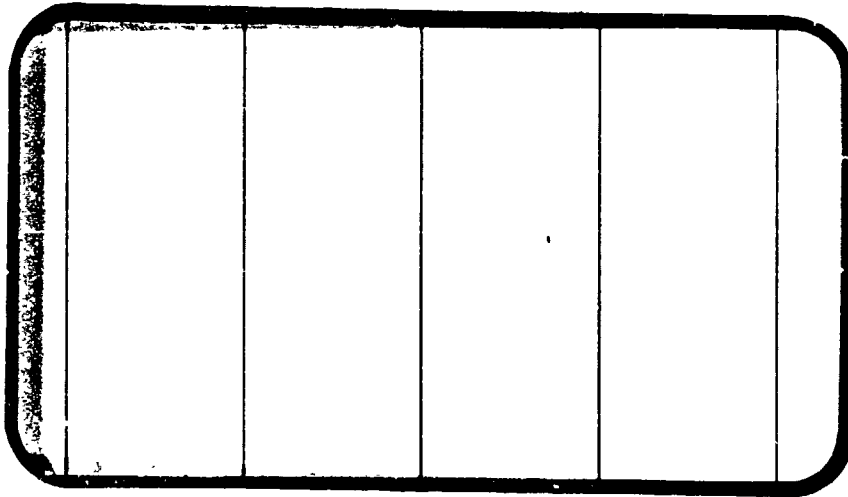




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(NASA-CR-128799) RESULTS OF TESTS OF A
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SHUTTLE ORBITER CONFIGURATIONS 3 AND 3A
IN THE AMES RESEARCH CENTER (Chrysler
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services



September, 1974

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RESULTS OF TESTS OF 0.010- AND 0.015-SCALE
MODELS OF SPACE SHUTTLE ORBITER
CONFIGURATIONS 3 AND 3A IN THE AMES RESEARCH CENTER
3.5-FOOT HYPERSONIC WIND TUNNEL (0A23)

By

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Prepared under NASA Contract Number NAS9-13247

By

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New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 3.5-168
NASA Series No: OA23
Test Date: 19 July to 31 July, 1973
Model Number: 32-0, 49-0

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RESULTS OF TESTS OF 0.010- AND 0.015-SCALE MODELS
OF SPACE SHUTTLE ORBITER CONFIGURATIONS 3 and 3A IN THE
AMES RESEARCH CENTER 3.5-FOOT HYPERSONIC WIND TUNNEL (0A23)

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J. W. Cleary and J. A. Mellenthin, NASA/Ames

ABSTRACT

Tests were conducted on a 0.010-scale model of the Configuration 3 and a 0.015-scale model of the Configuration 3A Space Shuttle Vehicle orbiter in the Ames Research Center 3.5-Foot Hypersonic Wind Tunnel.

Longitudinal and lateral-directional stability and control characteristics were evaluated at Mach numbers of 5.3, 7.3 and 10.3 at angles of attack up to 50 degrees with $\beta = 0$ degrees and, for a few cases, $\beta = 5$ degrees. Six-component force data, fuselage base pressures and shadow-graph patterns were recorded.

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COEFFICIENT SCHEDULE

- A:
CL, CN, CD, CDF, CA, CAF, CAB
CLMFWD, CLMAFT, XCP/L, L/D VS. ALPHA

CL, CN VS. CLMFWD
CL VS. CD
- B:
DCL, DCN, DCD, DCDF, DCA, DCAF,
DCAB, DCMFWD, DCMAFT VS. ALPHA
- C:
DCL, DCN, DCD, DCDF, DCA, DCAF, DCAB,
DCMFWD, DCMAFT VS. MACH
- D:
DCL, DCN, DCD, DCA,
DCMFWD, DCMAFT VS. DE
- E:
DCL, DCN, DCD, DCA,
DCMFWD, DCMAFT VS. DBF
- F:
CY, CYN, CBL, DCY/DE
DCYNDB, DCBLDB VS. ALPHA

DCY/DB, DCYNDB, DCBLDB VS. MACH
- G:
CY, CYN, CBL, DCY/DA, DCYNDA
DCBLDA VS. ALPHA
- H:
CY, CYN, CBL, DCY/DR,
DCYNDR, DCBLDR VS. ALPHA

NOMENCLATURE
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(P_1 - P_\infty)/q$
M	MACH	Mach number; V/a
P		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

Ab		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
C.G.		center of gravity
l_{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
XCG	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
ZCG	ZMRP	moment reference point on Z axis

SUBSCRIPTS

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

REPRODUCIBILITY OF THE
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NONTERMINOLOGY (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-1/2(\rho_b - \rho_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS_b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS_b}$

Stability-Axis System

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

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$C_{m_{fwd}}$	CLMFWD	pitching moment coefficient about forward center of gravity location.
$C_{m_{aft}}$	CLMAFT	pitching moment coefficient about aft center of gravity location.
A_{BM}		OMS pod base area, ft. ²
A_{SC}		sting cavity area, ft. ²
CA_u	CA	unadjusted balance output axial-force coefficient.
CP_{bi}		base pressure coefficient at station i.
l_B		reference body length, inches.
X_{CP}/l_B	XCP/L	longitudinal center of pressure location, fraction of body length
ΔC_N	DCN	incremental normal force coefficient, algebraic difference of two runs.
ΔC_A	DCA	incremental axial force coefficient, algebraic difference of two runs.
ΔC_{AB}	DCAB	incremental base axial force coefficient, algebraic difference of two runs
ΔC_{AF}	DCAF	incremental forebody axial force coefficient, algebraic difference of two runs.
ΔC_L	DCL	incremental lift coefficient, algebraic difference of two runs.
ΔC_D	DCD	incremental drag coefficient, algebraic difference of two runs.
ΔC_{DF}	DCDF	incremental forebody drag coefficient; algebraic difference of two runs.

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
ΔC_{mFWD}	DCMFWD	incremental pitching moment coefficient about forward C.G., algebraic difference of two runs.
ΔC_{mAFT}	DCMAFT	incremental pitching moment coefficient about aft C.G., algebraic difference of two runs.
$C_{Y\beta}$	DCY/DB	side force coefficient derivative with respect to beta. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; per degree.
$C_{n\beta}$	DCYNDB	yawing moment coefficient derivative with respect to beta. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; body axis system; per degree.
$C_{l\beta}$	DCBLDB	rolling moment coefficient derivative with respect to beta. Algebraic difference of rolling moment coefficient of two runs divided by algebraic difference of side slip angle of the runs; body axis system; per degree.
$C_{Y\delta_a}$	DCY/DA	side force coefficient derivative with respect to total aileron deflection. Algebraic difference of the side force coefficients of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; per degree.
$C_{n\delta_a}$	DCYNDA	yawing moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.
$C_{l\delta_a}$	DCBLDA	rolling moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.

NOMENCLATURE (Continued)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$C_{Y\delta_r}$	DCY/DR	side force coefficient derivative with respect to rudder deflection. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{n\delta_r}$	DCYNDR	yawing moment coefficient derivative with respect to rudder deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{l\delta_r}$	DCBLDR	rolling moment coefficient derivative with respect to rudder deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
δ_{BF}	BDFLAP	body flap deflection angle, positive deflection trailing edge down; degrees.
δ_r	RUDDER	rudder deflection angle, positive deflection trailing edge left; degrees.
δ_{SB}	SPDBRK	split rudder deflection angle, left split rudder trailing edge left and right rudder trailing edge right, $\delta_{SB} = (\delta_{rL} + \delta_{rR})/2$, positive deflection; degrees.
δ_{eL}		left elevon surface deflection angle, positive deflection trailing edge down; degrees
δ_{eR}		right elevon surface deflection angle, positive deflection trailing edge down, degrees.
δ_e	ELEVON	surface deflection angle, positive deflection trailing edge down, degrees $(\delta_{eL} + \delta_{eR})/2$.

NOMENCLATURE (Concluded)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
δ_a	AILRON	aileron deflection angle, positive deflection trailing edge down; degrees $(\delta_{eL} - \delta_{eR})/2$.
Δ	DA	incremental aileron deflection angle, algebraic difference of two runs; degrees.
$\Delta\delta_e$	DE	incremental elevon deflection angle, algebraic difference of two runs; degrees.
$\Delta\delta_{BF}$	DBF	incremental body flap deflection angle, algebraic difference of two runs; degrees.

INTRODUCTION

This document presents the results of tests conducted on 0.010- and 0.015-scale models of the Space Shuttle Vehicle (SSV) orbiter representing Configurations 3 and 3A, respectively. Elevon and body flap effectiveness were determined for both models; aileron, speed brake and rudder effectiveness as well as the contributions due to model components were also evaluated for the smaller model.

The tests were performed in the Ames Research Center (ARC) 3.5-Foot Hypersonic Wind Tunnel (HWT) at $M = 5.3, 7.3$ and 10.3 as Ames test number 3.5-168. The smaller model (Model 32-0) was tested at angles of attack up to 50 degrees whereas the larger model (Model 49-0) was limited to 40 degrees due to tunnel blockage considerations. Most data were acquired at $\beta = 0$ degrees, with a few runs being made at $\beta = 5$ degrees.

Six-component force balance data, fuselage base pressure and shadow-graph data were recorded for both models. Temperatures were measured on the small model in the fuselage nose and on the underside of the balance block in the vicinity of the wing-attachment bolts.

Twenty-five runs were made on the large model and thirty-seven runs on the small model during the period July 19 to 31, 1973.

CONFIGURATIONS INVESTIGATED

The test articles were 0.010- and 0.015-scale force models of the Space Shuttle Vehicle (SSV) orbiter Configurations 3 and 3A, respectively. The models were built by Rockwell International and identified as 32-0 (0.010-scale) and 49-0 (0.015-scale). The 0.015-scale model was constructed of Armco 17-4 stainless steel with the following removable components: wing, vertical tail, canopy orbital maneuvering subsystem-reaction control subsystem (OMS-RCS) pods, and body flap. The fuselage of the 0.010-scale model was constructed of 7075 T-6 aluminum and the wing was constructed of stainless steel. The 0.010-scale model had the same removable components as the 0.015-scale model. The wing was capable of elevon deflections of 0, ± 5 degrees, 10 degrees, -15 degrees, -20 degrees, -25 degrees, -30 degrees, -35 degrees, and -40 degrees. The body flap could be set at deflections of 0 degree, +13.75 degrees, and -14.25 degrees. Rudder and speedbrake deflections are shown below:

Speedbrake Settings

$$\delta_{SB} = 54.92^\circ$$

$$\delta_{SB} = 84.92^\circ$$

Available Rudder Deflections

$$\delta_r = 0^\circ, -10^\circ, -20^\circ$$

$$\delta_r = 0^\circ, -10^\circ$$

The following nomenclature has been used to designate model

components:

<u>Component</u>	<u>Definition</u>
B ₁₉	Basic fuselage of the SSV orbiter Configuration 3(VL70-000139B)
B ₂₂	Basic fuselage of the Rockwell International SSV orbiter Configuration 3A (VL70-000147B)
C ₇	Basic Configuration 3A canopy built to drawing lines VL70-000139B
E ₂₃	Elevons on the basic W ₁₀₇ wing (VL70-000139B)
F ₅	Basic Configuration 3A body flap (VL70-000139B)
M ₄	Basic Configuration 3A OMS-RCS pods (VL70-000145) including N ₈ OMS engine nozzles
N ₈	Basic OMS nozzle of Configuration 2A (VL70-008306 and VL70-000089B)
O _{139B}	B ₁₉ C ₇ E ₂₃ F ₅ M ₄ N ₈ R ₅ V ₇ W ₁₀₇
O _{147B}	B ₂₂ C ₇ E ₂₃ F ₅ M ₄ N ₈ R ₅ V ₇ W ₁₁₁
R ₅	Basic Configuration 3A rudder (VL70-000139B)
V ₇	Basic Configuration 3A vertical tail (VL70-000139B)
W ₁₀₇	Basic Configuration 3 wing (VL70-000139B)
W ₁₁₁	Basic configuration 3A wing (VL70-000147B)

The Configuration 3 and 3A baseline is shown in Figure 2a and model nomenclature is illustrated in Figure 2b. Two sets of dimensional data sheets follow: the first is for the 0.010-scale model and the second is for the 0.015-scale model.

TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft³ vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12-feet in diameter and 40-feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +18 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37-inches from tunnel centerline) until the tunnel test conditions are established after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

TEST PROCEDURE

The models were sting mounted from the smaller of the two available model support struts in the ARC 3.5-Foot Hypersonic Wind Tunnel. The same Task Corporation MK IID internal strain gauge balance used in tests OA11B and OA58 was supplied by ARC to measure the six-component loads acting on the 0.015-scale model. A Task Corporation MK XIVA balance was supplied by ARC for use with the 0.010-scale model. Thermally insulating glass/silicon sleeves were used with both balances.

Rockwell sting W-1101-S, mounted 3.5 inches below tunnel centerline, was used for both models. This sting is provided with interchangeable bent adaptors just behind the balance socket which enable high angles of attack and sideslip angles of 0° and 5° to be achieved. Adaptors with 20° , 30° and 40° bend angles were used in this test.

Five one-sixteenth-inch ID stainless steel tubes were routed externally along the sting to sense pressures at the base of the models at points shown in Figure 2c. The pressures were measured by individual 0-to5 psia cells located in the model support strut.

Runs were normally made by pitching the model from the maximum positive angle of attack to the lowest angle in order to minimize tunnel blockage at the higher vacuum sphere pressures near the end of a run. Run 7 was made by pitching in the reverse direction and run 22 was made by pitching up and then pitching down to determine if there was any aerodynamic hysteresis.

DATA REDUCTION

Standard ARC methods were used to compute coefficient data. Aerodynamic coefficients are presented in body axes and stability axes systems. Axial-force and drag coefficients and the ratio of lift to drag are presented with and without adjustments of the fuselage base pressure to free stream static pressure.

Base pressure coefficients were computed by:

$$C_{P_{b_i}} = \frac{P_{b_i} - P_o}{q}$$

where $i = 1$ through 5.

Base axial-force coefficients were computed by:

$$C_{A_b} = -\frac{1}{5} \frac{(A_B + A_{B_M} + A_{SC})}{S} \sum_{i=1}^5 C_{P_{b_i}}$$

Note: Except for the following conditions:

RB6001, M=5, CPB1 & CPB2
 RB6002, M=5, CPB2
 RB6030, M=5, CPB2
 RB6031, M=5, CPB2

where A_B = fuselage base area, ft^2

A_{B_M} = total base area of two OMS pods, ft^2

A_{SC} = sting cavity base area, ft^2

S = wing reference area, ft^2

Forebody axial-force coefficients were computed by:

$$C_{A_f} = C_{A_u} - C_{A_b}$$

where C_{A_u} = unadjusted axial-force coefficient

DATA REDUCTION (Continued)

Center-of-pressure location was computed in percent of body length by:

$$X_{CP}/l_B = \left[X_{CG} - \frac{C_m \bar{c}}{C_N} \right] / l_B$$

where X_{CG} = center-of-gravity location aft of model nose, inches

l_B = reference body length, inches

Lift-to-drag ratios based on C_{A_u} and C_{A_f} were computed by:

Using C_A , $L/D = (C_L/C_D)$

Using C_{A_f} , $L/D_f = (C_L/C_D)_f$

Reference Dimensions and Constants

Symbol	Definition	Value	
		0.015-Scale	0.010-Scale
A_B	Net fuselage base area normal to balance axis:		
	M_4 on, F_5 on	0.045 ft ²	0.020 ft ²
	M_4 on, F_5 off	0.048 ft ²	0.021 ft ²
	M_4 off, F_5 on	0.047 ft ²	0.021 ft ²
	M_4 off, F_5 off	0.050 ft ²	0.022 ft ²
A_{B_M}	Base area of two OMS pods	0.019 ft ²	0.008 ft ²
A_{SC}	Sting cavity base area	0.034 ft ²	0.015 ft ²
b	Span, wing	14.050 in	9.367 in
X_{CG}	*Ref C.G.	12.577 in	8.385 in
Z_{CG}	Ref C.G.	FRL(Z=6.00in)	FRL (Z=4.00in)
<u>C bal X</u>	Center, balance	16.63 in	10.670 in

*Longitudinal distance, orbiter nose to moment reference center

DATA REDUCTION (Concluded)

\bar{c}	MAC, wing	7.122 in	4.746 in
l_b	Ref body length	19.35 in	12.903 in
S	Ref wing area	0.605 ft ²	0.259 m ²

TABLE I.
a. 0139B Model

TEST : 0A23 (3.5-168)		DATE : July, 1973	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
5.3	1.35×10^6	2.57	740
7.3	2.50×10^6	3.68	740
10.3	1.74×10^6	2.29	1540
10.3 *	1.0×10^6	1.27	1540

BALANCE UTILIZED: Task MK XIVA 1.0-inch Dia.

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>800 lb.</u>	<u>1/2%</u>	<u> </u>
SF	<u>400 lb.</u>	<u>1/2%</u>	<u> </u>
AF	<u>100 lb.</u>	<u>1/2%</u>	<u> </u>
PM	<u>1600 in.-lb.</u>	<u>1/2%</u>	<u> </u>
RM	<u>250 in.-lb.</u>	<u>1/2%</u>	<u> </u>
YM	<u>660 in.-lb.</u>	<u>1/2%</u>	<u> </u>

COMMENTS: This balance was used with the 0.010-scale 0_{139B} model.

* Run 64 only.

TABLE II.

TEST: C123 (AMP 168)		DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: 7-24-13									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTR ^o DEFLECTION			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	ϕ	θ	ψ		ϕ	5.2	7.2	10.2							
RB6001	147B Mod. 47-0	4	0	0	-142	55	0	10	22	2								
02			5	0				9	26	8								
03			0	-40				13	17	6/7								
04				-30					34									
05				15				14	18	?								
06				-13	0				30									
07				0	0			11	21	1								
08				0	13.75			12	17	5								
09				15	13.75			12	21	4								
RB6010	1312 Mod. 32-0	0	0	0	0	55	0											
11				0	13.75			2	17									
12				0	-14.25			34	17									
13				10	-14.25				37									
RB6012	1398 Mod. 32-0	0	0	10	13.75	55	0	51	21									
14				-40	13.75				33									
15				-40	0				34									

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TEST RUN NUMBERS

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

CM C2 CLM CL CD CP1 CP2 CP3 CP4 CP5 MACH ALPHA

CY CYN CBL L/D COEFFICIENTS IDVAR (1) IDVAR (2) NOV

α OR β H: 2° to 40° 0147B = B₂₂ C₇ E₂₃ F₃ M₄ N₈ R₅ V₇ W₁₁₁ (C. C. 15 SCALE)

SCHEDULES B: 12 to 51° 01398 = B₁₉ C₇ E₂₃ F₃ M₄ N₇ R₅ V₇ W₁₀₇ (O. C. 10 SCALE)

TABLE II. (Continued)

TEST: <i>WAVE 711-1-1</i>		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: <i>11/1/54</i>								
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		α	β	δ_{LR}	δ_{RF}	δ_{SE}	δ_{SR}		5.2	7.0	10.2									
<i>RBL01</i>	<i>1318 MOD 33-0</i>	<i>B</i>	<i>0</i>	<i>-40</i>	<i>14.25</i>	<i>55</i>	<i>0</i>		<i>53</i>	<i>35/34</i>										
<i>19</i>				<i>-30</i>						<i>31</i>										
<i>20</i>				<i>-20</i>					<i>51</i>	<i>38</i>										
<i>21</i>				<i>-10</i>						<i>37</i>										
<i>22</i>				<i>1/10</i>						<i>37</i>										
<i>23</i>				<i>3/6</i>						<i>41</i>										
<i>24</i>				<i>5/6</i>						<i>42</i>										
<i>25</i>			<i>5</i>	<i>0</i>					<i>57</i>	<i>43</i>										
<i>26</i>		<i>A</i>	<i>0</i>				<i>-10</i>			<i>44</i>										
<i>27</i>							<i>85</i>	<i>0</i>		<i>45</i>										
<i>28</i>							<i>85</i>	<i>-10</i>		<i>47</i>										
<i>29</i>	<i>B19C7E4715114</i>	<i>B</i>				<i>55</i>	<i>0</i>			<i>46</i>										
<i>30</i>	<i>B19C7E5</i>									<i>47</i>										
<i>31</i>	<i>B19C7</i>									<i>48</i>										
<i>32</i>	<i>1318 MOD 33-0</i>	<i>B</i>	<i>5</i>	<i>0</i>	<i>14.25</i>	<i>55</i>	<i>0</i>			<i>55</i>										
<i>33</i>		<i>B</i>	<i>0</i>	<i>0</i>	<i>14.25</i>	<i>55</i>	<i>0</i>			<i>55</i>										
<i>34</i>					<i>0</i>					<i>55</i>										
<i>35</i>					<i>13.75</i>					<i>61</i>										

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TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75	76
<i>CM</i>	<i>CR</i>	<i>CLM</i>	<i>CL</i>	<i>CR</i>	<i>CR1</i>	<i>CR2</i>	<i>CR3</i>	<i>CR4</i>	<i>CR5</i>	<i>MACH</i>	<i>U.F.A.</i>		
α OR β		COEFFICIENTS					IDVAR (1)		IDVAR (2)		NDV		
SCHEDULES		<i>A: 2° 10' 40"</i> <i>B: 12° 31'</i>					<i>CMR 2 - 012515 Na₂SO₄ W₂O₅ 10L 54.1</i>		<i>CR2 - 012515 Na₂SO₄ W₂O₅ (C.O.P. 50.1)</i>				

TABLE II. (Concluded)

TEST: CA23 (ARC 5:5-168)		DATA SET/RUN NUMBER COLLATION SUMMARY						DATE: 7-24-73														
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)													
		α	β	2r	BF	2R	2R		5.2	7.2	10.2											
RB6036	1398 MOD 32-0	B	0	10/10	13.75	55	0				62											
37	↓	↓	↓	40/40	14.25	↓	↓				63											
38	↓	↓	↓	40/40	14.25	↓	↓				64											

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CM	CA	CLM	CI	CL	CP1	CP2	CP3	CP4	CP5	MACH	INDV1	INDV2	INDV3
C	CYN	CF	CH	CH	COEFFICIENTS			IDVAR (1) IDVAR (2) NDV					
α OR β SCHEDULES		H: 12 to 51						CA23 = B19 C7 E23 F2114 A10 A V111111 (COEFFICIENTS) CP2 = B19 C7 E23 F2114 A10 A V111111 (COEFFICIENTS)					

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TABLE III. - MODEL COMPONENT DESCRIPTIONS

Dimensional Data for the 0.010-Scale Model

Model Component: Body (B₁₉)
 General Description: Configuration 3A lightweight orbiter fuselage

 Model scale = 0.010 Model Drawing No. SS-A00062
 Drawing Number: VL70-000139B

Dimensions:	<u>Full-Scale</u>	<u>Model Scale</u>
Length - in.	<u>1290.3</u>	<u>12.903</u>
Max width - in. (at X ₀ = 1528.3 in.)	<u>267.6</u>	<u>2.676</u>
Max depth - in. (at X ₀ = 1480.52 in.)	<u>244.5</u>	<u>2.445</u>
*Fineness ratio	<u>4.846</u>	<u>4.846</u>
Area - ft ²		
Max cross-sectional (at X ₀ = 1480.52 in.)	<u>386.67</u>	<u>0.03867</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

*Fineness ratio is the fuselage length divided by the equivalent diameter for the maximum cross-sectional area.

TABLE III. - Continued.

Model Component: Body (B 22)

General Description: Fuselage, configuration 3A lightweight orbiter

Note: Identical to B17 except forebody

Model scale = 0.015

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	<u>1290.3</u>	<u>19.35450</u>
Max width - in.	<u>267.6</u>	<u>4.0140</u>
Max depth - in.	<u>244.5</u>	<u>3.66750</u>
Fineness ratio	<u>4.84601</u>	<u>4.84601</u>
Area - ft ²		
Max cross-sectional	<u>386.67</u>	<u>0.08700</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

Model Component: Canopy (C7)

General Description: Configuration 3A lightweight orbiter canopy

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000i39B

Dimensions:	Full-Scale	Model Scale
Length - in. (X ₀ = 433 in. to X ₀ = 670 in.)	237	2.370
Max width - in.	_____	_____
Max depth - in.	_____	_____
Fineness ratio	_____	_____
Area - ft ²	_____	_____
Max cross-sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. - Continued.

MODEL COMPONENT: Canopy - C7

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

Model Scale = .015

DRAWING NUMBER VL70-000139

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length ($X_0 = 433$ to $X_0 = 670$) - in. FS	<u>237</u>	<u>3.5550</u>
Max Width	<u> </u>	<u> </u>
Max Depth ($Z_0 =$ to $Z_0 = 501$) - in FS	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

Model Component: Elevon (E23)

General Description: Configuration 3A lightweight orbiter elevons
Data for 1 of 2 sides

Model scale = 0.010 Model Drawing No. SS-A00109

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Area ~ ft ²	<u>205.52</u>	<u>0.02055</u>
Span (equivalent) ~ in.	<u>353.34</u>	<u>3.5334</u>
Inbd equivalent chord ~ in.	<u>114.78</u>	<u>1.1478</u>
Outbd equivalent chord ~ in.	<u>55.00</u>	<u>0.550</u>
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	<u>0.208</u>	<u>0.208</u>
At outbd equiv chord	<u>0.400</u>	<u>0.400</u>
Sweepback angles ~ deg		
Leading edge	<u>0.00</u>	<u>0.00</u>
Trailing edge	<u>-10.24</u>	<u>-10.24</u>
Hinge line	<u>0.00</u>	<u>0.00</u>
Area moment (normal to hinge line) ~ ft ³	<u>1548.07</u>	<u>0.00155</u>

TABLE III. - Continued

Model Component: Elevon (E₂₃)General Description: Elevons for wing W₁₀₇
(Data for 1 of 2 sides)

Model scale = 0.015

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Area - ft ²	205.52	0.04624
Span (equivalent) - in.	353.34	5.30010
Inbd equivalent chord - in.	114.78	1.72170
Outbd equivalent chord - in.	55.00	0.8250
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.208	0.208
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	0.00	0.00
Trailing edge	-10.24	-10.24
Hinge line	0.00	0.00
Area moment (normal to hinge line) - ft ³	1548.07	0.00522

TABLE III. - Continued.

Model Component: Body flap (F₅)

General Description: Configuration 3 Lightweight orbiter body flap

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B

Dimensions:	Full-Scale	Model Scale
Length - in.	<u>84.70</u>	<u>0.8470</u>
Max width - in.	<u>267.6</u>	<u>2.6760</u>
Max depth - in.	<u> </u>	<u> </u>
Fineness ratio	<u> </u>	<u> </u>
Area - ft ²		
Max cross-sectional	<u> </u>	<u> </u>
Planform	<u>142.5195</u>	<u>0.01425195</u>
Wetted	<u> </u>	<u> </u>
Base	<u>38.0958</u>	<u>0.00380958</u>

TABLE III. - Continued.

MODEL COMPONENT: F5 Body Flap

GENERAL DESCRIPTION: 3 Configuration per Rockwell Lines VL70-000139

Scale Model = .015

DRAWING NUMBER

VL70-000139

DIMENSION:

FULL SCALE

MODEL SCALE

Length - in

84.70

1.2705

Max Width - in

267.6

4.0140

Ma. Depth

Fineness Ratio

Area - Ft²

Max Cross-Sectional

Platform

Wetted

Base

142.5

0.03207

38.0958

0.00857

TABLE III. - Continued.

Model Component: OMS pod (M₄)
 General Description: Configuration 3A lightweight orbiter orbital
maneuvering subsystem pod
 Model scale = 0.010 Model Drawing No. SS-A00062
 Drawing Number: VL70-000139B

Dimensions:	<u>Full-Scale</u>	<u>Model Scale</u>
Length - in.	<u>346.0</u>	<u>3.460</u>
Max width - in.	<u>108.0</u>	<u>1.080</u>
Max depth - in.	<u>113.0</u>	<u>1.130</u>
Fineness ratio	_____	_____
Area - ft ²		
Max cross-sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. - Continued.

Model Component: OMS pod (M₄)

General Description: Basic configuration 3A OMS pods

Note: M₄ identical to M₃ of configuration 2A except intersection to body

Model scale = 0.015

Drawing Number: VL70-000139B

<u>Dimensions:</u>	<u>Full-Scale</u>	<u>Model Scale</u>
Length - in.	<u>346.0</u>	<u>5.1900</u>
Max width - in.	<u>108.0</u>	<u>1.620</u>
Max depth - in.	<u>113.0</u>	<u>1.695</u>
Fineness ratio	<u> </u>	<u> </u>
Area - ft ²	<u> </u>	<u> </u>
Max cross-sectional	<u> </u>	<u> </u>
Platform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N8

GENERAL DESCRIPTION: Basic O/S Nozzle of Configuration 2A per Rockwell Lines
VL70-008306 and VL70-000089"B". Intersection of nozzle exit plane and
nozzle centerline at $X_0 = 1570.75$, $Y_0 = +99.25$, $Z_0 = 507.25$

MODEL SCALE = 0.010

DRAWING NO. VL70-008306, VL70-000089"B", SS-A00092

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length ~ in.		
Gimbal Point to Exit Plane	_____	_____
Throat to Exit Plane	_____	_____
Diameter ~ in.		
Exit	<u>50.00</u>	<u>0.500</u>
Throat	<u>N/A</u>	<u>N/A</u>
Inlet	<u>28.00</u>	<u>0.280</u>
Area ~ ft ² ./Nozzle		
Exit	<u>13.635</u>	<u>0.00136</u>
Throat	_____	_____
Gimbal Point (station) ~ in.		
X	<u>1578.0</u>	<u>15.180</u>
Y	<u>+88.0</u>	<u>0.880</u>
Z	<u>492.0</u>	<u>4.920</u>
Null Position ~ deg.		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw (Outb'd)	<u>+12°17'</u>	<u>+12°17'</u>

TABLE III. - Continued.

MODEL COMPONENT: NOZZLES - N₈

GENERAL DESCRIPTION: Basic OMS Nozzle of Configuration 2A per Rockwell Lines

VL70-008306 and VL70-000089"B". Intersection of nozzle exit plane and

nozzle centerline at X₀ = 1570.75, Y₀ = +99.25, Z₀ = 507.25

MODEL SCALE = 0.015

DRAWING NO. VL70-008306, VL70-000089"B", SS-AJ0092

<u>DIMENSIONS</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Mach No. _____		
Length - in.	_____	_____
Gimbal Point to Exit Plane	_____	_____
Throat to Exit Plane	_____	_____
Diameter - in.		
Exit	<u>50.00</u>	<u>0.750</u>
Throat	<u>N/A</u>	<u>N/A</u>
Inlet	<u>28.00</u>	<u>.420</u>
Area - ft ./Nozzle		
Exit	<u>13.635</u>	<u>0.00204</u>
Throat	_____	_____
Gimbal Point (station) - in.		
X	<u>1518.0</u>	<u>22.77</u>
Y	<u>+88.0</u>	<u>1.32</u>
Z	<u>492.0 -</u>	<u>7.38</u>
Null Position - deg.		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw (Outb'd)	<u>+12°17'</u>	<u>+12°17'</u>

TABLE III. - Continued.

Model Component: Rudder (R₅)

General Description: Configuration 3A lightweight orbiter rudder

Model scale = 0.010 Model Drawing No. SS-A00062

Drawing Number: VL70-000139B
VL70-000095

Dimensions:	Full-Scale	Model Scale
Area - ft ²	<u>106.38</u>	<u>0.010638</u>
Span (equivalent) - in.	<u>201.0</u>	<u>2.010</u>
Inbd equivalent chord - in.	<u>91.585</u>	<u>0.91585</u>
Outbd equivalent chord - in.	<u>50.833</u>	<u>0.50833</u>
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	<u>0.400</u>	<u>0.400</u>
At outbd equiv chord	<u>0.400</u>	<u>0.400</u>
Sweepback angles - deg		
Leading edge	<u>34.83</u>	<u>34.83</u>
Trailing edge	<u>26.25</u>	<u>26.25</u>
Hinge line	<u>34.83</u>	<u>34.83</u>
Area moment (normal to hinge line) - ft ³	<u>526.13</u>	<u>0.00053</u>

TABLE III. - Continued.

Model Component: Rudder (R5)

General Description: Rudder for vertical stabilizer V₇

Model scale = 0.015

Drawing Number: VL70-000095

Dimensions:	Full-Scale	Model Scale
Area - ft ²	106.38	0.024
Span (equivalent) - in.	201.0	3.015
Inbd equivalent chord - in.	91.585	1.374
Outbd equivalent chord - in.	50.833	0.762
Ratio movable surface chord/ total surface chord		
At inbd equiv chord	0.400	0.400
At outbd equiv chord	0.400	0.400
Sweepback angles - deg		
Leading edge	34.83	34.83
Trailing edge	26.25	26.25
Hinge line	34.83	34.83
Area moment (normal to hinge line) - ft ³	526.125	0.0018

TABLE III. - Continued.

MODEL COMPONENT: VERTICAL - V

GENERAL DESCRIPTION: One complete vertical tri-jet double-delta airfoil with rounded leading edge.

NOTE: Same as V5, but with manipulator housing removed.

Model Scale = .010

DRAWING NUMBER: VI.70-000139

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo) Ft ²	425.92	0.04259
Planform		
Span (Theo) In	311.82	3.1572
Aspect Ratio	3.035	1.070
Rate of Taper	0.937	0.937
Taper Ratio	0.434	.504
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.269	26.269
0.25 Element Line	41.350	41.350
Chords:		
Root (Theo) WP	263.50	2.6850
Tip (Theo) WP	100.00	1.0847
MAC	100.00	1.9981
Fus. Sta. of .25 MAC	1463.00	14.6350
W. P. of .25 MAC	635.500	6.35522
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.500	14.500
Leading Edge Radius	2.0	0.020
Void Area - Ft ²	13.77	0.00132
Blanketed Area	0.00	0.00

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TABLE III. - Continued.

Model Component: Vertical tail (V₇)—lightweight orbiter configuration

General Description: Basic configuration 3A centerline vertical tail,
double-wedge airfoil with rounded leading edge

Model scale = 0.015

Drawing Number: VL70-000139, VL70-000095

Dimensions:	<u>Full-Scale</u>	<u>Model Scale</u>
Total Data		
Planform area (theo) - ft ²	425.92	0.09583
Span (theo) - in.	315.72	4.73560
Aspect ratio	1.675	1.675
Rate of taper	0.507	0.507
Taper ratio	0.404	0.404
Sweepback angles - deg		
Leading edge	45.000	45.000
Trailing edge	26.249	26.249
0.25 element line	41.130	41.130
Chords - in.		
Root (theo) WP	268.50	4.02750
Tip (theo) WP	108.47	1.62705
MAC	199.81	2.99715
Fus sta of 0.25 MAC	1463.50	21.9525
WP of 0.25 MAC	635.522	9.53283
BL of 0.25 MAC	0.0	0.00
Airfoil section		
Leading wedge angle - deg	10.000	10.000
Trailing wedge angle - deg	14.920	14.920
Leading edge radius - in.	2.00	0.0300
Void area - ft ²	13.17	0.00296
Blanketed area - ft ²		

TABLE III. - Contin: 1.

MODEL COMPONENT: <u>WING-W103</u>		
GENERAL DESCRIPTION: <u>Configuration 3 per Rockwell Lines VL70-0001394</u>		
NOTE: <u>Same as W103, except cuff, airfoil and incidence angle.</u>		
Model Scale = <u>.010</u>		
TEST NO.	DWG. NO. <u>VL70-0001394</u>	
<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) Ft ²	2690.00	0.2690
Planform	936.68	9.3668
Span (Theo) In.	2.265	2.265
Aspect Ratio	1.177	1.177
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees (@ TE of Elevon)	0.500	0.500
Incidence Angle, degrees	+3.000	+3.000
Aerodynamic Twist, degrees	45.000	45.000
Sweep Back Angles, degrees	-10.24	-10.24
Leading Edge	35.209	35.209
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Theo) B.P.O.O.	689.24	6.8924
Tip, (Theo) B.P.	137.85	1.3785
MAC	474.81	4.7481
Fus. Sta. of .25 MAC	1136.89	11.3689
W.P. of .25 MAC	299.20	2.9920
B.L. of .25 MAC	182.13	1.8213
<u>EXPOSED DATA</u>		
Area (Theo) Ft ²	1752.29	0.17523
Span, (Theo) In. BP108	720.68	7.2068
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	5.6240
Tip 1.00 $\frac{b}{2}$	137.85	1.3785
MAC	393.03	3.9303
Fus. Sta. of .25 MAC	1185.31	11.8531
W.P. of .25 MAC	300.20	3.0020
B.L. of .25 MAC	251.76	2.5176
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.10	0.10
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft ²	118.333	0.011833
Leading Edge Intersects Fus M. L. @ Sta	500	5.00
Leading Edge Intersects Wing @ Sta	1083.4	10.834

TABLE III. - Concluded.

Model Component: Wing (W111)—new lightweight orbiter
 General Description: Basic configuration 3A wing
 Note: Same as W103 except cuff, airfoil, and angle of incidence. Model scale = 0.015
 Test No. _____ Drawing No. VL70-000139B

Dimensions:	Full-Scale	Model Scale
Total Data		
Planform area (theo) - ft ²	2690.0	0.60525
Span (theo) - in.	936.68	14.05020
Aspect ratio	2.265	2.265
Rate of taper	1.177	1.177
Taper ratio	0.200	0.200
Dihedral angle, - deg	3.500	3.500
Incidence angle, - deg	0.500	0.500
Aerodynamic twist, - deg	+3.000	+3.000
Sweepback angles, - deg		
Leading edge	45.000	45.000
Trailing edge	-10.24	-10.24
0.25 element line	35.209	35.209
Chords - in.		
Root (theo) at BP 0.0	689.24	10.33860
Tip (theo) at BP 468.341	137.85	2.06775
MAC	474.81	7.12215
Fus sta of 0.25 MAC	1136.89	17.05335
WP of 0.25 MAC	295.70	4.435
BL of 0.25 MAC	182.13	2.7195
Exposed Data		
Area (theo) - ft ²	1752.29	0.39426
Span (theo) - in. (BP 108.0 to 468.341)	720.68	10.81020
Aspect ratio	2.058	2.058
Taper ratio	0.2451	0.2451
Chords - in.		
Root at BP 108.0	562.10	8.4360
Tip at $1.00 \frac{b}{2}$	137.85	2.06775
MAC	393.03	5.89545
Fus sta of 0.25 MAC	1185.31	17.77965
WP of 0.25 MAC	296.70	4.451
BL of 0.25 MAC	251.76	3.7764
Airfoil section (Rockwell mod NASA XXXX-64)		
Percent thickness at $\frac{b}{2}$	0.10	0.10
Percent thickness at $1.0 \frac{b}{2}$	0.12	0.12
Data for 1 of 2 sides		
Leading edge cuff		
Planform area - ft ²	118.333	0.02662
Leading edge intersects fus ML at sta - in.	500	7.5000
Leading edge intersects wing at sta - in.	1083.5	16.2510

Notes:

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

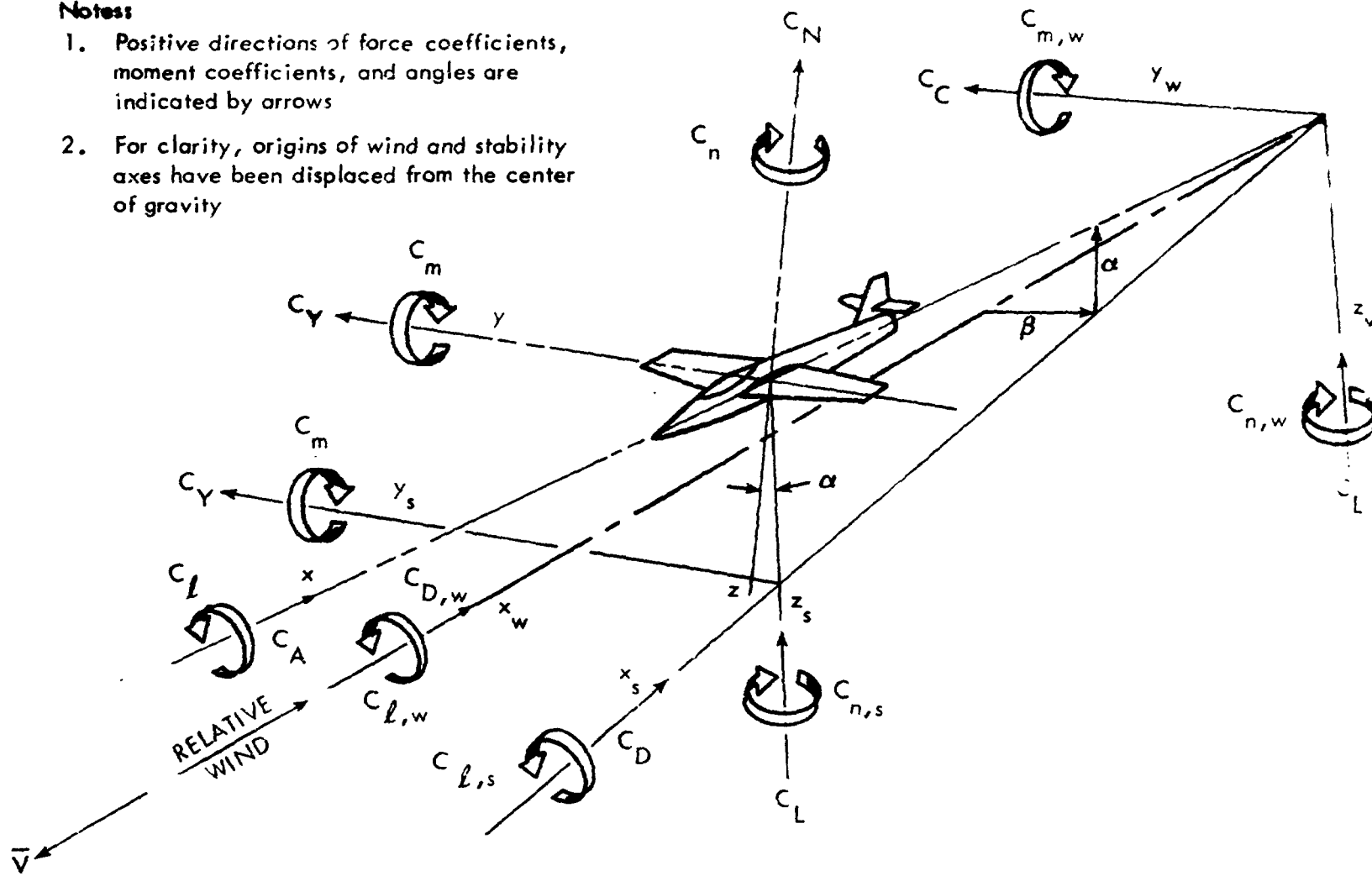
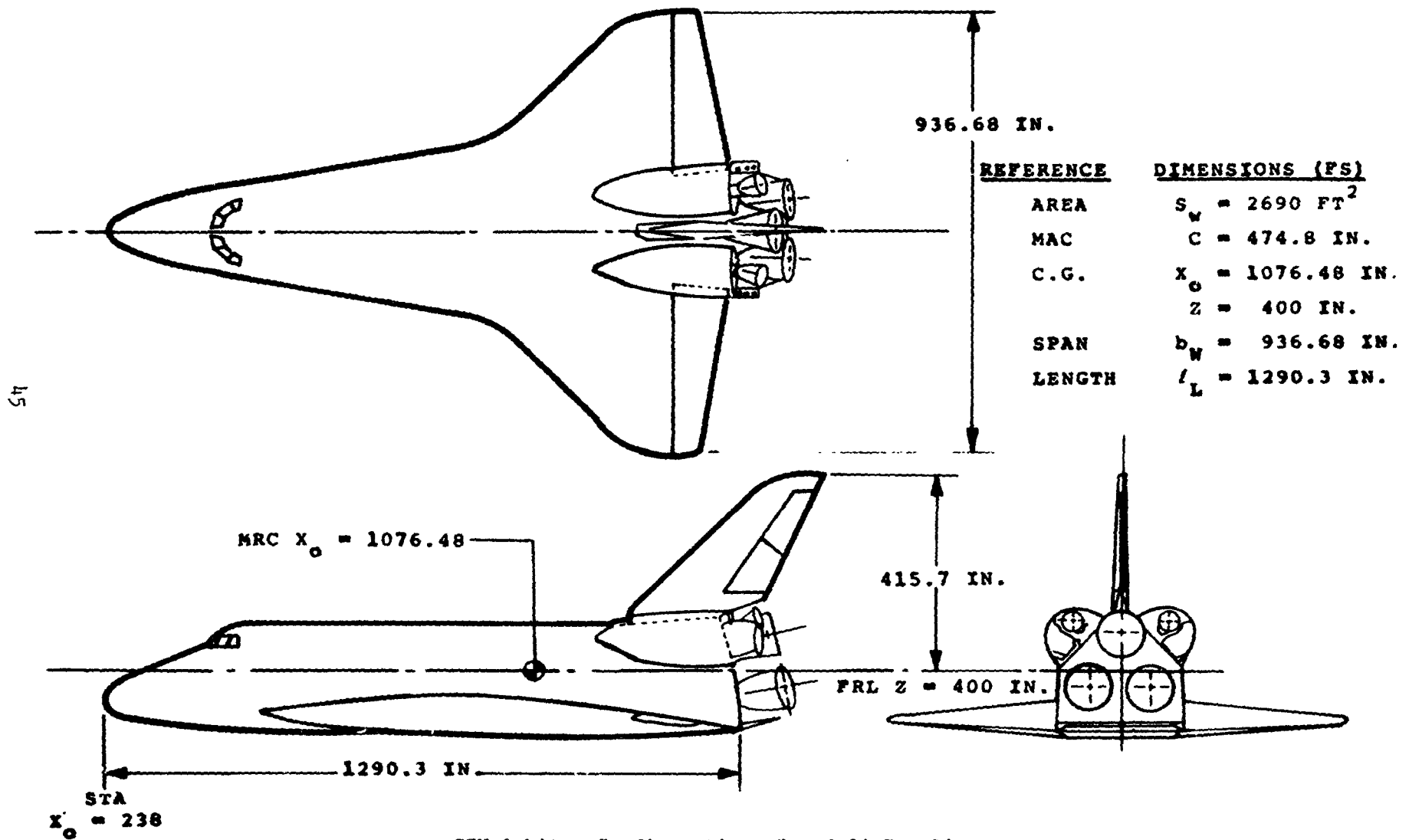
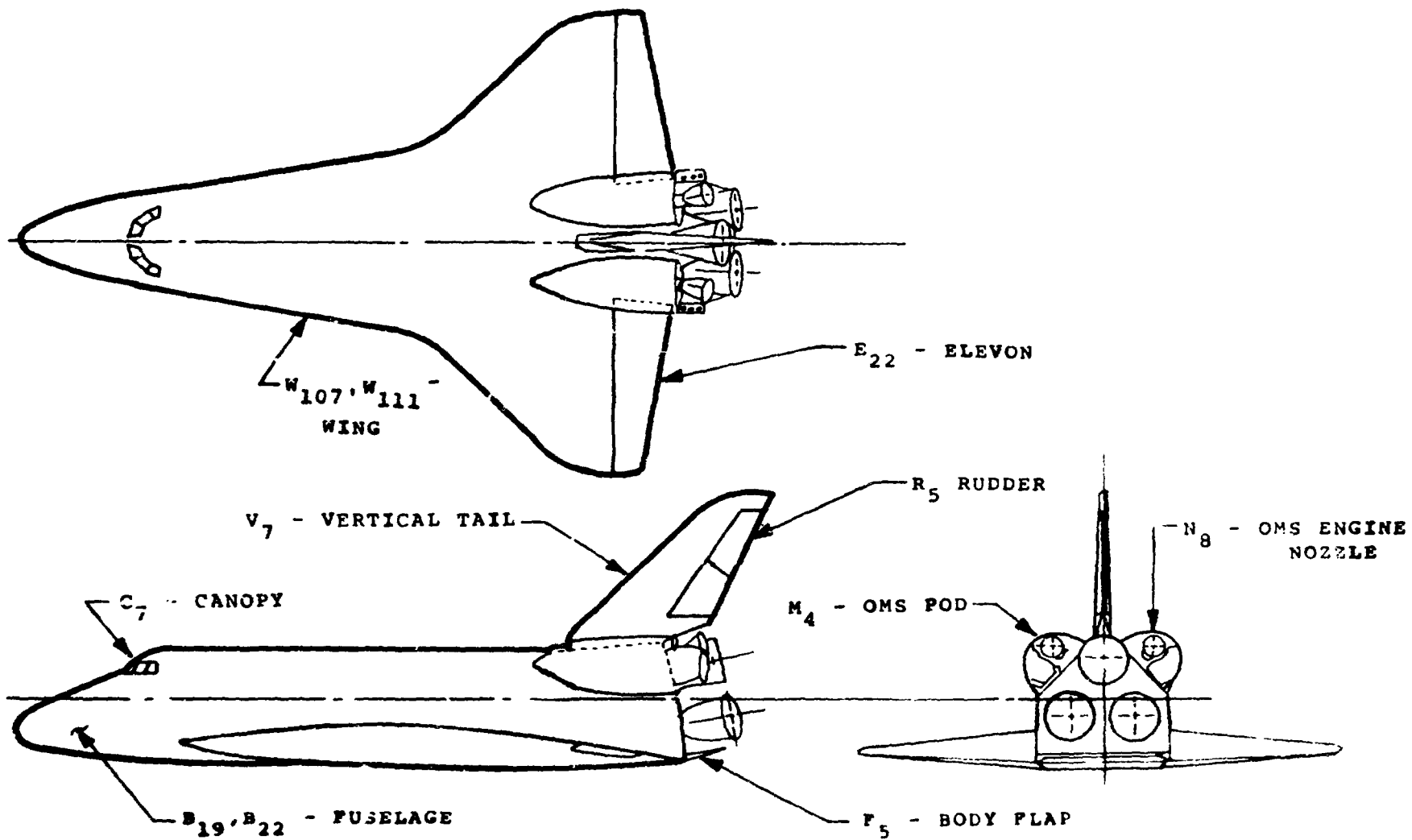


Figure 1. - Axis Systems.



