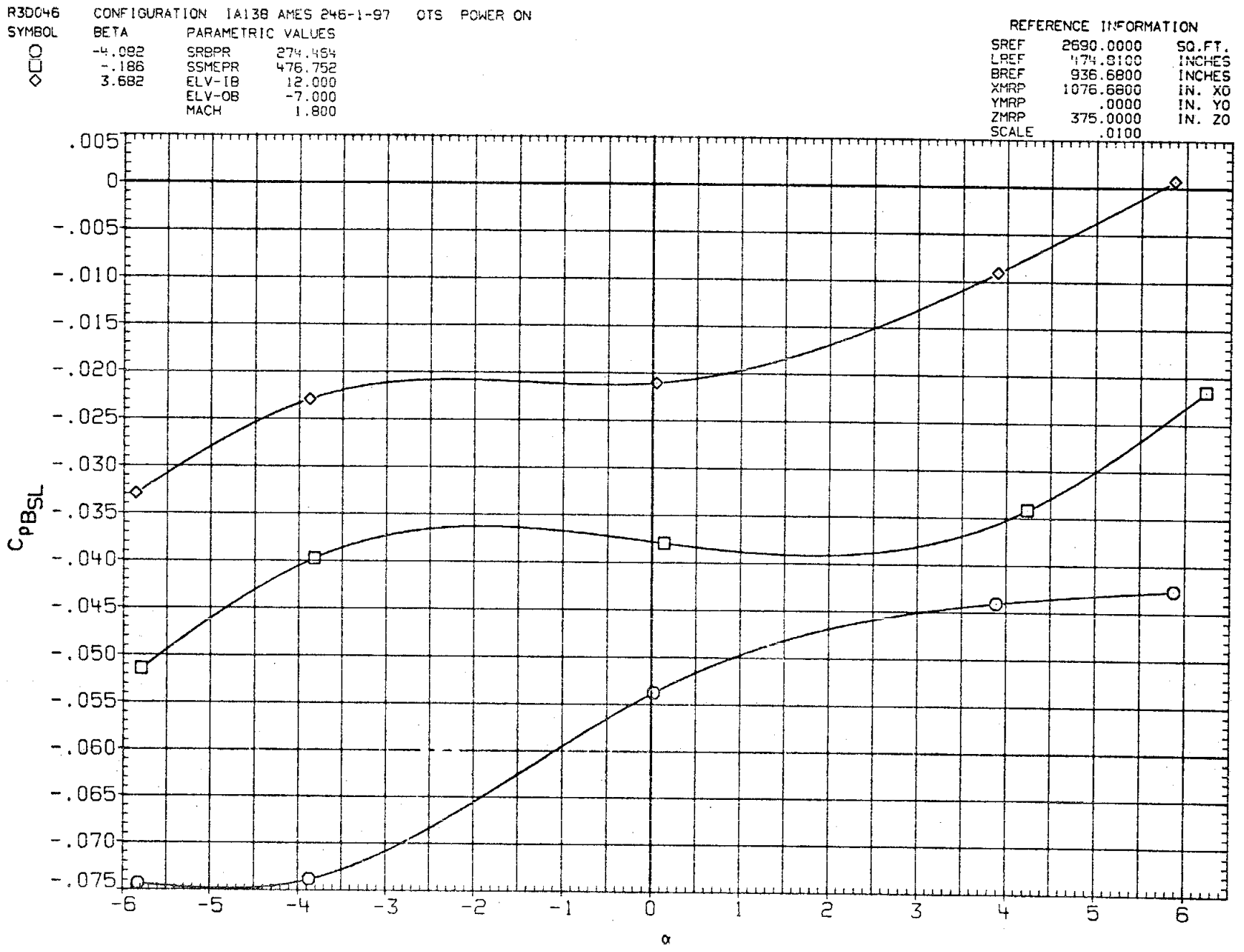

FIG. 55 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.8

DATE 17 OCT 78

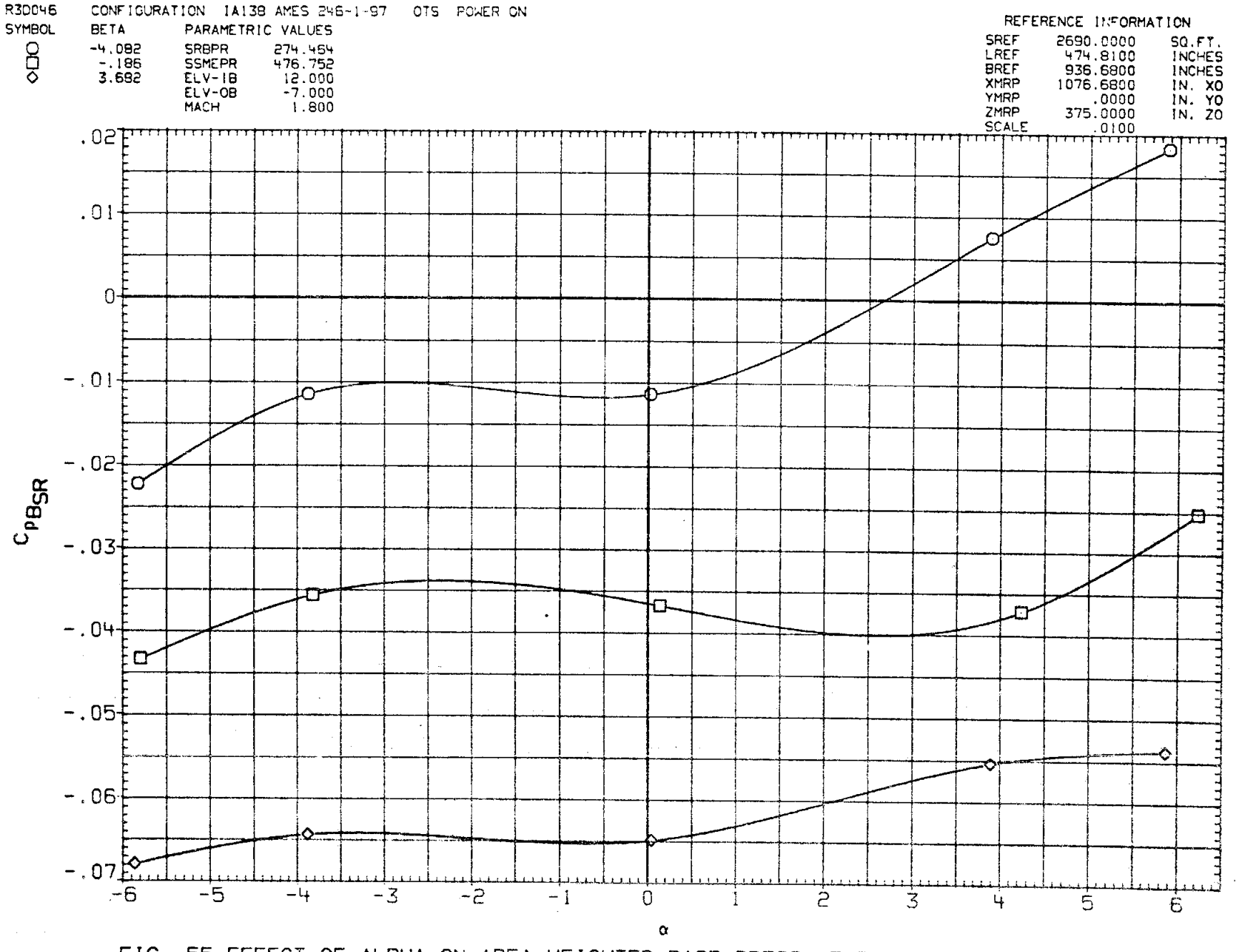

FIG. 55 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=12/-7 MACH=1.8

DATE 17 OCT 78

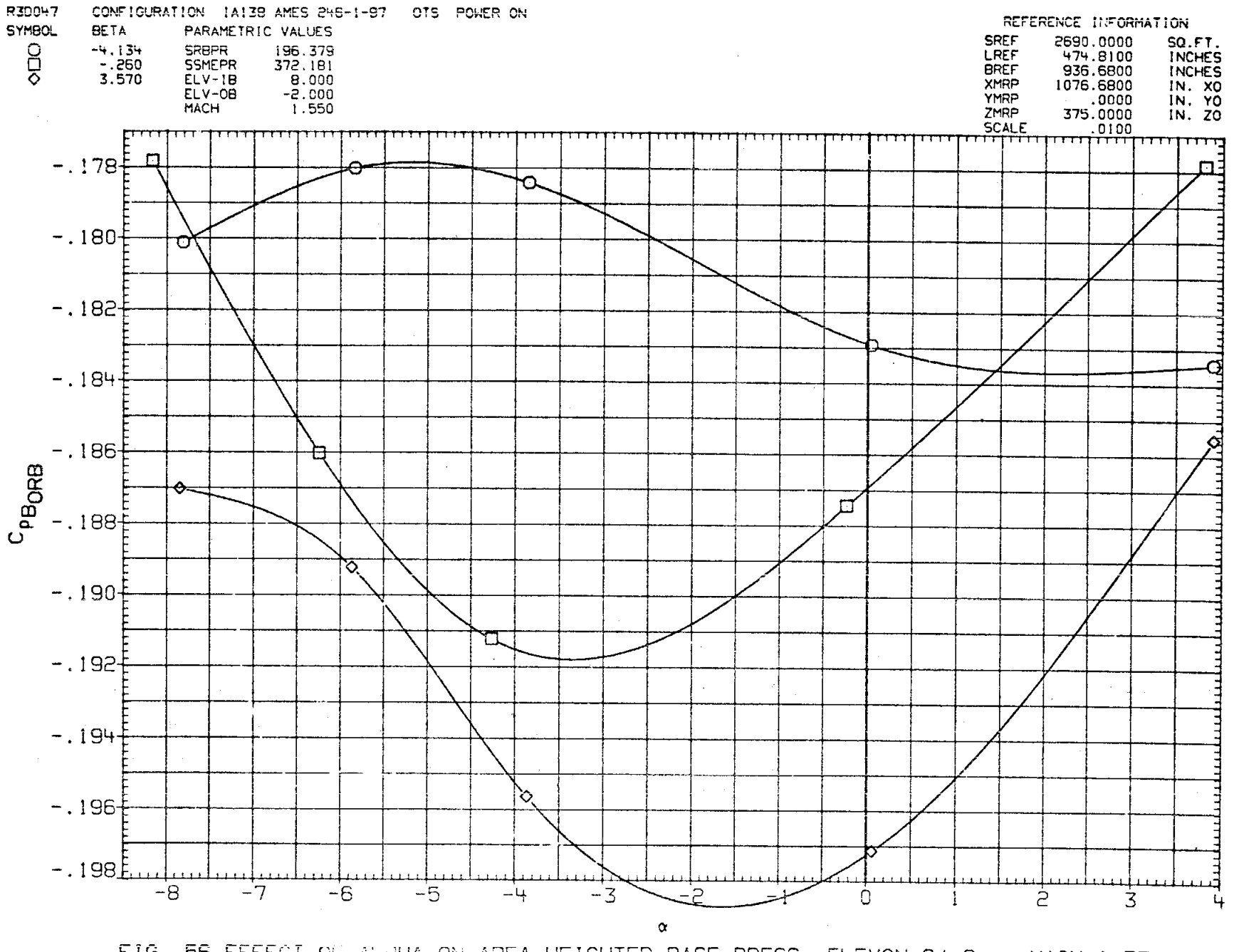

FIG. 56 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-2 MACH=1.55

DATE 17 OCT 78

R3D047 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.134
□	-.260
◇	3.570

PARAMETRIC VALUES

SRBPR	196.379
SSMEPR	372.181
ELV-IB	8.000
ELV-OB	-2.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

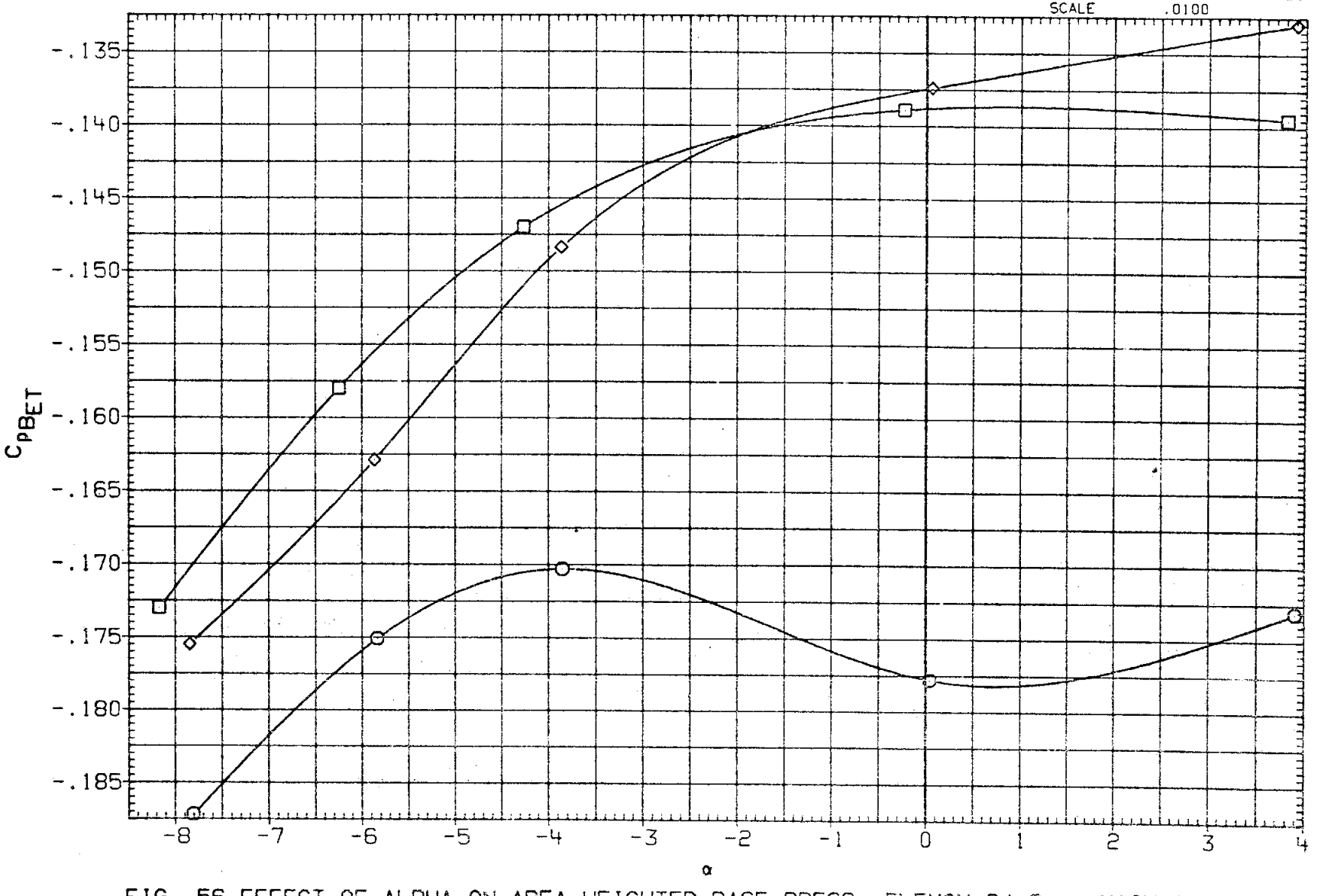

FIG. 56 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-2 MACH=1.55

DATE 17 OCT 78

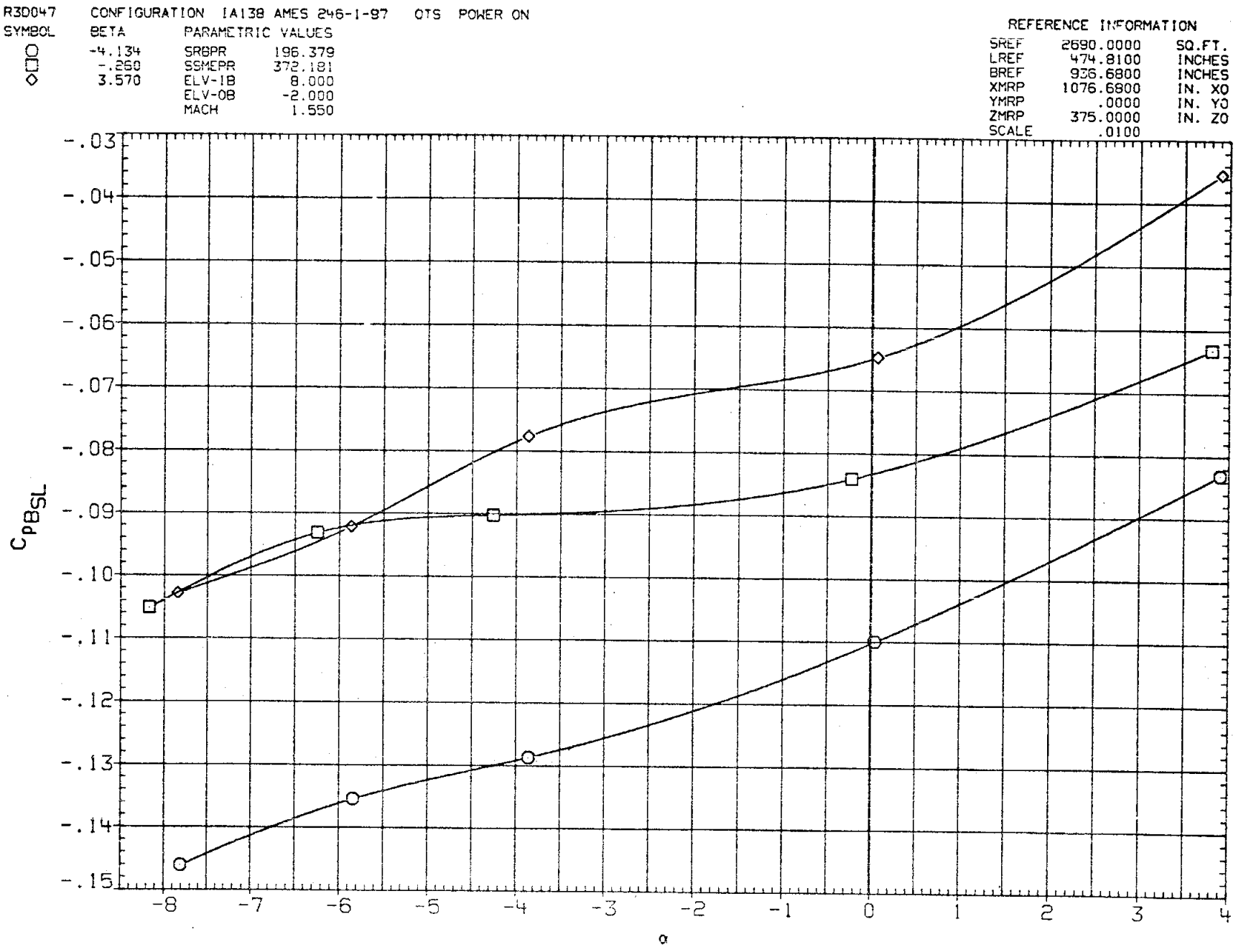

FIG. 56 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-2 MACH=1.55

DATE 17 OCT 78

R3D047 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.134
□	-.260
◇	3.570

PARAMETRIC VALUES

SRBPR	196.379
SSMEPR	372.181
ELV-IB	8.000
ELV-OB	-2.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

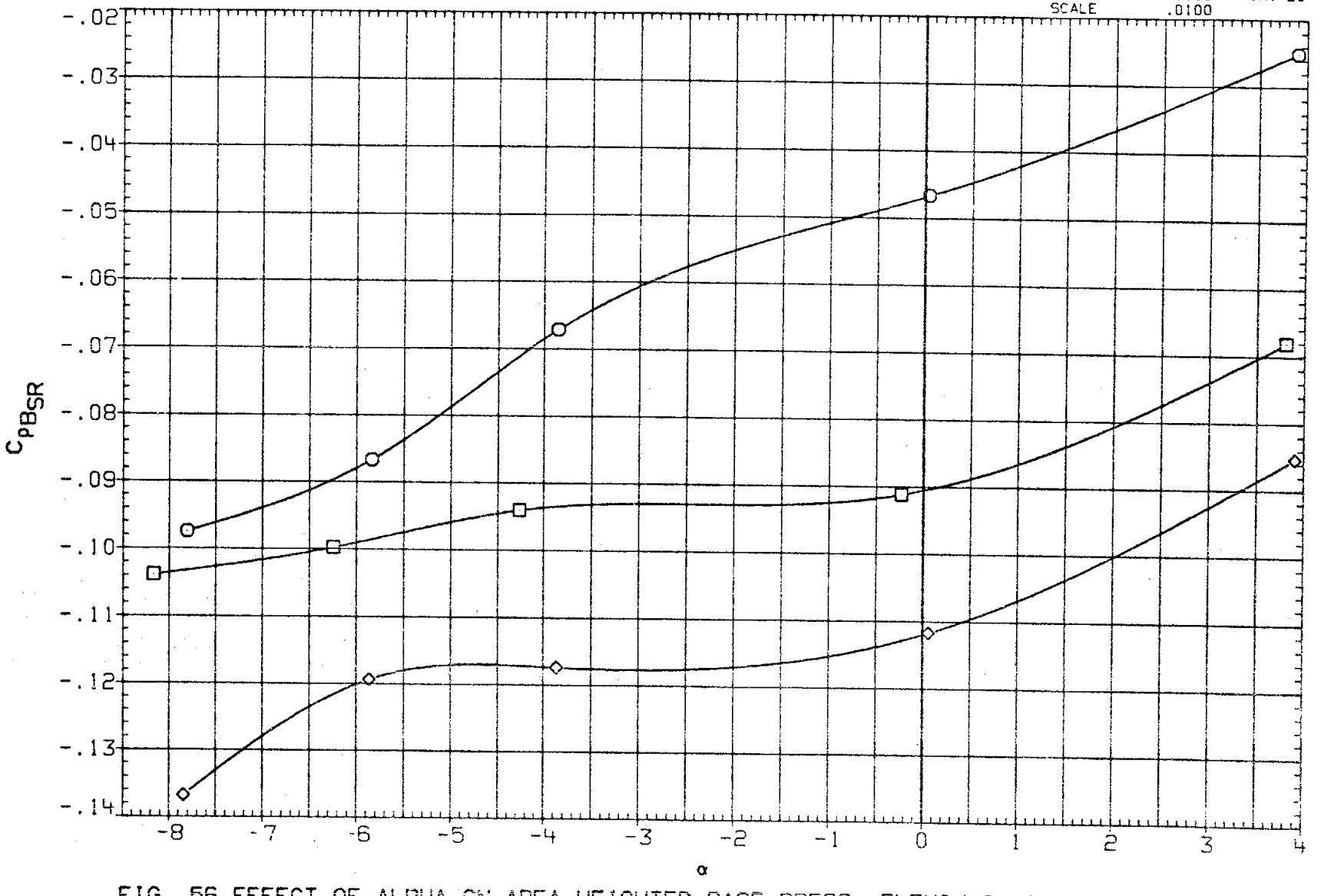

FIG. 56 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-2 MACH=1.55

DATE 17 OCT 78

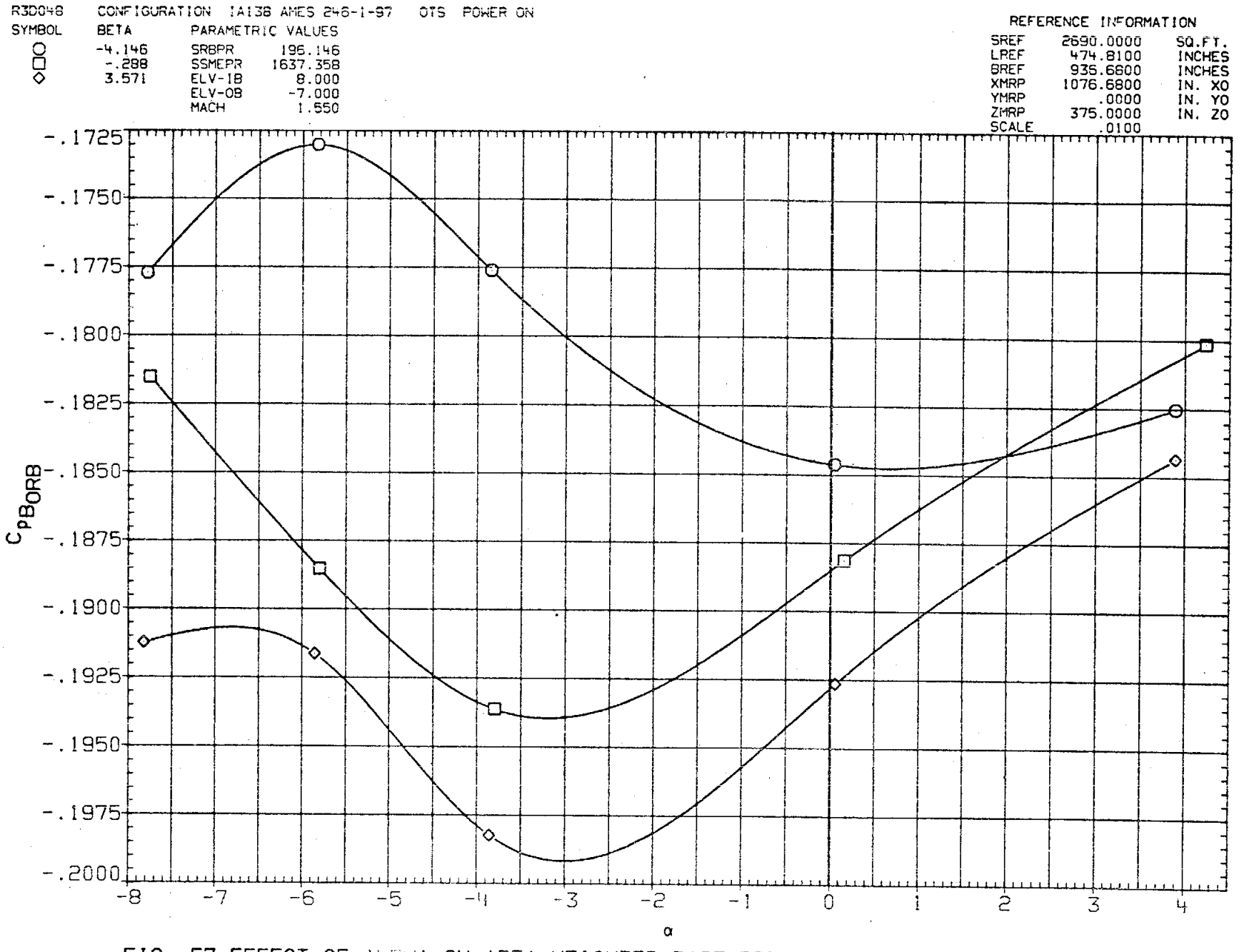

FIG. 57 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-7 MACH=1.55

R3D048 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.146
□	-.288
◇	3.571

PARAMETRIC VALUES

SRBPR	196.146
SSMEPR	1637.358
ELV-IB	8.000
ELV-OB	-7.000
MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

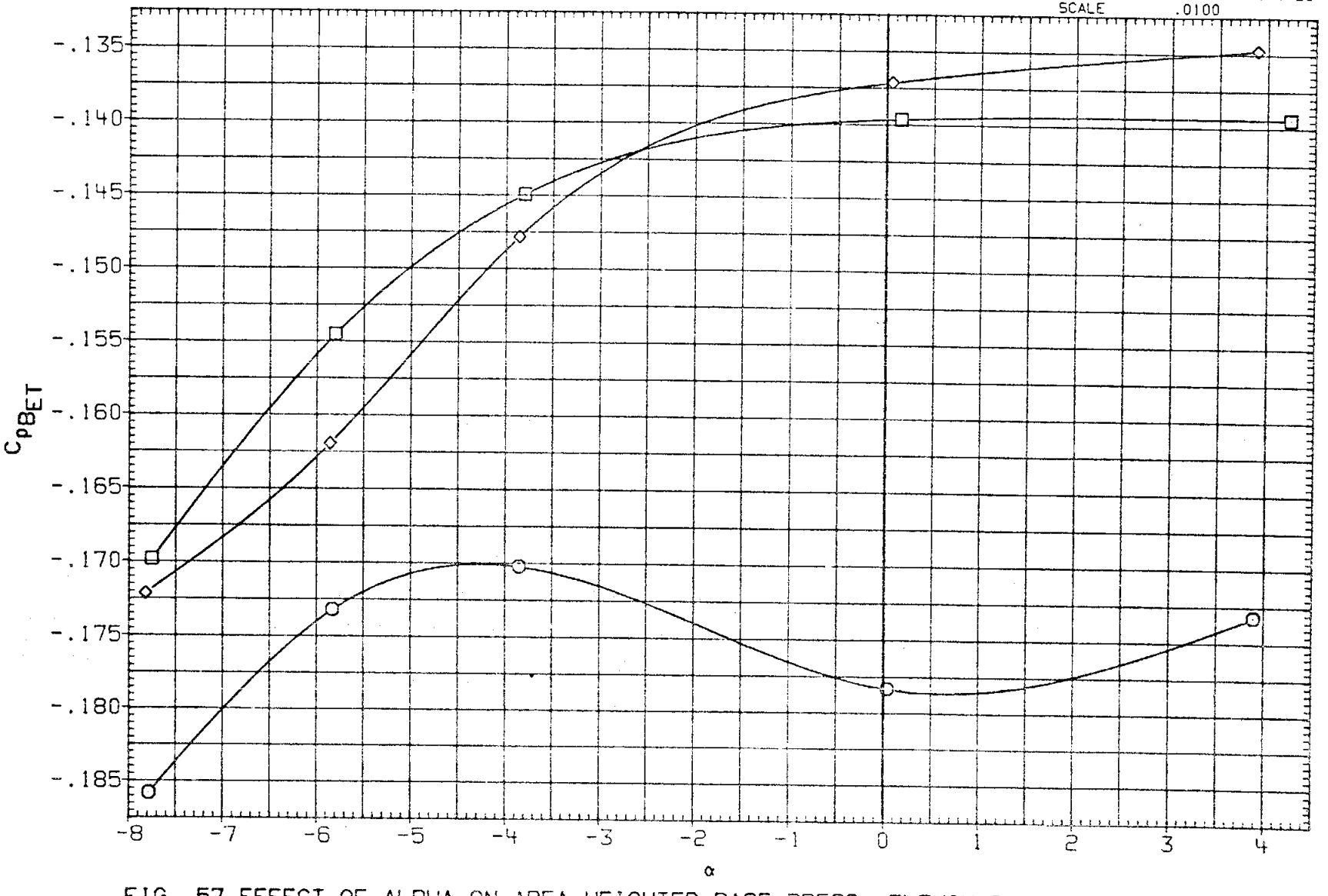

FIG. 57 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-7 MACH=1.55

DATE 17 OCT 78

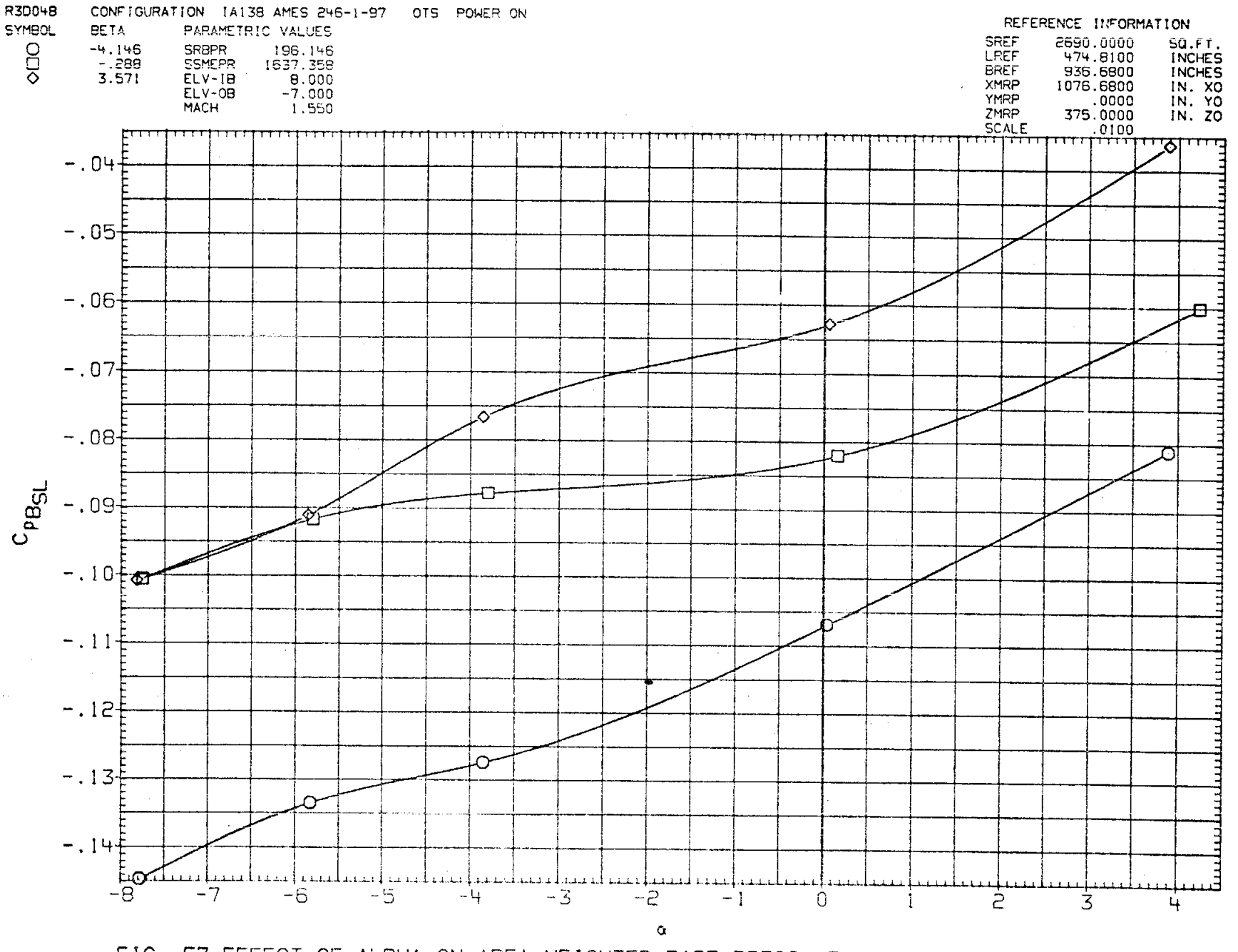

FIG. 57 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-7 MACH=1.55

DATE 17 OCT 78

R3D048 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.146	SRBPR	196.146
□	-.288	SSMEPR	1637.358
◇	3.571	ELV-IB	8.000
		ELV-OB	-7.000
		MACH	1.550

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

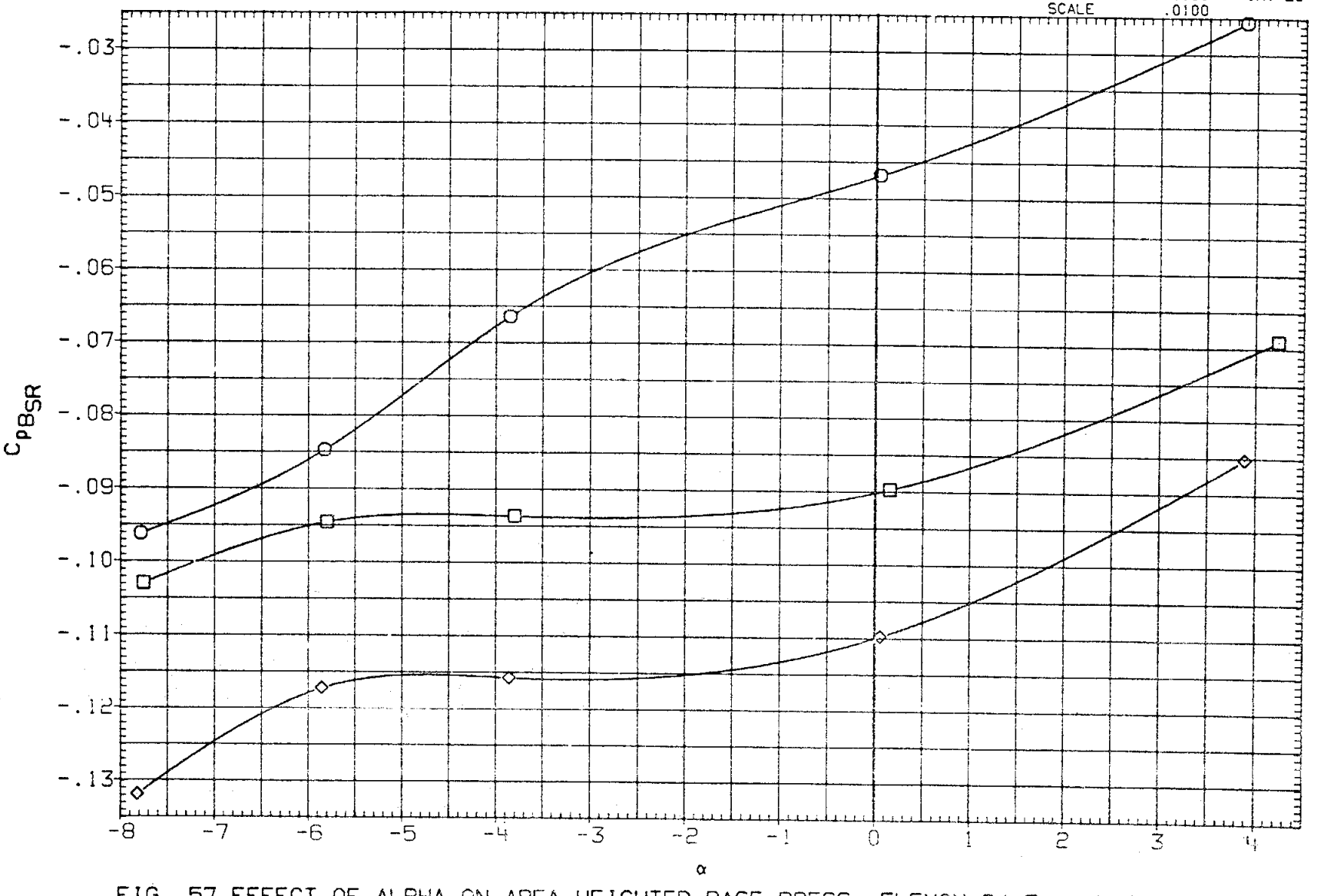

FIG. 57 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=8/-7 MACH=1.55

DATE 17 OCT 78

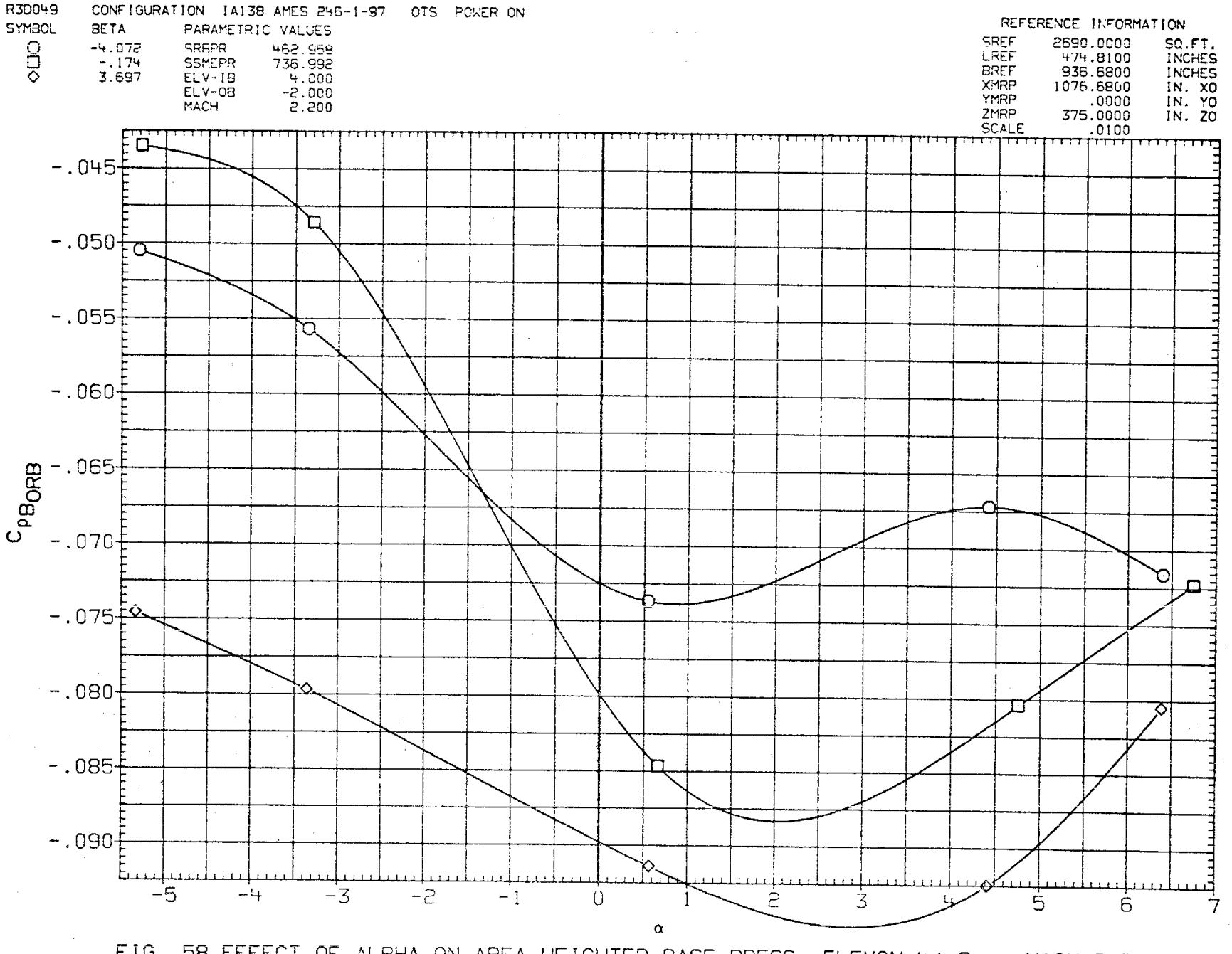

FIG. 58 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS., ELEVON=4/-2 MACH=2.2

DATE 17 OCT 78

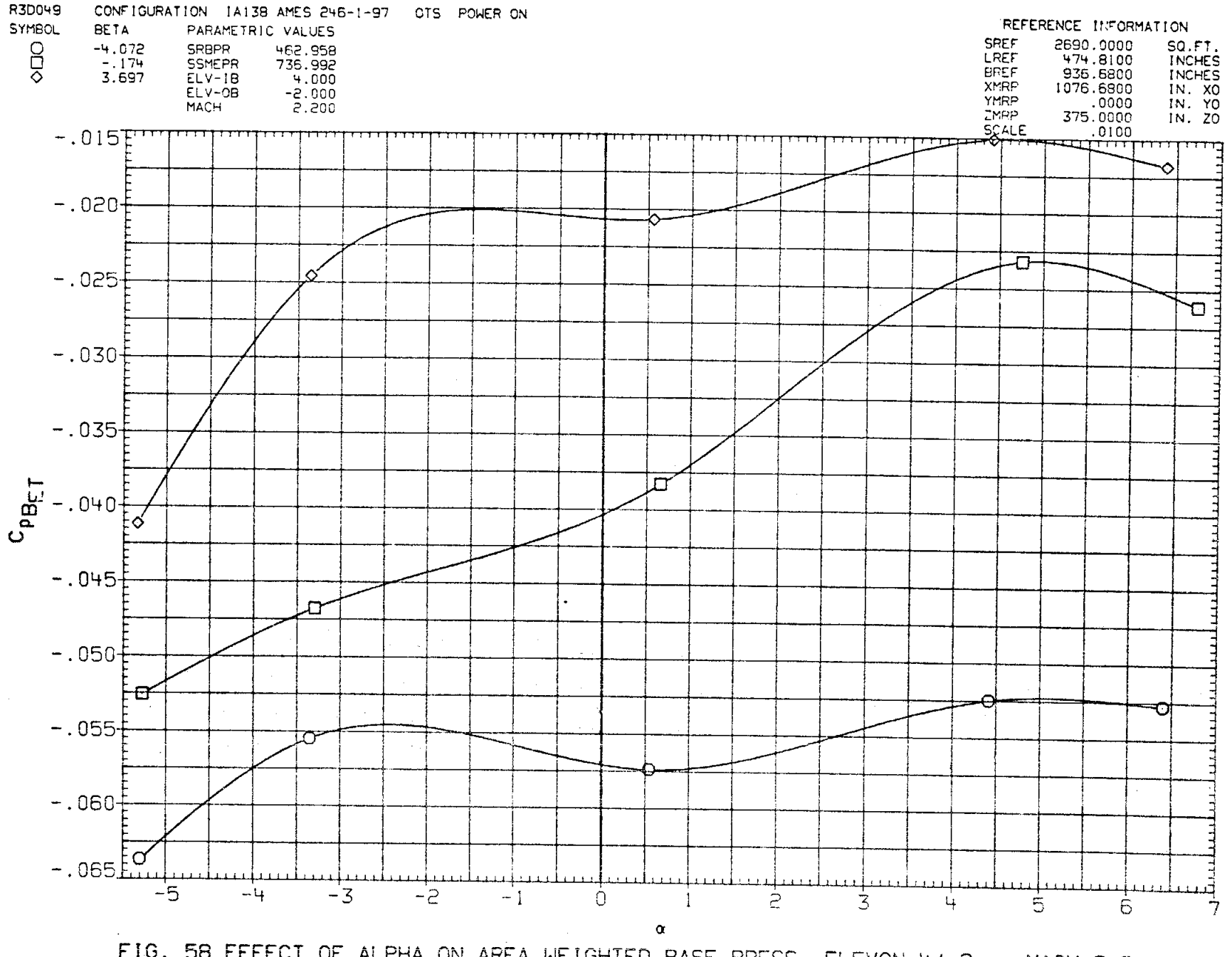

FIG. 58 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.2

DATE 17 OCT 78

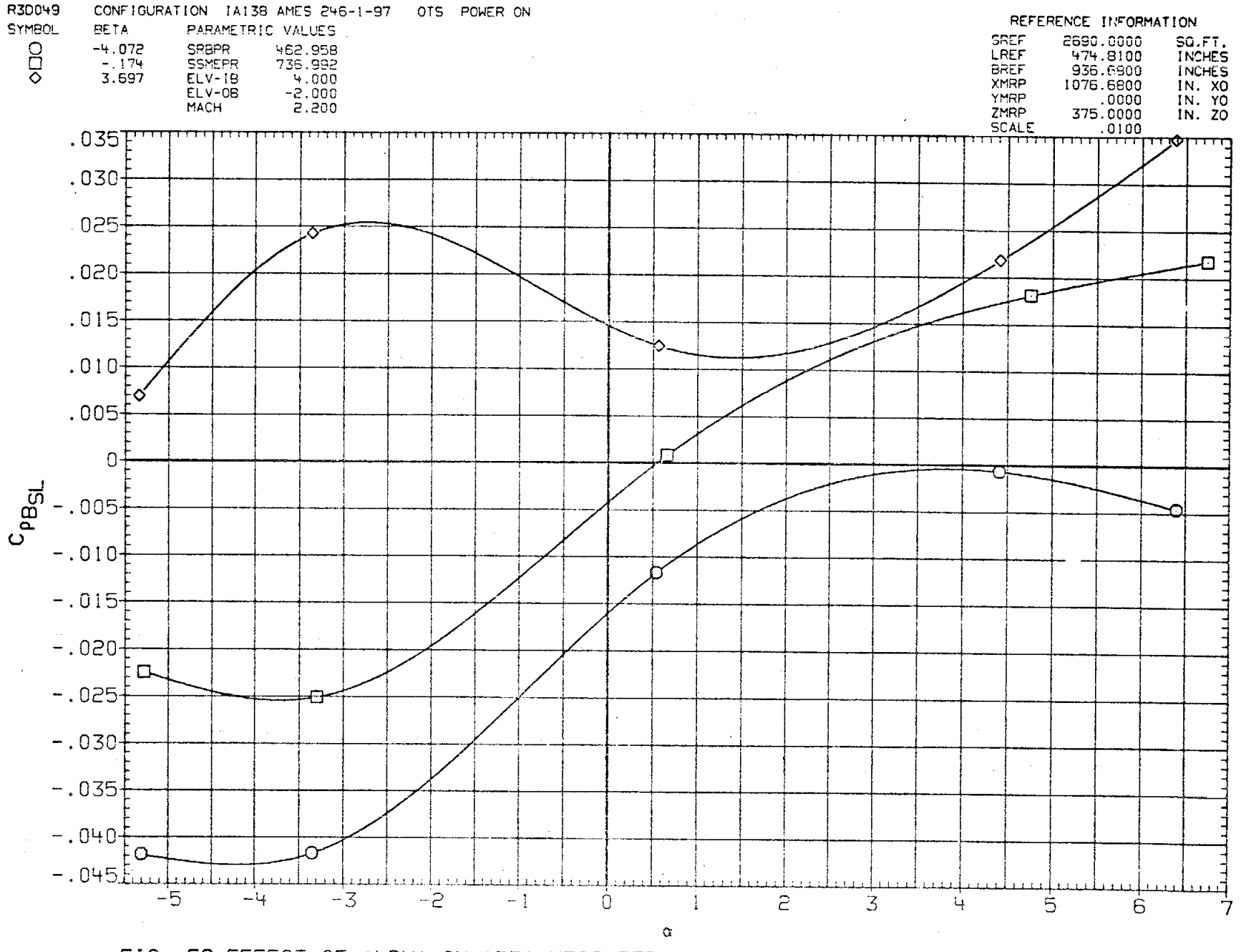

FIG. 58 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON +4/-2 MACH=2.2

DATE 17 OCT 78

R3D049 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.072	SRBPR	462.958
□	-.174	SSMEPR	736.992
◇	3.697	ELV-IB	4.000
		ELV-OB	-2.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

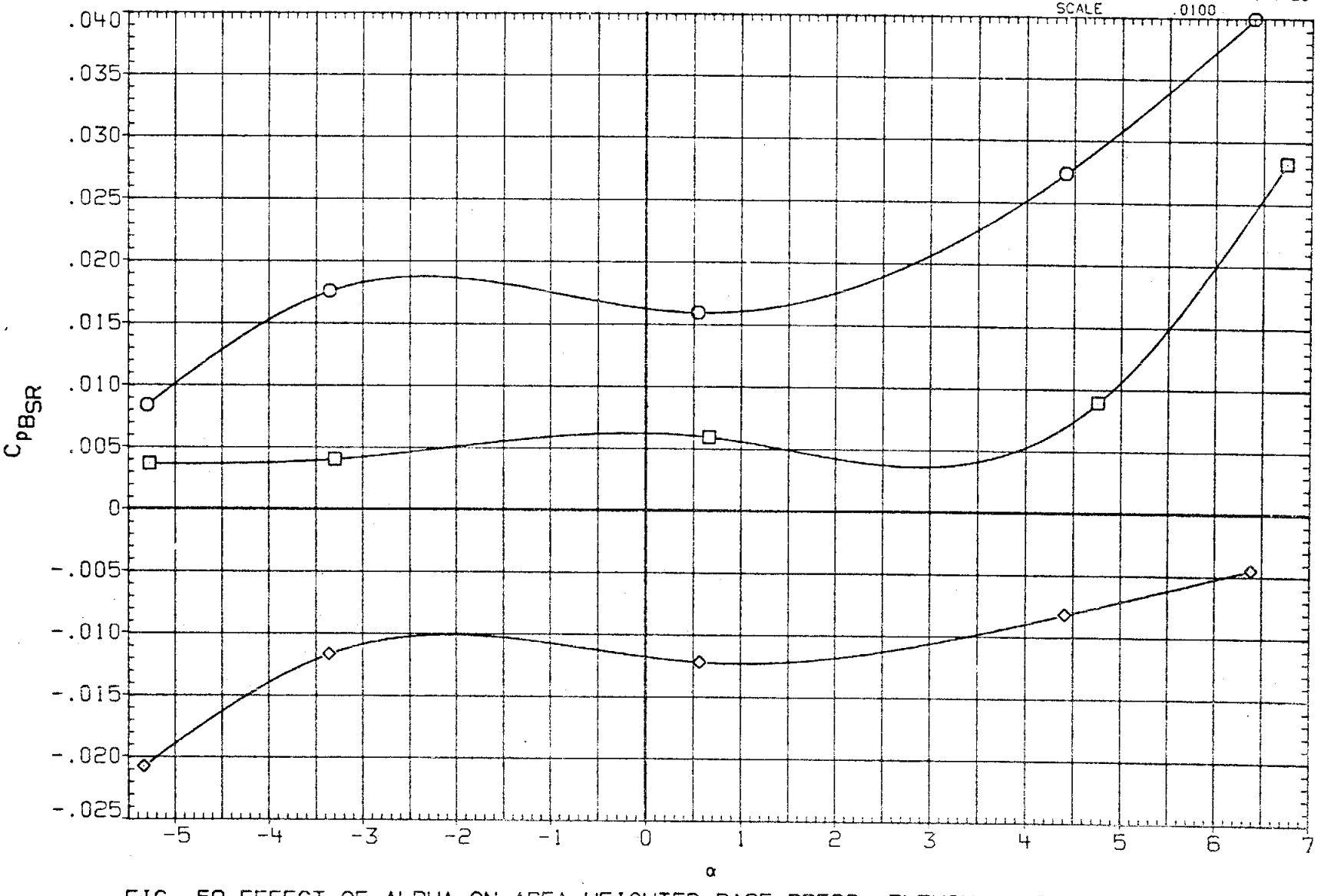

FIG. 58 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.2

DATE 17 OCT 78

R30050 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.020
□	-.126
◇	3.742

PARAMETRIC VALUES	
SRBPR	748.805
SSMEPR	1326.922
ELV-IB	4.000
ELV-OB	-2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

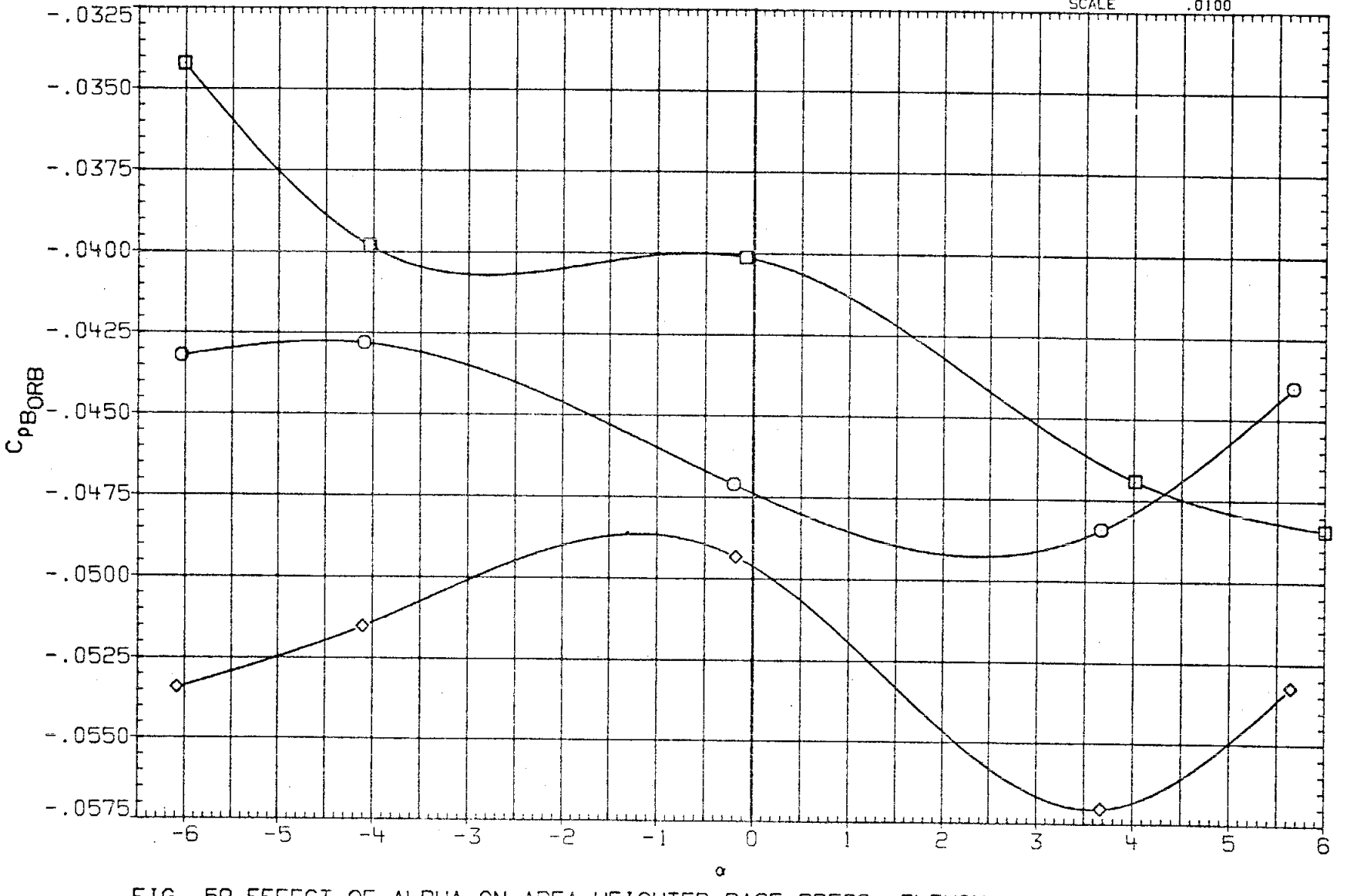

FIG. 59 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.5

DATE 17 OCT 78

R3D050 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
◇	-4.020
□	-.126
○	3.742

PARAMETRIC VALUES

SRBPR	748.805
SSMEPR	1326.922
ELV-IB	4.000
ELV-OB	-2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

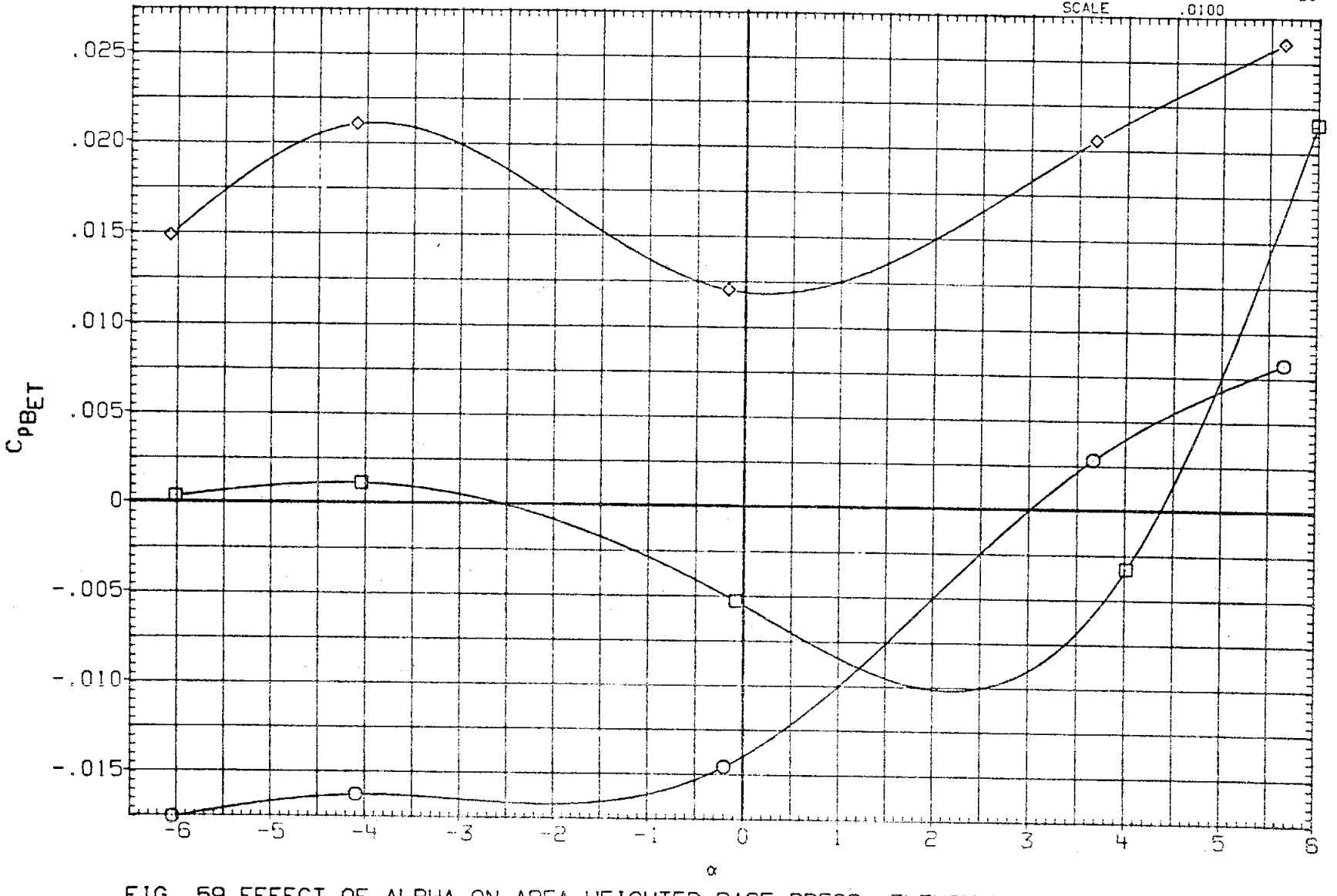

FIG. 59 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.5

DATE 17 OCT 78

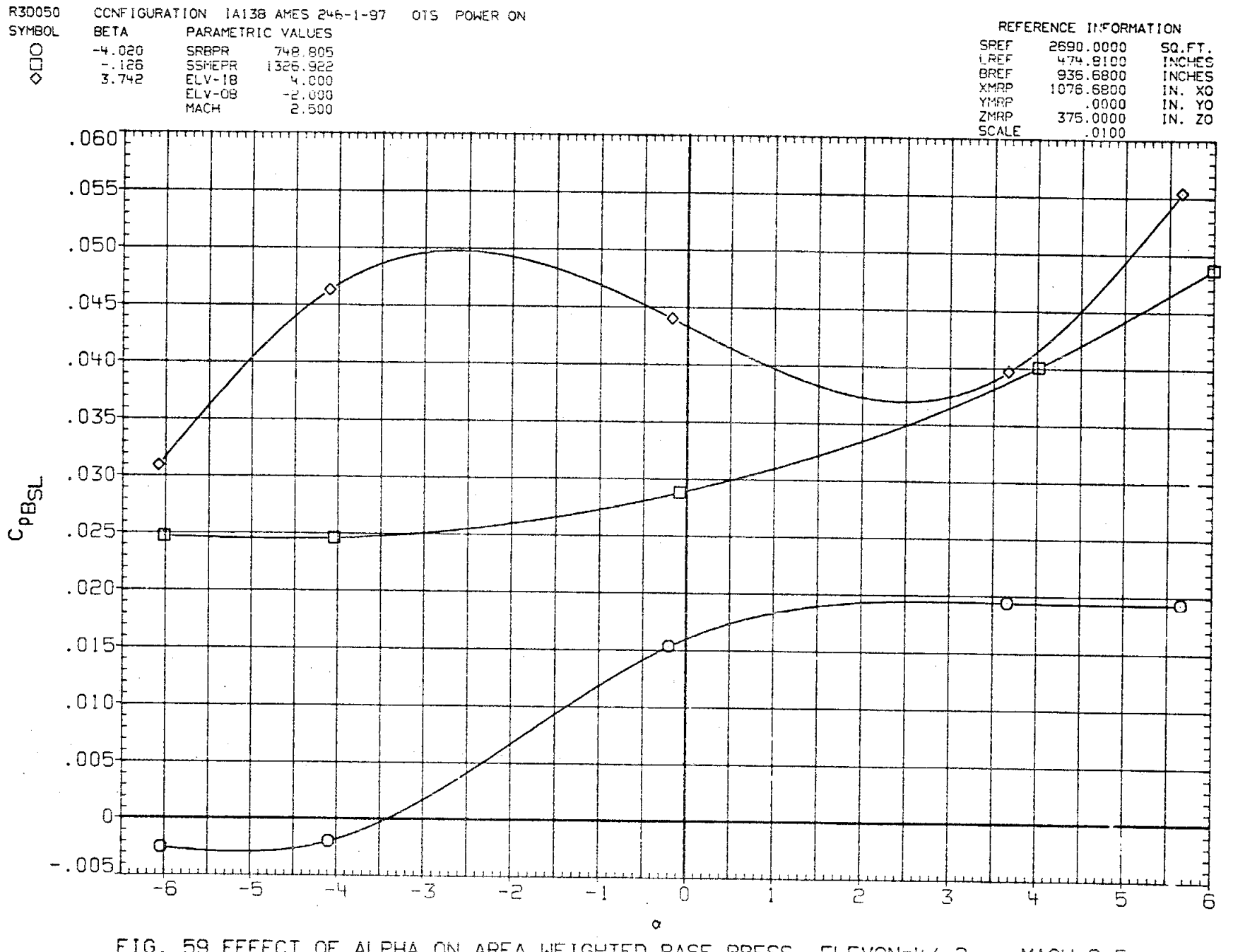

FIG. 59 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.5

DATE 17 OCT 78

R30050 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.020
□	-.126
◇	3.742

PARAMETRIC VALUES

SRBPR	748.805
SSMEPR	1326.922
ELV-IB	4.000
ELV-OB	-2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

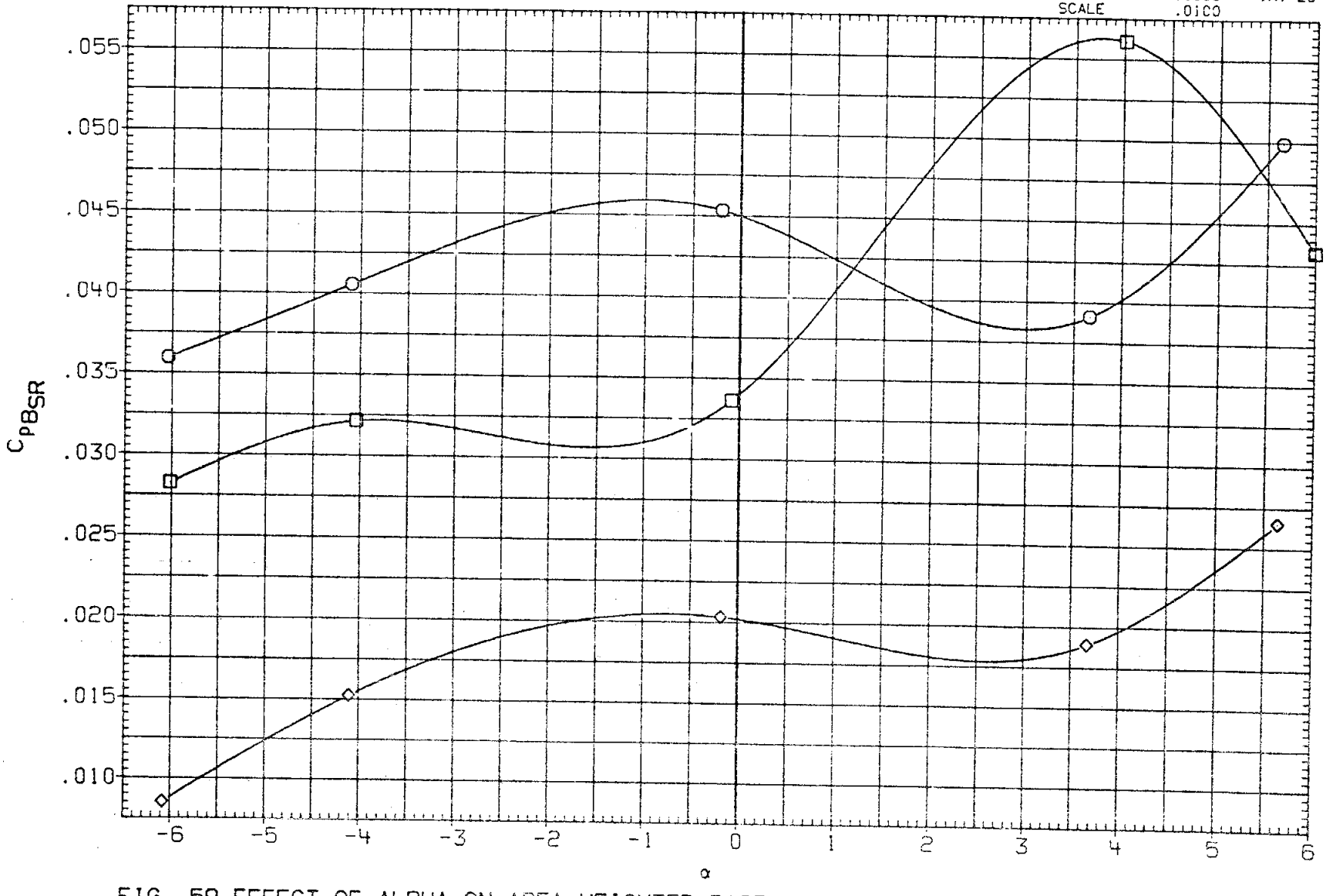

FIG. 59 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-2 MACH=2.5

DATE 17 OCT 78

R3D051 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.328	SRBPR	273.294
□	-.208	SSMEPR	477.177
◇	3.833	ELV-IB	4.000
		ELV-OB	-5.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

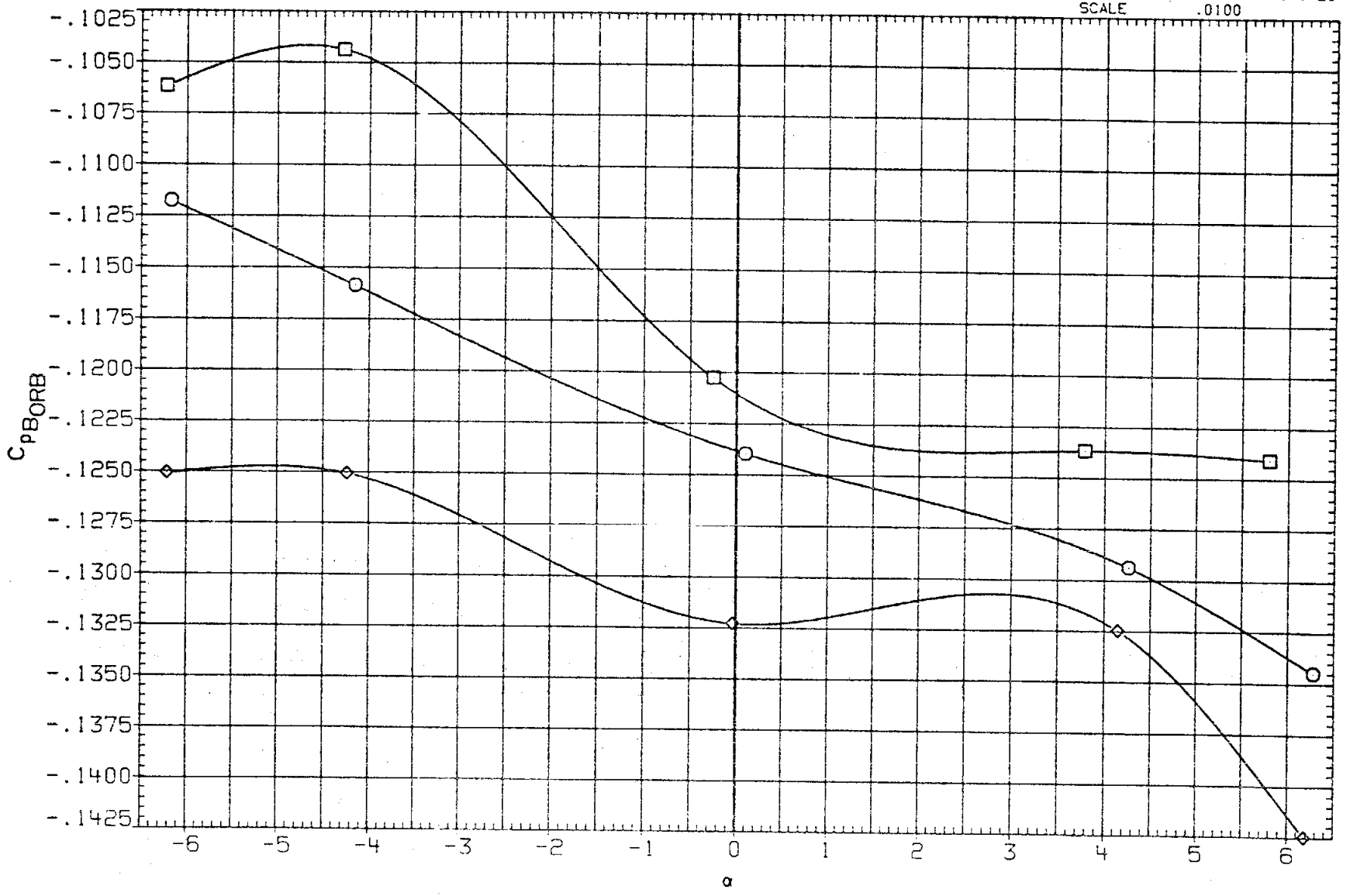

FIG. 60 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=1.8

DATE 17 OCT 78

R3D051 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
◇□○	-4.328	SREPR	273.294
	-.208	SSMEPR	477.177
	3.833	ELV-IB	4.000
		ELV-OB	-5.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

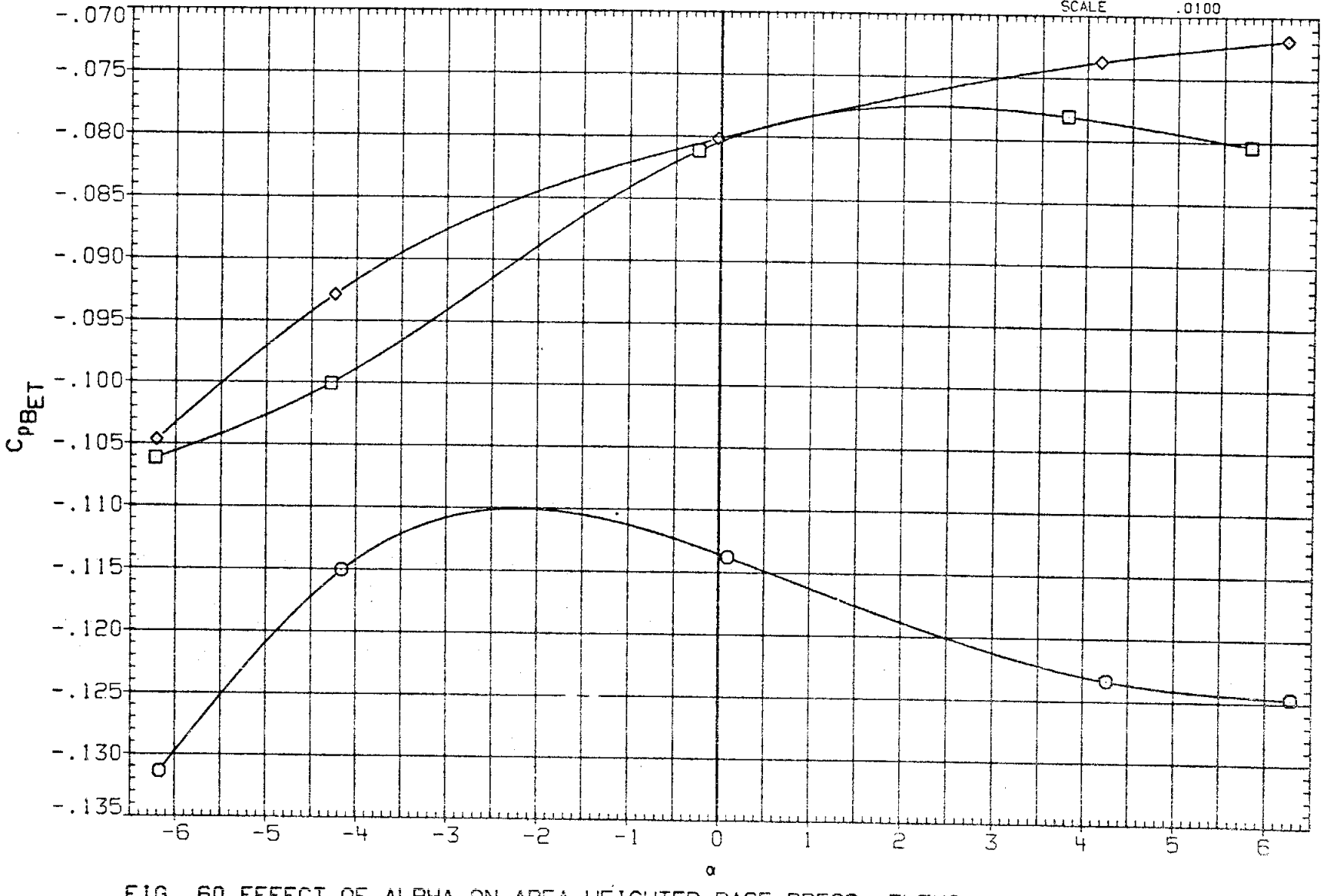

FIG. 60 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=1.8

DATE 17 OCT 78

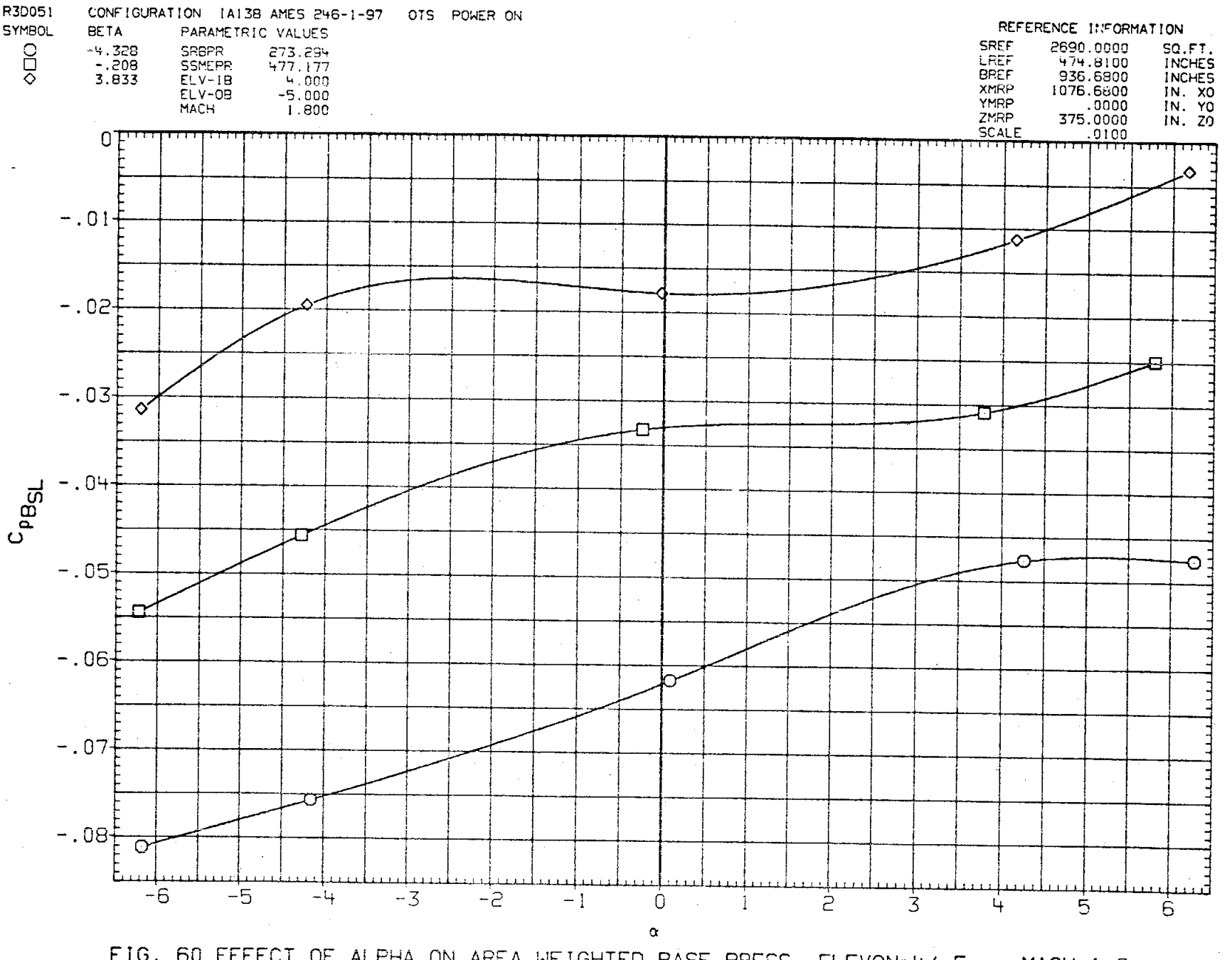

FIG. 60 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=1.8

DATE 17 OCT 78

R3D051 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.328	SRBPR	273.294
□	-.208	SSMEPR	477.177
◇	3.833	ELV-IB	4.000
		ELV-OB	-5.000
		MACH	1.800

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

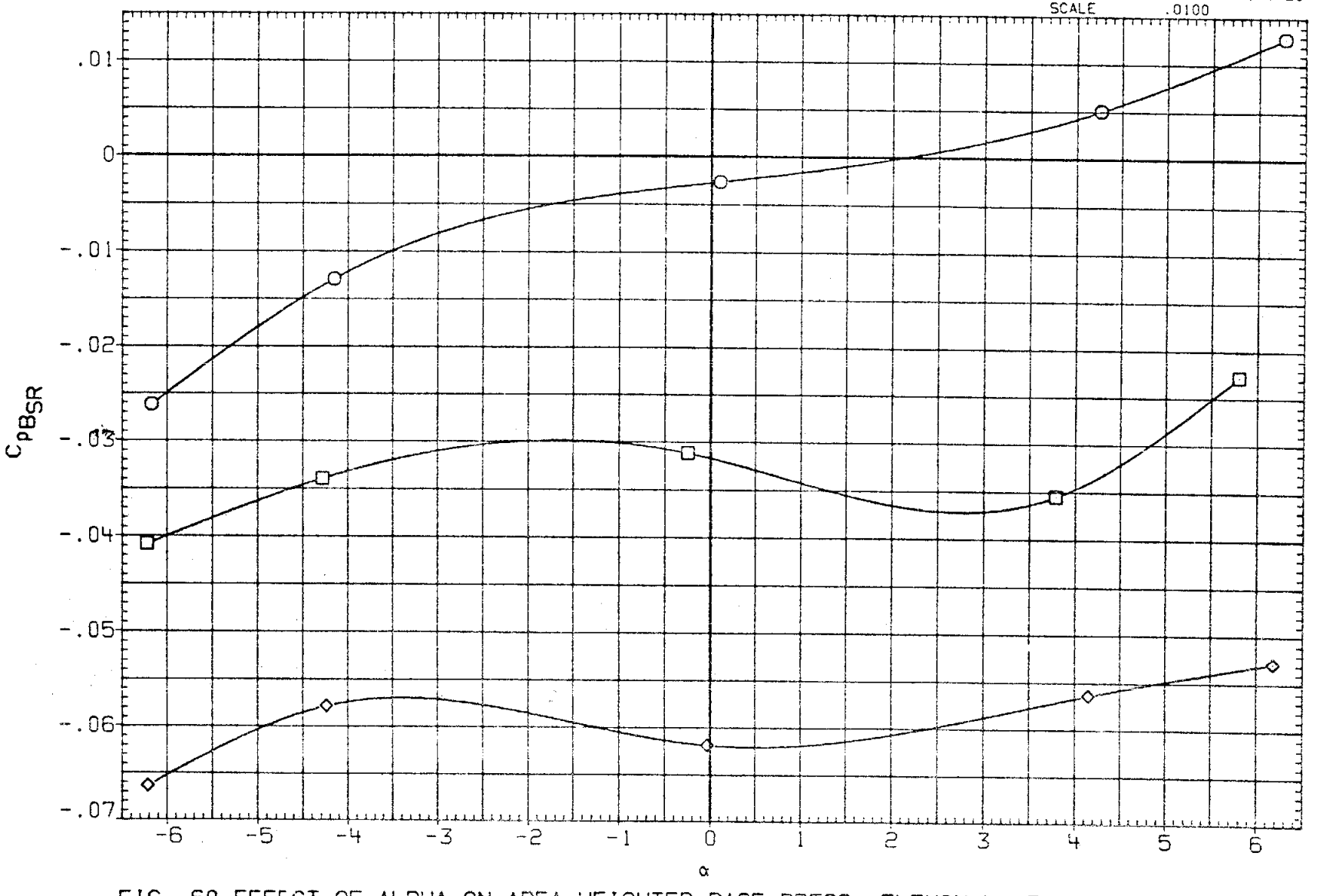

FIG. 60 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=1.8

DATE 17 OCT 78

R3D052 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
□	-4.079
○	-.174
◇	3.839

PARAMETRIC VALUES

SRBPR	464.163
SSMEPR	739.259
ELV-IB	4.000
ELV-OB	-5.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

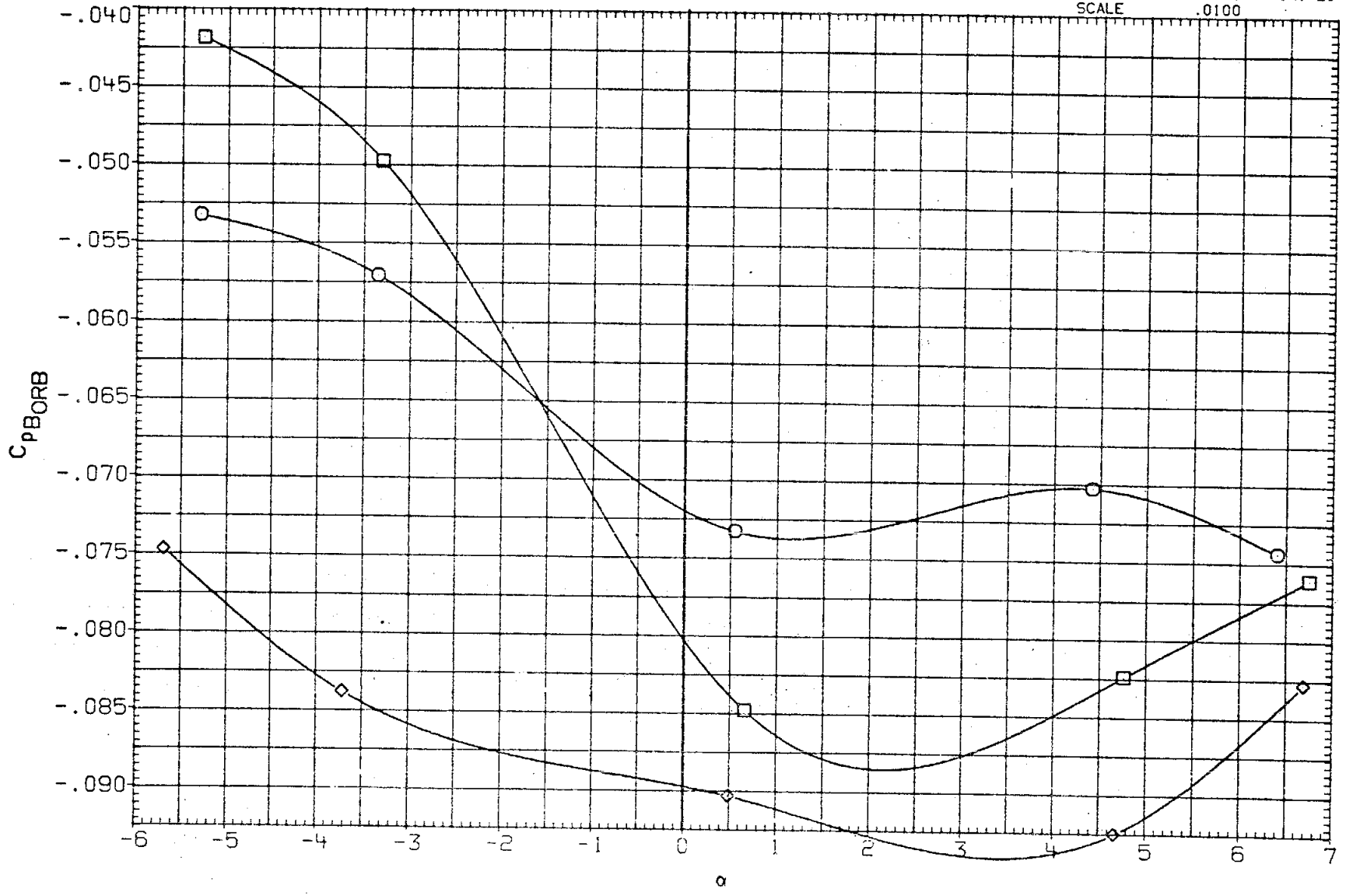

FIG. 61 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.2

DATE 17 OCT 78

R3D052 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
◇	-4.079
□	-.174
○	3.839

PARAMETRIC VALUES

SRBPR	464.163
SSMEPR	739.259
ELV-IB	4.000
ELV-OB	-5.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

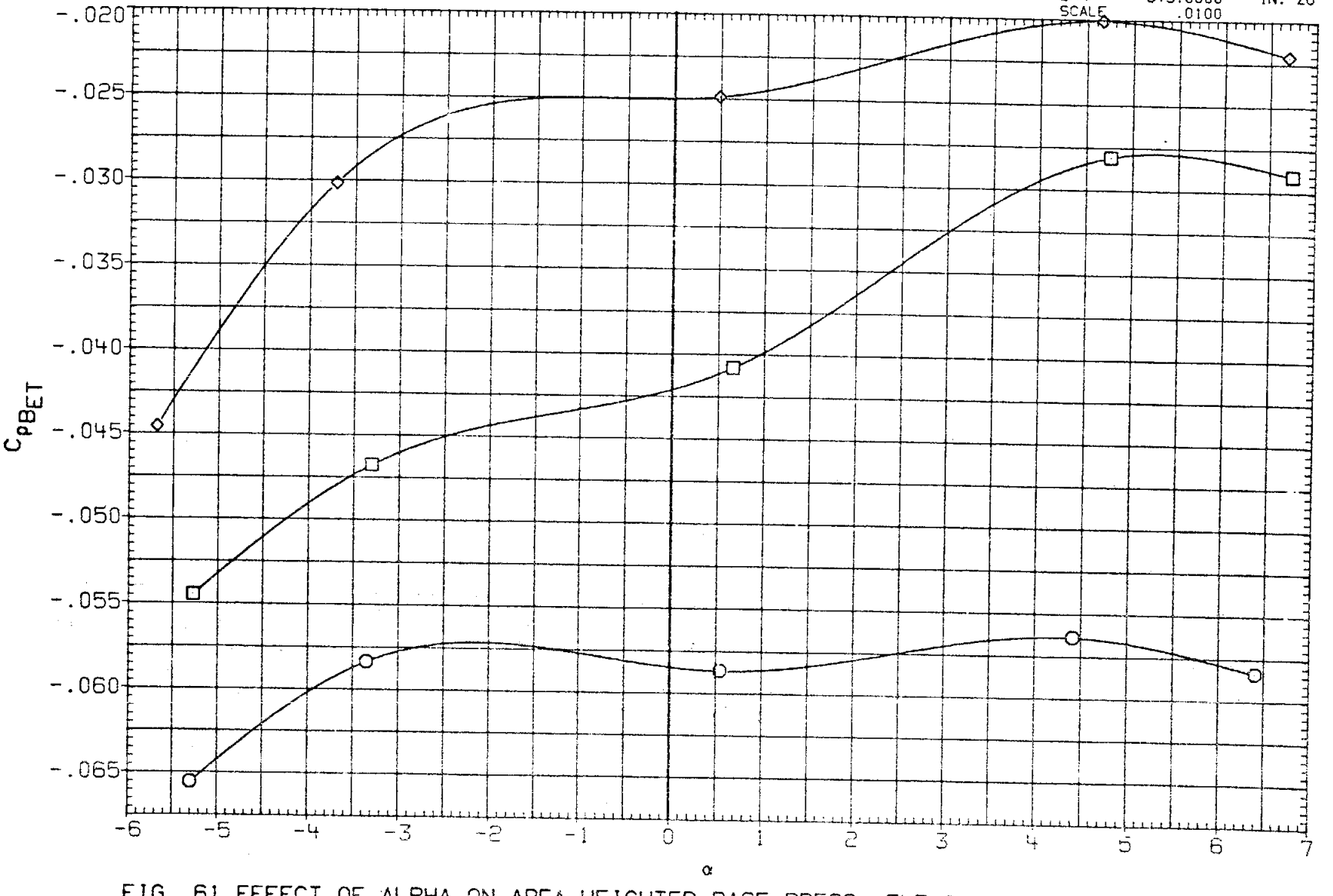

FIG. 61 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.2

DATE 17 OCT 78

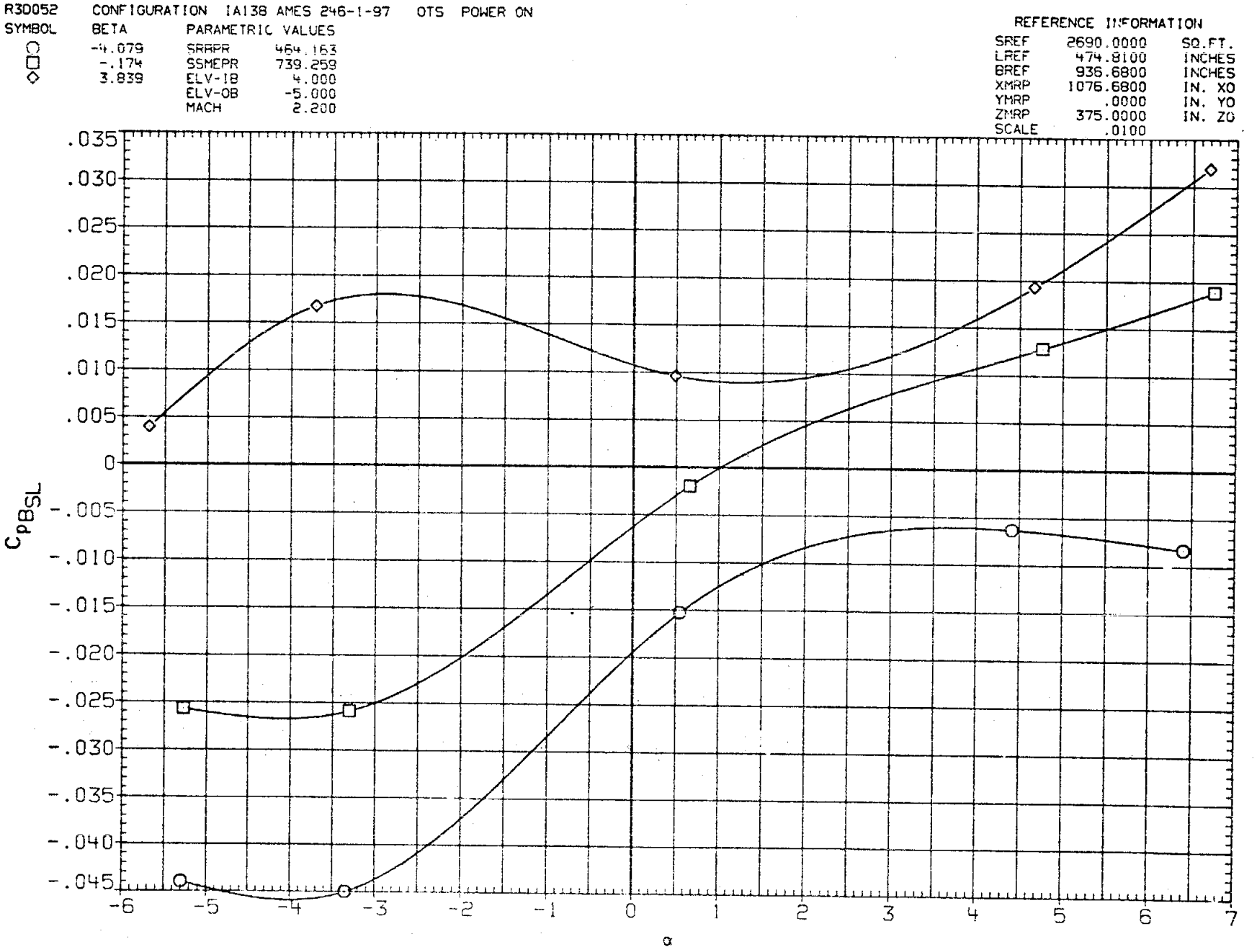

FIG. 61 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.2

DATE 17 OCT 78

R3D052 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.079	SRBPR	464.163
□	-.174	SSMEPR	739.259
◇	3.839	ELV-IB	4.000
		ELV-OB	-5.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

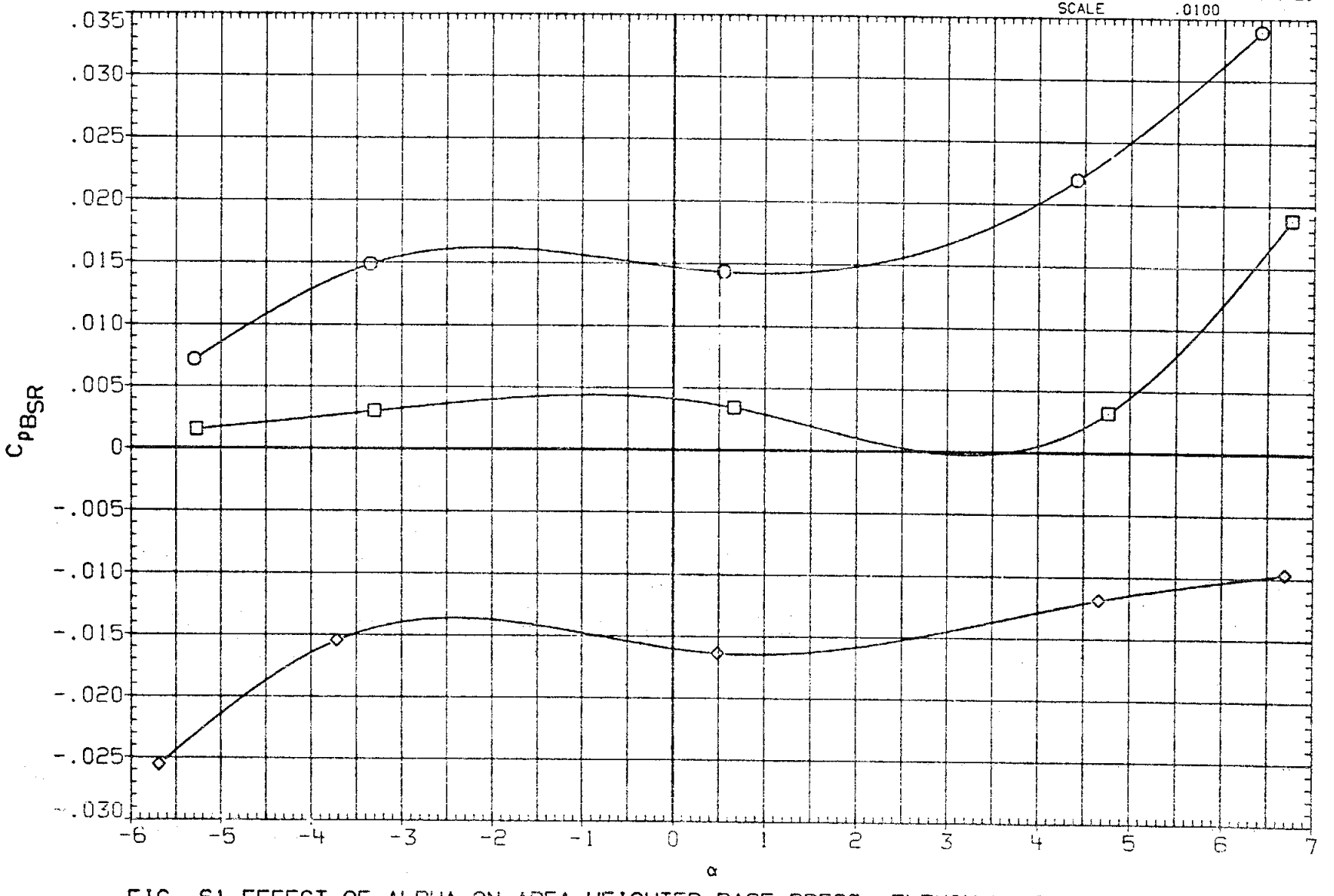

FIG. 61 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.2

DATE 17 OCT 78

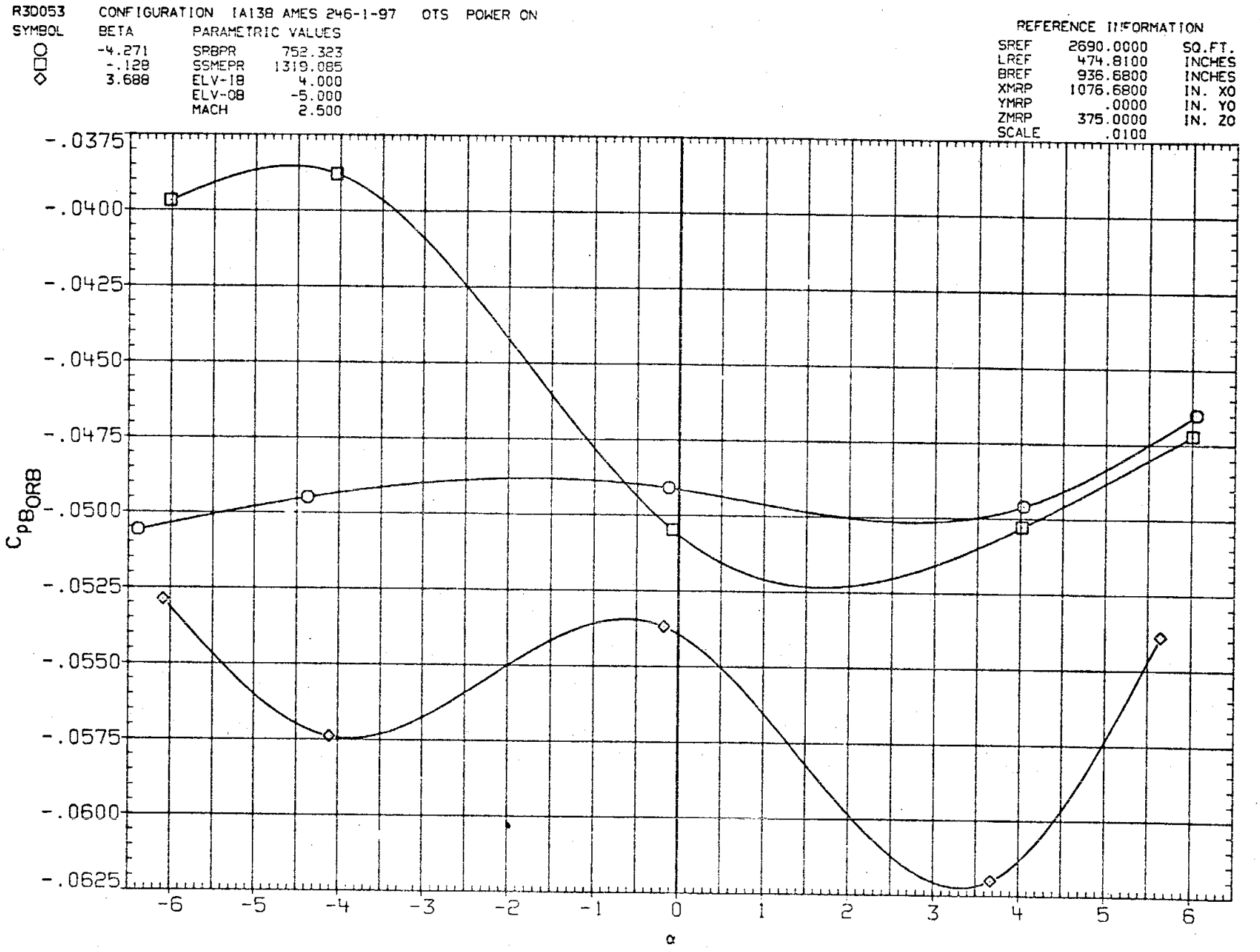

FIG. 62 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON-4/-5 MACH=2.5

DATE 17 OCT 78

R30053 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.271	SRBPR	752.323
□	-.128	SSMEPR	1319.085
◇	3.688	ELV-IB	4.000
		ELV-OB	-5.000
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

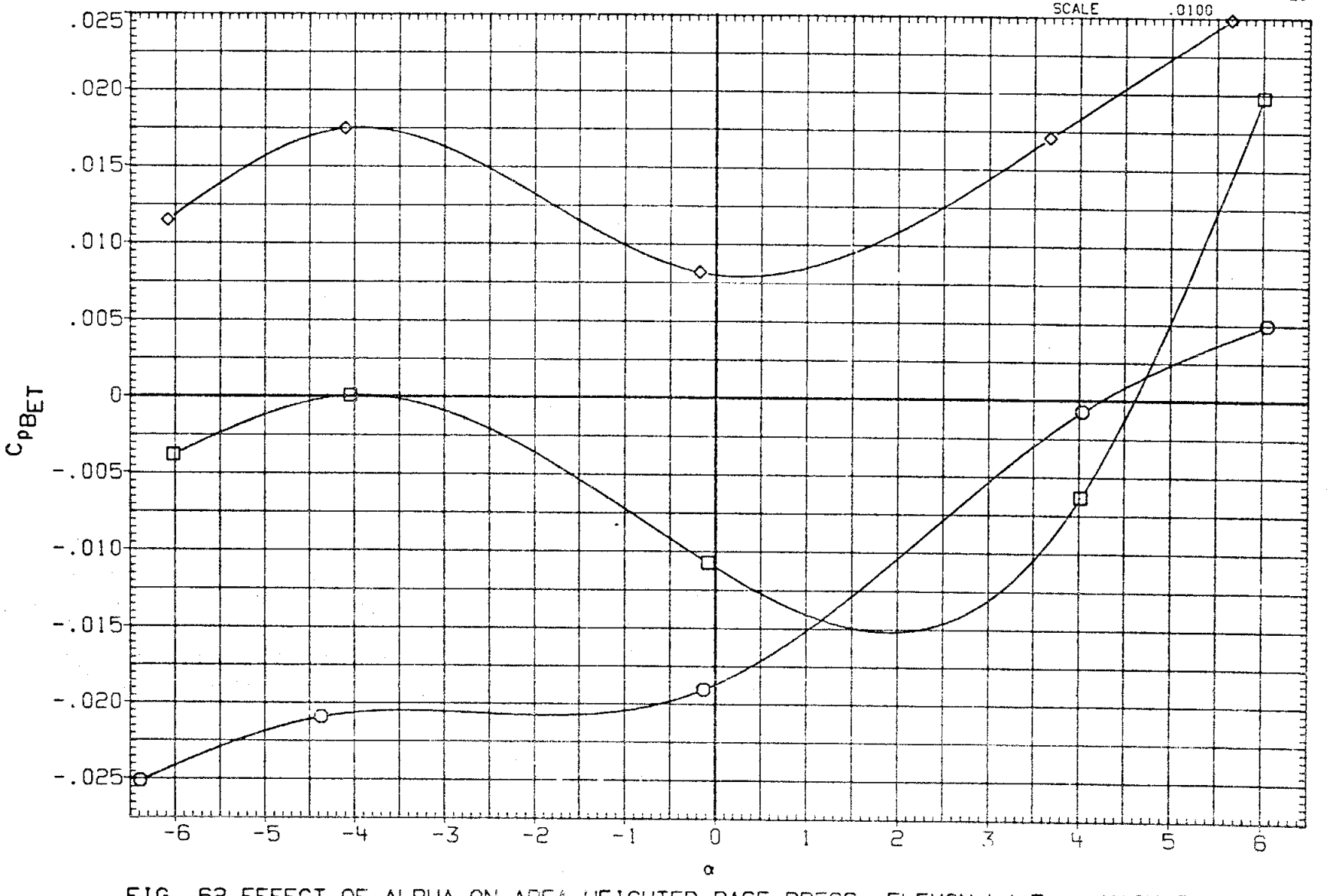

FIG. 62 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.5

DATE 17 OCT 78

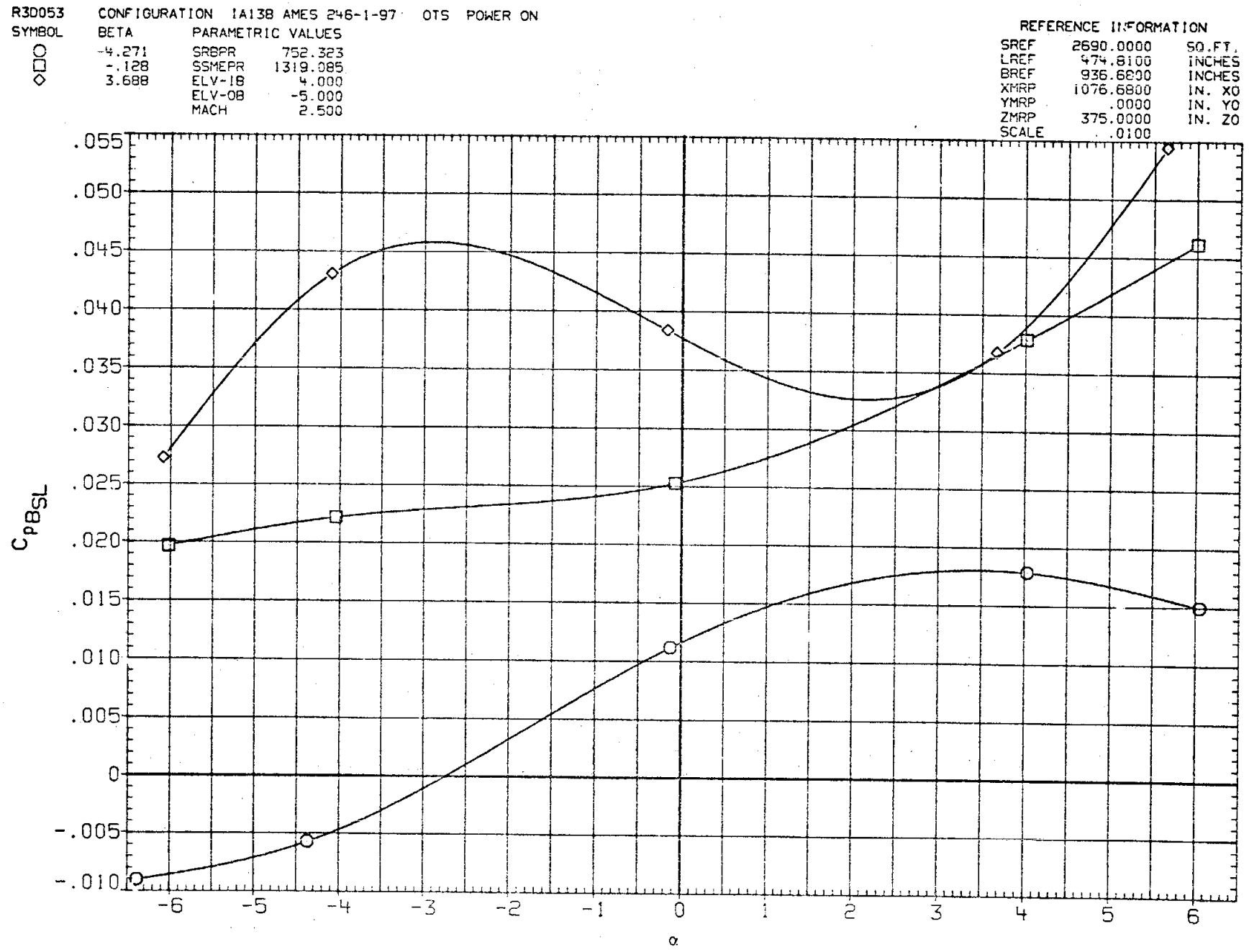

FIG. 62 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.5

DATE 17 OCT 78

R30053 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.271
□	-.128
◇	3.688

PARAMETRIC VALUES

SRBPR	752.323
SSMEPR	1319.085
ELV-IB	4.000
ELV-OB	-5.000
MACH	2.500

REFERENCE INFORMATION

SREF	2600.0000	SQ.FT
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

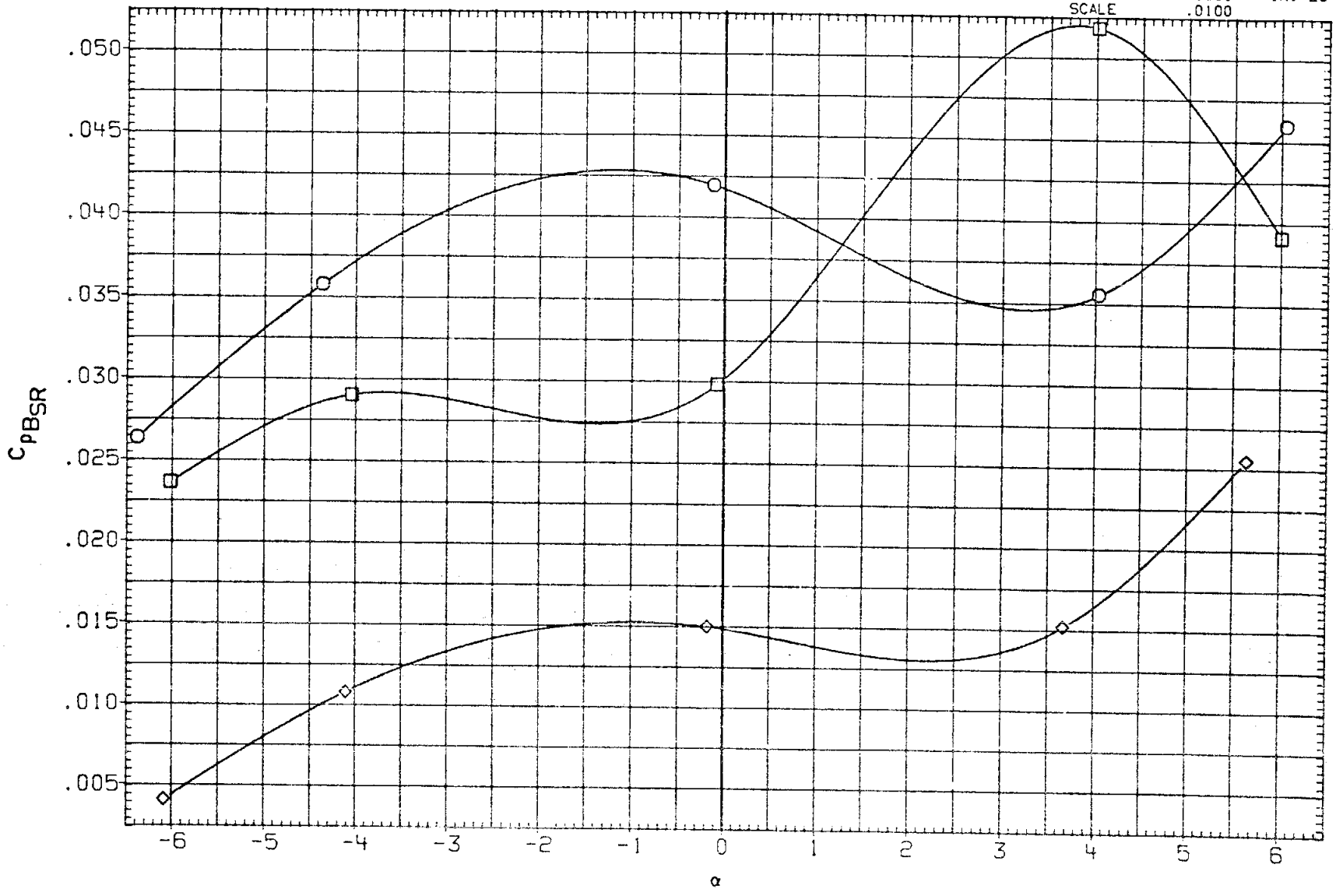

FIG. 62 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-5 MACH=2.5

DATE 17 OCT 78

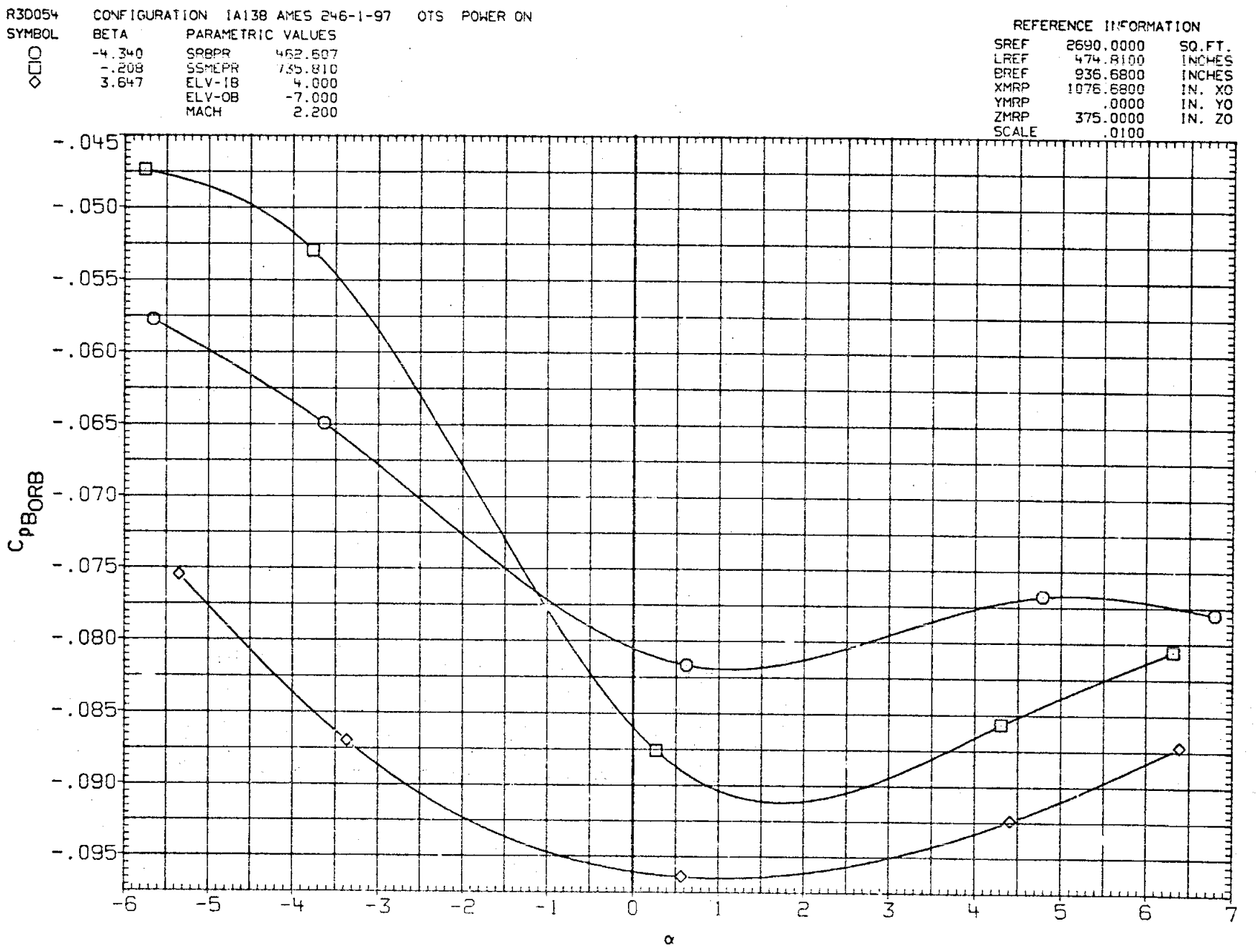

FIG. 63 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-7 MACH=2.2

DATE 17 OCT 78

R30054 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.340
□	-.208
◇	3.647

PARAMETRIC VALUES

SRBPR	462.607
SSMEPR	735.810
ELV-IB	4.000
ELV-OB	-7.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

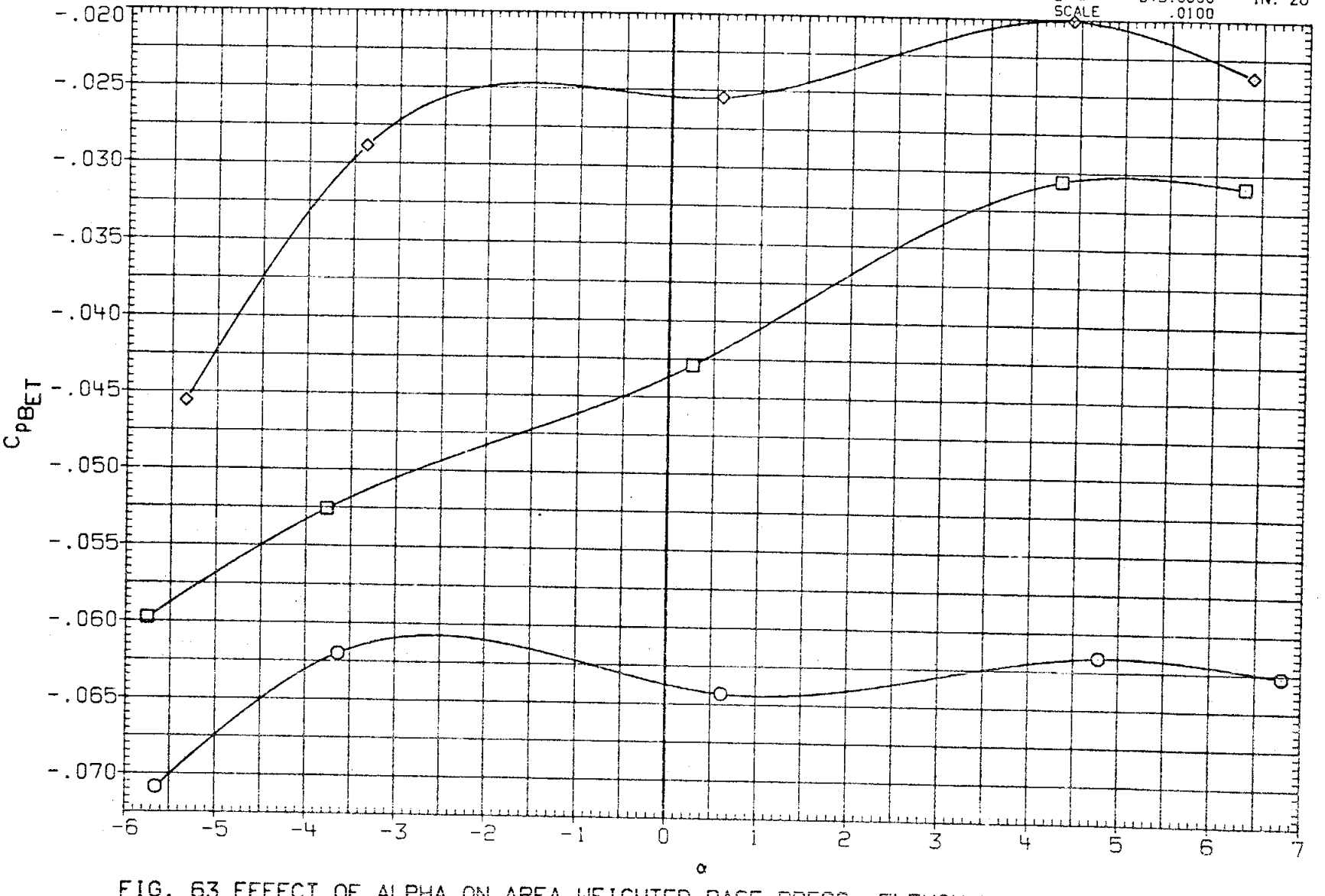

FIG. 63 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-7 MACH=2.2

DATE 17 OCT 78

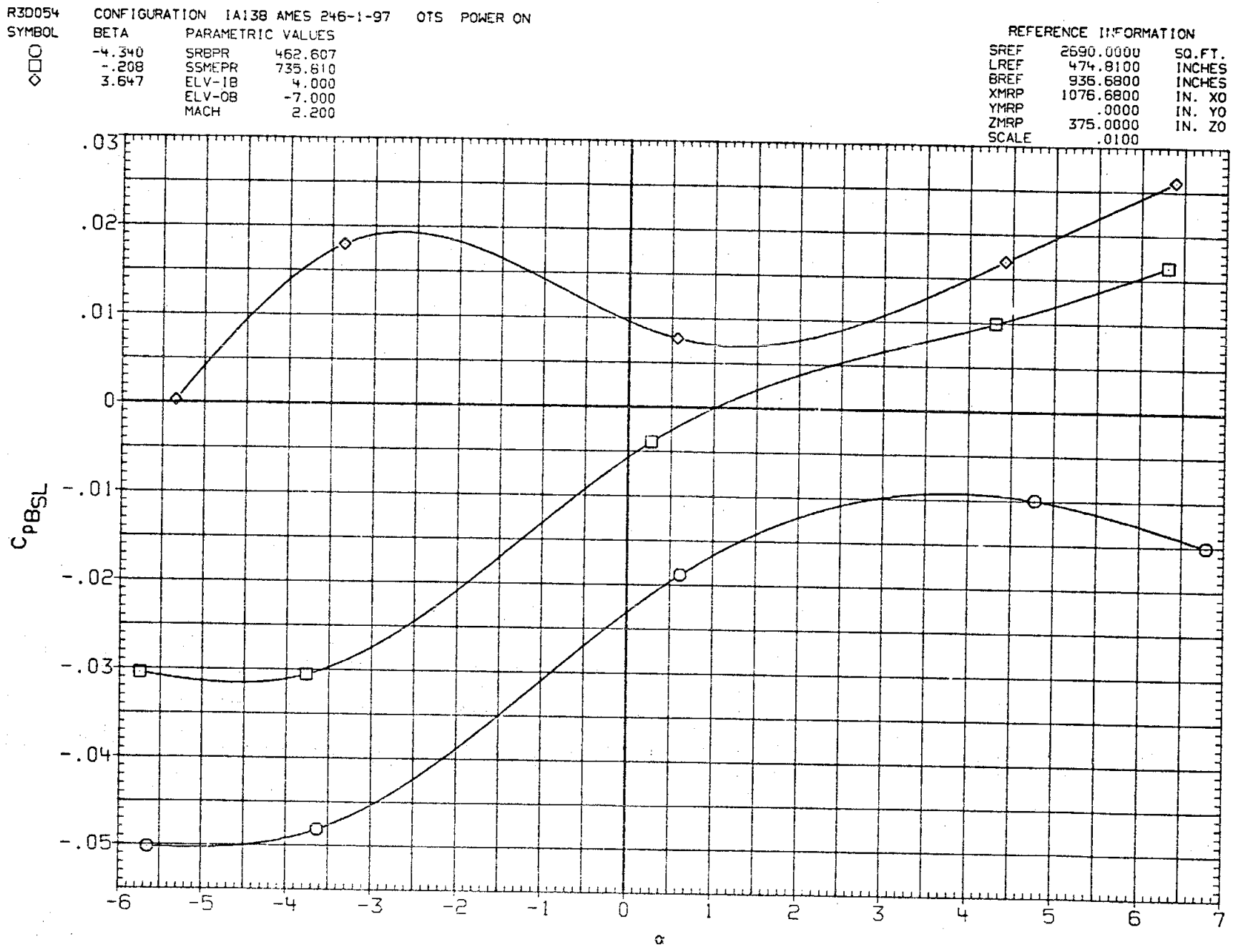

FIG. 63 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-7 MACH=2.2

DATE 17 OCT 78

R30054 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.340
□	-.208
◇	3.647

PARAMETRIC VALUES

SRBPR	462.607
SSMEPR	735.810
ELV-IB	4.000
ELV-OB	-7.000
MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

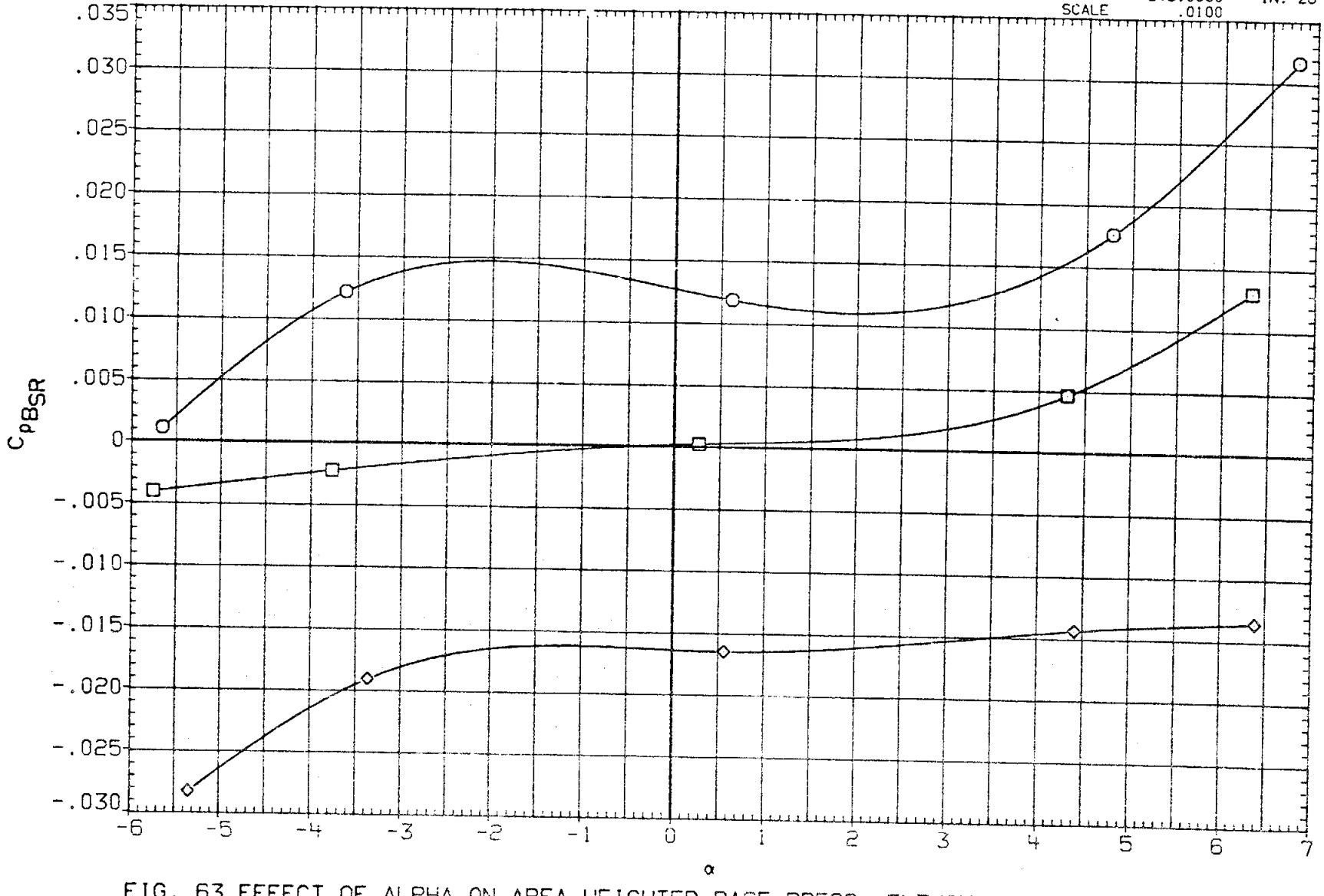

FIG. 63 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/-7 MACH=2.2

DATE 17 OCT 78

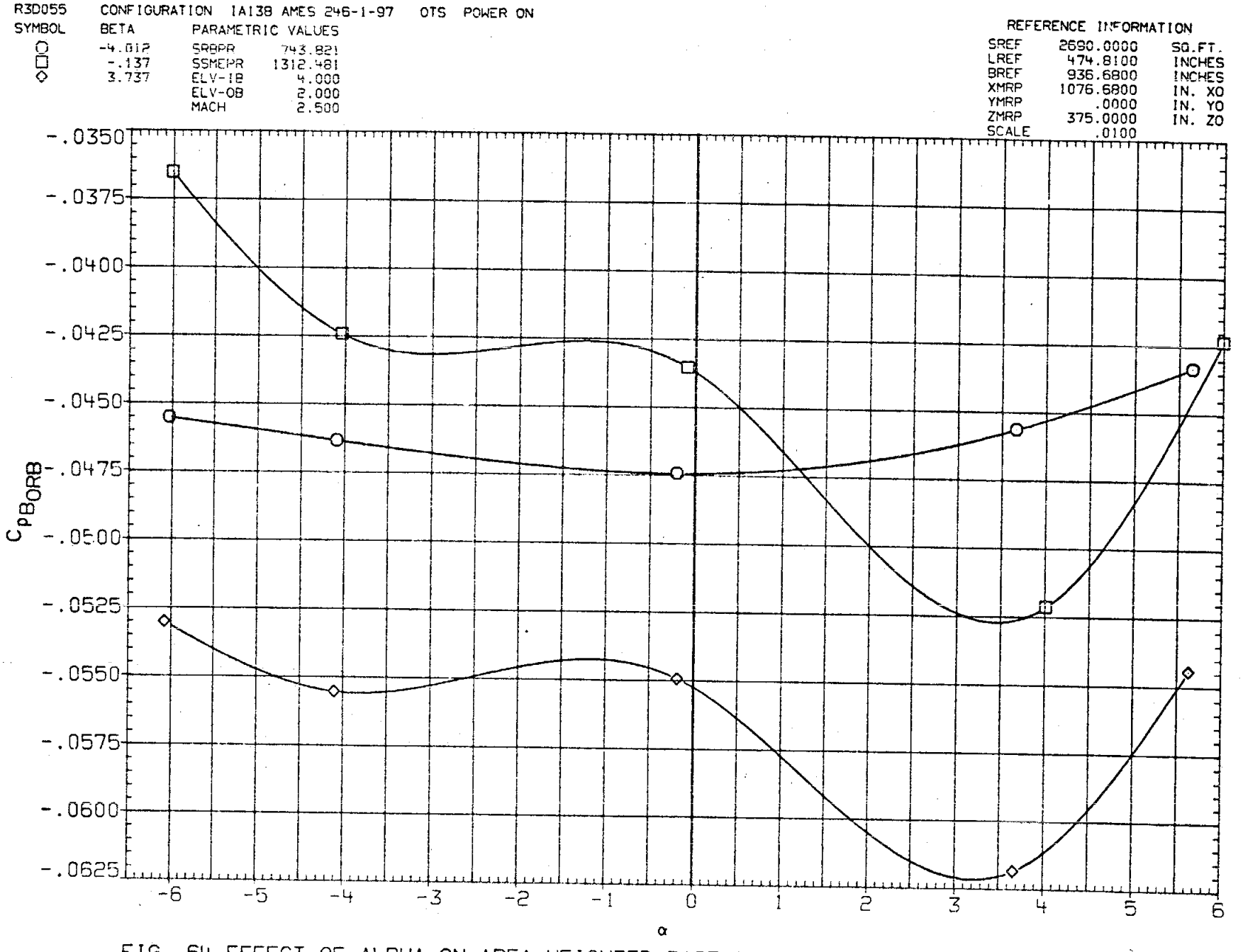

FIG. 64 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/2 MACH=2.5

DATE 17 OCT 78

R3D055 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.012	SRBPR	743.821
□	-.137	SSMEPR	1312.481
◇	3.737	ELV-IB	4.000
		ELV-OB	2.000
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

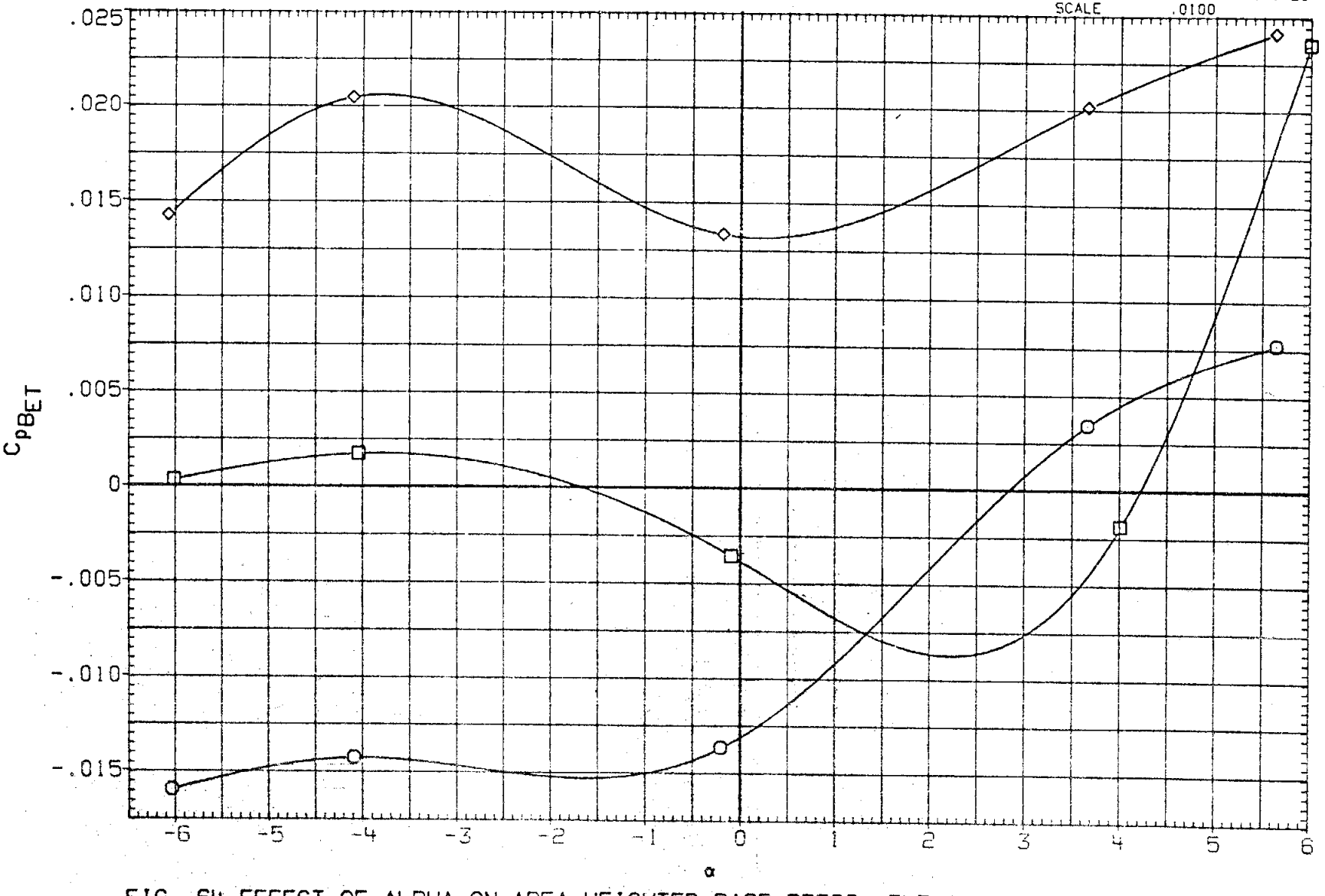

FIG. 64 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/2 MACH=2.5

DATE 17 OCT 78

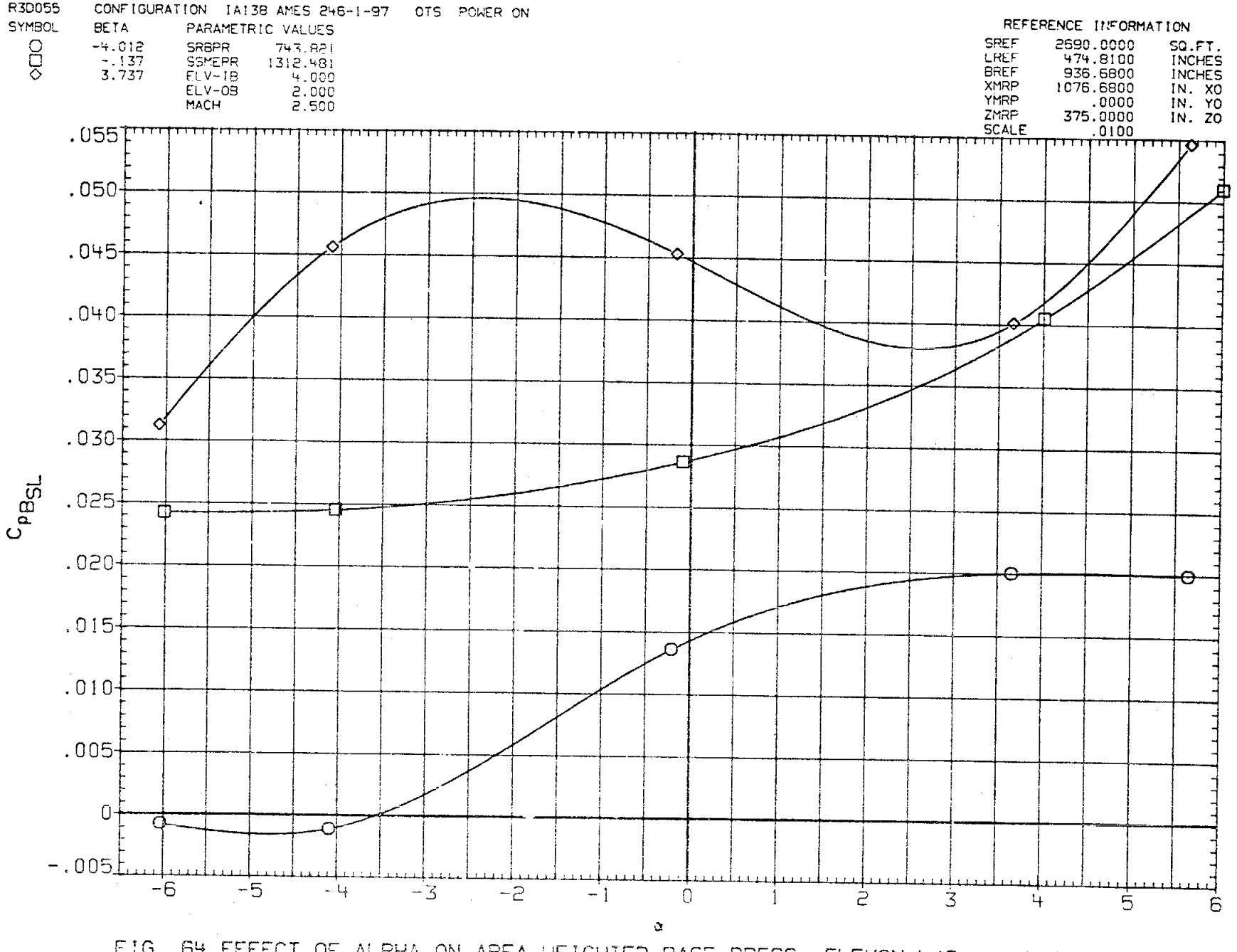

FIG. 64 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/2 MACH=2.5

DATE 17 OCT 78

R3D055 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.012	SRBPR	743.821
□	-.137	SSMEPR	1312.481
◇	3.737	ELV-1B	4.000
		ELV-0B	2.900
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

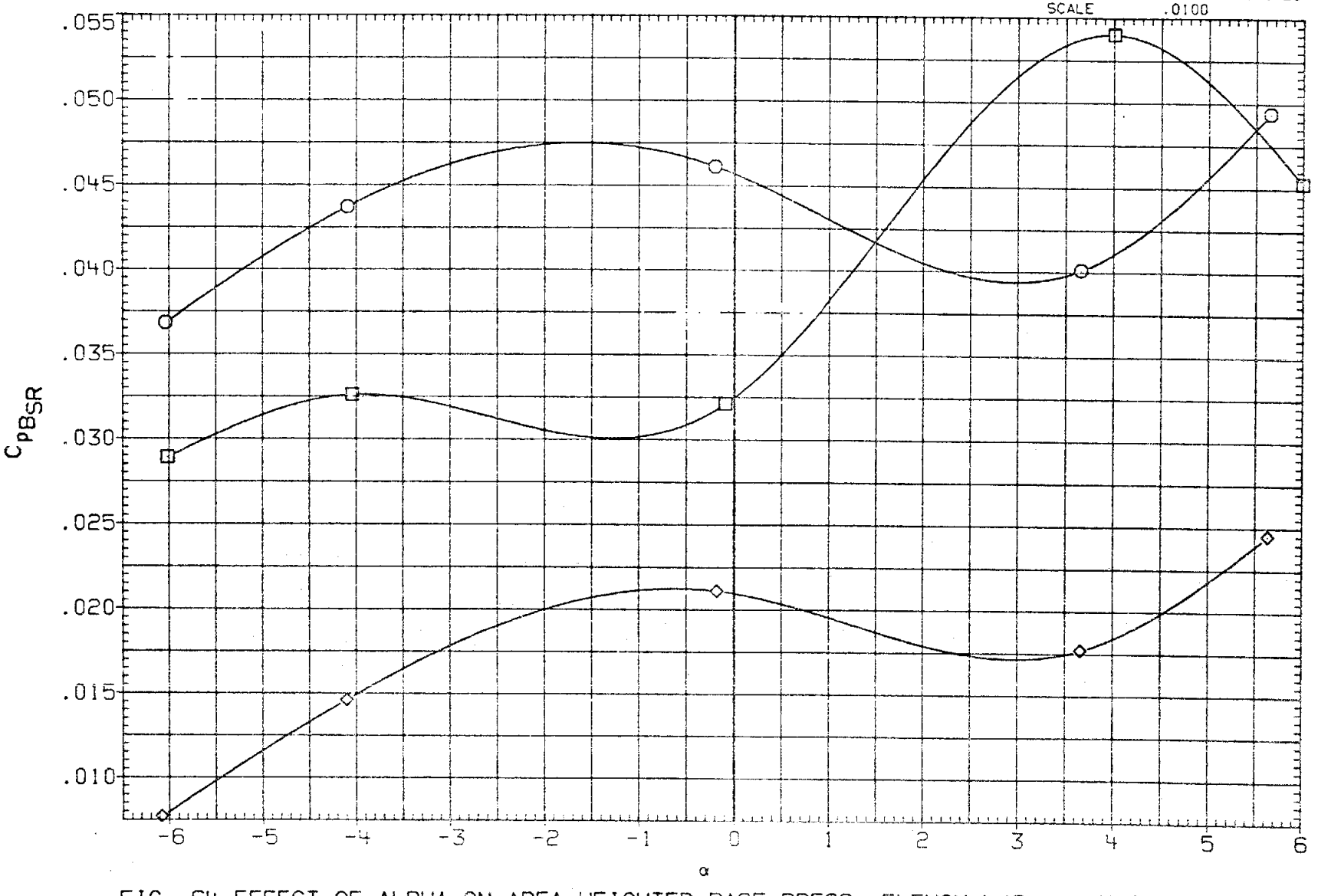

FIG. 64 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=4/2 MACH=2.5

DATE 17 OCT 78

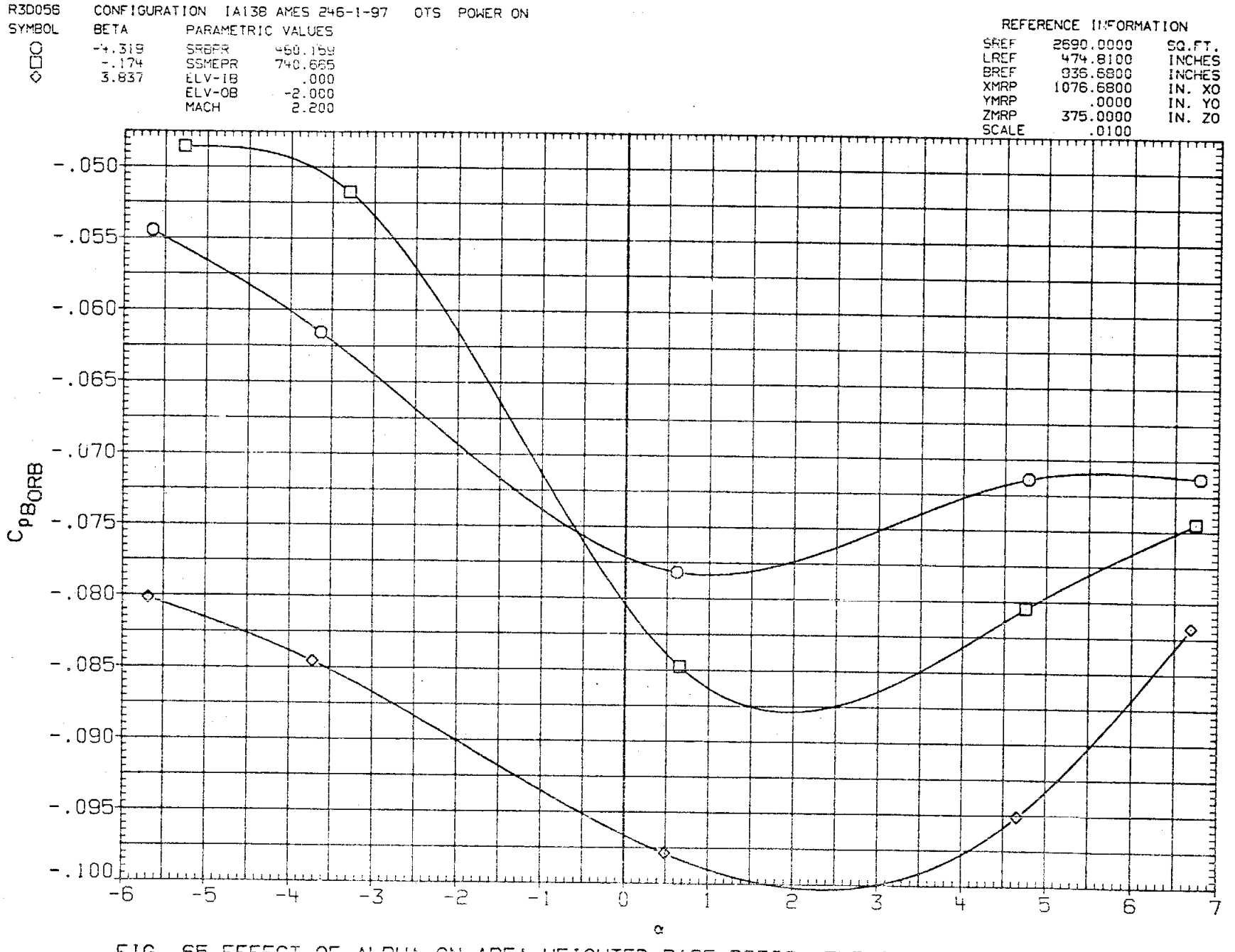

FIG. 65 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.2

DATE 17 OCT 78

R3D056 CONFIGURATION IA136 AMES 24B-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.319	SRBPR	460.159
□	-.174	SSMEPR	740.665
◇	3.837	ELV-IB	.000
		ELV-OB	-2.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

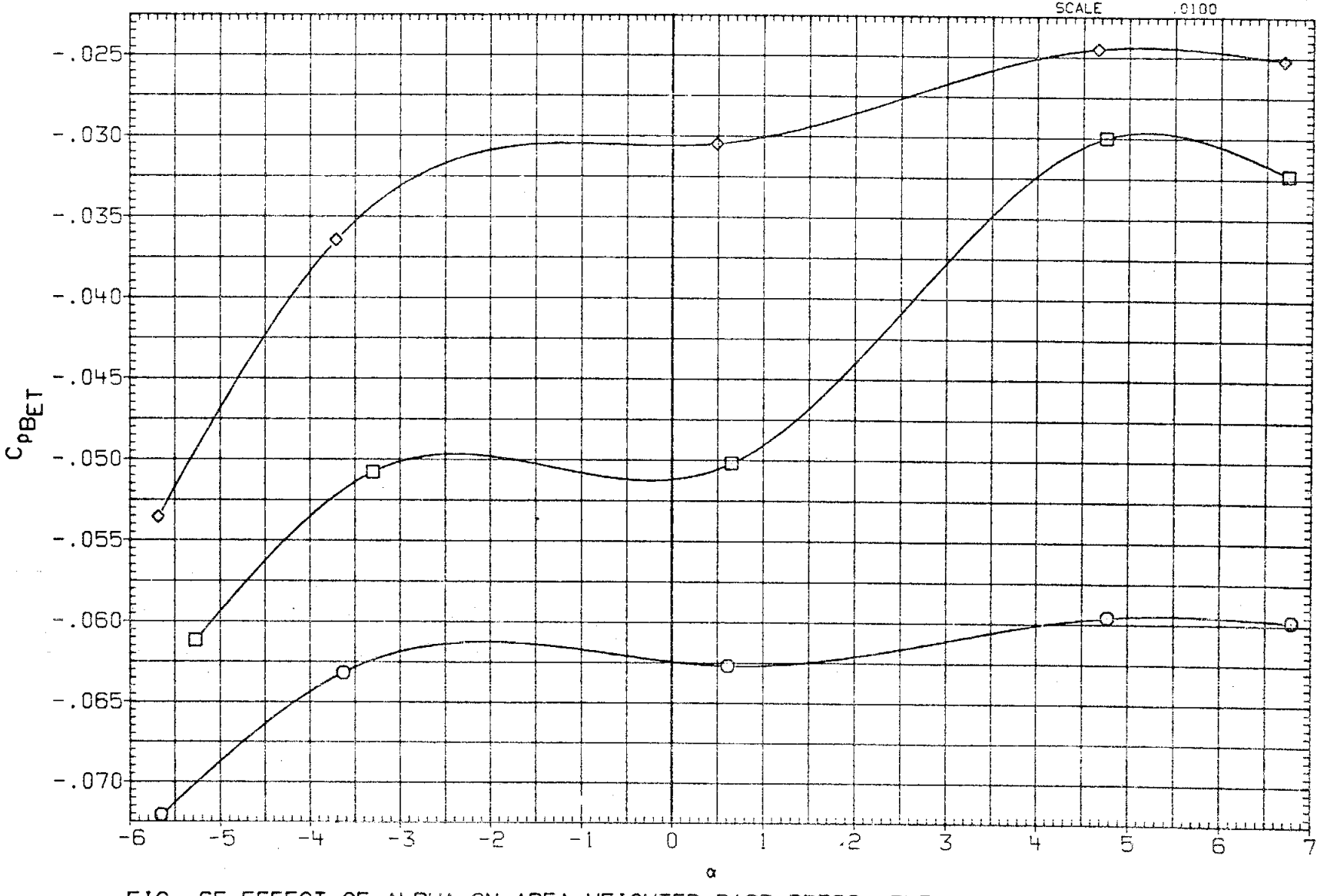

FIG. 65 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.2

DATE 17 OCT 78

R3D056 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.319	SRBPR	460.159
□	-.174	SSMEPR	740.665
◇	3.837	ELV-IB	.000
		ELV-OB	-2.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

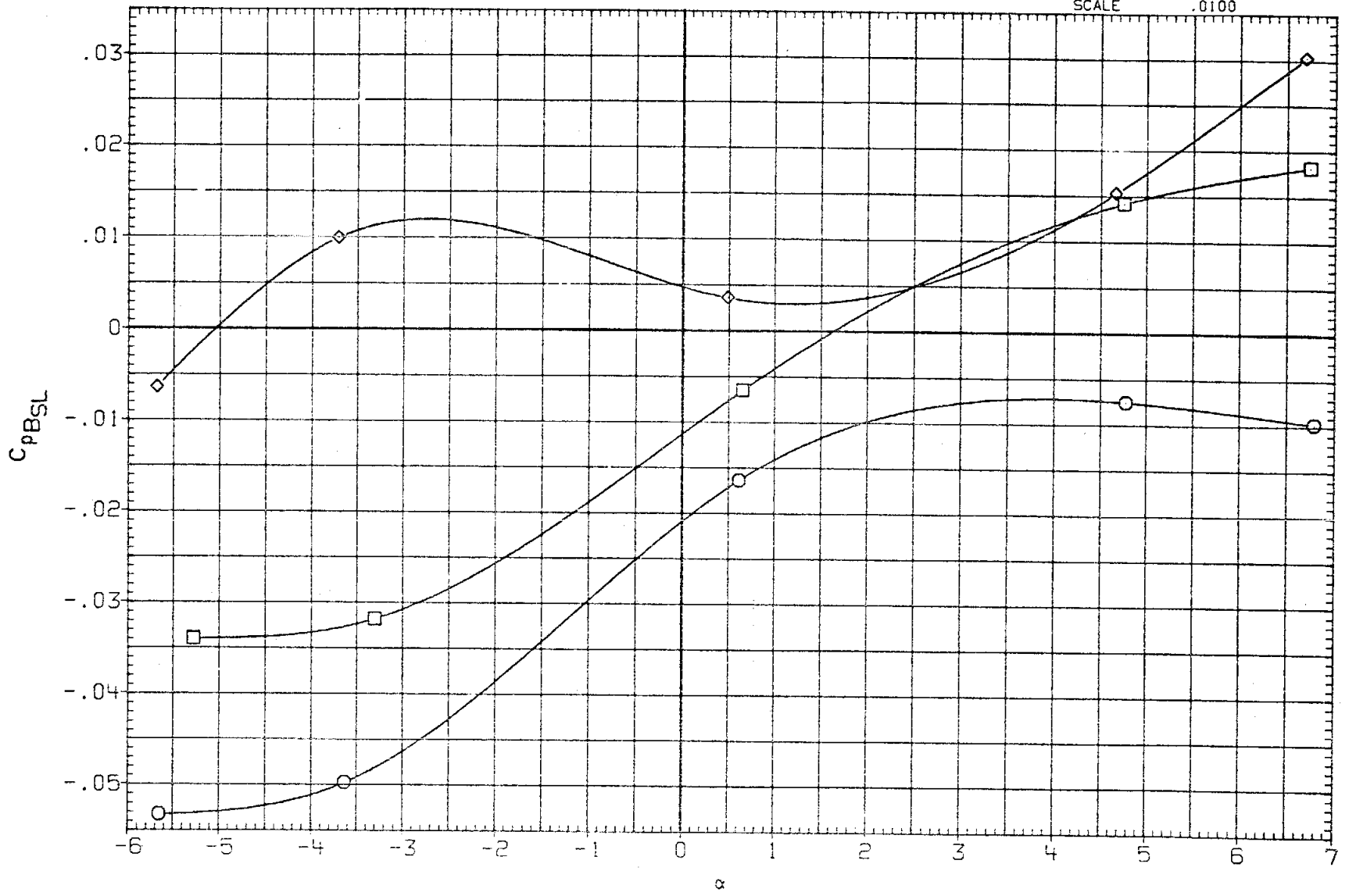

FIG. 65 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.2

DATE 17 OCT 78

R30056 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.319	SRBPR	460.159
□	-.174	SSMEPR	740.665
◇	3.837	ELV-IB	.000
		ELV-OB	-2.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

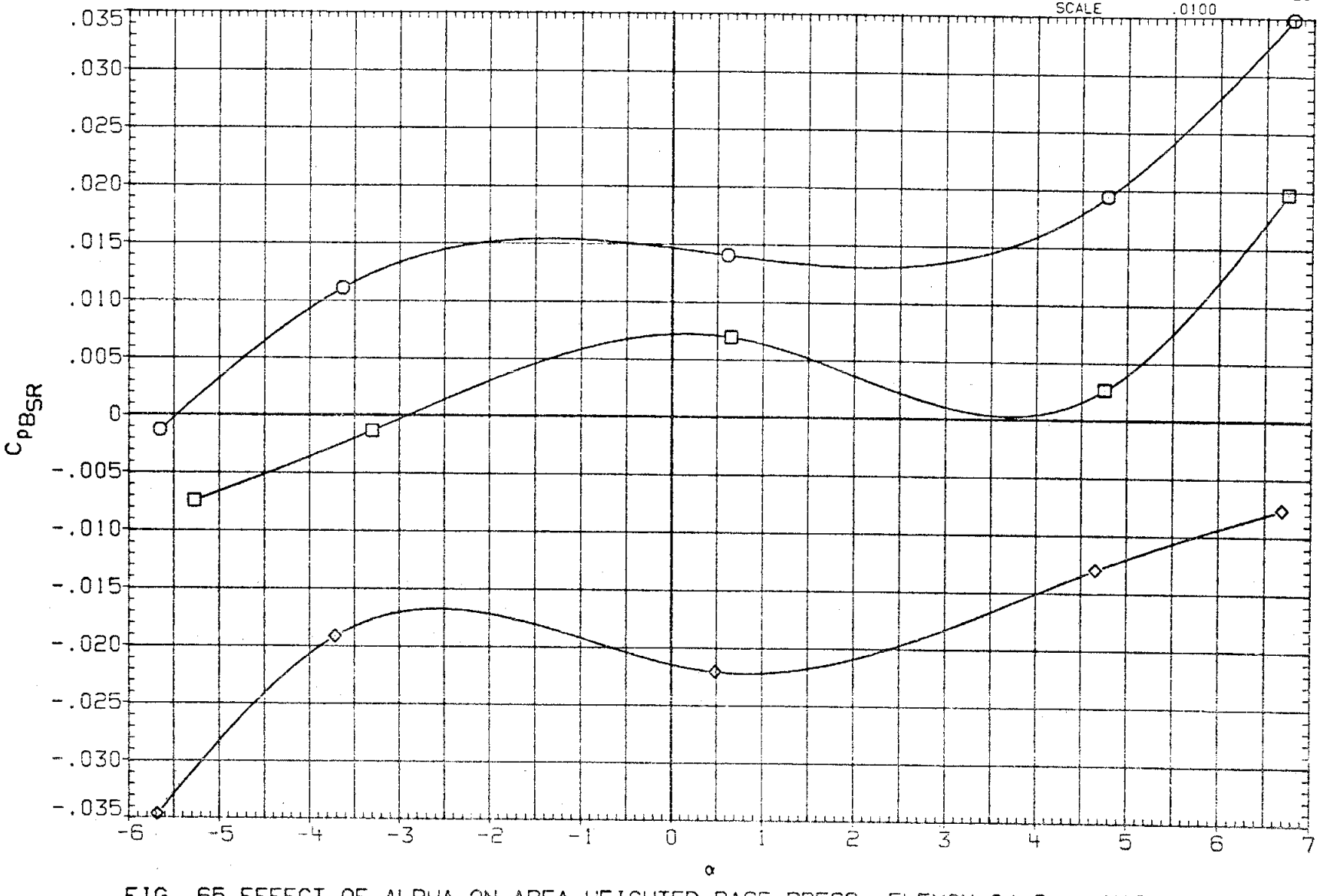

FIG. 65 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.2

DATE 17 OCT 78

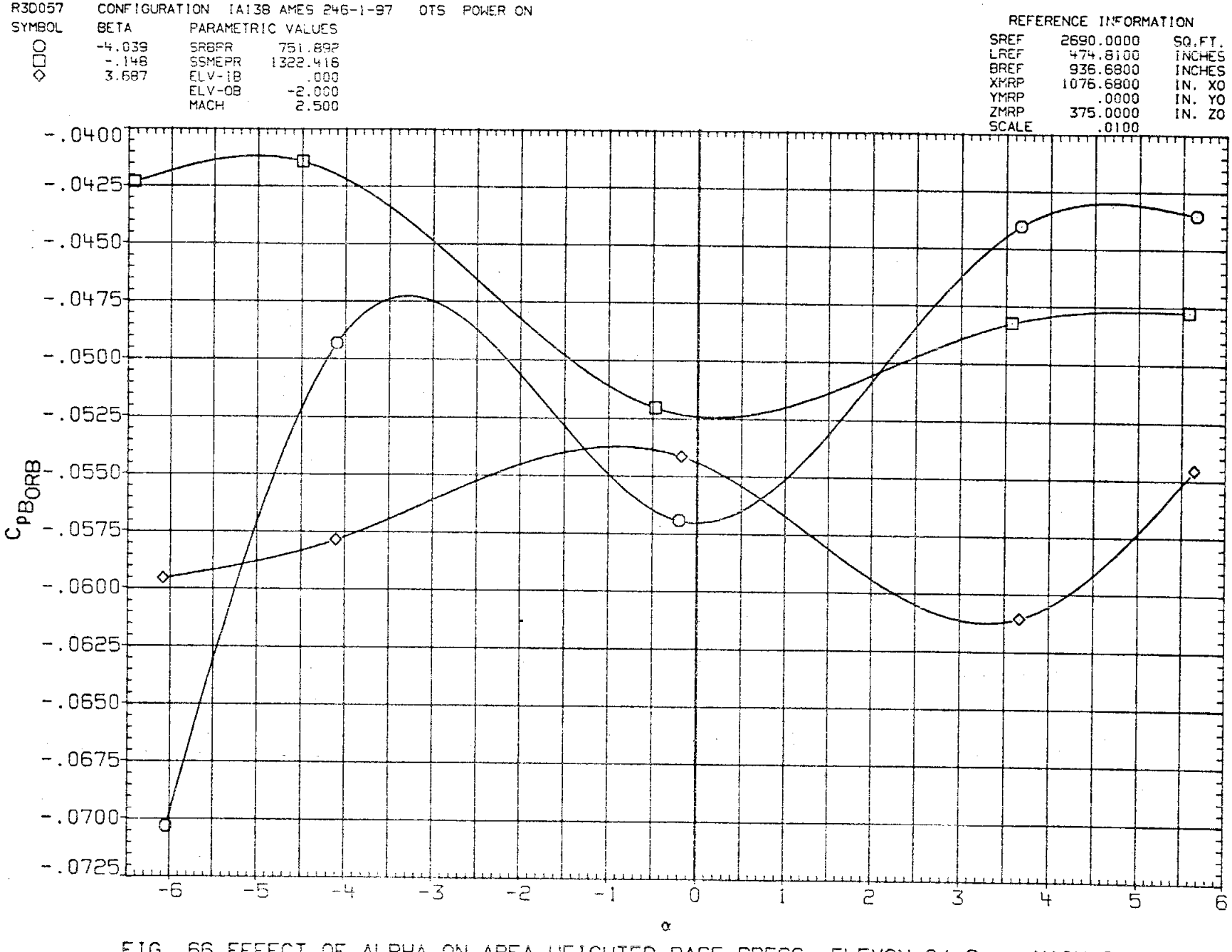

FIG. 66 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.5

DATE 17 OCT 78

R3D057 CONFIGURATION IA139 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
◇	-4.039
□	-.148
○	3.687