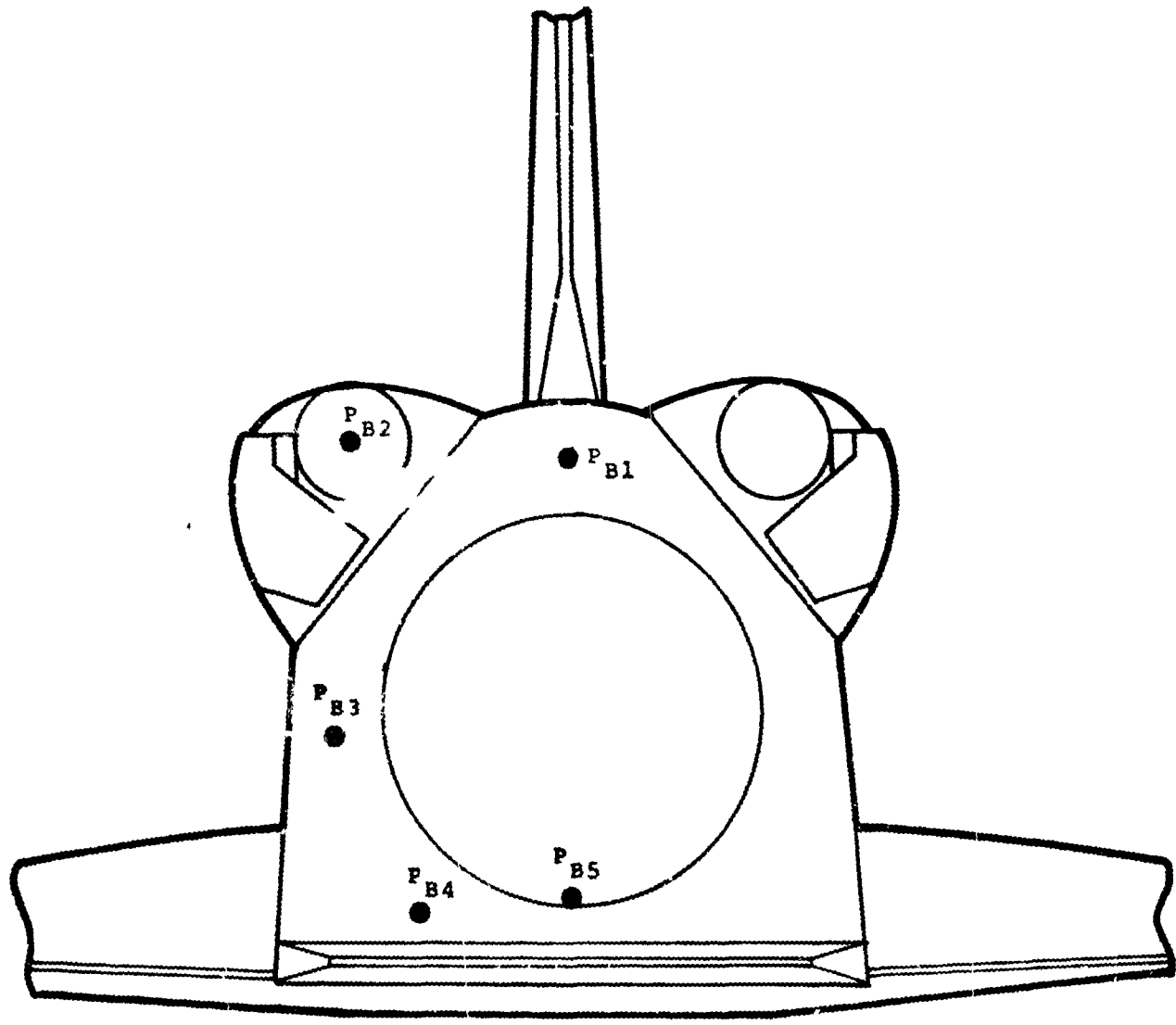
a. SSV Orbiter Configurations 3 and 3A Baseline.

Figure 2. - Model Sketches.



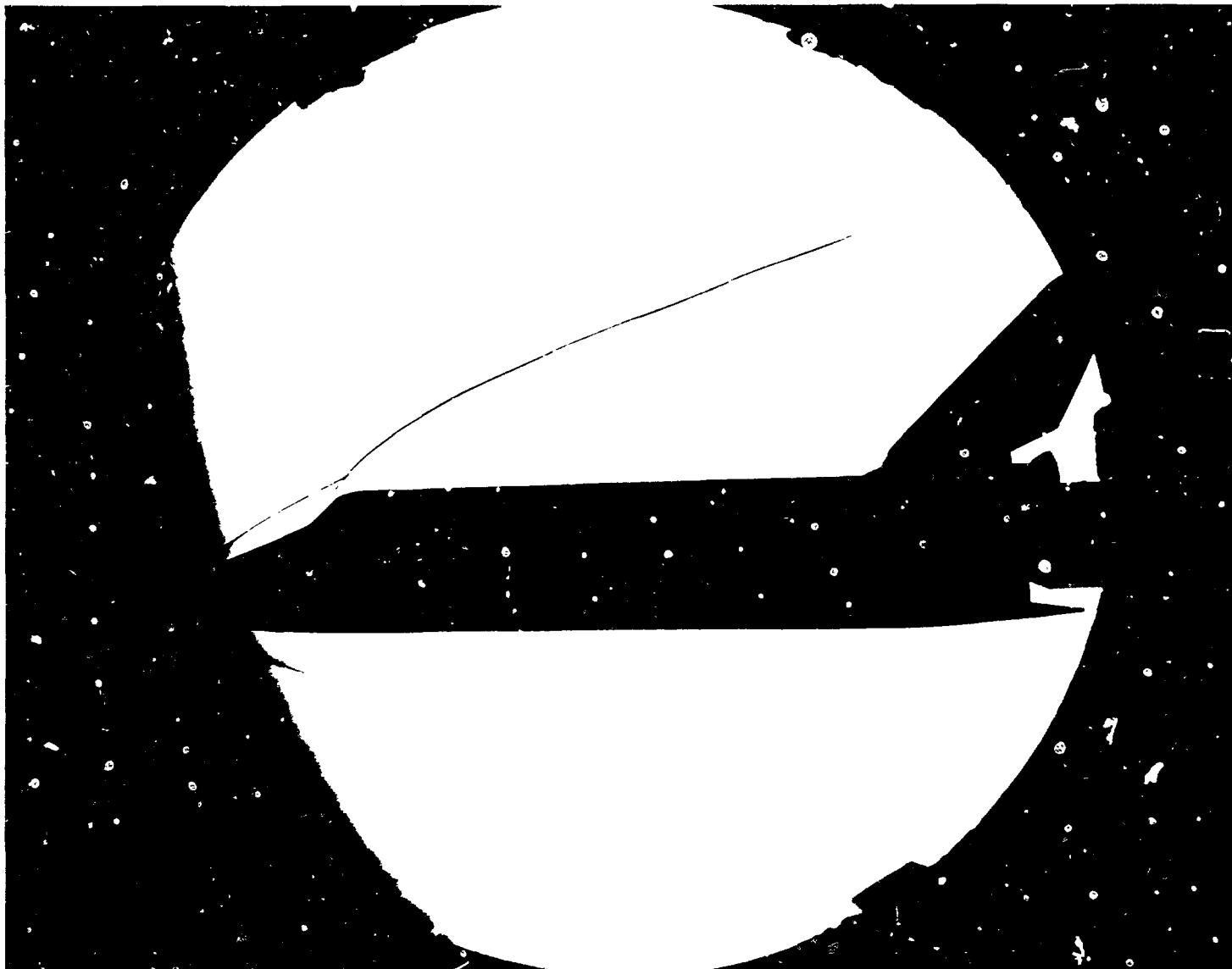
b. SSV Orbiter Configuration 3 and 3A Nomenclature.

Figure 2. - Continued.



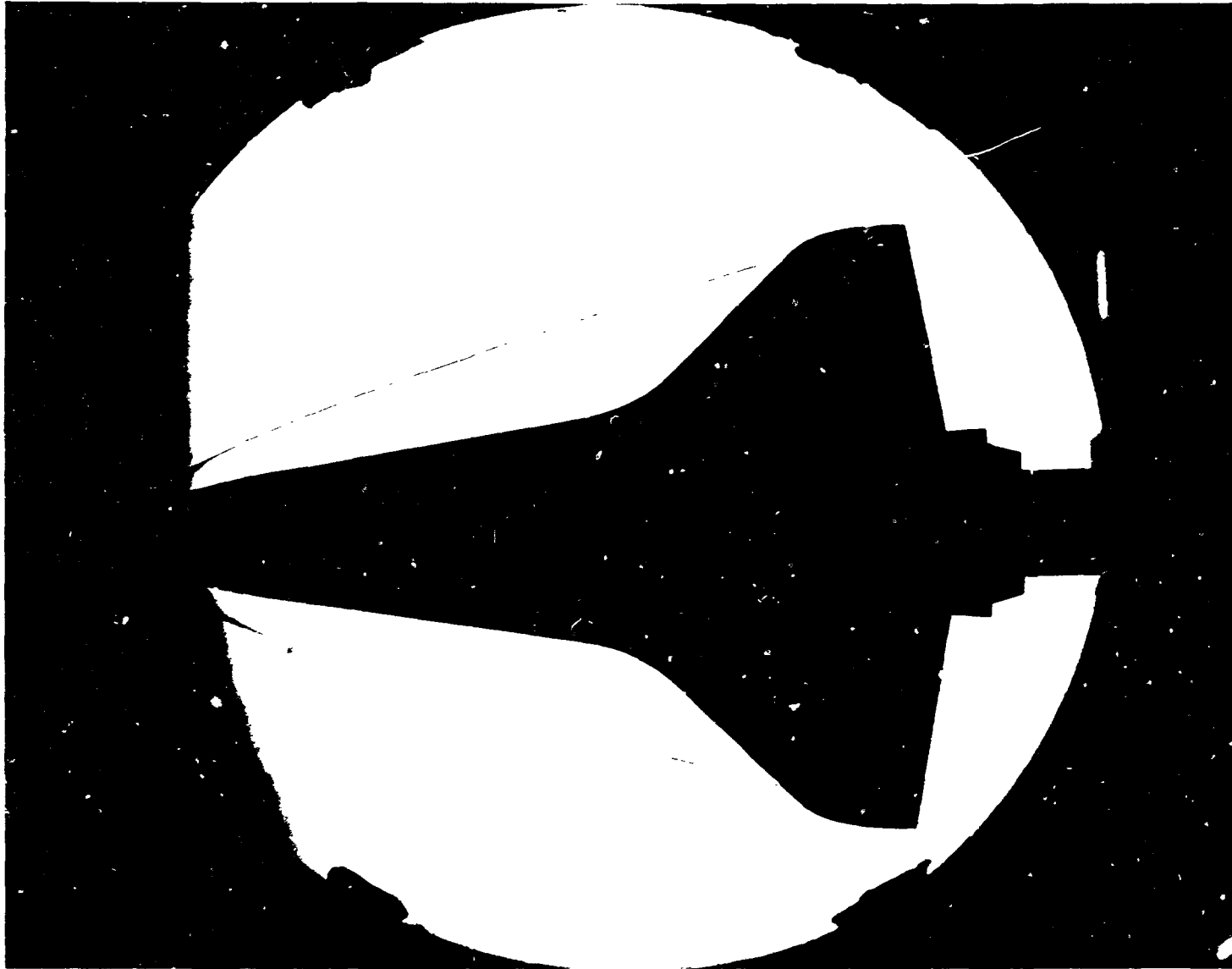
c. Base Pressure Tap Locations.

Figure 2. - Concluded.



a. Side View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.

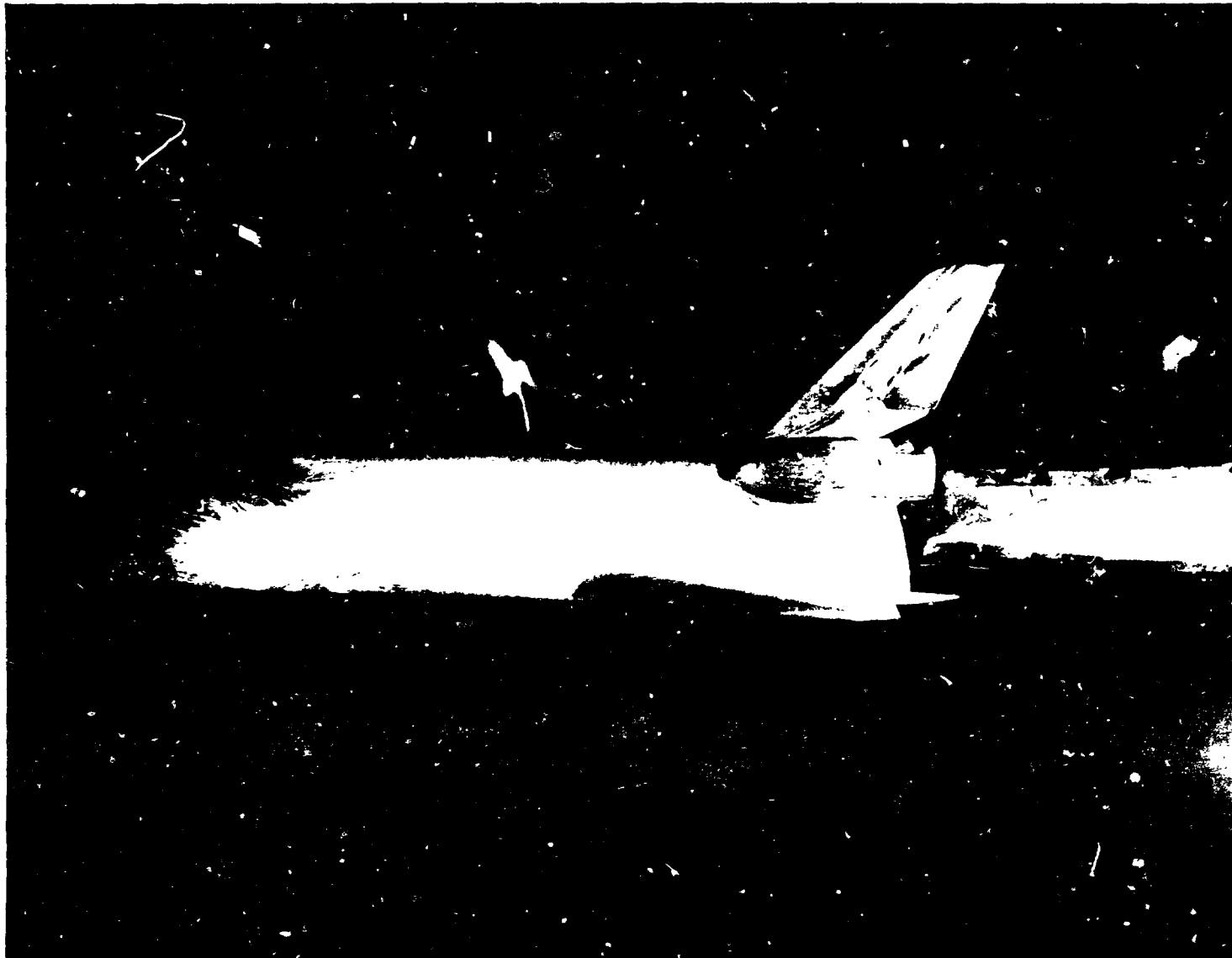
Figure 3. - Model Photographs.



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b. Plan View Shadowgraph at Mach 5 and 0 Degrees Angle of Attack.

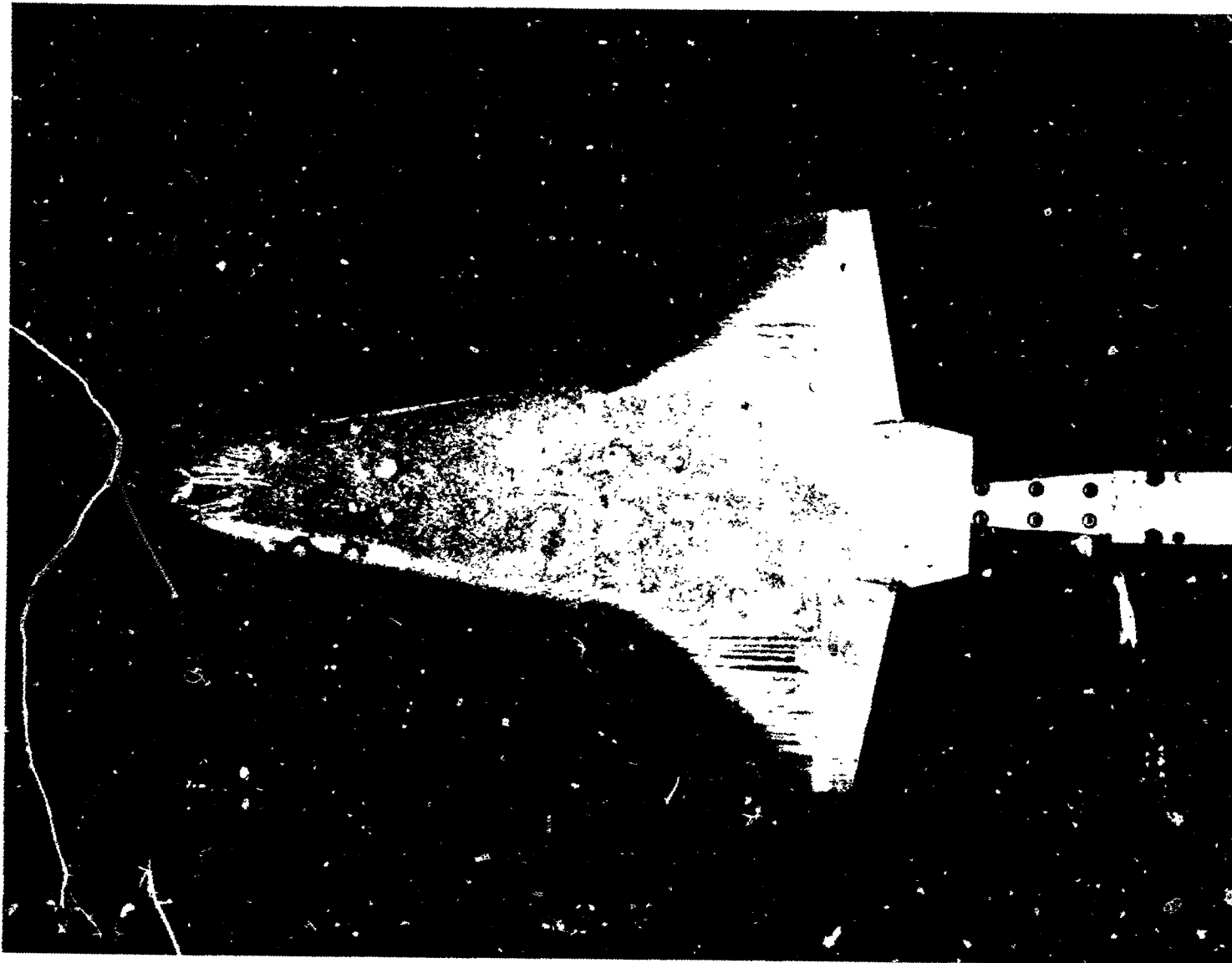
Figure 3. - Continued.



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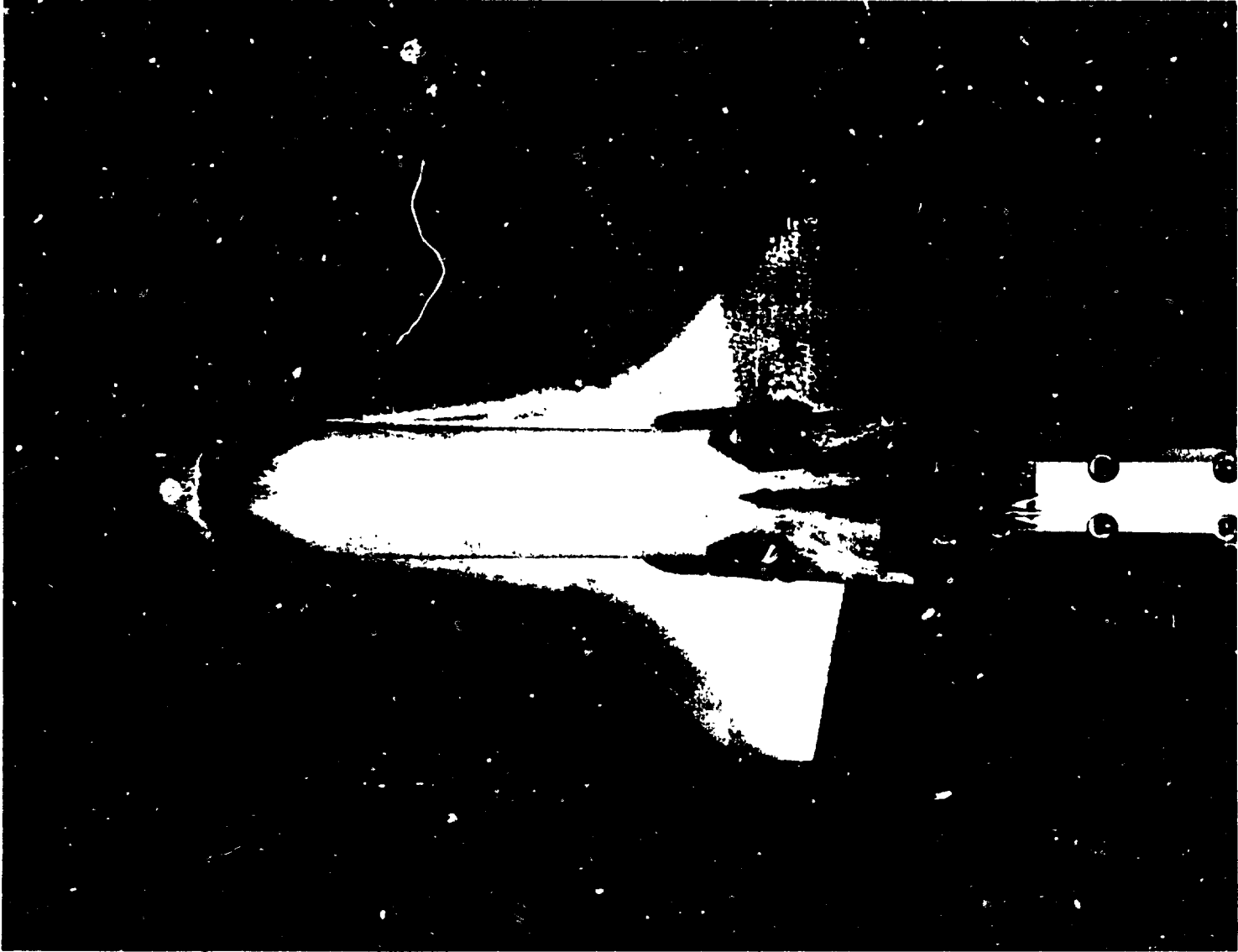
c. Side View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



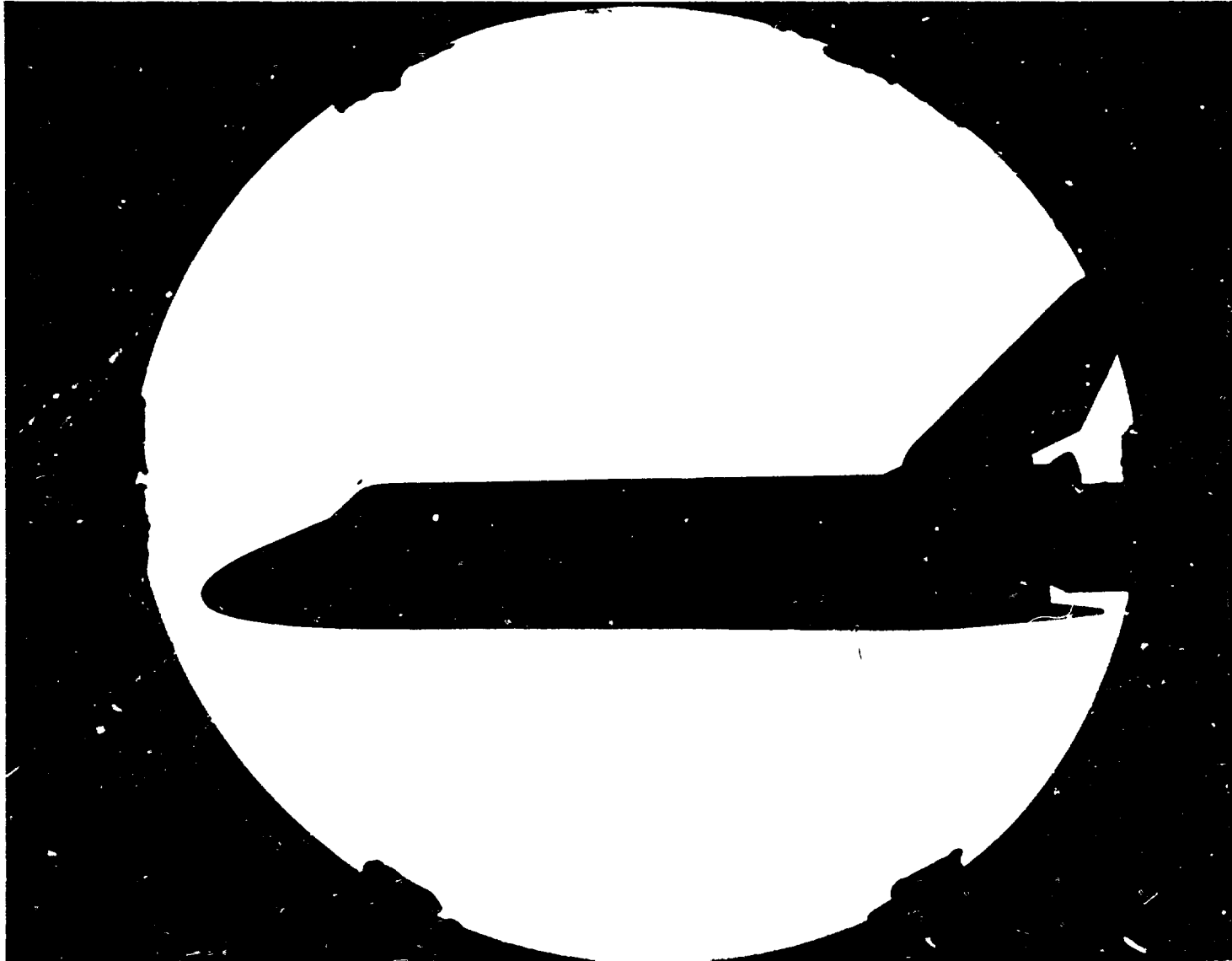
d. Bottom view Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



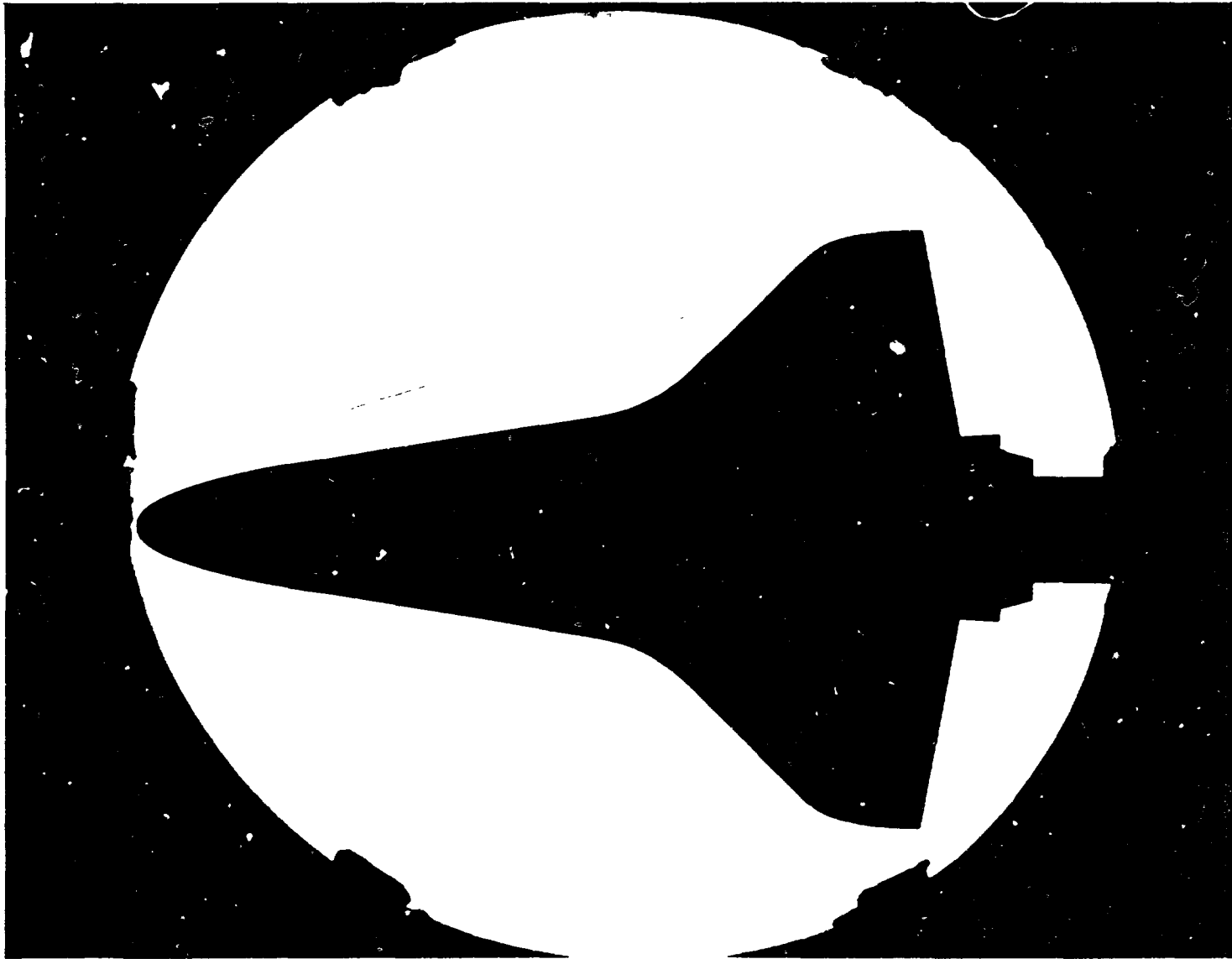
e. Top View Oilflow Photograph at Mach 5 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



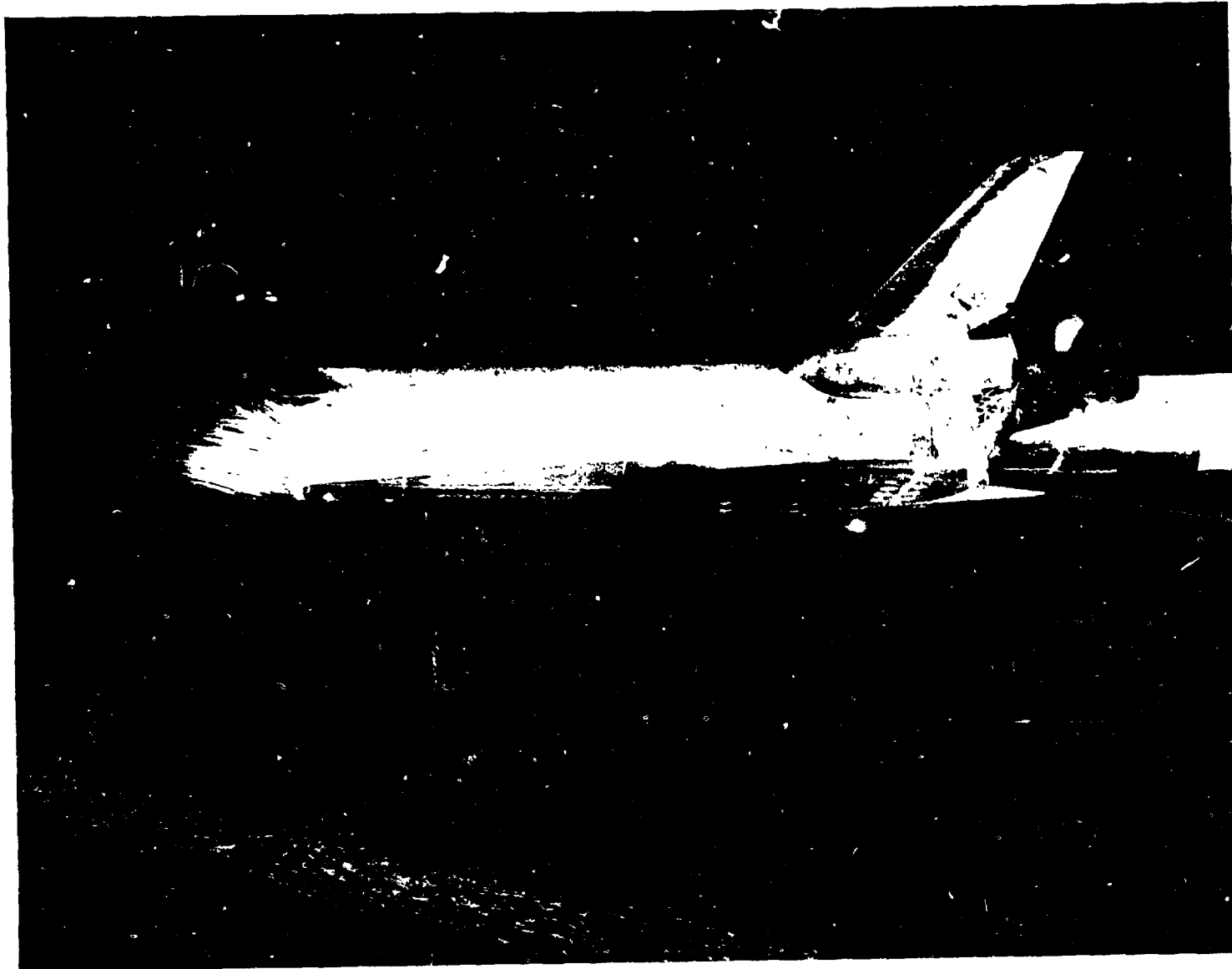
f. Side View Shadowgraph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



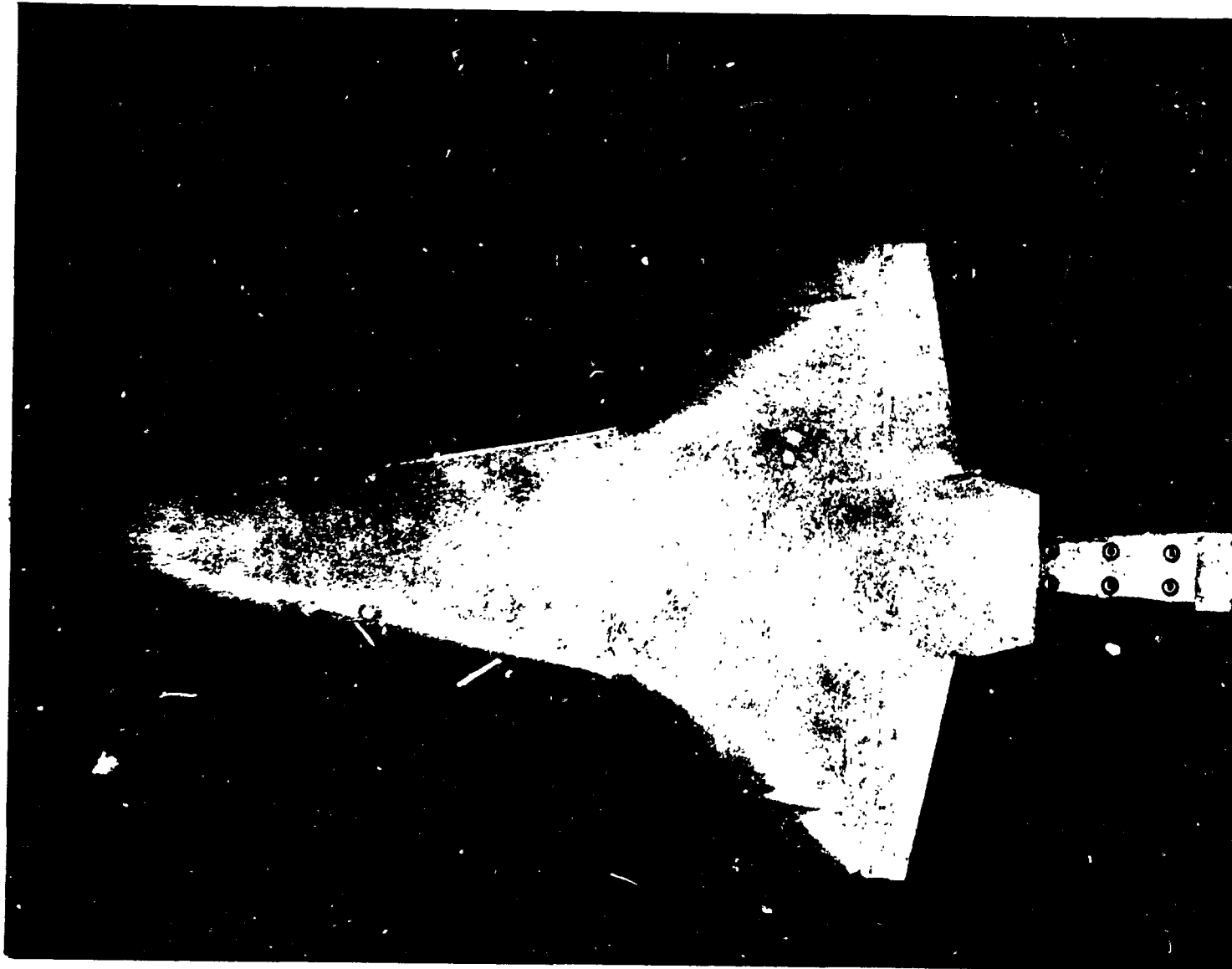
g. Plan View Shadowgraph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



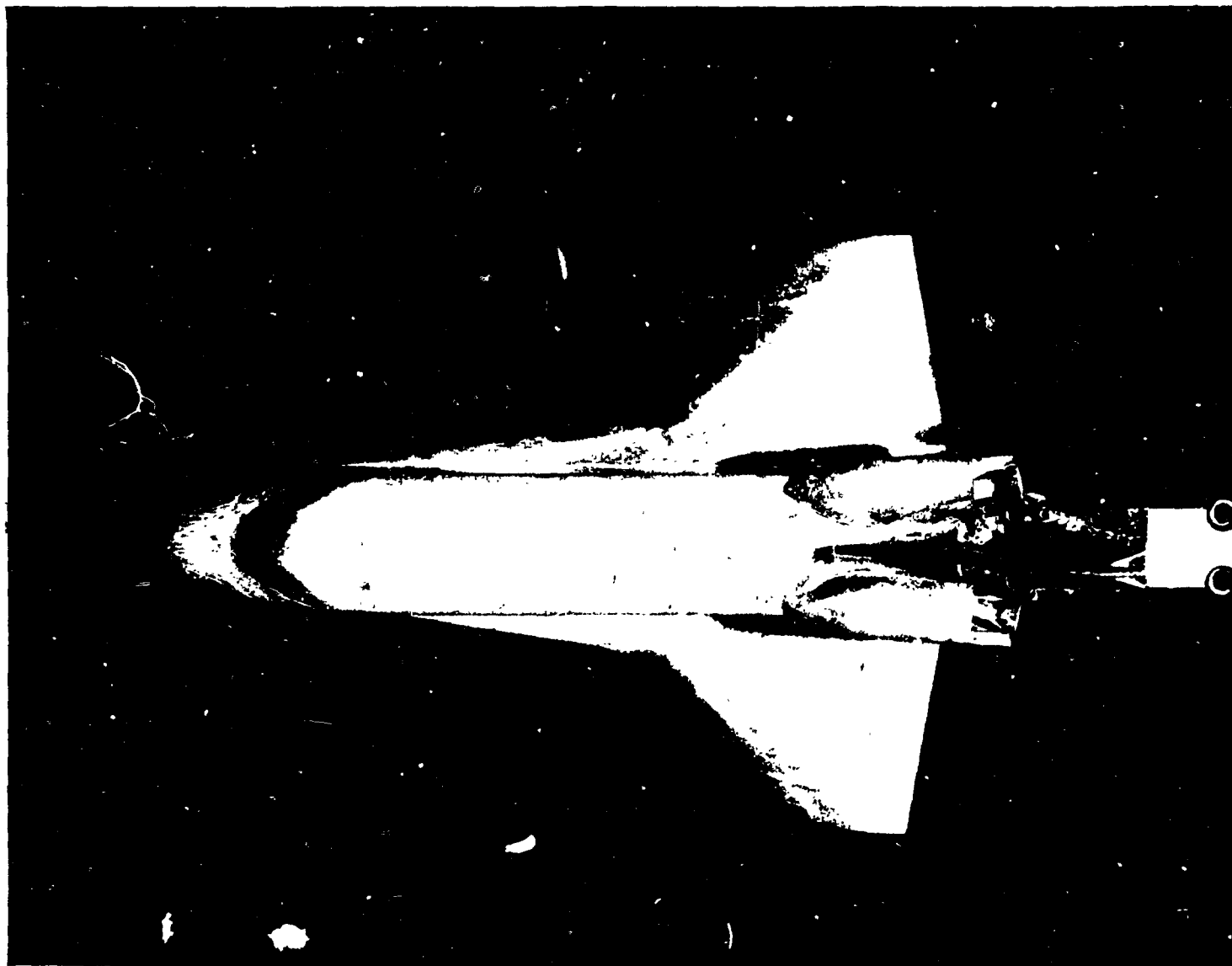
h. Side View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



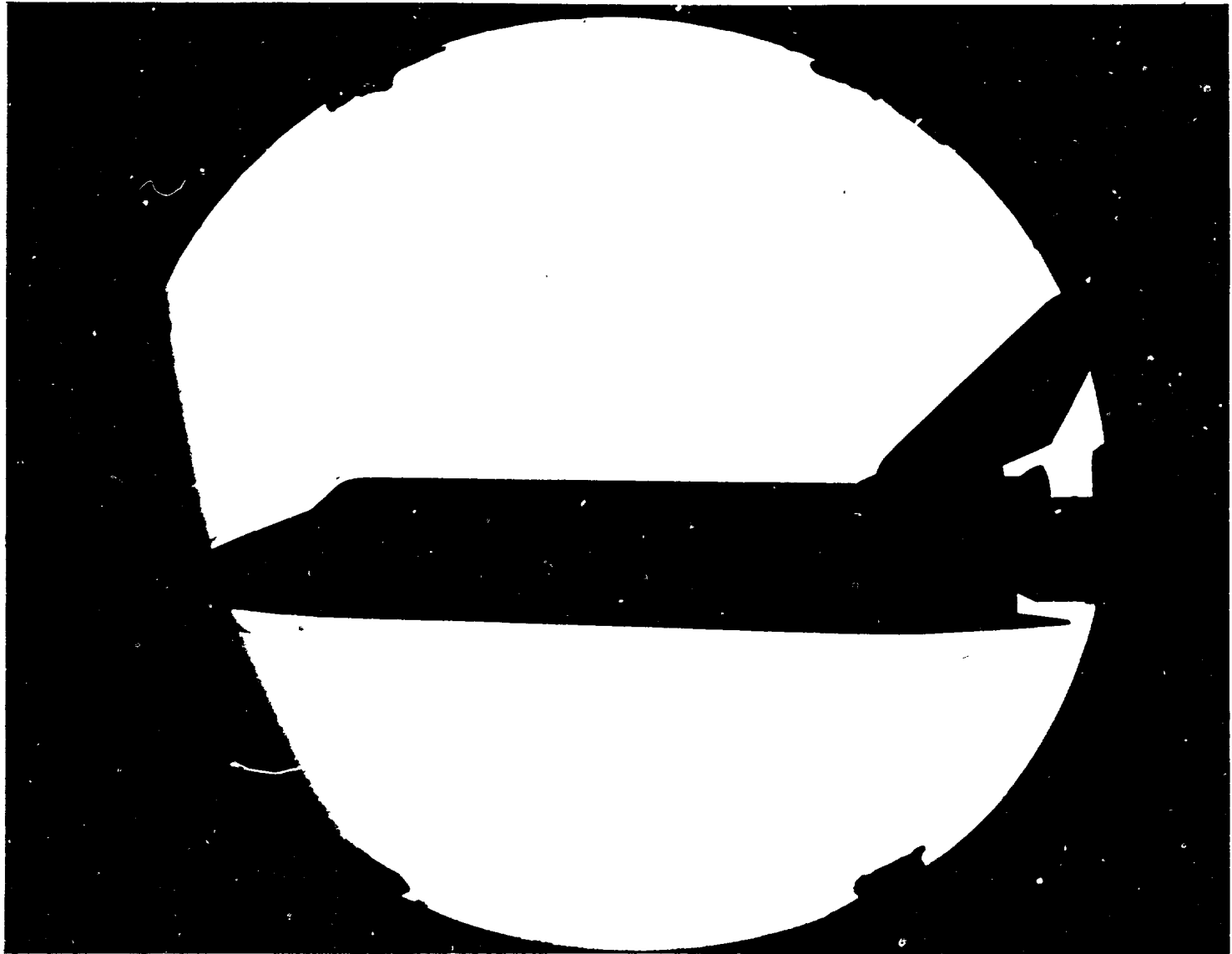
i. Bottom Side Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.

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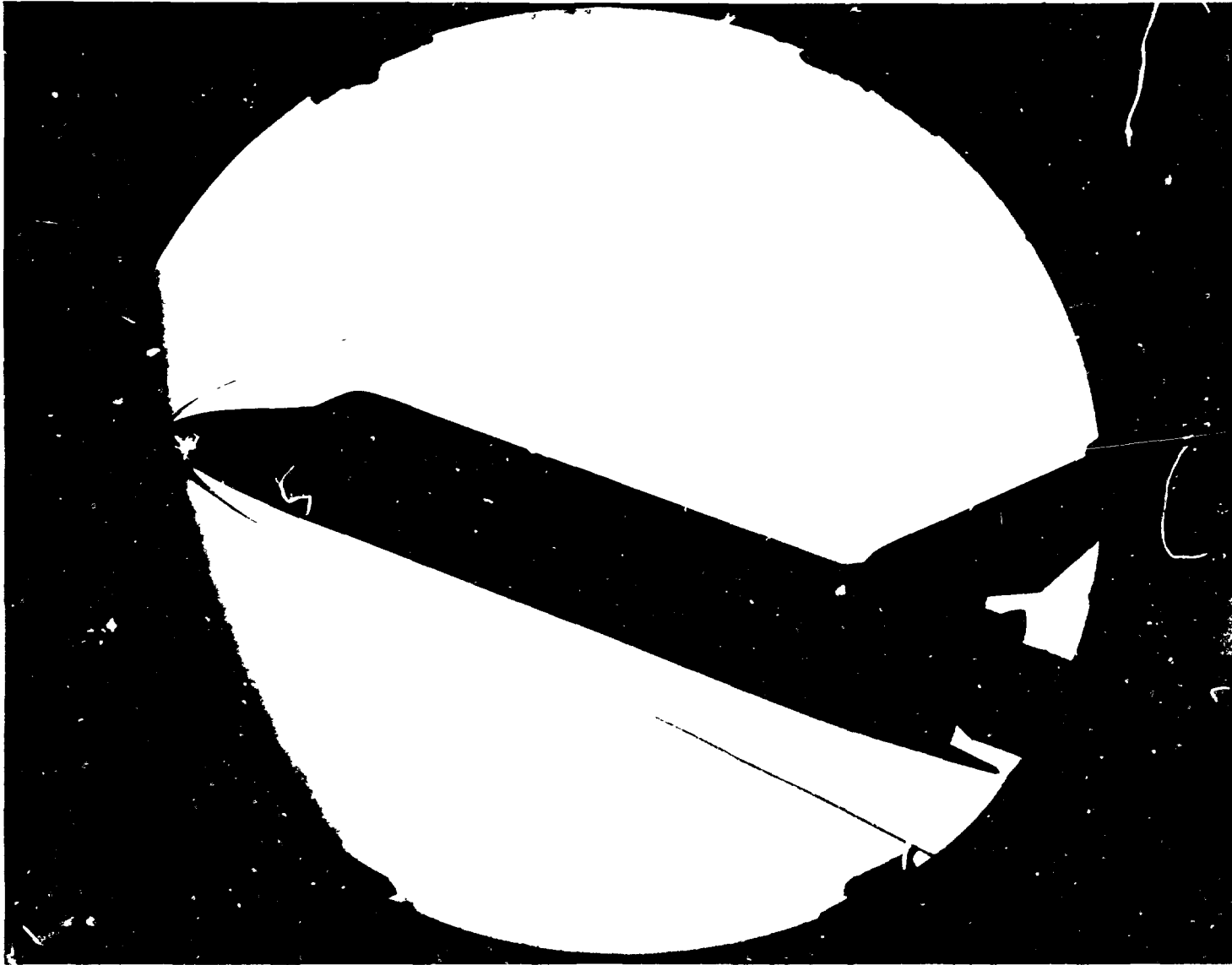
j. Top View Oilflow Photograph at Mach 7 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



k. Side View Shadowgraph at Mach 10 and 0 Degrees Angle of Attack.

Figure 3. - Continued.



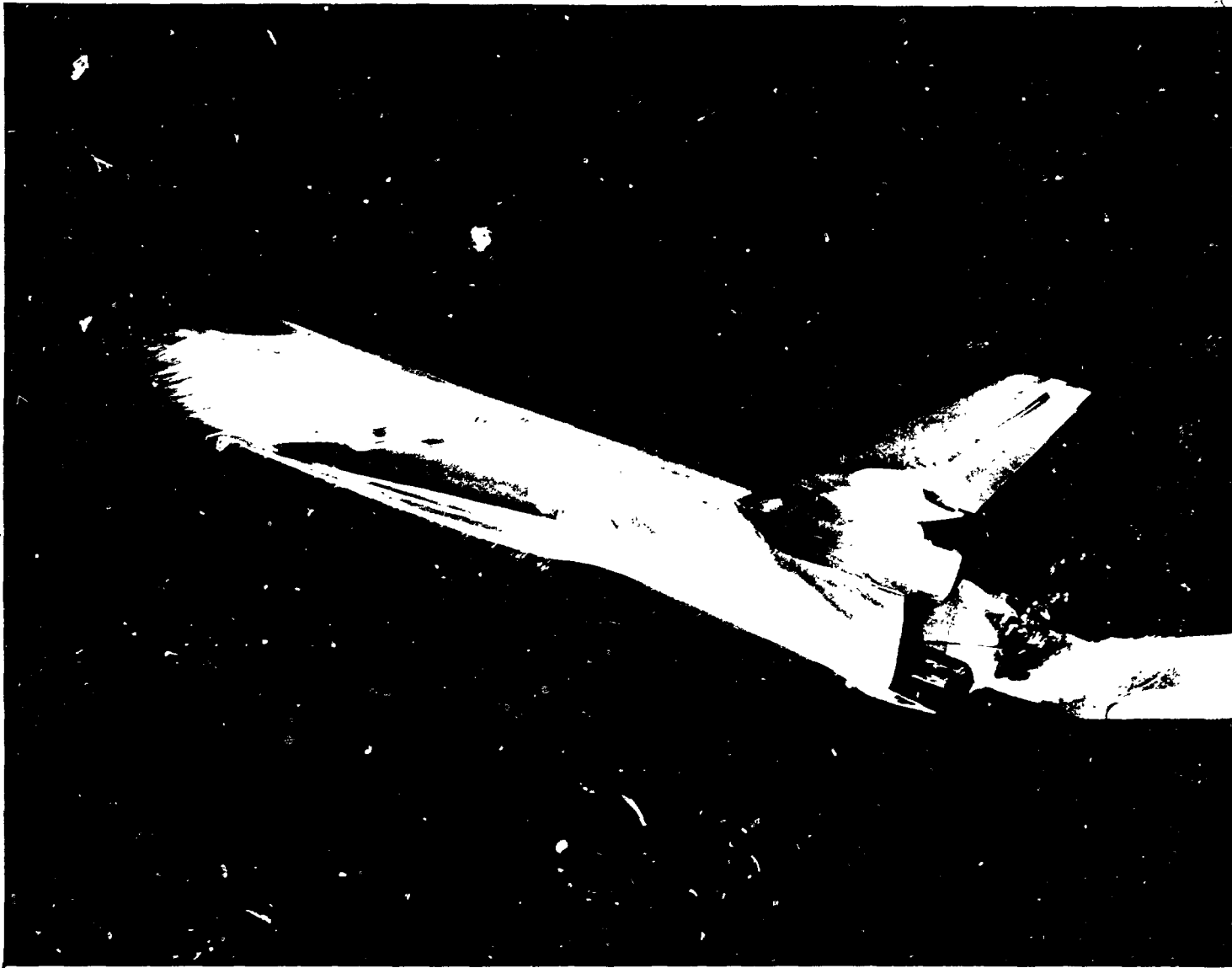
1. Side View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



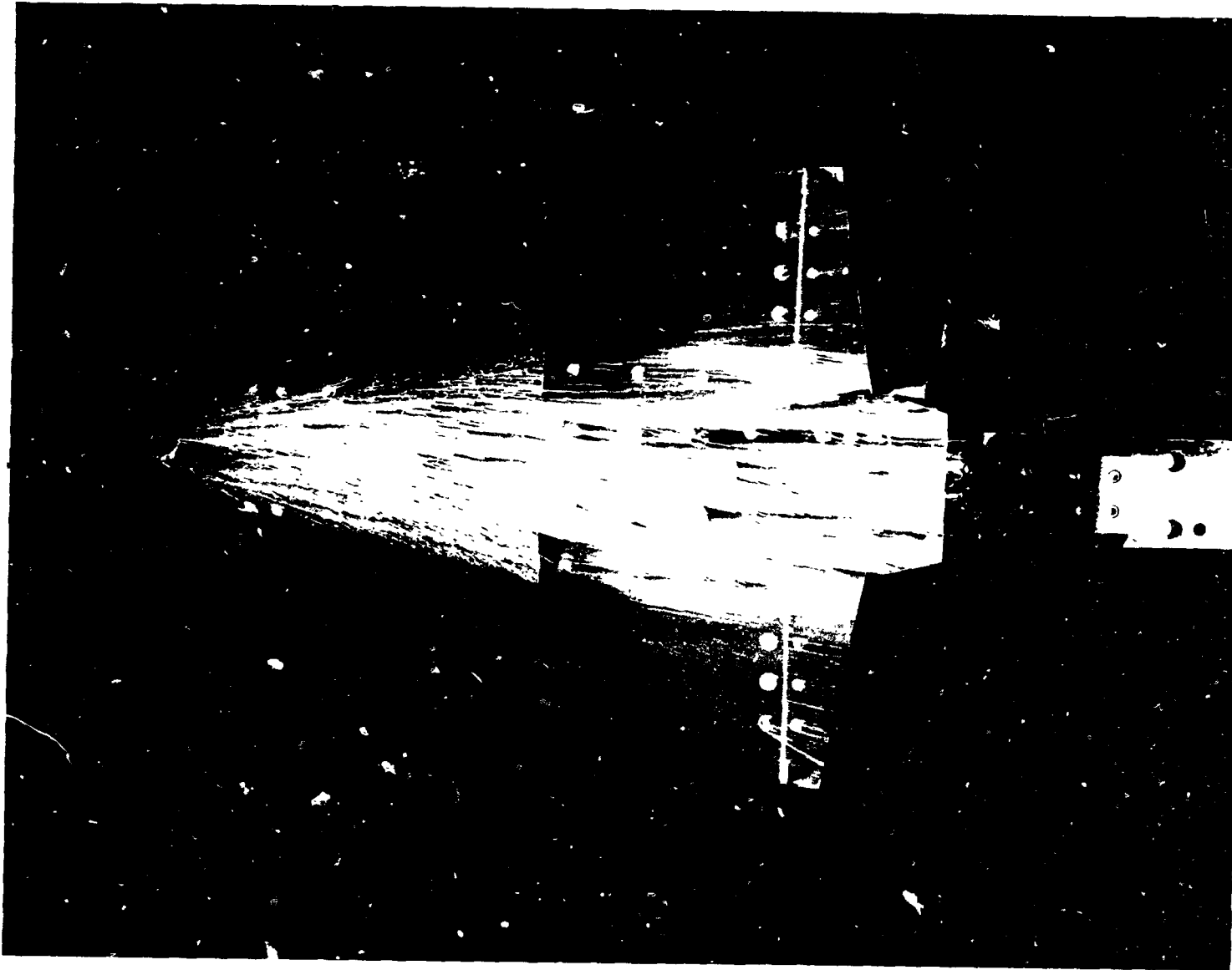
m. Plan View Shadowgraph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



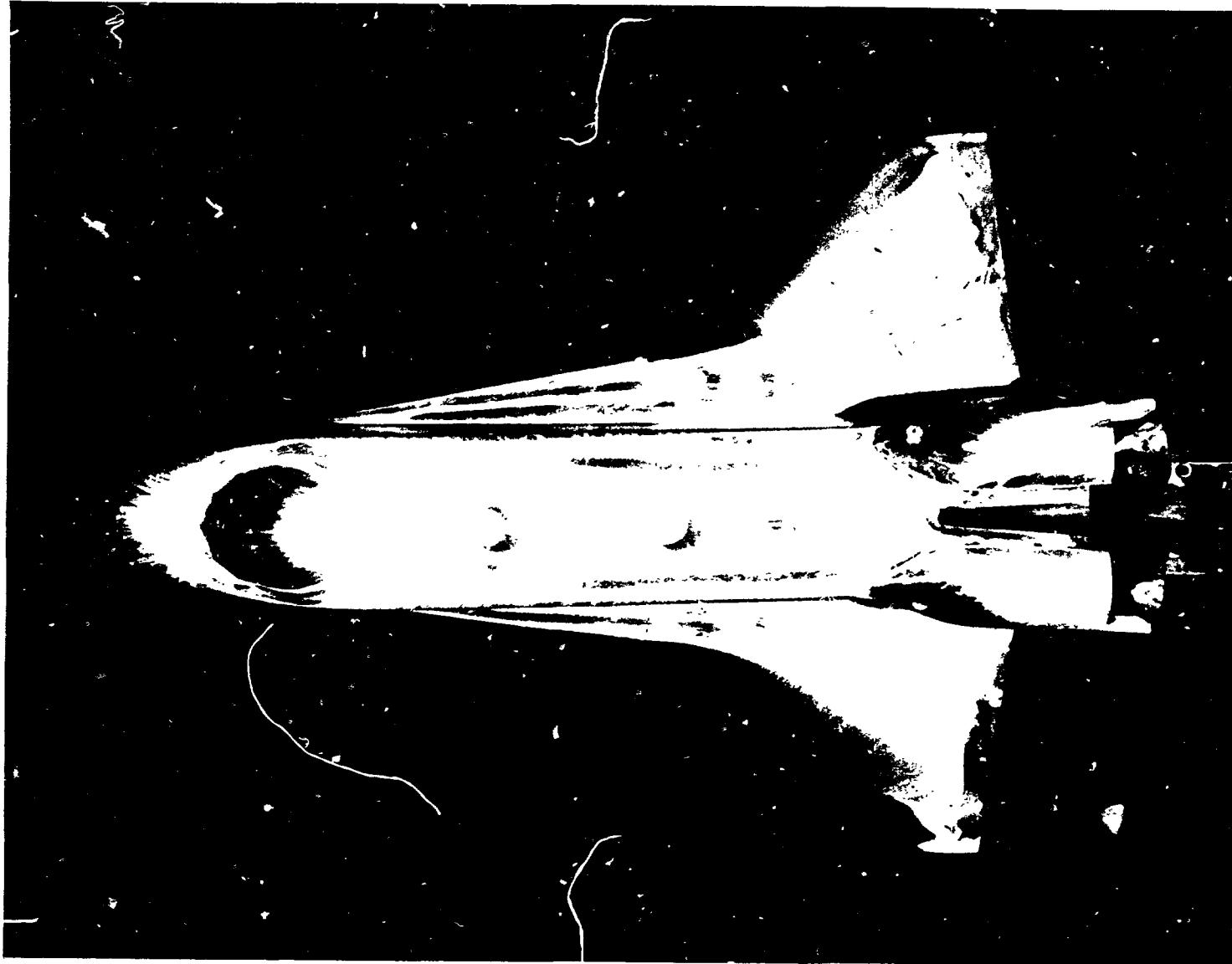
n. Side View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



c. Bottom View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

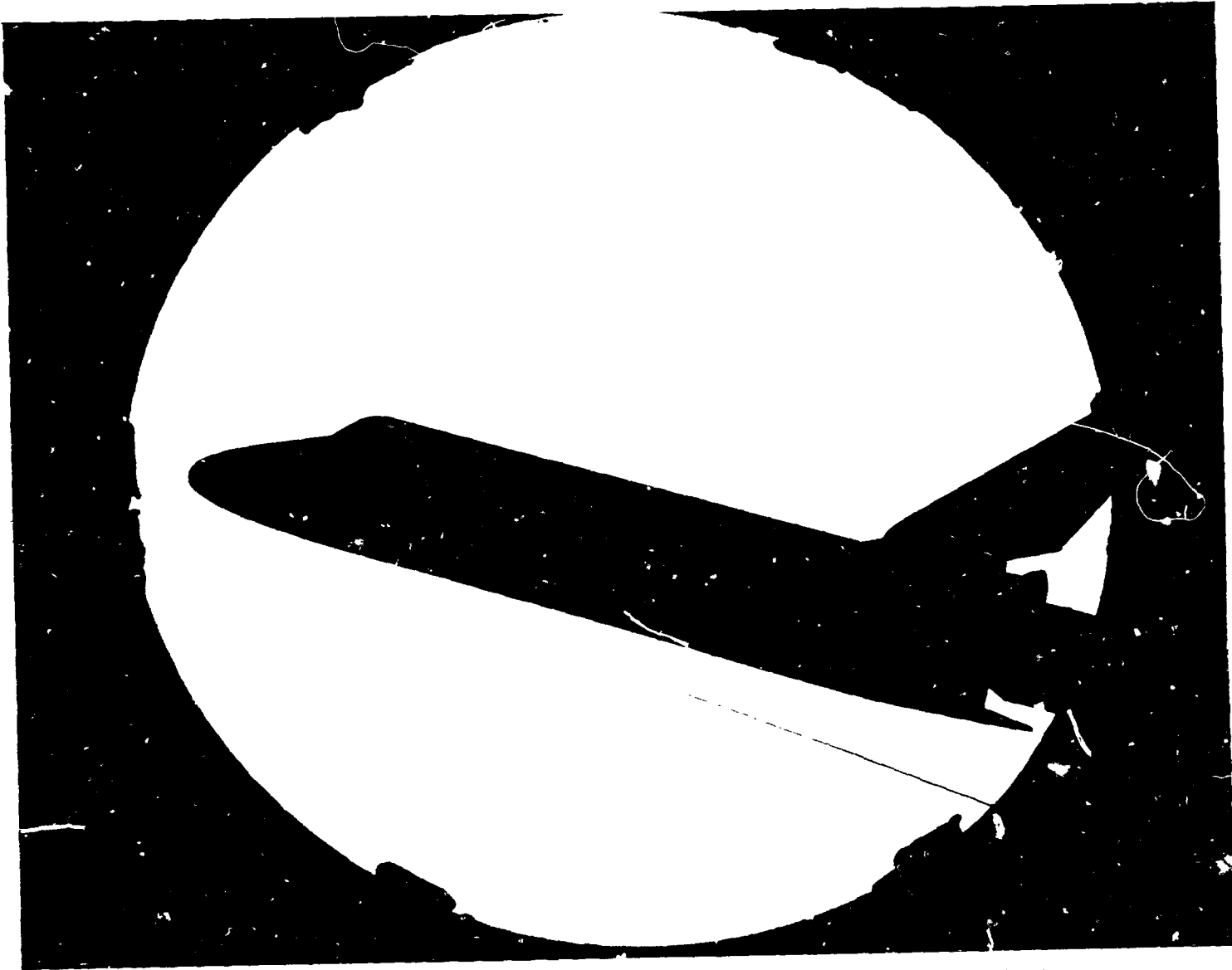
Figure 3. - Continued.



p. Top View Oilflow Photograph at Mach 5 and 20 Degrees Angle of Attack.

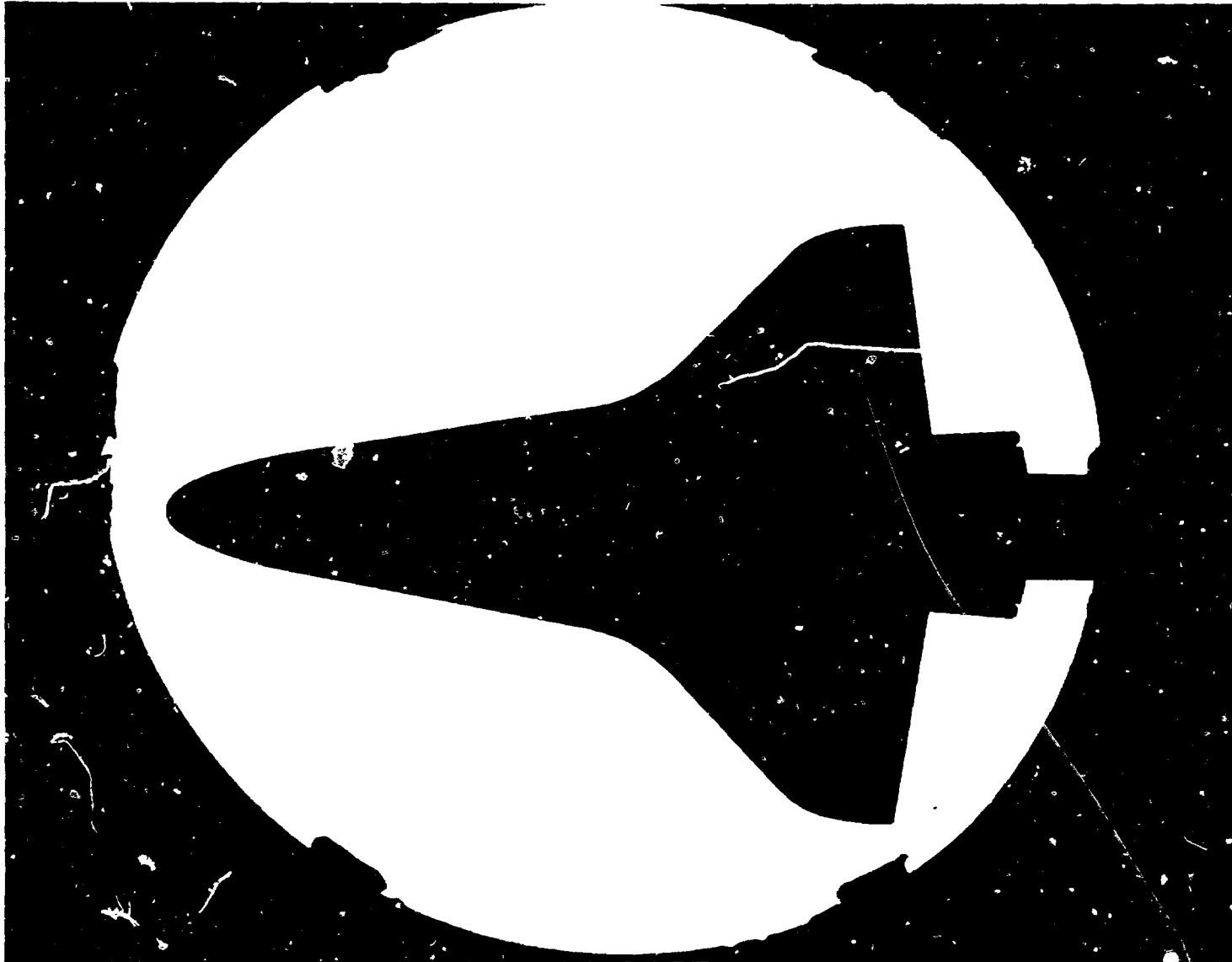
Figure 3. - Continued.

GA



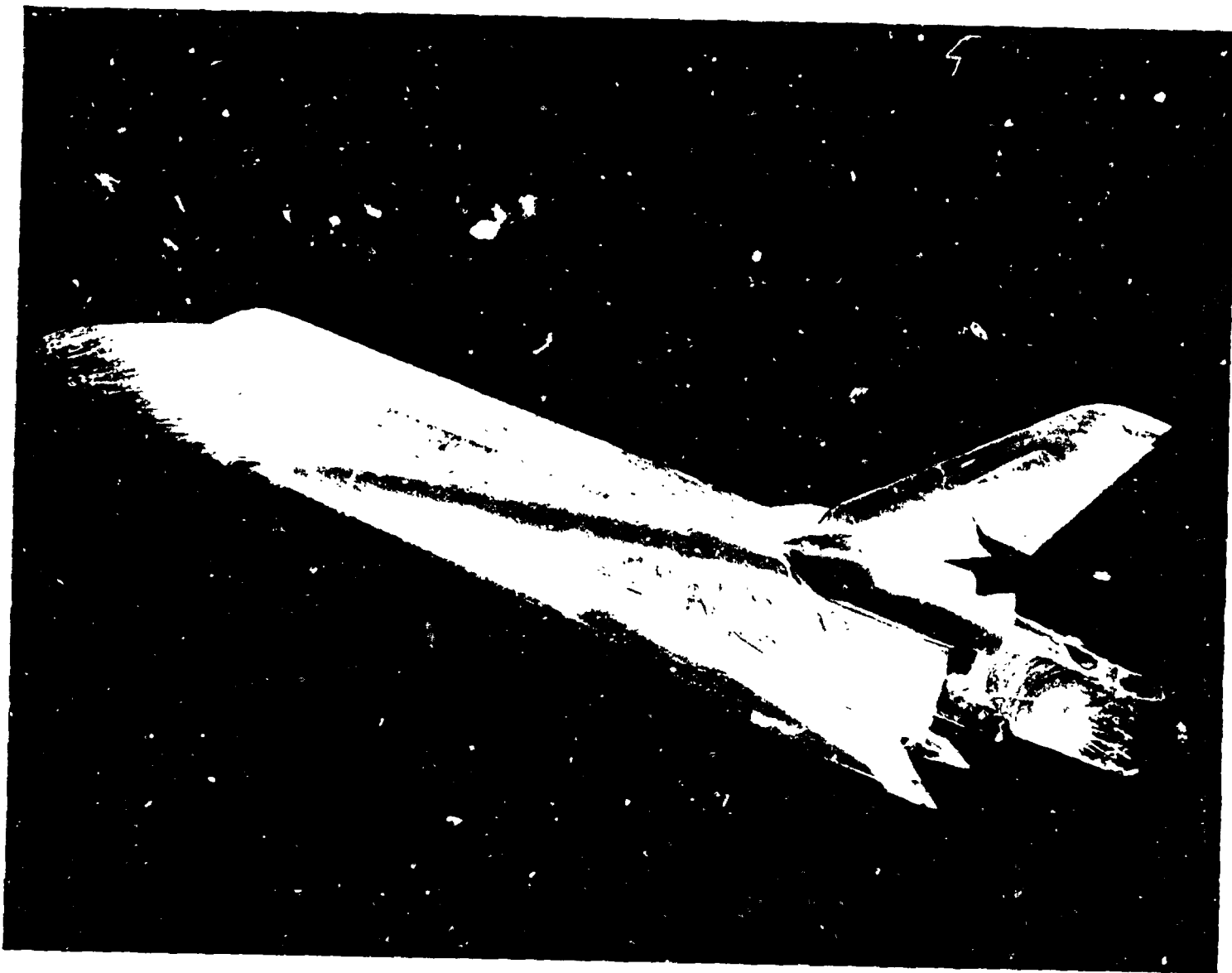
q. Side View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



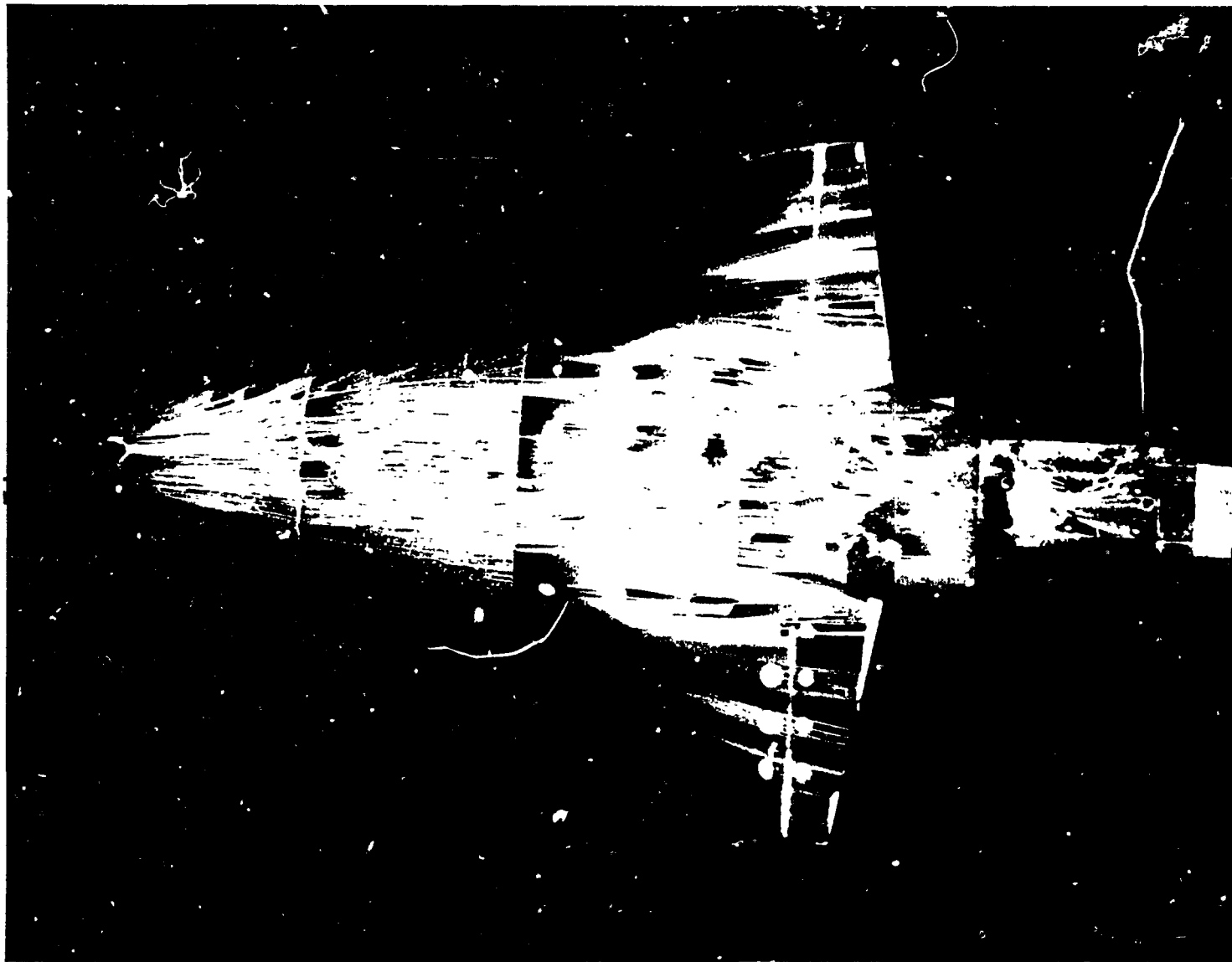
r. Plan View Shadowgraph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



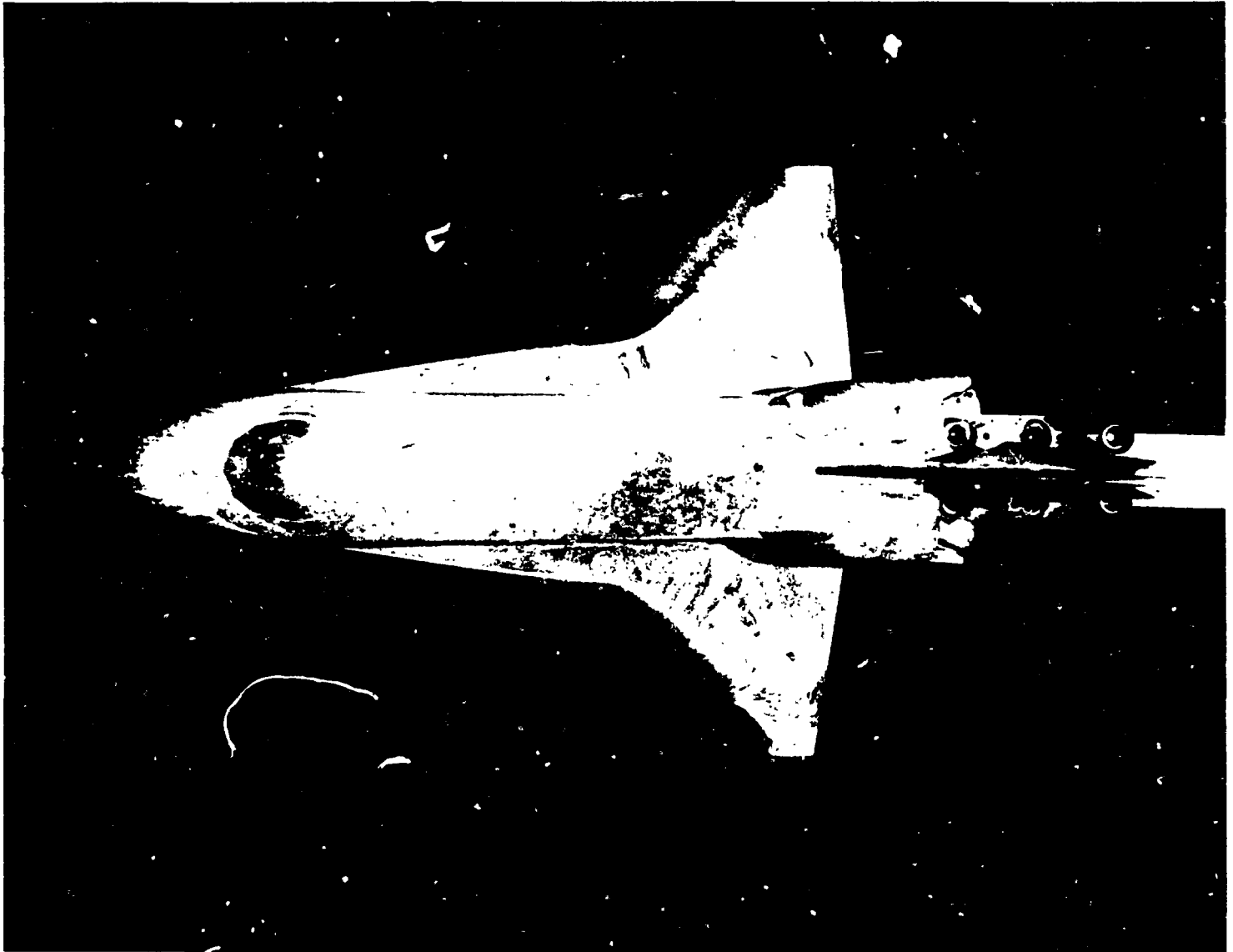
s. Side View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



t. Bottom View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

Figure 3. - Continued.



u. Top View Oilflow Photograph at Mach 7 and 20 Degrees Angle of Attack.

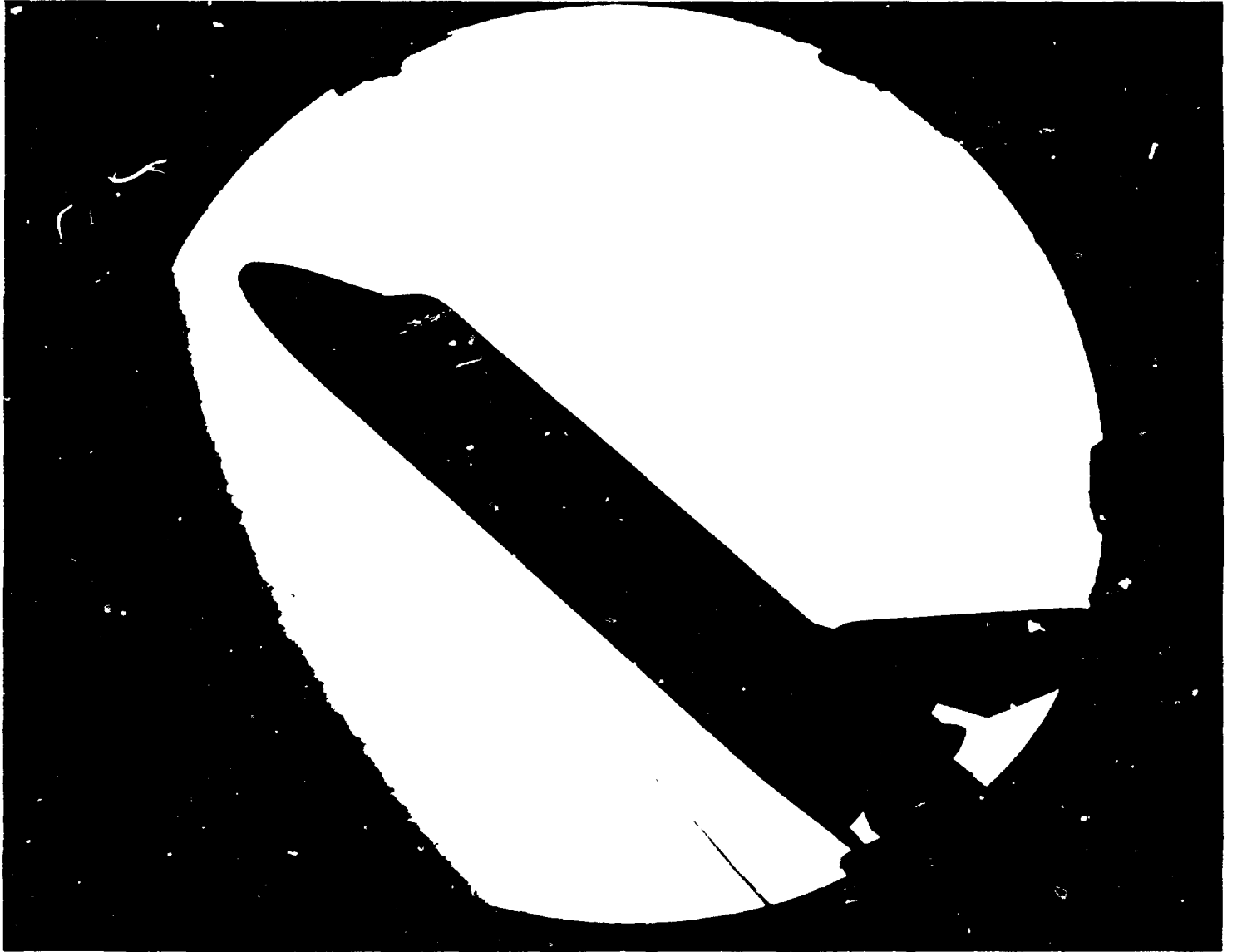
Figure 3. - Continued.



v. Side View Shadowgraph at Mach 10 and 20 Degrees Angle of Attack.

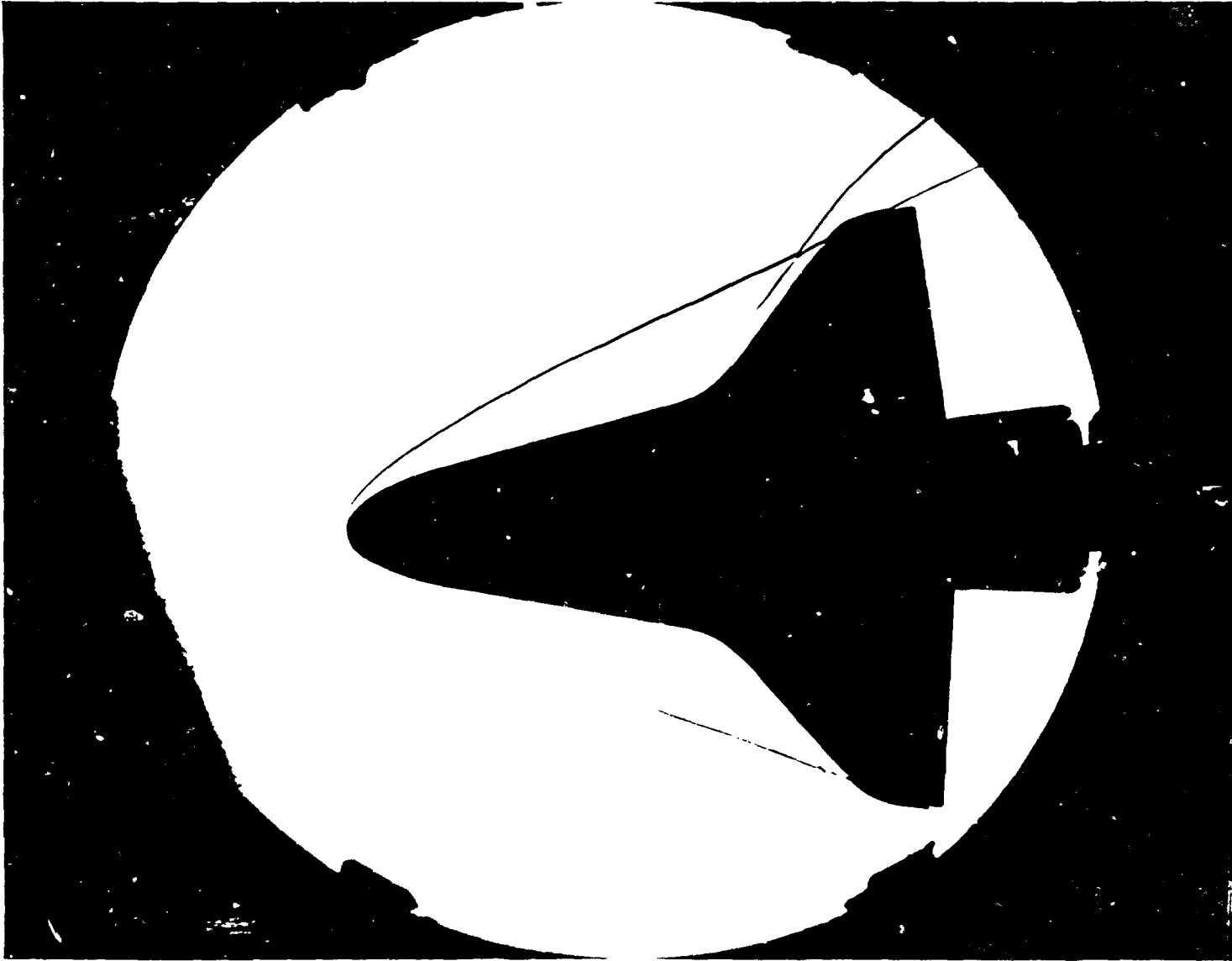
Figure 3. - Continued.

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w. Side View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



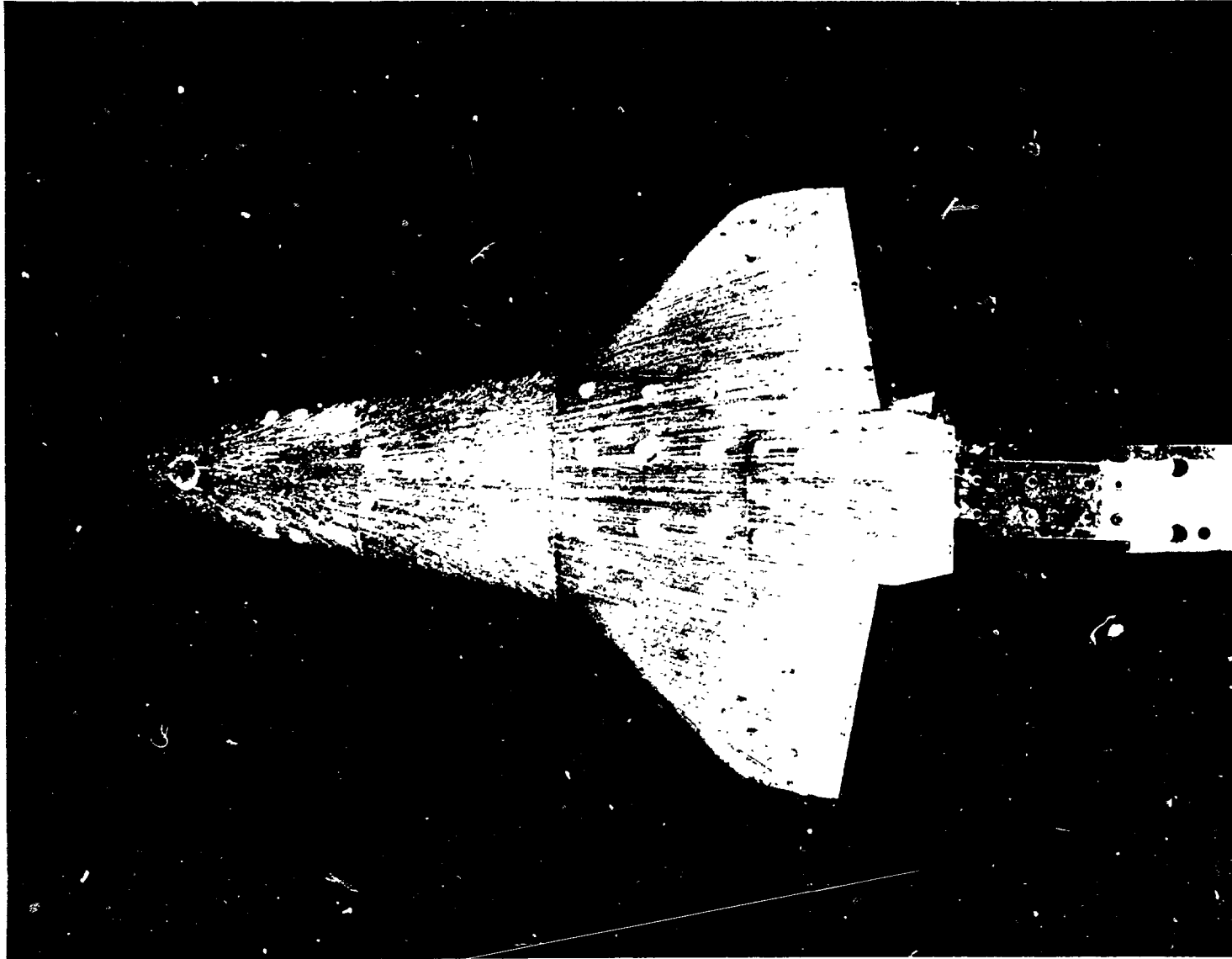
x. Plan View Shadowgraph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



y. Side View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

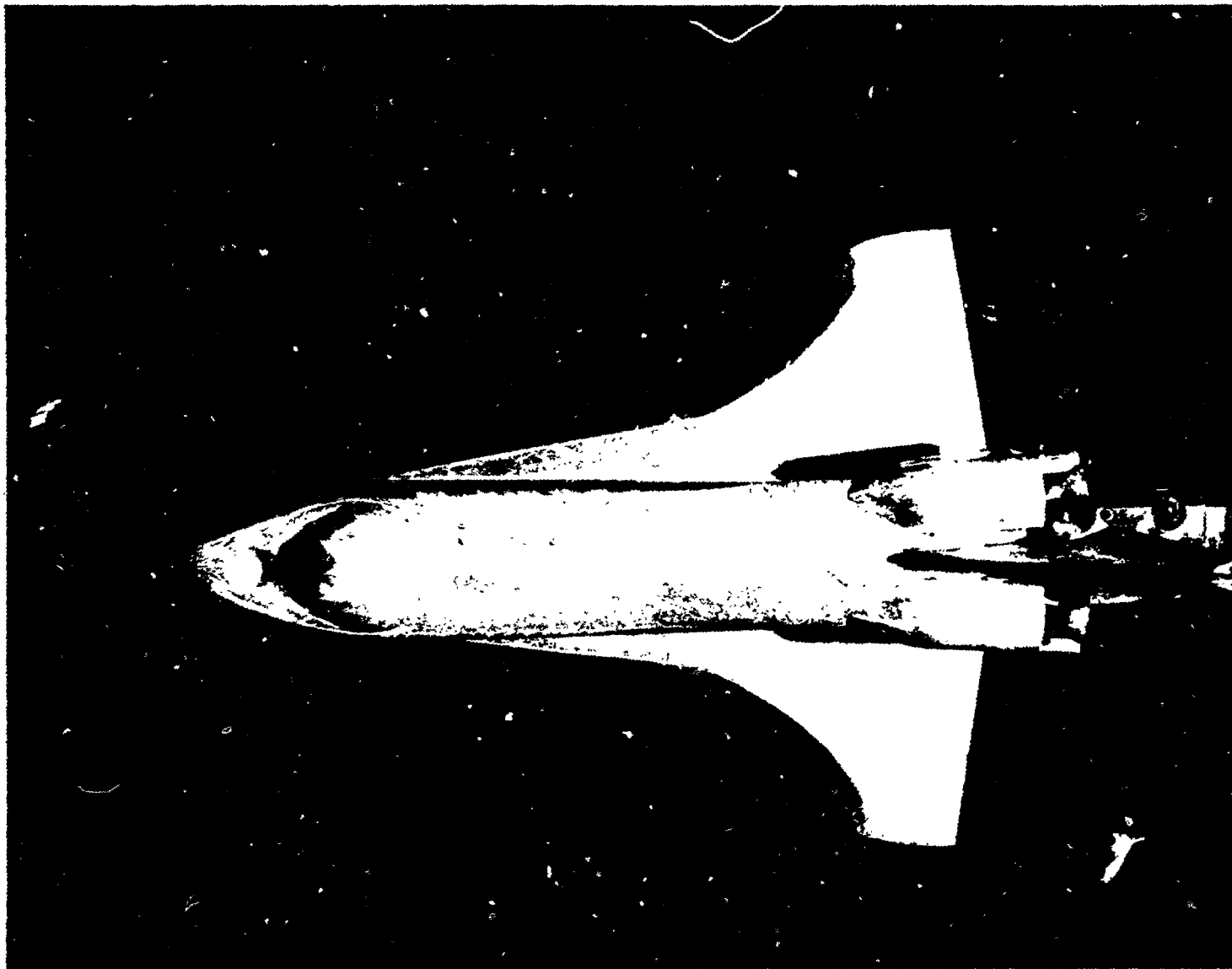
Figure 3. - Continued.



z. Bottom View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

Figure 3. - Continued.

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aa. Top View Oilflow Photograph at Mach 5 and 40 Degrees Angle of Attack.

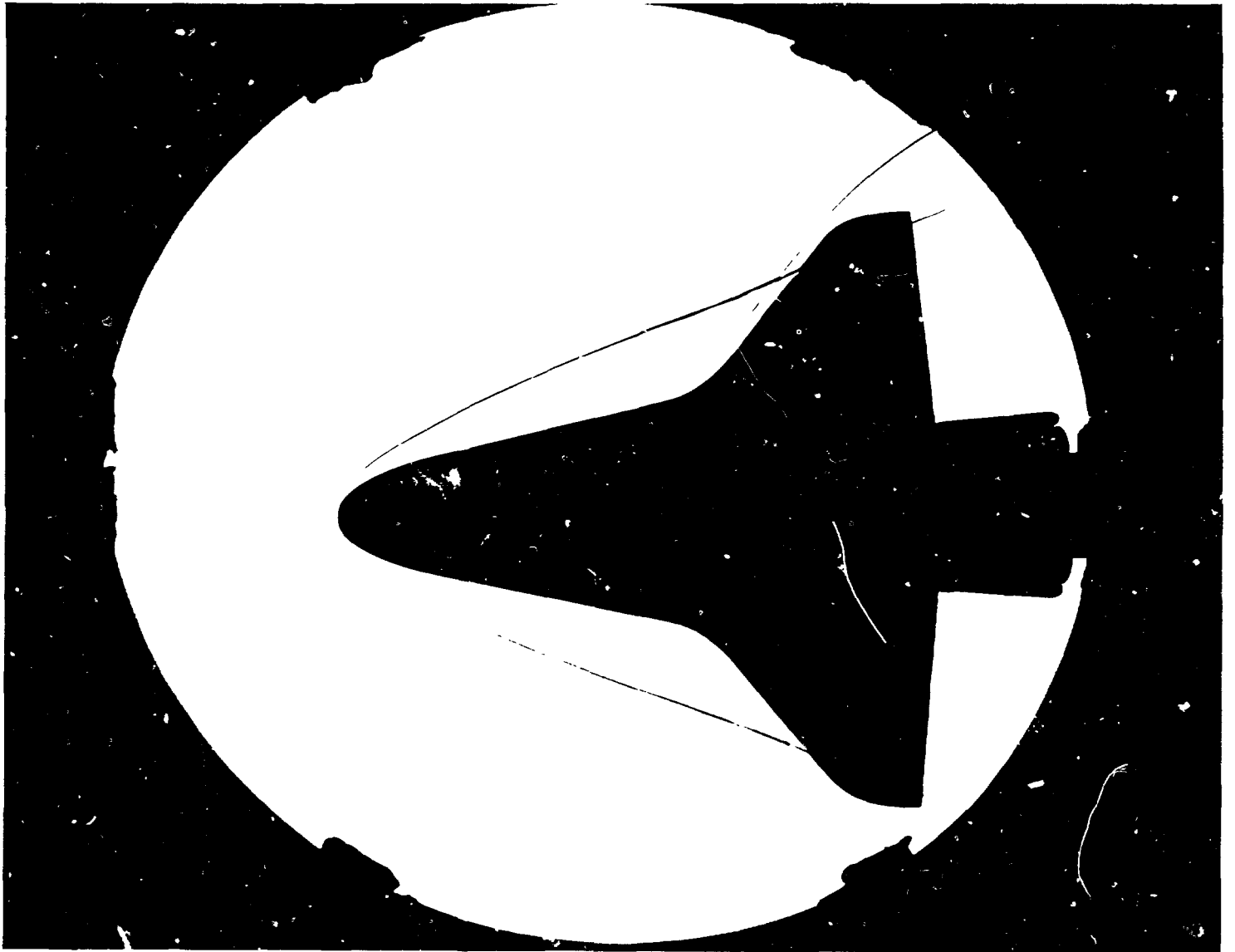
Figure 3. - Continued.

75



bb. Side View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.

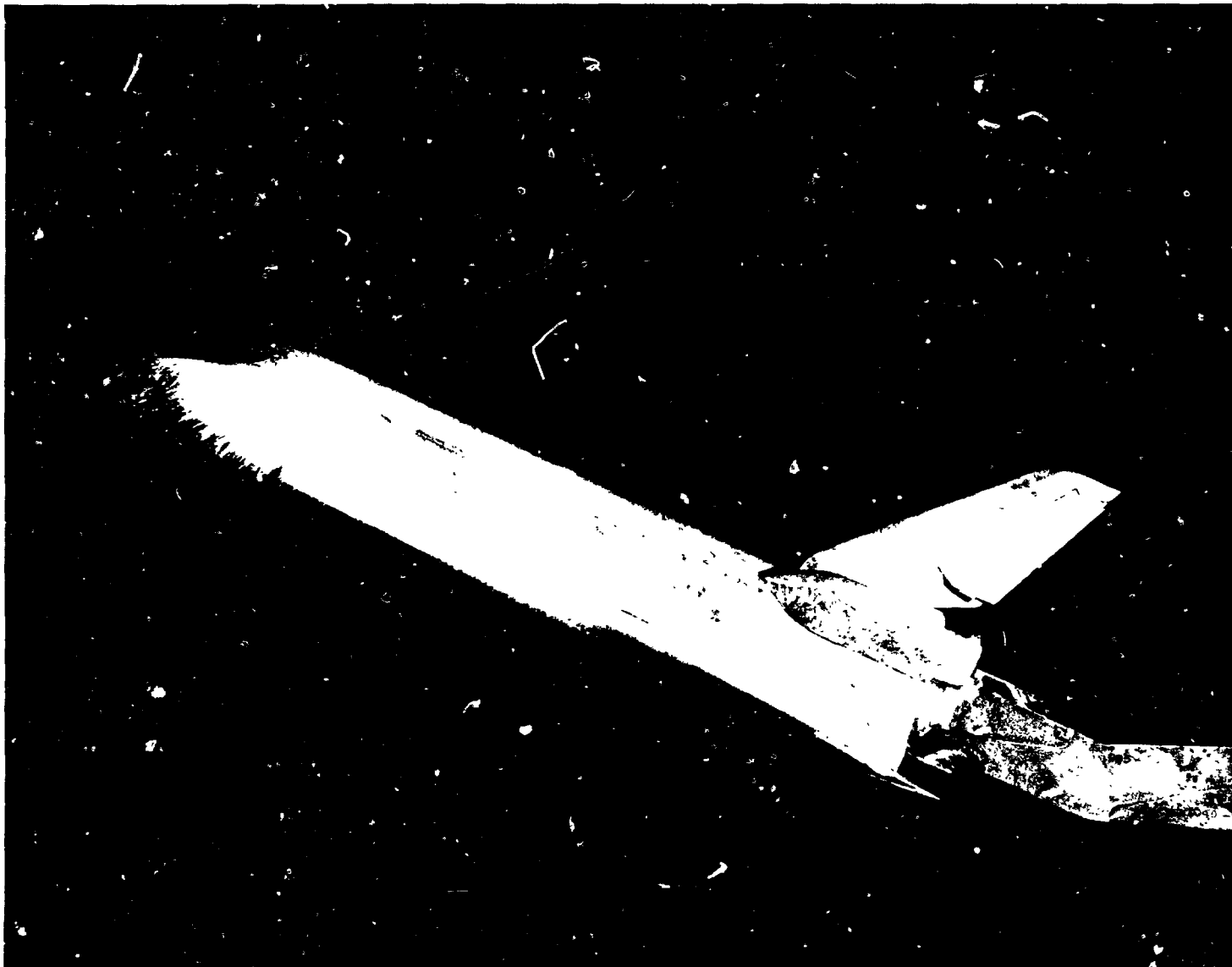
Figure 3. - Continued.