PARAMETRIC VALUES

SRBPR	751.892
SSMEPR	1322.416
ELV-IB	.000
ELV-OB	-2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

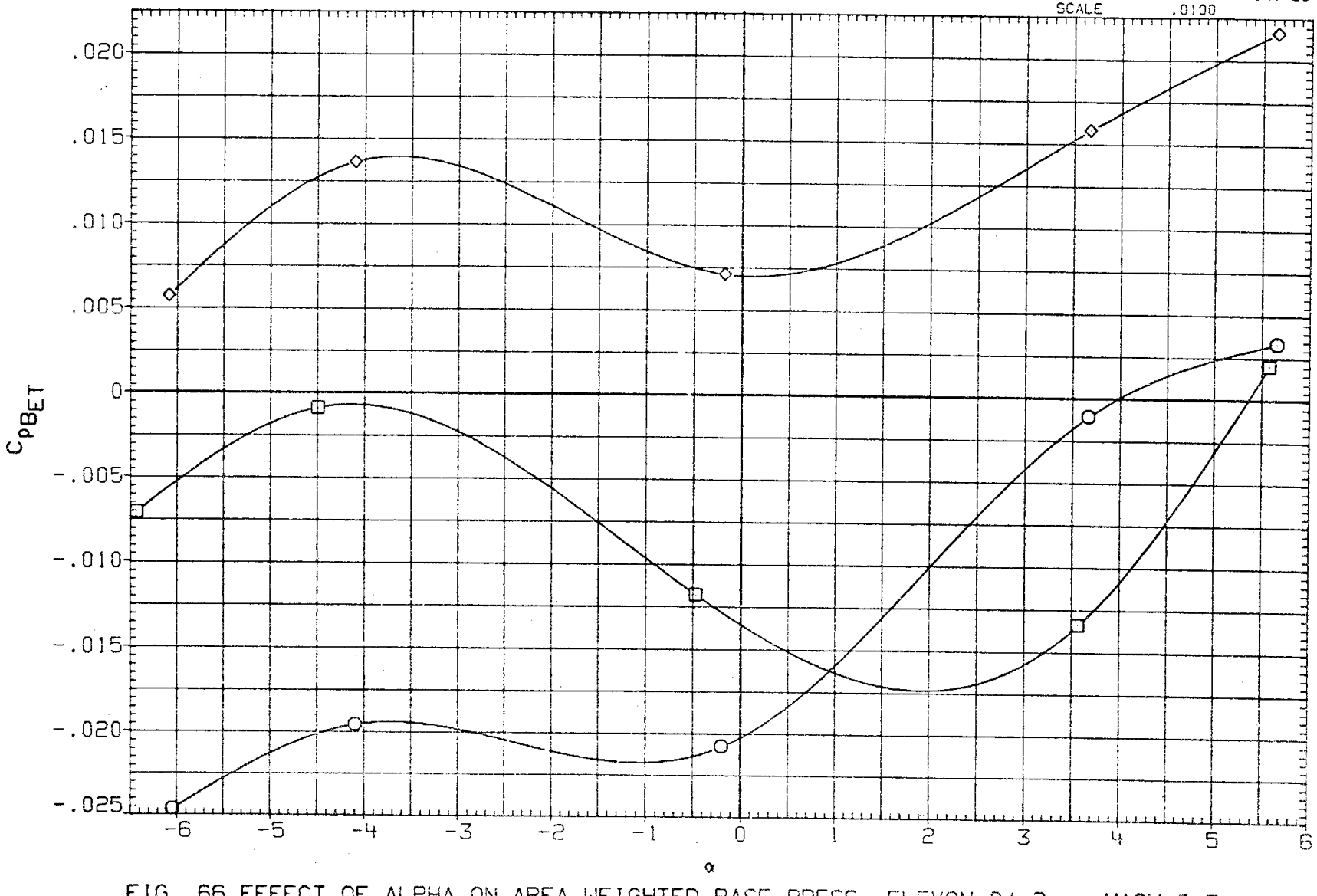

FIG. 66 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.5

DATE 17 OCT 78

R3D057 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
◇□○	-4.039	SREFR	751.892
	-.148	SSMEPR	1322.416
	3.687	ELV-IB	.000
		ELV-OB	-2.000
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

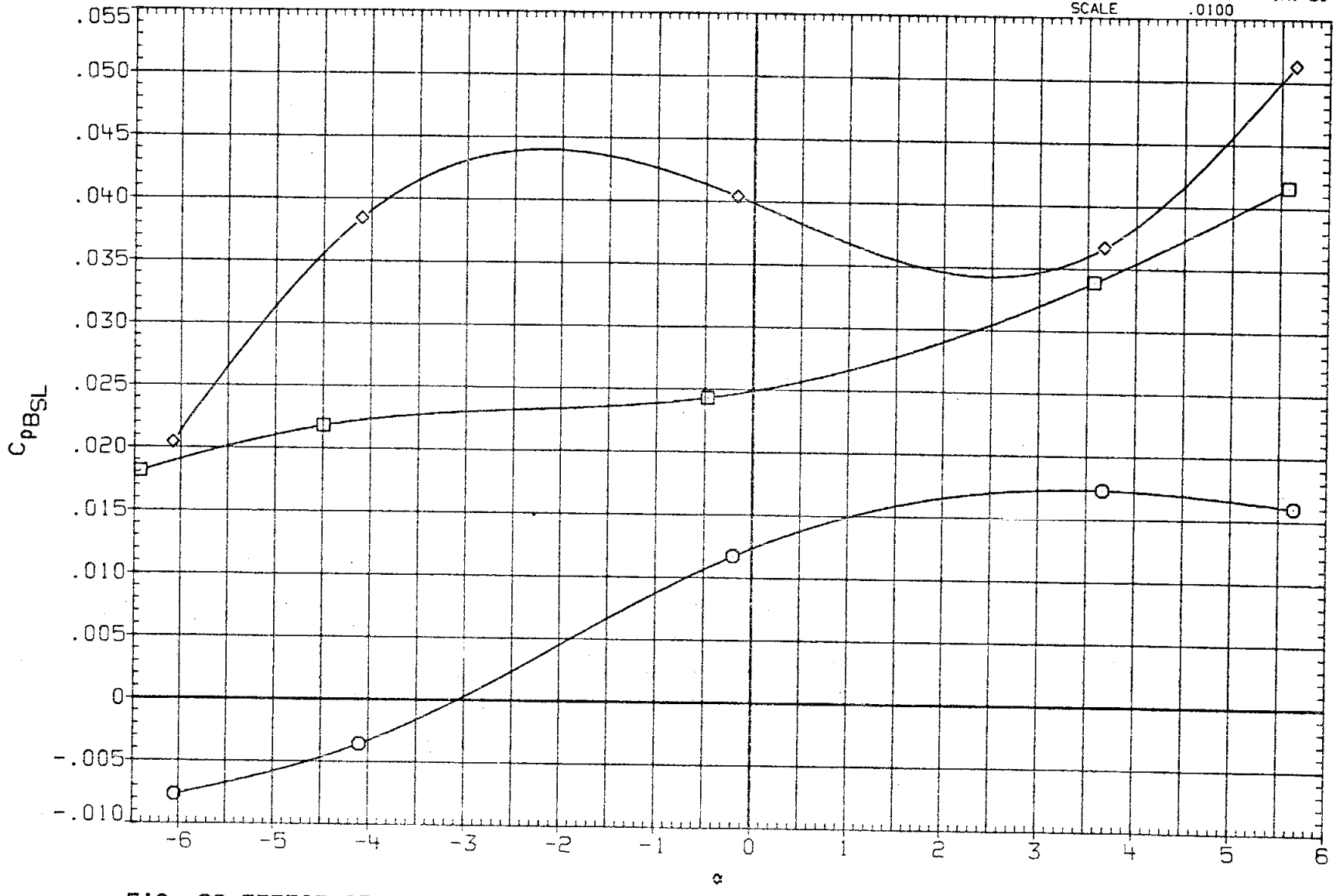

FIG. 66 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.5

DATE 17 OCT 78

R3D057 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.039
□	-.148
◇	3.687

PARAMETRIC VALUES

SRBFR	751.892
SSMEPR	1322.416
ELV-IB	.000
ELV-OB	-2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

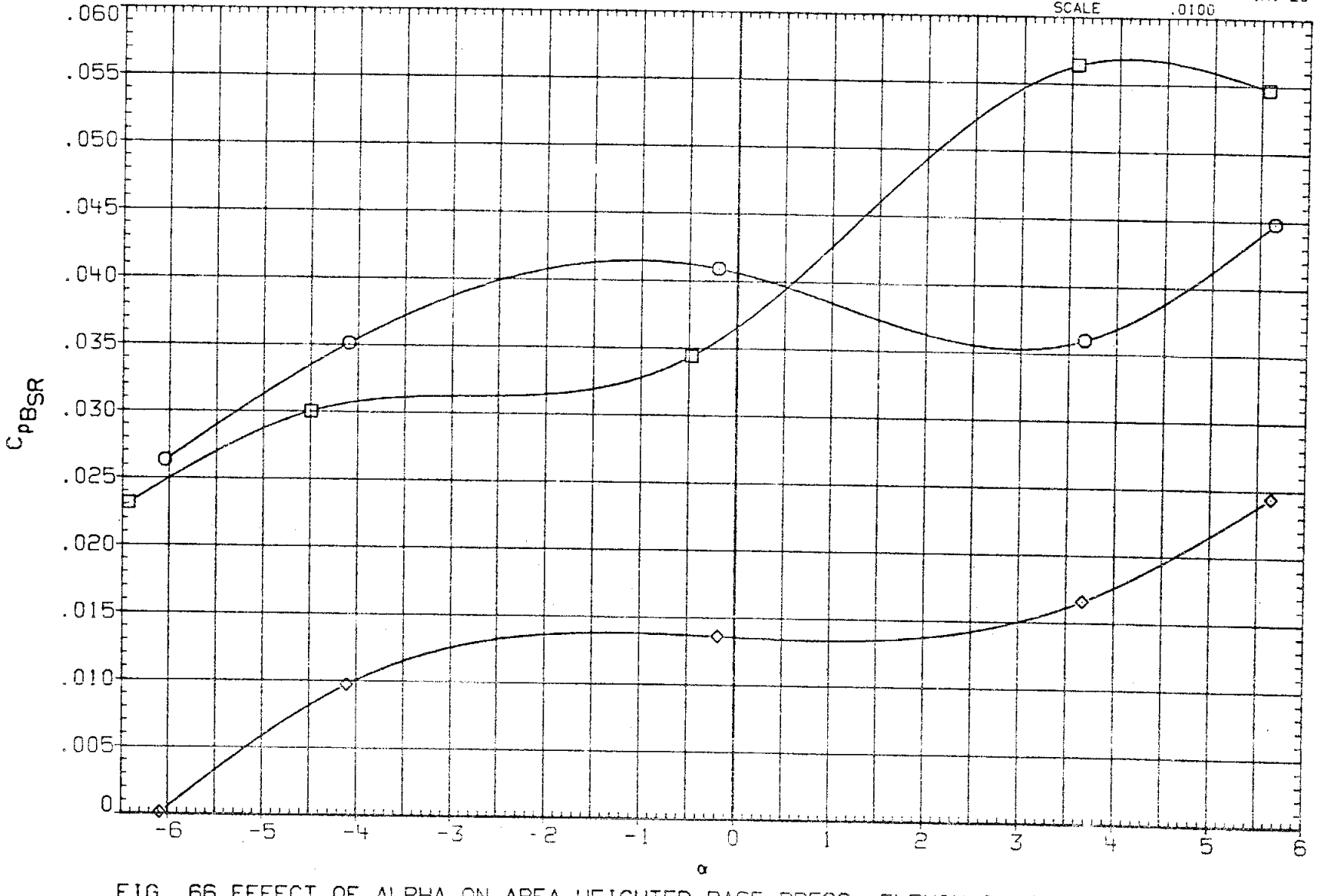

FIG. 66 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-2 MACH=2.5

DATE 17 OCT 78

R3D058 CONFIGURATION 1A138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.318	SRBPR	462.862
□	-.174	SSMEPR	741.568
◇	3.837	ELV-IB	.000
		ELV-OB	-5.000
		MACH	2.200

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

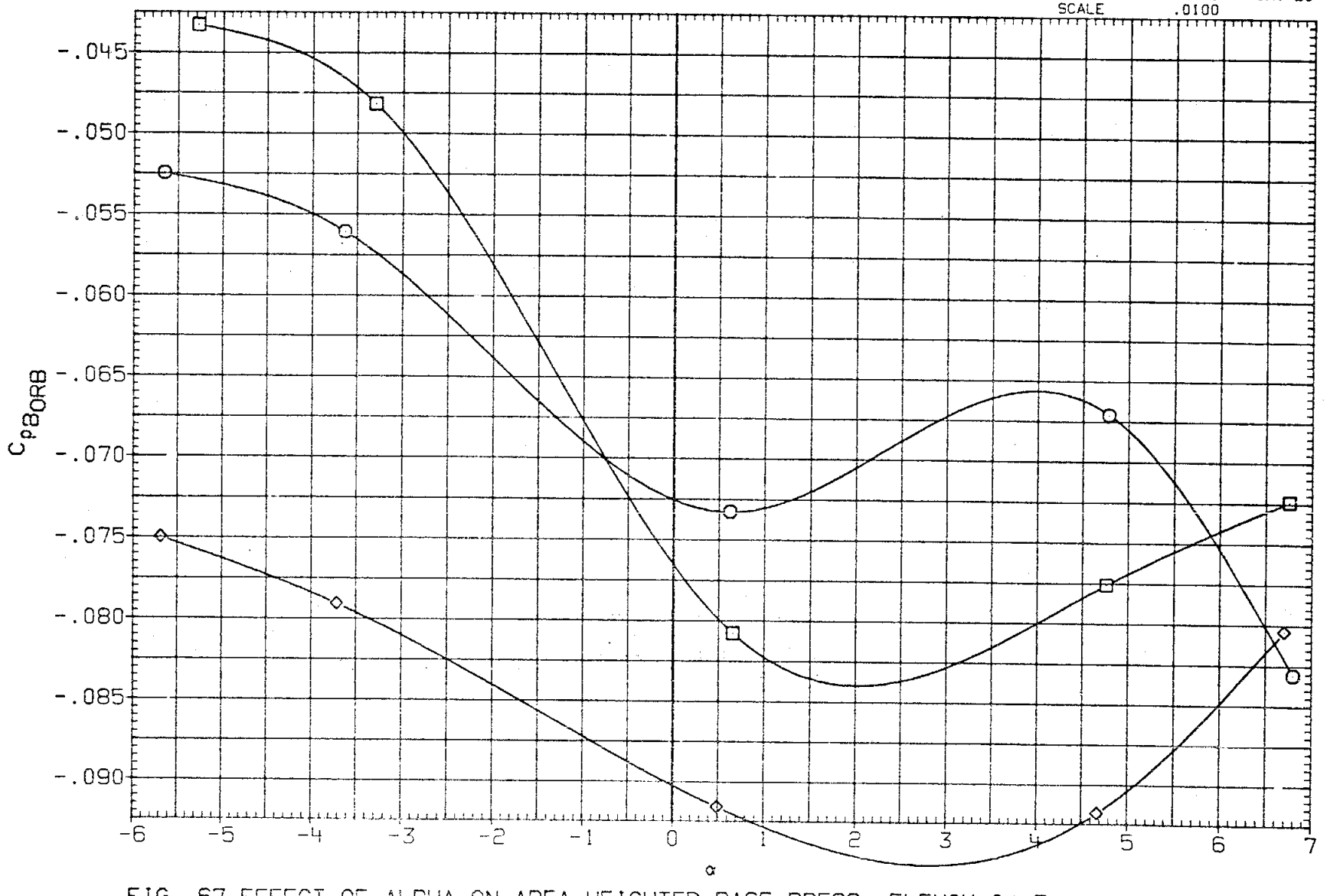

FIG. 67 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.2

DATE 17 OCT 78

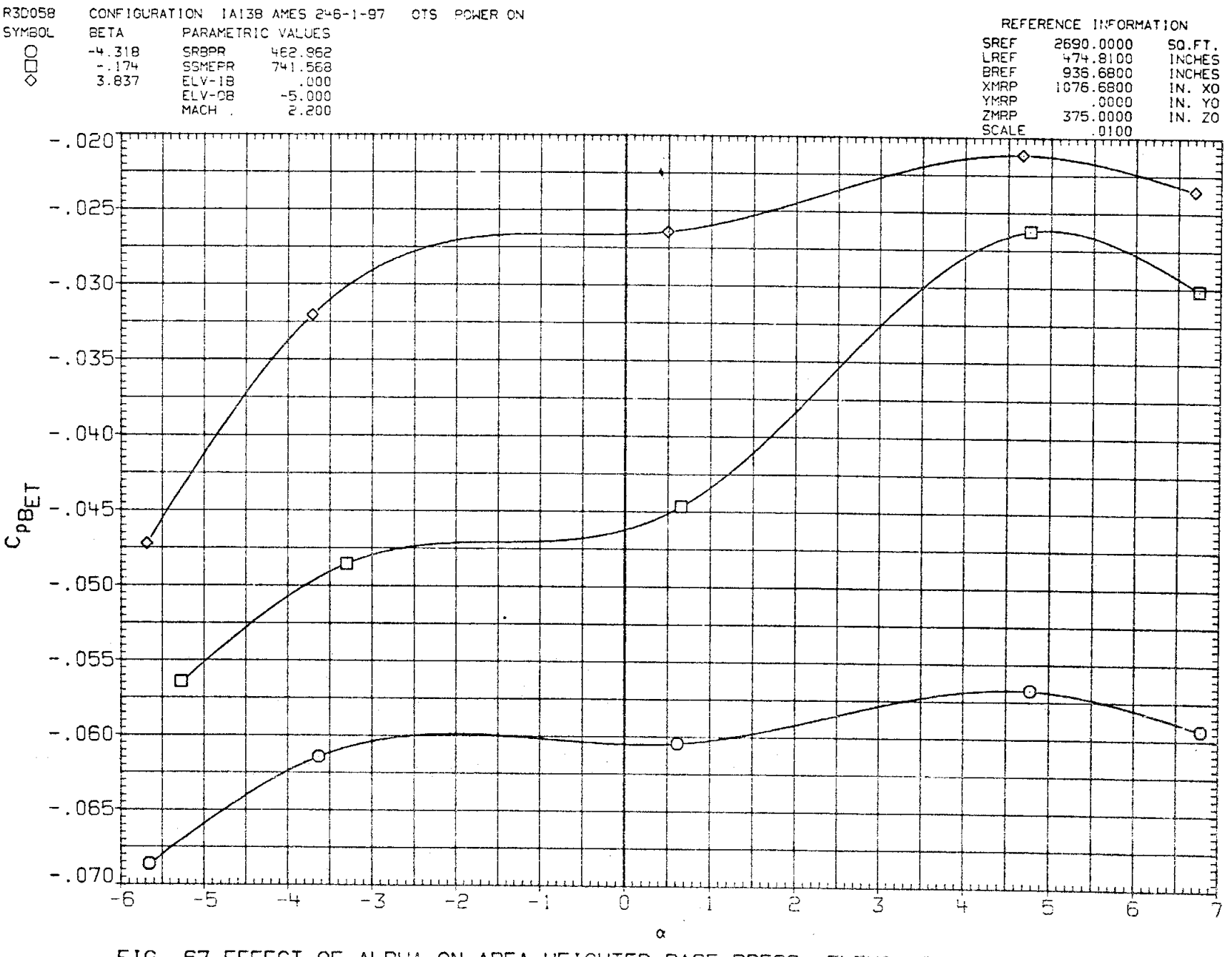

FIG. 67 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.2

DATE 17 OCT 78

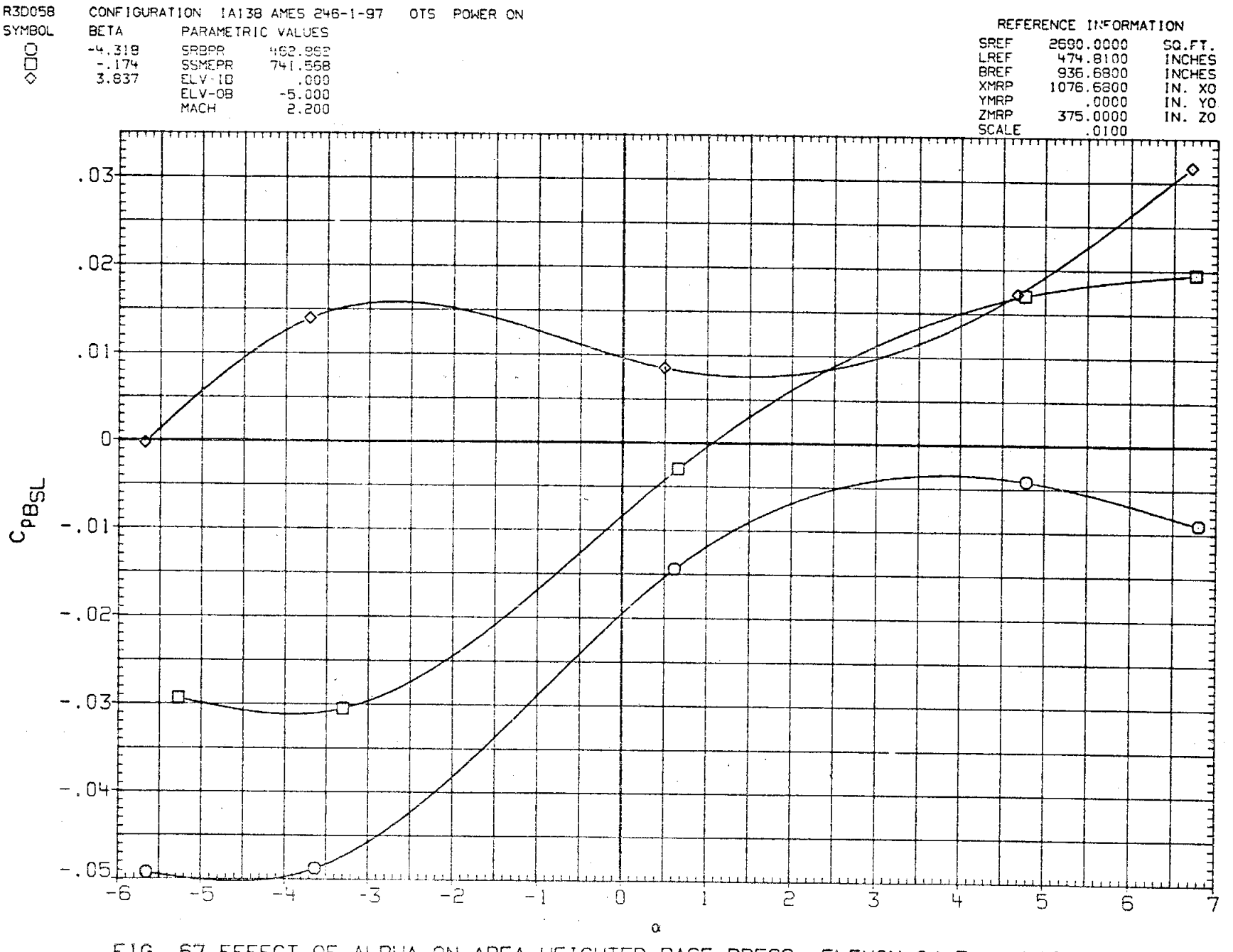

FIG. 67 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.2

DATE 17 OCT 78

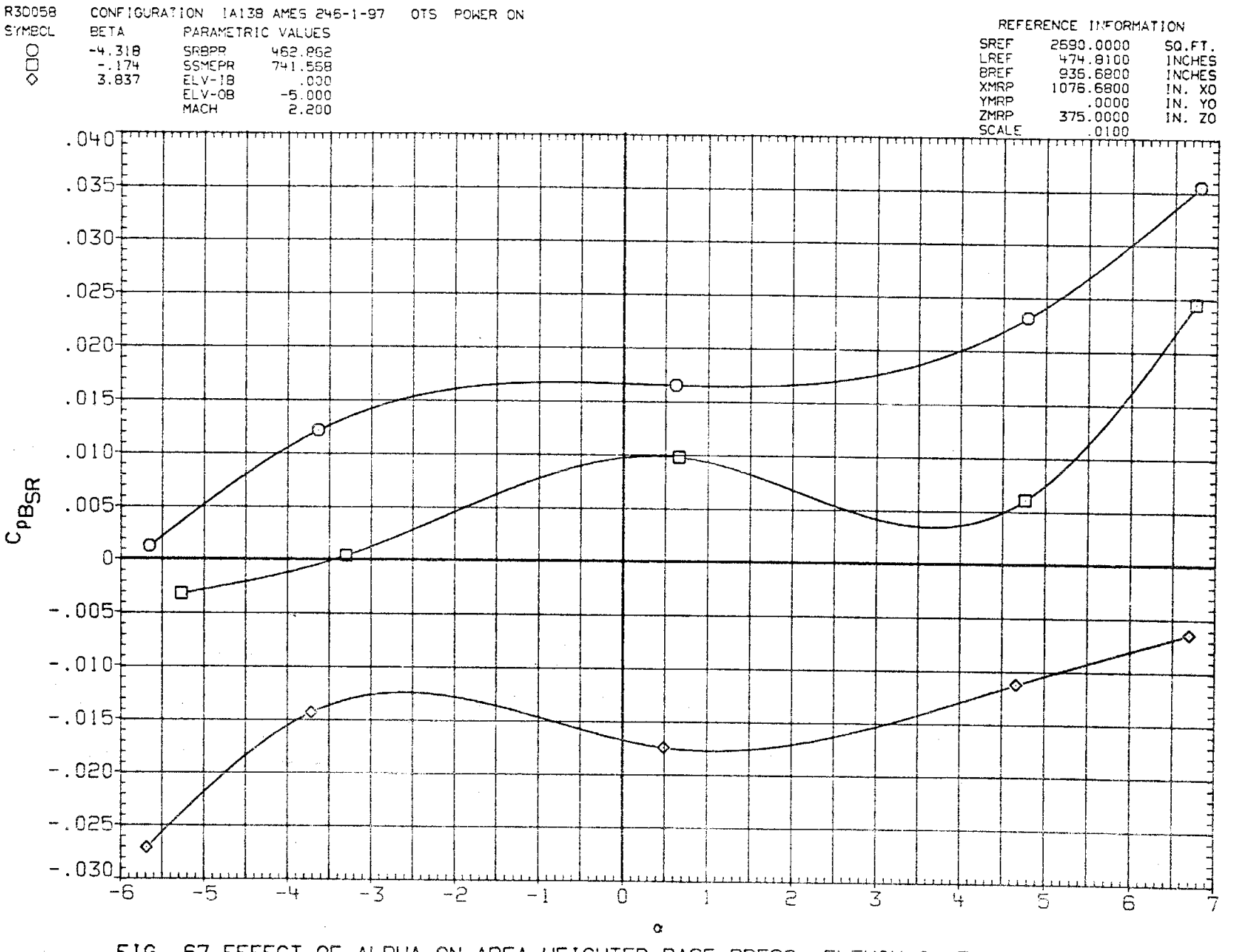

FIG. 67 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.2

DATE 17 OCT 78

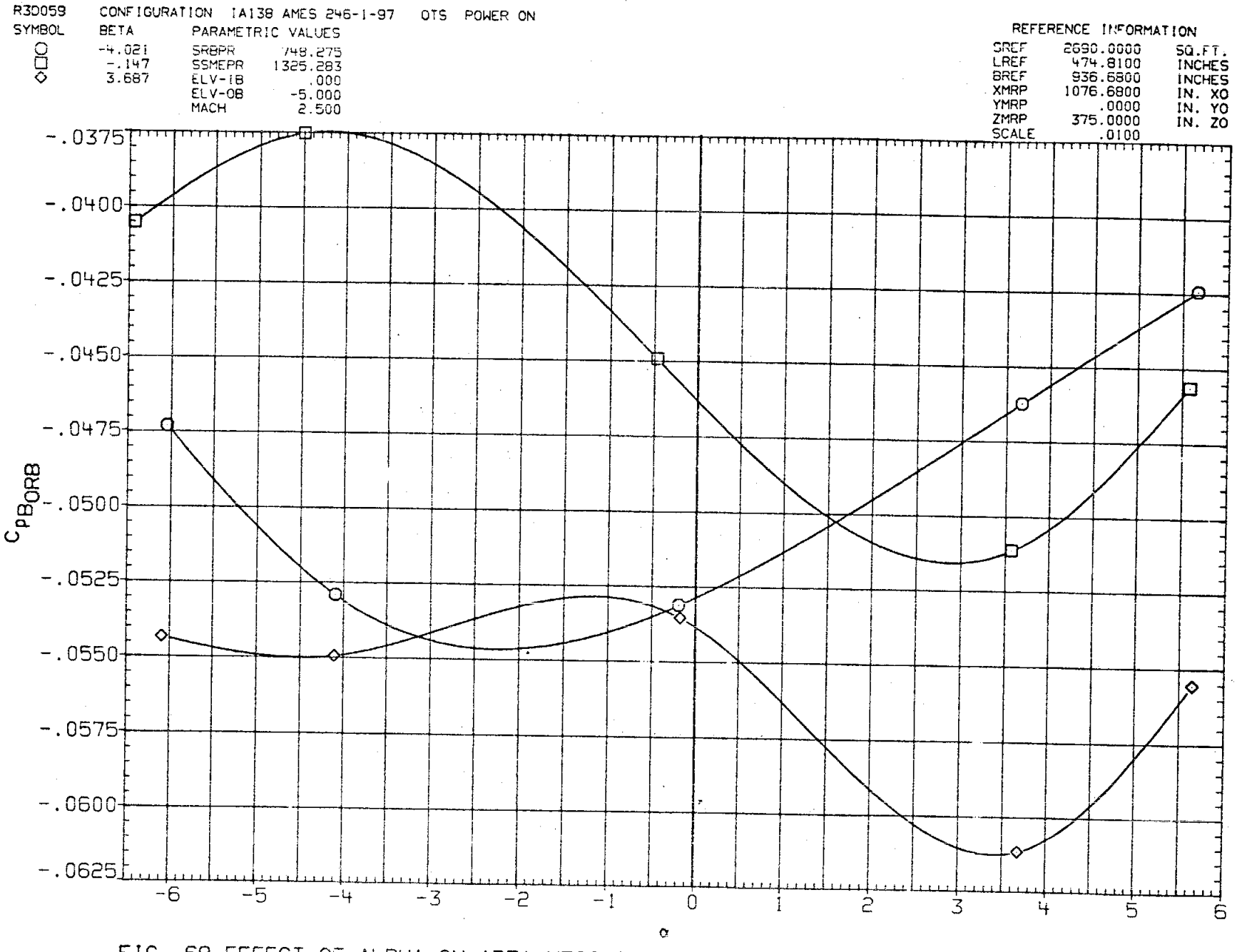

FIG. 68 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.5

DATE 17 OCT 78

R3D059 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.021	SRBPR	748.275
□	-.147	SSMEPR	1325.283
◇	3.687	ELV-IB	.000
		ELV-OB	-5.000
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

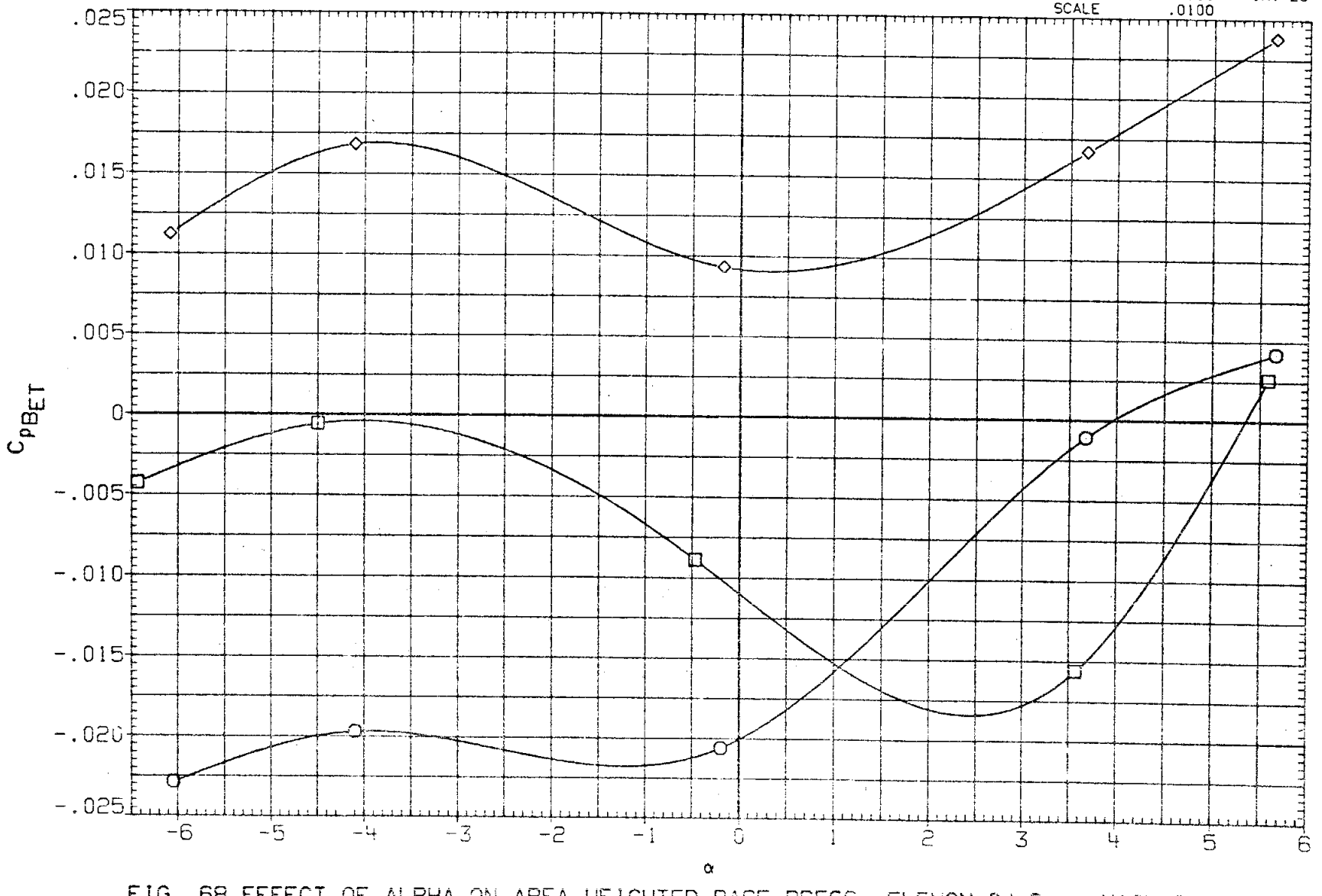

FIG. 68 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.5

DATE 17 OCT 78

R3D059 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
○	-4.021
□	-.147
◇	3.687

PARAMETRIC VALUES

SRBPR	748.275
SSMEPR	1325.283
ELV-IB	.000
ELV-OB	-5.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

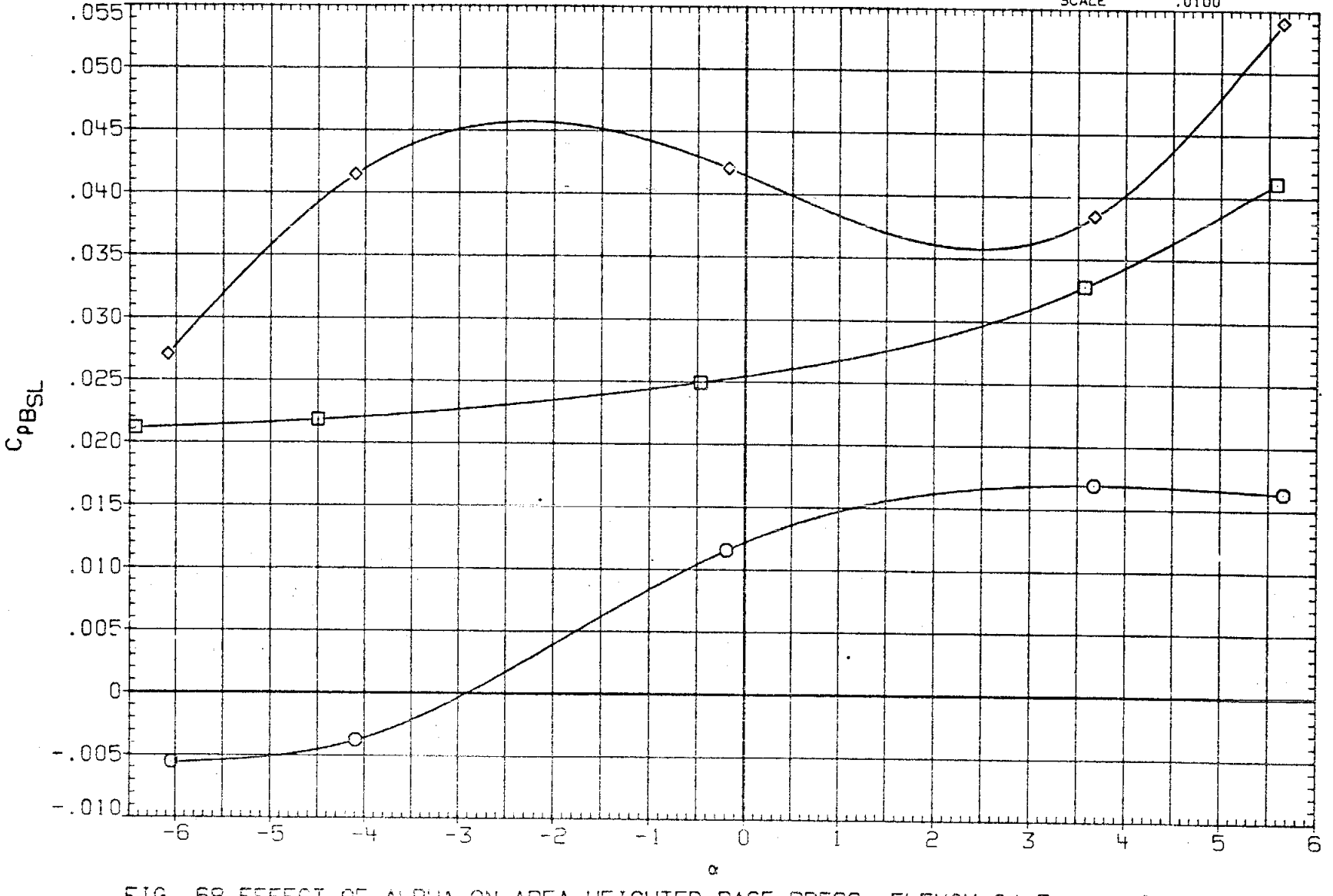

FIG. 68 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.5

DATE 17 OCT 78

R3D059 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA	PARAMETRIC VALUES	
○	-4.021	SRBPR	748.275
□	-.147	SSMEPR	1325.283
◇	3.687	ELV-IB	.000
		ELV-OB	-5.000
		MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

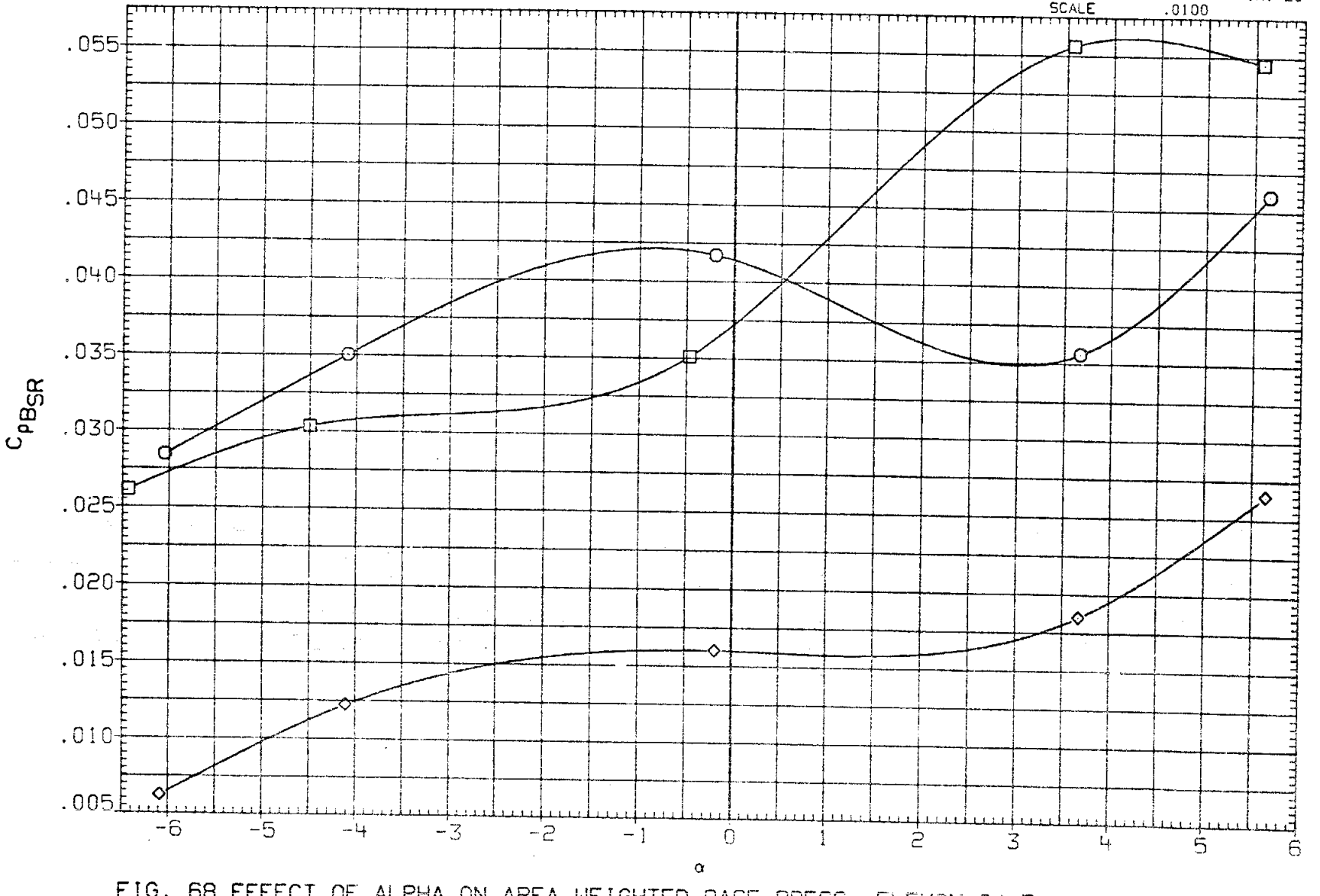

FIG. 68 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/-5 MACH=2.5

DATE 17 OCT 78

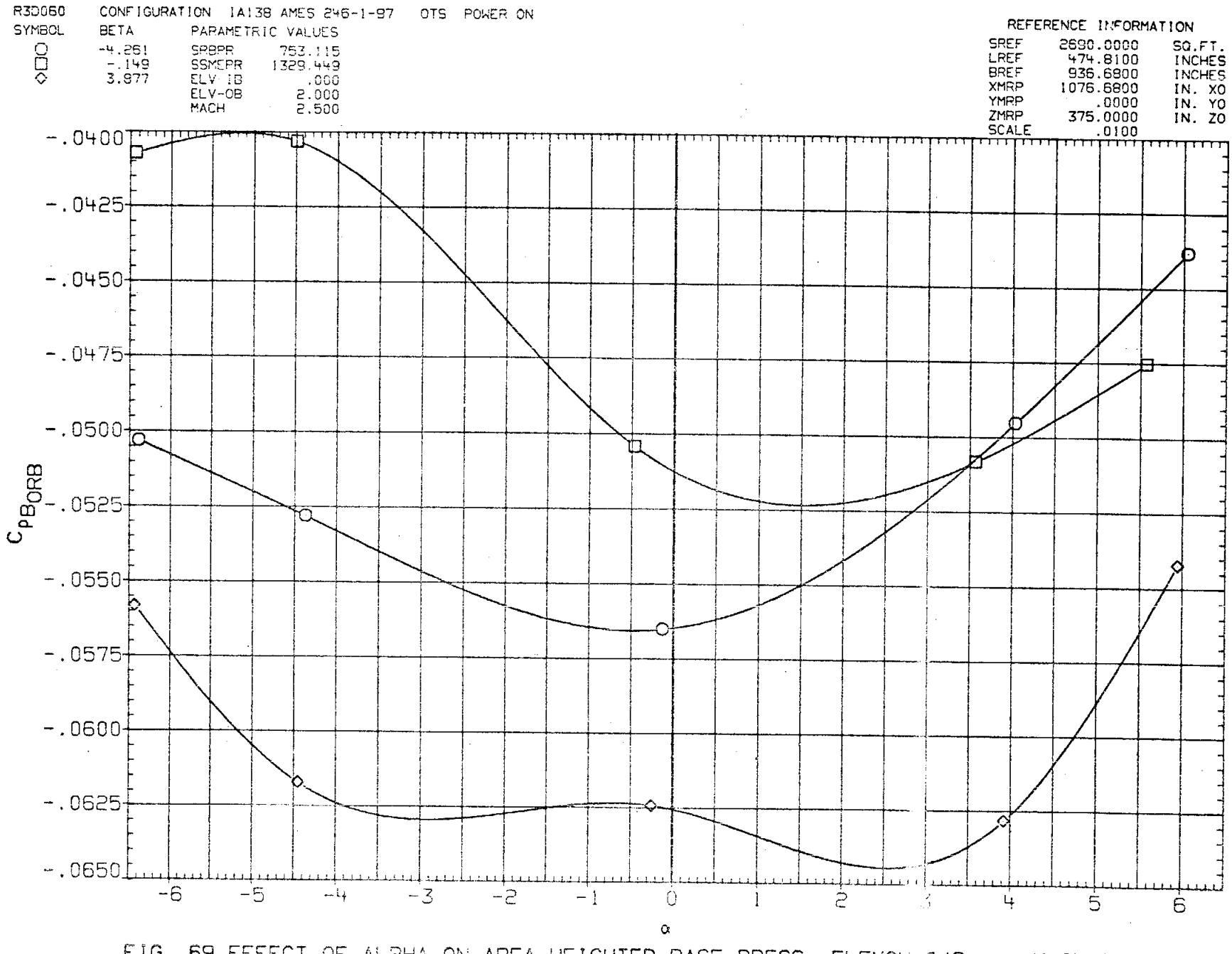

FIG. 69 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS., ELEVON 0/2 MACH=2.5

R3D060 CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	BETA
◇	-4.261
□	-.149
○	3.877

PARAMETRIC VALUES

SRBPR	753.115
SSMEPR	1329.449
ELV-1B	.000
ELV-0B	2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

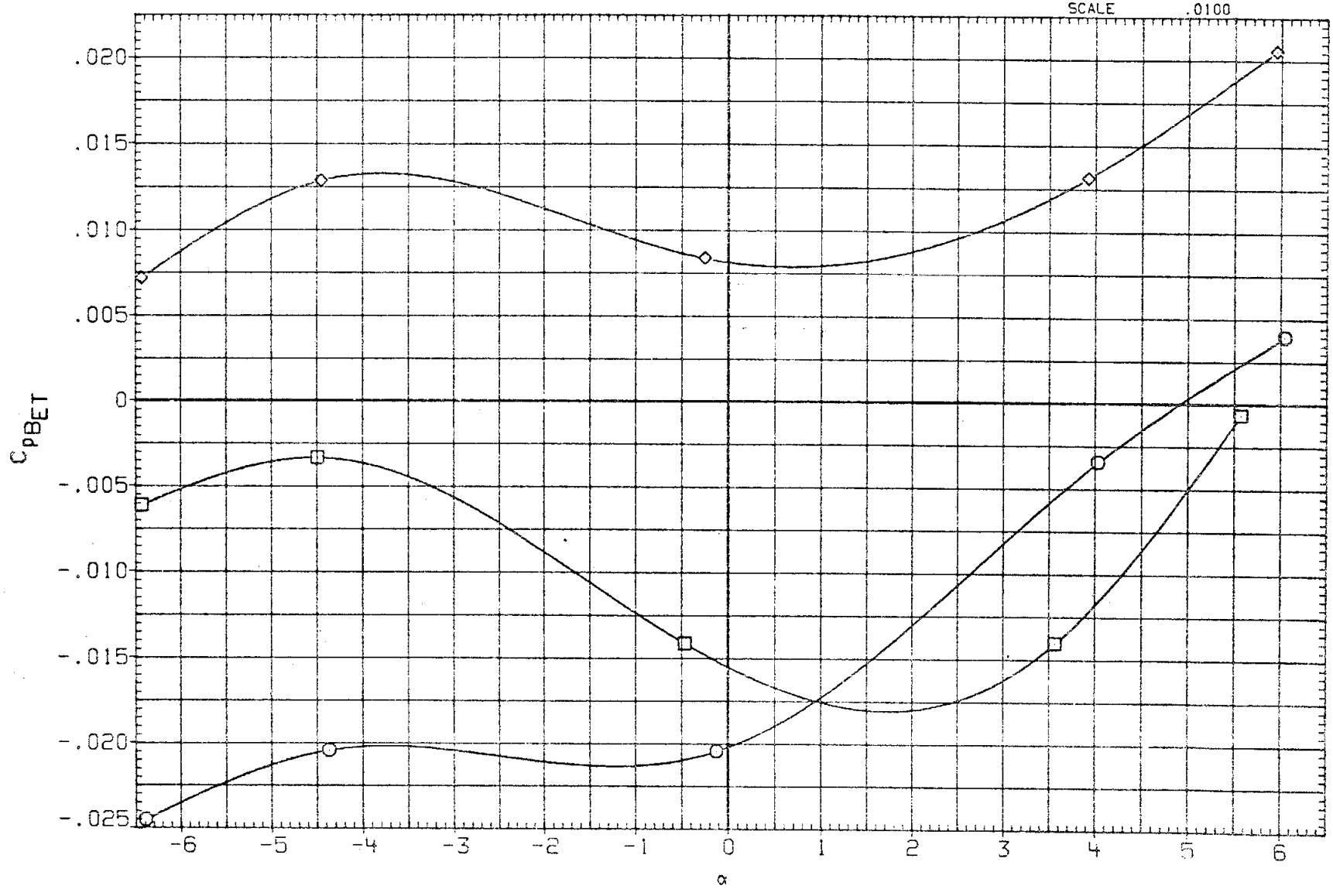

FIG. 69 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/2 MACH=2.5

DATE 17 OCT 78

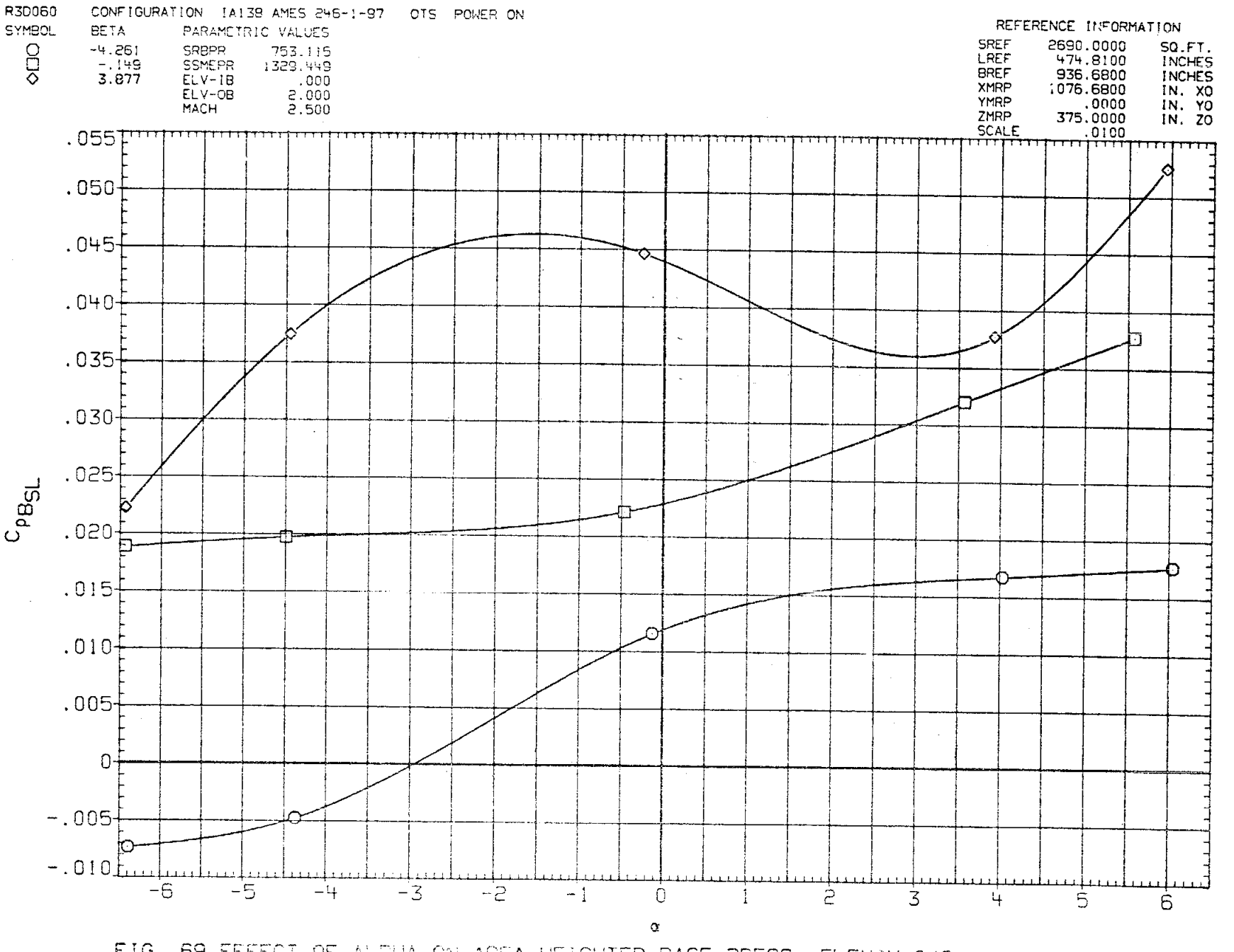

FIG. 69 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/2 MACH=2.5

DATE 17 OCT 78

R30060 CONFIGURATION 1A138 AMES 846-1-97 OTS POWER ON

SYMBOL	BETA
◇	-4.261
□	-.149
○	3.877

PARAMETRIC VALUES

SRBPR	753.115
SSMEPR	1329.449
ELV-IB	.000
ELV-OB	2.000
MACH	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

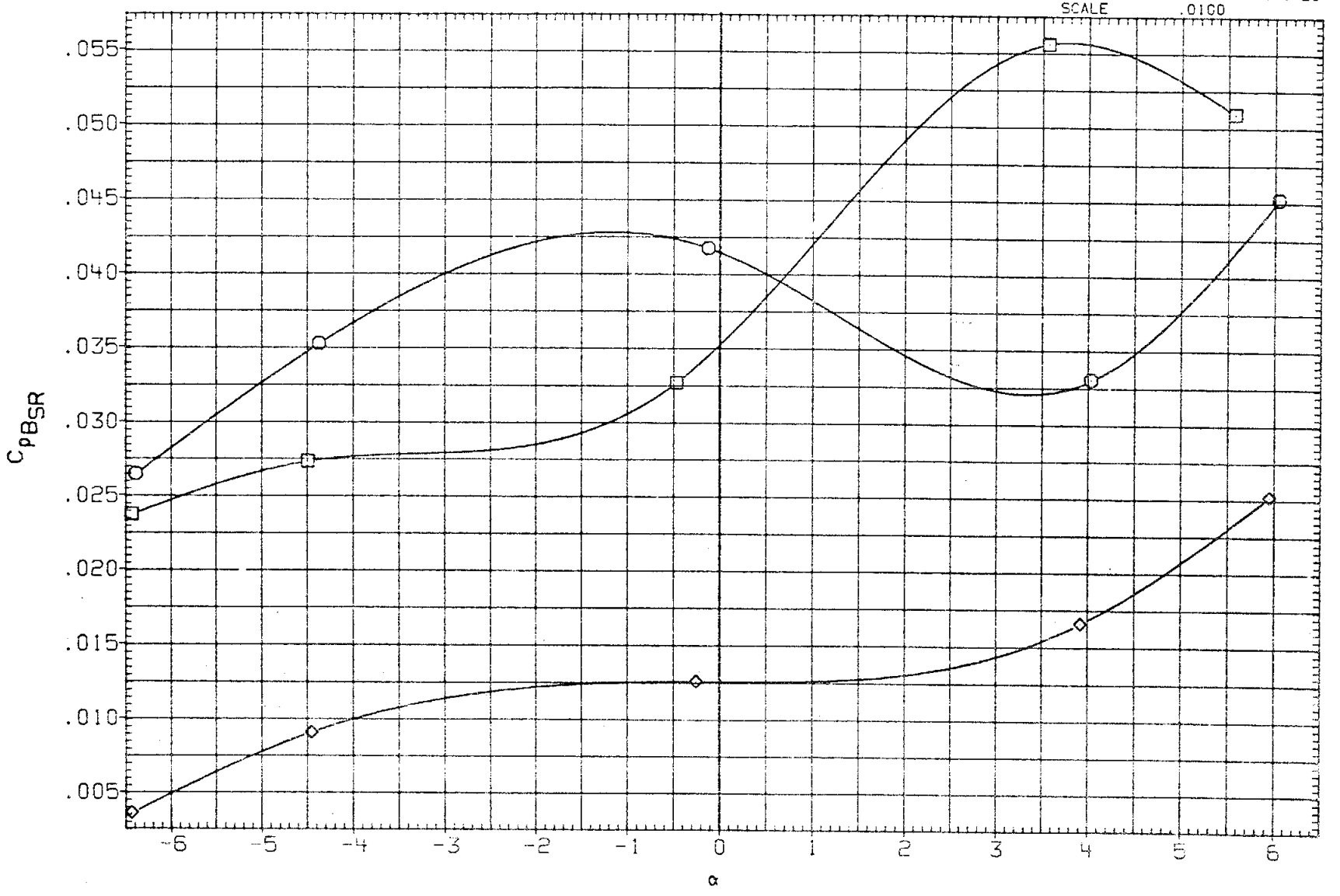

FIG. 69 EFFECT OF ALPHA ON AREA WEIGHTED BASE PRESS.,ELEVON=0/2 MACH=2.5

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.282	372.504
C3D032	◇	AMES 246-1-97 IA139 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

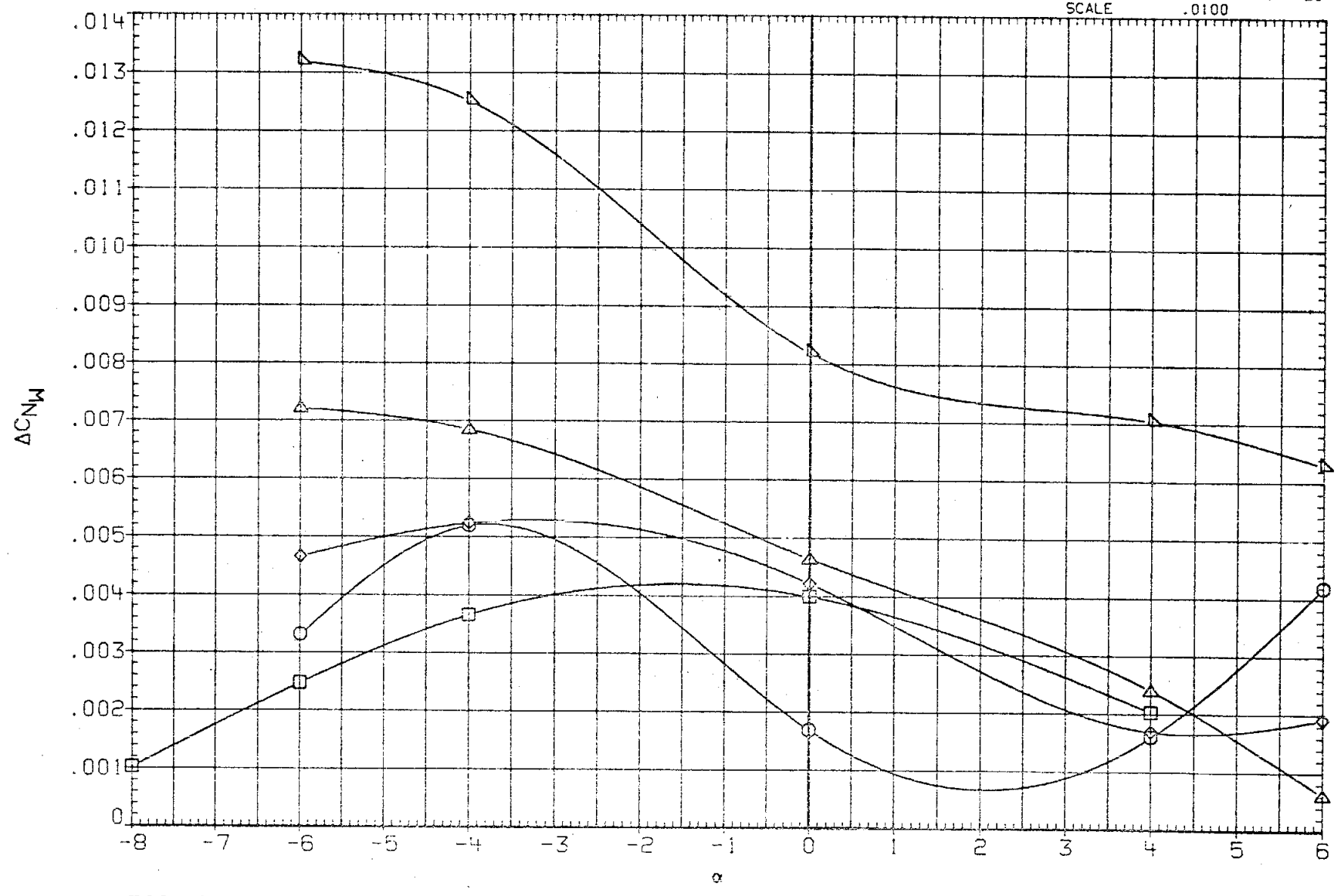

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

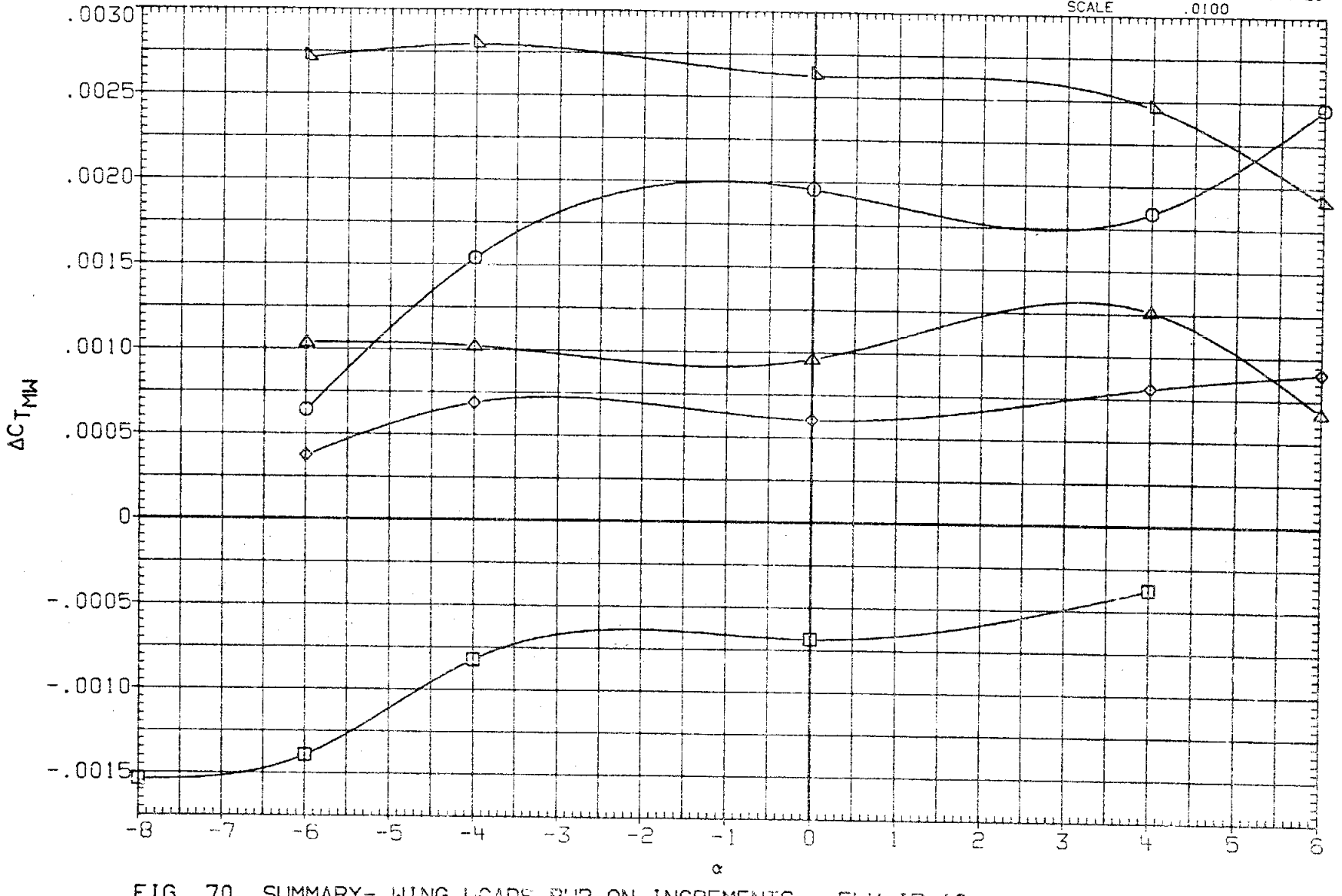

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

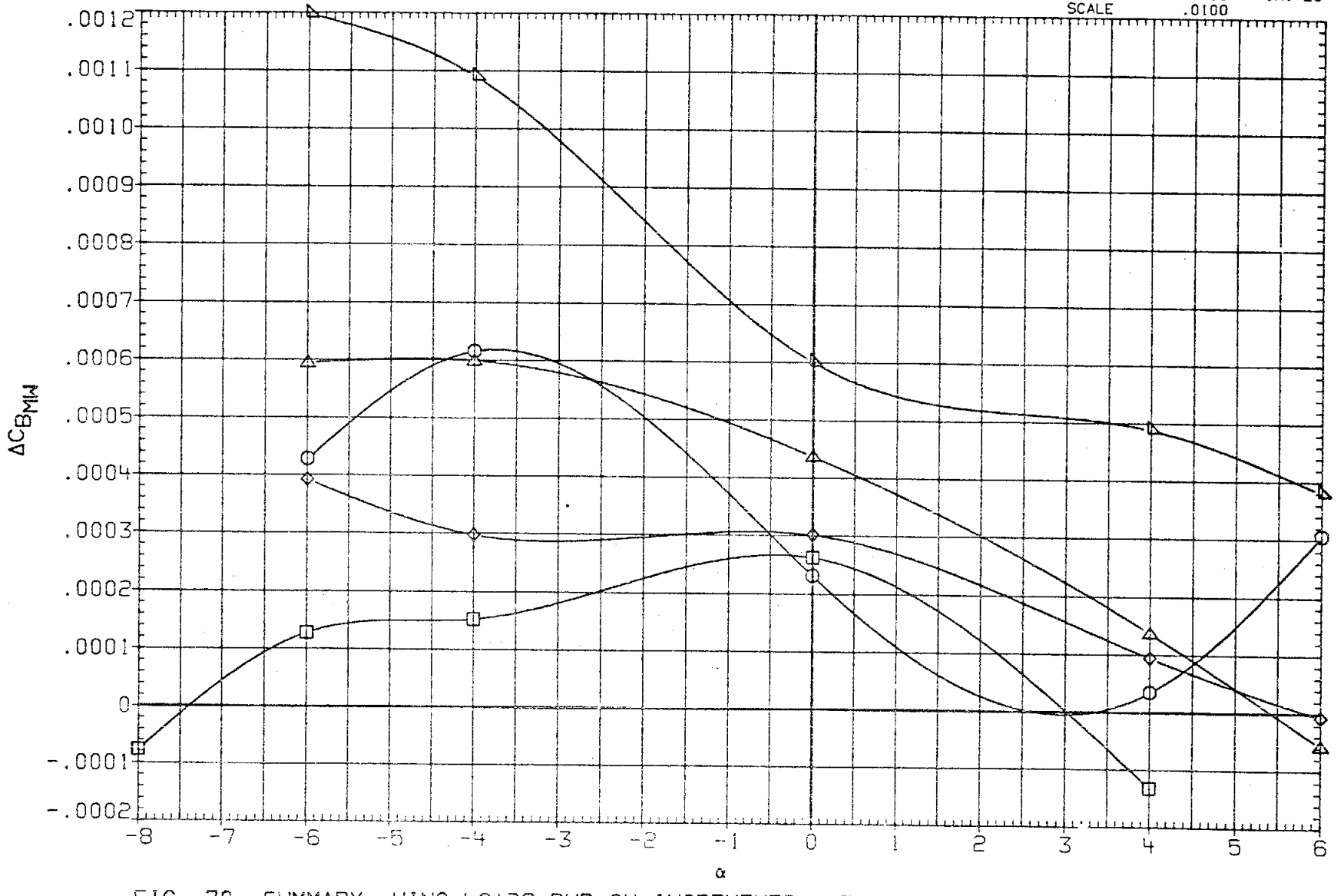

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS. ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

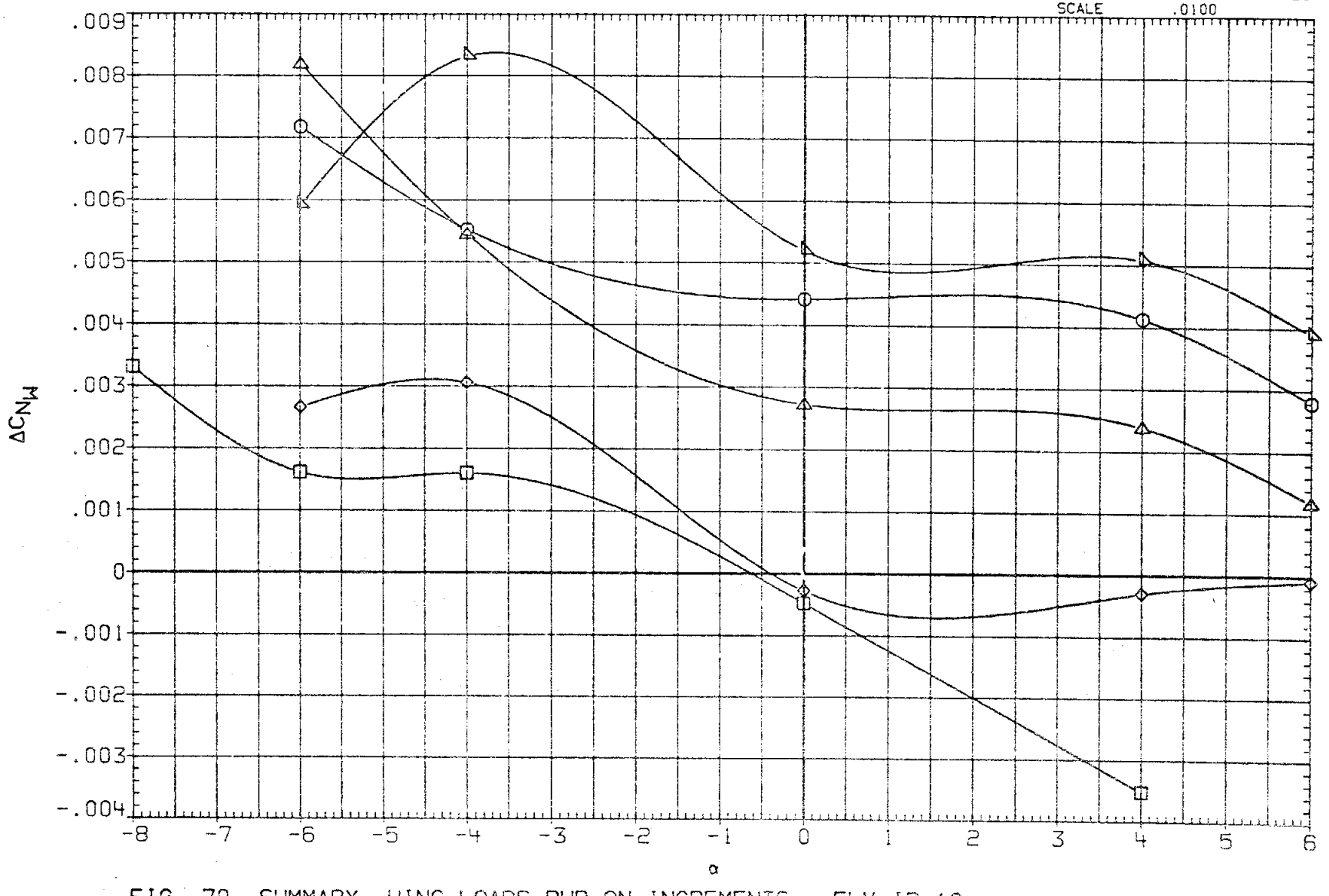

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00 DATE 17 OCT 79 PAGE 340

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

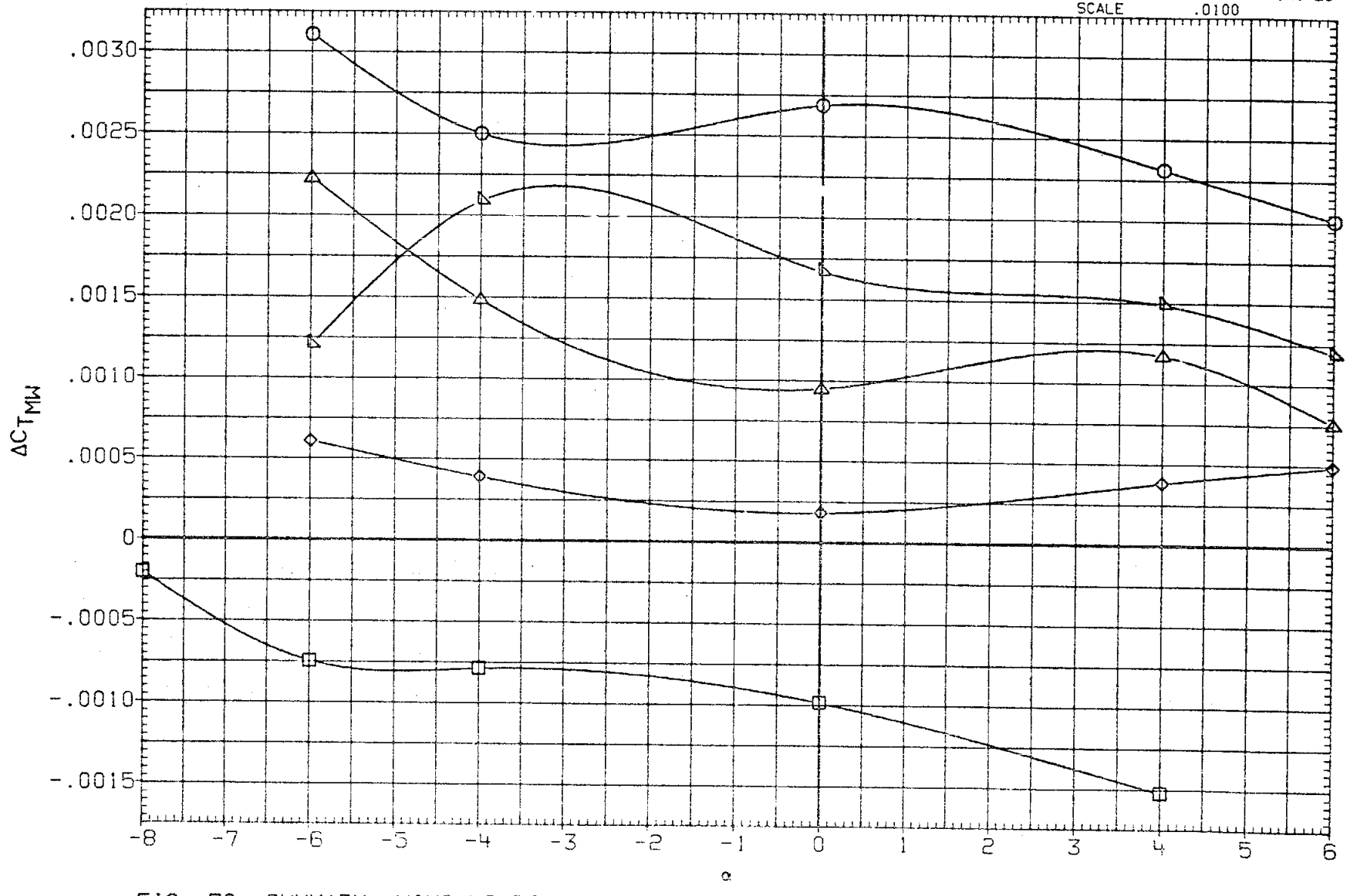

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

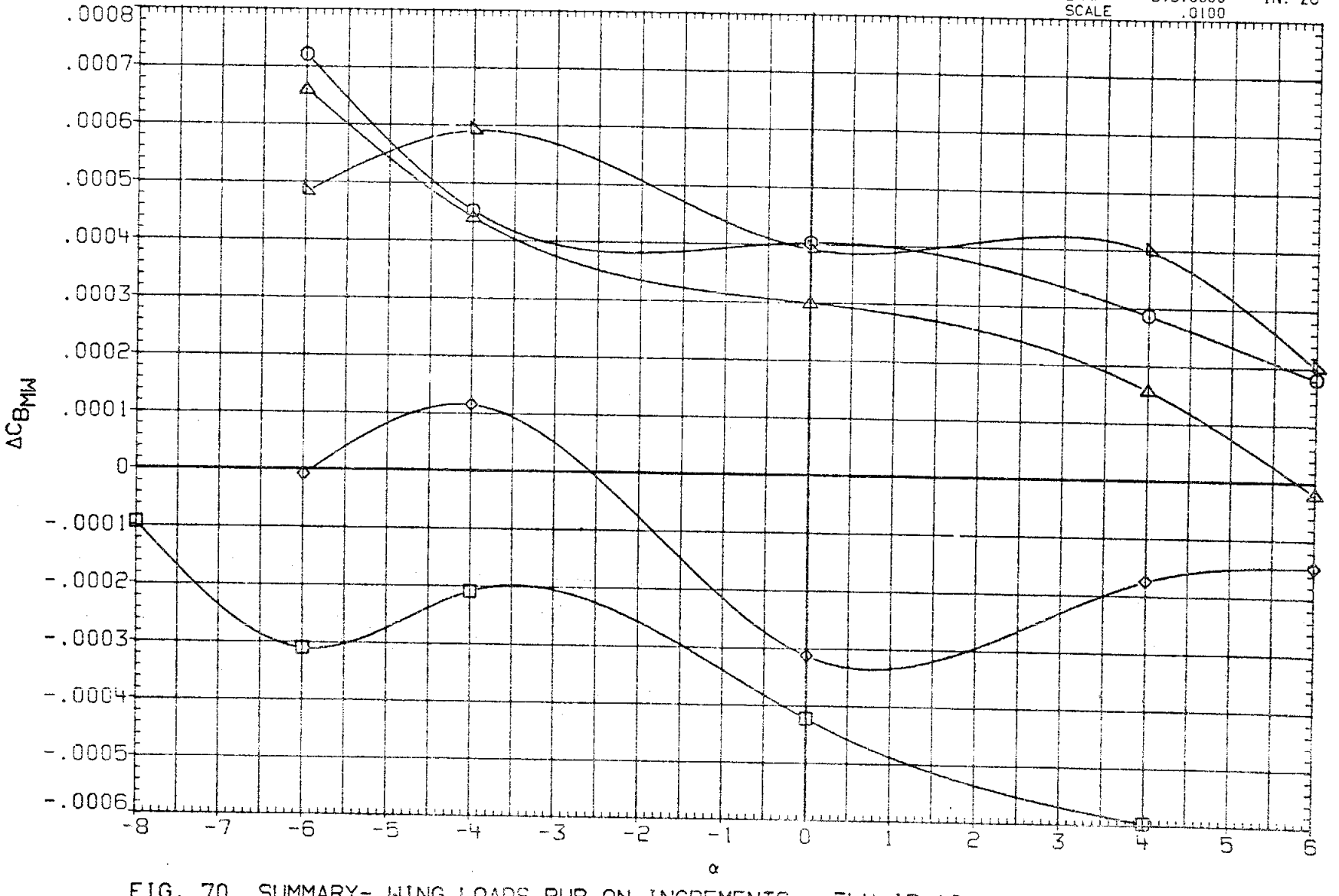

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.971
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.900	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

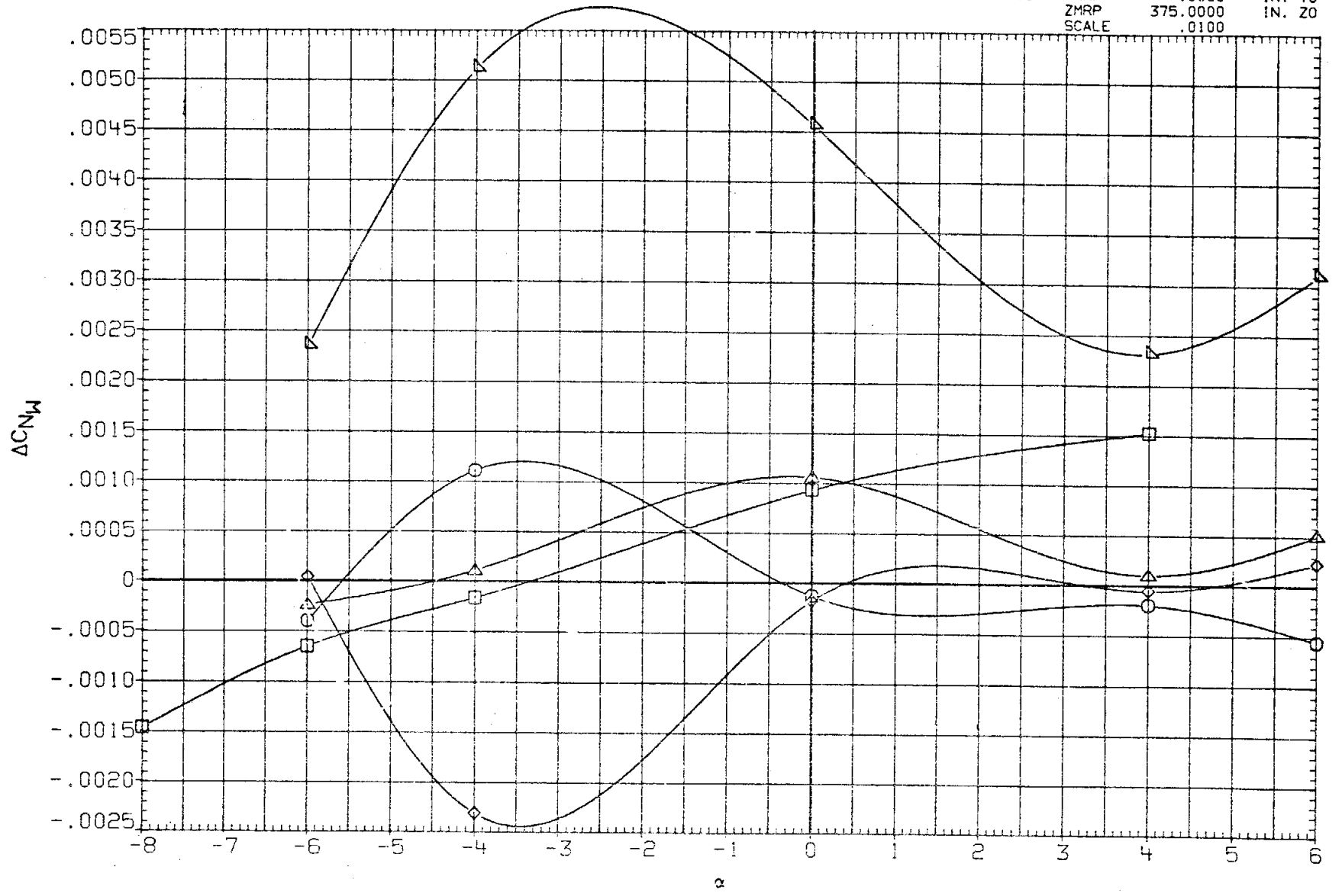

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREFR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

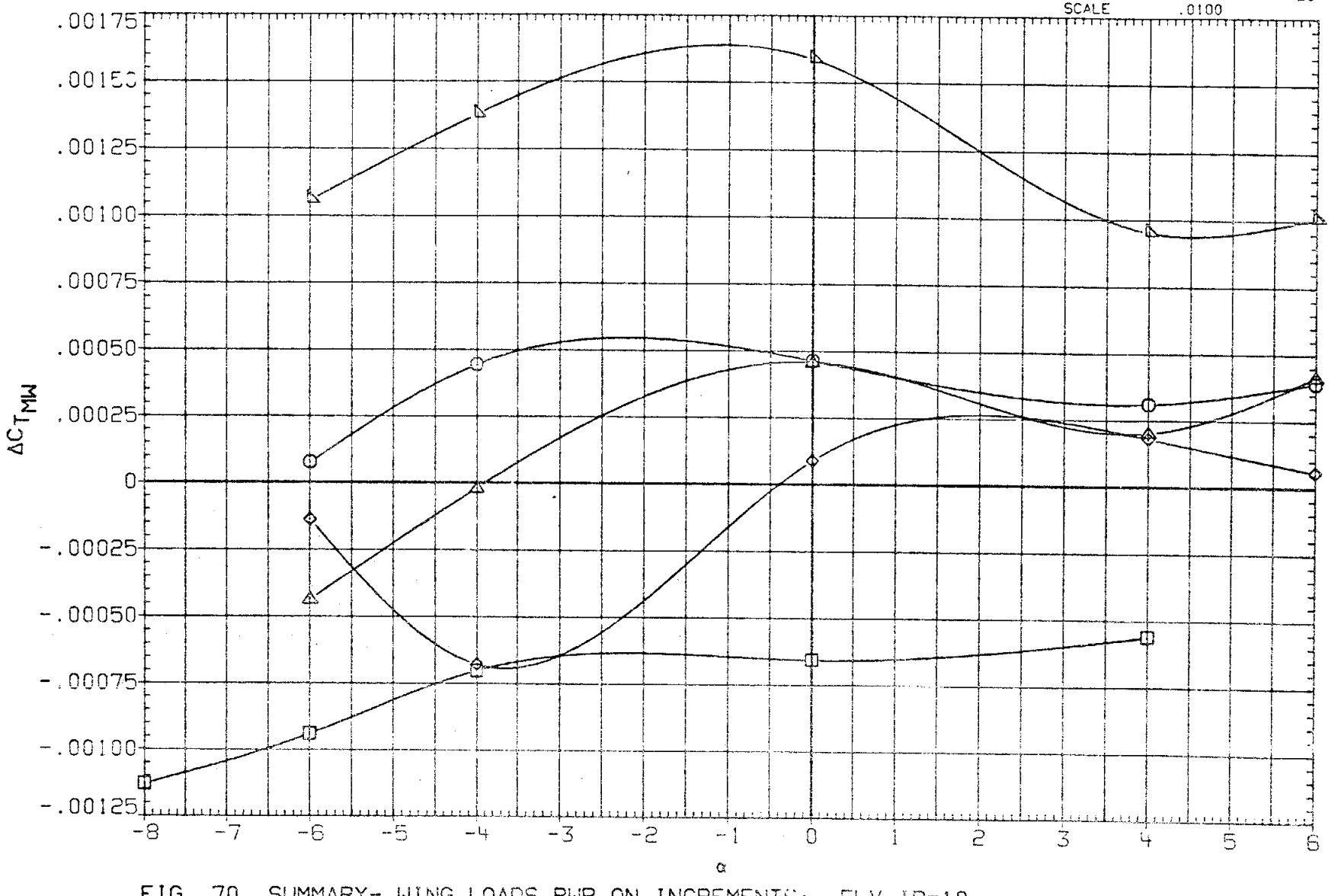

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

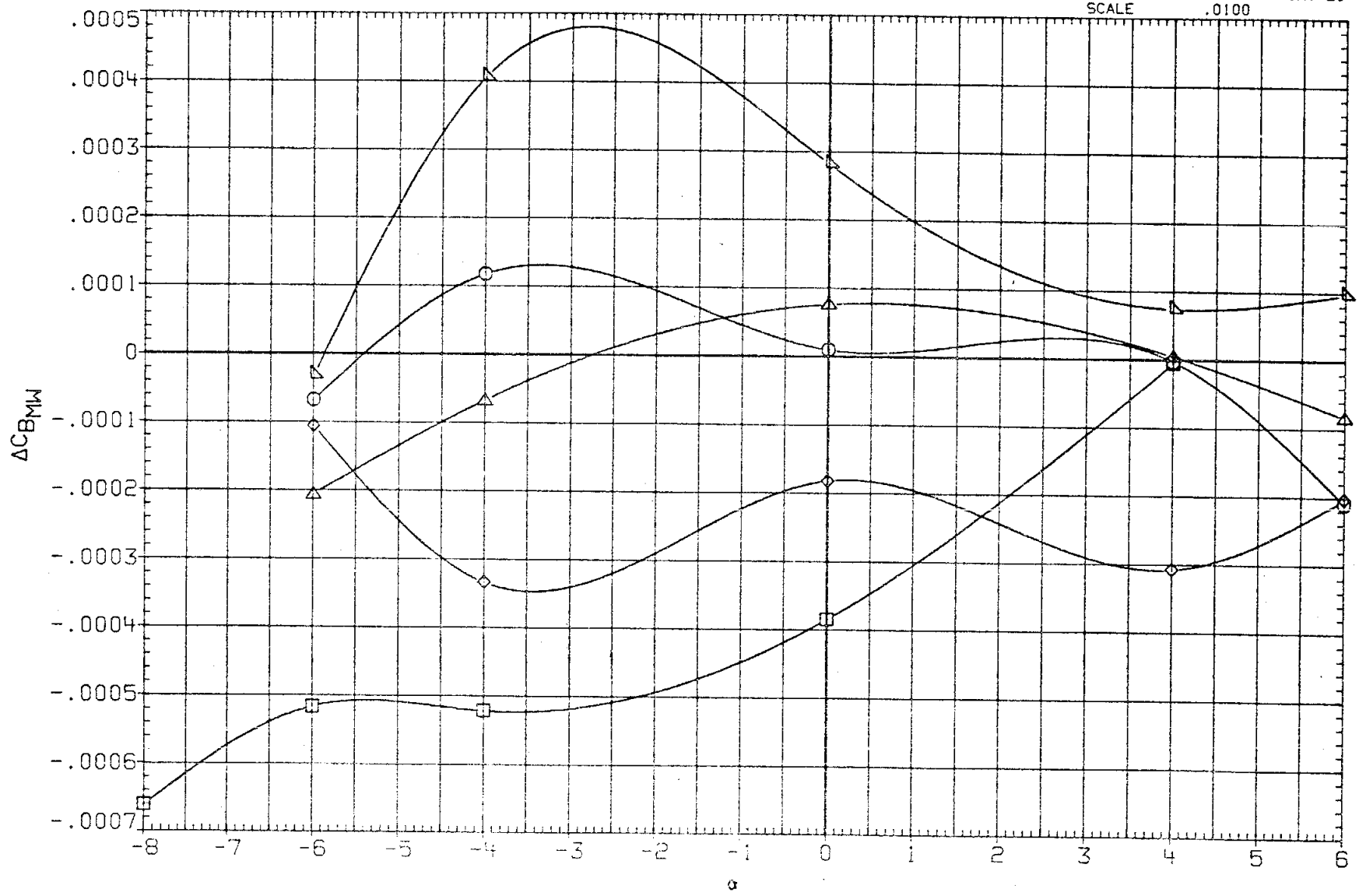

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

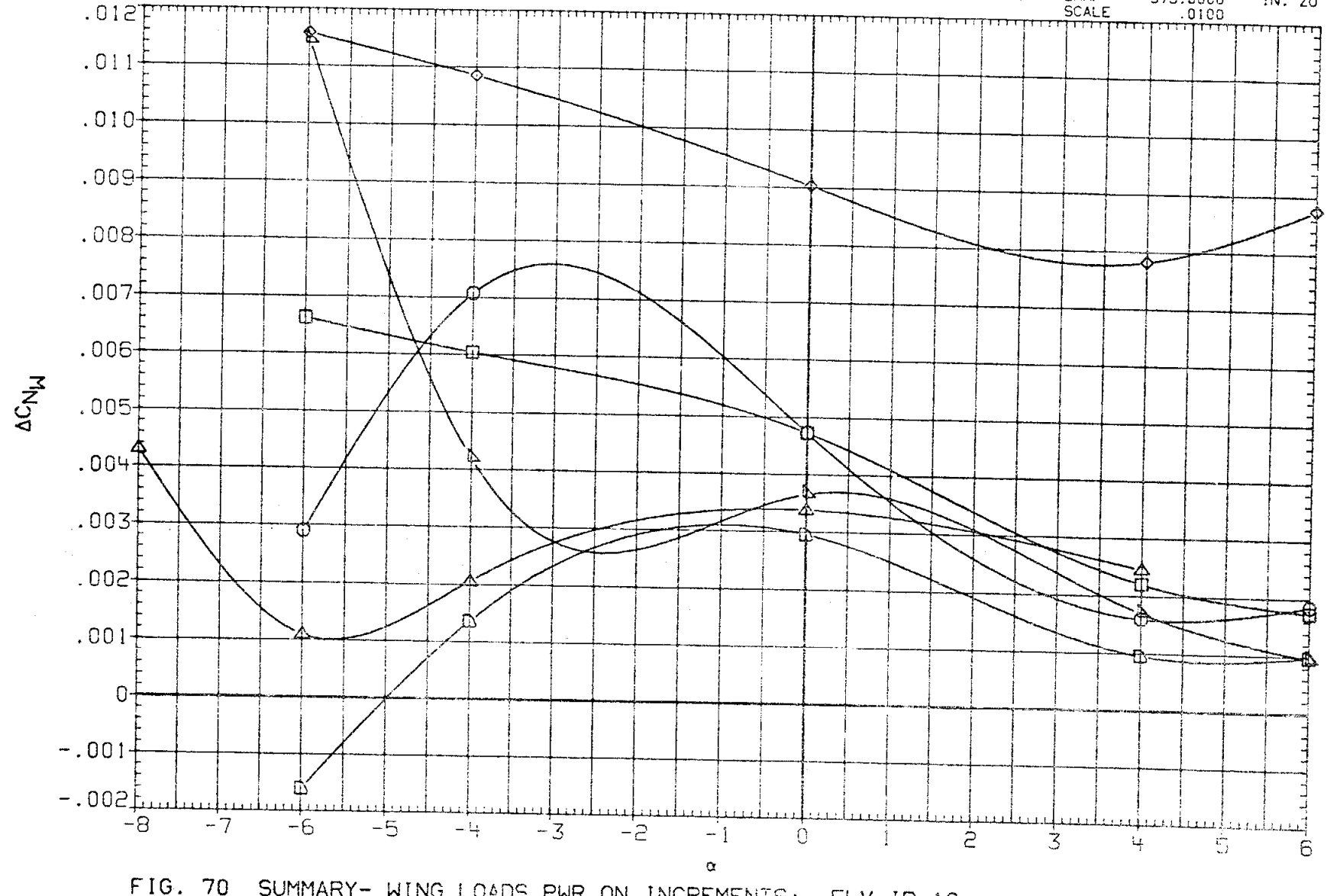

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	D	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

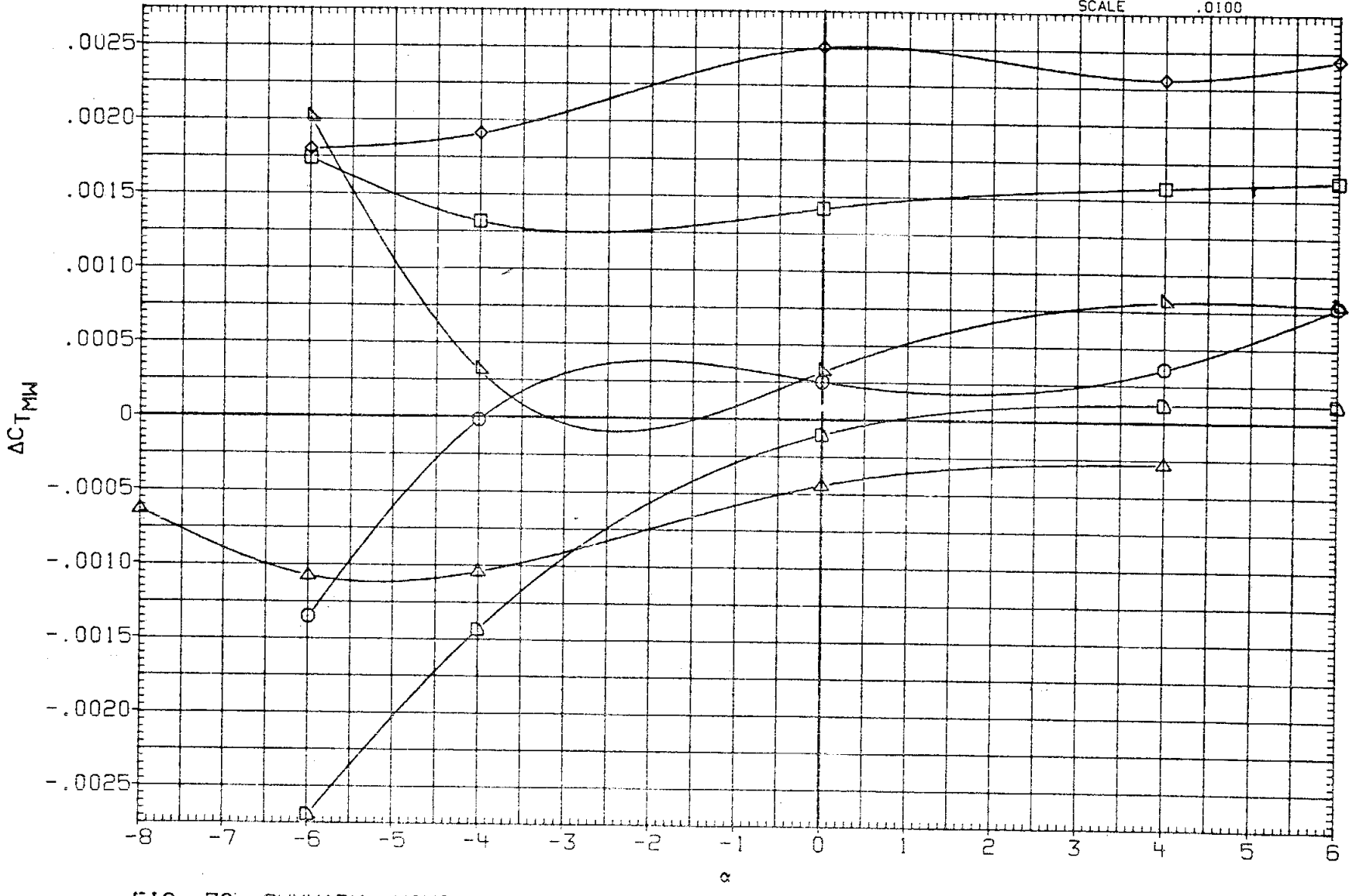

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.654	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	D	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

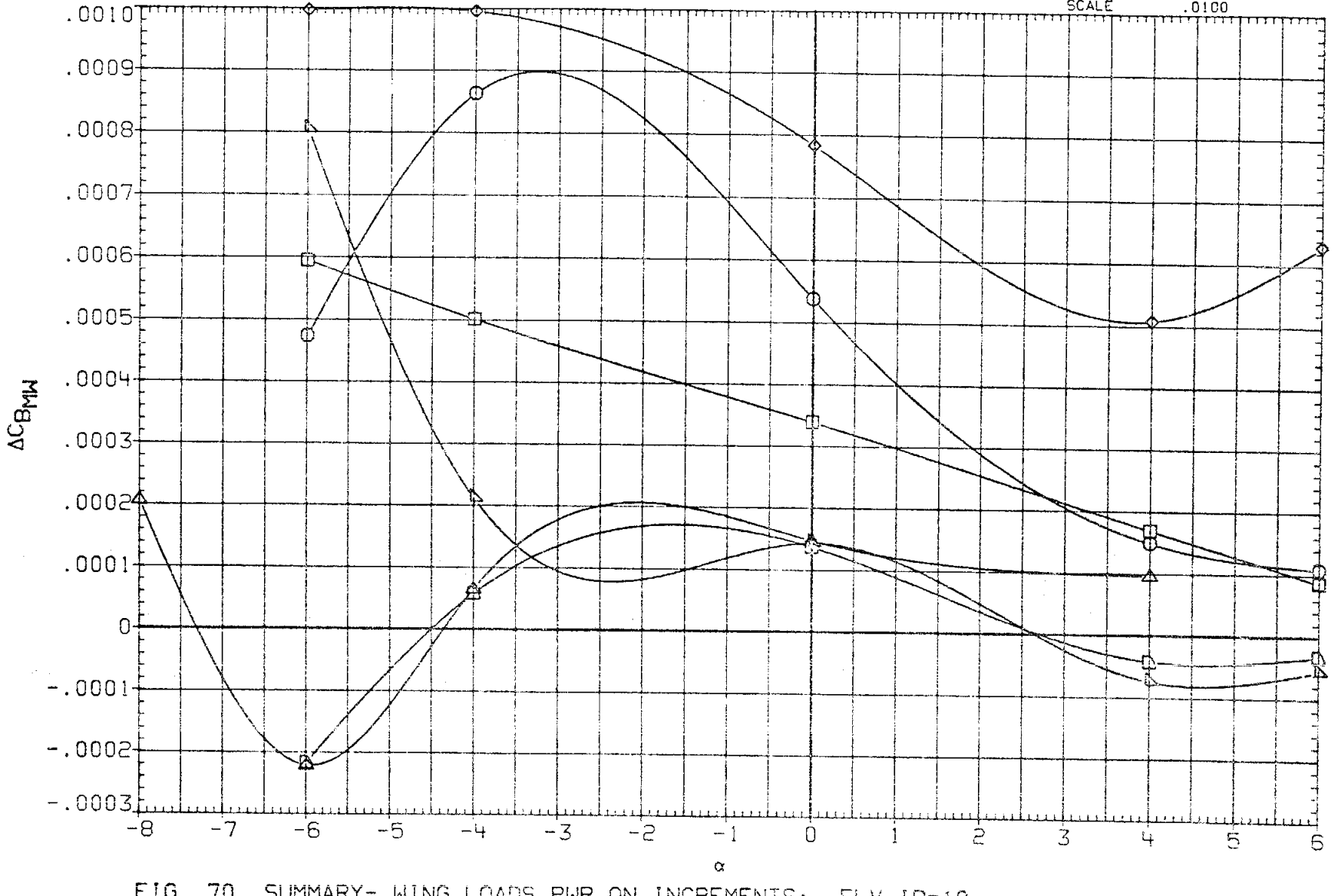

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA136 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA136 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

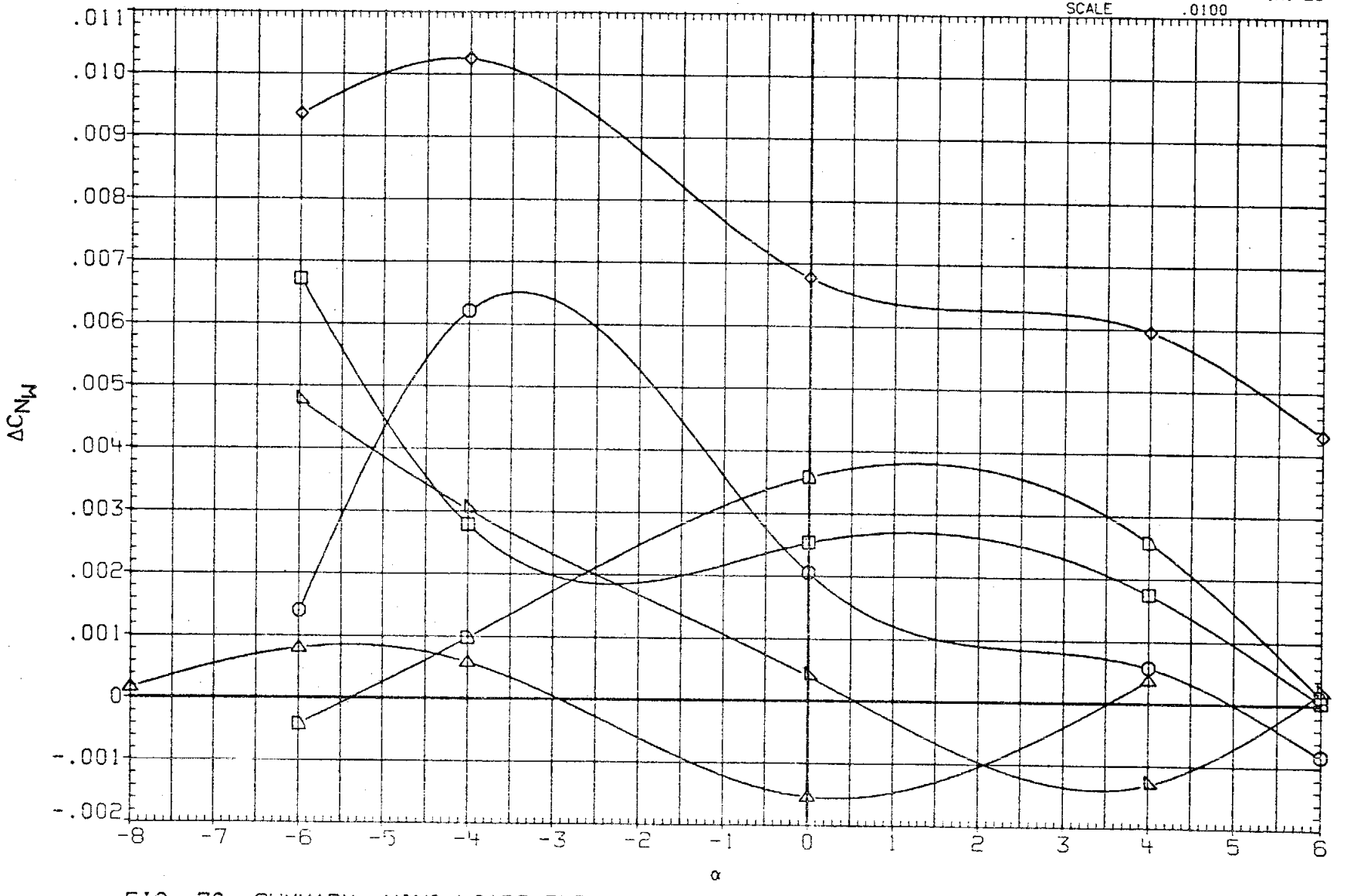

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	+79.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

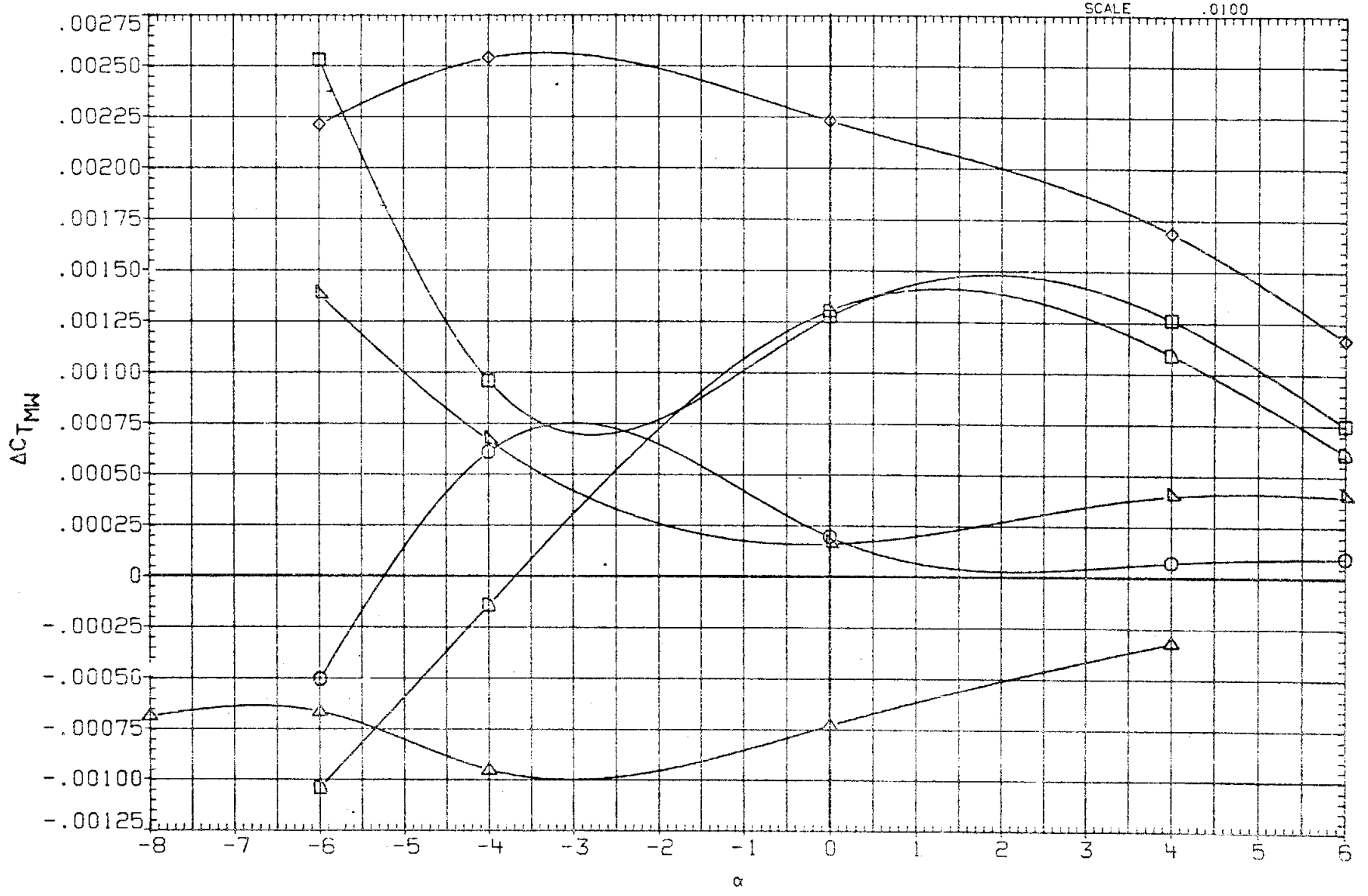

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00 DATE 17 OCT 78 PAGE 350

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMCPR
C3D035	○	AMES 245-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	⊿	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▱	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

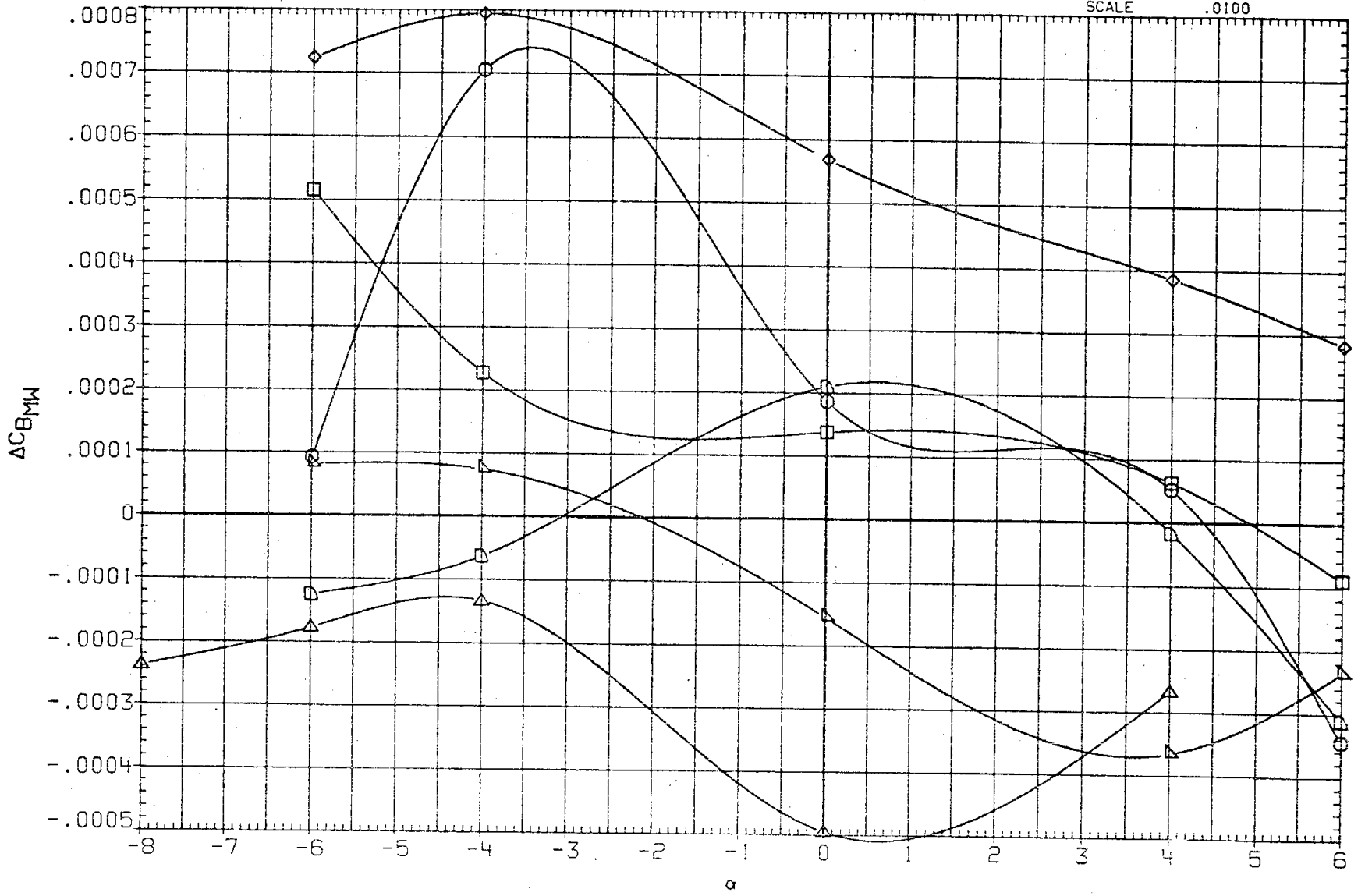

FIG. 70 SUMMARY WING LOADS PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
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YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

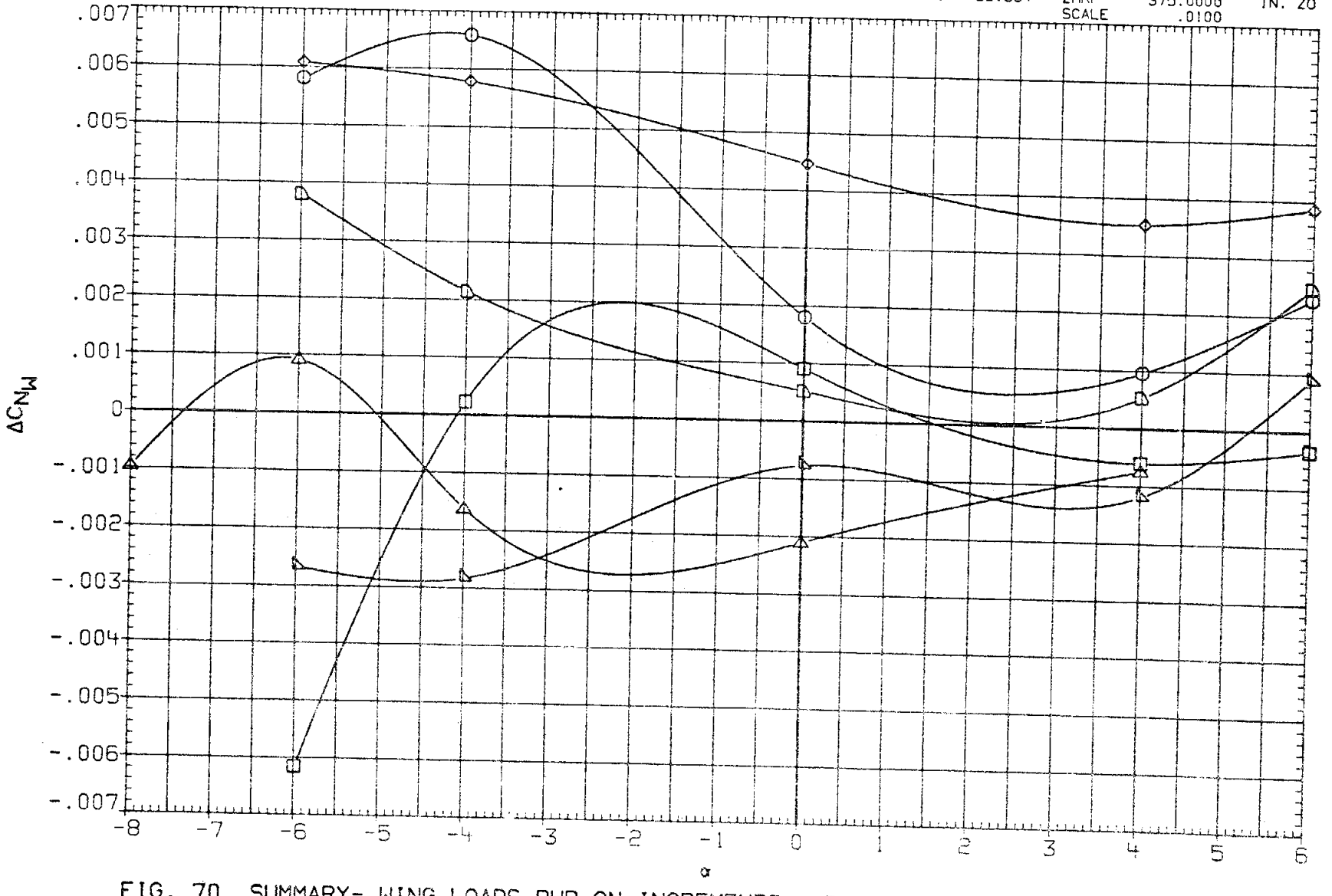

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

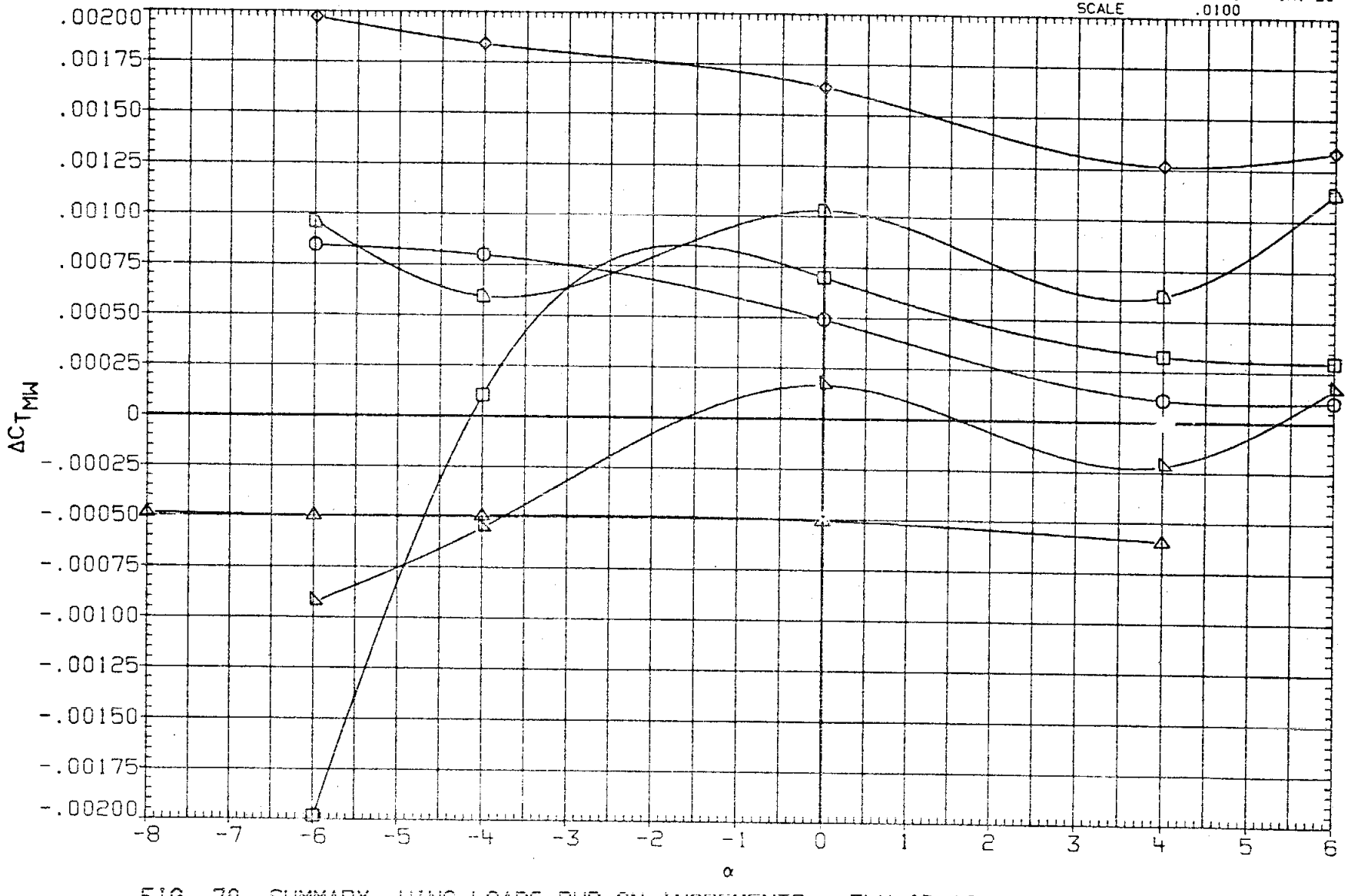

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREFR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.654	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	◺	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▱	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

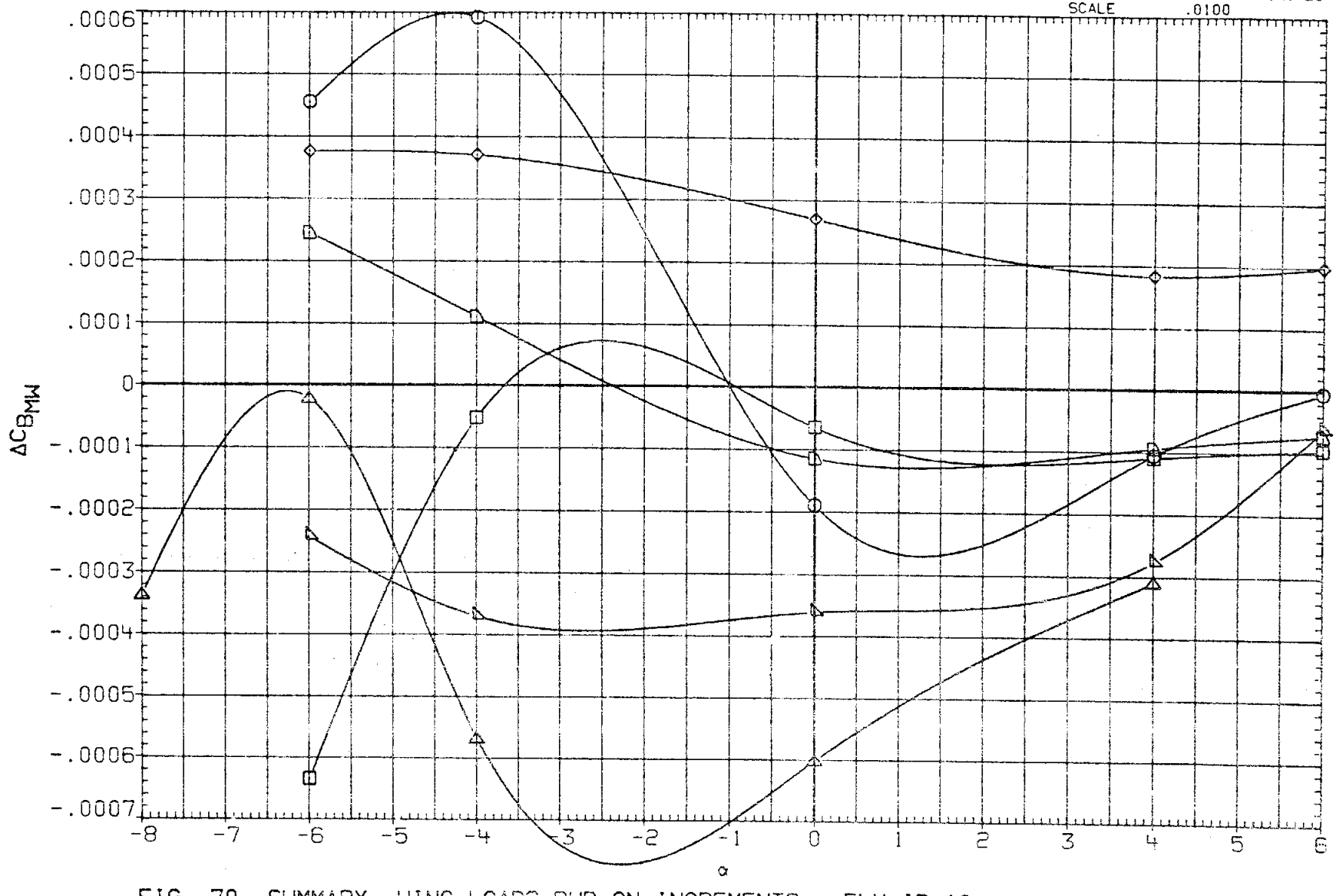

FIG. 70 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 354

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

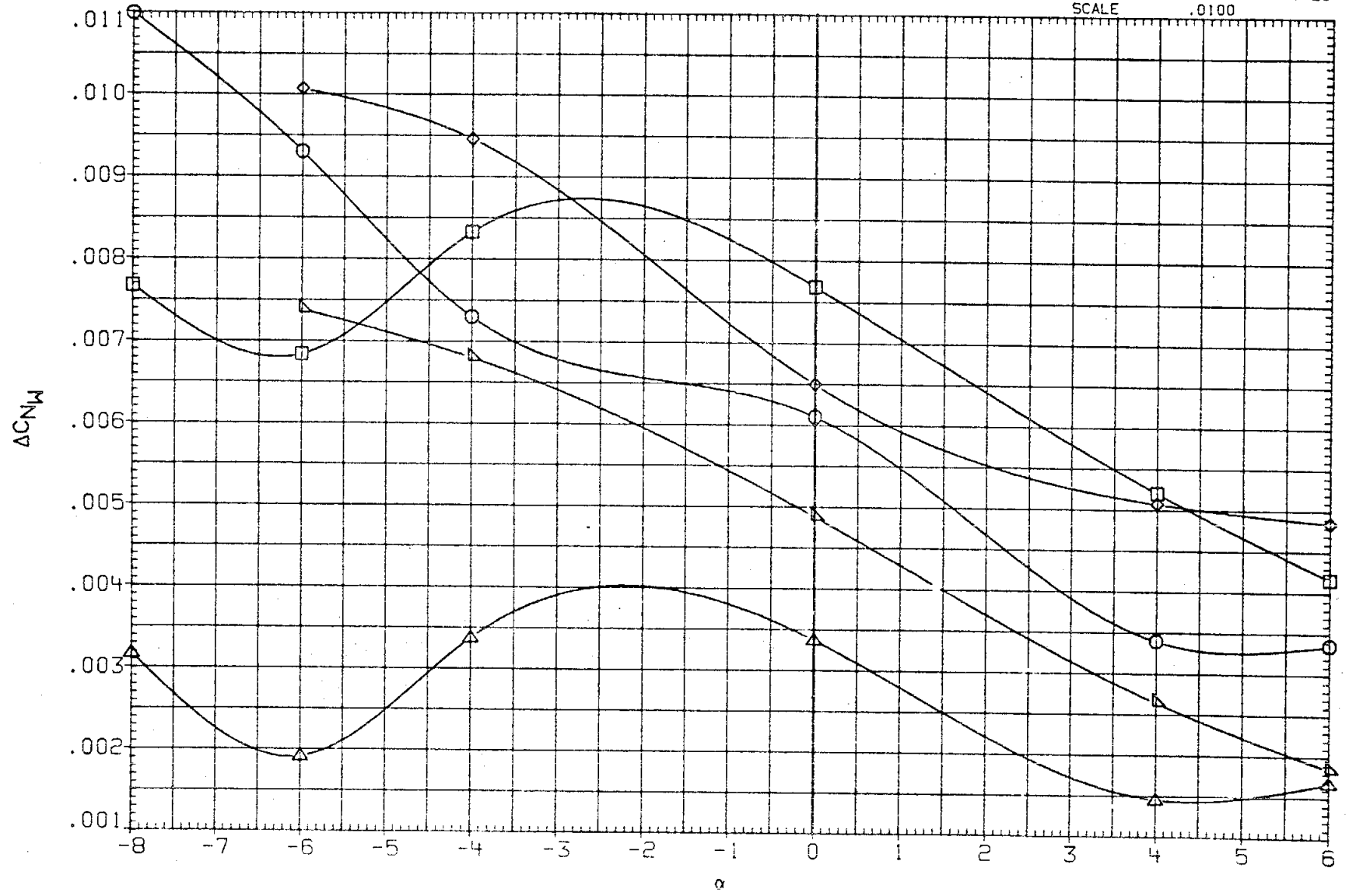

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	◸	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	935.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

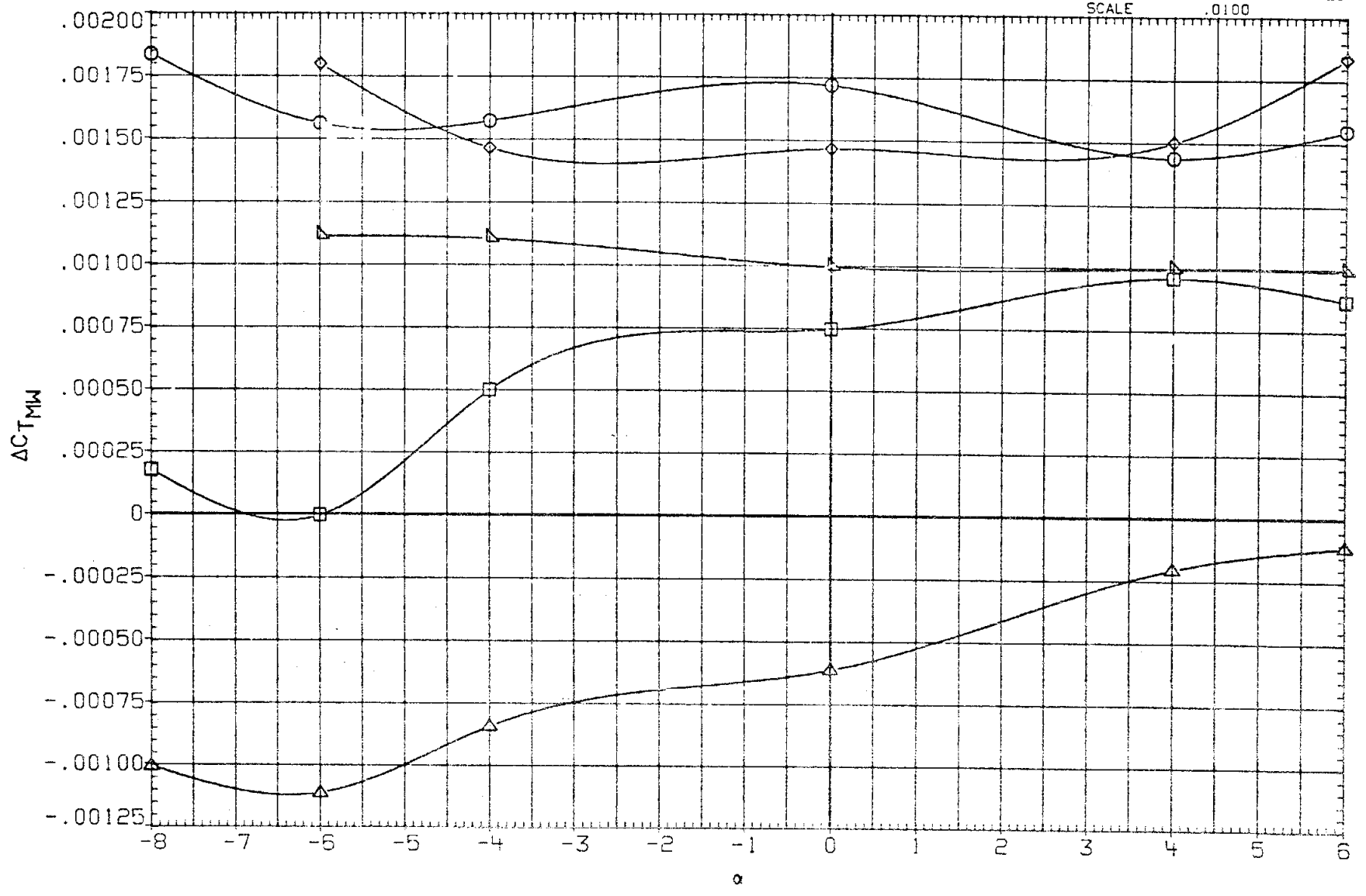

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(A)BETA = -4.00

DATE 17 OCT 78

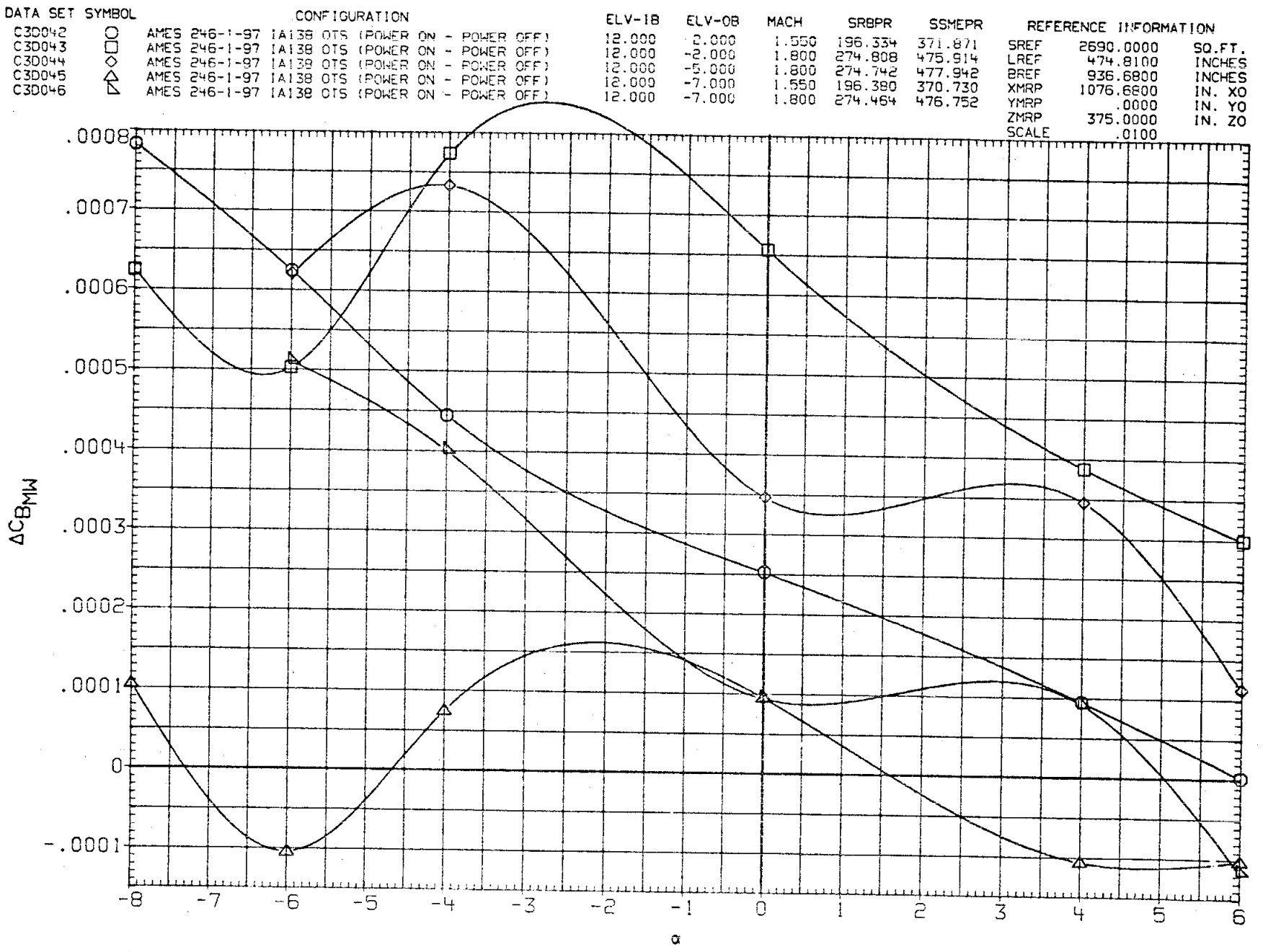

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(A)BETA = .-4.00

DATE 17 OCT 72

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

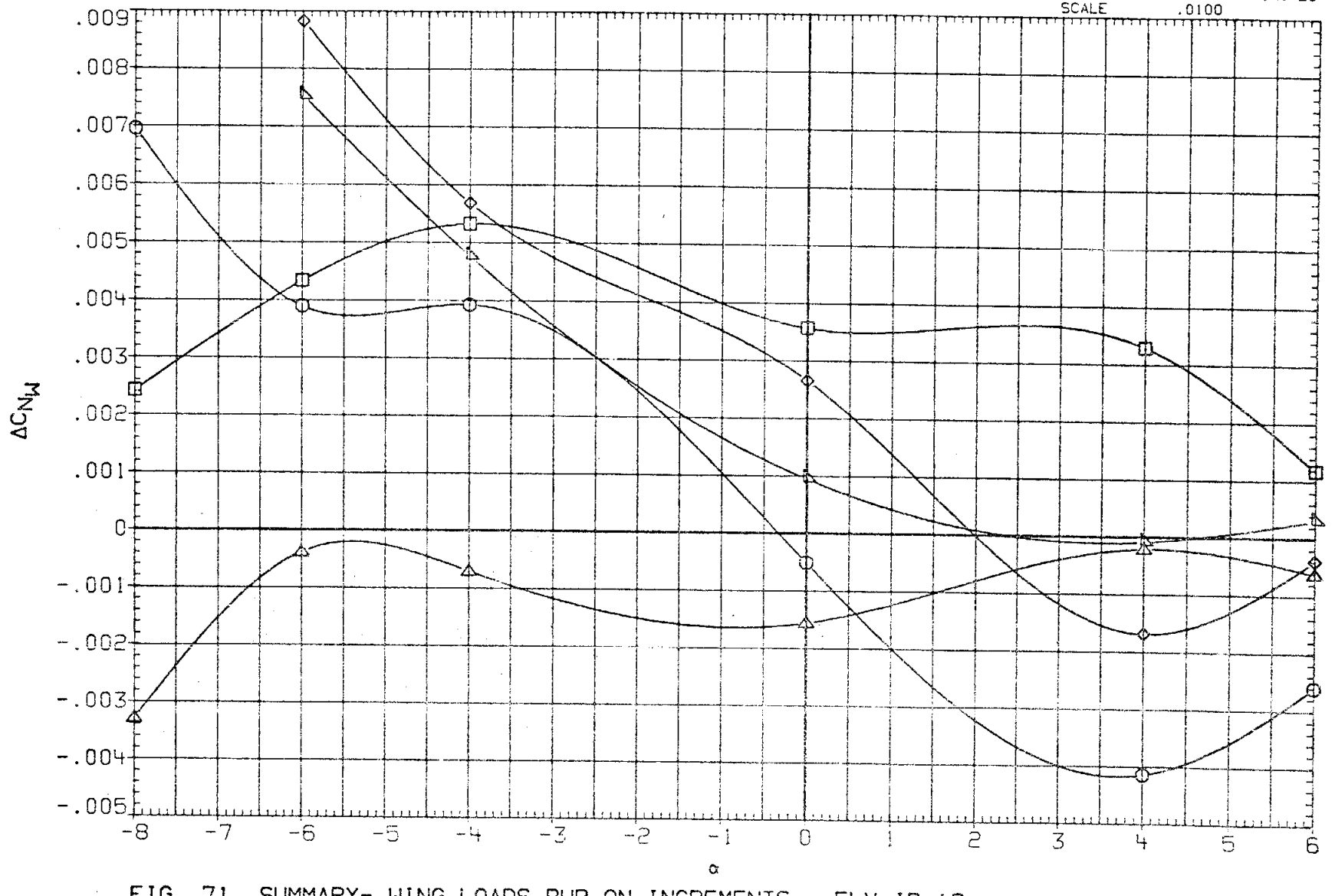

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

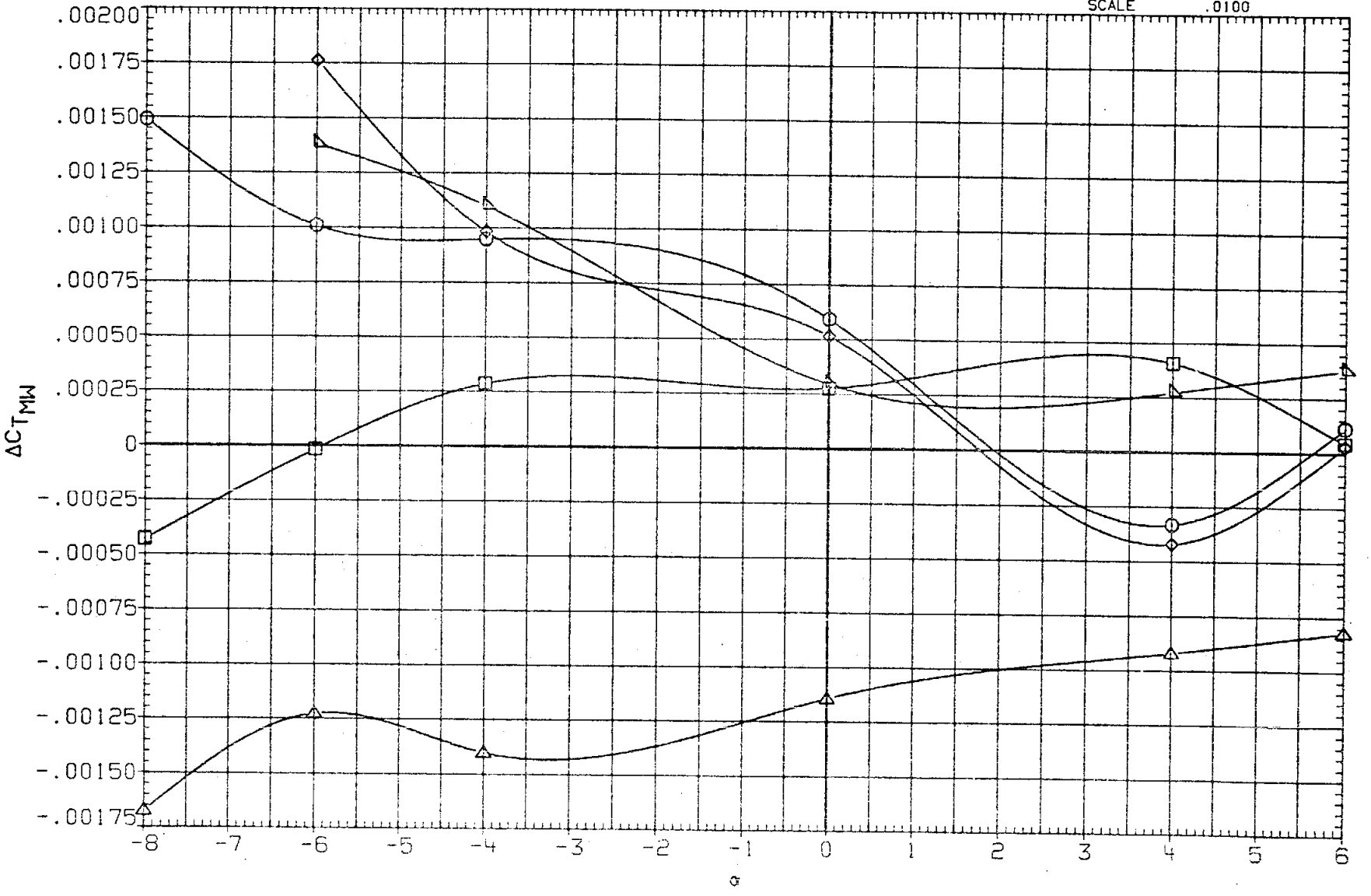

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

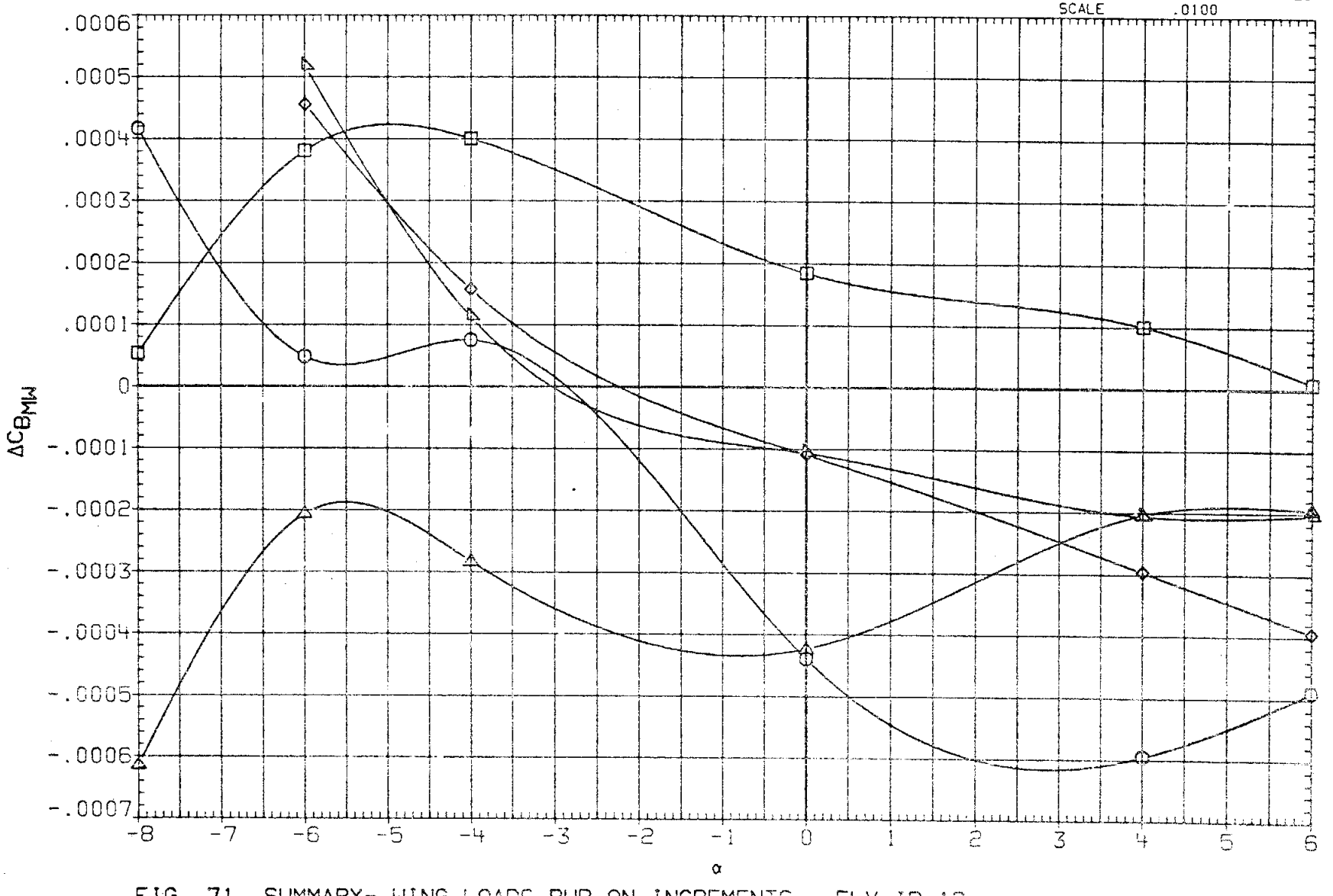

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(B)BETA = .00

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

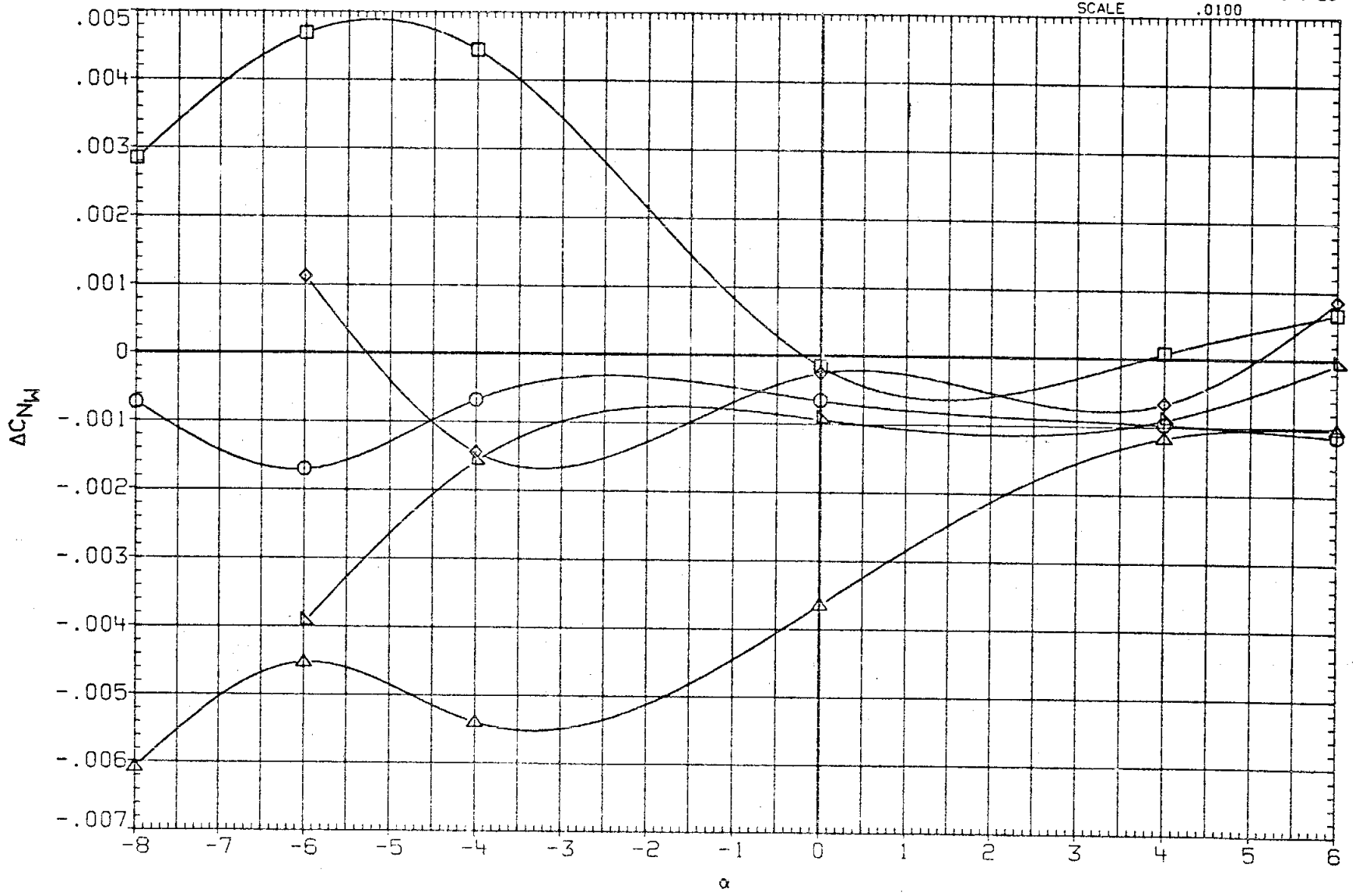

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	195.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

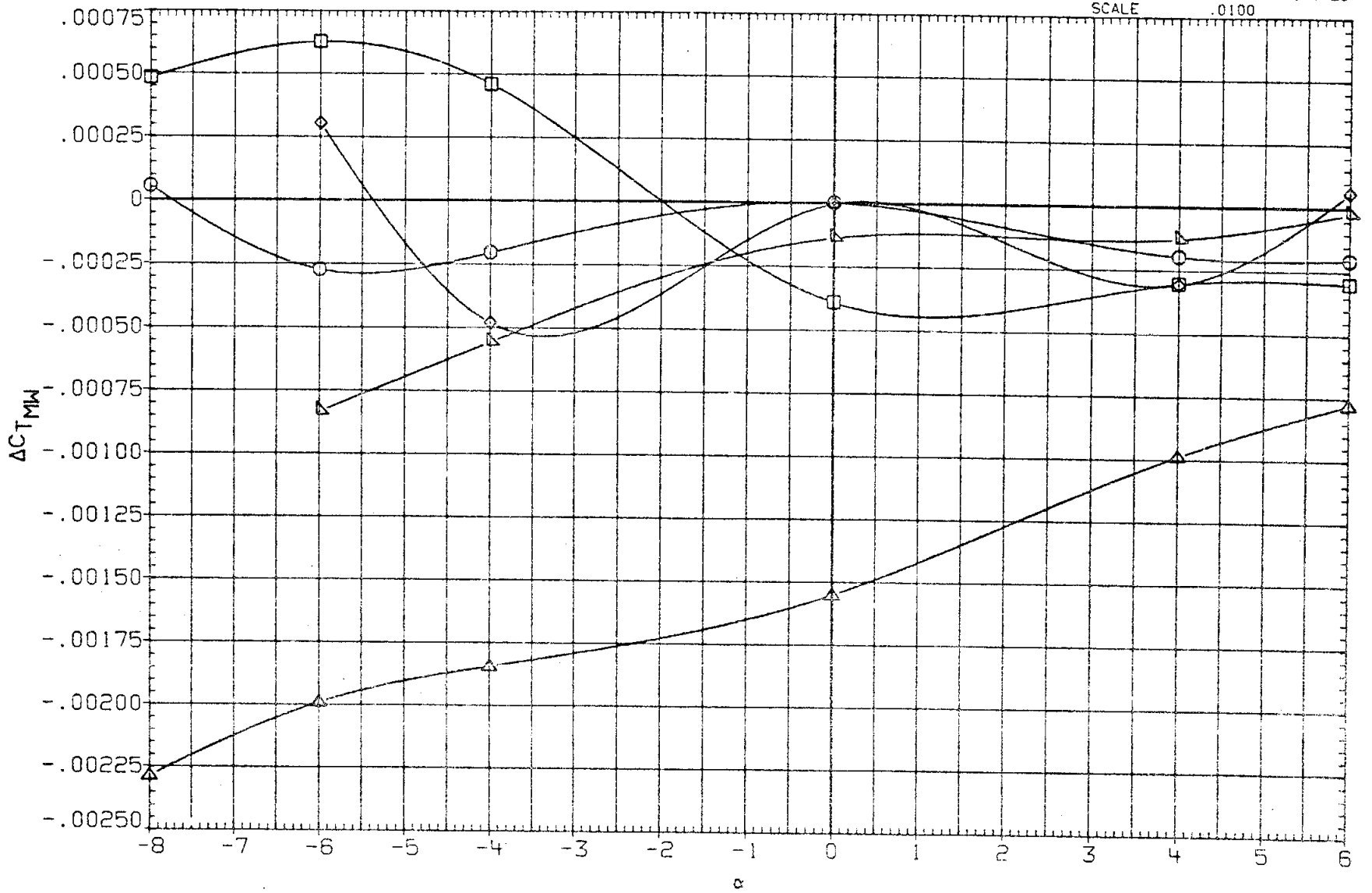

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

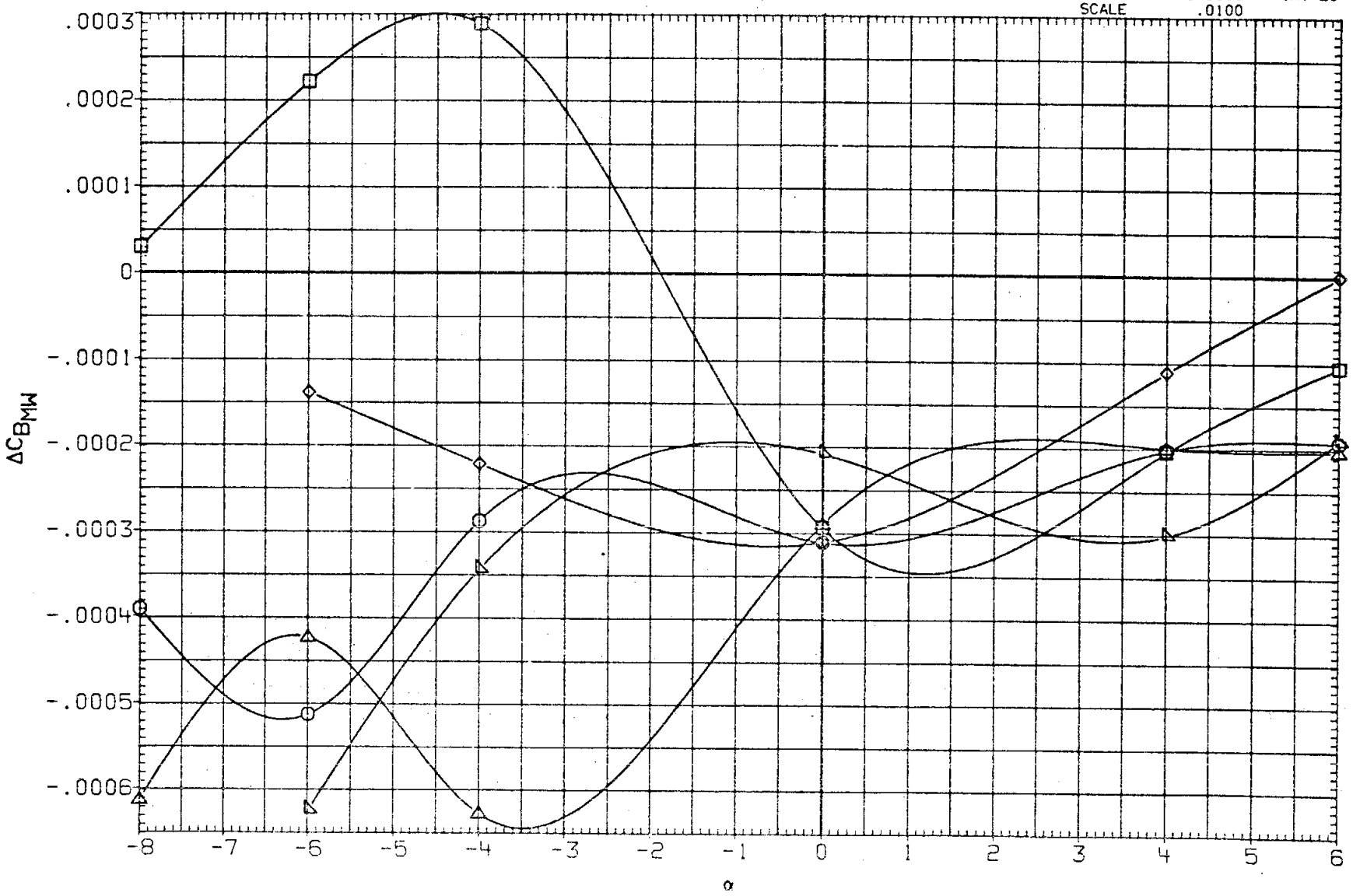

FIG. 71 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=12

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	933.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

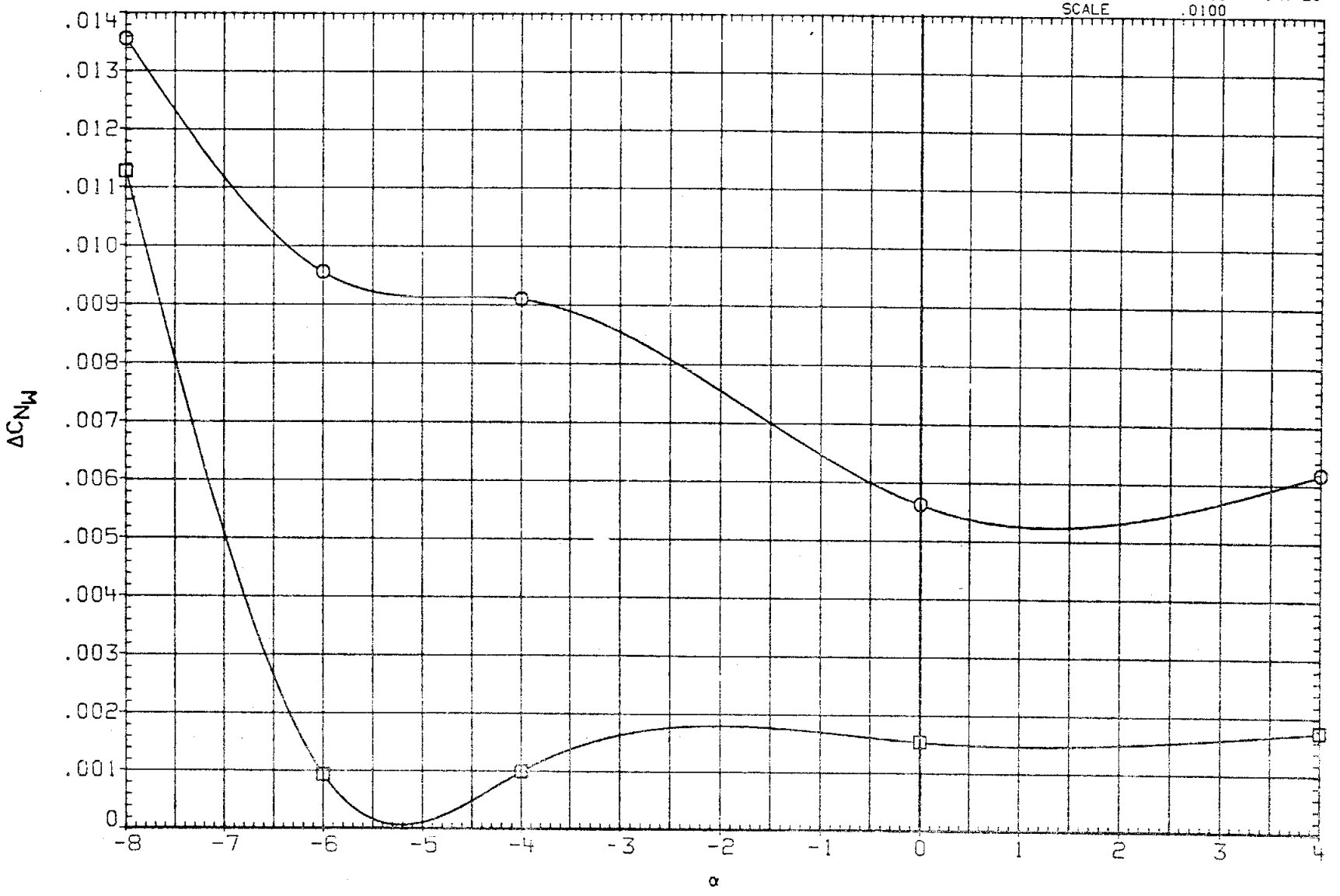

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

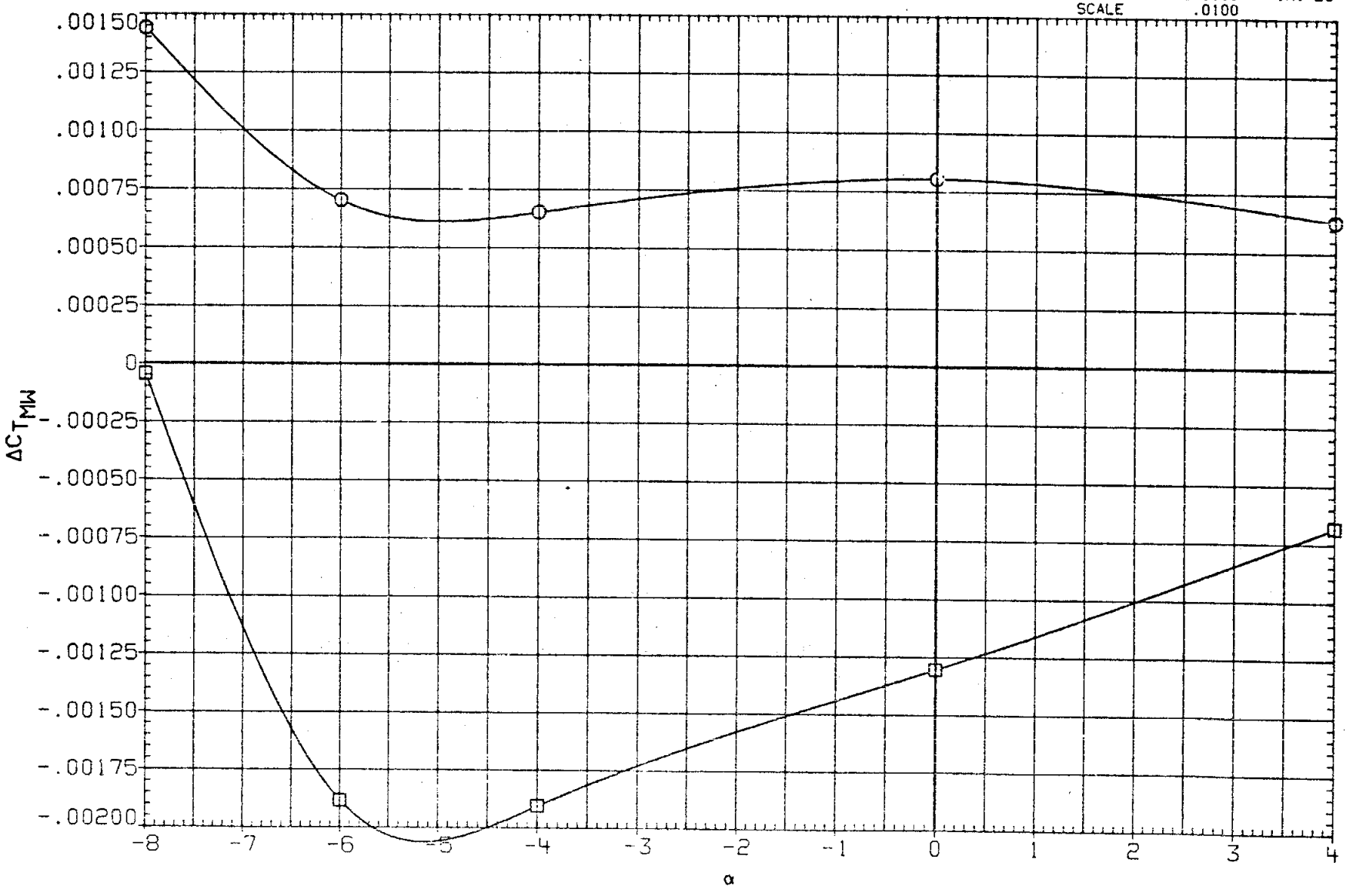

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET SYMBOL		CONFIGURATION	ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

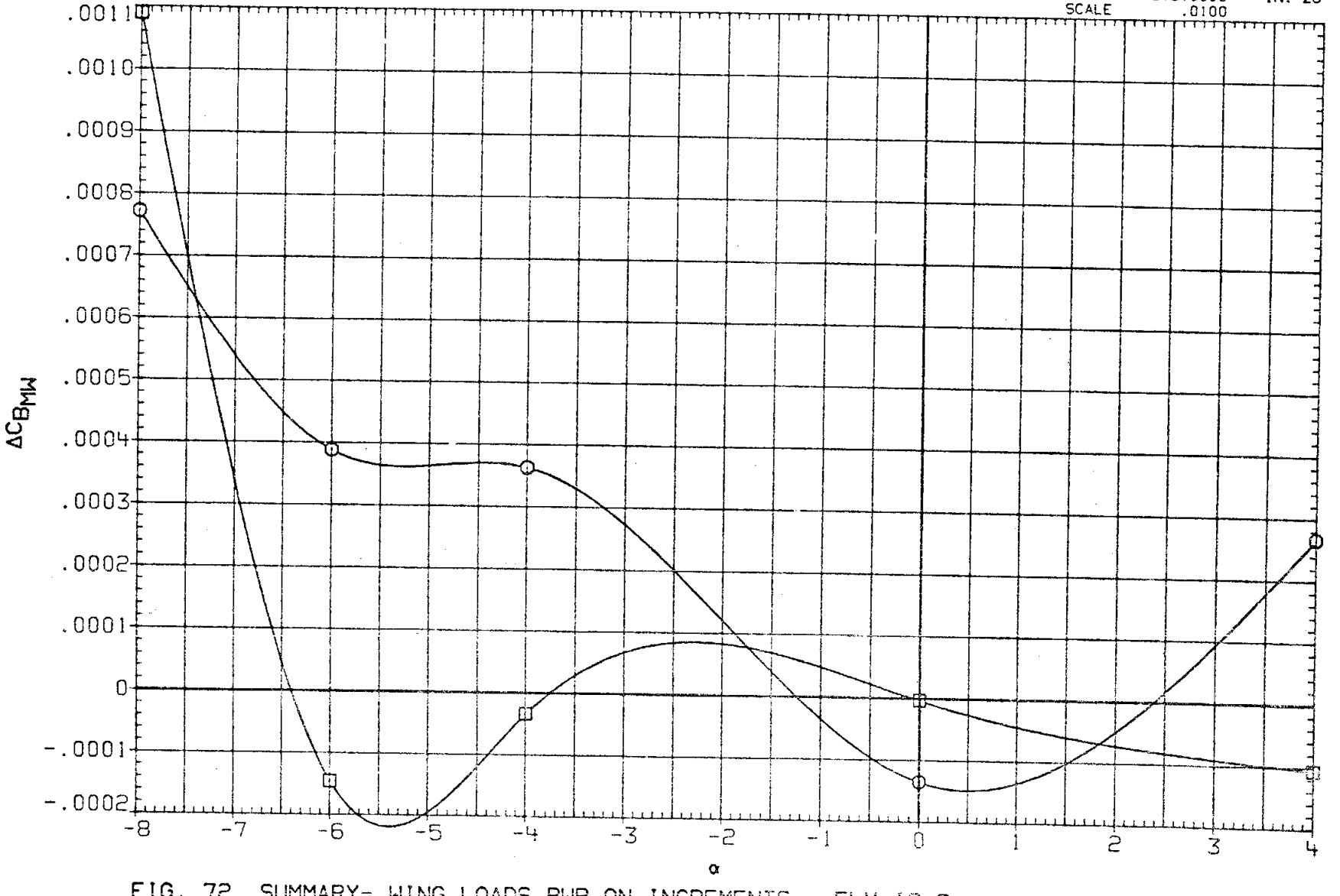

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-1B=8

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRGPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

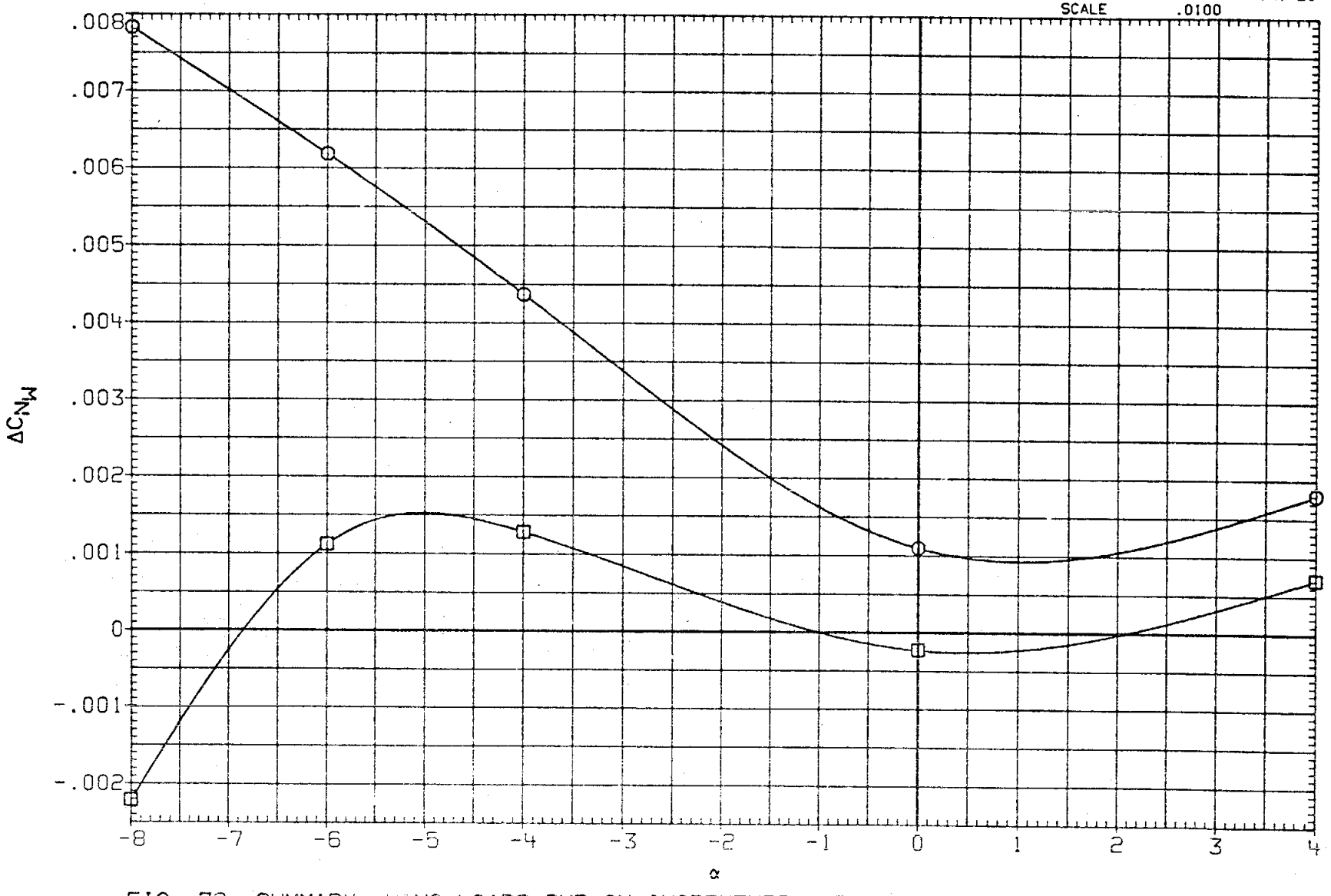

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(B)BETA = .00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

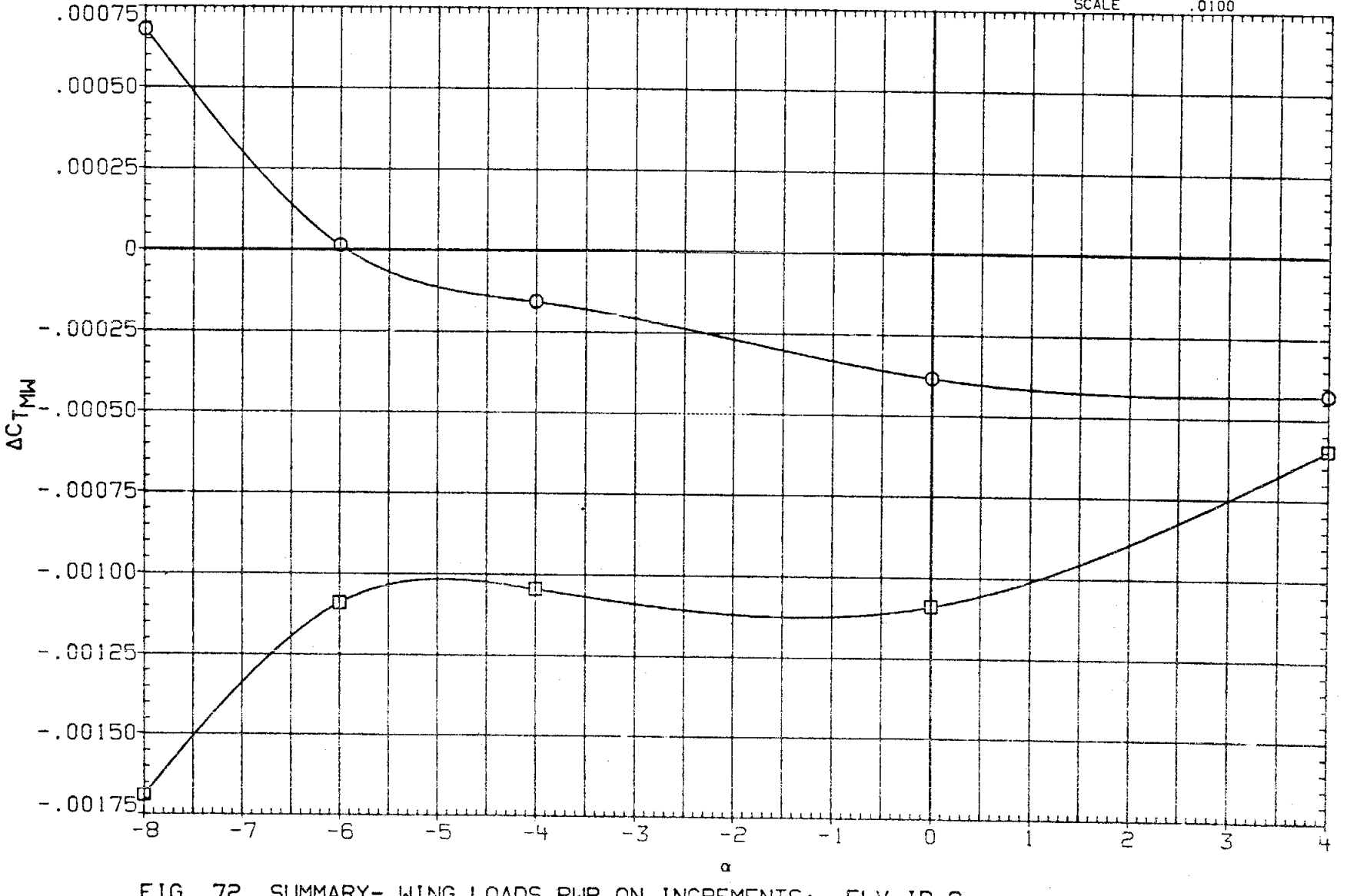

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(B)BETA = .00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

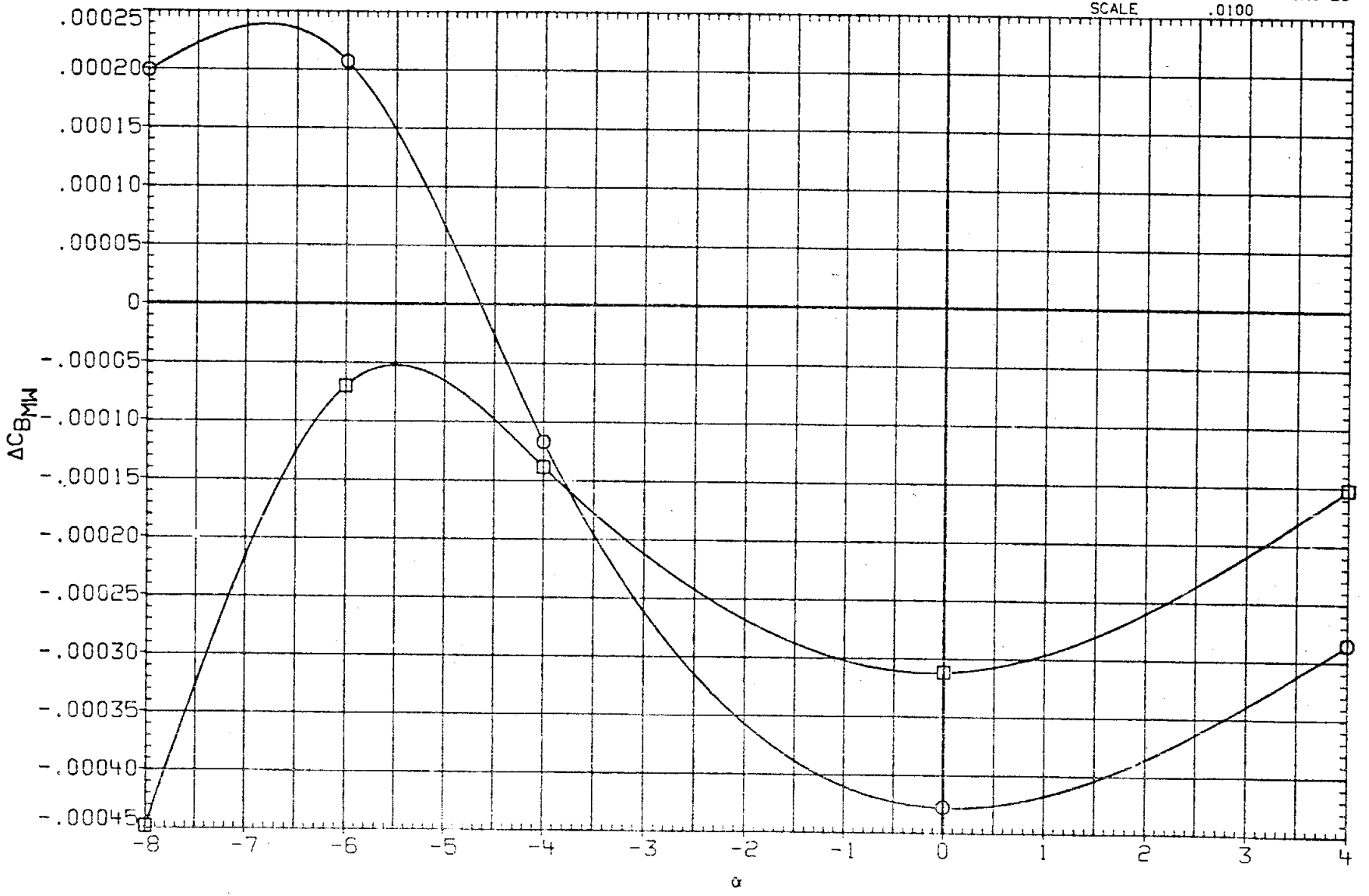

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(B)BETA = .00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

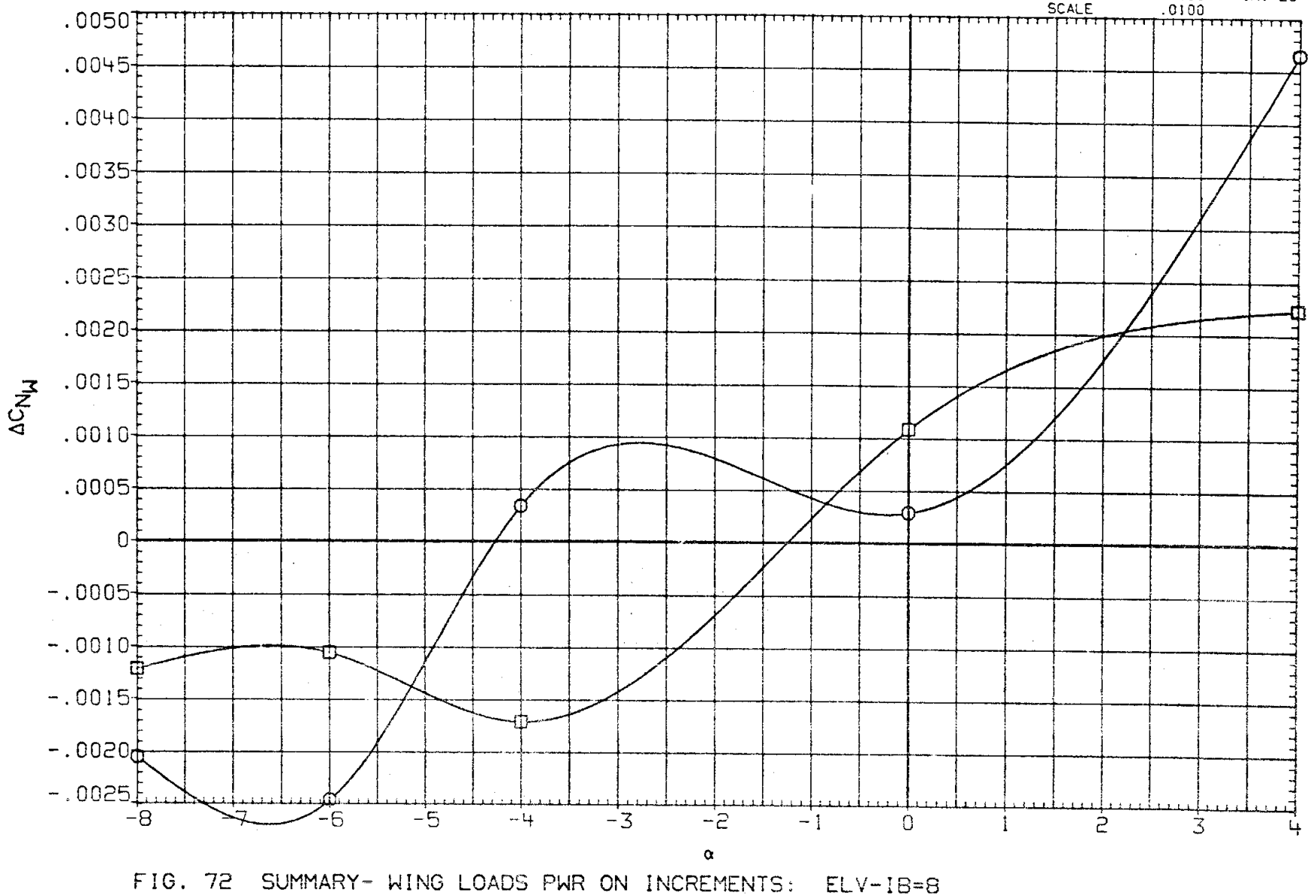

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 370

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

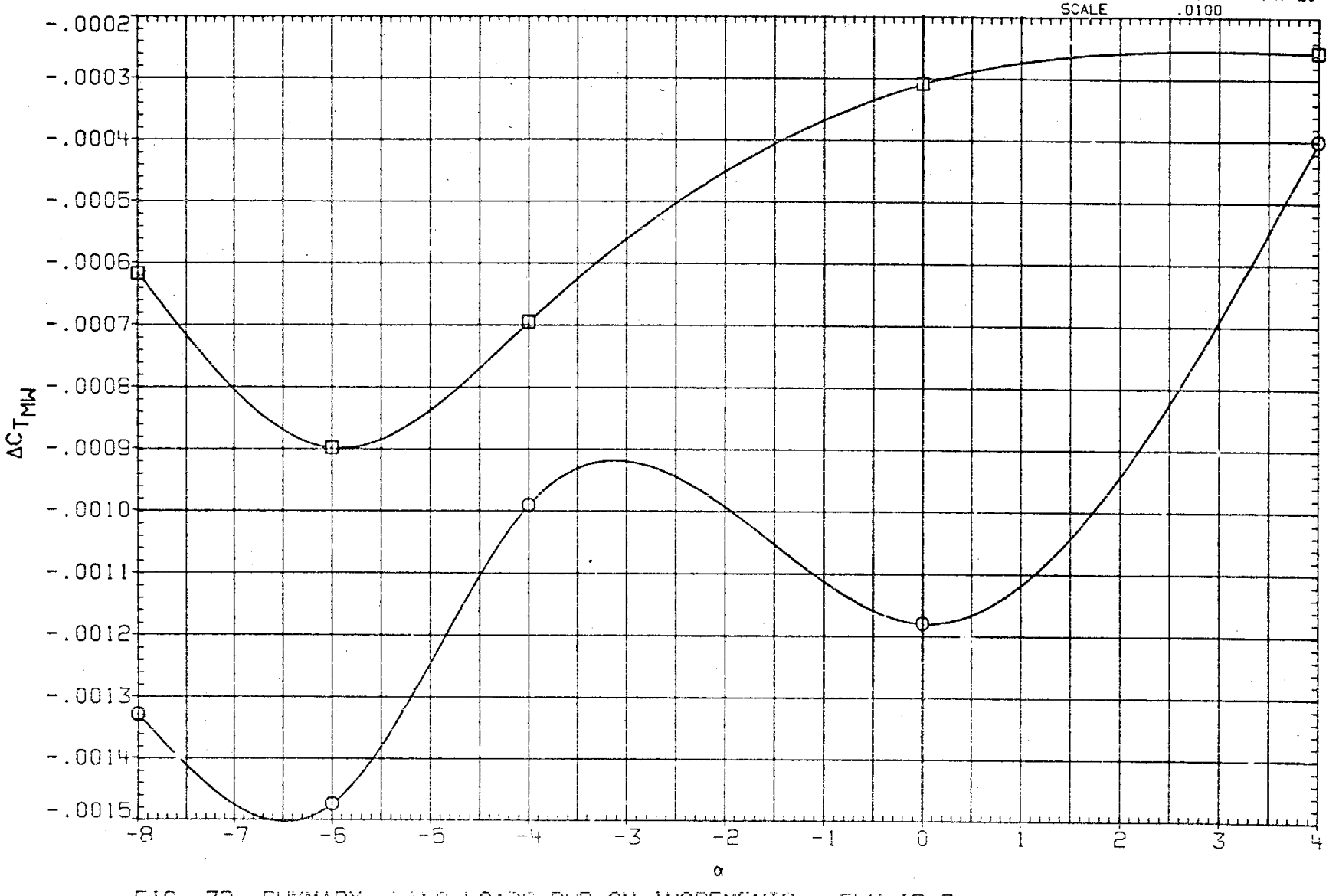

FIG. 72 SUMMARY- [illegible] LOADS PWR ON INCREMENTS: ELV-IB=8

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 371

DATA SET SYMBOL		CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

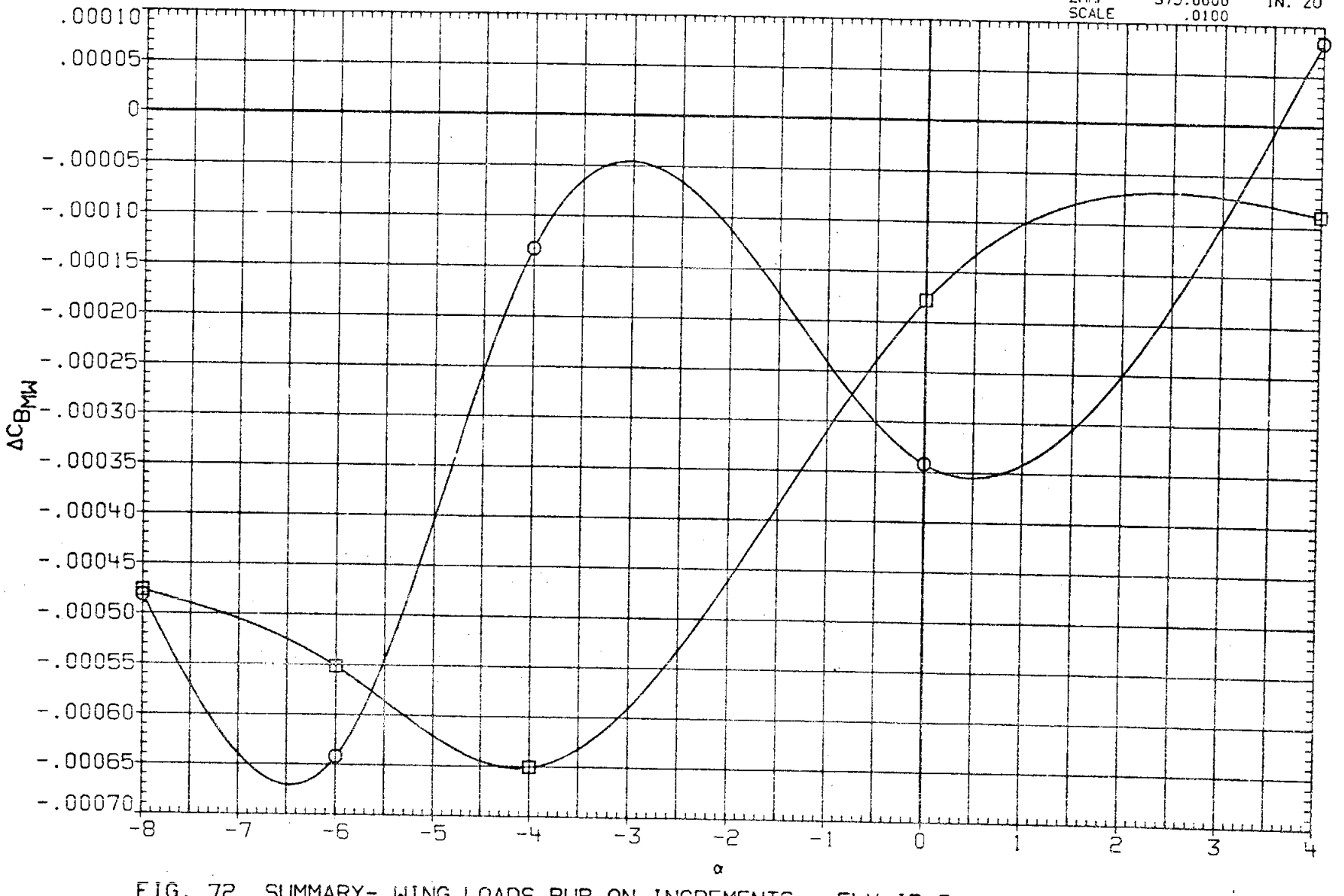

FIG. 72 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=8

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2680.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

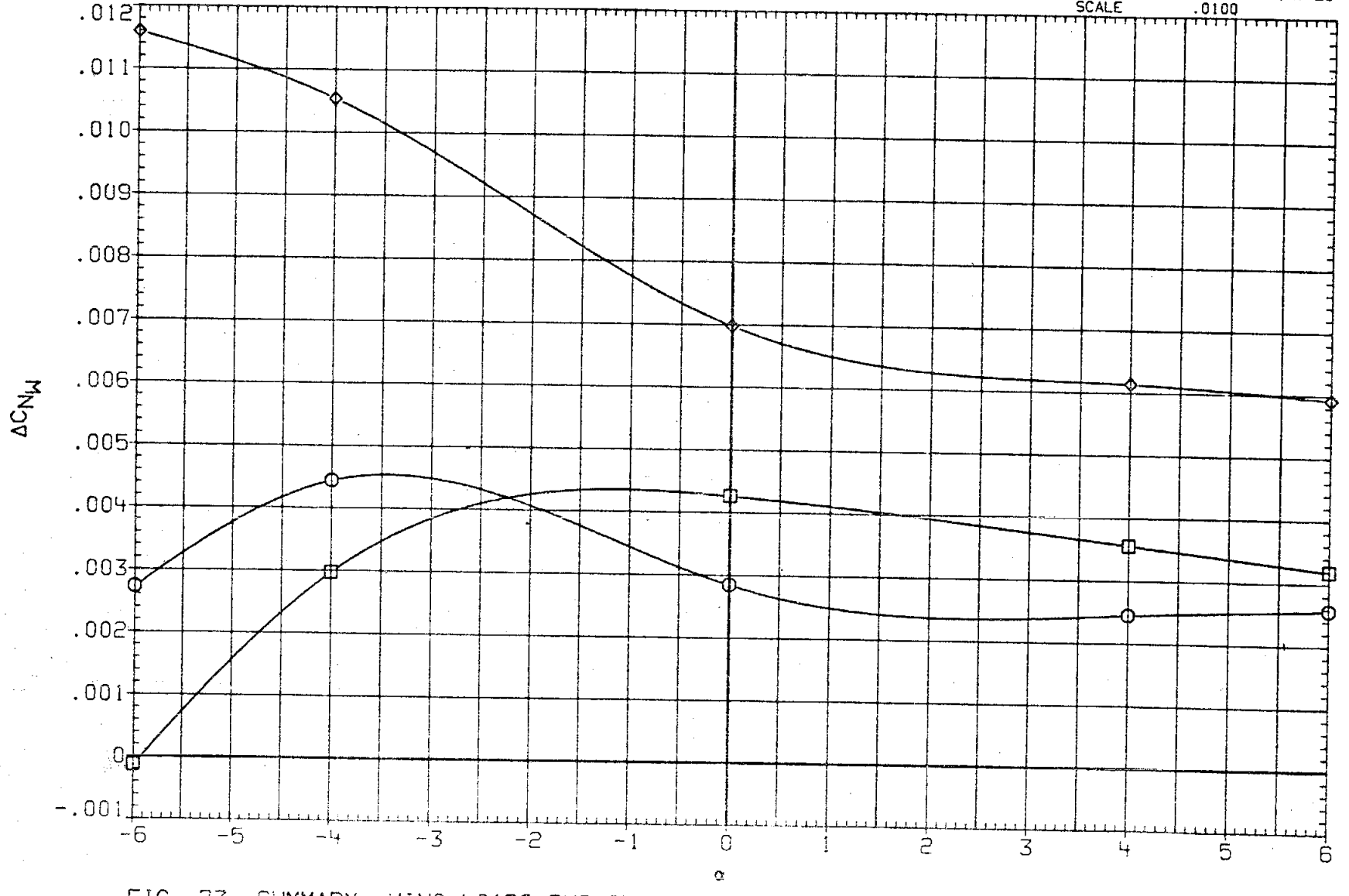

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

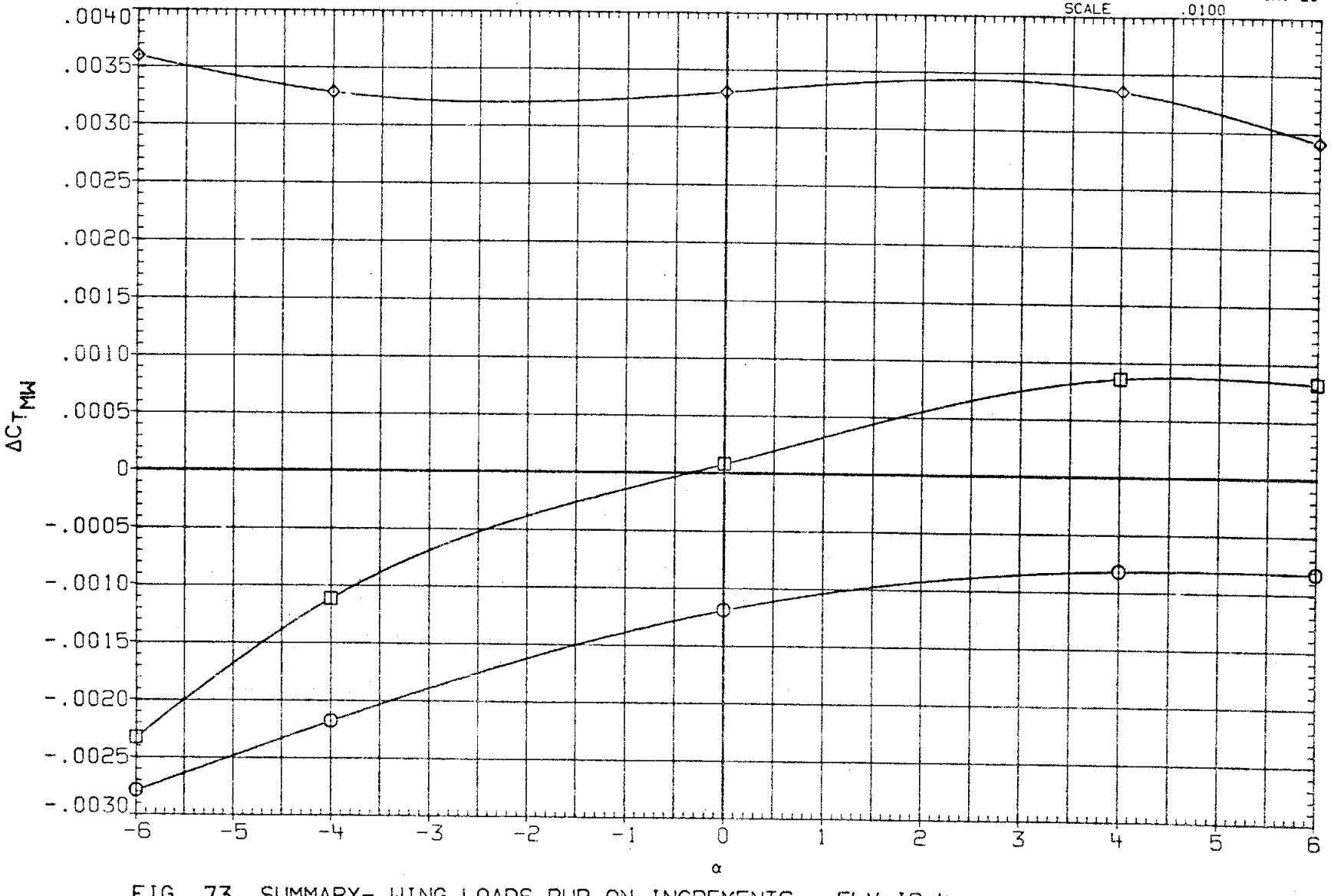

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

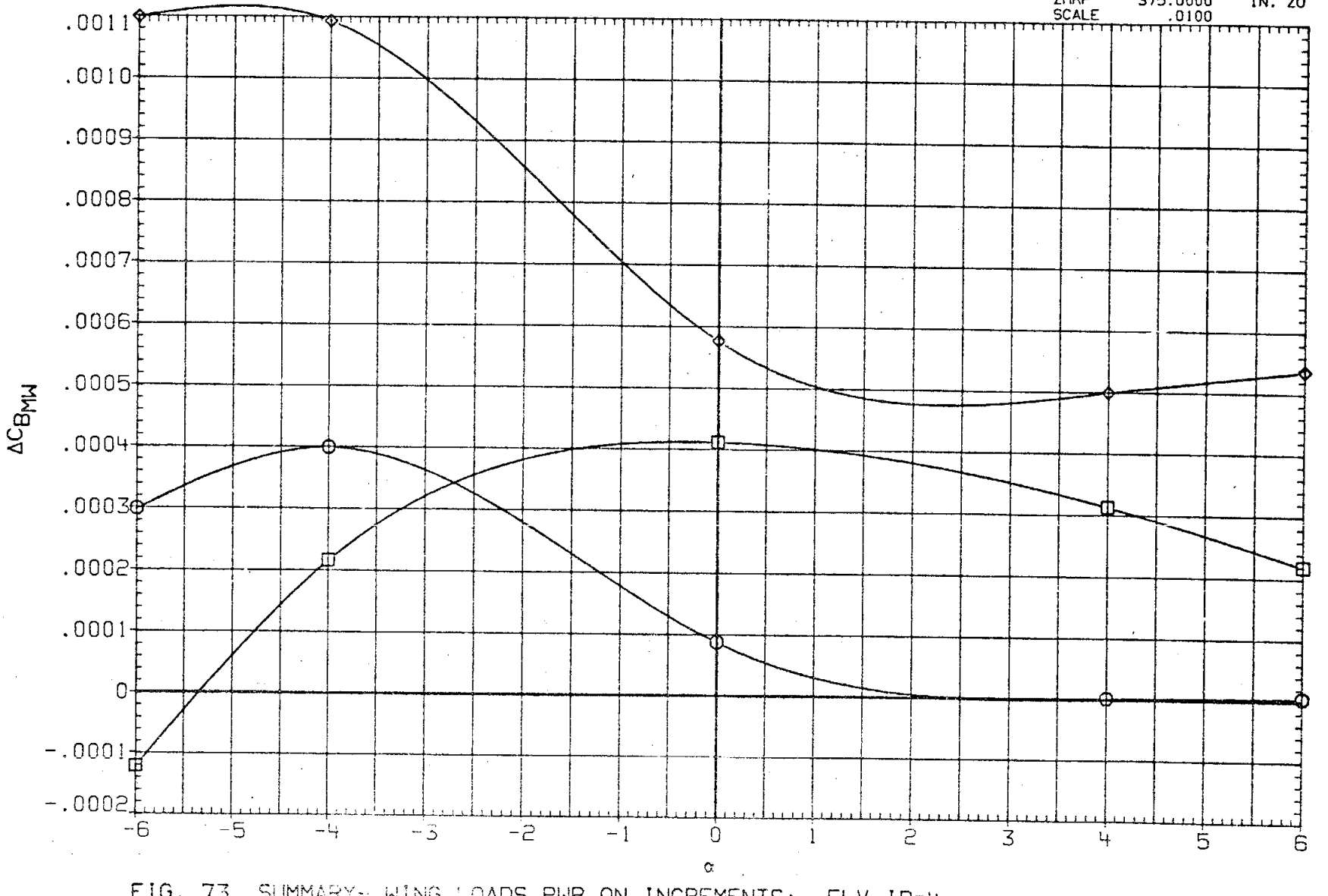

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

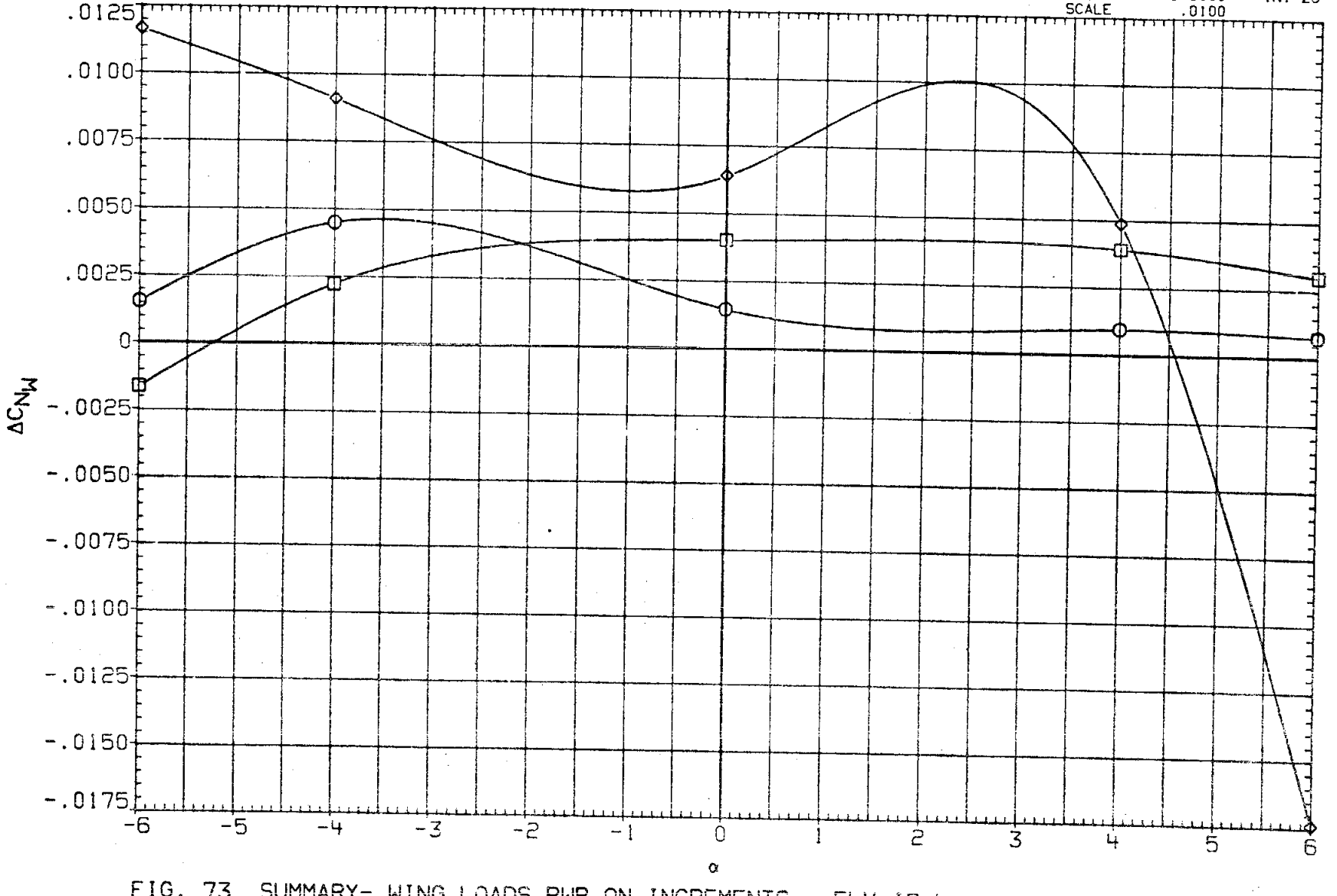

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.905	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

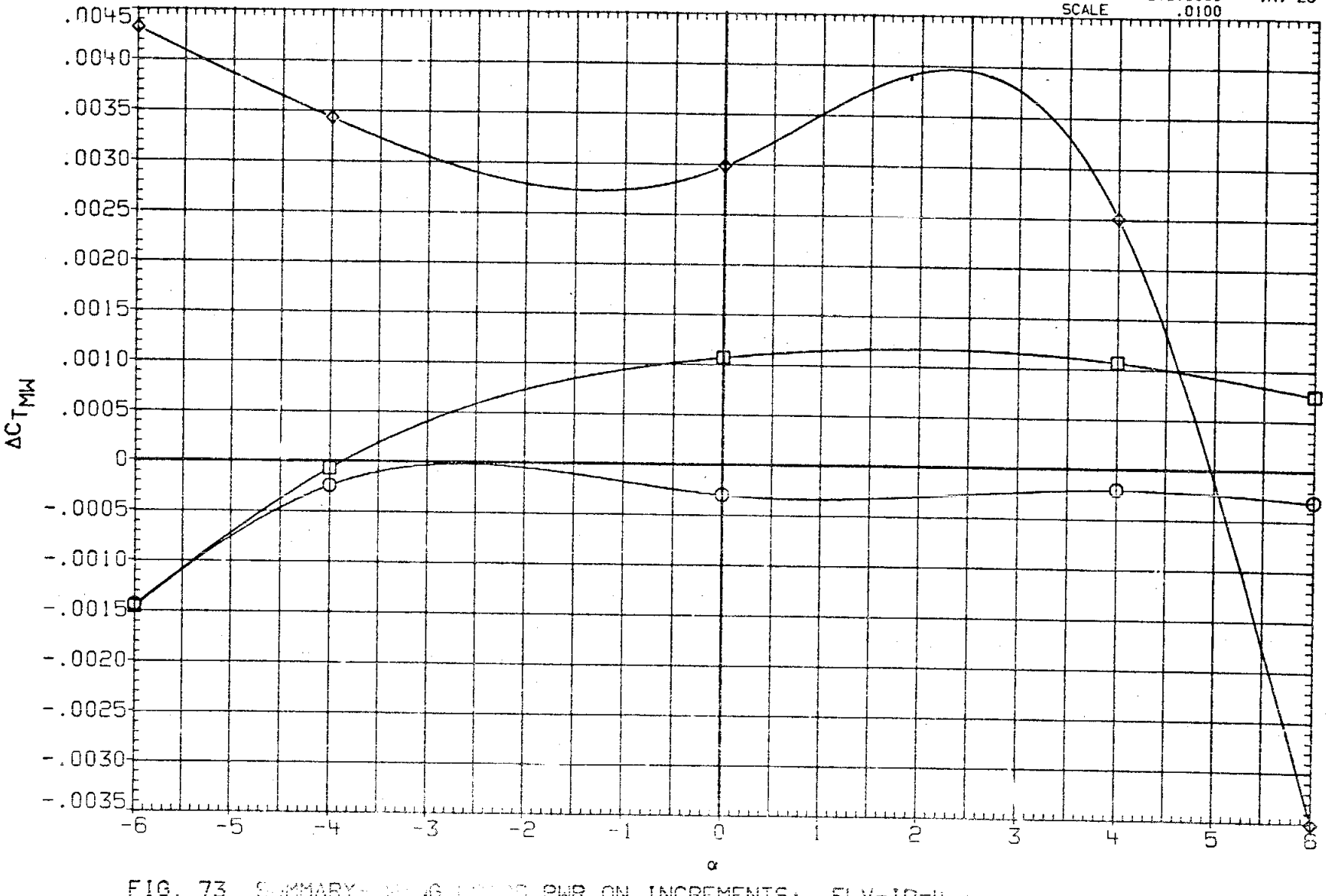

FIG. 73 SUMMARY- [illegible] PWR ON INCREMENTS: ELV-1B=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

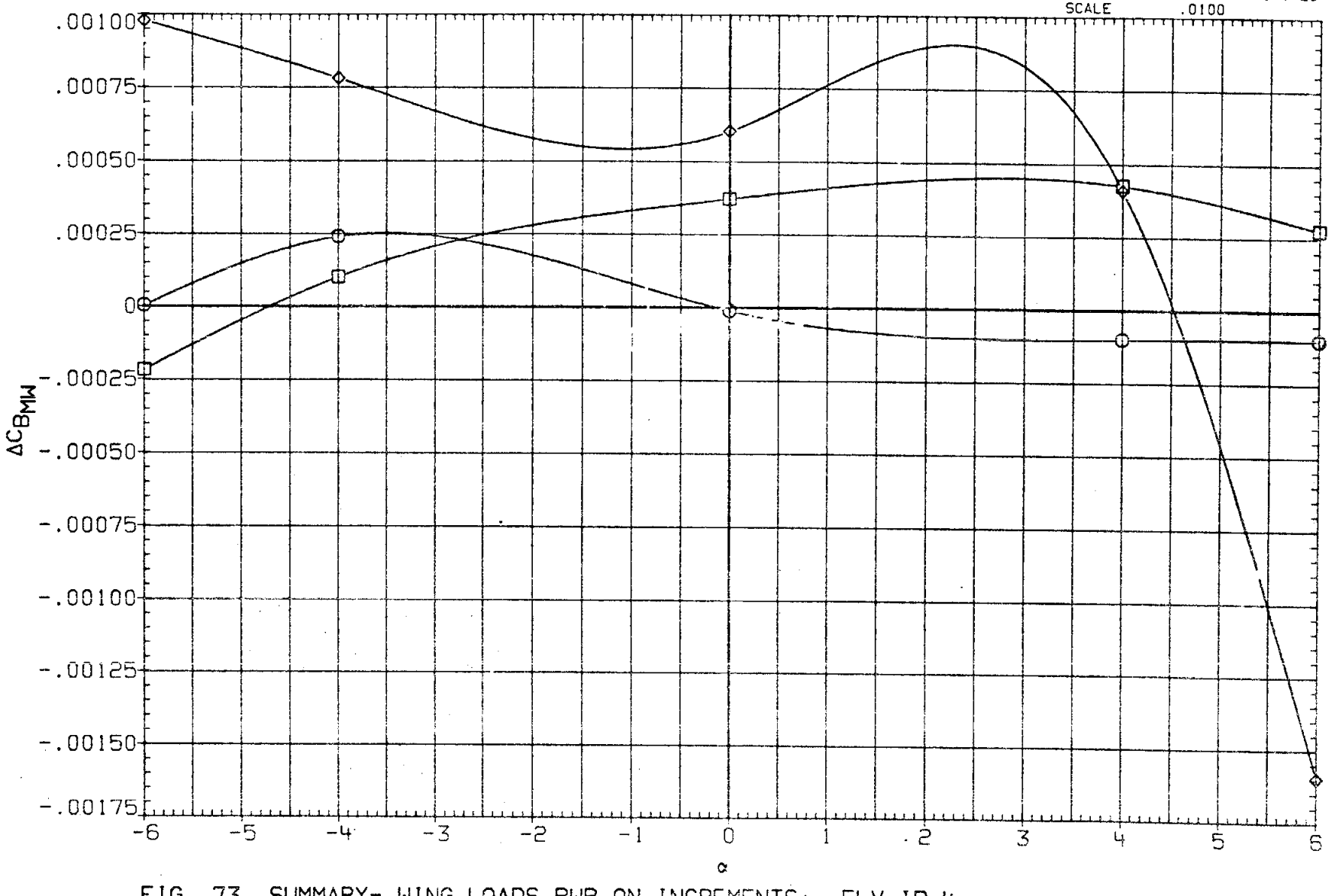

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00 DATE 17 OCT 78 PAGE 378

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

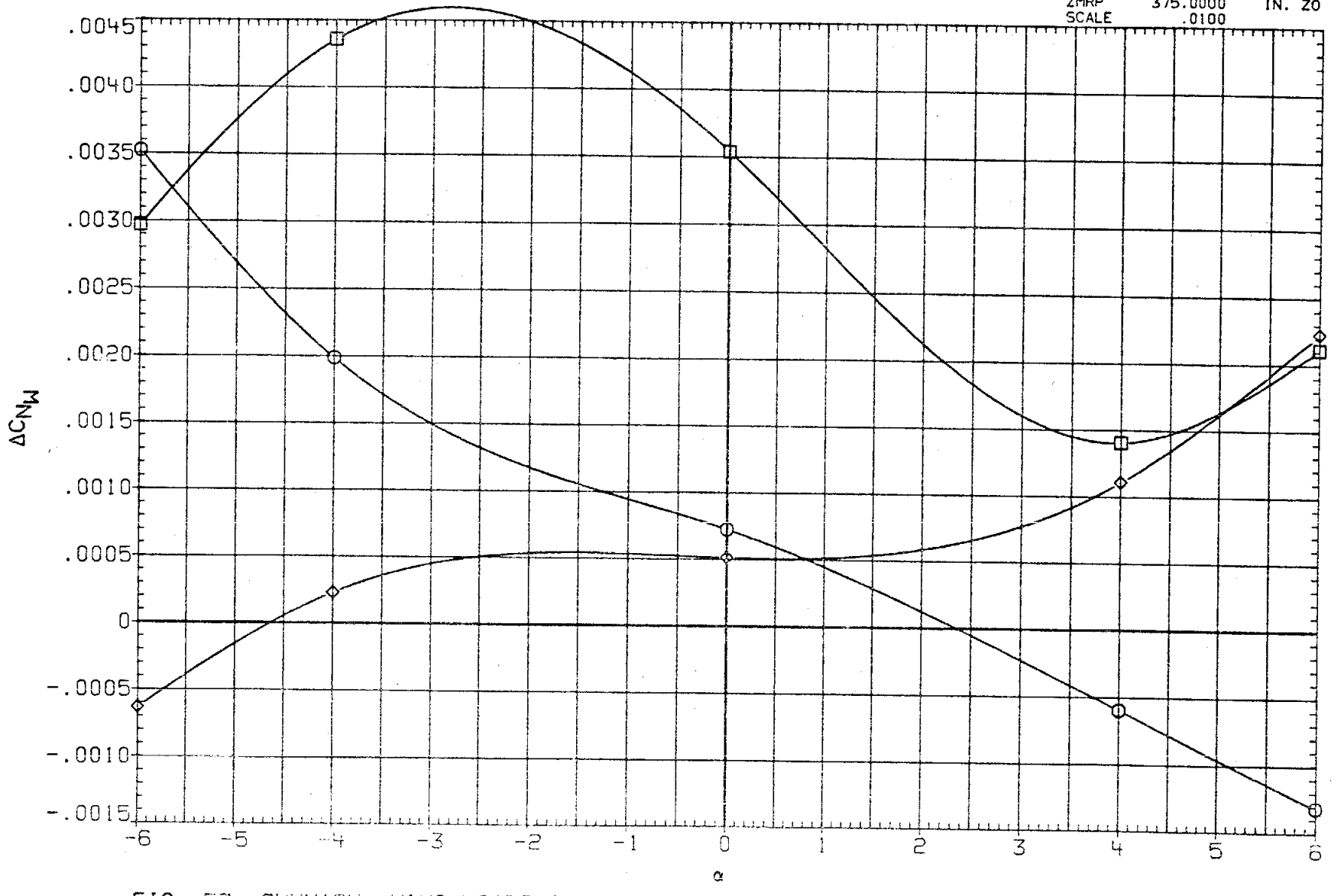

FIG. 73 SUMMARY WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

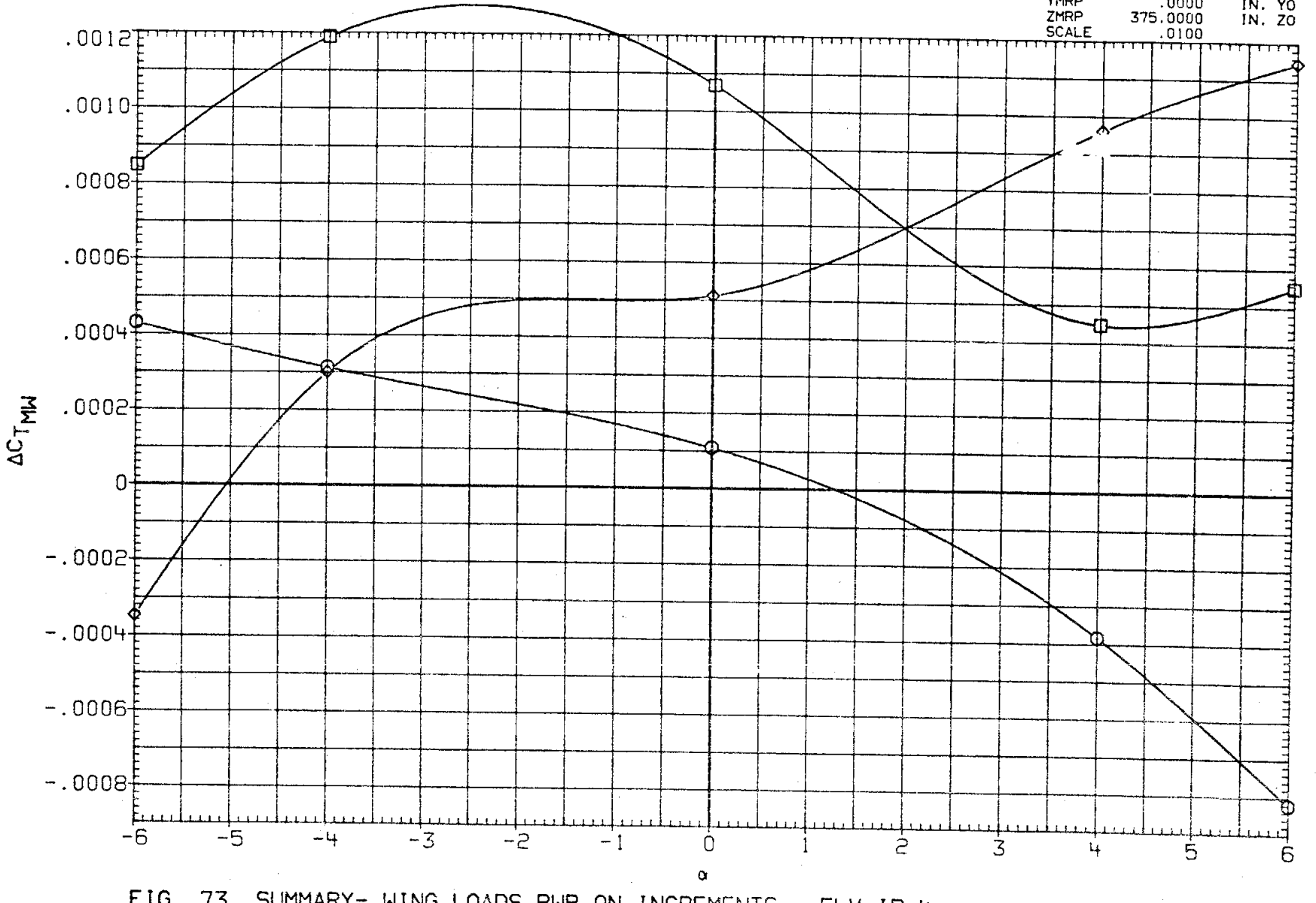

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

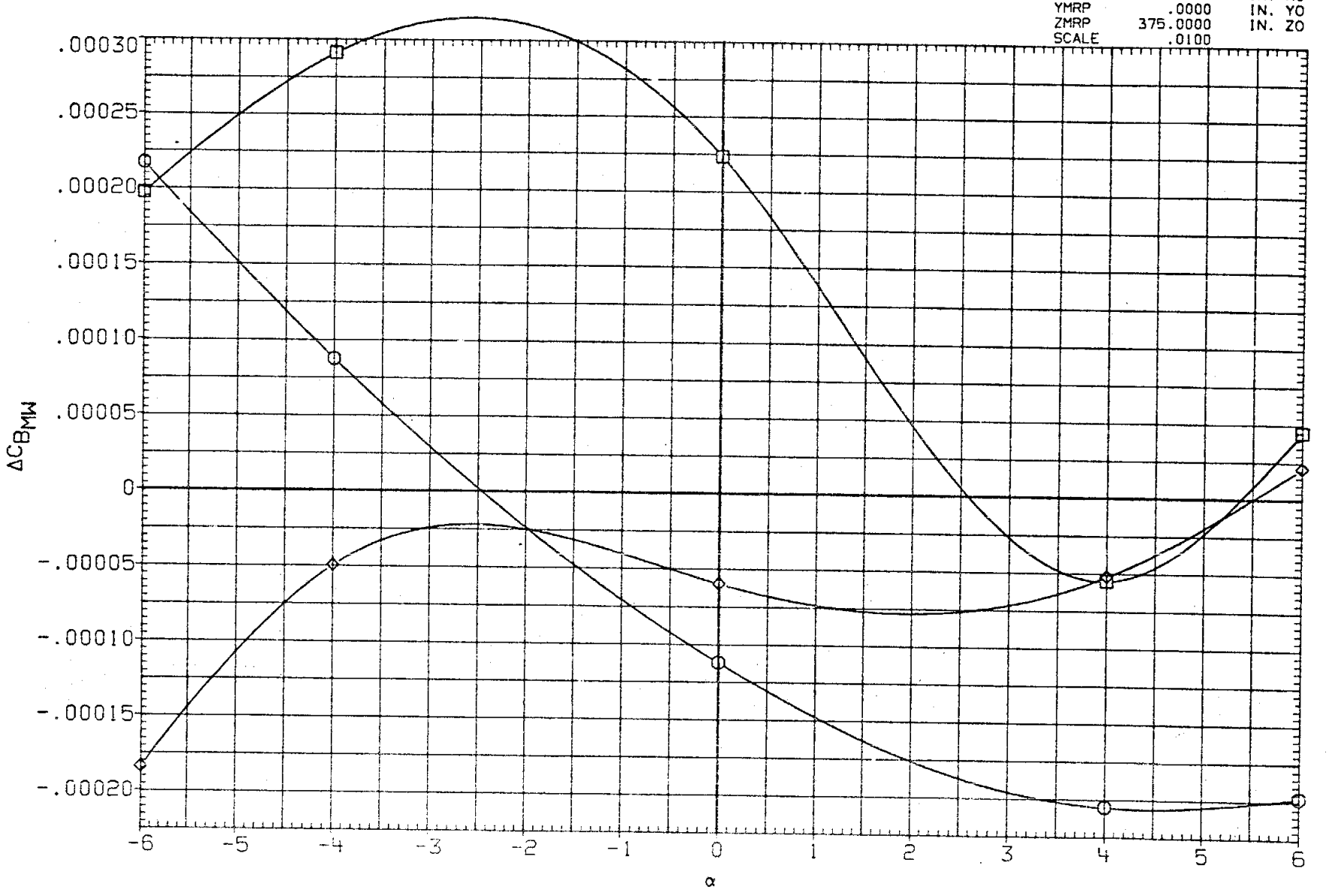

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)DELTA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

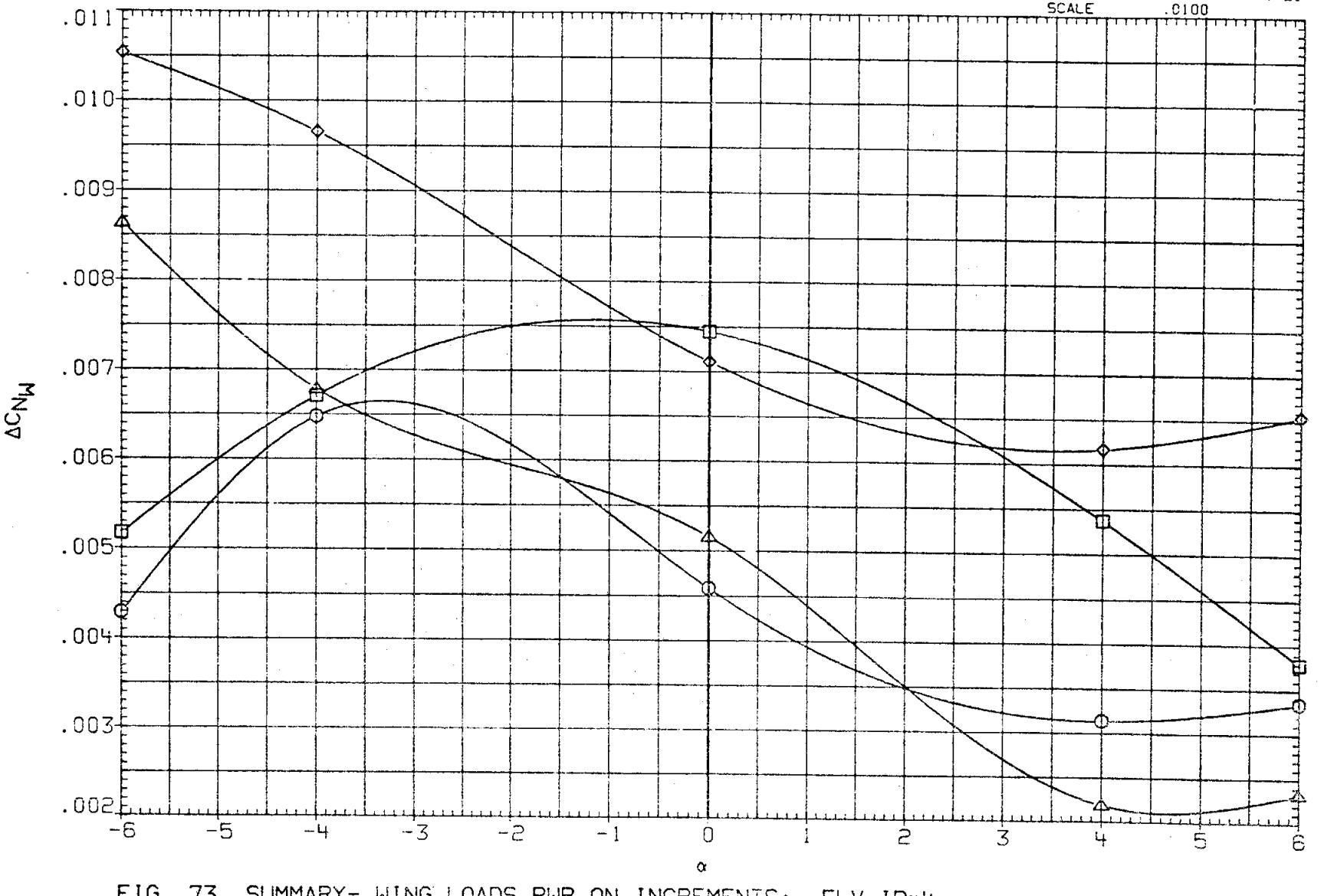

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C30051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C30052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C30053	◇	AMES 246-1-97 IA136 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C30054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

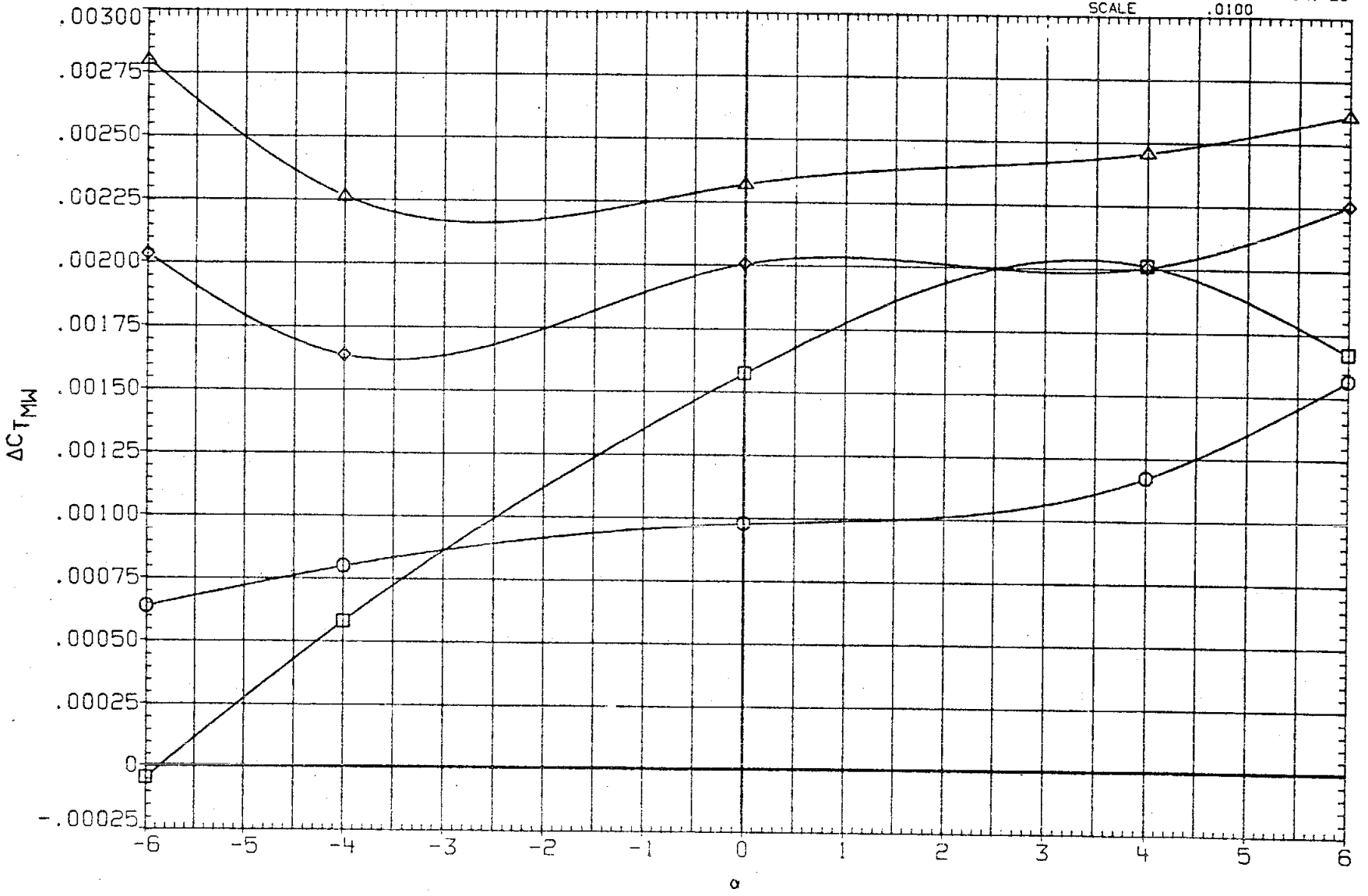

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

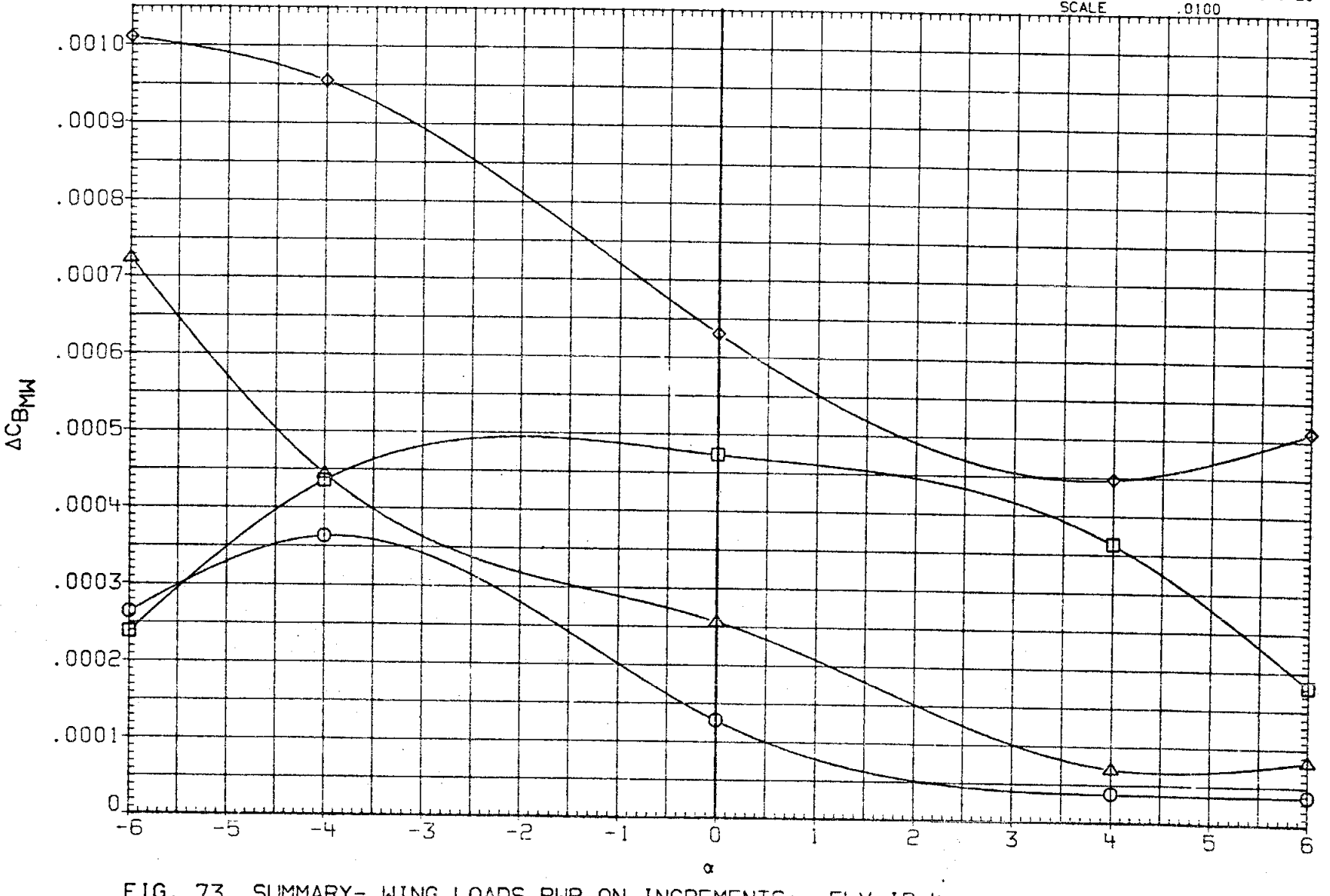

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA136 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

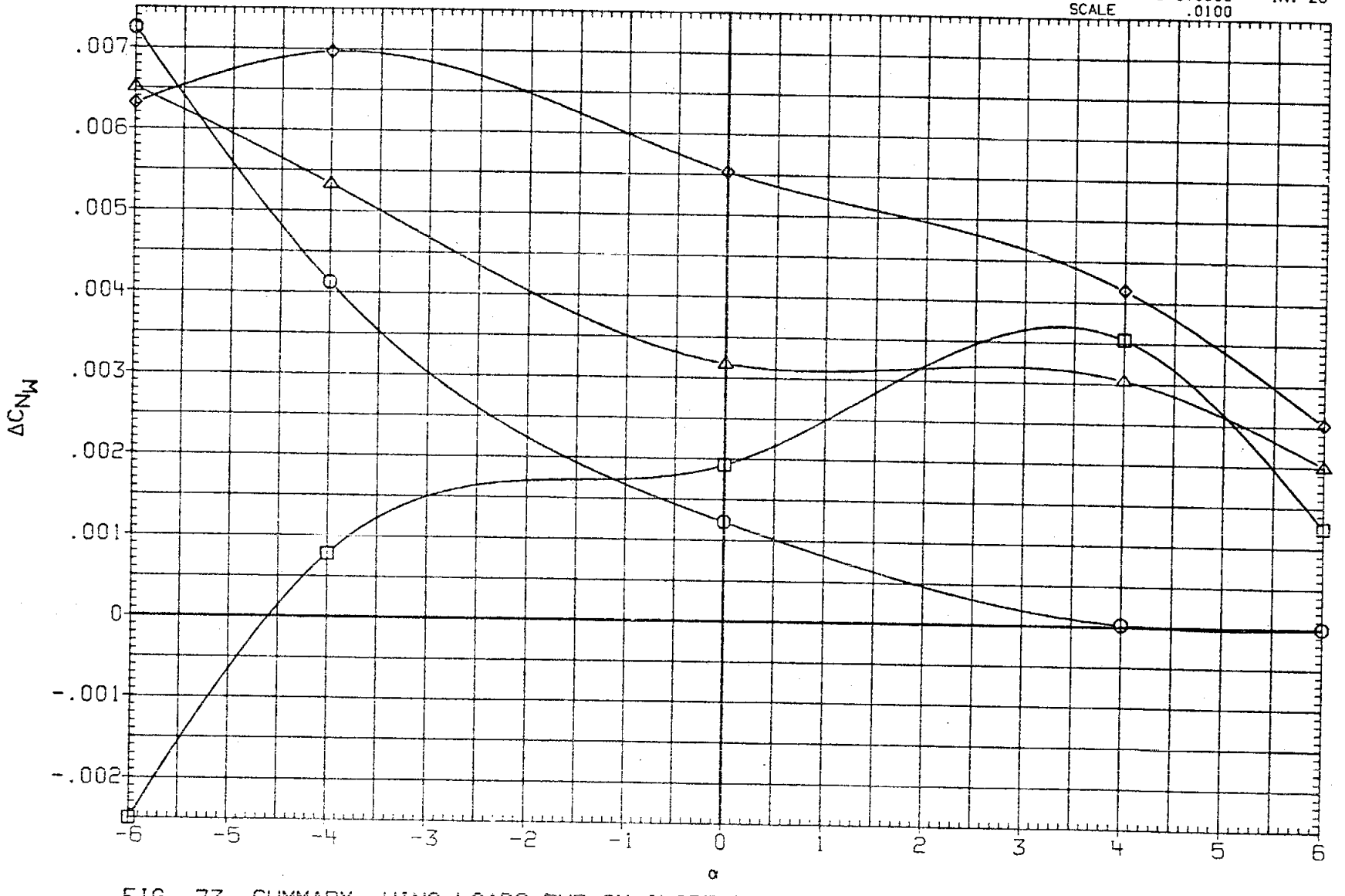

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

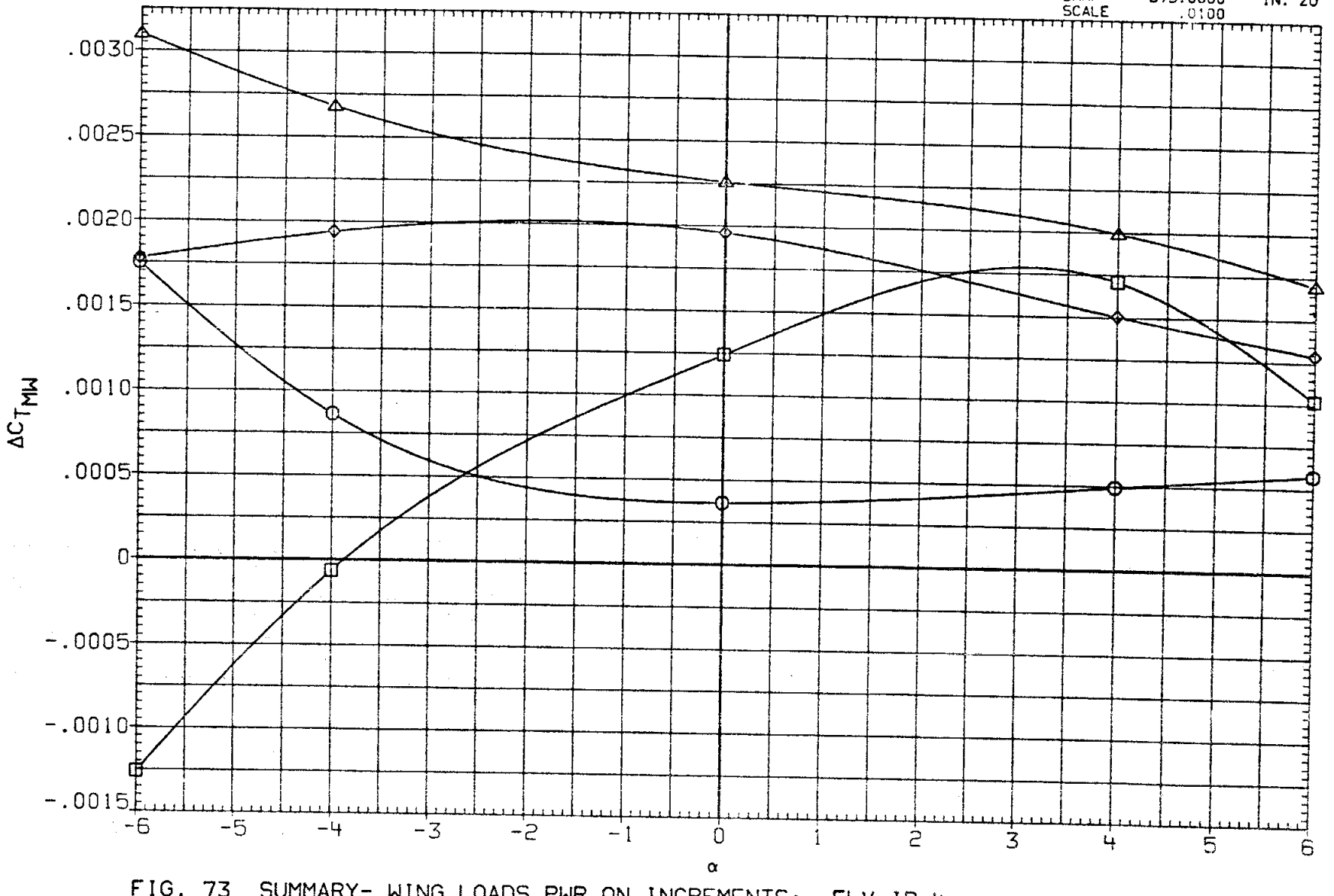

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.065
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

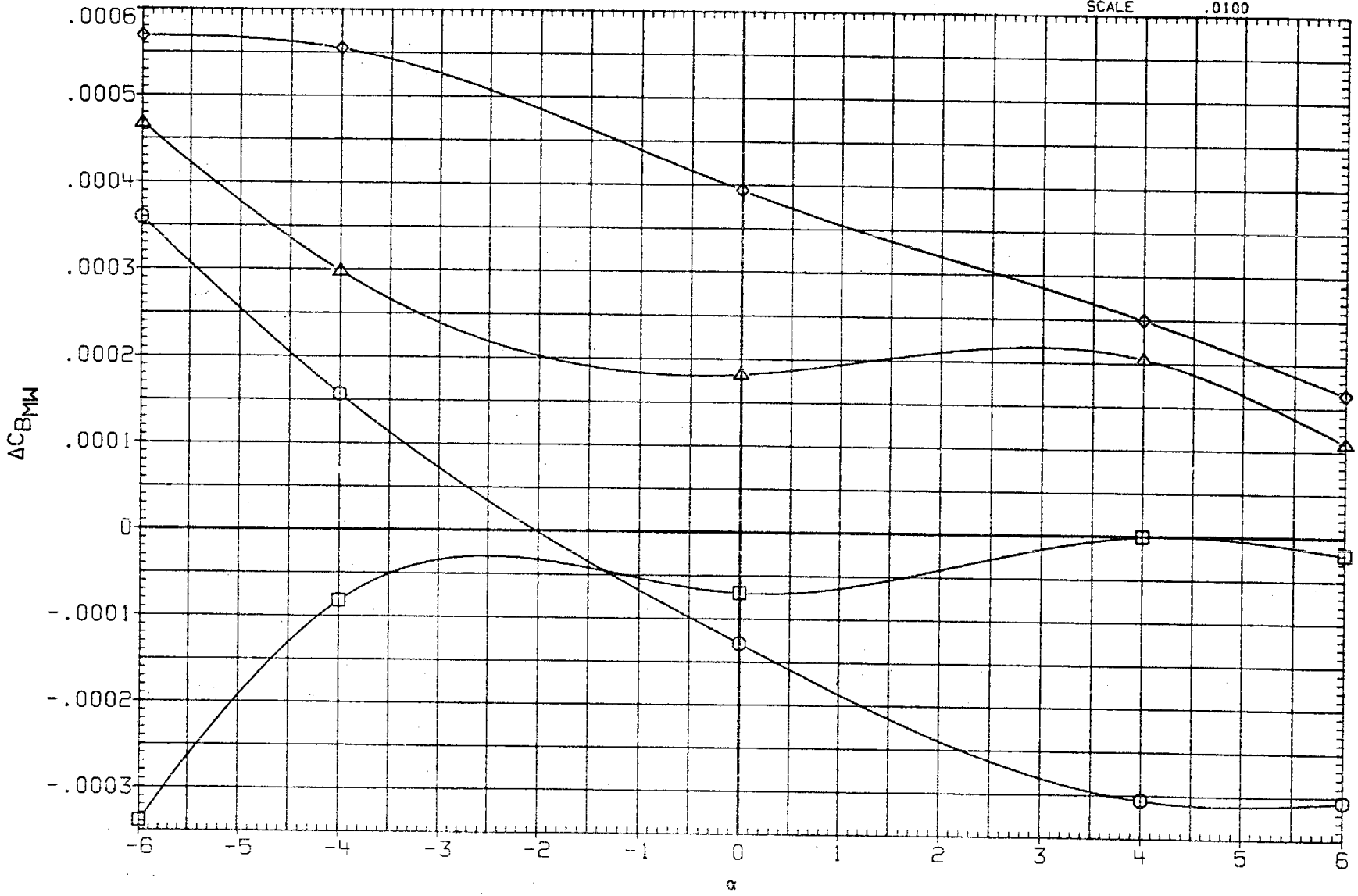

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

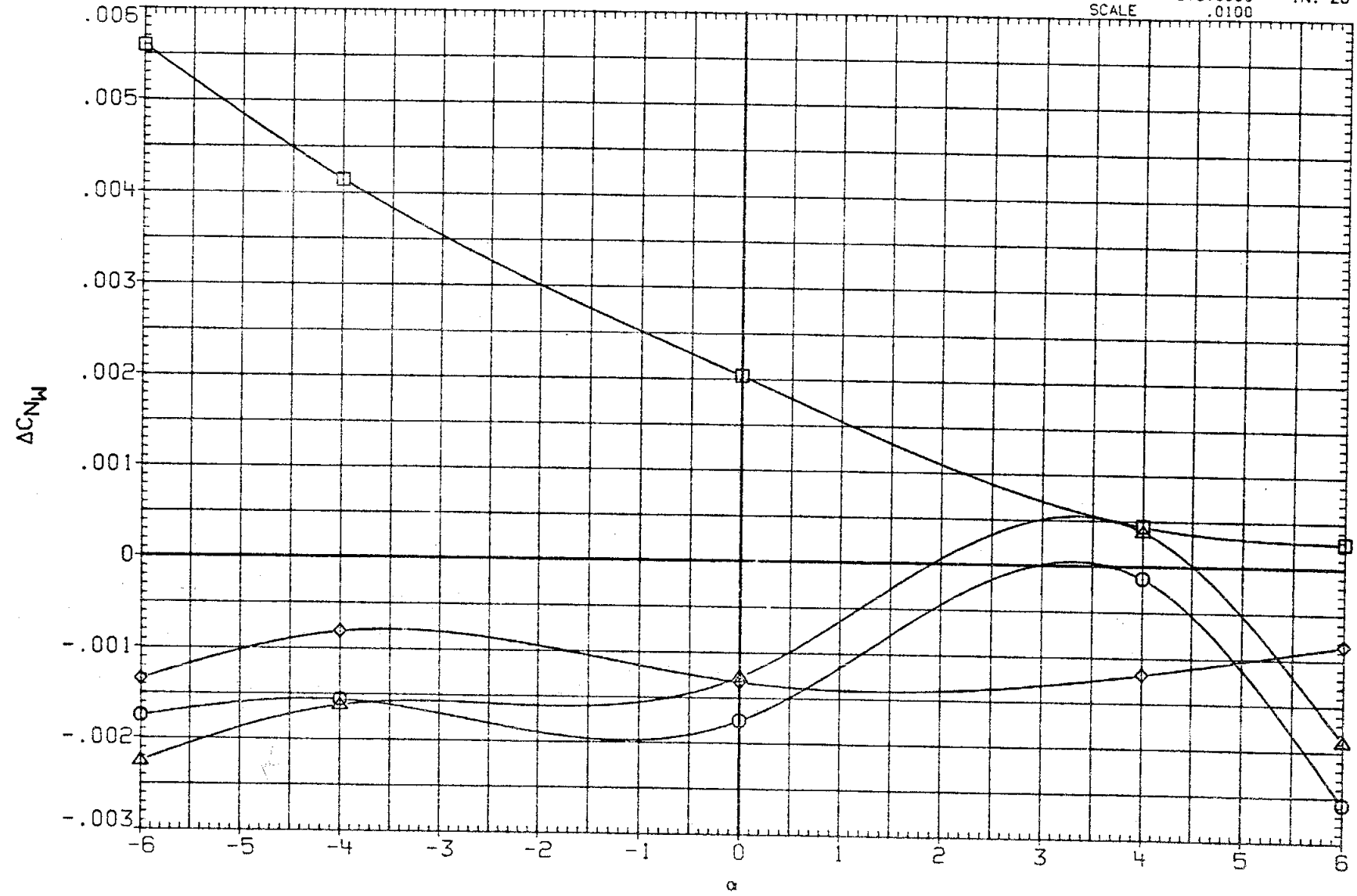

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

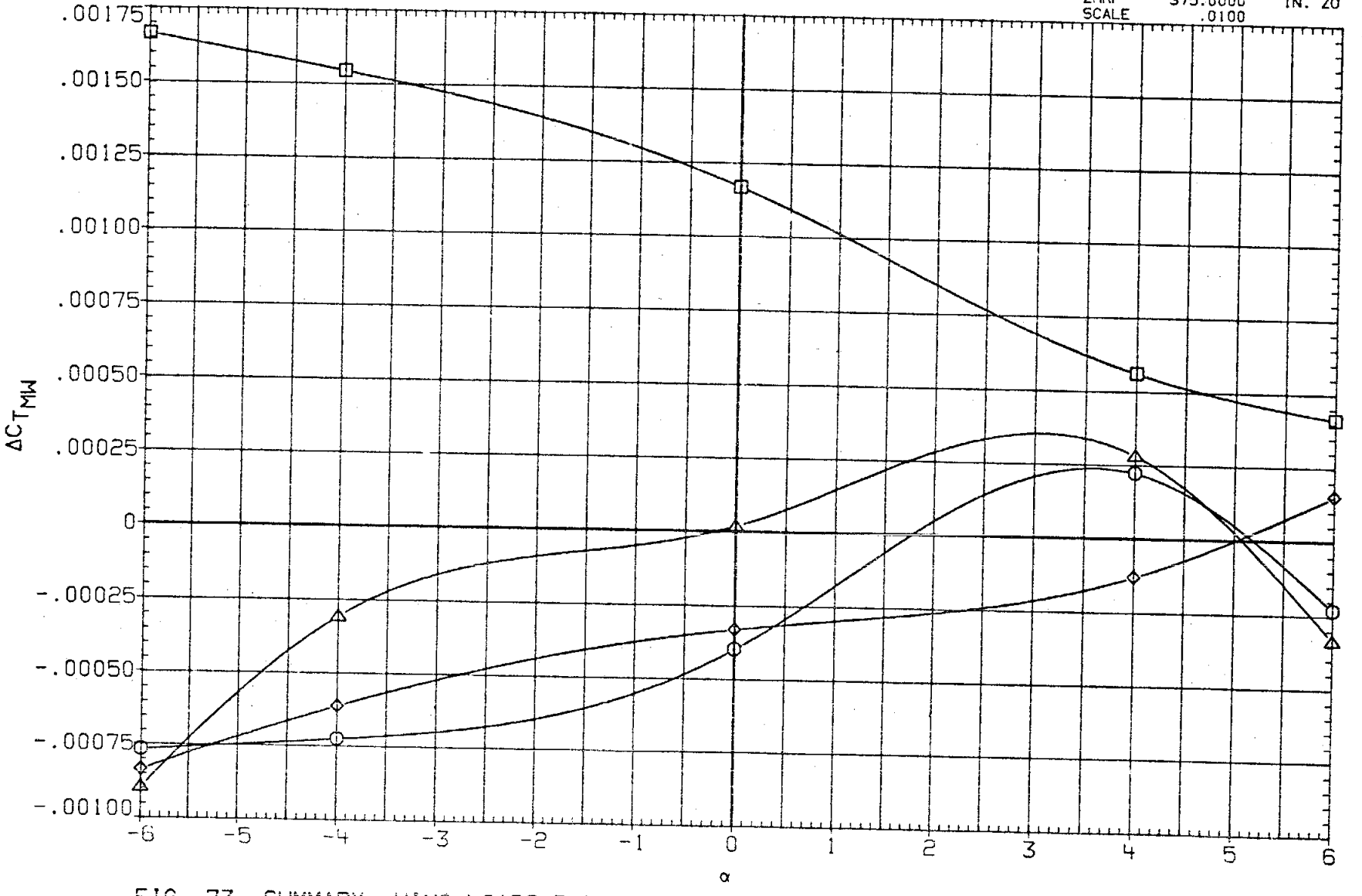

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

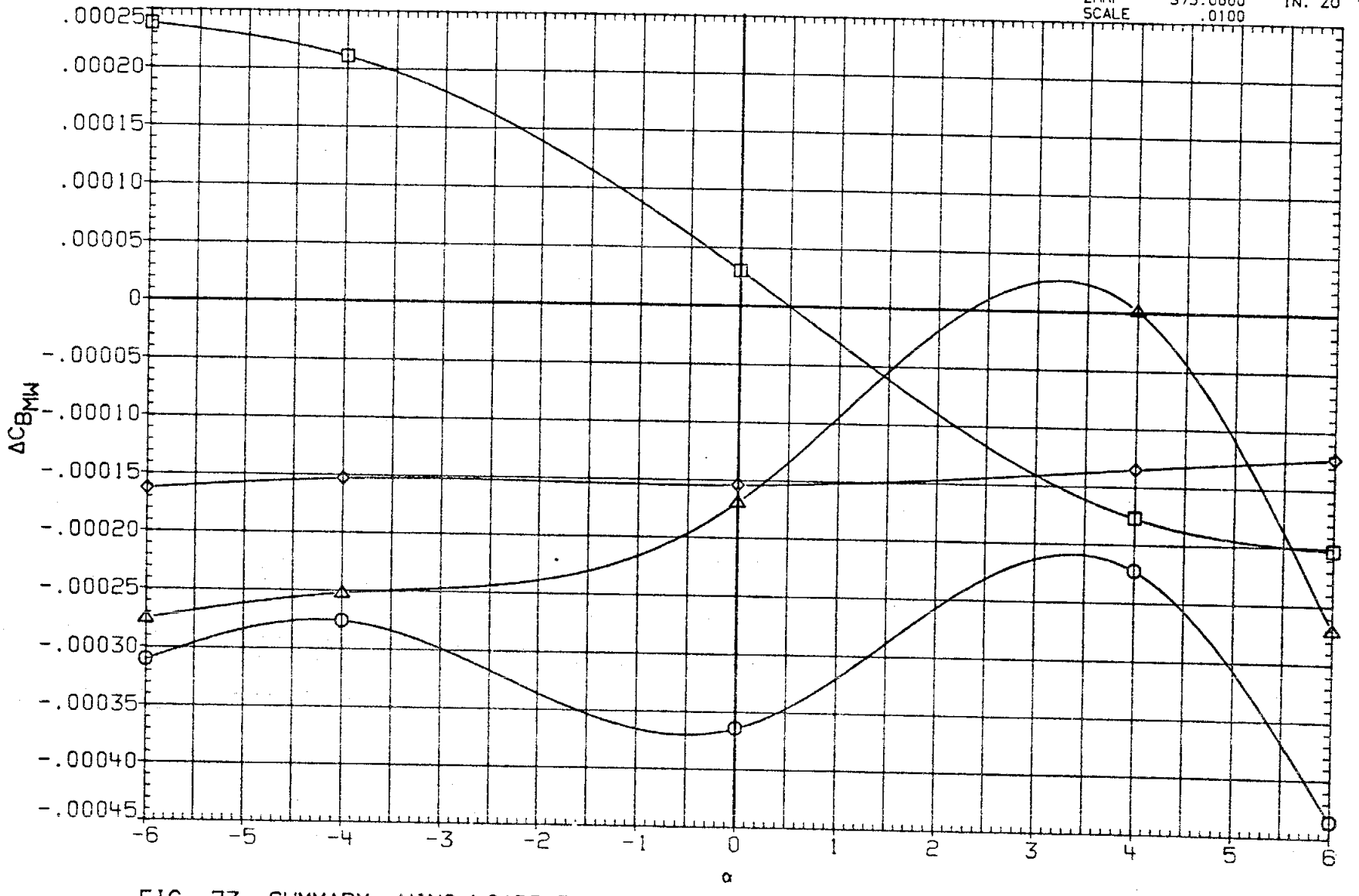

FIG. 73 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753 115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

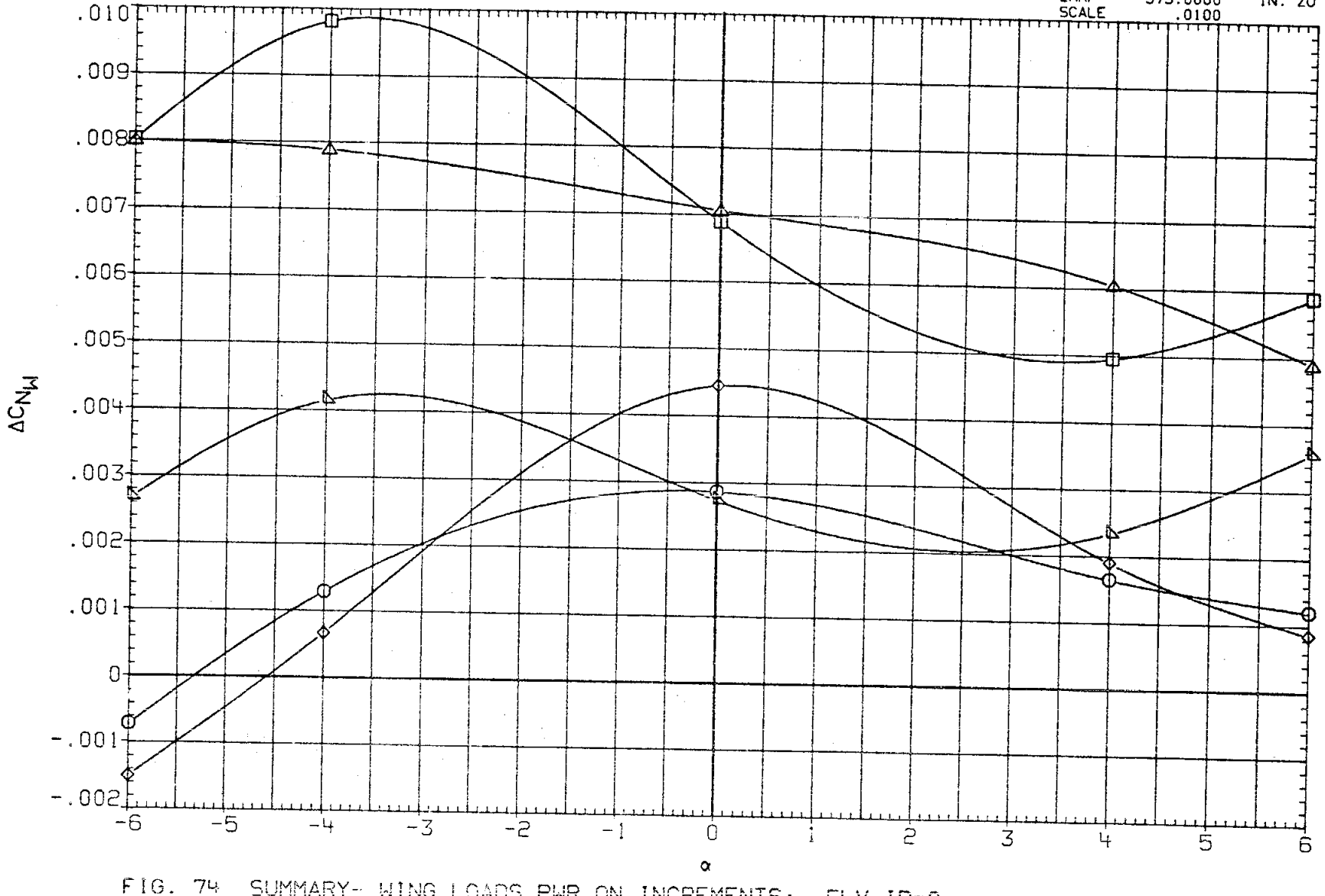

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IAI38 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IAI38 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IAI38 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IAI38 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◺	AMES 246-1-97 IAI38 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

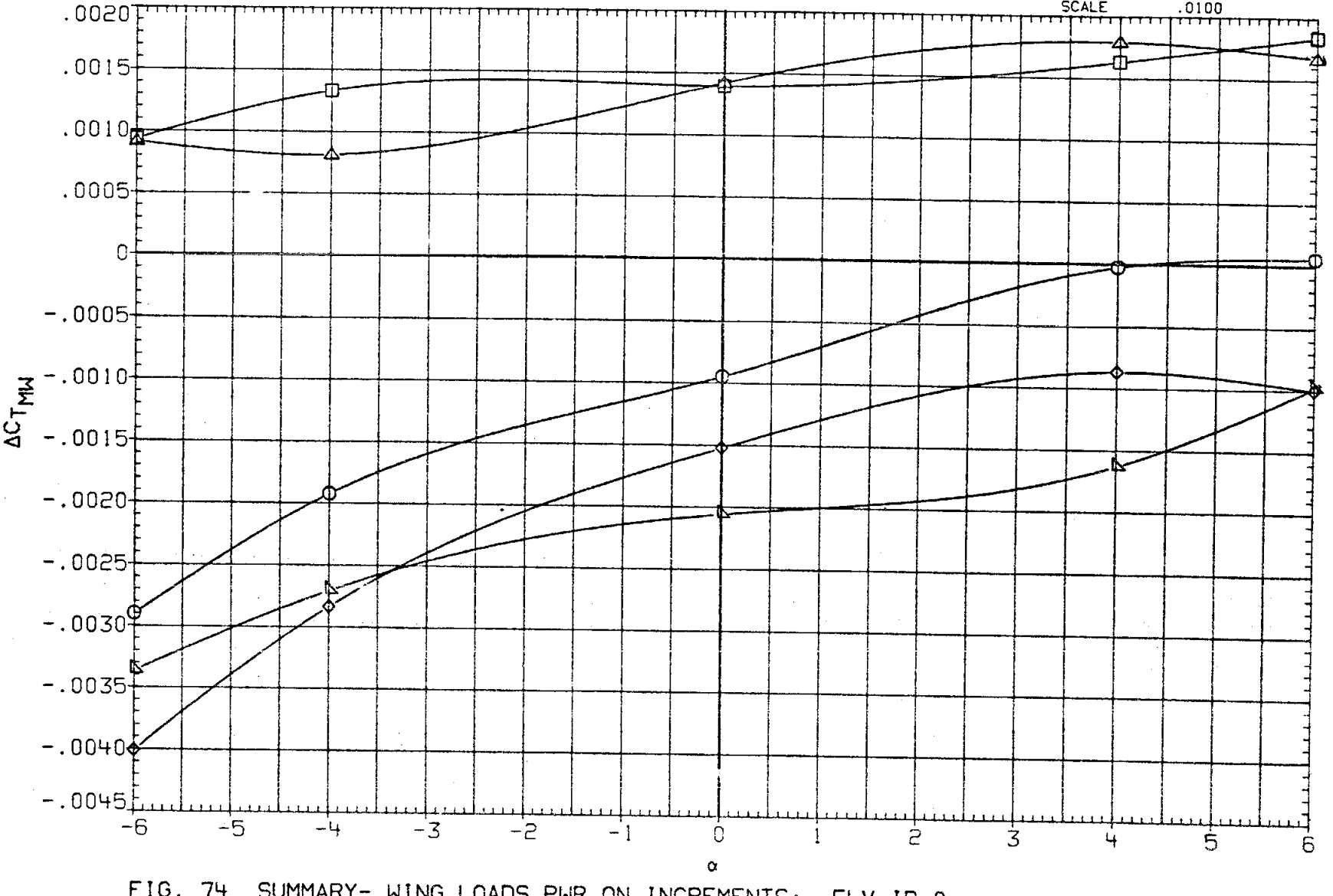

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

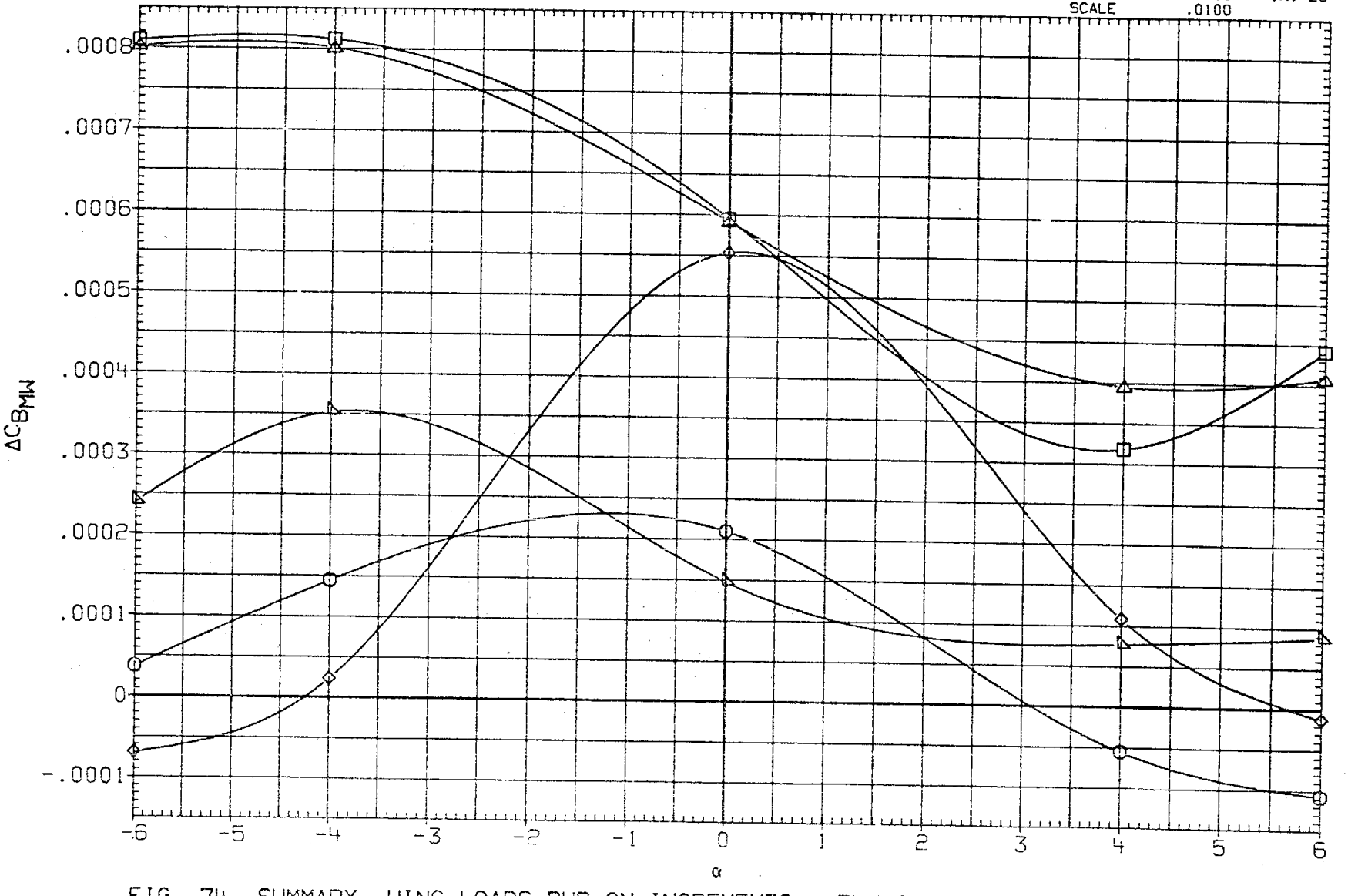

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

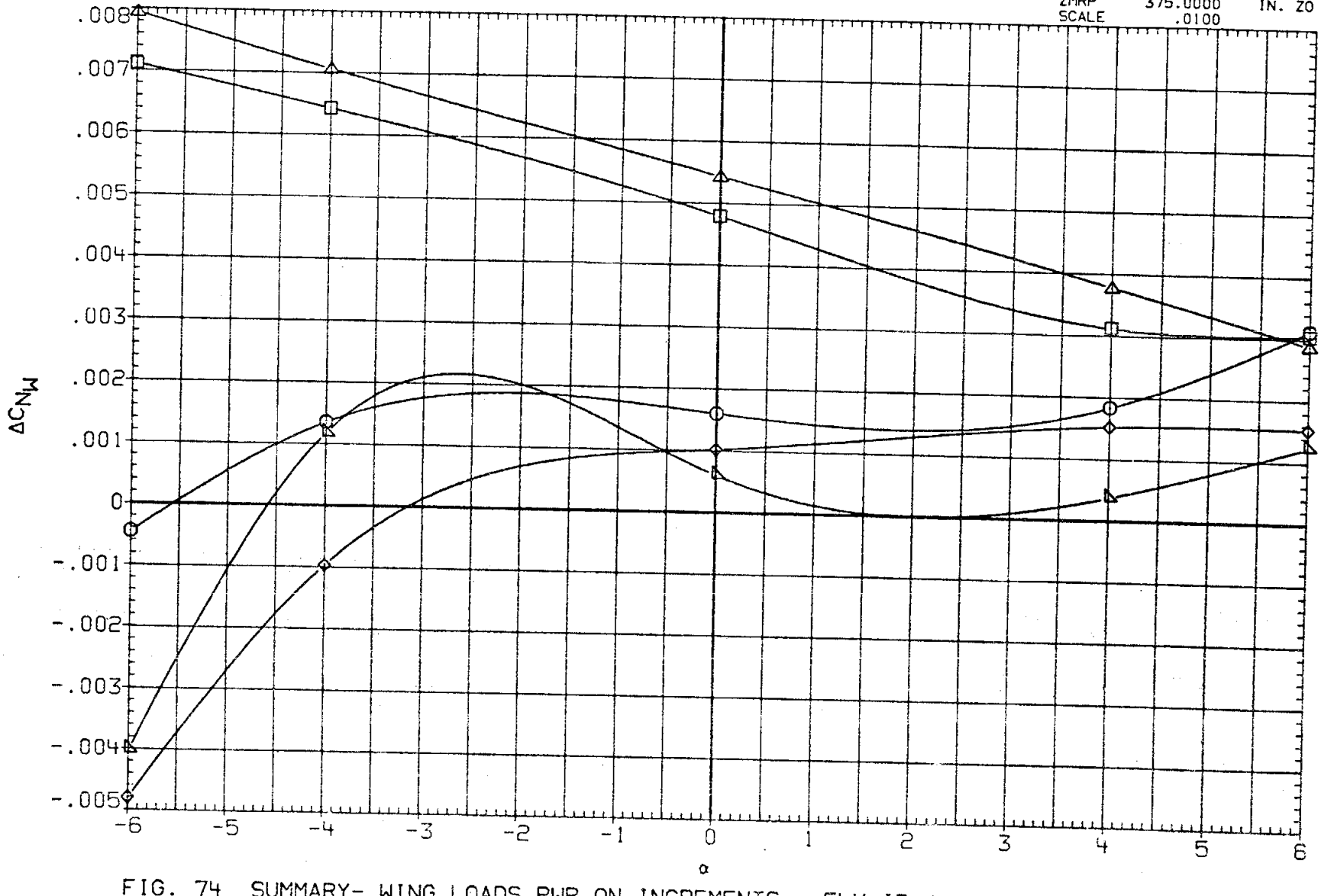

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(B)BETA = .00

DATE 17 OCT 78

DATA SET SYMBOL		CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

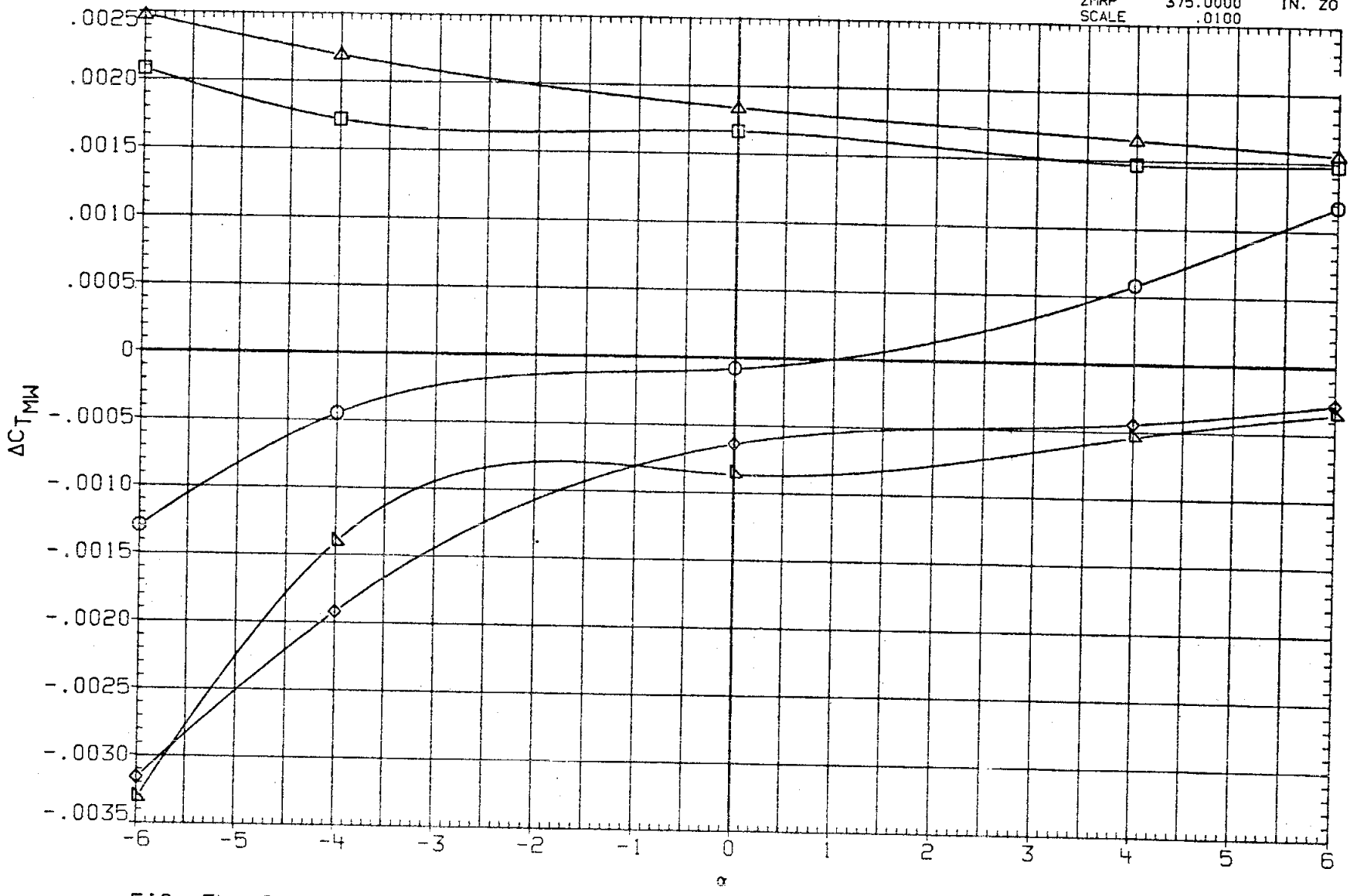

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

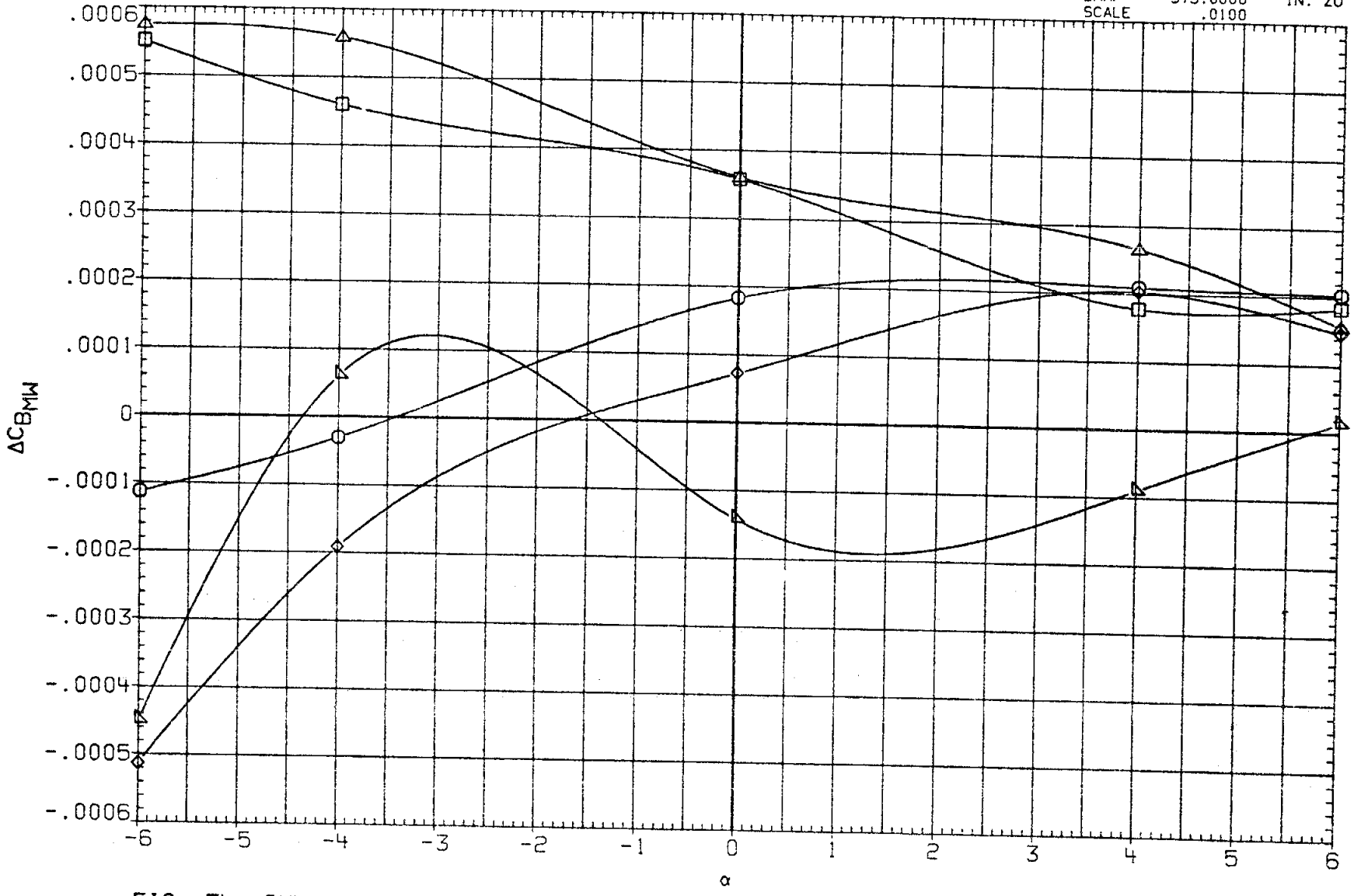

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

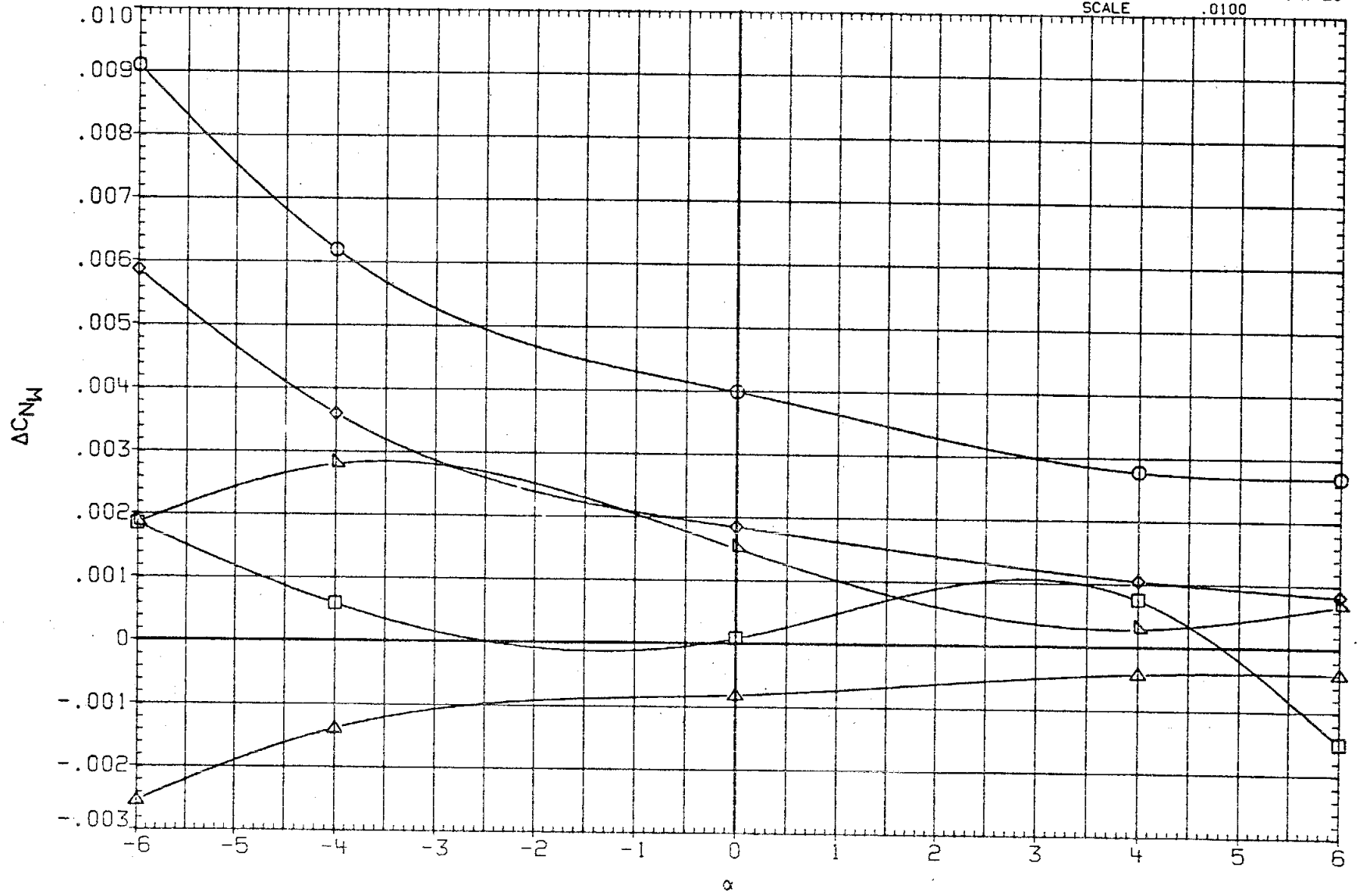

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

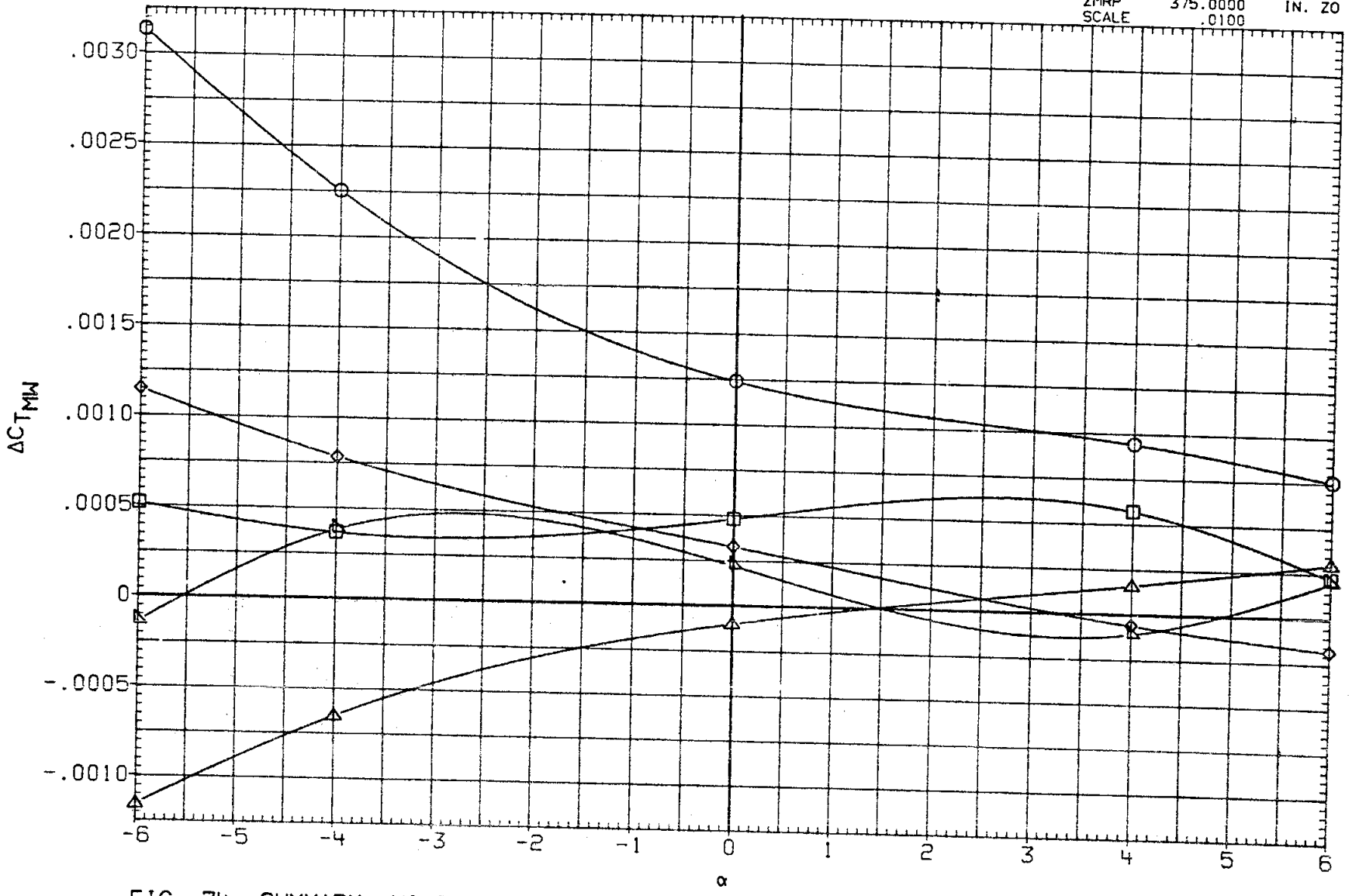

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)

ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
.000	-2.000	2.200	460.159	740.665
.000	-2.000	2.500	751.892	1322.416
.000	-5.000	2.200	462.862	741.568
.000	-5.000	2.500	748.275	1325.283
.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

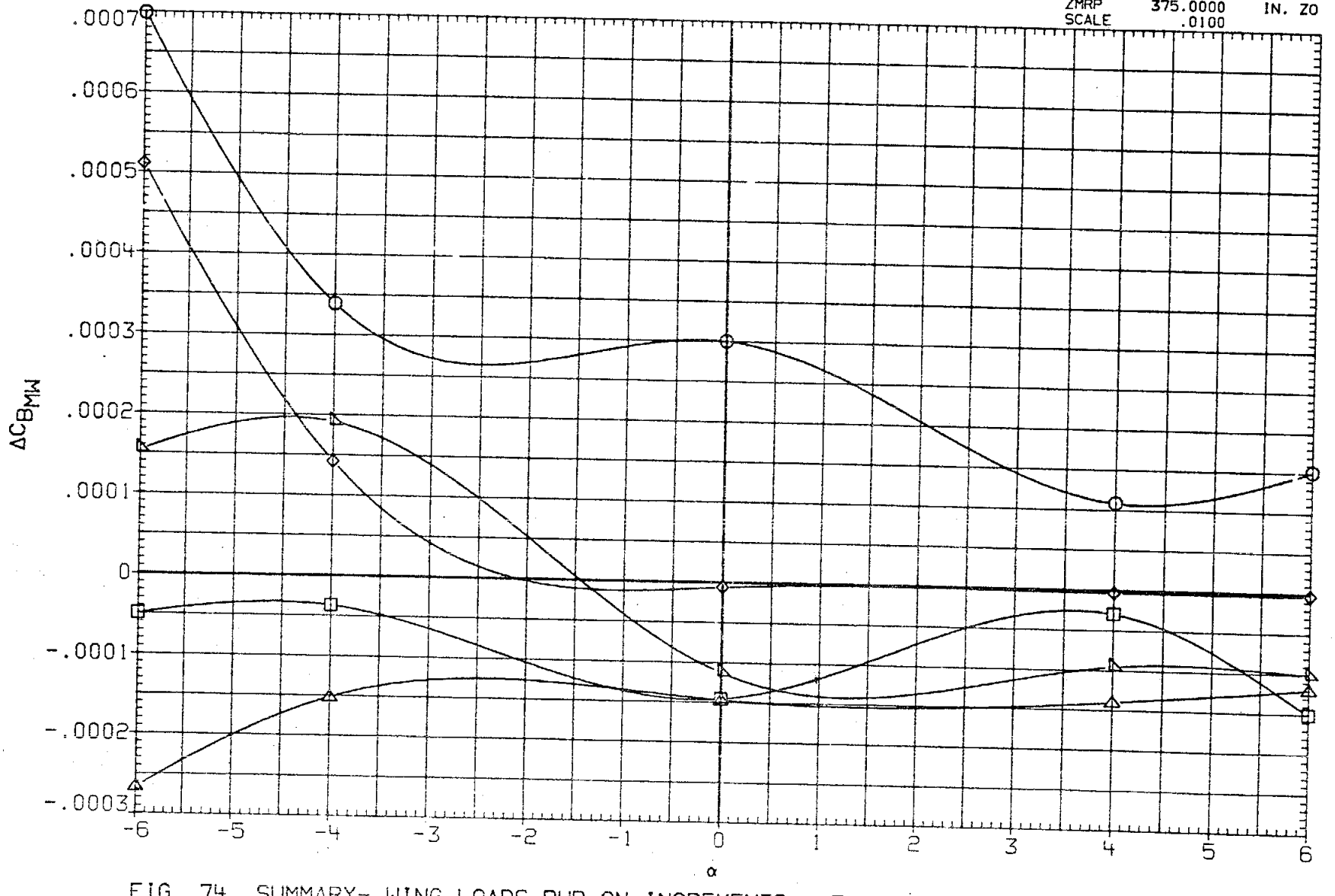

FIG. 74 SUMMARY- WING LOADS PWR ON INCREMENTS: ELV-IB=0

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

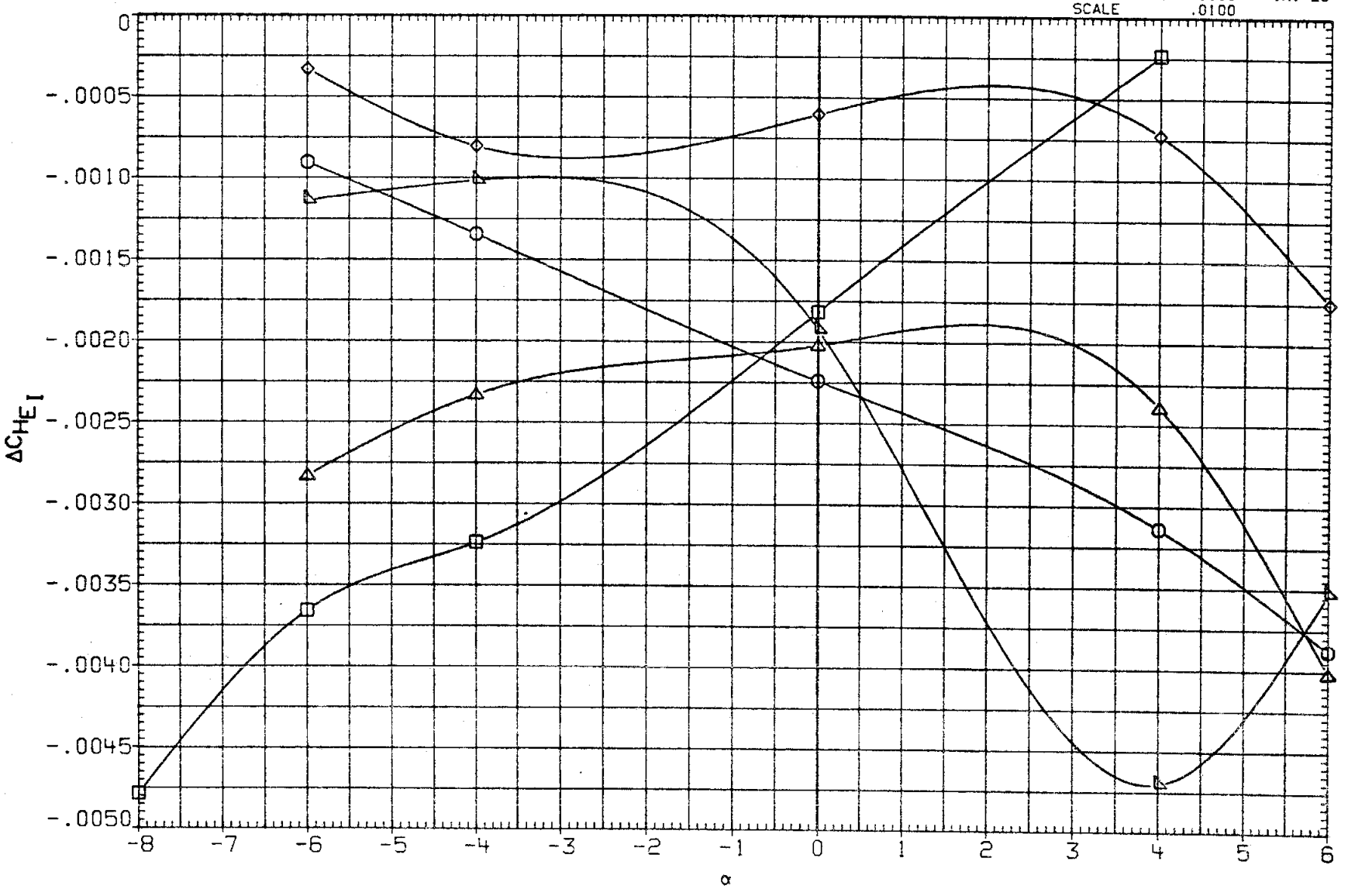

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◺	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

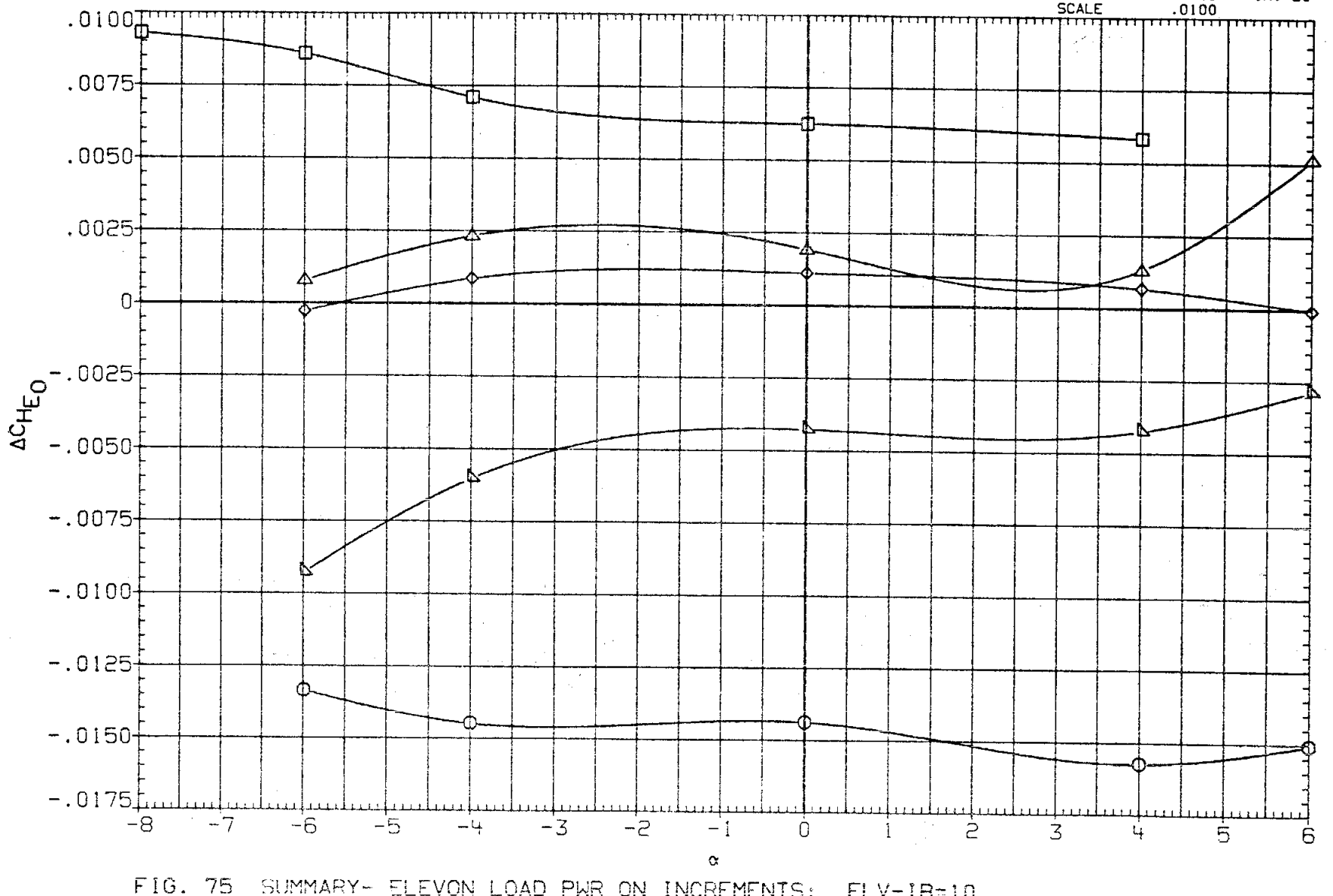

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◺	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

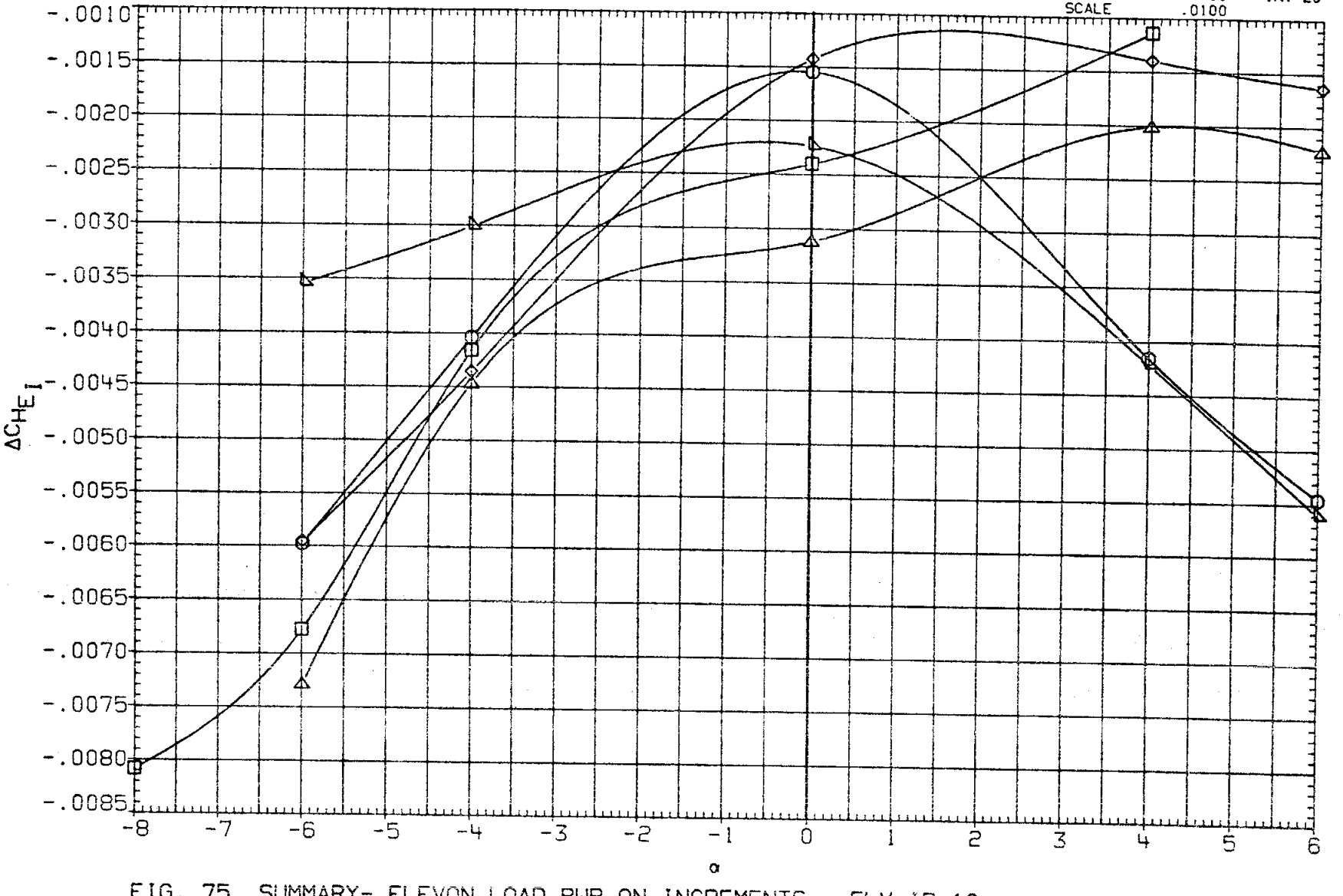

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2590.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

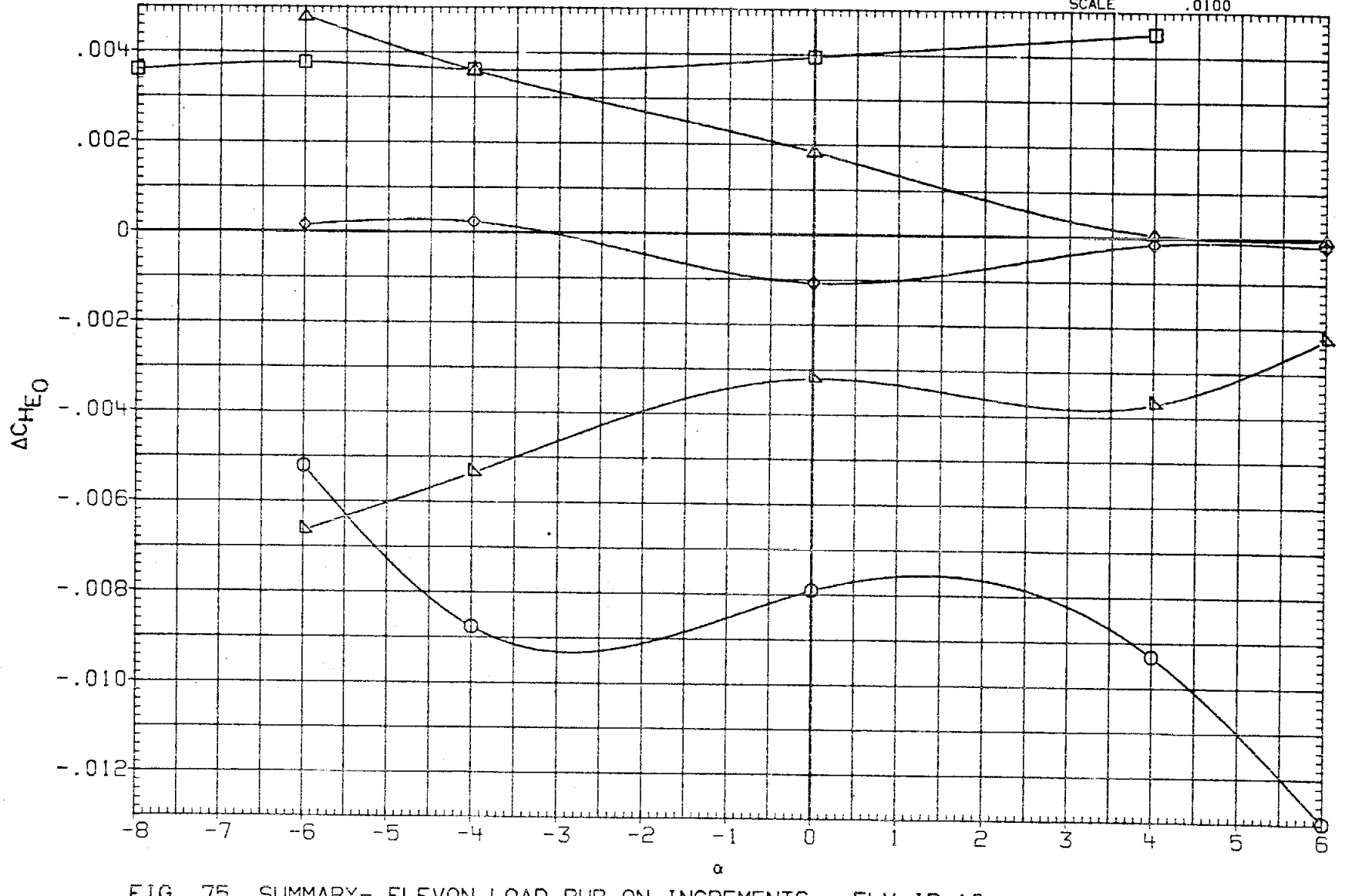

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	749.014	1316.871
C3D031	□	AMES 246-1-97 IA139 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

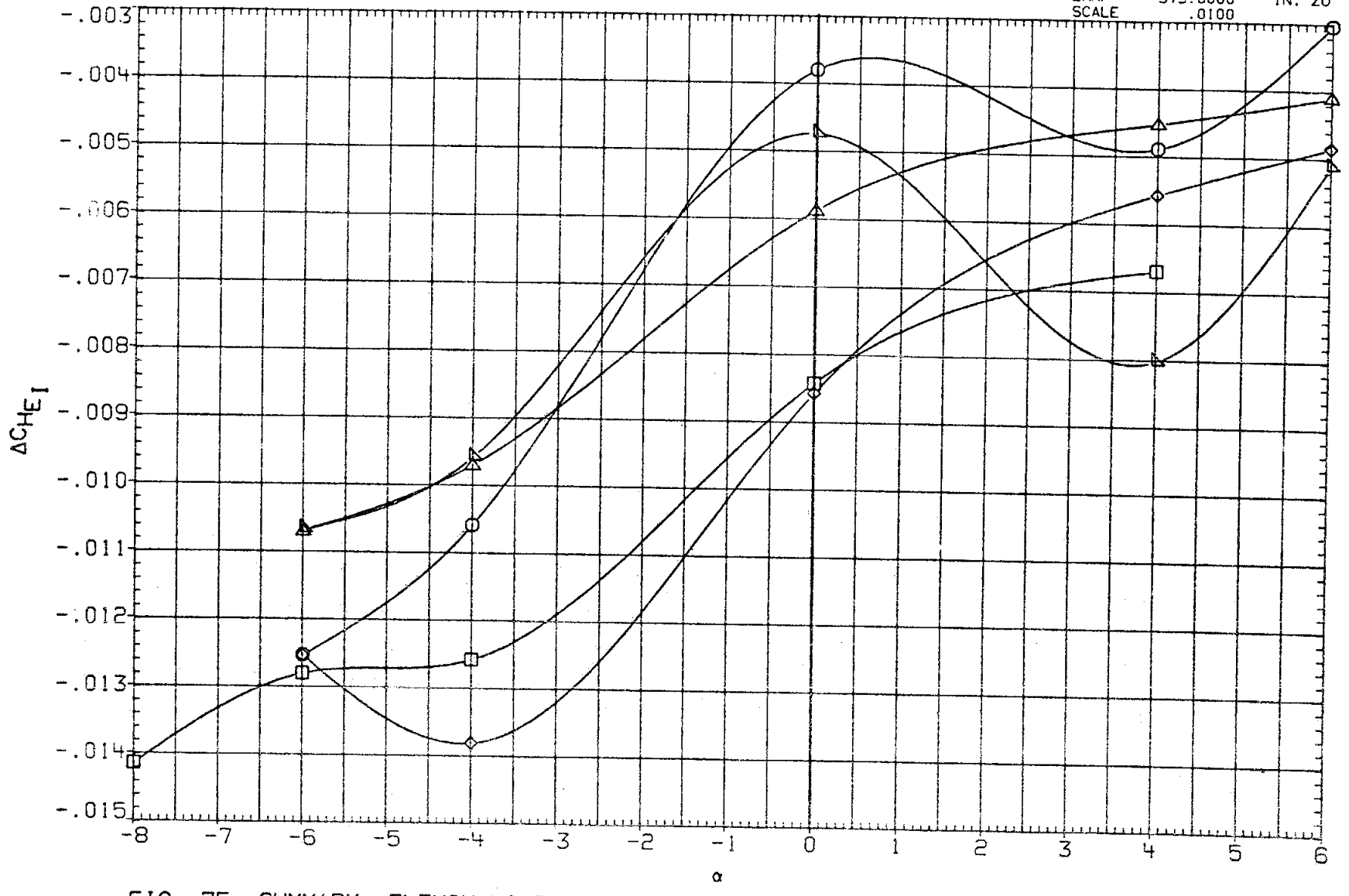

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D041	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	2.000	2.500	748.014	1316.871
C3D031	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.550	197.262	372.504
C3D032	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	1.800	274.259	481.799
C3D033	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.200	464.703	745.648
C3D034	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-2.000	2.500	750.050	1331.316

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

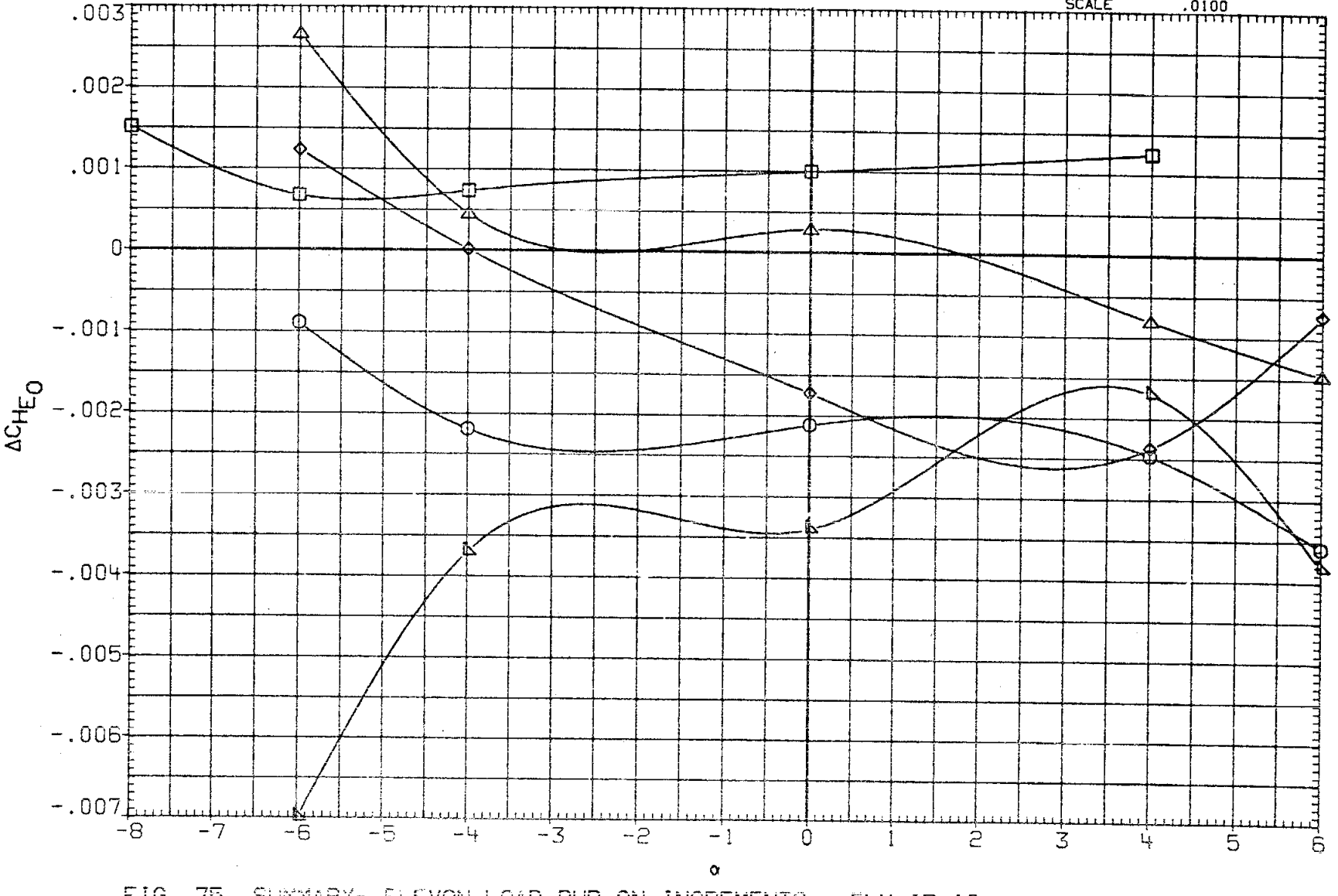

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	D	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

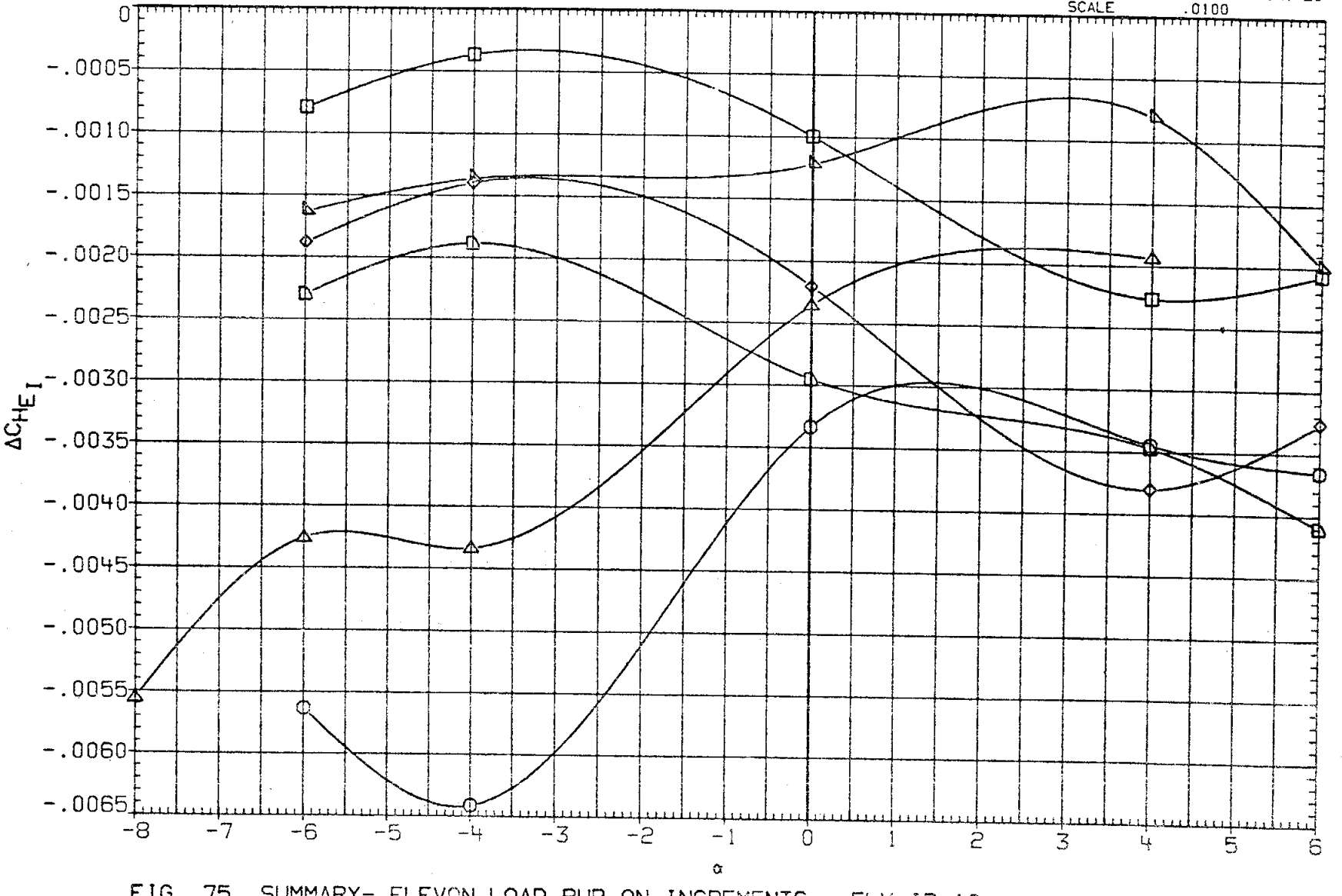

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	◿	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	◺	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