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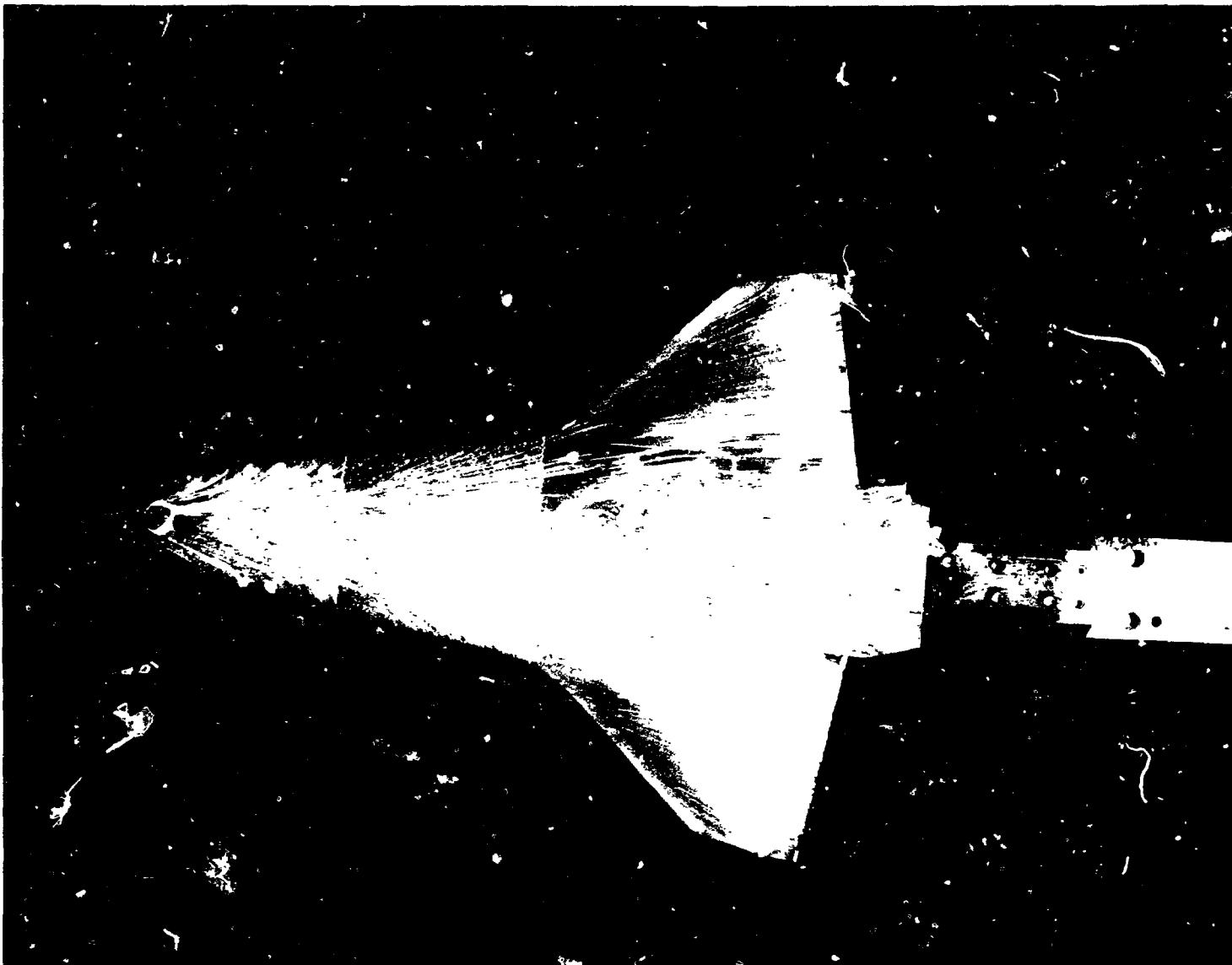
cc. Plan View Shadowgraph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



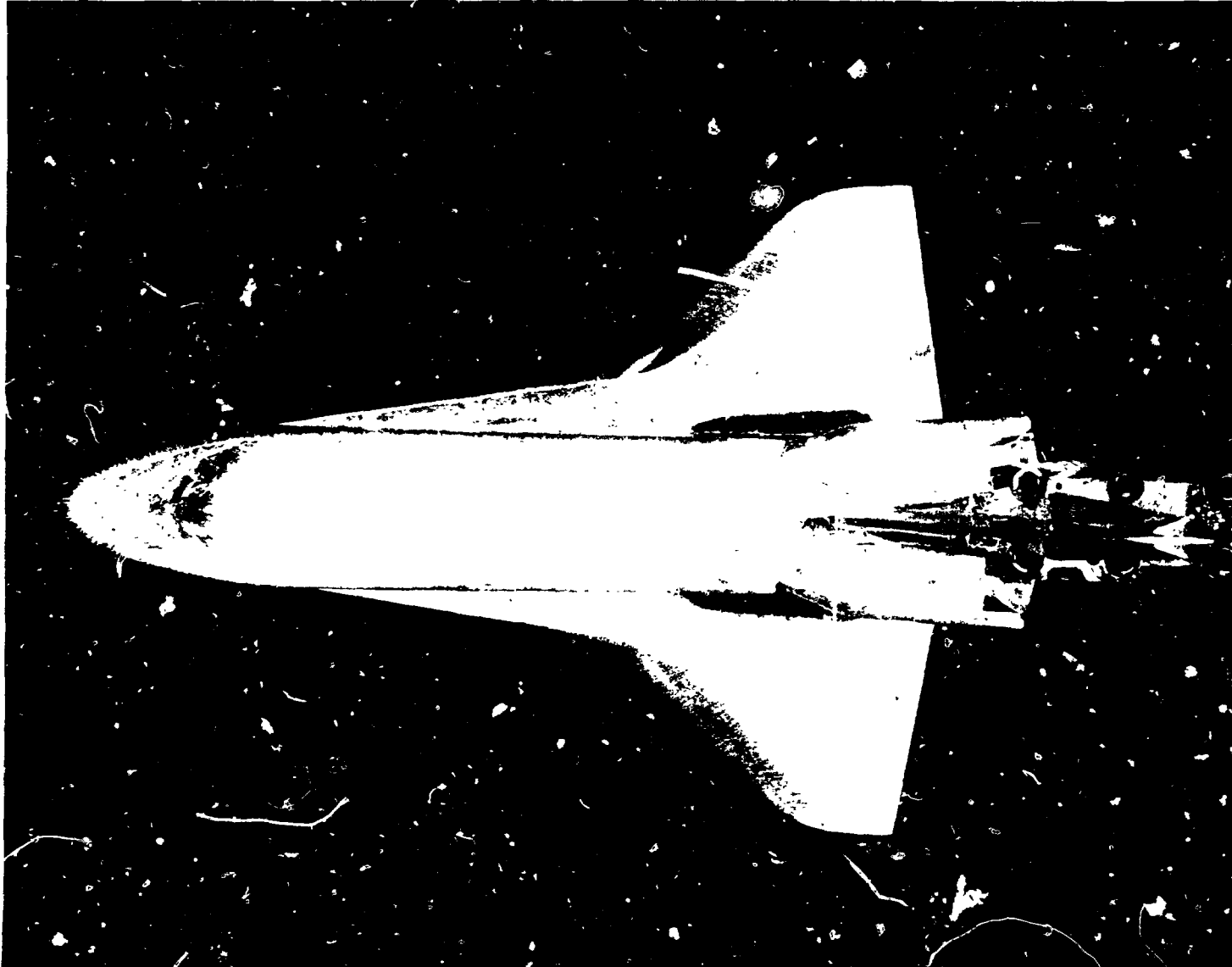
dd. Side View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



ee. Bottom View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



Top View Oilflow Photograph at Mach 7 and 40 Degrees Angle of Attack.

Figure 3. - Continued.



gg. Side View Shadowgraph at each 10 and 40 Degrees Angle of Attack.

Figure 3. - Concluded.

DATA FIGURES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C95001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(C96003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	-40.000	-14.250	55.000	.000	LR:F 474.8000 IN.
(C96004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6000 IN.
(C96005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C96009)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

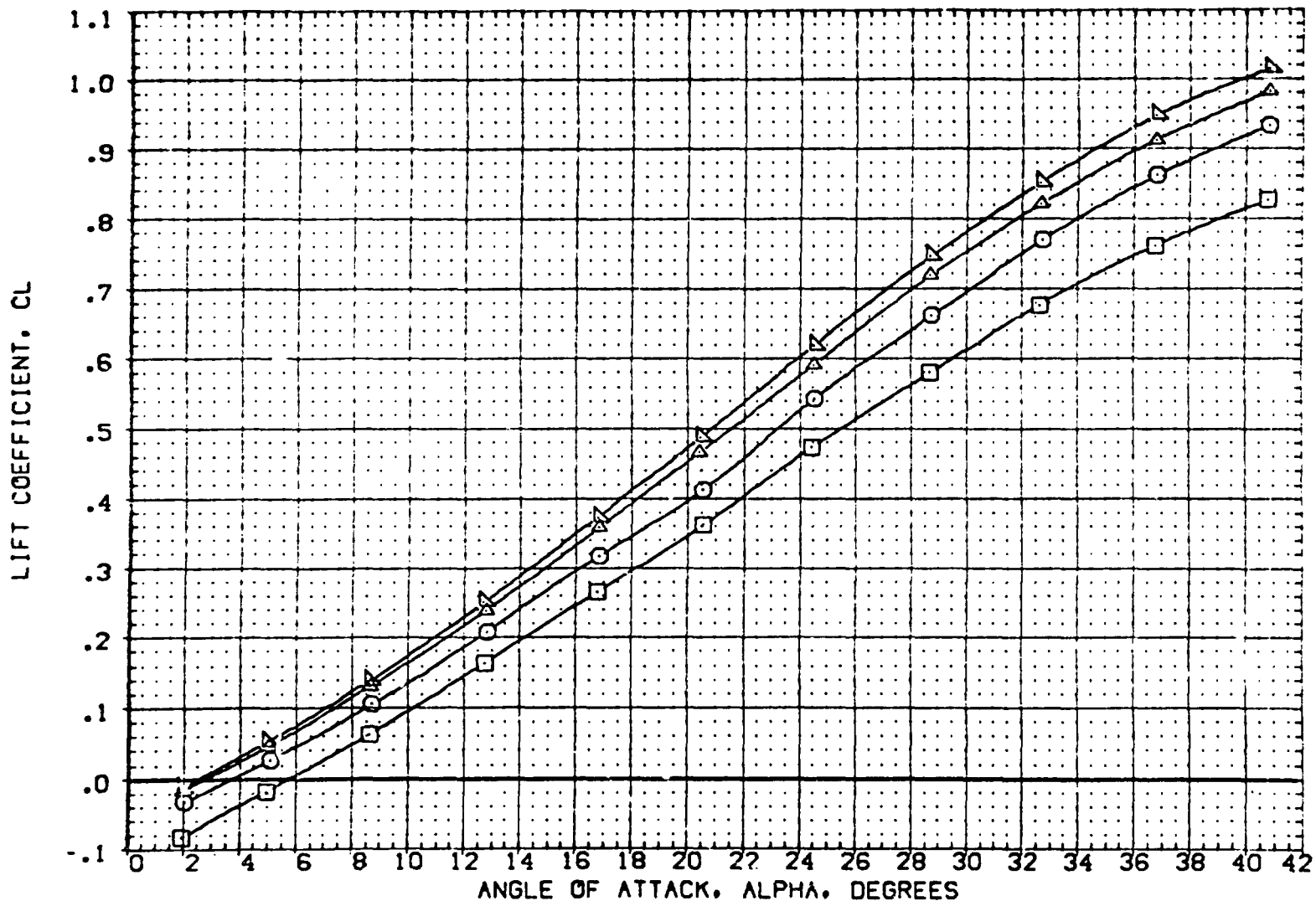


FIG. 4 ELEVON EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.6000 IN.
(CB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4900 IN.
(CB6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

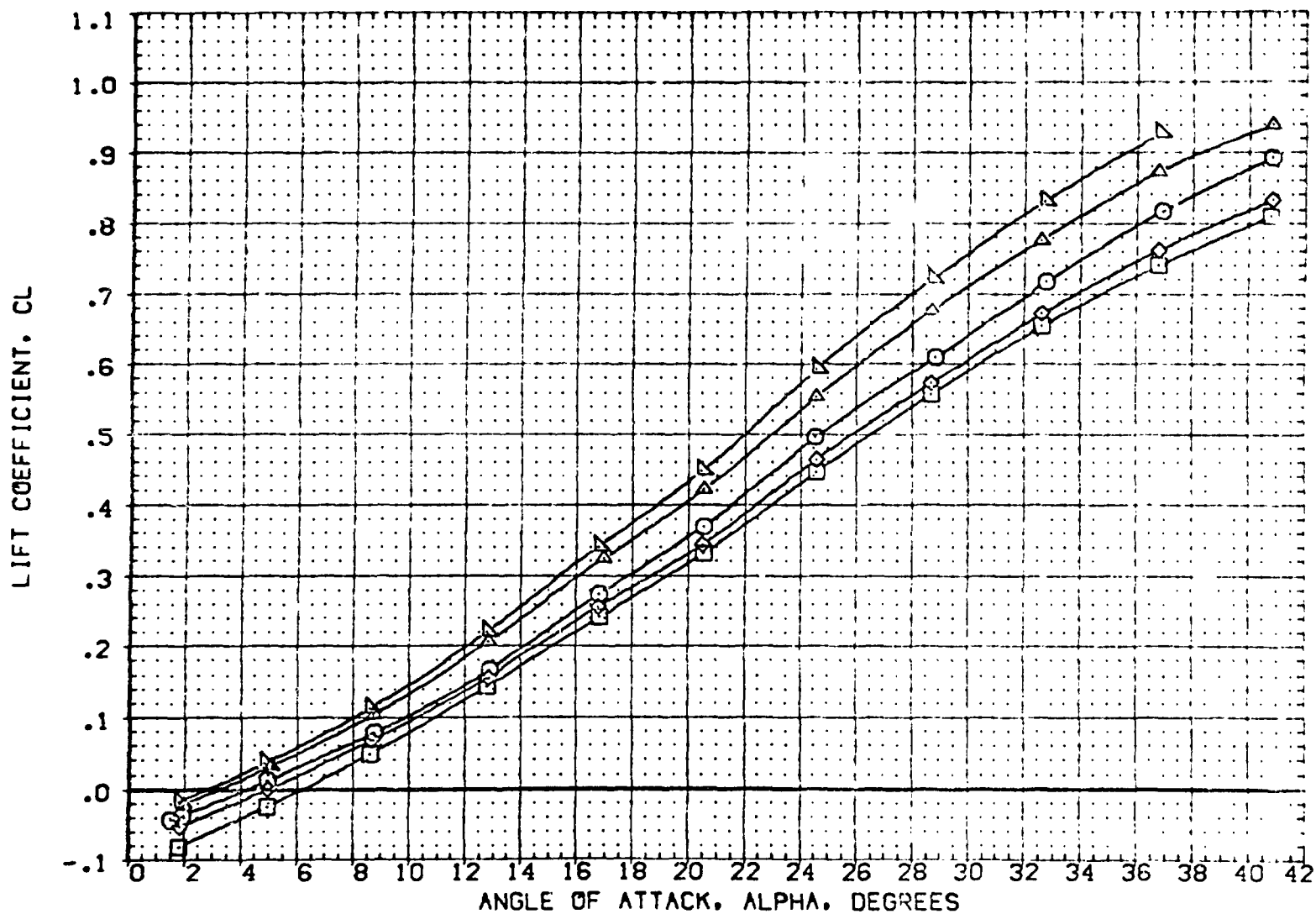


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.9000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

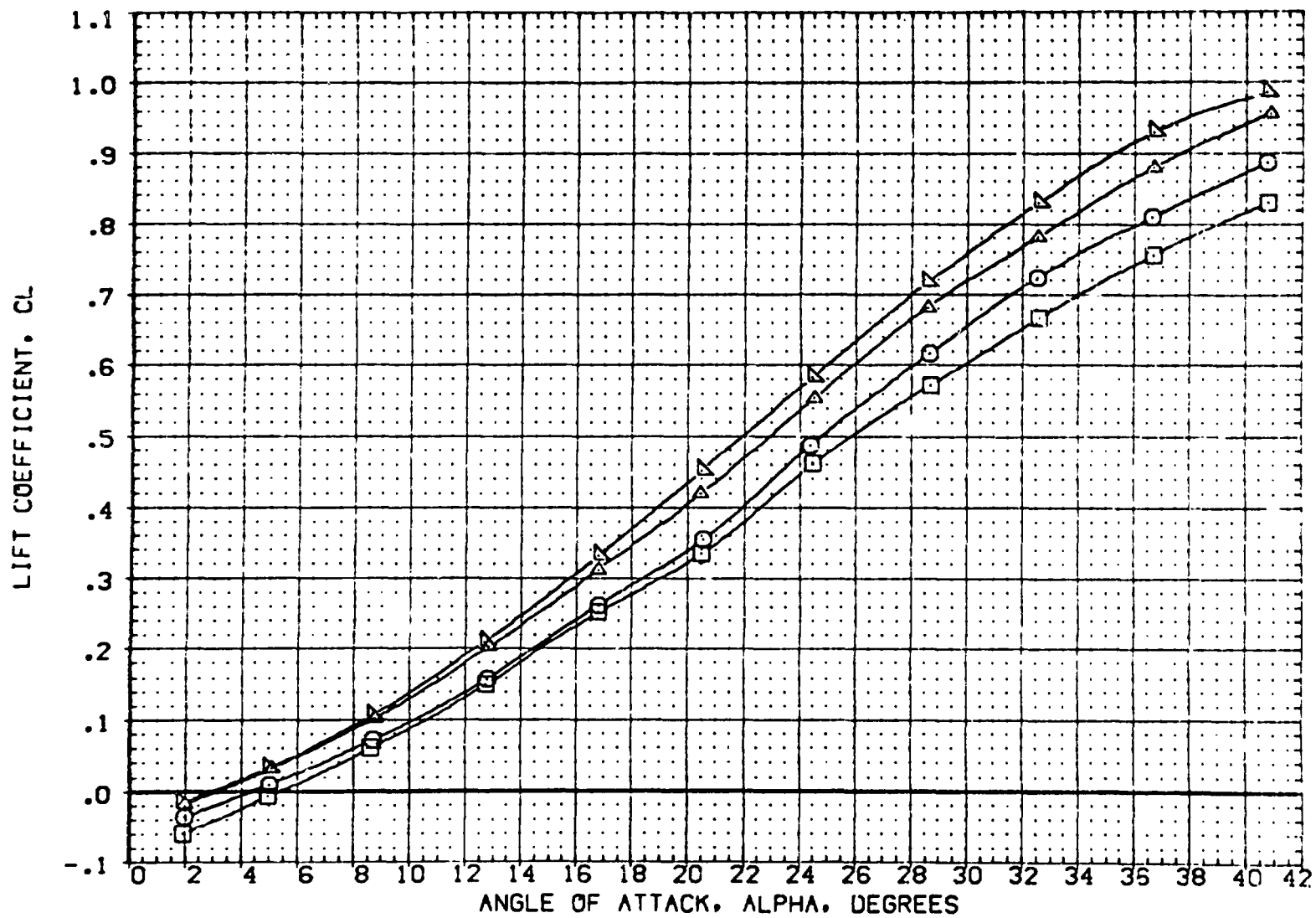


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BO/LAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	-47.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XREF 1076.4000 IN.
(CB6009A)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

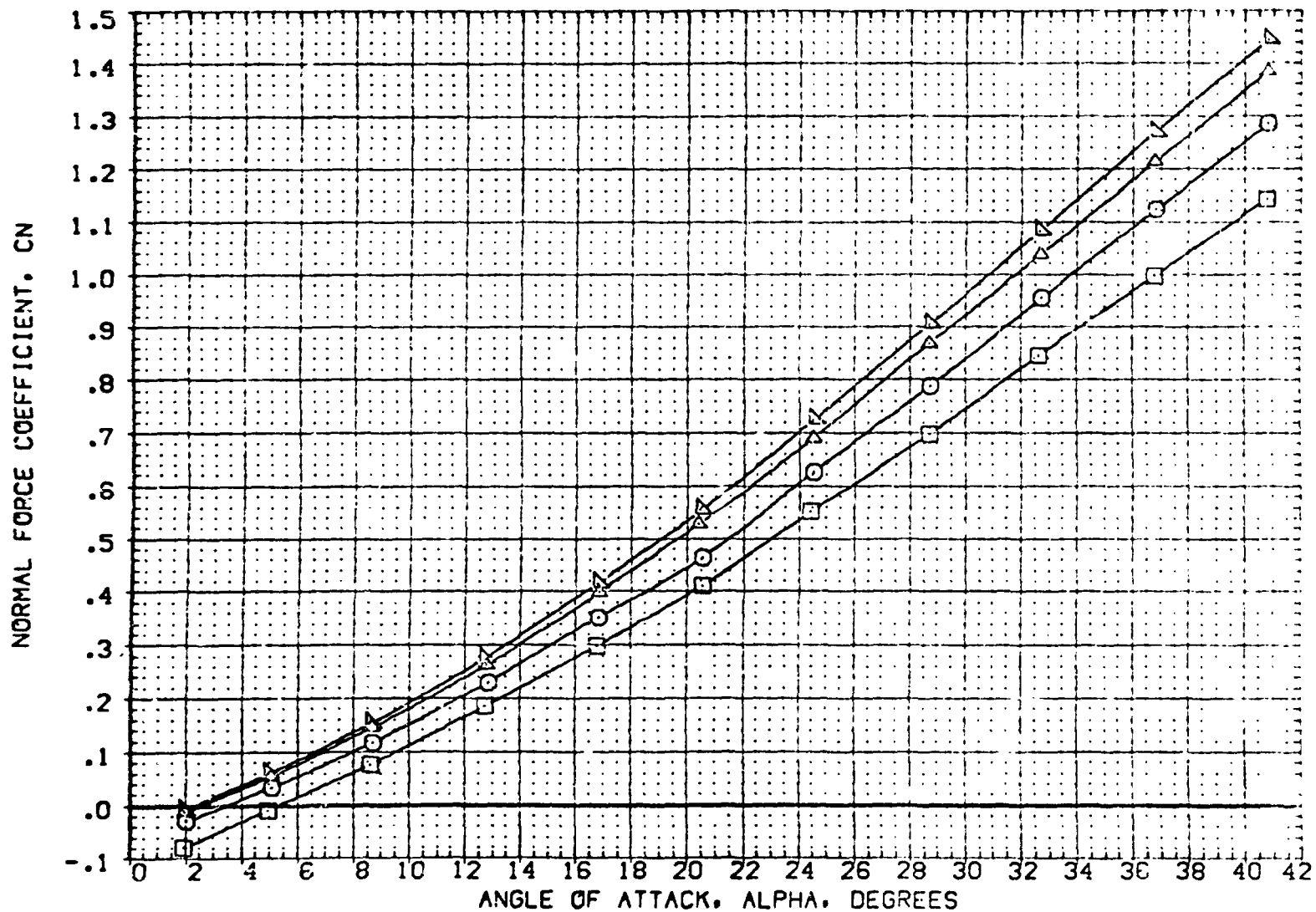


FIG. 4 ELEVON EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOF AP	SPOBRK	RUGGER	REFERENCE INFORMATION
(CBG001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CBG003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CBG004)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6900 IN.
(CBG005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CBG09A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

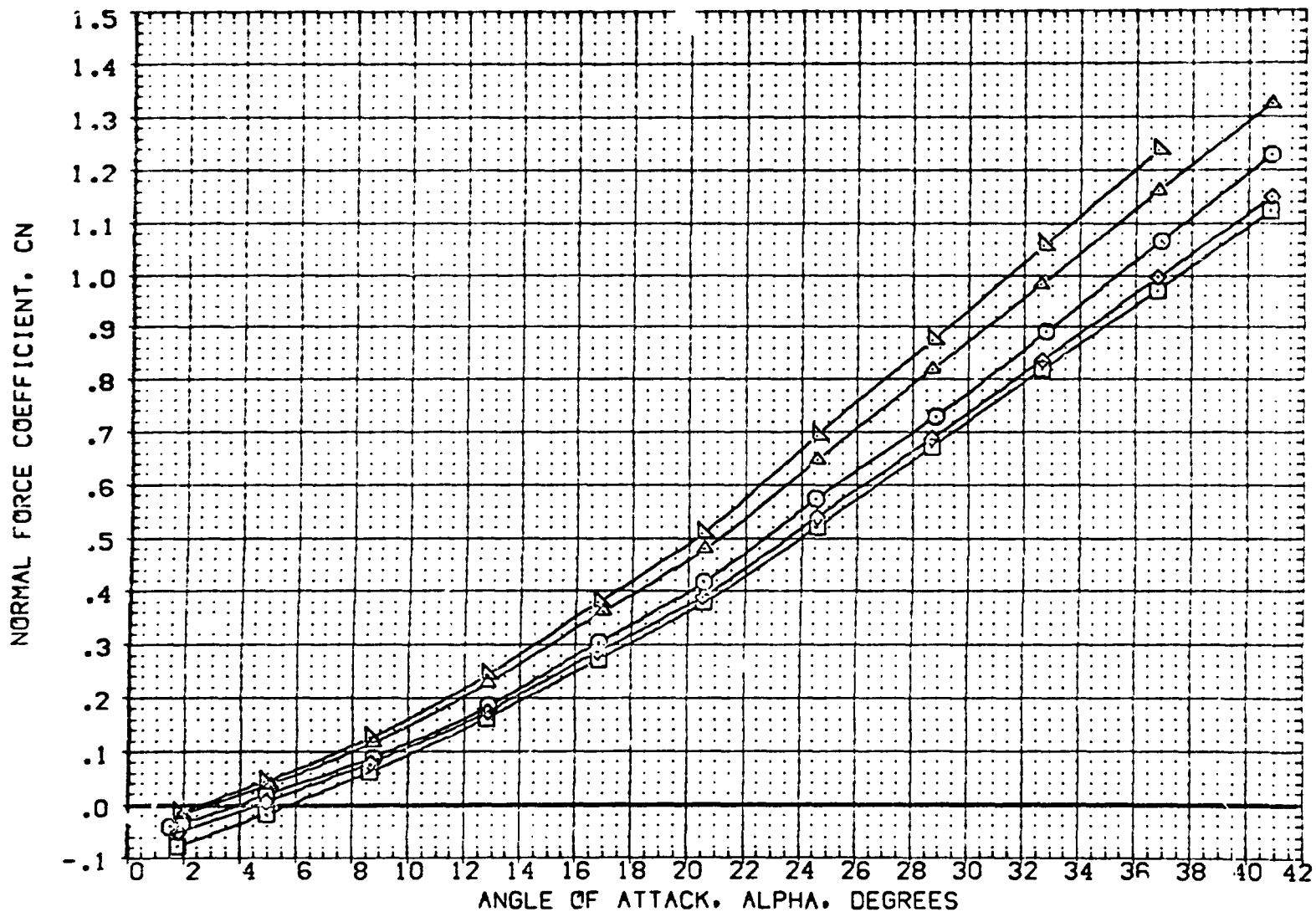


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	*MES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 900.0000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRF 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRF .0000 IN.
						ZMRF 400.0000 IN.
						SCALE .0150 SCALE

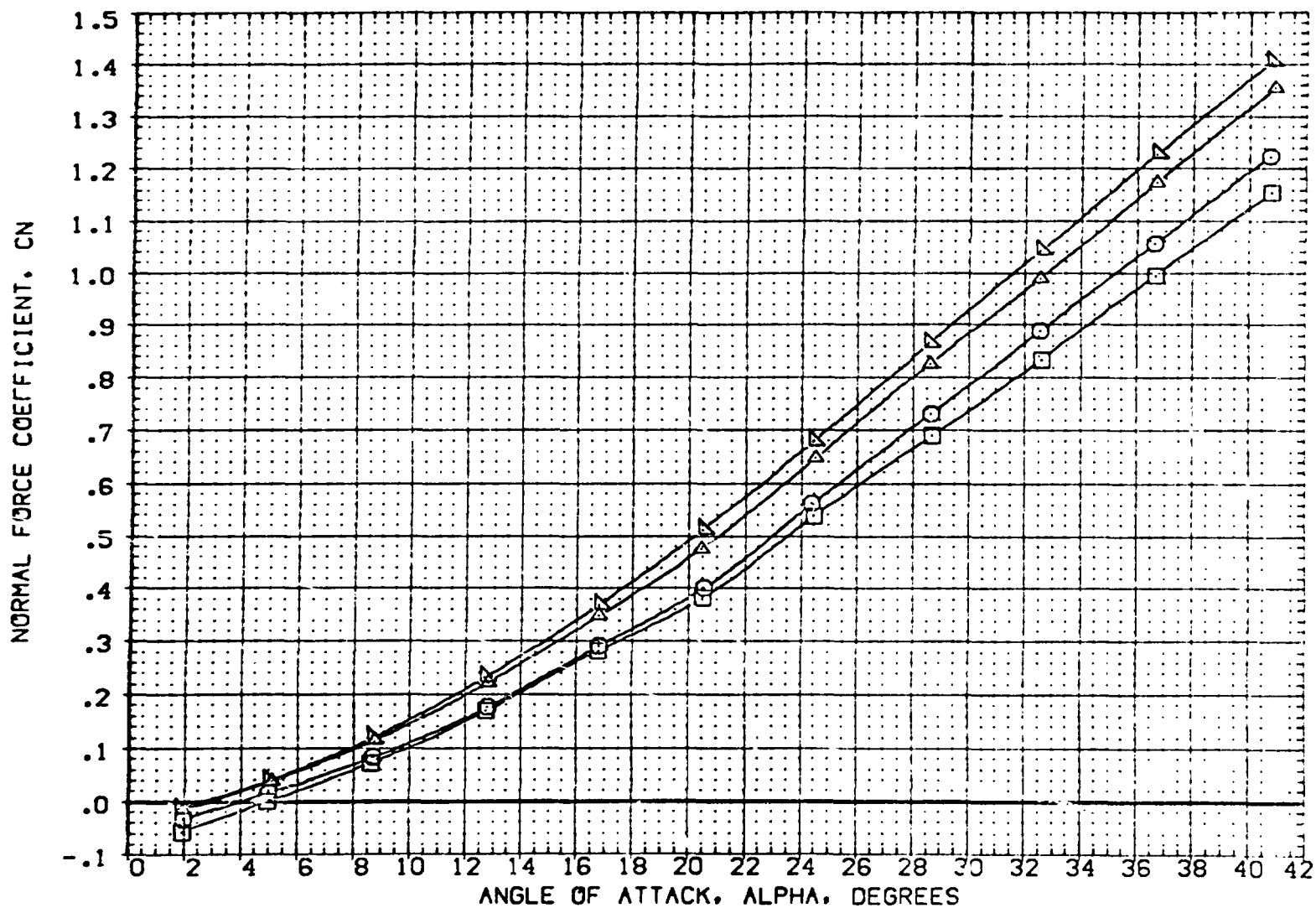


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBO	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPODBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AKCS3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107					SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

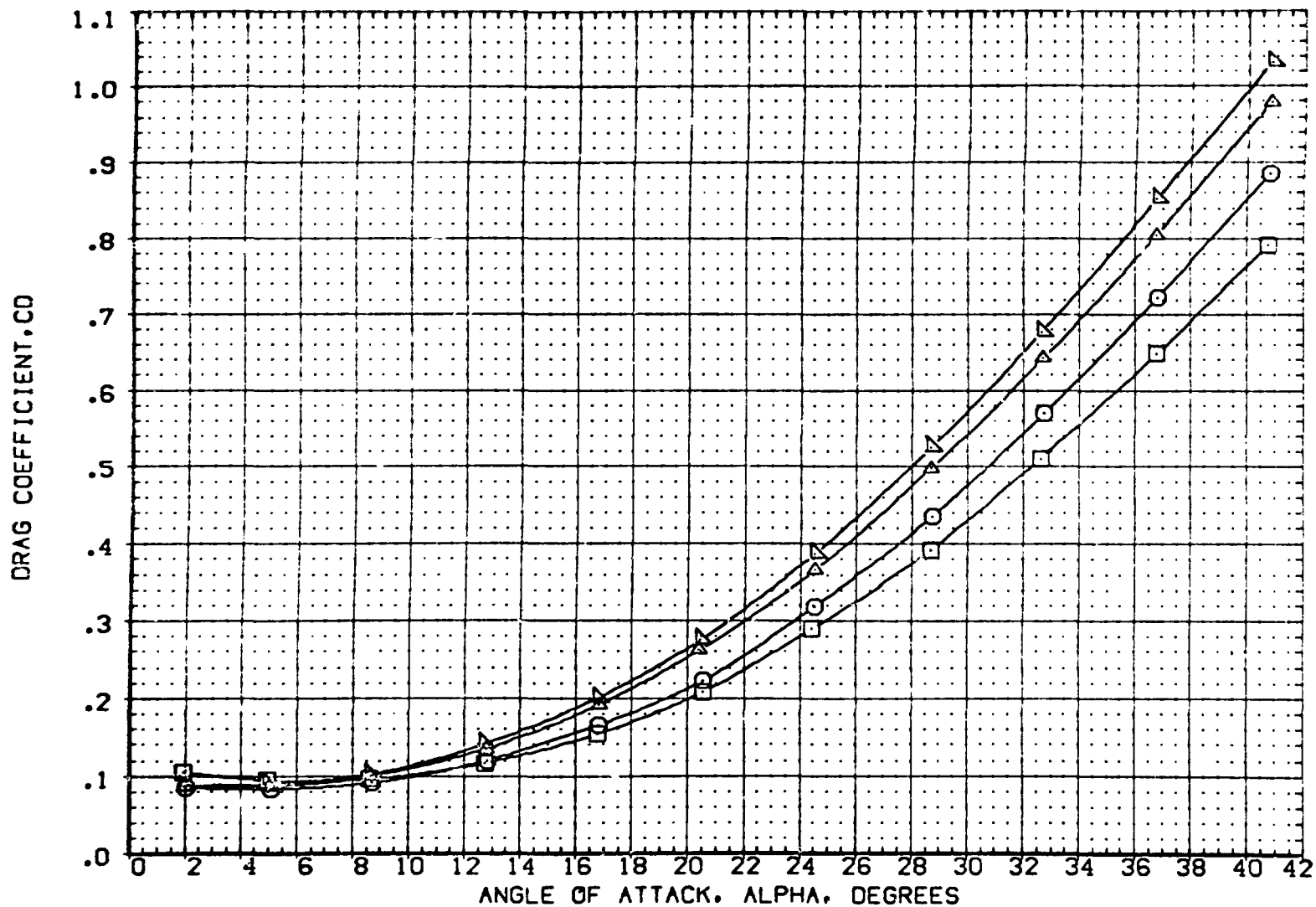


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R6 R7 V7 V107					SREF 2690.0000 50. FT.
(CB6003)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R6 R7 V7 V107	-40.0000	-14.2500	55.0000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R6 R7 V7 V107	-20.0000	-14.2500	55.0000	.000	BREF 936.6000 IN.
(CB6005)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R6 R7 V7 V107	15.0000	-14.2500	55.0000	.000	XMRP 1076.4000 IN.
(CB609A)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R6 R7 V7 V107	15.0000	13.7500	55.0000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

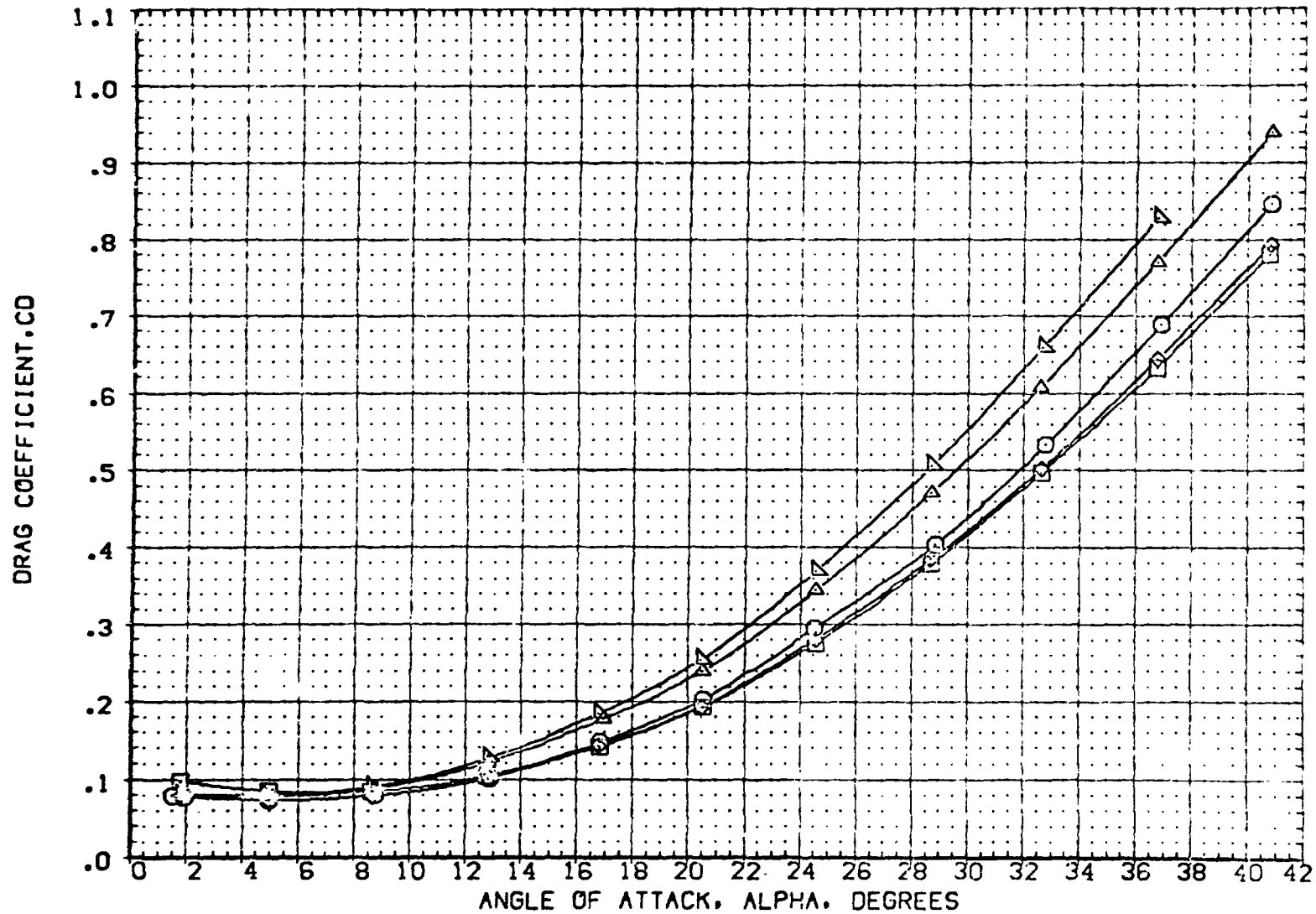


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES 3.5-168 OA23 B22 C7 E23 F5 H4 R6 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES 3.5-168 OA23 B22 C7 E23 F5 H4 R6 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6900 IN.
(CB6005)	AMES 3.5-168 OA23 B22 C7 E23 F5 H4 R6 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
(CB609A)	AMES 3.5-168 OA23 B22 C7 E23 F5 H4 R6 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

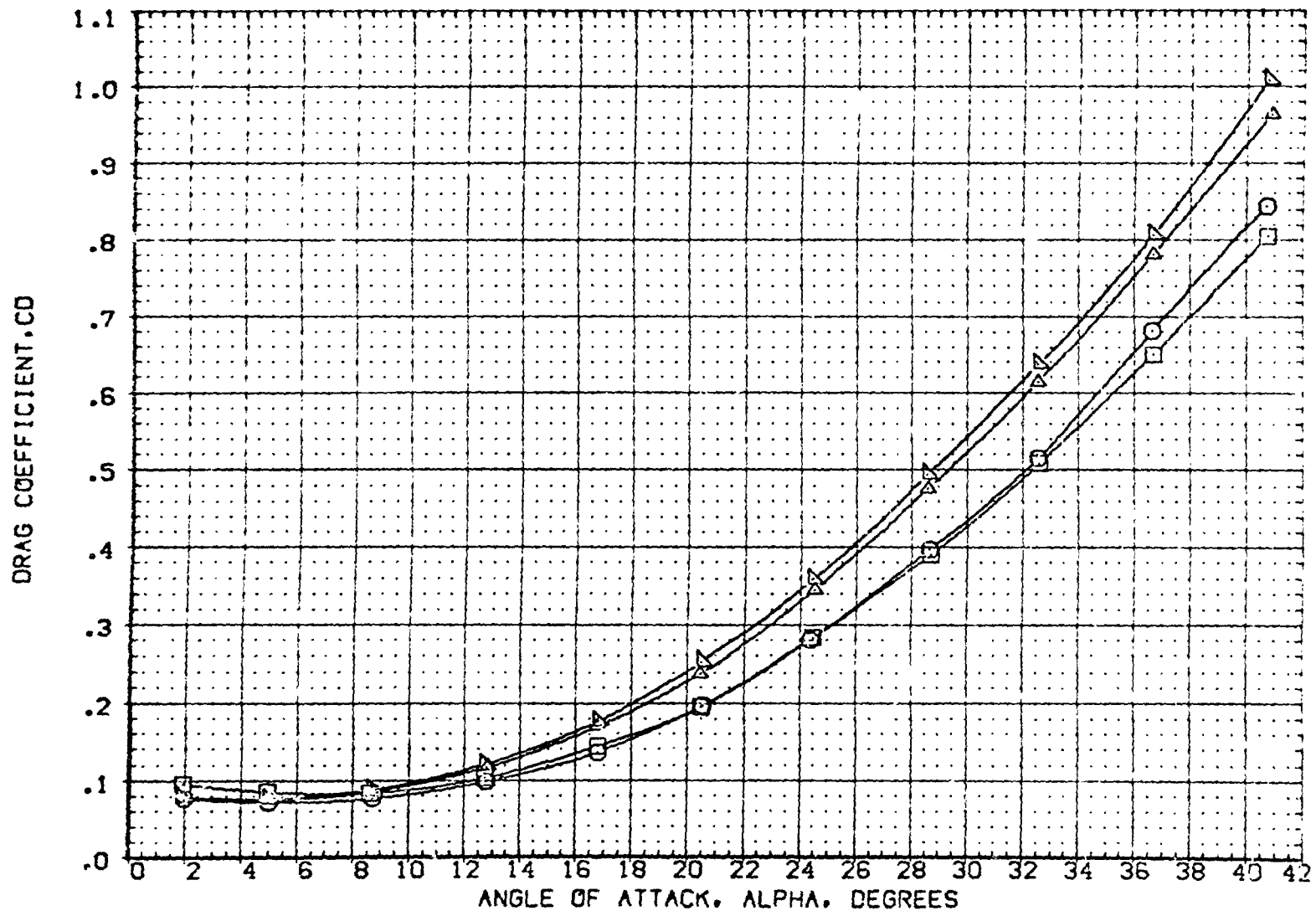


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

1478 CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	ORNF 936.8000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

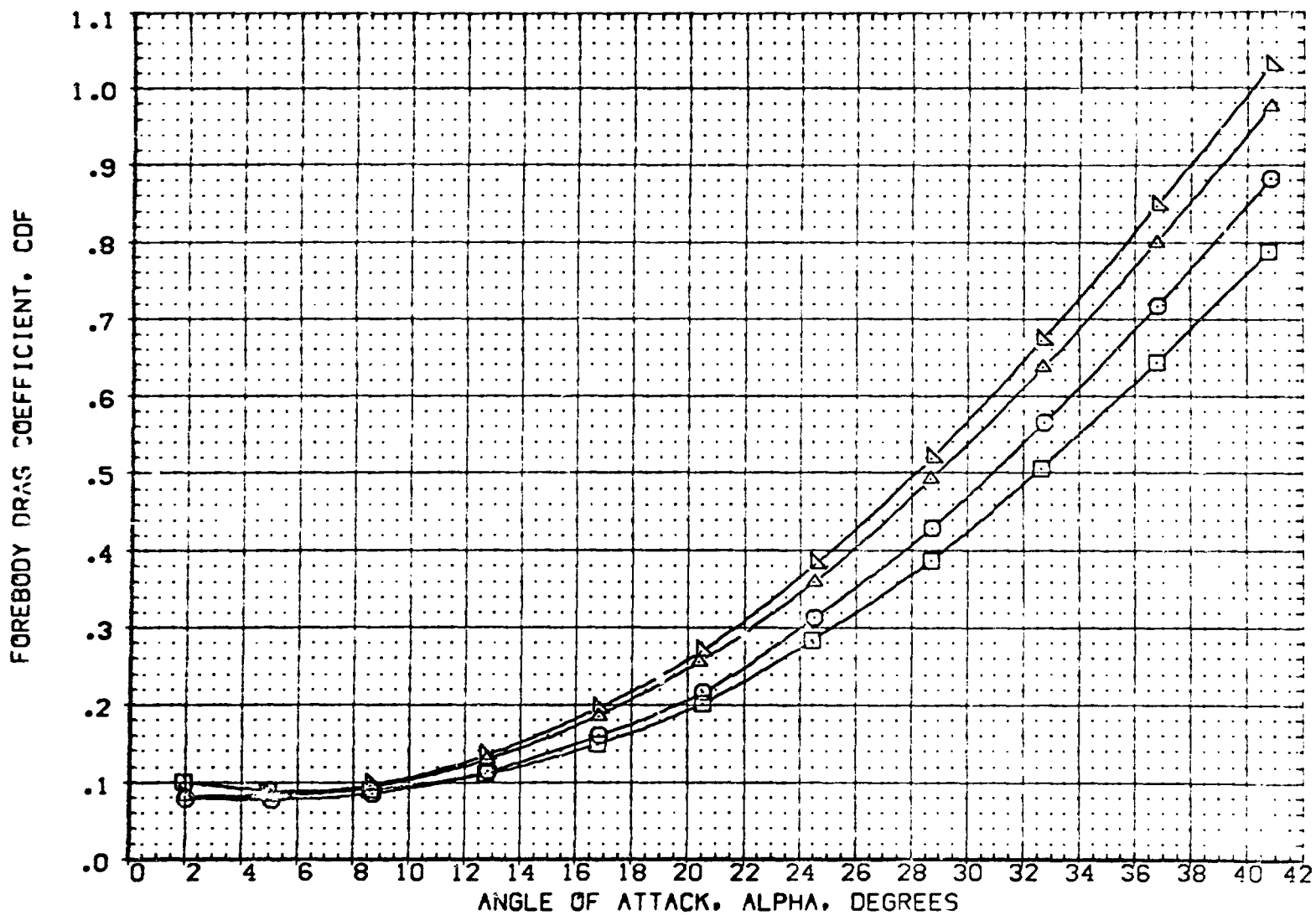


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.3000 SQ.FT.
(B6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

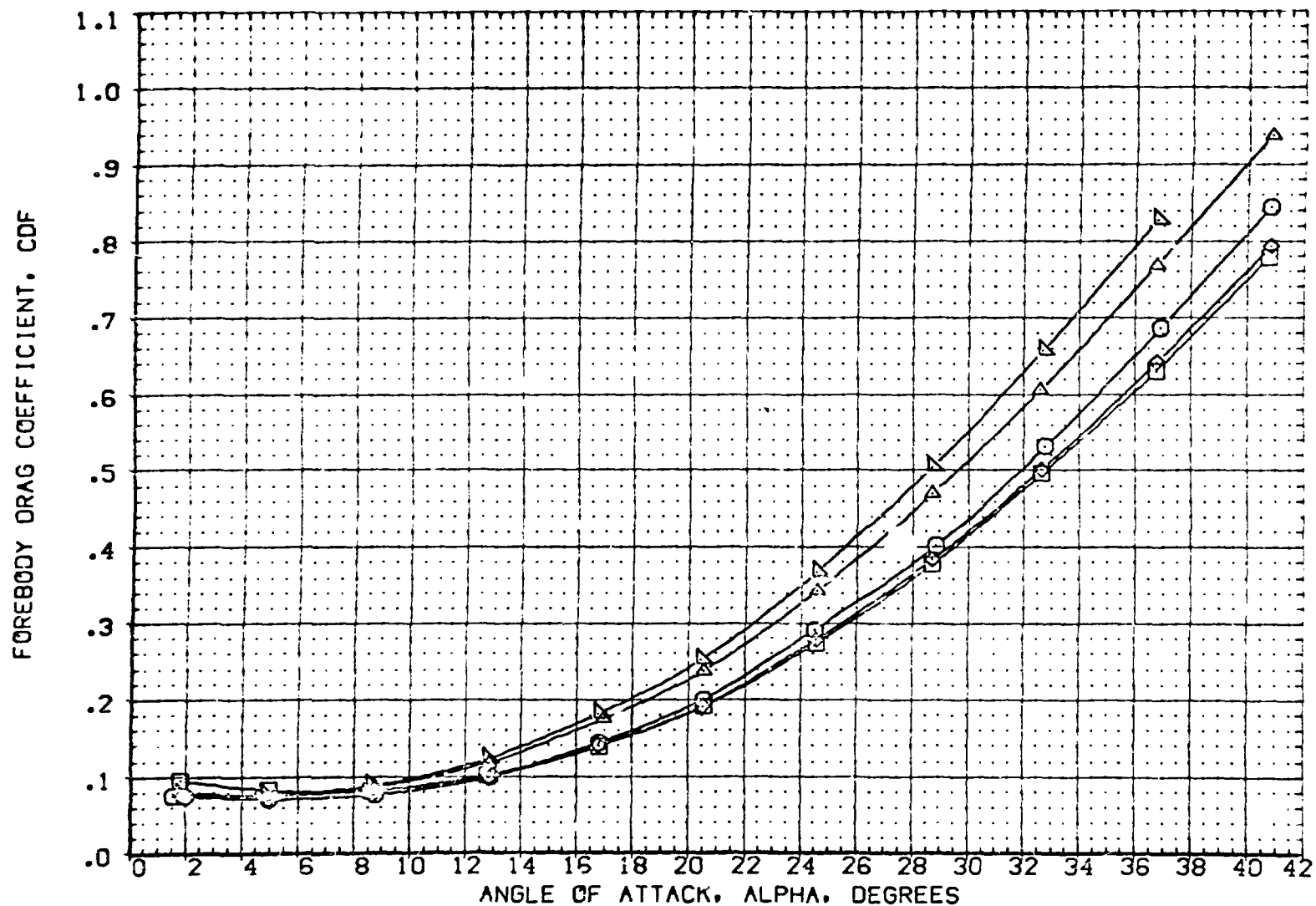


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRN	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 11.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 5.15000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	15.000	-14.250	55.000	.000	YMXP 1076.4000 IN.
(CB6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

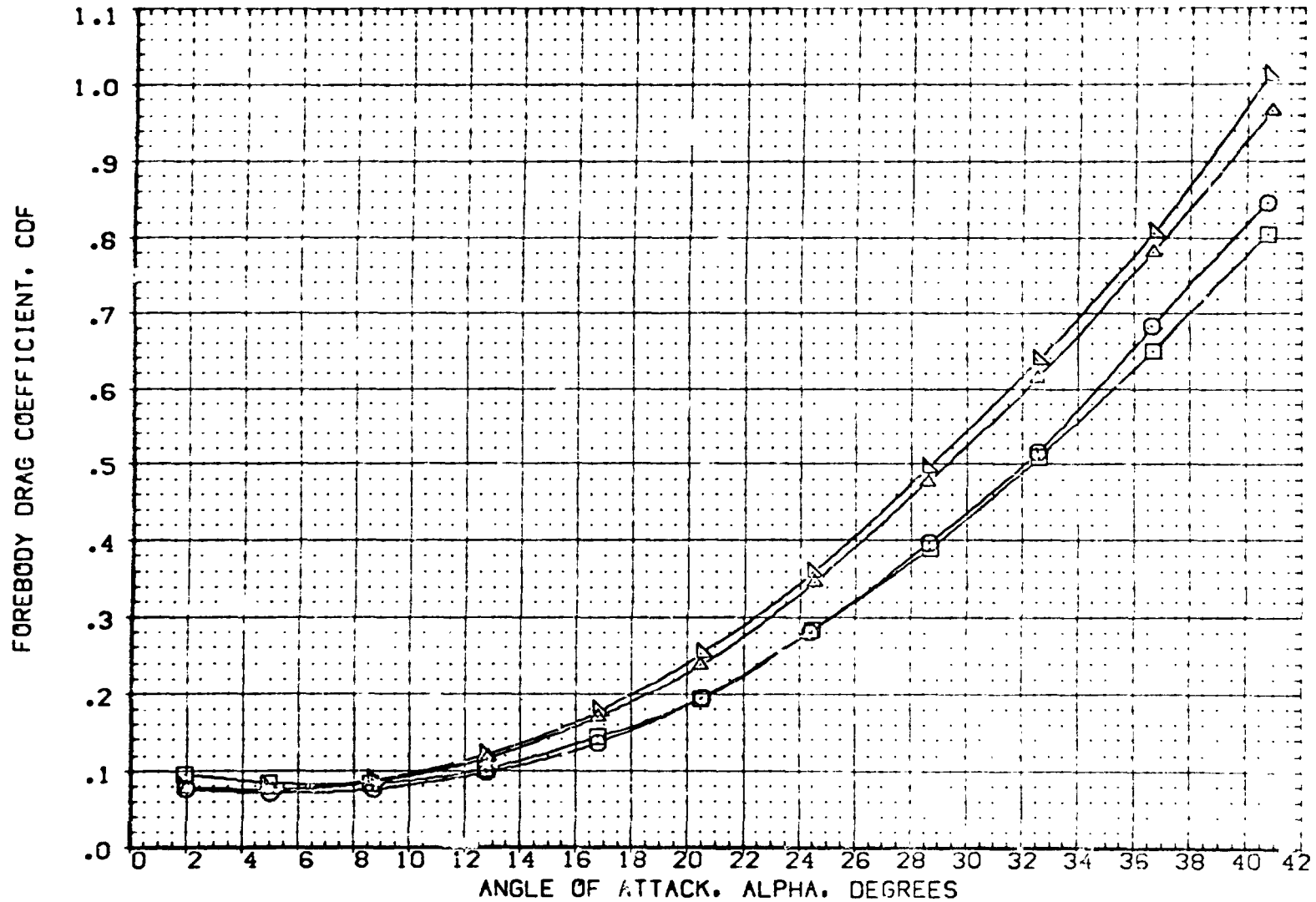


FIG. 4 ELEVON EFFECTS
 (C)MACH = 10.29
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

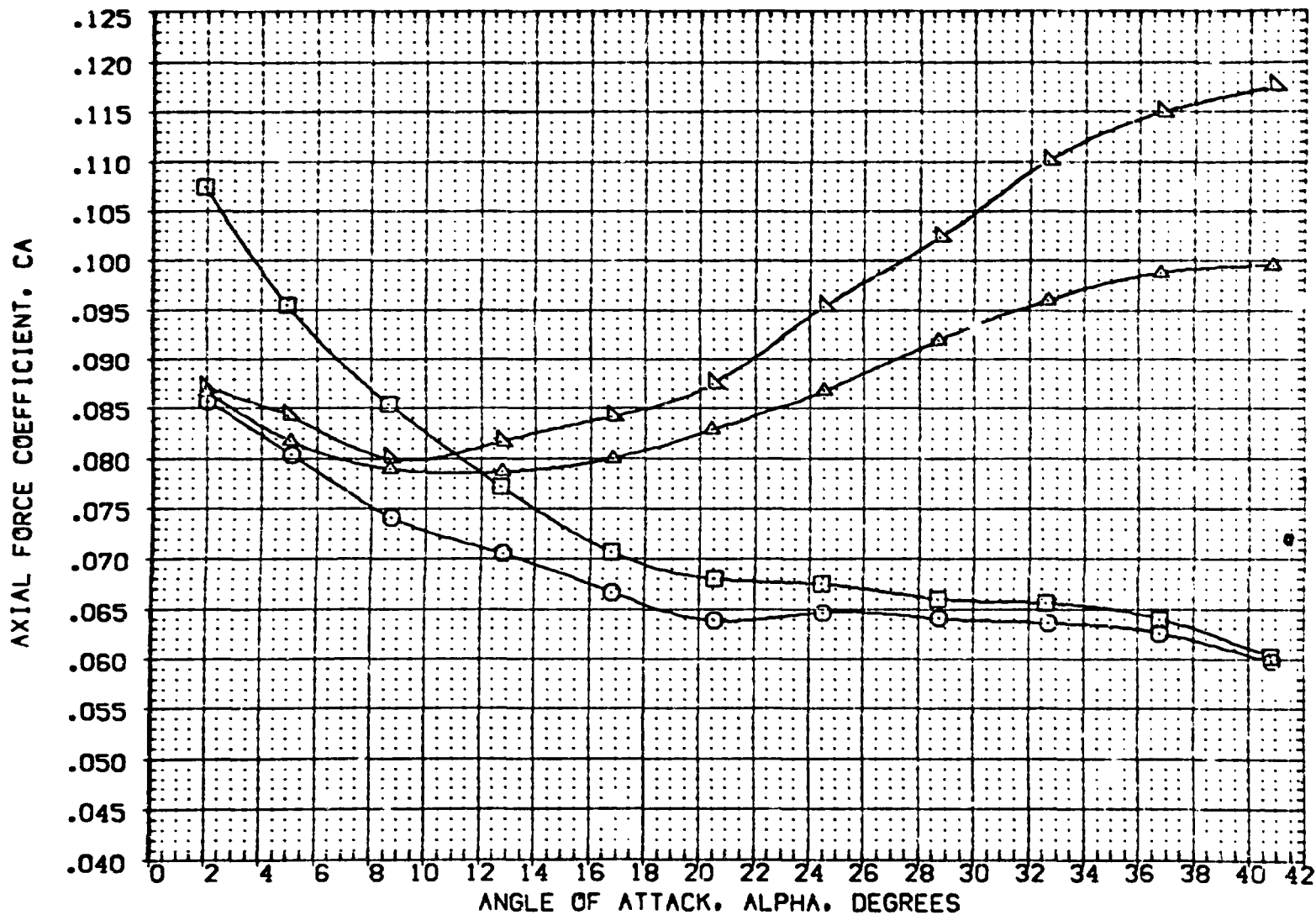


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBG001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CBG003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CBG004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	-20.000	-14.250	55.000	.000	SREF 935.6100 IN.
(CBG005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	15.000	-14.250	55.000	.000	YMRP 1076.4100 IN.
(CBG09A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	15.000	13.750	55.000	.000	ZMRP .0000 IN.
						SCALE 100.0000 IN.
						SCALE .0150 SCALE

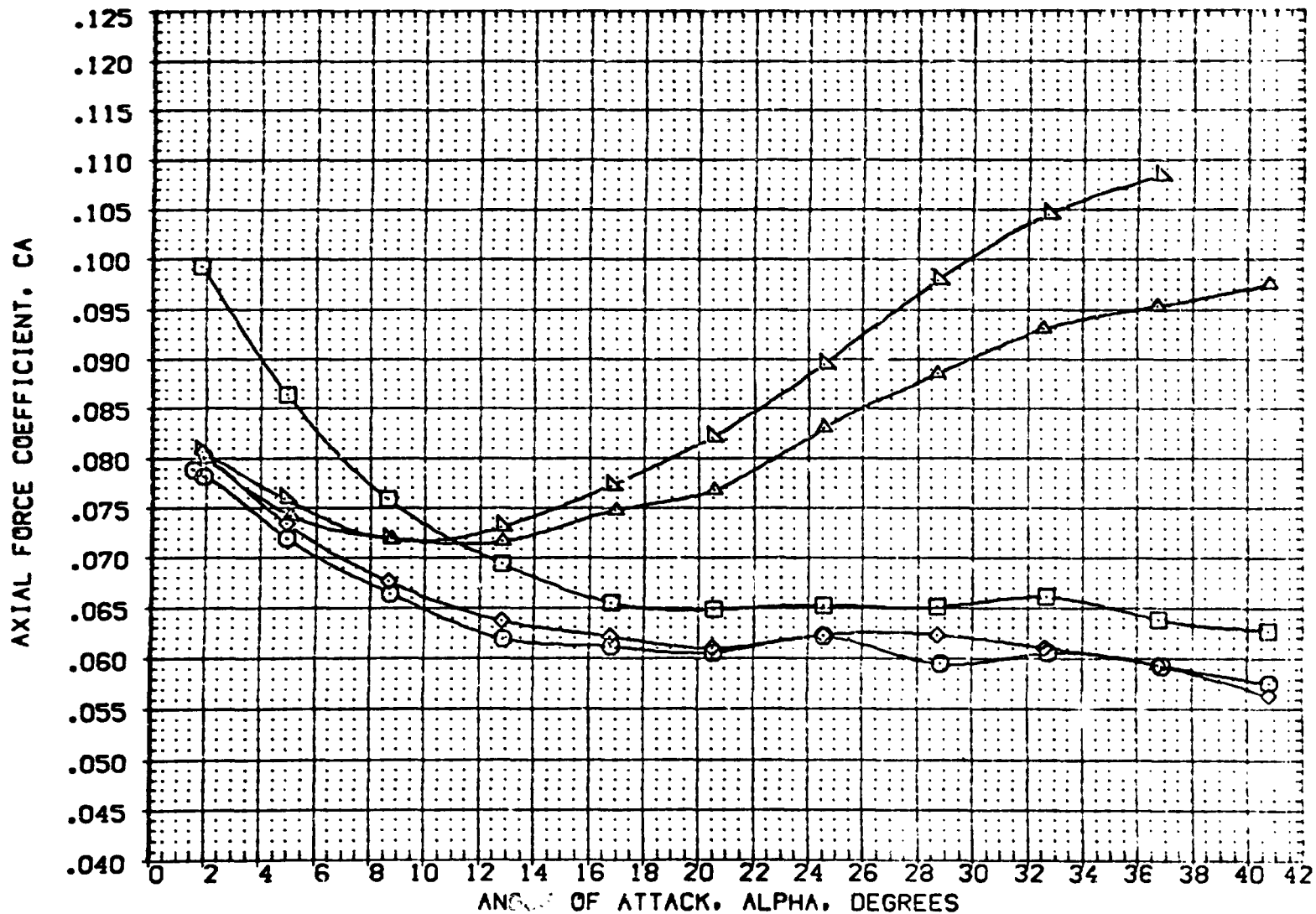


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C96001)	AMES3.9-168 OA23 B22 C7 E23 F5 H R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(C96003)	AMES3.9-168 OA23 B22 C7 E23 F5 H R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.0000 IN.
(C96004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C96005)	AMES3.9-168 CA23 B22 C7 E23 F5 H R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C9609A)	AMES3.9-168 OA23 B22 C7 E23 F5 H R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

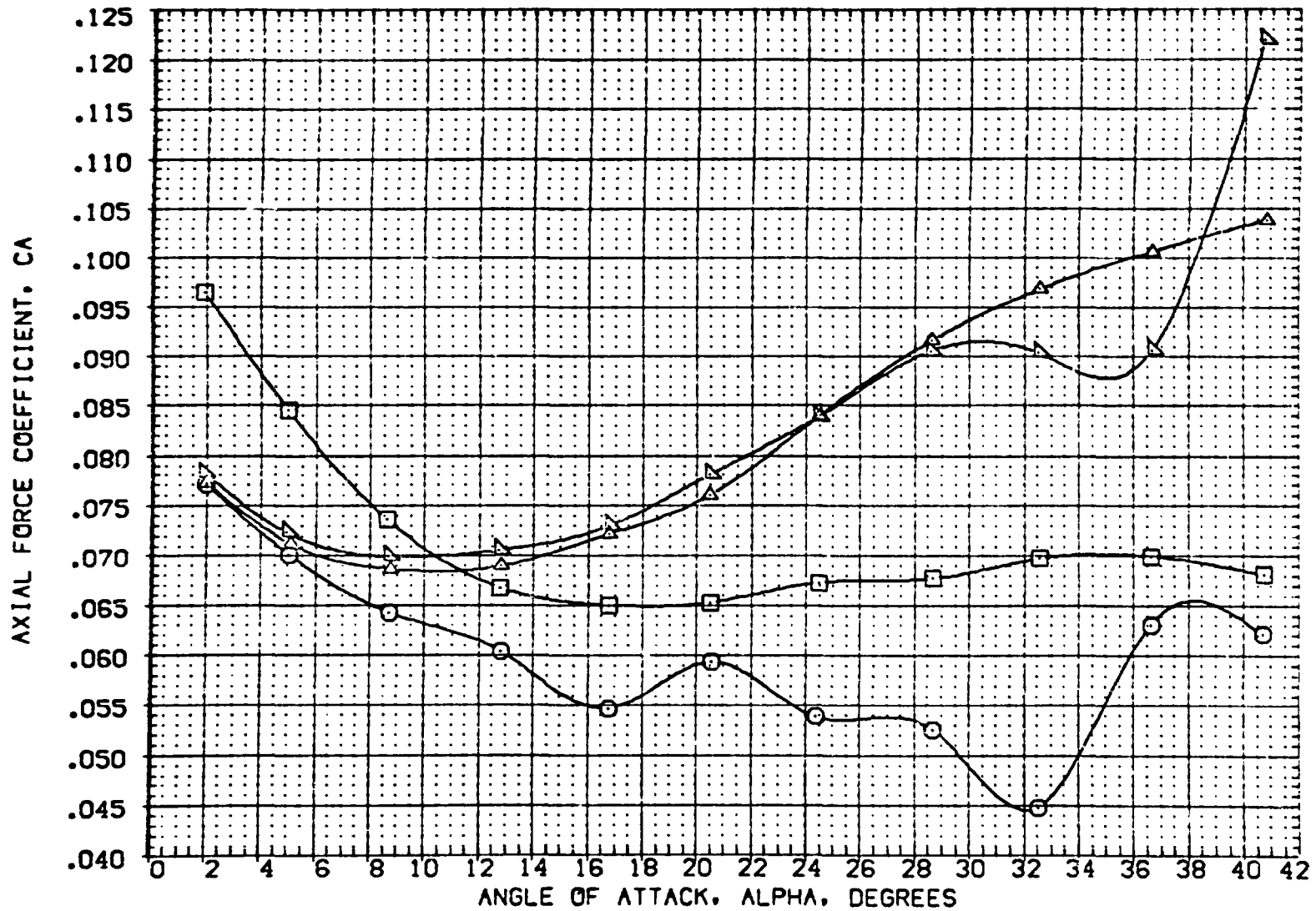


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
					.000	ZMRP 400.0000 IN.
						SCALE .0150

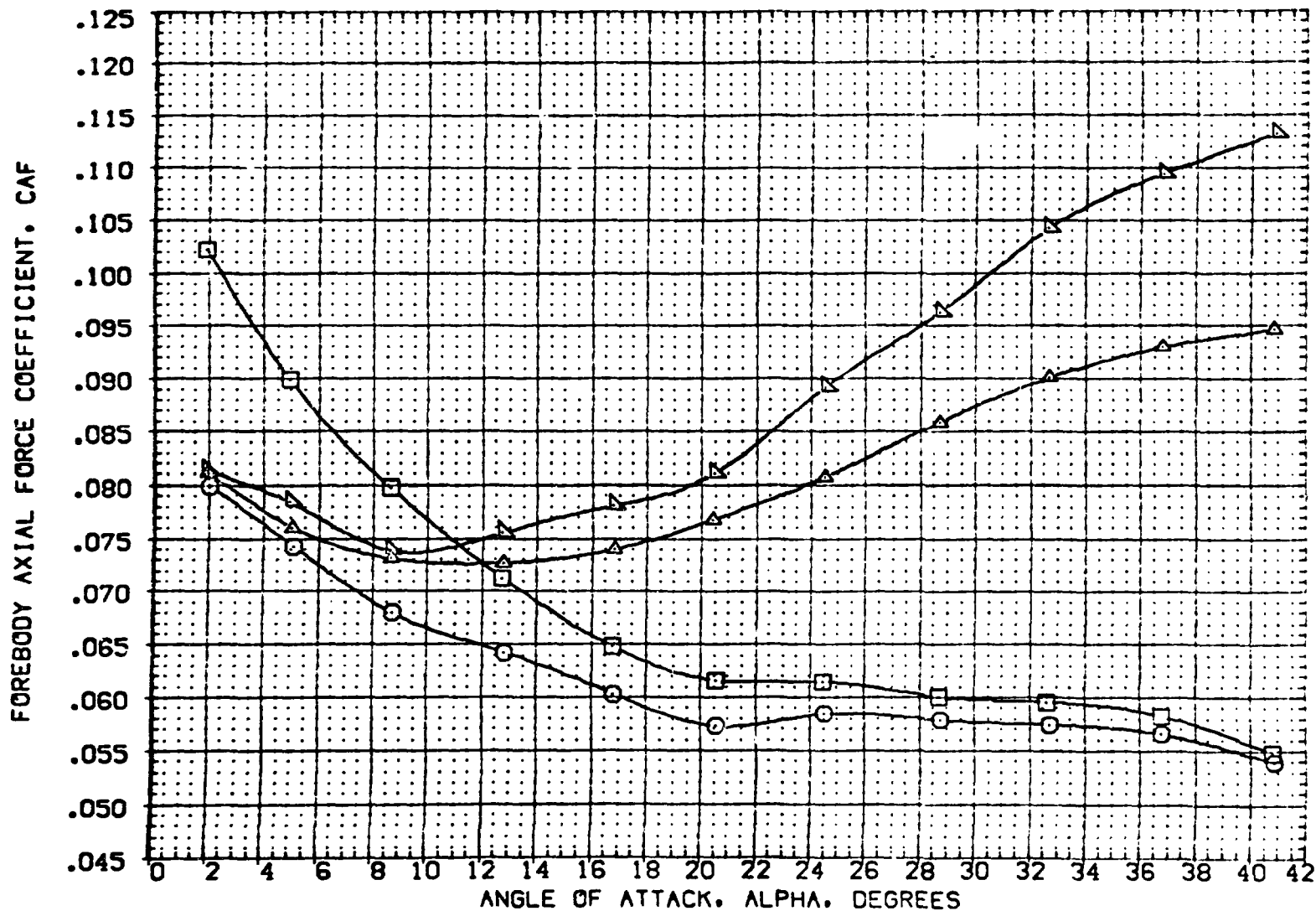


FIG. 4 ELEVON EFFECTS
 (A) MACH = 5.26
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBG001)	AMES3.5-168 OA23 B22 C7 E23 FS H R V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CBG003)	AMES3.5-168 OA23 B22 C7 E23 FS H R V7 V107	-40.000	-14.250	55.000	.000	LREF 474.6000 IN.
(CBG004)	AMES3.5-168 OA23 B22 C7 E23 FS H R V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CBG005)	AMES3.5-168 OA23 B22 C7 E23 FS H R V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CBG09A)	AMES3.5-168 OA23 B22 C7 E23 FS H R V7 V107	15.000	13.750	55.000	.000	YMRP 100.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

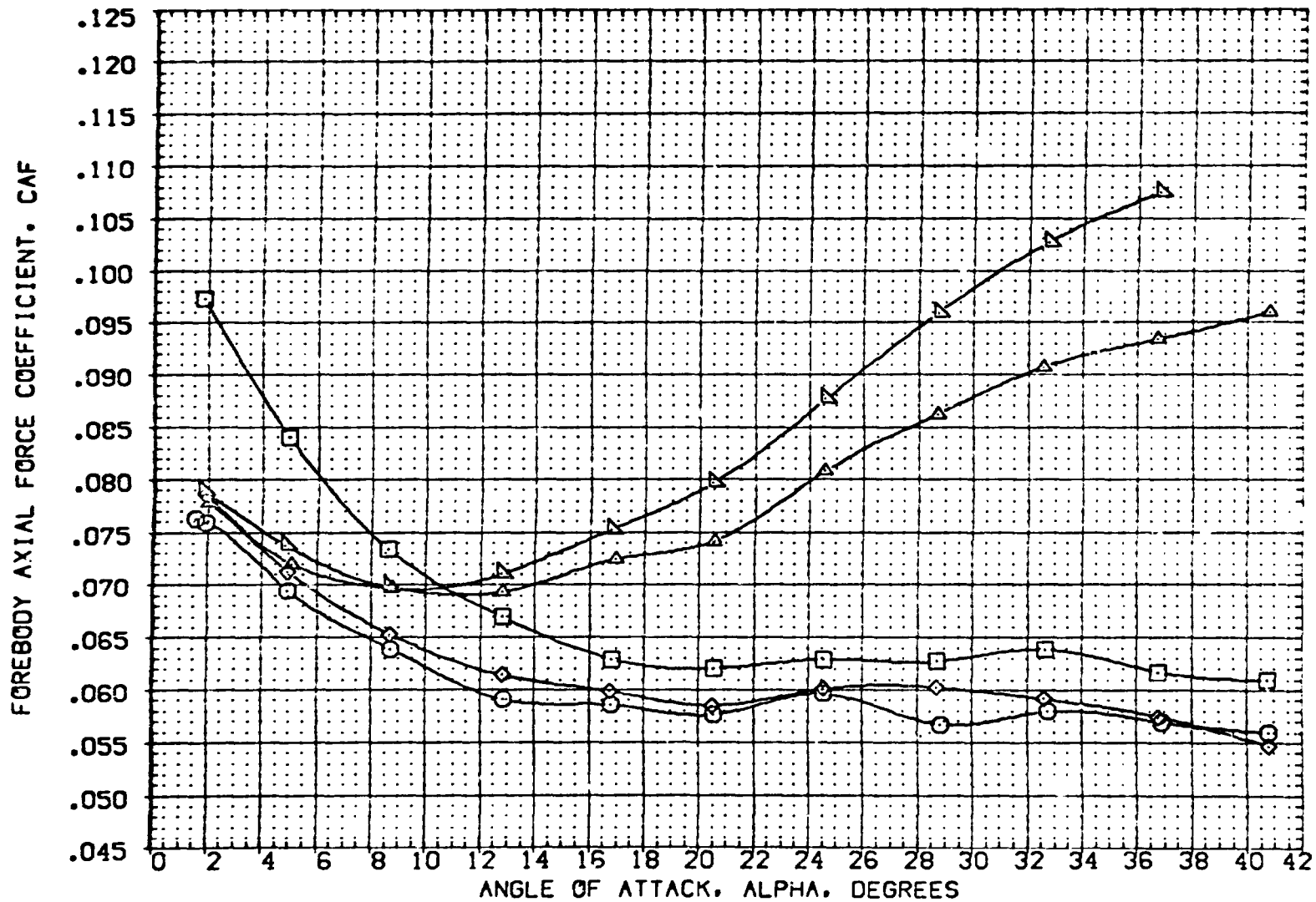


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

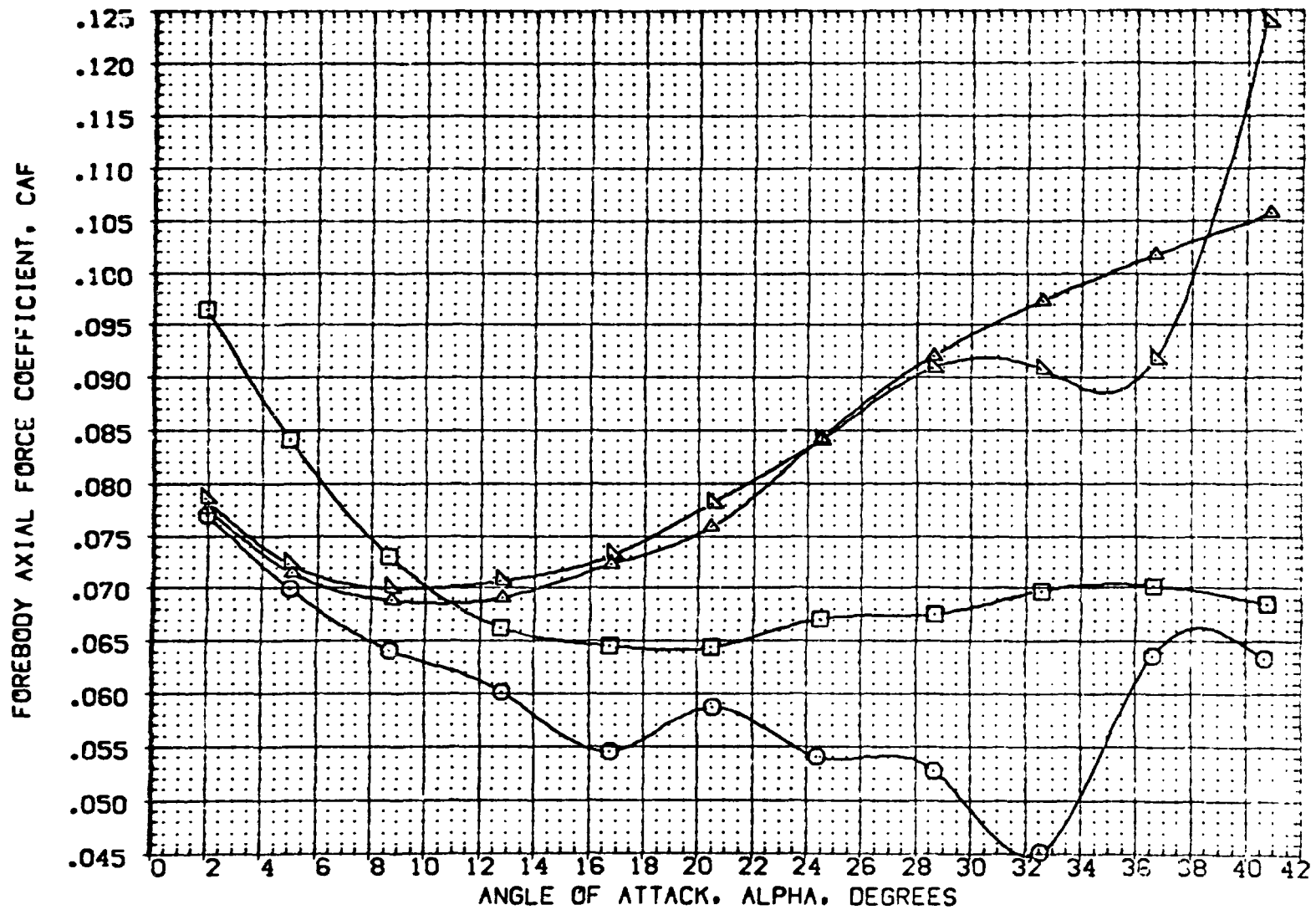


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(C86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6300 IN.
(C86005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4900 IN.
(C8602A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

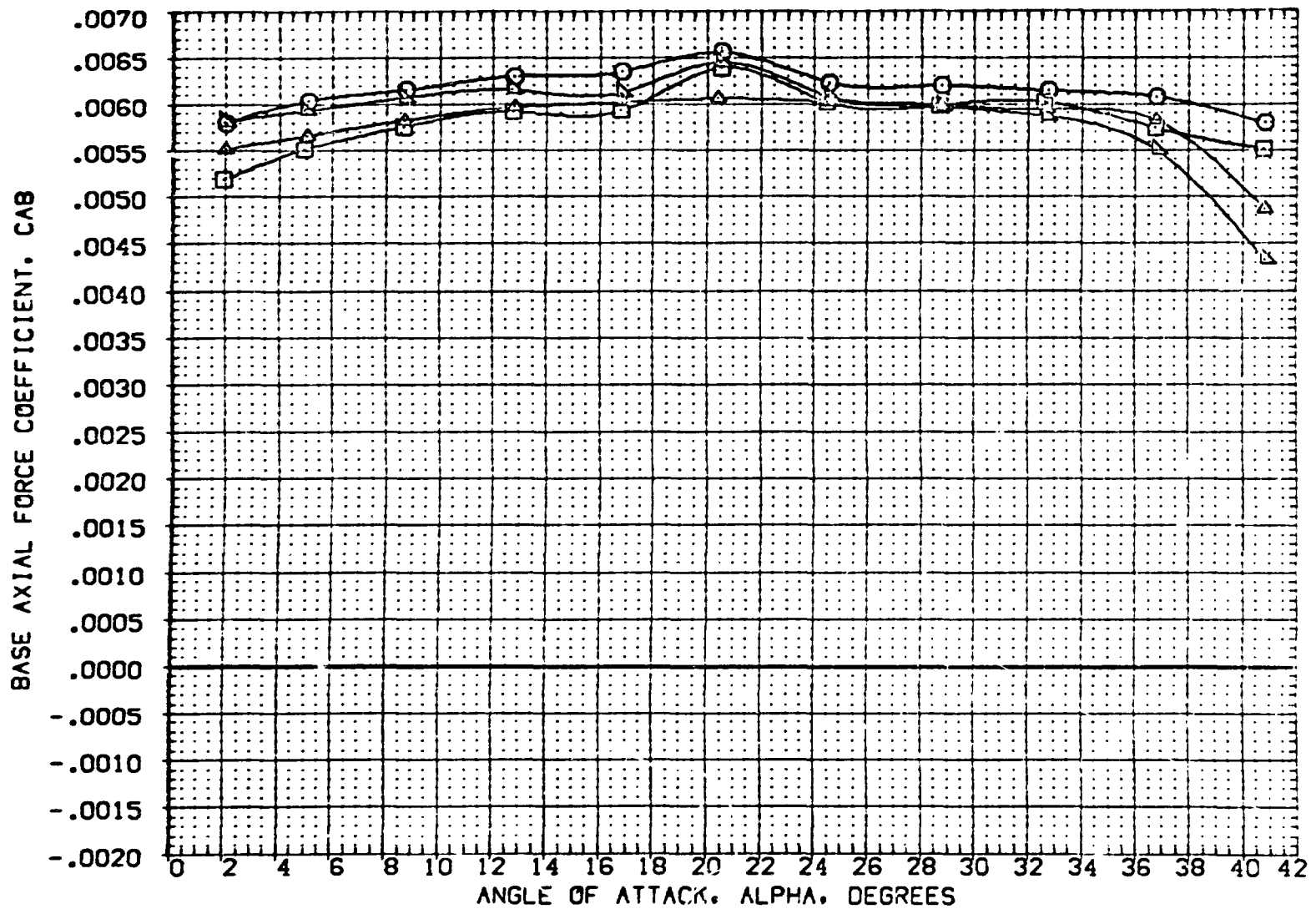


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A) MACH = 5.26 PAGE 19

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP 1000.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

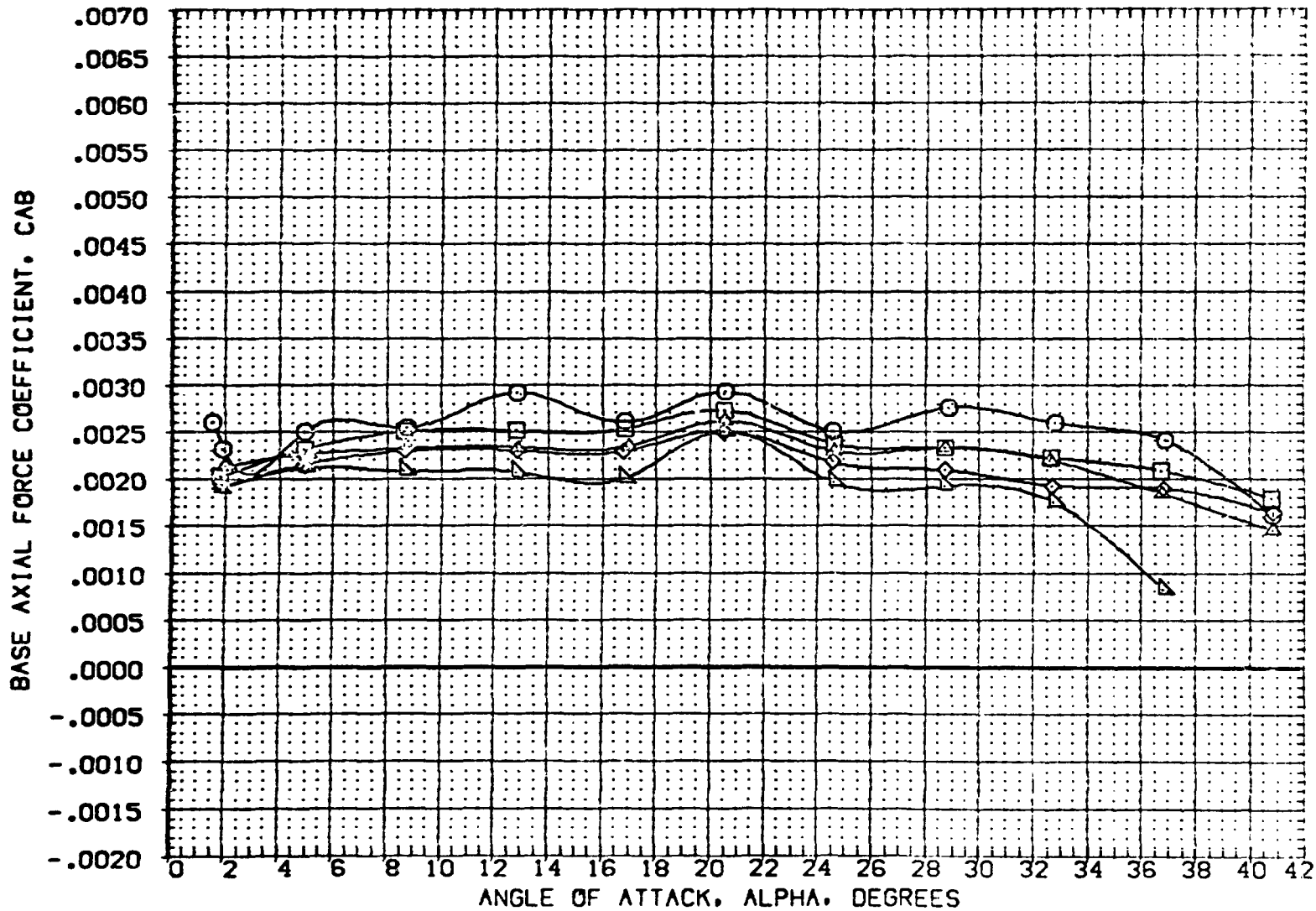


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
{CB6001}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
{CB6003}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
{CB6004}	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 935.6800 IN.
{CB6005}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
{CB609A}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

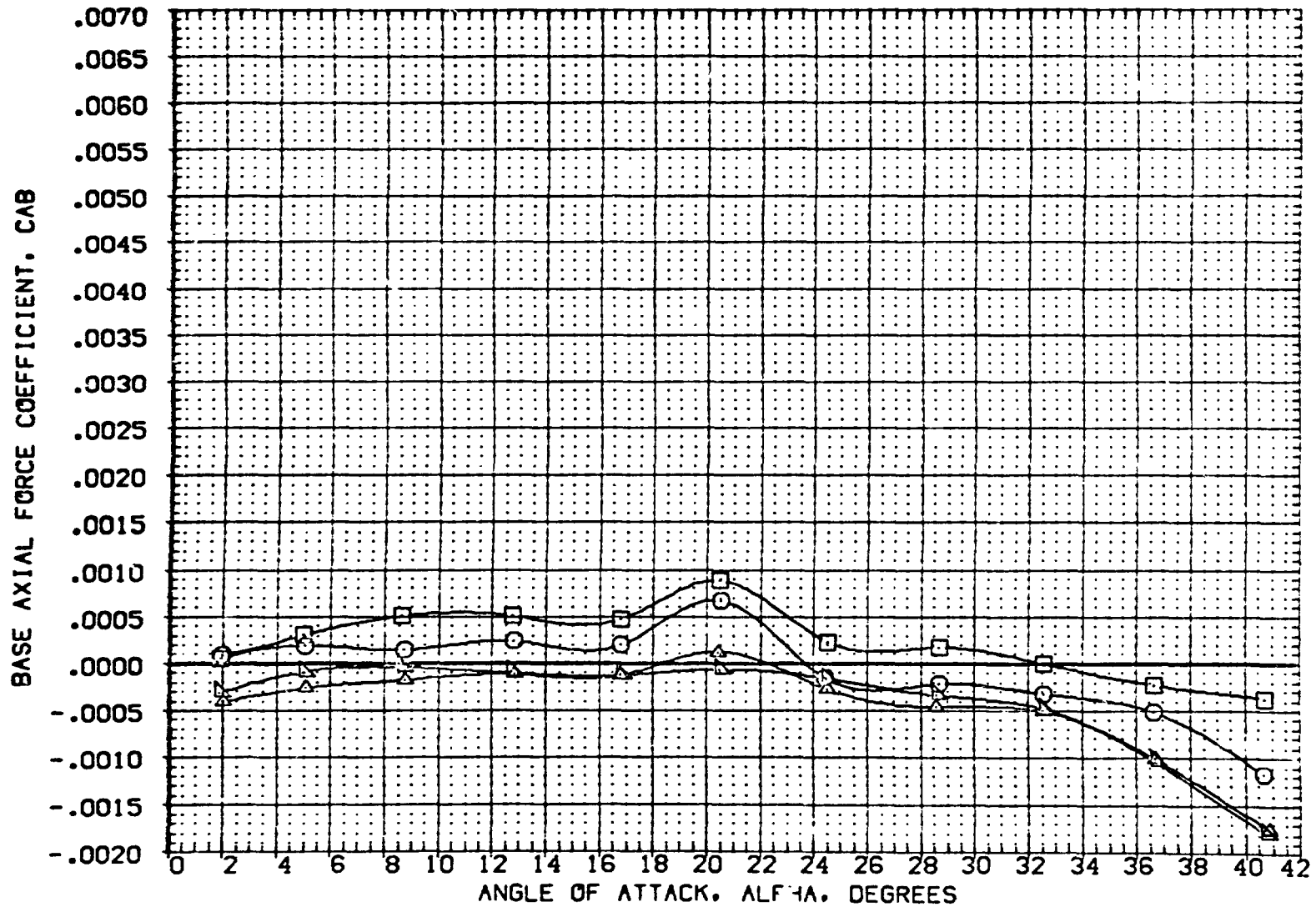


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 935.6900 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

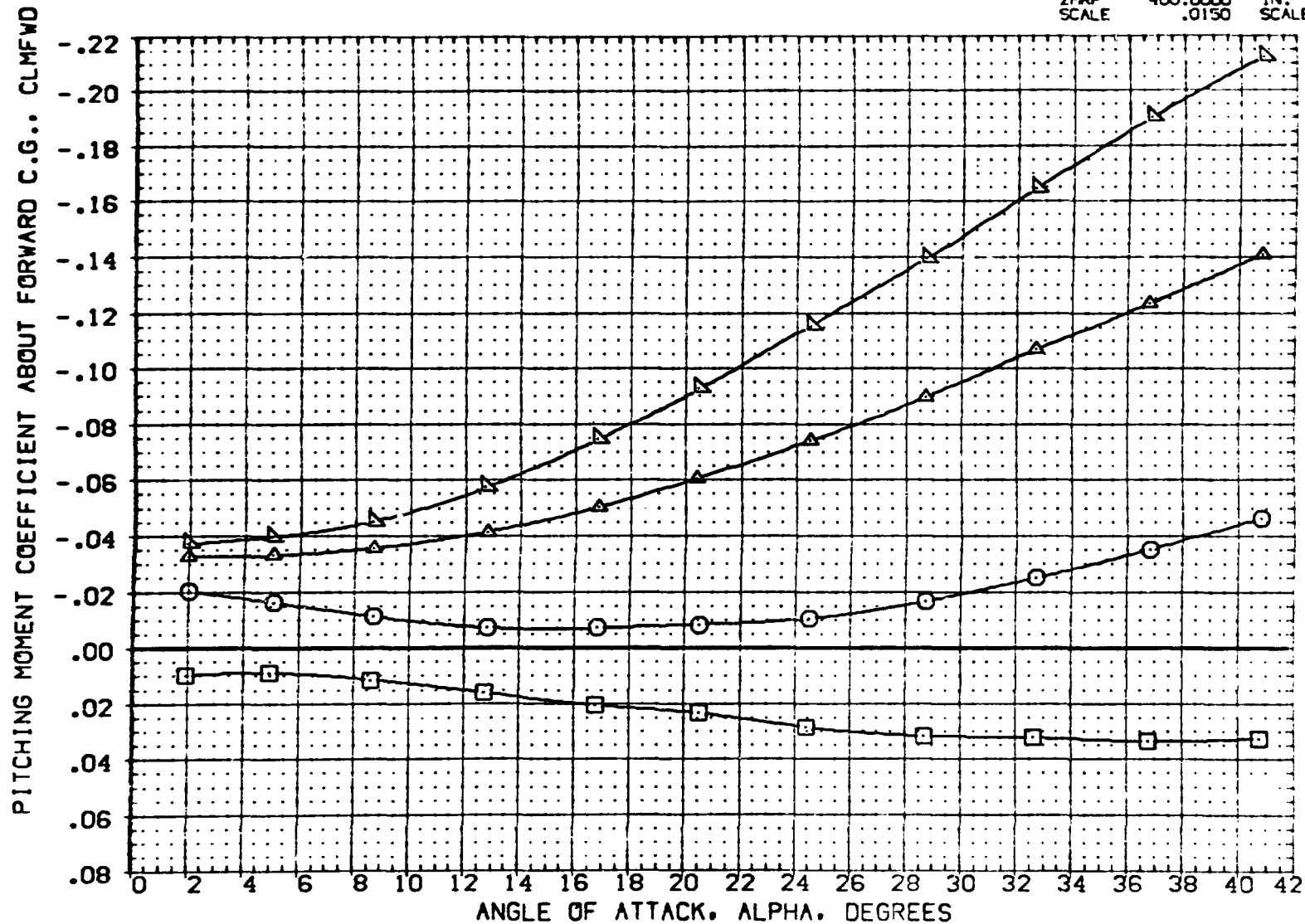


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H 34 J3338 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H 34 J3338 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H 34 J3338 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H 34 J3338 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H 34 J3338 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

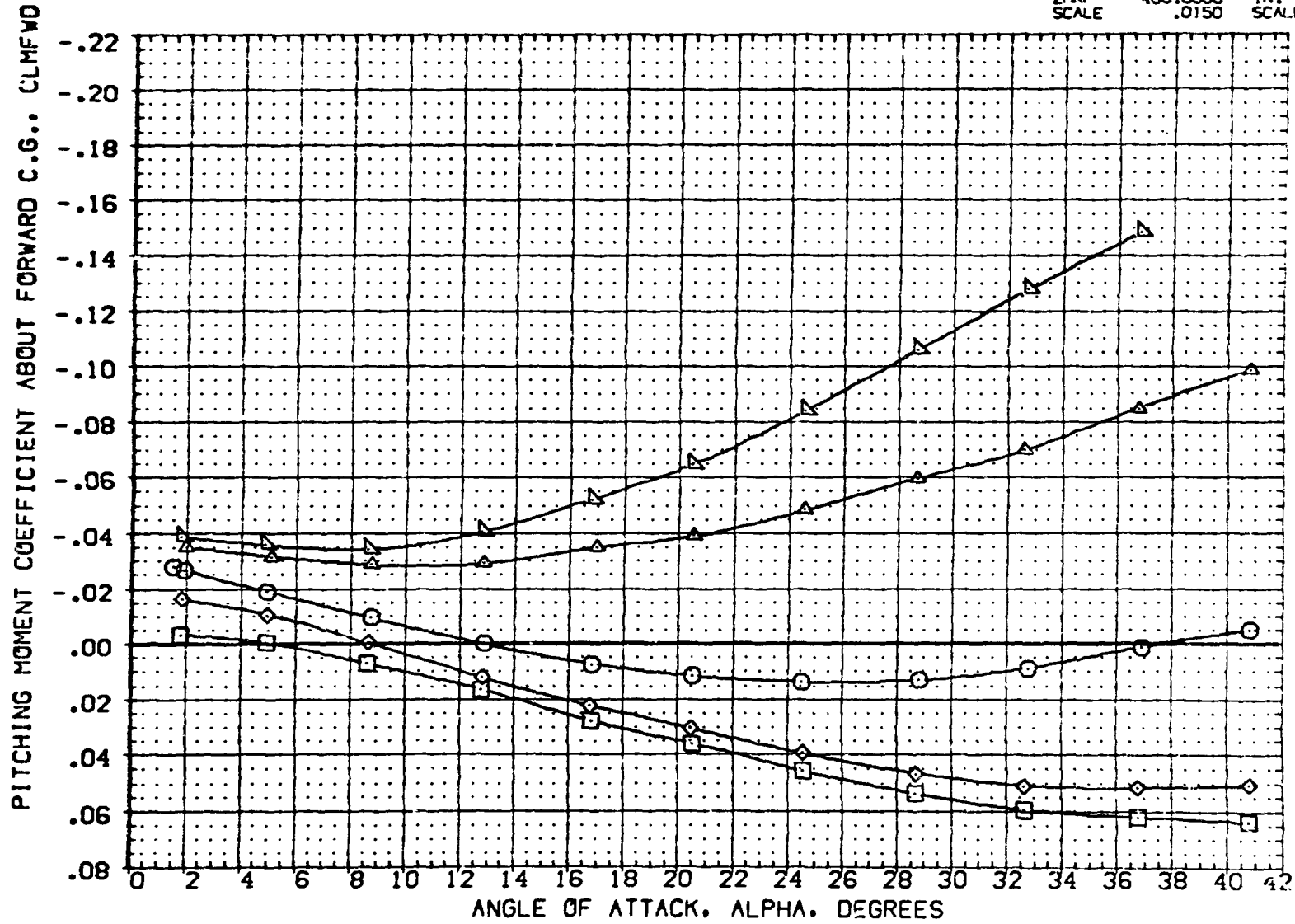


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

P. 00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	PRF 936.6000 IN.
(CB6005)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	YMRP 1076.0000 IN.
(CB609A)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	ZMRP 0000 IN.
						SCALE 100.0000 IN.
						SCALE .0150 SCALE