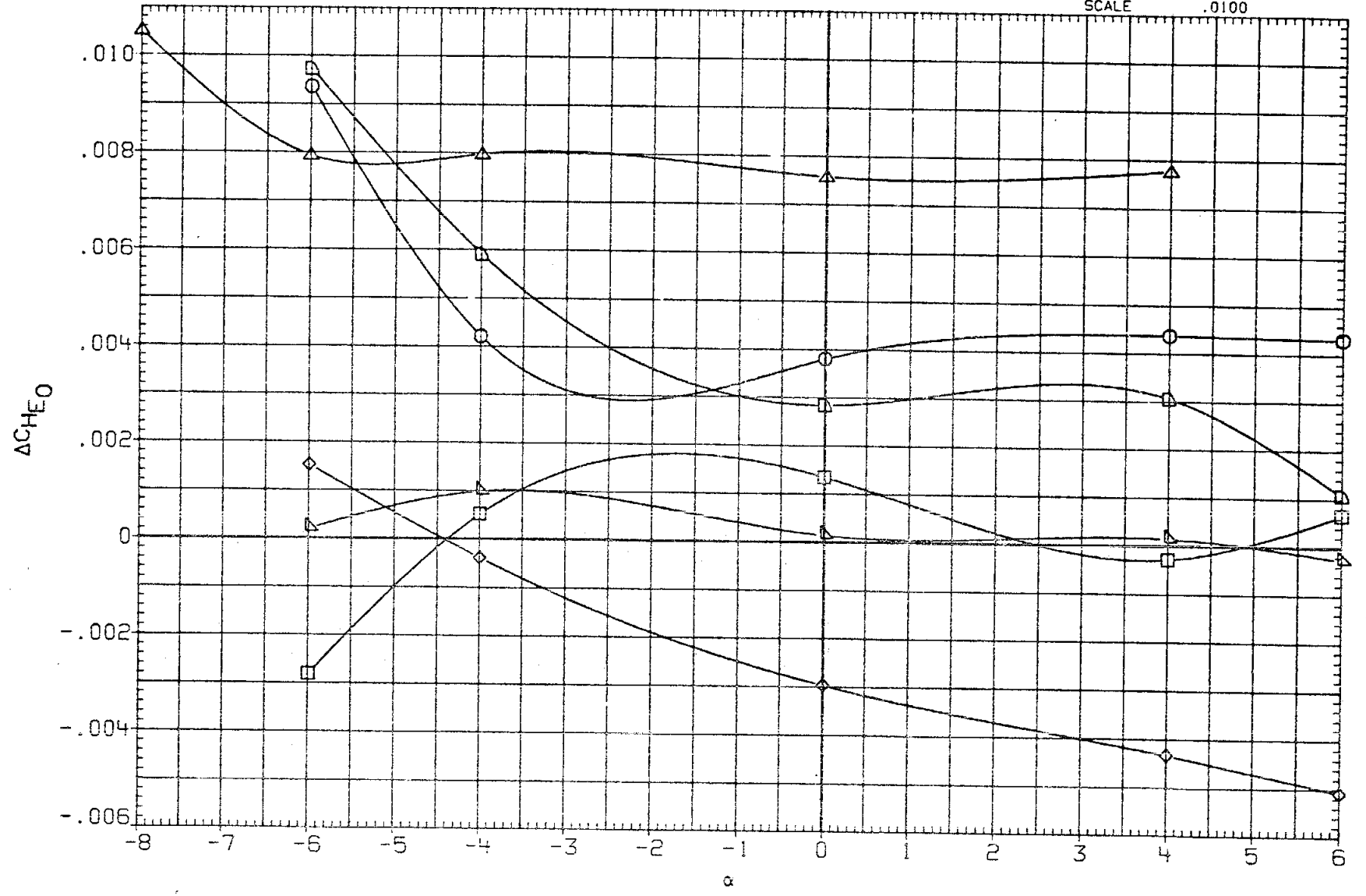

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(A)BETA = -4.00

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

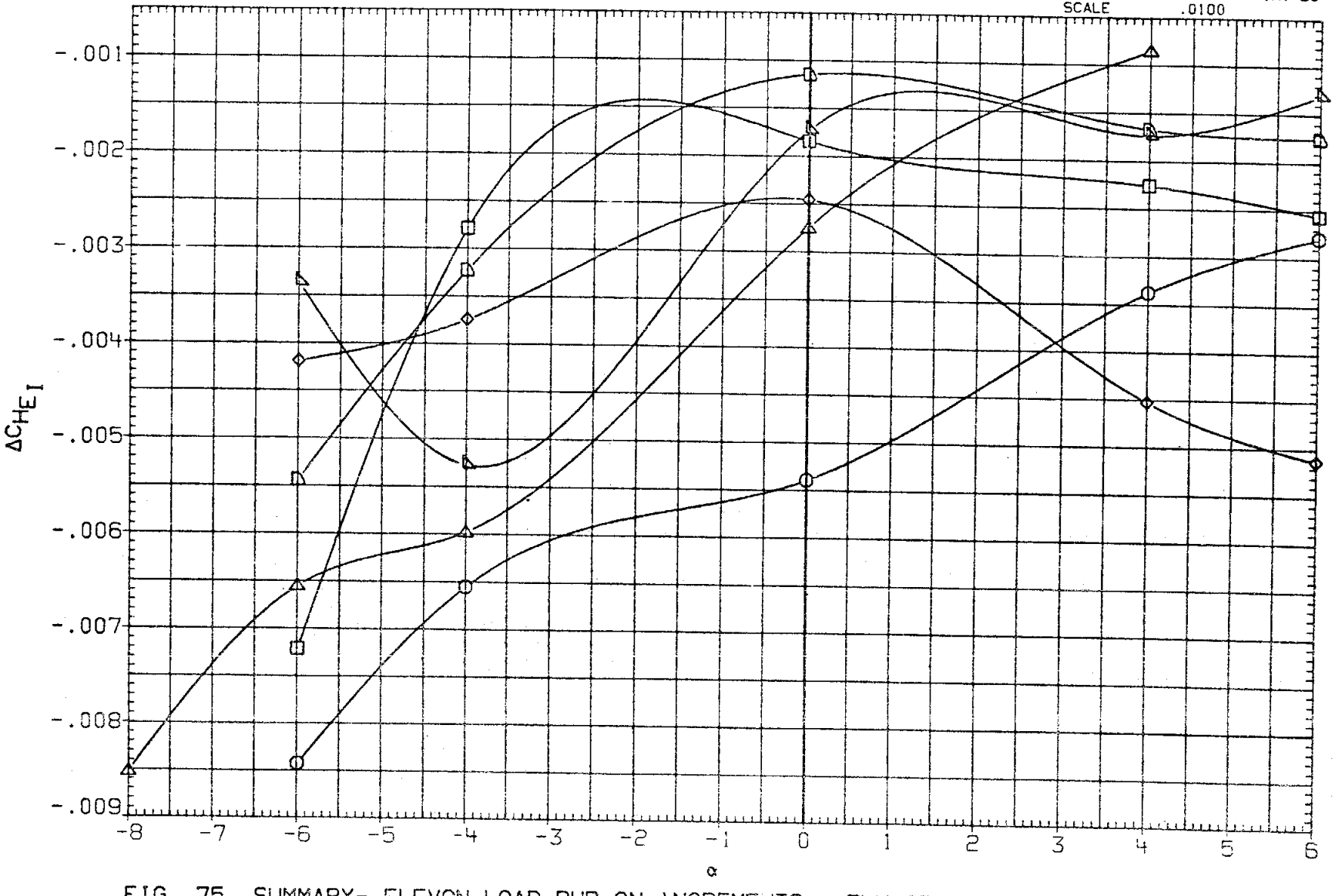

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	271.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	⬠	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

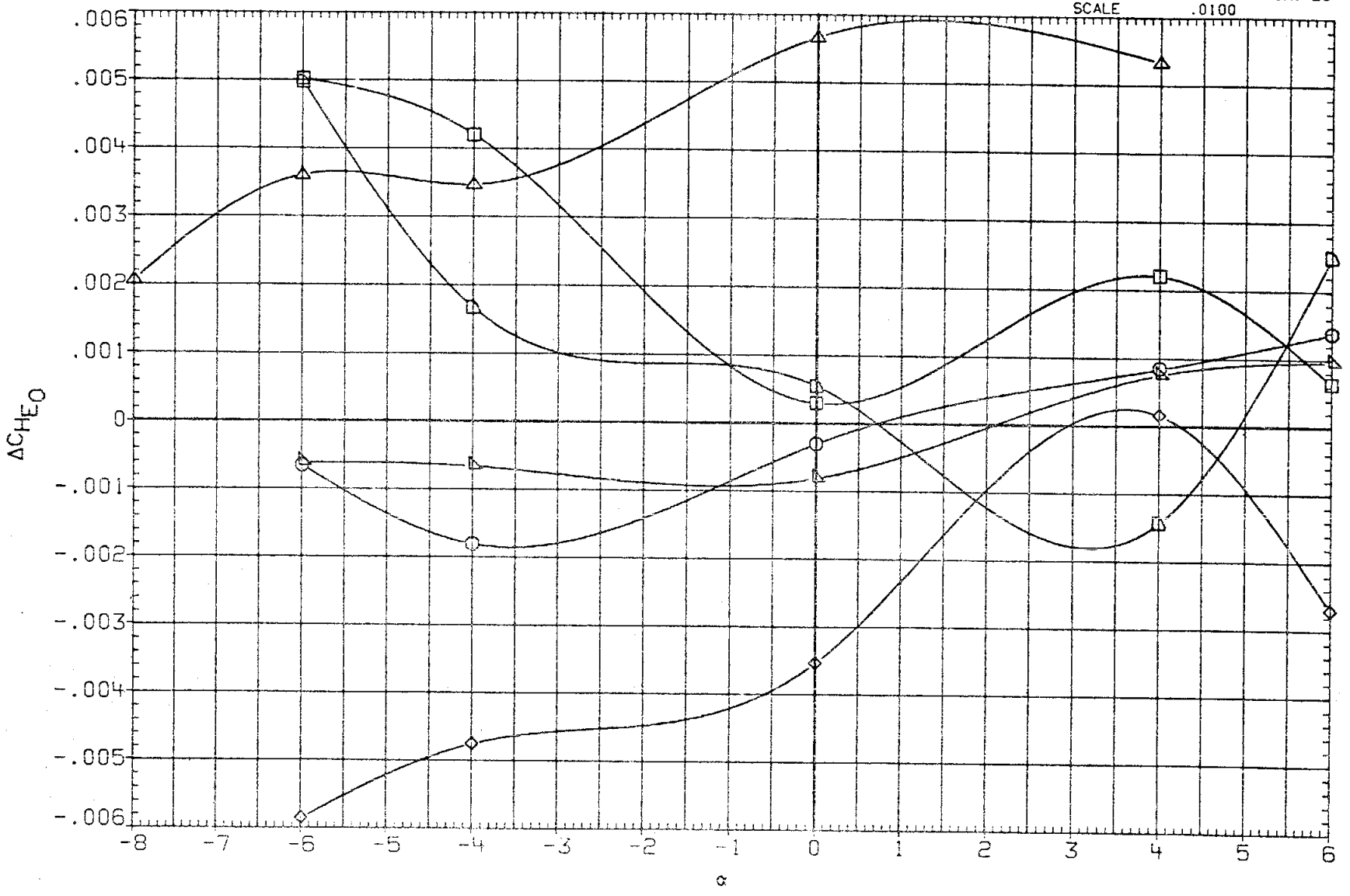

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	D	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

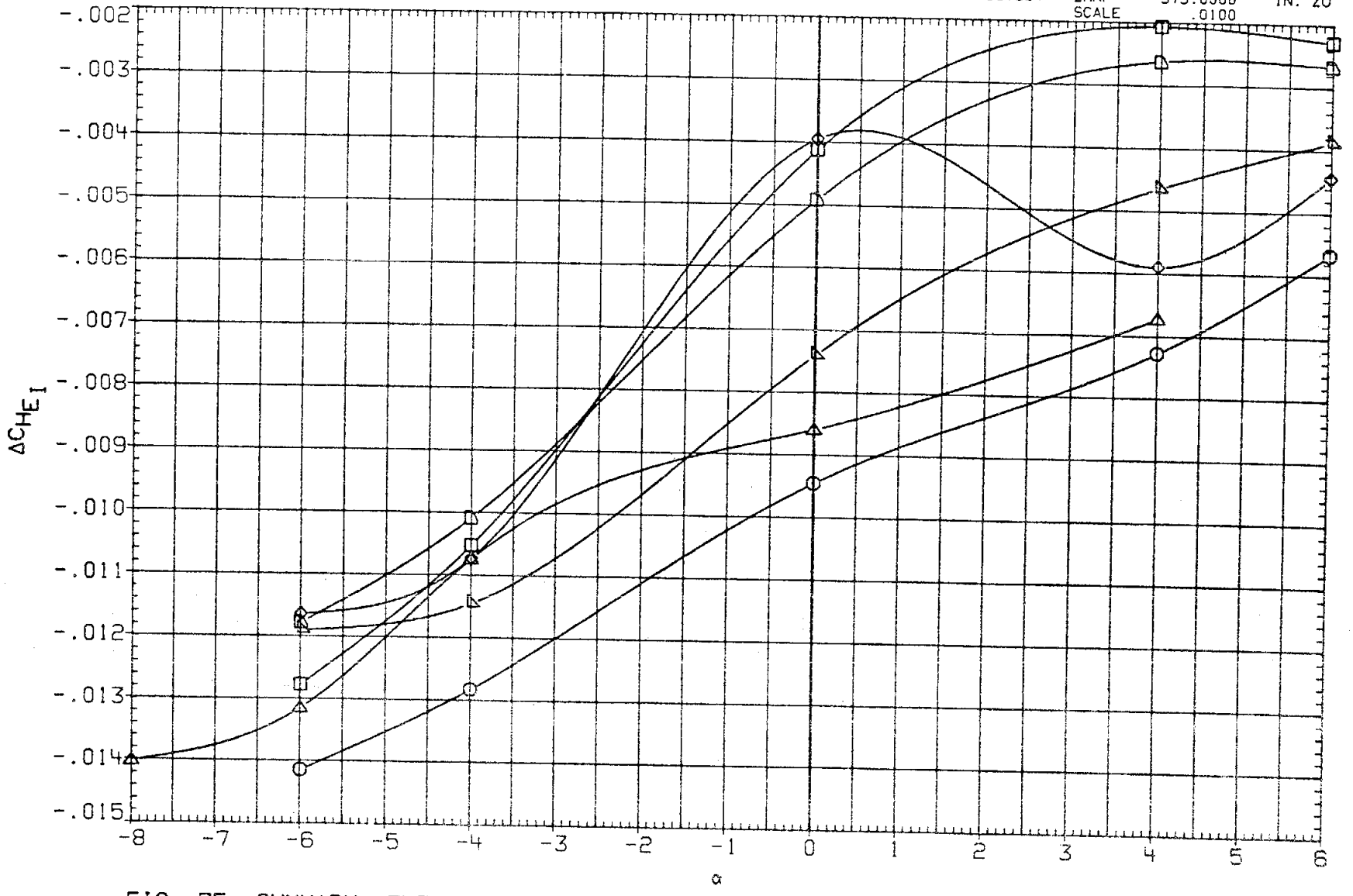

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D035	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	1.800	274.113	481.102
C3D036	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.200	462.854	744.415
C3D037	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-5.000	2.500	747.175	1328.316
C3D038	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.550	195.714	372.069
C3D039	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	1.800	273.712	479.841
C3D040	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	10.000	-7.000	2.200	463.681	738.664

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

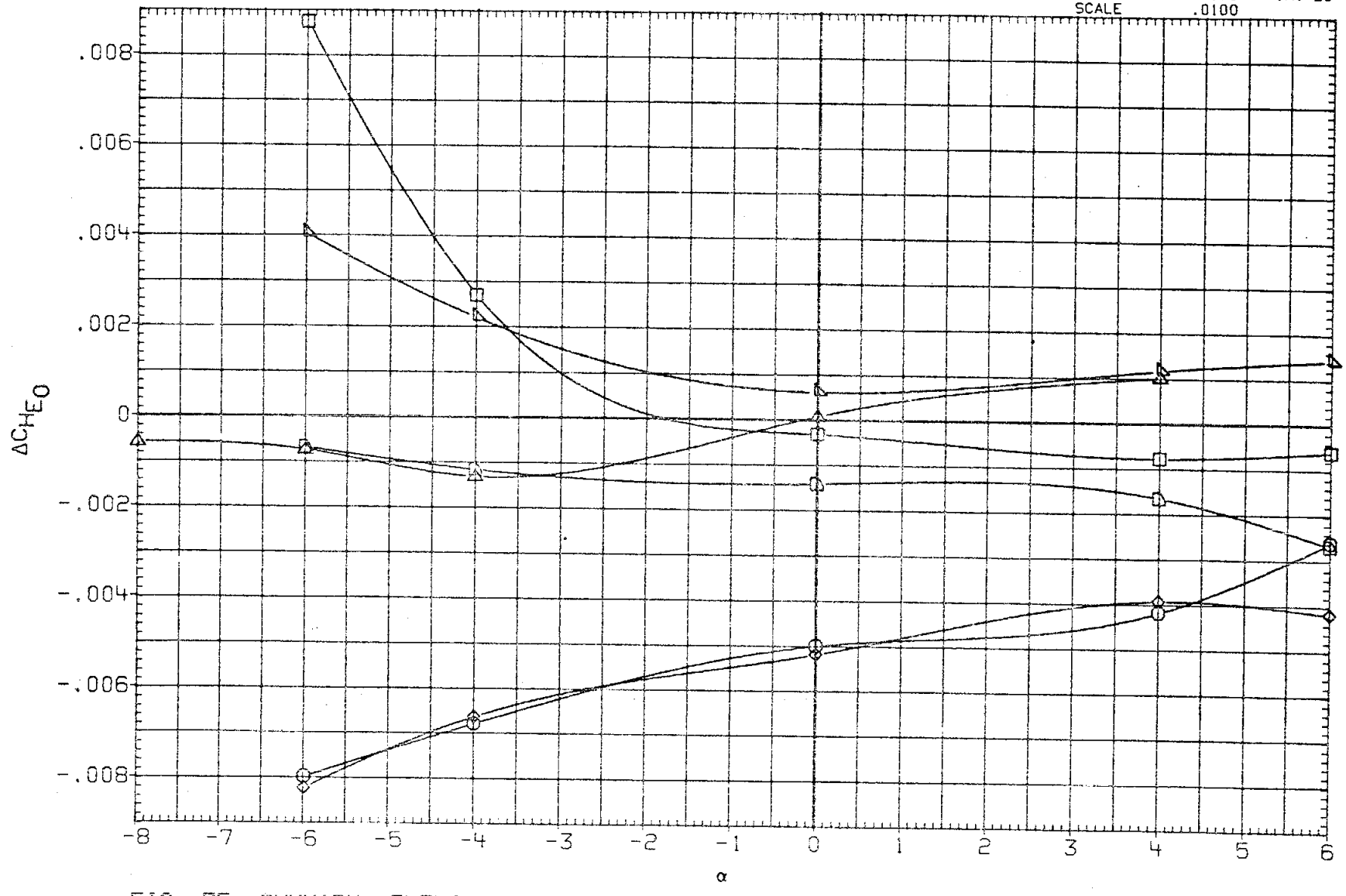

FIG. 75 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=10

DATA SET	SYMBOL	CONFIGURATION	ELV-1B	ELV-CB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.330	370.730
C3D046	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

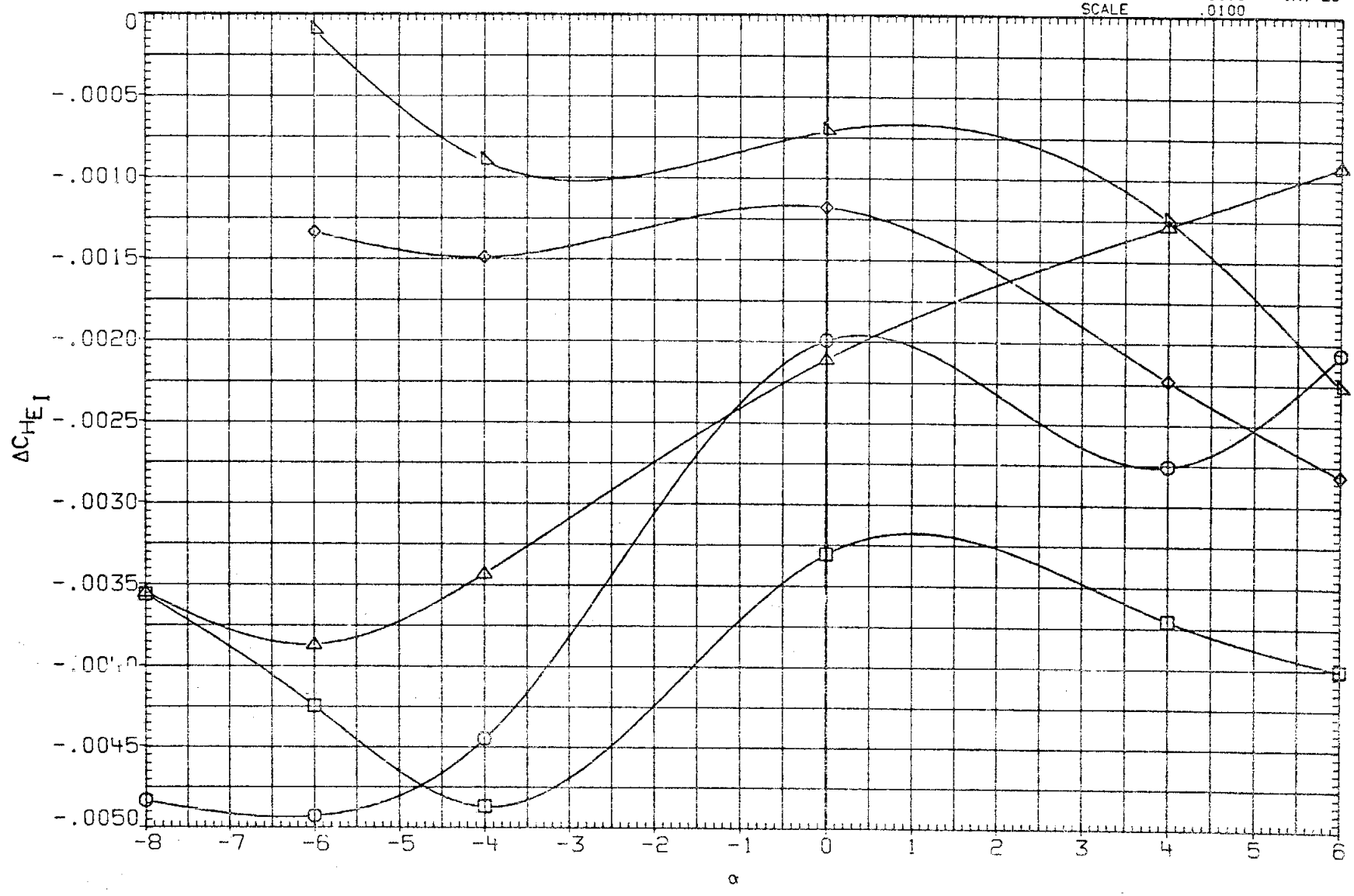

FIG. 76 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-1B=12

(A)BETA = -4.00 DATE 17 OCT 78 PAGE 412

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.600	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.600	274.464	476.752

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

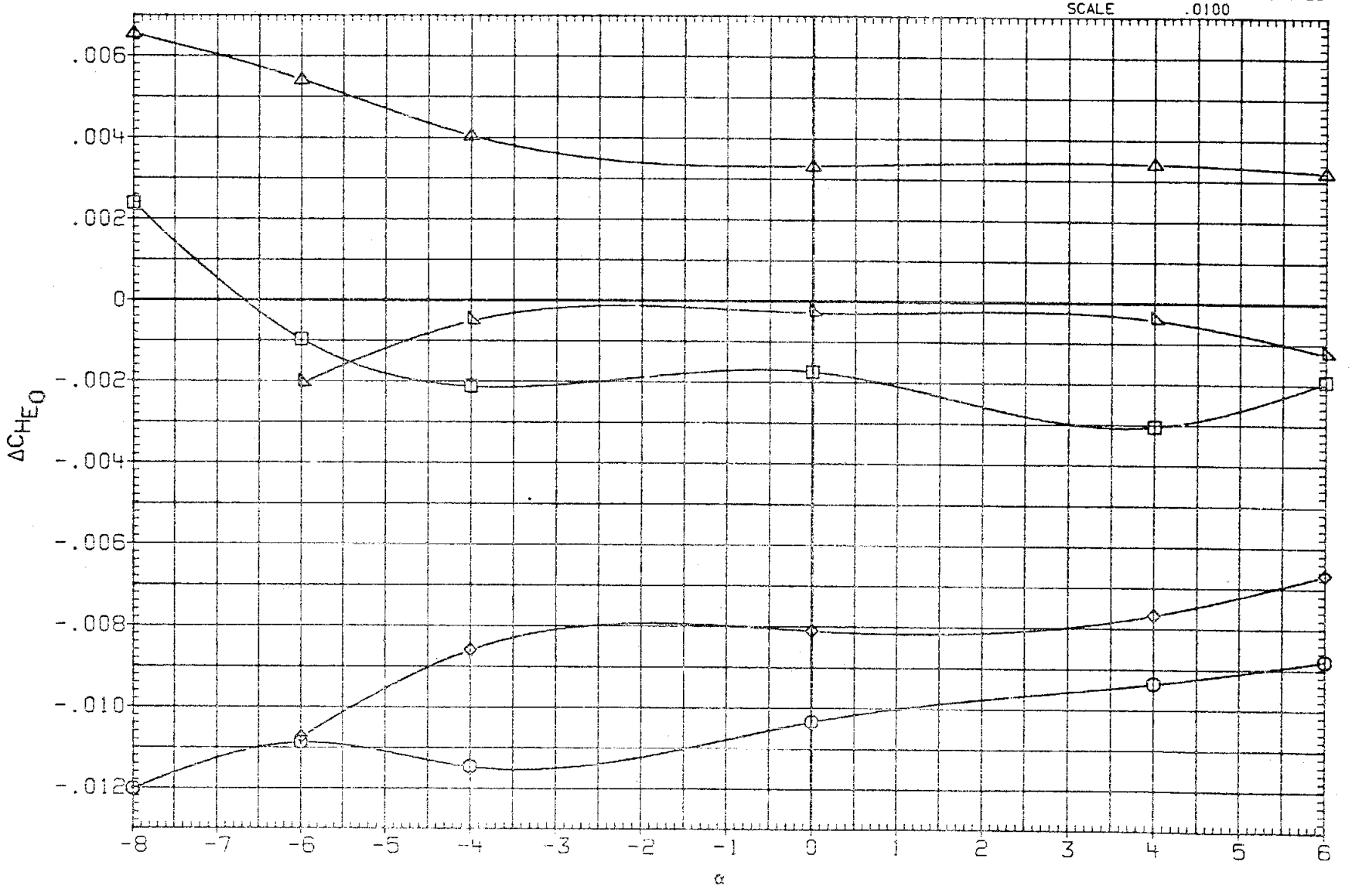

FIG. 76 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=12

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

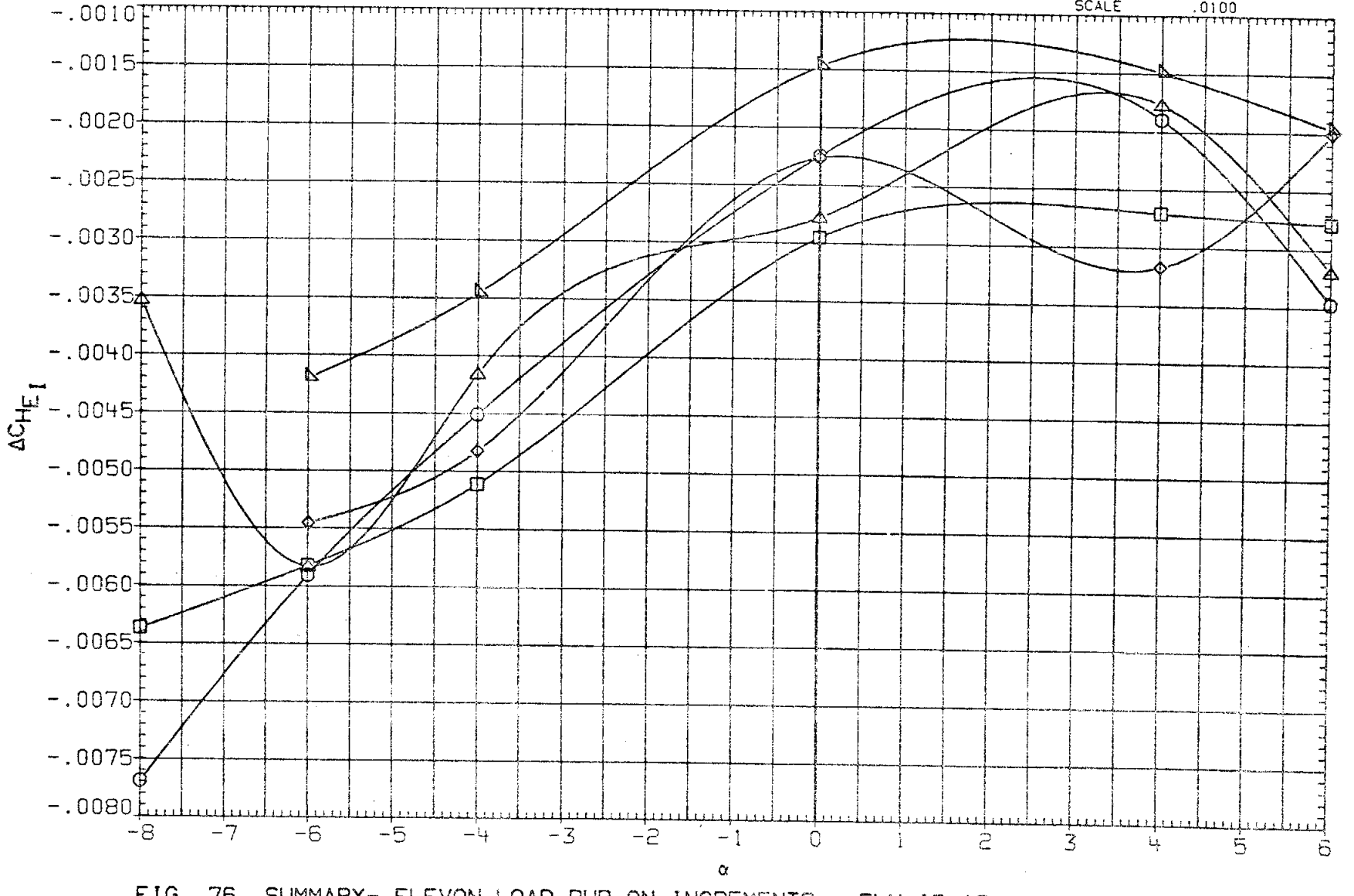

FIG. 76 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=12

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.600	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

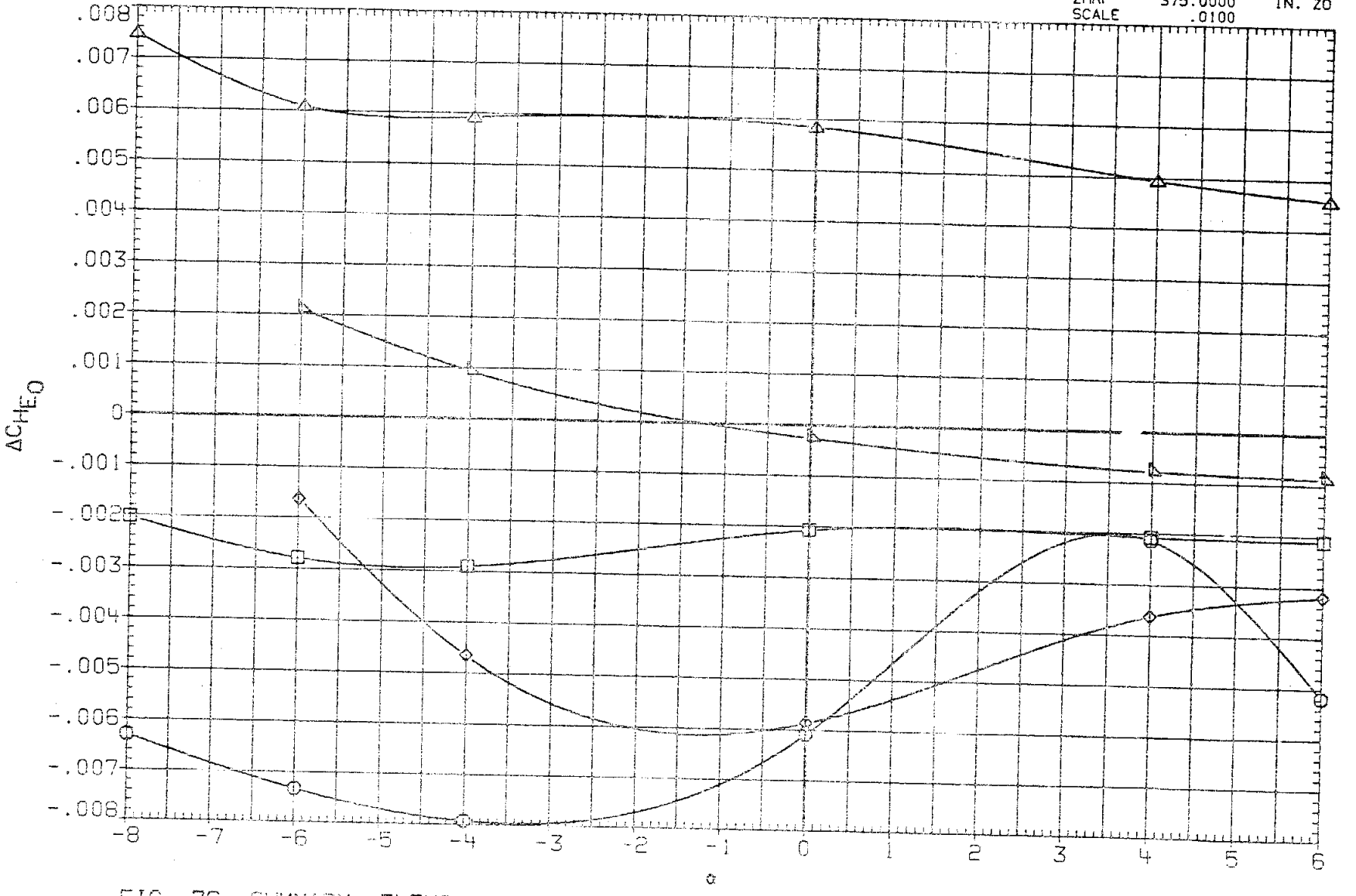

FIG. 76 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=12

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-1B	ELV-OB	MACH	SRBPR	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.900	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

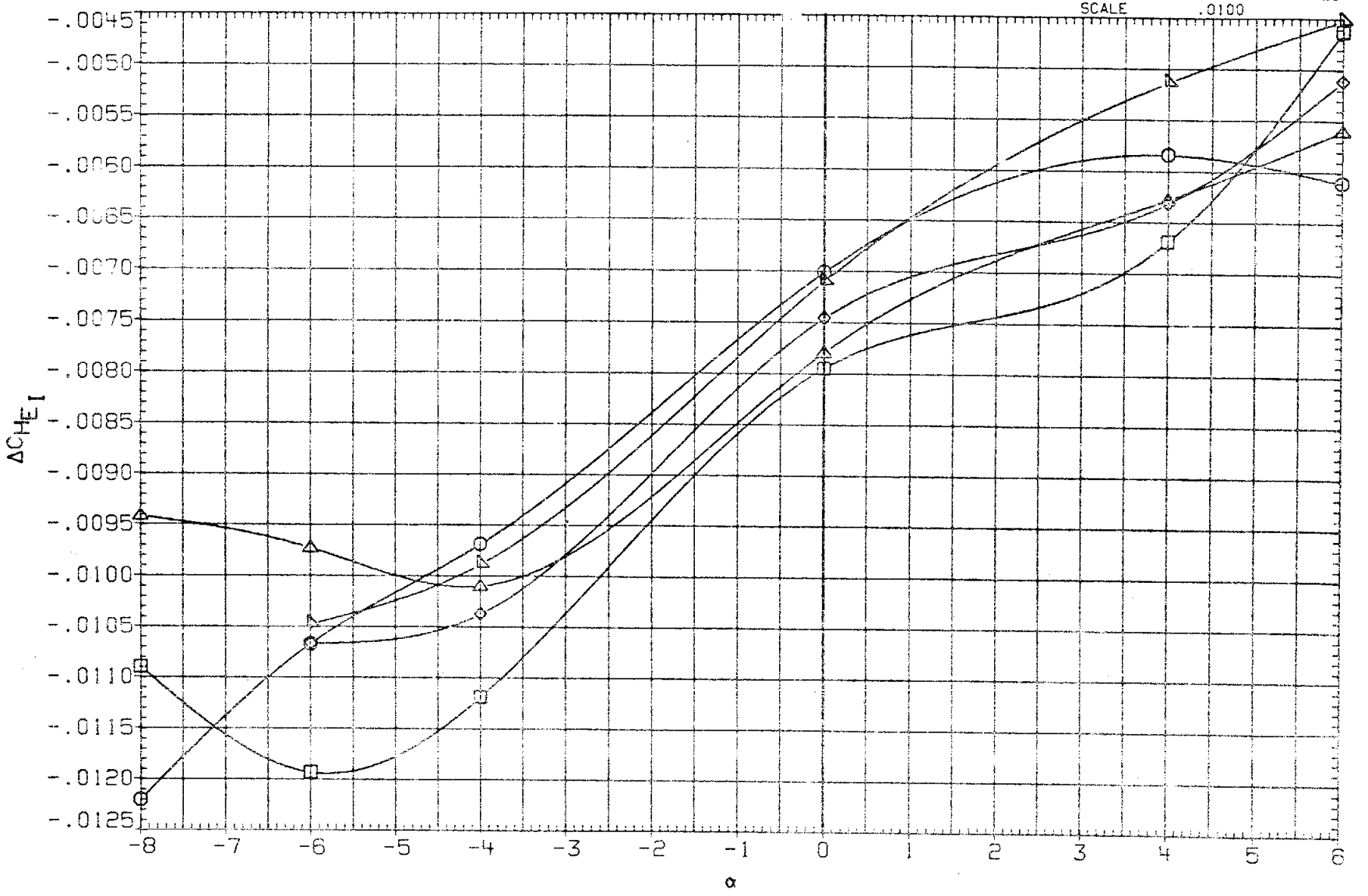

FIG. 76 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-1B=12

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D042	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.550	196.334	371.871
C3D043	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-2.000	1.800	274.808	475.914
C3D044	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-5.000	1.800	274.742	477.942
C3D045	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.550	196.380	370.730
C3D046	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	12.000	-7.000	1.800	274.464	476.752

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

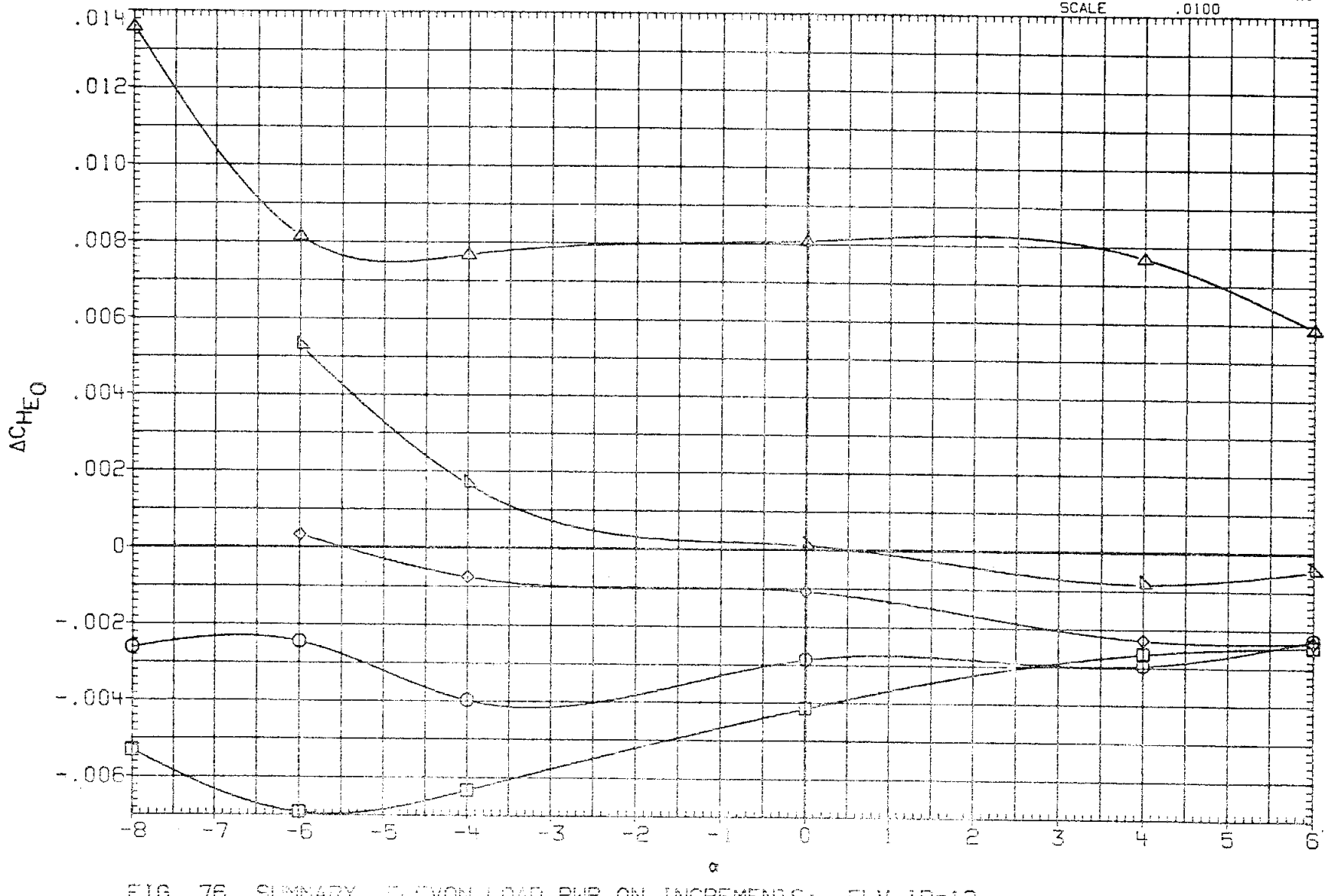

FIG. 76 SUMMARY [illegible]EVON LOAD PWR ON INCREMENTS: ELV-IB=12

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 417

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
03D047	○	AMES 2+6-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
03D048	□	AMES 2+6-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.148	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

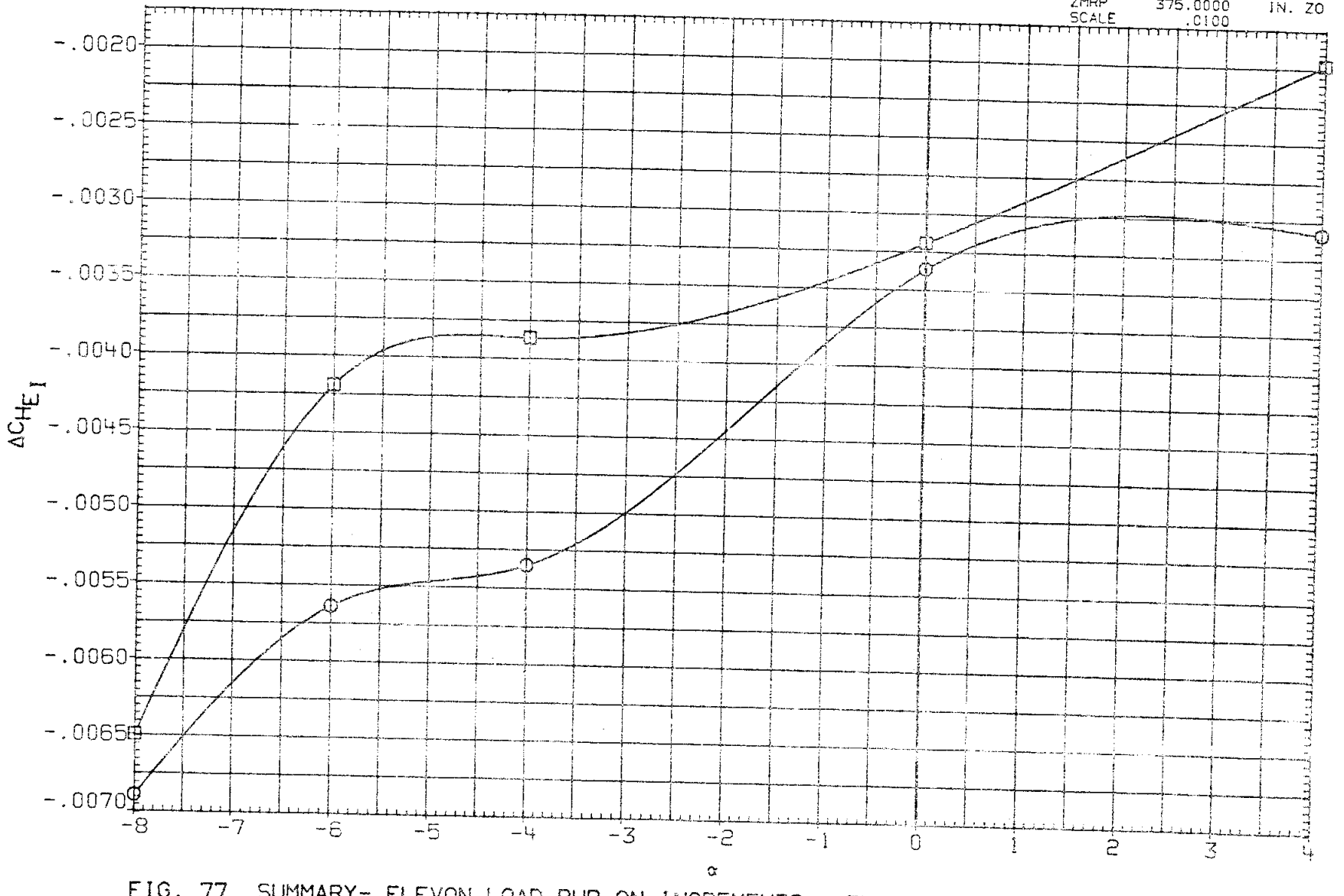

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C30047	○	AMES 246-1-97 (A)38 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C30048	□	AMES 246-1-97 (A)38 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

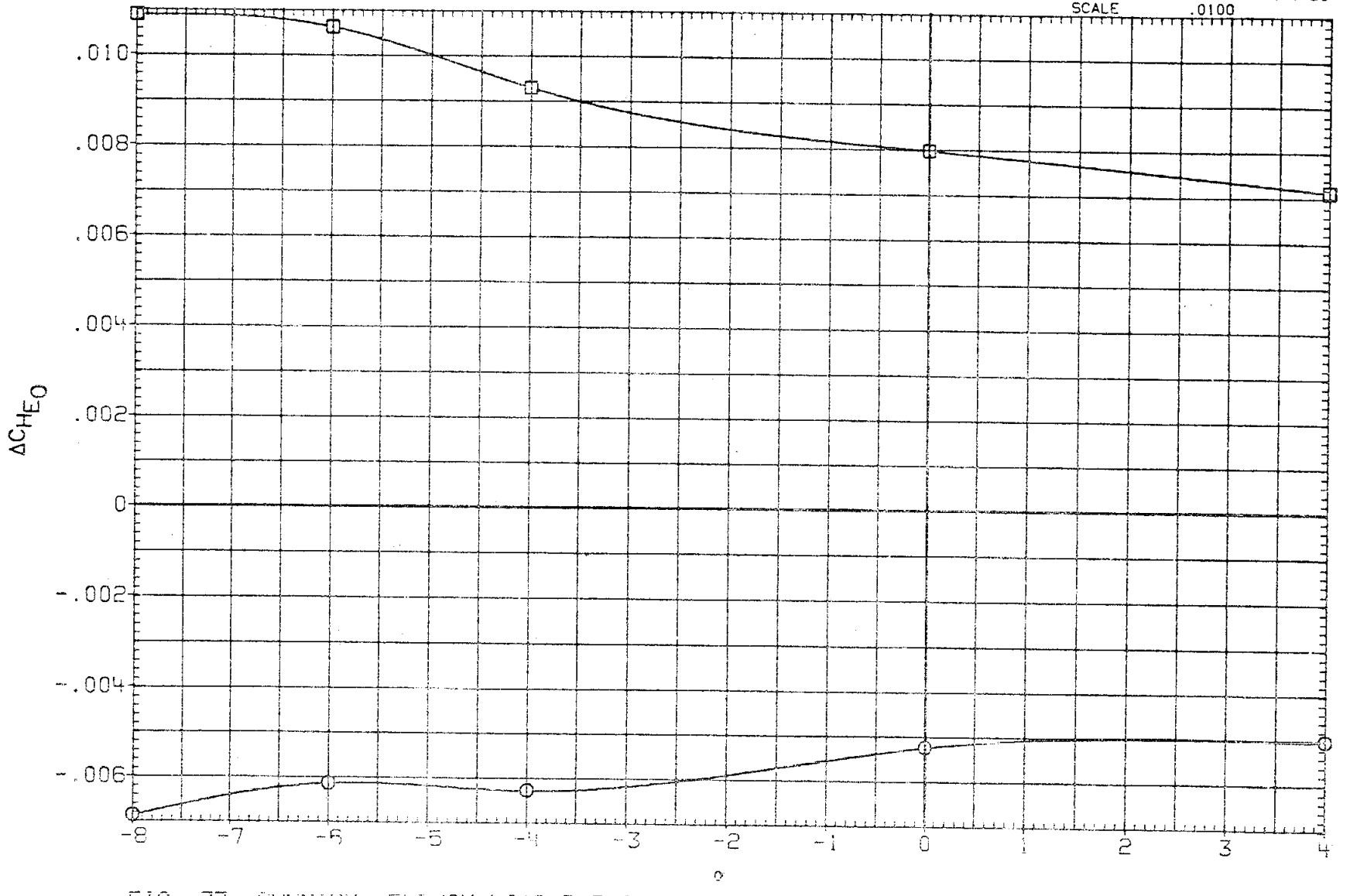

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(A)BETA = -4.00

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

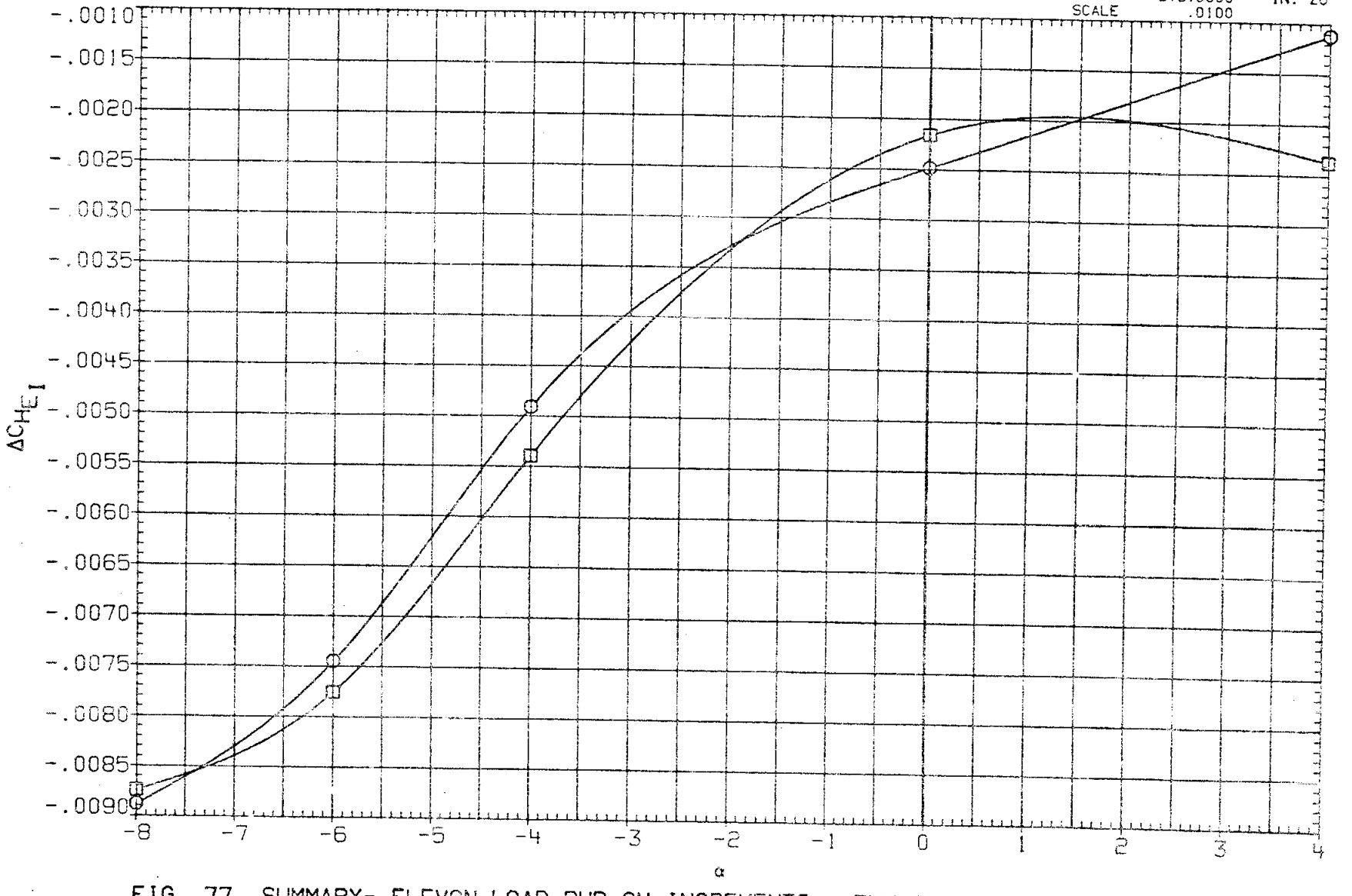

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.378	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

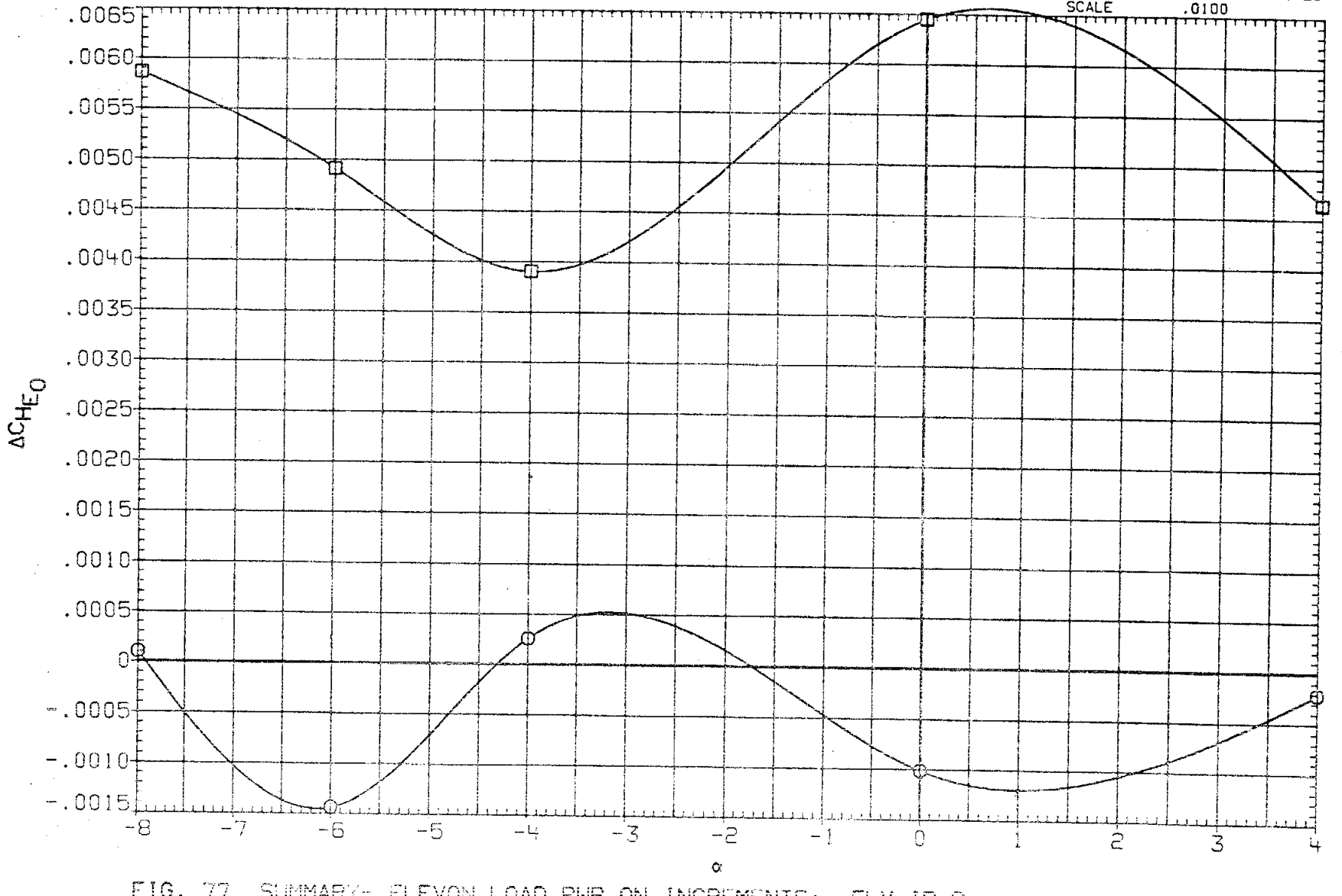

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(B)BETA = .00 DATE 17 OCT 78 PAGE 421

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D047	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
C3D048	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

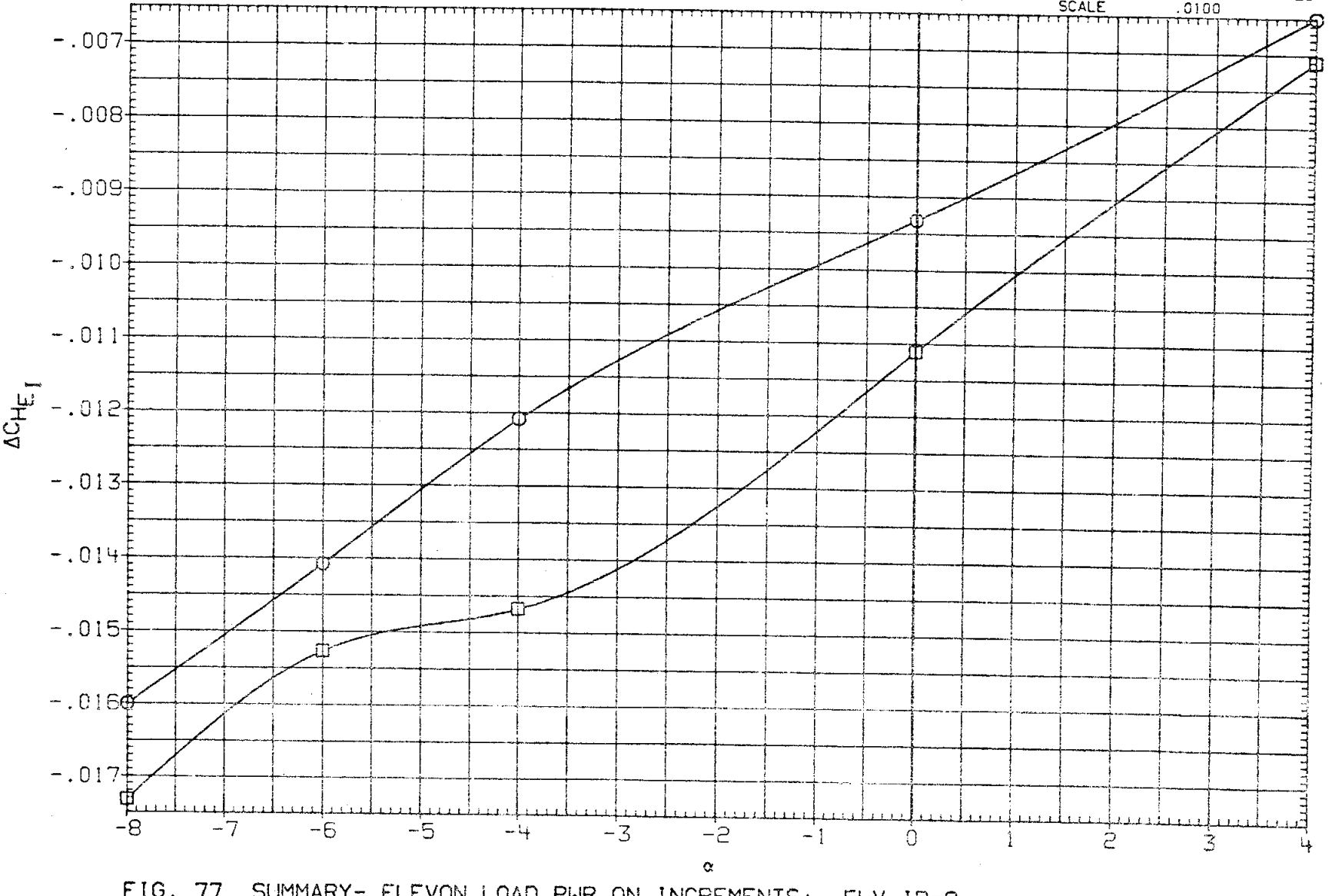

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
03D047	○	AMES 2%S-1-97 IA139 OTS (POWER ON - POWER OFF)	8.000	-2.000	1.550	196.379	372.181
03D048	□	AMES 2%S-1-97 IA138 OTS (POWER ON - POWER OFF)	8.000	-7.000	1.550	196.146	1637.358

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

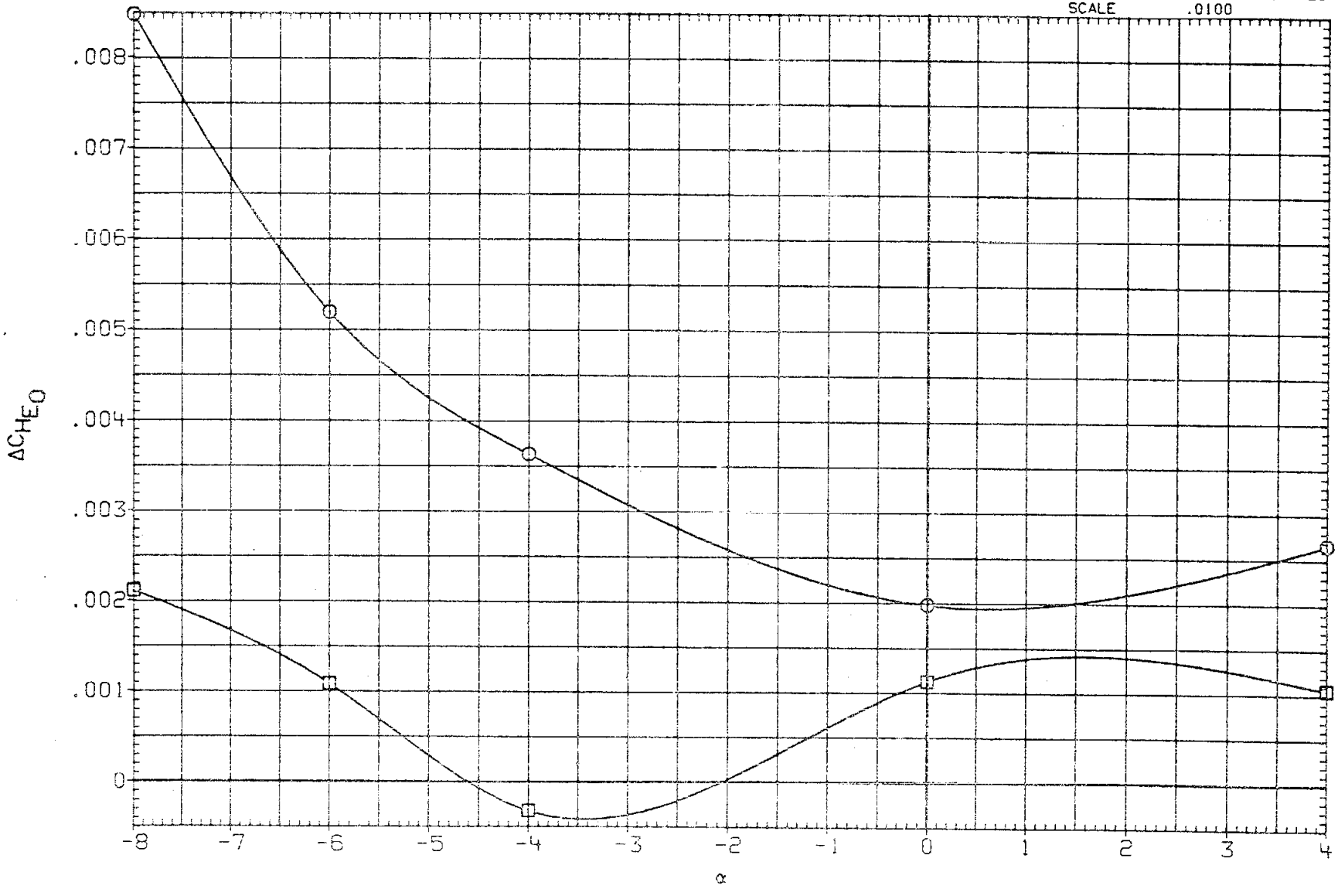

FIG. 77 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=8

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 423

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

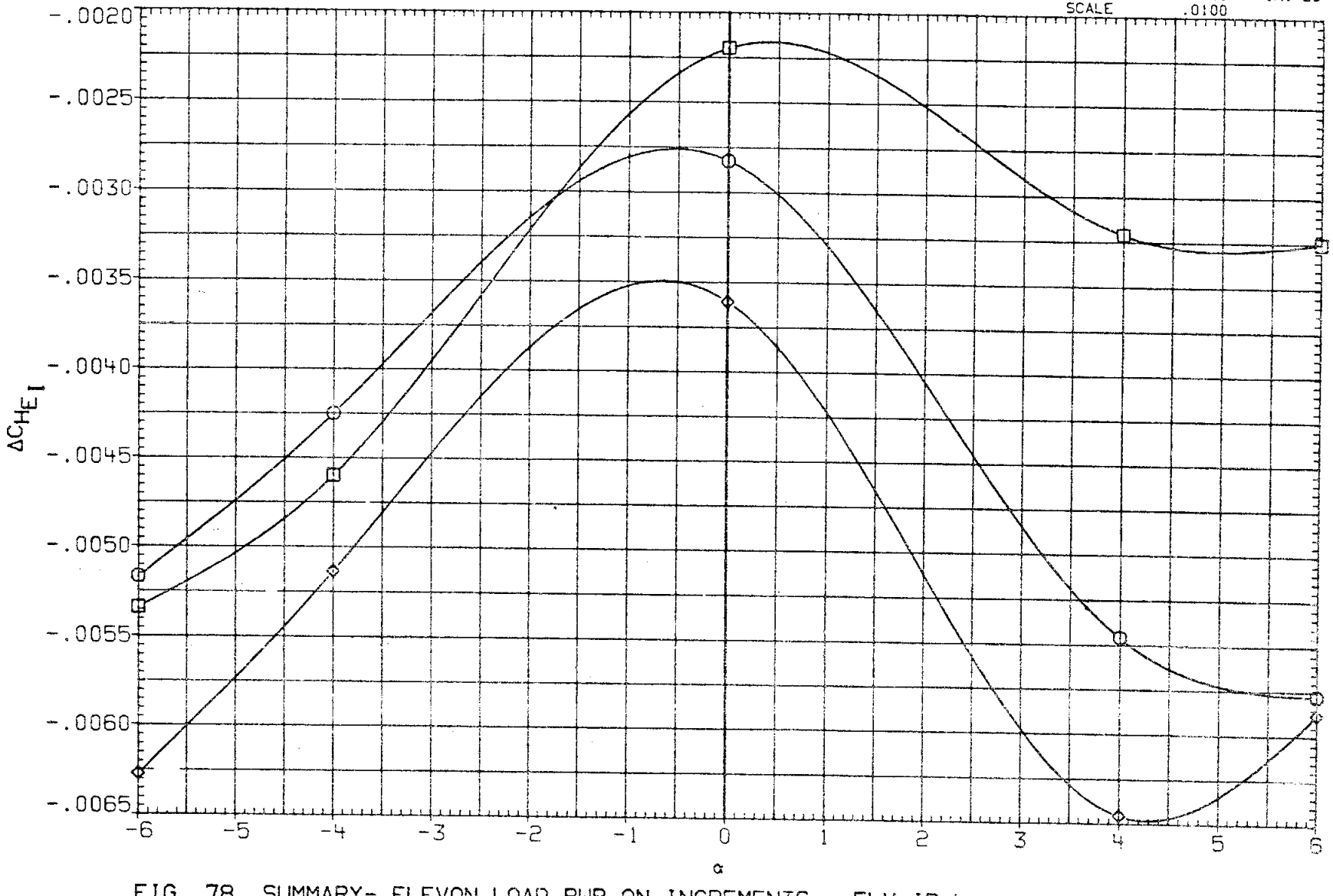

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

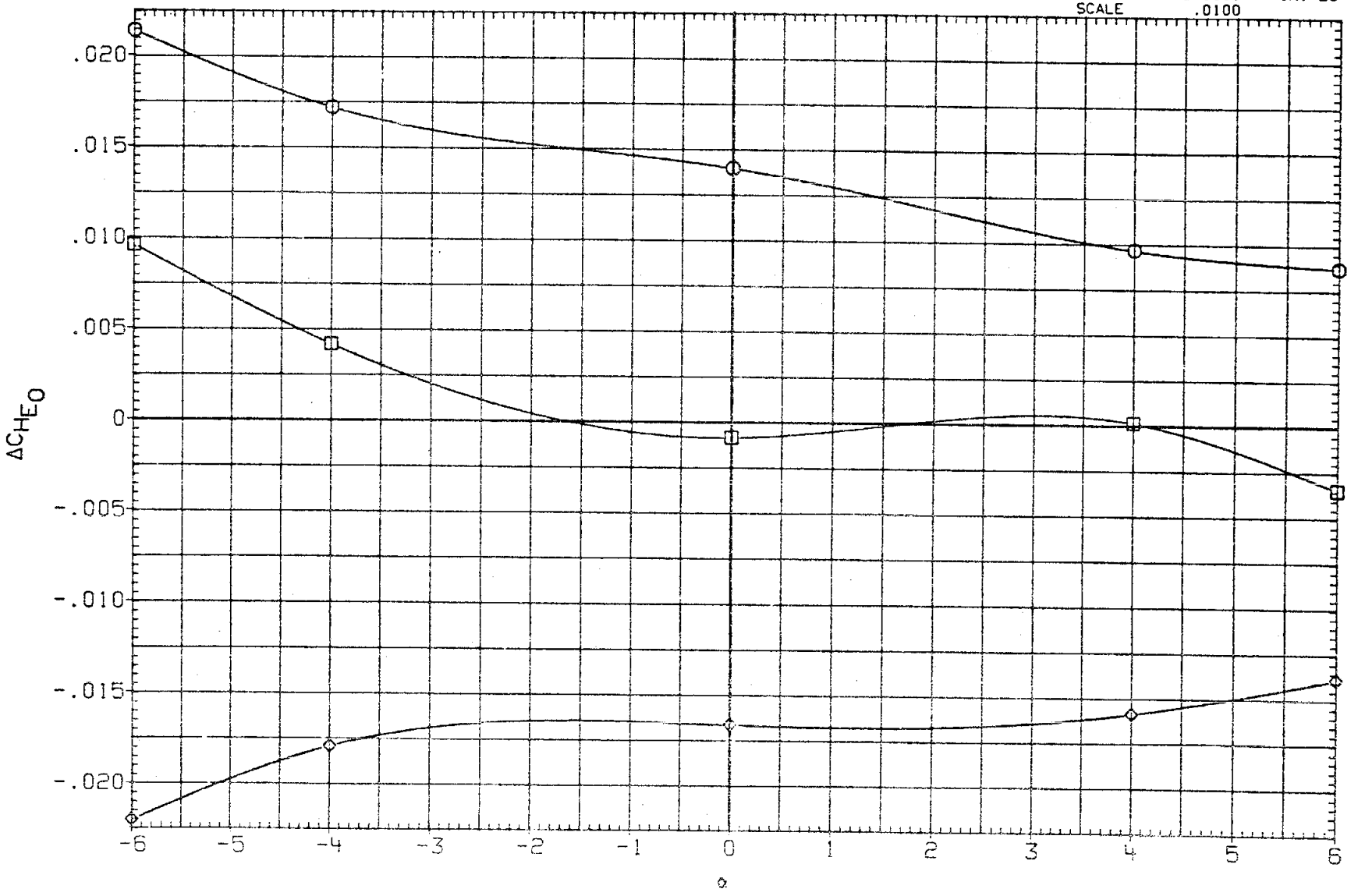

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

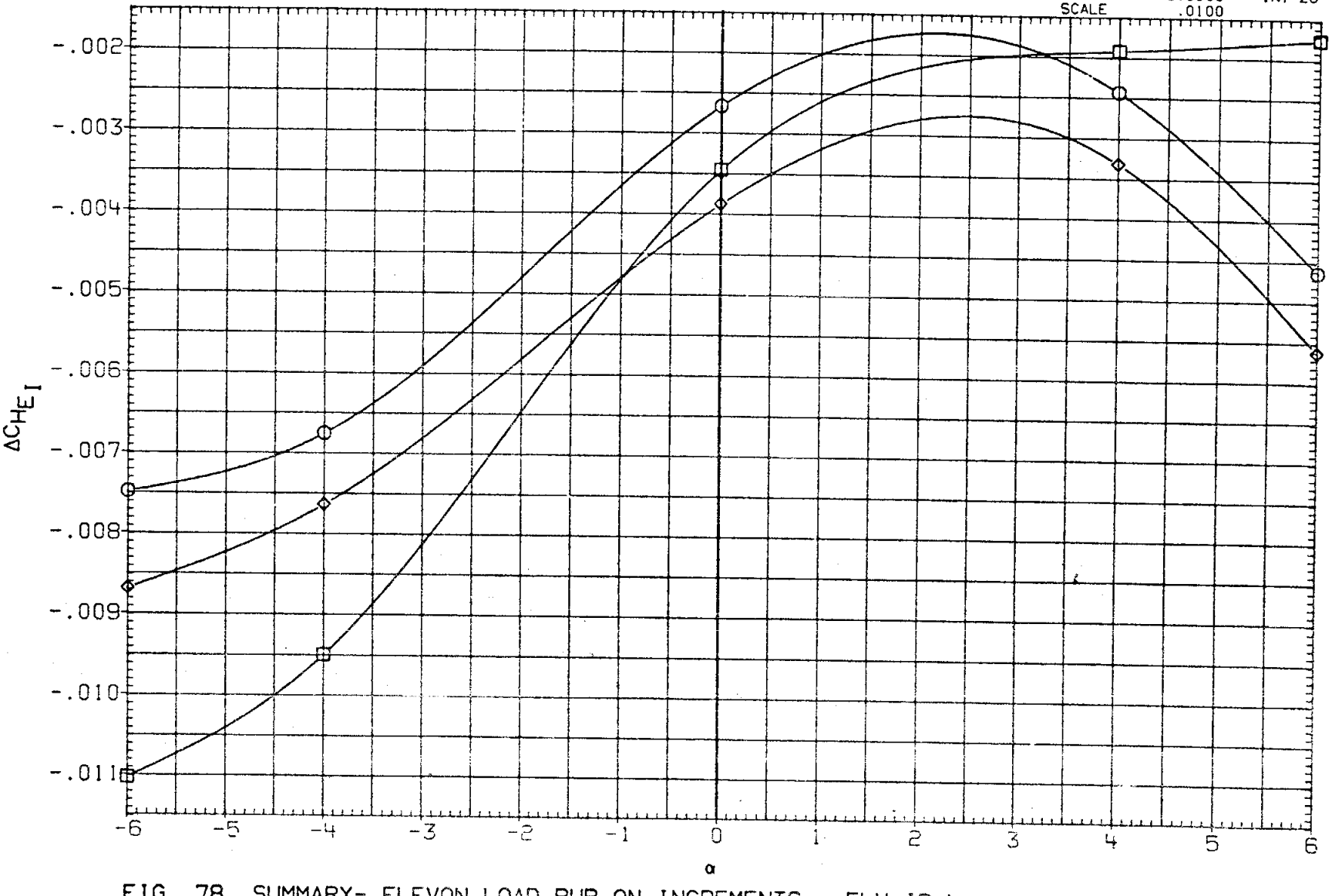

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

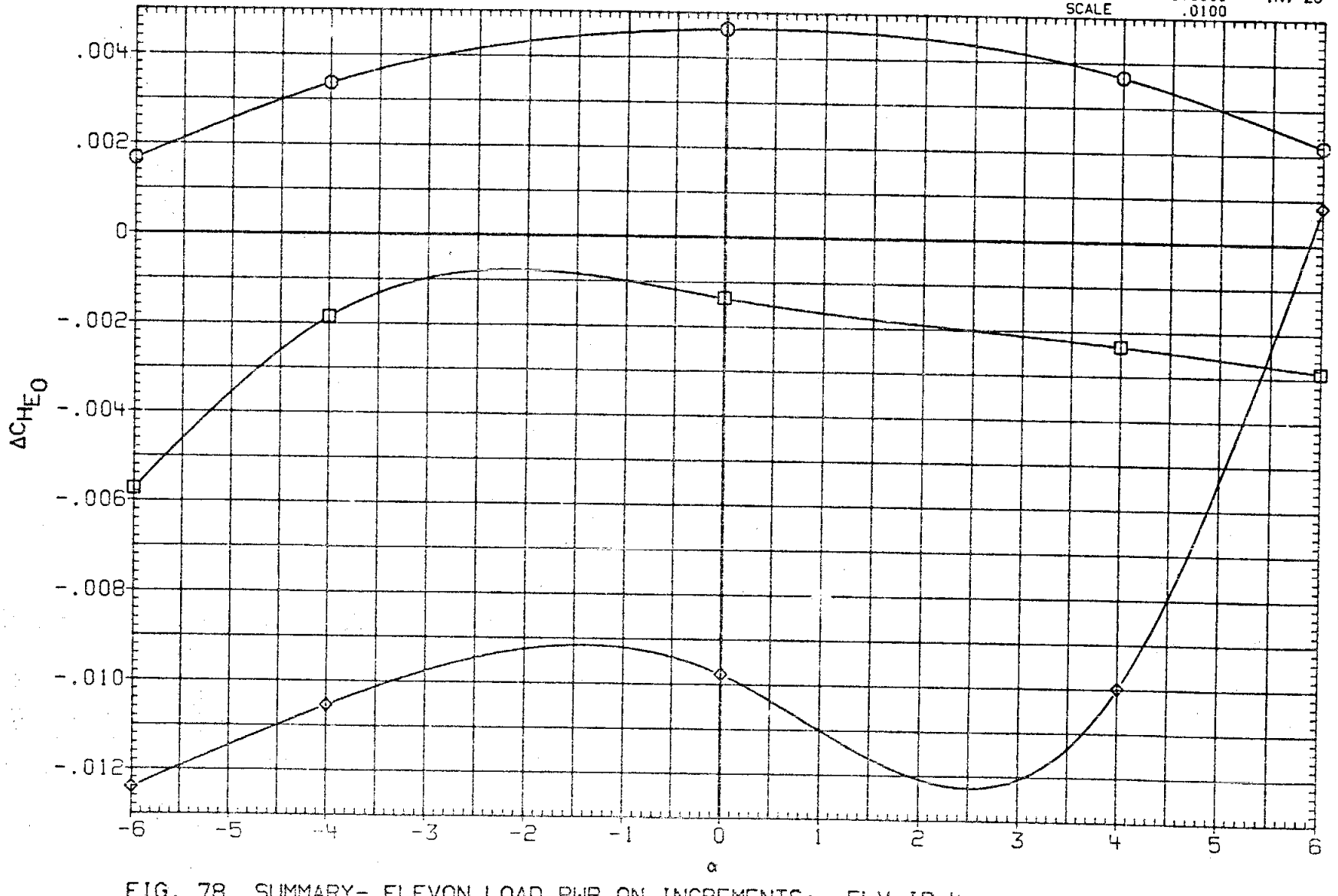

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

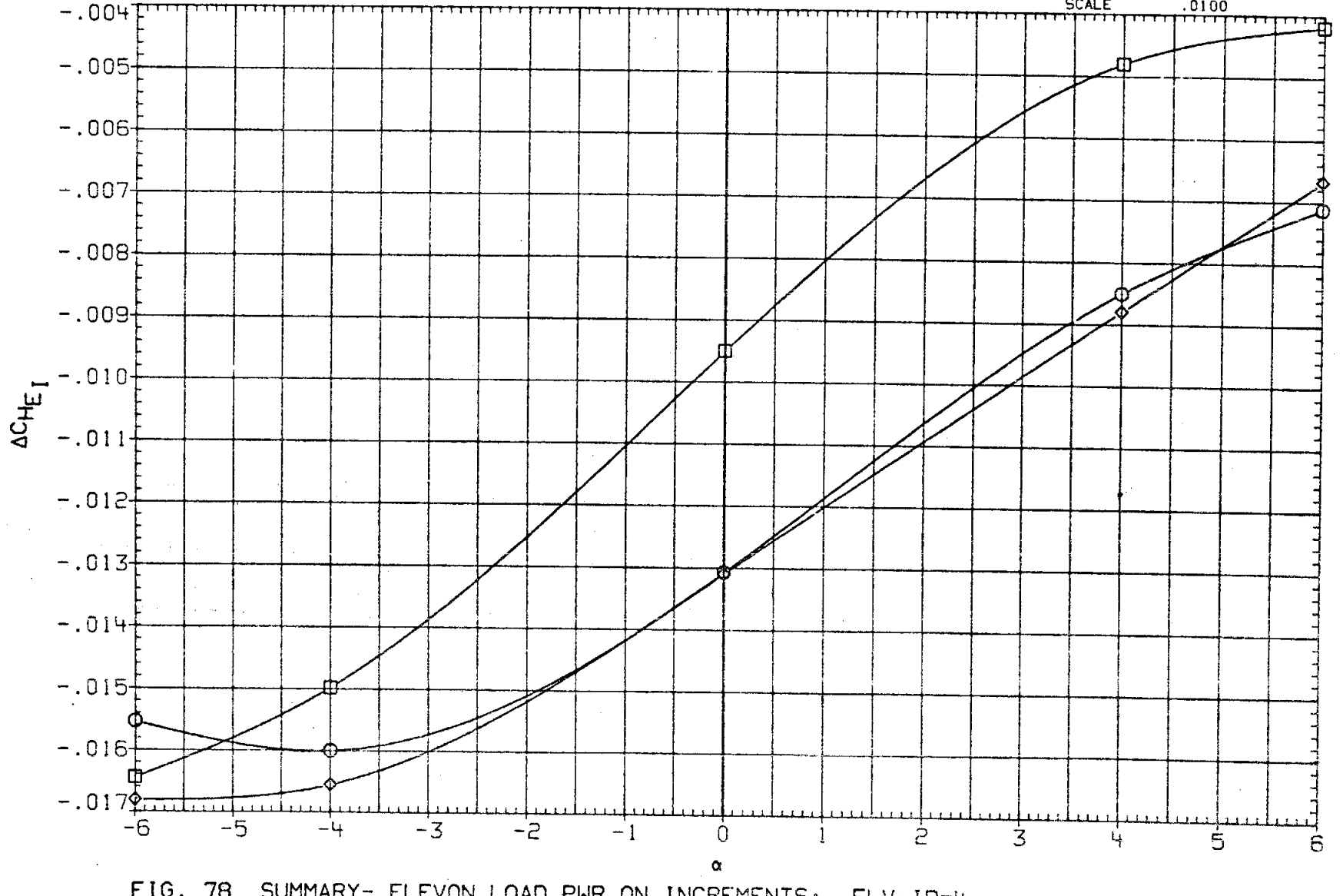

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00 DATE 17 OCT 78 PAGE 428

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	2.000	2.500	743.821	1312.481
C3D049	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.200	462.958	736.992
C3D050	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-2.000	2.500	748.805	1326.922

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

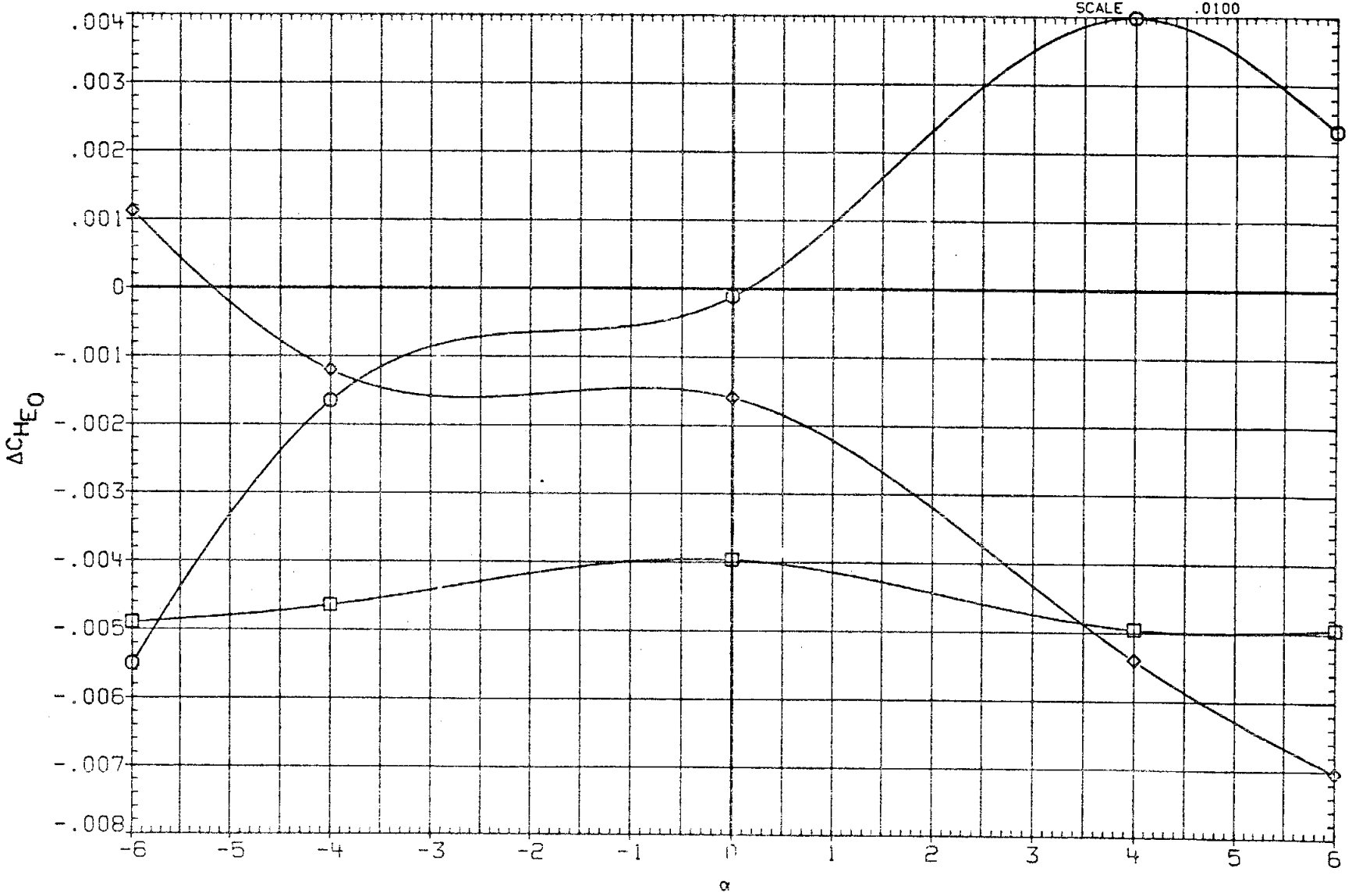

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

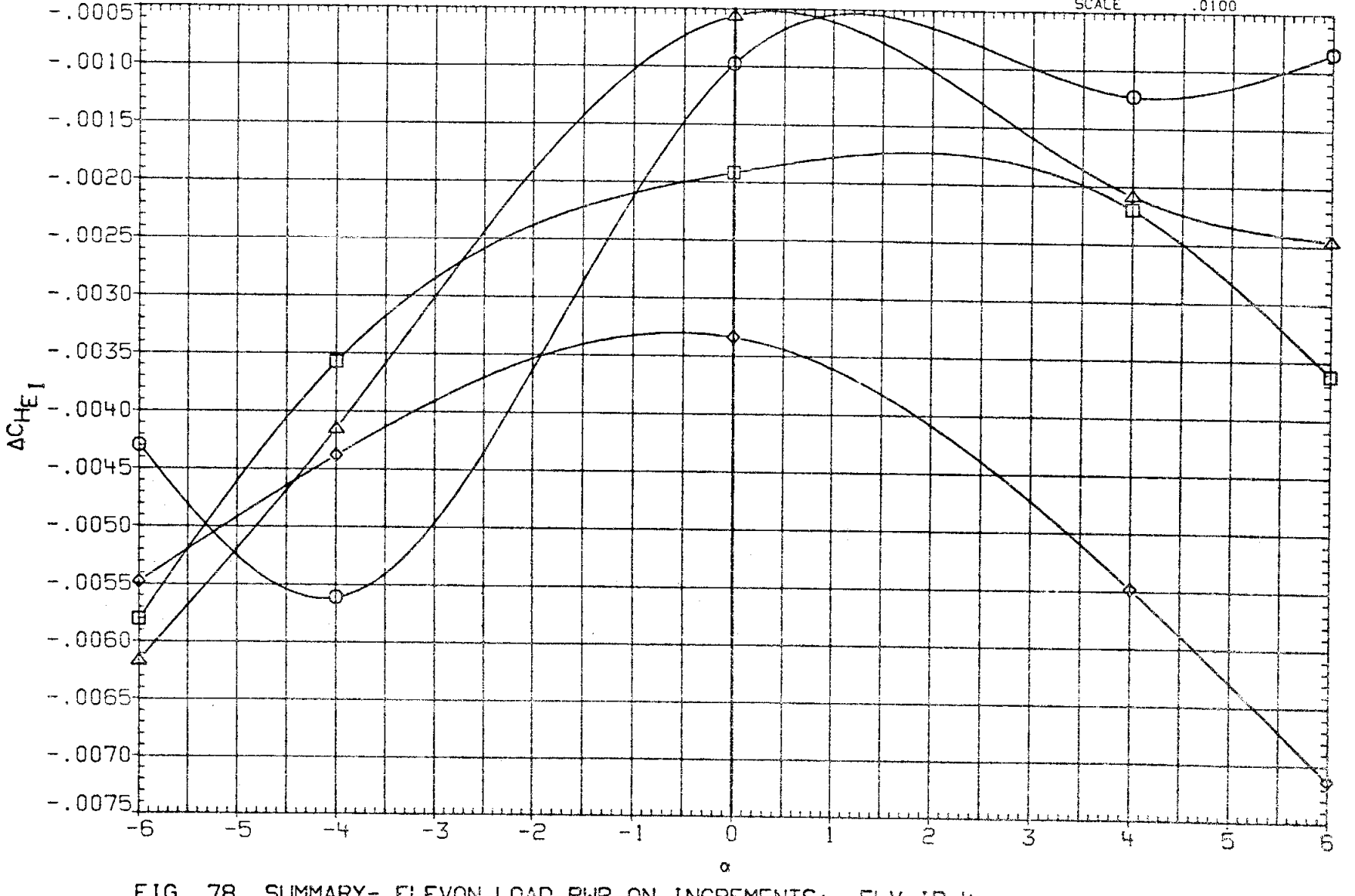

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

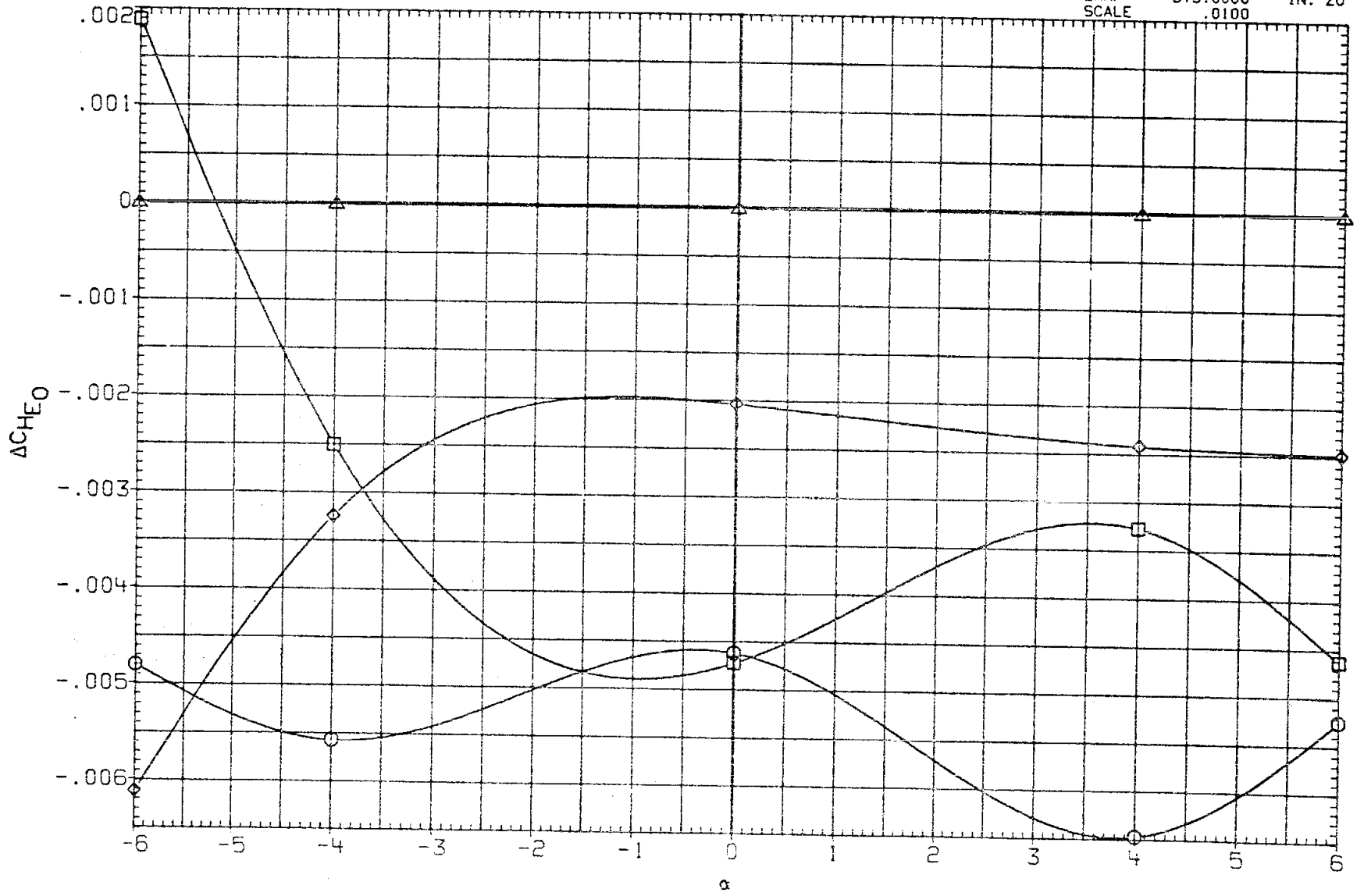

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

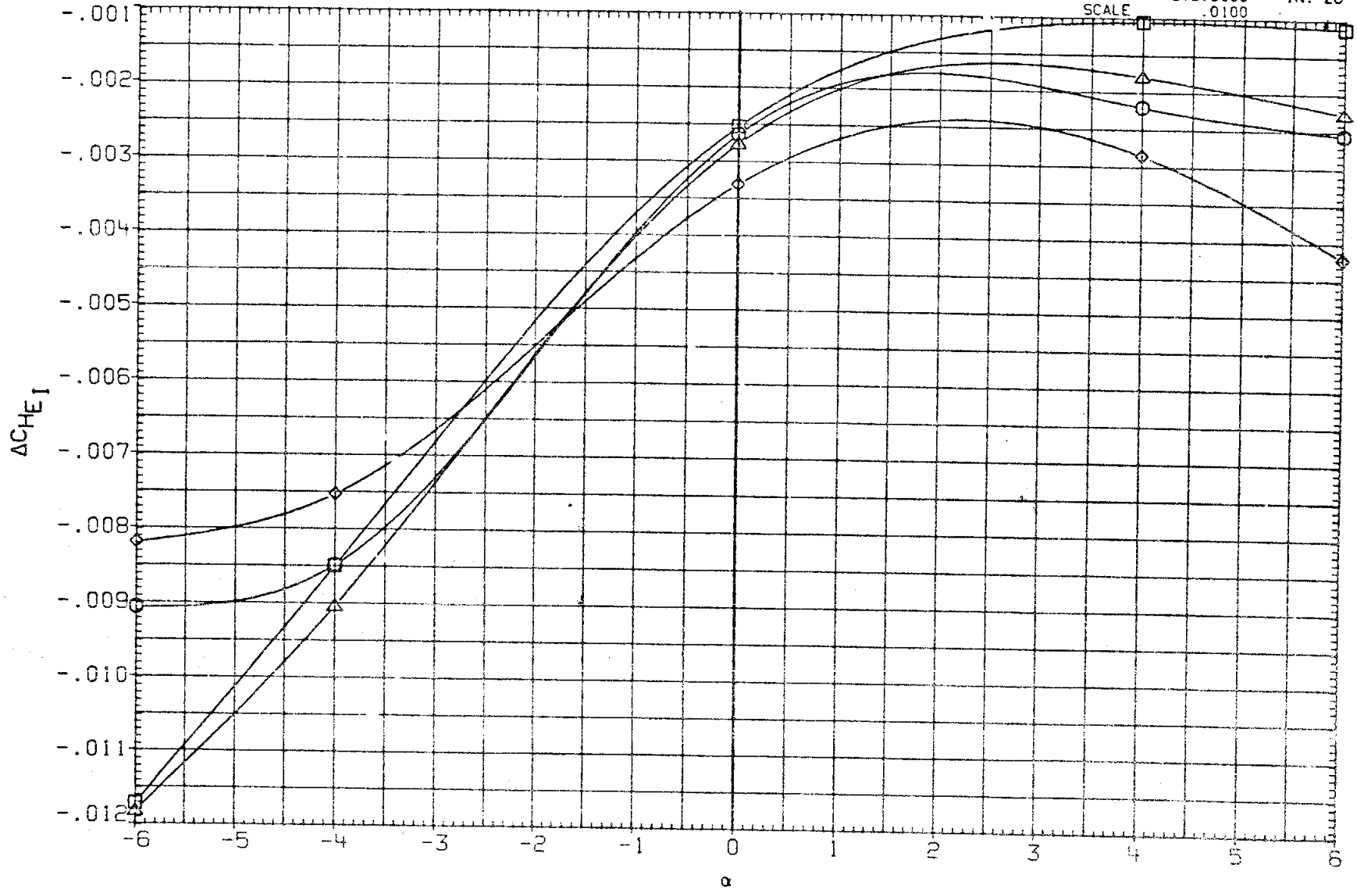

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

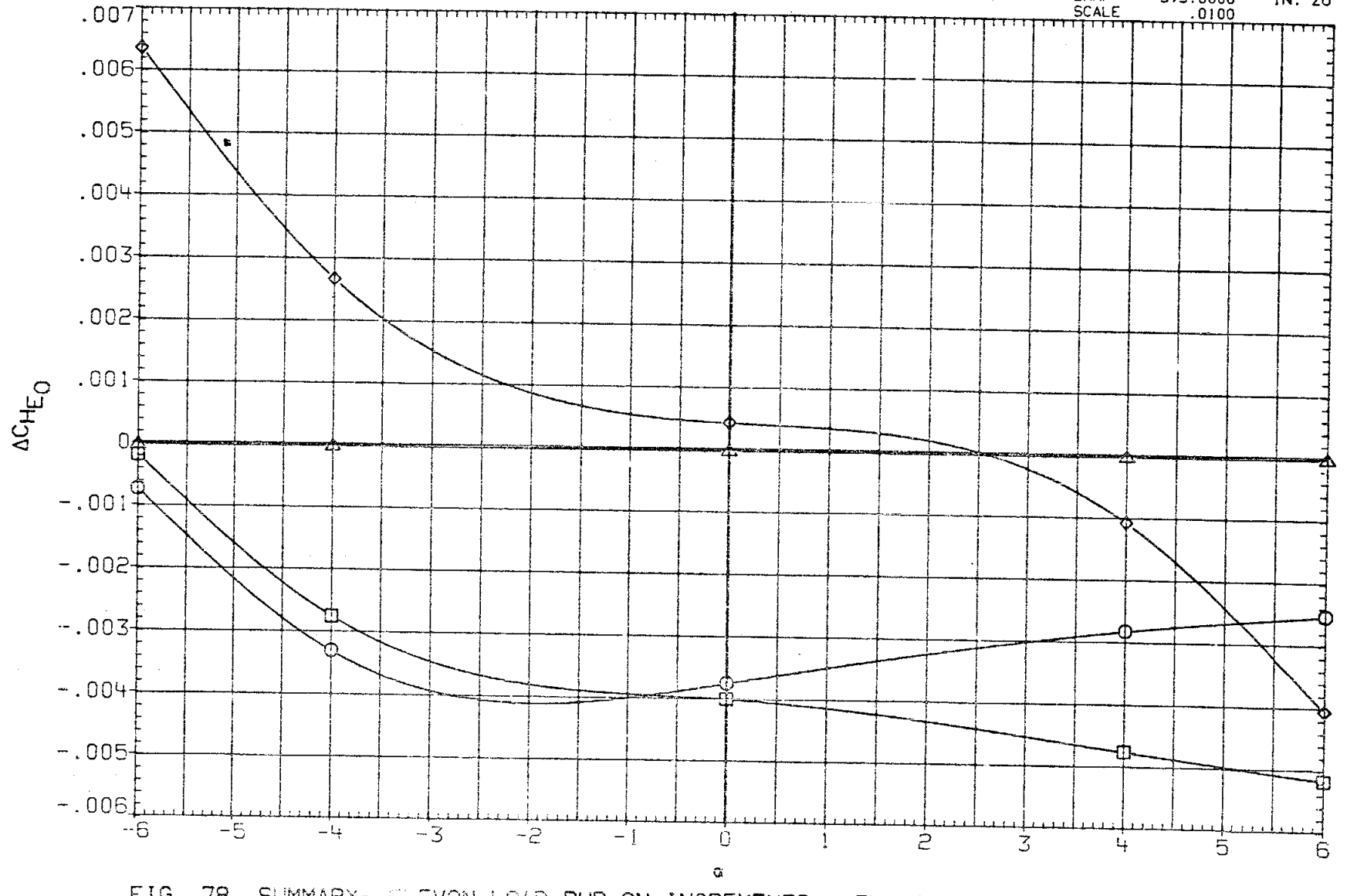

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

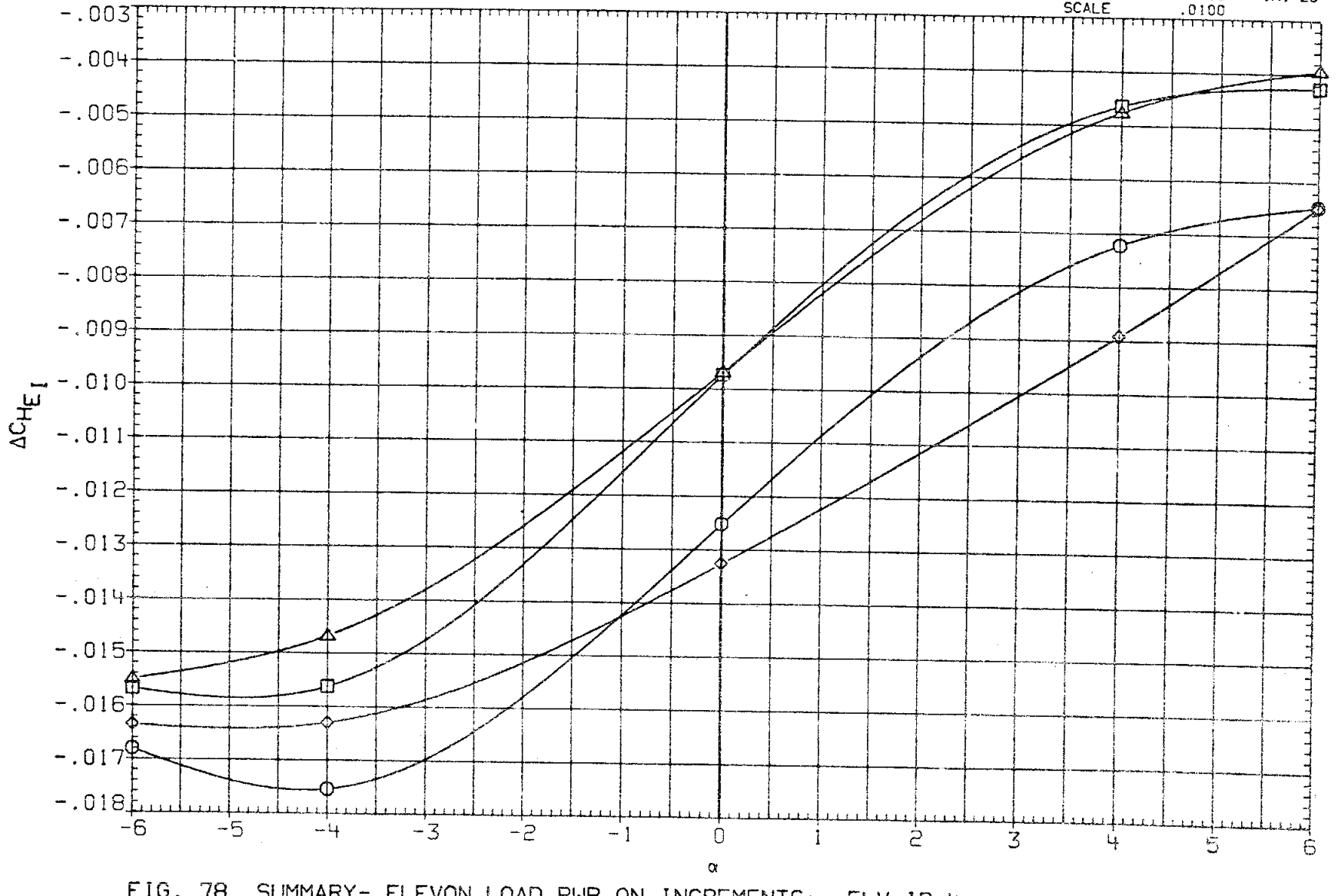

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D051	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	1.800	273.294	477.177
C3D052	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.200	464.163	739.259
C3D053	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-5.000	2.500	752.323	1319.085
C3D054	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	4.000	-7.000	2.200	462.607	735.810

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

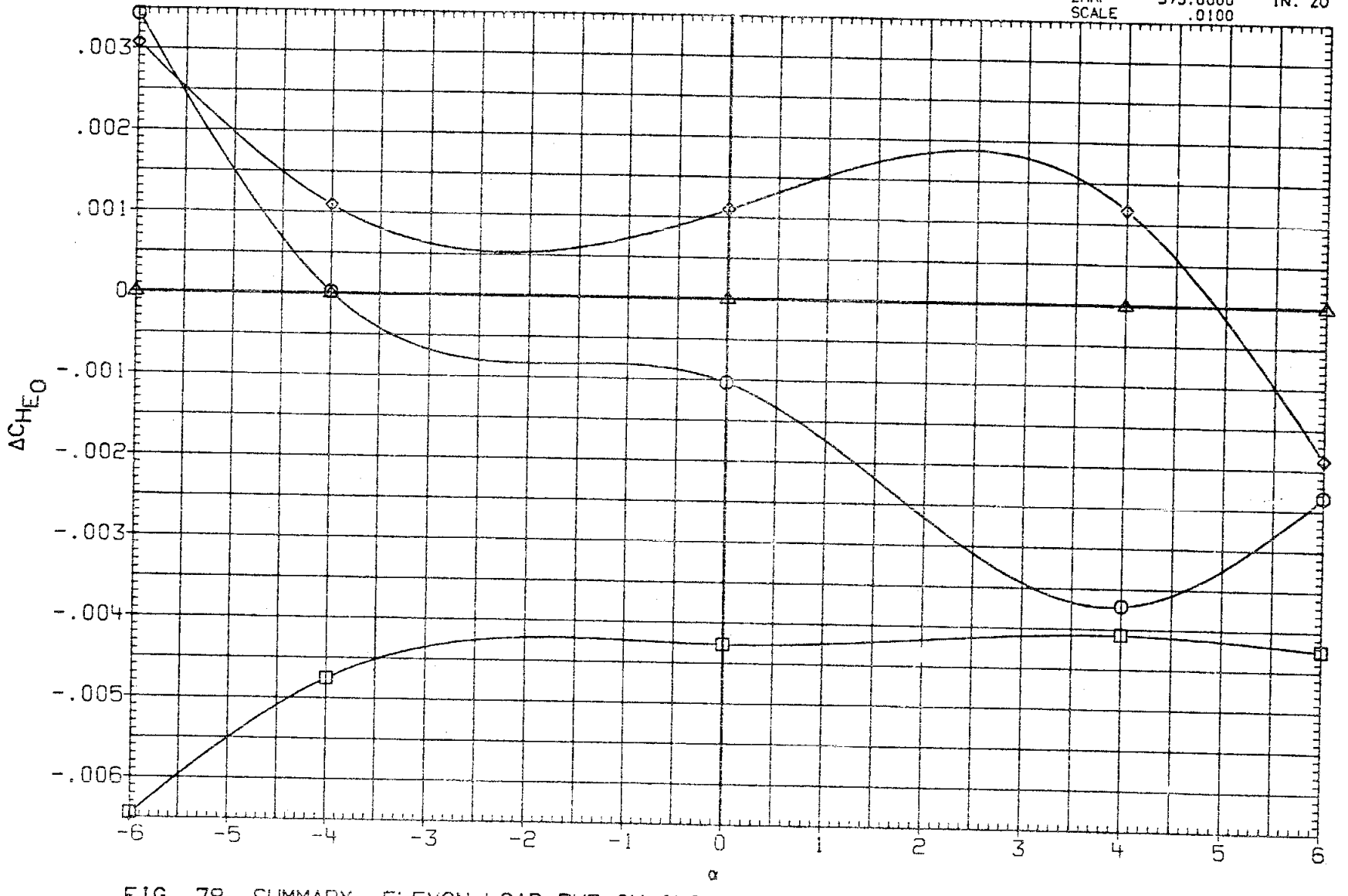

FIG. 78 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=4

(C)BETA = 4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D055	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

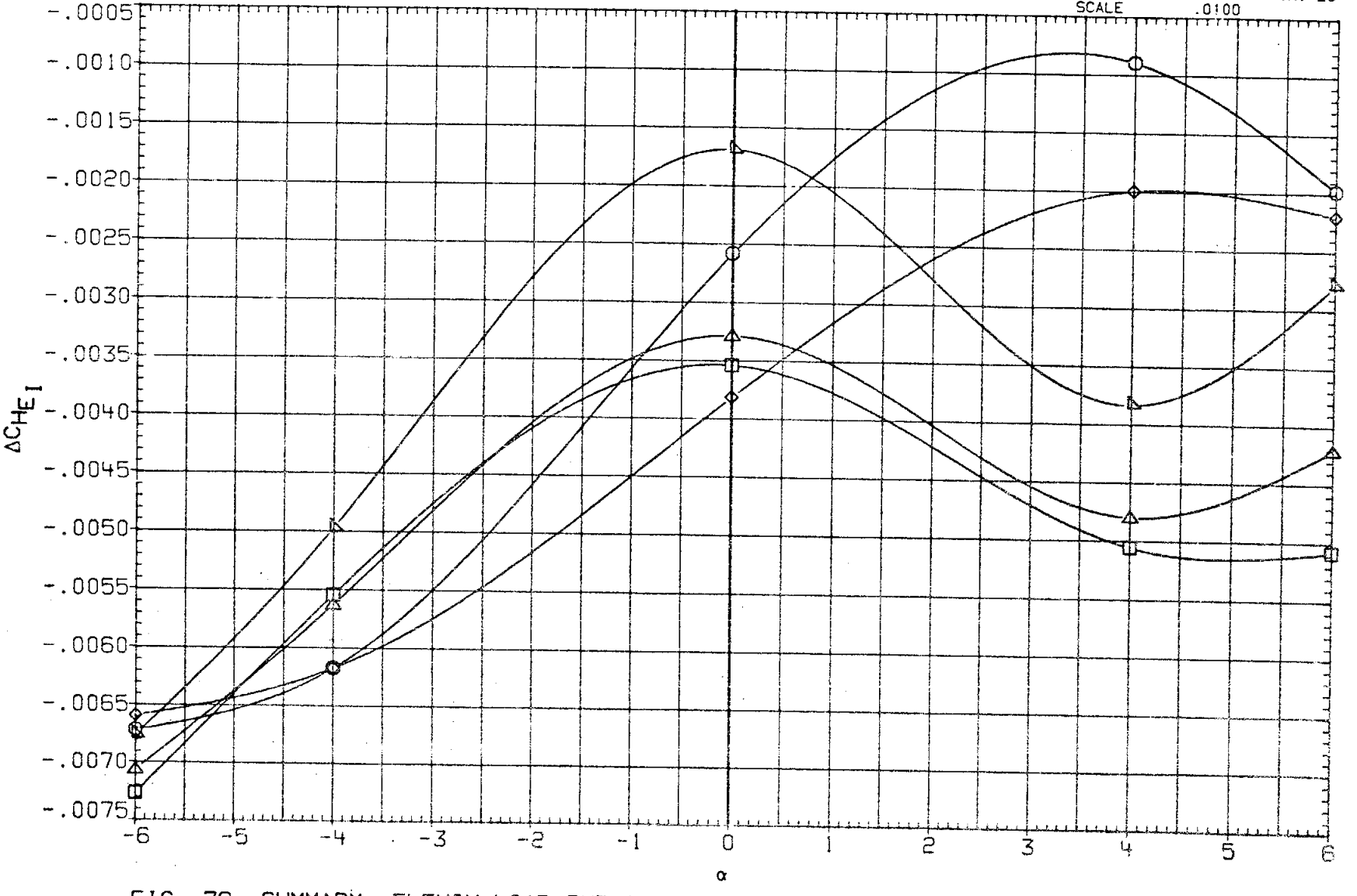

FIG. 79 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=0

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▷	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

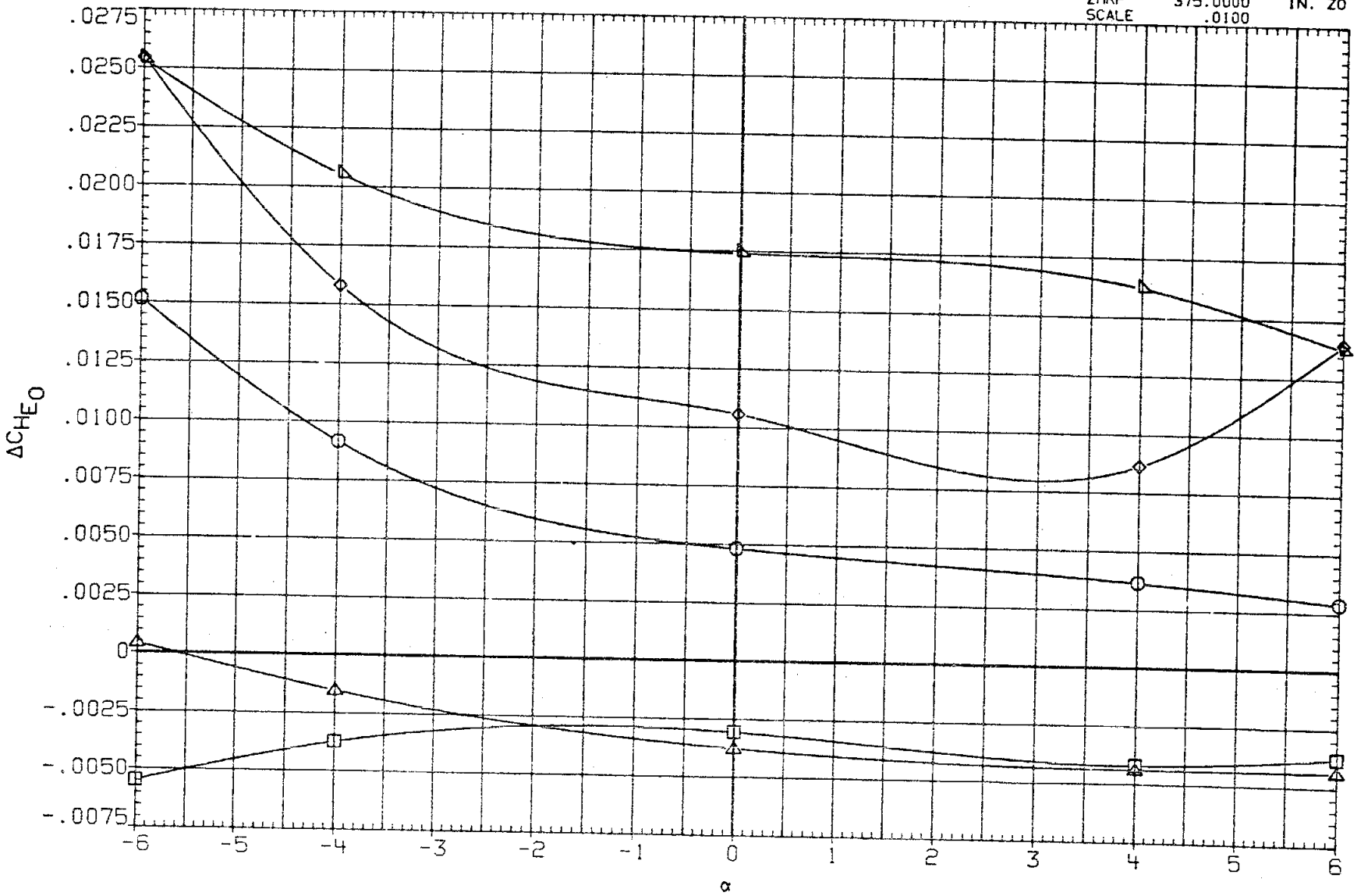

FIG. 79 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=0

(A)BETA = -4.00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-1B	ELV-0B	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.852	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

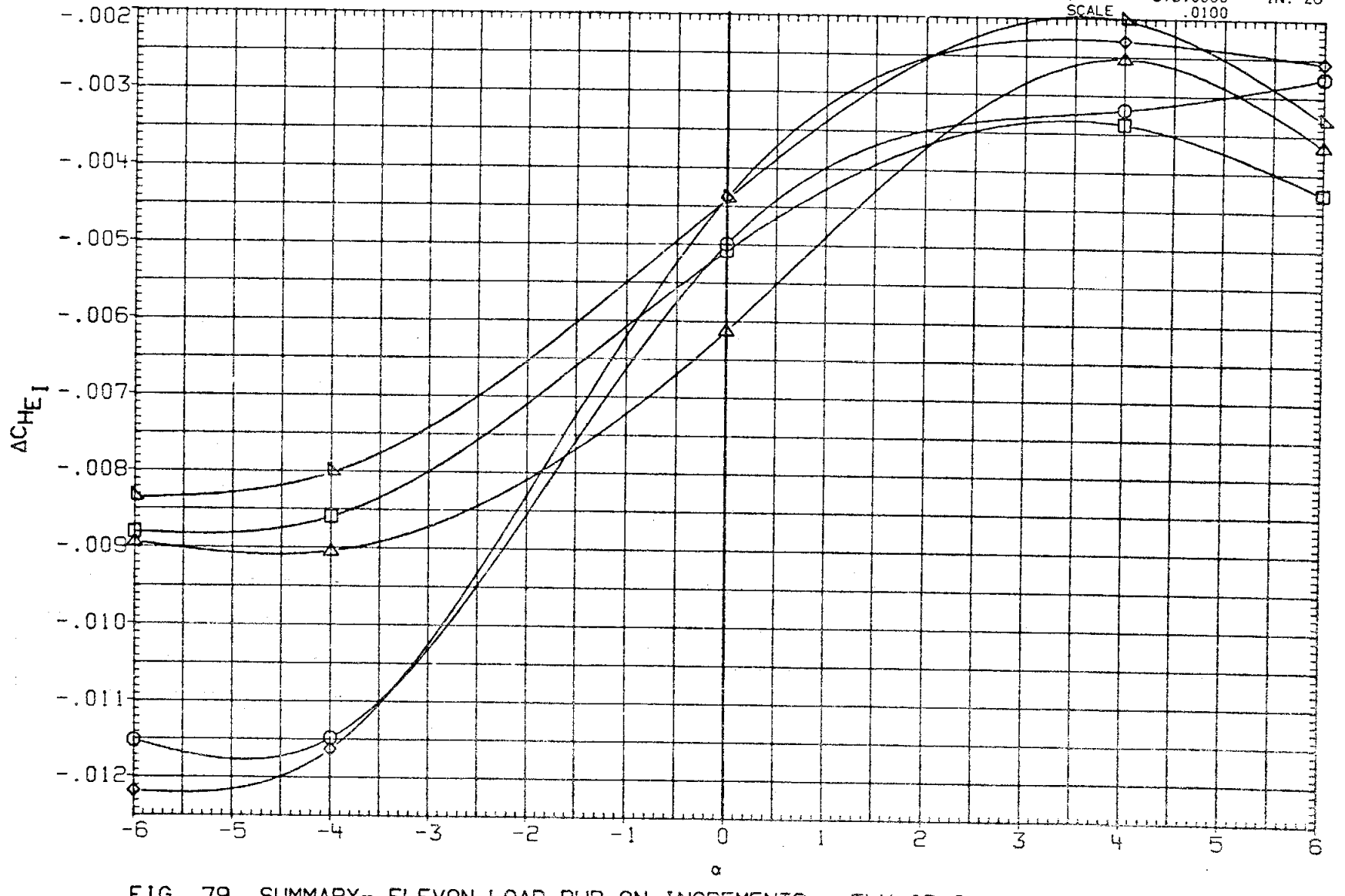

FIG. 79 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-1B=0

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.662	741.569
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	▽	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6600	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

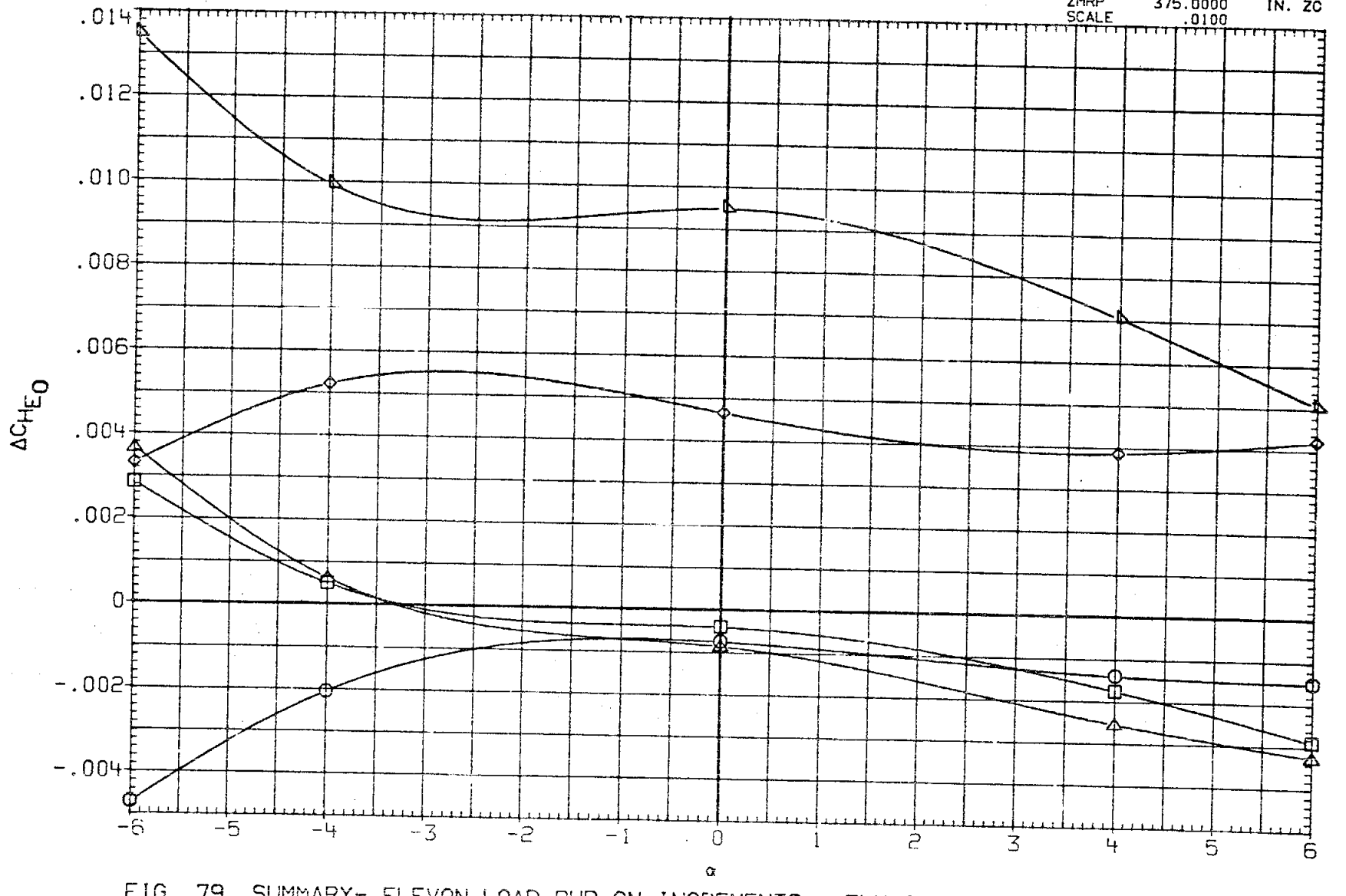

FIG. 79 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=0

(B)BETA = .00

DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SREF	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

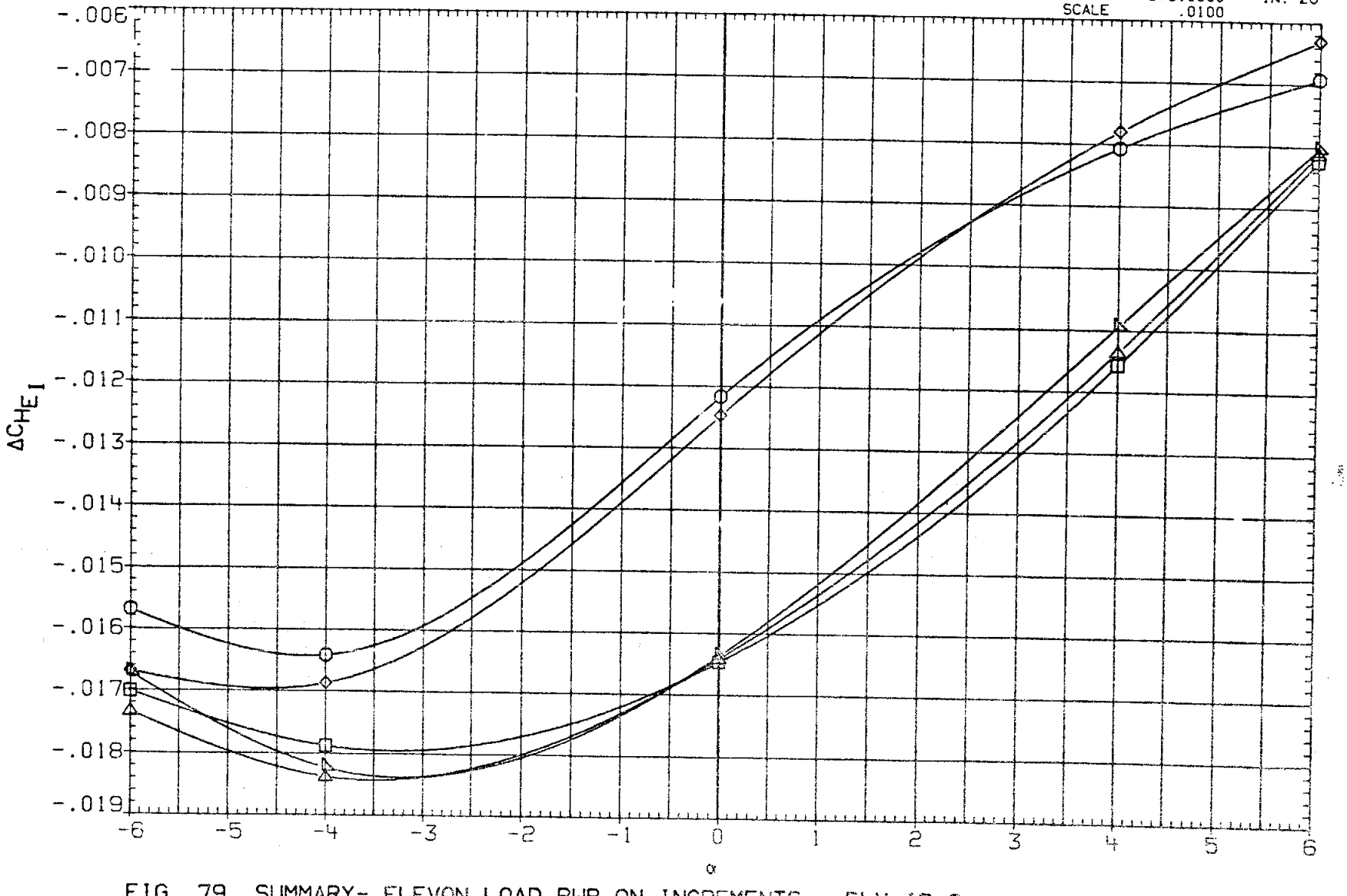

FIG. 79 SUMMARY- ELEVON LOAD PWR ON INCREMENTS: ELV-IB=0

(C)BETA = 4.00 DATE 17 OCT 78

DATA SET	SYMBOL	CONFIGURATION	ELV-IB	ELV-OB	MACH	SRBPR	SSMEPR
C3D056	○	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.200	460.159	740.665
C3D057	□	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-2.000	2.500	751.892	1322.416
C3D058	◇	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.200	462.862	741.568
C3D059	△	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	-5.000	2.500	748.275	1325.283
C3D060	◁	AMES 246-1-97 IA138 OTS (POWER ON - POWER OFF)	.000	2.000	2.500	753.115	1329.449

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

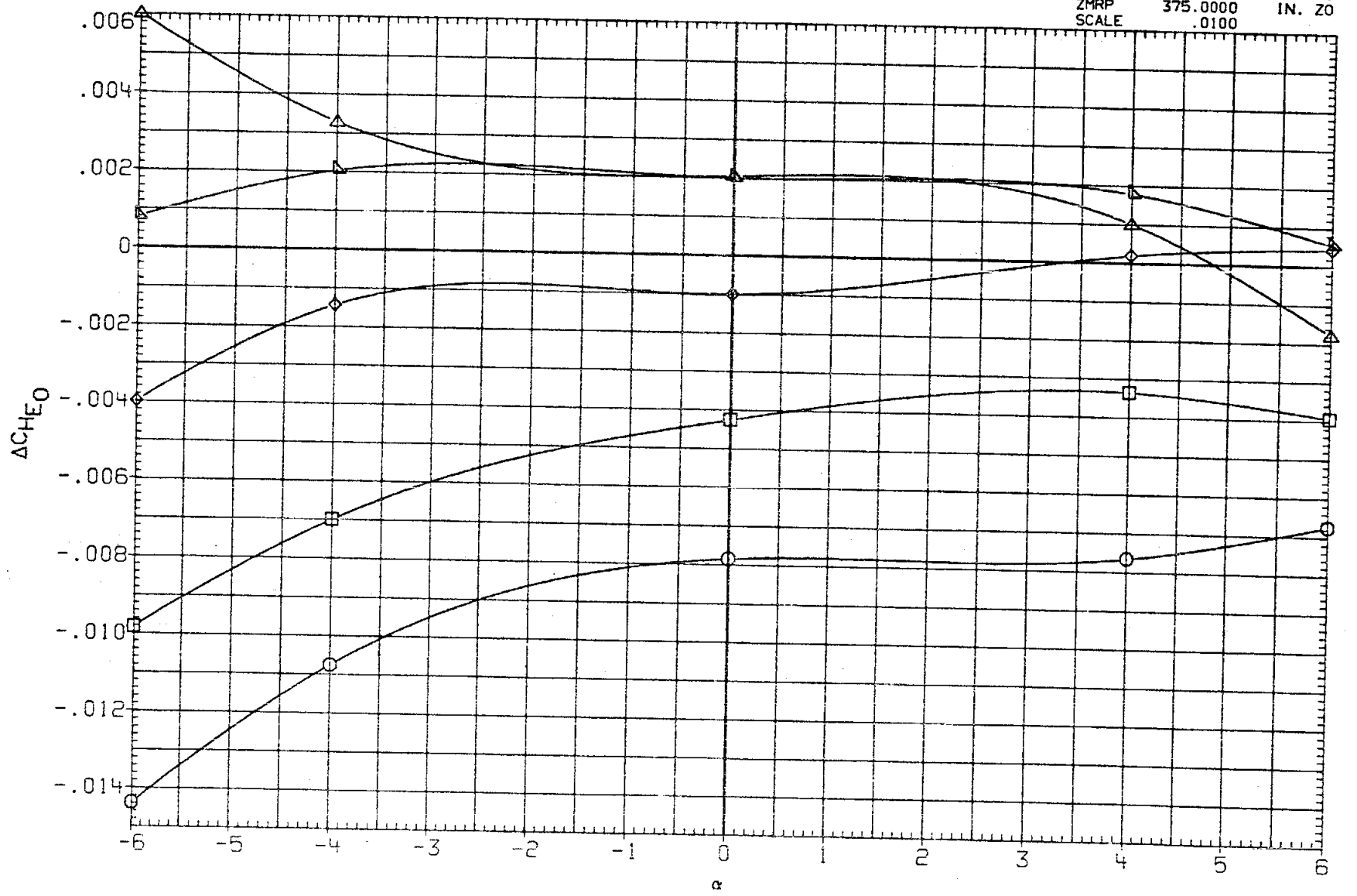

FIG. 79 SUMMARY - ELEVON LOAD PWR ON INCREMENTS: ELV-IB=0

(C)BETA = 4.00

DATE 17 OCT 78

CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	ALPHA	PARAMETRIC VALUES	
O	.000	ELV-IB	10.000
		ELV-OB	-2.000

DATASET	MACH
B3D031	1.550
B3D032	1.800
B3D033	2.200
B3D034	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

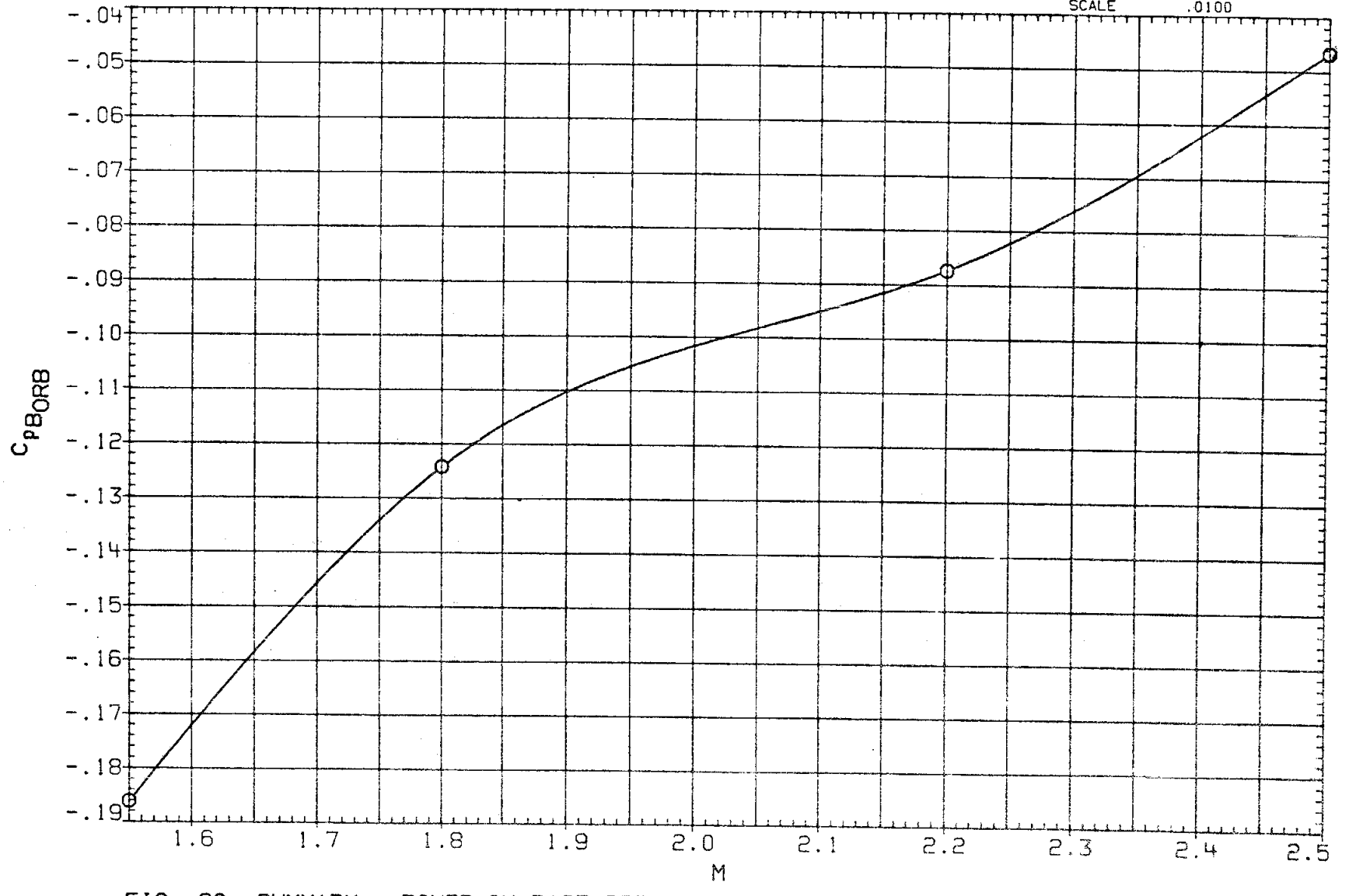

FIG. 80 SUMMARY- POWER ON BASE PRESSURES (IA138)

(A)BETA = .00

DATE 17 OCT 78

CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	ALPHA	PARAMETRIC VALUES	
O	.000	ELV-IB	10.000
		ELV-OB	-2.000

DATASET	MACH
B3D031	1.550
B3D032	1.800
B3D033	2.200
B3D034	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

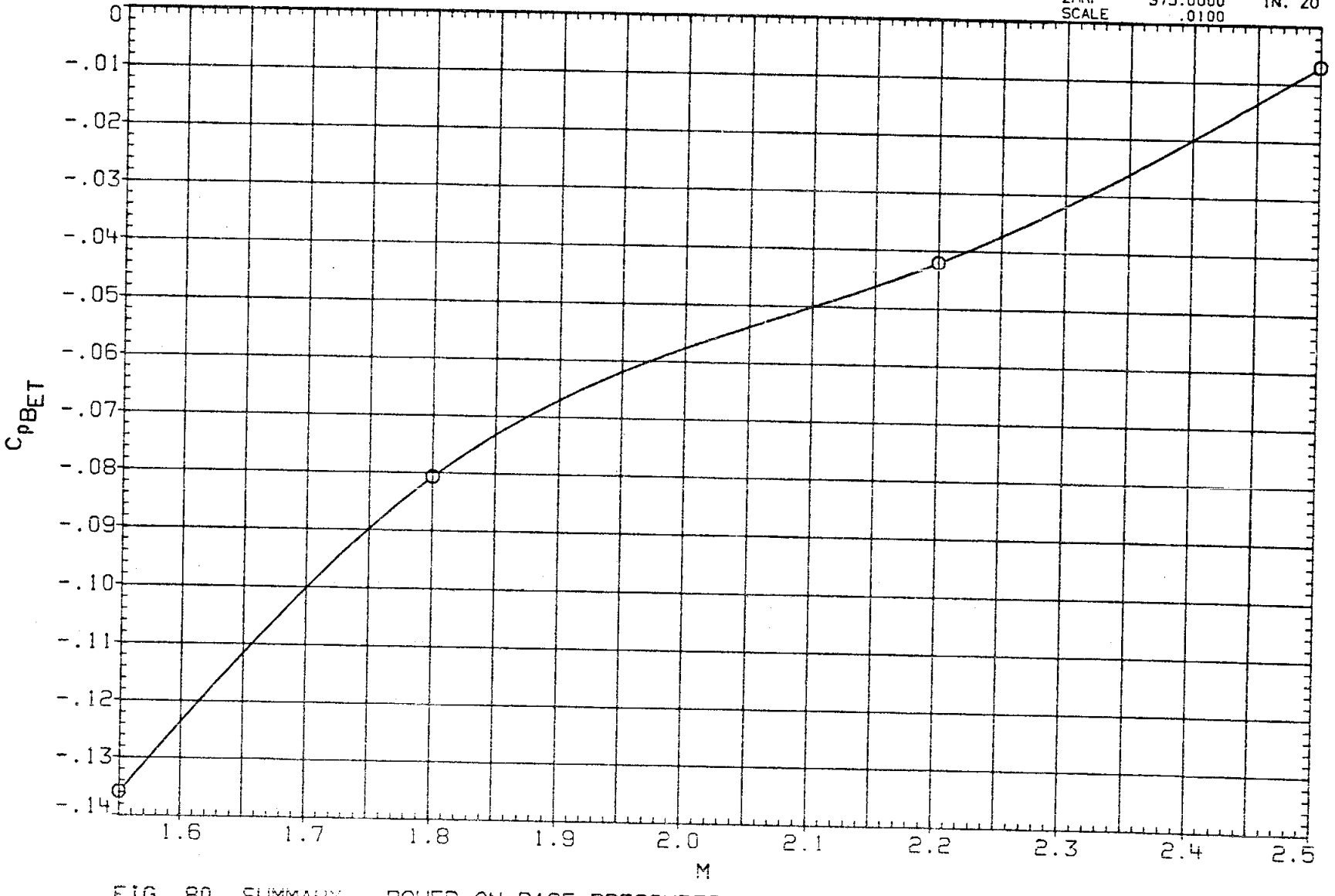

FIG. 80 SUMMARY- POWER ON BASE PRESSURES (IA138)

(A)BETA = .00

DATE 17 OCT 78

CONFIGURATION 1A138 AMES 246-1-97 OTS POWER ON

SYMBOL	ALPHA	PARAMETRIC VALUES	
O	.000	ELV-IB	10.000
		ELV-OB	-2.000

DATASET	MACH
B3D031	1.550
B3D032	1.800
B3D033	2.200
B3D034	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

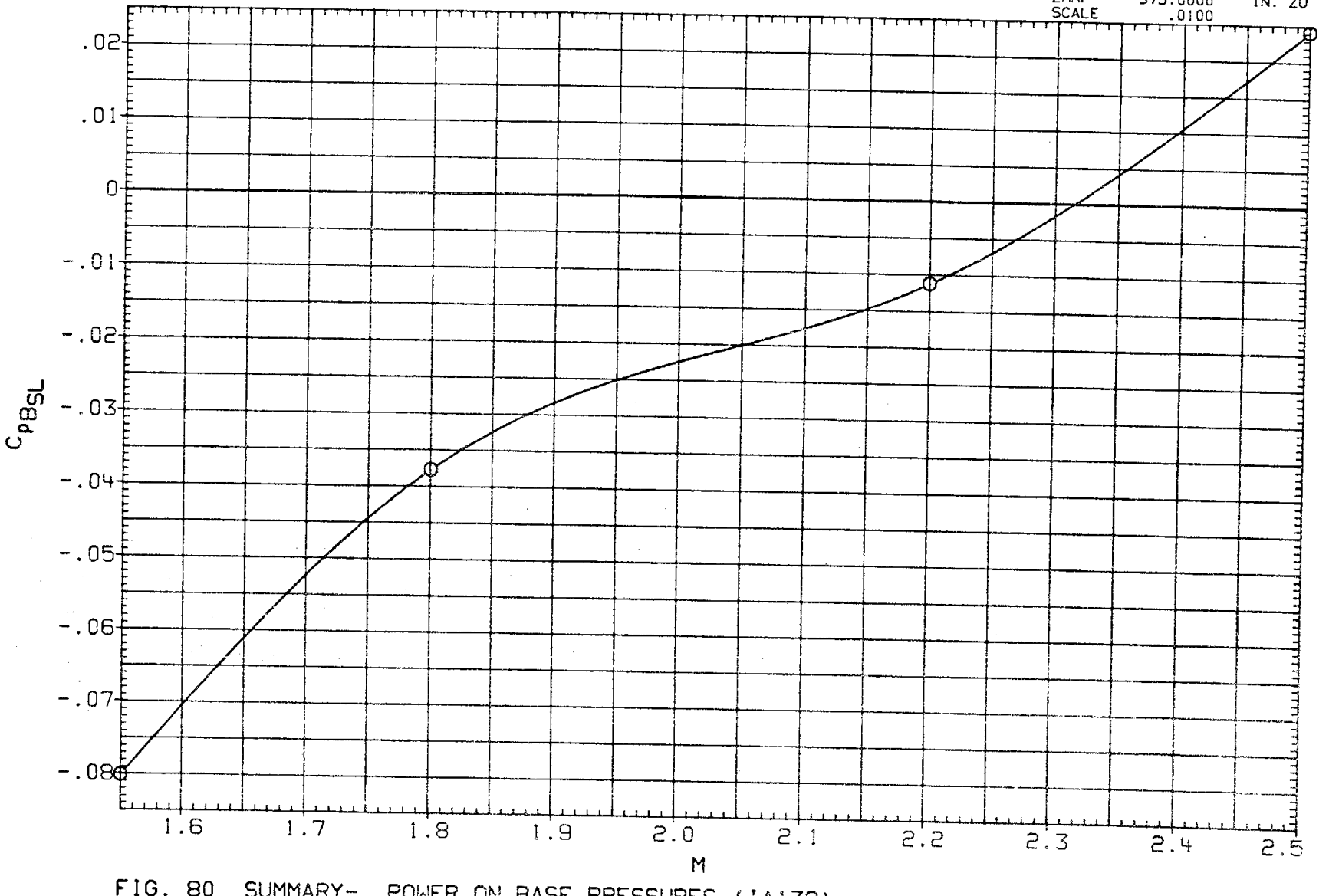

FIG. 80 SUMMARY- POWER ON BASE PRESSURES (1A138)

(A)BETA = .00

DATE 17 OCT 78

CONFIGURATION IA138 AMES 246-1-97 OTS POWER ON

SYMBOL	ALPHA	PARAMETRIC VALUES	
O	.000	ELV-IB	10.000
		ELV-OB	-2.000

DATASET	MACH
B3D031	1.550
B3D032	1.800
B3D033	2.200
B3D034	2.500

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8100	INCHES
BREF	936.6800	INCHES
XMRP	1076.6800	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0100	

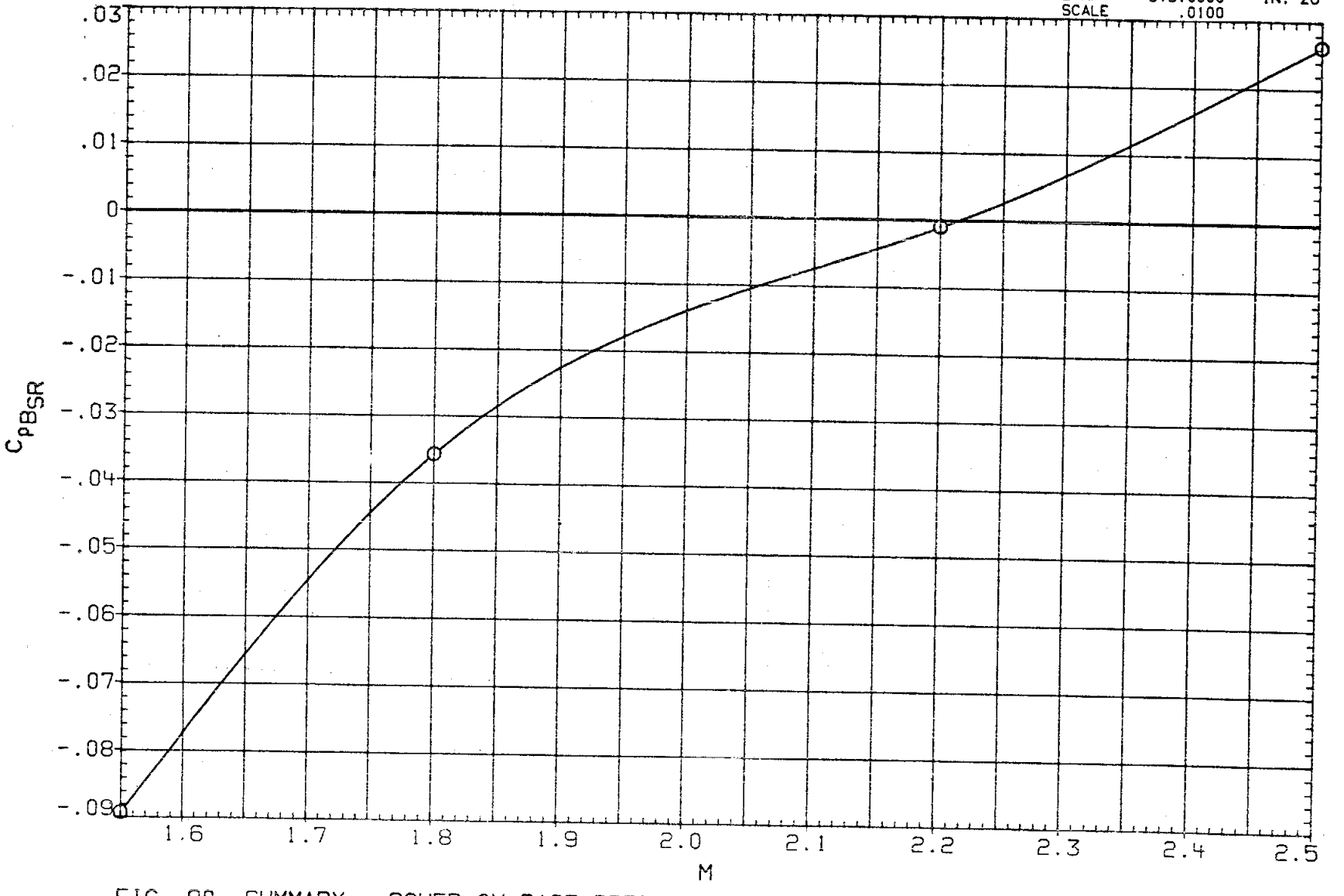

FIG. 80 SUMMARY- POWER ON BASE PRESSURES (IA138)

(A)BETA = .00

DATE 17 OCT 78

APPENDIX

Tabulated Source Data

FORCE AND MOMENT DATA - VOLUME I

PRESSURE DATA* - VOLUME III (MICROFICHE ONLY)

*Contains bad points - see Remarks Section of Report

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

IA138 AMES 246-1-97 OTS POWER OFF (R3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 31/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.101	-7.815	-.06860	-.01190	-.00930	.02010	.00750	-.28640	-.33930	-.34800	-.32620	909.46000
-4.092	-5.842	-.04940	-.00820	-.00850	.00830	-.00250	-.28740	-.33430	-.35070	-.31500	909.46000
-4.073	-3.857	-.02600	-.00390	-.00720	-.00240	-.00930	-.28920	-.32980	-.35610	-.30110	909.76000
-3.988	.039	.02480	.00520	-.00480	-.02180	-.01760	-.29560	-.31880	-.35790	-.29130	909.46000
-3.980	3.902	.07360	.01390	-.00140	-.03880	-.02060	-.29570	-.30690	-.35750	-.28490	909.76000
	GRADIENT	.01284	.00229	.00075	-.00469	-.00146	-.00084	.00295	-.00018	.00209	-.00011

RUN NO. 32/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.217	-7.784	-.04160	-.00710	-.00900	.02410	.02780	-.28040	-.33210	-.33730	-.33310	909.16000
-.192	-5.815	-.01740	-.00270	-.00750	.01620	.01610	-.28280	-.32190	-.32790	-.32640	909.46000
-.174	-3.808	.00900	.00190	-.00650	.00500	.00300	-.28110	-.30840	-.32960	-.33580	909.16000
-.219	.158	.06600	.01180	-.00320	-.01140	-.01100	-.28050	-.29690	-.33610	-.33140	909.16000
-.135	4.253	.12180	.02160	.00130	-.02780	-.01690	-.28150	-.28280	-.33350	-.32240	909.16000
	GRADIENT	.01399	.00244	.00097	-.00407	-.00246	-.00005	.00318	-.00048	.00167	-.00000

RUN NO. 33/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.632	-7.853	-.01120	-.00220	-.00800	.02770	.04130	-.27400	-.32880	-.33240	-.35060	909.16000
3.671	-5.874	.01580	.00270	-.00680	.02140	.03270	-.28180	-.31540	-.31530	-.35290	908.56000
3.676	-3.871	.04410	.00780	-.00550	.01430	.02220	-.29180	-.30450	-.30250	-.35890	909.16000
3.624	.053	.10230	.01810	-.00150	.00160	.00080	-.29070	-.28860	-.29380	-.35840	909.16000
3.633	3.908	.15200	.02610	.00510	-.00760	-.01170	-.28850	-.27160	-.28890	-.36290	908.86000
	GRADIENT	.01387	.00235	.00136	-.00282	-.00436	.00042	.00423	.00175	-.00051	-.03845

IA138 AMES 246-1-97 OTS POWER OFF (R3D002) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 43/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.082	-5.833	-.03640	-.00610	-.00890	-.02050	.00310	-.24610	-.27610	-.30230	-.25870	838.24000
-4.072	-3.879	-.01850	-.00290	-.00730	-.02720	-.00550	-.24820	-.27060	-.30980	-.24950	838.24000
-3.989	.021	.02030	.00350	-.00520	-.04330	-.02320	-.25210	-.26410	-.30330	-.24980	838.24000
-3.982	3.883	.06020	.01030	-.00230	-.06050	-.03130	-.26210	-.25830	-.30750	-.25080	838.52000
-4.006	5.880	.07840	.01370	-.00140	-.06850	-.02800	-.26550	-.25120	-.31460	-.25780	838.24000
	GRADIENT	.01014	.00170	.00064	-.00429	-.00333	-.00179	.00158	.00030	-.00017	.03602

RUN NO. 42/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.190	-5.839	-.01010	-.00220	-.00730	-.01040	.00620	-.23520	-.26670	-.28500	-.28390	838.52000
-.173	-3.829	.00900	.00120	-.00620	-.01830	-.00210	-.23630	-.25980	-.29680	-.28890	838.52000
-.161	.132	.05430	.00880	-.00410	-.03600	-.01310	-.24350	-.25110	-.29180	-.29060	838.52000
-.108	4.234	.10220	.01680	-.00100	-.04680	-.02950	-.25430	-.23890	-.29030	-.28620	838.52000
-.094	6.226	.12150	.02030	-.00010	-.05500	-.03410	-.26180	-.23540	-.29560	-.29380	838.24000
	GRADIENT	.01156	.00193	.00065	-.00353	-.00340	-.00223	.00259	.00080	.00034	-.00000

RUN NO. 41/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.710	-5.890	.01640	.00160	-.00570	.00520	.01250	-.24340	-.25990	-.26190	-.30710	838.80000
3.715	-3.888	.04220	.00580	-.00400	.00110	.00560	-.24170	-.25030	-.25220	-.30730	838.52000
3.663	.039	.08980	.01390	-.00190	-.01670	-.00850	-.24730	-.23630	-.24920	-.30830	838.24000
3.673	3.887	.13430	.02170	.00110	-.02880	-.01880	-.25600	-.22980	-.25110	-.30710	838.24000
3.703	5.861	.15200	.02500	.00230	-.03220	-.02410	-.25920	-.22430	-.25620	-.31120	838.80000
	GRADIENT	.01185	.00205	.00066	-.00385	-.00314	-.00184	.00264	.00014	.00002	-.03614

IA138 AMES 246-1-97 OTS POWER OFF (R30003) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 49/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.080	-5.344	-.01640	-.00330	-.00540	-.04750	-.01930	-.19550	-.21410	-.25270	-.22730	674.73000
-4.064	-3.360	-.00340	-.00110	-.00420	-.05620	-.02740	-.19650	-.20460	-.24880	-.22610	674.50000
-3.965	.543	.02690	.00380	-.00220	-.07380	-.03860	-.20450	-.19260	-.24730	-.23810	674.73000
-3.970	4.407	.05650	.00870	-.00040	-.08300	-.04380	-.20970	-.18040	-.23900	-.23660	674.73000
-3.989	6.403	.06880	.01090	-.00020	-.09080	-.04180	-.20800	-.17840	-.24090	-.23270	674.73000
	GRADIENT	.00771	.00126	.00049	-.00345	-.00211	-.00170	.00312	.00126	-.00135	.02966

RUN NO. 48/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.177	-5.316	.00260	-.00070	-.00450	-.02930	-.01420	-.18830	-.20480	-.24850	-.24730	674.50000
-.161	-3.308	.01940	.00190	-.00300	-.03680	-.02290	-.19170	-.19760	-.24730	-.24710	674.73000
-.151	.661	.05230	.00730	-.00180	-.05540	-.03540	-.20610	-.18860	-.24650	-.24730	674.73000
-.097	4.759	.08590	.01310	-.00110	-.06720	-.04280	-.20960	-.17930	-.23910	-.24050	674.73000
-.083	6.750	.10220	.01590	-.00050	-.07190	-.04150	-.20820	-.17550	-.23670	-.23820	674.95000
	GRADIENT	.00824	.00139	.00024	-.00376	-.00246	-.00221	.00227	.00102	.00082	.00000

RUN NO. 47/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.727	-5.371	.02840	.00210	-.00180	-.00460	-.01480	-.19140	-.20360	-.23080	-.25270	674.73000
3.731	-3.366	.04110	.00440	-.00200	-.01340	-.02030	-.19400	-.19760	-.22940	-.25030	674.73000
3.681	.562	.07320	.01020	-.00210	-.03350	-.03040	-.20280	-.18350	-.23740	-.24740	674.73000
3.684	4.407	.11100	.01650	.00030	-.04980	-.03580	-.20670	-.17200	-.23280	-.24130	674.95000
3.712	6.388	.12590	.01950	.00010	-.05110	-.03230	-.20630	-.16630	-.22950	-.23960	674.73000
	GRADIENT	.00899	.00156	.00029	-.00468	-.00200	-.00164	.00329	-.00044	.00116	.02820

IA138 AMES 246-1-97 OTS POWER OFF (R3D004) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 50/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.024	-6.085	-.00960	-.00250	-.00400	-.05370	-.02820	-.16300	-.17730	-.20510	-.19310	562.24000
-4.011	-4.102	-.00050	-.00100	-.00300	-.06170	-.03580	-.16570	-.17010	-.20140	-.19220	549.70000
-3.918	-.196	.02080	.00240	-.00120	-.07720	-.04490	-.17120	-.16150	-.20000	-.19720	545.15000
-3.926	3.662	.04150	.00590	-.00030	-.09160	-.04690	-.17740	-.14910	-.19530	-.19490	544.79000
-3.946	5.656	.05120	.00760	-.00010	-.09480	-.04470	-.17870	-.14730	-.19500	-.19230	545.51000
	GRADIENT	.00541	.00089	.00035	-.00385	-.00143	-.00151	.00270	.00078	-.00035	-.63353

RUN NO. 51/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.129	-6.060	.00850	-.00050	-.00260	-.03110	-.02720	-.16350	-.17150	-.20410	-.20540	545.70000
-.112	-4.050	.01830	.00110	-.00200	-.03930	-.03450	-.16560	-.16700	-.19910	-.20120	545.70000
-.103	-.081	.03720	.00450	-.00170	-.05590	-.04510	-.17350	-.15940	-.19860	-.20120	545.70000
-.048	4.017	.06220	.00890	-.00160	-.06990	-.04780	-.17820	-.14820	-.19640	-.19820	545.70000
-.035	6.007	.07540	.01110	-.00110	-.07400	-.04520	-.17760	-.14640	-.20000	-.20150	545.70000
	GRADIENT	.00545	.00097	.00005	-.00379	-.00164	-.00156	.00233	.00034	.00037	-.00000

RUN NO. 52/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.772	-6.116	.01880	.00070	-.00360	-.00650	-.02570	-.15950	-.17010	-.19640	-.20410	545.88000
3.779	-4.112	.02800	.00220	-.00310	-.01250	-.03230	-.16360	-.16790	-.19760	-.20450	545.70000
3.730	-.181	.05270	.00630	-.00190	-.02970	-.03940	-.17000	-.15980	-.19830	-.20280	545.70000
3.734	3.666	.08290	.01160	-.00110	-.04530	-.04580	-.17420	-.14790	-.19520	-.19930	545.70000
3.763	5.642	.09890	.01450	-.00040	-.05200	-.04370	-.17820	-.14460	-.19420	-.20060	545.51000
	GRADIENT	.00706	.00121	.00026	-.00422	-.00174	-.00136	.00257	.00031	.00067	.00006

IA138 AMES 246-1-97 OTS POWER OFF (R3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 58/ 0 RN/L = 3.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.080	-5.831	-.03850	-.00700	-.00640	-.02000	.00070	-.23880	-.27030	-.29460	-.25540	842.99000
-4.073	-3.878	-.02340	-.00420	-.00570	-.02730	-.00530	-.24180	-.26440	-.30320	-.24710	843.27000
-3.992	.025	.01530	.00240	-.00390	-.04640	-.02190	-.24630	-.25890	-.30000	-.24790	842.71000
-3.986	3.888	.05680	.00950	-.00100	-.06450	-.03120	-.25510	-.25250	-.30150	-.24620	842.99000
-4.005	5.884	.07600	.01290	-.00010	-.07300	-.02900	-.25950	-.24850	-.31120	-.25300	842.99000
	GRADIENT	.01033	.00176	.00060	-.00479	-.00334	-.00171	.00153	.00022	.00012	-.03624

RUN NO. 59/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.209	-6.221	-.02190	-.00430	-.00710	-.01050	.01670	-.22940	-.26360	-.28110	-.28250	842.71000
-.215	-4.281	-.00390	-.00100	-.00610	-.01900	.00580	-.23020	-.25460	-.28970	-.28210	842.43000
-.199	-.249	.04240	.00670	-.00360	-.03650	-.00990	-.23750	-.24630	-.28860	-.28700	842.99000
-.171	3.789	.09130	.01480	-.00010	-.04970	-.02530	-.24710	-.23730	-.28740	-.28350	842.71000
-.155	5.801	.11350	.01870	.00090	-.05830	-.03100	-.25500	-.23200	-.28850	-.28710	842.71000
	GRADIENT	.01180	.00196	.00074	-.00380	-.00385	-.00209	.00214	.00028	-.00017	.03467

RUN NO. 60/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.893	-6.217	.00530	-.00020	-.00550	.00480	.02320	-.23190	-.25510	-.25980	-.30240	842.71000
3.988	-4.244	.02940	.00380	-.00400	-.00240	.01450	-.23620	-.24590	-.24760	-.30690	842.99000
4.103	-.036	.08610	.01330	-.00110	-.01820	-.00280	-.24480	-.23490	-.24160	-.30920	842.99000
4.018	4.143	.13470	.02150	.00270	-.03200	-.01580	-.25080	-.22410	-.24290	-.30560	842.71000
3.984	6.172	.14830	.02440	.00320	-.03640	-.02070	-.25360	-.21950	-.25040	-.31130	842.99000
	GRADIENT	.01256	.00211	.00080	-.00353	-.00361	-.00174	.00260	.00056	.00015	-.03335

IA138 AMES 246-1-97 OTS POWER OFF (R3D006) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 69/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.073	-5.309	-.02030	-.00390	-.00520	-.05470	-.00830	-.19670	-.21310	-.25180	-.22810	678.10000
-4.062	-3.357	-.00650	-.00160	-.00370	-.06390	-.02020	-.19800	-.20490	-.24850	-.22770	678.33000
-3.977	.544	.02260	.00330	-.00210	-.08120	-.03320	-.20510	-.19230	-.24630	-.23780	678.10000
-3.970	4.412	.05220	.00810	-.00030	-.09040	-.03940	-.20840	-.17850	-.23700	-.23490	678.10000
-3.988	6.404	.06560	.01040	.00010	-.09770	-.03840	-.20630	-.17690	-.23970	-.23160	678.33000
	GRADIENT	.00756	.00125	.00044	-.00341	-.00247	-.00134	.00340	.00148	-.00093	-.02965

RUN NO. 68/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.200	-5.699	-.00470	-.00180	-.00460	-.03300	-.00660	-.18870	-.20520	-.24770	-.24720	678.10000
-.205	-3.761	.01380	.00080	-.00200	-.04170	-.01780	-.19270	-.20070	-.24950	-.24850	678.10000
-.188	.276	.04470	.00620	-.00160	-.06110	-.02950	-.20480	-.18880	-.24540	-.24620	678.33000
-.160	4.311	.07800	.01180	-.00070	-.07310	-.03930	-.21310	-.18100	-.24000	-.24150	678.33000
-.143	6.320	.09530	.01460	.00010	-.07750	-.03760	-.20980	-.17600	-.23600	-.23750	678.55000
	GRADIENT	.00795	.00136	.00016	-.00389	-.00266	-.00253	.00244	.00118	.00087	.02850

RUN NO. 67/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.900	-5.695	.02240	.00110	-.00160	-.00530	-.00840	-.18900	-.20270	-.22920	-.25170	678.33000
3.994	-3.720	.03400	.00320	-.00170	-.01510	-.01400	-.19220	-.19760	-.22840	-.25020	678.33000
4.111	.484	.07190	.00990	-.00200	-.03750	-.02530	-.20040	-.18090	-.23550	-.24600	678.33000
4.022	4.663	.10370	.01630	.00060	-.05650	-.03270	-.20440	-.17060	-.23140	-.24000	678.10000
3.989	6.696	.12410	.01940	.00020	-.05690	-.03100	-.20390	-.16440	-.22640	-.23920	678.33000
	GRADIENT	.00903	.00156	.00027	-.00494	-.00223	-.00146	.00322	-.00036	.00122	-.02741

IA138 AMES 246-1-97 OTS POWER OFF (R3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 70/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.018	-6.052	-.01250	-.00290	-.00330	-.06080	-.02760	-.16730	-.17390	-.20170	-.19110	547.51000
-4.011	-4.100	-.00270	-.00140	-.00210	-.06880	-.03410	-.17060	-.16820	-.19960	-.19140	547.51000
-3.929	-.200	.01760	.00200	-.00090	-.08450	-.04130	-.17090	-.15650	-.19510	-.19290	550.06000
-3.925	3.668	.03880	.00560	.00010	-.09960	-.04470	-.17660	-.14660	-.19260	-.19290	548.42000
-3.947	5.660	.04780	.00720	.00020	-.10290	-.04140	-.17790	-.14690	-.19400	-.19190	548.97000
	GRADIENT	.00534	.00090	.00028	-.00395	-.00137	-.00077	.00278	.00090	-.00019	.11792

RUN NO. 71/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.150	-6.442	.00260	-.00130	-.00230	-.03540	-.02260	-.16630	-.17180	-.20380	-.20520	548.97000
-.156	-4.504	.01230	.00020	-.00160	-.04330	-.03010	-.16780	-.16840	-.20030	-.20190	548.97000
-.137	-.473	.03130	.00360	-.00140	-.06180	-.04020	-.17500	-.16050	-.19830	-.20110	548.97000
-.111	3.566	.05650	.00790	-.00110	-.07650	-.04530	-.17920	-.15000	-.19830	-.20090	548.97000
-.095	5.577	.06900	.01010	-.00070	-.08250	-.04370	-.17840	-.14470	-.19660	-.19780	548.79000
	GRADIENT	.00548	.00095	.00006	-.00411	-.00188	-.00141	.00228	.00025	.00012	.00000

RUN NO. 72/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.746	-6.091	.01410	.00000	-.00350	-.01270	-.01210	-.16290	-.17060	-.19790	-.20490	548.79000
3.777	-4.109	.02490	.00170	-.00270	-.01840	-.02630	-.16340	-.16610	-.19600	-.20240	548.97000
3.725	-.180	.04880	.00570	-.00160	-.03720	-.03570	-.17240	-.15700	-.19580	-.20100	548.79000
3.734	3.671	.07860	.01090	-.00080	-.05390	-.04220	-.17560	-.14630	-.19490	-.19870	548.97000
3.764	5.647	.09470	.01380	-.00010	-.06030	-.04270	-.18100	-.14410	-.19390	-.20080	548.97000
	GRADIENT	.00690	.00118	.00024	-.00456	-.00204	-.00170	.00254	.00014	.00048	-.00015

IA138 AMES 246-1-97 OTS POWER OFF (R3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 77/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.317	-8.161	-.07710	-.01420	-.00750	.02130	.03220	-.29040	-.34510	-.35060	-.33030	909.76000
-4.410	-6.189	-.05830	-.01070	-.00670	.00910	.02210	-.29110	-.34000	-.35280	-.31990	910.06000
-4.470	-4.144	-.03680	-.00660	-.00560	-.00230	.01280	-.29250	-.33580	-.35680	-.30550	909.76000
-4.511	.110	.01460	.00280	-.00330	-.02450	.00170	-.29960	-.32480	-.35860	-.29070	909.46000
-4.297	4.274	.07150	.01250	.00080	-.04370	-.00440	-.30000	-.30940	-.36100	-.28830	909.46000
	GRADIENT	.01286	.00227	.00076	-.00492	-.00205	-.00089	.00313	-.00050	.00205	-.03576

RUN NO. 78/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.245	-7.790	-.04480	-.00880	-.00660	.02300	.05000	-.28320	-.33730	-.34160	-.33780	909.76000
-.218	-5.821	-.02290	-.00460	-.00590	.01490	.03770	-.28580	-.32660	-.33050	-.32820	909.76000
-.202	-3.813	.00530	.00020	-.00450	.00480	.02390	-.28400	-.31250	-.33210	-.33600	909.76000
-.205	.151	.06190	.01020	-.00150	-.01320	.00490	-.28390	-.30290	-.33860	-.33360	909.76000
-.143	4.253	.11780	.02000	.00270	-.02920	-.00210	-.28570	-.28780	-.33400	-.32460	909.46000
	GRADIENT	.01394	.00245	.00089	-.00421	-.00321	-.00021	.00307	-.00023	.00142	-.03740

RUN NO. 79/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.775	-8.201	-.02110	-.00490	-.00670	.02870	.06600	-.27810	-.33430	-.33760	-.35570	909.76000
3.855	-6.249	.00620	-.00010	-.00490	.02200	.05710	-.28320	-.32420	-.32370	-.35630	909.46000
3.943	-4.229	.03700	.00550	-.00360	.01210	.04780	-.29410	-.31060	-.30820	-.35990	908.86000
4.062	-.022	.10230	.01710	.00060	.00130	.02230	-.29500	-.29420	-.29400	-.36170	909.16000
3.978	4.159	.15560	.02550	.00790	-.00900	.00570	-.29450	-.27700	-.28970	-.36730	909.16000
	GRADIENT	.01414	.00238	.00137	-.00252	-.00502	-.00005	.00401	.00221	-.00088	.03580

IA138 AMES 246-1-97 OTS POWER OFF (R3D009) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	935.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-7.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 88/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.329	-6.183	-.04570	-.00810	-.00750	-.02070	.02220	-.24790	-.27910	-.30180	-.26280	842.86000
-4.431	-4.163	-.02550	-.00470	-.00540	-.02870	.01280	-.25020	-.27300	-.30640	-.25290	843.14000
-4.469	.092	.01340	.00200	-.00340	-.04630	-.00730	-.25490	-.26510	-.29530	-.24710	843.14000
-4.259	4.257	.05700	.00950	-.00060	-.06600	-.01500	-.26200	-.25900	-.30150	-.24980	842.86000
-4.186	6.273	.07720	.01290	.00060	-.07320	-.01030	-.26500	-.25140	-.30630	-.25810	842.86000
	GRADIENT	.00980	.00169	.00057	-.00443	-.00331	-.00140	.00166	.00059	.00037	-.03314

RUN NO. 87/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.187	-5.803	-.01800	-.00360	-.00700	-.01480	.02800	-.23630	-.26810	-.28420	-.28300	843.42000
-.160	-3.828	.00460	.00010	-.00510	-.02130	.01680	-.23710	-.26040	-.29540	-.28780	843.14000
-.165	.135	.04830	.00740	-.00280	-.03810	.00260	-.24370	-.25160	-.28550	-.28840	843.14000
-.105	4.236	.09690	.01550	.00040	-.04990	-.01430	-.25420	-.24010	-.28330	-.27930	843.14000
-.092	6.226	.11730	.01910	.00140	-.05880	-.01850	-.26180	-.23700	-.28920	-.28880	842.86000
	GRADIENT	.01145	.00191	.00068	-.00354	-.00386	-.00212	.00252	.00149	.00106	-.00000

RUN NO. 86/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.891	-6.224	.00970	-.00030	-.00440	.00400	.03070	-.24010	-.26210	-.26400	-.30510	844.26000
3.987	-4.245	.03480	.00400	-.00280	-.00090	.02270	-.24330	-.25200	-.25150	-.30560	843.70000
4.106	-.037	.08760	.01300	-.00020	-.01760	.00660	-.24740	-.23880	-.24590	-.30100	843.42000
4.017	4.143	.13530	.02110	.00340	-.03130	-.00710	-.25800	-.22920	-.24870	-.30170	843.42000
3.984	6.177	.15050	.02420	.00390	-.03480	-.01090	-.25930	-.22350	-.25510	-.30640	843.42000
	GRADIENT	.01198	.00204	.00074	-.00362	-.00355	-.00175	.00272	.00033	.00047	-.03342

IA138 AMES 246-1-97 OTS POWER OFF (R3D010) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 89/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.320	-5.658	-.01730	-.00410	-.00190	-.04990	-.00890	-.20030	-.21820	-.25700	-.22740	679.68000
-4.420	-3.639	-.00650	-.00210	-.00150	-.05960	-.01530	-.20170	-.21110	-.25310	-.22440	678.33000
-4.454	.614	.02240	.00300	-.00040	-.07820	-.02750	-.20860	-.19530	-.24800	-.23320	678.78000
-4.242	4.779	.05480	.00830	.00150	-.08820	-.03120	-.21230	-.18290	-.24070	-.23510	678.55000
-4.168	6.796	.06740	.01050	.00170	-.09520	-.02630	-.20860	-.18120	-.24210	-.23120	678.33000
	GRADIENT	.00728	.00124	.00036	-.00340	-.00189	-.00126	.00335	.00147	-.00127	.02641

RUN NO. 90/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.205	-5.707	-.00020	-.00170	-.00220	-.03130	-.00110	-.19410	-.21060	-.25130	-.25150	678.33000
-.214	-3.772	.01410	.00070	-.00130	-.03910	-.00840	-.19460	-.20250	-.24790	-.24700	678.55000
-.191	.261	.04440	.00590	-.00100	-.05820	-.02150	-.21090	-.19530	-.25150	-.25170	678.11000
-.163	4.306	.07880	.01170	.00020	-.07010	-.02990	-.21290	-.18450	-.24340	-.24470	678.11000
	GRADIENT	.00801	.00136	.00019	-.00384	-.00266	-.00226	.00223	.00056	.00029	-.05444

RUN NO. 91/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.905	-5.700	.01720	.00050	-.00280	-.00410	.00770	-.19410	-.20860	-.23130	-.25810	678.11000
4.002	-3.727	.03290	.00300	-.00200	-.01320	-.00060	-.19490	-.20040	-.22570	-.25290	677.88000
4.119	.481	.07100	.00960	-.00170	-.03460	-.01420	-.20550	-.18460	-.23660	-.24930	678.11000
4.026	4.663	.11030	.01620	.00130	-.05330	-.02210	-.20960	-.17430	-.23340	-.24340	677.88000
3.993	6.692	.12370	.01910	.00080	-.05330	-.01980	-.21060	-.17130	-.23310	-.24730	678.11000
	GRADIENT	.00923	.00157	.00039	-.00478	-.00256	-.00175	.00311	-.00092	.00113	.00006

IA138 AMES 246-1-97 OTS POWER OFF (R3D011) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XQ		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YQ		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZQ		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	2.000
MACH =	2.800	SRSPR =	.000
SSMEPR =	.000		

RUN NO. 229/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.264	-6.397	.00440	-.00170	.00090	-.05750	-.04310	-.15700	-.17040	-.19620	-.18420	548.97000
-4.368	-4.375	.00130	-.00060	.00090	-.06650	-.04500	-.15870	-.16180	-.19070	-.18130	548.97000
-4.404	-.124	.02140	.00280	.00200	-.08550	-.05340	-.16710	-.15110	-.18700	-.18370	548.97000
-4.198	4.037	.04510	.00670	.00320	-.09900	-.05750	-.16990	-.13950	-.18280	-.18470	548.79000
-4.126	6.050	.05340	.00830	.00280	-.10340	-.05770	-.16940	-.13870	-.18340	-.18210	548.97000
	GRADIENT	.00520	.00087	.00027	-.00387	-.00149	-.00133	.00265	.00094	-.00040	-.02132

RUN NO. 228/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.149	-6.439	.00410	-.00050	-.00150	-.03210	-.03340	-.16050	-.16560	-.19560	-.19670	548.24000
-.156	-4.496	.01650	.00130	.00020	-.04150	-.03820	-.16290	-.16370	-.19450	-.19510	548.24000
-.140	-.463	.03670	.00470	.00060	-.06090	-.04800	-.17080	-.15700	-.19300	-.19470	548.06000
-.112	3.572	.06040	.00900	.00050	-.07530	-.05540	-.17060	-.13970	-.18670	-.18820	548.24000
-.095	5.578	.07310	.01120	.00070	-.08170	-.05110	-.17360	-.13890	-.18950	-.19050	548.24000
	GRADIENT	.00544	.00095	.00004	-.00419	-.00213	-.00095	.00297	.00097	.00086	.00001

RUN NO. 227/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.882	-6.439	.02300	.00160	.00030	-.00700	-.03580	-.15980	-.16670	-.18860	-.19910	549.15000
3.977	-4.460	.03280	.00310	.00040	-.01320	-.04060	-.15720	-.15930	-.18300	-.19250	548.24000
4.101	-.255	.05860	.00740	.00080	-.03260	-.04590	-.16690	-.15010	-.18570	-.19060	548.06000
4.014	3.925	.08750	.01280	.00120	-.05110	-.05400	-.17050	-.13970	-.18620	-.18860	548.24000
3.981	5.952	.10680	.01600	.00280	-.05850	-.05340	-.17070	-.13300	-.18230	-.18790	547.88000
	GRADIENT	.00652	.00116	.00010	-.00452	-.00160	-.00159	.00234	-.00038	.00047	-.00004

IA138 AMES 246-1-97 OTS POWER OFF (R3D012) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 101/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.315	-8.151	-.07530	-.01280	-.01220	.00050	.00640	-.30530	-.35160	-.36160	-.34030	908.86000
-4.407	-6.183	-.05670	-.00930	-.01120	-.01020	-.00590	-.30340	-.34380	-.36080	-.32710	909.16000
-4.468	-4.135	-.03200	-.00490	-.00970	-.02220	-.01450	-.30520	-.33850	-.36530	-.31360	908.56000
-4.503	.113	.02200	.00480	-.00700	-.04420	-.02280	-.30970	-.32490	-.37040	-.29700	908.86000
-4.296	4.272	.07800	.01430	-.00260	-.05940	-.02710	-.30950	-.30840	-.37100	-.29470	909.16000
-4.220	6.289	.09690	.01800	-.00200	-.06410	-.02590	-.31930	-.29970	-.38660	-.31160	908.56000
	GRADIENT	.01308	.00228	.00084	-.00443	-.00150	-.00051	.00358	-.00068	.00225	.07135

RUN NO. 100/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.265	-8.168	-.04740	-.00810	-.01150	.00570	.02040	-.29580	-.34190	-.35460	-.35190	909.16000
-.270	-6.243	-.02240	-.00380	-.00960	-.00140	.01060	-.29570	-.32940	-.33690	-.33620	909.16000
-.258	-4.260	.00570	.00100	-.00830	-.01300	-.00300	-.29600	-.31590	-.33850	-.34590	909.16000
-.240	-.227	.06460	.01120	-.00510	-.03080	-.02130	-.30060	-.30280	-.34280	-.33970	908.86000
-.212	3.807	.11960	.02080	-.00070	-.04540	-.02710	-.29740	-.28630	-.34170	-.33170	909.16000
-.195	5.817	.13790	.02440	.00070	-.05250	-.02620	-.30190	-.27820	-.35060	-.34330	908.86000
	GRADIENT	.01412	.00245	.00094	-.00402	-.00299	-.00017	.00367	-.00040	.00176	.00000

RUN NO. 99/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.769	-8.191	-.01300	-.00290	-.00960	.01010	.03330	-.28830	-.33700	-.34430	-.36660	904.64000
3.849	-6.242	.01700	.00230	-.00750	.00370	.02280	-.29230	-.32450	-.32780	-.36350	907.35000
3.937	-4.224	.04670	.00770	-.00640	-.00490	.01420	-.30370	-.30940	-.31270	-.36820	907.65000
4.056	-.021	.11040	.01890	-.00220	-.01660	-.00970	-.30350	-.29020	-.29430	-.36730	908.56000
3.968	4.157	.16410	.02730	.00550	-.02580	-.02360	-.30450	-.27330	-.29420	-.37430	908.86000
3.938	6.188	.17510	.02970	.00610	-.02960	-.02530	-.31370	-.26480	-.31100	-.38790	908.86000
	GRADIENT	.01401	.00234	.00142	-.00249	-.00451	-.00010	.00431	.00221	-.00073	.14448

IA138 AMES 246-1-97 OTS POWER OFF (R3D013) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 102/ 0 RN/L = 3.70 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.274	-8.166	-.05870	-.01000	-.01050	-.02410	.00050	-.26160	-.28550	-.31440	-.28420	842.71000
-4.367	-6.199	-.04200	-.00700	-.01000	-.03530	-.00850	-.24890	-.27720	-.30360	-.26550	842.43000
-4.429	-4.154	-.02360	-.00390	-.00850	-.04300	-.01620	-.25000	-.26740	-.31160	-.25200	842.15000
-4.463	.097	.01680	.00300	-.00630	-.06200	-.03560	-.26170	-.26060	-.30690	-.24600	842.71000
-4.259	4.257	.06190	.01060	-.00330	-.08110	-.04270	-.26170	-.25370	-.30790	-.24620	842.15000
-4.183	6.274	.08250	.01420	-.00190	-.08880	-.03880	-.27010	-.24490	-.31390	-.25430	842.43000
	GRADIENT	.01016	.00172	.00062	-.00453	-.00316	-.00140	.00163	.00044	.00069	.00048

RUN NO. 103/ 0 RN/L = 3.71 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.206	-7.790	-.03220	-.00590	-.00990	-.01580	.01190	-.24440	-.27690	-.30370	-.30550	842.15000
-.178	-5.827	-.01140	-.00240	-.00880	-.02700	-.00090	-.24070	-.26520	-.28990	-.29050	842.15000
-.162	-3.821	.01050	.00140	-.00750	-.03540	-.00970	-.24580	-.25570	-.29930	-.29220	842.71000
-.167	.138	.05280	.00850	-.00560	-.05330	-.02430	-.25450	-.24650	-.29470	-.29290	843.27000
-.104	4.234	.10230	.01680	-.00230	-.06460	-.04040	-.26540	-.23470	-.29120	-.28750	842.71000
-.091	6.223	.12420	.02050	-.00100	-.07300	-.04500	-.26310	-.22930	-.29490	-.29350	843.27000
	GRADIENT	.01140	.00191	.00065	-.00362	-.00381	-.00243	.00261	.00100	.00059	-.00079

RUN NO. 104/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.811	-8.205	-.00880	-.00270	-.00870	-.00050	.01980	-.24670	-.26770	-.28950	-.32620	842.99000
3.891	-6.255	.01220	.00100	-.00790	-.00780	.01050	-.24000	-.25650	-.26740	-.31040	843.55000
3.979	-4.237	.03760	.00520	-.00650	-.01360	.00220	-.24430	-.24750	-.25450	-.31590	842.71000
4.096	-.034	.09390	.01460	-.00360	-.03070	-.01540	-.25410	-.23280	-.24310	-.31350	842.99000
4.012	4.141	.14120	.02270	.00020	-.04430	-.02970	-.25840	-.22070	-.24430	-.30800	843.55000
3.981	6.173	.15630	.02560	.00110	-.04910	-.03470	-.26190	-.21630	-.25130	-.31400	843.27000
	GRADIENT	.01237	.00209	.00080	-.00366	-.00381	-.00168	.00320	.00122	.00094	.10022

IA138 AMES 246-1-97 OTS POWER OFF (R30014) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 153/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.327	-6.171	-.04510	-.00770	-.00910	-.03320	.00530	-.24220	-.26690	-.28860	-.25330	842.99000
-4.426	-4.150	-.02760	-.00480	-.00760	-.03980	-.00370	-.24370	-.25870	-.29480	-.24360	842.99000
-4.463	.100	.01380	.00230	-.00540	-.05800	-.02380	-.24930	-.25270	-.28670	-.23600	843.27000
-4.259	4.256	.05780	.00980	-.00240	-.07720	-.03230	-.25720	-.24680	-.29130	-.23750	842.99000
-4.182	6.272	.07710	.01330	-.00140	-.08470	-.03000	-.26070	-.23900	-.29670	-.24550	842.99000
	GRADIENT	.01016	.00174	.00062	-.00445	-.00341	-.00160	.00142	.00042	.00073	.00025

RUN NO. 152/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.213	-6.216	-.01970	-.00380	-.00840	-.02340	.00960	-.23660	-.25730	-.27630	-.27790	842.99000
-.218	-4.275	-.00010	-.00040	-.00690	-.03080	.00060	-.23700	-.24950	-.28500	-.27790	843.55000
-.196	-.245	.04570	.00720	-.00470	-.04830	-.01300	-.23950	-.23890	-.27530	-.27690	842.99000
-.173	3.793	.09350	.01500	-.00110	-.06020	-.02900	-.24910	-.22870	-.27430	-.26940	842.71000
-.156	5.802	.11480	.01890	-.00020	-.06860	-.03550	-.25780	-.22510	-.27820	-.27700	842.99000
	GRADIENT	.01160	.00191	.00072	-.00364	-.00367	-.00150	.00258	.00133	.00105	-.10410

RUN NO. 151/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.822	-6.214	.01150	.00050	-.00620	-.00710	.01320	-.23770	-.25300	-.25890	-.30080	842.15000
3.916	-4.237	.03630	.00460	-.00470	-.01240	.00420	-.24140	-.24210	-.24650	-.30080	842.43000
4.035	-.034	.09010	.01360	-.00180	-.02810	-.01170	-.24840	-.22810	-.23600	-.29460	843.27000
3.952	4.145	.13670	.02160	.00170	-.04180	-.02340	-.25180	-.21680	-.23830	-.29210	843.27000
3.917	6.174	.15100	.02450	.00220	-.04640	-.02900	-.25750	-.21200	-.24360	-.29840	843.82000
	GRADIENT	.01198	.00203	.00076	-.00351	-.00329	-.00124	.00302	.00098	.00104	.10031

IA138 AMES 246-1-97 OTS POWER OFF (R3D015) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 130/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.135	-7.811	-.07100	-.01270	-.00930	.00150	.01950	-.29020	-.33860	-.34870	-.32740	909.16000
-4.128	-5.841	-.05140	-.00900	-.00830	-.00920	.00880	-.29060	-.33170	-.34860	-.31460	909.16000
-4.112	-3.859	-.02800	-.00470	-.00710	-.02000	.00020	-.29230	-.32740	-.35610	-.30220	908.56000
-4.028	.041	.02280	.00420	-.00450	-.03810	-.01040	-.29840	-.31520	-.35950	-.29260	909.76000
-4.024	3.905	.07310	.01300	-.00090	-.05500	-.01640	-.29830	-.30390	-.35500	-.28590	910.06000
-4.044	5.897	.09200	.01660	.00010	-.05990	-.01700	-.30590	-.29610	-.37060	-.29930	910.06000
	GRADIENT	.01302	.00228	.00080	-.00451	-.00214	-.00077	.00303	.00014	.00210	.19339

RUN NO. 129/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.243	-7.786	-.04130	-.00790	-.00800	.00510	.03000	-.28670	-.33210	-.33970	-.33750	909.46000
-.218	-5.813	-.01720	-.00370	-.00660	-.00090	.01970	-.28800	-.31950	-.32950	-.32980	909.76000
-.202	-3.806	.01050	.00110	-.00520	-.01180	.00560	-.28600	-.30480	-.33060	-.33630	909.16000
-.205	.156	.06680	.01100	-.00220	-.02800	-.01160	-.28620	-.29430	-.33410	-.33070	909.16000
-.144	4.252	.12190	.02060	.00230	-.04240	-.01780	-.28630	-.27940	-.32980	-.32120	909.46000
-.131	6.241	.13800	.02380	.00340	-.04900	-.01850	-.28930	-.27180	-.34370	-.33720	909.46000
	GRADIENT	.01382	.00242	.00093	-.00380	-.00290	-.00004	.00315	.00010	.00188	.03743

RUN NO. 128/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.629	-7.852	-.00910	-.00320	-.00650	.01050	.03790	-.28050	-.32730	-.33440	-.35390	909.46000
3.671	-5.871	.02000	.00190	-.00460	.00500	.03040	-.29110	-.31490	-.31950	-.35540	910.06000
3.675	-3.870	.04810	.00710	-.00340	-.00200	.01990	-.29560	-.30330	-.30730	-.36060	909.16000
3.627	.061	.10540	.01720	.00030	-.01310	-.00380	-.29890	-.28520	-.29430	-.35820	909.46000
3.629	3.907	.15500	.02530	.00680	-.02230	-.01760	-.29350	-.27120	-.29000	-.36120	909.46000
3.658	5.883	.16610	.02790	.00730	-.02620	-.01760	-.30210	-.26280	-.30350	-.37570	909.46000
	GRADIENT	.01375	.00234	.00131	-.00261	-.00483	.00027	.00413	.00223	-.00007	.03871

IA138 AMES 246-1-97 OTS POWER OFF (R3D016) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-7.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 139/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.084	-5.828	-.03810	-.00670	-.00870	-.03700	.00670	-.25460	-.27070	-.29880	-.25690	842.99000
-4.074	-3.877	-.02160	-.00370	-.00740	-.04290	-.00290	-.25450	-.26560	-.30400	-.25010	843.27000
-3.995	.025	.01850	.00310	-.00530	-.05900	-.02080	-.25210	-.25870	-.29320	-.24640	843.55000
-3.984	3.890	.05770	.00960	-.00220	-.07570	-.03070	-.26180	-.25180	-.29580	-.24670	842.71000
-4.005	5.882	.07680	.01300	-.00090	-.08290	-.02740	-.26380	-.24550	-.30220	-.25360	842.43000
	GRADIENT	.01021	.00171	.00067	-.00422	-.00358	-.00094	.00178	.00106	.00044	-.07188

RUN NO. 138/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.187	-5.798	-.01380	-.00300	-.00770	-.02700	.01140	-.24290	-.26210	-.28380	-.28360	843.27000
-.162	-3.821	.00700	.00060	-.00640	-.03360	.00090	-.23830	-.25340	-.29190	-.28490	842.99000
-.164	.139	.05100	.00790	-.00410	-.05080	-.01360	-.24750	-.24380	-.27990	-.28370	842.71000
-.105	4.239	.10000	.01600	-.00060	-.06220	-.02890	-.26300	-.23400	-.28100	-.27760	842.99000
-.092	6.227	.11910	.01940	.00030	-.06970	-.03460	-.26510	-.22800	-.28440	-.28350	842.71000
	GRADIENT	.01154	.00191	.00072	-.00354	-.00370	-.00307	.00241	.00134	.00091	.00040

RUN NO. 137/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.683	-5.865	.01500	.00090	-.00550	-.00830	.01170	-.24020	-.25500	-.26180	-.30610	842.71000
3.715	-3.882	.03870	.00490	-.00420	-.01440	.00480	-.24460	-.24460	-.25330	-.30500	842.43000
3.665	.044	.08800	.01300	-.00140	-.03060	-.00970	-.24960	-.23090	-.24620	-.29990	842.99000
3.669	3.895	.13250	.02070	.00180	-.04250	-.02160	-.25660	-.22450	-.24910	-.29710	842.99000
3.698	5.869	.15020	.02400	.00290	-.04620	-.02680	-.25920	-.21880	-.25260	-.30270	842.99000
	GRADIENT	.01206	.00203	.00077	-.00361	-.00340	-.00154	.00259	.00054	.00102	.07223

IA138 AMES 246-1-97 OTS POWER OFF (R3D017) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 176/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.313	-8.156	-.07900	-.01320	-.01050	.03670	.00520	-.28880	-.34620	-.37150	-.34830	910.06000
-4.407	-6.184	-.05890	-.00950	-.00940	.02470	-.00670	-.29190	-.33930	-.36340	-.33960	910.06000
-4.469	-4.139	-.03600	-.00530	-.00810	.01190	-.01630	-.29510	-.33710	-.36380	-.33310	910.36000
-4.507	.113	.01750	.00430	-.00550	-.01080	-.02360	-.30260	-.32720	-.36330	-.31850	910.06000
-4.299	4.277	.07150	.01360	-.00130	-.02880	-.02770	-.29980	-.30980	-.37480	-.31760	910.36000
	GRADIENT	.01277	.00225	.00081	-.00484	-.00136	-.00056	.00324	-.00130	.00185	-.00025

RUN NO. 175/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.243	-7.780	-.04610	-.00770	-.00910	.03670	.01600	-.28620	-.33790	-.35620	-.36000	908.86000
-.216	-5.811	-.02130	-.00340	-.00750	.02910	.00500	-.28800	-.32920	-.34550	-.34710	908.56000
-.199	-3.807	.00760	.00160	-.00620	.01690	-.00840	-.28640	-.31420	-.34580	-.35090	910.36000
-.206	.152	.06480	.01160	-.00310	-.00030	-.02470	-.28570	-.30450	-.35110	-.34990	910.36000
-.144	4.255	.11950	.02110	.00160	-.01660	-.02880	-.28730	-.28680	-.35220	-.35050	910.36000
	GRADIENT	.01388	.00242	.00097	-.00415	-.00252	-.00011	.00340	-.00079	.00005	.00000

RUN NO. 174/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.716	-8.192	-.01440	-.00320	-.00730	.04090	.02560	-.27890	-.33600	-.35450	-.37040	909.46000
3.794	-6.241	.01330	.00170	-.00570	.03430	.01710	-.28560	-.32570	-.34410	-.36400	909.16000
3.883	-4.224	.04150	.00690	-.00480	.02530	.00890	-.29810	-.31370	-.33460	-.36400	909.46000
4.000	-.017	.10470	.01820	-.00040	.01190	-.01370	-.29750	-.29580	-.31990	-.36530	909.16000
3.909	4.161	.15490	.02650	.00630	.00230	-.02740	-.29710	-.27760	-.32000	-.37880	909.16000
	GRADIENT	.01353	.00234	.00132	-.00274	-.00433	.00012	.00431	.00174	-.00176	-.0358

IA138 AMES 246-1-97 OTS POWER OFF (R3D018) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 142/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.146	-7.790	-.08100	-.01410	-.00910	.03530	.01030	-.28890	-.34500	-.35880	-.34920	910.44000
-4.141	-5.831	-.05420	-.00960	-.00680	.02260	-.00060	-.29130	-.33760	-.35960	-.34070	910.74000
-4.126	-3.853	-.03250	-.00550	-.00590	.01020	-.00930	-.29430	-.33560	-.35850	-.32990	909.53000
-4.038	.041	.01840	.00360	-.00360	-.00880	-.01840	-.29940	-.32680	-.36070	-.32270	910.14000
-4.035	3.896	.06700	.01220	-.00030	-.02840	-.02390	-.29680	-.31380	-.36770	-.31330	909.53000
	GRADIENT	.01284	.00228	.00072	-.00498	-.00188	-.00032	.00281	-.00119	.00214	.00027

RUN NO. 143/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.243	-7.755	-.04570	-.00860	-.00690	.03740	.02720	-.28490	-.33820	-.35650	-.35910	910.14000
-.217	-5.802	-.02560	-.00470	-.00630	.02940	.01690	-.28610	-.32950	-.34360	-.34520	909.83000
-.202	-3.799	.00260	.00020	-.00500	.01820	.00350	-.28490	-.31560	-.34370	-.34920	909.83000
-.202	.155	.05900	.01010	-.00190	-.00010	-.01580	-.28420	-.30620	-.34990	-.34890	909.53000
-.139	4.240	.11330	.01960	.00240	-.01640	-.02140	-.28470	-.28940	-.35010	-.34860	909.53000
	GRADIENT	.01377	.00241	.00092	-.00430	-.00309	.00002	.00326	-.00079	.00007	-.03712

RUN NO. 144/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.575	-7.826	-.02150	-.00440	-.00710	.04190	.04120	-.27980	[illegible]	-.35380	-.36620	910.44000
3.619	-5.857	.00730	.00070	-.00520	.03470	.03370	-.28180	-.32250	-.34270	-.35920	910.14000
3.624	-3.860	.03690	.00610	-.00410	.02600	.02350	-.29560	-.31290	-.33380	-.36030	910.74000
3.574	.059	.09260	.01600	-.00050	.01330	-.00170	-.29520	-.30640	-.32250	-.36200	910.14000
3.576	3.895	.14420	.02430	.00630	.00250	-.01580	-.28950	-.28110	-.31960	-.37310	910.14000
	GRADIENT	.01384	.00235	.00134	-.00303	-.00507	.00078	.00410	.00183	-.00165	-.07764

IA138 AMES 246-1-97 OTS POWER OFF (R3D019) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-2.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 121/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.068	-5.303	-.01850	-.00360	-.00290	-.00980	-.03110	-.18730	-.21290	-.24470	-.22260	678.55000
-4.058	-3.351	-.00710	-.00150	-.00250	-.02250	-.03540	-.19030	-.20660	-.24360	-.22420	678.55000
-3.976	.545	.02140	.00320	-.00120	-.04210	-.04500	-.20040	-.19210	-.23830	-.23240	678.78000
-3.965	4.408	.05010	.00800	.00030	-.05260	-.05140	-.20330	-.18070	-.23190	-.22800	678.78000
-3.985	6.398	.06230	.01020	.00050	-.06100	-.04740	-.20090	-.17820	-.23370	-.22310	678.55000
	GRADIENT	.00737	.00122	.00036	-.00388	-.00206	-.00168	.00334	.00151	-.00049	.02968

RUN NO. 122/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.184	-5.277	-.00280	-.00130	-.00300	.00620	-.01580	-.18520	-.20560	-.23840	-.24000	678.78000
-.159	-3.302	.01160	.00110	-.00230	-.00470	-.02840	-.18880	-.20010	-.24030	-.24120	678.55000
-.147	.651	.04410	.00640	-.00150	-.02700	-.03940	-.20020	-.18980	-.23830	-.23990	678.78000
-.098	4.757	.07760	.01220	-.00060	-.03980	-.04810	-.20780	-.18120	-.22920	-.23260	678.78000
-.085	6.745	.09420	.01500	.00030	-.04630	-.04780	-.20010	-.17680	-.22730	-.23030	678.78000
	GRADIENT	.00819	.00138	.00021	-.00435	-.00244	-.00235	.00234	.00138	.00107	.02835

RUN NO. 123/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.698	-5.343	.01290	.00060	-.00340	.02650	-.01300	-.18400	-.20480	-.22490	-.24530	678.55000
3.731	-3.362	.02810	.00310	-.00280	.01470	-.01980	-.18650	-.19920	-.22450	-.24470	678.55000
3.676	.564	.06310	.00920	-.00200	-.00960	-.03110	-.19670	-.18600	-.22990	-.23970	678.78000
3.677	4.413	.10370	.01570	.00120	-.02750	-.03720	-.20060	-.17540	-.22490	-.23450	678.55000
3.704	6.383	.11760	.01870	.00080	-.02830	-.03710	-.20270	-.17060	-.22180	-.23580	678.78000
	GRADIENT	.00972	.00162	.00051	-.00543	-.00224	-.00182	.00306	-.00006	.00131	.00019

IA138 AMES 246-1-97 OTS POWER OFF (R3D020) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 120/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.020	-6.048	-.01560	-.00300	-.00290	-.01770	-.04120	-.15450	-.16910	-.19230	-.18550	548.97000
-4.011	-4.097	-.00640	-.00160	-.00190	-.02850	-.04710	-.15880	-.16380	-.19140	-.18570	548.97000
-3.931	-.198	.01410	.00180	-.00070	-.04800	-.05400	-.16220	-.15350	-.18770	-.18650	548.97000
-3.922	3.665	.03510	.00530	.00040	-.06270	-.05650	-.16800	-.14410	-.18360	-.18370	548.97000
-3.942	5.654	.04440	.00690	.00070	-.06550	-.05530	-.16950	-.14360	-.18550	-.18250	548.97000
	GRADIENT	.00535	.00089	.00030	-.00441	-.00121	-.00118	.00254	.00100	.00026	.00000

RUN NO. 119/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.128	-6.019	-.00300	-.00150	-.00280	.00210	-.04160	-.15330	-.16660	-.19020	-.19300	548.97000
-.102	-4.042	.00990	.00030	-.00130	-.00950	-.04720	-.15870	-.16370	-.18880	-.19100	548.97000
-.105	-.082	.03010	.00380	-.00070	-.03140	-.05500	-.16760	-.15620	-.18880	-.19240	549.15000
-.044	4.016	.05560	.00820	-.00030	-.04770	-.05880	-.16470	-.14710	-.18690	-.18950	548.97000
-.031	6.002	.08740	.01200	.00490	-.05300	-.05570	-.16580	-.14230	-.18610	-.18830	548.97000
	GRADIENT	.00567	.00098	.00012	-.00474	-.00144	-.00074	.00206	.00024	.00019	-.00026

RUN NO. 118/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.741	-6.087	.01510	.00030	-.00050	.01970	-.04750	-.14920	-.16570	-.18700	-.19400	549.15000
3.773	-4.104	.02460	.00180	-.00050	.01110	-.05070	-.15770	-.16270	-.18680	-.19390	548.97000
3.721	-.179	.04700	.00570	.00020	-.00950	-.05520	-.16190	-.15630	-.18680	-.19230	549.15000
3.728	3.670	.07590	.01080	.00040	-.02780	-.05760	-.16750	-.14350	-.18340	-.18610	548.97000
3.758	5.641	.09290	.01370	.00160	-.03400	-.05600	-.16680	-.14240	-.18230	-.18980	549.15000
	GRADIENT	.00660	.00116	.00012	-.00500	-.00089	-.00126	.00247	.00044	.00100	.00015

IA138 AMES 246-1-97 OTS POWER OFF (R3D021) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 160/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.082	-5.830	-.03910	-.00700	-.00460	.03000	.00710	-.23650	-.27510	-.29320	-.25000	842.99000
-4.069	-3.871	-.02400	-.00400	-.00370	.02110	-.00210	-.23860	-.27270	-.29800	-.24460	842.99000
-3.991	.025	.01380	.00240	-.00190	-.00040	-.01910	-.24360	-.26830	-.29400	-.24830	842.43000
-3.984	3.889	.05390	.00920	.00100	-.02050	-.02660	-.25110	-.26330	-.30000	-.24620	842.71000
-4.004	5.882	.07250	.01250	.00200	-.03040	-.02500	-.25690	-.25680	-.30410	-.25250	842.43000
	GRADIENT	.01004	.00170	.00061	-.00536	-.00316	-.00161	.00121	-.00026	-.00021	-.03623

RUN NO. 159/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.207	-6.227	-.02400	-.00440	-.00470	.03490	.01410	-.22390	-.26950	-.27260	-.27230	842.71000
-.214	-4.287	-.00340	-.00090	-.00330	.02530	.00390	-.22420	-.26520	-.28680	-.27780	842.99000
-.196	-.254	.04200	.00660	-.00090	.00680	-.01120	-.23210	-.25870	-.28170	-.28280	842.99000
-.175	3.737	.08970	.01450	.00250	-.00770	-.02580	-.24310	-.25030	-.27850	-.27870	842.99000
-.159	5.796	.11100	.01830	.00340	-.01690	-.03140	-.25240	-.24500	-.28140	-.28430	842.71000
	GRADIENT	.01153	.00191	.00072	-.00409	-.00368	-.00234	.00185	.00103	-.00011	-.00000

RUN NO. 158/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.628	-5.867	.00870	.00020	-.00170	.04480	.01460	-.22890	-.26240	-.24770	-.29520	842.71000
3.660	-3.881	.03420	.00440	-.00030	.03720	.00610	-.22900	-.25450	-.24710	-.29740	842.71000
3.606	.045	.08280	.01250	.00210	.01970	-.00840	-.23820	-.24440	-.24420	-.30110	842.71000
3.611	3.896	.12690	.02010	.00490	.00510	-.01880	-.24620	-.23940	-.24730	-.30060	842.99000
3.641	5.870	.14560	.02350	.00600	.00160	-.02410	-.24900	-.23310	-.25110	-.30240	842.99000
	GRADIENT	.01192	.00202	.00067	-.00413	-.00320	-.00221	.00194	-.00002	-.00041	.03588

IA138 AMES 246-1-97 OTS POWER OFF (R30022) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 161/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.323	-5.648	-.02470	-.00460	-.00280	-.00760	-.01200	-.19180	-.21440	-.24530	-.22150	679.00000
-4.422	-3.629	-.01200	-.00240	-.00190	-.02190	-.01890	-.19290	-.20820	-.24450	-.22180	678.55000
-4.453	.620	.01920	.00270	-.00040	-.04300	-.03270	-.20440	-.19240	-.23790	-.22920	678.55000
-4.246	4.780	.05120	.00790	.00180	-.05360	-.03940	-.20590	-.18310	-.23390	-.22910	678.78000
-4.165	6.794	.06480	.01030	.00210	-.06090	-.03590	-.20380	-.17910	-.23580	-.22420	678.33000
	GRADIENT	.00751	.00122	.00044	-.00377	-.00244	-.00155	.00299	.00126	-.00087	.02725

RUN NO. 162/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.195	-5.705	-.00320	-.00180	-.00130	.00880	-.00580	-.18570	-.20860	-.23960	-.24190	678.33000
-.203	-3.765	.01160	.00060	-.00020	-.00300	-.01410	-.18890	-.20570	-.24420	-.24540	679.00000
-.182	.266	.04390	.00600	.00050	-.02470	-.02780	-.20330	-.19360	-.24150	-.24270	678.55000
-.164	4.306	.07660	.01160	.00150	-.03890	-.03790	-.20530	-.18420	-.23270	-.23560	679.00000
-.148	6.315	.09400	.01430	.00260	-.04440	-.03820	-.20400	-.18070	-.23010	-.23180	678.78000
	GRADIENT	.00805	.00136	.00021	-.00445	-.00295	-.00203	.00266	.00143	.00121	.00004

RUN NO. 163/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.845	-5.693	.01470	.00040	-.00100	.02930	-.00080	-.18560	-.20870	-.22610	-.24820	678.78000
3.942	-3.722	.03080	.00290	-.00030	.01840	-.00920	-.19380	-.20360	-.22560	-.24870	678.78000
4.057	.487	.06990	.00960	.00000	-.00660	-.02250	-.20300	-.18840	-.23260	-.24310	679.00000
3.965	4.671	.10890	.01610	.00330	-.02630	-.03060	-.20350	-.17790	-.22640	-.23740	678.55000
3.930	6.698	.12340	.01910	.00330	-.02700	-.03010	-.20210	-.17350	-.22400	-.23900	679.00000
	GRADIENT	.00931	.00157	.00043	-.00533	-.00255	-.00116	.00306	-.00010	.00135	-.02732

IA138 AMES 246-1-97 OTS POWER OFF (R3D023) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 172/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.018	-6.053	-.01000	-.00290	-.00030	-.01670	-.02640	-.15520	-.17280	-.19440	-.18320	548.97000
-4.007	-4.095	.00000	-.00140	.00090	-.02730	-.03460	-.15880	-.16600	-.19350	-.18290	549.15000
-3.927	-.198	.01980	.00200	.00180	-.04730	-.04360	-.16260	-.15560	-.18840	-.18410	548.97000
-3.922	3.665	.04120	.00550	.00300	-.06170	-.04810	-.16840	-.14490	-.18240	-.18100	548.79000
-3.945	5.658	.05040	.00710	.00330	-.06390	-.04660	-.16930	-.14470	-.18390	-.17930	548.97000
	GRADIENT	.00531	.00089	.00027	-.00443	-.00174	-.00124	.00272	.00143	.00024	-.04639

RUN NO. 171/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.144	-6.452	.00040	-.00170	-.00020	.00450	-.02800	-.15700	-.17220	-.19490	-.19710	548.97000
-.153	-4.509	.01350	.00010	.00130	-.00610	-.03510	-.15710	-.16790	-.19110	-.19280	548.79000
-.136	-.477	.03380	.00360	.00190	-.02930	-.04450	-.16250	-.16110	-.19140	-.19410	548.97000
-.113	3.562	.05800	.00780	.00220	-.04600	-.05040	-.16960	-.15270	-.19050	-.19160	548.97000
-.098	5.571	.07110	.01000	.00260	-.05160	-.04700	-.17580	-.14880	-.18970	-.19040	548.97000
	GRADIENT	.00551	.00095	.00011	-.00494	-.00190	-.00155	.00188	.00007	.00015	.02230

RUN NO. 170/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.683	-6.089	.01970	.00030	.00190	.01950	-.03110	-.15560	-.17080	-.18860	-.19760	548.79000
3.716	-4.103	.03100	.00200	.00270	.01080	-.03640	-.15620	-.16760	-.18830	-.19750	549.15000
3.662	-.177	.05510	.00600	.00350	-.00940	-.04510	-.16550	-.16020	-.18800	-.19330	549.15000
3.672	3.672	.08260	.01100	.00350	-.02750	-.05060	-.16980	-.14930	-.18560	-.18910	549.15000
3.703	5.644	.09940	.01380	.00440	-.03380	-.04860	-.16880	-.14410	-.18140	-.18940	548.97000
	GRADIENT	.00664	.00116	.00010	-.00493	-.00183	-.00175	.00235	.00035	.00108	.00000

IA138 AMES 246-1-97 OTS POWER OFF (R3D024) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 199/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.072	-5.311	-.02350	-.00460	-.00170	-.00930	.00000	-.19350	-.21550	-.24360	-.21780	678.78000
-4.059	-3.353	-.01080	-.00230	-.00060	-.02270	.00000	-.20020	-.21020	-.24390	-.21960	678.55000
-3.976	.546	.01770	.00260	.00090	-.04240	.00000	-.19930	-.19560	-.23860	-.22970	678.55000
-3.970	4.412	.04840	.00750	.00280	-.05290	.00000	-.20810	-.18500	-.23330	-.22820	678.78000
-3.988	6.402	.06090	.00970	.00310	-.06060	.00000	-.20710	-.18400	-.23570	-.22340	678.78000
	GRADIENT	.00762	.00126	.00044	-.00389	.00000	-.00102	.00325	.00137	-.00111	.02958

RUN NO. 198/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.192	-5.710	-.00860	-.00260	-.00080	.00910	.00000	-.19010	-.21070	-.23600	-.23840	679.00000
-.199	-3.770	.00660	-.00010	.00040	-.00310	.00000	-.19030	-.20520	-.23650	-.23810	678.55000
-.184	.264	.04050	.00540	.00190	-.02510	.00000	-.20210	-.19450	-.23780	-.23880	678.78000
-.159	4.305	.07300	.01100	.00280	-.03920	.00000	-.20510	-.18540	-.23100	-.23270	678.78000
-.144	6.315	.08930	.01370	.00340	-.04450	.00000	-.20350	-.18280	-.22990	-.23040	678.78000
	GRADIENT	.00822	.00137	.00030	-.00447	.00000	-.00183	.00245	.00068	.00067	.02847

RUN NO. 197/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.648	-5.348	.01410	.00010	.00130	.02570	.00000	-.18680	-.21040	-.22120	-.24720	678.33000
3.678	-3.362	.03190	.00290	.00240	.01400	.00000	-.18810	-.20280	-.21810	-.24410	679.23000
3.624	.565	.06560	.00880	.00280	-.00960	.00000	-.20010	-.18950	-.22640	-.23800	679.45000
3.630	4.415	.10280	.01480	.00540	-.02720	.00000	-.20660	-.18020	-.22520	-.23610	677.88000
3.658	6.390	.11780	.01780	.00550	-.02840	.00000	-.20070	-.17490	-.22240	-.23600	678.55000
	GRADIENT	.00913	.00154	.00038	-.00530	.00000	-.00238	.00291	-.00092	.00103	-.17283

IA138 AMES 246-1-97 OTS POWER OFF (R3D025) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 108/ 0 RN/L = 2.87 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.013	-6.047	-.00720	-.00200	.00230	-.01890	-.05750	-.14920	-.16890	-.19020	-.18190	547.41000
-4.004	-4.093	.00220	-.00050	.00320	-.02970	-.05910	-.16570	-.16510	-.18880	-.18210	547.41000
-3.927	-.197	.02040	.00260	.00400	-.04930	-.06490	-.16370	-.15460	-.18480	-.18410	547.41000
-3.918	3.661	.04220	.00630	.00490	-.06520	-.06550	-.17030	-.14250	-.18020	-.18230	547.59000
-3.939	5.654	.05130	.00800	.00490	-.06740	-.06330	-.16920	-.14060	-.17850	-.17900	547.59000
	GRADIENT	.00516	.00088	.00022	-.00458	-.00083	-.00059	.00291	.00111	-.00003	.02317

RUN NO. 109/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.136	-6.015	.00570	-.00030	.00180	.00060	-.03870	-.15720	-.16680	-.18850	-.19030	547.59000
-.102	-.092	.03730	.00480	.00310	-.03210	-.05400	-.16280	-.15440	-.18500	-.18820	547.41000
-.050	4.012	.06300	.00940	.00300	-.04910	-.05920	-.16960	-.14400	-.18240	-.18480	547.59000
-.037	6.000	.07560	.01160	.00320	-.05440	-.05650	-.16890	-.13990	-.18200	-.18430	547.41000
	GRADIENT	.00626	.00112	-.00002	-.00414	-.00127	-.00166	.00253	.00063	.00083	.04385

RUN NO. 110/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.737	-6.082	.01570	.00080	.00030	.01920	-.03260	-.15310	-.16680	-.18460	-.19270	547.41000
3.772	-4.100	.02660	.00250	.00080	.01070	-.03840	-.15610	-.16120	-.18110	-.18820	547.41000
3.721	-.178	.05040	.00650	.00170	-.01010	-.04460	-.16260	-.15480	-.18300	-.18540	547.41000
3.727	3.664	.08180	.01200	.00240	-.02910	-.05150	-.17280	-.14460	-.18370	-.18470	547.41000
3.759	5.636	.10020	.01500	.00390	-.03470	-.04990	-.16330	-.13940	-.18000	-.18430	547.23000
	GRADIENT	.00711	.00122	.00021	-.00513	-.00169	-.00215	.00214	-.00034	.00045	.00000

IA138 AMES 246-1-97 OTS POWER OFF (R3D026) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 209/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.349	-5.652	-.02320	-.00440	.00050	.02090	-.03000	-.19020	-.21590	-.23730	-.22240	679.45000
-4.439	-3.628	-.01200	-.00230	.00070	.00510	-.03360	-.19300	-.21460	-.24210	-.22680	678.11000
-4.474	.618	.01550	.00260	.00160	-.01990	-.04460	-.20760	-.20160	-.23750	-.23500	679.00000
-4.262	4.780	.04820	.00790	.00350	-.03340	-.05000	-.20930	-.19120	-.23510	-.23430	679.68000
-4.184	6.792	.06140	.01020	.00360	-.04080	-.04500	-.20690	-.16800	-.23660	-.23060	679.00000
	GRADIENT	.00716	.00121	.00033	-.00458	-.00195	-.00194	.00278	.00083	-.00090	.18680

RUN NO. 210/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.175	-5.274	-.00580	-.00160	.00000	.03170	-.01110	-.19410	-.21750	-.24190	-.24330	678.78000
-.148	-3.299	.00940	.00090	.00080	.02030	-.02190	-.19270	-.21150	-.24200	-.24470	678.78000
-.153	.658	.04250	.00620	.00160	-.00310	-.03370	-.20390	-.20120	-.24010	-.24140	679.00000
-.092	4.757	.07540	.01200	.00230	-.01900	-.04340	-.20440	-.19270	-.23500	-.23800	678.78000
-.079	6.743	.09080	.01460	.00270	-.02640	-.04370	-.20480	-.18970	-.23510	-.23770	678.78000
	GRADIENT	.00819	.00138	.00019	-.00487	-.00267	-.00144	.00233	.00087	.00083	-.00032

RUN NO. 211/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.838	-5.692	.00520	-.00030	-.00140	.05070	-.00460	-.19220	-.21790	-.23140	-.24830	678.55000
3.930	-3.713	.02230	.00240	-.00030	.03970	-.01280	-.19140	-.21230	-.22790	-.24530	678.78000
4.049	.487	.06170	.00900	.00020	.01360	-.02380	-.20230	-.19920	-.23620	-.23960	678.78000
3.961	4.663	.10080	.01570	.00290	-.00680	-.03170	-.20670	-.18800	-.23180	-.23860	678.55000
3.927	6.690	.11610	.01980	.00300	-.00870	-.03160	-.20200	-.18270	-.22900	-.23880	679.00000
	GRADIENT	.00937	.00159	.00038	-.00555	-.00226	-.00183	.00290	-.00047	.00080	-.02743

IA138 AMES 246-1-97 OTS POWER OFF (R3D027) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 838.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 222/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.016	-6.048	-.01730	-.00330	-.00130	.00970	-.02340	-.15600	-.17630	-.19840	-.18860	549.15000
-4.005	-4.094	-.00910	-.00180	-.00060	-.00290	-.03120	-.16040	-.17120	-.19850	-.18900	549.15000
-3.928	-.197	.01180	.00150	.00070	-.02580	-.03940	-.16730	-.16200	-.19460	-.19040	549.15000
-3.923	3.665	.03320	.00500	.00180	-.04240	-.04290	-.17340	-.15130	-.18680	-.18590	548.97000
-3.944	5.657	.04190	.00650	.00210	-.04390	-.04170	-.17290	-.14970	-.18690	-.18290	548.97000
	GRADIENT	.00545	.00088	.00031	-.00509	-.00151	-.00168	.00256	.00151	.00040	-.02317

RUN NO. 221/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.146	-6.445	-.00700	-.00210	-.00080	.02820	-.02660	-.16020	-.17780	-.19730	-.19950	549.15000
-.152	-4.506	.00510	-.00030	.00040	.01660	-.03260	-.16640	-.17320	-.19560	-.19640	549.15000
-.136	-.477	.02560	.00310	.00100	-.00930	-.04050	-.17080	-.16500	-.19410	-.19620	548.97000
-.115	3.562	.05080	.00730	.00170	-.02890	-.04560	-.17050	-.15630	-.19110	-.19230	548.97000
-.099	5.571	.06410	.00950	.00220	-.03480	-.04310	-.16950	-.15340	-.19060	-.19200	549.15000
	GRADIENT	.00566	.00094	.00016	-.00564	-.00161	-.00051	.00209	.00056	.00051	-.02230

RUN NO. 220/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.685	-6.086	.01140	-.00010	.00150	.03930	-.03220	-.15680	-.17850	-.19480	-.20370	549.51000
3.717	-4.101	.02180	.00150	.00180	.03010	-.03680	-.15520	-.17230	-.19110	-.20020	549.70000
3.666	-.177	.04610	.00550	.00250	.00820	-.04260	-.16300	-.16690	-.19090	-.19710	549.15000
3.674	3.670	.07370	.01050	.00260	-.01180	-.04760	-.16740	-.15590	-.18890	-.19180	549.15000
3.705	5.645	.09180	.01340	.00400	-.01860	-.04590	-.16720	-.15150	-.18450	-.19220	549.15000
	GRADIENT	.00668	.00116	.00010	-.00539	-.00139	-.00157	.00211	.00028	.00108	-.07100

IA138 AMES 246-1-97 OTS POWER OFF (R3D028) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 181/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.326	-5.652	-.02100	-.00450	.00320	.02090	-.03660	-.18570	-.21630	-.23830	-.22270	679.68000
-4.424	-3.636	-.01000	-.00240	.00340	.00570	-.03970	-.19550	-.21350	-.24090	-.22530	678.33000
-4.563	.400	.01350	.00180	.00410	-.01740	-.05050	-.19990	-.19880	-.23490	-.23180	679.00000
-4.245	4.785	.05080	.00790	.00610	-.03350	-.05800	-.20740	-.18800	-.23160	-.23040	679.45000
-4.171	6.799	.06340	.01010	.00620	-.04130	-.05430	-.20030	-.18500	-.23350	-.22670	679.23000
	GRADIENT	.00724	.00123	.00032	-.00464	-.00217	-.00142	.00302	.00110	-.00059	.13257

RUN NO. 182/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.173	-5.279	-.00280	-.00170	.00280	.03190	-.01620	-.18550	-.21520	-.23930	-.24030	679.68000
-.145	-3.302	.01210	.00080	.00370	.02030	-.02800	-.18790	-.20990	-.24010	-.24310	679.45000
-.152	.663	.04460	.00610	.00420	-.00330	-.04090	-.20030	-.19930	-.23800	-.23950	679.00000
-.091	4.760	.07770	.01180	.00510	-.01940	-.05040	-.20330	-.19020	-.23170	-.23430	677.88000
-.078	6.751	.09340	.01450	.00550	-.02610	-.05110	-.20090	-.18660	-.23160	-.23360	679.00000
	GRADIENT	.00814	.00136	.00017	-.00492	-.00278	-.00190	.00244	.00104	.00109	-.19519

RUN NO. 183/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.838	-5.693	.00900	-.00030	.00160	.05080	-.00950	-.18500	-.21520	-.22820	-.24550	679.45000
3.931	-3.714	.02510	.00230	.00240	.03950	-.01870	-.18500	-.20970	-.22450	-.24230	679.23000
4.049	.489	.06420	.00890	.00290	.01380	-.03040	-.19740	-.19650	-.23220	-.23560	679.23000
3.962	4.668	.10280	.01540	.00560	-.00720	-.03930	-.20240	-.18640	-.22980	-.23690	679.23000
3.928	6.697	.11870	.01860	.00570	-.00890	-.03810	-.19830	-.18080	-.22680	-.23670	679.23000
	GRADIENT	.00927	.00156	.00038	-.00557	-.00246	-.00208	.00278	-.00063	.00065	-.00000

IA138 AMES 246-I-97 OTS POWER OFF (R3D029) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 192/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.018	-6.049	-.01380	-.00330	.00130	.00870	-.02830	-.15450	-.17470	-.19630	-.18630	548.97000
-4.008	-4.084	-.00420	-.00180	.00230	-.00350	-.03570	-.15890	-.16940	-.19700	-.18720	549.15000
-3.929	-.194	.01500	.00160	.00310	-.02660	-.04350	-.16920	-.15880	-.19140	-.18670	548.97000
-3.928	3.668	.03590	.00510	.00400	-.04350	-.04730	-.18010	-.14840	-.18450	-.18310	549.15000
-3.945	5.662	.04590	.00670	.00440	-.04540	-.04550	-.17000	-.14940	-.18720	-.18290	548.97000
	GRADIENT	.00517	.00089	.00022	-.00515	-.00150	-.00273	.00271	.00161	.00053	-.00007

RUN NO. 191/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.146	-6.447	-.00550	-.00220	.00100	.02780	-.02960	-.15640	-.17670	-.19590	-.19880	549.15000
-.152	-4.509	.00740	-.00050	.00250	.01620	-.03590	-.15880	-.17050	-.19270	-.19350	549.15000
-.135	-.477	.02790	.00310	.00310	-.00990	-.04560	-.16420	-.16400	-.19320	-.19460	549.15000
-.114	3.567	.05240	.00730	.00340	-.03010	-.05070	-.16350	-.15270	-.18810	-.18930	548.97000
-.098	5.575	.06480	.00950	.00360	-.03620	-.04840	-.16480	-.15020	-.18810	-.18870	548.97000
	GRADIENT	.00557	.00097	.00011	-.00573	-.00183	-.00058	.00220	.00057	.00052	-.02230

RUN NO. 190/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.688	-6.087	.01400	-.00020	.00370	.03910	-.03430	-.15080	-.17570	-.19170	-.20130	548.24000
3.720	-4.102	.02410	.00130	.00380	.02980	-.03900	-.15670	-.17180	-.19040	-.19980	549.15000
3.669	-.174	.04770	.00530	.00440	.00760	-.04740	-.17310	-.16750	-.19130	-.19780	548.97000
3.675	3.674	.07630	.01040	.00460	-.01250	-.05210	-.16630	-.15370	-.18640	-.18930	549.15000
3.705	5.649	.09280	.01320	.00550	-.01940	-.04970	-.17030	-.15030	-.18390	-.19140	549.15000
	GRADIENT	.00671	.00117	.00010	-.00544	-.00169	-.00124	.00232	.00051	.00135	-.00016

IA138 AMES 246-1-97 OTS POWER OFF (R30030) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 201/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.284	-6.392	-.01340	-.00270	.00380	.01010	-.06140	-.14860	-.16940	-.18780	-.16020	544.06000
-4.387	-4.373	-.00460	-.00130	.00440	-.00350	-.06300	-.16480	-.17010	-.19320	-.18610	549.33000
-4.418	-.124	.01550	.00210	.00540	-.03060	-.06820	-.16800	-.16130	-.18970	-.18880	550.61000
-4.218	4.035	.03870	.00590	.00630	-.04520	-.07070	-.17600	-.15410	-.18700	-.18970	549.51000
-4.143	6.050	.04760	.00760	.00610	-.04930	-.06910	-.17650	-.15510	-.19040	-.19040	549.70000
	GRADIENT	.00515	.00086	.00023	-.00496	-.00092	-.00133	.00190	.00074	-.00043	.02242

RUN NO. 202/ 0 RN/L = 2.88 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.148	-6.442	.00280	-.00080	.00410	.02750	-.04900	-.15820	-.17670	-.19280	-.19530	547.33000
-.155	-4.504	.01210	.00060	.00430	.01560	-.05110	-.16160	-.17440	-.19590	-.19500	547.51000
-.136	-.474	.02980	.00390	.00400	-.01030	-.05760	-.16900	-.16510	-.19170	-.19450	547.33000
-.115	3.562	.05450	.00820	.00400	-.03060	-.06290	-.17020	-.15620	-.19030	-.19250	548.42000
-.099	5.570	.06650	.01030	.00400	-.03710	-.05900	-.17230	-.15500	-.19140	-.19370	548.61000
	GRADIENT	.00526	.00094	-.00004	-.00573	-.00146	-.00107	.00226	.00069	.00031	.11286

RUN NO. 203/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.683	-6.437	.00900	-.00010	.00150	.04170	-.03840	-.15780	-.17660	-.18930	-.19890	548.61000
3.980	-4.459	.01970	.00160	.00140	.03310	-.04320	-.16450	-.17490	-.19000	-.19710	548.61000
4.100	-.254	.04530	.00500	.00180	.01030	-.04800	-.16750	-.16420	-.18660	-.19040	548.79000
4.013	3.922	.07700	.01160	.00290	-.01170	-.05460	-.17180	-.15560	-.18870	-.19060	548.79000
3.980	5.947	.09500	.01460	.00400	-.01900	-.05280	-.17440	-.15220	-.18670	-.19190	548.79000
	GRADIENT	.00684	.00119	.00018	-.00535	-.00136	-.00087	.00230	.00016	.00078	.02150

IA138 AMES 246-1-97 OTS POWER ON (R3D031) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.262 SSMEPR = 372.504
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 35/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.131	-7.818	-.06780	-.01200	-.01090	.01550	.01680	-.17560	-.18690	-.14390	-.09500	910.06000
-4.125	-5.845	-.04710	-.00810	-.00990	.00470	.00600	-.17540	-.17640	-.13490	-.08600	910.06000
-4.110	-3.862	-.02260	-.00380	-.00800	-.00570	-.00230	-.17780	-.16930	-.12740	-.06570	910.36000
-4.025	.036	.02840	.00540	-.00550	-.02370	-.01140	-.18140	-.17340	-.10420	-.04490	910.36000
-4.026	3.902	.07520	.01370	-.00180	-.03920	-.01480	-.18130	-.17080	-.07940	-.02250	910.66000
	GRADIENT	.01260	.00225	.00080	-.00432	-.00161	-.00045	-.00019	.00618	.00556	.03859

RUN NO. 36/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.293	-7.785	-.03900	-.00730	-.00930	.01640	.03140	-.17890	-.16770	-.09860	-.10030	910.06000
-.269	-5.815	-.01640	-.00310	-.00830	.00980	.01980	-.18590	-.15160	-.09000	-.09230	909.76000
-.253	-3.810	.01000	.00160	-.00730	.00120	.00650	-.18900	-.14160	-.08660	-.09260	910.36000
-.193	.148	.06560	.01140	-.00420	-.01350	-.00680	-.18560	-.13680	-.08070	-.08710	910.06000
-.193	4.252	.11750	.02090	-.00030	-.02890	-.01230	-.17690	-.13550	-.05470	-.06660	910.36000
	GRADIENT	.01333	.00239	.00087	-.00373	-.00233	.00150	.00075	.00397	.00324	.00045

RUN NO. 37/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.631	-7.857	-.01210	-.00280	-.00900	.01430	.04290	-.18590	-.17250	-.09980	-.13390	910.66000
3.672	-5.874	.01540	.00220	-.00770	.00920	.03360	-.18920	-.16070	-.08800	-.11680	910.36000
3.677	-3.873	.04410	.00730	-.00620	.00260	.02320	-.19530	-.14610	-.07580	-.11620	910.66000
3.622	.054	.10300	.01770	-.00220	-.00610	.00210	-.19360	-.13470	-.05980	-.10790	910.66000
3.631	3.904	.15280	.02600	.00440	-.01370	-.01010	-.18270	-.13150	-.03180	-.08290	910.66000
	GRADIENT	.01398	.00241	.00136	-.00210	-.00429	.00162	.00188	.00565	.00427	-.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8100 INCHES YMRP = .0000 IN. YQ
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZQ
SCALE = .0100

PARAMETRIC DATA

SRSPR = 874.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 38/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.084	-5.827	-.03160	-.00570	-.00850	-.02080	.00290	-.11550	-.13100	-.07570	-.02270	843.27000
-4.071	-3.876	-.01320	-.00260	-.00660	-.02800	-.00460	-.11830	-.11610	-.07240	-.00950	843.55000
-3.988	.021	.02450	.00380	-.00460	-.04390	-.02210	-.13960	-.09880	-.05310	-.00870	842.99000
-3.984	3.885	.06190	.01040	-.00150	-.06120	-.03060	-.13200	-.12120	-.04560	.00610	843.27000
-4.007	5.882	.08030	.01370	-.00050	-.07020	-.02800	-.14020	-.12230	-.04380	.01680	842.99000
	GRADIENT	.00968	.00167	.00066	-.00428	-.00335	-.00177	-.00065	.00346	.00201	-.03623

RUN NO. 39/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.221	-5.834	-.00740	-.00220	-.00670	-.01600	.00630	-.10860	-.10240	-.05470	-.04000	842.99000
-.205	-3.826	.01200	.00130	-.00580	-.02230	-.00190	-.11280	-.09430	-.03910	-.03260	842.99000
-.155	.133	.05410	.00850	-.00390	-.03720	-.01410	-.12470	-.08070	-.03850	-.03470	842.99000
-.142	4.238	.10170	.01660	-.00060	-.04830	-.02960	-.13030	-.07700	-.03450	-.03530	842.99000
-.133	6.226	.12110	.02010	.00040	-.05680	-.03430	-.13320	-.08180	-.02520	-.02330	842.71000
	GRADIENT	.01113	.00190	.00065	-.00322	-.00344	-.00217	.00214	.00057	-.00033	.00000

RUN NO. 40/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.693	-5.874	.01660	.00150	-.00580	-.00700	.01350	-.12570	-.10170	-.03220	-.06720	843.27000
3.721	-3.889	.04030	.00550	-.00460	-.01190	.00560	-.12650	-.09230	-.02190	-.06250	843.27000
3.665	.041	.08960	.01370	-.00180	-.02450	-.01020	-.13340	-.07800	-.02180	-.06440	843.27000
3.671	3.888	.13420	.02140	.00130	-.03400	-.02100	-.13780	-.07390	-.01140	-.05530	842.99000
3.702	5.867	.15220	.02480	.00240	-.03680	-.02490	-.14490	-.07120	-.00030	-.05260	842.99000
	GRADIENT	.01208	.00204	.00076	-.00284	-.00342	-.00145	.00237	.00135	.00092	-.03588

IA138 AMES 246-1-97 OTS POWER ON (R3D033) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.703 SSMEPR = 745.648
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 44/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.077	-5.339	-.00930	-.00270	-.00440	-.05010	-.01810	-.05400	-.06780	-.04270	.00750	678.33000
-4.060	-3.357	.00330	-.00050	-.00320	-.05840	-.02480	-.05840	-.06040	-.04410	.01180	678.10000
-3.964	.543	.03120	.00420	-.00120	-.07580	-.03700	-.07910	-.06330	-.01970	.00970	678.33000
-3.968	4.405	.05860	.00880	.00080	-.08560	-.04200	-.07870	-.05860	-.00890	.02040	677.88000
-3.988	6.400	.06900	.01080	.00030	-.09520	-.03570	-.08440	-.05920	-.01170	.03390	678.33000
	GRADIENT	.00712	.00120	.00052	-.00351	-.00222	-.00262	.00023	.00454	.00111	-.02820

RUN NO. 45/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.175	-5.318	.01000	-.00010	-.00250	-.03540	-.00980	-.04690	-.05630	-.02770	-.00070	678.33000
-.158	-3.307	.02420	.00230	-.00170	-.04040	-.01960	-.06110	-.04660	-.02540	.00270	678.10000
-.150	.659	.05500	.00760	-.00080	-.05840	-.03380	-.09020	-.04160	-.00870	-.00060	678.10000
-.094	4.756	.08800	.01320	.00000	-.06910	-.04280	-.08770	-.02730	.00780	.00940	678.33000
-.081	6.745	.10270	.01580	.00000	-.07440	-.04130	-.08390	-.02850	.01560	.02020	678.33000
	GRADIENT	.00791	.00135	.00021	-.00355	-.00287	-.00328	.00240	.00412	.00084	.02868

RUN NO. 46/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.728	-5.371	.02890	.00200	-.00190	-.01470	-.01260	-.07400	-.04350	.00320	-.03010	678.33000
3.733	-3.368	.04170	.00440	-.00180	-.02220	-.02000	-.08050	-.02900	.01940	-.02090	678.33000
3.684	.562	.07440	.01030	-.00160	-.03870	-.02990	-.09300	-.02560	.00840	-.01980	678.33000
3.683	4.406	.11130	.01650	.00060	-.05400	-.03670	-.09750	-.01770	.01780	-.01400	678.33000
3.713	6.386	.12660	.01940	.00060	-.05490	-.03380	-.08690	-.01910	.03210	-.01080	678.55000
	GRADIENT	.00895	.00156	.00031	-.00409	-.00215	-.00219	.00145	-.00022	.00089	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D034) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 750.050 SSMEPR = 1331.316
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 55/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.030	-8.056	-.00740	-.00290	-.00320	-.04970	-.02960	-.04240	-.02190	-.01370	.01560	548.97000
-4.025	-6.084	.00360	-.00130	-.00130	-.05490	-.03760	-.04270	-.02320	-.01040	.03270	548.97000
-4.011	-4.103	.01210	.00010	-.00020	-.06270	-.04200	-.04600	-.02300	-.00870	.03720	548.97000
-3.927	-.202	.02900	.00300	.00140	-.07900	-.04910	-.05010	-.02040	.00360	.03450	548.97000
-3.926	3.663	.04860	.00640	.00220	-.09630	-.05130	-.05430	-.00450	.00930	.03260	548.97000
-3.946	5.659	.05760	.00800	.00190	-.09860	-.04780	-.05240	.00170	.00970	.04440	548.97000
	GRADIENT	.00470	.00081	.00031	-.00433	-.00120	-.00107	.00238	.00232	-.00059	.00000

RUN NO. 54/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.129	-6.060	.01450	.00000	-.00140	-.03450	-.03390	-.04030	-.00550	.01740	.02030	548.97000
-.113	-4.051	.02670	.00170	.00010	-.04220	-.03990	-.04110	-.00430	.01820	.02520	548.97000
-.105	-.080	.04250	.00490	.00000	-.05810	-.04830	-.04640	-.00720	.02370	.02650	548.97000
-.049	4.016	.06730	.00930	-.00010	-.07410	-.05150	-.05100	.00180	.03250	.03800	548.97000
-.036	6.006	.07930	.01130	.00010	-.07960	-.04740	-.05050	.01530	.04290	.03640	548.97000
	GRADIENT	.00504	.00094	-.00002	-.00395	-.00143	-.00123	.00076	.00177	.00159	.00000

RUN NO. 53/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.775	-4.111	.03320	.00260	-.00170	-.02180	-.03620	-.05960	.01250	.04060	.00460	548.79000
3.727	-.182	.05740	.00660	-.00030	-.03420	-.04280	-.05870	.00270	.03250	.00730	548.97000
3.734	3.664	.08540	.01170	-.00010	-.05310	-.04750	-.07200	.01060	.02990	.00420	548.97000
3.763	5.642	.10190	.01460	.00060	-.05770	-.04700	-.05930	.01940	.05010	.01430	548.97000
	GRADIENT	.00671	.00117	.00021	-.00402	-.00145	-.00159	-.00025	-.00138	-.00005	.02323

IA138 AMES 246-1-97 OTS POWER ON (R3D035) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.113 SSMEPR = 481.102
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 63/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.327	-6.181	-.03950	-.00720	-.00800	-.02450	.01140	-.11900	-.13620	-.08210	-.02710	845.22000
-4.429	-4.164	-.02070	-.00410	-.00590	-.03310	.00000	-.12090	-.11940	-.07520	-.01320	845.22000
-4.467	.093	.01740	.00250	-.00360	-.05070	-.01940	-.13140	-.11290	-.06160	-.00450	845.22000
-4.260	4.259	.05960	.00990	-.00040	-.07070	-.02680	-.13560	-.12650	-.04820	.00680	845.22000
-4.183	6.273	.07990	.01340	.00090	-.07890	-.02350	-.14290	-.12670	-.04670	.01560	845.50000
	GRADIENT	.00953	.00165	.00065	-.00446	-.00319	-.00175	-.00083	.00321	.00237	-.00000

RUN NO. 62/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.185	-5.799	-.01600	-.00340	-.00730	-.02030	.01390	-.11130	-.10400	-.05530	-.04210	844.94000
-.159	-3.829	.00750	.00060	-.00520	-.02720	.00210	-.11520	-.09560	-.04000	-.03540	844.94000
-.164	.136	.04940	.00770	-.00310	-.04300	-.01130	-.12680	-.08210	-.04020	-.03700	845.22000
-.104	4.238	.09750	.01580	.00030	-.05440	-.02560	-.13300	-.08070	-.03680	-.03860	845.22000
-.090	6.227	.11760	.01920	.00120	-.06270	-.03050	-.13460	-.08320	-.02580	-.02670	845.22000
	GRADIENT	.01116	.00188	.00068	-.00337	-.00343	-.00220	.00184	.00040	-.00040	.03451

RUN NO. 61/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.889	-6.218	.01070	.00020	-.00470	-.00930	.01530	-.12960	-.10760	-.03640	-.07530	844.94000
3.983	-4.243	.03600	.00440	-.00320	-.01540	.00760	-.13320	-.09660	-.02500	-.06670	845.50000
4.100	-.036	.08790	.01310	-.00060	-.02780	-.00790	-.13880	-.08400	-.02430	-.06940	845.22000
4.015	4.142	.13570	.02140	.00280	-.03920	-.01990	-.14120	-.07810	-.01150	-.05830	845.22000
3.983	6.173	.15070	.02440	.00330	-.04190	-.02310	-.14660	-.07470	-.00220	-.05620	845.22000
	GRADIENT	.01189	.00203	.00072	-.00284	-.00328	-.00095	.00221	.00161	.00100	-.03343

IA138 AMES 246-1-97 OTS POWER ON (R3D036) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.854 SSMEPR = 744.415
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 64/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.317	-5.659	-.01750	-.00390	-.00400	-.05450	-.00890	-.05560	-.06980	-.04610	.00480	680.13000
-4.417	-3.638	-.00440	-.00170	-.00280	-.06460	-.01810	-.05910	-.06280	-.04510	.01160	679.68000
-4.453	.615	.02460	.00330	-.00070	-.08490	-.03260	-.07910	-.06460	-.01990	.00990	679.68000
-4.243	4.780	.05490	.00840	.00150	-.09500	-.03970	-.07860	-.05630	-.00600	.02150	679.90000
-4.168	6.796	.06840	.01070	.00180	-.10230	-.03640	-.08260	-.05750	-.01120	.03750	679.90000
	GRADIENT	.00703	.00120	.00051	-.00361	-.00257	-.00232	.00077	.00465	.00117	.02604

RUN NO. 65/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.188	-5.281	.00490	-.00080	-.00200	-.04010	-.00450	-.05630	-.05510	-.02610	-.00300	679.90000
-.162	-3.307	.02010	.00160	-.00090	-.04510	-.01630	-.05800	-.04590	-.00430	.00310	679.68000
-.149	.652	.05060	.00690	-.00020	-.06460	-.03010	-.08890	-.04080	-.00780	.00070	680.13000
-.098	4.760	.08350	.01250	.00060	-.07610	-.03740	-.08890	-.02910	.00500	.00670	679.68000
-.085	6.750	.09870	.01510	.00080	-.08100	-.03700	-.08430	-.02880	.01610	.01970	679.90000
	GRADIENT	.00786	.00135	.00019	-.00384	-.00261	-.00381	.00209	.00117	.00045	-.00069

RUN NO. 66/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.901	-5.694	.01770	.00060	-.00310	-.01760	-.00070	-.07450	-.04460	.00180	-.03090	679.90000
3.995	-3.720	.03480	.00320	-.00140	-.02520	-.01190	-.07980	-.03120	.01630	-.02140	679.90000
4.111	.486	.07240	.00980	-.00140	-.04110	-.02560	-.08940	-.02610	.00860	-.02090	679.68000
4.020	4.664	.10910	.01620	.00090	-.05860	-.03350	-.09480	-.02040	.01890	-.01460	679.90000
3.988	6.696	.12390	.01930	.00050	-.05930	-.03140	-.08810	-.02240	.03350	-.01360	679.90000
	GRADIENT	.00886	.00155	.00027	-.00398	-.00258	-.00179	.00129	.00031	.00081	-.00006

IA138 AMES 246-1-97 OTS POWER ON (R3D037) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 747.175 SSMEPR = 1328.316
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 75/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.018	-6.051	-.00090	-.00190	-.00150	-.06270	-.02600	-.04570	-.02400	-.01060	.03140	550.24000
-4.008	-4.099	.00820	-.00040	-.00020	-.07030	-.03440	-.04750	-.02060	-.00590	.03870	550.24000
-3.928	-.199	.02670	.00280	.00160	-.08660	-.04420	-.05040	-.01920	.00580	.03580	550.24000
-3.924	3.663	.04650	.00610	.00240	-.10340	-.04880	-.05560	-.00340	.01140	.03370	550.24000
-3.946	5.659	.05630	.00780	.00260	-.10630	-.04630	-.05270	.00310	.01240	.04640	550.24000
	GRADIENT	.00493	.00084	.00034	-.00426	-.00186	-.00104	.00221	.00223	-.00064	-.00000

RUN NO. 74/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.145	-6.448	.01160	-.00060	-.00020	-.03940	-.02860	-.04640	-.00950	.01400	.01720	550.24000
-.152	-4.511	.02270	.00100	.00090	-.04700	-.03480	-.04450	-.00580	.01680	.02500	550.06000
-.133	-.481	.03840	.00420	.00090	-.06410	-.04420	-.05100	-.00840	.02190	.02610	550.24000
-.114	3.558	.06270	.00830	.00070	-.08080	-.04490	-.05820	-.00170	.02980	.03370	550.24000
-.099	5.571	.07370	.01040	.00060	-.08750	-.04570	-.04990	.01420	.03940	.03950	550.06000
	GRADIENT	.00496	.00090	-.00002	-.00419	-.00125	-.00170	.00051	.00161	.00108	.02230

RUN NO. 73/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.745	-6.091	.02040	.00040	-.00150	-.02380	-.02730	-.06340	.00730	.02500	-.00410	550.24000
3.776	-4.108	.03100	.00210	-.00080	-.02880	-.03290	-.06170	.01290	.04070	.00430	550.24000
3.726	-.180	.05350	.00600	.00010	-.04110	-.04080	-.06000	.00420	.03420	.00940	550.24000
3.733	3.670	.08230	.01110	.00050	-.05970	-.04570	-.07400	.01110	.03040	.00500	550.24000
3.763	5.647	.09850	.01400	.00120	-.06510	-.04660	-.06400	.01870	.04890	.01370	550.06000
	GRADIENT	.00659	.00116	.00017	-.00397	-.00165	-.00157	-.00024	-.00133	.00009	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D038) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 195.714 SSMEPR = 372.069
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 82/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.132	-7.818	-.06840	-.01320	-.00800	.01400	.04200	-.17590	-.18690	-.14440	-.09520	913.07000
-4.127	-5.845	-.05170	-.00990	-.00760	.00350	.02960	-.17370	-.17540	-.13520	-.08530	913.07000
-4.112	-3.862	-.02820	-.00540	-.00640	-.00730	.02070	-.17840	-.17110	-.12790	-.06630	913.37000
-4.032	.039	.02240	.00360	-.00360	-.02530	.00940	-.18340	-.17460	-.10550	-.04640	913.37000
-4.025	3.905	.07230	.01230	.00020	-.04310	.00390	-.18250	-.17400	-.08010	-.02420	913.37000
	GRADIENT	.01294	.00228	.00085	-.00461	-.00216	-.00053	-.00037	.00615	.00542	.00000

RUN NO. 81/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.315	-8.184	-.04890	-.00990	-.00740	.01600	.05440	-.17800	-.17590	-.10740	-.10480	913.37000
-.323	-6.257	-.02830	-.00590	-.00680	.01040	.04410	-.18690	-.15560	-.09110	-.09650	913.07000
-.314	-4.272	-.00150	-.00120	-.00580	.00110	.03030	-.19200	-.14690	-.09060	-.09250	913.37000
-.263	-.230	.05470	.00870	-.00260	-.01430	.01180	-.18860	-.13930	-.08560	-.09000	913.68000
-.258	3.804	.11100	.01850	.00180	-.02870	.00390	-.17930	-.14010	-.06170	-.07180	913.37000
	GRADIENT	.01393	.00244	.00094	-.00369	-.00327	.00157	.00084	.00358	.00256	.00002

RUN NO. 80/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.774	-8.200	-.02240	-.00530	-.00720	.01500	.06550	-.18790	-.17890	-.10110	-.13970	913.37000
3.855	-6.248	.00720	-.00010	-.00540	.00890	.05660	-.18940	-.16630	-.09270	-.12180	913.07000
3.944	-4.227	.03570	.00500	-.00410	.00120	.04660	-.19710	-.15160	-.08040	-.11960	913.07000
4.062	-.021	.10020	.01650	.00010	-.00740	.02230	-.19690	-.14040	-.06030	-.11440	913.37000
3.976	4.159	.15490	.02520	.00730	-.01560	.00680	-.18590	-.13550	-.03210	-.08740	913.07000
	GRADIENT	.01421	.00241	.00136	-.00200	-.00475	.00133	.00192	.00576	.00384	.00007

IA138 AMES 246-1-97 OTS POWER ON (R3D039) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.712 SSMEPR = 479.841
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 83/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.082	-5.833	-.02990	-.00650	-.00530	-.02340	.02150	-.11870	-.13460	-.07850	-.02560	846.21000
-4.073	-3.878	-.01680	-.00370	-.00500	-.03060	.01300	-.12070	-.11910	-.07460	-.01150	846.21000
-3.991	.023	.02000	.00260	-.00310	-.04660	-.00560	-.14170	-.10030	-.05400	-.01090	845.93000
-3.986	3.889	.05770	.00920	.00000	-.06420	-.01510	-.13340	-.12380	-.04840	.00270	845.93000
-4.005	5.883	.07630	.01250	.00120	-.07320	-.01210	-.14060	-.12540	-.04770	.01320	845.66000
	GRADIENT	.00959	.00166	.00064	-.00433	-.00362	-.00164	-.00060	.00338	.00183	-.03610

RUN NO. 84/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.210	-6.222	-.01760	-.00430	-.00590	-.01640	.02990	-.11180	-.10530	-.05660	-.04190	846.21000
-.216	-4.283	.00260	-.00070	-.00470	-.02470	.01830	-.11110	-.09780	-.04380	-.03540	846.21000
-.193	-.251	.04430	.00650	-.00290	-.03860	.00320	-.12510	-.08190	-.03980	-.03370	846.21000
-.173	3.791	.09010	.01420	.00050	-.05020	-.01230	-.13320	-.08040	-.03890	-.04050	845.93000
-.156	5.800	.11250	.01800	.00160	-.05840	-.01680	-.13230	-.08530	-.03060	-.02480	845.66000
	GRADIENT	.01084	.00185	.00064	-.00316	-.00379	-.00274	.00215	.00061	-.00063	-.03469

RUN NO. 85/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.686	-5.873	.00940	.00000	-.00500	-.00900	.03280	-.12590	-.10400	-.03350	-.06730	845.93000
3.718	-3.887	.03450	.00410	-.00320	-.01440	.02290	-.12700	-.09290	-.02270	-.06310	845.93000
3.671	.041	.08350	.01220	-.00030	-.02700	.00660	-.13480	-.07960	-.02330	-.06480	846.21000
3.675	3.894	.12840	.01990	.00280	-.03670	-.00600	-.13920	-.07500	-.01270	-.05710	846.21000
3.704	5.870	.14670	.02330	.00380	-.03970	-.00970	-.14670	-.07350	-.00330	-.05590	846.21000
	GRADIENT	.01207	.00203	.00077	-.00287	-.00372	-.00157	.00230	.00128	.00077	.03610

IA138 AMES 246-1-97 OTS POWER ON (R3D040) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 463.681 SSMEPR = 738.664
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 94/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.070	-5.310	-.01480	-.00370	-.00410	-.05260	-.00110	-.05580	-.07130	-.05040	-.00010	680.58000
-4.058	-3.358	-.00080	-.00140	-.00250	-.06120	-.01070	-.06030	-.06290	-.04880	.00720	680.80000
-3.975	.539	.02740	.00340	-.00050	-.07810	-.02400	-.07970	-.06430	-.02180	.00770	680.58000
-3.962	4.402	.05500	.00810	.00140	-.08950	-.02880	-.08000	-.06080	-.01150	.01740	680.80000
-3.983	6.394	.06780	.01030	.00180	-.09700	-.02760	-.08590	-.06100	-.01330	.03190	680.58000
	GRADIENT	.00719	.00122	.00050	-.00365	-.00233	-.00254	.00027	.00481	.00131	-.00008

RUN NO. 93/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.162	-5.314	.00290	-.00130	-.00280	-.03710	.00150	-.05100	-.05960	-.03260	-.00610	680.58000
-.148	-3.303	.01940	.00130	-.00100	-.04320	-.00900	-.06620	-.05020	-.00880	-.00290	680.58000
-.153	.656	.05160	.00670	.00040	-.06080	-.02200	-.09220	-.04490	-.01180	-.00420	680.58000
-.088	4.750	.08500	.01230	.00130	-.07260	-.03120	-.09110	-.03120	.00320	.00390	680.80000
-.074	6.735	.09950	.01490	.00150	-.07760	-.02940	-.08620	-.03200	.01180	.01440	680.58000
	GRADIENT	.00815	.00137	.00029	-.00365	-.00275	-.00307	.00237	.00150	.00085	.02747

RUN NO. 92/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.705	-5.352	.02200	.00100	-.00190	-.01790	.00530	-.07970	-.04790	-.00270	-.03700	680.80000
3.734	-3.368	.03630	.00340	-.00130	-.02560	-.00370	-.08430	-.03220	.01510	-.02760	680.58000
3.680	.559	.07000	.00930	-.00050	-.04160	-.01650	-.09580	-.02870	.00450	-.02550	680.58000
3.683	4.405	.10680	.01540	.00180	-.05670	-.02460	-.10140	-.02310	.01270	-.02090	680.58000
3.709	6.375	.12290	.01830	.00220	-.05780	-.02390	-.09160	-.02340	.02680	-.01780	680.58000
	GRADIENT	.00907	.00154	.00040	-.00400	-.00269	-.00220	.00117	-.00032	.00086	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D041) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 749.014 SSMEPR = 1316.871
ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 224/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.289	-6.392	-.00240	-.00140	.00100	-.05810	-.05700	-.04720	-.01530	-.00230	.04020	548.24000
-4.390	-4.373	.00610	.00000	.00210	-.06770	-.06000	-.04390	-.01770	-.00280	.04370	548.42000
-4.427	-.124	.02260	.00300	.00380	-.08800	-.06850	-.05310	-.02020	.00770	.03880	548.61000
-4.220	4.036	.04640	.00670	.00500	-.10220	-.07360	-.06010	-.00290	.01430	.03470	548.79000
-4.147	6.050	.05760	.00860	.00530	-.10730	-.07280	-.05230	.00420	.01310	.04690	548.79000
	GRADIENT	.00479	.00080	.00035	-.00410	-.00162	-.00193	.00175	.00204	-.00107	.04400

RUN NO. 225/ 0 RN/L = 2.91 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.147	-6.451	.01170	.00030	.00180	-.03820	-.03770	-.04270	-.00720	.01600	.01880	548.97000
-.156	-4.508	.02240	.00180	.00280	-.04580	-.04660	-.04350	-.00360	.02010	.02760	549.15000
-.136	-.477	.04110	.00510	.00330	-.06230	-.05630	-.04600	-.00790	.02340	.02750	549.33000
-.116	3.566	.06470	.00930	.00290	-.07910	-.06430	-.05540	-.00120	.03110	.03660	549.33000
-.100	5.574	.07620	.01140	.00280	-.08690	-.06340	-.05010	.01510	.04090	.04130	549.51000
	GRADIENT	.00524	.00093	.00001	-.00412	-.00219	-.00147	.00030	.00136	.00112	.02229

RUN NO. 226/ 0 RN/L = 2.89 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.883	-6.442	.02240	.00150	.00040	-.01950	-.03640	-.06000	.00740	.02470	-.00160	549.51000
3.982	-4.463	.03380	.00320	.00080	-.02440	-.04260	-.05790	.01550	.04190	.00730	549.33000
4.103	-.255	.05840	.00740	.00120	-.03660	-.04790	-.06040	.00770	.04050	.01080	549.51000
4.014	3.925	.08730	.01280	.00150	-.05600	-.05640	-.06680	.01850	.03840	.01210	549.33000
3.981	5.953	.10630	.01580	.00320	-.06160	-.05700	-.05500	.02550	.05720	.02270	549.33000
	GRADIENT	.00638	.00114	.00008	-.00377	-.00164	-.00106	.00036	-.00042	.00057	.00005

IA138 AMES 246-1-97 OTS POWER ON (R3D042) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.334 SSMEPR = 371.871
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 96/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.134	-7.808	-.05990	-.01120	-.01020	-.00580	-.00720	-.17830	-.19020	-.14610	-.09800	910.96000
-4.128	-5.843	-.04120	-.00760	-.00930	-.01640	-.01750	-.18060	-.17880	-.13870	-.08940	910.96000
-4.114	-3.858	-.01780	-.00330	-.00780	-.02750	-.02630	-.18510	-.17320	-.13110	-.06960	910.96000
-4.030	.042	.03260	.00570	-.00510	-.04460	-.03330	-.19010	-.17520	-.10730	-.04750	910.96000
-4.029	3.901	.08070	.01420	-.00130	-.06040	-.03660	-.18780	-.17530	-.08230	-.02330	911.27000
-4.043	5.900	.09920	.01770	-.00040	-.06500	-.03510	-.19020	-.17300	-.09460	-.02000	910.96000
	GRADIENT	.01269	.00226	.00084	-.00424	-.00133	-.00035	-.00027	.00629	.00597	.03988

RUN NO. 97/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.260	-8.170	-.03970	-.00760	-.00990	-.00190	.01390	-.18680	-.17450	-.10750	-.10830	910.66000
-.268	-6.245	-.01800	-.00370	-.00850	-.00730	.00310	-.19430	-.15710	-.09500	-.10340	910.66000
-.257	-4.262	.00990	.00110	-.00730	-.01750	-.01110	-.19820	-.14630	-.09370	-.09910	910.36000
-.240	-.230	.06460	.01080	-.00440	-.03300	-.02790	-.19290	-.13970	-.08670	-.09310	910.36000
-.211	3.803	.11550	.02020	-.00100	-.04710	-.02930	-.18820	-.14120	-.06310	-.07330	910.66000
-.195	5.815	.13520	.02390	.00080	-.05570	-.03120	-.18740	-.13870	-.05150	-.05920	910.36000
	GRADIENT	.01309	.00237	.00078	-.00367	-.00226	.00124	.00063	.00379	.00320	.03719

RUN NO. 98/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.769	-8.187	-.01300	-.00320	-.00940	-.00200	.03040	-.19530	-.18000	-.10530	-.14720	910.36000
3.851	-6.243	.01550	.00180	-.00770	-.00690	.02030	-.19440	-.16810	-.09510	-.12830	910.36000
3.941	-4.225	.04600	.00740	-.00660	-.01460	.01030	-.20060	-.15200	-.08210	-.12510	910.36000
4.057	-.019	.10980	.01860	-.00220	-.02370	-.01250	-.20290	-.14060	-.06110	-.11680	910.36000
3.969	4.158	.16310	.02710	.00530	-.03160	-.02650	-.19380	-.13530	-.03140	-.09020	910.66000
3.938	6.188	.17390	.02950	.00590	-.03570	-.02750	-.19450	-.13460	-.02840	-.09670	910.36000
	GRADIENT	.01397	.00235	.00142	-.00203	-.00439	.00081	.00199	.00605	.00416	.03574

IA138 AMES 246-1-97 OTS POWER ON (R3D043) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.808 SSMEPR = 475.914
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 107/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.273	-8.171	-.05040	-.00930	-.01020	-.02740	.00360	-.12820	-.14210	-.10090	-.04610	843.27000
-4.365	-6.202	-.03490	-.00650	-.01000	-.03940	-.00910	-.12150	-.13570	-.08000	-.02530	843.27000
-4.428	-4.157	-.01500	-.00310	-.00800	-.04800	-.01830	-.12120	-.12070	-.07540	-.01330	843.55000
-4.465	.096	.02490	.00370	-.00550	-.06550	-.03740	-.13730	-.11220	-.06120	-.00540	843.27000
-4.256	4.258	.06710	.01100	-.00230	-.08500	-.04580	-.14040	-.12560	-.04500	.00970	843.27000
-4.183	6.271	.08670	.01450	-.00100	-.09290	-.04050	-.14890	-.12550	-.04380	.01920	843.55000
	GRADIENT	.00976	.00168	.00068	-.00440	-.00327	-.00229	-.00057	.00361	.00273	-.03340

RUN NO. 106/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.204	-7.795	-.02950	-.00580	-.01030	-.02190	.01000	-.12290	-.11770	-.06790	-.05410	843.27000
-.177	-5.828	-.00690	-.00200	-.00880	-.03260	-.00360	-.11600	-.10380	-.05710	-.04440	843.27000
-.161	-3.822	.01590	.00180	-.00720	-.04030	-.01250	-.11740	-.09470	-.04240	-.03810	843.55000
-.164	.137	.05650	.00870	-.00530	-.05610	-.02630	-.13530	-.08230	-.04130	-.04020	843.55000
-.106	4.236	.10550	.01690	-.00190	-.06730	-.04250	-.14050	-.07930	-.03620	-.03900	843.55000
-.093	6.225	.12510	.02050	-.00100	-.07580	-.04710	-.14100	-.08150	-.02200	-.02660	843.27000
	GRADIENT	.01112	.00187	.00066	-.00335	-.00372	-.00286	.00190	.00077	-.00011	-.00000

RUN NO. 105/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.810	-8.207	-.00630	-.00270	-.00830	-.01100	.01490	-.13560	-.12210	-.05210	-.09180	844.66000
3.890	-6.256	.01670	.00120	-.00730	-.01950	.00380	-.13340	-.11080	-.04040	-.08070	846.06000
3.980	-4.238	.04220	.00550	-.00600	-.02490	-.00420	-.14180	-.09760	-.02880	-.07300	843.82000
4.097	-.035	.09370	.01430	-.00400	-.03880	-.01960	-.14410	-.08600	-.02670	-.07570	843.55000
4.010	4.140	.14130	.02250	-.00010	-.05090	-.03230	-.15250	-.07860	-.01190	-.06030	843.55000
3.980	6.171	.15700	.02550	.00080	-.05350	-.03710	-.15770	-.07460	-.00050	-.05570	843.27000
	GRADIENT	.01183	.00203	.00070	-.00310	-.00335	-.00128	.00227	.00202	.00151	-.03226

IA138 AMES 246-1-97 OTS POWER ON (R3D044) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.742 SSMEPR = 477.942
ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 148/ 0 RN/L = 3.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.332	-6.169	-.03510	-.00710	-.00730	-.03420	-.00670	-.11040	-.12510	-.07480	-.02220	842.43000
-4.431	-4.149	-.01780	-.00400	-.00610	-.04100	-.01290	-.11310	-.11260	-.06900	-.00800	842.43000
-4.466	.099	.02070	.00270	-.00380	-.05920	-.03210	-.12780	-.10880	-.05430	.00020	843.27000
-4.257	4.260	.06350	.01020	-.00070	-.07950	-.04020	-.13100	-.11960	-.03830	.01390	842.99000
-4.184	6.272	.08220	.01340	.00060	-.08770	-.03670	-.13800	-.12030	-.03810	.02330	842.99000
	GRADIENT	.00967	.00169	.00064	-.00458	-.00325	-.00213	-.00083	.00353	.00260	.06705

RUN NO. 149/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.208	-6.225	-.01030	-.00330	-.00650	-.02860	.00810	-.11120	-.09750	-.05100	-.03760	842.99000
-.217	-4.285	.00610	-.00020	-.00580	-.03550	-.00390	-.11250	-.09170	-.04050	-.03340	843.27000
-.196	-.254	.04870	.00710	-.00410	-.05040	-.01910	-.12340	-.07500	-.03300	-.03040	842.99000
-.176	3.783	.09180	.01470	-.00150	-.06330	-.03280	-.13360	-.07520	-.03080	-.03390	842.99000
-.160	5.796	.11420	.01850	-.00020	-.07070	-.03880	-.13380	-.07580	-.01800	-.01960	842.71000
	GRADIENT	.01062	.00185	.00053	-.00345	-.00358	-.00262	.00204	.00120	-.00006	-.03470

RUN NO. 150/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.823	-6.216	.01340	.00040	-.00570	-.01750	.01370	-.12260	-.10190	-.03100	-.06930	842.99000
3.923	-4.240	.03520	.00440	-.00510	-.02270	.00350	-.12910	-.09040	-.02000	-.06280	842.99000
4.042	-.033	.08990	.01330	-.00180	-.03560	-.01270	-.13550	-.07670	-.01700	-.06530	842.71000
3.953	4.147	.13610	.02150	.00140	-.04800	-.02570	-.13610	-.07080	-.00470	-.05260	842.71000
3.918	6.175	.15200	.02450	.00230	-.05130	-.03130	-.14450	-.06780	.00640	-.04840	842.15000
	GRADIENT	.01203	.00204	.00077	-.00302	-.00348	-.00084	.00234	.00182	.00121	-.03342

IA138 AMES 246-1-97 OTS POWER ON (R3D045) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	196.380	SSMEPR =	370.730
ELV-IB =	12.000	ELV-OB =	-7.000
MACH =	1.550		

RUN NO. 133/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.134	-7.816	-.06780	-.01260	-.01030	-.00210	.02600	-.18130	-.18840	-.14460	-.09750	910.36000
-4.127	-5.842	-.04940	-.00910	-.00940	-.01300	.01410	-.17830	-.17490	-.13340	-.08560	910.06000
-4.113	-3.859	-.02440	-.00460	-.00790	-.02340	.00410	-.17980	-.17040	-.12590	-.06620	910.06000
-4.029	.042	.02620	.00430	-.00510	-.04020	-.00710	-.19020	-.17060	-.10350	-.04620	910.36000
-4.025	3.906	.07460	.01290	-.00110	-.05630	-.01300	-.18900	-.17450	-.07800	-.02210	910.36000
-4.044	5.897	.09370	.01650	.00000	-.06080	-.01380	-.18620	-.17160	-.09060	-.01810	910.36000
	GRADIENT	.01275	.00225	.00088	-.00424	-.00220	-.00119	-.00053	.00617	.00568	.03870

RUN NO. 132/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.249	-7.809	-.04430	-.00850	-.00960	.00150	.03720	-.18250	-.16910	-.10000	-.10420	910.36000
-.230	-5.813	-.01740	-.00390	-.00780	-.00660	.02560	-.18980	-.15340	-.09340	-.09800	910.06000
-.214	-3.806	.00980	.00080	-.00660	-.01560	.01140	-.19320	-.14290	-.08970	-.09760	910.06000
-.201	.157	.06550	.01060	-.00330	-.03060	-.00590	-.19050	-.14010	-.08300	-.09040	910.06000
-.151	4.255	.12170	.02040	.00140	-.04420	-.01300	-.18600	-.13940	-.05390	-.06950	910.06000
-.136	6.244	.13730	.02360	.00260	-.05240	-.01400	-.18660	-.14490	-.05260	-.05520	910.06000
	GRADIENT	.01388	.00243	.00099	-.00355	-.00302	.00089	.00043	.00446	.00362	.00000

RUN NO. 131/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.628	-7.851	-.01480	-.00380	-.00870	.00170	.05040	-.18810	-.17450	-.10230	-.14040	910.36000
3.672	-5.871	.01590	.00150	-.00650	-.00440	.03820	-.18940	-.16160	-.09180	-.12100	910.06000
3.677	-3.868	.04310	.00650	-.00520	-.01150	.02750	-.19580	-.14650	-.07730	-.11930	910.36000
3.629	.063	.10200	.01690	-.00120	-.02030	.00410	-.19720	-.13660	-.06180	-.11080	910.06000
3.629	3.908	.15390	.02510	.00580	-.02810	-.01010	-.18620	-.13510	-.03190	-.08590	910.06000
3.659	5.884	.16510	.02770	.00650	-.03160	-.01170	-.18950	-.13390	-.02940	-.09210	910.36000
	GRADIENT	.01425	.00239	.00141	-.00214	-.00484	.00123	.00147	.00583	.00429	-.03872

IA138 AMES 246-1-97 OTS POWER ON (R3D046) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.464 SSMEPR = 476.752
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 134/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.082	-5.828	-.03080	-.00620	-.00760	-.03710	.00470	-.12020	-.13150	-.07430	-.02220	843.27000
-4.074	-3.875	-.01480	-.00330	-.00630	-.04380	-.00340	-.12050	-.11860	-.07380	-.01140	843.55000
-3.992	.026	.02340	.00320	-.00430	-.05970	-.02110	-.14270	-.09910	-.05370	-.01130	843.27000
-3.984	3.891	.06040	.00970	-.00120	-.07690	-.03110	-.13680	-.12280	-.04400	.00760	843.27000
-4.006	5.882	.07870	.01290	.00010	-.08510	-.02860	-.14350	-.12280	-.04260	.01840	843.27000
	GRADIENT	.00968	.00167	.00066	-.00426	-.00357	-.00210	-.00053	.00384	.00244	-.03611

RUN NO. 135/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.186	-5.797	-.00630	-.00250	-.00630	-.03090	.01320	-.11060	-.10130	-.05140	-.04320	843.27000
-.161	-3.821	.01170	.00070	-.00530	-.03680	.00170	-.11500	-.09250	-.03970	-.03550	843.27000
-.163	.140	.05200	.00780	-.00380	-.05210	-.01390	-.12680	-.07880	-.03790	-.03660	842.99000
-.104	4.241	.10000	.01580	-.00030	-.06370	-.02970	-.13870	-.07740	-.03410	-.03700	843.27000
-.090	6.227	.11950	.01920	.00070	-.07170	-.03550	-.14020	-.08690	-.02150	-.02510	843.27000
	GRADIENT	.01096	.00187	.00062	-.00333	-.00369	-.00294	.00186	.00070	-.00019	.00040

RUN NO. 136/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.682	-5.866	.01230	.00040	-.00610	-.01820	.01650	-.12920	-.10320	-.03290	-.06780	843.27000
3.716	-3.884	.03770	.00460	-.00460	-.02370	.00630	-.12750	-.09160	-.02290	-.06420	843.27000
3.666	.044	.08720	.01280	-.00150	-.03710	-.00960	-.13700	-.07740	-.02100	-.06470	843.27000
3.668	3.895	.13160	.02040	.00170	-.04730	-.02240	-.14610	-.07380	-.00900	-.05520	842.99000
3.698	5.869	.15010	.02380	.00290	-.05050	-.02730	-.14790	-.07190	.00080	-.05360	843.27000
	GRADIENT	.01207	.00203	.00081	-.00304	-.00369	-.00239	.00229	.00178	.00115	-.03588

IA138 AMES 246-1-97 OTS POWER ON (R3D047) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.379 SSMEPR = 372.181
ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 177/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.134	-7.812	-.06100	-.01160	-.00890	.02800	-.00320	-.19010	-.18720	-.14610	-.09750	909.76000
-4.128	-5.840	-.04360	-.00810	-.00840	.01750	-.01380	-.17800	-.17510	-.13550	-.08670	909.46000
-4.112	-3.857	-.02010	-.00380	-.00710	.00540	-.02310	-.17840	-.17030	-.12870	-.06720	909.16000
-4.032	.042	.02750	.00480	-.00450	-.01270	-.02920	-.18290	-.17780	-.11000	-.04670	909.46000
-4.023	3.904	.07650	.01360	-.00090	-.02960	-.03250	-.18340	-.17310	-.08310	-.02510	909.76000
	GRADIENT	.01245	.00224	.00080	-.00451	-.00121	-.00065	-.00036	.00587	.00542	.07731

RUN NO. 178/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.260	-8.171	-.04240	-.00830	-.00860	.02920	.01780	-.17780	-.17300	-.10520	-.10390	909.76000
-.267	-6.245	-.02070	-.00420	-.00770	.02380	.00570	-.18600	-.15800	-.09320	-.09980	909.46000
-.256	-4.261	.00530	.00030	-.00660	.01450	-.00590	-.19120	-.14700	-.09030	-.09410	909.46000
-.237	-.230	.06050	.01020	-.00380	-.00130	-.02500	-.18740	-.13890	-.08410	-.09120	909.16000
-.212	3.807	.11480	.01970	.00060	-.01610	-.02910	-.17780	-.13950	-.06320	-.06810	909.46000
	GRADIENT	.01357	.00240	.00089	-.00379	-.00288	.00166	.00093	.00336	.00322	.00002

RUN NO. 179/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.570	-7.851	-.01210	-.00300	-.00820	.02470	.03110	-.18700	-.17550	-.10290	-.13680	909.16000
3.613	-5.867	.01500	.00180	-.00690	.01940	.01950	-.18920	-.16290	-.09220	-.11940	909.16000
3.617	-3.865	.04480	.00730	-.00560	.01220	.00940	-.19560	-.14840	-.07770	-.11740	909.46000
3.567	.059	.10180	.01730	-.00170	.00210	-.01370	-.19710	-.13740	-.06480	-.11170	909.46000
3.575	3.907	.15320	.02560	.00500	-.00460	-.02460	-.18550	-.13300	-.03550	-.08530	909.16000
	GRADIENT	.01395	.00236	.00136	-.00216	-.00438	.00129	.00198	.00542	.00412	-.03847

IA138 AMES 246-1-97 OTS POWER ON (R3D048) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.146 SSMEPR = 1637.358
ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 147/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.146	-7.787	-.07040	-.01310	-.00930	.02910	.02140	-.17770	-.18580	-.14460	-.09610	909.23000
-4.139	-5.830	-.05370	-.00980	-.00880	.01860	.01020	-.17300	-.17320	-.13340	-.08460	909.23000
-4.124	-3.852	-.03130	-.00550	-.00780	.00630	.00010	-.17760	-.17020	-.12730	-.06630	909.53000
-4.036	.041	.02000	.00360	-.00490	-.01200	-.01040	-.18460	-.17830	-.10680	-.04670	909.53000
-4.032	3.895	.06880	.01210	-.00100	-.03040	-.01670	-.18250	-.17320	-.08100	-.02550	909.53000
	GRADIENT	.01292	.00227	.00088	-.00474	-.00217	-.00063	-.00039	.00598	.00527	.00000

RUN NO. 146/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.288	-7.756	-.04740	-.00900	-.00850	.02910	.03310	-.18150	-.16980	-.10050	-.10280	908.93000
-.261	-5.800	-.02460	-.00480	-.00740	.02210	.02180	-.18850	-.15450	-.09160	-.09440	909.23000
-.244	-3.799	.00350	.00000	-.00610	.01330	.00750	-.19360	-.14490	-.08770	-.09350	909.53000
-.196	.154	.05880	.00980	-.00300	-.00200	-.00910	-.18810	-.13960	-.08190	-.08950	909.53000
-.182	4.242	.11370	.01940	.00180	-.01890	-.01690	-.18010	-.13940	-.06000	-.06880	909.23000
	GRADIENT	.01370	.00241	.00098	-.00401	-.00303	.00168	.00068	.00346	.00308	-.03752

RUN NO. 145/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.571	-7.824	-.02300	-.00490	-.00790	.02580	.04360	-.19120	-.17210	-.10070	-.13170	909.23000
3.616	-5.855	.00650	.00020	-.00610	.02030	.03500	-.19160	-.16190	-.09100	-.11700	908.93000
3.620	-3.859	.03550	.00550	-.00480	.01240	.02350	-.19820	-.14780	-.07650	-.11550	909.53000
3.571	.059	.09350	.01580	-.00090	.00340	.00010	-.19260	-.13710	-.06270	-.10950	909.53000
3.575	3.894	.14620	.02420	.00600	-.00410	-.01430	-.18430	-.13470	-.03620	-.08500	909.23000
	GRADIENT	.01428	.00241	.00139	-.00213	-.00488	.00179	.00169	.00519	.00393	-.03855

IA138 AMES 246-1-97 OTS POWER ON (R3D049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 126/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.072	-5.304	-.01750	-.00360	-.00480	-.01490	-.02310	-.05050	-.06370	-.04190	.00840	678.55000
-4.061	-3.354	-.00340	-.00120	-.00330	-.02670	-.03260	-.05570	-.05550	-.04170	.01760	678.33000
-3.980	.545	.02550	.00360	-.00100	-.04420	-.04570	-.07370	-.05740	-.01170	.01600	678.33000
-3.968	4.411	.05360	.00830	.00120	-.05590	-.05160	-.06720	-.05250	-.00070	.02740	678.55000
-3.988	6.402	.06540	.01040	.00130	-.06420	-.05180	-.07160	-.05280	-.00460	.04000	678.55000
	GRADIENT	.00734	.00122	.00058	-.00376	-.00245	-.00149	.00039	.00528	.00126	.02829

RUN NO. 125/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.174	-5.277	-.00300	-.00140	-.00400	-.00400	-.01980	-.04350	-.05260	-.02250	.00370	678.55000
-.149	-3.299	.01490	.00130	-.00200	-.01320	-.02920	-.04860	-.04680	-.02510	.00410	678.55000
-.151	.660	.04810	.00680	-.00040	-.02960	-.04110	-.08470	-.03830	.00080	.00600	678.55000
-.092	4.757	.08140	.01260	.00040	-.04170	-.05050	-.08040	-.02320	.01810	.00900	678.55000
-.078	6.746	.09670	.01520	.00090	-.04780	-.05100	-.07230	-.02610	.02180	.02830	678.33000
	GRADIENT	.00825	.00140	.00030	-.00353	-.00264	-.00392	.00293	.00536	.00061	.00000

RUN NO. 124/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.697	-5.340	.01600	.00080	-.00260	.01090	-.01800	-.07460	-.04120	.00690	-.02070	678.33000
3.728	-3.360	.03260	.00340	-.00160	.00070	-.02410	-.07970	-.02460	.02420	-.01160	678.55000
3.672	.565	.06630	.00940	-.00100	-.01770	-.03490	-.09140	-.02070	.01240	-.01210	678.55000
3.677	4.416	.10540	.01570	.00170	-.03180	-.04200	-.09250	-.01510	.02180	-.00810	678.78000
3.705	6.387	.12000	.01880	.00140	-.03220	-.04180	-.08050	-.01680	.03470	-.00440	678.78000
	GRADIENT	.00936	.00158	.00042	-.00418	-.00230	-.00165	.00122	-.00032	.00045	.02948

IA138 AMES 246-1-97 OTS POWER ON (R3D050) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.805 SSMEPR = 1326.922
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 115/ 0 RN/L = 2.90 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.020	-6.045	-.00400	-.00190	.00070	-.02400	-.06330	-.04320	-.01750	-.00250	.03590	549.15000
-4.011	-4.096	.00420	-.00050	.00140	-.03370	-.06510	-.04280	-.01620	-.00190	.04050	548.97000
-3.932	-.198	.02120	.00240	.00260	-.05150	-.07040	-.04710	-.01450	.01540	.04530	549.15000
-3.924	3.667	.04130	.00580	.00380	-.06900	-.07240	-.04840	.00290	.01950	.03910	548.97000
-3.944	5.659	.05000	.00740	.00360	-.07150	-.06920	-.04400	.00830	.01940	.04990	548.97000
	GRADIENT	.00478	.00081	.00031	-.00455	-.00094	-.00072	.00246	.00276	-.00018	.00006

RUN NO. 116/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.126	-6.019	.00890	-.00050	.00160	-.00640	-.05440	-.03420	.00040	.02480	.02820	548.79000
-.102	-4.042	.01920	.00110	.00220	-.01700	-.05800	-.03980	.00120	.02470	.03210	548.97000
-.104	-.082	.03650	.00440	.00230	-.03520	-.06490	-.04010	-.00520	.02890	.03360	548.97000
-.045	4.016	.06040	.00860	.00220	-.05100	-.06880	-.04690	-.00320	.04020	.05610	548.97000
-.032	6.000	.07000	.01040	.00140	-.05860	-.05490	-.04840	.02160	.04880	.04320	548.97000
	GRADIENT	.00512	.00093	-.00000	-.00422	-.00134	-.00089	-.00054	.00193	.00299	-.00000

RUN NO. 117/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.742	-6.087	.01540	.00020	-.00050	.00350	-.04720	-.05340	.01490	.03100	.00850	548.97000
3.775	-4.106	.02540	.00180	.00000	-.00490	-.05240	-.05150	.02110	.04640	.01520	548.97000
3.726	-.178	.04800	.00570	.00090	-.02200	-.05730	-.04930	.01210	.04410	.02030	548.97000
3.729	3.672	.07740	.01080	.00150	-.03640	-.06310	-.05700	.02060	.03980	.01890	548.97000
3.758	5.642	.09360	.01360	.00240	-.04090	-.06220	-.05320	.02610	.05550	.02650	548.97000
	GRADIENT	.00668	.00116	.00019	-.00405	-.00138	-.00070	-.00007	-.00085	.00048	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D051) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.294 SSMEPR = 477.177
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 155/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.328	-6.178	-.03920	-.00750	-.00430	.02770	.00330	-.11180	-.13140	-.08110	-.02620	842.43000
-4.431	-4.157	-.02190	-.00440	-.00310	.01710	-.00690	-.11590	-.11510	-.07560	-.01290	842.71000
-4.470	.097	.01570	.00210	-.00090	-.00230	-.02500	-.12400	-.11380	-.06170	-.00260	842.71000
-4.261	4.262	.05820	.00950	.00240	-.02450	-.03310	-.12940	-.12340	-.04760	.00510	842.71000
-4.185	6.274	.07770	.01290	.00380	-.03350	-.02900	-.13450	-.12470	-.04750	.01280	842.71000
	GRADIENT	.00951	.00165	.00065	-.00494	-.00312	-.00160	-.00098	.00333	.00214	.00000

RUN NO. 156/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.208	-6.226	-.01620	-.00400	-.00280	.02620	.01350	-.10620	-.10620	-.05440	-.04080	842.71000
-.216	-4.285	.00130	-.00070	-.00230	.01690	.00070	-.10440	-.10010	-.04560	-.03390	842.71000
-.200	-.252	.04350	.00650	-.00050	.00420	-.01510	-.12030	-.08120	-.03320	-.03110	842.43000
-.175	3.785	.08980	.01420	.00300	-.00970	-.02870	-.12370	-.07810	-.03080	-.03540	842.71000
-.160	5.796	.11110	.01800	.00400	-.01930	-.03400	-.12410	-.08040	-.02490	-.02270	842.71000
	GRADIENT	.01097	.00185	.00066	-.00330	-.00364	-.00239	.00273	.00183	-.00019	.00001

RUN NO. 157/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.833	-6.216	.00460	-.00060	-.00240	.03050	.01990	-.12510	-.10470	-.03140	-.06630	842.71000
3.928	-4.242	.03060	.00370	-.00100	.02240	.00810	-.12510	-.09290	-.01950	-.05780	842.43000
4.043	-.032	.08450	.01260	.00200	.00920	-.00880	-.13230	-.08020	-.01780	-.06180	842.43000
3.954	4.148	.13240	.02080	.00550	-.00130	-.02230	-.13250	-.07370	-.01120	-.05630	842.43000
3.920	6.179	.14790	.02390	.00610	-.00360	-.02630	-.14250	-.07190	-.00320	-.05280	842.71000
	GRADIENT	.01213	.00204	.00077	-.00283	-.00362	-.00088	.00229	.00099	.00018	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.163 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 166/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.079	-5.302	-.01510	-.00370	-.00230	-.01400	-.01250	-.05320	-.06550	-.04400	.00710	678.55000
-4.065	-3.352	-.00070	-.00130	-.00080	-.02520	-.02310	-.05700	-.05830	-.04500	.01480	678.00000
-3.981	.548	.02820	.00350	.00140	-.04280	-.03660	-.07320	-.05860	-.01530	.01430	678.78000
-3.972	4.414	.05560	.00810	.00360	-.05400	-.04290	-.07020	-.05630	-.00630	.02180	678.00000
-3.989	6.405	.06740	.01020	.00370	-.06260	-.04210	-.07430	-.05830	-.00830	.03390	678.00000
	GRADIENT	.00725	.00121	.00057	-.00371	-.00255	-.00170	.00026	.00499	.00091	-.00008

RUN NO. 165/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.174	-5.277	-.00110	-.00150	-.00190	-.00400	-.00860	-.04180	-.05440	-.02570	.00150	678.33000
-.148	-3.303	.01710	.00120	.00030	-.01260	-.01930	-.04970	-.04670	-.02590	.00300	678.33000
-.151	.661	.04940	.00650	.00190	-.02810	-.03290	-.08470	-.04070	-.00200	.00340	678.55000
-.093	4.761	.08410	.01230	.00330	-.04100	-.04320	-.08230	-.02800	.01280	.00320	678.33000
-.080	6.750	.09810	.01490	.00350	-.04640	-.04300	-.07600	-.02900	.01890	.01880	678.55000
	GRADIENT	.00831	.00138	.00037	-.00352	-.00296	-.00402	.00232	.00479	.00002	-.00031

RUN NO. 164/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.839	-5.693	.01960	.00060	.00050	.01370	-.00670	-.07460	-.04450	.00390	-.02560	676.31000
3.934	-3.718	.03470	.00310	.00120	.00300	-.01380	-.08370	-.03010	.01670	-.01550	677.88000
4.052	.486	.07170	.00960	.00110	-.01560	-.02680	-.09020	-.02480	.00960	-.01640	677.88000
3.962	4.666	.10920	.01590	.00380	-.03060	-.03470	-.09240	-.02000	.01930	-.01190	678.33000
3.928	6.696	.12370	.01890	.00370	-.03130	-.03450	-.08270	-.02200	.03190	-.00970	678.33000
	GRADIENT	.00889	.00153	.00031	-.00401	-.00249	-.00104	.00120	.00031	.00043	.05362

IA138 AMES 246-1-97 OTS POWER ON (R3D053) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 752.323 SSMEPR = 1319.085
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 167/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.271	-6.391	-.00150	-.00220	.00160	-.02180	-.03270	-.05060	-.02510	-.00900	.02640	550.06000
-4.372	-4.373	.00710	-.00080	.00230	-.03200	-.03790	-.04950	-.02090	-.00570	.03580	548.79000
-4.406	-.125	.02560	.00250	.00380	-.05320	-.04580	-.04910	-.01900	.01120	.04200	548.79000
-4.199	4.037	.04810	.00610	.00520	-.06910	-.05030	-.04960	-.00070	.01790	.03560	548.97000
-4.127	6.050	.05790	.00780	.00570	-.07190	-.04860	-.04650	.00500	.01500	.04600	549.15000
	GRADIENT	.00487	.00082	.00034	-.00441	-.00148	-.00001	.00240	.00281	-.00002	.02133

RUN NO. 168/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.128	-6.024	.01000	-.00070	.00200	-.00570	-.02340	-.03970	-.00380	.01970	.02370	549.15000
-.101	-4.044	.02350	.00110	.00350	-.01590	-.03380	-.03880	.00010	.02220	.02910	548.97000
-.105	-.080	.04170	.00440	.00390	-.03440	-.04500	-.05050	-.01070	.02530	.02990	548.97000
-.044	4.017	.06550	.00860	.00380	-.04990	-.05110	-.05030	-.00630	.03790	.05190	548.79000
-.031	6.006	.07690	.01070	.00400	-.05670	-.05010	-.04720	.01980	.04620	.03920	548.97000
	GRADIENT	.00521	.00093	.00004	-.00422	-.00214	-.00142	-.00078	.00195	.00284	-.02245

RUN NO. 169/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.688	-6.090	.01900	.00020	.00130	.00390	-.02740	-.05290	.01150	.02730	.00420	548.97000
3.719	-4.106	.03080	.00190	.00230	-.00480	-.03500	-.05740	.01750	.04310	.01090	548.79000
3.667	-.178	.05450	.00590	.00340	-.02180	-.04410	-.05370	.00820	.03840	.01510	548.97000
3.673	3.671	.08190	.01090	.00350	-.03610	-.04930	-.06200	.01710	.03680	.01530	548.79000
3.703	5.645	.09880	.01370	.00460	-.04040	-.05010	-.05390	.02490	.05450	.02560	548.79000
	GRADIENT	.00657	.00116	.00015	-.00403	-.00184	-.00059	-.00006	-.00081	.00057	.00016

IA138 AMES 246-1-97 OTS POWER ON (R3D054) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.607 SSMEPR = 735.810
ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 194/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.340	-5.660	-.01860	-.00450	.00060	-.01320	.00000	-.05770	-.07090	-.05030	.00110	679.00000
-4.442	-3.634	-.00810	-.00250	.00120	-.02570	.00000	-.06490	-.06200	-.04820	.01220	679.00000
-4.474	.620	.01980	.00250	.00310	-.04520	.00000	-.08160	-.06430	-.01890	.01190	678.78000
-4.265	4.785	.05100	.00770	.00550	-.05760	.00000	-.07670	-.06160	-.01000	.01770	679.00000
-4.188	6.795	.06420	.01000	.00580	-.06570	.00000	-.07790	-.06270	-.01510	.03170	679.00000
	GRADIENT	.00702	.00121	.00051	-.00379	.00000	-.00141	.00005	.00455	.00065	-.00018

RUN NO. 195/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.208	-5.758	-.00240	-.00220	.00230	-.00190	.00000	-.04730	-.05980	-.03050	-.00400	678.55000
-.199	-3.769	.01200	.00020	.00310	-.01150	.00000	-.05290	-.05260	-.03060	-.00220	678.55000
-.186	.269	.04380	.00560	.00420	-.02740	.00000	-.08750	-.04290	-.00400	.00030	678.33000
-.159	4.306	.07600	.01120	.00480	-.04100	.00000	-.08560	-.03060	.00990	.00470	678.33000
-.143	6.317	.09120	.01380	.00510	-.04680	.00000	-.08050	-.03090	.01640	.01310	678.33000
	GRADIENT	.00793	.00136	.00021	-.00365	.00000	-.00405	.00272	.00502	.00085	-.02725

RUN NO. 196/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.647	-5.348	.01290	-.00010	.00100	.01080	.00000	-.07540	-.04560	.00020	-.02820	678.33000
3.677	-3.363	.03100	.00270	.00250	.00030	.00000	-.08690	-.02890	.01720	-.01900	678.55000
3.625	.565	.06500	.00870	.00310	-.01770	.00000	-.09630	-.02550	.00770	-.01640	678.55000
3.630	4.415	.10340	.01490	.00580	-.03140	.00000	-.09230	-.02010	.01690	-.01430	678.33000
3.658	6.391	.11570	.01750	.00520	-.03210	.00000	-.08710	-.02370	.02600	-.01350	678.11000
	GRADIENT	.00931	.00157	.00042	-.00408	.00000	-.00070	.00113	-.00014	.00060	-.02810

IA138 AMES 246-1-97 OTS POWER ON (R3D055) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 743.821 SSMEPR = 1312.481
ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 113/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.012	-6.043	-.00450	-.00170	-.00050	-.02410	-.03590	-.04550	-.01590	-.00070	.03680	551.23000
-4.004	-4.093	.00660	-.00010	.00100	-.03400	-.04170	-.04630	-.01420	-.00100	.04370	551.41000
-3.925	-.200	.02330	.00270	.00280	-.05200	-.05090	-.04740	-.01360	.01370	.04610	551.41000
-3.918	3.661	.04460	.00630	.00410	-.07040	-.05570	-.04560	.00350	.02010	.04010	551.41000
-3.940	5.650	.05380	.00800	.00410	-.07310	-.05450	-.04330	.00780	.02000	.04940	551.41000
	GRADIENT	.00490	.00083	.00040	-.00469	-.00181	.00009	.00228	.00272	-.00046	-.00000

RUN NO. 112/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.137	-6.016	.00720	-.00030	.00030	-.00670	-.03660	-.03650	.00040	.02430	.02890	551.41000
-.112	-4.042	.02030	.00150	.00210	-.01730	-.04040	-.04240	.00180	.02460	.03260	551.41000
-.100	-.090	.03890	.00480	.00280	-.03470	-.04920	-.04350	-.00350	.02870	.03210	551.41000
-.048	4.011	.06400	.00930	.00280	-.05150	-.05550	-.05210	-.00180	.04060	.05400	551.41000
-.035	5.998	.07640	.01150	.00290	-.05900	-.05430	-.04230	.02360	.05110	.04530	551.23000
	GRADIENT	.00543	.00097	.00009	-.00425	-.00187	-.00121	-.00044	.00199	.00267	.00000

RUN NO. 111/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.737	-6.082	.01910	.00100	.00060	.00430	-.03800	-.05300	.01430	.03130	.00770	551.23000
3.770	-4.102	.02880	.00260	.00110	-.00470	-.04000	-.05550	.02050	.04570	.01460	551.41000
3.718	-.180	.05120	.00640	.00180	-.02250	-.04460	-.05490	.01340	.04540	.02110	551.23000
3.725	3.662	.08140	.01180	.00210	-.03730	-.04760	-.06180	.02020	.04020	.01770	551.41000
3.756	5.633	.09910	.01480	.00320	-.04180	-.04730	-.05440	.02420	.05470	.02450	551.23000
	GRADIENT	.00677	.00118	.00013	-.00420	-.00098	-.00081	-.00004	-.00071	.00040	-.00016

IA138 AMES 246-1-97 OTS POWER ON (R3D056) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 460.159 SSMEPR = 740.665
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 214/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.319	-5.659	-.02330	-.00430	-.00230	.01480	-.01410	-.05450	-.07210	-.05320	-.00130	678.11000
-4.419	-3.636	-.01020	-.00210	-.00120	-.00020	-.02410	-.06160	-.06320	-.04970	.01110	678.33000
-4.456	.617	.01870	.00280	.00070	-.02180	-.03930	-.07820	-.06270	-.01630	.01410	678.55000
-4.244	4.780	.04970	.00780	.00350	-.03440	-.04630	-.07140	-.05960	-.00740	.01950	678.11000
-4.169	6.792	.06250	.01010	.00350	-.04350	-.04230	-.07130	-.05980	-.00970	.03490	678.11000
	GRADIENT	.00712	.00118	.00056	-.00407	-.00264	-.00117	.00043	.00504	.00100	-.02586

RUN NO. 213/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.174	-5.279	-.00580	-.00170	-.00110	.02040	-.01420	-.04860	-.06120	-.03390	-.00740	678.55000
-.147	-3.302	.01110	.00090	.00050	.00950	-.02290	-.05180	-.05080	-.03170	-.00130	678.55000
-.153	.655	.04390	.00640	.00150	-.00690	-.03430	-.08480	-.05020	-.00640	.00700	678.78000
-.093	4.756	.07760	.01220	.00310	-.02210	-.04470	-.08050	-.03000	.01430	.00270	678.33000
-.080	6.741	.09450	.01480	.00410	-.02870	-.04510	-.07450	-.03230	.01830	.01980	678.33000
	GRADIENT	.00825	.00140	.00032	-.00392	-.00270	-.00353	.00260	.00570	.00049	-.02780

RUN NO. 212/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.837	-5.689	.01340	.00030	.00140	.03500	-.01810	-.08020	-.05360	-.00630	-.03460	677.43000
3.930	-3.712	.02810	.00270	.00180	.02340	-.02300	-.08460	-.03650	.01000	-.01910	678.33000
4.047	.488	.06560	.00930	.00140	.00200	-.03170	-.09790	-.03050	.00370	-.02200	678.55000
3.960	4.664	.10350	.01580	.00380	-.01440	-.03910	-.09510	-.02450	.01540	-.01290	678.33000
3.926	6.689	.11890	.01900	.00370	-.01520	-.03780	-.08180	-.02520	.03040	-.00760	678.78000
	GRADIENT	.00900	.00156	.00024	-.00451	-.00192	-.00126	.00143	.00064	.00074	.00005

IA138 AMES 246-1-97 OTS POWER ON (R3C057) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 751.892 SSMEPR = 1322.416
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 217/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.039	-6.049	-.00940	-.00250	-.00040	.00230	-.02900	-.07030	-.02460	-.00770	.02630	548.79000
-4.030	-4.096	.00060	-.00100	.00070	-.00860	-.03500	-.04930	-.01950	-.00360	.03510	548.42000
-3.952	-.197	.01880	.00210	.00210	-.02940	-.04230	-.05690	-.02070	.01170	.04090	548.61000
-3.946	3.668	.03800	.00530	.00340	-.04740	-.04700	-.04400	-.00100	.01730	.03600	548.61000
-3.963	5.658	.04750	.00690	.00390	-.04900	-.04550	-.04350	.00340	.01600	.04480	548.61000
	GRADIENT	.00482	.00081	.00035	-.00500	-.00155	.00068	.00238	.00269	.00012	.02451

RUN NO. 218/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.148	-6.437	.00040	-.00150	.00140	.01960	-.02300	-.04230	-.00700	.01810	.02310	548.61000
-.154	-4.498	.01190	.00020	.00220	.00800	-.03160	-.04140	-.00080	.02180	.03000	548.42000
-.131	-.471	.03080	.00350	.00270	-.01460	-.04080	-.05200	-.01170	.02430	.03440	548.42000
-.112	3.568	.05410	.00750	.00320	-.03210	-.04710	-.04820	-.01330	.03390	.05640	548.42000
-.096	5.580	.06730	.00970	.00370	-.03880	-.04570	-.04770	.00210	.04160	.05470	548.42000
	GRADIENT	.00523	.00091	.00012	-.00497	-.00192	-.00084	-.00155	.00150	.00327	-.00000

RUN NO. 219/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.687	-6.089	.01380	-.00010	.00220	.02310	-.04080	-.05950	.00580	.02040	.00010	548.42000
3.718	-4.104	.02290	.00150	.00230	.01300	-.04320	-.05780	.01370	.03840	.00970	548.61000
3.667	-.177	.04660	.00540	.00310	-.00730	-.04650	-.05410	.00720	.04040	.01360	548.79000
3.676	3.672	.07490	.01050	.00330	-.02300	-.05070	-.06100	.01590	.03670	.01660	548.97000
3.705	5.646	.09110	.01330	.00440	-.02700	-.04960	-.05450	.02170	.05130	.02440	548.97000
	GRADIENT	.00669	.00116	.00013	-.00463	-.00096	-.00041	.00028	-.00022	.00089	.04630

IA138 AMES 246-1-97 OTS POWER ON (R3D058) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.862 SSMEPR = 741.568
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 186/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.318	-5.657	-.02160	-.00450	-.00060	.01490	-.01100	-.05250	-.06860	-.04920	.00130	678.78000
-4.421	-3.635	-.00850	-.00230	.00070	.00020	-.02410	-.05610	-.06140	-.04870	.01220	679.00000
-4.457	.620	.02090	.00280	.00270	-.02170	-.03990	-.07330	-.06040	-.01440	.01660	678.78000
-4.247	4.785	.05210	.00790	.00520	-.03550	-.04770	-.06710	-.05670	-.00410	.02320	679.00000
-4.172	6.797	.06410	.01010	.00500	-.04380	-.03610	-.08310	-.05930	-.00900	.03560	678.78000
	GRADIENT	.00720	.00121	.00053	-.00424	-.00281	-.00132	.00056	.00531	.00131	-.00018

RUN NO. 185/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.174	-5.276	-.00630	-.00210	.00000	.02010	-.01160	-.04330	-.05640	-.02930	-.00310	679.00000
-.147	-3.302	.01210	.00070	.00210	.00950	-.02210	-.04820	-.04850	-.03040	.00050	679.00000
-.151	.660	.04550	.00620	.00360	-.00640	-.03630	-.08080	-.04460	-.00290	.00990	679.00000
-.093	4.761	.07930	.01200	.00470	-.02180	-.04630	-.07760	-.02620	.01710	.00620	679.00000
-.080	6.750	.09480	.01460	.00530	-.02860	-.04650	-.07240	-.03010	.01960	.02460	678.78000
	GRADIENT	.00833	.00140	.00032	-.00388	-.00300	-.00362	.00278	.00589	.00070	-.00000

RUN NO. 184/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.837	-5.692	.01400	.00010	.00250	.03420	-.01290	-.07500	-.04720	-.00020	-.02700	676.53000
3.931	-3.713	.02840	.00240	.00310	.02280	-.01980	-.07910	-.03200	.01400	-.01420	676.98000
4.048	.490	.06600	.00890	.00320	.00190	-.03150	-.09160	-.02640	.00860	-.01730	677.43000
3.962	4.670	.10380	.01540	.00550	-.01440	-.03890	-.09180	-.02110	.01730	-.01110	678.33000
3.925	6.697	.11950	.01860	.00550	-.01470	-.03770	-.08040	-.02350	.03180	-.00630	678.10000
	GRADIENT	.00900	.00155	.00029	-.00444	-.00228	-.00152	.00130	.00039	.00037	.16101

IA138 AMES 246-1-97 OTS POWER ON (R3D059) (18 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 187/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.021	-6.050	-.00580	-.00250	.00220	.00160	-.02780	-.04730	-.02290	-.00560	.02840	547.88000
-4.012	-4.095	.00370	-.00100	.00310	-.00920	-.03710	-.05290	-.01970	-.00380	.03500	548.06000
-3.933	-.194	.02210	.00220	.00450	-.02990	-.04710	-.05310	-.02060	.01150	.04170	548.42000
-3.929	3.671	.04210	.00550	.00580	-.04820	-.05160	-.04620	-.00110	.01690	.03560	548.79000
-3.947	5.663	.05100	.00710	.00610	-.04970	-.04980	-.04240	.00420	.01630	.04600	548.97000
	GRADIENT	.00494	.00084	.00035	-.00502	-.00187	.00086	.00239	.00267	.00008	.09400

RUN NO. 188/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.147	-6.438	00290	-.00160	.00360	.01910	-.02520	-.04050	-.00430	.02110	.02610	548.79000
-.153	-4.500	.01490	.00010	.00480	.00730	-.03480	-.03750	-.00060	.02180	.03030	548.79000
-.133	-.469	.03370	.00350	.00500	-.01640	-.04640	-.04490	-.00890	.02490	.03510	548.79000
-.111	3.572	.05650	.00760	.00510	-.03250	-.05310	-.05110	-.01560	.03280	.05560	548.79000
-.095	5.583	.06800	.00970	.00520	-.03950	-.05150	-.04560	.00260	.04110	.05450	548.97000
	GRADIENT	.00515	.00093	.00004	-.00493	-.00227	-.00168	-.00186	.00136	.00313	.00000

RUN NO. 189/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.687	-6.092	.01240	-.00040	.00290	.02260	-.02830	-.05430	.01120	.02700	.00620	548.97000
3.721	-4.105	.02340	.00120	.00340	.01220	-.03580	-.05490	.01680	.04140	.01220	548.97000
3.670	-.176	.04750	.00520	.00450	-.00800	-.04560	-.05350	.00930	.04200	.01600	548.97000
3.677	3.675	.07630	.01030	.00490	-.02340	-.05110	-.06110	.01670	.03840	.01850	548.97000
3.706	5.648	.09270	.01310	.00590	-.02760	-.05110	-.05550	.02380	.05400	.02650	548.79000
	GRADIENT	.00680	.00117	.00019	-.00458	-.00197	-.00079	-.00002	-.00038	.00081	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D060) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 753.115 SSMEPR = 1329.449
ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 206/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.261	-6.393	-.01020	-.00240	.00040	.00310	-.03410	-.05030	-.02450	-.00730	.02650	547.51000
-4.366	-4.373	.00000	-.00090	.00150	-.00970	-.04060	-.05280	-.02040	-.00470	.03530	547.51000
-4.401	-.125	.01870	.00230	.00320	-.03220	-.04990	-.05650	-.02040	.01160	.04180	547.70000
-4.196	4.033	.04130	.00600	.00460	-.04920	-.05390	-.04950	-.00340	.01680	.03310	547.51000
-4.122	6.043	.05140	.00770	.00510	-.05200	-.05500	-.04380	.00400	.01770	.04530	547.51000
	GRADIENT	.00491	.00062	.00037	-.00482	-.00158	.00039	.00201	.00256	-.00026	.00016

RUN NO. 205/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-.149	-6.434	-.00270	-.00140	.00020	.01930	-.03400	-.04070	-.00610	.01890	.02380	547.51000
-.156	-4.495	.01250	.00060	.00250	.00760	-.04020	-.04030	-.00330	.01980	.02740	547.51000
-.139	-.467	.03070	.00380	.00310	-.01500	-.04780	-.05040	-.01410	.02220	.03280	547.51000
-.112	3.566	.05480	.00810	.00340	-.03240	-.05520	-.05080	-.01400	.03210	.05570	547.51000
-.095	5.571	.06760	.01030	.00360	-.04000	-.05330	-.04750	-.00060	.03780	.05100	547.51000
	GRADIENT	.00525	.00093	.00011	-.00496	-.00186	-.00130	-.00133	.00153	.00351	.00000

RUN NO. 204/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
3.877	-6.435	.01030	.00000	.00110	.02570	-.03760	-.05580	.00720	.02230	.00370	547.33000
3.975	-4.456	.02240	.00180	.00170	.01510	-.04130	-.06170	.01290	.03750	.00920	547.51000
4.097	-.255	.04700	.00590	.00210	-.00670	-.04620	-.06240	.00840	.04470	.01270	547.51000
4.011	3.921	.07730	.01150	.00280	-.02280	-.05280	-.06280	.01320	.03780	.01670	547.51000
3.979	5.948	.09570	.01450	.00420	-.02710	-.05220	-.05420	.02060	.05260	.02530	547.51000
	GRADIENT	.00655	.00116	.00013	-.00453	-.00137	-.00013	.00003	.00004	.00090	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D061) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.861 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 9/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	700.439	.03400	.00430	-.00300	-.06380	-.05280	-.10930	-.08520	-.06550	-.06180	547.70000
2.495	791.251	.03450	.00440	-.00290	-.06380	-.05270	-.10560	-.08320	-.06460	-.06060	547.70000
2.495	891.235	.03420	.00430	-.00290	-.06380	-.05290	-.10210	-.08040	-.06290	-.05860	547.70000
2.495	985.257	.03450	.00430	-.00280	-.06380	-.05300	-.09860	-.07840	-.06210	-.05800	547.70000
2.495	1110.766	.03380	.00430	-.00300	-.06390	-.05310	-.09520	-.07540	-.05880	-.05470	547.88000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D062) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 332.191 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 8/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	674.536	.03470	.00440	-.00270	-.06390	-.05360	-.09950	-.06850	-.04630	-.04190	548.06000
2.495	781.558	.03430	.00440	-.00270	-.06390	-.05400	-.09490	-.06440	-.04410	-.03880	548.06000
2.495	884.227	.03350	.00430	-.00290	-.06390	-.05410	-.09150	-.06250	-.04270	-.03760	548.06000
2.495	966.040	.03520	.00440	-.00250	-.06390	-.05430	-.08780	-.06030	-.04130	-.03590	548.06000
2.495	1082.786	.03460	.00440	-.00250	-.06400	-.05450	-.08440	-.05830	-.04020	-.03490	548.24000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D063) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 431.638 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 7/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	691.724	.03540	.00450	-.00220	-.06410	-.05490	-.08910	-.05140	-.02850	-.02030	548.24000
2.495	787.714	.03460	.00440	-.00250	-.06410	-.05500	-.08530	-.04870	-.02790	-.01930	548.24000
2.495	886.515	.03350	.00430	-.00280	-.06410	-.05530	-.08160	-.04770	-.02800	-.01930	548.24000
2.495	977.079	.03520	.00450	-.00230	-.06410	-.05540	-.07850	-.04410	-.02590	-.01740	548.42000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D064) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 586.823 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 5/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	694.010	.03440	.00450	-.00180	-.06450	-.05750	-.07490	-.02600	-.00700	.00290	548.97000
2.495	790.102	.03360	.00440	-.00210	-.06450	-.05760	-.06900	-.02110	-.00370	.00410	548.97000
2.495	890.770	.03430	.00450	-.00180	-.06460	-.06170	-.06460	-.01660	.00110	.00710	548.97000
2.495	962.520	.03270	.00440	-.00200	-.06450	-.05930	-.06410	-.01580	.00210	.00800	549.15000
2.495	1111.960	.03280	.00440	-.00200	-.06450	-.05880	-.05600	-.01070	.00810	.01310	549.33000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D065) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 787.210 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 6/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	699.247	.03550	.00450	-.00210	-.06480	-.05590	-.05260	-.00250	.02830	.03520	550.61000
2.495	784.985	.03480	.00450	-.00220	-.06470	-.05590	-.04740	.00010	.03090	.03780	550.79000
2.495	893.168	.03380	.00440	-.00240	-.06520	-.05630	-.04520	-.00090	.03070	.03440	551.15000
2.495	975.072	.03480	.00450	-.00210	-.06440	-.05640	-.04210	-.00030	.03500	.03530	550.97000
2.495	1096.897	.03430	.00440	-.00220	-.06460	-.05680	-.03850	.00190	.03710	.03800	551.15000
2.495	1100.750	.03390	.00440	-.00250	-.06420	-.05590	-.07280	-.03980	-.02320	-.01490	548.42000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D066) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 173.739 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 15/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.196	473.335	.05000	.00710	-.00470	-.06270	-.03540	-.15740	-.13330	-.10240	-.10100	676.98000
2.196	533.142	.04930	.00700	-.00480	-.06270	-.03570	-.15040	-.12900	-.09840	-.09730	676.98000
2.196	612.011	.04940	.00700	-.00480	-.06260	-.03550	-.14310	-.12410	-.09550	-.09390	677.21000
2.196	692.350	.04970	.00710	-.00480	-.06260	-.03600	-.13760	-.11880	-.09190	-.08900	677.21000
2.196	791.660	.04950	.00710	-.00470	-.06270	-.03600	-.13310	-.11690	-.09140	-.08910	677.21000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D067) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.420 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 14/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.196	474.014	.04930	.00710	-.00470	-.06260	-.03630	-.14530	-.10390	-.07100	-.06770	677.66000
2.196	539.794	.04960	.00710	-.00460	-.06270	-.03630	-.13720	-.09920	-.06780	-.06380	677.66000
2.196	620.366	.04990	.00710	-.00470	-.06270	-.03630	-.13160	-.09620	-.06680	-.06290	677.66000
2.196	692.092	.04930	.00700	-.00470	-.06270	-.03710	-.12650	-.09230	-.06440	-.05930	677.88000
2.196	781.137	.05030	.00720	-.00440	-.06270	-.03790	-.12010	-.08780	-.06100	-.05460	678.11000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D068) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 326.815 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 12/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.196	473.543	.04970	.00710	-.00420	-.06210	-.03800	-.13090	-.08160	-.04750	-.03960	678.33000
2.196	539.114	.04940	.00710	-.00420	-.06200	-.03830	-.12470	-.07750	-.04480	-.03650	678.33000
2.196	619.975	.04910	.00710	-.00420	-.06210	-.03950	-.12030	-.07610	-.04420	-.03540	678.56000
2.196	701.069	.04920	.00710	-.00410	-.06210	-.04040	-.11370	-.07370	-.04200	-.03180	678.78000
2.196	787.284	.05080	.00720	-.00340	-.06220	-.04440	-.11010	-.07190	-.04220	-.03010	680.35000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D069) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SREPR = 422.548 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 11/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.196	466.171	.04830	.00700	-.00420	-.06350	-.03750	-.11740	-.06130	-.02580	-.01020	679.46000
2.196	527.877	.04860	.00700	-.00420	-.06360	-.03750	-.11160	-.05860	-.02460	-.01150	679.68000
2.196	614.797	.04870	.00700	-.00430	-.06350	-.03650	-.10220	-.05310	-.01800	-.00880	679.68000
2.196	687.255	.04830	.00700	-.00420	-.06360	-.03820	-.09710	-.05080	-.01650	-.00780	679.68000
2.196	785.371	.04870	.00710	-.00420	-.06360	-.03800	-.09110	-.04630	-.01370	-.00520	679.91000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D070) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SREPR = 533.014 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 10/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.196	454.525	.04990	.00720	-.00380	-.06390	-.03850	-.09850	-.04150	-.00010	.01160	680.80000
2.196	533.011	.04980	.00720	-.00380	-.06410	-.03950	-.09270	-.03760	.00230	.01310	680.80000
2.196	597.717	.04990	.00720	-.00390	-.06420	-.04040	-.08810	-.03520	.00420	.01580	681.03000
2.196	707.150	.05140	.00730	-.00340	-.06440	-.04100	-.08100	-.02970	.00710	.01650	681.48000
2.196	788.063	.05190	.00740	-.00320	-.06430	-.04270	-.07880	-.02630	.00700	.01590	682.15000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D071) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 119.218 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 22/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.799	262.393	.05190	.00850	-.00540	-.04140	-.01550	-.21940	-.18810	-.15350	-.15710	838.95000
1.799	306.315	.05210	.00850	-.00550	-.04140	-.01570	-.20950	-.18370	-.15130	-.15480	839.23000
1.799	369.375	.05170	.00850	-.00550	-.04150	-.01610	-.19480	-.17750	-.14840	-.15140	839.23000
1.799	428.948	.05250	.00860	-.00540	-.04150	-.01640	-.18470	-.17180	-.14520	-.14770	839.51000
1.799	493.852	.05370	.00880	-.00540	-.04170	-.01650	-.17470	-.16620	-.14220	-.14460	839.51000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D072) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 156.726 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 23/ 0 RN/L = 3.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.799	265.327	.05260	.00860	-.00550	-.04160	-.01670	-.20370	-.16120	-.12270	-.12560	839.51000
1.799	304.270	.05310	.00870	-.00540	-.04160	-.01690	-.19220	-.15770	-.11840	-.12520	839.51000
1.799	370.793	.05270	.00850	-.00540	-.04160	-.01690	-.17870	-.15130	-.11480	-.12160	840.07000
1.799	427.575	.05260	.00850	-.00540	-.04170	-.01690	-.16920	-.14710	-.11320	-.11930	840.07000
1.799	491.340	.05300	.00860	-.00560	-.04170	-.01710	-.15910	-.14100	-.10960	-.11380	840.35000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D073) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 200.661 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 24/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.799	265.751	.05310	.00860	-.00540	-.04180	-.01730	-.18560	-.13440	-.09040	-.09600	840.63000
1.799	305.495	.05270	.00850	-.00550	-.04180	-.01750	-.17620	-.13130	-.08870	-.09330	840.63000
1.799	367.630	.05270	.00850	-.00550	-.04180	-.01750	-.16370	-.12530	-.08580	-.08870	840.91000
1.799	430.163	.05310	.00860	-.00550	-.04190	-.01780	-.15350	-.11980	-.08240	-.08450	840.63000
1.799	493.187	.05330	.00860	-.00550	-.04180	-.01750	-.14420	-.11430	-.07860	-.07890	840.91000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D074) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 268.756 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 25/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.799	270.139	.05250	.00850	-.00560	-.04190	-.01750	-.16480	-.10010	-.05390	-.05420	841.47000
1.799	308.321	.05310	.00850	-.00550	-.04210	-.01770	-.15580	-.09660	-.05110	-.05150	842.02000
1.799	429.540	.05260	.00850	-.00570	-.04220	-.01810	-.13420	-.08700	-.04470	-.04340	842.30000
1.799	493.833	.05300	.00850	-.00570	-.04220	-.01790	-.12560	-.08230	-.04070	-.03930	842.58000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D075) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 246.024 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 26/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.799	-5.022	.05430	.00880	-.00520	-.04150	-.01800	-.24460	-.24980	-.28660	-.28990	838.39000
1.799	267.524	.05290	.00850	-.00570	-.04200	-.01780	-.15910	-.09050	-.04270	-.04190	842.86000
1.799	304.918	.05360	.00860	-.00560	-.04220	-.01790	-.14940	-.08670	-.04040	-.03940	842.86000
1.799	368.635	.05320	.00850	-.00560	-.04240	-.01830	-.13760	-.08200	-.03700	-.03510	842.86000
1.799	427.720	.05240	.00850	-.00580	-.04230	-.01810	-.12770	-.07680	-.03230	-.02970	843.14000
1.799	495.808	.05300	.00850	-.00570	-.04240	-.01810	-.11910	-.07310	-.02930	-.02670	843.70000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D076) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 81.454 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 17/ 0 RN/L = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.550	-.028	.06790	.01190	-.00330	-.01550	-.01920	-.28360	-.30100	-.33740	-.33670	910.06000
1.550	234.438	.06960	.01190	-.00290	-.01580	-.02390	-.27610	-.23050	-.19380	-.20610	907.65000
1.550	269.335	.06940	.01190	-.00300	-.01590	-.02310	-.26180	-.22650	-.19040	-.20330	907.65000
1.550	306.756	.06810	.01170	-.00320	-.01610	-.02190	-.25120	-.22260	-.18850	-.20180	908.56000
1.550	344.734	.06720	.01170	-.00350	-.01610	-.02030	-.24040	-.21750	-.18630	-.19880	907.65000
1.550	396.657	.06750	.01170	-.00360	-.01600	-.01960	-.22820	-.21230	-.18320	-.19530	908.25000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D077) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 120.674 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 18/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.550	236.120	.06720	.01180	-.00360	-.01590	-.01770	-.26240	-.21100	-.16260	-.17570	907.95000
1.550	270.597	.06780	.01190	-.00370	-.01610	-.01730	-.24820	-.20560	-.15960	-.17360	908.25000
1.550	307.498	.06700	.01180	-.00380	-.01600	-.01730	-.23700	-.20150	-.15750	-.17100	908.25000
1.550	340.713	.06680	.01170	-.00390	-.01610	-.01600	-.22740	-.19730	-.15520	-.16850	908.56000
	397.836	.06590	.01160	-.00410	-.01620	-.01630	-.21600	-.19190	-.15230	-.16490	909.46000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D078) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 153.981 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 19/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.550	238.473	.06640	.01170	-.00410	-.01640	-.01510	-.24260	-.18330	-.12590	-.14070	909.76000
1.550	270.308	.06590	.01170	-.00420	-.01640	-.01520	-.23060	-.17880	-.12300	-.13800	909.76000
1.550	306.727	.06660	.01170	-.00420	-.01630	-.01470	-.22060	-.17510	-.12140	-.13510	910.06000
1.550	342.272	.06600	.01160	-.00430	-.01650	-.01460	-.21050	-.17010	-.11850	-.13170	907.95000
	395.886	.06650	.01160	-.00440	-.01650	-.01410	-.19870	-.16450	-.11560	-.12830	908.56000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D079) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.234 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 20/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.550	237.165	.06680	.01170	-.00430	-.01650	-.01380	-.22290	-.15330	-.08910	-.10180	908.86000
1.550	268.463	.06600	.01160	-.00450	-.01670	-.01390	-.21280	-.14950	-.08680	-.09930	909.16000
1.550	306.083	.06510	.01140	-.00460	-.01680	-.01360	-.20080	-.14420	-.08380	-.09500	909.76000
1.550	344.254	.06640	.01160	-.00460	-.01680	-.01360	-.19140	-.14010	-.08140	-.09340	909.76000
1.550	396.561	.06560	.01150	-.00480	-.01700	-.01320	-.18020	-.13390	-.07770	-.08850	910.06000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D080) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 236.910 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 21/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
1.550	236.805	.06620	.01160	-.00470	-.01720	-.01300	-.20720	-.12840	-.06020	-.07080	910.59000
1.550	266.814	.06630	.01150	-.00470	-.01720	-.01250	-.19740	-.12510	-.05770	-.06800	910.96000
1.550	307.553	.06640	.01160	-.00480	-.01760	-.01280	-.18740	-.12160	-.05670	-.06540	911.87000
1.550	341.146	.06640	.01160	-.00490	-.01760	-.01250	-.17830	-.11720	-.05350	-.06110	911.79000
1.550	397.808	.06610	.01160	-.00520	-.01780	-.01200	-.16680	-.11050	-.04980	-.05470	912.40000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D081) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1189.695 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 29/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	247.091	.03580	.00450	-.00330	-.06420	-.05370	-.09500	-.07560	-.05870	-.05470	546.97000
2.495	334.809	.03600	.00450	-.00320	-.06430	-.05350	-.08270	-.05740	-.03850	-.03360	547.15000
2.495	431.493	.03590	.00450	-.00330	-.06440	-.05320	-.07240	-.03750	-.02170	-.01630	547.51000
2.495	588.064	.03580	.00450	-.00350	-.06470	-.05270	-.06030	-.01720	.00340	.00630	548.06000
2.495	853.624	.03570	.00450	-.00360	-.06450	-.05160	-.04020	-.00090	.03510	.03580	549.33000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D082) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1286.983 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 30/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.495	248.696	.03680	.00450	-.00320	-.06430	-.05420	-.09160	-.07200	-.05510	-.05170	546.97000
2.495	335.497	.03640	.00450	-.00320	-.06430	-.05400	-.08020	-.05480	-.03670	-.03200	547.15000
2.495	431.264	.03660	.00450	-.00320	-.06440	-.05380	-.07070	-.03570	-.02150	-.01740	547.51000
2.495	588.751	.03740	.00460	-.00310	-.06460	-.05380	-.05610	-.01540	.00500	.00750	548.06000
2.495	853.396	.03710	.00460	-.00310	-.06450	-.05370	-.03910	-.00290	.03480	.03420	549.33000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D083) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SSMEPR =	892.658	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 27/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.195	171.937	.04940	.00710	-.00390	-.06300	-.03770	-.12920	-.11440	-.09170	-.08750	676.08000
2.195	246.292	.04950	.00720	-.00400	-.06300	-.03730	-.11680	-.08710	-.06250	-.05510	676.31000
2.195	332.042	.04870	.00710	-.00410	-.06330	-.03700	-.10380	-.06760	-.03800	-.02410	677.21000
2.195	421.144	.04900	.00710	-.00430	-.06340	-.03620	-.08680	-.04370	-.01260	-.00640	677.88000
2.195	532.514	.04640	.00690	-.00520	-.06390	-.03230	-.07440	-.01840	.01360	.01590	678.78000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D084) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SSMEPR =	988.268	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 28/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.195	173.747	.04920	.00710	-.00410	-.06300	-.03910	-.12290	-.10790	-.08630	-.08080	676.31000
2.195	242.620	.04980	.00710	-.00390	-.06310	-.03910	-.11120	-.08350	-.05930	-.05150	676.53000
2.195	328.599	.04940	.00710	-.00400	-.06320	-.03900	-.09880	-.06370	-.03680	-.02340	677.21000
2.195	420.578	.05000	.00710	-.00400	-.06350	-.03890	-.08320	-.03790	-.00990	-.00540	678.33000
2.195	529.047	.04970	.00710	-.00410	-.06400	-.03860	-.07240	-.01590	.01380	.01370	679.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D086) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 804.690 ALPHA = .000
BETA = .000 ELV-IB = .000
ELV-OB = -2.000

RUN NO. 215/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.195	459.491	.04110	.00610	.00080	-.00670	-.02960	-.08440	-.05030	-.00600	.00790	677.88000
2.195	459.921	.04100	.00610	.00070	-.00650	-.02640	-.09250	-.05540	-.00660	.00360	677.88000
2.195	462.478	.04090	.00600	.00080	-.00660	-.03010	-.07930	-.04460	-.00240	.01160	678.33000
2.195	463.612	.04080	.00600	.00070	-.00680	-.02980	-.07600	-.03630	.00230	.01030	678.55000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D087) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 498.342 ALPHA = .000
BETA = .000 ELV-IB = .000
ELV-OB = -2.000

RUN NO. 216/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
2.195	863.720	.04200	.00610	.00100	-.00700	-.03260	-.07800	-.04200	-.00090	.01100	680.58000
2.195	864.434	.04220	.00610	.00090	-.00750	-.03210	-.08620	-.03430	.01210	.02900	679.23000
2.195	867.441	.04240	.00620	.00110	-.00660	-.03310	-.08930	-.06420	-.02720	-.01530	678.33000
2.195	871.288	.04160	.00600	.00080	-.00810	-.03150	-.06470	-.02340	.02620	.04240	680.13000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (R3D089) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 154/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CNW	CBMW	CTMW	CHEI	CHEO	CPBORB	CPBET	CPBSL	CPBSR	Q
-4.373	-6.160	-.05230	-.01010	-.00390	.06280	.00340	-.18370	-.18590	-.14700	-.09730	908.56000
-4.473	-4.140	-.03240	-.00620	-.00310	.05010	-.00450	-.18650	-.18180	-.14070	-.07840	908.56000
-4.509	.114	.01740	.00310	-.00090	.02580	-.01460	-.19160	-.19160	-.11930	-.05280	908.86000
-4.299	4.278	.07240	.01260	.00350	.00280	-.01960	-.19580	-.18280	-.09540	-.03410	909.16000
-4.226	6.291	.09070	.01610	.00410	-.00450	-.02000	-.19730	-.17930	-.10790	-.03330	908.86000
	GRADIENT	.01245	.00223	.00078	-.00562	-.00180	-.00111	-.00013	.00538	.00527	.07128