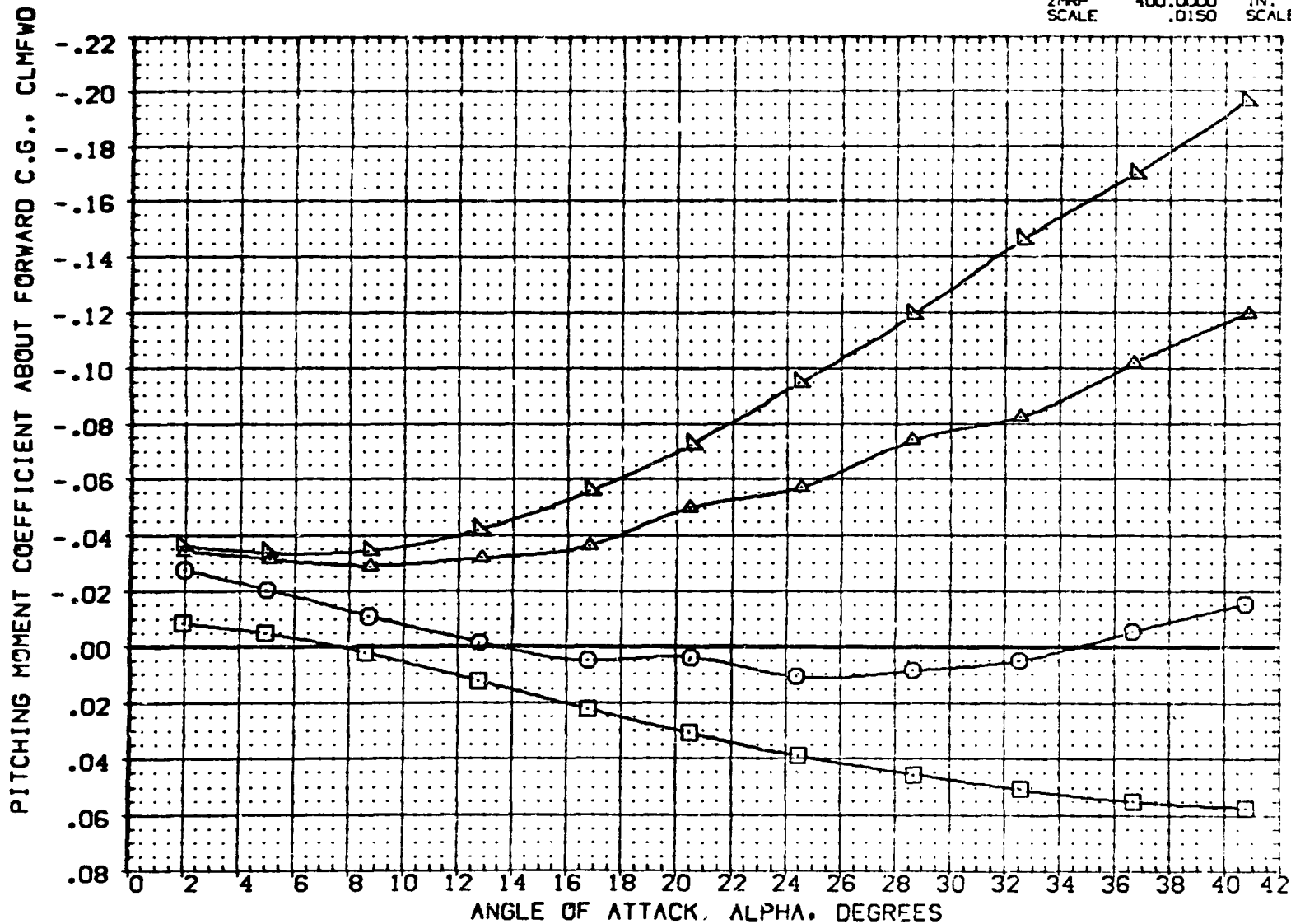


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1075.4800 IN.
(CB609A)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

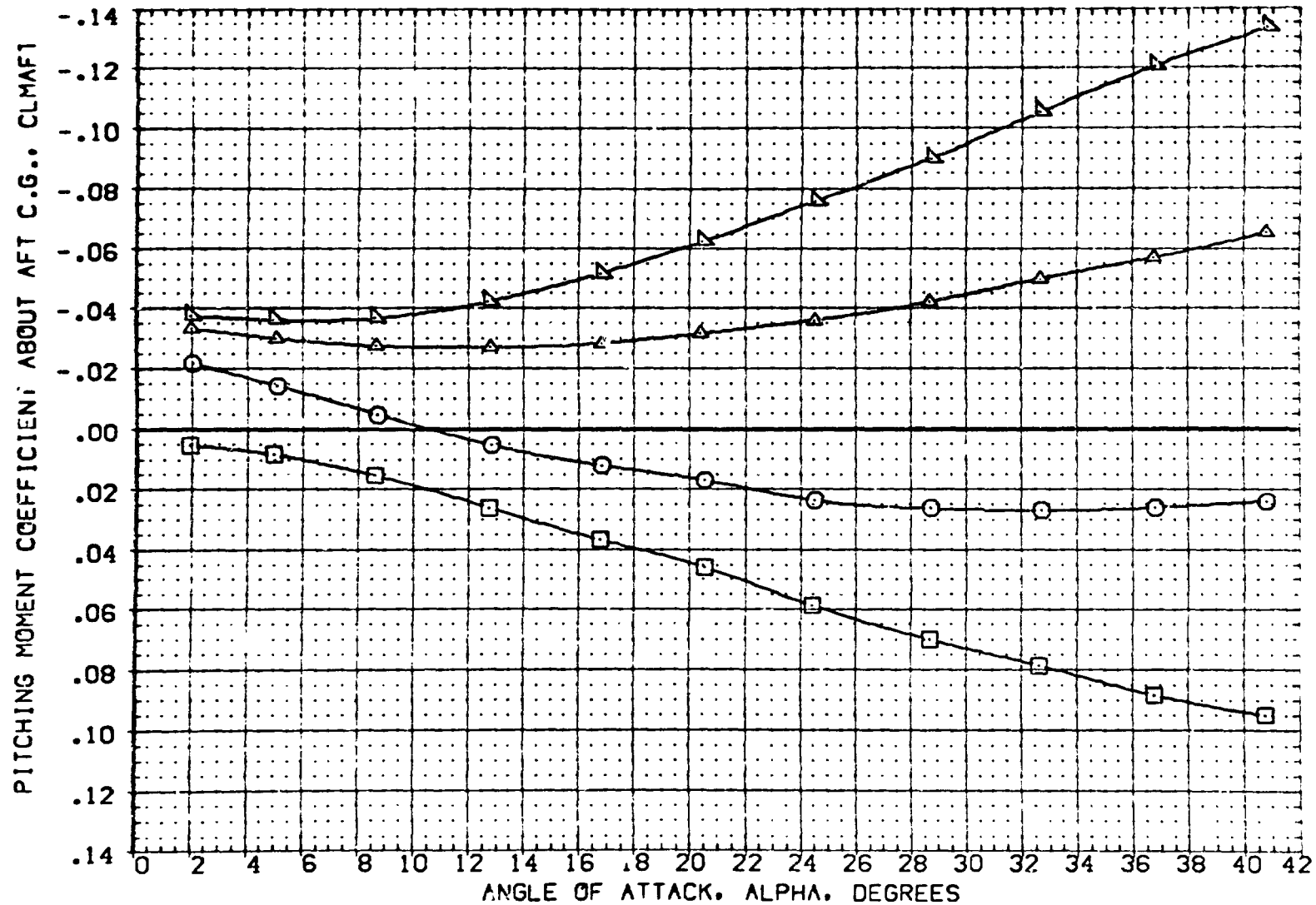


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C86001)	AMES3.5-168 OA23 822 LBLBL	15.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(C86003)	AMES3.5-168 OA23 822 LBLBL	15.000	-14.250	55.000	.000	LREF 474.6000 IN.
(C86004)	AMES3.5-168 OA23 822 LBLBL	15.000	-14.250	55.000	.000	BREF 93.6800 IN.
(C86005)	AMES3.5-168 OA23 822 LBLBL	15.000	-14.250	55.000	.000	XMRP 10.6480 IN.
(C8609A)	AMES3.5-168 OA23 822 LBLBL	15.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

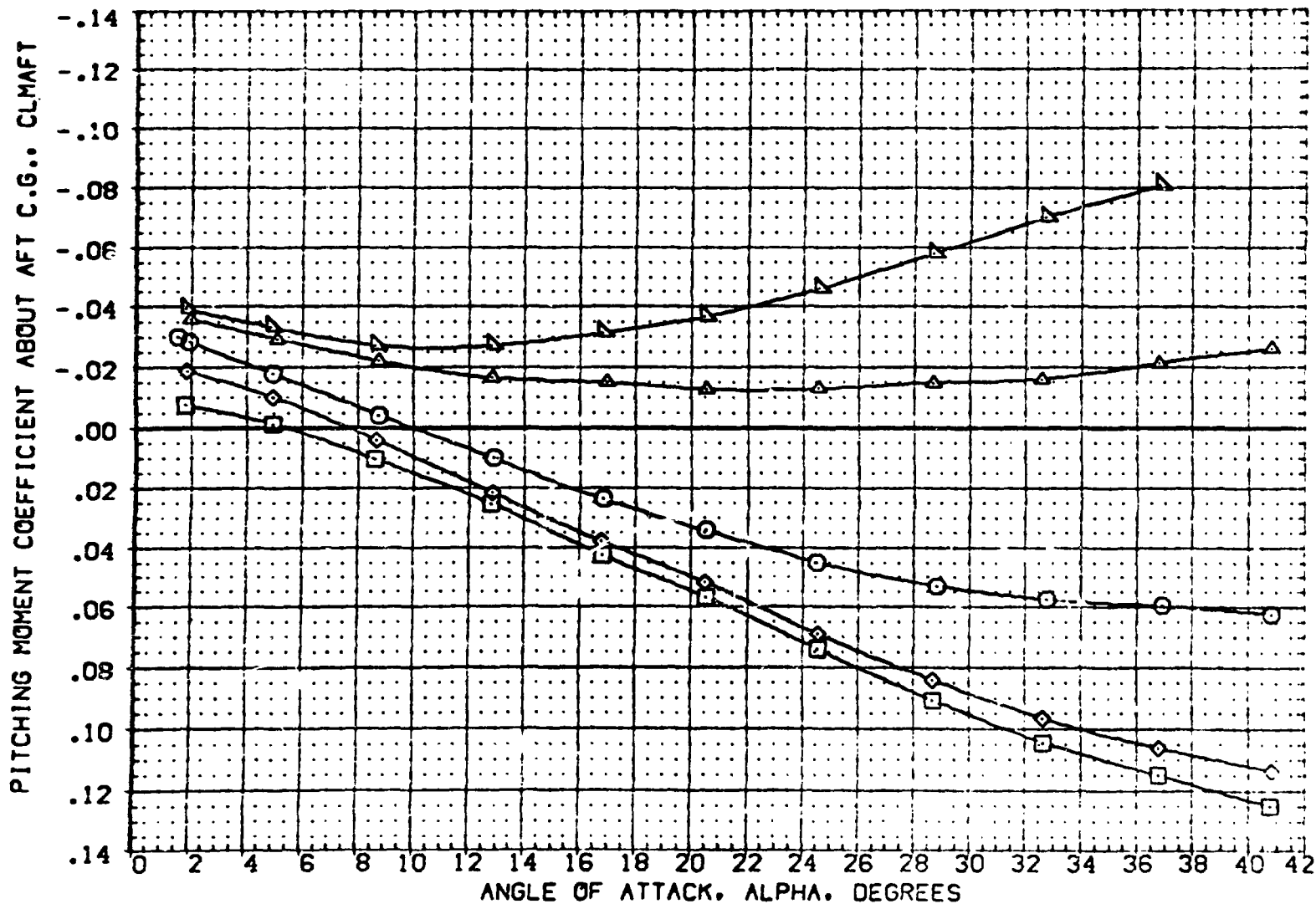


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
[CB6001]	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-46.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
[CB6003]	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-46.000	-14.250	55.000	.000	LREF 474.8000 IN.
[CB6004]	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
[CB6005]	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4600 IN.
[CB603A]	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

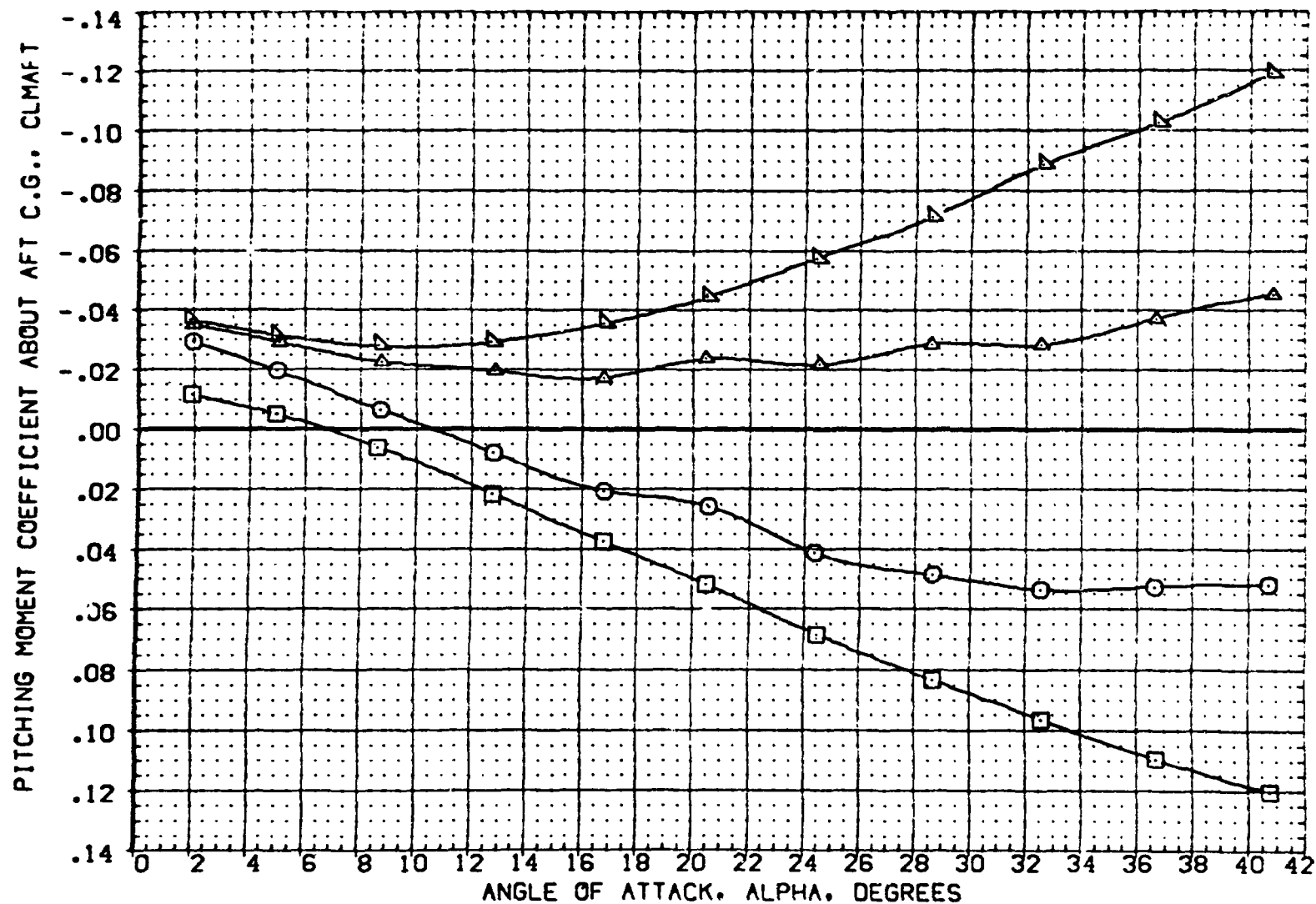


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ROFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBG001)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CBG003)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CBG004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CBG005)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CBG09A)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

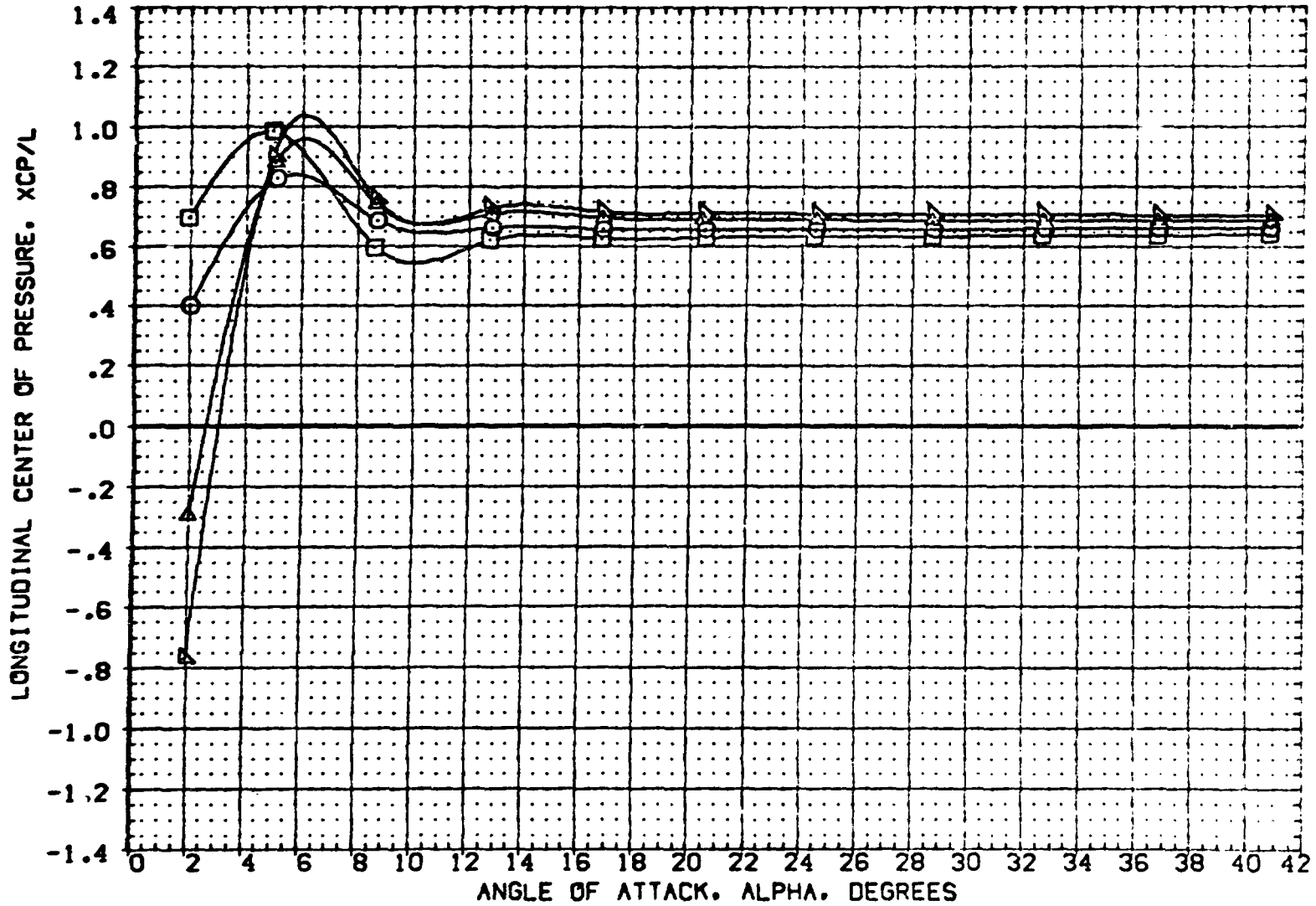


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	15.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	-16.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.1800 IN.
(CB609A)	AMES3.-168 OA23 B22 C7 E23 F5 H4 R3333 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

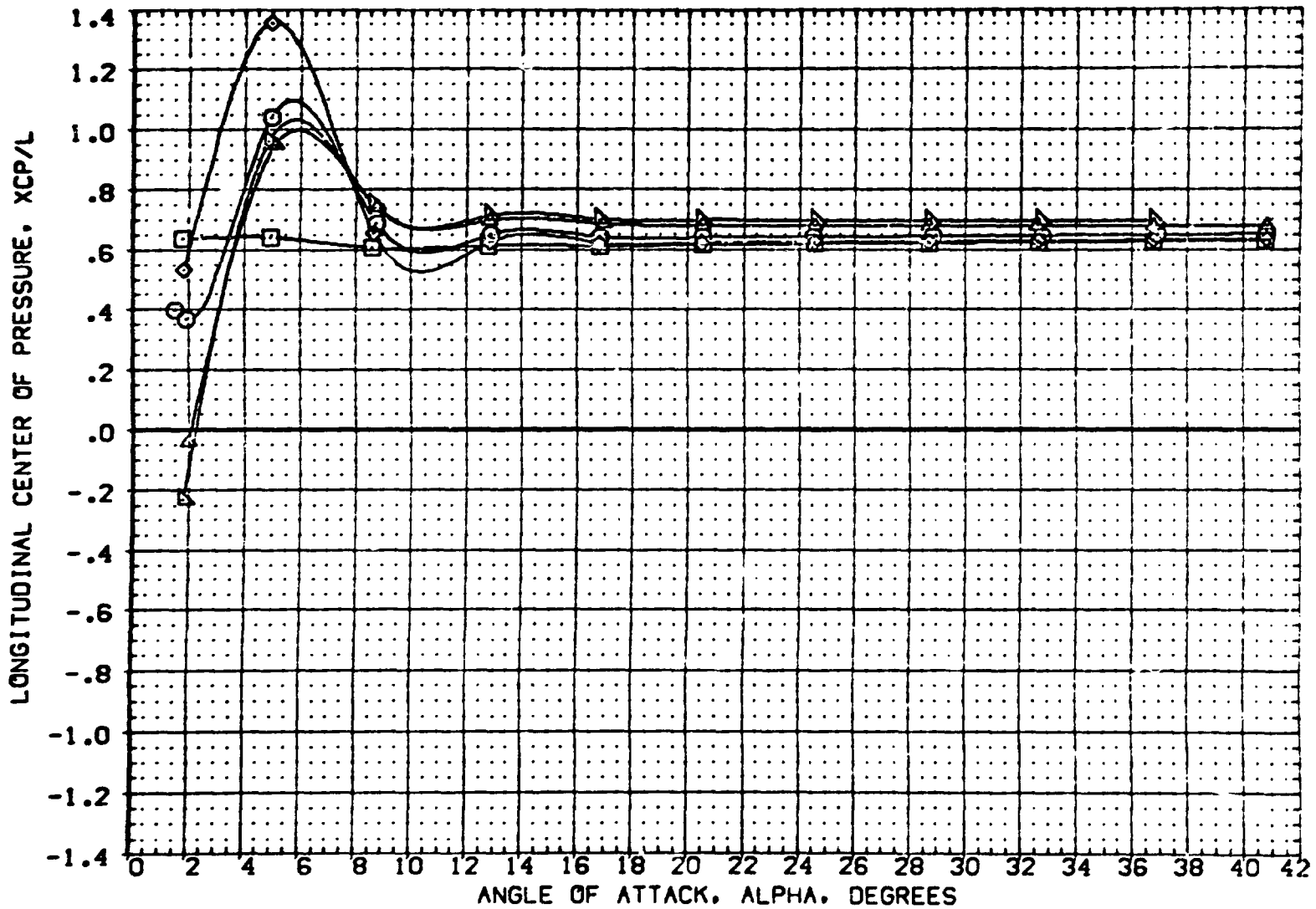


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 FS M R5 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 FS M R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.0000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	EREF 926.0000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 FS M R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB608A)	AMES3.5-168 OA23 B22 C7 E23 FS M R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

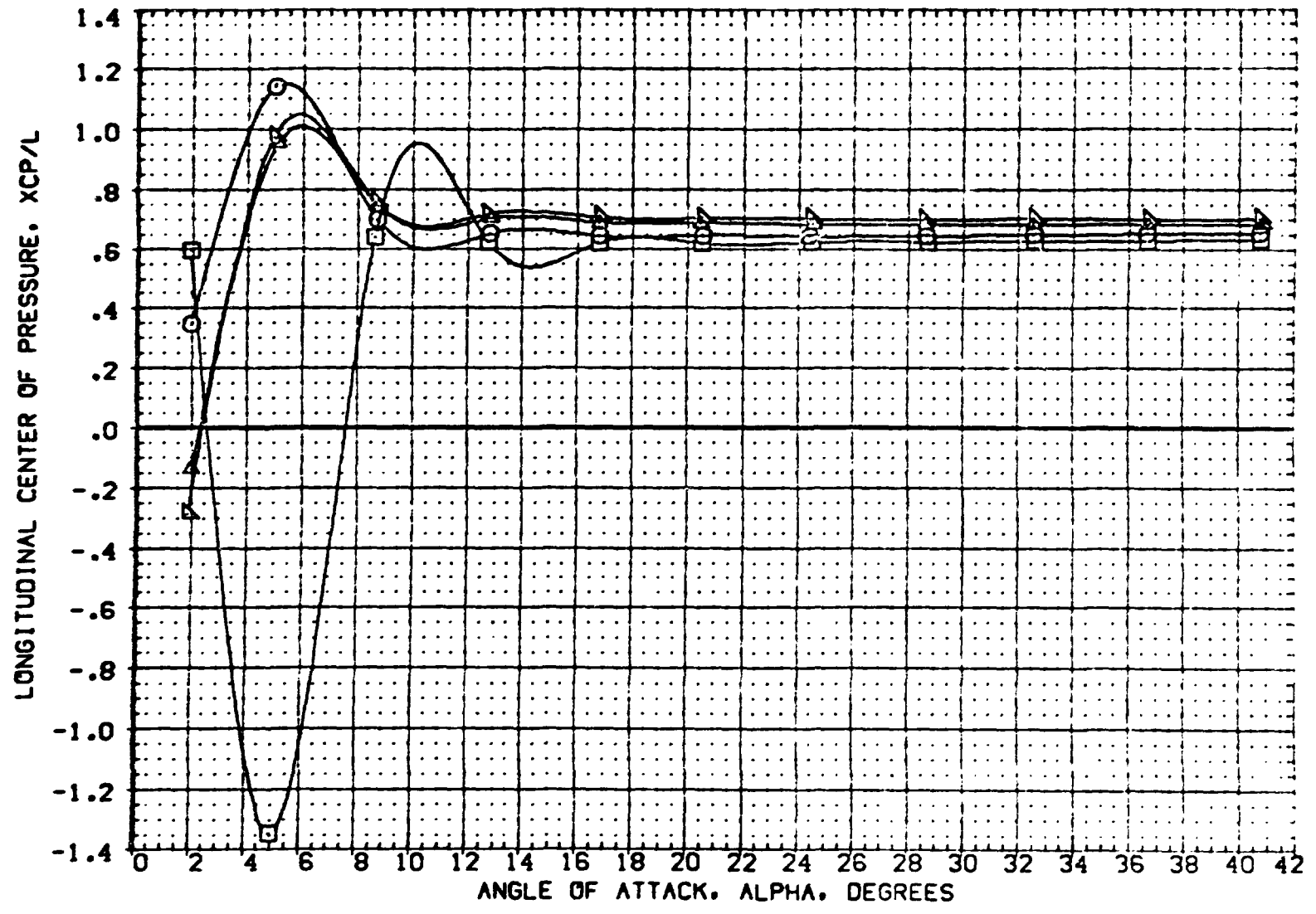


FIG. 4 ELEVON EFFECTS
 (C)MACH = 10.29
 147B CONFIGURATION (0.015-SCALE).
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B06001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B06003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(F0004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(F0005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B0609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

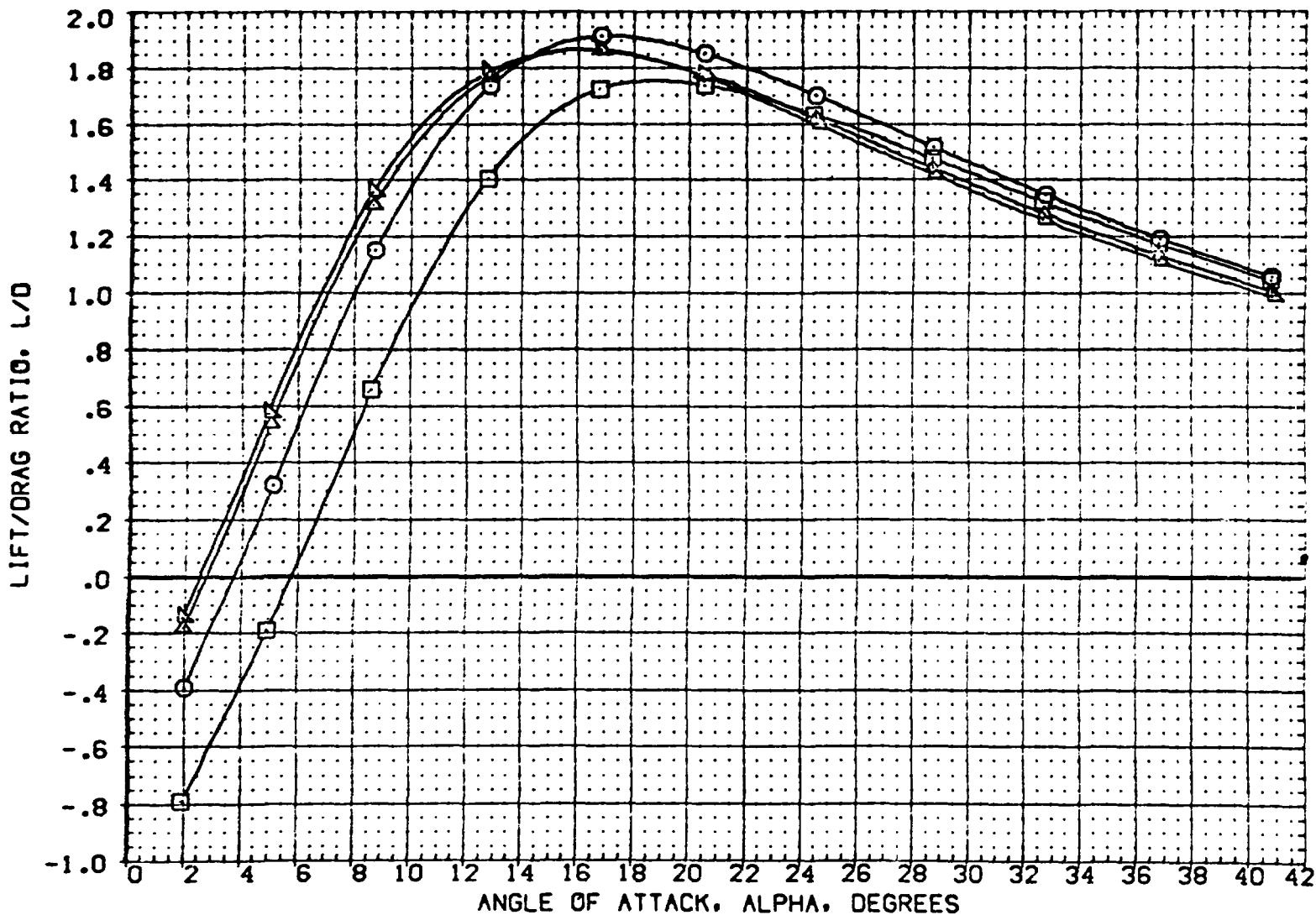


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 33333 57 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 33333 57 V107	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B86004)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 33333 57 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B86005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 33333 57 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B8609A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 33333 57 V107	15.000	13.750	55.000	.000	YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

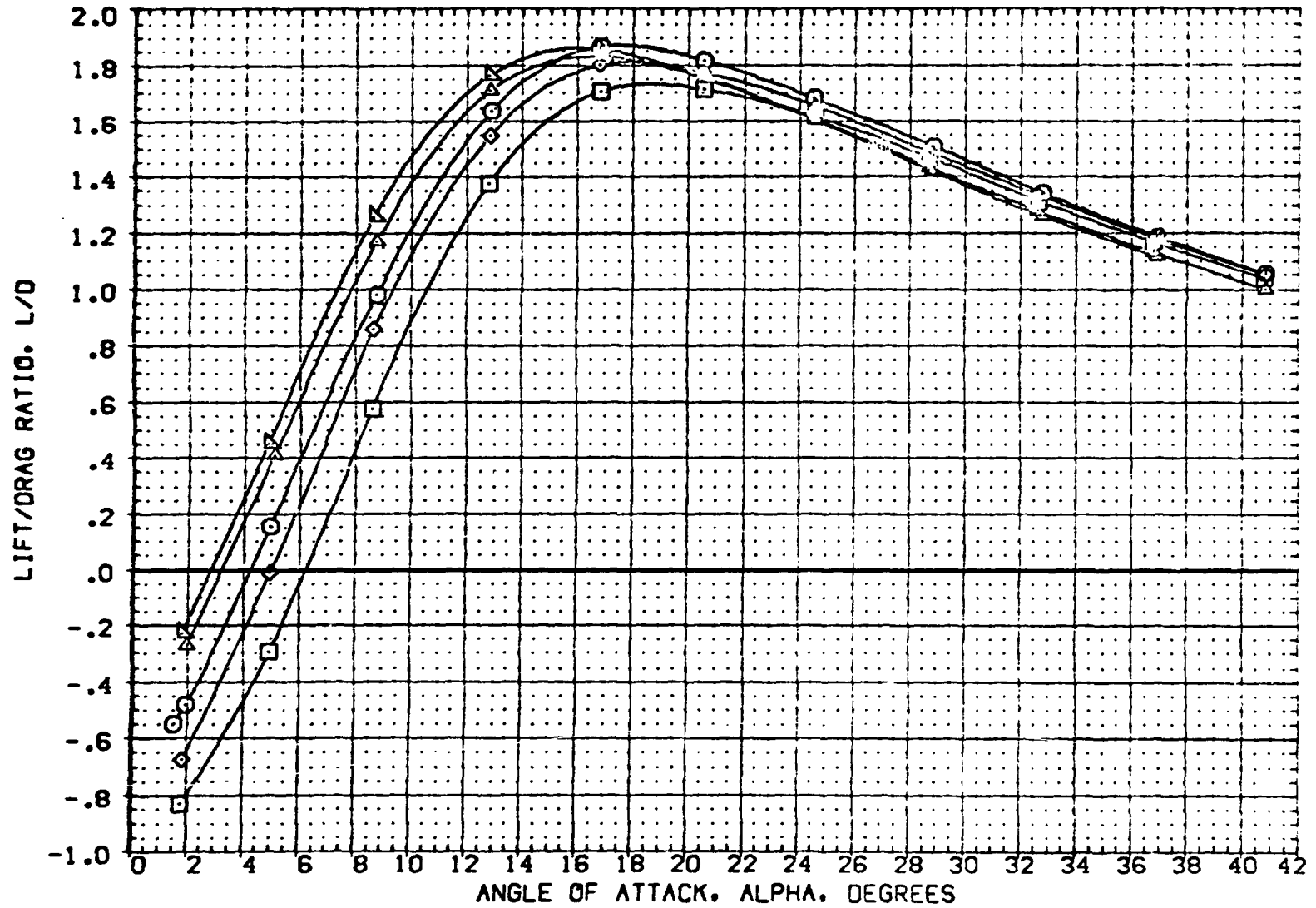


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32 PAGE 32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(BB6001)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(BB6003)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(BZ6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(BZ6005)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(BB605A)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

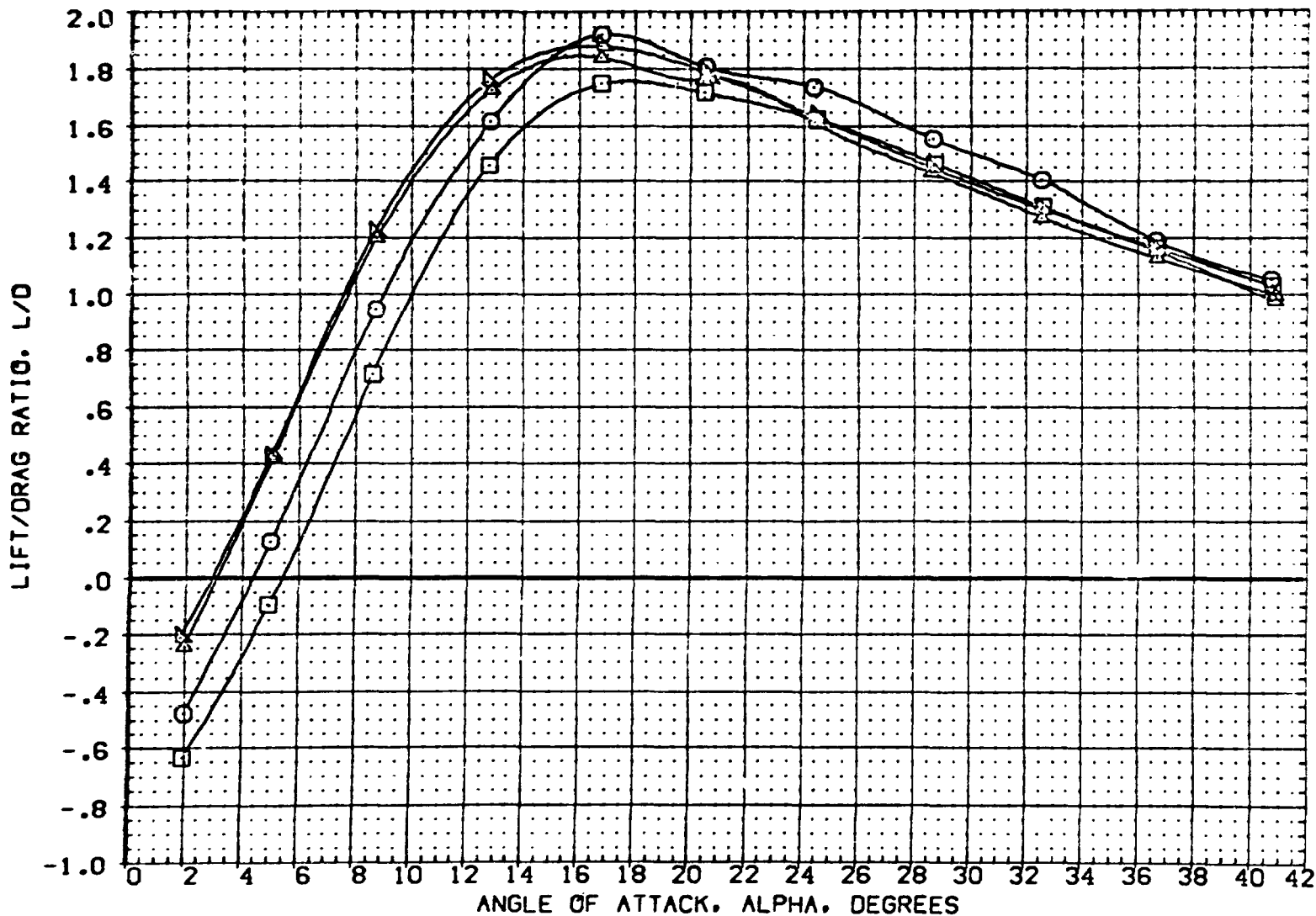


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

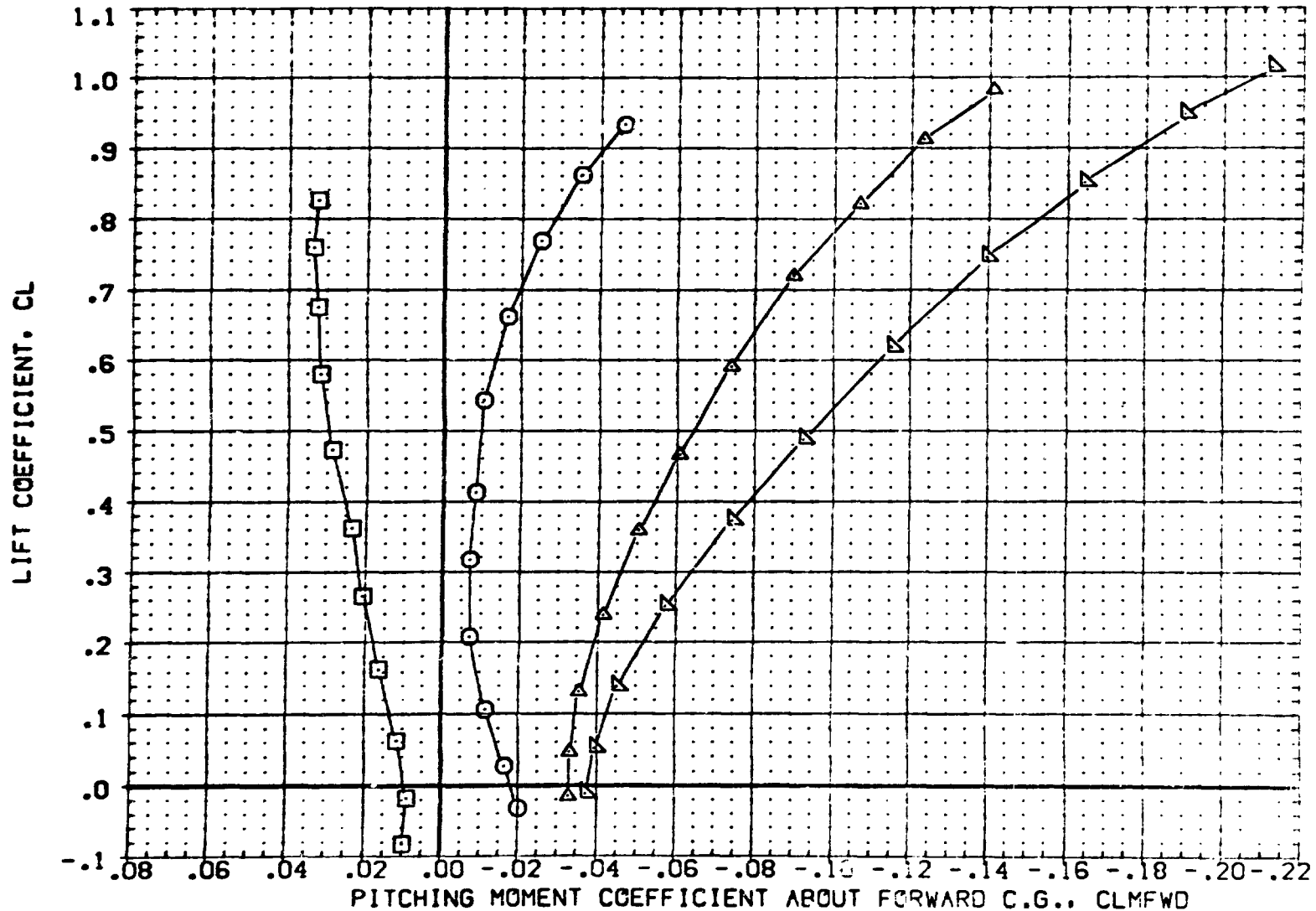


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	APES3.5-168 OA23 B22 C7 E23 F3 H4 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	APES3.5-168 OA23 B22 C7 E23 F3 H4 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	APES3.5-168 OA23 B22 C7 E23 F3 H4 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6000 IN.
(CB6005)	APES3.5-168 OA23 B22 C7 E23 F3 H4 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
(CB609A)	APES3.5-168 OA23 B22 C7 E23 F3 H4 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

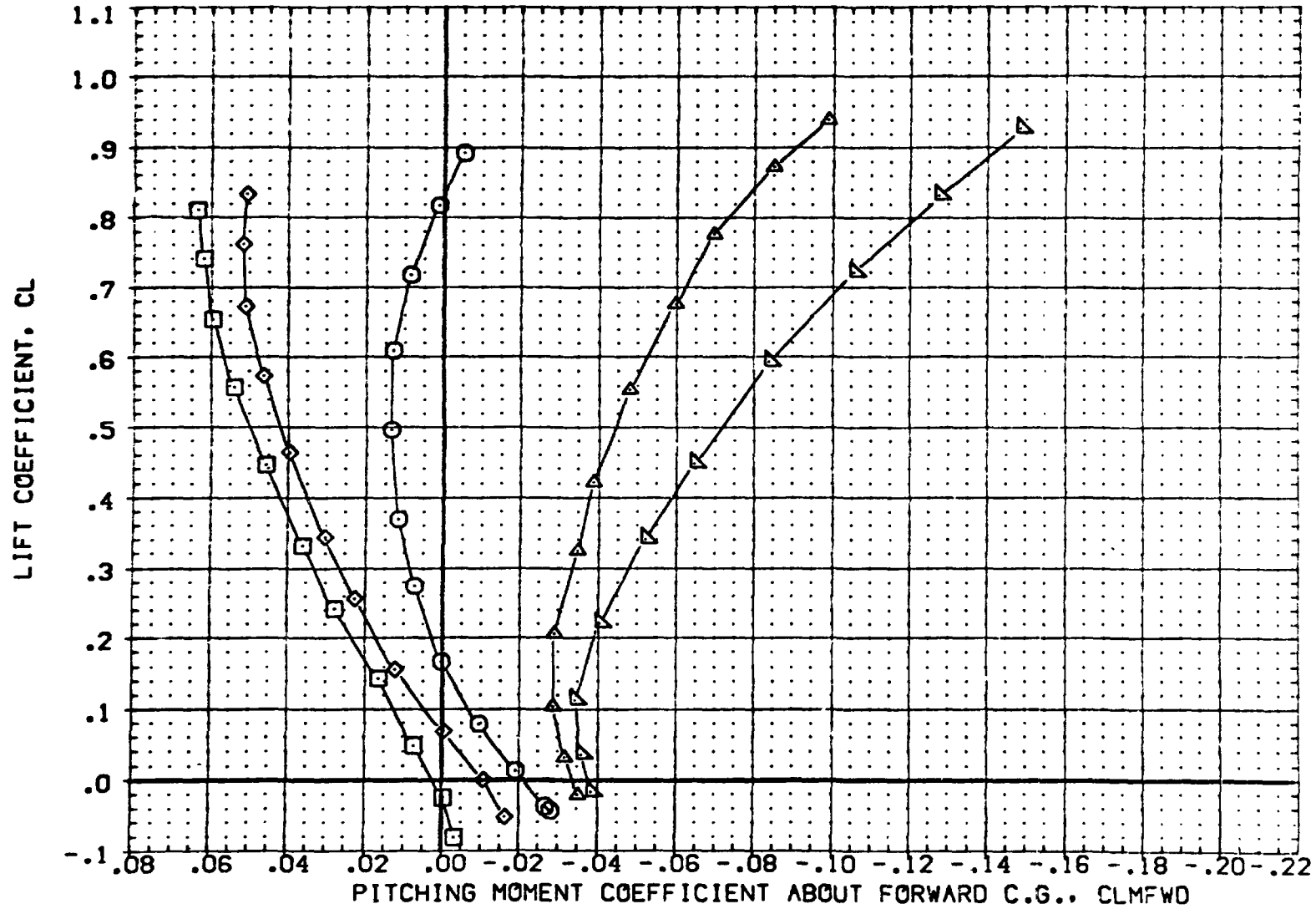


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.5600 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	XMSP 1076.4100 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	13.750	55.000	.000	YMSP 1076.4100 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

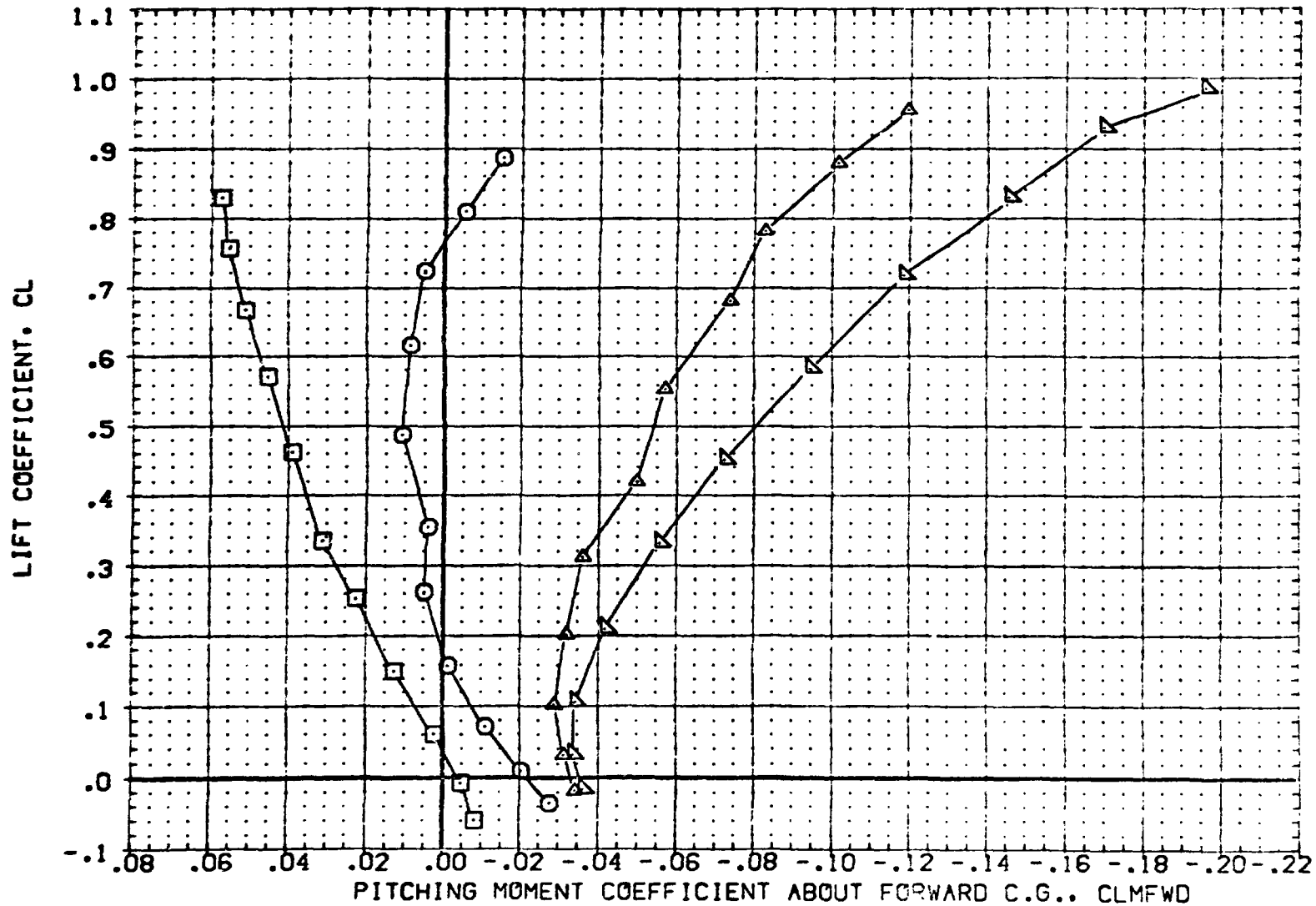


FIG. 4 ELEVON EFFECTS
 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDRBK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CB6003)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