IA138 AMES 246-1-97 OTS POWER OFF (S3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 31/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.101	-7.815	1.55000	2135.20001	540.80000	577.89000	390.34000	10.15400	-1.90650	105.67000	92.10000
-4.092	-5.842	1.55000	2135.20001	540.80000	578.78000	390.94000	10.06400	-2.01750	107.18000	92.75700
-4.073	-3.857	1.55000	2136.00000	540.98000	579.19000	391.22000	9.98140	-2.06450	107.60000	93.34400
-3.988	.039	1.55000	2135.20001	540.80000	579.80000	391.63000	9.83120	-2.12260	107.46000	94.27600
-3.980	3.902	1.55000	2136.00000	540.98000	580.31000	391.98000	9.69980	-2.14350	106.04000	95.45000
	GRADIENT	-.00000	-.00029	-.00006	.14437	.09796	-.03630	-.01019	.05658	.27139

RUN NO. 32/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.217	-7.784	1.55000	2134.50000	540.62000	582.70000	393.59000	10.18400	-1.85470	112.33000	98.41500
-.192	-5.815	1.55000	2136.20001	540.80000	582.80000	393.66000	10.12400	-1.80060	112.74000	98.51900
-.174	-3.808	1.55000	2134.50000	540.62000	583.07000	393.84000	10.03900	-1.96250	113.15000	98.69100
-.219	.158	1.55000	2134.50000	540.62000	583.14000	393.89000	9.91200	-2.07680	113.56000	99.51700
-.135	4.253	1.55000	2134.50000	540.62000	583.99000	394.46000	9.78550	-2.11720	115.61000	101.48000
	GRADIENT	-.00000	-.00000	-.00000	.11463	.07726	-.03144	-.01914	.30623	.34670

IA138 AMES 246-1-97 OTS POWER OFF (S3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 33/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.632	-7.853	1.55000	2134.50000	540.62000	584.40000	394.74000	10.21200	-1.48780	115.37000	103.13000
3.671	-5.874	1.55000	2133.10001	540.26000	584.64000	394.90000	10.16400	-1.59440	115.71000	103.06000
3.676	-3.871	1.55000	2134.50000	540.62000	584.91000	395.08000	10.10900	-1.72430	115.57000	103.16000
3.624	.053	1.55000	2134.50000	540.62000	584.84000	395.04000	10.01200	-1.98970	115.03000	103.51000
3.633	3.908	1.55000	2133.79999	540.44000	585.01000	395.15000	9.94110	-2.08150	115.99000	103.89000
	GRADIENT	.00000	-.08971	-.02307	.01276	.00894	-.02159	-.04598	.05341	.09382

IA138 AMES 246-1-97 OTS POWER OFF (S3D002) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 43/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.082	-5.833	1.79960	2123.20001	369.77000	577.79000	350.67000	9.85430	-1.96430	108.28000	92.86100
-4.072	-3.879	1.79960	2123.20001	369.77000	578.03000	350.81000	9.80630	-2.03550	107.66000	92.86100
-3.989	.021	1.79960	2123.20001	369.77000	578.27000	350.96000	9.69150	-2.14890	107.80000	92.79200
-3.982	3.883	1.79960	2123.89999	369.90000	577.99000	350.79000	9.56880	-2.20070	108.14000	92.99900
-4.006	5.880	1.79960	2123.20001	369.77000	577.93000	350.75000	9.51170	-2.17930	107.73000	93.44800
	GRADIENT	.00000	.09004	.01672	-.00505	-.00251	-.03060	-.02130	.06180	.01772

RUN NO. 42/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.190	-5.839	1.79960	2123.89999	369.90000	577.99000	350.79000	9.92620	-1.92850	106.36000	90.61400
-.173	-3.829	1.79960	2123.89999	369.90000	578.16000	350.90000	9.86970	-2.01310	106.63000	90.64900
-.161	.132	1.79960	2123.89999	369.90000	577.99000	350.79000	9.74330	-2.08380	107.53000	90.99400
-.108	4.234	1.79960	2123.89999	369.90000	577.79000	350.67000	9.66660	-2.18910	109.48000	91.37500
-.094	6.226	1.79960	2123.20001	369.77000	577.96000	350.77000	9.60810	-2.21830	111.02000	92.03100
	GRADIENT	-.00000	-.00000	-.00000	-.04591	-.02853	-.02515	-.02185	.35419	.09006

IA138 AMES 246-1-97 OTS POWER OFF (S3D002) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 41/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.710	-5.890	1.79960	2124.60001	370.02000	578.64000	351.19000	10.03700	-1.85660	90.16400	57.58700
3.715	-3.888	1.79960	2123.89999	369.90000	578.51000	351.10000	10.00800	-1.93610	99.00100	64.46500
3.663	.039	1.79960	2123.20001	369.77000	577.86000	350.71000	9.88070	-2.05440	106.39000	86.77200
3.673	3.887	1.79960	2123.20001	369.77000	577.99000	350.79000	9.79490	-2.12050	106.77000	87.66100
3.703	5.861	1.79960	2124.60001	370.02000	578.37000	351.02000	9.77010	-2.15460	108.69000	89.16100
	GRADIENT	-.00000	-.09033	-.01678	-.06722	-.04008	-.02743	-.02374	1.00230	3.02229

IA138 AMES 246-1-97 OTS POWER OFF (S3D003) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 49/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.080	-5.344	2.19500	2122.50000	200.06000	566.46000	288.48000	9.72770	-2.09970	92.89500	73.91800
-4.064	-3.360	2.19500	2121.79999	199.99000	566.29000	288.39000	9.67750	-2.14140	92.99900	73.98600
-3.965	.543	2.19500	2122.50000	200.06000	566.66000	288.58000	9.57650	-2.19810	91.82400	74.02200
-3.970	4.407	2.19500	2122.50000	200.06000	566.90000	288.71000	9.52390	-2.22570	91.37500	74.44100
-3.989	6.403	2.19500	2122.50000	200.06000	566.73000	288.62000	9.47940	-2.21580	91.78900	74.96300
	GRADIENT	-.00000	.09026	.00903	.07857	.04121	-.01979	-.01086	-.20925	.05824

RUN NO. 48/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.177	-5.316	2.19500	2121.79999	199.99000	566.70000	288.60000	9.63190	-2.07300	91.20200	69.20900
-.161	-3.308	2.19500	2122.50000	200.06000	566.97000	288.74000	9.58900	-2.11830	91.92800	70.18700
-.151	.661	2.19500	2122.50000	200.06000	566.56000	288.53000	9.68250	-2.18240	92.17000	71.05900
-.097	4.759	2.19500	2122.50000	200.06000	566.39000	288.44000	9.61450	-2.22090	92.48100	71.89500
-.083	6.750	2.19500	2123.20001	200.13000	566.73000	288.62000	9.58740	-2.21440	92.72200	72.76800
	GRADIENT	.00000	-.00000	.00000	-.07173	-.03711	-.02160	-.01270	.06850	.21181

IA138 AMES 246-1-97 OTS POWER OFF (S3D003) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 47/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.727	-5.371	2.19500	2122.50000	200.06000	567.38000	288.95000	9.97380	-2.07650	79.97200	50.97900
3.731	-3.366	2.19500	2122.50000	200.06000	567.62000	289.07000	9.92330	-2.10470	84.48500	55.09300
3.681	.562	2.19500	2122.50000	200.06000	567.08000	288.79000	9.80770	-2.15680	86.98000	60.04200
3.684	4.407	2.19500	2123.20001	200.13000	567.32000	288.92000	9.71430	-2.18450	89.02300	63.86100
3.712	6.388	2.19500	2122.50000	200.06000	567.11000	288.81000	9.70670	-2.16640	91.20200	66.51900
	GRADIENT	.00000	.08973	.00897	-.03895	-.01948	-.02690	-.01028	.58399	1.12846

IA138 AMES 246-1-97 OTS POWER OFF (S3D004) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 50/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.024	-6.085	2.49460	2186.89999	129.07000	562.78000	250.72000	9.74340	-2.12100	88.60800	75.45000
-4.011	-4.102	2.49460	2138.10001	126.19000	562.13000	250.43000	9.71180	-2.15030	87.53400	74.92800
-3.918	-.196	2.49460	2120.39999	125.14000	562.64000	250.66000	9.64240	-2.18710	86.53000	74.05700
-3.926	3.662	2.49460	2119.00000	125.06000	562.13000	250.43000	9.57560	-2.19550	85.80200	73.63900
-3.946	5.656	2.49460	2121.79999	125.23000	562.47000	250.59000	9.56050	-2.18660	85.00500	73.32600
	GRADIENT	.00000	-2.46443	-.14580	.00027	.00012	-.01754	-.00583	-.22316	-.16615

RUN NO. 51/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.129	-6.060	2.49460	2122.50000	125.27000	562.64000	250.66000	9.85560	-2.11330	86.39100	73.18600
-.112	-4.050	2.49460	2122.50000	125.27000	561.82000	250.29000	9.81760	-2.14400	86.39100	72.90700
-.103	-.081	2.49460	2122.50000	125.27000	562.33000	250.52000	9.74070	-2.18800	86.04500	72.73300
-.048	4.017	2.49460	2122.50000	125.27000	561.61000	250.20000	9.67570	-2.19960	85.42100	72.48900
-.035	6.007	2.49460	2122.50000	125.27000	562.47000	250.59000	9.65680	-2.18860	84.93600	72.48900
	GRADIENT	-.00000	-.00000	-.00000	-.02685	-.01152	-.01758	-.00687	-.12042	-.05186

IA138 AMES 246-1-97 OTS POWER OFF (S3D004) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 52/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.772	-6.115	2.49460	2123.20001	125.31000	561.92000	250.34000	9.97000	-2.10720	85.04000	72.55900
3.779	-4.112	2.49460	2122.50000	125.27000	561.41000	250.11000	9.94200	-2.13500	84.90100	72.55900
3.730	-.181	2.49460	2122.50000	125.27000	561.68000	250.23000	9.86240	-2.15430	84.83200	72.41900
3.734	3.666	2.49460	2122.50000	125.27000	562.16000	250.45000	9.79000	-2.19130	85.07400	72.69800
3.763	5.642	2.49460	2121.79999	125.23000	562.37000	250.54000	9.75870	-2.18230	85.24800	72.87200
	GRADIENT	.00000	-.00000	.00000	.09633	.04367	-.01955	-.00724	.02210	.01767

IA138 AMES 246-1-97 OTS POWER OFF (S3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 58/ 0 RN/L = 3.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.080	-5.831	1.79960	2135.20001	371.87000	568.79000	345.21000	9.85680	-4.99230	48.51300	78.79100
-4.073	-3.878	1.79960	2136.00000	371.99000	569.44000	345.60000	9.80440	-5.03440	59.09500	80.21500
-3.992	.025	1.79960	2134.50000	371.75000	570.47000	346.23000	9.66790	-5.14080	45.48100	81.01400
-3.986	3.888	1.79960	2135.20001	371.87000	570.88000	346.47000	9.53780	-5.20080	39.47400	81.77800
-4.005	5.884	1.79960	2135.20001	371.87000	570.95000	346.52000	9.47710	-5.18690	44.13900	82.82000
	GRADIENT	.00000	-.10348	-.01553	.18555	.11211	-.03433	-.02144	-2.52812	.20127

RUN NO. 59/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.209	-6.221	1.79960	2134.50000	371.75000	571.87000	347.08000	9.92500	-4.90760	63.25500	85.76800
-.215	-4.281	1.79960	2133.79999	371.62000	572.49000	347.45000	9.86380	-4.93340	59.55100	86.04500
-.199	-.249	1.79960	2135.20001	371.87000	572.76000	347.62000	9.73850	-5.06380	100.27000	86.29702
-.171	3.789	1.79960	2134.50000	371.75000	573.52000	348.07000	9.64390	-5.16290	101.38000	87.08400
-.155	5.801	1.79960	2134.50000	371.75000	573.59000	348.12000	9.58250	-5.19990	102.79000	87.43000
	GRADIENT	.00000	.08668	.01610	.12764	.07683	-.02725	-.02842	5.18171	.12875

IA138 AMES 246-1-97 OTS POWER OFF (S3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 60/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.893	-6.217	1.79960	2134.50000	371.75000	573.72000	348.20000	10.03400	-4.73270	101.72000	88.43400
3.988	-4.244	1.79960	2135.20001	371.87000	574.17000	348.47000	9.98290	-4.83370	101.75000	88.50400
4.103	-.036	1.79960	2135.20001	371.87000	574.03000	348.39000	9.86990	-5.01800	101.41000	88.67700
4.018	4.143	1.79960	2134.50000	371.75000	574.41000	348.61000	9.77040	-5.10200	101.38000	89.05700
3.984	6.172	1.79960	2135.20001	371.87000	574.24000	348.51000	9.73890	-5.13370	103.03000	89.47300
	GRADIENT	-.00000	-.08338	-.01429	.02855	.01665	-.02534	-.03201	-.04416	.06591

IA138 AMES 246-1-97 OTS POWER OFF (S3D006) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 69/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.073	-5.309	2.19500	2133.10001	201.06000	567.25000	288.88000	9.68480	-5.04330	93.10200	72.07000
-4.062	-3.357	2.19500	2133.79999	201.13000	567.62000	289.07000	9.63160	-5.10490	93.89700	72.31500
-3.977	.544	2.19500	2133.10001	201.06000	566.80000	288.65000	9.53210	-5.17200	92.72200	72.38400
-3.970	4.412	2.19500	2133.10001	201.06000	566.53000	288.51000	9.47880	-5.20420	92.06600	72.66300
-3.988	6.404	2.19500	2133.79999	201.13000	566.32000	288.41000	9.43660	-5.19920	92.30800	73.01200
	GRADIENT	.00000	-.09023	-.00902	-.14041	-.07214	-.01967	-.01279	-.23579	.04476

RUN NO. 68/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.200	-5.699	2.19500	2133.10001	201.06000	566.80000	288.65000	9.80980	-5.03440	91.06400	66.62400
-.205	-3.761	2.19500	2133.10001	201.06000	567.59000	289.06000	9.75950	-5.09220	92.34200	68.44100
-.188	.276	2.19500	2133.79999	201.13000	566.87000	288.69000	9.64790	-5.15320	92.72200	69.13900
-.160	4.311	2.19500	2133.79999	201.13000	566.94000	288.72000	9.57860	-5.20400	92.51500	70.25600
-.143	6.320	2.19500	2134.50000	201.19000	567.08000	288.79000	9.55320	-5.19520	92.79200	70.85000
	GRADIENT	.00000	.08672	.00867	-.08053	-.04212	-.02241	-.01385	.02144	.22485

IA138 AMES 246-1-97 OTS POWER OFF (S3D006) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 67/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.900	-5.695	2.19500	2133.79999	201.13000	567.66000	289.09000	9.96920	-5.04340	81.91700	50.69700
3.994	-3.720	2.19500	2133.79999	201.13000	566.77000	288.64000	9.91270	-5.07250	85.00500	55.63100
4.111	.484	2.19500	2133.79999	201.13000	566.73000	288.62000	9.78400	-5.13120	87.22300	59.34100
4.022	4.683	2.19500	2133.10001	201.05000	567.14000	288.83000	9.67430	-5.16960	89.36900	61.58400
3.989	6.696	2.19500	2133.79999	201.13000	566.70000	288.60000	9.67180	-5.16070	91.44400	63.65100
	GRADIENT	-.00000	-.08341	-.00834	.04408	.02264	-.02844	-.01159	.52054	.68637

IA138 AMES 246-1-97 OTS POWER OFF (S3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 70/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.018	-6.052	2.49460	2129.60001	125.69000	562.27000	250.49000	9.71690	-5.11550	87.77700	72.90700
-4.011	-4.100	2.49460	2129.60001	125.69000	562.23000	250.48000	9.67950	-5.14260	87.08400	72.00100
-3.929	-.200	2.49460	2139.50000	126.27000	561.96000	250.36000	9.60470	-5.17360	86.49500	71.51200
-3.925	3.668	2.49460	2133.10001	125.89000	561.96000	250.36000	9.53560	-5.18750	85.69800	71.12900
-3.947	5.660	2.49460	2135.20001	126.02000	561.92000	250.34000	9.51970	-5.17390	85.49000	70.91900
	GRADIENT	.00000	.45359	.02592	-.03481	-.01547	-.01853	-.00578	-.17940	-.11228

RUN NO. 71/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.150	-6.442	2.49460	2135.20001	126.02000	561.85000	250.31000	9.83490	-5.09460	86.98000	71.02400
-.156	-4.504	2.49460	2135.20001	126.02000	561.72000	250.25000	9.79790	-5.12630	86.97600	70.85000
-.137	-.473	2.49460	2135.20001	126.02000	561.99000	250.37000	9.71160	-5.16880	86.18300	70.60500
-.111	3.566	2.49460	2135.20001	126.02000	561.78000	250.28000	9.64260	-5.19010	85.73300	70.50100
-.095	5.577	2.49460	2134.50000	125.98000	561.99000	250.37000	9.61520	-5.18340	85.31700	70.43100
	GRADIENT	.00000	.00000	.00000	.00742	.00371	-.01922	-.00791	-.14164	-.04324

IA138 AMES 246-1-97 OTS POWER OFF (S3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 72/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.746	-6.091	2.49460	2134.50000	125.98000	561.68000	250.23000	9.94100	-5.08020	85.49000	71.86100
3.777	-4.109	2.49460	2135.20001	126.02000	561.41000	250.11000	9.91410	-5.11060	85.42100	71.79200
3.725	-.180	2.49460	2134.50000	125.98000	561.82000	250.29000	9.82630	-5.15000	85.45600	71.72200
3.734	3.671	2.49460	2135.20001	126.02000	561.30000	250.06000	9.74840	-5.17730	85.59400	71.75700
3.764	5.647	2.49460	2135.20001	126.02000	561.10000	249.97000	9.71850	-5.17920	85.80200	71.89600
	GRADIENT	.00000	-.00060	-.00003	-.01374	-.00625	-.02130	-.00858	.02219	-.00454

IA138 AMES 246-1-97 OTS POWER OFF (S3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 77/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.317	-8.161	1.55000	2136.00000	540.98000	574.06000	387.75000	10.16300	-6.60010	49.88700	81.98700
-4.410	-6.189	1.55000	2136.70001	541.16000	575.06000	388.42000	10.07000	-6.72590	37.52700	85.10900
-4.470	-4.144	1.55000	2136.00000	540.98000	576.29000	389.26000	9.98210	-6.84140	37.35000	86.14900
-4.511	.110	1.55000	2135.20001	540.80000	576.35000	389.30000	9.81070	-6.97870	39.26200	87.22300
-4.297	4.274	1.55000	2135.20001	540.80000	577.24000	389.90000	9.66200	-7.03030	36.14600	88.64200
	GRADIENT	.00000	-.09537	-.02146	.11250	.07579	-.03803	-.02248	-.14089	.29599

RUN NO. 78/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.245	-7.790	1.55000	2136.00000	540.98000	578.10000	390.48000	10.17600	-6.37950	40.07500	90.71800
-.218	-5.821	1.55000	2136.00000	540.98000	577.75000	390.25000	10.11400	-6.53260	55.19900	91.37500
-.202	-3.813	1.55000	2136.00000	540.98000	578.68000	390.87000	10.03700	-6.70280	39.93400	91.92800
-.205	.151	1.55000	2136.00000	540.98000	579.26000	391.26000	9.89760	-6.93870	41.31300	92.58400
-.143	4.253	1.55000	2135.20001	540.80000	579.02000	391.10000	9.77430	-7.01460	46.61000	93.58600
	GRADIENT	-.00000	-.09973	-.02244	.04156	.02812	-.03255	-.03854	.83030	.20576

IA138 AMES 246-1-97 OTS POWER OFF (S3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 79/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.775	-8.201	1.55000	2136.00000	540.98000	579.73000	391.58000	10.22000	-6.18080	55.30400	95.10500
3.855	-6.249	1.55000	2135.20001	540.80000	580.45000	392.07000	10.16800	-6.29120	52.66800	95.62200
3.943	-4.229	1.55000	2133.79999	540.44000	580.48000	392.09000	10.09200	-6.40730	40.21700	96.03600
4.062	-.022	1.55000	2134.50000	540.62000	580.55000	392.14000	10.01000	-6.72320	47.87900	96.62300
3.978	4.159	1.55000	2134.50000	540.62000	581.37000	392.69000	9.93050	-6.92930	51.75300	97.24300
	GRADIENT	.00000	.08354	.02148	.10601	.07147	-.01925	-.06224	1.37575	.14389

IA138 AMES 246-1-97 OTS POWER OFF (S3D009) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 88/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.329	-6.183	1.79910	2134.50000	371.99000	577.48000	350.55000	9.85180	-6.74490	106.84000	93.13700
-4.431	-4.153	1.79910	2135.20001	372.12000	577.75000	350.71000	9.79400	-6.85220	105.91000	93.03300
-4.469	.092	1.79910	2135.20001	372.12000	577.45000	350.53000	9.66830	-7.04710	106.15000	92.95400
-4.259	4.257	1.79910	2134.50000	371.99000	577.52000	350.57000	9.52730	-7.09690	105.74000	93.13700
-4.186	6.273	1.79910	2134.50000	371.99000	577.65000	350.65000	9.47520	-7.06660	105.78000	93.48200
	GRADIENT	.00000	-.08284	-.01536	-.02747	-.01672	-.03167	-.02912	-.01992	.01225

RUN NO. 87/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.187	-5.803	1.79910	2136.00000	372.24000	576.42000	349.91000	9.88350	-6.67780	106.38000	89.43800
-.160	-3.828	1.79910	2135.20001	372.12000	576.53000	349.97000	9.84750	-6.80730	104.75000	90.19900
-.165	.135	1.79910	2135.20001	372.12000	576.87000	350.17000	9.72690	-6.97050	105.50000	90.57900
-.105	4.236	1.79910	2135.20001	372.12000	577.04000	350.28000	9.64220	-7.09200	106.94000	90.96000
-.092	6.226	1.79910	2134.50000	371.98000	577.04000	350.28000	9.57800	-7.11950	108.86000	91.72000
	GRADIENT	-.00000	-.00000	-.00000	.05312	.03837	-.02543	-.03527	.25956	.09436

IA138 AMES 246-1-97 OTS POWER OFF (S3D009) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 86/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.991	-6.224	1.79910	2138.10001	372.61000	575.26000	349.20000	10.02900	-6.64640	100.76000	82.05600
3.987	-4.245	1.79910	2136.70001	372.36000	575.67000	349.45000	9.99370	-6.73910	101.82000	83.37500
4.106	-.037	1.79910	2136.00000	372.24000	575.64000	349.43000	9.87370	-6.92390	101.62000	84.58900
4.017	4.143	1.79910	2136.00000	372.24000	575.88000	349.57000	9.77580	-7.04590	101.65000	85.80200
3.984	6.177	1.79910	2136.00000	372.24000	576.08000	349.70000	9.75060	-7.07040	105.60000	87.08400
	GRADIENT	-.00000	-.08355	-.01432	.02500	.01429	-.02598	-.03659	-.02030	.28935

IA138 AMES 246-1-97 OTS POWER OFF (S3D010) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 89/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.320	-5.658	2.19550	2138.79998	201.44000	564.29000	287.31000	9.71150	-7.04600	84.58900	75.83300
-4.420	-3.639	2.19550	2134.50000	201.04000	564.47000	287.40000	9.65600	-7.07960	85.73300	76.14700
-4.454	.614	2.19550	2136.00000	201.17000	564.57000	287.45000	9.54870	-7.14290	85.73300	76.46000
-4.242	4.779	2.19550	2135.20001	201.10000	565.02000	287.68000	9.49110	-7.16180	86.11400	76.91200
-4.168	6.796	2.19550	2134.50000	201.04000	564.81000	287.57000	9.45090	-7.13620	85.76800	77.39900
	GRADIENT	.00000	.08410	.00721	.06518	.03318	-.01961	-.00978	.04510	.09081

RUN NO. 90/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.205	-5.707	2.19550	2134.50000	201.04000	565.53000	287.94000	9.81950	-7.00570	88.81500	78.99900
-.214	-3.772	2.19550	2135.20001	201.10000	566.01000	288.19000	9.77440	-7.04370	89.30000	79.24200
-.191	.261	2.19550	2133.79999	200.97000	566.22000	288.29000	9.66460	-7.11170	89.99200	79.45100
-.163	4.306	2.19550	2133.79999	200.97000	566.39000	288.38000	9.59610	-7.15520	90.26800	79.76400
	GRADIENT	-.00000	-.17323	-.01609	.04704	.02352	-.02207	-.01380	.11980	.06462

IA138 AMES 246-1-97 OTS POWER OFF (S3D010) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-7.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 91/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.905	-5.700	2.19550	2133.79999	200.97000	566.56000	288.47000	9.97640	-6.92850	90.33700	81.15300
4.002	-3.727	2.19550	2133.10001	200.90000	567.18000	288.78000	9.92390	-7.00300	90.19900	81.15300
4.119	.481	2.19550	2133.79999	200.97000	566.80000	288.59000	9.80070	-7.07340	90.26800	81.15300
4.026	4.663	2.19550	2133.10001	200.90000	566.90000	288.64000	9.69310	-7.11440	91.27100	81.25800
3.993	6.692	2.19550	2133.79999	200.97000	567.01000	288.69000	9.69300	-7.10280	92.72200	81.67400
	GRADIENT	-.00000	.00017	.00002	-.03344	-.01672	-.02751	-.01328	.12767	.01250

IA138 AMES 246-1-97 OTS POWER OFF (S3D011) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 229/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.264	-6.397	2.49460	2135.20001	126.02000	559.00000	249.04000	9.73180	1.81930	80.11100	70.01200
-4.368	-4.375	2.49460	2135.20001	126.02000	558.69000	248.90000	9.68960	1.81130	80.70200	70.64000
-4.404	-.124	2.49460	2135.20001	126.02000	558.65000	248.88000	9.60080	1.77580	80.77100	71.12900
-4.198	4.037	2.49460	2134.50000	125.98000	558.79000	248.94000	9.53830	1.75870	80.86700	71.65200
-4.126	6.050	2.49460	2135.20001	126.02000	559.24000	249.14000	9.51730	1.75800	80.77100	72.41900
	GRADIENT	-.00000	-.08292	-.00474	.01181	.00472	-.01800	-.00626	-.00409	.12028

RUN NO. 229/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.149	-6.439	2.49460	2132.39999	125.85000	558.58000	248.85000	9.85050	1.85990	77.93400	58.71000
-.156	-4.496	2.49460	2132.39999	125.85000	558.93000	249.01000	9.80660	1.83990	79.27700	60.70800
-.140	-.463	2.49460	2131.70001	125.81000	558.82000	248.96000	9.71620	1.79870	79.24200	62.56500
-.112	3.572	2.49460	2132.39999	125.85000	558.51000	248.82000	9.64910	1.76780	79.31200	64.07100
-.095	5.578	2.49460	2132.39999	125.85000	559.20000	249.13000	9.61920	1.78570	79.41800	66.34400
	GRADIENT	.00000	.00002	.00000	-.05206	-.02355	-.01951	-.00892	.00434	.41681

IA138 AMES 246-1-97 OTS POWER OFF (S3D011) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 227/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.882	-6.439	2.49460	2136.00000	126.06000	556.41000	247.89000	9.96720	1.84990	69.59300	41.73700
3.977	-4.460	2.49460	2132.39999	125.85000	557.00000	248.15000	9.93840	1.82980	72.03600	45.12800
4.101	-.255	2.49460	2131.70001	125.81000	557.20000	248.24000	9.84800	1.80770	73.46500	48.23100
4.014	3.925	2.49460	2132.39999	125.85000	557.55000	248.39000	9.76180	1.77380	74.85800	51.11900
3.981	5.952	2.49460	2131.00000	125.77000	558.00000	248.59000	9.72760	1.77640	76.73800	53.79300
	GRADIENT	.00000	-.00016	-.00001	.06558	.02862	-.02106	-.00668	.33656	.71453

IA138 AMES 246-1-97 OTS POWER OFF (S3D012) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-2.000
MACH =	1.550	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 101/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.315	-8.151	1.55000	2133.79999	540.44000	589.67000	398.30000	12.00400	-1.92020	121.11000	102.65000
-4.407	-6.183	1.55000	2134.50000	540.62000	589.74000	398.34000	11.92100	-2.04110	121.21000	102.86000
-4.468	-4.136	1.55000	2133.10001	540.26000	590.25000	398.69000	11.82800	-2.10070	121.00000	102.82000
-4.503	.113	1.55000	2133.79999	540.44000	589.98000	398.50000	11.65900	-2.15860	119.91000	103.23000
-4.296	4.272	1.55000	2134.50000	540.62000	589.74000	398.34000	11.54100	-2.18830	119.91000	103.75000
-4.220	6.289	1.55000	2133.10001	540.26000	589.88000	398.43000	11.50500	-2.17980	121.75000	104.44000
	GRADIENT	.00000	.16649	.04281	-.06066	-.04163	-.03415	-.01043	-.13009	.11055

RUN NO. 100/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.265	-8.168	1.55000	2134.50000	540.62000	588.96000	397.81000	12.04300	-1.74700	120.39000	95.89800
-.270	-6.243	1.55000	2134.50000	540.62000	589.33000	398.07000	11.98900	-1.86870	119.81000	96.79500
-.258	-4.260	1.55000	2134.50000	540.62000	589.09000	397.91000	11.90000	-2.02100	120.29000	97.48500
-.240	-.227	1.55000	2133.79999	540.44000	589.64000	398.27000	11.76200	-2.14820	120.80000	98.34600
-.212	3.807	1.55000	2134.50000	540.62000	589.64000	398.27000	11.64900	-2.18830	122.16000	99.65500
-.195	5.817	1.55000	2133.79999	540.44000	590.25000	398.69000	11.59400	-2.18190	124.51000	100.55000
	GRADIENT	.00000	.00001	.00000	.06818	.04462	-.03111	-.02074	.23181	.26900

IA138 AMES 246-1-97 OTS POWER OFF (S3D012) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 99/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.769	-8.191	1.55000	2123.89999	537.93000	588.35000	397.40000	12.07700	-1.58950	111.61000	73.95300
3.849	-6.242	1.55000	2130.29999	539.55000	588.18000	397.29000	12.02900	-1.71720	114.48000	78.89500
3.937	-4.224	1.55000	2131.00000	539.72000	588.41000	397.45000	11.96200	-1.82440	116.53000	83.06300
4.056	-.021	1.55000	2133.10001	540.26000	588.55000	397.54000	11.87100	-2.06730	117.66000	86.35700
3.968	4.157	1.55000	2133.79999	540.44000	588.58000	397.56000	11.80000	-2.16420	119.78000	89.30000
3.938	6.188	1.55000	2133.79999	540.44000	588.89000	397.77000	11.77100	-2.17570	121.96000	91.54800
	GRADIENT	-.00000	.33427	.08596	.02030	.01313	-.01933	-.04056	.38768	.74426

IA138 AMES 246-1-97 OTS POWER OFF (S3D013) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 102/ 0 RN/L = 3.70 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.274	-8.166	1.79960	2134.50000	371.75000	584.71000	354.87000	11.82700	-1.99450	114.31000	100.76000
-4.367	-6.199	1.79960	2133.79999	371.62000	583.82000	354.33000	11.74700	-2.05450	114.07000	99.96500
-4.429	-4.154	1.79960	2133.10001	371.50000	583.93000	354.39000	11.69200	-2.10430	113.93000	99.55200
-4.463	.097	1.79960	2134.50000	371.75000	584.20000	354.56000	11.65600	-2.22910	113.63000	99.34500
-4.259	4.257	1.79960	2133.10001	371.50000	583.49000	354.12000	11.41900	-2.27520	113.15000	99.44900
-4.183	6.274	1.79960	2133.79999	371.62000	583.52000	354.14000	11.36400	-2.24960	112.77000	99.58600
	GRADIENT	-.00000	.00121	.00022	-.05307	-.03184	-.03246	-.02035	-.09266	-.01239

RUN NO. 103/ 0 RN/L = 3.71 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.206	-7.790	1.79960	2133.10001	371.50000	583.14000	353.92000	11.88700	-1.86320	113.80000	100.14000
-.178	-5.827	1.79960	2133.10001	371.50000	583.11000	353.90000	11.80700	-2.00570	112.53000	100.03000
-.162	-3.821	1.79960	2134.50000	371.75000	583.38000	354.06000	11.74700	-2.06230	112.91000	99.79300
-.167	.138	1.79960	2136.00000	371.99000	583.31000	354.02000	11.61800	-2.15690	113.59000	99.62100
-.104	4.234	1.79960	2134.50000	371.75000	583.14000	353.92000	11.53800	-2.26020	115.16000	99.65000
-.091	6.223	1.79960	2136.00000	371.99000	583.38000	354.06000	11.47600	-2.28980	116.46000	99.98500
	GRADIENT	.00000	-.00213	-.00034	-.02986	-.01742	-.02591	-.02457	.27993	-.01638

IA138 AMES 246-1-97 OTS POWER OFF (S3D013) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 104/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.811	-8.205	1.79960	2135.20001	371.87000	583.11000	353.90000	11.99700	-1.77270	113.59000	100.62000
3.891	-6.255	1.79960	2136.70001	372.11000	582.77000	353.69000	11.94400	-1.87970	112.98000	100.38000
3.979	-4.237	1.79960	2134.50000	371.75000	582.77000	353.69000	11.90300	-1.97510	112.87000	100.10000
4.096	-.034	1.79960	2135.20001	371.87000	583.41000	354.08000	11.78000	-2.09950	112.36000	99.86200
4.012	4.141	1.79960	2136.70001	372.11000	583.11000	353.90000	11.68200	-2.19140	112.02000	99.82700
3.981	6.173	1.79960	2136.00000	371.99000	582.94000	353.79000	11.64800	-2.22360	113.76000	100.03000
	GRADIENT	.00000	.26248	.04295	.04070	.02514	-.02638	-.02582	-.10147	-.03261

IA138 AMES 246-1-97 OTS POWER OFF (S3D014) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 153/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.327	-6.171	1.79960	2135.20001	371.87000	579.05000	351.43000	11.76200	-4.93930	108.69000	88.91900
-4.426	-4.150	1.79960	2135.20001	371.87000	579.26000	351.56000	11.71400	-5.02400	108.38000	90.09500
-4.463	.100	1.79960	2136.00000	371.99000	579.32000	351.60000	11.58400	-5.15360	108.35000	90.44100
-4.259	4.256	1.79960	2135.20001	371.87000	579.87000	351.93000	11.44700	-5.20800	108.21000	90.92500
-4.182	6.272	1.79960	2135.20001	371.87000	579.56000	351.74000	11.39300	-5.19320	107.80000	91.82400
	GRADIENT	.00000	.00071	.00011	.07234	.04388	-.03176	-.02192	-.02017	.09867

RUN NO. 152/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.213	-6.216	1.79960	2135.20001	371.87000	578.64000	351.19000	11.83200	-4.88930	104.81000	79.86800
-.218	-4.275	1.79960	2136.70001	372.11000	578.92000	351.35000	11.77900	-4.99270	105.60000	82.02100
-.196	-.245	1.79960	2135.20001	371.87000	578.98000	351.39000	11.65400	-5.08380	107.94000	83.75700
-.173	3.793	1.79960	2134.50000	371.75000	578.74000	351.25000	11.56900	-5.18710	109.45000	85.28200
-.156	5.802	1.79960	2135.20001	371.87000	579.43000	351.66000	11.50800	-5.22860	110.85000	86.70300
	GRADIENT	.00000	-.27264	-.04481	-.02232	-.01240	-.02603	-.02410	.47715	.40417

IA138 AMES 246-1-97 OTS POWER OFF (S3D014) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 151/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.822	-6.214	1.79960	2133.10001	371.50000	577.24000	350.34000	11.94900	-4.84790	86.57300	48.19600
3.916	-4.237	1.79960	2133.79999	371.62000	577.75000	350.65000	11.91100	-4.95210	96.27800	57.37600
4.035	-.034	1.79960	2136.00000	371.99000	577.75000	350.65000	11.79900	-5.07520	99.03500	63.79100
3.952	4.145	1.79960	2136.00000	371.99000	578.20000	350.92000	11.70000	-5.15090	100.65000	68.58100
3.917	6.174	1.79960	2137.39999	372.24000	577.75000	350.65000	11.66700	-5.18710	104.51000	72.80300
	GRADIENT	.00000	.26272	.04418	.05364	.03218	-.02517	-.02372	.52173	1.33699

IA138 AMES 246-1-97 OTS POWER OFF (S3D015) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 130/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.135	-7.811	1.55000	2134.50000	540.62000	581.20000	392.57000	12.01200	-6.75850	111.20000	97.14000
-4.128	-5.841	1.55000	2134.50000	540.62000	581.54000	392.80000	11.92900	-6.89140	111.33000	97.48500
-4.112	-3.859	1.55000	2133.10001	540.26000	581.85000	393.01000	11.84500	-6.99710	111.61000	97.65700
-4.028	.041	1.55000	2136.00000	540.98000	582.02000	393.13000	11.70500	-7.07240	111.09000	97.93300
-4.024	3.905	1.55000	2136.70001	541.16000	582.39000	393.38000	11.57500	-7.11400	110.96000	98.41500
-4.044	5.897	1.55000	2136.70001	541.16000	582.50000	393.45000	11.53700	-7.11850	112.29000	98.96600
	GRADIENT	-.00000	.46415	.11603	.06952	.04763	-.03478	-.01506	-.08386	.09760

RUN NO. 129/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.243	-7.786	1.55000	2135.20001	540.80000	578.03000	390.43000	12.03900	-6.62730	107.18000	92.65300
-.218	-5.813	1.55000	2136.00000	540.98000	578.37000	390.66000	11.99300	-6.75530	107.73000	93.03300
-.202	-3.806	1.55000	2134.50000	540.62000	579.05000	391.12000	11.90900	-6.93050	108.45000	93.31000
-.205	.156	1.55000	2134.50000	540.62000	579.53000	391.45000	11.78400	-7.08070	109.38000	93.93100
-.144	4.252	1.55000	2135.20001	540.80000	580.21000	391.91000	11.67200	-7.12400	111.47000	94.72500
-.131	6.241	1.55000	2135.20001	540.80000	580.59000	392.16000	11.62100	-7.12840	113.49000	95.58800
	GRADIENT	-.00000	.08735	.02246	.14408	.09812	-.02940	-.02384	.37556	.17571

IA138 AMES 246-1-97 OTS POWER OFF (S3D015) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 128/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.629	-7.852	1.55000	2135.20001	540.80000	573.82000	387.59000	12.08000	-6.53010	102.17000	85.07400
3.671	-5.871	1.55000	2136.70001	541.16000	574.17000	387.82000	12.03900	-6.62270	103.27000	86.07900
3.675	-3.870	1.55000	2134.50000	540.62000	575.26000	388.56000	11.98500	-6.75250	104.02000	87.11900
3.627	.061	1.55000	2135.20001	540.80000	575.88000	388.98000	11.89800	-7.02620	104.51000	88.36500
3.629	3.907	1.55000	2135.20001	540.80000	576.32000	389.28000	11.82700	-7.12250	106.29000	89.61100
3.658	5.883	1.55000	2135.20001	540.80000	577.11000	389.81000	11.79800	-7.12270	108.93000	90.68300
	GRADIENT	.00000	.09034	.02323	.13638	.09264	-.02032	-.04766	.29128	.32043

IA138 AMES 246-1-97 OTS POWER OFF (S3D016) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 139/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.084	-5.828	1.79960	2135.20001	371.87000	580.35000	352.22000	11.73500	-6.92310	110.78000	91.65100
-4.074	-3.877	1.79960	2136.00000	371.99000	580.42000	352.26000	11.69200	-7.01900	109.96000	92.17000
-3.995	.025	1.79960	2136.70001	372.11000	580.65000	352.41000	11.57700	-7.13410	110.10000	92.51500
-3.984	3.890	1.79960	2134.50000	371.75000	580.62000	352.39000	11.45800	-7.19780	110.85000	92.89500
-4.005	5.882	1.79960	2133.79999	371.62000	580.55000	352.34000	11.40700	-7.17650	109.89000	93.44800
	GRADIENT	.00000	-.19255	-.03081	.02580	.01677	-.03013	-.02303	.11447	.09334

RUN NO. 138/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.187	-5.798	1.79960	2136.00000	371.99000	580.21000	352.14000	11.80600	-6.86850	107.70000	82.36900
-.152	-3.821	1.79960	2135.20001	371.87000	580.28000	352.18000	11.75900	-6.98950	107.60000	84.17300
-.164	.139	1.79960	2134.50000	371.75000	580.21000	352.14000	11.63600	-7.08750	108.76000	85.76800
-.105	4.239	1.79960	2135.20001	371.87000	580.45000	352.28000	11.55400	-7.18630	110.96000	88.78100
-.092	6.227	1.79960	2134.50000	371.75000	580.35000	352.22000	11.50100	-7.22270	112.67000	89.88800
	GRADIENT	.00000	.00100	.00017	.02131	.01253	-.02540	-.02441	.41756	.57265

IA138 AMES 246-1-97 OTS POWER OFF (S3D016) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 137/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.693	-5.865	1.79960	2134.50000	371.75000	580.28000	352.18000	11.94000	-6.86490	98.38100	62.35500
3.715	-3.882	1.79960	2133.79999	371.62000	580.52000	352.32000	11.89700	-6.94500	100.83000	67.21800
3.665	.044	1.79960	2135.20001	371.87000	580.31000	352.20000	11.78100	-7.06220	102.99000	71.47800
3.669	3.895	1.79960	2135.20001	371.87000	580.14000	352.10000	11.69500	-7.13690	104.71000	75.10200
3.698	5.869	1.79960	2135.20001	371.87000	580.48000	352.30000	11.66900	-7.17270	106.77000	78.06000
	GRADIENT	-.00000	.18058	.03225	-.04887	-.02829	-.02598	-.02495	.49903	1.01391

IA138 AMES 246-1-97 OTS POWER OFF (S3D017) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 176/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.313	-6.156	1.55000	2136.70001	541.16000	583.48000	394.12000	8.28120	-1.93560	113.49000	110.27000
-4.407	-6.184	1.55000	2136.70001	541.16000	583.59000	394.19000	8.18970	-2.04630	113.93000	110.82000
-4.469	-4.139	1.55000	2137.39999	541.34000	583.76000	394.30000	8.09090	-2.11320	114.28000	111.06000
-4.507	.113	1.55000	2136.70001	541.16000	584.27000	394.65000	7.91610	-2.16440	113.76000	111.37000
-4.299	4.277	1.55000	2137.39999	541.34000	584.47000	394.78000	7.77740	-2.19310	113.66000	111.67000
	GRADIENT	.00000	-.00058	-.00015	.08450	.05713	-.03727	-.00950	-.07385	.07249

RUN NO. 175/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.243	-7.780	1.55000	2133.79999	540.44000	580.52000	392.11000	8.28140	-1.80110	112.29000	103.03000
-.216	-5.811	1.55000	2133.10001	540.26000	581.44000	392.74000	8.22300	-1.93860	111.57000	104.65000
-.199	-3.807	1.55000	2137.39999	541.34000	582.05000	393.15000	8.13000	-2.05850	112.19000	105.78000
-.206	.152	1.55000	2137.39999	541.34000	582.32000	393.33000	7.99730	-2.17170	113.18000	106.67000
-.144	4.255	1.55000	2137.39999	541.34000	582.36000	393.36000	7.87120	-2.26050	115.15000	107.46000
	GRADIENT	-.00000	.00000	.00000	.03828	.02594	-.03209	-.01755	.36910	.20830

IA138 AMES 246-1-97 OTS POWER OFF (S3D017) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 174/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.716	-8.192	1.55000	2135.20001	540.80000	576.32000	389.28000	8.31320	-1.68250	103.61000	82.54200
3.794	-6.241	1.55000	2134.50000	540.62000	577.24000	389.90000	8.26250	-1.78730	105.19000	86.63400
3.883	-4.224	1.55000	2135.20001	540.80000	577.82000	390.29000	8.19390	-1.88950	106.67000	89.40300
4.000	-.017	1.55000	2134.50000	540.62000	579.02000	391.10000	8.09100	-2.09540	109.00000	94.96700
3.909	4.161	1.55000	2134.50000	540.62000	580.14000	391.86000	8.01780	-2.19070	111.06000	99.10400
	GRADIENT	-.00000	-.08358	-.02149	.27672	.18726	-.02101	-.03594	.52363	1.15723

IA138 AMES 246-1-97 OTS POWER OFF (S3D018) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 142/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.146	-7.790	1.54950	2137.39999	541.71000	577.62000	390.23000	8.27060	-6.87260	100.69000	90.75200
-4.141	-5.831	1.54950	2138.10001	541.89000	577.86000	390.39000	8.17380	-7.00440	102.79000	92.89500
-4.126	-3.853	1.54950	2135.20001	541.18000	579.12000	391.25000	8.07850	-7.06470	104.02000	94.51800
-4.038	.041	1.54950	2136.70001	541.53000	579.43000	391.45000	7.93180	-7.12820	104.95000	96.17400
-4.035	3.896	1.54950	2135.20001	541.18000	580.28000	392.03000	7.78060	-7.16650	105.91000	98.13900
	GRADIENT	-.00000	.00066	.00015	.14958	.10058	-.03844	-.01314	.24391	.46724

RUN NO. 143/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.243	-7.755	1.54950	2136.70001	541.53000	580.76000	392.35000	8.28690	-6.66230	109.21000	101.24000
-.217	-5.802	1.54950	2136.00000	541.35000	580.88000	392.45000	8.22550	-6.78980	109.48000	102.79000
-.202	-3.799	1.54950	2136.00000	541.35000	581.44000	392.81000	8.13990	-6.95670	110.34000	103.85000
-.202	.155	1.54950	2135.20001	541.18000	581.85000	393.09000	7.99900	-7.11010	111.16000	104.95000
-.139	4.240	1.54950	2135.20001	541.18000	582.56000	393.57000	7.87350	-7.14850	113.04000	106.19000
	GRADIENT	.00000	-.09897	-.02103	.13952	.09467	-.03313	-.02378	.33656	.29116

IA138 AMES 246-1-97 OTS POWER OFF (S3D018) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 144/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.575	-7.826	1.54950	2137.39999	541.71000	584.10000	394.61000	8.32110	-6.48830	114.69000	111.64000
3.619	-5.857	1.54950	2136.70001	541.53000	584.61000	394.95000	8.26600	-6.58160	114.93000	112.09000
3.624	-3.860	1.54950	2138.10001	541.89000	584.98000	395.21000	8.19960	-6.70770	115.20000	112.36000
3.574	.059	1.54950	2136.70001	541.53000	585.18000	395.34000	8.10190	-7.01220	115.13000	112.77000
3.576	3.995	1.54950	2136.70001	541.53000	585.18000	395.34000	8.01960	-7.10990	116.09000	113.15000
	GRADIENT	-.00000	-.18117	-.04659	.02588	.01682	-.02322	-.05196	.11429	.10188

IA138 AMES 246-1-97 OTS POWER OFF (S3D019) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 121/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.068	-5.303	2.19550	2135.20001	201.10000	567.66000	289.03000	3.94310	-2.16150	90.61400	67.00800
-4.058	-3.351	2.19550	2135.20001	201.10000	566.73000	288.55000	3.87010	-2.18370	92.03100	67.84700
-3.976	.545	2.19550	2136.00000	201.17000	566.84000	288.61000	3.75690	-2.23330	91.16700	68.65000
-3.965	4.408	2.19550	2136.00000	201.17000	567.11000	288.75000	3.69820	-2.26680	90.92500	69.52300
-3.985	6.398	2.19550	2135.20001	201.10000	567.28000	288.83000	3.64820	-2.24570	90.19900	70.80500
	GRADIENT	.00000	.10324	.00903	.04894	.02576	-.02242	-.01071	-.14264	.21397

RUN NO. 122/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.184	-5.277	2.19550	2136.00000	201.17000	567.56000	288.97000	4.03540	-2.08190	93.18200	72.03500
-.159	-3.302	2.19550	2135.20001	201.10000	567.49000	288.94000	3.97320	-2.14740	94.31100	73.29100
-.147	.651	2.19550	2136.00000	201.17000	567.42000	288.90000	3.84440	-2.20430	94.72500	73.58400
-.098	4.757	2.19550	2136.00000	201.17000	567.49000	288.94000	3.77020	-2.24940	94.31100	74.28600
-.085	6.745	2.19550	2136.00000	201.17000	567.76000	289.08000	3.73300	-2.24830	94.65600	74.75400
	GRADIENT	-.00000	.09862	.00863	.00011	.00006	-.02514	-.01265	-.00065	.12124

IA138 AMES 246-1-97 OTS POWER OFF (S3D019) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 123/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.698	-5.343	2.19550	2135.20001	201.10000	567.83000	289.11000	4.15170	-2.06730	94.41500	75.62500
3.731	-3.362	2.19550	2135.20001	201.10000	567.97000	289.18000	4.08400	-2.10250	94.65600	75.76400
3.676	.564	2.19550	2136.00000	201.17000	567.69000	289.04000	3.94470	-2.16170	94.65600	75.97300
3.677	4.413	2.19550	2135.20001	201.10000	567.69000	289.04000	3.84140	-2.19320	95.62200	76.25100
3.704	6.383	2.19550	2136.00000	201.17000	567.69000	289.04000	3.83670	-2.19270	96.38100	76.53000
	GRADIENT	.00000	.00068	.00006	-.03613	-.01807	-.03122	-.01168	.12383	.06261

IA138 AMES 246-1-97 OTS POWER OFF (S3D020) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 120/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.020	-6.048	2.49460	2135.20001	126.02000	561.92000	250.34000	3.91720	-2.17300	82.09100	63.30000
-4.011	-4.097	2.49460	2135.20001	126.02000	561.54000	250.17000	3.86720	-2.19770	82.92400	63.65100
-3.931	-.198	2.49460	2135.20001	126.02000	561.41000	250.11000	3.77590	-2.22650	83.06300	63.96600
-3.922	3.665	2.49460	2135.20001	126.02000	561.30000	250.06000	3.70740	-2.23710	82.78500	64.31500
-3.942	5.654	2.49460	2135.20001	126.02000	561.92000	250.34000	3.69450	-2.23200	82.92400	64.59500
	GRADIENT	.00000	-.00000	-.00000	-.03092	-.01417	-.02059	-.00508	-.01783	.08554

RUN NO. 119/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.128	-6.019	2.49460	2135.20001	126.02000	561.34000	250.06000	4.00960	-2.17440	81.95200	59.13100
-.102	-4.042	2.49460	2135.20001	126.02000	560.92000	249.90000	3.85590	-2.19790	83.02800	59.97200
-.105	-.082	2.49460	2136.00000	126.06000	561.48000	250.14000	3.85330	-2.23110	82.88900	60.67300
-.044	4.016	2.49460	2135.20001	126.02000	561.48000	250.14000	3.77760	-2.24670	82.82000	61.30400
-.031	6.002	2.49460	2135.20001	126.02000	561.37000	250.09000	3.75260	-2.23380	82.43800	61.97000
	GRADIENT	-.00000	-.00112	-.00006	.06910	.02961	-.02211	-.00604	-.02576	.16524

IA138 AMES 246-1-97 OTS POWER OFF (S3D020) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 118/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.741	-6.087	2.49460	2136.00000	126.06000	560.82000	249.85000	4.09130	-2.19960	76.87800	48.19600
3.773	-4.104	2.49460	2135.20001	126.02000	560.82000	249.85000	4.05130	-2.21290	78.51200	50.80300
3.721	-.179	2.49460	2136.00000	126.06000	560.72000	249.80000	3.95590	-2.23170	79.45100	52.66800
3.728	3.670	2.49460	2135.20001	126.02000	560.86000	249.86000	3.87040	-2.24180	80.28500	54.95300
3.758	5.641	2.49460	2136.00000	126.06000	561.13000	249.99000	3.84140	-2.23500	81.11900	56.63900
	GRADIENT	-.00000	.00068	.00003	.00504	.00124	-.02327	-.00372	.22812	.53366

IA138 AMES 246-1-97 OTS POWER OFF (S3D021) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 160/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.082	-5.830	1.79960	2135.20001	371.87000	579.56000	351.74000	4.21340	-4.91830	109.45000	88.46900
-4.069	-3.871	1.79960	2135.20001	371.87000	579.50000	351.70000	4.15000	-5.01380	109.00000	86.85000
-3.991	.025	1.79960	2133.79999	371.62000	579.60000	351.76000	3.99700	-5.12280	109.28000	89.12700
-3.984	3.889	1.79960	2134.50000	371.75000	579.50000	351.70000	3.85340	-5.17170	109.52000	89.64600
-4.004	5.882	1.79960	2133.79999	371.62000	579.73000	351.85000	3.78210	-5.18120	108.90000	90.19900
	GRADIENT	-.00000	-.09057	-.01553	.00004	.00002	-.03822	-.02038	.06701	.10252

RUN NO. 159/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.207	-6.227	1.79960	2134.50000	371.75000	578.71000	351.23000	4.24820	-4.83830	106.87000	78.86800
-.214	-4.287	1.79960	2135.20001	371.87000	578.98000	351.39000	4.17950	-4.95460	106.57000	81.64000
-.196	-.254	1.79960	2135.20001	371.87000	579.02000	351.41000	4.04840	-5.07210	107.84000	83.09700
-.175	3.787	1.79960	2135.20001	371.87000	578.74000	351.25000	3.94510	-5.15640	109.45000	84.52000
-.159	5.796	1.79960	2134.50000	371.75000	579.05000	351.43000	3.87920	-5.20220	111.43000	85.90500
	GRADIENT	-.00000	.00000	.00000	-.02974	-.01735	-.02903	-.02623	.35675	.35673

IA138 AMES 246-1-97 OTS POWER OFF (S3D021) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 158/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.628	-5.867	1.79960	2134.50000	371.75000	578.06000	350.83000	4.31820	-4.83190	92.37700	50.76700
3.660	-3.881	1.79960	2134.50000	371.75000	577.93000	350.75000	4.26400	-4.92960	97.62200	59.41100
3.606	.045	1.79960	2134.50000	371.75000	578.27000	350.96000	4.13990	-5.05380	100.58000	65.47000
3.611	3.896	1.79960	2135.20001	371.87000	578.37000	351.02000	4.03660	-5.12090	103.13000	70.22200
3.641	5.870	1.79960	2135.20001	371.87000	578.33000	351.00000	4.01140	-5.15520	105.64000	73.81300
	GRADIENT	.00000	.08971	.01538	.05667	.03478	-.02925	-.02462	.70834	1.39054

IA138 AMES 246-1-97 OTS POWER OFF (S3D022) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 161/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.323	-5.848	2.19550	2136.70001	201.24000	571.36000	290.91000	3.95610	-5.06210	102.61000	87.22300
-4.422	-3.629	2.19550	2135.20001	201.10000	571.70000	291.08000	3.87370	-5.09790	102.37000	86.25300
-4.453	.620	2.19550	2135.20001	201.10000	571.60000	291.03000	3.75210	-5.16960	100.45000	85.42100
-4.246	4.780	2.19550	2136.00000	201.17000	570.81000	290.63000	3.69090	-5.20470	99.24200	84.90100
-4.165	6.794	2.19550	2134.50000	201.04000	571.46000	290.96000	3.64860	-5.18600	97.76000	84.45000
	GRADIENT	-.00000	.09479	.00829	-.10555	-.05337	-.02176	-.01272	-.37227	-.16091

RUN NO. 162/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.195	-5.705	2.19550	2134.50000	201.04000	570.71000	290.58000	4.05060	-5.03010	99.10400	84.03400
-.203	-3.765	2.19550	2136.70001	201.24000	570.16000	290.30000	3.98260	-5.07340	99.24200	83.68700
-.182	.266	2.19550	2135.20001	201.10000	571.36000	290.91000	3.85760	-5.14430	99.24200	83.51400
-.164	4.306	2.19550	2136.70001	201.24000	570.47000	290.46000	3.77520	-5.19660	98.41500	83.27100
-.148	6.315	2.19550	2136.00000	201.17000	570.06000	290.25000	3.74360	-5.19830	98.24300	83.16700
	GRADIENT	-.00000	.00013	.00001	.03832	.01978	-.02570	-.01526	-.10251	-.05155

IA138 AMES 246-1-97 OTS POWER OFF (S3D022) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 163/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.845	-5.693	2.19550	2136.00000	201.17000	570.23000	290.33000	4.16760	-5.00430	97.72600	83.23600
3.942	-3.722	2.19550	2136.00000	201.17000	570.64000	290.54000	4.10500	-5.04800	97.20900	83.02800
4.057	.487	2.19550	2136.70001	201.24000	569.78000	290.11000	3.96170	-5.11690	96.93300	82.82000
3.965	4.671	2.19550	2135.20001	201.10000	570.64000	290.54000	3.84820	-5.15880	97.79500	82.78500
3.930	6.698	2.19550	2136.70001	201.24000	570.09000	290.27000	3.84420	-5.15640	99.00100	82.82000
	GRADIENT	-.00000	-.09505	-.00832	-.00021	-.00010	-.03060	-.01321	.06969	-.02897

IA138 AMES 246-1-97 OTS POWER OFF (S3D023) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 172/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.018	-6.053	2.49460	2135.20001	126.02000	564.40000	251.44000	3.92190	-5.11090	83.96500	67.95200
-4.007	-4.095	2.49460	2136.00000	126.06000	563.57000	251.08000	3.87240	-5.14530	84.76200	68.54600
-3.927	-.198	2.49460	2135.20001	126.02000	563.74000	251.15000	3.77910	-5.18310	84.90100	69.00000
-3.922	3.685	2.49460	2134.50000	125.98000	563.64000	251.11000	3.71230	-5.20190	84.76200	68.45400
-3.945	5.658	2.49460	2135.20001	126.02000	563.68000	251.12000	3.70180	-5.19580	84.83200	68.90700
	GRADIENT	-.00000	-.19330	-.01031	.00907	.00389	-.02063	-.00730	.00005	.11700

RUN NO. 171/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.144	-6.452	2.49460	2135.20001	126.02000	564.19000	251.35000	4.02080	-5.11760	82.23000	67.74300
-.153	-4.509	2.49460	2134.50000	125.98000	563.85000	251.20000	3.97140	-5.14710	84.58900	68.63500
-.136	-.477	2.49460	2135.20001	126.02000	563.57000	251.08000	3.86310	-5.18700	84.45000	63.72100
-.113	3.562	2.49460	2135.20001	126.02000	564.05000	251.29000	3.78530	-5.21170	84.31100	65.08500
-.098	5.571	2.49460	2135.20001	126.02000	563.81000	251.18000	3.75930	-5.19740	84.31100	66.30900
	GRADIENT	.00000	.08672	.00496	.02481	.01116	-.02306	-.00800	-.03445	.30358

IA138 AMES 246-1-97 OTS POWER OFF (S3D023) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 170/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.683	-6.089	2.49460	2134.50000	125.98000	564.43000	251.46000	4.09020	-5.13040	73.56900	43.64500
3.716	-4.103	2.49460	2136.00000	126.06000	564.71000	251.58000	4.05020	-5.15280	76.59900	47.52600
3.662	-.177	2.49460	2136.00000	126.06000	564.09000	251.30000	3.95600	-5.18940	78.40800	50.87300
3.672	3.672	2.49460	2136.00000	126.06000	564.50000	251.49000	3.87140	-5.21270	79.69400	54.00400
3.703	5.644	2.49460	2135.20001	126.02000	563.95000	251.24000	3.84240	-5.20400	80.98000	57.06000
	GRADIENT	.00000	.00001	.00000	-.02744	-.01177	-.02300	-.00771	.39829	.83328

IA138 AMES 246-1-97 OTS POWER OFF (S3D024) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 199/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.072	-5.311	2.19550	2136.00000	201.17000	564.29000	287.31000	3.94610	-7.00000	89.36900	69.66300
-4.059	-3.353	2.19550	2135.20001	201.10000	564.84000	287.59000	3.86900	-7.00000	90.96000	70.43100
-3.976	.546	2.19550	2135.20001	201.10000	564.84000	287.59000	3.75520	-7.00000	90.09500	70.95400
-3.970	4.412	2.19550	2136.00000	201.17000	564.71000	287.52000	3.69450	-7.00000	89.61100	71.47800
-3.988	6.402	2.19550	2136.00000	201.17000	564.53000	287.44000	3.65060	-7.00000	89.78400	72.21000
	GRADIENT	.00000	.10289	.00900	-.01672	-.00900	-.02248	.00000	-.17381	.13485

RUN NO. 198/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.192	-5.710	2.19550	2136.70001	201.24000	562.89000	286.60000	4.05180	-7.00000	86.42600	62.18000
-.199	-3.770	2.19550	2135.20001	201.10000	562.99000	286.65000	3.98200	-7.00000	87.95000	63.93100
-.184	.264	2.19550	2136.00000	201.17000	564.26000	287.30000	3.85510	-7.00000	89.16100	65.36500
-.159	4.305	2.19550	2136.00000	201.17000	563.88000	287.10000	3.77350	-7.00000	88.91900	66.65900
-.144	6.315	2.19550	2136.00000	201.17000	563.85000	287.09000	3.74340	-7.00000	89.26500	67.84700
	GRADIENT	-.00000	.09904	.00867	.11016	.05570	-.02582	.00000	.11995	.33785

IA138 AMES 246-1-97 OTS POWER OFF (S3D024) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 197/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.648	-5.348	2.19550	2134.50000	201.04000	561.61000	285.95000	4.14670	-7.00000	76.56400	45.37500
3.678	-3.362	2.19550	2137.39999	201.30000	561.54000	285.91000	4.08030	-7.00000	79.55500	49.39400
3.624	.565	2.19550	2138.10001	201.37000	562.20000	286.24000	3.94470	-7.00000	81.74400	52.87900
3.630	4.415	2.19550	2133.10001	200.90000	562.06000	286.18000	3.84320	-7.00000	83.47900	55.90100
3.659	6.390	2.19550	2135.20001	201.10000	562.68000	286.49000	3.83600	-7.00000	85.73300	58.39400
	GRADIENT	.00000	-.55048	-.05120	.06720	.03488	-.03050	.00000	.50475	.83688

IA138 AMES 246-1-97 OTS POWER OFF (S3D025) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 108/ 0 RN/L = 2.87 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.013	-6.047	2.49400	2128.20001	125.73000	553.27000	246.56000	3.91220	1.75930	72.76800	75.55500
-4.004	-4.093	2.49400	2128.20001	125.73000	554.65000	247.17000	3.86170	1.75270	73.70800	75.13700
-3.927	-.197	2.49400	2128.20001	125.73000	555.27000	247.45000	3.77070	1.72850	74.30100	74.71900
-3.918	3.661	2.49400	2128.89999	125.77000	556.17000	247.85000	3.69630	1.72590	74.85800	74.54500
-3.939	5.654	2.49400	2128.89999	125.77000	556.72000	248.09000	3.68640	1.73520	75.62500	74.61500
	GRADIENT	-.00000	.09012	.00515	.19596	.08767	-.02133	-.00346	.14818	-.07640

RUN NO. 109/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.136	-6.015	2.49400	2128.89999	125.77000	557.89000	248.62000	4.00290	1.83790	78.13000	75.31100
-.102	-.092	2.49400	2128.20001	125.73000	559.17000	249.18000	3.85040	1.77380	79.46100	75.83300
-.050	4.012	2.49400	2128.89999	125.77000	559.86000	249.49000	3.77130	1.75220	80.07700	76.00800
-.037	6.000	2.49400	2128.20001	125.73000	560.41000	249.74000	3.74680	1.76330	80.32000	76.46000
	GRADIENT	.00000	.17056	.00975	.16812	.07553	-.01927	-.00526	.15253	.04264

IA138 AMES 246-1-97 OTS POWER OFF (S3D025) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 110/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.737	-6.082	2.49400	2128.20001	125.73000	560.72000	249.87000	4.08850	1.86370	81.46600	77.71300
3.772	-4.100	2.49400	2128.20001	125.73000	560.82000	249.92000	4.04950	1.83920	81.81300	78.44300
3.721	-.178	2.49400	2128.20001	125.73000	561.27000	250.12000	3.95320	1.81320	82.16000	78.89500
3.727	3.664	2.49400	2128.20001	125.73000	561.54000	250.24000	3.86440	1.78430	82.68100	79.27700
3.759	5.636	2.49400	2127.50000	125.68000	561.72000	250.32000	3.83840	1.79110	83.06300	79.79900
	GRADIENT	.00000	.00001	.00000	.09281	.04125	-.02384	-.00707	.11171	.10744

IA138 AMES 246-1-97 OTS POWER OFF (S3D026) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 209/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.349	-5.652	2.19550	2138.10001	201.37000	559.48000	284.66000	.11990	-2.15610	82.95900	69.62800
-4.439	-3.628	2.19550	2133.79999	200.97000	559.69000	284.97000	.02900	-2.17430	84.06900	70.71000
-4.474	.618	2.19550	2136.70001	201.24000	559.51000	284.88000	-.11500	-2.23160	83.58300	71.82600
-4.262	4.780	2.19550	2138.79999	201.44000	560.65000	285.46000	-.19290	-2.25980	83.58300	73.04700
-4.184	6.792	2.19550	2136.70001	201.24000	561.06000	285.67000	-.23560	-2.23380	83.06300	74.26600
	GRADIENT	.00000	.59496	.05592	.11364	.05801	-.02642	-.01018	-.05799	.27789

RUN NO. 210/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.175	-5.274	2.19550	2136.00000	201.17000	562.16000	286.23000	.18140	-2.05760	86.59900	76.91200
-.148	-3.299	2.19550	2136.00000	201.17000	562.47000	286.39000	.11620	-2.11370	88.01900	78.13000
-.153	.658	2.19550	2136.70001	201.24000	562.99000	286.65000	-.01790	-2.17490	88.71100	79.17300
-.092	4.757	2.19550	2136.00000	201.17000	562.85000	286.58000	-.10990	-2.22510	88.98800	80.21500
-.079	6.743	2.19550	2136.00000	201.17000	563.26000	286.79000	-.15220	-2.22700	89.43800	81.32700
	GRADIENT	.00000	-.00103	-.00010	.04668	.02334	-.02803	-.01382	.11996	.25877

IA138 AMES 246-1-97 OTS POWER OFF (S3D026) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 211/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.838	-5.692	2.19550	2135.20001	201.10000	564.50000	287.42000	.29000	-2.02370	90.19900	83.72200
3.930	-3.713	2.19550	2136.00000	201.17000	564.19000	287.26000	.22690	-2.06660	90.47600	84.83200
4.049	.487	2.19550	2136.00000	201.17000	564.67000	287.51000	.07780	-2.12340	90.85600	86.52500
3.961	4.663	2.19550	2135.20001	201.10000	564.95000	287.65000	-.03890	-2.16450	91.96200	86.21800
3.927	6.690	2.19550	2136.70001	201.24000	565.53000	287.94000	-.05040	-2.16400	93.27500	86.84200
	GRADIENT	-.00000	-.09542	-.00835	.09076	.04657	-.03174	-.01169	.17733	.16547

IA138 AMES 246-1-97 OTS POWER OFF (S3D027) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 222/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.016	-6.048	2.49460	2136.00000	126.06000	563.74000	251.15000	.04510	-2.09830	83.34000	64.49000
-4.005	-4.094	2.49460	2136.00000	126.06000	563.71000	251.14000	-.01350	-2.13100	84.34600	65.15500
-3.928	-.197	2.49460	2136.00000	126.06000	564.09000	251.30000	-.12050	-2.16520	84.72800	65.75000
-3.923	3.665	2.49460	2135.20001	126.02000	564.74000	251.60000	-.19770	-2.18010	84.58900	66.37900
-3.944	5.657	2.49460	2135.20001	126.02000	563.95000	251.24000	-.20470	-2.17480	84.72800	66.83400
	GRADIENT	.00000	-.10296	-.00515	.13271	.05927	-.02375	-.00633	.03142	.15776

RUN NO. 221/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.146	-6.445	2.49460	2136.00000	126.06000	563.47000	251.03000	.13060	-2.11170	82.40300	56.07800
-.152	-4.506	2.49460	2136.00000	126.06000	563.40000	251.00000	.07700	-2.13690	83.93000	59.30500
-.136	-.477	2.49460	2135.20001	126.02000	563.74000	251.15000	-.04350	-2.16990	83.96500	60.74300
-.115	3.562	2.49460	2135.20001	126.02000	564.43000	251.46000	-.13460	-2.19160	83.82600	61.93500
-.099	5.571	2.49460	2136.00000	126.06000	563.54000	251.06000	-.16260	-2.18100	83.96100	62.99500
	GRADIENT	-.00000	-.09511	-.00496	.12768	.05702	-.02623	-.00679	-.01290	.32584

IA138 AMES 246-1-97 OTS POWER OFF (S3D027) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 220/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.685	-6.086	2.49460	2137.39999	126.14000	562.37000	250.54000	.18210	-2.13510	75.55500	44.06900
3.717	-4.101	2.49460	2138.10001	126.19000	563.23000	250.92000	.13930	-2.15460	77.60800	46.89200
3.666	-.177	2.49460	2136.00000	126.06000	563.09000	250.86000	.03780	-2.17890	78.82500	49.67600
3.674	3.670	2.49460	2136.00000	126.06000	563.06000	250.85000	-.05530	-2.19970	79.86800	52.31600
3.705	5.645	2.49460	2136.00000	126.06000	563.37000	250.98000	-.09680	-2.19290	80.49300	54.42600
	GRADIENT	.00000	-.27110	-.01678	-.02192	-.00903	-.02504	-.00580	.29088	.69799

IA138 AMES 246-1-97 OTS POWER OFF (S3D028) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 181/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.326	-5.652	2.19500	2138.10001	201.53000	551.72000	280.97000	.11980	-5.19000	75.72900	71.33800
-4.424	-3.636	2.19500	2133.79999	201.13000	553.20000	281.73000	.03280	-5.20580	77.74700	71.61700
-4.563	.400	2.19500	2136.00000	201.33000	554.03000	282.15000	-.10040	-5.26210	78.33900	71.65200
-4.245	4.785	2.19500	2137.39999	201.46000	554.24000	282.26000	-.19370	-5.30120	77.99100	72.00100
-4.171	6.799	2.19500	2136.70001	201.39000	554.72000	282.50000	-.23850	-5.28180	77.85200	72.62800
	GRADIENT	-.00000	.42598	.03905	.12243	.06240	-.02682	-.01130	.02742	.04609

RUN NO. 182/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.173	-5.279	2.19500	2138.10001	201.53000	556.07000	283.19000	.18260	-5.08400	80.35400	74.23100
-.145	-3.302	2.19500	2137.39999	201.46000	557.48000	283.91000	.11610	-5.14530	82.23000	75.13700
-.152	.663	2.19500	2136.00000	201.33000	558.10000	284.22000	-.01930	-5.21220	83.41000	75.90300
-.091	4.760	2.19500	2132.39999	200.99000	558.14000	284.24000	-.11160	-5.26140	83.68700	76.59900
-.078	6.751	2.19500	2136.00000	201.33000	558.93000	284.64000	-.15050	-5.26520	84.13800	77.39900
	GRADIENT	.00000	-.62167	-.05844	.08147	.04073	-.02821	-.01439	.18010	.18129

IA138 AMES 246-1-97 OTS POWER OFF (S3D028) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-5.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 183/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.838	-5.693	2.19500	2137.39899	201.46000	559.69000	285.03000	.29090	-5.04920	85.07400	79.34700
3.931	-3.714	2.19500	2136.70001	201.39000	560.58000	285.49000	.22590	-5.09730	85.52500	80.52800
4.049	.489	2.19500	2136.70001	201.39000	560.10000	285.24000	.07870	-5.15810	85.66400	81.01400
3.962	4.668	2.19500	2136.70001	201.39000	560.79000	285.59000	-.04180	-5.20380	86.66800	81.67400
3.928	6.697	2.19500	2136.70001	201.39000	560.92000	285.66000	-.05140	-5.19800	88.64200	82.29900
	GRADIENT	.00000	.00000	-.00000	.02492	.01186	-.03194	-.01272	.13627	.13671

IA138 AMES 246-1-97 OTS POWER OFF (S3D029) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-5.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 192/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.018	-6.049	2.49460	2135.20001	126.02000	563.57000	251.08000	.04030	-5.11870	83.23600	65.71500
-4.008	-4.094	2.49460	2136.00000	126.06000	563.61000	251.09000	-.01620	-5.15010	84.13800	68.34400
-3.929	-.194	2.49460	2135.20001	126.02000	564.29000	251.40000	-.12440	-5.18240	84.38100	66.90300
-3.928	3.668	2.49460	2136.00000	126.06000	563.33000	250.97000	-.20320	-5.19840	84.27700	67.39300
-3.945	5.662	2.49460	2135.20001	126.02000	563.74000	251.15000	-.21200	-5.19100	84.31100	67.88200
	GRADIENT	.00000	-.00033	-.00002	-.03573	-.01531	-.02410	-.00623	.01798	.13516

RUN NO. 191/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.146	-6.447	2.49460	2136.00000	126.06000	563.13000	250.88000	.12850	-5.12420	81.95200	58.44500
-.152	-4.509	2.49460	2136.00000	126.06000	563.16000	250.89000	.07500	-5.15070	83.68700	60.91900
-.135	-.477	2.49460	2136.00000	126.06000	562.95000	250.80000	-.04630	-5.19150	83.72200	62.07500
-.114	3.567	2.49460	2135.20001	126.02000	563.54000	251.06000	-.14040	-5.21280	83.54800	63.26500
-.098	5.575	2.49460	2135.20001	126.02000	563.61000	251.09000	-.16870	-5.20300	83.37500	64.14100
	GRADIENT	.00000	-.09910	-.00496	.04710	.02107	-.02667	-.00789	-.01722	.29050

IA138 AMES 246-1-97 OTS POWER OFF (S3D029) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 190/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.688	-6.087	2.49460	2132.39999	125.85000	562.54000	250.62000	.18080	-5.14370	75.55500	44.66900
3.720	-4.102	2.49460	2136.00000	126.06000	562.16000	250.45000	.13790	-5.16370	77.50400	47.84400
3.669	-.174	2.49460	2135.20001	126.02000	562.54000	250.62000	.03520	-5.19890	78.86000	50.76700
3.675	3.674	2.49460	2136.00000	126.06000	562.47000	250.59000	-.05820	-5.21850	79.79900	53.40600
3.705	5.649	2.49460	2136.00000	126.06000	562.95000	250.80000	-.09050	-5.20850	80.70200	56.21700
	GRADIENT	.00000	-.00070	-.00004	.04006	.01809	-.02522	-.00705	.29529	.71532

IA138 AMES 246-1-97 OTS POWER OFF (S3D030) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 201/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.284	-6.392	2.49460	2116.20001	124.89000	546.63000	243.53000	.04650	1.74470	71.19900	70.57000
-4.387	-4.373	2.49460	2136.70001	126.10000	548.78000	244.48000	-.01630	1.73520	71.93100	69.97700
-4.418	-.124	2.49460	2141.60001	126.40000	549.23000	244.68000	-.14320	1.71290	72.00100	69.52300
-4.218	4.035	2.49460	2137.39999	126.14000	550.23000	245.13000	-.21090	1.70310	72.21000	69.24400
-4.143	6.050	2.49460	2138.10001	126.19000	550.65000	245.32000	-.23040	1.70970	72.31500	69.55800
	GRADIENT	-.00000	.08711	.00499	.17221	.07720	-.02317	-.00382	.03312	-.08725

RUN NO. 202/ 0 RN/L = 2.88 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.148	-6.442	2.49460	2128.89999	125.64000	553.72000	246.69000	.12690	1.79500	77.29500	70.57000
-.155	-4.504	2.49460	2129.60001	125.69000	553.79000	246.72000	.07190	1.78610	77.64300	70.46600
-.136	-.474	2.49460	2128.89999	125.64000	554.48000	247.02000	-.04790	1.75880	77.57300	70.39600
-.115	3.562	2.49460	2133.10001	125.89000	555.58000	247.52000	-.14280	1.73650	77.64300	70.67500
-.099	5.570	2.49460	2133.79999	125.94000	556.03000	247.72000	-.17330	1.75240	77.81700	71.12900
	GRADIENT	- 00000	.43409	.02481	.22194	.09919	-.02662	-.00615	.00000	.02592

IA138 AMES 246-1-97 OTS POWER OFF (S3D030) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 203/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.883	-6.437	2.49460	2133.79999	125.94000	556.93000	248.12000	.19260	1.83910	78.89500	73.25600
3.980	-4.459	2.49460	2133.79999	125.94000	558.14000	248.65000	.15280	1.81900	80.04200	74.89300
4.100	-.254	2.49460	2134.50000	125.98000	557.96000	248.58000	.04780	1.79840	80.49300	75.27600
4.013	3.922	2.49460	2134.50000	125.98000	558.17000	248.67000	-.05440	1.77090	81.25800	75.62500
3.980	5.947	2.49460	2134.50000	125.98000	558.31000	248.73000	-.08860	1.77860	82.68100	76.18200
	GRADIENT	.00000	.08362	.00478	.00353	.00236	-.02472	-.00574	.14504	.08734

IA138 AMES 246-1-97 OTS POWER ON (S3D031) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.262 SSMEPR = 372.504
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 35/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.131	-7.818	1.55000	2136.70001	541.16000	586.75000	396.32000	10.11800	-1.79140	92.30800	40.00500
-4.125	-5.845	1.55000	2136.70001	541.16000	586.51000	396.16000	10.03600	-1.92610	92.68800	39.82800
-4.110	-3.862	1.55000	2137.39999	541.34000	586.68000	396.28000	9.95590	-2.01580	92.72200	39.54500
-4.025	.036	1.55000	2137.39999	541.34000	587.02000	396.51000	9.81630	-2.07950	92.27300	39.33300
-4.026	3.902	1.55000	2138.10001	541.52000	587.12000	396.58000	9.69650	-2.10270	91.58200	39.26200
	GRADIENT	.00000	.09004	.02315	.05672	.03867	-.03342	-.01120	-.14679	-.03648

RUN NO. 36/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.293	-7.785	1.55000	2136.70001	541.16000	587.12000	396.58000	10.12600	-1.81050	92.13500	38.62500
-.269	-5.815	1.55000	2136.00000	540.98000	587.60000	396.90000	10.07500	-1.75360	91.65100	38.38800
-.253	-3.810	1.55000	2137.39999	541.34000	587.36000	396.74000	10.01000	-1.91870	91.99700	38.44900
-.193	.148	1.55000	2136.70001	541.16000	587.50000	396.83000	9.89590	-2.04700	93.06800	37.99800
-.193	4.252	1.55000	2137.39999	541.34000	587.36000	396.74000	9.77660	-2.08570	94.27600	37.84600
	GRADIENT	-.00000	.00105	.00027	-.00021	-.00014	-.02895	-.02065	.28278	-.07443

IA138 AMES 246-1-97 OTS POWER ON (S3D031) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.262 SSMEPR = 372.504
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 37/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.631	-7.857	1.55000	2138.10001	541.52000	587.67000	396.94000	10.10900	-1.46720	92.89500	37.13800
3.672	-5.874	1.55000	2137.39999	541.34000	587.57000	396.87000	10.07100	-1.58260	92.93000	36.85500
3.677	-3.873	1.55000	2138.10001	541.52000	587.63000	396.92000	10.02000	-1.71190	92.79200	36.81900
3.622	.054	1.55000	2138.10001	541.52000	587.80000	397.03000	9.95310	-1.97450	91.92800	37.10200
3.631	3.904	1.55000	2138.10001	541.52000	587.50000	396.83000	9.89400	-2.07020	92.20400	37.06700
	GRADIENT	-.00000	.00000	-.00000	-.01652	-.01144	-.01621	-.04614	-.07609	.03202

IA138 AMES 246-1-97 OTS POWER ON (S3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 38/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.084	-5.827	1.79960	2136.00000	371.99000	580.65000	352.41000	9.85070	-1.96710	88.26100	35.61500
-4.071	-3.876	1.79960	2136.70001	372.11000	580.69000	352.43000	9.79910	-2.02990	88.33100	35.72100
-3.988	.021	1.79960	2135.20001	371.87000	580.79000	352.49000	9.68570	-2.14240	89.23000	35.79200
-3.984	3.885	1.79960	2136.00000	371.99000	580.18000	352.12000	9.56120	-2.19750	89.74900	35.79200
-4.007	5.882	1.79960	2135.20001	371.87000	579.97000	351.99000	9.49710	-2.18070	87.84600	35.79200
	GRADIENT	-.00000	-.09061	-.01553	-.06558	-.03986	-.03065	-.02160	.18277	.00916

RUN NO. 39/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.221	-5.834	1.79960	2135.20001	371.87000	579.43000	351.66000	9.88550	-1.92770	86.59900	35.79200
-.205	-3.826	1.79960	2135.20001	371.87000	579.80000	351.89000	9.84030	-2.01250	86.80700	35.86300
-.155	.133	1.79960	2135.20001	371.87000	579.63000	351.79000	9.73340	-2.09090	87.50000	35.82700
-.142	4.238	1.79960	2135.20001	371.87000	579.50000	351.70000	9.65350	-2.19110	88.91900	36.04000
-.133	6.226	1.79960	2134.50000	371.75000	579.26000	351.56000	9.59290	-2.22130	89.92200	36.14600
	GRADIENT	.00000	.00000	.00000	-.03717	-.02355	-.02314	-.02216	.26243	.02213

IA138 AMES 246-1-97 OTS POWER ON (S3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 40/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.693	-5.874	1.79960	2136.00000	371.99000	578.85000	351.31000	9.94950	-1.84460	87.22300	36.14600
3.721	-3.889	1.79960	2136.00000	371.99000	579.09000	351.45000	9.91480	-1.93550	86.94600	36.04000
3.665	.041	1.79960	2136.00000	371.99000	579.02000	351.41000	9.82410	-2.06590	86.32200	36.28800
3.671	3.888	1.79960	2135.20001	371.87000	578.74000	351.25000	9.75600	-2.13540	86.59900	36.42900
3.702	5.867	1.79960	2135.20001	371.87000	578.57000	351.14000	9.73630	-2.16020	87.22300	36.64200
	GRADIENT	.00000	-.10250	-.01538	-.04491	-.02566	-.02043	-.02573	-.04502	.05007

IA138 AMES 246-1-97 OTS POWER ON (S3D033) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.703 SSMEPR = 745.648
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 44/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.077	-5.338	2.19500	2133.79999	201.13000	569.82000	290.19000	9.71130	-2.09370	80.21500	34.62200
-4.060	-3.357	2.19500	2133.10001	201.06000	569.44000	290.00000	9.66310	-2.12830	80.11100	34.48000
-3.964	.543	2.19500	2133.79999	201.13000	569.41000	289.98000	9.56320	-2.19190	77.50400	34.69300
-3.958	4.405	2.19500	2132.39999	200.99000	569.61000	290.09000	9.50660	-2.21760	76.00800	35.18900
-3.988	6.400	2.19500	2133.79999	201.13000	569.06000	289.81000	9.45110	-2.18500	74.75400	36.50000
	GRADIENT	-.00000	-.08974	-.00897	.02185	.01157	-.02017	-.01161	-.52884	.09128

RUN NO. 45/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.175	-5.318	2.19500	2133.79999	201.13000	569.03000	289.79000	9.79560	-2.05090	75.76400	36.78400
-.158	-3.307	2.19500	2133.10001	201.06000	569.10000	289.82000	9.76710	-2.10170	76.91200	36.92500
-.150	.659	2.19500	2133.10001	201.06000	568.62000	289.58000	9.66330	-2.17540	77.39900	37.10200
-.094	4.756	2.19500	2133.79999	201.13000	568.79000	289.67000	9.60150	-2.22210	77.39900	37.17300
-.081	6.745	2.19500	2133.79999	201.13000	568.69000	289.61000	9.57090	-2.21420	76.98200	37.10200
	GRADIENT	.00000	.08728	.00873	-.03801	-.01838	-.02051	-.01491	.06007	.03068

IA139 AMES 246-1-97 OTS POWER ON (S3D033) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.703 SSMEPR = 745.648
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 46/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.728	-5.371	2.19500	2133.79999	201.13000	568.49000	289.51000	9.91520	-2.06520	76.87800	37.03200
3.733	-3.368	2.19500	2133.79999	201.13000	568.14000	289.33000	9.87210	-2.10380	76.59900	36.96100
3.684	.562	2.19500	2133.79999	201.13000	568.14000	289.33000	9.77700	-2.15520	76.70400	37.03200
3.683	4.406	2.19500	2133.79999	201.13000	567.69000	289.11000	9.68870	-2.19040	76.77300	36.96100
3.713	6.386	2.19500	2134.50000	201.19000	567.62000	289.07000	9.68340	-2.17520	77.57300	36.96100
	GRADIENT	.00000	.00000	-.00000	-.05767	-.02819	-.02359	-.01115	.02240	.00007

IA139 AMES 246-1-97 OTS POWER ON (S3D034) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 750.050 SSMEPR = 1331.316
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 55/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.030	-8.056	2.49460	2135.20001	126.02000	562.27000	250.49000	9.76800	-2.12410	69.24400	39.36800
-4.025	-6.084	2.49460	2135.20001	126.02000	562.44000	250.57000	9.74390	-2.15770	69.69800	39.12000
-4.011	-4.103	2.49460	2135.20001	126.02000	561.92000	250.34000	9.70750	-2.17630	69.87200	39.12000
-3.927	-.202	2.49460	2135.20001	126.02000	562.37000	250.54000	9.63150	-2.20620	69.73300	39.26200
-3.926	3.663	2.49460	2135.20001	126.02000	562.27000	250.49000	9.55060	-2.21510	68.89500	39.15600
-3.946	5.659	2.49460	2135.20001	126.02000	561.99000	250.37000	9.53990	-2.20080	68.33600	39.19100
	GRADIENT	.00000	-.00000	.00000	.04517	.01936	-.02020	-.00500	-.12566	.00468

RUN NO. 54/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.129	-6.060	2.49460	2135.20001	126.02000	562.09000	250.42000	9.83880	-2.14240	70.71000	39.22600
-.113	-4.051	2.49460	2135.20001	126.02000	562.68000	250.68000	9.80300	-2.16740	70.71000	39.33300
-.105	-.080	2.49460	2135.20001	126.02000	562.40000	250.55000	9.72900	-2.20290	70.81500	39.40300
-.049	4.016	2.49460	2135.20001	126.02000	562.20000	250.46000	9.65400	-2.21610	70.25600	39.40300
-.036	6.006	2.49460	2135.20001	126.02000	561.85000	250.31000	9.62850	-2.19910	69.41900	39.29700
	GRADIENT	-.00000	.00000	-.00000	-.05945	-.02724	-.01847	-.00602	-.05670	.00863

IA138 AMES 246-1-97 OTS POWER ON (S3D034) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 750.050 SSMEPR = 1331.316
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 53/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.775	-4.111	2.49460	2134.50000	125.98000	562.64000	250.66000	9.89830	-2.15170	71.09400	36.50000
3.727	-.182	2.49460	2135.20001	126.02000	562.58000	250.63000	9.84020	-2.17950	70.32600	37.56300
3.734	3.664	2.49460	2135.20001	126.02000	562.40000	250.55000	9.75210	-2.19960	70.36100	38.51900
3.763	5.642	2.49460	2135.20001	126.02000	562.33000	250.52000	9.73050	-2.19750	70.50100	38.90800
	GRADIENT	.00000	.09036	.00516	-.03081	-.01413	-.01879	-.00616	-.09465	.25974

IA138 AMES 246-1-97 OTS POWER ON (S3D035) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.113 SSMEPR = 481.102
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 53/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.327	-6.181	1.79960	2140.89999	372.85000	575.77000	349.44000	9.82430	-4.86810	84.62400	37.28000
-4.429	-4.164	1.79960	2140.89999	372.85000	576.63000	349.96000	9.76230	-5.00030	85.94100	37.06700
-4.467	.093	1.79960	2140.89999	372.85000	576.18000	349.69000	9.63590	-5.12550	85.87100	36.96100
-4.260	4.259	1.79960	2140.89999	372.85000	576.70000	350.00000	9.49230	-5.17300	85.07400	36.92500
-4.183	6.273	1.79960	2141.60001	372.98000	576.12000	349.65000	9.43260	-5.15170	83.27100	36.89000
	GRADIENT	-.00000	-.00000	.00000	.00790	.00450	-.03205	-.02053	-.10262	-.01889

RUN NO. 62/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.185	-5.799	1.79960	2140.20001	372.73000	574.78000	348.84000	9.85390	-4.84010	84.27700	37.66900
-.159	-3.829	1.79960	2140.20001	372.73000	575.09000	349.03000	9.80490	-4.97610	84.10300	37.63400
-.164	.136	1.79960	2140.89999	372.85000	575.09000	349.03000	9.69080	-5.07290	85.31700	37.59800
-.104	4.238	1.79960	2140.89999	372.85000	575.67000	349.38000	9.50900	-5.16550	86.84200	37.52700
-.090	6.227	1.79960	2140.89999	372.85000	575.60000	349.34000	9.54970	-5.19710	87.81100	37.52700
	GRADIENT	-.00000	.08627	.01479	.07230	.04363	-.02426	-.02347	.33973	-.01329

IA138 AMES 246-1-97 OTS POWER ON (S3D035) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.113 SSMEPR = 481.102
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 61/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.889	-6.218	1.79960	2140.20001	372.73000	573.14000	347.85000	9.93310	-4.82350	82.16000	35.01200
3.983	-4.243	1.79960	2141.60001	372.98000	573.89000	348.30000	9.88900	-4.91280	82.61200	36.11100
4.100	-.036	1.79960	2140.89999	372.85000	574.13000	348.45000	9.80000	-5.05080	82.61200	36.71300
4.015	4.142	1.79960	2140.89999	372.85000	574.20000	348.49000	9.71810	-5.12890	82.75000	37.13800
3.983	6.173	1.79960	2140.89999	372.85000	574.68000	348.78000	9.69900	-5.14930	84.62400	37.49200
	GRADIENT	-.00000	-.08359	-.01552	.03699	.02268	-.02038	-.02578	.01644	.12251

IA138 AMES 246-1-97 OTS POWER ON (S3D036) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.854 SSMEPR = 744.415
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 64/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.317	-5.659	2.19500	2139.50000	201.66000	568.96000	289.75000	9.66490	-5.04610	81.98700	34.09000
-4.417	-3.638	2.19500	2138.10001	201.53000	569.17000	289.86000	9.62690	-5.09420	82.05600	33.73600
-4.453	.615	2.19500	2138.10001	201.53000	569.61000	290.09000	9.50950	-5.16940	80.14600	33.62900
-4.243	4.780	2.19500	2138.79999	201.59000	568.58000	289.56000	9.45090	-5.20630	78.47800	33.59400
-4.168	6.796	2.19500	2138.79999	201.59000	568.24000	289.39000	9.40840	-5.18950	76.04200	33.45200
	GRADIENT	.00000	.08285	.00710	-.06947	-.03532	-.02093	-.01333	-.42508	-.01690

RUN NO. 65/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.198	-5.281	2.19500	2138.79999	201.59000	567.86000	289.20000	9.76830	-5.02320	77.33000	33.16800
-.162	-3.307	2.19500	2138.10001	201.53000	568.21000	289.37000	9.73920	-5.08460	77.95600	33.02600
-.149	.652	2.19500	2139.50000	201.66000	568.10000	289.32000	9.62670	-5.15640	77.88600	33.06200
-.098	4.760	2.19500	2138.10001	201.53000	568.34000	289.44000	9.56050	-5.19440	77.05200	33.06200
-.085	6.750	2.19500	2138.79999	201.59000	567.76000	289.14000	9.53160	-5.19240	75.93800	33.02600
	GRADIENT	-.00000	-.00214	-.00020	.01638	.00881	-.02211	-.01358	-.11263	.00443

IA138 AMES 246-1-97 OTS POWER ON (S3D036) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.854 SSMEPR = 744.415
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 66/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.901	-5.694	2.19500	2138.79999	201.59000	567.86000	289.20000	9.89800	-5.00390	75.86800	32.81300
3.995	-3.720	2.19500	2138.79999	201.59000	567.56000	289.04000	9.85420	-5.06190	75.76400	32.63600
4.111	.486	2.19500	2138.10001	201.53000	567.49000	289.00000	9.76280	-5.13310	76.04200	32.70700
4.020	4.664	2.19500	2138.79999	201.59000	568.21000	289.37000	9.66150	-5.17420	76.94700	32.81300
3.988	6.696	2.19500	2138.79999	201.59000	567.49000	289.00000	9.65720	-5.16300	77.74700	32.84900
	GRADIENT	.00000	-.00019	-.00002	.07743	.03931	-.02299	-.01340	.14103	.02111

IA138 AMES 246-1-97 OTS POWER ON (S3D037) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 747.175 SSMEPR = 1328.316
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 75/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.018	-6.051	2.49460	2140.20001	126.31000	561.44000	250.13000	9.70670	-5.10940	66.72900	34.30300
-4.008	-4.099	2.49460	2140.20001	126.31000	561.75000	250.26000	9.67130	-5.14470	66.79900	34.19700
-3.928	-.199	2.49460	2140.20001	126.31000	561.51000	250.16000	9.59470	-5.18600	66.97300	34.09000
-3.924	3.663	2.49460	2140.20001	126.31000	562.47000	250.59000	9.51610	-5.20530	66.86900	34.16100
-3.946	5.659	2.49460	2140.20001	126.31000	561.89000	250.32000	9.50260	-5.19460	66.55400	34.16100
	GRADIENT	-.00000	.00000	-.00000	.09251	.04240	-.01999	-.00781	.00906	-.00467

RUN NO. 74/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.145	-6.448	2.49460	2140.20001	126.31000	562.61000	250.65000	9.81580	-5.12050	68.79000	33.84200
-.152	-4.511	2.49460	2139.50000	126.27000	561.78000	250.28000	9.78010	-5.14640	68.13900	33.98400
-.133	-.481	2.49460	2140.20001	126.31000	561.85000	250.31000	9.70000	-5.18600	68.89500	34.12600
-.114	3.558	2.49460	2140.20001	126.31000	561.75000	250.26000	9.62180	-5.18900	68.09200	34.37400
-.099	5.571	2.49460	2139.50000	126.27000	561.78000	250.28000	9.59100	-5.19220	67.56700	34.37400
	GRADIENT	-.00000	.08672	.00496	-.00372	-.00248	-.01962	-.00528	-.12977	.04634

IA138 AMES 246-1-97 OTS POWER ON (S30037) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 747.175 SSMEPR = 1328.316
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 73/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.745	-6.091	2.49460	2140.20001	126.31000	561.99000	250.37000	9.88880	-5.11460	69.41900	31.32200
3.776	-4.108	2.49460	2140.20001	126.31000	561.78000	250.28000	9.86550	-5.13840	68.96500	31.46400
3.726	-.180	2.49460	2140.20001	126.31000	561.58000	250.19000	9.80780	-5.17180	68.68500	31.89000
3.733	3.670	2.49460	2140.20001	126.31000	561.75000	250.26000	9.72090	-5.19240	68.79000	32.42300
3.763	5.647	2.49460	2139.50000	126.27000	561.96000	250.36000	9.69560	-5.19620	68.96500	32.99100
	GRADIENT	.00000	.00000	-.00000	-.00401	-.00264	-.01858	-.00695	-.02266	.12325

IA138 AMES 246-1-97 OTS POWER ON (S30038) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 195.714 SSMEPR = 372.069
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 82/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.132	-7.818	1.55000	2143.70001	542.95000	585.49000	395.47000	10.10800	-6.47720	89.33400	39.89900
-4.127	-5.845	1.55000	2143.70001	542.95000	585.90000	395.75000	10.02700	-6.63140	90.06100	39.79200
-4.112	-3.862	1.55000	2144.39999	543.13000	585.70000	395.61000	9.94310	-6.74230	90.57900	39.72200
-4.032	.039	1.55000	2144.39999	543.13000	585.90000	395.75000	9.80330	-6.88280	90.51000	39.68600
-4.025	3.905	1.55000	2144.39999	543.13000	585.80000	395.68000	9.66530	-6.95110	89.61100	39.65100
	GRADIENT	-.00000	-.00000	-.00000	.01293	.00905	-.03576	-.02689	-.12446	-.00914

RUN NO. 81/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.315	-8.184	1.55000	2144.39999	543.13000	584.95000	395.11000	10.12300	-6.32200	66.97300	40.14600
-.323	-6.257	1.55000	2143.70001	542.95000	586.04000	395.84000	10.08000	-6.45060	69.10400	40.07500
-.314	-4.272	1.55000	2144.39999	543.13000	585.76000	395.65000	10.00800	-6.62190	91.16700	39.96900
-.263	-.230	1.55000	2145.10001	543.31000	585.56000	395.52000	9.88750	-6.85240	88.29600	39.93400
-.258	3.804	1.55000	2144.39999	543.13000	585.35000	395.38000	9.77730	-6.95130	78.58200	39.86300
	GRADIENT	.00000	.00006	.00001	-.05076	-.03467	-.02857	-.04079	-1.55798	-.01312

IA138 AMES 246-1-97 OTS POWER ON (S3D038) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 195.714 SSMEPR = 372.069
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 80/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.774	-8.200	1.55000	2144.39999	543.13000	583.21000	393.93000	10.11500	-6.18330	70.22200	38.30600
3.855	-6.248	1.55000	2143.70001	542.95000	583.52000	394.14000	10.06900	-6.29540	53.72300	38.69600
3.944	-4.227	1.55000	2143.70001	542.95000	583.59000	394.19000	10.00900	-6.41910	61.44400	38.26200
4.062	-.021	1.55000	2144.39999	543.13000	584.13000	394.55000	9.94280	-6.72220	50.31000	39.93400
3.976	4.159	1.55000	2143.70001	542.95000	583.82000	394.35000	9.87860	-6.91470	61.40900	40.35800
	GRADIENT	.00000	.00017	.00004	.02753	.01915	-.01555	-.05911	-.00690	.13072

IA138 AMES 246-1-97 OTS POWER ON (S3D039) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.712 SSMEPR = 479.841
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 83/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.082	-5.833	1.79910	2143.00000	373.47000	579.43000	351.73000	9.83160	-6.75190	86.94600	38.02300
-4.073	-3.878	1.79910	2143.00000	373.47000	579.15000	351.56000	9.78010	-6.85040	86.84200	37.95200
-3.991	.023	1.79910	2142.29999	373.35000	579.32000	351.67000	9.66450	-7.03640	87.11900	37.98800
-3.986	3.889	1.79910	2142.29999	373.35000	579.05000	351.50000	9.53840	-7.09780	87.25700	37.98800
-4.005	5.883	1.79910	2141.60001	373.23000	579.09000	351.52000	9.47370	-7.07830	85.45600	38.02300
	GRADIENT	.00000	-.09025	-.01547	-.01279	-.00767	-.03111	-.03187	.05345	.00484

RUN NO. 84/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.210	-6.222	1.79910	2143.00000	373.47000	578.81000	351.36000	9.88210	-6.65500	84.58900	37.91700
-.216	-4.283	1.79910	2143.00000	373.47000	578.85000	351.38000	9.82220	-6.78930	85.42100	37.94600
-.193	-.251	1.79910	2143.00000	373.47000	578.78000	351.34000	9.72240	-6.96350	86.01000	37.95200
-.173	3.791	1.79910	2142.29999	373.35000	578.71000	351.29000	9.63930	-7.07960	86.84200	38.02300
-.156	5.800	1.79910	2141.60001	373.23000	578.30000	351.05000	9.58010	-7.10870	88.19200	38.05900
	GRADIENT	.00000	-.08672	-.01497	-.01734	-.01115	-.02265	-.03607	.17600	.02192

IA138 AMES 246-1-97 OTS POWER ON (S3D039) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.712 SSMEPR = 479.841
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 85/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.686	-5.873	1.79910	2142.29999	373.35000	578.71000	351.29000	9.93540	-6.62130	85.35200	37.95200
3.718	-3.887	1.79910	2142.29999	373.35000	578.64000	351.25000	9.89650	-6.73530	85.35200	37.95200
3.671	.041	1.79910	2143.00000	373.47000	578.33000	351.07000	9.80550	-6.92430	85.14400	38.02300
3.675	3.894	1.79910	2143.00000	373.47000	578.40000	351.11000	9.73600	-7.03860	85.42100	38.05900
3.704	5.870	1.79910	2143.00000	373.47000	578.51000	351.17000	9.71410	-7.06270	86.42600	38.20000
	GRADIENT	-.00000	.09025	.01547	-.03100	-.01808	-.02064	-.03901	.00867	.01377

IA138 AMES 246-1-97 OTS POWER ON (S3D040) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 483.681 SSMEPR = 738.664
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 94/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.070	-5.310	2.19550	2141.60001	201.70000	569.10000	289.76000	9.69550	-7.00570	42.65600	38.34200
-4.058	-3.358	2.19550	2142.29999	201.77000	568.96000	289.69000	9.64560	-7.05560	49.57000	38.27100
-3.975	.539	2.19550	2141.60001	201.70000	569.13000	289.78000	9.54250	-7.12480	46.46800	38.27100
-3.962	4.402	2.19550	2142.29999	201.77000	568.89000	289.65000	9.48220	-7.14970	45.86900	38.34200
-3.983	6.394	2.19550	2141.60001	201.70000	569.00000	289.71000	9.43880	-7.14350	42.40900	38.30600
	GRADIENT	.00000	-.00026	-.00003	-.00894	-.00511	-.02106	-.01213	-.47736	.00914

RUN NO. 93/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.162	-5.314	2.19550	2141.60001	201.70000	567.83000	289.11000	9.78550	-6.98590	73.22100	37.59800
-.148	-3.303	2.19550	2141.60001	201.70000	567.69000	289.04000	9.75020	-7.04670	73.81300	37.81100
-.153	.656	2.19550	2141.60001	201.70000	567.49000	288.94000	9.54800	-7.11470	73.74400	38.05800
-.088	4.750	2.19550	2142.29999	201.77000	568.38000	289.39000	9.57990	-7.16250	73.60400	38.23600
-.074	6.735	2.19550	2141.60001	201.70000	568.62000	289.51000	9.55100	-7.15320	73.60400	38.44800
	GRADIENT	.00000	.08740	.00874	.08643	.04384	-.02112	-.01437	-.02600	.05272

IA138 AMES 246-1-97 OTS POWER ON (S3D040) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 463.681 SSMEPR = 738.664
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 92/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.705	-5.352	2.19550	2142.29999	201.77000	567.76000	289.08000	9.89650	-6.95030	74.61500	37.13800
3.734	-3.368	2.19550	2141.60001	201.70000	567.62000	289.01000	9.85210	-7.01900	72.52400	36.46500
3.680	.559	2.19550	2141.60001	201.70000	567.38000	288.89000	9.75930	-7.08610	72.62800	36.50000
3.683	4.405	2.19550	2141.60001	201.70000	567.56000	288.97000	9.67220	-7.12600	73.36000	36.85500
3.709	6.375	2.19550	2141.60001	201.70000	567.66000	289.03000	9.66540	-7.12450	73.50000	37.17300
	GRADIENT	.00000	.00000	.00000	-.00791	-.00523	-.02315	-.01403	.10727	.05003

IA138 AMES 246-1-97 OTS POWER ON (S3D041) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 749.014 SSMEPR = 1316.871
ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 224/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.289	-6.392	2.49460	2132.39999	125.85000	546.63000	243.53000	9.72900	1.76090	65.19000	39.66600
-4.390	-4.373	2.49460	2133.10001	125.89000	547.29000	243.82000	9.68430	1.74860	65.01500	39.01400
-4.427	-.124	2.49460	2133.79999	125.94000	548.26000	244.25000	9.58950	1.71270	64.31500	38.51900
-4.220	4.036	2.49460	2134.50000	125.98000	548.99000	244.58000	9.52300	1.69110	63.51000	38.23600
-4.147	6.050	2.49460	2134.50000	125.98000	549.50000	244.81000	9.49960	1.69470	62.91500	38.12900
	GRADIENT	-.00000	.16647	.01071	.20225	.09041	-.01919	-.00684	-.17892	-.09260

RUN NO. 225/ 0 RN/L = 2.91 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.147	-6.451	2.49460	2135.20001	126.02000	550.92000	245.44000	9.82180	1.84160	63.89600	37.98800
-.156	-4.509	2.49460	2136.00000	126.06000	551.79000	245.82000	9.78600	1.80440	65.12000	37.89100
-.136	-.477	2.49460	2136.70001	126.10000	552.13000	245.98000	9.70900	1.76360	65.78500	37.91700
-.116	3.566	2.49460	2136.70001	126.10000	553.31000	246.50000	9.63040	1.72970	65.61000	37.91700
-.100	5.574	2.49460	2137.39999	126.14000	553.62000	246.64000	9.59400	1.73350	65.33000	38.02300
	GRADIENT	.00000	.08667	.00495	.18833	.08425	-.01927	-.00925	.08065	.00446

IA138 AMES 246-1-97 OTS POWER ON (S3D041) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 749.014 SSMEPR = 1316.871
ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 226/ 0 RN/L = 2.89 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.883	-6.442	2.49460	2137.39999	126.14000	554.62000	247.09000	9.90860	1.84710	65.22500	37.77500
3.982	-4.463	2.49460	2136.70001	126.10000	554.48000	247.02000	9.88600	1.82090	65.64500	37.56300
4.103	-.255	2.49460	2137.39999	126.14000	555.31000	247.39000	9.82880	1.79860	66.69400	37.52700
4.014	3.925	2.49460	2136.70001	126.10000	555.31000	247.39000	9.73850	1.76310	68.40600	37.45700
3.981	5.953	2.49460	2136.70001	126.10000	556.07000	247.73000	9.71220	1.76040	70.01200	37.42100
	GRADIENT	.00000	.00019	.00001	.09906	.04418	-.01758	-.00689	.32907	-.01263

IA138 AMES 246-1-97 OTS POWER ON (S3D042) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 186.334 SSMEPR = 371.871
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 96/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.134	-7.808	1.55000	2138.79999	541.70000	577.34000	389.97000	11.95500	-2.05010	88.19200	41.84300
-4.128	-5.843	1.55000	2138.79999	541.70000	578.47000	390.73000	11.87300	-2.12210	88.98800	41.84300
-4.114	-3.858	1.55000	2138.79999	541.70000	578.88000	391.01000	11.78700	-2.18290	89.85300	41.87900
-4.030	.042	1.55000	2138.79999	541.70000	579.56000	391.47000	11.65500	-2.23190	90.37200	41.84300
-4.029	3.901	1.55000	2139.50000	541.87000	580.01000	391.77000	11.53200	-2.25520	90.57900	41.81400
-4.043	5.900	1.55000	2138.79999	541.70000	580.59000	392.16000	11.49700	-2.24470	90.16400	41.80800
	GRADIENT	-.00000	.09005	.02187	.14567	.09797	-.03286	-.00932	.09363	.00449

RUN NO. 97/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.260	-8.170	1.55000	2138.10001	541.52000	582.73000	393.61000	11.98500	-1.82740	92.03100	41.31300
-.268	-6.245	1.55000	2138.10001	541.52000	583.21000	393.93000	11.94300	-1.96170	92.17000	41.20700
-.257	-4.262	1.55000	2137.39999	541.34000	584.27000	394.65000	11.86500	-2.07720	93.41300	40.88900
-.240	-.230	1.55000	2137.39999	541.34000	584.95000	395.11000	11.74500	-2.19420	93.68900	40.85300
-.211	3.803	1.55000	2138.10001	541.52000	585.53000	395.50000	11.63500	-2.20380	96.89900	40.78300
-.195	5.815	1.55000	2137.39999	541.34000	585.97000	395.79000	11.56900	-2.21740	96.72600	40.71200
	GRADIENT	-.00000	.08679	.02232	.15622	.10539	-.02852	-.01570	.43221	-.01314

IA138 AMES 246-1-97 OTS POWER ON (S3D042) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.9100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.334 SSMEPR = 371.871
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 99/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.769	-8.187	1.55000	2137.39999	541.34000	586.51000	396.16000	11.98500	-1.62280	95.89800	40.28800
3.851	-6.243	1.55000	2137.39999	541.34000	586.92000	396.44000	11.94700	-1.74760	95.51900	40.14800
3.941	-4.225	1.55000	2137.39999	541.34000	587.26000	396.67000	11.88700	-1.87150	95.07000	40.11100
4.057	-.019	1.55000	2137.39999	541.34000	587.57000	396.87000	11.81700	-2.08710	95.69100	40.18200
3.969	4.158	1.55000	2138.10001	541.52000	587.60000	395.90000	11.75500	-2.18430	96.14000	40.25200
3.938	6.188	1.55000	2137.39999	541.34000	587.46000	396.80000	11.72400	-2.19150	97.79500	40.32300
	GRADIENT	-.00000	.08341	.02145	.04059	.02746	-.01575	-.03733	.12765	.01682

IA138 AMES 246-1-97 OTS POWER ON (S3D043) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.806 SSMEPR = 475.914
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 107/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.273	-8.171	1.79960	2136.00000	371.99000	582.90000	353.77000	11.80400	-1.95890	89.12700	40.04000
-4.365	-6.202	1.79960	2136.00000	371.99000	583.38000	354.06000	11.71700	-2.05870	90.61400	39.96900
-4.428	-4.157	1.79960	2136.70001	372.11000	582.97000	353.81000	11.65600	-2.11780	90.82200	39.96900
-4.465	.096	1.79960	2136.00000	371.99000	583.21000	353.96000	11.53000	-2.24140	90.26800	40.04000
-4.256	4.258	1.79960	2136.00000	371.99000	583.04000	353.85000	11.39000	-2.29520	89.47300	40.07500
-4.183	6.271	1.79960	2136.70001	372.11000	582.73000	353.67000	11.33400	-2.26090	88.22700	40.11100
	GRADIENT	.00000	-.08349	-.01431	.00650	.00487	-.03161	-.02111	-.16021	.01261

RUN NO. 106/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.204	-7.795	1.79960	2136.00000	371.99000	582.97000	353.81000	11.84300	-1.88510	90.47600	40.21700
-.177	-5.828	1.79960	2136.00000	371.99000	583.01000	353.83000	11.76600	-2.02310	89.71500	40.18200
-.161	-3.822	1.79960	2136.70001	372.11000	583.21000	353.96000	11.71100	-2.08040	90.33700	40.14600
-.164	.137	1.79960	2136.70001	372.11000	583.21000	353.96000	11.59700	-2.16960	91.51300	40.18200
-.106	4.236	1.79960	2136.70001	372.11000	583.14000	353.92000	11.51700	-2.27430	92.44600	40.14600
-.093	6.225	1.79960	2136.00000	371.99000	582.84000	353.73000	11.45700	-2.30400	93.08800	40.11100
	GRADIENT	-.00000	-.00000	-.00000	-.00874	-.00499	-.02405	-.02407	.26153	-.00005

IA138 AMES 246-1-97 OTS POWER ON (S3D043) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.808 SSMEPR = 475.914
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 105/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.810	-8.207	1.79960	2139.50000	372.61000	583.18000	353.94000	11.92100	-1.82780	92.61900	39.15600
3.890	-6.256	1.79960	2143.00000	373.22000	583.04000	353.85000	11.86000	-1.85650	91.30600	39.79200
3.980	-4.238	1.79960	2137.39999	372.24000	583.24000	353.98000	11.82200	-2.02700	91.47800	40.04000
4.097	-.035	1.79960	2136.70001	372.11000	582.73000	353.67000	11.72200	-2.12660	90.51000	40.50000
4.010	4.140	1.79960	2136.70001	372.11000	582.63000	353.61000	11.63500	-2.20830	90.96000	40.42900
3.980	6.171	1.79960	2136.00000	371.99000	583.18000	353.94000	11.61700	-2.23930	91.27100	40.50000
	GRADIENT	-.00000	-.08365	-.01553	-.07287	-.04420	-.02232	-.02164	-.06202	.04650

IA138 AMES 246-1-97 OTS POWER ON (S3D044) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.742 SSMEPR = 477.942
ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 148/ 0 RN/L = 3.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.332	-6.169	1.79960	2133.79999	371.62000	569.68000	345.75000	11.75500	-5.04300	84.79700	40.92400
-4.431	-4.148	1.79960	2133.79999	371.62000	570.30000	346.12000	11.70600	-5.08320	85.59400	40.71200
-4.466	.099	1.79960	2136.00000	371.99000	571.22000	346.68000	11.57500	-5.20690	85.83700	40.57100
-4.257	4.260	1.79960	2135.20001	371.87000	571.91000	347.10000	11.43000	-5.25880	84.69300	40.46400
-4.184	6.272	1.79960	2135.20001	371.87000	572.05000	347.18000	11.37200	-5.23640	83.47900	40.28800
	GRADIENT	.00000	.16772	.02993	.19156	.11660	-.03282	-.02091	-.10659	-.02951

RUN NO. 149/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.208	-6.225	1.79960	2135.20001	371.87000	573.35000	347.97000	11.79500	-4.90730	85.07400	40.04000
-.217	-4.285	1.79960	2136.00000	371.99000	573.24000	347.91000	11.74600	-5.02520	84.52000	39.82800
-.196	-.254	1.79960	2135.20001	371.87000	573.38000	347.99000	11.63900	-5.12330	85.83700	39.72200
-.176	3.783	1.79960	2135.20001	371.87000	574.54000	348.70000	11.54600	-5.21130	88.09200	39.29700
-.160	5.796	1.79960	2134.60000	371.75000	575.23000	349.11000	11.49300	-5.24970	89.16100	39.22600
	GRADIENT	-.00000	-.09913	-.01487	.16116	.09794	-.02479	-.02307	.56673	-.06582

IA138 AMES 246-1-97 OTS POWER ON (S30044) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.742 SSMEPR = 477.942
ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 150/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.823	-6.216	1.79960	2135.20001	371.87000	575.81000	349.46000	11.87400	-4.84200	88.60800	38.87300
3.923	-4.240	1.79960	2135.20001	371.87000	576.80000	350.07000	11.83800	-4.95970	88.19200	38.66000
4.042	-.033	1.79960	2134.50000	371.75000	576.05000	349.61000	11.74500	-5.08200	87.74200	38.69600
3.953	4.147	1.79960	2134.50000	371.75000	576.70000	350.00000	11.65600	-5.16530	87.46500	38.69600
3.918	8.175	1.79960	2133.10001	371.50000	576.87000	350.11000	11.63300	-5.20150	88.60800	38.69600
	GRADIENT	.00000	-.08354	-.01432	-.01210	-.00845	-.02170	-.02452	-.08670	.00430

IA138 AMES 246-1-97 OTS POWER ON (S30045) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.380 SSMEPR = 370.730
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 133/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.134	-7.816	1.55000	2137.39999	541.34000	586.82000	396.37000	11.98400	-6.67660	95.48400	43.04500
-4.127	-5.842	1.55000	2136.70001	541.16000	586.92000	396.44000	11.90000	-6.82490	94.65600	42.86800
-4.113	-3.859	1.55000	2136.70001	541.16000	587.19000	396.62000	11.81900	-6.94880	95.00100	42.72700
-4.029	.042	1.55000	2137.39999	541.34000	587.16000	396.60000	11.68900	-7.04920	95.20800	42.62100
-4.025	3.906	1.55000	2137.39999	541.34000	587.06000	396.53000	11.56400	-7.09080	94.41500	42.51500
-4.044	5.897	1.55000	2137.39999	541.34000	587.12000	396.58000	11.52900	-7.09610	95.07000	42.47900
	GRADIENT	-.00000	.09029	.02322	-.01673	-.01158	-.03284	-.01830	-.07526	-.02730

RUN NO. 132/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.249	-7.809	1.55000	2137.39999	541.34000	586.27000	396.00000	12.01200	-6.53740	94.72500	43.23200
-.230	-5.813	1.55000	2136.70001	541.16000	586.07000	395.86000	11.94900	-6.68170	94.41500	43.36200
-.214	-3.806	1.55000	2136.70001	541.16000	586.68000	396.28000	11.87900	-6.85830	94.24200	43.46800
-.201	.157	1.55000	2136.70001	541.16000	586.51000	396.16000	11.76300	-7.04080	94.82900	43.46200
-.151	4.255	1.55000	2136.70001	541.16000	586.95000	396.46000	11.65800	-7.09020	96.58800	43.43300
-.136	6.244	1.55000	2136.70001	541.16000	586.68000	396.28000	11.59400	-7.09720	97.55400	43.23200
	GRADIENT	.00000	.00000	.00000	.03392	.02262	-.02741	-.02868	.29183	-.00437

IA138 AMES 246-1-97 OTS POWER ON (S3D045) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.380 SSMEPR = 370.730
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 131/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.628	-7.651	1.55000	2137.39999	541.34000	586.34000	396.05000	12.01300	-6.37340	95.76000	43.08000
3.672	-5.871	1.55000	2136.70001	541.16000	585.25000	395.31000	11.96600	-6.52550	91.27100	42.19700
3.677	-3.868	1.55000	2137.39999	541.34000	585.18000	395.27000	11.91100	-6.65820	91.51300	41.94900
3.629	.063	1.55000	2136.70001	541.16000	585.63000	395.56000	11.84300	-6.94920	92.20400	42.09100
3.629	3.908	1.55000	2136.70001	541.16000	586.04000	395.84000	11.78300	-7.07000	94.03500	42.47900
3.659	5.884	1.55000	2137.39999	541.34000	585.93000	395.77000	11.76500	-7.08140	94.72500	42.79700
	GRADIENT	-.00000	-.09035	-.02323	.11062	.07331	-.01647	-.05304	.32381	.06805

IA138 AMES 246-1-97 OTS POWER ON (S3D046) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.464 SSMEPR = 476.752
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 134/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.082	-5.828	1.79960	2136.00000	371.99000	580.79000	352.49000	11.73400	-6.94560	91.96200	40.28800
-4.074	-3.875	1.79960	2136.70001	372.11000	581.17000	352.72000	11.68600	-7.02190	91.96200	40.21700
-3.992	.026	1.79960	2136.00000	371.99000	580.83000	352.51000	11.57200	-7.13600	91.85900	40.25200
-3.984	3.891	1.79960	2136.00000	371.99000	580.72000	352.45000	11.44800	-7.20080	91.61700	40.21700
-4.006	5.882	1.79960	2136.00000	371.99000	580.65000	352.41000	11.39000	-7.18460	90.30300	40.18200
	GRADIENT	.00000	-.09027	-.01547	-.05799	-.03479	-.03064	-.02304	-.04439	.00001

RUN NO. 135/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.186	-5.797	1.79960	2136.00000	371.99000	580.65000	352.41000	11.77800	-6.84800	89.95700	40.00500
-.161	-3.821	1.79960	2136.00000	371.99000	580.72000	352.45000	11.73600	-6.98010	89.61100	39.89900
-.163	.140	1.79960	2135.20001	371.87000	580.42000	352.26000	11.62600	-7.08930	90.61400	39.89900
-.104	4.241	1.79960	2136.00000	371.99000	580.42000	352.26000	11.54300	-7.19170	91.61700	39.86300
-.090	6.227	1.79960	2136.00000	371.99000	580.25000	352.16000	11.48600	-7.22910	92.72200	39.86300
	GRADIENT	-.00000	.00115	.00017	-.03700	-.02343	-.02392	-.02624	.24881	-.00449

IA138 AMES 246-1-97 OTS POWER ON (S3D046) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.464 SSMEPR = 476.752
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 136/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.682	-5.866	1.79960	2136.00000	371.99000	580.28000	352.18000	11.86900	-6.80990	88.91900	39.72200
3.716	-3.884	1.79960	2136.00000	371.99000	580.25000	352.16000	11.83000	-6.92730	88.88400	39.54500
3.666	.044	1.79960	2136.00000	371.99000	580.01000	352.01000	11.73400	-7.06200	89.19600	39.61600
3.668	3.895	1.79960	2135.20001	371.87000	580.31000	352.20000	11.66100	-7.14420	89.33400	39.56000
3.698	5.869	1.79960	2136.00000	371.99000	580.31000	352.20000	11.63800	-7.17600	89.99200	39.58000
	GRADIENT	.00000	-.10251	-.01538	.00749	.00500	-.02174	-.02791	.05792	.00454

IA138 AMES 246-1-97 OTS POWER ON (S3D047) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.378 SSMEPR = 372.181
ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 177/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.134	-7.812	1.55000	2136.00000	540.98000	574.58000	388.10000	8.21480	-2.02250	87.74200	41.73700
-4.128	-5.840	1.55000	2135.20001	540.80000	575.40000	388.66000	8.13430	-2.09560	88.29600	41.38400
-4.112	-3.857	1.55000	2134.50000	540.62000	576.29000	389.26000	8.04170	-2.16090	88.64200	41.17200
-4.032	.042	1.55000	2135.20001	540.80000	577.17000	389.86000	7.90150	-2.20290	89.40300	41.03000
-4.023	3.904	1.55000	2136.00000	540.98000	578.13000	390.50000	7.77120	-2.22610	89.81900	40.88900
	GRADIENT	-.00000	.19325	.04639	.23706	.15976	-.03486	-.00840	.15172	-.03646

RUN NO. 178/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.260	-8.171	1.55000	2136.00000	540.98000	579.12000	391.17000	8.22400	-1.77950	91.89300	40.74700
-.267	-6.245	1.55000	2135.20001	540.80000	580.14000	391.86000	8.16220	-1.92920	91.34000	40.57100
-.256	-4.261	1.55000	2135.20001	540.80000	580.35000	392.00000	8.11080	-2.04080	91.92800	40.42900
-.237	-.230	1.55000	2134.50000	540.62000	581.61000	392.85000	7.98960	-2.17370	92.27300	40.42900
-.212	3.807	1.55000	2135.20001	540.80000	581.64000	392.87000	7.87530	-2.20260	94.55300	40.42900
	GRADIENT	.00000	.00004	.00001	.15985	.10781	-.02919	-.02005	.32540	-.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D047) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.379 SSMEPR = 372.181
ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 179/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.570	-7.851	1.55000	2134.50000	540.62000	582.46000	393.43000	8.18920	-1.61450	95.20800	40.14600
3.613	-5.867	1.55000	2134.50000	540.62000	582.77000	393.63000	8.14830	-1.75780	94.86300	39.93400
3.617	-3.865	1.55000	2135.20001	540.80000	583.24000	393.96000	8.09310	-1.88390	95.27700	39.89900
3.567	.059	1.55000	2135.20001	540.80000	583.96000	394.44000	8.01650	-2.09510	95.79500	39.93400
3.575	3.907	1.55000	2134.50000	540.62000	584.47000	394.78000	7.96410	-2.17120	96.93300	39.93400
	GRADIENT	.00000	-.08977	-.02308	.15833	.10555	-.01661	-.03702	.21278	.00452

IA138 AMES 246-1-97 OTS POWER ON (S3D048) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.146 SSMEPR = 1637.358
ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 147/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.146	-7.787	1.54950	2134.50000	541.00000	588.69000	397.71000	8.22280	-6.73410	94.86300	42.86800
-4.139	-5.830	1.54950	2134.50000	541.00000	588.52000	397.60000	8.14260	-6.87300	94.69100	42.62100
-4.124	-3.852	1.54950	2135.20001	541.18000	588.72000	397.73000	8.04840	-6.99910	94.96700	42.40900
-4.036	.041	1.54950	2135.20001	541.18000	588.92000	397.87000	7.90720	-7.07220	95.45000	42.30300
-4.032	3.895	1.54950	2135.20001	541.18000	589.20000	398.05000	7.76490	-7.11610	94.86300	42.16100
	GRADIENT	.00000	-.00000	.00000	.06194	.04130	-.03659	-.01511	-.01320	-.03200

RUN NO. 146/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.288	-7.756	1.54950	2133.79999	540.82000	587.74000	397.07000	8.22290	-6.58900	96.03600	43.92800
-.261	-5.800	1.54950	2134.50000	541.00000	587.91000	397.18000	8.16910	-6.72950	94.76000	43.71600
-.244	-3.799	1.54950	2135.20001	541.18000	588.41000	397.53000	8.10230	-6.90750	94.38000	43.53900
-.196	.154	1.54950	2135.20001	541.18000	588.28000	397.43000	7.98440	-7.06350	94.82900	43.39800
-.182	4.242	1.54950	2134.50000	541.00000	588.45000	397.55000	7.85370	-7.11740	95.20900	43.18600
	GRADIENT	-.00000	-.08754	-.02251	.00518	.00254	-.03092	-.02603	.22809	-.04395

IA138 AMES 246-1-97 OTS POWER ON (S30048) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.446 SSMEPR = 1637.358
ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 145/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.571	-7.824	1.54950	2134.50000	541.00000	586.55000	396.26000	8.19790	-6.45870	94.38000	44.98700
3.616	-5.855	1.54950	2133.79999	540.82000	587.16000	396.68000	8.15560	-6.56560	94.65600	43.96300
3.620	-3.859	1.54950	2135.20001	541.18000	587.33000	396.79000	8.09480	-6.70830	94.82900	43.85700
3.571	.059	1.54950	2135.20001	541.18000	587.36000	396.81000	8.02600	-6.99850	95.27700	43.99800
3.575	3.894	1.54950	2134.50000	541.00000	587.40000	396.84000	7.96810	-7.09950	96.48500	44.10400
	GRADIENT	-.00000	-.08996	-.02313	.00902	.00644	-.01635	-.05054	.21322	.03187

IA138 AMES 246-1-97 OTS POWER ON (S30049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 126/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.072	-5.304	2.19550	2135.20001	201.10000	569.00000	289.71000	3.91410	-2.11980	79.38200	36.92500
-4.061	-3.354	2.19550	2134.50000	201.04000	569.27000	289.85000	3.84590	-2.16920	79.80300	36.89000
-3.980	.545	2.19550	2134.50000	201.04000	568.86000	289.64000	3.74500	-2.23710	78.75600	36.95500
-3.968	4.411	2.19550	2135.20001	201.10000	569.37000	289.90000	3.67760	-2.26760	78.37300	36.85500
-3.988	6.402	2.19550	2135.20001	201.10000	569.27000	289.85000	3.62970	-2.26850	77.36500	36.85500
	GRADIENT	-.00000	.09003	.00772	.01271	.00636	-.02168	-.01268	-.19720	-.00451

RUN NO. 125/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.174	-5.277	2.19550	2135.20001	201.10000	568.10000	289.25000	3.97710	-2.10290	78.46600	36.00400
-.149	-3.299	2.19550	2135.20001	201.10000	569.89000	289.65000	3.92390	-2.15140	79.34700	36.35900
-.151	.660	2.19550	2135.20001	201.10000	569.00000	289.71000	3.82920	-2.21320	79.45100	36.50000
-.092	4.757	2.19550	2135.20001	201.10000	568.69000	289.55000	3.75920	-2.26190	79.41600	36.74800
-.078	6.746	2.19550	2134.50000	201.04000	568.86000	289.64000	3.72420	-2.26420	79.34700	36.85500
	GRADIENT	.00000	-.00000	-.00000	-.02512	-.01257	-.02042	-.01370	.00846	.04835

IA138 AMES 246-1-97 OTS POWER ON (S3D049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 124/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.697	-5.340	2.19550	2134.50000	201.04000	568.52000	289.46000	4.06230	-2.09360	80.00700	34.87000
3.728	-3.360	2.19550	2135.20001	201.10000	568.62000	289.51000	4.00400	-2.12510	79.83300	34.69300
3.672	.565	2.19550	2135.20001	201.10000	568.41000	289.41000	3.89770	-2.18130	79.20800	34.87000
3.677	4.416	2.19550	2136.00000	201.17000	568.38000	289.39000	3.81660	-2.21810	79.83300	35.18900
3.705	6.387	2.19550	2136.00000	201.17000	567.97000	289.18000	3.81420	-2.21700	80.45900	35.54400
	GRADIENT	-.00000	.10255	.00897	-.03084	-.01547	-.02411	-.01197	-.00051	.06373

IA138 AMES 246-1-97 OTS POWER ON (S3D050) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.805 SSMEPR = 1326.922
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 115/ 0 RN/L = 2.90 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.020	-6.045	2.49460	2136.00000	126.06000	552.62000	246.19000	3.88790	-2.26580	63.93100	38.27100
-4.011	-4.096	2.49460	2135.20001	126.02000	553.00000	246.36000	3.84270	-2.27330	64.24500	37.98800
-3.932	-.198	2.49460	2136.00000	126.06000	553.62000	246.64000	3.75940	-2.29540	64.42000	37.84600
-3.924	3.667	2.49460	2135.20001	126.02000	554.00000	246.81000	3.67790	-2.30370	64.14100	37.66900
-3.944	5.659	2.49460	2135.20001	126.02000	554.51000	247.04000	3.66650	-2.29040	63.68600	37.59800
	GRADIENT	.00000	.00029	.00001	.12886	.05799	-.02123	-.00392	-.01331	-.04108

RUN NO. 116/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.126	-6.019	2.49460	2134.50000	125.98000	556.41000	247.89000	3.97020	-2.22820	71.51200	36.42900
-.102	-4.042	2.49460	2135.20001	126.02000	557.45000	248.35000	3.92060	-2.24350	71.40800	36.18100
-.104	-.082	2.49460	2135.20001	126.02000	557.65000	248.44000	3.83590	-2.27230	70.74500	36.14600
-.045	4.016	2.49460	2135.20001	126.02000	557.83000	248.51000	3.76180	-2.28890	70.18700	36.14600
-.032	6.000	2.49460	2135.20001	126.02000	558.69000	248.90000	3.72660	-2.23060	68.02200	35.86300
	GRADIENT	-.00000	.00000	-.00000	.04714	.01984	-.01972	-.00563	-.15144	-.00432

IA138 AMES 246-1-97 OTS POWER ON (S3D050) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	748.805	SSMEPR =	1326.922
ELV-IB =	4.000	ELV-OB =	-2.000
MACH =	2.500		

RUN NO. 117/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.742	-6.087	2.49460	2135.20001	126.02000	559.48000	249.25000	4.01640	-2.19820	70.95400	35.47300
3.775	-4.106	2.49460	2135.20001	126.02000	559.38000	249.21000	3.97720	-2.21990	71.12900	35.43700
3.726	-.178	2.49460	2135.20001	126.02000	559.69000	249.34000	3.89750	-2.24060	71.23300	35.47300
3.729	3.672	2.49460	2135.20001	126.02000	560.06000	249.51000	3.83010	-2.26480	71.61700	35.57900
3.758	5.642	2.49460	2135.20001	126.02000	560.34000	249.63000	3.80890	-2.26120	71.86100	35.57900
	GRADIENT	.00000	.00000	.00000	.08740	.03855	-.01892	-.00577	.06262	.01823

IA138 AMES 246-1-97 OTS POWER ON (S3D051) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	273.294	SSMEPR =	477.177
ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	1.800		

RUN NO. 155/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.328	-6.178	1.79960	2133.79999	371.62000	573.89000	348.30000	4.19690	-4.96240	89.30000	40.35800
-4.431	-4.157	1.79960	2134.50000	371.75000	574.61000	348.74000	4.12150	-5.04470	89.71500	40.25200
-4.470	.097	1.79960	2134.50000	371.75000	574.44000	348.63000	3.98360	-5.16110	89.50700	40.21700
-4.261	4.262	1.79960	2134.50000	371.75000	574.78000	348.84000	3.82430	-5.21350	88.36500	40.18200
-4.185	6.274	1.79960	2134.50000	371.75000	574.85000	348.88000	3.76010	-5.18660	87.15300	40.11100
	GRADIENT	.00000	-.00000	.00000	.01998	.01174	-.03529	-.02008	-.15997	-.00831

RUN NO. 156/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.208	-6.226	1.79960	2134.50000	371.75000	575.81000	349.46000	4.18610	-4.84520	88.33100	39.93400
-.216	-4.285	1.79960	2134.50000	371.75000	575.67000	349.38000	4.12030	-4.99150	88.22700	39.82800
-.200	-.252	1.79960	2133.79999	371.62000	576.05000	349.61000	4.03020	-5.09720	89.36900	39.79200
-.175	3.785	1.79960	2134.50000	371.75000	576.08000	349.63000	3.93070	-5.18520	90.78700	39.85300
-.160	5.796	1.79960	2134.50000	371.75000	576.66000	349.98000	3.86180	-5.21880	91.85900	39.75700
	GRADIENT	-.00000	.00003	.00000	.05080	.03097	-.02349	-.02400	.31720	.00434

IA138 AMES 246-1-97 OTS POWER ON (S3D051) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.294 SSMEPR = 477.177
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 157/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.833	-6.216	1.79960	2134.50000	371.75000	576.97000	350.17000	4.21690	-4.77080	88.98800	39.50900
3.928	-4.242	1.79960	2133.79999	371.62000	577.14000	350.27000	4.15880	-4.90650	89.47300	39.36800
4.043	-.032	1.79960	2133.79999	371.62000	577.24000	350.34000	4.06560	-5.05680	89.30000	39.47400
3.954	4.148	1.79960	2133.79999	371.62000	577.14000	350.27000	3.99060	-5.14350	88.33100	39.47400
3.920	6.179	1.79960	2134.50000	371.75000	577.31000	350.38000	3.97410	-5.16960	89.78400	39.47400
	GRADIENT	.00000	.00000	.00000	.00003	.00002	-.02005	-.02826	-.13600	.01265

IA138 AMES 246-1-97 OTS POWER ON (S3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.163 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 166/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.079	-5.302	2.19550	2135.20001	201.10000	569.34000	289.88000	3.91940	-5.06510	80.73700	38.97900
-4.065	-3.352	2.19550	2136.70001	201.24000	569.48000	289.95000	3.85450	-5.11970	80.98000	39.08500
-3.981	.548	2.19550	2136.00000	201.17000	569.92000	290.18000	3.75290	-5.19010	80.25000	39.12000
-3.972	4.414	2.19550	2136.70001	201.24000	569.37000	289.90000	3.68840	-5.22290	79.31200	39.08500
-3.989	6.405	2.19550	2136.70001	201.24000	569.30000	289.86000	3.63890	-5.21850	78.75600	39.08500
	GRADIENT	.00000	-.00026	-.00003	-.01398	-.00634	-.02140	-.01330	-.21477	.00001

RUN NO. 165/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.174	-5.277	2.19550	2134.50000	201.04000	569.58000	290.00000	3.97700	-5.04480	81.39600	39.05900
-.148	-3.303	2.19550	2134.50000	201.04000	569.37000	289.90000	3.92750	-5.09990	80.87600	38.30600
-.151	.661	2.19550	2135.20001	201.10000	569.34000	289.88000	3.83780	-5.17050	80.70200	38.49300
-.093	4.761	2.19550	2134.50000	201.04000	569.34000	289.88000	3.76340	-5.22420	80.63200	38.69600
-.080	6.750	2.19550	2135.20001	201.10000	569.58000	290.00000	3.73260	-5.22300	80.52800	38.94300
	GRADIENT	.00000	-.00098	-.00008	-.00370	-.00247	-.02034	-.01540	-.03018	.04838

IA138 AMES 246-1-97 OTS POWER ON (S3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.163 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 164/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.839	-5.693	2.19550	2128.20001	200.44000	570.37000	290.40000	4.07790	-5.03470	83.02800	37.38600
3.934	-3.718	2.19550	2133.10001	200.90000	570.33000	290.39000	4.01740	-5.07170	82.05600	37.03200
4.052	.486	2.19550	2133.10001	200.90000	569.65000	290.04000	3.91000	-5.13880	80.77100	37.06700
3.962	4.666	2.19550	2134.50000	201.04000	569.30000	289.86000	3.82340	-5.18000	81.46600	37.28000
3.928	6.696	2.19550	2134.50000	201.04000	569.41000	289.92000	3.81930	-5.17890	82.57700	37.63400
	GRADIENT	-.00000	.16681	.01668	-.12289	-.06323	-.02314	-.01292	-.07060	.02956

IA138 AMES 246-1-97 OTS POWER ON (S3D053) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 752.323 SSMEPR = 1319.085
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 167/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.271	-6.391	2.49460	2139.50000	126.27000	564.91000	251.67000	3.89790	-5.13760	77.60800	38.73100
-4.372	-4.373	2.49460	2134.50000	125.98000	565.15000	251.78000	3.85070	-5.15920	77.39900	38.76600
-4.406	-.125	2.49460	2134.50000	125.98000	564.40000	251.44000	3.75190	-5.19230	76.46000	38.69600
-4.199	4.037	2.49460	2135.20001	126.02000	564.71000	251.58000	3.67750	-5.21100	75.52000	38.66000
-4.127	6.050	2.49460	2136.00000	126.06000	564.71000	251.58000	3.66440	-5.20410	74.40600	38.69600
	GRADIENT	-.00000	.08295	.00474	-.05275	-.02398	-.02060	-.00617	-.22343	-.01262

RUN NO. 168/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.128	-6.024	2.49460	2136.00000	126.06000	564.81000	251.63000	3.97320	-5.09820	75.06700	38.62500
-.101	-4.044	2.49460	2135.20001	126.02000	565.05000	251.73000	3.92560	-5.14180	76.14700	38.37700
-.105	-.080	2.49460	2135.20001	126.02000	565.15000	251.78000	3.83930	-5.18890	75.52000	38.41200
-.044	4.017	2.49460	2134.50000	126.98000	564.26000	251.38000	3.76730	-5.21430	74.89300	38.44800
-.031	6.006	2.49460	2135.20001	126.02000	564.60000	251.53000	3.73520	-5.21050	74.16200	38.55400
	GRADIENT	-.00000	-.08730	-.00499	-.09886	-.04372	-.01962	-.00898	-.15554	.00881

IA138 AMES 246-1-97 OTS POWER ON (S3D053) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0100			

PARAMETRIC DATA

SRBPR =	752.323	SSMEPR =	1319.085
ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	2.500		

RUN NO. 169/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.688	-6.090	2.49460	2135.20001	126.02000	564.78000	251.61000	4.01820	-5.11490	75.24200	38.44800
3.719	-4.106	2.49460	2134.50000	125.98000	564.74000	251.60000	3.97740	-5.14700	75.45000	38.30600
3.667	-.178	2.49460	2135.20001	126.02000	564.50000	251.49000	3.89820	-5.18520	75.55500	38.37700
3.673	3.671	2.49460	2134.50000	125.98000	563.95000	251.24000	3.83170	-5.20680	75.41600	38.48300
3.703	5.645	2.49460	2134.50000	125.98000	564.05000	251.29000	3.81150	-5.21020	74.96300	38.58900
	GRADIENT	-.00000	.00061	.00003	-.10144	-.04623	-.01874	-.00770	-.00426	.02274

IA138 AMES 246-1-97 OTS POWER ON (S3D054) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0100			

PARAMETRIC DATA

SRBPR =	462.607	SSMEPR =	735.810
ELV-IB =	4.000	ELV-OB =	-7.000
MACH =	2.200		

RUN NO. 194/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.340	-5.660	2.19550	2136.70001	201.24000	555.83000	283.00000	3.92380	-7.00000	68.44100	39.33300
-4.442	-3.634	2.19550	2136.70001	201.24000	551.96000	281.03000	3.85140	-7.00000	70.25600	40.78300
-4.474	.620	2.19550	2136.00000	201.17000	552.58000	281.35000	3.73910	-7.00000	69.10400	39.82800
-4.265	4.785	2.19550	2136.70001	201.24000	553.55000	281.84000	3.66720	-7.00000	68.12600	39.29700
-4.188	6.795	2.19550	2136.70001	201.24000	554.89000	282.53000	3.82100	-7.00000	66.97300	39.22600
	GRADIENT	.00000	-.00058	-.00006	.18871	.09614	-.02190	.00000	-.25307	-.17668

RUN NO. 195/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.208	-5.758	2.19550	2135.20001	201.10000	556.38000	283.28000	3.98880	-7.00000	70.36100	39.36800
-.199	-3.769	2.19550	2135.20001	201.10000	556.93000	283.56000	3.93390	-7.00000	71.26800	39.43900
-.186	.269	2.19550	2134.50000	201.04000	557.89000	284.05000	3.84210	-7.00000	72.38400	39.50900
-.159	4.306	2.19550	2134.50000	201.04000	558.03000	284.12000	3.76370	-7.00000	72.94200	39.50900
-.143	6.317	2.19550	2134.50000	201.04000	558.58000	284.40000	3.73020	-7.00000	72.90700	39.54500
	GRADIENT	.00000	-.08669	-.00743	.13623	.06936	-.02108	.00000	.20732	.00867

IA138 AMES 246-1-97 OTS POWER ON (S3D054) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.607 SSMEPR = 735.810
ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 196/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.647	-5.348	2.19550	2134.50000	201.04000	559.31000	284.77000	4.06180	-7.00000	72.62800	39.43900
3.677	-3.363	2.19550	2135.20001	201.10000	559.79000	285.02000	4.00170	-7.00000	72.41900	39.26200
3.625	.565	2.19550	2135.20001	201.10000	559.75000	285.00000	3.89770	-7.00000	72.03600	39.26200
3.630	4.415	2.19550	2134.50000	201.04000	560.96000	285.61000	3.81900	-7.00000	73.74400	39.26200
3.658	6.391	2.19550	2133.79999	200.97000	560.86000	285.56000	3.81490	-7.00000	76.66900	39.15600
	GRADIENT	-.00000	-.08970	-.00769	.14989	.07558	-.02350	.00000	.16945	-.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D055) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 743.821 SSMEPR = 1312.481
ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 113/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.012	-6.043	2.49400	2143.00000	126.60000	566.53000	252.46000	3.88710	1.84880	71.82600	43.32700
-4.004	-4.093	2.49400	2143.70001	126.65000	566.53000	252.46000	3.84070	1.82410	70.85000	43.15100
-3.925	-.200	2.49400	2143.70001	126.65000	566.32000	252.37000	3.75610	1.78560	70.81500	43.00900
-3.918	3.661	2.49400	2143.70001	126.65000	566.77000	252.57000	3.66980	1.76510	71.30300	42.90300
-3.940	5.650	2.49400	2143.70001	126.65000	566.90000	252.63000	3.65720	1.77020	71.44300	42.86800
	GRADIENT	-.00000	.00000	.00000	.03083	.01413	-.02204	-.00781	.05832	-.03199

RUN NO. 112/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.137	-6.016	2.49400	2143.70001	126.65000	565.57000	252.03000	3.96870	1.84550	72.17500	45.12800
-.112	-4.042	2.49400	2143.70001	126.65000	566.32000	252.37000	3.91890	1.82960	71.66100	44.59800
-.100	-.090	2.49400	2143.70001	126.65000	566.18000	252.31000	3.83720	1.79270	72.48900	44.24500
-.048	4.011	2.49400	2143.70001	126.65000	566.39000	252.40000	3.75860	1.76590	73.29100	43.99800
-.035	5.998	2.49400	2143.00000	126.60000	566.25000	252.34000	3.72350	1.77130	72.76800	43.92200
	GRADIENT	.00000	.00000	-.00000	.00896	.00384	-.01990	-.00790	.17769	-.07442

IA138 AMES 246-1-97 OTS POWER ON (S3D055) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 743.821 SSMEPR = 1312.481
ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 111/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.737	-6.082	2.49400	2143.00000	126.60000	564.36000	251.50000	4.02000	1.84000	74.51000	51.29500
3.770	-4.102	2.49400	2143.70001	126.65000	564.33000	251.48000	3.97800	1.83130	74.33600	50.55600
3.718	-.180	2.49400	2143.00000	126.60000	564.88000	251.73000	3.89470	1.81210	73.56900	49.78100
3.725	3.662	2.49400	2143.70001	126.65000	565.02000	251.79000	3.82530	1.79930	73.01200	48.19600
3.756	5.633	2.49400	2143.00000	126.60000	565.57000	252.03000	3.80400	1.80060	72.87200	46.82100
	GRADIENT	-.00000	-.00062	-.00004	.08905	.04001	-.01967	-.00412	-.17061	-.30359

IA138 AMES 246-1-97 OTS POWER ON (S3D056) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 460.159 SSMEPR = 740.665
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 214/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.319	-5.659	2.19550	2133.79999	200.97000	567.01000	288.69000	.08430	-2.07310	77.50400	37.10200
-4.419	-3.636	2.19550	2134.50000	201.04000	567.18000	288.78000	-.00100	-2.12510	77.67800	37.03200
-4.456	.617	2.19550	2135.20001	201.10000	567.04000	288.71000	-.12580	-2.20370	77.26000	36.81900
-4.244	4.780	2.19550	2133.79999	200.97000	567.38000	288.89000	-.19850	-2.24010	77.50400	36.74800
-4.169	6.792	2.19550	2133.79999	200.97000	568.14000	289.27000	-.25100	-2.21910	76.35600	36.71300
	GRADIENT	.00000	-.08228	-.00824	.02356	.01296	-.02349	-.01368	-.02095	-.03390

RUN NO. 213/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.174	-5.279	2.19550	2135.20001	201.10000	565.81000	288.08000	.11870	-2.07380	77.50400	37.45700
-.147	-3.302	2.19550	2135.20001	201.10000	565.63000	287.99000	.05420	-2.11890	77.33000	37.35000
-.153	.655	2.19550	2136.00000	201.17000	565.63000	287.99000	-.03980	-2.17790	77.64300	37.28000
-.093	4.756	2.19550	2134.50000	201.04000	566.56000	288.47000	-.12760	-2.23200	78.23400	37.24400
-.080	6.741	2.19550	2134.50000	201.04000	567.04000	288.71000	-.16540	-2.23370	77.99100	37.20900
	GRADIENT	.00000	-.08857	-.00759	.11609	.05992	-.02255	-.01403	.01238	-.01313

IA138 AMES 246-1-97 OTS POWER ON (S3D056) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	460.159	SSMEPR =	740.665
ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.200		

RUN NO. 212/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.837	-5.689	2.19550	2131.70001	200.77000	563.13000	286.72000	.20000	-2.09370	74.37100	38.80200
3.930	-3.712	2.19550	2134.50000	201.04000	563.09000	286.70000	.13400	-2.11940	74.40600	38.05900
4.047	.488	2.19550	2135.20001	201.10000	564.26000	287.30000	.01140	-2.16470	75.03300	37.74000
3.960	4.664	2.19550	2134.50000	201.04000	564.33000	287.33000	-.08300	-2.20270	76.14700	37.66900
3.926	6.689	2.19550	2136.00000	201.17000	565.12000	287.73000	-.08740	-2.19630	77.29500	37.63400
	GRADIENT	-.00000	.00016	.00001	.14818	.07528	-.02591	-.00995	.20781	-.04659

IA138 AMES 246-1-97 OTS POWER ON (S3D057) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	751.892	SSMEPR =	1322.416
ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.500		

RUN NO. 217/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.039	-6.049	2.49460	2134.50000	125.98000	563.19000	250.91000	.01070	-2.12160	75.27600	36.57100
-4.030	-4.096	2.49460	2133.10001	125.89000	563.68000	251.12000	-.04030	-2.14680	74.96300	35.93300
-3.952	-.197	2.49460	2133.79999	125.94000	563.61000	251.09000	-.13730	-2.17750	74.19700	35.61500
-3.946	3.668	2.49460	2133.79999	125.94000	563.19000	250.91000	-.22120	-2.19720	73.11600	35.43700
-3.963	5.658	2.49460	2133.79999	125.94000	564.05000	251.29000	-.22860	-2.19100	72.48900	35.36600
	GRADIENT	.00000	.09029	.00645	-.06304	-.02702	-.02330	-.00649	-.23783	-.06391

RUN NO. 219/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.148	-6.437	2.49460	2133.79999	125.94000	563.81000	251.18000	.09060	-2.09650	74.02200	35.11600
-.154	-4.498	2.49460	2133.10001	125.89000	563.92000	251.23000	.03690	-2.13250	74.92800	34.97700
-.131	-.471	2.49460	2133.10001	125.89000	563.57000	251.08000	-.06820	-2.17100	74.02200	34.87000
-.112	3.568	2.49460	2133.10001	125.89000	563.81000	251.18000	-.14970	-2.19770	73.25600	34.80600
-.096	5.580	2.49460	2133.10001	125.89000	563.99000	251.26000	-.18070	-2.19170	72.97700	34.80600
	GRADIENT	.00000	.00000	-.00000	-.01360	-.00518	-.02313	-.00808	-.20729	-.00879

IA138 AMES 246-1-97 OTS POWER ON (S3D057) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 751.892 SSMEPR = 1382.416
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 219/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.697	-6.089	2.49460	2133.10001	125.89000	561.61000	250.20000	.10670	-2.17120	71.09400	34.19700
3.718	-4.104	2.49460	2133.79998	125.94000	561.75000	250.26000	.06000	-2.18100	71.58200	34.33800
3.667	-.177	2.49460	2134.50000	125.98000	561.61000	250.20000	-.03430	-2.19500	72.00100	34.55100
3.676	3.672	2.49460	2135.20001	126.02000	561.72000	250.25000	-.10730	-2.21270	72.17500	34.69300
3.705	5.646	2.49460	2135.20001	126.02000	562.37000	250.54000	-.12620	-2.20840	72.24500	34.94100
	GRADIENT	-.00000	.18005	.01029	-.00397	-.00133	-.02152	-.00408	.07637	.04569

IA138 AMES 246-1-97 OTS POWER ON (S3D058) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.862 SSMEPR = 741.568
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 186/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.318	-5.657	2.19500	2135.20001	201.26000	565.36000	287.92000	.08520	-5.05700	77.36500	37.84600
-4.421	-3.635	2.19500	2136.00000	201.33000	565.70000	288.09000	.00130	-5.12500	78.30400	37.81100
-4.457	.620	2.19500	2135.20001	201.26000	565.91000	288.20000	-.12520	-5.20700	77.53900	37.74000
-4.247	4.785	2.19500	2136.00000	201.33000	565.74000	288.11000	-.20520	-5.24760	77.15600	37.77500
-4.172	6.797	2.19500	2135.20001	201.26000	566.35000	288.43000	-.25270	-5.18740	74.02200	37.49200
	GRADIENT	-.00000	-.00067	-.00006	.00491	.00246	-.02454	-.01458	-.13650	-.00432

RUN NO. 185/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.174	-5.276	2.19500	2136.00000	201.33000	564.71000	287.59000	.11520	-5.06030	78.19900	37.35000
-.147	-3.302	2.19500	2136.00000	201.33000	564.57000	287.52000	.05420	-5.11480	77.85200	37.38600
-.151	.660	2.19500	2136.00000	201.33000	565.02000	287.74000	-.03700	-5.18860	77.60800	37.59800
-.093	4.761	2.19500	2136.00000	201.33000	565.12000	287.80000	-.12590	-5.24060	77.71300	37.63400
-.080	6.750	2.19500	2135.20001	201.26000	564.98000	287.73000	-.16510	-5.24110	78.06000	37.81100
	GRADIENT	.00000	.00000	-.00000	.06796	.03461	-.02233	-.01559	-.01699	.03063

IA138 AMES 246-1-97 OTS POWER ON (S3D058) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.862 SSMEPR = 741.568
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 184/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.837	-5.692	2.19500	2128.20001	200.59000	562.78000	286.61000	.19520	-5.06650	78.26900	38.58900
3.931	-3.713	2.19500	2129.60001	200.73000	563.50000	286.97000	.13020	-5.10250	77.46900	37.66900
4.048	.490	2.19500	2131.00000	200.86000	563.99000	287.22000	.01070	-5.16290	77.01700	37.20900
3.962	4.670	2.19500	2133.79999	201.13000	563.64000	287.04000	-.08310	-5.20160	77.50400	37.20900
3.925	5.697	2.19500	2133.10001	201.06000	564.16000	287.31000	-.09470	-5.19540	78.75600	37.17300
	GRADIENT	-.00000	.50091	.04770	.01680	.00840	-.02545	-.01183	.00407	-.05493

IA138 AMES 246-1-97 OTS POWER ON (S3D059) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 187/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.021	-6.050	2.49460	2131.00000	125.77000	561.82000	250.29000	.00720	-5.11640	73.43000	37.20900
-4.012	-4.095	2.49460	2131.70001	125.81000	561.61000	250.20000	-.04280	-5.15540	73.77900	37.03200
-3.933	-.194	2.49460	2133.10001	125.89000	562.06000	250.40000	-.13950	-5.19740	73.32600	36.96100
-3.929	3.671	2.49460	2134.50000	125.98000	561.85000	250.31000	-.22500	-5.21650	72.62800	36.32500
-3.947	5.663	2.49460	2135.20001	126.02000	562.16000	250.45000	-.23180	-5.20920	72.07000	36.92500
	GRADIENT	-.00000	.36055	.02189	.03104	.01422	-.02346	-.00787	-.14816	-.01378

RUN NO. 188/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.147	-6.438	2.49460	2134.50000	125.98000	562.23000	250.48000	.08820	-5.10560	73.25600	36.67700
-.153	-4.500	2.49460	2134.50000	125.98000	562.33000	250.52000	.03380	-5.14600	73.37100	36.53800
-.133	-.469	2.49460	2134.50000	125.98000	562.71000	250.69000	-.07650	-5.19450	73.91800	36.46500
-.111	3.572	2.49460	2134.50000	125.98000	562.78000	250.72000	-.15170	-5.22260	73.18600	36.50000
-.095	5.583	2.49460	2135.20001	126.02000	562.03000	250.39000	-.18420	-5.21630	72.59400	36.46500
	GRADIENT	.00000	.00000	.00000	.05573	.02477	-.02298	-.00949	-.14681	-.00445

IA138 AMES 246-1-97 OTS POWER ON (S3D059) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 189/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.687	-6.092	2.49460	2135.20001	126.02000	562.78000	250.72000	.10440	-5.11870	73.36000	36.21700
3.721	-4.105	2.49460	2135.20001	126.02000	562.78000	250.72000	.05640	-5.15040	73.43000	36.14600
3.670	-.176	2.49460	2135.20001	126.02000	562.54000	250.62000	-.03750	-5.19120	73.50000	36.11100
3.677	3.675	2.49460	2135.20001	126.02000	562.58000	250.63000	-.10930	-5.21460	73.63900	36.14600
3.706	5.648	2.49460	2134.50000	125.98000	562.16000	250.45000	-.12900	-5.21430	73.36000	36.18100
	GRADIENT	.00000	.00000	.00000	-.02583	-.01162	-.02131	-.00826	.02683	-.00003

IA138 AMES 246-1-97 OTS POWER ON (S3D060) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 753.115 SSMEPR = 1329.449
ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 206/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.261	-6.393	2.49460	2129.60001	125.69000	561.92000	250.34000	.01430	1.85710	72.10500	40.99500
-4.366	-4.373	2.49460	2129.60001	125.69000	561.82000	250.29000	-.04070	1.83000	71.40800	40.92400
-4.401	-.125	2.49460	2130.29999	125.73000	561.99000	250.37000	-.15000	1.79100	71.89600	40.81800
-4.196	4.033	2.49460	2129.60001	125.69000	562.16000	250.45000	-.22910	1.77450	72.41900	40.78300
-4.122	6.043	2.49460	2129.60001	125.69000	562.23000	250.48000	-.24210	1.76990	71.65200	40.74700
	GRADIENT	-.00000	.00059	.00003	.04044	.01903	-.02242	-.00661	.12024	-.01680

RUN NO. 205/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-.149	-6.434	2.49460	2129.60001	125.69000	560.82000	249.85000	.08930	1.85760	73.50000	41.91400
-.156	-4.495	2.49460	2129.60001	125.69000	561.41000	250.11000	.03500	1.83160	72.48900	41.66700
-.139	-.467	2.49460	2129.60001	125.69000	561.23000	250.03000	-.06980	1.79980	72.87200	41.38400
-.112	3.566	2.49460	2129.60001	125.69000	561.51000	250.16000	-.15100	1.76890	73.11600	41.24200
-.095	5.571	2.49460	2129.60001	125.69000	561.51000	250.16000	-.18600	1.77670	72.80300	41.31300
	GRADIENT	.00000	.00000	.00000	.01242	.00621	-.02307	-.00778	.07778	-.05272

IA138 AMES 246-1-97 OTS POWER ON (53D060) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	753.115	SSMEPR =	1329.449
ELV-IB =	.000	ELV-OB =	2.000
MACH =	2.500		

RUN NO. 204/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
3.877	-6.435	2.49460	2128.89999	125.64000	560.27000	249.60000	.11850	1.84270	73.39500	43.29200
3.975	-4.456	2.49460	2129.60001	125.69000	560.44000	249.68000	.06990	1.82700	73.11600	43.25700
4.097	-.255	2.49460	2129.60001	125.69000	560.37000	249.65000	-.03100	1.80670	73.08200	42.97400
4.011	3.921	2.49460	2129.60001	125.69000	561.06000	249.96000	-.10600	1.77890	73.98800	42.72700
3.979	5.948	2.49460	2129.60001	125.69000	561.06000	249.96000	-.12620	1.78160	74.47500	42.55000
	GRADIENT	.00000	.00000	.00000	.07392	.03339	-.02100	-.00574	.10399	-.06328

IA138 AMES 246-1-97 OTS POWER ON (53D061) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	245.861	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 9/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	700.439	.04900	-.24570	2130.29999	125.73000	563.44000	251.01000	9.70270	-2.22120	30.00800	28.83600
2.495	791.251	.04900	-.24570	2130.29999	125.73000	564.05000	251.29000	9.70290	-2.22070	31.10900	28.83600
2.495	891.235	.04900	-.24570	2130.29999	125.73000	563.88000	251.21000	9.70280	-2.22150	30.00800	28.87100
2.495	985.257	.04900	-.24570	2130.29999	125.73000	564.02000	251.27000	9.70270	-2.22200	29.97300	28.94200
2.495	1110.786	.04900	-.24570	2131.00000	125.77000	563.85000	251.20000	9.70250	-2.22260	30.18600	29.33300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D062) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 332.191 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 8/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	674.536	.04900	-.24570	2131.70001	125.81000	563.47000	251.03000	9.70240	-2.22480	34.23200	29.86600
2.495	781.558	.04900	-.24570	2131.70001	125.81000	563.71000	251.14000	9.70230	-2.22610	37.56300	29.90200
2.495	884.227	.04900	-.24570	2131.70001	125.81000	563.71000	251.14000	9.70220	-2.22660	33.73600	29.72400
2.495	966.040	.04900	-.24570	2131.70001	125.81000	563.16000	250.89000	9.70210	-2.22770	33.80600	30.00800
2.495	1082.786	.04900	-.24570	2132.39999	125.85000	563.54000	251.06000	9.70150	-2.22850	35.40200	30.39900
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D063) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 431.638 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 7/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	691.724	.04900	-.24570	2132.39999	125.85000	562.95000	250.80000	9.70130	-2.22990	29.97300	31.92600
2.495	787.714	.04900	-.24570	2132.39999	125.85000	562.78000	250.72000	9.70130	-2.23070	33.09700	31.81900
2.495	888.515	.04900	-.24570	2132.39999	125.85000	562.85000	250.75000	9.70130	-2.23180	32.21000	32.03200
2.495	977.079	.04900	-.24570	2133.10001	125.89000	562.78000	250.72000	9.70100	-2.23230	32.17400	31.96100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D064) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	986.823	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 5/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	694.010	.04900	-.24570	2135.20001	126.02000	561.10000	249.97000	9.69920	-2.24130	33.84200	36.21700
2.495	790.102	.04900	-.24570	2135.20001	126.02000	560.61000	249.76000	9.69920	-2.24200	32.24500	36.42900
2.495	890.770	.04900	-.24570	2135.20001	126.02000	560.96000	249.91000	9.69850	-2.25920	58.53400	37.10200
2.495	962.520	.04900	-.24570	2136.00000	126.06000	559.03000	249.05000	9.69870	-2.24890	68.05700	36.74800
2.495	1111.960	.04900	-.24570	2136.70001	126.10000	558.58000	248.85000	9.69870	-2.24710	33.41600	35.89800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D065) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	787.210	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 6/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	699.247	.04900	-.24570	2141.60001	126.40000	562.82000	250.74000	9.69680	-2.23520	33.45200	43.68000
2.495	784.985	.04900	-.24570	2142.29999	126.44000	562.16000	250.45000	9.69720	-2.23550	32.88400	44.03300
2.495	893.168	.04900	-.24570	2143.70001	126.52000	562.30000	250.51000	9.69470	-2.23730	36.92500	43.82200
2.495	975.072	.04900	-.24570	2143.00000	126.48000	562.37000	250.54000	9.69830	-2.23740	39.08500	43.32700
2.495	1096.897	.04900	-.24570	2143.70001	126.52000	561.44000	250.13000	9.69740	-2.23920	34.97700	41.94900
2.495	1100.750	.04900	-.24570	2133.10001	125.89000	562.71000	250.69000	9.70080	-2.23440	32.84900	33.49700
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D066) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 173.739 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 15/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.196	473.335	.78780	-.29280	2131.00000	200.55000	570.68000	290.50000	9.63930	-2.18300	32.92000	32.45800
2.196	533.142	.78780	-.29280	2131.00000	200.55000	570.68000	290.50000	9.63920	-2.18460	28.58700	32.28100
2.196	612.011	.78780	-.29280	2131.70001	200.61000	570.81000	290.57000	9.63970	-2.18360	29.44000	32.35200
2.196	692.350	.78780	-.29280	2131.70001	200.61000	570.44000	290.37000	9.63930	-2.18620	28.94200	32.38700
2.196	791.660	.78780	-.29280	2131.70001	200.61000	570.09000	290.20000	9.63890	-2.18640	29.68900	32.60000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D067) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.420 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 14/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.196	474.014	.78780	-.29280	2133.10001	200.75000	570.26000	290.29000	9.63910	-2.18790	28.51600	33.48700
2.196	539.794	.78780	-.29280	2133.10001	200.75000	569.96000	290.13000	9.63850	-2.18810	29.61800	33.31000
2.196	620.366	.78780	-.29280	2133.10001	200.75000	570.09000	290.20000	9.63870	-2.18830	29.76000	33.27400
2.196	692.092	.78780	-.29280	2133.79999	200.81000	569.68000	289.99000	9.63870	-2.19220	29.86600	33.13200
2.196	781.137	.78780	-.29280	2134.50000	200.88000	569.61000	289.96000	9.63880	-2.19650	31.67700	33.41600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D068) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 326.815 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 12/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.196	473.543	.78780	-.29280	2135.20001	200.95000	569.10000	289.69000	9.64210	-2.19730	33.73600	37.49200
2.196	539.114	.78780	-.29280	2135.20001	200.95000	568.52000	289.40000	9.64240	-2.19860	32.77800	37.49200
2.196	619.975	.78780	-.29280	2136.00000	201.01000	568.04000	289.15000	9.64180	-2.20470	34.58700	37.84600
2.196	701.069	.78780	-.29280	2136.70001	201.08000	567.49000	288.87000	9.64160	-2.20970	31.53500	37.59800
2.196	787.284	.78780	-.29280	2141.60001	201.55000	567.32000	288.79000	9.64020	-2.23070	31.85500	37.35000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D069) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 422.548 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 11/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.196	466.171	.78780	-.29280	2138.79999	201.28000	570.06000	290.18000	9.63340	-2.19460	32.24500	40.81800
2.196	527.877	.78780	-.29280	2139.50000	201.35000	569.96000	290.13000	9.63240	-2.19470	31.85500	40.60600
2.196	614.797	.78780	-.29280	2139.50000	201.35000	570.23000	290.27000	9.63290	-2.18950	32.56500	41.10100
2.196	687.255	.78780	-.29280	2139.50000	201.35000	569.00000	289.64000	9.63270	-2.19860	33.38100	40.42900
2.196	785.371	.78780	-.29280	2140.20001	201.41000	569.34000	289.82000	9.63210	-2.19740	38.23600	40.46400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D070) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	533.014	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 10/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.196	454.525	.78780	-.29280	2143.00000	201.68000	568.86000	289.57000	9.63020	-2.20040	32.81300	45.12800
2.196	533.011	.78780	-.29280	2143.00000	201.68000	568.21000	289.24000	9.62890	-2.20560	33.13200	45.37500
2.196	597.717	.78780	-.29280	2143.70001	201.75000	567.28000	288.77000	9.62820	-2.21040	33.34500	45.55100
2.196	707.150	.78780	-.29280	2145.10001	201.88000	567.11000	288.68000	9.62660	-2.21350	34.87000	45.55100
2.196	788.063	.78780	-.29280	2147.29999	202.08000	567.11000	288.68000	9.62700	-2.22270	34.87000	45.44500
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D071) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	119.218	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 22/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.799	262.393	.24500	-.14330	2124.60001	370.27000	580.79000	352.56000	9.70450	-2.09920	84.76200	28.30300
1.799	306.315	.24500	-.14330	2125.29999	370.39000	580.42000	352.33000	9.70430	-2.10050	83.96500	27.66300
1.799	369.375	.24500	-.14330	2125.29999	370.39000	580.14000	352.16000	9.70400	-2.10310	84.17300	27.41400
1.799	428.948	.24500	-.14330	2126.10001	370.52000	580.21000	352.20000	9.70410	-2.10500	84.62400	27.41400
1.799	493.852	.24500	-.14330	2126.10001	370.52000	579.77000	351.94000	9.70250	-2.10610	85.45600	27.62700
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D072) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 156.726 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 23/ 0 RN/L = 3.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.799	265.327	.24500	-.14330	2126.10001	370.52000	579.70000	351.89000	9.70300	-2.10690	83.79100	28.94200
1.799	304.270	.24500	-.14330	2126.10001	370.52000	579.39000	351.71000	9.70300	-2.10820	83.44400	29.83100
1.799	370.793	.24500	-.14330	2127.50000	370.76000	579.39000	351.71000	9.70290	-2.10830	83.96500	30.39900
1.799	427.575	.24500	-.14330	2127.50000	370.76000	579.26000	351.63000	9.70250	-2.10840	84.52000	30.68300
1.799	491.340	.24500	-.14330	2128.20001	370.89000	579.15000	351.56000	9.70210	-2.10990	85.80200	31.00300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D073) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 200.661 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 24/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.799	265.751	.24500	-.14330	2128.89999	371.01000	578.74000	351.31000	9.70120	-2.11090	85.62900	34.26700
1.799	305.495	.24500	-.14330	2128.89999	371.01000	578.85000	351.38000	9.70160	-2.11270	85.07400	34.55100
1.799	367.630	.24500	-.14330	2129.60001	371.13000	579.46000	351.75000	9.70100	-2.11250	85.52500	34.62200
1.799	430.163	.24500	-.14330	2128.89999	371.01000	578.95000	351.44000	9.70040	-2.11430	86.21800	34.76400
1.799	493.187	.24500	-.14330	2129.60001	371.13000	578.92000	351.42000	9.70090	-2.11240	87.36100	35.18900
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D074) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SREPR =	268.756	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 25/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.799	270.139	.24500	-.14330	2131.00000	371.38000	578.71000	351.29000	9.70000	-2.11290	88.19200	40.11100
1.799	308.321	.24500	-.14330	2132.39999	371.63000	578.95000	351.44000	9.69900	-2.11390	87.95000	40.60600
1.799	429.540	.24500	-.14330	2133.10001	371.75000	578.71000	351.29000	9.69790	-2.11640	88.29600	41.20700
1.799	493.833	.24500	-.14330	2133.79999	371.87000	578.54000	351.19000	9.69770	-2.11560	88.81500	41.45400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D075) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SREPR =	246.024	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 26/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.799	-5.022	.24500	-.14330	2123.20001	370.02000	577.79000	350.73000	9.70420	-2.11510	92.61900	55.69100
1.799	267.524	.24500	-.14330	2134.50000	371.99000	578.33000	351.07000	9.69920	-2.11480	87.01500	43.99800
1.799	304.918	.24500	-.14330	2134.50000	371.99000	578.51000	351.17000	9.69760	-2.11540	87.08400	44.13900
1.799	368.635	.24500	-.14330	2134.50000	371.99000	578.44000	351.13000	9.69650	-2.11770	87.36100	44.28100
1.799	427.720	.24500	-.14330	2135.20001	372.12000	578.57000	351.21000	9.69710	-2.11690	88.01900	44.42200
1.799	495.808	.24500	-.14330	2136.70001	372.36000	578.13000	350.94000	9.69620	-2.11650	88.12300	44.70400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D076) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 81.454 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 17/ 0 RN/L = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.550	-.028	.26080	-.18280	2136.70001	541.16000	579.77000	391.61000	9.87990	-2.13350	85.73300	41.27800
1.550	234.438	.25410	-.18350	2131.00000	539.72000	574.13000	387.80000	9.87780	-2.16550	77.46900	26.24000
1.550	269.335	.25410	-.18350	2131.00000	539.72000	575.67000	388.84000	9.87700	-2.16060	78.19900	26.27500
1.550	306.756	.26080	-.18280	2133.10001	540.26000	576.90000	389.67000	9.87580	-2.15240	80.25000	27.27100
1.550	344.734	.25940	-.18290	2131.00000	539.72000	578.23000	390.57000	9.87550	-2.14120	82.75000	28.44500
	396.657	.25940	-.18290	2132.39999	540.08000	579.56000	391.47000	9.87630	-2.13620	84.90100	29.19100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D077) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 120.674 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 18/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.550	236.120	.25940	-.18290	2131.70001	539.90000	581.68000	392.90000	9.87740	-2.12310	87.74200	31.21600
1.550	270.597	.26080	-.18280	2132.39999	540.08000	582.39000	393.38000	9.87560	-2.11990	87.18800	31.53500
1.550	307.498	.26080	-.18280	2132.39999	540.08000	582.39000	393.38000	9.87650	-2.12000	87.70700	31.60600
1.550	340.713	.26080	-.18280	2133.10001	540.26000	583.59000	394.19000	9.87550	-2.11120	89.12700	31.74800
1.550	397.836	.26080	-.18280	2135.20001	540.80000	583.76000	394.30000	9.87440	-2.11330	90.16400	31.71300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D079) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 153.981 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 19/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.550	238.473	.26080	-.18280	2136.00000	540.98000	584.44000	394.76000	9.87320	-2.10510	89.33400	34.79900
1.550	270.308	.26080	-.18280	2136.00000	540.98000	584.33000	394.69000	9.87340	-2.10560	88.71100	34.87000
1.550	306.727	.26080	-.18280	2136.70001	541.16000	585.29000	395.33000	9.87380	-2.10250	89.26500	34.30300
1.550	342.272	.26080	-.18280	2131.70001	539.90000	585.05000	395.17000	9.87300	-2.10150	89.81900	34.12600
1.550	395.886	.26080	-.18280	2133.10001	540.26000	586.90000	395.75000	9.87280	-2.09810	91.09800	33.94800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D079) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.234 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 20/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.550	237.165	.26080	-.18280	2133.79999	540.44000	586.38000	396.07000	9.87230	-2.09570	89.99200	37.03200
1.550	268.463	.26080	-.18280	2134.50000	540.62000	586.07000	395.86000	9.87110	-2.09680	89.61100	37.66900
1.550	306.083	.26080	-.18280	2136.00000	540.98000	586.55000	396.19000	9.86990	-2.09480	89.95700	37.52700
1.550	344.254	.26080	-.18280	2136.00000	540.98000	586.34000	396.05000	9.87030	-2.09430	90.82200	37.42100
1.550	396.561	.26080	-.18280	2136.70001	541.16000	587.09000	396.55000	9.86860	-2.09160	91.58200	37.52700
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D080) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 236.910 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 21/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
1.550	236.805	.26050	-.18280	2138.10001	541.14000	587.19000	396.54000	9.86680	-2.09020	92.41100	40.99500
1.550	266.814	.26080	-.18280	2138.79999	541.70000	587.33000	396.71000	9.86650	-2.08710	92.75700	41.84300
1.550	307.553	.26080	-.18280	2140.89999	542.23000	587.43000	396.78000	9.86360	-2.08940	93.31000	42.40900
1.550	341.146	.26050	-.18280	2140.89999	541.86000	587.91000	397.02000	9.86390	-2.08700	93.79300	42.69100
	397.808	.26050	-.18280	2142.29999	542.21000	588.31000	397.30000	9.86220	-2.08370	95.69100	43.36200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D081) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1189.695 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 29/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	247.091	.02580	-.08270	2127.50000	125.56000	563.19000	250.91000	9.70140	-2.22450	72.34900	34.94100
2.495	334.809	.02580	-.08270	2128.20001	125.60000	563.06000	250.85000	9.70080	-2.22390	72.87200	36.71300
2.495	431.493	.02580	-.08270	2129.60001	125.69000	562.82000	250.74000	9.70000	-2.22280	73.46500	39.15600
2.495	588.064	.02580	-.08270	2131.70001	125.81000	563.09000	250.86000	9.69870	-2.22090	73.95300	42.40900
2.495	853.624	.02580	-.08270	2136.70001	126.10000	563.68000	251.12000	9.69900	-2.21650	74.96300	45.79800
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D082) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1286.983 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 30/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.495	248.696	.02580	-.08270	2127.50000	125.56000	563.16000	250.89000	9.70110	-2.22660	72.48900	35.15400
2.495	335.497	.02580	-.08270	2128.20001	125.60000	563.26000	250.94000	9.70110	-2.22570	72.73300	36.67700
2.495	431.264	.02580	-.08270	2129.60001	125.69000	563.40000	251.00000	9.70010	-2.22540	72.94200	38.73100
2.495	588.751	.02580	-.08270	2131.70001	125.81000	563.81000	251.18000	9.69890	-2.22560	73.22100	42.05500
2.495	853.396	.02580	-.08270	2136.70001	126.10000	562.82000	250.74000	9.69890	-2.22560	73.01200	43.08000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D083) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 892.658 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 27/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.195	171.937	.76730	-.12990	2127.50000	200.37000	569.10000	289.76000	9.63790	-2.19510	80.00700	34.76400
2.195	246.292	.76730	-.12990	2128.20001	200.44000	569.20000	289.81000	9.63790	-2.19300	81.15300	36.50000
2.195	332.042	.76730	-.12990	2131.00000	200.70000	569.24000	289.83000	9.63580	-2.19160	81.88300	38.76600
2.195	421.144	.76730	-.12990	2133.10001	200.90000	570.02000	290.23000	9.63490	-2.18770	82.82000	41.17200
2.195	532.514	.76730	-.12990	2136.00000	201.17000	570.20000	290.32000	9.63110	-2.16750	85.04000	41.84300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D084) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 988.268 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 28/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.195	173.747	.76730	-.12990	2128.20001	200.44000	567.73000	289.06000	9.63780	-2.20230	80.52800	36.11100
2.195	242.620	.76730	-.12990	2128.89999	200.50000	568.07000	289.24000	9.63720	-2.20240	80.63200	37.45700
2.195	328.599	.76730	-.12990	2131.00000	200.70000	568.52000	289.46000	9.63610	-2.20190	81.01400	40.21700
2.195	420.578	.76730	-.12990	2134.50000	201.04000	568.38000	289.39000	9.63390	-2.20170	81.15300	42.62100
2.195	529.047	.76730	-.12990	2136.70001	201.24000	568.58000	289.50000	9.63040	-2.20050	80.98000	42.37300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D086) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 804.690 ALPHA = .000
BETA = .000 ELV-IB = .000
ELV-OB = -2.000

RUN NO. 215/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.195	459.491	.64970	-.14200	2133.10001	200.90000	567.66000	289.03000	-.03870	-2.15320	76.63400	36.11100
2.195	459.921	.65100	-.14190	2133.10001	200.90000	567.83000	289.11000	-.03760	-2.13690	76.28600	36.28800
2.195	462.478	.64970	-.14200	2134.50000	201.04000	568.41000	289.41000	-.03820	-2.15590	77.99100	35.93300
2.195	463.612	.64970	-.14200	2135.20001	201.10000	567.97000	289.18000	-.03920	-2.15460	78.03400	35.82700
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D087) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	498.342	ALPHA =	.000
BETA =	.000	ELV-IB =	.000
ELV-OB =	-2.000		

RUN NO. 216/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	ALPHA	BETA	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
2.195	863.720	.64970	-.14200	2141.60001	201.70000	566.53000	288.45000	-.04050	-2.16990	75.17200	33.23900
2.195	864.434	.64970	-.14200	2137.39999	201.30000	567.28000	288.83000	-.04310	-2.16650	78.13000	37.74000
2.195	867.441	.64970	-.14200	2134.50000	201.04000	565.81000	288.08000	-.03820	-2.17160	72.73300	30.29300
2.195	871.288	.64970	-.14200	2140.20001	201.57000	567.62000	289.01000	-.04710	-2.16380	80.35400	42.16100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (S3D089) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	1.550	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 154/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	MACH	PT	P	TTR	TR	ELVI	ELVO	TORB	TSRB
-4.373	-6.160	1.55000	2133.10001	540.26000	574.17000	387.82000	4.48090	-4.95740	87.91500	41.80800
-4.473	-4.140	1.55000	2133.10001	540.26000	575.26000	388.56000	4.38390	-5.03140	88.74600	41.73700
-4.509	.114	1.55000	2133.79999	540.44000	576.08000	389.12000	4.19740	-5.10180	88.60800	41.63100
-4.299	4.278	1.55000	2134.50000	540.62000	577.14000	389.83000	4.02150	-5.13590	89.26500	41.49000
-4.226	6.291	1.55000	2133.79999	540.44000	577.89000	390.34000	3.96500	-5.13890	89.78400	41.41900
	GRADIENT	.00000	.16632	.04277	.22324	.15081	-.04306	-.01243	.06132	-.02933

IA138 AMES 246-1-97 OTS POWER OFF (T3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 31/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.101	-7.815	10.00000	-2.00000	.15380	.09350	.29142	.02601	-.87858	-.24112
-4.092	-5.842	10.00000	-2.00000	.06400	-.01750	.07840	.02601	-.71887	-.08136
-4.073	-3.857	10.00000	-2.00000	-.01860	-.06450	.07838	-.02722	-.61219	-.08133
-3.988	.039	10.00000	-2.00000	-.16880	-.12260	.07840	-.02723	-.29297	-.08136
-3.980	3.902	10.00000	-2.00000	-.30020	-.14350	-.29428	-.24012	-.18644	-.18781
	GRADIENT	-.00000	.00000	-.03630	-.01019	-.04796	-.02740	.05491	-.01370

RUN NO. 32/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.217	-7.784	10.00000	-2.00000	.18430	.34530	-.66738	-.66636	.55900	-.40102
-.192	-5.815	10.00000	-2.00000	.12380	.19920	-.82692	-.82587	.77176	-.34763
-.174	-3.808	10.00000	-2.00000	.03860	.03750	-.88047	-.77288	1.14480	-.34775
-.219	.158	10.00000	-2.00000	-.08800	-.07680	-1.09356	-1.09244	1.25130	-.40102
-.135	4.253	10.00000	-2.00000	-.21450	-.11720	-1.41319	-1.14570	1.94361	-.50756
	GRADIENT	-.00000	.00000	-.03139	-.01914	-.06615	-.04607	.09947	-.01986

RUN NO. 33/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.632	-7.853	10.00000	-2.00000	.21190	.51220	-1.62628	-1.46526	2.36965	-.66738
3.671	-5.874	10.00000	-2.00000	.16410	.40560	-1.57405	-1.41294	2.63767	-.66782
3.676	-3.871	10.00000	-2.00000	.10920	.27570	-1.73282	-1.51852	2.52941	-.66738
3.624	.053	10.00000	-2.00000	.01220	.01030	-1.83937	-1.57179	2.74243	-.72065
3.633	3.908	10.00000	-2.00000	-.05890	-.08150	-1.83997	-1.57231	3.06297	-.66760
	GRADIENT	.00000	.00000	-.02162	-.04598	-.01381	-.00693	.06854	-.00007

IA138 AMES 246-1-97 OTS POWER OFF (T3D002) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-2.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 43/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.082	-5.933	10.00000	-2.00000	-.14570	.03570	-4.55845	-3.54388	8.29176	-.58630
-4.072	-3.879	10.00000	-2.00000	-.19370	-.03550	-4.40268	-3.77748	8.75891	-.66419
-3.989	.021	10.00000	-2.00000	-.30850	-.14880	-4.55845	-3.54388	8.60319	-.58630
-3.982	3.883	10.00000	-2.00000	-.43120	-.20070	-4.55693	-3.69838	8.21116	-.74182
-4.006	5.880	10.00000	-2.00000	-.48830	-.17940	-4.63633	-3.77748	8.60319	-.81996
	GRADIENT	-.00000	.00000	-.03060	-.02130	-.01980	.01027	-.07052	-.00995

RUN NO. 42/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.190	-5.839	10.00000	-2.00000	-.07380	.07150	-4.40121	-3.54270	8.21116	-.43039
-.173	-3.629	10.00000	-2.00000	-.13030	-.01310	-4.32335	-3.77622	8.36683	-.35253
-.161	.132	10.00000	-2.00000	-.25670	-.08380	-4.47907	-3.54270	8.13333	-.81968
-.108	4.234	10.00000	-2.00000	-.33340	-.18910	-4.47907	-3.62054	8.21116	-.58610
-.094	6.226	10.00000	-2.00000	-.39190	-.21830	-4.55845	-3.54388	8.29176	-.66419
	GRADIENT	-.00000	.00000	-.02515	-.02185	-.01920	.01908	-.01908	-.02846

RUN NO. 41/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.710	-5.890	10.00000	-2.00000	.03710	.14340	4.00626	5.09606	8.20843	-.66374
3.715	-3.888	10.00000	-2.00000	.00780	.06390	-4.55693	-3.30917	8.44466	-.43039
3.663	.039	10.00000	-2.00000	-.11930	-.05440	-4.40268	-3.46601	8.29176	-.66419
3.673	3.887	10.00000	-2.00000	-.20510	-.12050	-4.32479	-3.31027	8.21390	-.74207
3.703	5.861	10.00000	-2.00000	-.22980	-.15460	-4.39974	-3.54152	8.28624	-.58591
	GRADIENT	-.00000	.00000	-.02740	-.02374	.02989	-.00028	-.02971	-.04016

IA138 AMES 246-1-97 OTS POWER OFF (T3D003) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-2.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 49/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.080	-5.344	10.00000	-2.00000	-.27230	-.09970	-5.97816	-3.67170	10.43284	-.21993
-4.064	-3.360	10.00000	-2.00000	-.32250	-.14140	-5.69214	-3.96086	9.71654	-.22000
-3.965	.543	10.00000	-2.00000	-.42350	-.19910	-5.83420	-3.67170	9.85721	.35590
-3.970	4.407	10.00000	-2.00000	-.47610	-.22570	-5.54629	-3.95954	10.14503	.06798
-3.989	6.403	10.00000	-2.00000	-.52060	-.21580	-5.25838	-3.38385	9.71330	.21194
	GRADIENT	-.00000	.00000	-.01979	-.01086	.01869	.00030	.05514	.03727

RUN NO. 48/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.177	-5.316	10.00000	-2.00000	-.16810	-.07300	-6.26815	-4.10483	11.44401	-.36400
-.161	-3.308	10.00000	-2.00000	-.21100	-.11830	-5.97816	-4.10347	11.00847	.06798
-.151	.661	10.00000	-2.00000	-.31750	-.18240	-6.12211	-4.10347	10.86456	.06798
-.097	4.759	10.00000	-2.00000	-.38550	-.22090	-6.12211	-4.10347	10.14503	.06798
-.083	6.750	10.00000	-2.00000	-.41260	-.21440	-5.54444	-3.81435	10.71709	-.07595
	GRADIENT	-.00000	.00000	-.02160	-.01270	-.01775	.00000	-.10741	-.00000

RUN NO. 47/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.727	-5.371	10.00000	-2.00000	-.02620	-.07650	-7.12980	-4.96701	13.88663	-.21993
3.731	-3.366	10.00000	-2.00000	-.07670	-.10470	-7.12980	-4.82309	12.73536	-.50784
3.681	.562	10.00000	-2.00000	-.19230	-.15680	-6.84189	-4.39131	12.15973	-.21993
3.684	4.407	10.00000	-2.00000	-.28570	-.18450	-6.40789	-4.53373	11.00481	-.07595
3.712	6.388	10.00000	-2.00000	-.29330	-.16640	-6.55398	-4.24739	12.59146	.49985
	GRADIENT	-.00000	.00000	-.02690	-.01028	.09280	.03748	-.22236	.05563

IA138 AMES 246-1-97 OTS POWER OFF (T3D004) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 50/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.024	-6.085	10.00000	-2.00000	-.25660	-.12100	-7.92768	-6.13755	15.27931	.10538
-4.011	-4.102	10.00000	-2.00000	-.28820	-.15030	-8.79334	-5.82127	16.08438	.56425
-3.918	-.196	10.00000	-2.00000	-.35760	-.18710	-8.86666	-6.32999	13.68784	.33882
-3.926	3.662	10.00000	-2.00000	-.42440	-.19550	-8.64229	-5.87373	14.38763	.33905
-3.946	5.656	10.00000	-2.00000	-.43950	-.18660	-8.40078	-6.32577	14.13853	.56858
	GRADIENT	.00000	.00000	-.01754	-.00583	.01938	-.00701	-.21937	-.02907

RUN NO. 51/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.129	-6.060	10.00000	-2.00000	-.14440	-.11330	-8.39798	-5.63409	12.98467	.79830
-.112	-4.050	10.00000	-2.00000	-.18240	-.14400	-7.70826	-6.55351	12.98467	.56839
-.103	-.081	10.00000	-2.00000	-.25930	-.18800	-7.70826	-6.55351	12.06535	.33848
-.048	4.017	10.00000	-2.00000	-.32430	-.19960	-7.93817	-5.40424	12.98467	1.02820
-.035	6.007	10.00000	-2.00000	-.34320	-.18860	-8.39798	-5.40424	13.44433	.10858
	GRADIENT	-.00000	.00000	-.01758	-.00687	-.02865	.14322	.00122	.05761

RUN NO. 52/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.772	-6.116	10.00000	-2.00000	-.03000	-.10720	-7.70569	-5.40244	13.21010	.56820
3.779	-4.112	10.00000	-2.00000	-.05800	-.13500	-7.24845	-5.17438	13.44433	1.02820
3.730	-.181	10.00000	-2.00000	-.13760	-.16430	-7.01854	-4.71467	14.36365	1.25811
3.734	3.666	10.00000	-2.00000	-.21000	-.19130	-7.01854	-4.25496	12.75484	1.25811
3.763	5.642	10.00000	-2.00000	-.24130	-.18230	-7.25086	-4.71624	11.37965	.79856
	GRADIENT	-.00000	.00000	-.01955	-.00724	.02967	.11821	-.08745	.02967

IA138 AMES 246-1-97 OTS POWER OFF (T3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.8800 IN. XQ
LREF = 474.8100 INCHES YMRP = .0000 IN. YQ
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZQ
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 58/ 0 RN/L = 3.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.080	-5.831	10.00000	-5.00000	-.14320	.00770	.80779	.57587	-3.53211	.34399
-4.073	-3.878	10.00000	-5.00000	-.19560	-.03440	.65258	.49821	-3.29853	.26642
-3.992	.025	10.00000	-5.00000	-.33210	-.14080	.65301	.34351	-3.37824	.34410
-3.986	3.888	10.00000	-5.00000	-.46220	-.20080	.49790	.26591	-3.37712	.34399
-4.005	5.884	10.00000	-5.00000	-.52290	-.18690	.57530	.26591	-3.29962	.18903
	GRADIENT	-.00000	.00000	-.03433	-.02144	-.01990	-.02993	-.01014	.01001

RUN NO. 59/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.209	-6.221	10.00000	-5.00000	-.07500	.19240	.57548	.18848	-2.91309	.18909
-.215	-4.281	10.00000	-5.00000	-.13620	.06660	.49813	.18854	-3.06916	.03408
-.199	-.249	10.00000	-5.00000	-.26150	-.06380	.34280	-.19903	-3.29962	-.04342
-.171	3.789	10.00000	-5.00000	-.35610	-.16280	.26539	-.19910	-3.06814	.03407
-.155	5.801	10.00000	-5.00000	-.41750	-.19990	.11034	-.35413	-3.14566	-.04343
	GRADIENT	.00000	.00000	-.02725	-.02842	-.02884	-.04802	.00014	.00000

RUN NO. 60/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.893	-6.217	10.00000	-5.00000	.03430	.26730	.11034	-.50916	-2.99062	-.04343
3.988	-4.244	10.00000	-5.00000	-.01710	.16630	.03281	-.74146	-2.91213	-.12090
4.103	-.036	10.00000	-5.00000	-.13010	-.01800	-.04469	-.58648	-2.83463	-.12090
4.018	4.143	10.00000	-5.00000	-.22960	-.10200	-.12223	-.50916	-2.91309	-.19845
3.984	6.172	10.00000	-5.00000	-.26110	-.13370	-.19969	-.66397	-2.60214	-.19838
	GRADIENT	-.00000	.00000	-.02534	-.03201	-.01849	.02771	-.00008	-.00924

IA138 AMES 246-1-97 OTS POWER OFF (T30006) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	-5.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 69/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.073	-5.309	10.00000	-5.00000	-.31520	-.04330	-2.37602	-2.51790	-1.37268	-.51021
-4.062	-3.357	10.00000	-5.00000	-.36840	-.10490	-2.51852	-2.94688	-1.37222	-.36679
-3.977	.544	10.00000	-5.00000	-.46790	-.17200	-2.51936	-2.94786	-1.65935	-.79682
-3.970	4.412	10.00000	-5.00000	-.52110	-.20420	-2.23269	-2.66122	-1.08601	-.36691
-3.988	6.404	10.00000	-5.00000	-.56340	-.19920	-2.37523	-2.37380	-1.22893	-.36679
	GRADIENT	.00000	-.00000	-.01967	-.01278	.03674	.03672	.03668	-.00018

RUN NO. 68/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.200	-5.699	10.00000	-5.00000	-.19020	-.03440	-2.66269	-2.80454	-.94267	-.22361
-.205	-3.761	10.00000	-5.00000	-.24050	-.09220	-2.37602	-2.66122	-1.22934	-.36691
-.188	.276	10.00000	-5.00000	-.35210	-.15320	-2.51852	-2.80361	-1.37222	-.36679
-.160	4.311	10.00000	-5.00000	-.42140	-.20400	-2.37523	-2.51707	-1.22893	-.51004
-.143	6.320	10.00000	-5.00000	-.44680	-.19520	-2.37445	-2.51623	-1.22853	-.36667
	GRADIENT	-.00000	.00000	-.02241	-.01385	.00010	.01786	.00005	-.01773

RUN NO. 67/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.900	-5.695	10.00000	-5.00000	-.03080	-.04340	-3.09167	-3.23343	-1.08565	-.93981
3.994	-3.720	10.00000	-5.00000	-.08730	-.07250	-3.37825	-3.09016	-.94236	-.51004
4.111	.484	10.00000	-5.00000	-.21600	-.13120	-3.09167	-2.80361	-1.37222	-.65330
4.022	4.663	10.00000	-5.00000	-.32570	-.16960	-2.94936	-2.80454	-1.08601	-.36691
3.989	6.696	10.00000	-5.00000	-.32820	-.16070	-2.66181	-2.66034	-.94236	-.36679
	GRADIENT	-.00000	.00000	-.02844	-.01158	.05117	.03410	-.01722	.01702

IAI3C AMES 246-1-97 OTS POWER OFF (T3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 70/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.018	-6.052	10.00000	-5.00000	-.28310	-.11550	-4.71815	-4.94502	-2.19590	-.81620
-4.011	-4.100	10.00000	-5.00000	-.32050	-.14260	-4.25956	-4.48648	-1.04942	-.81620
-3.929	-.200	10.00000	-5.00000	-.39530	-.17360	-4.46808	-4.69393	-1.95750	-1.04060
-3.925	3.668	10.00000	-5.00000	-.46440	-.18750	-4.02359	-4.70793	-1.73442	-.81485
-3.947	5.660	10.00000	-5.00000	-.48030	-.17390	-4.24828	-4.47459	-2.19008	-.58540
	GRADIENT	-.00000	.00000	-.01853	-.00578	.03026	-.02855	-.08840	.00009

RUN NO. 71/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.150	-6.442	10.00000	-5.00000	-.16510	-.09480	-4.01959	-4.70326	-1.96139	-1.04267
-.156	-4.504	10.00000	-5.00000	-.20210	-.12630	-4.01959	-4.70326	-1.50401	-1.04267
-.137	-.473	10.00000	-5.00000	-.28840	-.16880	-4.01959	-4.47459	-1.50401	-.35676
-.111	3.566	10.00000	-5.00000	-.35720	-.19010	-4.47696	-4.70326	-1.73270	-.35676
-.095	5.577	10.00000	-5.00000	-.38480	-.18340	-3.79215	-4.24734	-1.27575	-.12817
	GRADIENT	.00000	.00000	-.01922	-.00791	-.05670	-.00002	-.02835	.08498

RUN NO. 72/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.746	-6.091	10.00000	-5.00000	-.05900	-.08020	-3.79215	-4.01860	-1.73327	-.58559
3.777	-4.109	10.00000	-5.00000	-.08590	-.11060	-3.56221	-4.24593	-2.41877	-.81404
3.725	-.180	10.00000	-5.00000	-.17370	-.15000	-3.79215	-4.24734	-1.73327	-.35688
3.734	3.671	10.00000	-5.00000	-.25160	-.17730	-3.56221	-3.78860	-1.50401	-.12812
3.764	5.647	10.00000	-5.00000	-.28150	-.17920	-3.10483	-4.01727	-2.19008	-.58540
	GRADIENT	-.00000	.00000	-.02130	-.00858	-.00020	.05859	.11777	.08826

IA138 AMES 246-1-97 OTS POWER OFF (T3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 77/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.317	-8.161	10.00000	-7.00000	.16350	.39990	-.08533	.12699	-.24844	-.17946
-4.410	-6.189	10.00000	-7.00000	.06960	.27410	-.24512	-.03290	-.19504	.12611
-4.470	-4.144	10.00000	-7.00000	-.01790	.15860	-.19191	-.03291	-.08844	.07284
-4.511	.110	10.00000	-7.00000	-.18930	.02130	-.29859	-.19289	-.14182	.01953
-4.297	4.274	10.00000	-7.00000	-.33800	-.03030	-.35189	-.19289	.01823	-.14047
	GRADIENT	.00000	-.00000	-.03803	-.02248	-.01903	-.01907	.01258	-.02529

RUN NO. 78/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.245	-7.790	10.00000	-7.00000	.17650	.62050	-.56494	-.40603	.07155	-.14042
-.218	-5.821	10.00000	-7.00000	.11440	.46740	-.61823	-.45933	.33821	-.24705
-.202	-3.813	10.00000	-7.00000	.03700	.29720	-.61823	-.45933	.44488	-.19373
-.205	.151	10.00000	-7.00000	-.10240	.06130	-.67152	-.45933	.55154	-.19373
-.193	4.253	10.00000	-7.00000	-.22570	-.01460	-.77836	-.56612	-6.22363	-.24713
	GRADIENT	-.00000	-.00000	-.03255	-.03854	-.01989	-.01331	-.83147	-.00666

RUN NO. 79/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.775	-8.201	10.00000	-7.00000	.22020	.81910	-.93797	-.77914	.92486	-.40699
3.855	-6.249	10.00000	-7.00000	.16840	.70880	-1.09820	-.83272	.92517	-.51378
3.943	-4.229	10.00000	-7.00000	.09240	.59270	-1.15227	-.88663	1.03255	-.46076
4.062	-.022	10.00000	-7.00000	.01000	.27680	-1.09856	-.99301	1.29904	-.51395
3.978	4.159	10.00000	-7.00000	-.06950	.07070	-1.20522	-.99301	1.56587	-.46061
	GRADIENT	.00000	-.00000	-.01930	-.06224	-.00629	-.01270	.06358	.00000

IA138 AMES 246-1-97 OTS POWER OFF (T3D009) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 88/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.329	-6.183	10.00000	-7.00000	-.14820	.25510	-5.31644	-4.31120	8.48035	-1.28966
-4.431	-4.163	10.00000	-7.00000	-.20600	.14780	-5.39215	-4.38726	8.71014	-1.36674
-4.469	.092	10.00000	-7.00000	-.33170	-.04710	-5.39215	-4.23229	8.71014	-1.36674
-4.259	4.257	10.00000	-7.00000	-.47270	-.09690	-5.31644	-4.31120	8.86814	-1.28966
-4.186	6.273	10.00000	-7.00000	-.52480	-.06660	-5.31644	-4.31120	8.63547	-1.52226
	GRADIENT	.00000	-.00000	-.03167	-.02912	.00896	.00913	.01870	.00912

RUN NO. 87/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.187	-5.803	10.00000	-7.00000	-.10610	.32280	-5.15803	-4.07595	8.31972	-1.28880
-.160	-3.828	10.00000	-7.00000	-.15250	.19270	-5.15974	-4.07730	8.32248	-1.21172
-.165	.135	10.00000	-7.00000	-.27310	.02950	-5.23721	-4.30977	8.24494	-1.44424
-.105	4.236	10.00000	-7.00000	-.35780	-.09200	-5.23721	-4.30977	8.24494	-1.44424
-.092	6.226	10.00000	-7.00000	-.42100	-.11950	-5.23895	-4.15617	8.32524	-1.36719
	GRADIENT	-.00000	.00000	-.02543	-.03527	-.00955	-.02866	-.00956	-.02867

RUN NO. 86/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.891	-6.224	10.00000	-7.00000	.02880	.35360	-5.15291	-4.14929	8.38889	-1.36493
3.987	-4.245	10.00000	-7.00000	-.00630	.26090	-5.23374	-4.15204	8.23948	-1.28838
4.106	-.037	10.00000	-7.00000	-.12630	.07610	-5.23548	-4.15342	8.31972	-1.21132
4.017	4.143	10.00000	-7.00000	-.22420	-.04590	-5.15803	-4.15342	8.39723	-1.21132
3.984	6.177	10.00000	-7.00000	-.24940	-.07040	-5.31292	-4.15342	8.24221	-1.28880
	GRADIENT	.00000	-.00000	-.02598	-.03659	.00902	-.00016	.01881	.00920

IA138 AMES 246-1-97 OTS POWER OFF (T3D010) (19 OCT 78)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6800 IN. XQ
LREF = 474.8100 INCHES YMRP = .0000 IN. YQ
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZQ
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 89/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.320	-5.658	10.00000	-7.00000	-.28850	-.04600	-9.96100	-7.81836	16.37682	-2.23844
-4.420	-3.639	10.00000	-7.00000	-.34400	-.07960	-10.12420	-7.97734	16.26587	-2.24289
-4.454	.614	10.00000	-7.00000	-.45130	-.14290	-9.68759	-7.54204	16.39851	-2.38477
-4.242	4.779	10.00000	-7.00000	-.50890	-.16180	-9.83415	-7.68792	16.26048	-2.38556
-4.168	6.796	10.00000	-7.00000	-.54910	-.13620	-9.98080	-7.83391	16.26587	-2.09942
	GRADIENT	-.00000	.00000	-.01961	-.00978	.03469	.03462	-.00053	-.01700

RUN NO. 90/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.205	-5.707	10.00000	-7.00000	-.18050	-.00570	-9.55061	-7.40361	16.83992	-2.24289
-.214	-3.772	10.00000	-7.00000	-.22560	-.04370	-9.40410	-7.25777	16.40395	-2.38556
-.191	.261	10.00000	-7.00000	-.33540	-.11170	-9.55378	-7.26258	15.84059	-2.10012
-.163	4.306	10.00000	-7.00000	-.40390	-.15520	-9.55378	-7.11910	15.98415	-1.81310
	GRADIENT	-.00000	.00000	-.02207	-.01380	-.01852	.01717	-.05183	.07087

RUN NO. 91/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.905	-5.700	10.00000	-7.00000	-.02360	.07150	-9.12344	-6.97562	15.40991	-1.95661
4.002	-3.727	10.00000	-7.00000	-.07610	-.00300	-9.12646	-7.12147	15.41502	-1.95726
4.119	.481	10.00000	-7.00000	-.19930	-.07340	-9.26689	-7.11910	15.26635	-2.10012
4.026	4.663	10.00000	-7.00000	-.30690	-.11440	-9.41345	-7.12147	15.55863	-1.95726
3.993	6.692	10.00000	-7.00000	-.30700	-.10280	-9.12344	-7.11910	15.26635	-1.95661
	GRADIENT	-.00000	.00000	-.02751	-.01328	-.03421	.00000	.01706	-.00004

IA138 AMES 24G-1-97 OTS POWER OFF (T3D011) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	10.000	ELV-OB =	2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 229/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.264	-6.397	10.00000	2.00000	-.26820	-.18070	.79709	1.50632	-9.70441	-.10559
-4.368	-4.375	10.00000	2.00000	-.31040	-.18870	1.25406	1.96258	-10.38964	-.33392
-4.404	-.124	10.00000	2.00000	-.39920	-.22420	.56860	1.50632	-11.07487	-.33392
-4.198	4.037	10.00000	2.00000	-.46170	-.24130	.34024	1.05041	-9.83611	-.33403
-4.126	6.050	10.00000	2.00000	-.48270	-.24200	.34012	1.50632	-10.38964	-.33392
	GRADIENT	.00000	.00000	-.01800	-.00626	-.10882	-.10843	.05314	-.00001

RUN NO. 228/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.149	-6.439	10.00000	2.00000	-.14950	-.14010	-1.03216	.36615	-6.97273	-.79164
-.156	-4.496	10.00000	2.00000	-.19350	-.16020	-.80337	.13772	-6.97273	-.56300
-.140	-.463	10.00000	2.00000	-.28380	-.20130	-1.49023	.13777	-7.43262	-.33447
-.112	3.572	10.00000	2.00000	-.35090	-.23220	-.80337	.82302	-8.34501	-.56300
-.095	5.578	10.00000	2.00000	-.38080	-.21430	-.34579	1.05146	-8.11630	-.56300
	GRADIENT	.00000	.00000	-.01951	-.00892	.00002	.08495	-.17009	-.00001

RUN NO. 227/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.882	-6.439	10.00000	2.00000	-.03280	-.15010	-2.40091	-.77473	-5.59119	-1.01858
3.977	-4.460	10.00000	2.00000	-.06160	-.17020	-2.17610	-.31915	-6.28660	-1.24891
4.101	-.255	10.00000	2.00000	-.15200	-.19230	-1.94796	-.09074	-6.51747	-1.24532
4.014	3.925	10.00000	2.00000	-.23820	-.22620	-1.03216	.36615	-6.74402	-1.02027
3.981	5.952	10.00000	2.00000	-.27220	-.22360	-1.94860	-.09077	-7.20623	-1.02095
	GRADIENT	.00000	.00000	-.02106	-.00668	.13535	.08170	-.05455	.02724

IA138 AMES 246-1-97 OTS POWER OFF (T3D012) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.6100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-2.000
MACH =	1.550	SRSPR =	.000
SSMEPR =	.000		

RUN NO. 101/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.315	-8.151	12.00000	-2.00000	.00420	.07980	-1.35568	-1.51601	2.31716	-.61230
-4.407	-6.183	12.00000	-2.00000	-.07890	-.04110	-1.46168	-1.51551	2.42290	-.71859
-4.468	-4.136	12.00000	-2.00000	-.17150	-.10070	-1.56917	-1.62304	2.63767	-.55922
-4.503	.113	12.00000	-2.00000	-.34140	-.15860	-1.62189	-1.72901	2.74334	-.61230
-4.296	4.272	12.00000	-2.00000	-.45910	-.18830	-1.62136	-1.56874	2.79568	-.66534
-4.220	6.289	12.00000	-2.00000	-.49530	-.17980	-1.78221	-1.78285	2.85082	-.77235
	GRADIENT	.00000	.00000	-.03422	-.01043	-.00623	.00634	.01881	-.01262

RUN NO. 100/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.265	-8.168	12.00000	-2.00000	.04340	.25300	-1.08911	-1.24936	1.19805	-.50560
-.270	-6.243	12.00000	-2.00000	-.01110	.13130	-1.08911	-1.08966	1.35781	-.61209
-.258	-4.260	12.00000	-2.00000	-.10040	-.02100	-1.14233	-1.24936	1.46432	-.61209
-.240	-.227	12.00000	-2.00000	-.23780	-.14820	-1.19595	-1.24977	1.57135	-.66556
-.212	3.807	12.00000	-2.00000	-.35100	-.18830	-1.14233	-1.24936	1.78385	-.66534
-.195	5.817	12.00000	-2.00000	-.40570	-.18190	-1.19595	-1.35627	1.99753	-.61230
	GRADIENT	.00000	.00000	-.03106	-.02074	.00000	.00000	.03961	-.00660

RUN NO. 99/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.769	-8.191	12.00000	-2.00000	.07700	.41050	-.66662	-.77413	.08011	-.50812
3.849	-6.242	12.00000	-2.00000	.02860	.28280	-.77129	-.87849	.13323	-.61331
3.937	-4.224	12.00000	-2.00000	-.03760	.17560	-.82435	-.93152	.39990	-.50644
4.056	-.021	12.00000	-2.00000	-.12860	-.06730	-.98331	-1.03712	.45279	-.61250
3.968	4.157	12.00000	-2.00000	-.19950	-.16420	-.87650	-.93028	.77227	-.50577
3.938	6.188	12.00000	-2.00000	-.22880	-.17570	-.92974	-1.09002	.87882	-.55903
	GRADIENT	.00000	.00000	-.01932	-.04056	-.00625	.00012	.04440	.00005

IA138 AMES 246-1-97 OTS POWER OFF (T3D013) (15 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-2.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 102/ 0 RN/L = 3.70 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.274	-8.166	12.00000	-2.00000	-.17260	.00550	-3.44155	-3.21032	5.92440	-1.19990
-4.367	-6.199	12.00000	-2.00000	-.25310	-.05450	-3.52012	-3.21139	6.00384	-1.12284
-4.429	-4.154	12.00000	-2.00000	-.30770	-.10430	-3.44383	-3.13499	6.16083	-1.12321
-4.463	.097	12.00000	-2.00000	-.44400	-.22910	-3.51895	-3.21032	6.07930	-1.12247
-4.259	4.257	12.00000	-2.00000	-.58080	-.27520	-3.67620	-3.28992	6.54832	-1.12321
-4.183	6.274	12.00000	-2.00000	-.63610	-.24960	-3.67498	-3.21139	6.70109	-1.04538
	GRADIENT	-.00000	.00000	-.03247	-.02035	-.02759	-.01842	.04583	.00000

RUN NO. 103/ 0 RN/L = 3.71 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.206	-7.790	12.00000	-2.00000	-.11340	.13670	-3.75365	-3.44484	6.70332	-1.12321
-.178	-5.827	12.00000	-2.00000	-.19330	-.00570	-3.59874	-3.21246	6.62582	-1.04572
-.162	-3.821	12.00000	-2.00000	-.25340	-.06230	-3.82857	-3.36515	6.85376	-1.19990
-.167	.138	12.00000	-2.00000	-.38240	-.15690	-3.82603	-3.28556	6.77183	-1.12172
-.104	4.234	12.00000	-2.00000	-.46250	-.26020	-3.82857	-3.21032	6.77631	-1.04503
-.091	6.223	12.00000	-2.00000	-.52360	-.28980	-4.05809	-3.51764	6.92662	-1.12172
	GRADIENT	.00000	.00000	-.02592	-.02457	-.00000	.01922	-.00955	.01922

RUN NO. 104/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.811	-8.205	12.00000	-2.00000	-.00340	.22730	-3.82730	-3.44142	7.31602	-1.12210
3.891	-6.255	12.00000	-2.00000	-.05570	.12030	-3.82476	-3.28447	7.46591	-1.04399
3.979	-4.237	12.00000	-2.00000	-.09740	.02490	-3.98337	-3.36515	7.55078	-1.04503
4.096	-.034	12.00000	-2.00000	-.22030	-.09950	-4.05943	-3.44142	7.39344	-1.04468
4.012	4.141	12.00000	-2.00000	-.31790	-.19140	-4.13407	-3.43914	7.54328	-.96663
3.981	6.173	12.00000	-2.00000	-.35190	-.22360	-4.05809	-3.51764	7.54576	-.96695
	GRADIENT	.00000	.00000	-.02632	-.02582	-.01799	-.00864	-.00093	.00935

IA138 AMES 246-1-97 OTS POWER OFF (T3D014) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-5.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 153/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.327	-6.171	12.00000	-5.00000	-.23800	.06070	-.81173	-1.11907	-1.89285	-.50830
-4.426	-4.150	12.00000	-5.00000	-.28550	-.02400	-.81173	-1.19645	-1.66072	-.66327
-4.463	.100	12.00000	-5.00000	-.41580	-.15360	-.88883	-1.27341	-1.50546	-.66305
-4.259	4.256	12.00000	-5.00000	-.55330	-.20800	-1.04394	-1.27383	-1.42858	-.58579
-4.182	6.272	12.00000	-5.00000	-.60690	-.19320	-1.04394	-1.50596	-1.27383	-.81823
	GRADIENT	.00000	-.00000	-.03185	-.02192	-.02759	-.00924	.02765	.00918

RUN NO. 152/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.213	-6.216	12.00000	-5.00000	-.16780	.11070	-.42471	-.65480	-2.51187	-.35334
-.218	-4.275	12.00000	-5.00000	-.22110	.00730	-.57913	-.80902	-2.35556	-.50797
-.196	-.245	12.00000	-5.00000	-.34620	-.08380	-.65692	-.88694	-2.27974	-.50830
-.173	3.793	12.00000	-5.00000	-.43100	-.18710	-.65714	-.96463	-2.20309	-.50847
-.156	5.802	12.00000	-5.00000	-.49170	-.22860	-.65692	-.88694	-2.04761	-.58579
	GRADIENT	.00000	-.00000	-.02601	-.02410	-.00967	-.01929	.01890	-.00006

RUN NO. 151/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.822	-6.214	12.00000	-5.00000	-.05060	.15210	-.42513	-.73291	-2.82419	-.50881
3.916	-4.237	12.00000	-5.00000	-.08860	.04790	-.50244	-.73267	-2.66840	-.43111
4.035	-.034	12.00000	-5.00000	-.20140	-.07520	-.26981	-.65459	-2.66575	-.43068
3.952	4.145	12.00000	-5.00000	-.29980	-.15090	-.65670	-.80929	-2.58839	-.43068
3.917	6.174	12.00000	-5.00000	-.33310	-.18710	-.50161	-.80876	-2.58668	-.43040
	GRADIENT	.00000	.00000	-.02520	-.02372	-.01833	-.00912	.00954	.00005

IA138 AMES 246-1-97 OTS POWER OFF (T3D015) (15 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	12.000	ELV-OB =	-7.000
MACH =	1.550	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 130/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.135	-7.911	12.00000	-7.00000	.01180	.24150	-.24351	-.28980	.24274	-.07695
-4.128	-5.841	12.00000	-7.00000	-.07120	.10860	-.24351	-.18338	.34915	-.07695
-4.112	-3.859	12.00000	-7.00000	-.15480	.00290	-.35034	-.23675	.40262	-.07700
-4.028	.041	12.00000	-7.00000	-.29490	-.07240	-.40315	-.39597	.40209	-.07690
-4.024	3.905	12.00000	-7.00000	-.42540	-.11400	-.50951	-.39584	.61457	-.07688
-4.044	5.897	12.00000	-7.00000	-.46310	-.11850	-.56276	-.50216	.66773	-.18320
	GRADIENT	-.00000	-.00000	-.03486	-.01506	-.02049	-.02052	.02726	.00002

RUN NO. 129/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.243	-7.786	12.00000	-7.00000	.03940	.37270	.12956	.18905	-.50200	.13586
-.218	-5.813	12.00000	-7.00000	-.00690	.24470	.07625	.18899	-.34232	.02946
-.202	-3.806	12.00000	-7.00000	-.09110	.06950	.02300	.08269	-.12971	.08269
-.205	.156	12.00000	-7.00000	-.21620	-.08070	-.03030	.02947	-.12971	.02947
-.144	4.252	12.00000	-7.00000	-.32800	-.12400	-.19014	-.13012	.02990	.08266
-.131	6.241	12.00000	-7.00000	-.37890	-.12840	-.13686	-.13012	.24265	.02946
	GRADIENT	-.00000	.00000	-.02939	-.02394	-.02652	-.02648	.01992	.00007

RUN NO. 128/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.629	-7.852	12.00000	-7.00000	.08050	.46990	.50255	.66781	-.92751	.29544
3.671	-5.871	12.00000	-7.00000	.03850	.37730	.39572	.45473	-.87375	.24209
3.675	-3.870	12.00000	-7.00000	-.01510	.24750	.50271	.56160	-.76820	.29554
3.627	.061	12.00000	-7.00000	-.10160	-.02620	.28941	.45503	-.71476	.16905
3.629	3.907	12.00000	-7.00000	-.17260	-.12250	.39598	.50822	-.66157	.24225
3.658	5.883	12.00000	-7.00000	-.20240	-.12270	.23813	.40185	-.60838	.16905
	GRADIENT	-.00000	.00000	-.02026	-.04766	-.01387	-.00694	.01371	-.00693

IA138 AMES 246-1-97 OTS POWER OFF (T3D016) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 139/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.094	-5.828	12.00000	-7.00000	-.26540	.07690	-4.15100	-3.05158	6.07694	-.80812
-4.074	-3.877	12.00000	-7.00000	-.30780	-.01900	-4.30456	-3.12790	6.15225	-.80785
-3.995	.025	12.00000	-7.00000	-.42300	-.13410	-4.14825	-2.97225	6.22752	-.73027
-3.984	3.890	12.00000	-7.00000	-.54250	-.19780	-4.22989	-2.97520	6.31109	-.65361
-4.005	5.882	12.00000	-7.00000	-.59340	-.17650	-4.15376	-2.89878	6.54539	-.57642
	GRADIENT	-.00000	-.00000	-.03022	-.02303	.00966	.01969	.02045	.01986

RUN NO. 138/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.187	-5.798	12.00000	-7.00000	-.19380	.13150	-4.22709	-3.05057	5.61097	-.73051
-.162	-3.821	12.00000	-7.00000	-.24060	.01050	-4.15100	-2.89686	5.76753	-.65340
-.164	.139	12.00000	-7.00000	-.36360	-.08750	-4.22989	-2.97520	5.84682	-.80838
-.105	4.239	12.00000	-7.00000	-.44560	-.18630	-4.15100	-2.81949	6.07694	-.73076
-.092	6.227	12.00000	-7.00000	-.49940	-.22270	-4.15238	-2.82043	5.92420	-.73100
	GRADIENT	.00000	.00000	-.02540	-.02441	.00011	.00977	.03849	-.00943

RUN NO. 137/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.683	-5.865	12.00000	-7.00000	-.05970	.13510	-4.15238	-2.97520	5.38255	-.80838
3.715	-3.882	12.00000	-7.00000	-.10290	.05500	-4.15376	-2.97619	5.46174	-.88607
3.665	.044	12.00000	-7.00000	-.21910	-.06220	-4.07351	-2.81949	5.45812	-.80812
3.669	3.895	12.00000	-7.00000	-.30470	-.13890	-4.15100	-2.89686	5.45812	-.73076
3.698	5.869	12.00000	-7.00000	-.33090	-.17270	-4.22849	-2.89686	5.61283	-.65340
	GRADIENT	.00000	.00000	-.02596	-.02495	.00042	.01030	-.00047	.01997

IA138 AMES 2%6-I-97 OTS POWER OFF (T3D017) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	8.000	ELV-OB =	-2.000
MACH =	1.550	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 176/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.313	-8.156	8.00000	-2.00000	.28120	.06440	-.23774	-.18229	-.55532	-.34598
-4.407	-6.184	8.00000	-2.00000	.18970	-.04630	-.23774	-.23543	-.34268	-.29278
-4.469	-4.139	8.00000	-2.00000	.09090	-.11320	-.45030	-.34162	-.12999	-.29268
-4.507	.113	8.00000	-2.00000	-.08390	-.16440	-.55680	-.34173	.18893	-.23958
-4.289	4.277	8.00000	-2.00000	-.22260	-.19310	-.50346	-.39475	.18886	-.39905
	GRADIENT	.00000	.00000	-.03727	-.00950	-.00638	-.00629	.03802	-.01255

RUN NO. 175/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.243	-7.780	8.00000	-2.00000	.28140	.19890	.13469	.19000	-1.03513	-.13335
-.216	-5.811	8.00000	-2.00000	.22300	.06140	-.02507	.03036	-.98222	-.13340
-.199	-3.807	8.00000	-2.00000	.13000	-.05850	-.07818	.03030	-.87399	-.23950
-.206	.152	8.00000	-2.00000	-.00270	-.17170	-.13134	-.02283	-.82085	-.29268
-.144	4.255	8.00000	-2.00000	-.12880	-.20050	-.13134	-.02283	-.60827	-.18632
	GRADIENT	.00000	.00000	-.03209	-.01755	-.00655	-.00655	.03307	.00671

RUN NO. 174/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.716	-8.192	8.00000	-2.00000	.31320	.31750	.61351	.66853	-1.56639	.13292
3.794	-6.241	8.00000	-2.00000	.26250	.21270	.56049	.66875	-1.40728	.29273
3.883	-4.224	8.00000	-2.00000	.19390	.11050	.45388	.56216	-1.40681	.07988
4.000	-.017	8.00000	-2.00000	.09100	-.09540	.34756	.40275	-1.30085	-.02680
3.909	4.161	8.00000	-2.00000	.01780	-.19070	.29434	.34954	-1.24764	-.08005
	GRADIENT	.00000	.00000	-.02101	-.03594	-.01904	-.02537	.01899	-.01905

IA138 AMES 246-1-97 OTS POWER OFF (T3D018) (19 OCT 78)

REFERENCE DATA

SREF =	8690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO			
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO			
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO			
SCALE =	.0100						

PARAMETRIC DATA

ELV-IB =	0.000	ELV-OB =	-7.000
MACH =	1.560	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 142/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.146	-7.790	8.00000	-7.00000	.27060	.12740	-195.46130	.29254	-1.35308	-.23473
-4.141	-5.831	8.00000	-7.00000	.17380	-.00440	-189.70230	.29244	-1.19332	-.12852
-4.126	-3.853	8.00000	-7.00000	.07850	-.06470	-195.65560	.29283	-1.24807	-.23497
-4.038	.041	8.00000	-7.00000	-.06820	-.12820	-192.67690	.23948	-1.03469	-.18171
-4.035	3.896	8.00000	-7.00000	-.21940	-.16650	-192.80460	.29283	-1.03537	-.28811
	GRADIENT	.00000	-.00000	-.03844	-.01314	.36861	-.00002	.02750	-.00682

RUN NO. 143/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.243	-7.755	8.00000	-7.00000	.28690	.33770	-201.22410	.13316	-1.03469	-.23481
-.217	-5.802	8.00000	-7.00000	.22550	.21020	-198.44080	.02685	-1.03503	-.44738
-.202	-3.799	8.00000	-7.00000	.13990	.04330	-206.99070	-.02633	-.92871	-.39426
-.202	.155	8.00000	-7.00000	-.00100	-.11010	-209.91020	-.13272	-.66314	-.28811
-.139	4.240	8.00000	-7.00000	-.12650	-.14850	-209.91020	-.07953	-.60996	-.39439
	GRADIENT	.00000	.00000	-.03313	-.02378	-.36119	-.00651	.03951	-.00016

RUN NO. 144/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.575	-7.826	8.00000	-7.00000	.32110	.51170	-232.48660	-.50458	-.13125	-.60635
3.619	-5.857	8.00000	-7.00000	.26600	.41840	-235.41250	-.55790	-6.88018	-.65966
3.624	-3.860	8.00000	-7.00000	.19960	.29230	-235.25680	-.50441	.13433	-.60615
3.574	.059	8.00000	-7.00000	.10190	-.01220	-243.95970	-.61106	.29384	-.60655
3.576	3.895	8.00000	-7.00000	.01960	-.10990	-241.11070	-.66422	.34698	-.71276
	GRADIENT	.00000	.00000	-.02322	-.05196	-.76017	-.02063	.02747	-.01370

IA138 AMES 246-1-97 OTS POWER OFF (T3D019) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1078.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-2.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 121/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.068	-5.303	4.00000	-2.00000	-.05690	-.16150	4.36323	3.22067	-9.93655	1.65478
-4.058	-3.351	4.00000	-2.00000	-.12990	-.18370	4.36323	2.64803	-10.22269	1.51174
-3.978	.545	4.00000	-2.00000	-.24310	-.23330	4.50497	2.93338	-10.36231	1.36827
-3.965	4.408	4.00000	-2.00000	-.30380	-.26680	4.21861	2.79026	-9.93326	1.22530
-3.985	6.398	4.00000	-2.00000	-.35180	-.24570	4.07678	2.79119	-9.93655	1.51174
	GRADIENT	.00000	.00000	-.02242	-.01071	-.01856	.01841	.03719	-.03691

RUN NO. 122/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.184	-5.277	4.00000	-2.00000	.03540	-.08190	4.21861	2.93338	-9.64724	1.36827
-.159	-3.302	4.00000	-2.00000	-.02680	-.14740	4.07678	2.64803	-9.36430	1.22570
-.147	.651	4.00000	-2.00000	-.15560	-.20430	3.07319	2.50404	-9.64724	.93935
-.098	4.757	4.00000	-2.00000	-.22980	-.24940	3.21637	2.36092	-9.21818	1.36827
-.085	6.745	4.00000	-2.00000	-.26700	-.24830	2.78683	2.36092	-8.50308	1.22530
	GRADIENT	.00000	.00000	-.02514	-.01265	-.10584	-.03562	.01869	.01825

RUN NO. 123/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.698	-5.343	4.00000	-2.00000	.15170	-.06730	2.93098	2.21854	-8.93510	.93966
3.731	-3.362	4.00000	-2.00000	.08400	-.10250	2.78775	2.07538	-8.50590	.93966
3.676	.564	4.00000	-2.00000	-.05530	-.16170	2.64365	2.21781	-9.07516	.93935
3.677	4.413	4.00000	-2.00000	-.15860	-.19320	2.78775	2.21854	-8.79203	1.08268
3.704	6.383	4.00000	-2.00000	-.16330	-.19270	2.78683	1.78846	-8.36006	1.08232
	GRADIENT	.00000	.00000	-.03122	-.01168	-.00012	.01847	-.03716	.01833

IA138 AMES 246-1-97 OTS POWER OFF (T3D020) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 120/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.020	-6.048	4.00000	-2.00000	-.08260	-.17300	6.50581	4.91115	-15.62865	2.64070
-4.011	-4.097	4.00000	-2.00000	-.13280	-.19770	6.96293	5.36807	-15.40034	2.86893
-3.931	-.198	4.00000	-2.00000	-.22410	-.22650	6.73437	5.36807	-15.62865	2.41246
-3.922	3.665	4.00000	-2.00000	-.29260	-.23710	6.73437	5.36807	-15.62865	2.41246
-3.942	5.654	4.00000	-2.00000	-.30550	-.23200	6.73437	4.91115	-16.31355	2.64070
	GRADIENT	.00000	.00000	-.02059	-.00508	-.02949	.00000	-.02946	-.05889

RUN NO. 119/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.128	-6.019	4.00000	-2.00000	.00960	-.17440	6.04868	5.59653	-14.25880	3.09716
-.102	-4.042	4.00000	-2.00000	-.04410	-.19790	5.59156	5.36807	-14.71542	2.86893
-.105	-.082	4.00000	-2.00000	-.14670	-.23110	5.81819	5.13791	-14.71055	3.09613
-.044	4.016	4.00000	-2.00000	-.22240	-.24670	5.82012	4.91115	-14.48711	2.86893
-.031	6.002	4.00000	-2.00000	-.24740	-.23380	6.04868	5.36807	-15.17203	3.09716
	GRADIENT	.00000	.00000	-.02211	-.00604	.02820	-.05670	.02848	-.00032

RUN NO. 118/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.741	-6.087	4.00000	-2.00000	.09130	-.19960	5.81819	5.13791	-13.34115	2.63982
3.773	-4.104	4.00000	-2.00000	.05130	-.21290	5.59156	4.91115	-13.34557	2.86893
3.721	-.179	4.00000	-2.00000	-.04410	-.23170	5.81819	5.13791	-13.56939	2.86798
3.728	3.670	4.00000	-2.00000	-.12960	-.24180	6.27725	5.13961	-13.80219	2.41246
3.758	5.641	4.00000	-2.00000	-.15860	-.23500	6.27517	5.59468	-13.34115	3.32429
	GRADIENT	.00000	.00000	-.02327	-.00372	.08811	.02948	-.05873	-.05853

IA13B AMES 246-1-97 OTS POWER OFF (T3D02I) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.9100 INCHES	YMRP =	.0000 IN. YO		
BREF =	836.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-8.000
MACH =	1.800	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 160/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.082	-5.930	4.00000	-5.00000	.21340	.08170	-1.03572	-.72577	-.03197	.27072
-4.069	-3.871	4.00000	-5.00000	.15000	-.01360	-.95841	-.64847	.04536	.34814
-3.981	.025	4.00000	-5.00000	-.00300	-.12280	-.95905	-.64890	-.10937	.19343
-3.984	3.889	4.00000	-5.00000	-.14660	-.17170	-.95873	-.64869	.12272	.27061
-4.004	5.892	4.00000	-5.00000	-.21790	-.16120	-1.11377	-.72625	.12276	.11596
	GRADIENT	.00000	.00000	-.03822	-.02038	-.00004	-.00003	.00990	-.01001

RUN NO. 159/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.207	-6.227	4.00000	-5.00000	.24820	.16170	-.80406	-.33938	-.41874	.42571
-.214	-4.287	4.00000	-5.00000	.17950	.04540	-.80379	-.33927	-.49593	.34814
-.196	-.254	4.00000	-5.00000	.04840	-.07210	-.72648	-.33927	-.41860	.42556
-.175	3.787	4.00000	-5.00000	-.05490	-.16640	-.95841	-.49387	-.10930	.42556
-.159	5.796	4.00000	-5.00000	-.12080	-.20220	-.72672	-.41671	-.26404	.34826
	GRADIENT	.00000	.00000	-.02903	-.02623	-.01917	-.01916	.04790	.00959

RUN NO. 158/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.628	-5.867	4.00000	-5.00000	.31820	.16810	-.72672	-.33938	-1.26961	.03847
3.660	-3.881	4.00000	-5.00000	.26400	.07040	-.72672	-.18473	-1.11491	.19337
3.606	.045	4.00000	-5.00000	.13990	-.05380	-.64939	-.10740	-.98285	.27081
3.611	3.896	4.00000	-5.00000	.03660	-.12090	-.80379	-.33927	-.57326	.50299
3.641	5.870	4.00000	-5.00000	.01140	-.15520	-.64918	-.26197	-.34128	.58041
	GRADIENT	.00000	-.00000	-.02925	-.02462	-.00981	-.01974	.06981	.03974

!A138 AMES 246-1-97 OTS POWER OFF (T3D022) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 161/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.323	-5.648	4.00000	-5.00000	-.04390	-.06210	-2.91394	-2.05538	.94117	.21414
-4.422	-3.629	4.00000	-5.00000	-.12630	-.09790	-3.05883	-2.19969	1.37075	.21428
-4.453	.620	4.00000	-5.00000	-.24790	-.16960	-2.77292	-2.34262	1.51374	.35744
-4.246	4.780	4.00000	-5.00000	-.30910	-.20470	-3.34363	-2.48474	1.37030	.07109
-4.165	6.794	4.00000	-5.00000	-.35140	-.18600	-3.05984	-2.48639	1.51424	.07114
	GRADIENT	.00000	.00000	-.02176	-.01272	-.03351	-.03390	.00007	-.01685

RUN NO. 162/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.195	-5.705	4.00000	-5.00000	.05060	-.03010	-3.05984	-2.20042	1.22817	.07114
-.203	-3.765	4.00000	-5.00000	-.01740	-.07340	-3.48539	-2.48392	1.65563	.21414
-.182	.266	4.00000	-5.00000	-.14240	-.14430	-3.05883	-2.48557	2.37166	.21428
-.164	4.306	4.00000	-5.00000	-.22480	-.19660	-3.19966	-2.19823	2.79877	.50027
-.148	6.315	4.00000	-5.00000	-.25640	-.19830	-3.05782	-2.34185	2.37087	.35732
	GRADIENT	.00000	.00000	-.02570	-.01526	.03538	.03541	.14163	.03547

RUN NO. 163/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.845	-5.693	4.00000	-5.00000	.16760	-.00430	-3.34363	-2.34185	1.94206	.07109
3.942	-3.722	4.00000	-5.00000	.10500	-.04800	-3.05782	-2.48474	2.08500	.21421
4.057	.487	4.00000	-5.00000	-.03830	-.11690	-3.05681	-2.05538	2.22720	.21414
3.965	4.671	4.00000	-5.00000	-.15180	-.15880	-2.91587	-2.19969	2.37166	.07112
3.930	6.698	4.00000	-5.00000	-.15580	-.15640	-3.34253	-2.48392	2.51298	.07107
	GRADIENT	.00000	.00000	-.03060	-.01321	.01690	.03403	.03416	-.01703

IA138 AMES 246-1-97 OTS POWER OFF (T3D023) (18 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 172/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.018	-6.053	4.00000	-5.00000	-.07810	-.11090	.36567	1.73612	-6.93978	2.39809
-4.007	-4.095	4.00000	-5.00000	-.12760	-.14530	-.31862	1.50752	-7.39369	2.62568
-3.927	-.198	4.00000	-5.00000	-.22090	-.18310	-.31873	1.05181	-7.62432	1.94117
-3.922	3.665	4.00000	-5.00000	-.28770	-.20190	-.31863	1.73669	-7.39859	2.17035
-3.945	5.658	4.00000	-5.00000	-.29820	-.19580	.13754	1.50802	-6.93978	2.16963
	GRADIENT	.00000	-.00000	-.02063	-.00730	-.00003	.02932	-.00072	-.05884

RUN NO. 171/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.144	-6.452	4.00000	-5.00000	.02080	-.11760	-1.45938	.82370	-4.88615	2.39809
-.153	-4.509	4.00000	-5.00000	-.02860	-.14710	-1.00345	.82397	-5.80079	2.39888
-.136	-.477	4.00000	-5.00000	-.13690	-.18700	-.77499	1.27991	-5.34251	2.16963
-.113	3.562	4.00000	-5.00000	-.21470	-.21170	-1.00312	1.05181	-6.02705	2.39809
-.096	5.571	4.00000	-5.00000	-.24070	-.19740	-.31873	1.50802	-5.79887	2.16963
	GRADIENT	.00000	-.00000	-.02306	-.00800	.00003	.02821	-.02807	-.00008

RUN NO. 170/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.683	-6.089	4.00000	-5.00000	.09020	-.13040	-3.28551	-.54511	-3.51822	1.71328
3.716	-4.103	4.00000	-5.00000	.05020	-.15280	-2.82722	-.31672	-4.20021	1.48376
3.662	-.177	4.00000	-5.00000	-.04400	-.18940	-1.91501	.13934	-3.74400	1.94053
3.672	3.672	4.00000	-5.00000	-.12860	-.21270	-1.68695	.82343	-4.42832	1.94053
3.703	5.644	4.00000	-5.00000	-.15760	-.20400	-1.68751	.36749	-4.65797	2.16963
	GRADIENT	.00000	.00000	-.02300	-.00771	.14695	.14655	-.02886	.05894

IA138 AMES 246-1-97 OTS POWER OFF (T3D024) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1078.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	-7.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 199/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.072	-5.311	4.00000	-7.00000	-.05390	.00000	-.21156	.21878	-4.64831	.48707
-4.059	-3.353	4.00000	-7.00000	-.13100	.00000	-.21163	.07576	-4.50672	.48723
-3.976	.546	4.00000	-7.00000	-.24480	.00000	.36083	.50505	-4.79298	.34388
-3.970	4.412	4.00000	-7.00000	-.30550	.00000	.36071	.21878	-4.50522	.34377
-3.988	6.402	4.00000	-7.00000	-.34940	.00000	.21764	.36183	-4.64831	.63038
	GRADIENT	.00000	.00000	-.02248	.00000	.07382	.01855	.00009	-.01850

RUN NO. 198/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.192	-5.710	4.00000	-7.00000	.05180	.00000	-.06847	.36172	-4.64677	.48691
-.199	-3.770	4.00000	-7.00000	-.01800	.00000	.07460	.64815	-4.93611	.20053
-.184	.264	4.00000	-7.00000	-.14490	.00000	-.06849	.50489	-4.36214	.63038
-.159	4.305	4.00000	-7.00000	-.22650	.00000	.07457	.36183	-4.93447	.63038
-.144	6.315	4.00000	-7.00000	-.25660	.00000	.21764	.50489	-4.79139	.63039
	GRADIENT	.00000	.00000	-.02582	.00000	.00001	-.03546	.00016	.05322

RUN NO. 197/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.648	-5.348	4.00000	-7.00000	.14670	.00000	-.64118	-.06736	-4.07868	.20059
3.678	-3.362	4.00000	-7.00000	.08030	.00000	-.35439	-.06727	-4.21627	.20033
3.624	.565	4.00000	-7.00000	-.05530	.00000	-.21135	.21857	-4.35781	.20026
3.630	4.415	4.00000	-7.00000	-.15680	.00000	-.21184	.07583	-4.36793	.34422
3.658	6.390	4.00000	-7.00000	-.16400	.00000	.07460	.36195	-4.22046	.63058
	GRADIENT	.00000	.00000	-.03050	.00000	.01839	.01858	-.01956	.01844

IA138 AMES 246-1-97 OTS POWER OFF (T3D025) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	4.000	ELV-OB =	2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 108/ 0 RN/L = 2.87 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.013	-6.047	4.00000	2.00000	-.08780	-.24070	-2.16141	-1.25418	-5.62355	-1.02328
-4.004	-4.093	4.00000	2.00000	-.13830	-.24730	-1.70378	-.79635	-5.85267	-1.25217
-3.927	-.197	4.00000	2.00000	-.22930	-.27150	-1.47497	-.79635	-6.76915	-1.48107
-3.918	3.661	4.00000	2.00000	-.30370	-.27418	-1.01700	-.10956	-6.07977	-.79413
-3.939	5.654	4.00000	2.00000	-.31360	-.26480	-1.01700	-.79608	-5.62168	-1.02294
	GRADIENT	.00000	.00000	-.02133	-.00346	.08852	.08842	-.02962	.05888

RUN NO. 109/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.136	-6.015	4.00000	2.00000	.00290	-.16210	-.78826	-.10956	-6.76690	-1.25176
-.102	-.092	4.00000	2.00000	-.14960	-.22620	-.78852	.11932	-7.22740	-.79439
-.050	4.012	4.00000	2.00000	-.22870	-.24780	-.55952	-.33840	-6.99595	-.56531
-.037	6.000	4.00000	2.00000	-.25320	-.23670	-.78852	-.10959	-7.45651	-1.02328
	GRADIENT	.00000	.00000	-.01927	-.00526	.05580	-.11153	.05639	.05582

RUN NO. 110/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.737	-6.082	4.00000	2.00000	.08850	-.13630	-.33089	.11932	-8.50212	-1.02328
3.772	-4.100	4.00000	2.00000	.04950	-.16080	-.10208	.57716	-7.91476	-.33660
3.721	-.178	4.00000	2.00000	-.04680	-.18680	-.55970	.34824	-7.68564	-.33660
3.727	3.664	4.00000	2.00000	-.13560	-.21570	.12674	.80607	-8.14388	-.33660
3.759	5.636	4.00000	2.00000	-.16160	-.20890	.12678	.34835	-7.68819	-.33672
	GRADIENT	.00000	.00000	-.02384	-.00707	.02896	.02918	-.02921	-.00000

IA138 AMES 246-1-97 OTS POWER OFF (T3D026) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN.	XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN.	YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN.	ZO
SCALE =	.0100					

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 209/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.349	-5.652	.00000	-2.00000	.11990	-.15610	.78804	1.37805	-5.06041	.22085
-4.439	-3.628	.00000	-2.00000	.02900	-.17430	.78961	1.38080	-5.21359	.22129
-4.474	.618	.00000	-2.00000	-.11500	-.23160	.93160	1.66446	-5.06376	.36397
-4.262	4.780	.00000	-2.00000	-.19290	-.25980	1.21646	1.94803	-5.62987	-.06488
-4.184	6.792	.00000	-2.00000	-.23560	-.23380	1.21767	1.52172	-5.63546	.36397
	GRADIENT	.00000	.00000	-.02642	-.01018	.05071	.06746	-.04922	-.03380

RUN NO. 210/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.175	-5.274	.00000	-2.00000	.18140	-.05760	1.07499	1.52222	-5.92327	-.06497
-.148	-3.299	.00000	-2.00000	.11620	-.11370	1.07499	1.80782	-5.63732	.50711
-.153	.658	.00000	-2.00000	-.01790	-.17490	1.36070	1.66446	-5.92131	.22100
-.092	4.757	.00000	-2.00000	-.10990	-.22510	1.07499	1.80782	-5.78030	.36409
-.079	6.743	.00000	-2.00000	-.15220	-.22700	1.36116	1.80782	-6.06624	.22107
	GRADIENT	.00000	.00000	-.02803	-.01382	-.00042	.00021	-.01743	-.01744

RUN NO. 211/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.838	-5.692	.00000	-2.00000	.29000	-.02370	1.21848	1.80841	-5.92523	.36421
3.930	-3.713	.00000	-2.00000	.22690	-.06660	1.64732	1.80782	-5.92327	.22107
4.049	.487	.00000	-2.00000	.07780	-.12340	1.21807	1.66502	-6.06624	-.06497
3.961	4.663	.00000	-2.00000	-.03890	-.16450	1.50474	1.95126	-6.21127	.22114
3.927	6.690	.00000	-2.00000	-.05040	-.16400	1.21767	1.37897	-6.06423	.22100
	GRADIENT	.00000	.00000	-.03174	-.01169	-.01711	.01708	-.03438	-.00006

IA138 AMES 246-1-97 OTS POWER OFF (T3D027) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 222/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.016	-6.048	.00000	-2.00000	.04510	-.09830	6.51050	6.30312	-19.26317	2.63511
-4.005	-4.094	.00000	-2.00000	-.01350	-.13100	6.28216	5.07524	-20.17580	1.95041
-3.928	-.197	.00000	-2.00000	-.12050	-.16520	6.51050	6.07524	-19.71948	2.40688
-3.923	3.665	.00000	-2.00000	-.19770	-.18010	6.28424	6.07725	-20.18248	2.17937
-3.944	5.657	.00000	-2.00000	-.20470	-.17480	6.28424	5.84930	-19.95424	2.63598
	GRADIENT	.00000	.00000	-.02375	-.00633	.00035	.00026	-.00069	.02964

RUN NO. 221/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.146	-6.445	.00000	-2.00000	.13060	-.11170	6.28216	6.53100	-18.80685	2.63511
-.152	-4.506	.00000	-2.00000	.07700	-.13690	5.82550	5.84736	-18.57869	2.63511
-.138	-.477	.00000	-2.00000	-.04350	-.16990	5.82743	6.30520	-18.12839	2.86429
-.115	3.562	.00000	-2.00000	-.13460	-.19160	6.05584	6.53316	-19.04131	2.63598
-.099	5.571	.00000	-2.00000	-.16260	-.18100	6.28216	6.30312	-18.80685	2.86334
	GRADIENT	.00000	.00000	-.02623	-.00678	.02856	.08499	-.05740	.00009

RUN NO. 220/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.685	-6.086	.00000	-2.00000	.18210	-.13510	5.36528	5.84349	-18.11038	2.63337
3.717	-4.101	.00000	-2.00000	.13930	-.15460	5.36350	5.61391	-18.56026	2.17648
3.666	-.177	.00000	-2.00000	.03780	-.17890	5.36883	6.30312	-18.57869	1.95041
3.674	3.670	.00000	-2.00000	-.05530	-.19970	6.05383	6.75888	-18.12239	2.86334
3.705	5.645	.00000	-2.00000	-.08680	-.19290	5.59716	6.07524	-17.89423	3.09158
	GRADIENT	.00000	.00000	-.02504	-.00580	.08854	.14743	.05614	.08790

IA138 AMES 246-1-97 OTS POWER OFF (T3D028) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-5.000
MACH =	2.200	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 181/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.326	-5.652	.00000	-5.00000	.11980	-.19000	-.61863	.09178	-2.47170	.08023
-4.424	-3.636	.00000	-5.00000	.03280	-.20580	-.61987	-.05090	-2.61945	.08039
-4.563	.400	.00000	-5.00000	-.10040	-.26210	-.04851	.52002	-2.75953	.08031
-4.245	4.785	.00000	-5.00000	-.19370	-.30120	-.33366	.37705	-3.04289	.22303
-4.171	6.799	.00000	-5.00000	-.23850	-.28180	.23678	.51985	-3.04389	.36594
	GRADIENT	.00000	.00000	-.02682	-.01130	.03257	.04963	-.05049	.01716

RUN NO. 182/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.173	-5.279	.00000	-5.00000	.18260	-.08400	-.04846	.51950	-3.46951	.08023
-.145	-3.302	.00000	-5.00000	.11610	-.14530	-.04848	.51967	-3.61325	.22303
-.152	.663	.00000	-5.00000	-.01930	-.21220	-.04851	.66273	-3.90101	.08031
-.091	4.760	.00000	-5.00000	-.11160	-.26140	.23725	.80679	-3.62164	.36666
-.078	6.751	.00000	-5.00000	-.15050	-.26520	-.19119	.52002	-3.75833	.36606
	GRADIENT	.00000	.00000	-.02821	-.01439	.03564	.03561	-.00065	.01811

RUN NO. 183/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.838	-5.693	.00000	-5.00000	.29090	-.04920	.23670	.66230	-3.75584	.50860
3.931	-3.714	.00000	-5.00000	.22590	-.09730	.37942	.94786	-4.18500	.36594
4.049	.489	.00000	-5.00000	.07870	-.15810	.23678	.80519	-4.47028	.36594
3.962	4.668	.00000	-5.00000	-.04180	-.20390	.52206	.94786	-4.47028	.36594
3.928	6.697	.00000	-5.00000	-.05140	-.19800	.52206	.94786	-4.89819	.50876
	GRADIENT	.00000	.00000	-.03194	-.01272	.01697	-.00003	-.03407	-.00000

IA138 AMES 246-1-97 OTS POWER OFF (T3D029) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	-5.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 192/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.018	-6.049	.00000	-5.00000	.04030	-.11870	5.39339	5.39087	-19.68150	3.78041
-4.008	-4.094	.00000	-5.00000	-.01620	-.15010	5.61948	5.84493	-20.13074	3.77916
-3.929	-.194	.00000	-5.00000	-.12440	-.18240	6.07725	6.53089	-20.36536	3.55215
-3.928	3.668	.00000	-5.00000	-.20320	-.19840	6.30312	6.75665	-20.59649	3.55098
-3.945	5.662	.00000	-5.00000	-.21200	-.19100	6.30520	6.30288	-19.90945	3.55215
	GRADIENT	.00000	.00000	-.02410	-.00623	.08812	.11755	-.05872	-.02944

RUN NO. 191/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.146	-6.447	.00000	-5.00000	.12850	-.12420	4.93585	6.07287	-18.30771	3.77916
-.152	-4.509	.00000	-5.00000	.07500	-.15070	5.61948	6.07287	-18.53558	3.77916
-.135	-.477	.00000	-5.00000	-.04630	-.19150	5.61948	6.30079	-18.53558	3.77916
-.114	3.567	.00000	-5.00000	-.14040	-.21280	5.84930	6.30288	-18.54173	3.55215
-.098	5.575	.00000	-5.00000	-.16870	-.20300	5.84930	6.07488	-18.54173	4.00867
	GRADIENT	.00000	-.00000	-.02667	-.00769	.02847	.02847	-.00076	-.02812

RUN NO. 190/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.688	-6.087	.00000	-5.00000	.18080	-.14370	3.57450	4.94140	-16.51202	3.32831
3.720	-4.102	.00000	-5.00000	.13790	-.16370	4.48009	5.16115	-17.39619	3.09462
3.669	-.174	.00000	-5.00000	.03520	-.19900	4.70953	5.61887	-17.62991	3.32390
3.675	3.674	.00000	-5.00000	-.05820	-.21850	4.02434	5.84493	-17.85196	3.55098
3.705	5.649	.00000	-5.00000	-.09050	-.20850	4.93585	5.61701	-17.85196	3.77915
	GRADIENT	.00000	-.00000	-.02522	-.00705	-.05820	.08803	-.05861	.05858

IA138 AMES 246-1-97 OTS POWER OFF (T3D030) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

ELV-IB =	.000	ELV-OB =	2.000
MACH =	2.500	SRBPR =	.000
SSMEPR =	.000		

RUN NO. 201/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.284	-6.392	.00000	2.00000	.04650	-.25530	-2.18645	-1.51143	-3.33881	-.82334
-4.387	-4.373	.00000	2.00000	-.01630	-.26480	-1.98069	-1.04000	-3.53501	-1.27247
-4.418	-.124	.00000	2.00000	-.14320	-.28710	-1.93273	-1.03759	-3.29911	-.81356
-4.218	4.035	.00000	2.00000	-.21090	-.29690	-2.62111	-1.72481	-3.76202	-.81517
-4.143	6.050	.00000	2.00000	-.23040	-.29030	-1.25161	-.35438	-3.76078	-.35818
	GRADIENT	.00000	.00000	-.02317	-.00382	-.13553	-.08115	-.02670	.05458

RUN NO. 202/ 0 RN/L = 2.88 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.148	-6.442	.00000	2.00000	.12690	-.20500	-1.94428	-1.50239	-4.00612	-1.04777
-.155	-4.504	.00000	2.00000	.07190	-.21380	-2.40167	-1.73111	-3.77577	-.58888
-.136	-.474	.00000	2.00000	-.04790	-.24120	-1.94428	-.81450	-4.46430	-.58908
-.115	3.562	.00000	2.00000	-.14280	-.26350	-1.94042	-1.04172	-4.91269	-.81679
-.099	5.570	.00000	2.00000	-.17330	-.24760	-1.48265	-.81261	-4.68251	-1.04534
	GRADIENT	.00000	.00000	-.02662	-.00615	.05717	.08544	-.14095	-.02826

RUN NO. 203/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.883	-6.437	.00000	2.00000	.19260	-.16090	-1.25410	-1.04137	-4.45394	-.81652
3.980	-4.459	.00000	2.00000	.15280	-.18100	-1.25410	-.58385	-5.36819	-.58771
4.100	-.254	.00000	2.00000	.04780	-.20160	-1.02519	-.35496	-5.59489	-.81625
4.013	3.922	.00000	2.00000	-.05440	-.22910	-.79671	-1.04103	-5.82338	-.58751
3.980	5.947	.00000	2.00000	-.08860	-.22140	-1.25368	-.58365	-5.82338	-.81625
	GRADIENT	.00000	.00000	-.02472	-.00574	.05457	-.05442	-.05431	-.00004

IA138 AMES 246-1-97 OTS POWER ON (T3D031) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	197.262	SSMEPR =	372.504
ELV-IB =	10.000	ELV-OB =	-2.000
MACH =	1.550		

RUN NO. 35/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.131	-7.818	10.00000	-2.00000	.11880	.20860	363.93800	361.51660	216.39680	197.30870
-4.125	-5.845	10.00000	-2.00000	.03610	.07390	364.04440	361.51660	216.39680	196.77650
-4.110	-3.862	10.00000	-2.00000	-.04410	-.01580	373.65970	371.13090	216.48470	197.03060
-4.025	.036	10.00000	-2.00000	-.18370	-.07950	372.59570	370.38620	216.53790	197.03060
-4.026	3.902	10.00000	-2.00000	-.30350	-.10270	373.74880	371.06130	216.89150	197.01860
	GRADIENT	.00000	.00000	-.03342	-.01120	.01108	-.00922	.05234	-.00154

RUN NO. 36/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.293	-7.785	10.00000	-2.00000	.12570	.38950	372.93190	370.56200	216.87550	197.04260
-.269	-5 815	10.00000	-2.00000	.07520	.24640	375.13180	372.65410	217.26670	197.26750
-.253	-3.810	10.00000	-2.00000	.00950	.08130	375.89430	373.47120	217.28240	197.24340
-.193	.148	10.00000	-2.00000	-.10410	-.04710	374.79470	372.79660	217.56720	197.36190
-.193	4.252	10.00000	-2.00000	-.22340	-.08570	372.91500	370.49240	217.38880	197.40290
	GRADIENT	-.00000	.00000	-.02889	-.02065	-.37013	-.37070	.01285	.01973

RUN NO. 37/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.631	-7.857	10.00000	-2.00000	.10940	.53280	373.16380	370.95480	217.31680	197.49720
3.672	-5.874	10.00000	-2.00000	.07050	.41740	373.65970	371.29030	217.28240	197.29660
3.677	-3.873	10.00000	-2.00000	.02010	.28810	373.80200	371.53960	217.84850	197.55040
3.622	.054	10.00000	-2.00000	-.04690	.02550	373.21700	370.90160	217.68900	197.44400
3.631	3.904	10.00000	-2.00000	-.10600	-.07020	374.06790	371.85860	217.63580	197.55670
	GRADIENT	-.00000	.00000	-.01622	-.04614	.03359	.04035	-.02740	.01354

IA138 AMES 246-1-97 OTS POWER ON (T3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 38/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.084	-5.827	10.00000	-2.00000	-.14930	.03290	480.97560	478.54760	303.50490	275.03560
-4.071	-3.876	10.00000	-2.00000	-.20090	-.02990	481.59030	479.00880	303.71390	275.02220
-3.988	.021	10.00000	-2.00000	-.31430	-.14240	481.90940	479.09350	303.91500	275.35910
-3.984	3.885	10.00000	-2.00000	-.43880	-.19750	481.28540	478.78000	303.81450	275.26780
-4.007	5.882	10.00000	-2.00000	-.50290	-.18070	481.98680	479.17110	303.68290	275.04960
	GRADIENT	-.00000	.00000	-.03065	-.02160	-.03911	-.02941	.01302	.03172

RUN NO. 39/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.221	-5.834	10.00000	-2.00000	-.11450	.07230	481.98680	479.48050	301.43770	273.81030
-.205	-3.826	10.00000	-2.00000	-.15970	-.01250	481.59960	479.01610	301.20530	273.57790
-.155	.133	10.00000	-2.00000	-.26660	-.09090	482.91630	480.10010	301.51510	274.12010
-.142	4.238	10.00000	-2.00000	-.34650	-.19110	482.06450	479.48050	301.28270	273.81030
-.133	6.226	10.00000	-2.00000	-.40710	-.22130	481.37180	478.71000	301.92460	274.13330
	GRADIENT	.00000	.00000	-.02314	-.02216	.05603	.05532	.00919	.02818

RUN NO. 40/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.693	-5.874	10.00000	-2.00000	-.05050	.15540	481.44020	478.62520	301.26030	273.56470
3.721	-3.889	10.00000	-2.00000	-.08520	.06450	481.59500	478.85740	300.95070	273.79690
3.665	.041	10.00000	-2.00000	-.17590	-.06590	481.51760	478.85740	300.71850	273.71950
3.671	3.888	10.00000	-2.00000	-.24400	-.13540	482.37430	479.63550	300.81840	273.65550
3.702	5.867	10.00000	-2.00000	-.26370	-.16020	482.37430	479.48050	301.28270	273.96530
	GRADIENT	-.00000	.00000	-.02043	-.02573	.09978	.09970	-.01716	-.01819

IA138 AMES 24G-1-97 OTS POWER ON (T3D033) (19 OCT 78)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.6800	IN. XO
LREF	=	474.8100	INCHES	YMRP	=	.0000	IN. YO
BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0100					

PARAMETRIC DATA

SRBPR	=	464.703	SSMEPR	=	745.648
ELV-IB	=	10.000	ELV-OB	=	-2.000
MACH	=	2.200			

RUN NO. 44/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.077	-5.339	10.00000	-2.00000	-.28870	-.09370	744.23780	739.77980	512.95780	464.15360
-4.060	-3.357	10.00000	-2.00000	-.33690	-.12830	744.77080	740.16850	513.12790	463.87770
-3.964	.543	10.00000	-2.00000	-.43680	-.19190	745.09670	740.63840	512.95760	464.29660
-3.968	4.405	10.00000	-2.00000	-.49340	-.21760	745.73410	741.27290	512.15210	464.31790
-3.988	6.400	10.00000	-2.00000	-.54890	-.18500	742.66260	738.63400	512.52830	463.86720
	GRADIENT	-.00000	.00000	-.02017	-.01151	.12404	.14225	-.12558	.05680

RUN NO. 45/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.175	-5.318	10.00000	-2.00000	-.20440	-.05090	748.10380	744.50370	512.52830	464.43990
-.158	-3.307	10.00000	-2.00000	-.23290	-.10170	748.35180	743.89140	512.41210	463.73440
-.150	.659	10.00000	-2.00000	-.33670	-.17540	745.91700	741.60010	512.12550	464.16410
-.094	4.756	10.00000	-2.00000	-.39850	-.22210	746.52860	743.07200	512.52830	464.72610
-.081	6.745	10.00000	-2.00000	-.42910	-.21420	746.24240	741.78370	511.95580	464.58330
	GRADIENT	-.00000	.00000	-.02051	-.01491	-.22405	-.09909	.01487	.12307

RUN NO. 46/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.728	-5.371	10.00000	-2.00000	-.08480	-.06520	746.09910	741.78370	511.66940	465.29910
3.733	-3.368	10.00000	-2.00000	-.12790	-.10380	745.38310	741.92700	511.81270	465.01270
3.684	.562	10.00000	-2.00000	-.22300	-.15520	745.66970	740.92460	511.95580	465.58540
3.683	4.406	10.00000	-2.00000	-.31130	-.19040	745.52640	741.64060	511.81270	465.87180
3.713	6.386	10.00000	-2.00000	-.31660	-.17520	745.85180	741.96750	511.92920	466.29000
	GRADIENT	.00000	.00000	-.02359	-.01115	.01864	-.03766	.00014	.11064

IA138 AMES 246-1-97 OTS POWER ON (T3D034) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SREPR =	750.050	SSMEPR =	1331.318
ELV-IB =	10.000	ELV-OB =	-2.000
MACH =	2.500		

RUN NO. 55/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.030	-8.056	10.00000	-2.00000	-.23200	-.12410	1330.64600	1322.58501	807.94780	750.84890
-4.025	-6.084	10.00000	-2.00000	-.25610	-.15770	1335.67300	1327.61099	805.66360	751.07760
-4.011	-4.103	10.00000	-2.00000	-.29250	-.17630	1336.13100	1328.29700	808.63330	752.22020
-3.927	-.202	10.00000	-2.00000	-.36850	-.20620	1335.90199	1328.29700	808.17650	751.76340
-3.926	3.663	10.00000	-2.00000	-.44940	-.21510	1331.78900	1323.72701	806.34890	751.53490
-3.946	5.659	10.00000	-2.00000	-.46010	-.20080	1332.70300	1324.87000	805.43480	751.76340
	GRADIENT	.00000	.00000	-.02020	-.00500	-.55832	-.58755	-.29388	-.08828

RUN NO. 54/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.129	-6.060	10.00000	-2.00000	-.16120	-.14240	1331.33099	1323.27000	808.17650	748.56350
-.113	-4.051	10.00000	-2.00000	-.19700	-.16740	1331.33099	1323.95599	807.03420	749.02080
-.105	-.080	10.00000	-2.00000	-.27100	-.20290	1332.24500	1324.18401	807.49100	749.24950
-.049	4.016	10.00000	-2.00000	-.34600	-.21610	1331.56000	1323.72701	806.80570	750.84890
-.036	6.006	10.00000	-2.00000	-.37150	-.19910	1332.47400	1323.95599	807.71970	751.07760
	GRADIENT	.00000	.00000	-.01847	-.00602	.02736	-.02882	-.02906	.22748

RUN NO. 53/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.775	-4.111	10.00000	-2.00000	-.10170	-.15170	1314.85500	1307.02400	811.41500	748.35470
3.727	-.182	10.00000	-2.00000	-.15980	-.17950	1330.18900	1322.58501	808.40500	747.87820
3.734	3.664	10.00000	-2.00000	-.24790	-.19960	1330.87399	1322.58501	808.63330	749.93480
3.763	5.642	10.00000	-2.00000	-.26950	-.19750	1332.24500	1324.18401	808.86180	748.79220
	GRADIENT	-.00000	.00000	-.01879	-.00616	2.06716	2.00867	-.35928	.20208

IA138 AMES 246-1-97 OTS POWER ON (T30035) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	274.113	SSMEPR =	481.102
ELV-IB =	10.000	ELV-OB =	-5.000
MACH =	1.800		

RUN NO. 63/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.327	-6.181	10.00000	-5.00000	-.17570	.13190	481.18410	477.18970	292.82030	274.36470
-4.429	-4.164	10.00000	-5.00000	-.23770	-.00030	480.41140	476.57150	293.05200	274.36470
-4.467	.093	10.00000	-5.00000	-.36410	-.12550	481.57080	477.57620	293.59330	274.36470
-4.260	4.259	10.00000	-5.00000	-.50770	-.17300	481.10690	477.11230	293.43870	274.51930
-4.183	6.273	10.00000	-5.00000	-.56740	-.15170	480.48440	476.49120	293.49610	274.42850
	GRADIENT	.00000	-.00000	-.03205	-.02053	.08325	.06482	.04620	.01829

RUN NO. 62/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.185	-5.799	10.00000	-5.00000	-.14610	.15990	480.87920	476.88350	292.60770	273.91410
-.159	-3.829	10.00000	-5.00000	-.19510	.02390	479.56470	475.64650	292.60770	274.14600
-.164	.136	10.00000	-5.00000	-.30920	-.07290	479.87010	475.72140	292.82030	274.05540
-.104	4.238	10.00000	-5.00000	-.39100	-.16550	480.41140	476.26250	292.66580	274.36470
-.090	6.227	10.00000	-5.00000	-.45030	-.19710	480.10210	475.95340	292.97490	274.21020
	GRADIENT	-.00000	.00000	-.02426	-.02347	.10512	.07668	.00694	.02739

RUN NO. 61/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.889	-6.218	10.00000	-5.00000	-.06690	.17650	480.49270	476.18750	292.06640	273.83690
3.983	-4.243	10.00000	-5.00000	-.11100	.08720	481.56620	477.34110	291.56450	273.50150
4.100	-.036	10.00000	-5.00000	-.20000	-.05080	486.74950	482.52250	292.12450	273.82370
4.015	4.142	10.00000	-5.00000	-.28190	-.12890	480.48880	476.41700	292.27910	273.82370
3.993	6.173	10.00000	-5.00000	-.30100	-.14930	481.64790	477.49900	292.12450	273.97830
	GRADIENT	-.00000	.00000	-.02038	-.02578	-.12686	-.10870	.08528	.03847

IA138 AMES 246-1-97 OTS POWER ON (T3D036) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN. XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN. YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	462.854	SSMEPR =	744.415
ELV-IB =	10.000	ELV-OB =	-5.000
MACH =	2.200		

RUN NO. 64/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.317	-5.659	10.00000	-5.00000	-.31510	-.04610	745.75830	739.38870	494.66750	462.26980
-4.417	-3.638	10.00000	-5.00000	-.37310	-.09420	745.25020	739.01980	494.85180	462.57570
-4.453	.615	10.00000	-5.00000	-.48050	-.16940	747.25240	740.87870	495.13770	462.28980
-4.243	4.780	10.00000	-5.00000	-.54910	-.20630	745.57590	739.34740	495.40280	462.27980
-4.168	6.796	10.00000	-5.00000	-.59160	-.18950	743.71750	737.48900	495.54570	462.27980
	GRADIENT	-.00000	.00000	-.02093	-.01333	.04020	.04031	.06545	-.03526

RUN NO. 65/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.188	-5.281	10.00000	-5.00000	-.23170	-.02320	743.57470	737.06050	495.54570	462.56570
-.162	-3.307	10.00000	-5.00000	-.26080	-.08460	747.10960	741.02170	495.42380	462.71880
-.149	.652	10.00000	-5.00000	-.37330	-.15640	746.04370	739.96040	495.66800	462.55570
-.098	4.760	10.00000	-5.00000	-.43950	-.19440	743.24850	736.87500	495.56670	463.14750
-.085	6.750	10.00000	-5.00000	-.46840	-.19240	741.57280	735.63090	495.54570	463.13720
	GRADIENT	-.00000	.00000	-.02211	-.01358	-.47990	-.51552	.01745	.05371

RUN NO. 66/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.901	-5.694	10.00000	-5.00000	-.10200	-.00390	741.71580	735.48780	495.11690	462.85160
3.995	-3.720	10.00000	-5.00000	-.14580	-.06190	746.57640	740.49070	495.26000	463.13720
4.111	.486	10.00000	-5.00000	-.23720	-.13310	741.96120	735.87400	495.28080	463.71950
4.020	4.664	10.00000	-5.00000	-.33850	-.17420	743.43120	737.20340	496.11770	463.70900
3.988	6.696	10.00000	-5.00000	-.34280	-.18300	743.43120	737.06050	495.54570	463.56620
	GRADIENT	-.00000	.00000	-.02299	-.01340	-.37599	-.39292	.10220	.06829

IA138 AMES 248-1-97 OTS POWER ON (T30037) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	747.175	SSMEPR =	1328.316
ELV-IB =	10.000	ELV-OB =	-5.000
MACH =	2.500		

RUN NO. 75/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.018	-6.051	10.00000	-5.00000	-.29330	-.10940	1330.49400	1320.30901	792.95070	747.84080
-4.008	-4.099	10.00000	-5.00000	-.32870	-.14470	1329.58099	1318.94200	794.54790	748.29710
-3.928	-.199	10.00000	-5.00000	-.40530	-.18600	1327.75600	1317.11600	793.17870	747.15650
-3.924	3.663	10.00000	-5.00000	-.48390	-.20530	1325.93100	1315.29100	793.40720	748.29710
-3.946	5.659	10.00000	-5.00000	-.49740	-.19460	1324.33501	1313.23801	793.86350	748.52510
	GRADIENT	.00000	-.00000	-.01999	-.00781	-.47022	-.47036	-.14728	-.00047

RUN NO. 74/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.145	-6.448	10.00000	-5.00000	-.13420	-.12050	1330.95000	1320.76700	793.63550	747.15650
-.152	-4.511	10.00000	-5.00000	-.21990	-.14640	1327.05400	1316.18300	793.66940	746.71900
-.133	-.491	10.00000	-5.00000	-.30000	-.18600	1327.30099	1316.43201	792.95070	746.70040
-.114	3.558	10.00000	-5.00000	-.37820	-.18900	1323.42200	1312.78200	794.31980	747.38480
-.099	5.571	10.00000	-5.00000	-.40900	-.19220	1324.77200	1314.12801	794.12600	747.85990
	GRADIENT	-.00000	.00000	-.01962	-.00528	-.45026	-.42162	.08068	.08254

RUN NO. 73/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.745	-6.091	10.00000	-5.00000	-.11120	-.11460	1333.23199	1322.13499	794.31980	745.78780
3.776	-4.108	10.00000	-5.00000	-.13450	-.13840	1327.52800	1316.43201	794.31980	746.47220
3.726	-.180	10.00000	-5.00000	-.19220	-.17180	1330.03799	1319.16901	794.09160	746.47220
3.733	3.670	10.00000	-5.00000	-.27910	-.19240	1331.17900	1320.30901	793.86350	746.24410
3.763	5.647	10.00000	-5.00000	-.30440	-.19620	1331.16200	1320.28999	794.12600	746.71900
	GRADIENT	.00000	-.00000	-.01858	-.00695	.46997	.49912	-.05866	-.02823

IA138 AMES 246-1-97 OTS POWER ON (T3D038) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0030 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	195.714	SSMEPR =	372.069
ELV-IB =	10.000	ELV-OB =	-7.000
MACH =	1.550		

RUN NO. 82/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.132	-7.818	10.00000	-7.00000	.10780	.52280	372.06910	369.70830	215.59920	195.82080
-4.127	-5.845	10.00000	-7.00000	.02670	.36860	372.12260	369.76150	215.70550	195.71450
-4.112	-3.862	10.00000	-7.00000	-.05690	.25770	372.31840	369.90530	215.90000	195.66250
-4.032	.039	10.00000	-7.00000	-.19670	.11720	372.47750	370.22360	215.90000	195.80940
-4.025	3.905	10.00000	-7.00000	-.33470	.04890	372.95530	370.64840	216.11240	195.91560
	GRADIENT	.00000	.00000	-.03576	-.02689	.08193	.09564	.02730	.00681

RUN NO. 81/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.315	-8.184	10.00000	-7.00000	.12300	.67800	372.10600	369.69290	214.57190	195.70320
-.323	-6.257	10.00000	-7.00000	.08000	.54940	372.22850	369.86770	214.80210	195.71450
-.314	-4.272	10.00000	-7.00000	.00810	.37810	371.89380	369.63960	214.89070	195.49080
-.263	-.230	10.00000	-7.00000	-.11250	.14760	371.66500	369.41160	215.19150	195.79790
-.258	3.804	10.00000	-7.00000	-.22270	.04870	371.78760	369.53340	215.47500	195.80940
	GRADIENT	.00000	.00000	-.02858	-.04079	-.01316	-.01316	.07235	.03946

RUN NO. 80/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.774	-8.200	10.00000	-7.00000	.11510	.81670	371.89380	369.37430	212.92520	195.43760
3.855	-6.248	10.00000	-7.00000	.06880	.70460	371.85690	369.33670	213.31430	195.55520
3.944	-4.227	10.00000	-7.00000	.00930	.58090	371.85690	369.38960	213.36730	195.66150
4.062	-.021	10.00000	-7.00000	-.05720	.27780	371.78760	369.42720	213.40340	195.65010
3.976	4.159	10.00000	-7.00000	-.12140	.08530	372.01640	369.65530	213.73940	195.76770
	GRADIENT	-.00000	-.00000	-.01558	-.05911	.01898	.03166	.04433	.01265

IA138 AMES 246-1-97 OTS POWER ON (T3D039) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6600 IN. XO		
LREF =	474.6100 INCHES	YMRP =	.0000 IN. YO		
BREF =	536.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRSPR =	273.712	SSMEPR =	478.641
ELV-IB =	10.000	ELV-OB =	-7.000
MACH =	1.800		

RUN NO. 83/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.082	-5.333	10.00000	-7.00000	-.16840	.24810	479.00020	476.24930	301.53710	273.01950
-4.073	-3.878	10.00000	-7.00000	-.21990	.14960	478.76860	476.09450	301.53710	273.25100
-3.991	.023	10.00000	-7.00000	-.33550	-.03640	478.61790	475.78830	302.02320	273.41870
-3.986	3.889	10.00000	-7.00000	-.46160	-.09780	478.07740	475.32500	301.86870	273.41870
-4.005	5.882	10.00000	-7.00000	-.52630	-.07830	478.69870	475.94560	302.20020	273.74070
	GRADIENT	-.00000	.00000	-.03111	-.03187	-.08890	-.09903	.04281	.02162

RUN NO. 84/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.210	-6.222	10.00000	-7.00000	-.11790	.34500	480.38960	477.56150	301.92330	273.63720
-.216	-4.283	10.00000	-7.00000	-.17780	.21170	481.08450	478.33370	302.30960	273.79150
-.193	-.251	10.00000	-7.00000	-.27760	.03650	481.00730	478.33370	302.30960	273.63720
-.173	3.791	10.00000	-7.00000	-.36070	-.07960	481.24320	478.49170	302.33230	273.95950
-.156	5.800	10.00000	-7.00000	-.41990	-.10870	481.09330	478.34080	302.66410	273.97240
	GRADIENT	.00000	-.00000	-.02265	-.03607	.01967	.01958	.00281	.02083

RUN NO. 85/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.686	-5.873	10.00000	-7.00000	-.06460	.37870	480.39380	477.64210	302.56400	273.88210
3.718	-3.887	10.00000	-7.00000	-.10350	.26470	480.08500	477.56470	302.56400	273.95950
3.671	.041	10.00000	-7.00000	-.19450	.07570	480.00370	477.40700	302.61870	273.94600
3.675	3.894	10.00000	-7.00000	-.26400	-.03860	479.92650	477.40700	302.54150	274.02340
3.704	5.870	10.00000	-7.00000	-.28590	-.06270	479.23190	476.86670	302.69580	274.02340
	GRADIENT	.00000	-.00000	-.02064	-.03901	-.02037	-.02033	-.00284	.00817

IA138 AMES 246-1-97 OTS POWER ON (T3D040) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	463.681	SSMEPR =	738.664
ELV-IB =	10.000	ELV-OB =	-7.000
MACH =	2.200		

RUN NO. 94/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.070	-5.310	10.00000	-7.00000	-.30450	-.00570	734.12720	731.14380	511.12300	463.48320
-4.058	-3.358	10.00000	-7.00000	-.35440	-.05560	746.74370	743.47800	511.38330	463.61600
-3.975	.539	10.00000	-7.00000	-.45750	-.12480	736.55710	733.71660	510.83690	463.76900
-3.962	4.402	10.00000	-7.00000	-.51780	-.14970	749.45850	746.19340	510.81150	463.75880
-3.983	6.394	10.00000	-7.00000	-.56120	-.14350	740.41580	737.14790	510.83690	464.34110
	GRADIENT	.00000	.00000	-.02106	-.01213	.34554	.34577	-.07378	.01843

RUN NO. 93/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.162	-5.314	10.00000	-7.00000	-.21450	.01410	728.55300	724.71020	511.98120	463.34010
-.148	-3.303	10.00000	-7.00000	-.24380	-.04670	735.84230	732.28710	511.98120	464.05520
-.153	.656	10.00000	-7.00000	-.35200	-.11470	728.83910	725.28220	511.26610	463.34010
-.088	4.750	10.00000	-7.00000	-.42010	-.16250	742.31450	738.90500	510.95410	463.33010
-.074	6.735	10.00000	-7.00000	-.44900	-.15320	739.55830	736.00390	510.69410	463.91210
	GRADIENT	-.00000	-.00000	-.02112	-.01437	.81779	.83599	-.12726	-.08955

RUN NO. 92/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.705	-5.352	10.00000	-7.00000	-.10350	.04970	726.02660	722.18430	512.09810	463.75880
3.734	-3.368	10.00000	-7.00000	-.14790	-.01900	743.41750	739.86430	511.98120	463.62600
3.680	.559	10.00000	-7.00000	-.24070	-.08610	749.84890	746.01100	511.83810	463.48320
3.683	4.405	10.00000	-7.00000	-.32780	-.12800	739.12960	735.43240	511.98120	463.48320
3.709	6.375	10.00000	-7.00000	-.33460	-.12450	739.12960	735.43240	512.41040	463.91210
	GRADIENT	.00000	-.00000	-.02315	-.01403	-.54398	-.56269	-.00013	-.01843

!A138 AMES 246-1-97 OTS POWER ON (73D041) (18 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1075.6600 IN.	XO
LREF =	474.6100 INCHES	YMRP =	.0000 IN.	YO
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO
SCALE =	.0100			

PARAMETRIC DATA

SRSPR =	749.014	SSMEPR =	1318.971
ELV-IB =	10.000	ELV-OB =	2.000
MACH =	2.500		

RUN NO. 224/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.289	-6.392	10.00000	2.00000	-.27100	-.23910	1321.59399	1310.65800	801.98270	750.50660
-4.390	-4.373	10.00000	2.00000	-.31570	-.25140	1319.78300	1309.08299	801.48800	750.25780
-4.427	-.124	10.00000	2.00000	-.41050	-.28730	1319.34599	1308.64900	799.39400	749.55200
-4.220	4.036	10.00000	2.00000	-.47700	-.30890	1317.30901	1306.61800	799.58620	748.84690
-4.147	6.050	10.00000	2.00000	-.50040	-.30530	1318.22301	1307.30200	799.12920	748.84690
	GRADIENT	-.00000	.00000	-.01919	-.00684	-.29352	-.29245	-.22710	-.16777

RUN NO. 225/ 0 RN/L = 2.91 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.147	-6.451	10.00000	2.00000	-.17820	-.15840	1316.64400	1306.18500	798.63570	749.05570
-.156	-4.508	10.00000	2.00000	-.21400	-.19560	1317.12300	1306.66499	799.28470	749.49220
-.136	-.477	10.00000	2.00000	-.29100	-.23640	1315.31599	1305.54800	797.87920	749.01610
-.116	3.566	10.00000	2.00000	-.36960	-.27030	1315.77200	1306.00400	797.65060	748.33180
-.100	5.574	10.00000	2.00000	-.40600	-.26650	1315.79401	1305.57201	797.15870	748.76830
	GRADIENT	.00000	.00000	-.01927	-.00925	-.16721	-.08178	-.20234	-.14375

RUN NO. 226/ 0 RN/L = 2.89 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.883	-6.442	10.00000	2.00000	-.09120	-.15090	1315.10899	1305.11600	797.15870	748.31200
3.982	-4.463	10.00000	2.00000	-.11490	-.17310	1314.63100	1304.88501	797.19410	748.10330
4.103	-.255	10.00000	2.00000	-.17120	-.20140	1316.02200	1306.25600	796.47390	748.53980
4.014	3.925	10.00000	2.00000	-.26150	-.23690	1314.85899	1305.09200	795.50980	748.55980
3.981	5.953	10.00000	2.00000	-.28780	-.23960	1315.54401	1305.77600	796.98610	749.01610
	GRADIENT	-.00000	.00000	-.01758	-.00689	.02752	.02740	-.08168	.05448

IA138 AMES 246-1-97 OTS POWER ON (T3D042) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	196.334	SSMEPR =	371.871
ELV-IB =	12.000	ELV-OB =	-2.000
MACH =	1.550		

RUN NO. 96/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.134	-7.808	12.00000	-2.00000	-.04490	-.05010	371.91580	368.76900	207.41260	195.91110
-4.128	-5.843	12.00000	-2.00000	-.12710	-.12210	371.59720	368.39720	207.46580	195.96420
-4.114	-3.858	12.00000	-2.00000	-.21280	-.18290	372.44700	369.24730	207.35940	195.85800
-4.030	.042	12.00000	-2.00000	-.34530	-.23190	372.39380	369.19410	207.46580	195.91110
-4.029	3.901	12.00000	-2.00000	-.46770	-.25520	371.73970	368.59400	210.00050	198.13070
-4.043	5.900	12.00000	-2.00000	-.50330	-.24470	371.22530	368.23800	208.31610	196.49570
	GRADIENT	.00000	.00000	-.03285	-.00932	-.09101	-.08407	.33981	.29239

RUN NO. 97/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.260	-8.170	12.00000	-2.00000	-.01500	.17260	372.09180	368.94430	208.49130	196.50740
-.268	-6.245	12.00000	-2.00000	-.05650	.03830	370.81670	367.72190	208.43800	196.24160
-.257	-4.262	12.00000	-2.00000	-.13520	-.07720	372.37430	369.22560	208.66660	196.35980
-.240	-.230	12.00000	-2.00000	-.25520	-.19420	372.90600	369.75730	208.71980	196.35980
-.211	3.803	12.00000	-2.00000	-.36490	-.20380	372.99510	369.84740	209.12930	196.29480
-.195	5.815	12.00000	-2.00000	-.43080	-.21740	371.41770	368.32200	209.09220	196.30660
	GRADIENT	.00000	.00000	-.02848	-.01570	.07697	.07709	.05737	-.00806

RUN NO. 98/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.769	-8.187	12.00000	-2.00000	-.01540	.37720	371.36450	368.26880	209.51760	196.20020
3.851	-6.243	12.00000	-2.00000	-.05340	.25240	371.15210	368.10940	209.51760	196.35980
3.941	-4.225	12.00000	-2.00000	-.11310	.12850	371.31130	368.21560	209.67720	196.35980
4.057	-.019	12.00000	-2.00000	-.18320	-.08710	372.10890	368.96000	209.57070	196.20020
3.969	4.158	12.00000	-2.00000	-.24470	-.18430	371.93240	368.99110	209.71410	196.18850
3.938	6.188	12.00000	-2.00000	-.27620	-.19150	371.89620	368.85380	209.94310	196.35980
	GRADIENT	.00000	.00000	-.01570	-.03733	.07422	.08068	.00437	-.02045

IA13S AMES 24G-1-S7 OTS POWER ON (Y3D043) (18 OCT 76)

REFERENCE DATA

SREF =	2690.0000 SQ FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	935.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRSPR =	274.808	SSMEPR =	475.814
ELV-IB =	12.000	ELV-OB =	-2.000
MACH =	1.800		

RUN NO. 107/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.273	-8.171	12.00000	-2.00000	-.19650	.04110	475.68020	472.71510	302.42110	275.14820
-4.365	-6.206	12.00000	-2.00000	-.28270	-.05870	477.45920	474.57200	302.88570	275.38040
-4.426	-4.157	12.00000	-2.00000	-.34430	-.11780	476.21890	473.40970	302.39870	275.05740
-4.466	.096	12.00000	-2.00000	-.40980	-.24140	475.52950	472.71510	302.48860	275.30300
-4.258	4.258	12.00000	-2.00000	-.60960	-.29520	476.66580	473.85310	302.57590	275.39040
-4.183	6.271	12.00000	-2.00000	-.66610	-.26090	477.14650	474.26030	302.53090	275.52150
	GRADIENT	-.00000	.00000	-.03158	-.02111	.05470	.06375	.02107	.03646

RUN NO. 106/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.204	-7.795	12.00000	-2.00000	-.15720	.11490	475.91210	472.87010	302.11180	274.60640
-.177	-5.828	12.00000	-2.00000	-.23390	-.02310	475.68020	472.79250	302.26660	274.76150
-.161	-3.822	12.00000	-2.00000	-.28900	-.08040	476.68290	473.95090	302.01200	274.51560
-.164	.137	12.00000	-2.00000	-.40250	-.16950	477.37890	474.49220	302.24390	274.90260
-.106	4.239	12.00000	-2.00000	-.48260	-.27430	477.37890	474.64700	302.08910	274.82520
-.093	6.225	12.00000	-2.00000	-.54310	-.30400	476.76290	474.03050	302.34380	275.22550
	GRADIENT	-.00000	.00000	-.02400	-.02407	.08587	.08610	.00929	.03808

RUN NO. 105/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.810	-8.207	12.00000	-2.00000	-.07920	.17220	473.19510	470.00320	302.15330	274.77080
3.890	-6.256	12.00000	-2.00000	-.14030	.04350	467.63430	464.67850	300.88330	273.46900
3.980	-4.238	12.00000	-2.00000	-.17830	-.02700	477.91630	474.95360	301.44780	274.34740
4.097	-.035	12.00000	-2.00000	-.27800	-.12660	475.75480	472.63620	302.01200	274.26370
4.010	4.140	12.00000	-2.00000	-.36500	-.20830	477.61060	474.72440	301.93430	274.43850
3.980	6.171	12.00000	-2.00000	-.38350	-.23930	475.83500	473.02490	302.11180	274.60640
	GRADIENT	.00000	.00000	-.02229	-.02164	-.03704	-.02796	.05815	.01084

IA138 AMES 246-1-97 OTS POWER ON

(T3D044) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN. XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN. YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	274.742	SSMEPR =	477.942
ELV-IB =	12.000	ELV-OB =	-5.000
MACH =	1.800		

RUN NO. 148/ 0 RN/L = 3.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.332	-6.169	12.00000	-5.00000	-.24460	-.04300	476.78860	474.52730	291.87210	275.81670
-4.431	-4.149	12.00000	-5.00000	-.29350	-.08320	478.15870	473.98510	291.48490	276.04930
-4.466	.059	12.00000	-5.00000	-.42450	-.20690	477.07500	472.89530	291.11790	275.23290
-4.257	4.260	12.00000	-5.00000	-.56980	-.25880	476.61400	472.35600	291.05960	275.32400
-4.184	6.272	12.00000	-5.00000	-.62830	-.23640	476.22660	471.89160	291.05960	275.47900
	GRADIENT	.00000	-.00000	-.03285	-.02091	-.18515	-.19396	-.05070	-.08662

RUN NO. 149/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.208	-6.225	12.00000	-5.00000	-.20500	.09270	475.53030	471.27250	290.36300	274.78170
-.217	-4.285	12.00000	-5.00000	-.25410	-.02520	474.90800	470.65230	290.49900	274.64550
-.196	-.254	12.00000	-5.00000	-.36100	-.12330	475.29790	470.73100	290.44070	274.93680
-.176	3.783	12.00000	-5.00000	-.45360	-.21130	481.64480	477.23070	290.28590	274.70430
-.160	5.796	12.00000	-5.00000	-.50670	-.24970	481.10770	476.84690	290.07230	274.48510
	GRADIENT	.00000	.00000	-.02473	-.02307	.83517	.81555	-.02642	-.01751

RUN NO. 150/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.823	-6.216	12.00000	-5.00000	-.12570	.15800	479.40040	475.06400	289.89890	274.08450
3.923	-4.240	12.00000	-5.00000	-.16240	.04030	479.24560	474.83200	289.66670	273.85210
4.042	-.033	12.00000	-5.00000	-.25520	-.08200	478.70700	474.36990	289.76270	273.78760
3.953	4.147	12.00000	-5.00000	-.34420	-.16530	478.32010	474.13770	289.76270	273.86500
3.918	6.175	12.00000	-5.00000	-.36740	-.20150	478.09520	473.83280	290.11010	273.89180
	GRADIENT	.00000	-.00000	-.02168	-.02452	-.11036	-.08281	.01146	.00152

IA138 AMES 246-1-97 OYS POWER ON (T30045) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SREFR =	196.380	SSMEFR =	370.730
ELV-IB =	12.000	ELV-OB =	-7.000
MACH =	1.550		

RUN NO. 133/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.134	-7.816	12.00000	-7.00000	-.01600	.32340	370.13870	367.24410	213.63910	196.23160
-4.127	-5.842	12.00000	-7.00000	-.10040	.17510	370.04830	367.15310	213.92260	196.24350
-4.113	-3.859	12.00000	-7.00000	-.18080	.05120	369.72980	366.99370	213.76380	196.24350
-4.028	.042	12.00000	-7.00000	-.31090	-.04920	369.65970	366.81910	213.74550	196.33800
-4.025	3.906	12.00000	-7.00000	-.43600	-.09080	369.23380	366.44700	213.50480	196.39110
-4.044	5.897	12.00000	-7.00000	-.47080	-.09610	369.12720	366.44700	213.90480	196.49730
	GRADIENT	-.00000	.00000	-.03287	-.01830	-.06366	-.07038	.01822	.01902

RUN NO. 132/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.249	-7.809	12.00000	-7.00000	.01150	.46260	370.93700	367.98800	212.62960	196.23160
-.230	-5.813	12.00000	-7.00000	-.05090	.31830	371.00680	368.00370	213.01890	196.19030
-.214	-3.806	12.00000	-7.00000	-.12060	.14170	371.16650	368.21630	213.07200	196.34970
-.201	.157	12.00000	-7.00000	-.23670	-.04080	370.84720	367.89750	213.23150	196.45610
-.151	4.255	12.00000	-7.00000	-.34230	-.09020	370.58080	367.73780	213.44410	196.45610
-.136	6.244	12.00000	-7.00000	-.40560	-.09720	370.58080	367.68480	213.39100	196.56240
	GRADIENT	.00000	-.00000	-.02749	-.02868	-.07262	-.05925	.04620	.01313

RUN NO. 131/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.628	-7.851	12.00000	-7.00000	.01320	.62660	371.36300	368.41330	212.57640	196.17850
3.672	-5.871	12.00000	-7.00000	-.03440	.47450	371.96530	368.80100	212.38100	196.72190
3.677	-3.868	12.00000	-7.00000	-.08920	.34180	371.84200	368.78540	212.36380	196.49730
3.629	.063	12.00000	-7.00000	-.15710	.05080	371.69900	368.69480	212.64680	196.29660
3.629	3.908	12.00000	-7.00000	-.21730	-.07000	371.80540	368.85420	212.70000	196.45610
3.659	5.884	12.00000	-7.00000	-.24490	-.08140	371.41600	368.36010	212.73580	196.49730
	GRADIENT	-.00000	-.00000	-.01648	-.05304	-.00482	.00873	.04335	-.00547

IA138 AMES 246-1-97 OTS POWER ON

(T30046) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN. XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN. YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	274.464	SSMEPR =	476.752
ELV-IB =	12.000	ELV-OB =	-7.000
MACH =	1.800		

RUN NO. 134/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.082	-5.828	12.00000	-7.00000	-.26620	.05440	479.81250	476.27200	299.29660	273.96340
-4.074	-3.875	12.00000	-7.00000	-.31410	-.02180	479.06670	475.80620	299.42970	274.18210
-3.992	.026	12.00000	-7.00000	-.42830	-.13600	478.91550	475.57590	299.45140	274.11820
-3.984	3.891	12.00000	-7.00000	-.55150	-.20080	478.21800	474.95700	299.76070	274.50490
-4.006	5.882	12.00000	-7.00000	-.60980	-.18460	477.90840	474.87990	299.52880	274.35010
	GRADIENT	-.00000	.00000	-.03056	-.02304	-.10917	-.10913	.04256	.04147

RUN NO. 135/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.186	-5.797	12.00000	-7.00000	-.22170	.15200	477.21090	474.02910	299.76070	274.27270
-.161	-3.021	12.00000	-7.00000	-.26390	.01990	477.21090	473.95190	300.07010	274.50490
-.163	.140	12.00000	-7.00000	-.37370	-.08930	476.82690	473.49000	300.24680	274.67310
-.104	4.241	12.00000	-7.00000	-.45660	-.19170	476.51390	473.25590	299.76070	274.42750
-.090	6.227	12.00000	-7.00000	-.51370	-.22910	475.89430	472.71460	300.07010	274.81420
	GRADIENT	.00000	.00000	-.02388	-.02624	-.08540	-.08616	-.03885	-.00990

RUN NO. 136/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.682	-5.866	12.00000	-7.00000	-.13050	.19010	475.73930	472.55960	299.68330	274.58200
3.716	-3.884	12.00000	-7.00000	-.16960	.07270	474.88720	471.70900	299.52880	274.35010
3.666	.044	12.00000	-7.00000	-.26570	-.06200	474.73220	471.63180	299.83810	274.73680
3.668	3.895	12.00000	-7.00000	-.33930	-.14420	474.34740	471.24680	299.86010	274.67310
3.698	5.869	12.00000	-7.00000	-.36210	-.17600	474.19020	471.09060	300.30200	274.81420
	GRADIENT	.00000	.00000	-.02183	-.02791	-.06930	-.05929	.04271	.04171

IA138 AMES 246-1-97 OTS POWER ON (T3D047) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	196.379	SSMEPR =	372.181
ELV-IB =	8.000	ELV-OB =	-2.000
MACH =	1.550		

RUN NO. 177/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.134	-7.812	8.00000	-2.00000	.21480	-.02250	372.44920	369.05490	211.99590	196.45810
-4.128	-5.840	8.00000	-2.00000	.13430	-.09560	372.67920	369.33670	212.01290	196.57630
-4.112	-3.857	8.00000	-2.00000	.04170	-.16090	372.64280	369.40600	211.97670	196.64140
-4.032	.042	8.00000	-2.00000	-.09850	-.20290	372.41310	369.01730	211.85330	196.36340
-4.023	3.904	8.00000	-2.00000	-.22880	-.22610	372.39620	369.26760	211.78320	196.56450
	GRADIENT	.00000	.00000	-.03486	-.00840	-.03162	-.01796	-.02494	-.01000

RUN NO. 178/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.260	-8.171	8.00000	-2.00000	.22400	.22050	372.13010	368.89530	211.67680	196.29840
-.267	-6.245	8.00000	-2.00000	.18220	.07080	372.30640	369.01730	211.69370	196.25690
-.256	-4.261	8.00000	-2.00000	.11080	-.04080	372.41310	369.07060	211.74690	196.25690
-.237	-.230	8.00000	-2.00000	-.01040	-.17370	372.16380	368.92700	211.87030	196.64140
-.212	3.807	8.00000	-2.00000	-.12470	-.20260	372.25320	368.85790	211.85330	196.31010
	GRADIENT	.00000	.00000	-.02919	-.02005	-.01981	-.02636	.01319	.00658

RUN NO. 179/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.570	-7.851	8.00000	-2.00000	.18920	.38550	372.05710	368.82060	211.97670	196.42850
3.613	-5.867	8.00000	-2.00000	.14830	.24220	371.73800	368.55470	211.81710	196.37520
3.617	-3.865	8.00000	-2.00000	.09310	.11610	371.72120	368.43240	211.64060	196.09710
3.567	.059	8.00000	-2.00000	.01650	-.09510	371.56150	368.32620	211.85330	196.09710
3.575	3.907	8.00000	-2.00000	-.03590	-.17120	371.79100	368.50120	211.81710	196.32190
	GRADIENT	.00000	.00000	-.01661	-.03702	.00882	.00873	.02281	.02883

IA138 AMES 246-1-97 OTS POWER ON (T3D048) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	196.146	SSMEPR =	1637.358
ELV-IB =	8.000	ELV-OB =	-7.000
MACH =	1.550		

RUN NO. 147/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.146	-7.787	8.00000	-7.00000	.22280	.26590	157.91280	368.56930	213.44140	196.07870
-4.139	-5.830	8.00000	-7.00000	.14260	.12700	2071.52399	368.51610	214.07980	196.23820
-4.124	-3.852	8.00000	-7.00000	.04840	.00090	1323.89400	367.80880	213.95570	196.06690
-4.036	.041	8.00000	-7.00000	-.09280	-.07220	3476.35199	367.64940	213.79620	196.17320
-4.032	3.895	8.00000	-7.00000	-.23510	-.11610	2173.47198	367.17070	213.79620	196.22640
	GRADIENT	.00000	-.00000	-.03659	-.01511	110.38279	-.08230	-.02062	.02060

RUN NO. 146/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.288	-7.756	8.00000	-7.00000	.22290	.41100	391.89670	366.34940	212.55440	195.87770
-.261	-5.800	8.00000	-7.00000	.16910	.27050	3916.69000	365.74900	212.90950	195.70660
-.244	-3.799	8.00000	-7.00000	.10230	.09250	95.14001	365.30880	212.67960	195.53550
-.196	.154	8.00000	-7.00000	-.01560	-.06350	106.54380	366.53220	212.94540	195.74800
-.182	4.242	8.00000	-7.00000	-.14630	-.11740	1327.18401	368.09030	212.90950	195.81280
	GRADIENT	.00000	.00000	-.03092	-.02603	154.05230	.34612	.02838	.03438

RUN NO. 145/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.571	-7.824	8.00000	-7.00000	.19790	.54130	283.39550	367.39870	212.96270	196.71660
3.616	-5.855	8.00000	-7.00000	.15560	.43440	4120.53900	367.99950	213.35260	196.78180
3.620	-3.859	8.00000	-7.00000	.09480	.29170	1708.77100	367.38330	212.99850	196.27950
3.571	.059	8.00000	-7.00000	.02600	.00150	608.30860	367.17070	212.94540	196.65150
3.575	3.894	8.00000	-7.00000	-.03190	-.09950	2798.75500	366.86670	212.85630	196.29140
	GRADIENT	.00000	.00000	-.01635	-.05054	139.06161	-.06658	-.01832	.00187

IA138 AMES 246-1-97 OTS POWER ON (T3D049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 126/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.072	-5.304	4.00000	-2.00000	-.08590	-.11980	735.81370	729.76560	487.79080	462.74660
-4.061	-3.354	4.00000	-2.00000	-.15410	-.16920	735.77120	729.72070	488.23850	462.47090
-3.980	.545	4.00000	-2.00000	-.25500	-.23710	734.33860	728.86180	484.23140	458.89400
-3.968	4.411	4.00000	-2.00000	-.32240	-.26760	733.80880	728.04760	494.08570	468.32450
-3.988	6.402	4.00000	-2.00000	-.37030	-.26850	733.52200	727.90430	491.93970	466.03610
	GRADIENT	.00000	.00000	-.02168	-.01268	-.25291	-.21550	.75060	.75157

RUN NO. 125/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.174	-5.277	4.00000	-2.00000	-.02290	-.10290	738.24850	732.34200	487.21880	462.17430
-.149	-3.299	4.00000	-2.00000	-.07610	-.15140	737.81860	732.05640	487.79080	462.60350
-.151	.660	4.00000	-2.00000	-.17080	-.21320	737.53250	731.48340	487.93380	462.46070
-.092	4.757	4.00000	-2.00000	-.24080	-.26190	736.67310	730.76730	487.79080	462.31760
-.078	6.746	4.00000	-2.00000	-.27580	-.26420	736.34420	730.86650	487.95240	462.75680
	GRADIENT	.00000	.00000	-.02042	-.01370	-.14258	-.16009	-.00020	-.03548

RUN NO. 124/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.697	-5.340	4.00000	-2.00000	.06230	-.09360	738.49320	732.29910	487.23680	463.18630
3.728	-3.360	4.00000	-2.00000	.00400	-.12510	738.96510	732.77170	487.21880	462.88940
3.672	.565	4.00000	-2.00000	-.10230	-.18130	739.39450	733.34450	486.93240	462.46070
3.677	4.416	4.00000	-2.00000	-.18340	-.21810	738.86330	733.10180	487.48630	462.73630
3.705	6.387	4.00000	-2.00000	-.18580	-.21700	739.29300	732.95850	487.62920	462.30740
	GRADIENT	.00000	.00000	-.02411	-.01197	-.01270	.04278	.03406	-.01998

IA138 AMES 246-1-87 OTS POWER ON (T3D050) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.805 SSMEPR = 1328.922
ELV-1B = 4.000 ELV-0B = -2.000
MACH = 2.500

RUN NO. 115/ 0 RN/L = 2.90 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.020	-6.045	4.00000	-2.00000	-.11210	-.26580	1320.06799	1308.98399	792.31880	748.25440
-4.011	-4.096	4.00000	-2.00000	-.15730	-.27330	1333.53400	1322.89700	792.58110	749.41500
-3.932	-.198	4.00000	-2.00000	-.24060	-.29540	1302.24600	1291.85500	791.40600	749.62380
-3.924	3.667	4.00000	-2.00000	-.32210	-.30370	1321.64799	1311.01601	791.89620	749.87180
-3.944	5.659	4.00000	-2.00000	-.33350	-.29040	1319.82001	1309.18900	791.43950	748.95900
	GRADIENT	.00000	.00000	-.02123	-.00392	-1.54020	-1.53947	-.08852	.05884

RUN NO. 116/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.126	-6.019	4.00000	-2.00000	-.02980	-.22820	1315.68401	1305.05200	790.33150	749.20700
-.102	-4.042	4.00000	-2.00000	-.07920	-.24350	1309.07800	1298.22301	790.29830	748.95900
-.104	-.082	4.00000	-2.00000	-.16410	-.27230	1312.27699	1301.19299	789.15650	748.73070
-.045	4.016	4.00000	-2.00000	-.23820	-.28890	1323.24800	1312.38800	789.38480	747.58960
-.032	6.000	4.00000	-2.00000	-.27340	-.23060	1351.36200	1339.57500	778.65430	740.05790
	GRADIENT	.00000	.00000	-.01972	-.00563	1.76388	1.76358	-.11239	-.17058

RUN NO. 117/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.742	-6.087	4.00000	-2.00000	.01640	-.19820	1339.70399	1329.06500	786.64500	747.81760
3.775	-4.106	4.00000	-2.00000	-.02280	-.22000	1340.61900	1329.06500	787.10180	747.58960
3.726	-.178	4.00000	-2.00000	-.10250	-.24060	1339.93300	1328.83701	793.03780	754.66430
3.729	3.672	4.00000	-2.00000	-.16990	-.26480	1338.56100	1327.69501	791.66800	753.06690
3.758	5.642	4.00000	-2.00000	-.19110	-.26120	1336.04700	1324.95300	785.73190	748.27390
	GRADIENT	.00000	.00000	-.01892	-.00576	-.26430	-.17575	.59019	.70791

IA138 AMES 246-1-97 OTS POWER ON (T3D051) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.294 SSMEPR = 477.177
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 155/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.328	-6.178	4.00000	-5.00000	.19690	.03760	476.12280	472.58960	291.29470	273.66990
-4.431	-4.157	4.00000	-5.00000	.12150	-.04470	475.65550	472.20090	291.12060	273.50170
-4.470	.097	4.00000	-5.00000	-.01640	-.16110	475.57790	471.96900	290.88640	273.73410
-4.261	4.262	4.00000	-5.00000	-.17570	-.21350	475.42330	471.73710	291.04320	273.42430
-4.185	6.274	4.00000	-5.00000	-.23990	-.18660	475.19120	471.65970	290.73390	273.50170
	GRADIENT	.00000	-.00000	-.03529	-.02008	-.02755	-.05509	-.00936	-.00897

RUN NO. 156/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.208	-6.226	4.00000	-5.00000	.18610	.15480	474.80470	471.27290	290.57910	273.42430
-.216	-4.285	4.00000	-5.00000	.12030	.00850	474.65010	474.98460	290.73390	273.26950
-.200	-.252	4.00000	-5.00000	.03020	-.09720	474.73020	471.04270	290.75290	273.36010
-.175	3.785	4.00000	-5.00000	-.06930	-.18520	480.83670	477.30440	290.96610	273.03710
-.160	5.796	4.00000	-5.00000	-.13820	-.21880	480.52730	476.99540	290.50170	273.34690
	GRADIENT	.00000	.00000	-.02349	-.02400	.76665	.28761	.02877	-.02880

RUN NO. 157/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.833	-6.216	4.00000	-5.00000	.21690	.22920	479.59940	476.14450	290.26980	273.11450
3.928	-4.242	4.00000	-5.00000	.15880	.09350	479.13960	475.45140	289.97900	273.05030
4.043	-.032	4.00000	-5.00000	.06560	-.05680	478.90750	475.21950	290.28880	273.20510
3.954	4.148	4.00000	-5.00000	-.00940	-.14350	478.44340	474.75560	290.21140	272.89530
3.920	6.179	4.00000	-5.00000	-.02590	-.16960	478.05300	474.52050	289.80570	272.88230
	GRADIENT	.00000	-.00000	-.02005	-.02826	-.08295	-.08290	.02775	-.01841

IA138 AMES 246-1-97 OTS POWER ON (T3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2680.0000 SQ.FT. XMRP = 1076.6900 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SREFPR = 464.183 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 166/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.079	-5.302	4.00000	-5.00000	-.08060	-.06510	740.45070	734.93770	497.53520	464.34400
-4.065	-3.352	4.00000	-5.00000	-.14550	-.11970	739.10300	733.87990	496.49120	463.60740
-3.981	.548	4.00000	-5.00000	-.24710	-.19010	739.49100	734.40870	496.51250	464.19020
-3.972	4.414	4.00000	-5.00000	-.31160	-.22290	739.24610	733.87990	496.63430	463.46410
-3.989	6.405	4.00000	-5.00000	-.36110	-.21850	740.38870	735.02270	496.49120	463.75050
	GRADIENT	.00000	.00000	-.02140	-.01330	.01855	.00020	.01841	-.01821

RUN NO. 165/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.174	-5.277	4.00000	-5.00000	-.02300	-.04480	740.41040	735.03860	497.12790	463.92480
-.148	-3.303	4.00000	-5.00000	-.07250	-.09990	740.55300	735.32450	497.27100	464.21140
-.151	.661	4.00000	-5.00000	-.16220	-.17050	740.02170	734.79490	497.39210	463.34200
-.093	4.761	4.00000	-5.00000	-.23660	-.22420	741.55420	735.61060	497.84300	464.49780
-.080	6.750	4.00000	-5.00000	-.26740	-.22300	740.59330	735.22360	497.24930	464.34400
	GRADIENT	.00000	.00000	-.02034	-.01540	.12559	.03642	.07116	.03693

RUN NO. 164/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.839	-5.693	4.00000	-5.00000	.07790	-.03470	738.60840	732.93460	499.47530	465.59990
3.934	-3.718	4.00000	-5.00000	.01740	-.07170	736.32180	730.94730	498.31620	464.51930
4.052	.486	4.00000	-5.00000	-.09000	-.13880	736.03540	730.66110	498.45920	464.66240
3.962	4.666	4.00000	-5.00000	-.17660	-.18000	734.26070	729.03320	497.84300	464.06810
3.928	6.696	4.00000	-5.00000	-.18070	-.17890	741.84010	736.03980	497.84300	463.92480
	GRADIENT	.00000	.00000	-.02314	-.01292	-.24566	-.22814	-.05635	-.05373

IA138 AMES 246-1-97 OTS POWER ON (T3D053) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	752.323	SSMEPR =	1319.085
ELV-IB =	4.000	ELV-OB =	-5.000
MACH =	2.500		

RUN NO. 167/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.271	-6.391	4.00000	-5.00000	-.10210	-.13760	1318.16600	1308.68700	802.42160	750.93970
-4.372	-4.373	4.00000	-5.00000	-.14930	-.15920	1320.53799	1311.72200	804.05470	752.45310
-4.406	-.125	4.00000	-5.00000	-.24810	-.19230	1320.31000	1311.72200	804.05470	752.45310
-4.199	4.037	4.00000	-5.00000	-.32250	-.21100	1320.10100	1311.06000	804.24460	753.11740
-4.127	6.050	4.00000	-5.00000	-.33560	-.20410	1318.29601	1309.71400	803.29370	752.64010
	GRADIENT	.00000	.00000	-.02060	-.00617	-.05197	-.07845	.02250	.07872

RUN NO. 168/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.128	-6.024	4.00000	-5.00000	-.02680	-.09820	1319.20799	1310.17000	803.75020	752.41160
-.101	-4.044	4.00000	-5.00000	-.07440	-.14180	1318.96001	1310.37601	803.10330	752.88940
-.105	-.080	4.00000	-5.00000	-.16070	-.18880	1318.96001	1310.60400	801.96260	751.51860
-.044	4.017	4.00000	-5.00000	-.23270	-.21430	1318.94099	1309.89700	802.22850	751.99580
-.031	6.006	4.00000	-5.00000	-.26480	-.21050	1318.73300	1309.91901	801.27830	751.51860
	GRADIENT	.00000	.00000	-.01962	-.00898	-.00237	-.06005	-.10755	-.10958

RUN NO. 169/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.688	-6.090	4.00000	-5.00000	.01830	-.11490	1318.50400	1309.69200	801.73460	752.20390
3.719	-4.106	4.00000	-5.00000	-.02260	-.14700	1318.71300	1310.12601	801.54370	752.45310
3.667	-.178	4.00000	-5.00000	-.10180	-.18520	1318.73300	1310.60400	801.73460	752.88940
3.673	3.671	4.00000	-5.00000	-.16830	-.20680	1319.39700	1310.58200	801.08690	752.45310
3.703	5.645	4.00000	-5.00000	-.18850	-.21020	1318.71300	1309.89700	800.40210	752.91020
	GRADIENT	.00000	.00000	-.01874	-.00770	.08766	.05885	-.05837	.00038

IA138 AMES 246-1-97 OTS POWER ON (T3D054) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	462.607	SSMEPR =	735.810
ELV-IB =	4.000	ELV-OB =	-7.000
MACH =	2.200		

RUN NO. 194/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.340	-5.660	4.00000	-7.00000	-.07620	.00000	735.76490	728.24830	490.82640	462.49270
-4.442	-3.634	4.00000	-7.00000	-.14860	.00000	735.62210	728.24830	491.68460	462.49270
-4.474	.620	4.00000	-7.00000	-.26090	.00000	735.72240	728.63230	492.41970	463.07570
-4.265	4.785	4.00000	-7.00000	-.33280	.00000	734.90670	727.96190	491.25560	462.20630
-4.188	6.795	4.00000	-7.00000	-.37900	.00000	735.19240	727.67630	491.11250	462.49270
	GRADIENT	.00000	.00000	-.02190	.00000	-.08459	-.03358	-.05017	-.03341

RUN NO. 195/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.208	-5.758	4.00000	-7.00000	-.01120	.00000	735.82280	728.58740	491.00830	462.51250
-.199	-3.769	4.00000	-7.00000	-.06610	.00000	735.39360	728.58740	490.86550	462.51250
-.186	.269	4.00000	-7.00000	-.15790	.00000	735.92330	728.54270	490.59840	462.23560
-.159	4.306	4.00000	-7.00000	-.23630	.00000	736.21000	729.11520	490.59840	462.66580
-.143	6.317	4.00000	-7.00000	-.26980	.00000	736.49630	729.40110	490.74170	462.95240
	GRADIENT	.00000	.00000	-.02108	.00000	.10111	.06535	-.03308	.01898

RUN NO. 196/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.647	-5.348	4.00000	-7.00000	.06180	.00000	735.92330	728.82690	490.02560	462.37890
3.677	-3.363	4.00000	-7.00000	.00170	.00000	735.82280	728.58740	489.29100	462.36890
3.625	.565	4.00000	-7.00000	-.10230	.00000	735.67940	728.58740	489.86350	462.65580
3.630	4.415	4.00000	-7.00000	-.18100	.00000	735.92330	728.97220	490.02560	463.09590
3.658	6.391	4.00000	-7.00000	-.18510	.00000	736.74020	729.64280	490.33150	462.96240
	GRADIENT	.00000	.00000	-.02350	.00000	.01275	.04931	.09462	.09340

IA138 AMES 246-1-97 OTS POWER ON (T3D055) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	743.821	SSMEPR =	1312.481
ELV-IB =	4.000	ELV-OB =	2.000
MACH =	2.500		

RUN NO. 113/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.012	-6.043	4.00000	2.00000	-.11290	-.15120	1323.73801	1313.17900	784.63600	745.45410
-4.004	-4.093	4.00000	2.00000	-.15930	-.17590	1320.34801	1309.56400	783.01250	743.61740
-3.925	-.200	4.00000	2.00000	-.24390	-.21440	1317.84900	1307.29201	780.28300	742.70900
-3.918	3.661	4.00000	2.00000	-.33020	-.23490	1316.71300	1306.61000	785.51460	745.66260
-3.940	5.650	4.00000	2.00000	-.34280	-.22980	1313.75999	1303.42799	785.51460	746.11720
	GRADIENT	.00000	.00000	-.02204	-.00761	-.46902	-.38124	.32121	.26304

RUN NO. 112/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.137	-6.016	4.00000	2.00000	-.03130	-.15450	1309.89900	1299.33800	783.46750	743.39040
-.112	-4.042	4.00000	2.00000	-.08110	-.17040	1307.39999	1296.83800	784.60450	743.61740
-.100	-.090	4.00000	2.00000	-.16280	-.20730	1303.99300	1293.65601	786.19700	745.66260
-.048	4.011	4.00000	2.00000	-.24140	-.23410	1301.03999	1290.92900	784.83200	744.52660
-.035	5.998	4.00000	2.00000	-.27650	-.22870	1307.83200	1297.72099	783.72610	744.77220
	GRADIENT	.00000	.00000	-.01990	-.00790	-.78935	-.73335	.02598	.11045

RUN NO. 111/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.737	-6.082	4.00000	2.00000	.02000	-.16000	1317.60300	1307.04100	785.54640	741.13550
3.770	-4.102	4.00000	2.00000	-.02200	-.16870	1330.57001	1320.01801	784.37700	740.43630
3.718	-.180	4.00000	2.00000	-.10530	-.18790	1302.83299	1292.26500	791.23490	747.72730
3.725	3.662	4.00000	2.00000	-.17470	-.20070	1298.76801	1288.65700	783.92260	742.02690
3.756	5.633	4.00000	2.00000	-.19600	-.19940	1314.87601	1304.31300	781.67850	740.45360
	GRADIENT	.00000	.00000	-.01967	-.00412	-4.10633	-4.04974	-.05224	.21062

IA138 AMES 246-1-87 OTS POWER ON (T3D056) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	460.159	SSMEPR =	740.665
ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.200		

RUN NO. 214/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.319	-5.659	.00000	-2.00000	.08430	-.07310	739.97220	733.94260	482.65990	459.19560
-4.419	-3.636	.00000	-2.00000	-.00100	-.12510	739.72710	733.69950	483.50150	460.33130
-4.456	.617	.00000	-2.00000	-.12580	-.20370	740.19730	733.74240	483.19820	460.17900
-4.244	4.780	.00000	-2.00000	-.19850	-.24010	739.97220	733.37110	483.37550	460.48390
-4.169	6.792	.00000	-2.00000	-.25100	-.21910	739.68550	733.37110	482.80300	460.05440
	GRADIENT	.00000	.00000	-.02349	-.01368	.02941	-.03884	-.01517	.01794

RUN NO. 213/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.174	-5.279	.00000	-2.00000	.11670	-.07380	740.76950	734.17090	483.62720	459.89280
-.147	-3.302	.00000	-2.00000	.05420	-.11890	741.05620	734.45630	483.77050	459.89280
-.153	.655	.00000	-2.00000	-.03980	-.17790	739.95210	733.78470	483.32420	459.59740
-.093	4.756	.00000	-2.00000	-.12760	-.23200	740.44260	733.69950	483.21530	459.90210
-.080	6.741	.00000	-2.00000	-.16540	-.23370	741.01510	734.55690	483.35840	460.04540
	GRADIENT	.00000	.00000	-.02255	-.01403	-.07496	-.09348	-.06864	.00160

RUN NO. 212/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.837	-5.689	.00000	-2.00000	.20000	-.09370	742.42900	735.96070	485.71880	461.37210
3.930	-3.712	.00000	-2.00000	.13400	-.11940	741.73120	735.12820	484.93210	460.61770
4.047	.488	.00000	-2.00000	.01140	-.16470	741.62820	735.17040	484.48560	460.17900
3.960	4.664	.00000	-2.00000	-.08300	-.20270	740.87210	734.55690	484.35990	460.61770
3.926	6.689	.00000	-2.00000	-.08740	-.19630	740.52420	734.07060	483.61040	460.02640
	GRADIENT	.00000	.00000	-.02591	-.00995	-.10250	-.06814	-.06835	-.00010

IA138 AMES 246-1-97 OTS POWER ON (T3D057) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	751.892	SSMEPR =	1322.416
ELV-IB =	.000	ELV-OB =	-2.000
MACH =	2.500		

RUN NO. 217/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-4.039	-6.049	.00000	-2.00000	.01070	-.12160	1320.07500	1308.81000	787.10620	751.96310
-4.030	-4.096	.00000	-2.00000	-.04030	-.14680	1320.95000	1309.67700	788.31320	752.00440
-3.952	-.197	.00000	-2.00000	-.13730	-.17750	1320.96899	1309.24300	787.36690	751.29860
-3.946	3.668	.00000	-2.00000	-.22120	-.19720	1320.74100	1309.24300	788.73730	751.99390
-3.963	5.658	.00000	-2.00000	-.22860	-.19100	1320.96899	1309.70000	788.28080	752.21220
	GRADIENT	.00000	.00000	-.02330	-.00649	-.02687	-.05598	.05417	-.00291

RUN NO. 218/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
-.148	-6.437	.00000	-2.00000	.09080	-.09650	1320.28400	1309.01601	787.36690	751.29860
-.154	-4.498	.00000	-2.00000	.03690	-.13250	1320.72099	1309.67700	786.94260	751.31880
-.131	-.471	.00000	-2.00000	-.06820	-.17100	1319.80701	1308.53600	786.02860	751.09030
-.112	3.568	.00000	-2.00000	-.14970	-.19770	1319.35001	1308.30800	786.48580	751.54760
-.096	5.580	.00000	-2.00000	-.18070	-.19170	1319.12100	1307.85201	786.25730	751.31880
	GRADIENT	.00000	.00000	-.02313	-.00808	-.16994	-.16967	-.05654	.02841

RUN NO. 219/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPRO2	CPRO1	CPRSL	CPRSR
3.687	-6.089	.00000	-2.00000	.10670	-.17120	1327.35201	1316.29500	785.11500	753.14720
3.718	-4.104	.00000	-2.00000	.06000	-.18100	1327.14101	1316.31500	784.85470	752.89750
3.667	-.177	.00000	-2.00000	-.03430	-.19500	1326.92900	1315.65100	784.36670	752.41990
3.676	3.672	.00000	-2.00000	-.10730	-.21270	1326.03300	1314.98700	782.73680	752.17070
3.705	5.646	.00000	-2.00000	-.12620	-.20840	1325.80400	1313.16299	782.96560	751.71390
	GRADIENT	.00000	.00000	-.02152	-.00408	-.14220	-.17079	-.27189	-.09357

IA138 AMES 246-1-97 OTS POWER ON (T3D058) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN.	XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN.	YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN.	ZO
SCALE =	.0100					

PARAMETRIC DATA

SRBPR =	462.862	SSMEPR =	741.568
ELV-IB =	.000	ELV-OB =	-5.000
MACH =	2.200		

RUN NO. 186/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.318	-5.657	.00000	-5.00000	.08520	-.05700	740.44780	733.61430	485.81300	461.86350
-4.421	-3.635	.00000	-5.00000	.00130	-.12500	740.34570	733.37130	485.65210	462.28200
-4.457	.620	.00000	-5.00000	-.12520	-.20700	741.01900	734.32810	485.24220	462.00630
-4.247	4.785	.00000	-5.00000	-.20520	-.24760	740.20240	733.37130	484.22530	462.13920
-4.172	6.797	.00000	-5.00000	-.25270	-.18740	740.59080	733.61430	484.52860	461.86350
	GRADIENT	.00000	.00000	-.02454	-.01458	-.01639	.00080	-.16920	-.01713

RUN NO. 185/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.174	-5.276	.00000	-5.00000	.11520	-.06030	740.77370	733.79930	486.93650	462.28200
-.147	-3.302	.00000	-5.00000	.05420	-.11480	740.77370	733.94260	486.36550	462.42480
-.151	.660	.00000	-5.00000	-.03700	-.18860	741.05860	734.22750	486.50830	461.99610
-.093	4.761	.00000	-5.00000	-.12590	-.24060	741.62990	734.37060	486.79370	462.99630
-.080	6.750	.00000	-5.00000	-.16510	-.24110	741.01900	733.89990	486.66940	462.57810
	GRADIENT	.00000	.00000	-.02233	-.01559	.10638	.05298	.05320	.07190

RUN NO. 184/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.837	-5.692	.00000	-5.00000	.19520	-.06650	744.34110	737.34180	490.86450	464.68900
3.931	-3.713	.00000	-5.00000	.13020	-.10250	744.27560	736.99490	489.96610	464.95340
4.048	.490	.00000	-5.00000	.01070	-.16300	742.92380	735.79030	489.06860	463.64230
3.962	4.670	.00000	-5.00000	-.08310	-.20160	741.65310	734.24320	488.84890	463.59960
3.925	6.697	.00000	-5.00000	-.08470	-.19540	742.47020	735.48730	488.72530	463.61040
	GRADIENT	.00000	.00000	-.02545	-.01183	-.31288	-.32824	-.13336	-.16165

IA138 AMES 246-1-97 OTS POWER ON (T30059) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6600 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 187/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.021	-6.050	.00000	-5.00000	.00720	-.11640	1328.56900	1316.06599	785.87280	748.93070
-4.012	-4.095	.00000	-5.00000	-.04280	-.15540	1328.81300	1316.77100	785.16500	749.59670
-3.933	-.194	.00000	-5.00000	-.13950	-.19740	1326.79100	1314.75700	784.40670	749.78540
-3.929	3.671	.00000	-5.00000	-.22500	-.21650	1325.68401	1314.11400	783.65870	749.51660
-3.947	5.663	.00000	-5.00000	-.23180	-.20920	1324.78900	1313.22200	782.94340	747.89840
	GRADIENT	.00000	-.00000	-.02346	-.00787	-.40309	-.34240	-.19267	-.01022

RUN NO. 188/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.147	-6.438	.00000	-5.00000	.08820	-.10560	1325.45500	1313.20100	782.51860	748.37500
-.153	-4.500	.00000	-5.00000	.03380	-.14600	1325.45500	1313.65800	782.97440	747.91820
-.133	-.469	.00000	-5.00000	-.07650	-.19450	1325.22800	1313.65800	782.29030	748.14650
-.111	3.572	.00000	-5.00000	-.15170	-.22260	1324.08701	1311.83299	782.06250	748.37500
-.095	5.583	.00000	-5.00000	-.18420	-.21630	1324.33200	1312.31000	781.11960	747.44210
	GRADIENT	.00000	-.00000	-.02298	-.00949	-.16952	-.22617	-.11295	.05659

RUN NO. 189/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.687	-6.092	.00000	-5.00000	.10440	-.11870	1323.64799	1312.31000	780.43580	747.89840
3.721	-4.105	.00000	-5.00000	.05640	-.15040	1323.64799	1312.08200	779.75170	746.98580
3.670	-.176	.00000	-5.00000	-.03750	-.19120	1324.33200	1312.08200	780.20750	747.67040
3.677	3.675	.00000	-5.00000	-.10930	-.21460	1324.56100	1312.31000	779.29590	748.12720
3.706	5.648	.00000	-5.00000	-.12900	-.21430	1323.85899	1312.28900	778.41410	747.46170
	GRADIENT	.00000	-.00000	-.02131	-.00826	.11754	.02921	-.05800	.14680

IA138 AMES 246-1-87 OTS POWER ON (T30060) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6900 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SREPR =	753.115	SSMEPR =	1328.449
ELV-IB =	.000	ELV-OB =	2.000
MACH =	2.500		

RUN NO. 206/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.261	-6.393	.00000	2.00000	.01430	-.14290	1328.41000	1317.42700	794.80320	751.41870
-4.366	-4.373	.00000	2.00000	-.04070	-.17000	1330.24300	1316.96899	793.88720	750.50120
-4.401	-.125	.00000	2.00000	-.15000	-.20900	1332.09100	1320.65601	793.85300	750.48120
-4.196	4.033	.00000	2.00000	-.22910	-.22550	1352.00000	1339.89101	793.20000	751.18900
-4.122	6.043	.00000	2.00000	-.24210	-.23010	1272.07201	1260.58099	793.42920	751.41870
	GRADIENT	.00000	.00000	-.02242	-.00661	2.58028	2.71992	-.08148	.08150

RUN NO. 205/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-.149	-6.434	.00000	2.00000	.08930	-.14240	1327.49500	1316.05200	800.29960	756.00390
-.156	-4.495	.00000	2.00000	.03500	-.16840	1331.38800	1319.49100	799.38350	755.08640
-.139	-.467	.00000	2.00000	-.06980	-.20020	1336.42599	1325.22099	795.71920	751.41870
-.112	3.566	.00000	2.00000	-.15100	-.23110	1339.40401	1328.42999	795.26120	752.33570
-.095	5.571	.00000	2.00000	-.18600	-.22330	1329.55600	1317.88600	795.71920	752.10640
	GRADIENT	.00000	.00000	-.02307	-.00778	.99441	1.10891	-.51133	-.34113

RUN NO. 204/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
3.877	-6.435	.00000	2.00000	.11850	-.15730	1332.97600	1321.76300	792.77660	748.22800
3.975	-4.456	.00000	2.00000	.06990	-.17300	1341.00700	1329.57600	801.21560	756.23320
4.097	-.255	.00000	2.00000	-.03100	-.19330	1329.78500	1317.65700	802.81880	757.15010
4.011	3.921	.00000	2.00000	-.10600	-.22110	1341.00700	1329.80600	801.67360	756.92090
3.979	5.948	.00000	2.00000	-.12620	-.21840	1317.87601	1306.19600	801.21560	756.23320
	GRADIENT	.00000	.00000	-.02100	-.00574	-.00274	.02452	.05501	.08224