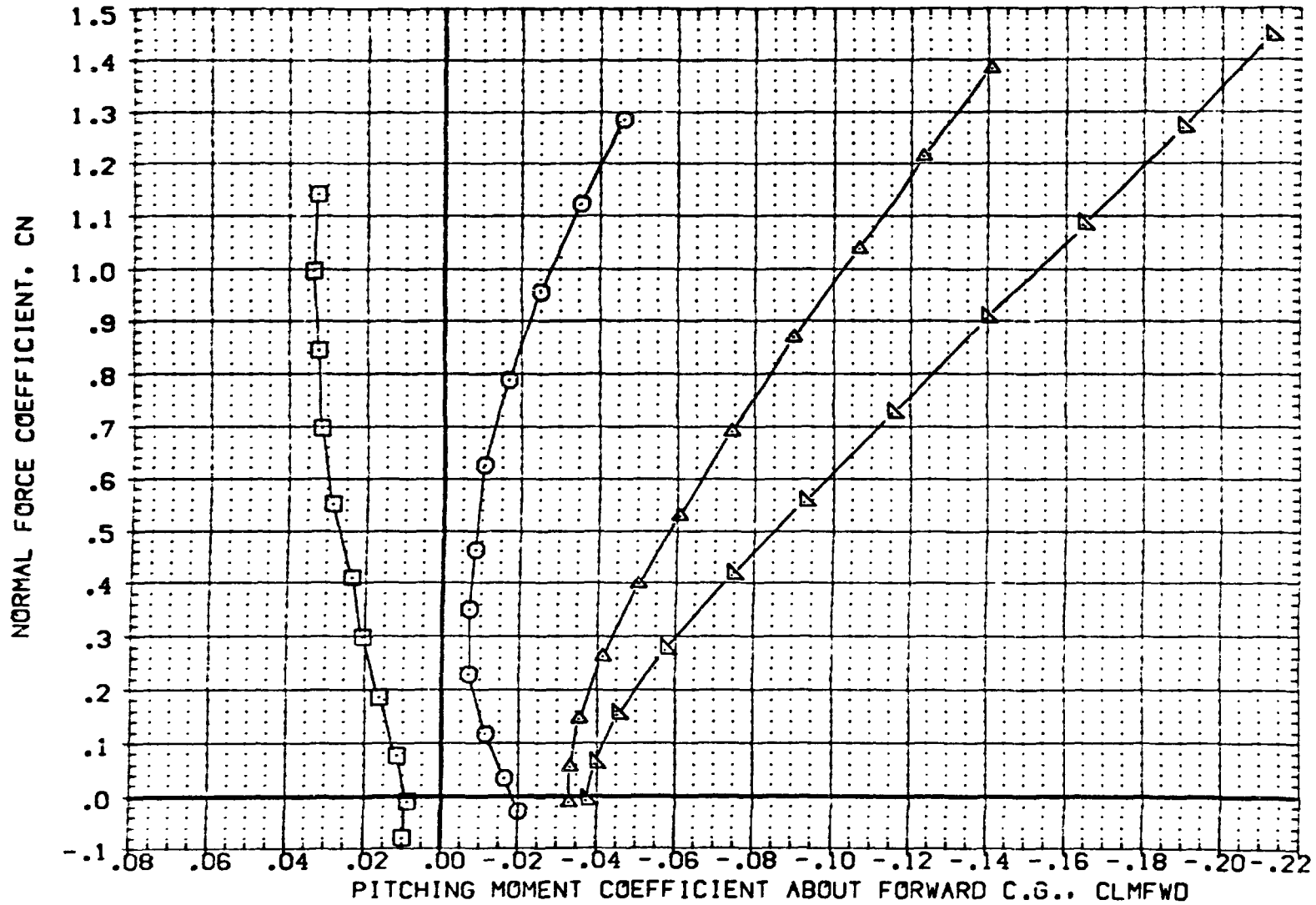


FIG. 4 ELEVON EFFECTS
 (A) MACH = 5.26
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

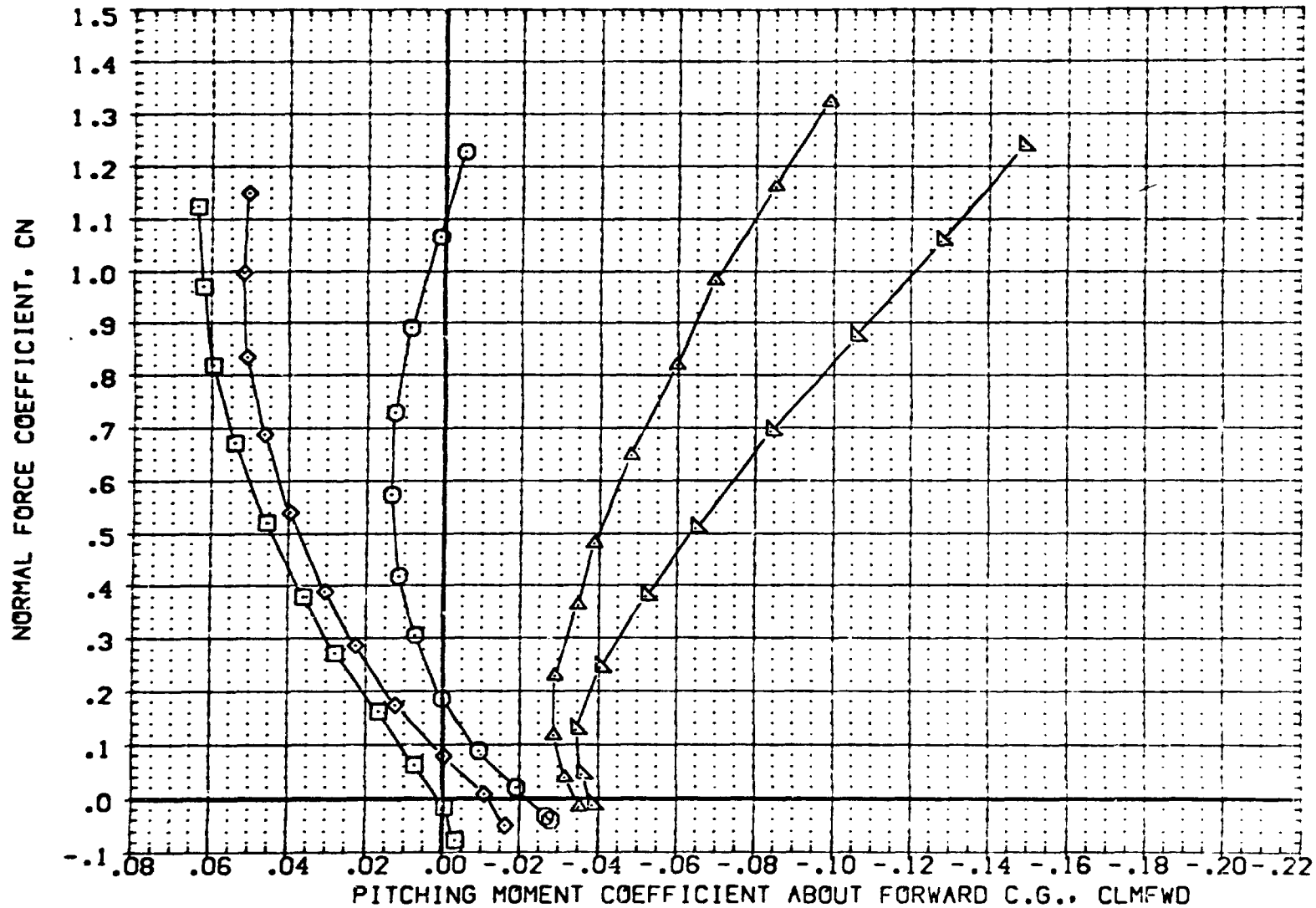


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).
(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R6 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R6 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R6 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6009A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R6 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

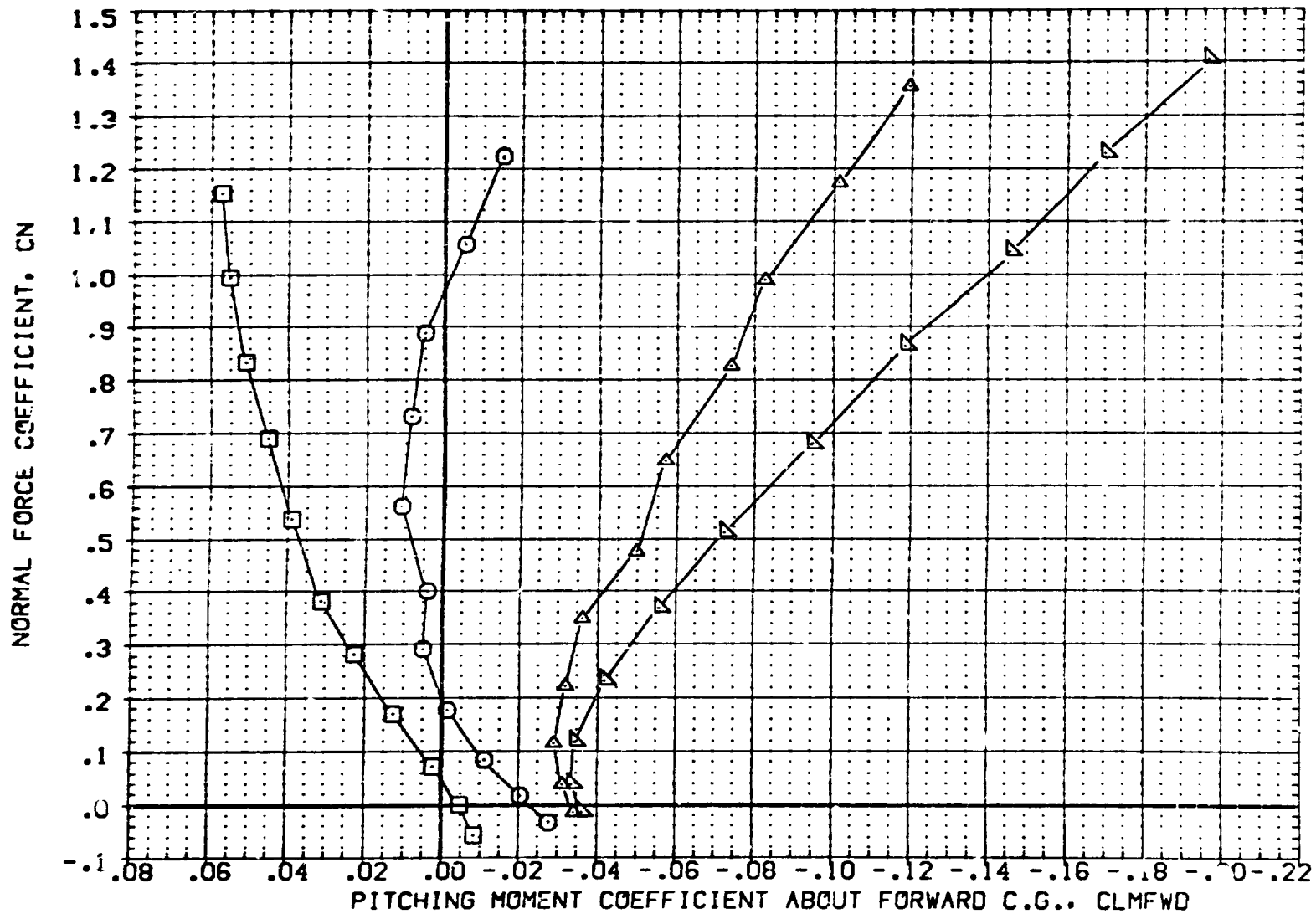


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE					BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XREF 1076.4800 IN.
(CB603A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YREF .0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150 SCALE

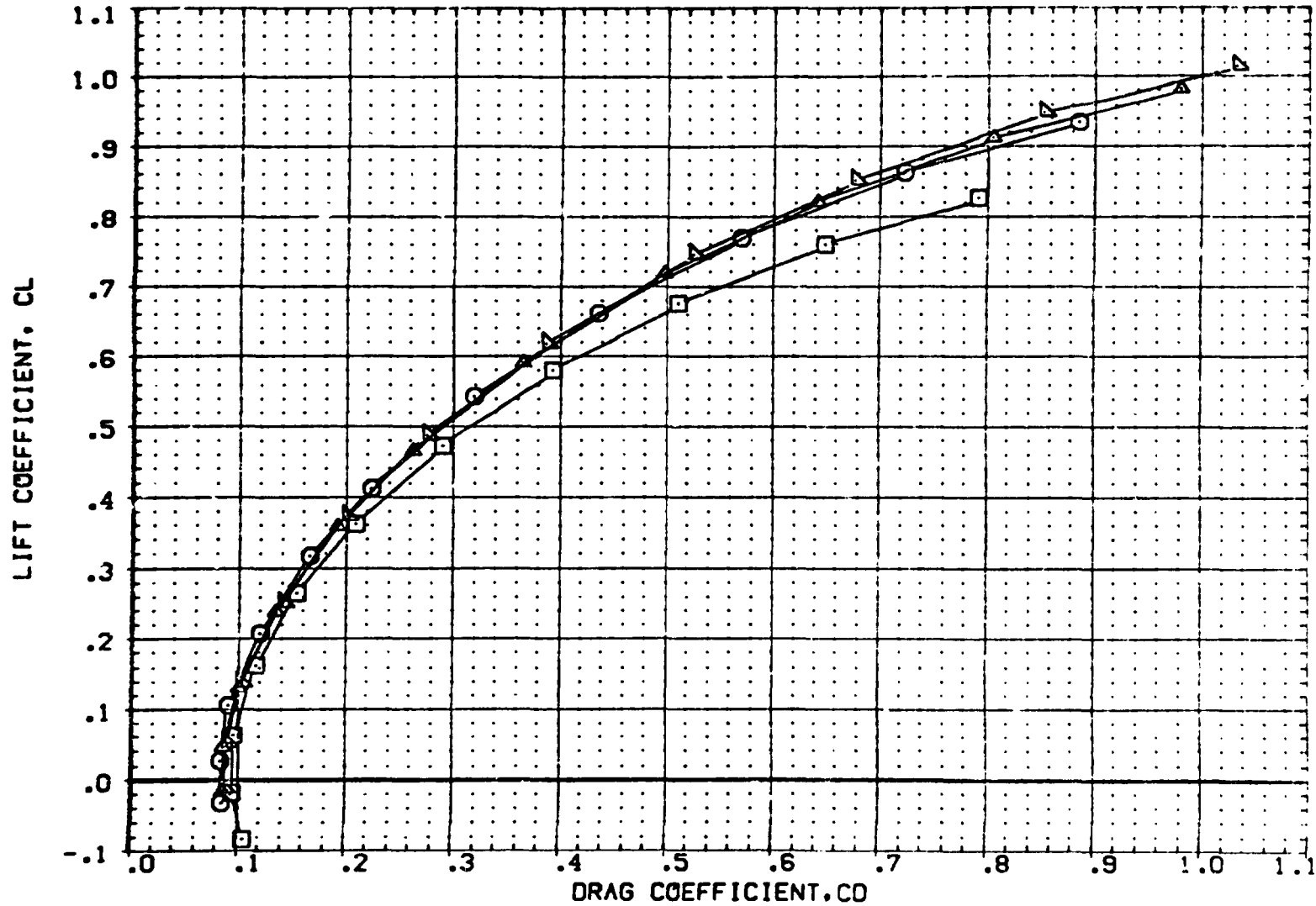


FIG. 4 ELEVON EFFECTS
(A) MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 S7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 S7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 S7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 S7 V107	15.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB609A)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 S7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

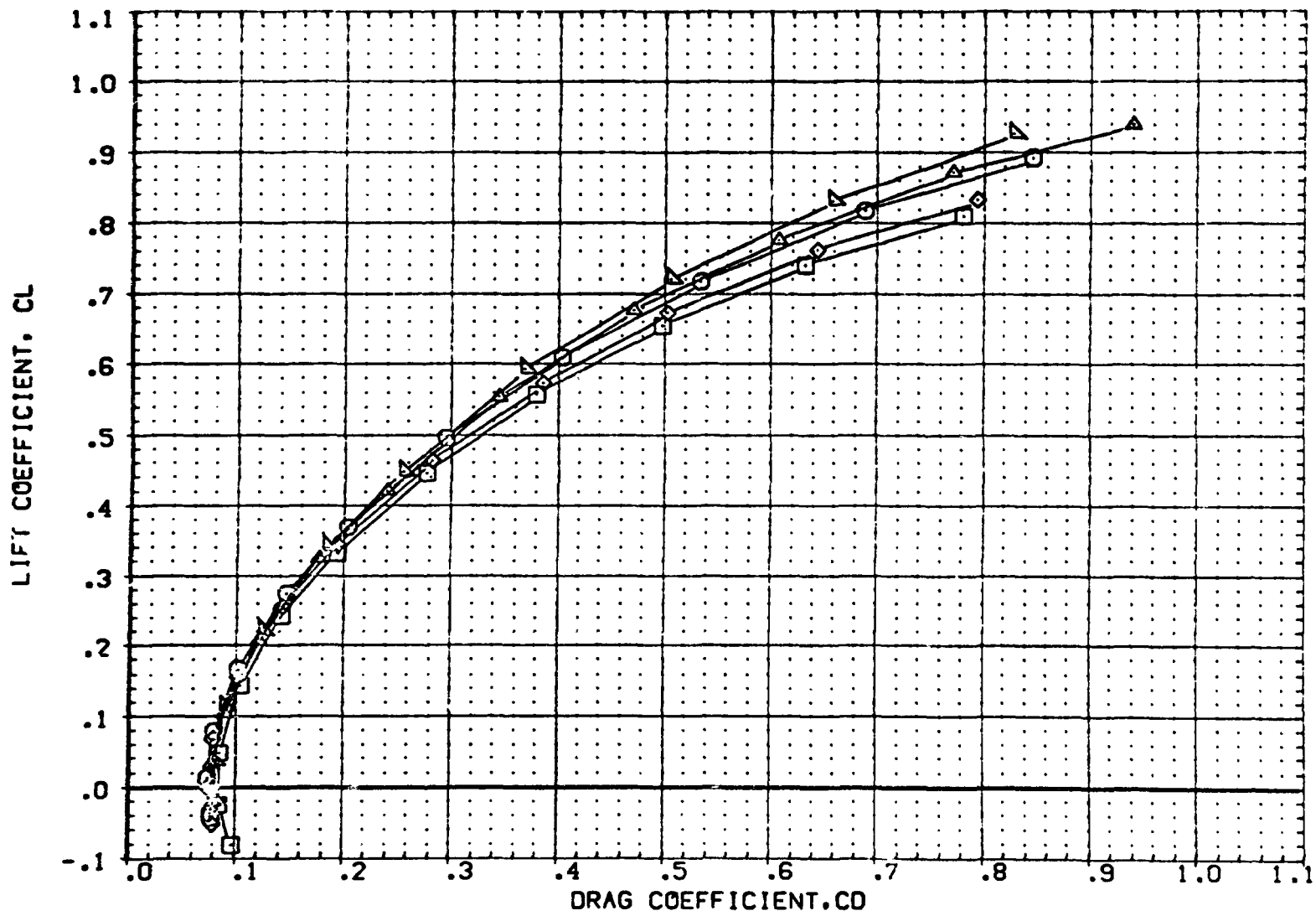


FIG. 4 ELEVON EFFECTS
 (B)MACH = 7.32
 147B CONFIGURATION (0.015-SCALE).
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.0000 IN.
(CB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	XMRP 1076.7000 IN.
(CB603A)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	13.750	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

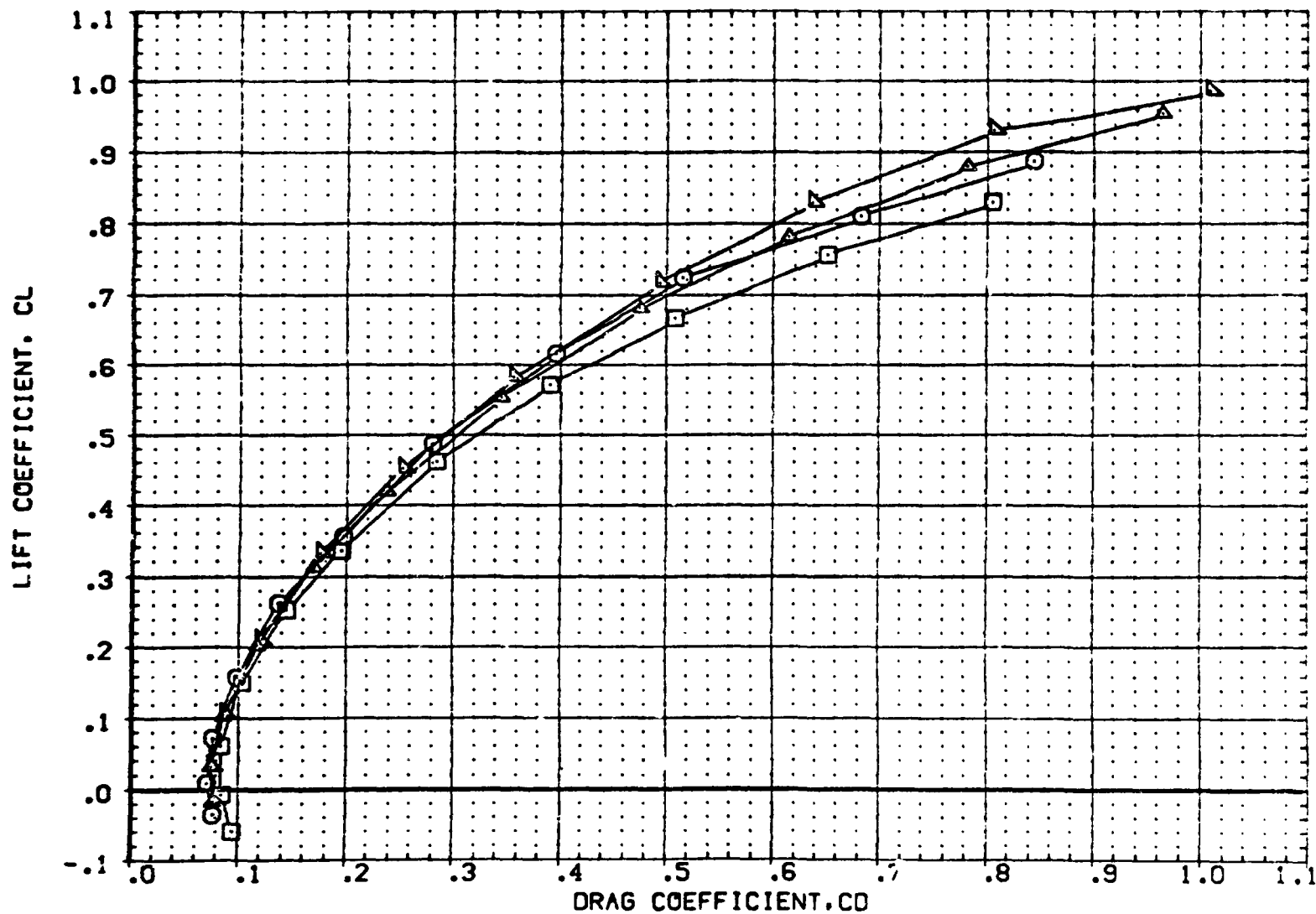


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	APES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86005)	APES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0050 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

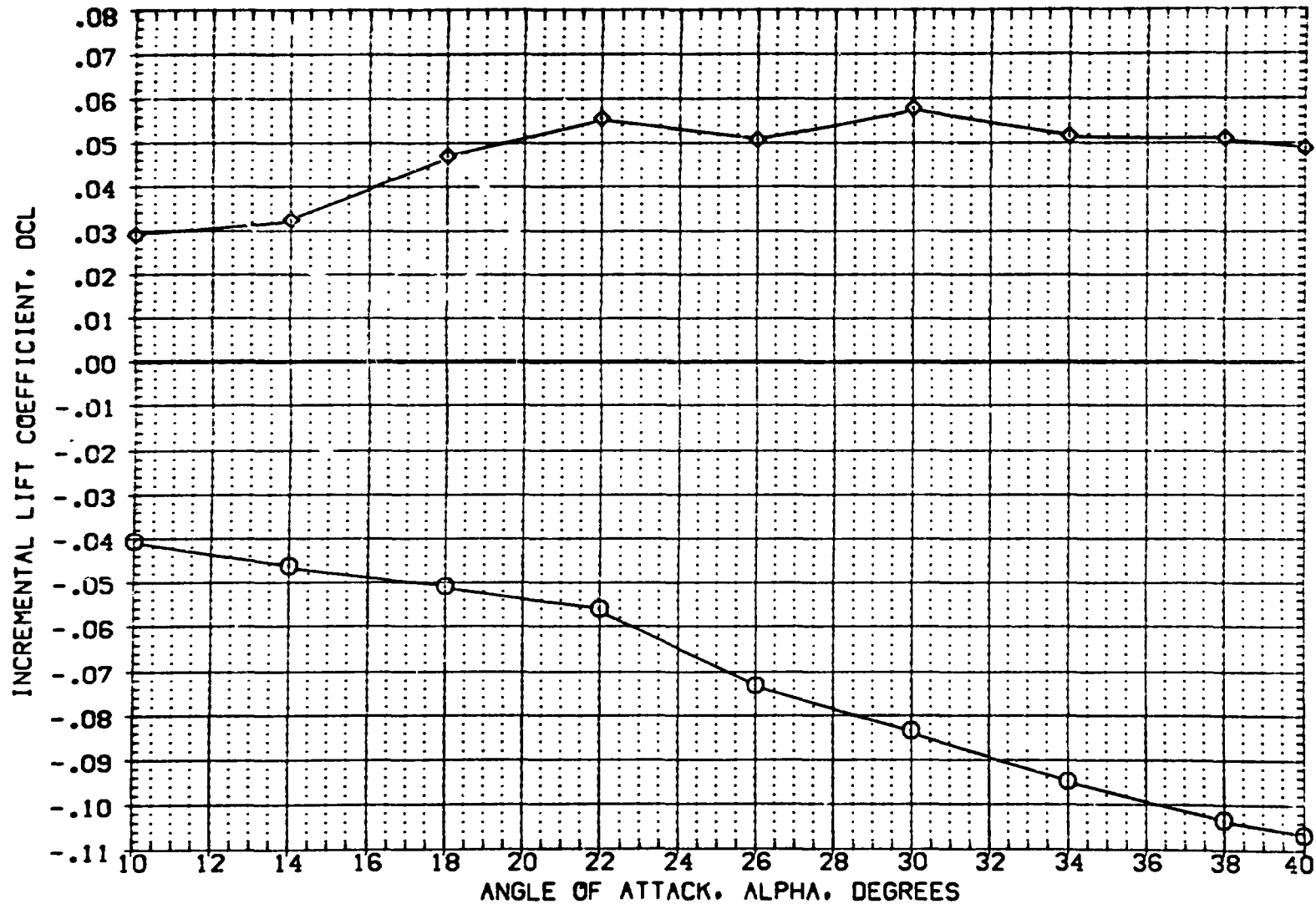


FIG. 4 ELEVON EFFECTS
(A)MACH = 5.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

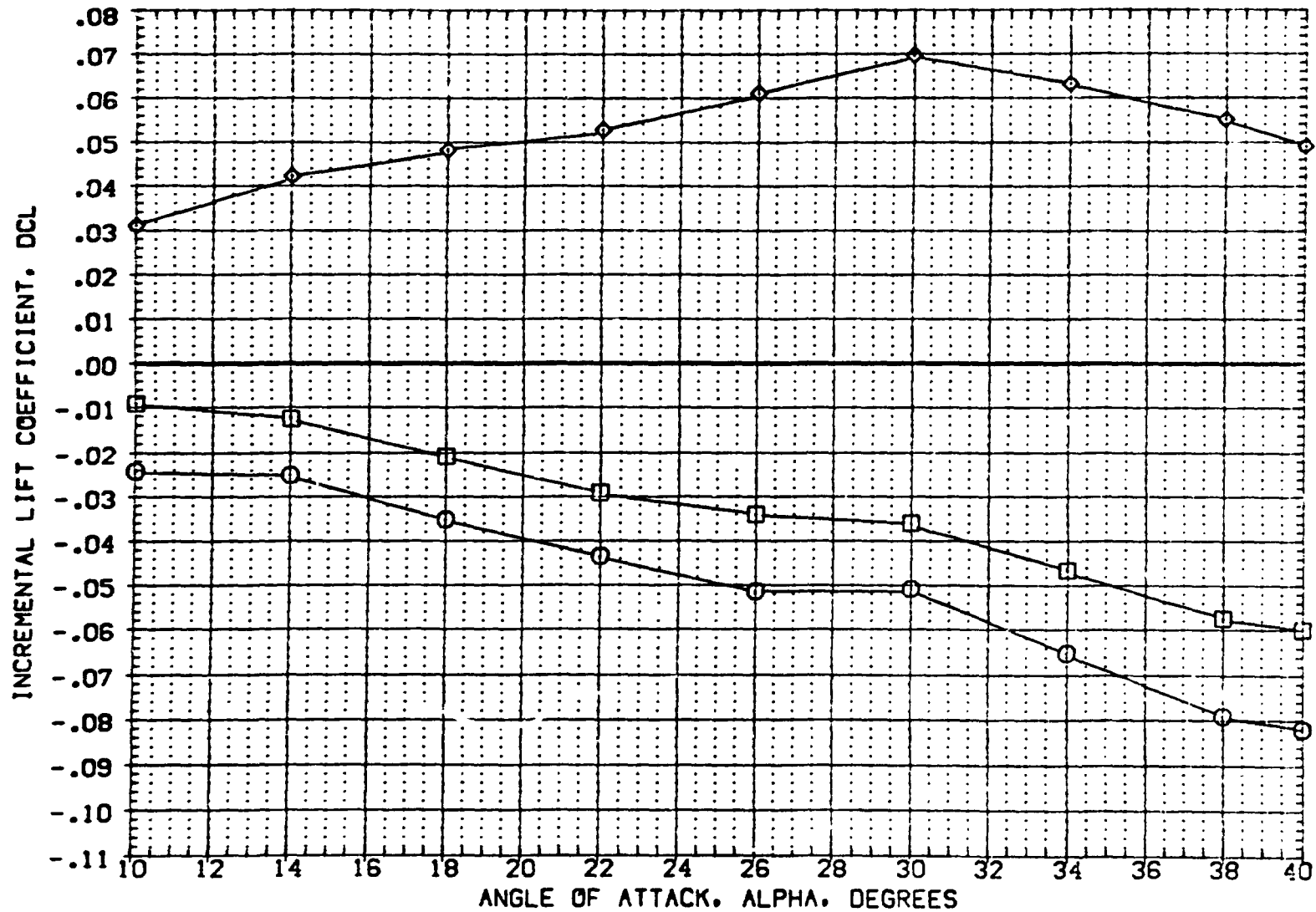


FIG. 4 ELEVON EFFECTS
 (B)MACH = 7.20
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	○ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	□ DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	◇ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	55.000	.000	BREF 936.6600 IN.	
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0:50 SCALE

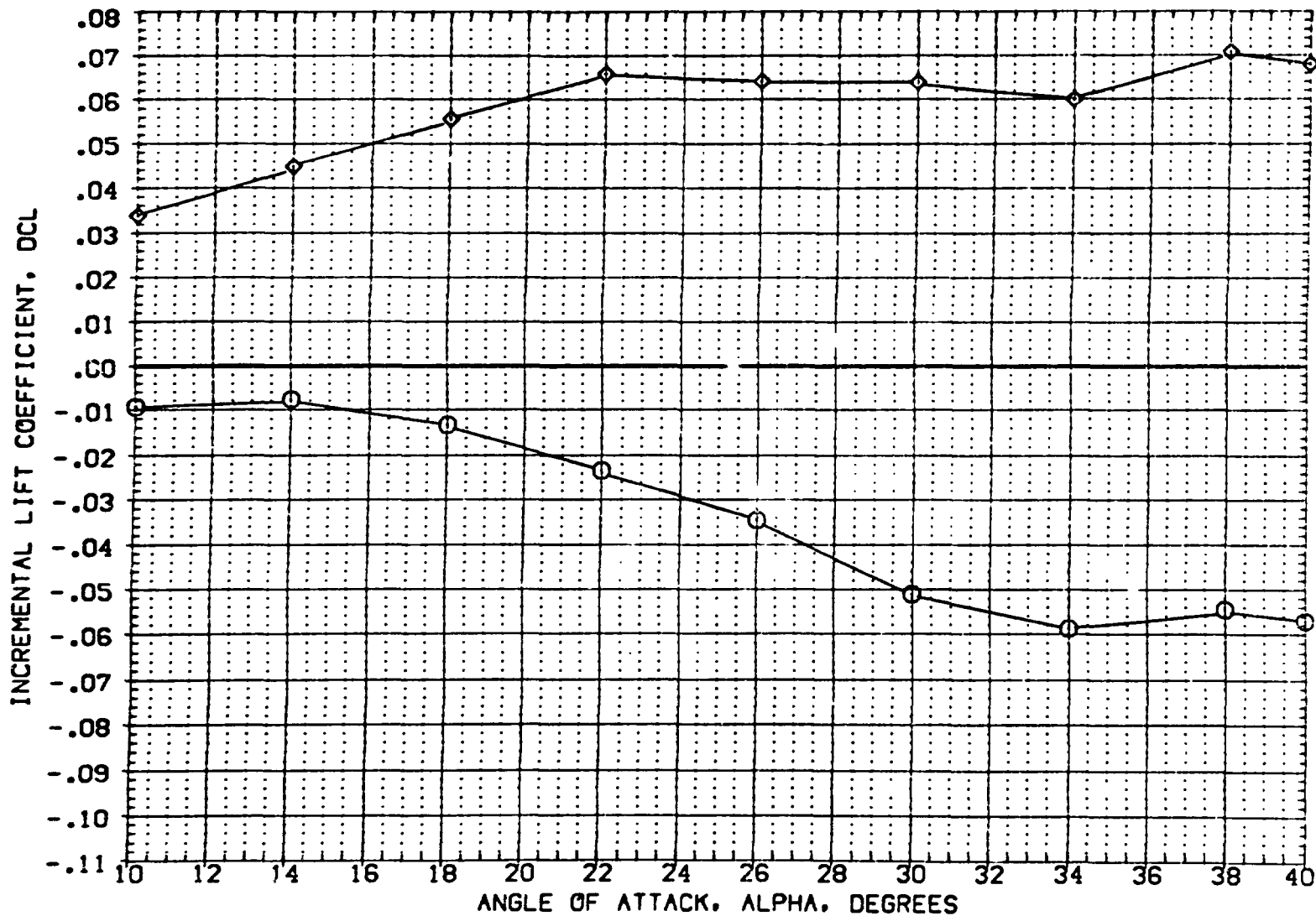


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDZER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6600 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

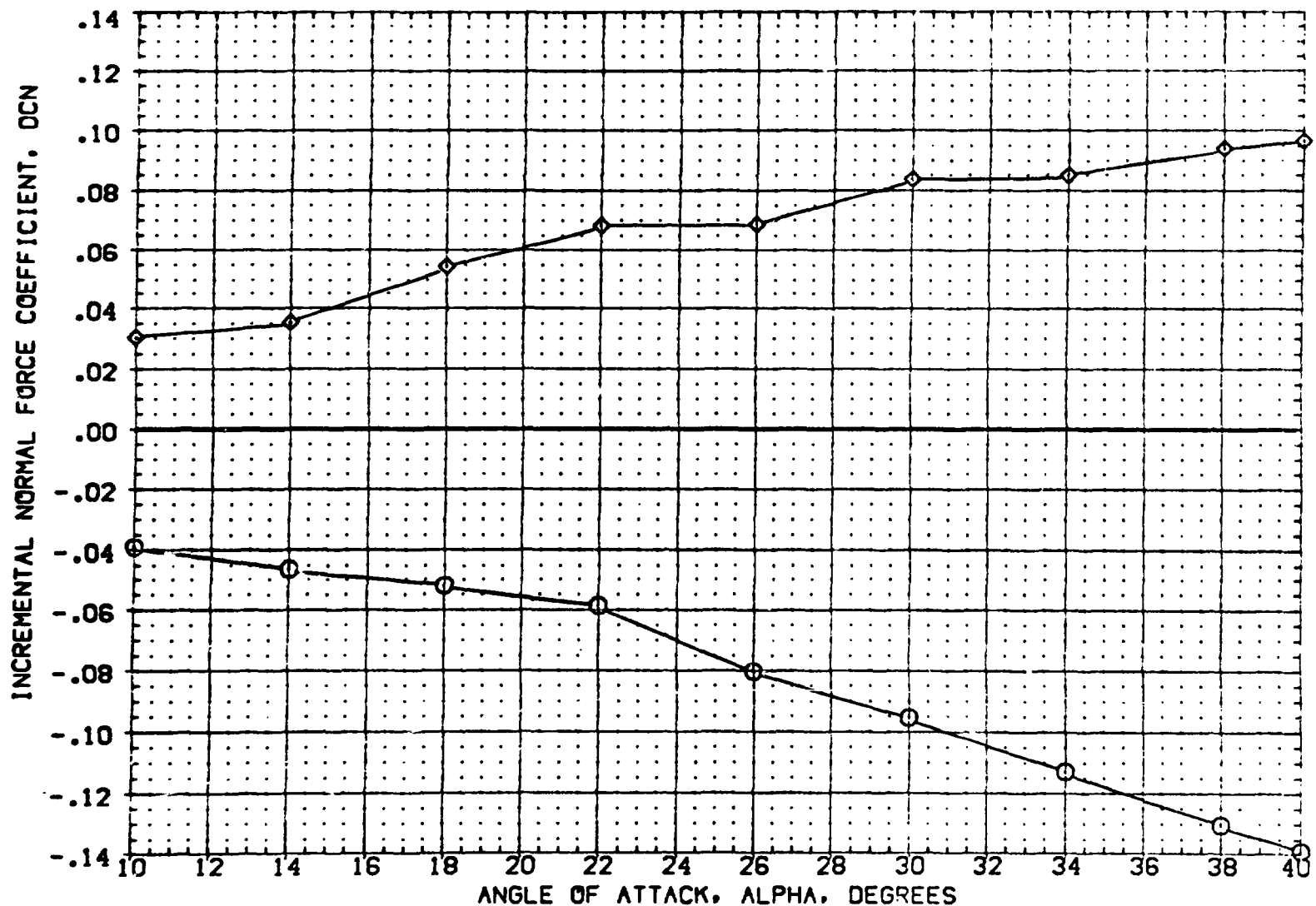


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRN	FLUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 GA23 922 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(TB6004)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

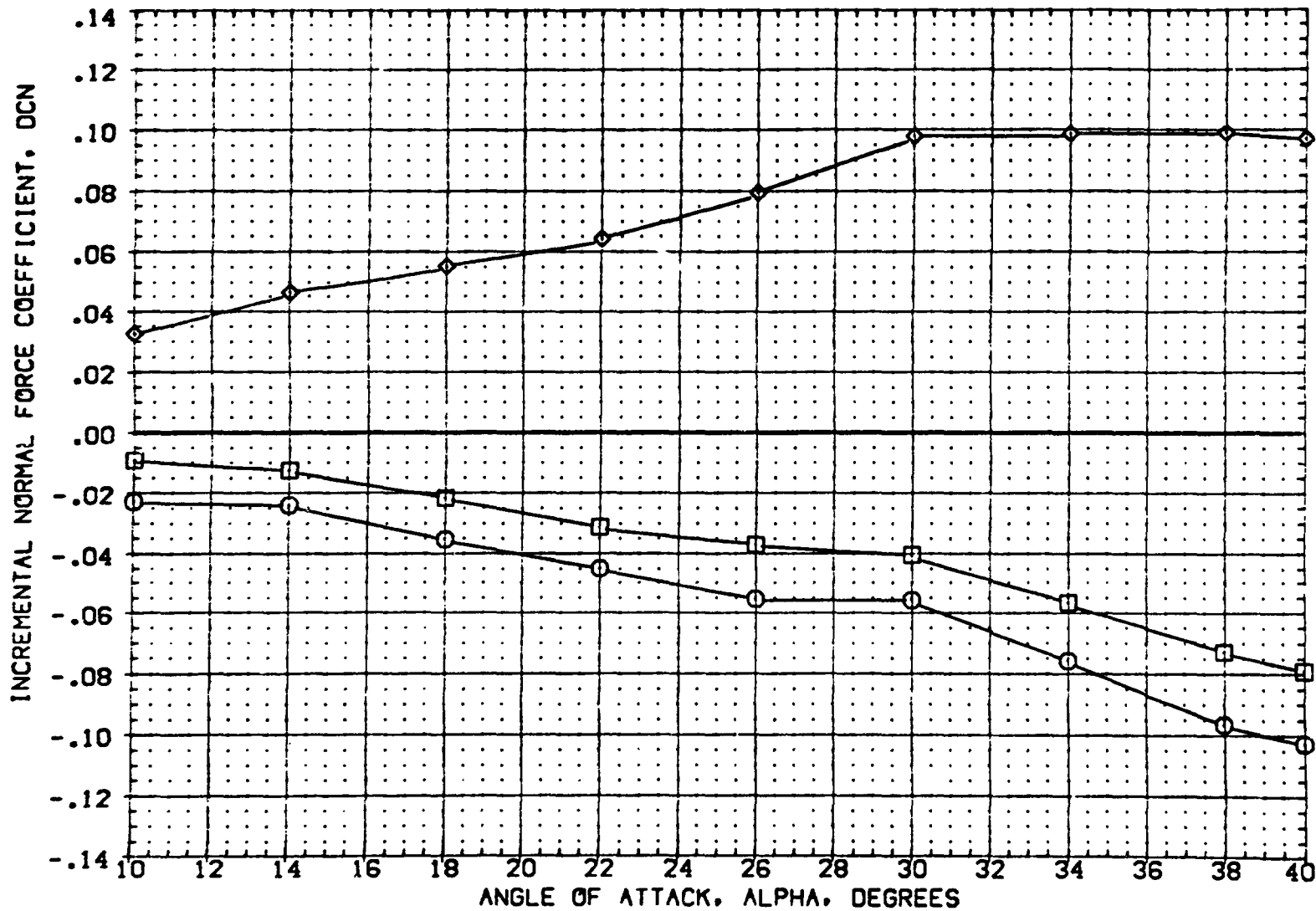


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(186003)	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000	50.FT.
(186004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000	IN.
(186005)	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	535.6000	IN.
						XMRP	1076.4000	IN.
						YMRP	.0000	IN.
						ZMRP	100.0000	IN.
						SCALE	.0150	SCALE

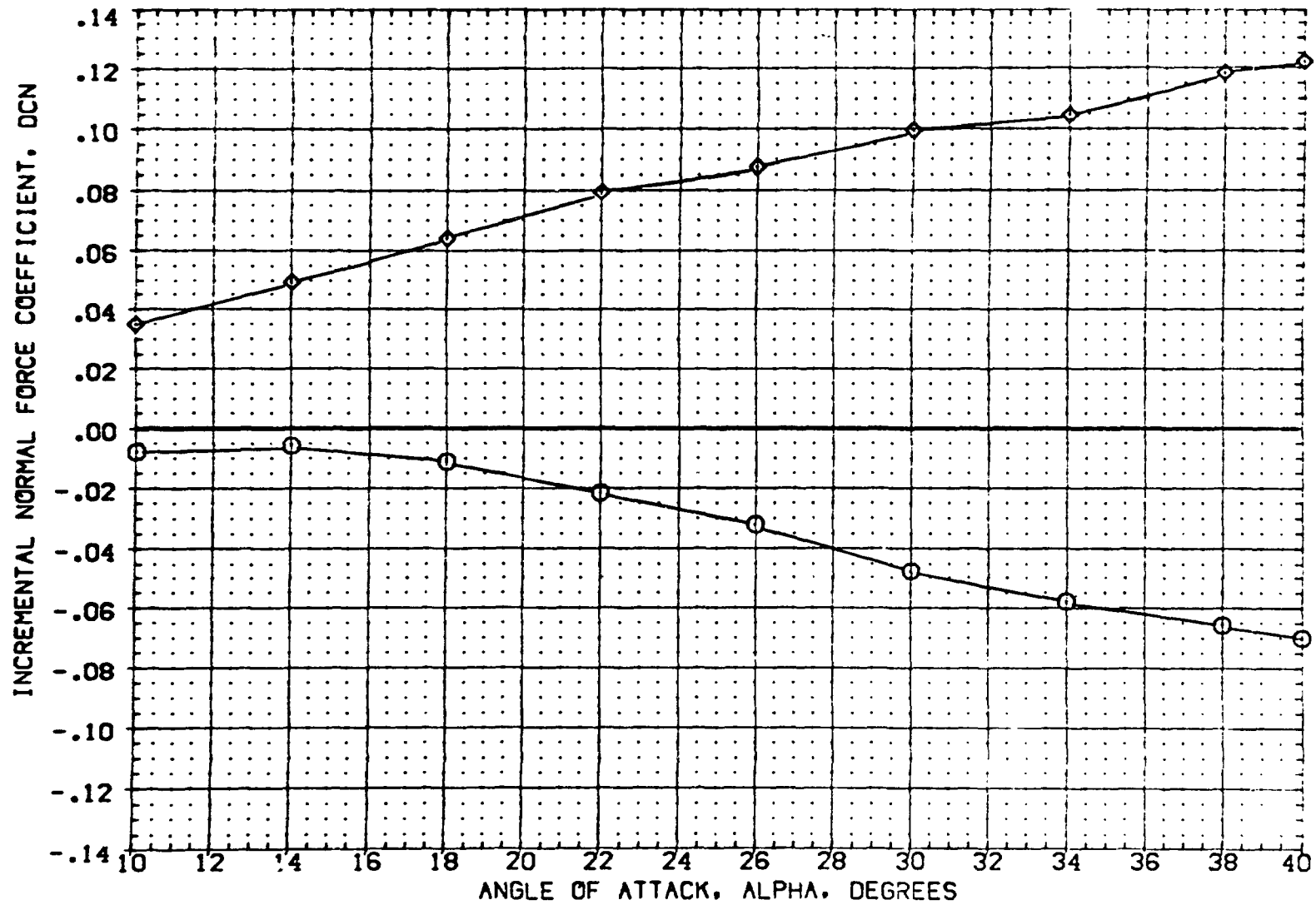
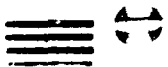