IA138 AMES 246-1-97 OTS POWER ON (T30061) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.861 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 9/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.495	700.439	10.00000	-2.00000	-.29730	-.22120	695.18850	248.16010	247.75380	700.43870
2.495	791.251	10.00000	-2.00000	-.29710	-.22070	785.75810	246.78730	247.52490	791.25050
2.495	891.235	10.00000	-2.00000	-.29720	-.22150	885.01900	245.87200	246.15170	891.23490
2.495	985.257	10.00000	-2.00000	-.29730	-.22200	978.33280	246.10080	245.46510	985.25710
2.495	1110.786	10.00000	-2.00000	-.29750	-.22260	1102.61501	243.96050	242.40940	1110.78600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T30062) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 332.191 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 8/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.495	674.536	10.00000	-2.00000	-.29760	-.22480	670.49950	339.00240	332.44140	674.53590
2.495	781.558	10.00000	-2.00000	-.29770	-.22610	776.09420	339.23120	331.98390	781.55830
2.495	884.227	10.00000	-2.00000	-.29780	-.22660	877.57470	339.68850	331.98390	884.22660
2.495	966.040	10.00000	-2.00000	-.29790	-.22770	959.39920	339.46000	331.75540	966.04000
2.495	1082.786	10.00000	-2.00000	-.29850	-.22850	1075.37900	340.94730	332.78830	1082.78600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D063) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	431.638	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 7/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.495	691.724	10.00000	-2.00000	-.29870	-.22990	687.41330	448.61110	433.84570	691.72360
2.495	787.714	10.00000	-2.00000	-.29870	-.23070	782.69120	443.81080	430.64480	787.71390
2.495	888.515	10.00000	-2.00000	-.29870	-.23180	882.99580	447.46830	432.47390	888.51510
2.495	977.079	10.00000	-2.00000	-.29900	-.23230	971.32520	445.49170	429.58760	977.07910
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D064) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	586.823	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 5/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.495	694.010	10.00000	-2.00000	-.30080	-.24130	690.15380	620.36990	589.22240	694.01050
2.495	790.102	10.00000	-2.00000	-.30080	-.24200	785.99000	619.91310	589.45070	790.10230
2.495	890.770	10.00000	-2.00000	-.30150	-.25920	885.70530	616.94580	585.56880	890.77000
2.495	962.520	10.00000	-2.00000	-.30130	-.24890	955.43970	618.79520	586.28810	962.52000
2.495	1111.960	10.00000	-2.00000	-.30130	-.24710	1104.48399	615.16850	583.58420	1111.96001
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D065) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN. XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN. YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	787.210	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 6/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.495	699.247	10.00000	-2.00000	-.30320	-.23520	694.70000	893.69920	845.85910	699.24730
2.495	784.985	10.00000	-2.00000	-.30280	-.23550	780.43850	908.42140	860.14480	784.98540
2.495	893.168	10.00000	-2.00000	-.30530	-.23730	887.19900	912.82420	861.85160	893.16820
2.495	975.072	10.00000	-2.00000	-.30170	-.23740	968.65600	912.44310	862.36330	975.07230
2.495	1096.897	10.00000	-2.00000	-.30260	-.23920	1090.38499	909.64090	861.39670	1096.89700
2.495	1100.750	10.00000	-2.00000	-.29920	-.23440	1093.75200	448.00540	431.64480	1100.75000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D066) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000	SQ.FT.	XMRP =	1076.6800	IN. XO
LREF =	474.8100	INCHES	YMRP =	.0000	IN. YO
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	173.739	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 15/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.196	473.335	10.00000	-2.00000	-.36070	-.18300	470.66970	183.83580	172.96980	473.33540
2.196	533.142	10.00000	-2.00000	-.36080	-.18460	530.03080	184.26610	173.40020	533.14230
2.196	612.011	10.00000	-2.00000	-.36030	-.18360	608.54640	184.34840	173.77300	612.01070
2.196	692.350	10.00000	-2.00000	-.36070	-.18620	688.52810	185.20870	174.77700	692.34990
2.196	791.660	10.00000	-2.00000	-.36110	-.18640	786.85670	183.91810	173.77300	791.65970
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D067) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	245.420	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 14/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.196	474.014	10.00000	-2.00000	-.36080	-.18790	471.63400	259.46120	245.03940	474.01390
2.196	539.794	10.00000	-2.00000	-.36150	-.18810	536.52220	259.03130	243.89270	539.79350
2.196	620.366	10.00000	-2.00000	-.36130	-.18830	617.16700	257.88480	243.17610	620.36600
2.196	692.092	10.00000	-2.00000	-.36130	-.19220	688.12990	261.66720	247.10760	692.09200
2.196	781.137	10.00000	-2.00000	-.36120	-.19650	776.50950	262.58300	247.88510	781.13750
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D068) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	326.815	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 12/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.196	473.543	10.00000	-2.00000	-.35790	-.19730	470.59300	344.09840	325.84380	473.54270
2.196	539.114	10.00000	-2.00000	-.35760	-.19860	536.13230	344.95750	326.70290	539.11380
2.196	619.975	10.00000	-2.00000	-.35820	-.20470	615.77710	345.84500	328.16920	619.97460
2.196	701.069	10.00000	-2.00000	-.35840	-.20970	696.51390	343.29830	326.48660	701.06880
2.196	787.284	10.00000	-2.00000	-.35980	-.23070	782.22000	344.07470	326.87400	787.28370
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D069) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 422.548 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 11/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.196	466.171	10.00000	-2.00000	-.36660	-.19460	462.81470	446.15010	423.08790	466.17070
2.196	527.877	10.00000	-2.00000	-.36760	-.19470	524.50050	444.57370	422.51900	527.87720
2.196	614.797	10.00000	-2.00000	-.36710	-.18950	610.33250	447.28860	423.37670	614.79710
2.196	687.255	10.00000	-2.00000	-.36730	-.19860	682.88230	444.28810	421.80440	687.25460
2.196	785.371	10.00000	-2.00000	-.36790	-.19740	779.88160	443.28440	421.95090	785.37060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D070) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 533.014 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 10/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.196	454.525	10.00000	-2.00000	-.36980	-.20040	451.20460	562.94700	533.82130	454.52540
2.196	533.011	10.00000	-2.00000	-.37110	-.20560	528.91040	561.94850	533.39330	533.01070
2.196	597.717	10.00000	-2.00000	-.37180	-.21040	593.58810	561.90580	533.35930	597.71680
2.196	707.150	10.00000	-2.00000	-.37340	-.21350	701.87670	562.39010	533.29350	707.15010
2.196	788.063	10.00000	-2.00000	-.37300	-.22270	782.57790	559.41430	531.20020	788.06300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D071) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 119.218 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 22/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.799	262.393	10.00000	-2.00000	-.29550	-.09920	261.36670	136.17900	119.01680	262.39260
1.799	306.315	10.00000	-2.00000	-.29570	-.10050	304.71610	136.44440	119.36590	306.31490
1.799	369.375	10.00000	-2.00000	-.29600	-.10310	367.26710	136.67740	119.13270	369.37450
1.799	428.948	10.00000	-2.00000	-.29590	-.10500	426.49070	136.63190	119.32620	428.94780
1.799	493.852	10.00000	-2.00000	-.29750	-.10610	490.88550	137.09780	119.24850	493.85180
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D072) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 156.726 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 23/ 0 RN/L = 3.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.799	265.327	10.00000	-2.00000	-.29700	-.10690	263.98900	176.62260	156.62810	265.32710
1.799	304.270	10.00000	-2.00000	-.29700	-.10820	302.75020	177.16610	156.93890	304.26980
1.799	370.793	10.00000	-2.00000	-.29710	-.10830	368.84160	176.66040	156.83450	370.79270
1.799	427.575	10.00000	-2.00000	-.29750	-.10840	425.19800	177.28110	156.67920	427.57500
1.799	491.340	10.00000	-2.00000	-.29790	-.10990	488.30080	176.83420	156.54950	491.34030
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D073) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 200.661 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 24/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.799	265.751	10.00000	-2.00000	-.29880	-.11090	264.64650	224.08010	200.73450	265.75070
1.799	305.495	10.00000	-2.00000	-.29840	-.11270	304.05440	223.84750	200.73450	305.49540
1.799	367.630	10.00000	-2.00000	-.29900	-.11250	365.76000	224.23640	200.59030	367.62960
1.799	430.163	10.00000	-2.00000	-.29960	-.11430	427.78540	224.23520	200.57930	430.16310
1.799	493.187	10.00000	-2.00000	-.29910	-.11240	490.45800	224.08340	200.66790	493.18730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D074) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 268.756 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 25/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.799	270.139	10.00000	-2.00000	-.30000	-.11290	269.03300	297.06740	269.61520	270.13920
1.799	308.321	10.00000	-2.00000	-.30100	-.11390	306.72560	296.56080	268.97140	308.32130
1.799	429.540	10.00000	-2.00000	-.30210	-.11640	427.24440	295.92070	268.18530	429.53980
1.799	493.833	10.00000	-2.00000	-.30230	-.11560	491.10790	295.89990	268.25100	493.83250
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D075) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 246.024 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 26/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.799	-5.022	10.00000	-2.00000	-.29580	-.11510	-4.15964	7.66245	-.89577	-5.02239
1.799	267.524	10.00000	-2.00000	-.30080	-.11480	266.18900	324.41890	295.33080	267.52390
1.799	304.918	10.00000	-2.00000	-.30240	-.11540	303.32590	324.80540	295.64060	304.91820
1.799	368.635	10.00000	-2.00000	-.30350	-.11770	366.61380	324.26420	295.48580	368.63500
1.799	427.720	10.00000	-2.00000	-.30290	-.11690	425.35030	324.15670	295.38790	427.72000
1.799	495.808	10.00000	-2.00000	-.30380	-.11650	493.00830	324.25100	295.19240	495.80830
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D076) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 81.454 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 17/ 0 RN/L = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.550	-.028	10.00000	-2.00000	-.12010	-.13350	.02772	-.60898	-.18683	-.02809
1.550	234.438	10.00000	-2.00000	-.12220	-.16550	232.57760	102.64540	97.54736	234.43790
1.550	269.335	10.00000	-2.00000	-.12300	-.16060	266.86550	103.65820	98.18755	269.33540
1.550	306.756	10.00000	-2.00000	-.12420	-.15240	304.26340	103.44860	97.71683	306.75590
1.550	344.734	10.00000	-2.00000	-.12450	-.14120	341.84060	103.44500	97.28062	344.73390
1.550	396.657	10.00000	-2.00000	-.12370	-.13620	393.35790	104.65490	98.17574	396.65720
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D077) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	120.674	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 18/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.550	236.120	10.00000	-2.00000	-.12260	-.12310	233.94000	129.52260	120.66070	236.12040
1.550	270.597	10.00000	-2.00000	-.12440	-.11990	268.23410	130.75810	121.58030	270.59670
1.550	307.498	10.00000	-2.00000	-.12340	-.12000	304.89720	130.38520	120.67380	307.49760
1.550	340.713	10.00000	-2.00000	-.12450	-.11130	337.77150	130.02240	120.20760	340.71290
1.550	397.836	10.00000	-2.00000	-.12560	-.11330	394.69950	130.10610	120.24780	397.83570
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D078) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	153.981	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 19/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
1.550	238.473	10.00000	-2.00000	-.12680	-.10510	236.66720	167.29150	154.27210	238.47280
1.550	270.308	10.00000	-2.00000	-.12660	-.10560	268.26880	167.71700	154.27210	270.30830
1.550	306.727	10.00000	-2.00000	-.12620	-.10250	304.45140	167.76790	153.68890	306.72730
1.550	342.272	10.00000	-2.00000	-.12700	-.10150	339.64820	167.78440	153.93910	342.27250
1.550	395.886	10.00000	-2.00000	-.12720	-.09810	392.96120	167.51330	153.73040	395.88600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D079) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	197.234	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 20/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPROI	CPRSL	CPRSR	CPRO2
1.550	237.165	10.00000	-2.00000	-.12770	-.09570	235.51800	216.11610	198.00670	237.16460
1.550	268.463	10.00000	-2.00000	-.12890	-.09680	266.68970	214.87360	197.14230	268.46310
1.550	306.083	10.00000	-2.00000	-.13010	-.09480	303.91380	215.15690	197.06490	306.08350
1.550	344.254	10.00000	-2.00000	-.12970	-.09430	341.89940	215.26320	196.95850	344.25440
1.550	396.561	10.00000	-2.00000	-.13140	-.09160	394.06590	216.04260	196.99960	396.56130
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D080) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	236.910	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 21/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPROI	CPRSL	CPRSR	CPRO2
1.550	236.805	10.00000	-2.00000	-.13320	-.09020	235.37370	258.84990	237.28560	236.80540
1.550	266.814	10.00000	-2.00000	-.13350	-.08710	265.20430	258.90310	237.57370	266.81400
1.550	307.553	10.00000	-2.00000	-.13640	-.08940	305.54610	258.00950	236.59470	307.55320
1.550	341.146	10.00000	-2.00000	-.13610	-.08700	339.00900	258.29540	236.33460	341.14620
1.550	397.808	10.00000	-2.00000	-.13780	-.08370	395.31590	258.33720	236.76260	397.80790
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D081) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1189.695 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 29/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
2.495	247.091	10.00000	-2.00000	-.29860	-.22450	1191.46600	1183.57700	282.42900	247.09070
2.495	334.809	10.00000	-2.00000	-.29920	-.22390	1195.19800	1188.91200	375.56520	334.80930
2.495	431.493	10.00000	-2.00000	-.30000	-.22280	1186.15401	1180.10800	479.92970	431.49290
2.495	588.064	10.00000	-2.00000	-.30130	-.22090	1187.03400	1180.76401	647.99370	588.06420
2.495	853.624	10.00000	-2.00000	-.30100	-.21650	1188.62300	1181.22200	931.91650	853.62430
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D082) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1286.983 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 30/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
2.495	248.696	10.00000	-2.00000	-.29890	-.22660	1290.55499	1283.51700	280.13750	248.69590
2.495	335.497	10.00000	-2.00000	-.29890	-.22570	1285.77000	1278.04900	372.58740	335.49710
2.495	431.264	10.00000	-2.00000	-.29990	-.22540	1289.72701	1282.92400	476.72490	431.26390
2.495	588.751	10.00000	-2.00000	-.30110	-.22560	1283.17799	1276.15800	647.30760	588.75070
2.495	853.396	10.00000	-2.00000	-.30110	-.22560	1285.68600	1278.90601	929.40670	853.39620
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D083) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SSMEPR =	892.658	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 27/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
2.195	171.937	10.00000	-2.00000	-.36210	-.19510	889.34420	884.16190	199.23690	171.93670
2.195	246.292	10.00000	-2.00000	-.36210	-.19300	893.07150	887.45780	279.55400	246.29200
2.195	332.042	10.00000	-2.00000	-.36420	-.19160	893.89480	888.28690	370.64060	332.04220
2.195	421.144	10.00000	-2.00000	-.36510	-.18770	895.87280	890.55540	466.22190	421.14380
2.195	532.514	10.00000	-2.00000	-.36890	-.16750	891.10720	885.51270	586.02610	532.51370
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D084) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN.	XO	
LREF =	474.8100 INCHES	YMRP =	.0000 IN.	YO	
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN.	ZO	
SCALE =	.0100				

PARAMETRIC DATA

SSMEPR =	988.268	ALPHA =	.000
BETA =	.000	ELV-IB =	10.000
ELV-OB =	-2.000		

RUN NO. 28/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
2.195	173.747	10.00000	-2.00000	-.36220	-.20230	990.05930	984.52440	199.31420	173.74710
2.195	242.620	10.00000	-2.00000	-.36280	-.20240	990.87940	984.77120	273.57790	242.62000
2.195	328.599	10.00000	-2.00000	-.36390	-.20190	988.88840	983.07400	365.05000	328.59940
2.195	420.578	10.00000	-2.00000	-.36610	-.20170	982.37920	976.57810	463.62300	420.57810
2.195	529.047	10.00000	-2.00000	-.36960	-.20050	989.13210	983.18820	580.25630	529.04660
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D086) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SSMEPR =	804.690	ALPHA =	.000
BETA =	.000	ELV-IB =	.000
ELV-OB =	-2.000		

RUN NO. 215/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
2.195	459.491	.00000	-2.00000	-.03870	-.15320	739.64430	733.47090	482.24730	459.49120
2.195	459.921	.00000	-2.00000	-.03760	-.13690	604.82500	599.49290	482.67700	459.92070
2.195	462.478	.00000	-2.00000	-.03820	-.15590	870.59110	862.87350	485.36110	462.47800
2.195	463.612	.00000	-2.00000	-.03920	-.15460	1003.69900	995.14670	486.20170	463.61230
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D087) (19 OCT 78)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	1076.6800 IN. XO		
LREF =	474.8100 INCHES	YMRP =	.0000 IN. YO		
BREF =	936.6800 INCHES	ZMRP =	375.0000 IN. ZO		
SCALE =	.0100				

PARAMETRIC DATA

SRBPR =	498.342	ALPHA =	.000
BETA =	.000	ELV-IB =	.000
ELV-OB =	-2.000		

RUN NO. 216/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	EI	EO	DI	DO	CPR01	CPRSL	CPRSR	CPR02
2.195	863.720	.00000	-2.00000	-.04050	-.16990	856.17870	482.90280	461.37870	863.72020
2.195	864.434	.00000	-2.00000	-.04310	-.16650	857.30740	571.30200	542.76120	864.43410
2.195	867.441	.00000	-2.00000	-.03820	-.17160	859.58720	359.74930	346.26980	867.44120
2.195	871.288	.00000	-2.00000	-.04710	-.16380	864.01220	676.84940	642.95700	871.28780
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (T3D089) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 154/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	EI	EO	DI	DO	CPR02	CPR01	CPRSL	CPRSR
-4.373	-6.160	4.00000	-5.00000	.48090	.04260	328.94040	326.50980	201.32670	188.93820
-4.473	-4.140	4.00000	-5.00000	.38390	-.03140	328.94040	326.40330	200.90090	188.61850
-4.509	.114	4.00000	-5.00000	.19740	-.10180	328.51220	326.24220	200.83440	188.60930
-4.299	4.278	4.00000	-5.00000	.02150	-.13590	328.40330	325.81520	200.98060	188.33370
-4.226	6.291	4.00000	-5.00000	-.03500	-.13890	328.24630	325.81670	200.83440	188.39620
	GRADIENT	.00000	.00000	-.04306	-.01243	-.06394	-.06975	.00938	-.03372

IA138 AMES 246-1-97 OTS POWER OFF (U3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 31/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.101	-7.815	21.46790	21.58833	21.55548	-.54556	-.52034	-.55104	23.67950	21.44600	21.46790
-4.092	-5.842	21.10701	21.26045	21.19470	-.65289	-.66924	-.66444	23.37582	21.05222	21.19470
-4.073	-3.857	-20.05077	-20.11366	-20.06123	-.76749	-.76931	-.77996	-21.84334	-19.92497	-19.94592
-3.988	.039	-19.72565	-19.76768	-19.63109	-1.67460	-1.60126	-1.63033	-21.42757	-19.52605	-19.38947
-3.980	3.902	-2.21704	-2.22895	-2.21585	-2.43812	-2.47977	-2.64298	-2.43728	-2.20633	-2.21109
	GRADIENT	2.29538	2.30195	2.29692	-.21534	-.22044	-.24008	2.49778	2.28060	2.28274

RUN NO. 32/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.217	-7.784	-.84759	-.85361	-.84802	.91128	.86806	.86426	-.91899	-.84027	-.85275
-.192	-5.815	-.67531	-.67704	-.67566	.67706	.64405	.65074	-.72731	-.67046	-.67704
-.174	-3.808	-.71449	-.71894	-.71709	.46066	.43026	.44058	-.76985	-.71300	-.71263
-.219	.158	-.50363	-.50652	-.50442	.40338	.40055	.39830	-.54723	-.50022	-.50232
-.135	4.253	-.47371	-.47546	-.47421	.25011	.26129	.25780	-.53874	-.47070	-.47421
	GRADIENT	.02975	.03008	.03001	-.02618	-.02103	-.02274	.02853	.02993	.02945

IA138 AMES 246-1-97 OTS POWER OFF (U3D001) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 33/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.632	-7.853	-.37904	-.38709	-.37884	.21441	.20702	.20640	-.40966	-.37727	-.37766
3.671	-5.874	-.38720	-.39227	-.38761	.20133	.19721	.19689	-.41762	-.38518	-.38436
3.676	-3.871	-.35069	-.35371	-.35220	.22479	.21734	.21123	-.37655	-.34956	-.34541
3.624	.053	-.33679	-.33863	-.33625	.20588	.20604	.20354	-.36299	-.33423	-.33221
3.633	3.908	-.33929	-.34057	-.33929	.19330	.18541	.18208	-.35573	-.33600	-.33454
	GRADIENT	.00147	.00170	.00167	-.00405	-.00410	-.00374	.00268	.00175	.00140

IA138 AMES 246-1-97 OTS POWER OFF (U3D002) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 43/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.082	-5.833	-.12500	-.12427	-.12584	.04490	.05120	.05027	-.14323	-.12645	-.12633
-4.072	-3.879	-.11866	-.11719	-.11866	.04273	.04781	.04637	-.13334	-.11855	-.11866
-3.989	.021	-.12597	-.12356	-.12477	.04588	.05037	.05037	-.13753	-.12368	-.12260
-3.982	3.883	-.11214	-.11109	-.11004	.04462	.04873	.05182	-.12484	-.10969	-.10829
-4.006	5.880	-.11052	-.10961	-.10859	.04079	.04585	.04913	-.12186	-.10802	-.10609
	GRADIENT	.00084	.00078	.00111	.00024	.00012	.00070	.00109	.00114	.00133

RUN NO. 42/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.190	-5.839	-.13805	-.13805	-.13841	.05042	.05382	.05726	-.15194	-.13757	-.14249
-.173	-3.829	-.12690	-.12802	-.12791	.04681	.05212	.05283	-.13983	-.12735	-.12948
-.161	.132	-.12994	-.13030	-.13030	.05401	.05505	.05530	-.14235	-.12970	-.12910
-.108	4.234	-.11951	-.11904	-.11857	.04959	.05121	.05465	-.13297	-.11892	-.11774
-.094	6.226	-.11542	-.11530	-.11482	.04690	.05015	.05356	-.13245	-.11494	-.11397
	GRADIENT	.00093	.00112	.00117	.00034	-.00012	.00022	.00086	.00105	.00146

IA138 AMES 246-1-97 OTS POWER OFF (U3D002) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 41/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.710	-5.890	.09532	.09556	.09540	.06143	.05844	.06589	.09532	.09391	.09316
3.715	-3.888	-.14120	-.14095	-.14146	.06123	.05705	.06453	-.15776	-.14171	-.13916
3.663	.039	-.13025	-.13001	-.12927	.06472	.05789	.06421	-.14415	-.12964	-.12793
3.673	3.887	-.13093	-.13055	-.13004	.06699	.05820	.06246	-.14773	-.13004	-.12862
3.703	5.861	-.11860	-.11800	-.11848	.05546	.05578	.06304	-.13397	-.11836	-.11704
	GRADIENT	.00133	.00134	.00147	.00074	.00015	-.00027	.00130	.00151	.00136

IA138 AMES 246-1-97 OTS POWER OFF (U3D003) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 49/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.080	-5.344	-.08310	-.08374	-.08566	.02083	.02251	.03135	-.09527	-.08694	-.08865
-4.064	-3.360	-.08090	-.08109	-.08326	.02219	.02418	.03349	-.09211	-.08523	-.08405
-3.965	.543	-.07887	-.07461	-.07674	.02204	.02437	.03300	-.08697	-.07887	-.07823
-3.970	4.407	-.07241	-.06847	-.07024	.02142	.02350	.03171	-.07636	-.07202	-.06906
-3.989	6.403	-.09108	-.08646	-.08392	.02256	.02455	.03275	-.09432	-.08715	-.08114
	GRADIENT	.00109	.00163	.00168	-.00010	-.00009	-.00023	.00203	.00170	.00193

RUN NO. 48/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.177	-5.316	-.08621	-.08545	-.08602	.02088	.02225	.03031	-.09098	-.08659	-.08678
-.161	-3.308	-.08670	-.08556	-.08556	.02154	.02231	.03118	-.09050	-.08632	-.08898
-.151	.661	-.07079	-.06907	-.06926	.02166	.02310	.03275	-.07365	-.07022	-.07270
-.097	4.759	-.06801	-.06668	-.06801	.02425	.02598	.03648	-.07279	-.06840	-.06859
-.083	6.750	-.07471	-.07533	-.07492	.02346	.02408	.03436	-.08047	-.07513	-.07307
	GRADIENT	.00231	.00233	.00216	.00034	.00046	.00066	.00218	.00221	.00252

IA138 AMES 246-1-97 OTS POWER OFF (U3D003) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 47/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.727	-5.371	-.06989	-.07241	-.07036	.02341	.02403	.03078	-.07508	-.07052	-.06737
3.731	-3.366	-.07003	-.07035	-.07003	.02567	.02662	.03315	-.07635	-.07035	-.06744
3.681	.562	-.06748	-.06783	-.06872	.02511	.02626	.03206	-.07424	-.06926	-.06623
3.684	4.407	-.06190	-.06225	-.06225	.02790	.02949	.03688	-.06778	-.06363	-.06053
3.712	6.388	-.06440	-.06440	-.06495	.02482	.02536	.03267	-.07085	-.06476	-.06421
	GRADIENT	.00104	.00104	.00100	.00029	.00037	.00048	.00110	.00086	.00089

IA138 AMES 246-1-97 OTS POWER OFF (U3D004) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 50/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.024	-6.085	-.02889	-.02750	-.03008	.00892	.00942	.01842	-.03366	-.03008	-.03307
-4.011	-4.102	-.03439	-.03418	-.03610	.00743	.00827	.01702	-.03994	-.03717	-.03717
-3.918	-.196	-.02496	-.02416	-.02615	.00922	.01127	.01912	-.03132	-.02834	-.02675
-3.926	3.662	-.02606	-.02455	-.02520	.00977	.01232	.01820	-.02927	-.02777	-.02498
-3.946	5.656	-.02426	-.02267	-.02307	.00993	.01273	.01910	-.02685	-.02526	-.02267
	GRADIENT	.00108	.00124	.00141	.00030	.00052	.00015	.00138	.00121	.00157

RUN NO. 51/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.129	-6.060	-.04082	-.03948	-.04060	.00882	.01076	.02101	-.03903	-.03993	-.04149
-.112	-4.050	-.03635	-.03559	-.03616	.01015	.01142	.02145	-.03540	-.03597	-.03845
-.103	-.081	-.02866	-.02732	-.02790	.01045	.01443	.02333	-.02943	-.02924	-.03039
-.048	4.017	-.02979	-.02816	-.02932	.01015	.01385	.02123	-.03189	-.02956	-.02886
-.035	6.007	-.03131	-.03015	-.03062	.01023	.01381	.01901	-.03457	-.03155	-.03178
	GRADIENT	.00081	.00091	.00084	-.00000	.00030	-.00003	.00043	.00079	.00118

IA138 AMES 246-1-97 OTS POWER OFF (U3D004) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 52/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.772	-6.116	-.04391	-.04530	-.04414	.01301	.01665	.02369	-.04693	-.04437	-.04251
3.779	-4.112	-.04493	-.04614	-.04445	.01365	.01637	.02307	-.04856	-.04445	-.04517
3.730	-.181	-.04107	-.04160	-.04054	.01197	.01512	.02079	-.04639	-.04187	-.04240
3.734	3.666	-.03698	-.03668	-.03668	.01438	.01860	.02476	-.04170	-.03579	-.03639
3.763	5.642	-.02793	-.02713	-.02767	.01714	.02187	.02903	-.03382	-.02874	-.03007
	GRADIENT	.00102	.00122	.00100	.00009	.00029	.00022	.00088	.00111	.00113

IA138 AMES 246-1-97 OTS POWER OFF (U3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 58/ 0 RN/L = 3.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.080	-5.831	.83881	.83547	.84215	-.10225	-.10610	-.11697	.94748	.84884	.84884
-4.073	-3.878	.94518	.93250	.94713	-.10887	-.11210	-.12032	1.06223	.94518	.94811
-3.992	.025	1.37222	1.34966	1.36235	-.11383	-.11183	-.12357	1.49913	1.34825	1.34261
-3.986	3.888	1.71975	1.69791	1.68517	-.10694	-.10292	-.12386	1.90178	1.68335	1.66697
-4.005	5.884	1.69564	1.68289	1.66832	-.10270	-.09975	-.12384	1.86863	1.66650	1.63919
	GRADIENT	.09975	.09857	.09505	.00025	.00118	-.00046	.10811	.09506	.09258

RUN NO. 59/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.209	-6.221	2.70029	2.69256	2.70544	-.13600	-.13868	-.15793	2.94252	2.67709	2.77502
-.215	-4.281	2.68384	2.69671	2.69671	-.12470	-.12946	-.14017	2.93866	2.68384	2.75334
-.199	-.249	-2.43322	-2.43810	-2.43566	-.12737	-.12327	-.12941	-2.64806	-2.42101	-2.41124
-.171	3.789	-2.30144	-2.29655	-2.28921	-.13386	-.12503	-.13922	-2.54841	-2.28188	-2.27209
-.155	5.801	-1.24376	-1.23826	-1.23689	-.12101	-.11979	-.13641	-1.41684	-1.23414	-1.23002
	GRADIENT	-.61755	-.61854	-.61763	-.00114	.00055	.00012	-.67971	-.61513	-.62253

IA138 AMES 246-1-97 OTS POWER OFF (U3D005) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 60/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.893	-6.217	-.95039	-.98207	-.95999	-.14932	-.14579	-.15837	-1.04542	-.94559	-.92735
3.988	-4.244	-.64368	-.64499	-.64827	-.16494	-.15934	-.16957	-.71189	-.64237	-.63056
4.103	-.036	-.77212	-.77046	-.77046	-.17628	-.16506	-.17796	-.85450	-.77212	-.76213
4.018	4.143	-.87337	-.87145	-.87145	-.17957	-.15701	-.16691	-.98363	-.87241	-.85899
3.984	6.172	-.65239	-.65239	-.64798	-.16783	-.16862	-.18791	-.72972	-.65239	-.64577
	GRADIENT	-.02739	-.02701	-.02662	-.00175	.00028	.00031	-.03241	-.02744	-.02724

IA138 AMES 246-1-97 OTS POWER OFF (U3D006) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 69/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.073	-5.309	-.12299	-.12299	-.12514	-.12507	-.09963	-.19840	-.14089	-.12836	-.12943
-4.062	-3.357	-.10563	-.10593	-.10776	-.12245	-.10093	-.19970	-.12119	-.11142	-.10959
-3.977	.544	-.09787	-.09236	-.09542	-.10130	-.08998	-.16088	-.10706	-.09695	-.09665
-3.970	4.412	-.11310	-.10669	-.10905	-.15808	-.14245	-.24582	-.11984	-.11242	-.10669
-3.988	6.404	-.13747	-.12917	-.12766	-.14256	-.12730	-.21716	-.14087	-.13181	-.12465
	GRADIENT	-.00096	-.00009	-.00016	-.00457	-.00533	-.00591	.00018	-.00012	.00038

RUN NO. 68/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.200	-5.699	-.12536	-.12440	-.12536	-.20872	-.16982	-.31738	-.13276	-.12504	-.12633
-.205	-3.761	-.13070	-.12868	-.12901	-.15131	-.12292	-.23881	-.13611	-.12935	-.13510
-.188	.276	-.10780	-.10588	-.10684	-.13682	-.11401	-.22318	-.11324	-.10844	-.11068
-.160	4.311	-.11420	-.11062	-.11313	-.16005	-.13314	-.25502	-.12134	-.11348	-.11348
-.143	6.320	-.11599	-.11670	-.11670	-.17025	-.13898	-.25502	-.12421	-.11670	-.11527
	GRADIENT	.00205	.00224	.00197	-.00108	-.00127	-.00325	.00183	.00197	.00268

IA138 AMES 246-1-97 OTS POWER OFF (U3D006) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 67/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.900	-5.695	-.11050	-.11494	-.11106	-.25707	-.22012	-.34309	-.11882	-.11050	-.10634
3.994	-3.720	-.11413	-.11471	-.11355	-.30946	-.26120	-.39526	-.12283	-.11500	-.11008
4.111	.484	-.11253	-.11317	-.11317	-.19555	-.16630	-.25709	-.12305	-.11348	-.10998
4.022	4.663	-.10630	-.10630	-.10599	-.25212	-.21350	-.32825	-.11714	-.10758	-.10471
3.989	6.696	-.11371	-.11371	-.11337	-.28855	-.24787	-.38955	-.12312	-.11472	-.11371
	GRADIENT	.00093	.00100	.00090	.00686	.00571	.00802	.00068	.00088	.00064

IA138 AMES 246-1-97 OTS POWER OFF (U3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 70/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.018	-6.052	-.03507	-.03360	-.03507	-.03239	-.00811	-.09736	-.04036	-.03800	-.03889
-4.011	-4.100	-.04498	-.04402	-.04756	-.05685	-.00602	-.19680	-.05302	-.04852	-.04788
-3.929	-.200	-.04008	-.03978	-.04253	-.03763	-.01635	-.10502	-.04742	-.04467	-.04283
-3.925	3.668	-.03882	-.03668	-.03760	-.05084	-.02842	-.11558	-.04310	-.04066	-.03698
-3.947	5.660	-.04021	-.03699	-.03763	-.03370	-.01464	-.09144	-.04376	-.04118	-.03667
	GRADIENT	.00079	.00095	.00128	.00078	-.00288	.01048	.00128	.00101	.00140

RUN NO. 71/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.150	-6.442	-.04882	-.04820	-.04820	-.03325	-.00613	-.10647	-.04697	-.04789	-.04943
-.156	-4.504	-.04848	-.04755	-.04786	-.04907	-.00990	-.13885	-.04755	-.04848	-.05093
-.137	-.473	-.04412	-.04219	-.04348	-.04527	-.01371	-.13696	-.04637	-.04412	-.04766
-.111	3.566	-.03677	-.03401	-.03646	-.05084	-.02842	-.11888	-.04046	-.03677	-.03585
-.095	5.577	-.04368	-.04165	-.04232	-.05787	-.03412	-.14583	-.04910	-.04436	-.04266
	GRADIENT	.00145	.00168	.00141	-.00022	-.00230	.00248	.00068	.00145	.00187

IA138 AMES 246-1-97 OTS POWER OFF (U3D007) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 72/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.746	-6.091	-.05856	-.06000	-.05639	-.06404	-.03834	-.13536	-.06180	-.05820	-.05603
3.777	-4.109	-.05456	-.05558	-.05286	-.05060	-.03102	-.10287	-.05898	-.05320	-.05355
3.725	-.180	-.04404	-.04370	-.04268	-.06074	-.04165	-.13372	-.04813	-.04370	-.04404
3.734	3.671	-.03992	-.04068	-.03877	-.07758	-.05750	-.16734	-.04642	-.04106	-.04068
3.764	5.647	-.03076	-.03112	-.03221	-.05980	-.04602	-.11492	-.03835	-.03221	-.03329
	GRADIENT	.00189	.00192	.00181	-.00346	-.00340	-.00828	.00162	.00156	.00166

IA138 AMES 246-1-97 OTS POWER OFF (U3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 77/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.317	-8.161	4.30876	4.32707	4.31138	-1.82879	-1.78552	-1.86295	4.75063	4.29308	4.33230
-4.410	-6.189	-16.29596	-16.37706	-16.34665	-2.35256	-2.32831	-2.35172	-18.15102	-16.25542	-16.42773
-4.470	-4.144	-16.26262	-16.29292	-16.26262	-5.14466	-5.03070	-5.09767	-17.74825	-16.15144	-16.14134
-4.511	.110	-2.72282	-2.72973	-2.70899	-3.27977	-3.18179	-3.16597	-2.91647	-2.70207	-2.68305
-4.297	4.274	-2.69000	-2.70384	-2.69172	23.69170	23.90422	25.47232	-2.93043	-2.67962	-2.68308
	GRADIENT	1.61799	1.61996	1.61780	3.41480	3.42647	3.62006	1.76647	1.60598	1.60438

RUN NO. 78/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.245	-7.790	-1.36395	-1.37465	-1.36313	6.71225	6.43242	6.43096	-1.47752	-1.35243	-1.36889
-.218	-5.821	-1.19018	-1.19381	-1.19236	1.47911	1.38455	1.41763	-1.28672	-1.18292	-1.20034
-.202	-3.813	-1.18352	-1.19221	-1.18959	1.12896	1.03909	1.07774	-1.27991	-1.18352	-1.18642
-.205	.151	-1.17372	-1.18464	-1.18246	.86478	.85387	.85604	-1.28075	-1.17081	-1.17081
-.143	4.253	-.93214	-.93511	-.93333	-.07730	-.07720	-.07653	-1.05918	-.92443	-.92977
	GRADIENT	.03132	.03204	.03181	-.15000	-.13890	-.14358	.02752	.03228	.03197

IA138 AMES 246-1-97 OTS POWER OFF (U3D008) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 79/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.775	-8.201	-.69757	-.71303	-.69886	.51715	.49045	.49899	-.75556	-.69499	-.69628
3.855	-6.249	-.64447	-.65533	-.64126	.54449	.51930	.52777	-.69515	-.63925	-.63764
3.943	-4.229	-.59013	-.59314	-.58862	.52367	.49794	.49449	-.63007	-.58410	-.57581
4.062	-.022	-.51969	-.52272	-.51901	.42482	.41519	.41598	-.56045	-.51531	-.51295
3.978	4.159	-.52138	-.52205	-.51936	.36136	.34358	.33914	-.54699	-.51666	-.51329
	GRADIENT	.00821	.00848	.00827	-.01935	-.01840	-.01852	.00991	.00805	.00746

IA138 AMES 246-1-97 OTS POWER OFF (U3D009) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 88/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.329	-6.183	-.10020	-.09951	-.10031	.04459	.04587	.04559	-.11518	-.10146	-.10157
-4.431	-4.163	-.09768	-.09599	-.09768	.04151	.04620	.04448	-.11070	-.09768	-.09745
-4.469	.092	-.10113	-.09914	-.09926	.04395	.04910	.04615	-.11000	-.09833	-.09763
-4.259	4.257	-.09837	-.09734	-.09598	.03784	.04167	.04458	-.10840	-.09643	-.09506
-4.186	6.273	-.09749	-.09692	-.09601	.03931	.04426	.04432	-.10719	-.09578	-.09372
	GRADIENT	-.00008	-.00016	.00020	-.00043	-.00053	.00001	.00027	.00015	.00028

RUN NO. 87/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.187	-5.803	-.11660	-.11660	-.11708	.05112	.04905	.05236	-.12887	-.11612	-.12045
-.160	-3.828	-.11677	-.11796	-.11772	.04740	.04835	.04969	-.12886	-.11748	-.11964
-.165	.135	-.10625	-.10647	-.10602	.05265	.05163	.05039	-.11590	-.10545	-.10568
-.105	4.236	-.10006	-.09972	-.09938	.04702	.04798	.05192	-.11142	-.09927	-.09847
-.092	6.226	-.09782	-.09734	-.09723	.04333	.04509	.05062	-.11318	-.09734	-.09675
	GRADIENT	.00207	.00226	.00227	-.00005	-.00005	.00028	.00216	.00225	.00262

IA138 AMES 246-1-97 OTS POWER OFF (U3D009) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 86/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.891	-6.224	-.11110	-.11311	-.11240	.05606	.05229	.05753	-.12265	-.11052	-.10792
3.987	-4.245	-.11143	-.11143	-.11201	.06016	.05457	.06002	-.12393	-.11107	-.10932
4.106	-.037	-.10770	-.10735	-.10735	.06146	.05511	.06027	-.11905	-.10770	-.10665
4.017	4.143	-.10296	-.10272	-.10272	.06055	.05414	.05706	-.11576	-.10296	-.10120
3.984	6.177	-.10075	-.10087	-.10052	.05406	.05375	.05802	-.11320	-.10099	-.09970
	GRADIENT	.00101	.00104	.00111	.00005	-.00005	-.00035	.00097	.00097	.00097

IA138 AMES 246-1-97 OTS POWER OFF (U3D010) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 89/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.320	-5.658	-.02684	-.02601	-.02660	.00979	.01454	.01216	-.03241	-.02767	-.02885
-4.420	-3.639	-.02930	-.02919	-.03022	.01021	.01522	.01238	-.03542	-.03149	-.03138
-4.454	.614	-.02861	-.02641	-.02837	.00957	.01454	.01205	-.03240	-.02837	-.02837
-4.242	4.779	-.03061	-.02822	-.02870	.00911	.01356	.01161	-.03263	-.02965	-.02811
-4.168	6.796	-.03397	-.03175	-.03093	.00977	.01423	.01205	-.03525	-.03280	-.02953
	GRADIENT	-.00015	.00012	.00018	-.00013	-.00020	-.00009	.00033	.00022	.00039

RUN NO. 90/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.205	-5.707	-.03551	-.03551	-.03526	.01178	.01555	.01409	-.03889	-.03569	-.03626
-.214	-3.772	-.04031	-.03981	-.03993	.01198	.01596	.01358	-.04333	-.04031	-.04245
-.191	.261	-.02166	-.02101	-.02101	.01128	.01575	.01430	-.02399	-.02231	-.02282
-.163	4.306	-.03064	-.02935	-.02999	.01129	.01549	.01496	-.03361	-.03051	-.03064
	GRADIENT	.00120	.00129	.00123	-.00008	-.00006	.00017	.00120	.00121	.00146

IA138 AMES 246-1-97 OTS POWER OFF (U3D010) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 91/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.905	-5.700	-.03806	-.03978	-.03819	.01741	.02085	.01842	-.04203	-.03832	-.03620
4.002	-3.727	-.04101	-.04075	-.04049	.01822	.02166	.01900	-.04487	-.04101	-.03908
4.119	.481	-.03120	-.03120	-.03146	.01651	.02081	.01812	-.03574	-.03211	-.03016
4.026	4.663	-.03130	-.03130	-.03117	.01563	.01973	.01733	-.03582	-.03182	-.03079
3.993	6.692	-.02694	-.02733	-.02746	.01593	.02057	.01812	-.03136	-.02759	-.02720
	GRADIENT	.00116	.00113	.00111	-.00031	-.00023	-.00020	.00108	.00110	.00099

IA138 AMES 246-1-97 OTS POWER OFF (U3D011) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 229/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.264	-6.397	.15366	.14795	.15556	-.02983	-.02310	-.03928	.17364	.16127	.16889
-4.368	-4.375	.12538	.12392	.13336	-.02758	-.02130	-.03614	.14571	.13772	.13627
-4.404	-.124	.15666	.15477	.16327	-.02613	-.01972	-.03417	.18217	.17272	.16610
-4.198	4.037	.23739	.23604	.23874	-.02655	-.02112	-.03694	.26037	.25091	.23334
-4.126	6.050	.17258	.16692	.16786	-.02593	-.02130	-.03587	.18672	.17635	.16692
	GRADIENT	.01329	.01331	.01251	.00012	.00002	-.00009	.01361	.01344	.01152

RUN NO. 228/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.149	-6.439	.81587	.80415	.80415	-.04074	-.03383	-.05434	.77678	.79633	.81978
-.156	-4.496	2.05969	2.01814	2.03892	-.04033	-.03424	-.05598	2.03892	2.04931	2.16358
-.140	-.463	1.75844	1.70650	1.72727	-.04016	-.03136	-.05330	1.80000	1.77922	1.86233
-.112	3.572	.30844	.30153	.30499	-.03507	-.02621	-.04712	.33439	.31363	.31191
-.095	5.578	.21323	.20507	.21051	-.03465	-.02518	-.04633	.22957	.21732	.20915
	GRADIENT	-.21707	-.21277	-.21492	.00065	.00100	.00110	-.21128	-.21514	-.22951

IA138 AMES 246-1-97 OTS POWER OFF (U3D011) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 227/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.882	-6.439	-.36511	-.37066	-.35586	-.05226	-.04775	-.07532	-.37991	-.36696	-.34846
3.977	-4.460	-.96510	-.98296	-.94725	-.05020	-.04391	-.06847	-1.03652	-.95618	-.94279
4.101	-.255	-3.00451	-3.02021	-2.95740	-.05283	-.04369	-.06518	-3.24007	-2.95740	-2.95740
4.014	3.925	.65128	.65906	.65517	-.04892	-.03710	-.06000	.71362	.66686	.66690
3.981	5.962	-2.50796	-2.50795	-2.52365	-.04462	-.03435	-.05500	-2.88471	-2.53935	-2.64922
	GRADIENT	.19210	.19516	.19044	.00015	.00081	.00101	.20800	.19290	.19130

IA138 AMES 246-1-97 OTS POWER OFF (U3D012) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 101/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.315	-8.151	-.24043	-.24230	-.24230	.19635	.19253	.20212	-.28663	-.24043	-.24123
-4.407	-6.183	-.25157	-.25262	-.25183	.18826	.18710	.19076	-.29854	-.25079	-.25262
-4.468	-4.136	-.25350	-.25374	-.25232	.16496	.17578	.17282	-.28907	-.25068	-.25115
-4.503	.113	-.21768	-.21791	-.21586	.17362	.15776	.16854	-.24315	-.21382	-.21291
-4.296	4.272	-.24702	-.24874	-.24726	.15292	.15165	.16961	-.28367	-.24529	-.24652
-4.220	6.289	-.22249	-.22418	-.22206	.14655	.14436	.15967	-.26002	-.22122	-.22101
	GRADIENT	.00080	.00062	.00063	-.00142	-.00287	-.00038	.00068	.00067	.00058

RUN NO. 100/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.265	-8.168	-.36869	-.37048	-.36780	.42467	.34938	.39135	-.41010	-.36363	-.36869
-.270	-6.243	-.41822	-.41890	-.42026	.37912	.32453	.36784	-.46335	-.41652	-.42263
-.258	-4.260	-.34293	-.34475	-.34445	.34517	.30502	.33972	-.38348	-.34293	-.34324
-.240	-.227	-.31407	-.31753	-.31596	.32558	.27924	.31627	-.35933	-.31219	-.31219
-.212	3.807	-.33009	-.33100	-.33009	.27550	.25413	.27812	-.39732	-.32734	-.32948
-.195	5.817	-.28292	-.28378	-.28292	.22476	.22067	.25245	-.34436	-.28063	-.28120
	GRADIENT	.00159	.00170	.00178	-.00864	-.00631	-.00764	-.00172	.00193	.00171

IA138 AMES 246-1-97 OTS POWER OFF (U3D012) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 99/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.769	-8.191	-.57686	-.59620	-.57589	6.22409	5.23511	6.09074	-.64067	-.57203	-.57009
3.849	-6.242	-.52392	-.53669	-.52310	3.94666	3.32812	3.88148	-.57745	-.52104	-.51610
3.937	-4.224	-.49906	-.50436	-.50095	1.39617	1.19066	1.35103	-.54227	-.49603	-.48579
4.056	-.021	-.43333	-.43574	-.43264	1.28043	1.11838	1.27290	-.47786	-.42884	-.42435
3.968	4.157	-.46616	-.46812	-.46577	.75997	.65204	.73400	-.50185	-.46224	-.45871
3.938	6.188	-.37724	-.37994	-.38095	.60642	.54336	.63971	-.42192	-.37589	-.37352
	GRADIENT	.00394	.00434	.00421	-.07586	-.06422	-.07357	.00483	.00404	.00324

IA138 AMES 246-1-97 OTS POWER OFF (U3D013) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 102/ 0 RN/L = 3.70 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.274	-8.166	-.08632	-.08563	-.08563	.05817	.06328	.06593	-.10227	-.08632	-.08821
-4.367	-6.199	-.09761	-.09678	-.09794	.05952	.06569	.06717	-.11919	-.10010	-.10027
-4.429	-4.154	-.10556	-.10371	-.10656	.05598	.06231	.05967	-.12571	-.10673	-.10656
-4.463	.097	-.09412	-.09060	-.09194	.06084	.06517	.06505	-.10823	-.09060	-.08942
-4.259	4.257	-.09100	-.08953	-.08774	.05311	.05639	.06102	-.10629	-.08774	-.08644
-4.183	6.274	-.09919	-.09804	-.09656	.04913	.05292	.05816	-.11479	-.09607	-.09393
	GRADIENT	.00173	.00169	.00224	-.00034	-.00070	.00016	.00232	.00226	.00240

RUN NO. 103/ 0 RN/L = 3.71 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.206	-7.790	-.08672	-.08656	-.08688	.05420	.05944	.06293	-.10052	-.08559	-.09314
-.178	-5.827	-.10480	-.10463	-.10564	.05688	.06292	.06571	-.12292	-.10447	-.11000
-.162	-3.821	-.10102	-.10230	-.10230	.05340	.05979	.05953	-.11710	-.10134	-.10548
-.167	.138	-.09347	-.09363	-.09347	.06015	.06234	.06121	-.10914	-.09214	-.09214
-.104	4.234	-.08088	-.08037	-.07934	.05758	.05933	.06207	-.09874	-.07985	-.07882
-.091	6.223	-.08049	-.08018	-.07958	.05406	.05717	.06054	-.10040	-.07973	-.07897
	GRADIENT	.00250	.00273	.00285	.00051	-.00006	.00031	.00228	.00267	.00331

IA138 AMES 246-1-97 OTS POWER OFF (U3D013) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 104/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.811	-8.205	-.08896	-.09672	-.09054	.05596	.05427	.05668	-.10291	-.08911	-.08610
3.891	-6.255	-.10681	-.11067	-.10874	.05817	.05834	.06055	-.12114	-.10648	-.10181
3.979	-4.237	-.09430	-.09430	-.09478	.06219	.06147	.06275	-.10977	-.09366	-.09095
4.096	-.034	-.07739	-.07691	-.07659	.06834	.06525	.06773	-.09299	-.07707	-.07548
4.012	4.141	-.08428	-.08350	-.08319	.06874	.06366	.06480	-.10180	-.08366	-.08147
3.981	6.173	-.08697	-.08697	-.08697	.05732	.06019	.06518	-.10402	-.08697	-.08561
	GRADIENT	.00120	.00129	.00139	.00078	.00026	.00025	.00095	.00120	.00113

IA138 AMES 246-1-97 OTS POWER OFF (U3D014) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 153/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.327	-6.171	-.43267	-.42838	-.43181	-.23482	-.21182	-.24195	-.48670	-.43739	-.43867
-4.426	-4.150	-.40079	-.39477	-.40199	-.25308	-.24961	-.26645	-.45050	-.40239	-.40159
-4.463	.100	-.37685	-.36933	-.37346	-.29580	-.28879	-.30733	-.41144	-.36970	-.36820
-4.259	4.256	-.36541	-.36240	-.35863	-.27524	-.27183	-.31855	-.40120	-.35826	-.35524
-4.182	6.272	-.30645	-.30422	-.30167	-.30640	-.30866	-.34662	-.33577	-.30103	-.29816
	GRADIENT	.00421	.00386	.00516	-.00266	-.00267	-.00621	.00598	.00526	.00552

RUN NO. 152/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.213	-6.216	-.79851	-.79414	-.79924	-.18967	-.16348	-.19812	-.87077	-.79487	-.82187
-.218	-4.275	-.63378	-.63792	-.63911	-.19309	-.17257	-.20497	-.69413	-.63378	-.64858
-.196	-.245	-.56001	-.56217	-.56109	-.22002	-.18651	-.21405	-.60802	-.55677	-.55623
-.173	3.793	-.49283	-.49134	-.49035	-.20973	-.18734	-.22816	-.53952	-.48787	-.48538
-.156	5.802	-.51113	-.51004	-.50896	-.20999	-.19154	-.24257	-.58095	-.50896	-.50734
	GRADIENT	.01747	.01817	.01844	-.00206	-.00183	-.00287	.01916	.01809	.02023

IA138 AMES 246-1-97 OTS - POWER OFF (U3D014) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 151/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.822	-6.214	-.68459	-.69504	-.69308	-.17606	-.15311	-.18359	-.74401	-.68067	-.66239
3.916	-4.237	-.67070	-.67070	-.67397	-.19862	-.17000	-.20186	-.73668	-.66940	-.65895
4.035	-.034	-.71741	-.71668	-.71741	-.20805	-.17728	-.21057	-.78905	-.71668	-.70937
3.952	4.145	-.57689	-.57453	-.57512	-.21614	-.18145	-.21051	-.64190	-.57394	-.56684
3.917	6.174	-.56583	-.56406	-.56347	-.18923	-.17471	-.21013	-.62905	-.56524	-.56052
	GRADIENT	.01117	.01145	.01177	-.00209	-.00137	-.00103	.01128	.01137	.01097

IA138 AMES 246-1-97 OTS POWER OFF (U3D015) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 130/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.135	-7.811	-1.90233	-1.91488	-1.91032	1.95330	1.97875	1.92636	-2.10536	-1.89891	-1.89777
-4.128	-5.841	-2.97309	-2.98751	-2.97850	1.32935	1.42155	1.30298	-3.29556	-2.96048	-2.97129
-4.112	-3.859	-2.29634	-2.29774	-2.28796	1.17011	1.15559	1.13068	-2.50166	-2.27539	-2.28238
-4.028	.041	-1.34864	-1.34864	-1.34697	1.20322	1.16886	1.12736	-1.47040	-1.33696	-1.33112
-4.024	3.905	-1.33903	-1.34487	-1.33903	.74256	.75906	.76767	-1.47921	-1.33319	-1.33736
-4.044	5.897	-1.03118	-1.03776	-1.03447	.66252	.68366	.68662	-1.15353	-1.02723	-1.03052
	GRADIENT	.12350	.12292	.12241	-.05498	-.05099	-.04669	.13190	.12155	.12192

RUN NO. 129/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.243	-7.786	2.96722	2.97943	2.96198	-1.00520	-.92458	-.91523	3.21330	2.93057	2.97245
-.218	-5.813	2.91968	2.92491	2.93014	-1.48917	-1.39635	-1.41368	3.14999	2.90397	2.92491
-.202	-3.806	6.60968	6.64160	6.64160	-4.02492	-3.63077	-3.76912	7.14439	6.60169	6.61766
-.205	.156	18.40764	18.62059	18.54214	-3.94277	-3.68224	-3.77426	20.18971	18.37402	18.3[illegible]402
-.144	4.252	-4.12871	-4.14137	-4.13884	16.52214	16.35069	16.43726	-4.69604	-4.11604	-4.13124
-.131	6.241	-4.08816	-4.09832	-4.08816	1.89841	1.97051	2.03888	-4.63414	-4.06277	-4.08055
	GRADIENT	-1.35623	-1.36205	-1.36162	2.56379	2.49339	2.52140	-1.49547	-1.35362	-1.35749

IA138 AMES 246-1-97 OTS POWER OFF (U3D015) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 128/ 0 RN/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.629	-7.852	.82689	.84716	.82541	-.54045	-.48602	-.51043	.89858	.82145	.82294
3.671	-5.871	1.18790	1.20456	1.18428	-.59847	-.54764	-.57424	1.28350	1.17776	1.17341
3.675	-3.870	.94061	.94472	.93885	-.72212	-.66087	-.68240	1.01224	.93356	.92182
3.627	.061	1.15908	1.16416	1.15981	-.78518	-.74179	-.76953	1.25327	1.14967	1.14242
3.629	3.907	1.03833	1.04288	1.03963	-.88454	-.80849	-.82636	1.09418	1.03054	1.02404
3.658	5.883	1.27002	1.27657	1.27903	-.88526	-.84627	-.89642	1.37654	1.26592	1.26428
	GRADIENT	.01272	.01278	.01312	-.02087	-.01899	-.01852	.01072	.01263	.01330

IA138 AMES 246-1-97 OTS POWER OFF (U3D016) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 139/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.084	-5.828	-.15175	-.15112	-.15238	.06913	.06812	.06724	-.17103	-.15380	-.15365
-4.074	-3.877	-.14783	-.14537	-.14783	.06700	.06931	.06655	-.16524	-.14783	-.14829
-3.995	.025	-.15709	-.15385	-.15531	.06865	.07125	.06805	-.17083	-.15369	-.15288
-3.984	3.890	-.15209	-.14983	-.14821	.06136	.06299	.06706	-.16666	-.14805	-.14675
-4.005	5.882	-.15417	-.15251	-.15134	.05859	.06150	.06276	-.16863	-.15068	-.14868
	GRADIENT	-.00055	-.00058	-.00005	-.00072	-.00081	.00007	-.00018	-.00003	.00020

RUN NO. 138/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.187	-5.798	-.16247	-.16247	-.16294	.08226	.07652	.08080	-.17842	-.16231	-.16721
-.162	-3.821	-.16991	-.17124	-.17107	.07586	.07362	.07487	-.18585	-.17057	-.17323
-.164	.139	-.16031	-.16112	-.16079	.08065	.07796	.07786	-.17502	-.15999	-.15999
-.105	4.239	-.15913	-.15862	-.15828	.07184	.06971	.07536	-.17627	-.15793	-.15708
-.092	6.227	-.15446	-.15395	-.15378	.06979	.06908	.07668	-.17630	-.15343	-.15241
	GRADIENT	.00133	.00156	.00158	-.00051	-.00049	.00006	.00118	.00156	.00200

IA138 AMES 246-1-97 OTS POWER OFF (U3D016) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 137/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.683	-5.865	-.16313	-.16378	-.16426	.09355	.08631	.09087	-.17723	-.16151	-.15665
3.715	-3.882	-.15904	-.15839	-.15920	.09541	.08615	.09118	-.17699	-.15904	-.15629
3.665	.044	-.16280	-.16211	-.16143	.09825	.08846	.09260	-.18053	-.16211	-.16041
3.669	3.895	-.15447	-.15381	-.15381	.09914	.08757	.08959	-.17274	-.15364	-.15315
3.698	5.869	-.15197	-.15114	-.15147	.08502	.08326	.08781	-.17005	-.15164	-.15031
	GRADIENT	.00058	.00058	.00069	.00048	.00018	-.00020	.00054	.00069	.00040

IA138 AMES 246-1-97 OTS POWER OFF (U3D017) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 176/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.313	-8.156	-3.00332	-3.02350	-3.01066	-.86888	-.83308	-.81299	-3.30054	-2.99048	-3.02167
-4.407	-6.184	-2.29520	-2.30939	-2.29945	-1.45464	-1.34419	-1.38928	-2.54360	-2.28810	-2.31365
-4.469	-4.139	-1.56025	-1.56416	-1.55730	-3.79244	-3.67029	-3.59463	-1.70230	-1.55241	-1.55535
-4.507	.113	-1.52154	-1.52253	-1.51362	2.68421	2.56143	2.43892	-1.61858	-1.50867	-1.49976
-4.299	4.277	-1.31806	-1.32487	-1.31891	2.49409	2.48391	2.51285	-1.43047	-1.31125	-1.31125
	GRADIENT	.02871	.02837	.02826	.74977	.73389	.72820	.03226	.02859	.02895

RUN NO. 175/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.243	-7.780	2.94170	2.96624	2.94170	-.49056	-.43721	-.46696	3.18010	2.91716	2.95397
-.216	-5.811	18.21869	18.26270	18.24069	-.52868	-.47652	-.51737	19.59402	18.04263	18.32872
-.199	-3.807	18.08537	18.18436	18.16237	-.58309	-.54056	-.57344	19.47122	18.05237	18.09636
-.206	.152	-23.82903	-23.98985	-23.91675	-.62731	-.57637	-.60733	-25.97813	-23.79980	-23.82903
-.144	4.255	-23.47968	-23.55280	-23.47968	-.83342	-.76357	-.80973	-26.71181	-23.36267	-23.43581
	GRADIENT	-5.12439	-5.14549	-5.13376	-.03117	-.02777	-.02943	-5.69537	-5.10577	-5.12028

IA138 AMES 246-1-97 OTS POWER OFF (U3D017) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 174/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.716	-8.192	.82960	.84743	.83158	-.31929	-.28320	-.30031	.89348	.82515	.82614
3.794	-6.241	.81420	.82806	.81321	-.37443	-.33095	-.34998	.87904	.81073	.81172
3.883	-4.224	.93691	.94340	.94104	-.38058	-.34516	-.37317	1.00539	.92923	.91801
4.000	-.017	1.30422	1.31577	1.30669	-.40967	-.38825	-.41086	1.40073	1.29515	1.29020
3.909	4.161	1.49979	1.50742	1.50360	-.44209	-.40107	-.42145	1.57419	1.48929	1.48357
	GRADIENT	.06716	.06729	.06712	-.00734	-.00667	-.00576	.06787	.06682	.06748

IA138 AMES 246-1-97 OTS POWER OFF (U3D018) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 142/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.146	-7.790	1.90860	1.91650	1.90973	-.35525	-.32726	-.33464	2.09010	1.90297	1.91199
-4.141	-5.831	1.87817	1.89169	1.88380	-.41325	-.37095	-.39602	2.07545	1.87478	1.88831
-4.126	-3.853	1.86767	1.87555	1.86767	-.39405	-.36476	-.37221	2.03201	1.85529	1.85979
-4.038	.041	2.24785	2.25611	2.23960	-.49363	-.43841	-.43840	2.42530	2.22860	2.21071
-4.035	3.896	1.83435	1.83999	1.82984	-.46858	-.42746	-.44418	1.99229	1.82081	1.82420
	GRADIENT	-.00413	-.00441	-.00471	-.00965	-.00811	-.00930	-.00495	-.00428	-.00443

RUN NO. 143/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.243	-7.755	4.21799	4.25771	4.21551	-.48271	-.43583	-.45061	4.55306	4.18076	4.23785
-.217	-5.802	20.74693	20.82068	20.82068	-.49106	-.45064	-.47374	22.36929	20.59946	20.98048
-.202	-3.799	-21.13155	-21.25676	-21.21921	-.54012	-.51012	-.52583	-22.64659	-21.06895	-21.13155
-.202	.155	-4.16094	-4.18341	-4.17842	-.76069	-.70862	-.72662	-4.51293	-4.14846	-4.15845
-.139	4.240	-6.82705	-6.84371	-6.84371	-.81937	-.75728	-.77906	-7.71826	-6.79790	-6.83121
	GRADIENT	1.76613	1.77957	1.77492	-.03463	-.03064	-.03140	1.84259	1.76202	1.76561

IA138 AMES 246-1-97 OTS POWER OFF (U3D018) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 144/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.575	-7.826	-1.11354	-1.13123	-1.10961	-3.79407	-3.44998	-3.44991	-1.19872	-1.10830	-1.10830
3.619	-5.857	-.98467	-.99532	-.97993	-.07549	-.06893	-.06941	-1.05567	-.97638	-.98171
3.624	-3.860	-1.05588	-1.06243	-1.05719	3.87399	3.66219	3.73083	-1.13582	-1.04670	-1.04081
3.574	.059	-.87315	-.88017	-.87801	1.77893	1.71607	1.72250	-.93857	-.86936	-.86395
3.576	3.895	-.80489	-.80838	-.80738	1.54480	1.45133	1.44528	-.84275	-.80041	-.79742
	GRADIENT	.03242	.03281	.03226	-.30120	-.28586	-.29551	.03784	.03181	.03143

IA138 AMES 246-1-97 OTS POWER OFF (U3D019) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 121/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.068	-5.303	.11785	.11730	.11923	-.02120	-.00327	-.03088	.12995	.12088	.12143
-4.058	-3.351	.14332	.14332	.14399	-.01938	-.00301	-.02826	.15869	.14800	.14666
-3.976	.545	.12255	.11864	.12135	-.01946	-.00417	-.02666	.13098	.12285	.12105
-3.965	4.408	.12805	.12425	.12488	-.02228	-.00652	-.02925	.13469	.12836	.12362
-3.985	6.398	.13391	.12820	.12630	-.02228	-.00633	-.02799	.13739	.13106	.12377
	GRADIENT	-.00197	-.00246	-.00247	-.00037	-.00045	-.00013	-.00310	-.00254	-.00298

RUN NO. 122/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.184	-5.277	.14475	.14415	.14415	-.02535	-.00875	-.03421	.15139	.14505	.14626
-.159	-3.302	.15357	.15222	.15122	-.02383	-.00825	-.03085	.15926	.15289	.15758
-.147	.651	.14304	.14163	.14233	-.02257	-.00838	-.03068	.14869	.14339	.14516
-.098	4.757	.14890	.14627	.14702	-.02439	-.00954	-.03308	.15565	.14890	.15077
-.085	6.745	.15209	.15321	.15321	-.02708	-.01119	-.03649	.16108	.15284	.15171
	GRADIENT	-.00057	-.00073	-.00051	-.00007	-.00016	-.00028	-.00043	-.00048	-.00083

IA138 AMES 246-1-97 OTS POWER OFF (U3D019) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 123/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.698	-5.343	.18821	.19061	.18821	-.03198	-.01806	-.03895	.20018	.18861	.18622
3.731	-3.362	.19653	.19610	.19568	-.03402	-.01918	-.03986	.21316	.19738	.19440
3.676	.564	.16410	.16410	.16450	-.03030	-.01580	-.03400	.17887	.16450	.16250
3.677	4.413	.15771	.15731	.15771	-.03189	-.01428	-.03653	.17008	.15971	.15652
3.704	6.383	.19730	.19681	.19829	-.03289	-.01480	-.03969	.21116	.19829	.19829
	GRADIENT	-.00500	-.00500	-.00489	.00028	.00063	.00043	-.00555	-.00486	-.00488

IA138 AMES 246-1-97 OTS POWER OFF (U3D020) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 120/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.020	-6.048	.06493	.06378	.06608	-.00963	.01331	-.01779	.06896	.06637	.06867
-4.011	-4.097	.05839	.05707	.05997	-.00996	.01388	-.01750	.06312	.06102	.06076
-3.931	-.198	.05674	.05622	.05753	-.00999	.01185	-.01779	.06173	.05989	.05779
-3.922	3.665	.05521	.05337	.05442	-.01127	.01020	-.01816	.05914	.05704	.05494
-3.942	5.654	.06030	.05743	.05829	-.01132	.00942	-.01792	.06317	.06116	.05858
	GRADIENT	-.00041	-.00048	-.00071	-.00017	-.00047	-.00008	-.00051	-.00051	-.00075

RUN NO. 119/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.128	-6.019	.06544	.06393	.06418	-.01055	.01579	-.01810	.06317	.06493	.06645
-.102	-4.042	.06783	.06626	.06652	-.01023	.01511	-.01792	.06652	.06757	.06993
-.105	-.082	.05925	.05788	.05815	-.01042	.01297	-.01889	.06090	.05953	.06173
-.044	4.016	.05934	.05848	.05877	-.01177	.01239	-.01978	.06366	.06021	.05992
-.031	6.002	.05501	.05344	.05475	-.01105	.01239	-.01833	.05738	.05554	.05580
	GRADIENT	-.00105	-.00096	-.00096	-.00019	-.00034	-.00023	-.00035	-.00091	-.00124

IA138 AMES 246-1-97 OTS POWER OFF (U3D020) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 118/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.741	-6.087	.07349	.07459	.07212	-.01384	.01152	-.02169	.07349	.07266	.07047
3.773	-4.104	.07305	.07448	.07190	-.01491	.01152	-.02255	.07649	.07276	.07247
3.721	-.179	.06309	.06337	.06227	-.01466	.01196	-.02259	.06639	.06392	.06309
3.728	3.670	.05711	.05711	.05711	-.01545	.01072	-.02242	.06094	.05793	.05793
3.758	5.641	.04915	.04840	.04865	-.01620	.01109	-.02319	.05294	.04941	.05016
	GRADIENT	-.00205	-.00224	-.00190	-.00007	-.00010	.00002	-.00200	-.00191	-.00187

IA138 AMES 246-1-97 OTS POWER OFF (U3D021) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 160/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.082	-5.830	-.68081	-.67750	-.68413	-13.06842	-13.96143	-13.39968	-.77961	-.69076	-.69142
-4.069	-3.871	-.74954	-.73700	-.75039	9.16877	9.81954	9.40228	-.84038	-.75708	-.75187
-3.991	.025	-.75580	-.74095	-.74837	-3.97306	-4.16369	-4.02572	-.81371	-.74614	-.73724
-3.984	3.889	-.72436	-.71989	-.71246	3.17688	3.39327	3.46822	-.79055	-.71320	-.70502
-4.004	5.882	-.63880	-.63614	-.63082	3.15325	3.37747	3.46032	-.69260	-.62883	-.61887
	GRADIENT	.00325	.00220	.00488	-.77564	-.83183	-.76830	.00642	.00565	.00603

RUN NO. 159/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.207	-6.227	-1.56233	-1.55949	-1.56658	-1.07433	-1.09176	-1.14814	-1.69572	-1.55523	-1.59780
-.214	-4.287	-1.56495	-1.56920	-1.57346	-.87367	-.90003	-.92036	-1.70668	-1.56353	-1.59471
-.196	-.254	-1.49631	-1.50057	-1.49346	-1.18062	-1.10103	-1.13197	-1.61008	-1.48920	-1.49631
-.175	3.787	-.97286	-.97286	-.96895	-4.31822	-4.03952	-4.29115	-1.05583	-.96603	-.96114
-.159	5.796	-1.09900	-1.09552	-1.09552	-1.63051	-1.64329	-1.75490	-1.23324	-1.09552	-1.09090
	GRADIENT	.07336	.07389	.07490	-.42679	-.38900	-.41765	.08064	.07403	.07850

IA138 AMES 246-1-97 OTS POWER OFF (U3D021) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800 SRBPR = .000
SSMEPR = .000

RUN NO. 158/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.628	-5.867	-1.51328	-1.51894	-1.52035	-.41225	-.40133	-.42744	-1.67591	-1.51187	-1.49066
3.660	-3.881	-2.77833	-2.77054	-2.76275	-.46512	-.44658	-.47981	-3.10815	-2.75756	-2.73158
3.606	.045	-4.52705	-4.51364	-4.51364	-.60271	-.56836	-.59935	-4.97838	-4.51364	-4.45555
3.611	3.896	-1.40248	-1.39824	-1.39401	-.93804	-.87671	-.90081	-1.55226	-1.39966	-1.38977
3.641	5.870	-1.78643	-1.77912	-1.78095	-1.40844	-1.38175	-1.49046	-1.96903	-1.78095	-1.77000
	GRADIENT	.17486	.17441	.17395	-.06072	-.05522	-.05405	.19783	.17256	.17052

IA138 AMES 246-1-97 OTS POWER OFF (U3D022) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 161/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.323	-5.648	-.17450	-.17363	-.17494	.24869	.32627	.29617	-.19367	-.17712	-.18017
-4.422	-3.629	-.16280	-.16280	-.16442	.16173	.21240	.19044	-.18311	-.16930	-.16727
-4.453	.620	-.13522	-.12947	-.13253	.14645	.19589	.17245	-.14595	-.13483	-.13330
-4.246	4.780	-.11810	-.11265	-.11374	.16434	.22286	.18914	-.12464	-.11628	-.11083
-4.165	6.794	-.13045	-.12465	-.12248	.15118	.20536	.16891	-.13480	-.12791	-.11921
	GRADIENT	.00532	.00597	.00603	.00030	.00123	-.00017	.00696	.00631	.00672

RUN NO. 162/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.135	-5.705	-.15727	-.15685	-.15644	.21553	.27948	.25340	-.16587	-.15727	-.15810
-.203	-3.765	-.11271	-.11197	-.11122	.15541	.20062	.17160	-.11904	-.11197	-.11867
-.182	.266	-.13276	-.13168	-.13204	.09951	.13485	.11836	-.13926	-.13312	-.13601
-.164	4.306	-.15001	-.14716	-.14920	.08618	.11484	.10343	-.15813	-.15041	-.15123
-.148	6.315	-.14375	-.14413	-.14337	.10479	.13939	.12213	-.15214	-.14413	-.14185
	GRADIENT	-.00462	-.00436	-.00470	-.00858	-.01063	-.00845	-.00484	-.00476	-.00403

IA138 AMES 246-1-97 OTS POWER OFF (U3D022) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 163/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.845	-5.693	-.16336	-.16795	-.16374	.15923	.19970	.17671	-.17523	-.16450	-.16067
3.942	-3.722	-.14613	-.14650	-.14577	.15517	.19116	.16374	-.15845	-.14650	-.14360
4.057	.487	-.16058	-.16189	-.16276	.13478	.17085	.14120	-.17715	-.16276	-.16015
3.965	4.671	-.14254	-.14173	-.14173	.12666	.15904	.13420	-.15560	-.14418	-.14132
3.930	6.698	-.12774	-.12738	-.12774	.12017	.15213	.13155	-.13821	-.12846	-.12810
	GRADIENT	.00042	.00056	.00048	-.00340	-.00383	-.00352	.00034	.00027	.00027

IA138 AMES 246-1-97 OTS POWER OFF (U3D023) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 172/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.018	-6.053	.16564	.15990	.16646	-.02795	-.02985	-.04523	.17630	.16892	.17630
-4.007	-4.095	.18661	.18095	.19322	-.02584	-.02723	-.04166	.20454	.19605	.19510
-3.927	-.198	.25811	.25676	.26622	-.02731	-.02942	-.04154	.28918	.27432	.26892
-3.922	3.665	.15173	.14600	.14845	-.02892	-.03226	-.04282	.16483	.15500	.14845
-3.945	5.658	.17532	.16778	.16966	-.03165	-.03686	-.04646	.18662	.17626	.17061
	GRADIENT	-.00446	-.00447	-.00573	-.00040	-.00065	-.00015	-.00508	-.00525	-.00597

RUN NO. 171/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.144	-6.452	.39028	.38509	.37989	-.04086	-.04708	-.06774	.37297	.38335	.39028
-.153	-4.509	.38389	.37351	.37351	-.03492	-.04066	-.05708	.37006	.37524	.39254
-.136	-.477	.22996	.22552	.22663	-.04058	-.04627	-.06622	.23662	.23218	.23773
-.113	3.562	.23107	.22429	.22835	-.03739	-.04149	-.05823	.24869	.23242	.23107
-.098	5.571	.16275	.16086	.16181	-.03886	-.04411	-.05855	.17787	.16370	.16181
	GRADIENT	-.01893	-.01849	-.01798	-.00031	-.00010	-.00014	-.01503	-.01769	-.02000

IA138 AMES 246-1-97 OTS POWER OFF (U3D023) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 170/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.683	-6.089	-.59567	-.60352	-.59043	-.07381	-.08574	-.10303	-.60090	-.59043	-.56949
3.716	-4.103	-1.02895	-1.04242	-1.01996	-.06314	-.07313	-.08896	-1.07386	-1.01996	-1.01098
3.662	-.177	2.08705	2.09725	2.05644	-.07084	-.08128	-.09980	2.19926	2.05644	2.06665
3.672	3.672	.30476	.30304	.30304	-.05925	-.06872	-.08631	.32550	.30995	.30822
3.703	5.644	.68850	.68077	.69623	-.06063	-.06720	-.08331	.76195	.69236	.70783
	GRADIENT	.17361	.17513	.17220	.00049	.00056	.00033	.18215	.17309	.17171

IA138 AMES 246-1-97 OTS POWER OFF (U3D024) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 199/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.072	-5.311	1.54406	1.52758	1.56054	-.06272	-.06682	-.08213	1.72531	1.57290	1.58525
-4.059	-3.353	4.26136	4.22555	4.28524	-.06193	-.06657	-.08155	4.82256	4.42853	4.36882
-3.976	.546	.61940	.59441	.60690	-.05823	-.06148	-.07631	.66579	.61583	.61047
-3.970	4.412	1.43968	1.37808	1.38629	-.06034	-.06222	-.07599	1.51772	1.42326	1.36576
-3.988	6.402	.89401	.84669	.83673	-.05964	-.06222	-.07172	.92390	.87409	.81431
	GRADIENT	-.36422	-.36753	-.37417	.00021	.00056	.00072	-.42654	-.38789	-.38759

RUN NO. 198/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.192	-5.710	1.00717	.99966	.99966	-.06850	-.07256	-.08944	1.06475	1.00968	1.01218
-.199	-3.770	.58200	.57784	.57923	-.06562	-.06835	-.08135	.60556	.58200	.60972
-.184	.264	.63558	.63202	.63024	-.06561	-.07120	-.08956	.66585	.63736	.64805
-.159	4.305	.89134	.87153	.88391	-.05800	-.06042	-.07772	.93838	.89876	.90372
-.144	6.315	.63503	.64214	.63325	-.06235	-.06482	-.08117	.67415	.64037	.62969
	GRADIENT	.03832	.03638	.03774	.00094	.00098	.00045	.04123	.03924	.03642

IA138 TABULATED FORCE DATA

IA138 AMES 246-1-97 OTS POWER OFF (U3D024) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 197/ 0 RN/L = 3.29 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.648	-5.348	-4.90131	-4.96910	-4.87418	-.08515	-.09192	-.10552	-5.28098	-4.92843	-4.79282
3.678	-3.362	-5.48694	-5.47362	-5.47362	-.08778	-.09218	-.10406	-6.03328	-5.51358	-5.42031
3.624	.565	1.48593	1.48593	1.48593	-.07915	-.08508	-.09654	1.63773	1.49413	1.46541
3.630	4.415	4.00295	3.99109	4.01481	-.07669	-.08222	-.09367	4.34701	4.05040	3.97922
3.658	6.390	.87448	.86953	.87942	-.07632	-.08458	-.09770	.94377	.87942	.87448
	GRADIENT	1.22211	1.21888	1.22192	.00143	.00128	.00134	1.33682	1.23164	1.21046

IA138 AMES 246-1-97 OTS POWER OFF (U3D025) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 108/ 0 RN/L = 2.87 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.013	-6.047	-.42676	-.42450	-.42450	-.01807	.37409	-.03698	-.42336	-.42676	-.42789
-4.004	-4.093	-.58515	-.57976	-.57976	-.01834	.39897	-.03650	-.56899	-.58694	-.58515
-3.927	-.197	-.58827	-.58827	-.57757	-.01628	.35350	-.03114	-.57043	-.58827	-.59184
-3.918	3.661	-4.33343	-4.29454	-4.19087	-.01247	.40930	-.03231	-4.30751	-4.33343	-4.30751
-3.939	5.654	-.59819	-.59641	-.58928	-.01603	.44609	-.03646	-.60888	-.59997	-.59997
	GRADIENT	-.48260	-.47828	-.46493	.00076	.00131	.00054	-.48134	-.48236	-.47926

RUN NO. 109/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.136	-6.015	-4.34639	-4.29454	-4.29454	-.01544	.43610	-.03114	-4.28159	-4.34639	-4.32046
-.102	-.092	3.66040	3.71976	3.61291	-.01842	.37111	-.02956	3.68415	3.67228	3.68415
-.050	4.012	-1.26911	-1.26073	-1.21884	-.01739	.42183	-.03257	-1.28586	-1.28586	-1.26492
-.037	6.000	-3.94661	-3.94661	-3.83027	-.01593	.40683	-.03057	-4.06297	-3.95955	-3.97248
	GRADIENT	-1.20109	-1.21351	-1.17727	.00025	.01236	-.00073	-1.21096	-1.20806	-1.20586

IA138 AMES 246-1-97 OTS POWER OFF (U3D025) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 110/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.737	-6.062	3.66041	3.66041	3.63664	-.01814	.34990	-.03082	3.63664	3.62476	3.64852
3.772	-4.100	.75537	.75045	.73815	-.01935	.36811	-.03350	.75783	.75537	.74307
3.721	-.178	1.22979	1.22572	1.20536	-.02366	.35901	-.03264	1.25422	1.24201	1.23386
3.727	3.664	.53155	.53155	.52102	-.02303	.33645	-.03080	.54208	.53330	.53506
3.759	5.636	1.22165	1.21758	1.17278	-.02217	.36152	-.03189	1.23386	1.22572	1.22572
	GRADIENT	-.02831	-.02768	-.02746	-.00048	-.00407	.00035	-.02725	-.02807	-.02626

IA138 AMES 246-1-97 OTS POWER OFF (U3D026) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 209/ 0 RN/L = 3.31 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.349	-5.052	.23092	.22895	.22895	-.07017	-.05621	-.07732	.26180	.23224	.23946
-4.439	-3.628	.24284	.24219	.24284	-.06893	-.05466	-.07485	.27748	.24742	.25003
-4.474	.618	.16569	.16022	.16295	-.06947	-.05692	-.07803	.18207	.16514	.16514
-4.262	4.780	.14304	.13652	.13746	-.06051	-.04733	-.06916	.15328	.14071	.13698
-4.184	6.792	.20650	.19699	.19461	-.06146	-.04796	-.07043	.21482	.20175	.19283
	GRADIENT	-.01189	-.01259	-.01256	.00100	.00087	.00067	-.01480	-.01271	-.01347

RUN NO. 210/ 0 RN/L = 3.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.175	-5.274	.21668	.21608	.21668	-.06363	-.05291	-.06824	.23413	.21548	.21487
-.148	-3.299	.19221	.19121	.19021	-.06749	-.05528	-.07106	.20424	.19271	.19973
-.153	.658	.16647	.16482	.16482	-.06242	-.04867	-.06643	.17744	.16756	.17086
-.092	4.757	.16020	.15669	.15869	-.06211	-.04895	-.06807	.16823	.16070	.16271
-.079	6.743	.15413	.15413	.15261	-.06036	-.04752	-.06574	.16422	.15362	.15009
	GRADIENT	-.00396	-.00427	-.00390	.00066	.00078	.00037	-.00446	-.00396	-.00446

IA138 AMES 246-1-97 OTS POWER OFF (U3D026) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 211/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.838	-5.692	.17137	.17644	.17289	-.06605	-.05533	-.07609	.18608	.17289	.16985
3.930	-3.713	.18596	.18696	.18445	-.06847	-.05564	-.07548	.20456	.18696	.18395
4.049	.487	.16373	.16482	.16318	-.06862	-.05196	-.07017	.18512	.16592	.16427
3.961	4.663	.14037	.14037	.13991	-.06502	-.04730	-.06481	.15576	.14224	.14084
3.927	6.690	.21874	.21874	.21874	-.06449	-.04900	-.06722	.23579	.21939	.22071
	GRADIENT	-.00544	-.00556	-.00532	.00041	.00100	.00127	-.00583	-.00534	-.00515

IA138 AMES 246-1-97 OTS POWER OFF (U3D027) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 222/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.016	-6.048	.04080	.04012	.04103	-.01551	-.00710	-.02282	.04489	.04149	.04353
-4.005	-4.094	.04124	.04100	.04242	-.01524	-.00692	-.02207	.04713	.04360	.04360
-3.928	-.197	.03960	.03889	.04031	-.01516	-.00766	-.02229	.04407	.04195	.03984
-3.923	3.665	.03932	.03791	.03885	-.01552	-.00805	-.02193	.04283	.04002	.03861
-3.944	5.657	.04110	.03964	.03964	-.01613	-.00901	-.02246	.04378	.04134	.03988
	GRADIENT	-.00025	-.00040	-.00046	-.00004	-.00015	.00002	-.00055	-.00046	-.00064

RUN NO. 221/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.146	-6.445	.04325	.04281	.04215	-.01559	-.00743	-.02352	.04193	.04347	.04479
-.152	-4.506	.05150	.05003	.05003	-.01532	-.00736	-.02381	.05028	.05101	.05394
-.136	-.477	.04189	.04121	.04098	-.01681	-.00818	-.02536	.04325	.04189	.04234
-.115	3.562	.03619	.03553	.03531	-.01630	-.00854	-.02399	.03859	.03706	.03619
-.099	5.571	.03910	.03842	.03887	-.01741	-.00895	-.02443	.04204	.04000	.03955
	GRADIENT	-.00190	-.00180	-.00182	-.00012	-.00015	-.00002	-.00145	-.00173	-.00220

IA138 AMES 246-1-97 OTS POWER OFF (U3D027) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 220/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.685	-6.086	.03793	.03967	.03743	-.01838	-.01102	-.02677	.03892	.03842	.03619
3.717	-4.101	.05486	.05588	.05436	-.01839	-.01121	-.02642	.05715	.05512	.05410
3.666	-.177	.04106	.04152	.04084	-.01901	-.01167	-.02673	.04378	.04152	.04129
3.674	3.670	.03420	.03441	.03399	-.01933	-.01118	-.02709	.03695	.03462	.03483
3.705	5.645	.03879	.03856	.03879	-.02037	-.01196	-.02823	.04301	.03950	.04067
	GRADIENT	-.00266	-.00277	-.00262	-.00012	.00000	-.00009	-.00260	-.00264	-.00248

IA138 AMES 246-1-97 OTS POWER OFF (U3D028) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 181/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.326	-5.652	4.02056	3.97191	3.99137	-.11812	-.12581	-.12358	4.46823	4.02056	4.13734
-4.424	-3.636	-6.32113	-6.35669	-6.39224	-.11578	-.12031	-.11889	-7.33465	-6.55229	-6.58784
-4.563	.400	.54226	.53354	.54401	-.10720	-.11733	-.11598	.59984	.55099	.54924
-4.245	4.785	.82695	.79354	.80070	-.09364	-.09812	-.10570	.88183	.81741	.79116
-4.171	6.799	.59000	.55858	.54985	-.09422	-.09812	-.10512	.61793	.57428	.54810
	GRADIENT	.83766	.83783	.84282	.00264	.00266	.00158	.96271	.86354	.86455

RUN NO. 182/ 0 RN/L = 3.33 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.173	-5.279	.60881	.60349	.60704	-.09290	-.09888	-.09628	.66197	.60527	.60527
-.145	-3.302	.52133	.51955	.51777	-.09022	-.09103	-.08951	.57131	.52669	.54969
-.152	.663	.28991	.28567	.28708	-.08133	-.07934	-.08250	.31677	.29415	.30122
-.091	4.760	.40112	.39555	.40112	-.08182	-.08362	-.08902	.42008	.40447	.41005
-.078	6.751	.63865	.64038	.63693	-.08156	-.08235	-.08706	.67837	.64038	.63175
	GRADIENT	-.01468	-.01515	-.01423	.00104	.00091	.00005	-.01851	-.01493	-.01710

IA138 AMES 246-1-97 OTS POWER OFF (U3D028) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200 SRBPR = .000
SSMEPR = .000

RUN NO. 183/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.838	-5.693	.55109	.56063	.54973	-.08869	-.09328	-.10133	.58788	.55245	.54427
3.931	-3.714	.39561	.39561	.39372	-.08645	-.08587	-.09140	.43163	.39751	.39372
4.049	.489	.40247	.40470	.40358	-.08133	-.07440	-.08037	.44716	.40582	.40358
3.962	4.668	.31830	.32115	.32115	-.07894	-.07081	-.07637	.35064	.32305	.32020
3.928	6.697	.34317	.34128	.34128	-.06876	-.06462	-.06824	.36684	.34317	.34507
	GRADIENT	-.00921	-.00887	-.00865	.00090	.00180	.00179	-.00965	-.00887	-.00876

IA138 AMES 246-1-97 OTS POWER OFF (U3D029) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 192/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.018	-6.049	.05077	.04865	.05104	-.01212	-.01005	-.01785	.05581	.05183	.05369
-4.008	-4.094	.04823	.04823	.04945	-.01185	-.00982	-.01745	.05408	.05140	.05067
-3.929	-.194	.04347	.04347	.04499	-.01158	-.00999	-.01669	.04847	.04586	.04434
-3.928	3.668	.03921	.03858	.03921	-.01228	-.01057	-.01679	.04279	.04047	.03921
-3.945	5.662	.04087	.03952	.03997	-.01342	-.01165	-.01779	.04359	.04110	.03952
	GRADIENT	-.00116	-.00124	-.00132	-.00006	-.00010	.00009	-.00146	-.00141	-.00148

RUN NO. 191/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.146	-6.447	.05296	.05178	.05131	-.01303	-.01127	-.01934	.05013	.05272	.05461
-.152	-4.509	.05589	.05448	.05448	-.01302	-.01113	-.01972	.05495	.05542	.05870
-.135	-.477	.04616	.04503	.04571	-.01318	-.01113	-.01988	.04775	.04616	.04684
-.114	3.567	.04283	.04192	.04260	-.01395	-.01205	-.02003	.04508	.04350	.04283
-.098	5.575	.04550	.04456	.04550	-.01410	-.01251	-.02003	.04807	.04573	.04596
	GRADIENT	-.00162	-.00156	-.00147	-.00011	-.00011	-.00004	-.00122	-.00148	-.00196

IA138 AMES 246-1-97 OTS POWER OFF (U3D029) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 190/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.688	-6.087	.06502	.06590	.06444	-.01689	-.01615	-.02356	.06531	.06502	.06270
3.720	-4.102	.06159	.06269	.06131	-.01683	-.01595	-.02315	.06407	.06159	.05993
3.669	-.174	.05036	.05086	.04934	-.01710	-.01591	-.02334	.05269	.05010	.04909
3.675	3.674	.04567	.04542	.04567	-.01672	-.01523	-.02304	.04931	.04591	.04615
3.705	5.649	.04267	.04242	.04267	-.01768	-.01571	-.02368	.04673	.04343	.04470
	GRADIENT	-.00205	-.00222	-.00202	.00001	.00009	.00001	-.00190	-.00202	-.00177

IA138 AMES 246-1-97 OTS POWER OFF (U3D030) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 201/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.284	-6.392	-.15586	-.14914	-.15682	-.05914	-.08036	-.07619	-.17220	-.15778	-.16643
-4.387	-4.373	-.09833	-.09833	-.10541	-.06017	-.07598	-.07126	-.13233	-.11391	-.11250
-4.418	-.124	-.21237	-.21513	-.22341	-.06519	-.08295	-.08050	-.24687	-.23445	-.22617
-4.218	4.035	-.12051	-.11968	-.12217	-.04969	-.07137	-.06922	-.13550	-.12717	-.12051
-4.143	6.050	-.58229	-.57419	-.56608	-.05349	-.07137	-.07074	-.63497	-.59445	-.56203
	GRADIENT	-.00273	-.00263	-.00209	.00124	.00054	.00023	-.00047	-.00167	-.00105

RUN NO. 202/ 0 RN/L = 2.88 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.148	-6.442	-.19644	-.19067	-.19259	-.05043	-.06943	-.06669	-.18585	-.19451	-.20318
-.155	-4.504	-.16864	-.16531	-.16531	-.05576	-.07440	-.07302	-.16531	-.16615	-.17862
-.136	-.474	-.31550	-.31020	-.31373	-.05168	-.06230	-.06177	-.33318	-.31804	-.32080
-.115	3.562	-.22689	-.22551	-.22964	-.04570	-.05592	-.05952	-.24755	-.22964	-.23377
-.099	5.570	-.29899	-.29194	-.29370	-.04854	-.05865	-.06120	-.32017	-.30076	-.29723
	GRADIENT	-.00721	-.00746	-.00797	.00125	.00229	.00167	-.01019	-.00787	-.00683

IA138 AMES 246-1-97 OTS POWER OFF (U3D030) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500 SRBPR = .000
SSMEPR = .000

RUN NO. 203/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.883	-6.437	-.27087	-.27643	-.26809	-.05553	-.06870	-.07590	-.26948	-.26948	-.25697
3.980	-4.459	-.43359	-.44351	-.43111	-.04874	-.05647	-.06031	-.45841	-.43607	-.42862
4.100	-.254	-.68427	-.70044	-.68832	-.05288	-.05467	-.05734	-.74896	-.69236	-.66405
4.013	3.922	-.23102	-.22689	-.23102	-.04982	-.05008	-.05411	-.24340	-.23239	-.22964
3.980	5.947	-.36618	-.36864	-.37355	-.04786	-.05008	-.05361	-.41779	-.37601	-.39813
	GRADIENT	.02407	.02575	.02378	-.00013	.00076	.00074	.02554	.02420	.02365

IA138 AMES 246-1-97 OTS POWER ON (U3D031) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.262 SSMEPR = 372.504
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 35/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.131	-7.818	.00385	.00386	.00419	.01246	.01191	.01293	.00393	.00396	.00408
-4.125	-5.845	.00383	.00382	.00415	.01244	.01189	.01291	.00391	.00394	.00404
-4.110	-3.862	.00386	.00385	.00420	.01246	.01187	.01292	.00393	.00396	.00408
-4.025	.036	.00386	.00387	.00419	.01250	.01187	.01294	.00395	.00396	.00410
-4.026	3.902	.00385	.00385	.00419	.01246	.01185	.01291	.00393	.00396	.00406
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000

RUN NO. 36/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.293	-7.785	.00385	.00383	.00417	.01245	.01185	.01290	.00393	.00394	.00404
-.269	-5.815	.00384	.00384	.00417	.01244	.01184	.01289	.00393	.00395	.00406
-.253	-3.810	.00384	.00382	.00417	.01245	.01183	.01288	.00392	.00392	.00402
-.193	.148	.00384	.00384	.00419	.01246	.01179	.01289	.00393	.00395	.00404
-.193	4.252	.00384	.00384	.00418	.01243	.01182	.01290	.00393	.00393	.00403
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D031) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.262 SSMEPR = 372.504
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 37/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.631	-7.857	.00386	.00387	.00420	.01246	.01180	.01290	.00395	.00396	.00406
3.672	-5.874	.00385	.00385	.00420	.01248	.01182	.01293	.00394	.00394	.00404
3.677	-3.873	.00385	.00386	.00419	.01238	.01180	.01290	.00394	.00395	.00404
3.622	.054	.00386	.00384	.00420	.01241	.01181	.01290	.00394	.00394	.00405
3.631	3.904	.00385	.00385	.00419	.01247	.01182	.01289	.00393	.00395	.00406
	GRADIENT	.00000	-.00000	-.00000	.00001	.00000	-.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 38/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.084	-5.827	.00383	.00382	.00416	.01240	.01180	.01291	.00389	.00392	.00399
-4.071	-3.876	.00382	.00380	.00415	.01243	.01178	.01291	.00388	.00391	.00400
-3.988	.021	.00381	.00381	.00415	.01241	.01177	.01290	.00388	.00393	.00399
-3.984	3.885	.00383	.00381	.00415	.01242	.01180	.01289	.00389	.00394	.00399
-4.007	5.982	.00382	.00383	.00416	.01235	.01179	.01290	.00389	.00393	.00399
	GRADIENT	.00000	.00000	-.00000	-.00000	.00000	-.00000	.00000	.00000	-.00000

RUN NO. 39/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.221	-5.834	.00382	.00382	.00416	.01242	.01180	.01290	.00389	.00391	.00400
-.205	-3.826	.00383	.00382	.00416	.01243	.01179	.01292	.00389	.00393	.00401
-.155	.133	.00381	.00383	.00415	.01242	.01181	.01292	.00388	.00393	.00400
-.142	4.238	.00381	.00380	.00414	.01242	.01181	.01293	.00388	.00392	.00397
-.133	6.226	.00382	.00383	.00416	.01238	.01180	.01291	.00389	.00392	.00399
	GRADIENT	-.00000	-.00000	-.00000	-.00000	.00000	.00000	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D032) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRSPR = 274.259 SSMEPR = 481.799
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 1.600

RUN NO. 40/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.693	-5.874	.00382	.00381	.00416	.01241	.01181	.01291	.00389	.00393	.00398
3.721	-3.889	.00382	.00383	.00416	.01245	.01180	.01292	.00389	.00393	.00398
3.665	.041	.00383	.00382	.00416	.01245	.01182	.01291	.00390	.00394	.00399
3.671	3.888	.00383	.00383	.00416	.01245	.01180	.01291	.00390	.00394	.00401
3.702	5.867	.00383	.00382	.00415	.01244	.01181	.01290	.00388	.00391	.00399
	GRADIENT	.00000	.00000	.00000	.00000	.00000	-.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D033) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRSPR = 464.703 SSMEPR = 745.648
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 44/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.077	-5.339	.00374	.00373	.00406	.01225	.01186	.01274	.00379	.00385	.00389
-4.060	-3.357	.00375	.00375	.00409	.01224	.01186	.01274	.00380	.00387	.00390
-3.964	.543	.00375	.00372	.00407	.01225	.01186	.01276	.00379	.00384	.00387
-3.968	4.405	.00375	.00374	.00408	.01228	.01187	.01280	.00380	.00386	.00390
-3.988	6.400	.00371	.00370	.00404	.01231	.01183	.01281	.00376	.00382	.00385
	GRADIENT	.00000	-.00000	-.00000	.00001	.00000	.00001	-.00000	-.00000	-.00000

RUN NO. 45/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.175	-5.318	.00373	.00373	.00406	.01230	.01179	.01282	.00378	.00384	.00388
-.158	-3.307	.00375	.00374	.00407	.01232	.01180	.01284	.00379	.00385	.00387
-.150	.659	.00375	.00373	.00407	.01231	.01179	.01286	.00380	.00384	.00387
-.094	4.756	.00374	.00373	.00406	.01233	.01179	.01285	.00379	.00385	.00388
-.081	6.745	.00374	.00372	.00406	.01233	.01180	.01288	.00378	.00383	.00388
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	.00000	-.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D033) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.703 SSMEPR = 745.648
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 45/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.728	-5.371	.00375	.00372	.00407	.01238	.01182	.01289	.00379	.00385	.00388
3.733	-3.368	.00375	.00372	.00407	.01237	.01182	.01289	.00379	.00386	.00389
3.684	.562	.00376	.00373	.00407	.01237	.01183	.01290	.00379	.00384	.00387
3.683	4.406	.00376	.00374	.00406	.01239	.01183	.01290	.00379	.00385	.00389
3.713	6.386	.00381	.00379	.00413	.01240	.01184	.01291	.00385	.00392	.00397
	GRADIENT	.00000	.00000	-.00000	.00000	.00000	.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D034) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 750.050 SSMEPR = 1331.316
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 55/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.030	-8.056	.00376	.00375	.00408	.01251	.01202	.01312	.00380	.00385	.00392
-4.025	-6.084	.00374	.00373	.00406	.01253	.01202	.01314	.00379	.00385	.00391
-4.011	-4.103	.00374	.00374	.00406	.01250	.01201	.01311	.00379	.00383	.00392
-3.927	-.202	.00372	.00374	.00404	.01250	.01203	.01314	.00377	.00382	.00390
-3.926	3.663	.00373	.00373	.00406	.01252	.01204	.01316	.00379	.00383	.00389
-3.946	5.659	.00375	.00376	.00408	.01255	.01207	.01319	.00380	.00384	.00392
	GRADIENT	-.00000	-.00000	-.00000	.00000	.00000	.00001	-.00000	-.00000	-.00000

RUN NO. 54/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.129	-6.060	.00374	.00373	.00406	.01248	.01199	.01306	.00379	.00385	.00391
-.113	-4.051	.00374	.00373	.00406	.01249	.01201	.01309	.00379	.00383	.00390
-.105	-.080	.00374	.00375	.00406	.01250	.01202	.01308	.00379	.00383	.00391
-.049	4.016	.00374	.00375	.00406	.01252	.01203	.01309	.00379	.00383	.00390
-.036	6.006	.00374	.00375	.00407	.01251	.01201	.01311	.00379	.00384	.00392
	GRADIENT	-.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D034) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 750.050 SSMEPR = 1331.318
ELV-IB = 10.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 53/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.775	-4.111	.00381	.00381	.00415	.01244	.01195	.01296	.00386	.00391	.00398
3.727	-.182	.00375	.00375	.00407	.01248	.01197	.01302	.00380	.00386	.00392
3.734	3.664	.00376	.00375	.00408	.01249	.01198	.01302	.00380	.00386	.00391
3.763	5.642	.00375	.00376	.00408	.01245	.01198	.01304	.00381	.00385	.00393
	GRADIENT	-.00001	-.00001	-.00001	.00001	.00000	.00001	-.00001	-.00001	-.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D035) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.113 SSMEPR = 481.102
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 63/ 0 RN/L = 3.78 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.327	-6.181	.00379	.00377	.00411	.01272	.01206	.01324	.00387	.00389	.00397
-4.429	-4.164	.00380	.00379	.00412	.01271	.01206	.01323	.00388	.00390	.00397
-4.467	.093	.00379	.00379	.00411	.01273	.01205	.01324	.00387	.00387	.00397
-4.260	4.259	.00379	.00379	.00411	.01270	.01206	.01323	.00387	.00389	.00397
-4.183	6.273	.00379	.00379	.00412	.01273	.01206	.01323	.00387	.00389	.00399
	GRADIENT	-.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	-.00000	-.00000

RUN NO. 62/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.185	-5.799	.00377	.00376	.00410	.01273	.01208	.01320	.00386	.00387	.00396
-.159	-3.829	.00380	.00380	.00412	.01273	.01205	.01321	.00387	.00389	.00397
-.164	.136	.00379	.00379	.00412	.01269	.01204	.01320	.00387	.00389	.00397
-.104	4.238	.00378	.00377	.00411	.01267	.01204	.01323	.00386	.00387	.00397
-.090	6.227	.00378	.00378	.00411	.01268	.01207	.01320	.00386	.00387	.00395
	GRADIENT	-.00000	-.00000	-.00000	-.00001	-.00000	.00000	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D035) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.113 SSMEPR = 481.102
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 61/ 0 RN/L = 3.80 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.889	-6.218	.00379	.00379	.00412	.01272	.01213	.01315	.00388	.00389	.00387
3.983	-4.243	.00379	.00380	.00413	.01274	.01210	.01317	.00388	.00388	.00396
4.100	-.036	.00377	.00375	.00408	.01274	.01210	.01317	.00385	.00386	.00396
4.015	4.142	.00380	.00380	.00412	.01274	.01209	.01317	.00388	.00390	.00399
3.983	6.173	.00379	.00379	.00411	.01275	.01209	.01318	.00386	.00388	.00396
	GRADIENT	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D036) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.854 SSMEPR = 744.415
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 64/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.317	-5.659	.00372	.00370	.00403	.01266	.01203	.01323	.00377	.00381	.00387
-4.417	-3.638	.00376	.00375	.00407	.01266	.01204	.01322	.00381	.00384	.00390
-4.453	.615	.00374	.00374	.00406	.01269	.01201	.01320	.00380	.00383	.00390
-4.243	4.780	.00375	.00374	.00407	.01268	.01202	.01322	.00380	.00384	.00389
-4.168	6.796	.00374	.00374	.00406	.01271	.01205	.01323	.00380	.00384	.00390
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	.00000	-.00000	-.00000	-.00000

RUN NO. 65/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.188	-5.281	.00377	.00376	.00408	.01265	.01201	.01321	.00382	.00386	.00392
-.162	-3.307	.00376	.00374	.00407	.01271	.01205	.01323	.00381	.00385	.00390
-.149	.652	.00376	.00374	.00407	.01266	.01203	.01322	.00380	.00384	.00391
-.098	4.760	.00375	.00375	.00406	.01270	.01202	.01324	.00380	.00385	.00390
-.085	6.750	.00375	.00374	.00408	.01267	.01201	.01326	.00381	.00386	.00390
	GRADIENT	-.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000	.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D036) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.854 SSMEPR = 744.415
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 66/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.901	-5.694	.00376	.00374	.00408	.01270	.01206	.01325	.00381	.00384	.00390
3.995	-3.720	.00375	.00373	.00406	.01270	.01205	.01324	.00380	.00386	.00391
4.111	.486	.00378	.00376	.00409	.01270	.01205	.01323	.00383	.00386	.00393
4.020	4.664	.00377	.00376	.00408	.01268	.01207	.01321	.00382	.00385	.00393
3.988	6.696	.00375	.00374	.00406	.01273	.01204	.01323	.00380	.00384	.00391
	GRADIENT	.00000	.00000	.00000	-.00000	.00000	-.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D037) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 747.175 SSMEPR = 1328.316
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 75/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.018	-6.051	.00377	.00376	.00408	.01276	.01207	.01325	.00383	.00384	.00395
-4.008	-4.099	.00376	.00376	.00408	.01266	.01201	.01326	.00382	.00385	.00395
-3.928	-.199	.00376	.00377	.00409	.01275	.01207	.01325	.00383	.00384	.00393
-3.924	3.663	.00377	.00375	.00408	.01272	.01204	.01327	.00382	.00384	.00394
-3.946	5.659	.00376	.00375	.00408	.01275	.01206	.01329	.00382	.00386	.00395
	GRADIENT	.00000	-.00000	.00000	.00001	.00000	.00000	-.00000	-.00000	-.00000

RUN NO. 74/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.145	-6.448	.00374	.00374	.00407	.01274	.01203	.01312	.00381	.00383	.00393
-.152	-4.511	.00377	.00378	.00409	.01276	.01203	.01313	.00383	.00387	.00395
-.133	-.481	.00376	.00376	.00408	.01275	.01205	.01316	.00382	.00387	.00395
-.114	3.558	.00376	.00376	.00409	.01278	.01208	.01320	.00382	.00385	.00395
-.099	5.571	.00379	.00379	.00411	.01277	.01204	.01325	.00384	.00386	.00396
	GRADIENT	-.00000	-.00000	-.00000	.00000	.00001	.00001	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D037) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 747.175 SSMEPR = 1328.316
ELV-IB = 10.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 73/ 0 RN/L = 2.84 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.745	-6.091	.00376	.00376	.00409	.01256	.01200	.01311	.00383	.00386	.00396
3.776	-4.108	.00378	.00378	.00410	.01252	.01193	.01311	.00384	.00388	.00397
3.726	-.180	.00379	.00379	.00411	.01253	.01184	.01306	.00385	.00387	.00398
3.733	3.670	.00379	.00379	.00411	.01267	.01198	.01303	.00384	.00387	.00398
3.763	5.647	.00378	.00378	.00410	.01270	.01199	.01304	.00384	.00388	.00397
	GRADIENT	.00000	.00000	.00000	.00002	.00001	-.00001	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D038) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 195.714 SSMEPR = 372.069
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 82/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.132	-7.818	.00383	.00387	.00416	.01239	.01176	.01278	.00392	.00392	.00401
-4.127	-5.845	.00384	.00387	.00417	.01240	.01178	.01278	.00392	.00393	.00403
-4.112	-3.862	.00384	.00387	.00418	.01240	.01180	.01278	.00393	.00393	.00403
-4.032	.039	.00385	.00388	.00417	.01239	.01178	.01278	.00392	.00394	.00404
-4.025	3.905	.00384	.00389	.00417	.01238	.01180	.01277	.00392	.00394	.00402
	GRADIENT	.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000	-.00000

RUN NO. 81/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.315	-8.184	.00384	.00387	.00416	.01244	.01181	.01280	.00392	.00393	.00400
-.323	-6.257	.00383	.00387	.00416	.01244	.01183	.01279	.00391	.00392	.00401
-.314	-4.272	.00384	.00386	.00416	.01243	.01184	.01280	.00392	.00391	.00399
-.263	-.230	.00384	.00387	.00417	.01242	.01182	.01280	.00393	.00392	.00400
-.258	3.804	.00384	.00387	.00417	.01241	.01178	.01279	.00392	.00393	.00400
	GRADIENT	.00000	.00000	.00000	-.00000	-.00001	-.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D038) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 195.714 SSMEPR = 372.069
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 80/ 0 RN/L = 4.04 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.774	-8.200	.00384	.00387	.00416	.01248	.01202	.01284	.00391	.00391	.00402
3.855	-6.248	.00384	.00387	.00417	.01247	.01201	.01285	.00391	.00391	.00401
3.944	-4.227	.00383	.00385	.00415	.01247	.01200	.01284	.00391	.00391	.00401
4.062	-.021	.00383	.00387	.00415	.01247	.01198	.01285	.00390	.00392	.00400
3.976	4.159	.00384	.00386	.00416	.01246	.01196	.01281	.00390	.00391	.00399
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	-.00000	-.00000	.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D039) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.712 SSMEPR = 479.841
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 83/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.082	-5.833	.00380	.00384	.00413	.01233	.01179	.01273	.00387	.00390	.00398
-4.073	-3.878	.00380	.00383	.00413	.01233	.01177	.01273	.00386	.00389	.00398
-3.991	.023	.00380	.00383	.00413	.01232	.01178	.01273	.00387	.00390	.00397
-3.986	3.889	.00381	.00383	.00413	.01234	.01178	.01274	.00386	.00388	.00397
-4.005	5.883	.00381	.00385	.00413	.01233	.01176	.01273	.00387	.00390	.00399
	GRADIENT	.00000	-.00000	.00000	.00000	.00000	.00000	.00000	-.00000	-.00000

RUN NO. 84/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.210	-6.222	.00381	.00384	.00413	.01236	.01179	.01273	.00387	.00391	.00398
-.216	-4.283	.00382	.00386	.00414	.01233	.01178	.01272	.00388	.00390	.00397
-.193	-.251	.00381	.00385	.00414	.01232	.01176	.01272	.00387	.00390	.00398
-.173	3.791	.00380	.00385	.00413	.01235	.01178	.01274	.00387	.00389	.00398
-.156	5.800	.00381	.00383	.00414	.01233	.01177	.01273	.00387	.00391	.00399
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D039) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.712 SSMEPR = 479.841
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 85/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.686	-5.873	.00381	.00385	.00413	.01234	.01177	.01272	.00387	.00390	.00396
3.718	-3.887	.00382	.00385	.00414	.01236	.01177	.01271	.00388	.00391	.00399
3.671	.041	.00382	.00386	.00414	.01235	.01177	.01271	.00388	.00392	.00396
3.675	3.894	.00382	.00384	.00414	.01234	.01176	.01271	.00388	.00391	.00397
3.704	5.870	.00382	.00384	.00414	.01235	.01176	.01270	.00388	.00390	.00397
	GRADIENT	-.00000	-.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D040) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 463.681 SSMEPR = 738.664
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 94/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.070	-5.310	.00377	.00382	.00410	.01220	.01173	.01267	.00382	.00388	.00393
-4.058	-3.358	.00368	.00372	.00399	.01219	.01170	.01267	.00373	.00377	.00384
-3.975	.539	.00377	.00380	.00409	.01220	.01174	.01268	.00381	.00386	.00390
-3.962	4.402	.00368	.00372	.00400	.01221	.01174	.01270	.00375	.00378	.00383
-3.983	6.394	.00368	.00371	.00399	.01221	.01175	.01270	.00373	.00377	.00383
	GRADIENT	.00000	.00000	.00000	.00000	.00001	.00000	.00000	.00000	-.00000

RUN NO. 93/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.162	-5.314	.00375	.00379	.00409	.01221	.01174	.01261	.00382	.00385	.00392
-.148	-3.303	.00377	.00382	.00411	.01219	.01174	.01262	.00383	.00387	.00392
-.153	.656	.00380	.00384	.00412	.01221	.01173	.01264	.00385	.00390	.00395
-.088	4.750	.00371	.00374	.00403	.01221	.01172	.01265	.00377	.00382	.00385
-.074	6.735	.00371	.00376	.00403	.01223	.01175	.01268	.00377	.00382	.00386
	GRADIENT	-.00001	-.00001	-.00001	.00000	-.00000	.00000	-.00001	-.00001	-.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D040) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 463.681 SSMEPR = 738.664
ELV-IB = 10.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 92/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.705	-5.352	.00369	.00373	.00402	.01218	.01176	.01257	.00374	.00380	.00384
3.734	-3.368	.00372	.00377	.00405	.01218	.01177	.01257	.00377	.00381	.00386
3.680	.559	.00369	.00372	.00401	.01219	.01177	.01258	.00373	.00378	.00382
3.683	4.405	.00367	.00372	.00399	.01218	.01176	.01257	.00373	.00378	.00381
3.709	6.375	.00375	.00380	.00407	.01218	.01173	.01258	.00381	.00385	.00391
	GRADIENT	-.00001	-.00001	-.00001	.00000	-.00000	.00000	-.00001	-.00000	-.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D041) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 749.014 SSMEPR = 1316.871
ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 224/ 0 RN/L = 2.93 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.203	-6.392	.00373	.00372	.00405	.01275	.01217	.01315	.00378	.00380	.00384
-4.390	-4.373	.00374	.00373	.00406	.01279	.01215	.01318	.00379	.00380	.00387
-4.427	-.124	.00373	.00372	.00405	.01282	.01220	.01321	.00378	.00380	.00387
-4.220	4.036	.00374	.00373	.00407	.01280	.01220	.01320	.00379	.00381	.00388
-4.147	6.050	.00374	.00373	.00406	.01283	.01212	.01323	.00378	.00379	.00387
	GRADIENT	.00000	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000

RUN NO. 225/ 0 RN/L = 2.91 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.147	-6.451	.00371	.00371	.00406	.01282	.01215	.01323	.00376	.00379	.00386
-.156	-4.508	.00376	.00375	.00407	.01281	.01222	.01322	.00380	.00383	.00388
-.136	-.477	.00376	.00376	.00408	.01283	.01219	.01324	.00381	.00384	.00388
-.116	3.566	.00376	.00376	.00408	.01283	.01223	.01326	.00381	.00384	.00389
-.100	5.574	.00376	.00377	.00409	.01284	.01219	.01325	.00381	.00384	.00389
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D041) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 749.014 SSMEPR = 1316.871
ELV-IB = 10.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 226/ 0 RN/L = 2.89 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.883	-6.442	.00376	.00377	.00408	.01284	.01219	.01328	.00381	.00384	.00389
3.982	-4.463	.00377	.00376	.00409	.01283	.01222	.01327	.00381	.00384	.00389
4.103	-.255	.00377	.00377	.00408	.01283	.01223	.01328	.00380	.00384	.00387
4.014	3.925	.00378	.00377	.00409	.01283	.01219	.01329	.00382	.00384	.00390
3.981	5.953	.00378	.00378	.00408	.01284	.01223	.01329	.00382	.00385	.00388
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D042) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.334 SSMEPR = 371.871
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 96/ 0 RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.134	-7.808	.00379	.00383	.00413	.01278	.01203	.01322	.00388	.00387	.00399
-4.128	-5.843	.00380	.00386	.00416	.01279	.01203	.01323	.00389	.00390	.00401
-4.114	-3.858	.00380	.00385	.00415	.01280	.01204	.01324	.00389	.00389	.00400
-4.030	.042	.00379	.00385	.00415	.01281	.01206	.01324	.00388	.00389	.00401
-4.029	3.901	.00379	.00385	.00416	.01279	.01205	.01324	.00389	.00390	.00399
-4.043	5.900	.00379	.00384	.00416	.01280	.01206	.01323	.00388	.00390	.00400
	GRADIENT	-.00000	.00000	.00000	-.00000	.00000	-.00000	-.00000	.00000	-.00000

RUN NO. 97/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.260	-8.170	.00379	.00385	.00417	.01279	.01205	.01322	.00389	.00390	.00400
-.268	-6.245	.00381	.00386	.00417	.01279	.01204	.01322	.00389	.00390	.00400
-.257	-4.262	.00381	.00386	.00417	.01279	.01203	.01325	.00389	.00389	.00402
-.240	-.230	.00379	.00384	.00413	.01279	.01201	.01325	.00387	.00388	.00396
-.211	3.803	.00379	.00383	.00415	.01276	.01201	.01320	.00387	.00387	.00399
-.195	5.815	.00382	.00386	.00419	.01277	.01202	.01321	.00390	.00391	.00400
	GRADIENT	-.00000	-.00000	-.00000	-.00000	-.00000	-.00001	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D042) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.334 SSMEPR = 371.871
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 98/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.769	-8.187	.00382	.00386	.00419	.01275	.01203	.01319	.00391	.00392	.00403
3.851	-6.243	.00384	.00387	.00419	.01276	.01202	.01321	.00392	.00391	.00403
3.941	-4.225	.00383	.00389	.00419	.01274	.01202	.01320	.00391	.00393	.00402
4.057	-.019	.00383	.00388	.00421	.01275	.01200	.01319	.00393	.00393	.00405
3.969	4.158	.00383	.00388	.00421	.01276	.01203	.01317	.00391	.00392	.00402
3.938	6.188	.00385	.00389	.00423	.01277	.01197	.01317	.00394	.00395	.00405
	GRADIENT	.00000	-.00000	.00000	.00000	.00000	-.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D043) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.808 SSMEPR = 475.914
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 107/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.273	-8.171	.00376	.00380	.00414	.01236	.01168	.01286	.00383	.00385	.00394
-4.365	-6.202	.00378	.00383	.00414	.01236	.01166	.01285	.00384	.00387	.00395
-4.428	-4.157	.00377	.00382	.00413	.01236	.01169	.01287	.00383	.00385	.00394
-4.465	.096	.00376	.00381	.00413	.01237	.01169	.01288	.00383	.00386	.00395
-4.256	4.258	.00379	.00383	.00414	.01239	.01168	.01288	.00384	.00389	.00397
-4.183	6.271	.00377	.00382	.00412	.01238	.01169	.01287	.00383	.00387	.00394
	GRADIENT	.00000	.00000	.00000	.00000	-.00000	.00000	.00000	.00000	.00000

RUN NO. 106/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.204	-7.795	.00375	.00379	.00413	.01236	.01172	.01284	.00383	.00386	.00395
-.177	-5.828	.00378	.00381	.00415	.01236	.01172	.01283	.00385	.00388	.00396
-.161	-3.822	.00376	.00380	.00413	.01237	.01173	.01285	.00383	.00387	.00395
-.164	.137	.00375	.00382	.00414	.01238	.01172	.01285	.00383	.00384	.00395
-.106	4.236	.00375	.00380	.00413	.01239	.01173	.01287	.00382	.00384	.00392
-.093	6.225	.00376	.00382	.00414	.01237	.01173	.01286	.00383	.00386	.00393
	GRADIENT	-.00000	-.00000	-.00000	.00000	.00000	.00000	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D043) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.808 SSMEPR = 475.914
ELV-IB = 12.000 ELV-OB = -2.000
MACH = 1.800

RUN NO. 105/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.810	-8.207	.00374	.00378	.00415	.01230	.01183	.01271	.00382	.00384	.00395
3.890	-6.256	.00391	.00392	.00430	.01234	.01179	.01278	.00388	.00415	.00432
3.980	-4.238	.00368	.00373	.00408	.01236	.01178	.01280	.00375	.00379	.00386
4.097	-.035	.00376	.00379	.00416	.01236	.01175	.01280	.00382	.00384	.00395
4.010	4.140	.00374	.00379	.00412	.01236	.01174	.01281	.00380	.00384	.00391
3.980	6.171	.00373	.00378	.00412	.01237	.01174	.01281	.00380	.00383	.00391
	GRADIENT	.00001	.00001	.00001	-.00000	-.00001	.00000	.00001	.00001	.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D044) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.742 SSMEPR = 477.942
ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 148/ 0 RN/L = 3.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.332	-6.169	.00375	.00377	.00408	.01294	.01215	.01335	.00381	.00381	.00386
-4.431	-4.149	.00377	.00378	.00409	.01294	.01215	.01336	.00381	.00383	.00387
-4.466	.099	.00377	.00377	.00409	.01293	.01217	.01333	.00382	.00385	.00386
-4.257	4.260	.00377	.00376	.00409	.01294	.01217	.01335	.00381	.00384	.00387
-4.184	6.272	.00377	.00377	.00409	.01295	.01216	.01334	.00382	.00383	.00387
	GRADIENT	-.00000	-.00000	.00000	-.00000	.00000	-.00000	.00000	.00000	-.00000

RUN NO. 149/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.208	-6.225	.00377	.00376	.00409	.01295	.01215	.01335	.00382	.00382	.00385
-.217	-4.285	.00379	.00378	.00410	.01292	.01219	.01337	.00383	.00386	.00389
-.196	-.254	.00385	.00386	.00418	.01296	.01218	.01338	.00391	.00391	.00395
-.176	3.783	.00379	.00379	.00412	.01296	.01222	.01338	.00384	.00384	.00389
-.160	5.796	.00380	.00380	.00411	.01298	.01220	.01340	.00384	.00384	.00389
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D044) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.742 SSMEPR = 477.942
ELV-IB = 12.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 150/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.823	-6.216	.00379	.00380	.00411	.01294	.01222	.01339	.00384	.00385	.00389
3.923	-4.240	.00380	.00380	.00413	.01292	.01222	.01340	.00385	.00384	.00390
4.042	-.033	.00381	.00379	.00412	.01291	.01219	.01339	.00385	.00387	.00389
3.953	4.147	.00381	.00382	.00412	.01291	.01221	.01339	.00385	.00387	.00391
3.918	6.175	.00381	.00380	.00413	.01290	.01219	.01338	.00385	.00387	.00390
	GRADIENT	.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D045) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.380 SSMEPR = 370.730
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 133/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.134	-7.816	.00379	.00379	.00410	.01262	.01203	.01294	.00389	.00386	.00399
-4.127	-5.842	.00381	.00381	.00412	.01261	.01200	.01289	.00390	.00389	.00400
-4.113	-3.859	.00382	.00381	.00412	.01262	.01205	.01293	.00390	.00390	.00401
-4.029	.042	.00382	.00383	.00412	.01263	.01204	.01292	.00390	.00388	.00401
-4.025	3.906	.00382	.00381	.00412	.01261	.01204	.01292	.00390	.00388	.00400
-4.044	5.897	.00380	.00382	.00412	.01259	.01204	.01293	.00390	.00389	.00400
	GRADIENT	-.00000	-.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	-.00000

RUN NO. 132/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.249	-7.809	.00381	.00380	.00411	.01261	.01208	.01295	.00389	.00388	.00398
-.230	-5.813	.00380	.00380	.00411	.01258	.01206	.01294	.00389	.00388	.00397
-.214	-3.806	.00380	.00379	.00411	.01262	.01205	.01296	.00389	.00388	.00399
-.201	.157	.00379	.00381	.00411	.01261	.01203	.01296	.00389	.00388	.00399
-.151	4.255	.00380	.00380	.00411	.01261	.01205	.01294	.00389	.00387	.00400
-.136	6.244	.00381	.00379	.00411	.01260	.01205	.01296	.00389	.00387	.00397
	GRADIENT	-.00000	.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D045) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.380 SSMEPR = 370.730
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 131/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.628	-7.851	.00380	.00381	.00411	.01261	.01211	.01295	.00390	.00386	.00398
3.672	-5.871	.00380	.00381	.00411	.01260	.01216	.01294	.00389	.00387	.00397
3.677	-3.868	.00380	.00381	.00410	.01258	.01214	.01294	.00389	.00387	.00397
3.629	.063	.00380	.00380	.00411	.01256	.01209	.01293	.00389	.00389	.00397
3.629	3.908	.00381	.00381	.00411	.01259	.01207	.01294	.00389	.00389	.00397
3.659	5.884	.00380	.00380	.00412	.01259	.01210	.01294	.00390	.00389	.00398
	GRADIENT	.00000	.00000	.00000	.00000	-.00001	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D046) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.464 SSMEPR = 476.752
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 134/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.082	-5.828	.00379	.00379	.00409	.01257	.01203	.01290	.00386	.00386	.00396
-4.074	-3.875	.00379	.00380	.00409	.01257	.01201	.01290	.00386	.00386	.00394
-3.992	.026	.00379	.00379	.00409	.01258	.01199	.01290	.00386	.00386	.00395
-3.984	3.891	.00378	.00380	.00410	.01256	.01199	.01289	.00386	.00388	.00395
-4.006	5.882	.00378	.00380	.00410	.01257	.01202	.01290	.00386	.00388	.00396
	GRADIENT	-.00000	-.00000	.00000	-.00000	-.00000	-.00000	.00000	.00000	.00000

RUN NO. 135/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.186	-5.797	.00378	.00380	.00409	.01254	.01198	.01288	.00386	.00386	.00396
-.161	-3.821	.00380	.00380	.00410	.01249	.01196	.01286	.00387	.00388	.00395
-.163	.140	.00380	.00379	.00411	.01253	.01198	.01288	.00387	.00387	.00396
-.104	4.241	.00379	.00379	.00410	.01255	.01197	.01290	.00387	.00386	.00395
-.090	6.227	.00380	.00380	.00410	.01254	.01197	.01290	.00387	.00387	.00395
	GRADIENT	-.00000	-.00000	-.00000	.00001	.00000	.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D046) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 274.464 SSMEPR = 476.752
ELV-IB = 12.000 ELV-OB = -7.000
MACH = 1.800

RUN NO. 136/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.682	-5.866	.00378	.00379	.00409	.01252	.01199	.01289	.00385	.00387	.00394
3.716	-3.884	.00379	.00381	.00410	.01252	.01200	.01289	.00387	.00388	.00397
3.666	.044	.00380	.00381	.00411	.01251	.01199	.01288	.00387	.00388	.00397
3.668	3.895	.00381	.00381	.00411	.01252	.01194	.01288	.00387	.00387	.00397
3.698	5.869	.00379	.00381	.00411	.01252	.01193	.01288	.00387	.00387	.00396
	GRADIENT	.00000	.00000	.00000	-.00000	-.00001	-.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D047) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.379 SSMEPR = 372.181
ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 177/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.134	-7.812	.00385	.00384	.00420	.01267	.01214	.01312	.00394	.00393	.00400
-4.128	-5.840	.00383	.00383	.00415	.01268	.01213	.01313	.00391	.00390	.00397
-4.112	-3.857	.00383	.00383	.00415	.01271	.01213	.01314	.00391	.00389	.00396
-4.032	.042	.00384	.00383	.00416	.01270	.01214	.01314	.00392	.00391	.00396
-4.023	3.904	.00384	.00384	.00415	.01272	.01208	.01314	.00392	.00390	.00397
	GRADIENT	.00000	.00000	.00000	.00000	-.00001	.00000	.00000	.00000	.00000

RUN NO. 178/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.260	-8.171	.00383	.00383	.00415	.01269	.01212	.01313	.00392	.00389	.00395
-.267	-6.245	.00384	.00383	.00415	.01266	.01210	.01313	.00392	.00390	.00397
-.256	-4.261	.00384	.00384	.00416	.01271	.01214	.01310	.00392	.00392	.00398
-.237	-.230	.00385	.00384	.00417	.01273	.01209	.01314	.00393	.00392	.00398
-.212	3.807	.00385	.00386	.00416	.01270	.01210	.01312	.00392	.00391	.00398
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D047) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.379 SSMEPR = 372.181
ELV-IB = 8.000 ELV-OB = -2.000
MACH = 1.550

RUN NO. 179/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.570	-7.851	.00384	.00383	.00415	.01266	.01210	.01309	.00392	.00390	.00395
3.613	-5.867	.00385	.00384	.00416	.01270	.01210	.01311	.00392	.00391	.00398
3.617	-3.865	.00385	.00384	.00417	.01266	.01209	.01312	.00393	.00392	.00399
3.567	.059	.00385	.00385	.00417	.01264	.01210	.01312	.00393	.00391	.00397
3.575	3.907	.00385	.00385	.00417	.01265	.01209	.01313	.00393	.00392	.00398
	GRADIENT	-.00000	.00000	.00000	-.00000	.00000	.00000	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D048) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.146 SSMEPR = 1637.358
ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 147/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.146	-7.787	.00381	.00383	.00415	.01263	.01202	.01299	.00390	.00390	.00399
-4.139	-5.830	.00382	.00383	.00415	.01262	.01198	.01296	.00390	.00389	.00398
-4.124	-3.852	.00382	.00384	.00415	.01261	.01201	.01296	.00391	.00389	.00399
-4.036	.041	.00382	.00383	.00415	.01264	.01201	.01298	.00391	.00390	.00400
-4.032	3.895	.00382	.00384	.00415	.01262	.01201	.01299	.00391	.00388	.00400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

RUN NO. 146/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.288	-7.756	.00380	.00382	.00413	.01261	.01203	.01299	.00389	.00389	.00398
-.261	-5.800	.00380	.00381	.00413	.01257	.01202	.01298	.00390	.00389	.00398
-.244	-3.799	.00382	.00384	.00415	.01262	.01204	.01301	.00391	.00390	.00399
-.196	.154	.00382	.00383	.00416	.01262	.01202	.01299	.00391	.00390	.00398
-.182	4.242	.00383	.00386	.00416	.01261	.01200	.01297	.00391	.00389	.00400
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D048) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 196.146 SSMEPR = 1637.358
ELV-IB = 8.000 ELV-OB = -7.000
MACH = 1.550

RUN NO. 145/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.571	-7.824	.00380	.00383	.00412	.01261	.01212	.01298	.00388	.00388	.00397
3.616	-5.855	.00380	.00382	.00413	.01258	.01208	.01298	.00389	.00387	.00397
3.620	-3.859	.00380	.00381	.00413	.01259	.01207	.01299	.00389	.00388	.00398
3.571	.059	.00380	.00382	.00413	.01260	.01207	.01300	.00389	.00388	.00398
3.575	3.894	.00382	.00382	.00414	.01260	.01205	.01299	.00389	.00388	.00396
	GRADIENT	.00000	.00000	.00000	.00000	-.00000	.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 126/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.072	-5.304	.00371	.00371	.00401	.01286	.01212	.01338	.00376	.00380	.00384
-4.061	-3.354	.00372	.00372	.00401	.01287	.01207	.01337	.00376	.00380	.00384
-3.980	.545	.00371	.00373	.00401	.01287	.01209	.01339	.00376	.00380	.00386
-3.968	4.411	.00372	.00371	.00401	.01290	.01212	.01339	.00376	.00382	.00386
-3.988	6.402	.00372	.00371	.00401	.01292	.01211	.01340	.00377	.00382	.00385
	GRADIENT	-.00000	-.00000	.00000	.00000	.00001	.00000	-.00000	.00000	.00000

RUN NO. 125/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.174	-5.277	.00371	.00372	.00401	.01286	.01209	.01336	.00376	.00381	.00385
-.149	-3.299	.00372	.00372	.00401	.01284	.01207	.01335	.00376	.00381	.00386
-.151	.660	.00371	.00371	.00401	.01284	.01208	.01334	.00376	.00379	.00385
-.092	4.757	.00372	.00374	.00402	.01287	.01212	.01336	.00376	.00379	.00384
-.078	6.746	.00371	.00372	.00401	.01284	.01208	.01336	.00375	.00381	.00385
	GRADIENT	.00000	.00000	.00000	.00000	.00001	.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D049) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.958 SSMEPR = 736.992
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 124/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.697	-5.340	.00371	.00371	.00402	.01285	.01209	.01331	.00376	.00379	.00385
3.728	-3.360	.00372	.00373	.00402	.01287	.01208	.01332	.00376	.00382	.00386
3.672	.565	.00372	.00372	.00402	.01287	.01210	.01332	.00376	.00381	.00385
3.677	4.416	.00372	.00372	.00402	.01285	.01206	.01332	.00377	.00380	.00385
3.705	6.387	.00373	.00372	.00402	.01285	.01206	.01332	.00376	.00381	.00385
	GRADIENT	-.00000	-.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D050) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.805 SSMEPR = 1326.922
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 115/ 0 RN/L = 2.90 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.020	-6.045	.00372	.00373	.00404	.01279	.01153	.01322	.00375	.00378	.00387
-4.011	-4.096	.00368	.00367	.00398	.01279	.01193	.01324	.00374	.00376	.00384
-3.932	-.198	.00381	.00383	.00413	.01281	.01195	.01325	.00389	.00391	.00400
-3.924	3.667	.00375	.00376	.00406	.01280	.01197	.01327	.00383	.00384	.00391
-3.944	5.659	.00378	.00379	.00408	.01282	.01197	.01327	.00384	.00386	.00394
	GRADIENT	.00001	.00001	.00001	.00000	.00000	.00000	.00001	.00001	.00001

RUN NO. 116/ 0 RN/L = 2.86 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.126	-6.019	.00371	.00372	.00402	.01279	.01193	.01327	.00377	.00380	.00387
-.102	-4.042	.00375	.00375	.00406	.01278	.01197	.01325	.00381	.00383	.00392
-.104	-.082	.00376	.00376	.00407	.01280	.01197	.01329	.00382	.00383	.00393
-.045	4.016	.00372	.00371	.00402	.01282	.01190	.01329	.00378	.00380	.00387
-.032	6.000	.00379	.00382	.00412	.01285	.01198	.01335	.00386	.00389	.00398
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00001	.00001	-.00000	-.00000	-.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D050) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.805 SSMEPR = 1326.922
ELV-IB = 4.000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 117/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.742	-6.087	.00376	.00378	.00407	.01286	.01193	.01335	.00382	.00385	.00394
3.775	-4.106	.00375	.00375	.00406	.01285	.01195	.01333	.00382	.00383	.00393
3.726	-.178	.00375	.00375	.00406	.01285	.01199	.01331	.00381	.00384	.00392
3.729	3.672	.00375	.00375	.00406	.01285	.01199	.01332	.00381	.00382	.00392
3.758	5.642	.00375	.00375	.00407	.01286	.01198	.01334	.00381	.00384	.00391
	GRADIENT	.00000	-.00000	.00000	-.00000	.00001	-.00000	-.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D051) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.294 SSMEPR = 477.177
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 155/ 0 RN/L = 3.79 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.328	-6.178	.00378	.00380	.00411	.01284	.01228	.01323	.00384	.00385	.00387
-4.431	-4.157	.00379	.00378	.00411	.01282	.01229	.01323	.00384	.00384	.00389
-4.470	.097	.00378	.00380	.00411	.01284	.01229	.01323	.00384	.00385	.00388
-4.261	4.262	.00378	.00378	.00411	.01285	.01226	.01324	.00384	.00384	.00387
-4.185	6.274	.00378	.00379	.00411	.01286	.01228	.01323	.00384	.00386	.00387
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	.00000	.00000	-.00000	-.00000

RUN NO. 156/ 0 RN/L = 3.77 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.208	-6.226	.00378	.00378	.00411	.01285	.01225	.01322	.00384	.00385	.00387
-.216	-4.285	.00376	.00376	.00408	.01284	.01226	.01323	.00381	.00383	.00386
-.200	-.252	.00379	.00379	.00411	.01286	.01226	.01325	.00384	.00384	.00389
-.175	3.785	.00380	.00382	.00414	.01287	.01227	.01326	.00386	.00387	.00391
-.160	5.796	.00379	.00380	.00411	.01286	.01226	.01325	.00385	.00387	.00391
	GRADIENT	.00001	.00001	.00001	.00000	.00000	.00000	.00001	.00001	.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D051) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 273.294 SSMEPR = 477.177
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.800

RUN NO. 157/ 0 RN/L = 3.76 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.833	-6.216	.00377	.00377	.00411	.01285	.01227	.01325	.00384	.00385	.00389
3.928	-4.242	.00381	.00382	.00414	.01285	.01228	.01327	.00386	.00387	.00391
4.043	-.032	.00379	.00379	.00412	.01283	.01227	.01326	.00385	.00387	.00390
3.954	4.148	.00381	.00383	.00414	.01283	.01225	.01325	.00386	.00386	.00392
3.920	6.179	.00380	.00380	.00413	.01283	.01226	.01325	.00385	.00387	.00389
	GRADIENT	-.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.163 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 166/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.079	-5.302	.00374	.00372	.00405	.01275	.01220	.01320	.00377	.00380	.00382
-4.065	-3.352	.00375	.00375	.00406	.01277	.01222	.01322	.00377	.00381	.00382
-3.981	.548	.00374	.00373	.00405	.01277	.01222	.01322	.00377	.00382	.00383
-3.972	4.414	.00374	.00374	.00406	.01277	.01222	.01321	.00377	.00381	.00381
-3.989	6.405	.00374	.00373	.00406	.01279	.01221	.01322	.00377	.00382	.00380
	GRADIENT	-.00000	-.00000	-.00000	.00000	.00000	-.00000	-.00000	-.00000	-.00000

RUN NO. 165/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.174	-5.277	.00374	.00373	.00406	.01272	.01224	.01317	.00377	.00382	.00383
-.148	-3.303	.00374	.00375	.00406	.01273	.01223	.01318	.00377	.00380	.00381
-.151	.661	.00374	.00375	.00406	.01273	.01223	.01318	.00378	.00382	.00382
-.093	4.761	.00374	.00373	.00406	.01274	.01220	.01318	.00377	.00381	.00382
-.080	6.750	.00373	.00374	.00406	.01275	.01220	.01320	.00377	.00382	.00381
	GRADIENT	.00000	-.00000	.00000	.00000	-.00000	.00000	-.00000	.00000	.00000

IA138 AMES 246-I-97 OTS POWER ON (U3D052) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 464.163 SSMEPR = 739.259
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 164/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.839	-5.693	.00373	.00371	.00404	.01266	.01224	.01308	.00375	.00380	.00380
3.934	-3.718	.00374	.00375	.00406	.01266	.01225	.01310	.00377	.00381	.00380
4.052	.486	.00380	.00379	.00413	.01268	.01225	.01311	.00383	.00387	.00387
3.962	4.666	.00378	.00377	.00411	.01268	.01224	.01312	.00381	.00385	.00387
3.928	6.696	.00375	.00374	.00407	.01269	.01224	.01314	.00377	.00382	.00381
	GRADIENT	.00001	.00000	.00001	.00000	-.00000	.00000	.00001	.00001	.00001

IA138 AMES 246-I-97 OTS POWER ON (U3D053) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 752.323 SSMEPR = 1319.085
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 167/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.271	-6.391	.00376	.00377	.00410	.01276	.01223	.01321	.00382	.00384	.00389
-4.372	-4.373	.00378	.00379	.00410	.01277	.01222	.01321	.00382	.00384	.00389
-4.406	-.125	.00377	.00377	.00410	.01276	.01221	.01321	.00382	.00385	.00389
-4.199	4.037	.00377	.00378	.00410	.01276	.01221	.01322	.00382	.00383	.00389
-4.127	6.050	.00377	.00378	.00410	.01277	.01222	.01324	.00382	.00384	.00388
	GRADIENT	-.00000	-.00000	.00000	-.00000	-.00000	.00000	-.00000	-.00000	.00000

RUN NO. 168/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.128	-6.024	.00378	.00377	.00410	.01275	.01222	.01323	.00382	.00383	.00388
-.101	-4.044	.00377	.00377	.00409	.01275	.01222	.01324	.00382	.00385	.00387
-.105	-.080	.00377	.00379	.00410	.01278	.01223	.01325	.00382	.00385	.00388
-.044	4.017	.00377	.00377	.00410	.01278	.01224	.01325	.00382	.00383	.00388
-.031	6.006	.00378	.00379	.00410	.01279	.01224	.01326	.00382	.00384	.00387
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D053) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 752.323 SSMEPR = 1319.085
ELV-IB = 4.000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 169/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.688	-6.090	.00377	.00379	.00410	.01276	.01224	.01326	.00381	.00382	.00386
3.719	-4.106	.00376	.00379	.00410	.01276	.01224	.01325	.00382	.00385	.00388
3.667	-.178	.00377	.00378	.00409	.01277	.01224	.01325	.00381	.00384	.00388
3.673	3.671	.00377	.00377	.00410	.01277	.01224	.01325	.00382	.00384	.00388
3.703	5.645	.00378	.00378	.00410	.01277	.01227	.01327	.00381	.00385	.00386
	GRADIENT	.00000	-.00000	.00000	.00000	-.00000	.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D054) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.607 SSMEPR = 735.810
ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 194/ 0 RN/L = 3.36 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.340	-5.660	.00370	.00368	.00401	.01280	.01216	.01322	.00373	.00376	.00380
-4.442	-3.634	.00369	.00370	.00400	.01274	.01224	.01316	.00372	.00376	.00379
-4.474	.620	.00370	.00369	.00401	.01276	.01224	.01316	.00373	.00376	.00378
-4.265	4.785	.00369	.00368	.00401	.01278	.01224	.01320	.00373	.00377	.00380
-4.188	6.795	.00370	.00368	.00402	.01280	.01223	.01321	.00374	.00377	.00380
	GRADIENT	.00000	-.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 195/ 0 RN/L = 3.32 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.208	-5.758	.00371	.00369	.00402	.01280	.01216	.01324	.00374	.00377	.00381
-.199	-3.769	.00372	.00370	.00402	.01280	.01218	.01324	.00375	.00378	.00382
-.186	.269	.00371	.00369	.00402	.01282	.01221	.01325	.00374	.00379	.00382
-.159	4.306	.00371	.00370	.00402	.01283	.01222	.01326	.00374	.00379	.00379
-.143	6.317	.00371	.00369	.00402	.01282	.01219	.01326	.00374	.00377	.00381
	GRADIENT	-.00000	.00000	.00000	.00000	.00001	.00000	-.00000	.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D054) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.607 SSMEPR = 735.810
ELV-IB = 4.000 ELV-OB = -7.000
MACH = 2.200

RUN NO. 196/ 0 RN/L = 3.30 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.647	-5.348	.00371	.00369	.00402	.01283	.01223	.01328	.00374	.00379	.00381
3.677	-3.363	.00372	.00370	.00403	.01283	.01223	.01329	.00375	.00379	.00380
3.625	.565	.00373	.00371	.00403	.01283	.01221	.01329	.00376	.00379	.00382
3.630	4.415	.00374	.00373	.00403	.01283	.01220	.01328	.00375	.00381	.00381
3.658	6.391	.00372	.00369	.00402	.01282	.01223	.01330	.00374	.00379	.00381
	GRADIENT	.00000	.00000	-.00000	-.00000	-.00000	-.00000	-.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D055) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 743.821 SSMEPR = 1312.481
ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 113/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.012	-6.043	.00370	.00370	.00402	.01276	.00927	.01327	.00376	.00379	.00385
-4.004	-4.093	.00371	.00372	.00402	.01279	.00916	.01328	.00376	.00379	.00388
-3.925	-.200	.00371	.00371	.00401	.01281	.00915	.01329	.00376	.00379	.00387
-3.918	3.661	.00370	.00372	.00401	.01279	.00913	.01328	.00375	.00377	.00387
-3.940	5.650	.00370	.00372	.00402	.01280	.00918	.01329	.00376	.00379	.00387
	GRADIENT	-.00000	-.00000	-.00000	.00000	-.00000	.00000	-.00000	-.00000	-.00000

RUN NO. 112/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.137	-6.016	.00368	.00369	.00399	.01273	.00916	.01321	.00374	.00376	.00383
-.112	-4.042	.00369	.00369	.00400	.01273	.00917	.01321	.00374	.00377	.00384
-.100	-.090	.00368	.00371	.00400	.01274	.00927	.01322	.00374	.00377	.00384
-.048	4.011	.00369	.00371	.00400	.01275	.00917	.01324	.00375	.00378	.00386
-.035	5.998	.00376	.00376	.00408	.01276	.00918	.01326	.00382	.00386	.00391
	GRADIENT	-.00000	.00000	.00000	.00000	-.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D055) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 743.821 SSMEPR = 1312.481
ELV-IB = 4.000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 111/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.737	-6.082	.00372	.00372	.00402	.01267	.00948	.01311	.00378	.00380	.00387
3.770	-4.102	.00358	.00358	.00388	.01268	.00947	.01314	.00364	.00366	.00373
3.718	-.180	.00367	.00368	.00397	.01269	.00939	.01313	.00371	.00375	.00380
3.725	3.662	.00376	.00377	.00407	.01270	.00940	.01318	.00381	.00385	.00392
3.756	5.633	.00368	.00368	.00400	.01272	.00926	.01318	.00374	.00376	.00383
	GRADIENT	.00002	.00002	.00002	.00000	-.00001	.00001	.00002	.00002	.00002

IA138 AMES 246-1-97 OTS POWER ON (U3D056) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 460.159 SSMEPR = 740.665
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 214/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.319	-5.659	.00366	.00368	.00401	.01310	.01233	.01356	.00371	.00379	.00377
-4.419	-3.636	.00368	.00370	.00403	.01310	.01233	.01356	.00374	.00381	.00381
-4.456	.617	.00369	.00370	.00403	.01309	.01234	.01356	.00374	.00381	.00382
-4.244	4.780	.00369	.00369	.00403	.01310	.01233	.01357	.00374	.00381	.00381
-4.169	6.792	.00370	.00370	.00404	.01314	.01236	.01358	.00375	.00382	.00380
	GRADIENT	.00000	-.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 213/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.174	-5.279	.00366	.00367	.00400	.01303	.01228	.01351	.00371	.00376	.00377
-.147	-3.302	.00368	.00368	.00402	.01303	.01231	.01352	.00373	.00380	.00381
-.153	.655	.00368	.00369	.00402	.01306	.01230	.01353	.00372	.00379	.00379
-.093	4.756	.00369	.00369	.00403	.01307	.01231	.01354	.00374	.00379	.00379
-.080	6.741	.00368	.00368	.00403	.01308	.01232	.01354	.00373	.00380	.00379
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D056) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 460.159 SSMEPR = 740.665
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.200

RUN NO. 212/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.837	-5.689	.00360	.00359	.00395	.01300	.01226	.01342	.00365	.00371	.00372
3.930	-3.712	.00365	.00367	.00400	.01301	.01227	.01344	.00370	.00376	.00377
4.047	.488	.00365	.00366	.00399	.01300	.01232	.01344	.00370	.00377	.00377
3.960	4.664	.00369	.00368	.00401	.01299	.01232	.01347	.00372	.00379	.00379
3.926	6.689	.00368	.00368	.00402	.01300	.01231	.01348	.00373	.00379	.00380
	GRADIENT	.00000	.00000	.00000	-.00000	.00001	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D057) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 751.892 SSMEPR = 1322.416
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 217/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.039	-6.049	.00373	.00376	.00409	.01313	.01232	.01357	.00380	.00383	.00389
-4.030	-4.096	.00375	.00376	.00409	.01314	.01230	.01355	.00381	.00384	.00388
-3.952	-.197	.00375	.00376	.00409	.01314	.01233	.01358	.00381	.00386	.00389
-3.946	3.668	.00375	.00377	.00410	.01312	.01236	.01357	.00382	.00386	.00390
-3.963	5.658	.00375	.00375	.00410	.01312	.01236	.01361	.00380	.00384	.00390
	GRADIENT	.00000	.00000	.00000	-.00000	.00001	.00000	.00000	.00000	.00000

RUN NO. 218/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.148	-6.437	.00374	.00375	.00409	.01313	.01238	.01360	.00381	.00384	.00390
-.154	-4.498	.00376	.00376	.00410	.01309	.01234	.01361	.00381	.00385	.00390
-.131	-.471	.00375	.00376	.00410	.01312	.01236	.01360	.00382	.00386	.00390
-.112	3.568	.00375	.00377	.00410	.01312	.01240	.01361	.00382	.00387	.00391
-.096	5.580	.00376	.00376	.00410	.01313	.01239	.01362	.00382	.00387	.00391
	GRADIENT	-.00000	.00000	.00000	.00000	.00001	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D057) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 751.892 SSMEPR = 1322.416
ELV-IB = .000 ELV-OB = -2.000
MACH = 2.500

RUN NO. 219/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.687	-6.089	.00373	.00374	.00408	.01308	.01238	.01363	.00379	.00384	.00387
3.718	-4.104	.00374	.00375	.00410	.01310	.01238	.01363	.00381	.00386	.00388
3.667	-.177	.00375	.00377	.00411	.01311	.01238	.01362	.00382	.00387	.00390
3.676	3.672	.00375	.00378	.00410	.01311	.01239	.01363	.00382	.00386	.00390
3.705	5.646	.00375	.00376	.00410	.01313	.01238	.01363	.00381	.00385	.00388
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D058) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.862 SSMEPR = 741.568
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 186/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.318	-5.657	.00372	.00372	.00403	.01299	.01229	.01343	.00376	.00380	.00383
-4.421	-3.635	.00373	.00372	.00403	.01298	.01234	.01342	.00376	.00381	.00384
-4.457	.620	.00374	.00372	.00404	.01299	.01235	.01344	.00376	.00380	.00384
-4.247	4.785	.00373	.00374	.00404	.01300	.01236	.01346	.00376	.00380	.00384
-4.172	6.797	.00372	.00374	.00403	.01301	.01235	.01347	.00375	.00380	.00383
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	-.00000	.00000

RUN NO. 185/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.174	-5.276	.00372	.00373	.00403	.01292	.01230	.01337	.00375	.00379	.00383
-.147	-3.302	.00372	.00373	.00403	.01294	.01227	.01340	.00375	.00379	.00382
-.151	.660	.00372	.00371	.00403	.01294	.01227	.01339	.00375	.00378	.00383
-.093	4.761	.00373	.00373	.00404	.01293	.01229	.01340	.00375	.00380	.00383
-.080	6.750	.00374	.00373	.00404	.01296	.01229	.01342	.00376	.00380	.00383
	GRADIENT	.00000	.00000	.00000	-.00000	.00000	-.00000	.00000	.00000	.00000

IA138 TABULATED FORCE DATA

IA138 AMES 246-1-97 OTS POWER ON (U3D058) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 462.862 SSMEPR = 741.568
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.200

RUN NO. 184/ 0 RN/L = 3.27 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.837	-5.692	.00369	.00368	.00399	.01286	.01231	.01328	.00371	.00376	.00378
3.931	-3.713	.00371	.00370	.00401	.01286	.01232	.01329	.00374	.00378	.00380
4.048	.490	.00372	.00371	.00402	.01289	.01233	.01331	.00374	.00378	.00382
3.962	4.670	.00372	.00373	.00402	.01289	.01233	.01331	.00375	.00380	.00382
3.925	6.697	.00372	.00372	.00403	.01290	.01229	.01334	.00374	.00379	.00382
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D059) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 187/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.021	-6.050	.00378	.00377	.00409	.01301	.01236	.01345	.00382	.00385	.00391
-4.012	-4.095	.00377	.00377	.00408	.01301	.01237	.01343	.00381	.00384	.00390
-3.933	-.194	.00377	.00377	.00409	.01302	.01237	.01344	.00382	.00383	.00391
-3.929	3.671	.00377	.00377	.00408	.01299	.01235	.01344	.00381	.00384	.00390
-3.947	5.663	.00377	.00378	.00409	.01302	.01231	.01347	.00381	.00382	.00390
	GRADIENT	.00000	.00000	-.00000	-.00000	-.00000	.00000	-.00000	.00000	.00000

RUN NO. 188/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.147	-6.438	.00378	.00377	.00408	.01301	.01232	.01348	.00382	.00384	.00390
-.153	-4.500	.00378	.00376	.00409	.01298	.01235	.01347	.00382	.00383	.00389
-.133	-.469	.00377	.00377	.00408	.01300	.01234	.01347	.00381	.00383	.00390
-.111	3.572	.00378	.00377	.00409	.01300	.01238	.01350	.00382	.00383	.00391
-.095	5.583	.00378	.00377	.00409	.01302	.01239	.01349	.00381	.00383	.00389
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	-.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D059) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 748.275 SSMEPR = 1325.283
ELV-IB = .000 ELV-OB = -5.000
MACH = 2.500

RUN NO. 189/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.687	-6.092	.00377	.00377	.00409	.01302	.01240	.01351	.00382	.00381	.00388
3.721	-4.105	.00378	.00377	.00408	.01303	.01241	.01352	.00382	.00382	.00391
3.670	-.176	.00379	.00377	.00409	.01303	.01240	.01351	.00382	.00384	.00391
3.677	3.675	.00378	.00377	.00409	.01300	.01236	.01350	.00382	.00384	.00390
3.706	5.648	.00378	.00377	.00409	.01300	.01241	.01353	.00381	.00382	.00390
	GRADIENT	.00000	.00000	-.00000	-.00000	-.00001	-.00000	-.00000	.00000	-.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D060) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 753.115 SSMEPR = 1329.449
ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 206/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.261	-6.393	.00372	.00374	.00406	.01286	.01219	.01331	.00378	.00382	.00386
-4.366	-4.373	.00373	.00373	.00406	.01287	.01221	.01332	.00379	.00384	.00388
-4.401	-.125	.00372	.00373	.00406	.01287	.01223	.01332	.00378	.00383	.00388
-4.196	4.033	.00358	.00359	.00391	.01288	.01225	.01334	.00362	.00368	.00370
-4.122	6.043	.00385	.00383	.00416	.01289	.01222	.01335	.00404	.00404	.00403
	GRADIENT	-.00002	-.00002	-.00002	.00000	.00001	.00000	-.00002	-.00002	-.00002

RUN NO. 205/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-.149	-6.434	.00372	.00374	.00406	.01282	.01217	.01326	.00379	.00384	.00385
-.156	-4.495	.00373	.00375	.00407	.01283	.01220	.01328	.00379	.00384	.00388
-.139	-.467	.00372	.00372	.00406	.01283	.01220	.01327	.00378	.00383	.00385
-.112	3.566	.00370	.00370	.00403	.01285	.01219	.01329	.00376	.00380	.00383
-.095	5.571	.00371	.00372	.00405	.01285	.01221	.01330	.00377	.00381	.00386
	GRADIENT	-.00000	-.00001	-.00000	.00000	-.00000	.00000	-.00000	-.00000	-.00001

IA138 AMES 246-1-97 OTS POWER ON (U3D060) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 753.115 SSMEPR = 1329.449
ELV-IB = .000 ELV-OB = 2.000
MACH = 2.500

RUN NO. 204/ 0 RN/L = 2.83 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
3.877	-6.435	.00371	.00371	.00405	.01280	.01224	.01321	.00377	.00383	.00386
3.975	-4.456	.00364	.00365	.00398	.01281	.01222	.01322	.00370	.00376	.00377
4.097	-.255	.00374	.00377	.00409	.01281	.01221	.01324	.00380	.00385	.00388
4.011	3.921	.00364	.00367	.00398	.01281	.01221	.01324	.00370	.00374	.00379
3.979	5.948	.00373	.00372	.00405	.01283	.01218	.01325	.00378	.00383	.00385
	GRADIENT	.00000	.00000	.00000	.00000	-.00000	.00000	.00000	-.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D061) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.861 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 9/ 0 RN/L = 2.81 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	700.439	.00358	.00357	.00000	.01205	.01250	.01258	.00359	.00366	.00357
2.495	791.251	.00353	.00352	.00000	.01208	.01254	.01262	.00355	.00360	.00354
2.495	891.235	.00359	.00359	.00000	.01220	.01252	.01265	.00364	.00369	.00364
2.495	985.257	.00366	.00367	.00000	.01220	.01245	.01258	.00373	.00377	.00373
2.495	1110.786	.00368	.00369	.00000	.01226	.01250	.01255	.00375	.00378	.00377
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D062) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 332.191 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 8/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	674.536	.00368	.00369	.00000	.01222	.01238	.01238	.00365	.00374	.00366
2.495	781.558	.00356	.00356	.00000	.01222	.01237	.01225	.00360	.00366	.00357
2.495	884.227	.00361	.00361	.00000	.01227	.01236	.01220	.00366	.00370	.00364
2.495	966.040	.00367	.00369	.00000	.01228	.01235	.01216	.00376	.00379	.00374
2.495	1082.786	.00373	.00375	.00000	.01234	.01231	.01212	.00381	.00385	.00382
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D063) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 431.638 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 7/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	691.724	.00357	.00356	.00000	.01222	.01209	.01285	.00359	.00366	.00356
2.495	787.714	.00353	.00352	.00000	.01221	.01215	.01320	.00356	.00362	.00354
2.495	888.515	.00359	.00359	.00000	.01235	.01195	.01333	.00363	.00369	.00361
2.495	977.079	.00361	.00362	.00000	.01224	.01198	.01325	.00366	.00372	.00367
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D064) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 586.823 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 5/ 0 RN/L = 2.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	694.010	.00352	.00351	.00000	.01226	.01214	.01330	.00354	.00361	.00351
2.495	790.102	.00369	.00370	.00000	.01249	.01216	.01331	.00372	.00378	.00371
2.495	890.770	.00359	.00358	.00000	.01225	.01218	.01333	.00365	.00369	.00363
2.495	962.520	.00360	.00360	.00000	.01239	.01214	.01323	.00365	.00369	.00366
2.495	1111.960	.00363	.00365	.00000	.01241	.01216	.01323	.00370	.00373	.00371
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D065) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 787.210 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 6/ 0 RN/L = 2.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	699.247	.00353	.00352	.00000	.01208	.01200	.01322	.00356	.00360	.00352
2.495	784.985	.00366	.00366	.00000	.01039	.01212	.01319	.00369	.00373	.00366
2.495	893.168	.00357	.00357	.00000	.01198	.01208	.01320	.00362	.00367	.00360
2.495	975.072	.00363	.00365	.00000	.00990	.01209	.01322	.00367	.00372	.00369
2.495	1096.897	.00371	.00373	.00000	.00951	.01210	.01323	.00377	.00381	.00380
2.495	1100.750	.00366	.00368	.00000	.01267	.01218	.01317	.00372	.00375	.00373
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D066) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 173.739 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 15/ 0 RN/L = 3.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.196	473.335	.00344	.00344	.00000	.01218	.01245	.01349	.00350	.00356	.00348
2.196	533.142	.00356	.00356	.00000	.01213	.01242	.01352	.00362	.00368	.00361
2.196	612.011	.00363	.00363	.00000	.01217	.01245	.01350	.00368	.00373	.00371
2.196	692.350	.00359	.00360	.00000	.01217	.01244	.01354	.00365	.00371	.00369
2.196	791.660	.00357	.00359	.00000	.01215	.01239	.01354	.00368	.00371	.00371
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D067) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 245.420 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 14/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.196	474.014	.00339	.00338	.00000	.01239	.01240	.01348	.00344	.00350	.00341
2.196	539.794	.00353	.00354	.00000	.01239	.01233	.01347	.00359	.00366	.00359
2.196	620.366	.00354	.00354	.00000	.01244	.01242	.01352	.00361	.00367	.00362
2.196	692.092	.00366	.00367	.00000	.01244	.01241	.01352	.00373	.00379	.00377
2.196	781.137	.00366	.00368	.00000	.01238	.01238	.01353	.00374	.00379	.00379
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D068) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 326.815 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 12/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.196	473.543	.00347	.00345	.00000	.01263	.01226	.01348	.00351	.00357	.00348
2.196	539.114	.00355	.00354	.00000	.01262	.01227	.01348	.00355	.00363	.00357
2.196	619.975	.00349	.00348	.00000	.01260	.01231	.01348	.00358	.00363	.00357
2.196	701.069	.00360	.00361	.00000	.01257	.01235	.01349	.00364	.00370	.00370
2.196	787.284	.00365	.00366	.00000	.01261	.01225	.01345	.00373	.00376	.00379
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D069) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 422.548 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 11/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.196	466.171	.00356	.00355	.00000	.01274	.01221	.01352	.00360	.00366	.00357
2.196	527.877	.00356	.00356	.00000	.01263	.01226	.01353	.00361	.00368	.00361
2.196	614.797	.00359	.00359	.00000	.01274	.01217	.01349	.00367	.00372	.00367
2.196	687.255	.00365	.00366	.00000	.01251	.01205	.01355	.00372	.00377	.00375
2.196	785.371	.00365	.00366	.00000	.01216	.01209	.01359	.00373	.00377	.00377
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D070) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 533.014 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 10/ 0 RN/L = 3.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.196	454.525	.00367	.00366	.00000	.01228	.01188	.01346	.00371	.00377	.00368
2.196	533.011	.00357	.00357	.00000	.01192	.01188	.01343	.00364	.00369	.00363
2.196	597.717	.00367	.00367	.00000	.01232	.01187	.01205	.00373	.00377	.00374
2.196	707.150	.00356	.00358	.00000	.01214	.01123	.01200	.00361	.00367	.00365
2.196	788.063	.00365	.00367	.00000	.01209	.01106	.01258	.00374	.00376	.00378
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D071) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 119.218 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 22/ 0 RN/L = 3.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.799	262.393	.00365	.00361	.00000	.01207	.01139	.01251	.00370	.00375	.00363
1.799	306.315	.00367	.00366	.00000	.01206	.01139	.01254	.00374	.00380	.00369
1.799	369.375	.00377	.00377	.00000	.01202	.01135	.01252	.00383	.00390	.00384
1.799	428.948	.00376	.00376	.00000	.01202	.01138	.01256	.00384	.00390	.00386
1.799	493.852	.00381	.00381	.00000	.01195	.01132	.01249	.00390	.00394	.00394
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D072) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 156.726 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 23/ 0 RN/L = 3.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.799	265.327	.00365	.00363	.00000	.01217	.01154	.01269	.00370	.00377	.00365
1.799	304.270	.00370	.00369	.00000	.01214	.01153	.01267	.00377	.00383	.00373
1.799	370.793	.00374	.00372	.00000	.01216	.01155	.01268	.00380	.00385	.00379
1.799	427.575	.00377	.00377	.00000	.01212	.01151	.01266	.00384	.00391	.00386
1.799	491.340	.00382	.00382	.00000	.01213	.01154	.01265	.00390	.00396	.00393
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D073) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 200.661 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 24/ 0 RN/L = 3.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.799	265.751	.00366	.00364	.00000	.01224	.01164	.01272	.00371	.00376	.00367
1.799	305.495	.00369	.00367	.00000	.01225	.01166	.01276	.00376	.00382	.00372
1.799	367.630	.00374	.00372	.00000	.01220	.01163	.01272	.00380	.00386	.00380
1.799	430.163	.00376	.00376	.00000	.01222	.01164	.01274	.00383	.00389	.00385
1.799	493.187	.00377	.00379	.00000	.01222	.01162	.01271	.00385	.00390	.00388
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D074) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 268.756 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 25/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.799	270.139	.00365	.00360	.00000	.01233	.01177	.01282	.00370	.00377	.00369
1.799	308.321	.00366	.00364	.00000	.01234	.01176	.01283	.00372	.00378	.00369
1.799	429.540	.00378	.00378	.00000	.01233	.01177	.01283	.00385	.00392	.00387
1.799	493.833	.00373	.00375	.00000	.01234	.01177	.01281	.00382	.00386	.00385
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D075) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 246.024 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 26/ 0 RN/L = 3.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.799	-5.022	-.11469	-.11489	.00000	.05680	.05544	.05519	-.12494	-.11399	-.11439
1.799	267.524	.00364	.00362	.00000	.01237	.01180	.01284	.00370	.00376	.00370
1.799	304.918	.00372	.00371	.00000	.01235	.01181	.01284	.00379	.00384	.00377
1.799	368.635	.00369	.00367	.00000	.01237	.01183	.01284	.00376	.00380	.00374
1.799	427.720	.00378	.00378	.00000	.01237	.01183	.01283	.00384	.00391	.00385
1.799	495.808	.00375	.00377	.00000	.01237	.01184	.01283	.00383	.00388	.00386
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D076) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 81.454 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 17/ 0 RN/L = 4.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.550	-.028	19.69353	19.85767	.00000	-.84147	-.75166	-.81360	21.52985	19.60120	19.64224
1.550	234.438	.00369	.00366	.00000	.01284	.01222	.01331	.00374	.00377	.00376
1.550	269.335	.00381	.00379	.00000	.01282	.01219	.01333	.00387	.00390	.00389
1.550	306.756	.00374	.00373	.00000	.01278	.01215	.01332	.00381	.00383	.00384
1.550	344.734	.00378	.00378	.00000	.01277	.01213	.01328	.00387	.00386	.00390
1.550	396.657	.00379	.00381	.00000	.01276	.01212	.01328	.00391	.00389	.00393
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D077) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 120.674 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 18/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.550	236.120	.00369	.00366	.00000	.01267	.01203	.01314	.00376	.00379	.00376
1.550	270.597	.00378	.00378	.00000	.01263	.01203	.01310	.00385	.00389	.00386
1.550	307.498	.00379	.00380	.00000	.01258	.01199	.01309	.00388	.00391	.00390
1.550	340.713	.00388	.00388	.00000	.01254	.01198	.01308	.00391	.00398	.00398
1.550	397.836	.00379	.00380	.00000	.01262	.01197	.01305	.00388	.00390	.00392
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D078) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 153.981 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 19/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.550	238.473	.00373	.00372	.00000	.01262	.01195	.01302	.00380	.00385	.00382
1.550	270.308	.00380	.00379	.00000	.01249	.01176	.01301	.00387	.00390	.00389
1.550	306.727	.00377	.00377	.00000	.01250	.01175	.01285	.00384	.00388	.00386
1.550	342.272	.00383	.00382	.00000	.01255	.01179	.01289	.00390	.00393	.00392
1.550	395.886	.00384	.00387	.00000	.01251	.01180	.01294	.00394	.00395	.00398
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D079) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 197.234 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 20/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.550	237.165	.00376	.00375	.00000	.01250	.01186	.01297	.00382	.00386	.00387
1.550	268.463	.00374	.00374	.00000	.01250	.01185	.01286	.00382	.00386	.00384
1.550	306.083	.00385	.00384	.00000	.01248	.01186	.01291	.00392	.00396	.00395
1.550	344.254	.00382	.00382	.00000	.01241	.01187	.01289	.00390	.00394	.00393
1.550	396.561	.00385	.00385	.00000	.01247	.01188	.01288	.00394	.00397	.00399
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D080) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 236.910 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 21/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
1.550	236.805	.00372	.00371	.00000	.01248	.01190	.01290	.00380	.00385	.00387
1.550	266.814	.00376	.00375	.00000	.01253	.01187	.01295	.00383	.00389	.00386
1.550	307.553	.00377	.00377	.00000	.01250	.01184	.01291	.00384	.00389	.00387
1.550	341.146	.00384	.00385	.00000	.01250	.01185	.01289	.00392	.00397	.00395
1.550	397.808	.00383	.00383	.00000	.01250	.01189	.01289	.00393	.00395	.00395
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D081) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1189.695 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 29/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	247.091	.00366	.00366	.00000	.01152	.01114	.01224	.00374	.00380	.00406
2.495	334.809	.00367	.00368	.00000	.01182	.01140	.01246	.00375	.00380	.00409
2.495	431.493	.00371	.00370	.00000	.01201	.01156	.01261	.00374	.00381	.00410
2.495	588.064	.00369	.00368	.00000	.01220	.01173	.01273	.00374	.00379	.00408
2.495	853.624	.00369	.00369	.00000	.01234	.01184	.01282	.00372	.00379	.00406
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D082) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XC
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 1286.983 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 30/ 0 RN/L = 2.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.495	248.686	.00371	.00371	.00000	.01161	.01121	.01238	.00376	.00381	.00413
2.495	335.497	.00374	.00373	.00000	.01184	.01150	.01255	.00379	.00384	.00416
2.495	431.264	.00370	.00370	.00000	.01207	.01182	.01266	.00377	.00382	.00412
2.495	588.751	.00372	.00372	.00000	.01224	.01175	.01278	.00378	.00383	.00414
2.495	853.396	.00371	.00372	.00000	.01237	.01188	.01287	.00377	.00383	.00411
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D083) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 892.658 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 27/ 0 RN/L = 3.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.195	171.937	.00374	.00374	.00000	.01152	.01110	.01215	.00380	.00385	.00416
2.195	246.282	.00374	.00375	.00000	.01185	.01140	.01243	.00381	.00385	.00419
2.195	332.042	.00375	.00376	.00000	.01209	.01163	.01260	.00381	.00387	.00421
2.195	421.144	.00376	.00377	.00000	.01221	.01174	.01270	.00381	.00386	.00421
2.195	532.514	.00379	.00380	.00000	.01229	.01181	.01275	.00385	.00391	.00423
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D084) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 988.268 ALPHA = .000
BETA = .000 ELV-IB = 10.000
ELV-OB = -2.000

RUN NO. 28/ 0 RN/L = 3.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.195	173.747	.00377	.00378	.00000	.01159	.01115	.01221	.00384	.00388	.00423
2.195	242.620	.00376	.00377	.00000	.01195	.01147	.01253	.00382	.00387	.00422
2.195	328.599	.00375	.00375	.00000	.01213	.01163	.01265	.00381	.00386	.00420
2.195	420.578	.00381	.00382	.00000	.01222	.01173	.01273	.00387	.00391	.00427
2.195	529.047	.00374	.00376	.00000	.01230	.01183	.01280	.00381	.00384	.00419
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D086) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SSMEPR = 804.690 ALPHA = .000
BETA = .000 ELV-IB = .000
ELV-OB = -2.000

RUN NO. 215/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SRBPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.195	459.491	.00370	.00370	.00406	.01313	.01235	.01358	.00375	.00381	.00381
2.195	459.921	.00357	.00357	.00387	.01311	.01231	.01358	.00360	.00368	.00363
2.195	462.478	.00375	.00375	.00411	.01308	.01235	.01357	.00382	.00386	.00391
2.195	463.612	.00383	.00384	.00419	.01308	.01236	.01358	.00392	.00393	.00400
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D087) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

SRBPR = 498.342 ALPHA = .000
BETA = .000 ELV-IB = .000
ELV-OB = -2.000

RUN NO. 216/ 0 RN/L = 3.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	SSMEPR	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
2.195	863.720	.00376	.00376	.00411	.01314	.01240	.01362	.00382	.00387	.00391
2.195	864.434	.00378	.00376	.00410	.01306	.01236	.01351	.00382	.00384	.00388
2.195	867.441	.00376	.00377	.00411	.01328	.01249	.01364	.00384	.00387	.00391
2.195	871.288	.00377	.00379	.00412	.01295	.01228	.01342	.00384	.00387	.00391
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

IA138 AMES 246-1-97 OTS POWER ON (U3D089) (19 OCT 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO
LREF = 474.8100 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = -5.000
MACH = 1.550 SRBPR = .000
SSMEPR = .000

RUN NO. 154/ 0 RN/L = 4.09 GRADIENT INTERVAL = -5.00/ 5.00

BETA	ALPHA	CPR95	CPR96	CPR97	CPR98	CPR99	CPR100	EPR1	EPR2	EPR3
-4.373	-6.160	.00377	.00379	.00410	.01285	.01223	.01322	.00383	.00383	.00388
-4.473	-4.140	.00378	.00378	.00410	.01286	.01223	.01322	.00383	.00384	.00388
-4.509	.114	.00378	.00377	.00410	.01288	.01225	.01322	.00383	.00383	.00386
-4.299	4.278	.00378	.00380	.00410	.01286	.01224	.01321	.00383	.00384	.00389
-4.226	6.291	.00379	.00380	.00411	.01287	.01225	.01323	.00384	.00385	.00389
	GRADIENT	-.00000	.00000	.00000	-.00000	.00000	-.00000	.00000	-.00000	.00000