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

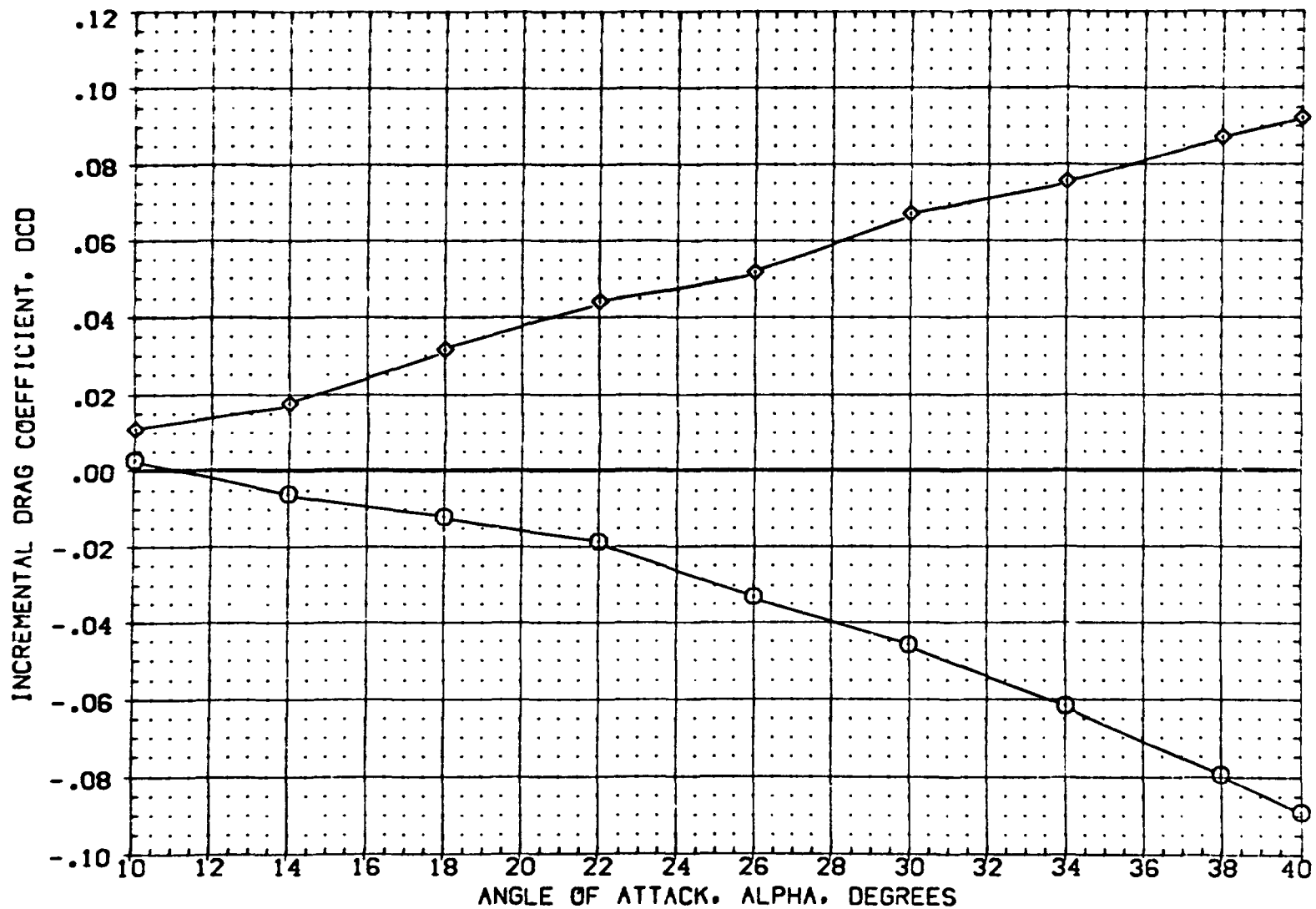


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

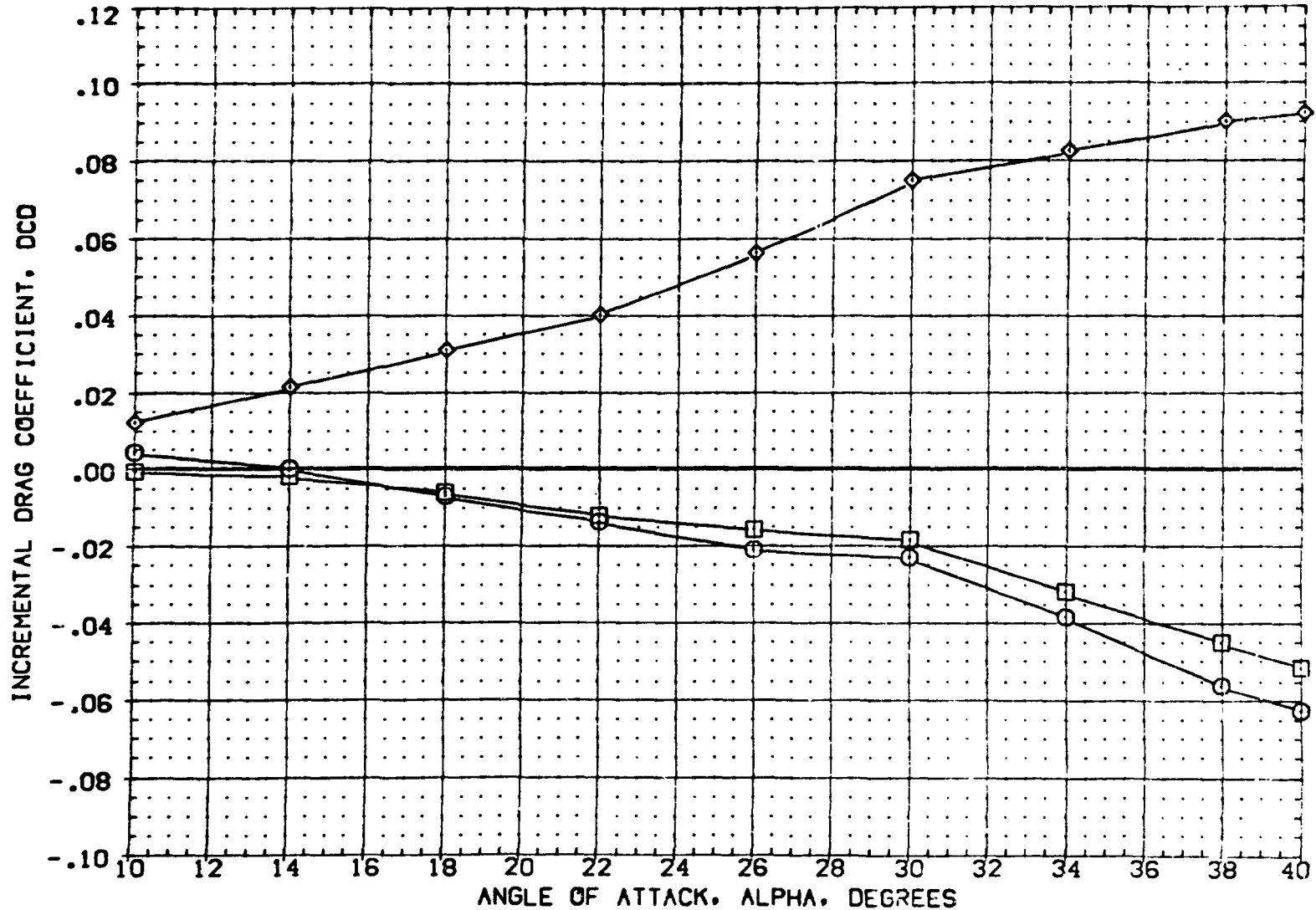


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	FLUDER	REFERENCE INFORMATION
(TB6003)	APES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.9000 IN.
(TB6005)	APES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1070.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

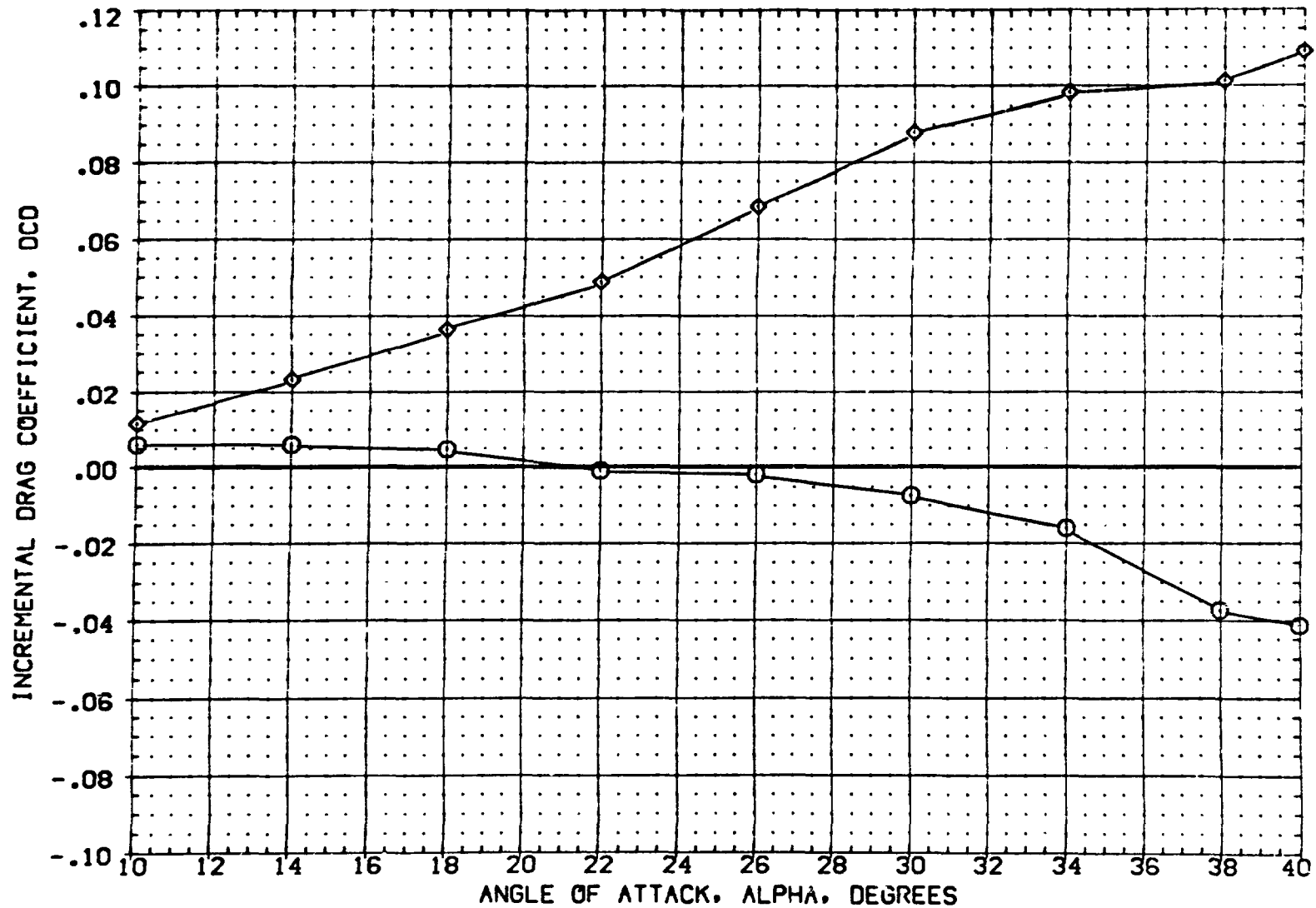


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(TB6003)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(TB6005)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

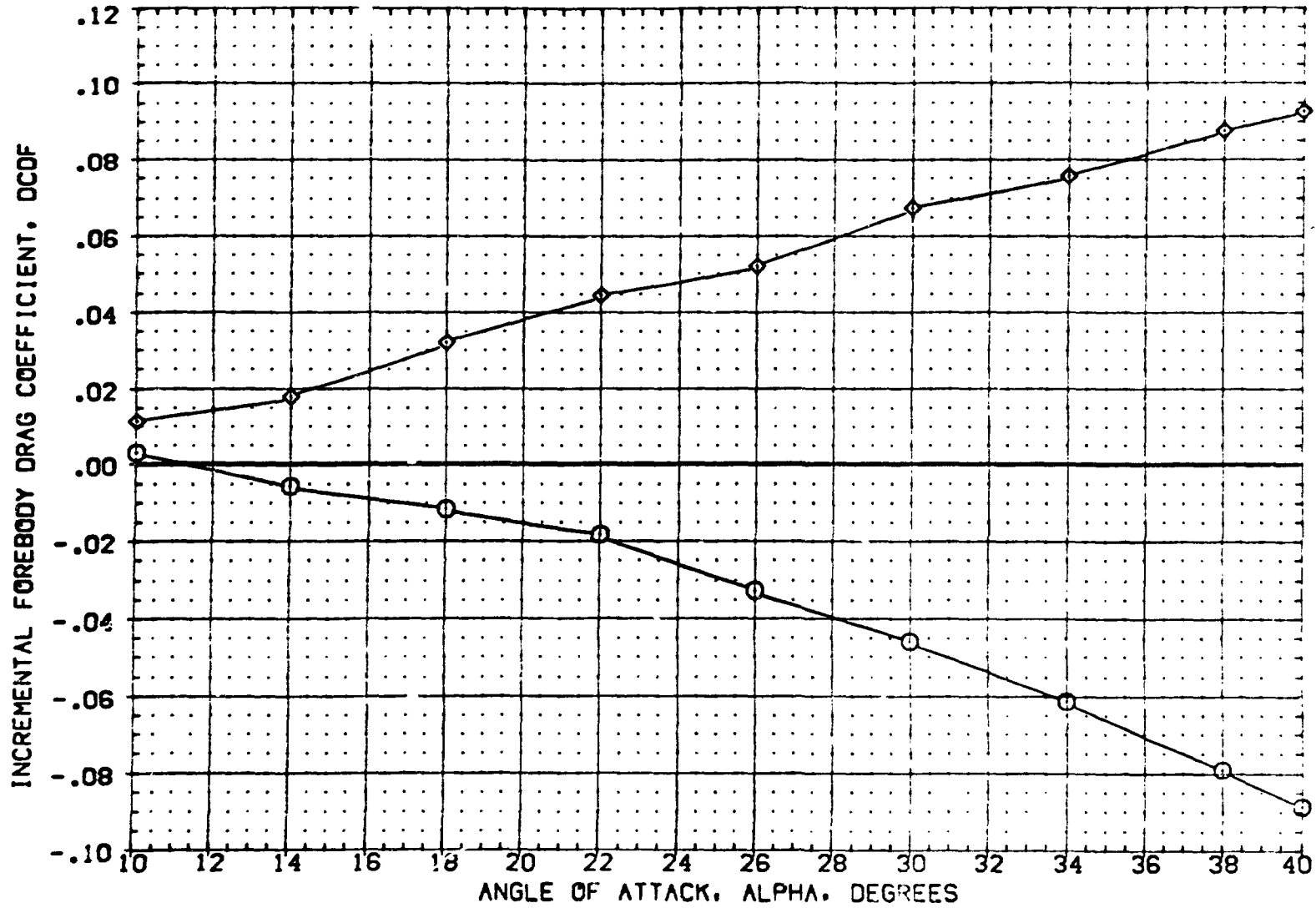


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

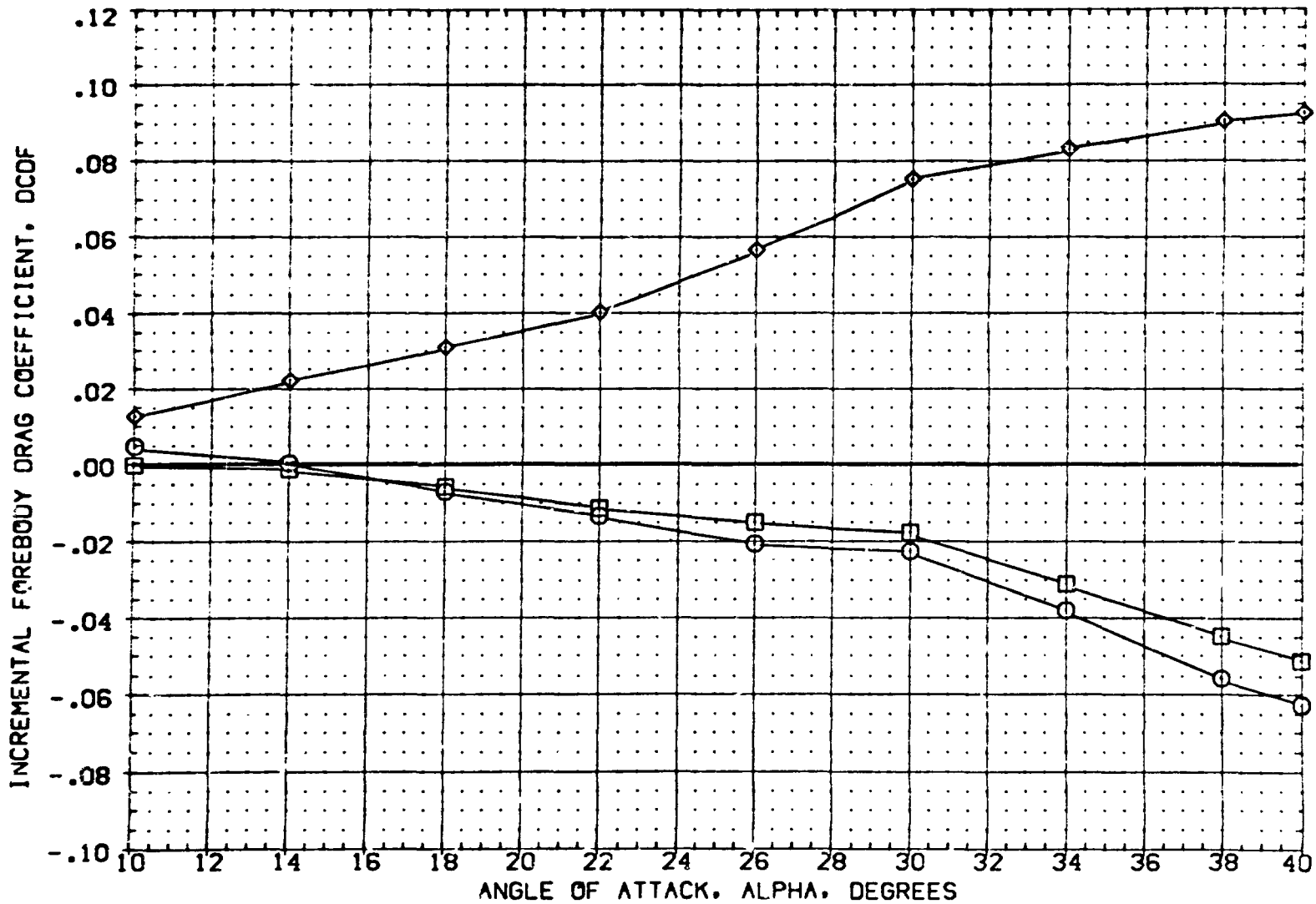


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.0000 IN.
(T86005)	APES3.5-168 OA23 R22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 10.0.4000 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

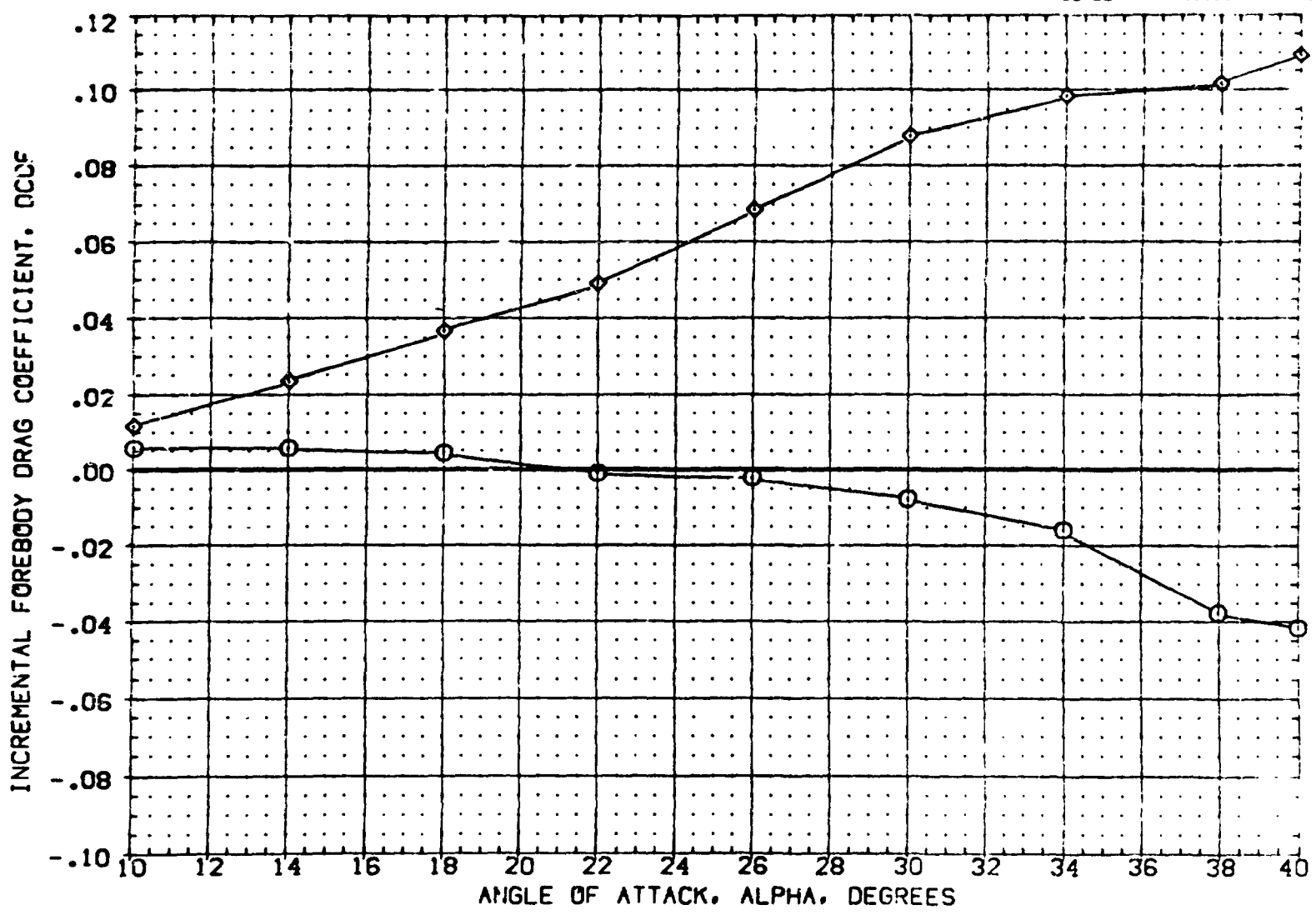
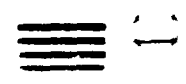


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.20 PAGE 54



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	.0.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

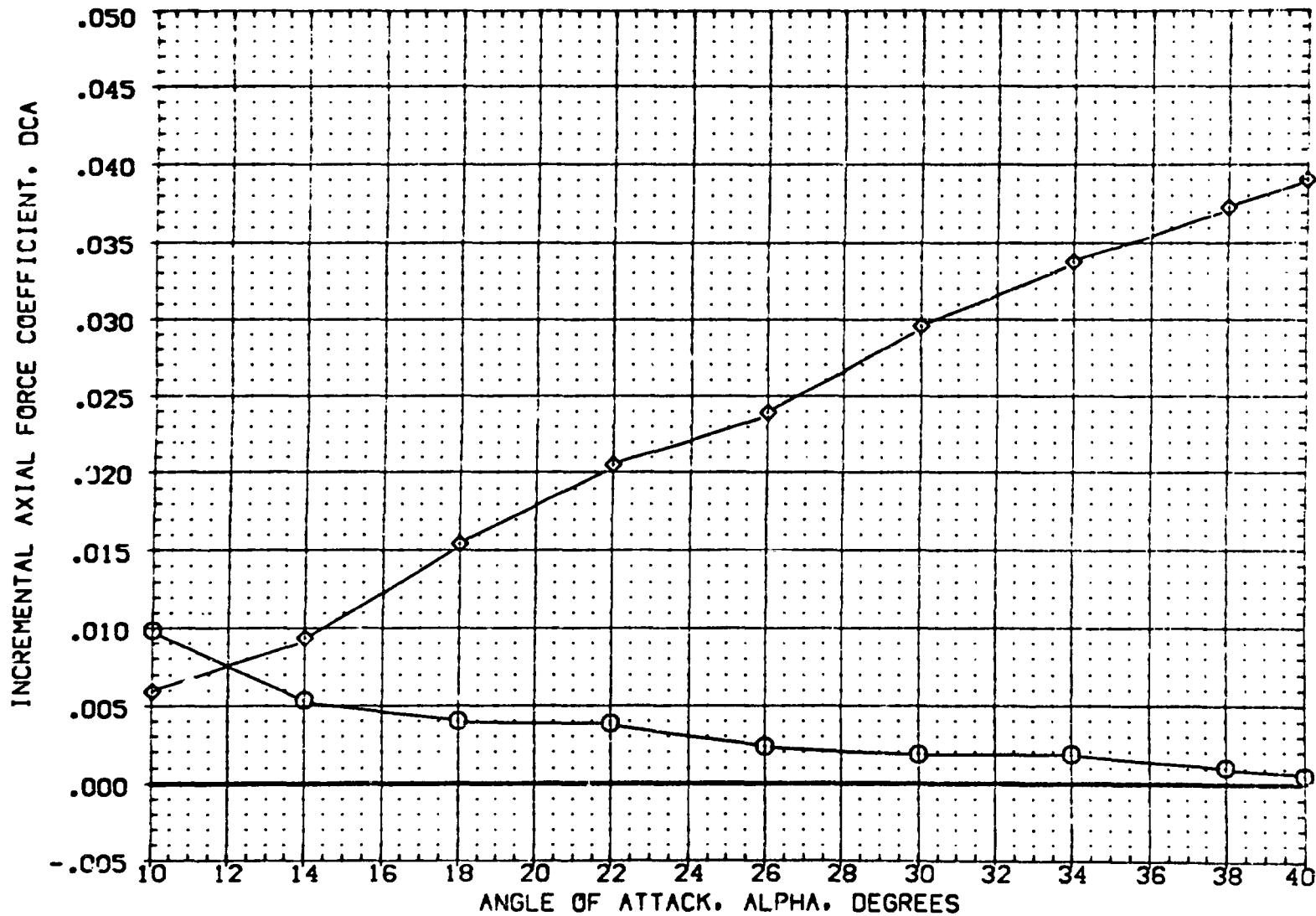


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R35 V7 V107	-40.000	-14.250	55.000	.000	SREF 2590.0000 SQ.FT.
(TB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R35 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R35 V7 V107	15.000	-14.250	55.000	.000	BREF 935.8000 IN.
						XMRP 1075.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

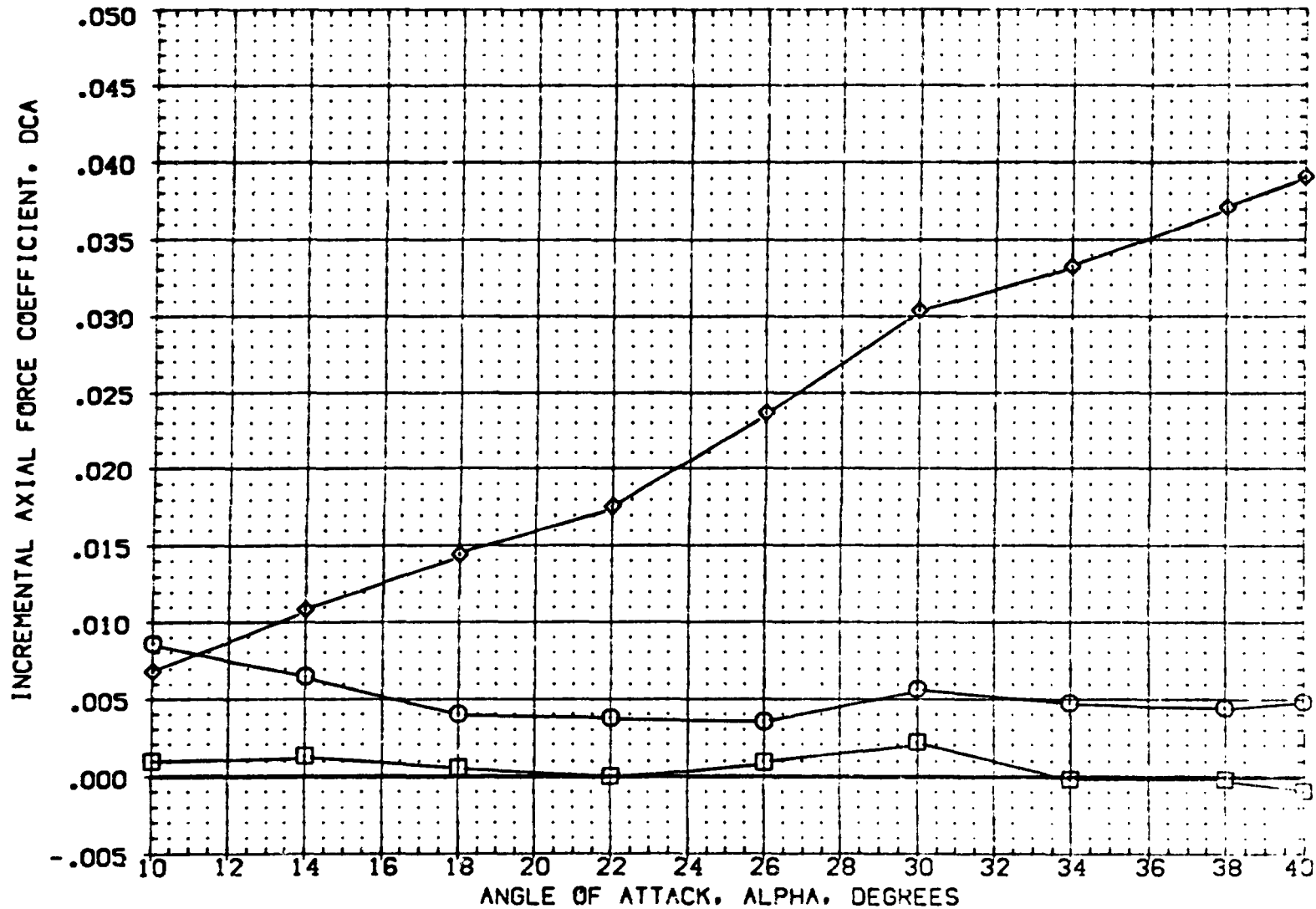


FIG. 4 ELEVON EFFECTS
 (B)MACH = 7.20
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	APES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86005)	APES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.0000 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

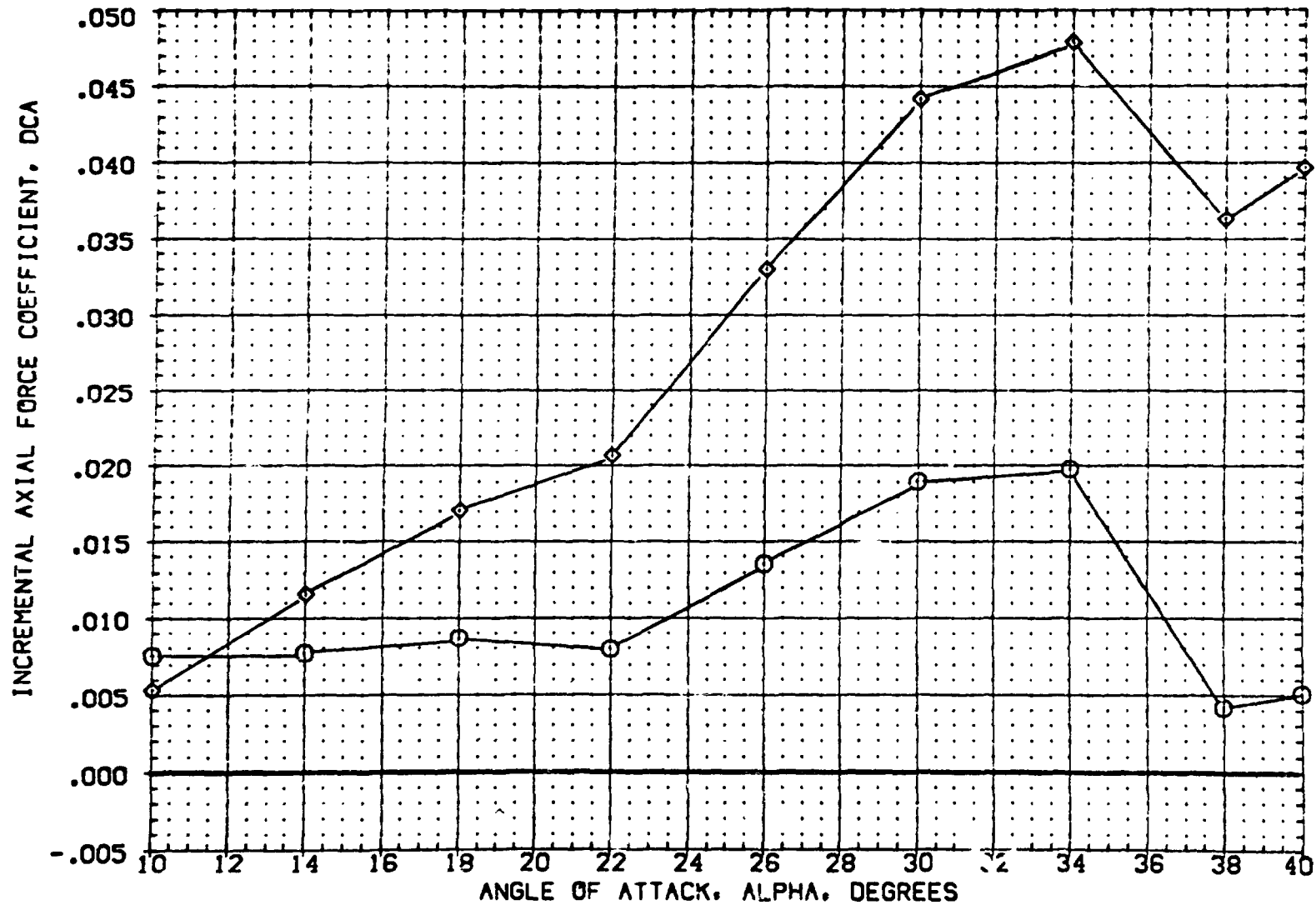


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(186003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000	50. FT.
(186004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000	IN.
(186005)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	0.0	OREF	935.6000	IN.
						XMRP	1070.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0150	SCALE

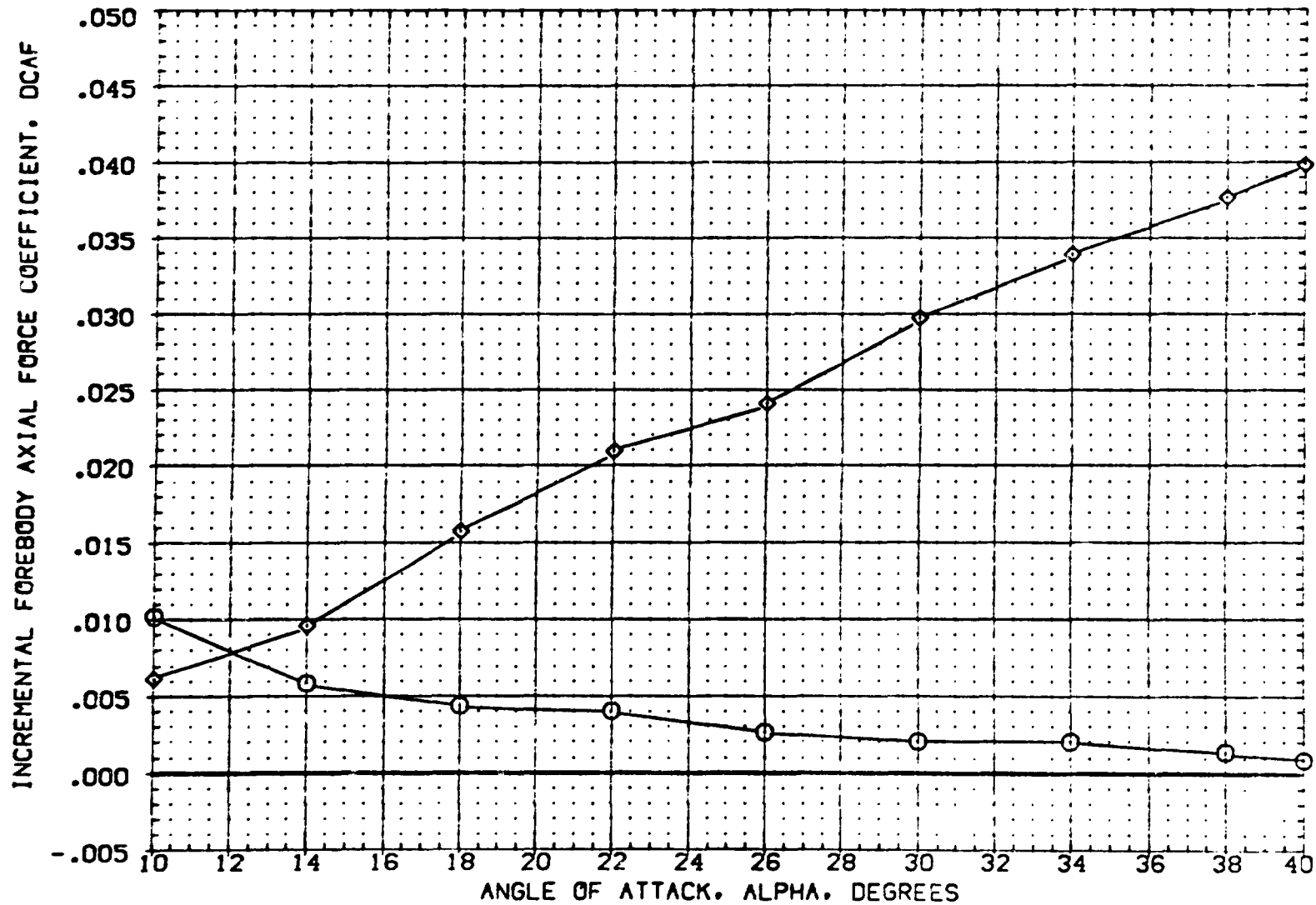
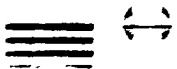


FIG. 4 ELEVON EFFECTS
(A) MACH = 5.20

147B CONFIGURATION (0.015-SCALE).



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 90.FT.
(TB6004)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

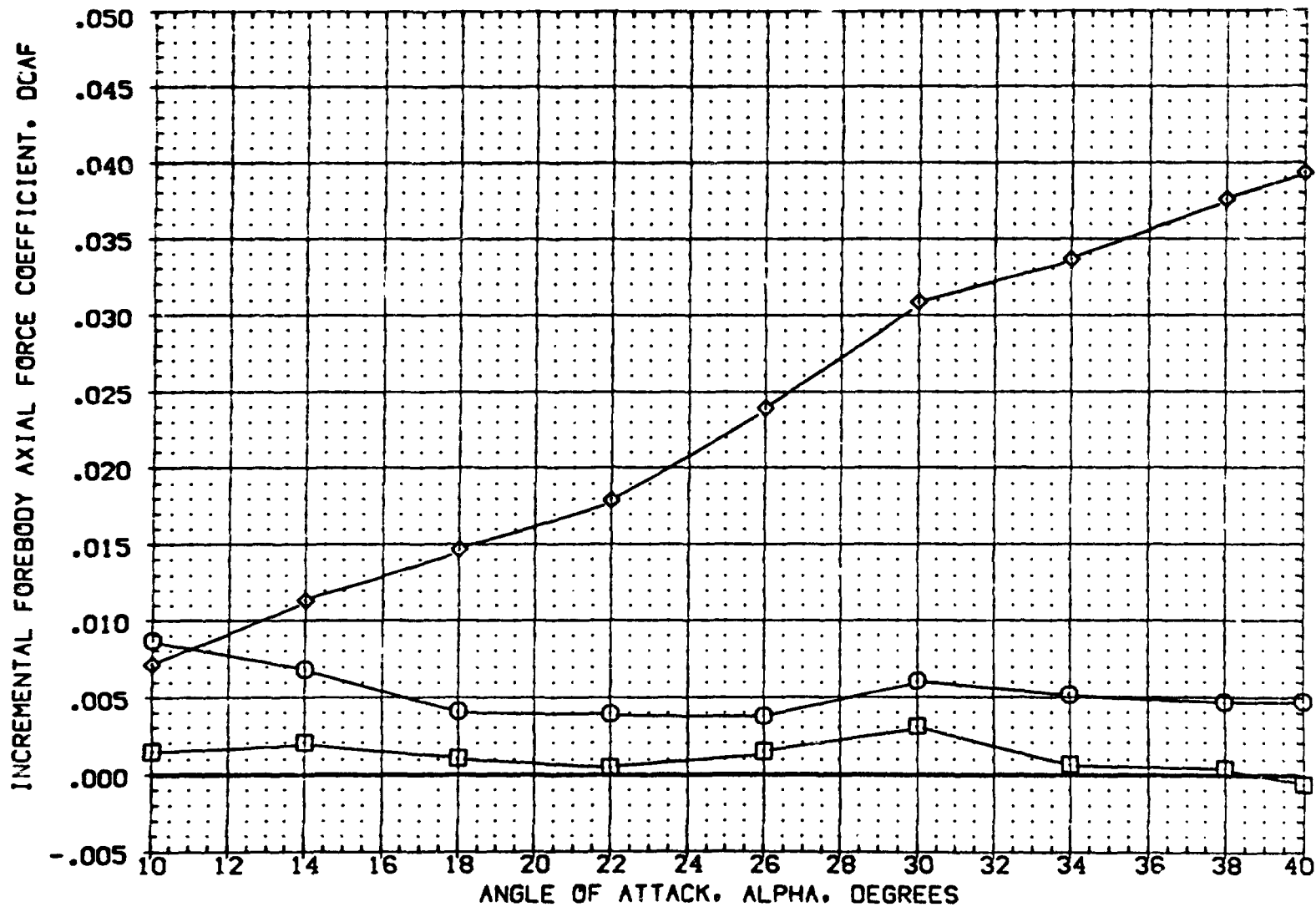


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
{T86003}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2630.0000 SQ.FT.
{T86004}	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
{T86005}	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

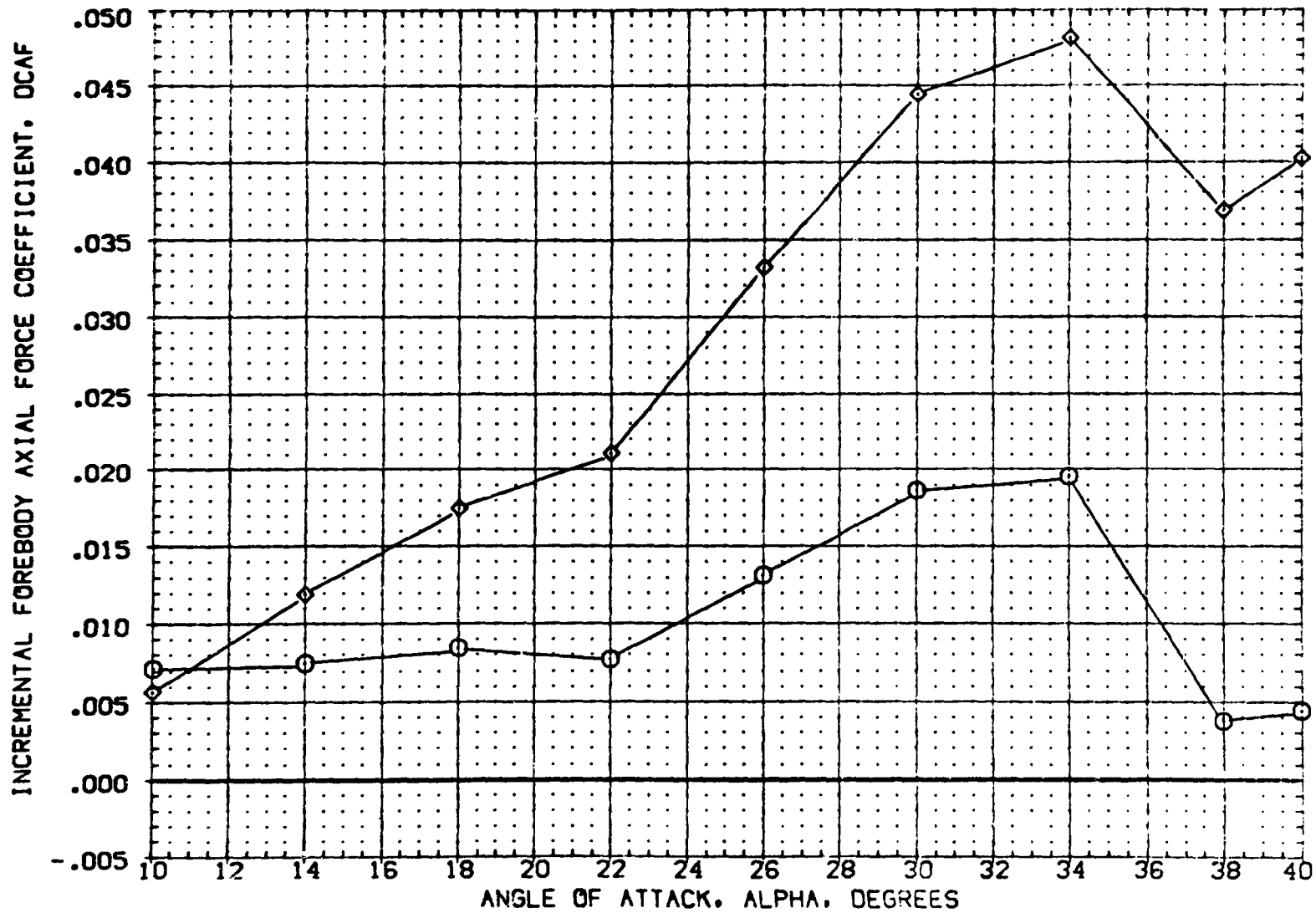


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(T86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SO.FT.
(T86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(T86005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

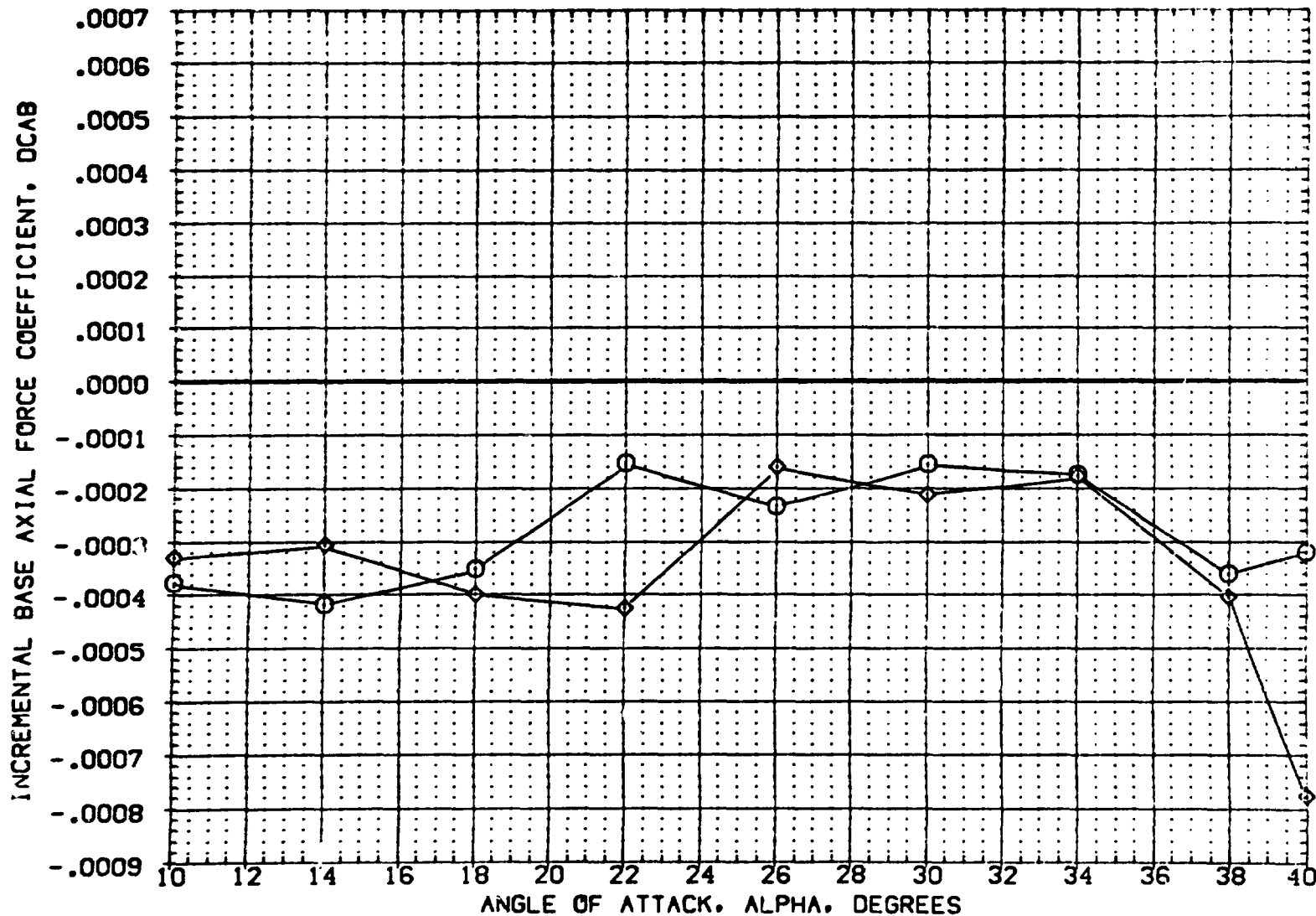


FIG. 4 ELEVON EFFECTS
(A)MACH = 5.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(TB6003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(TB6004)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(TB6005)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6000 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

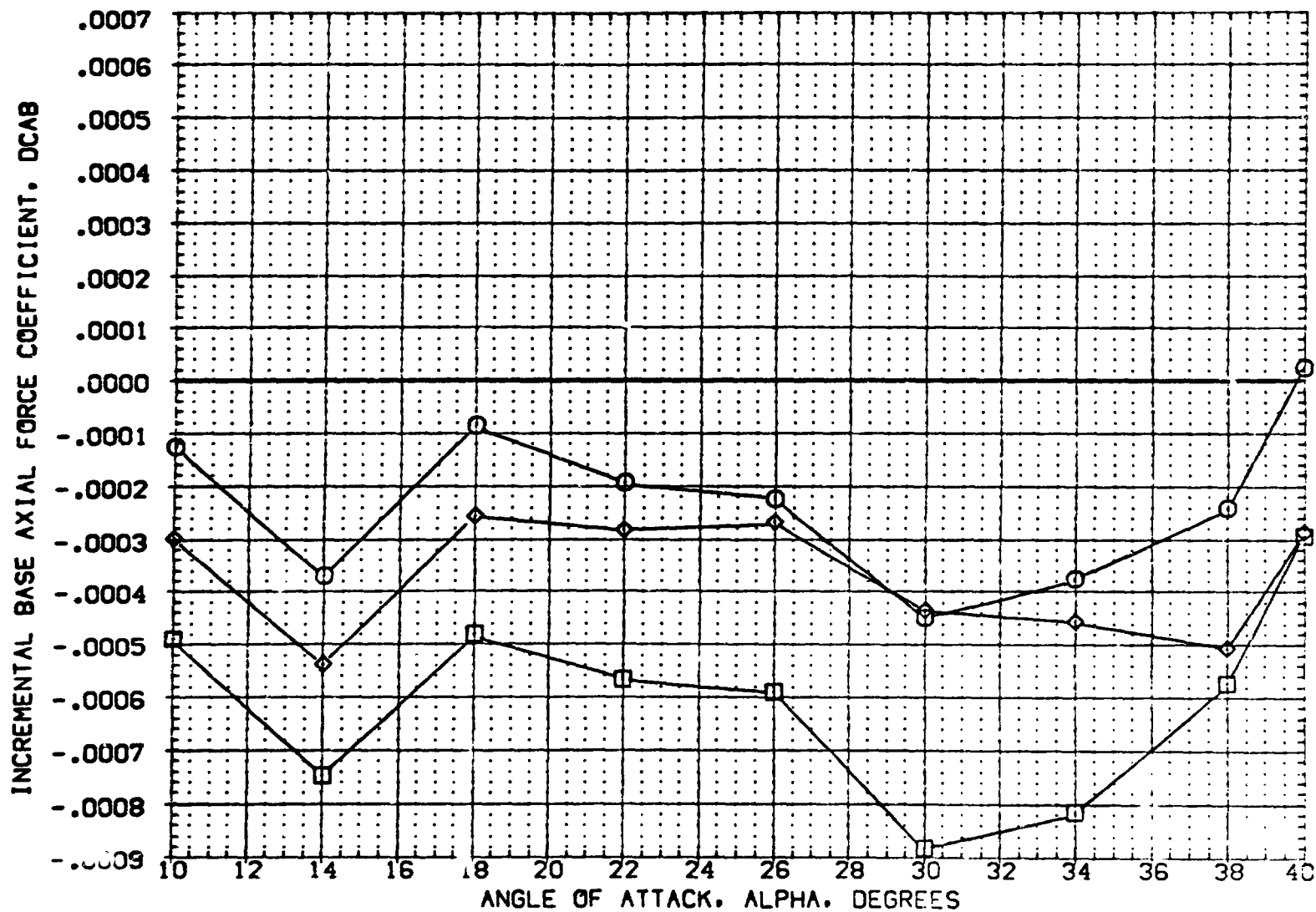


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .015" SCALE

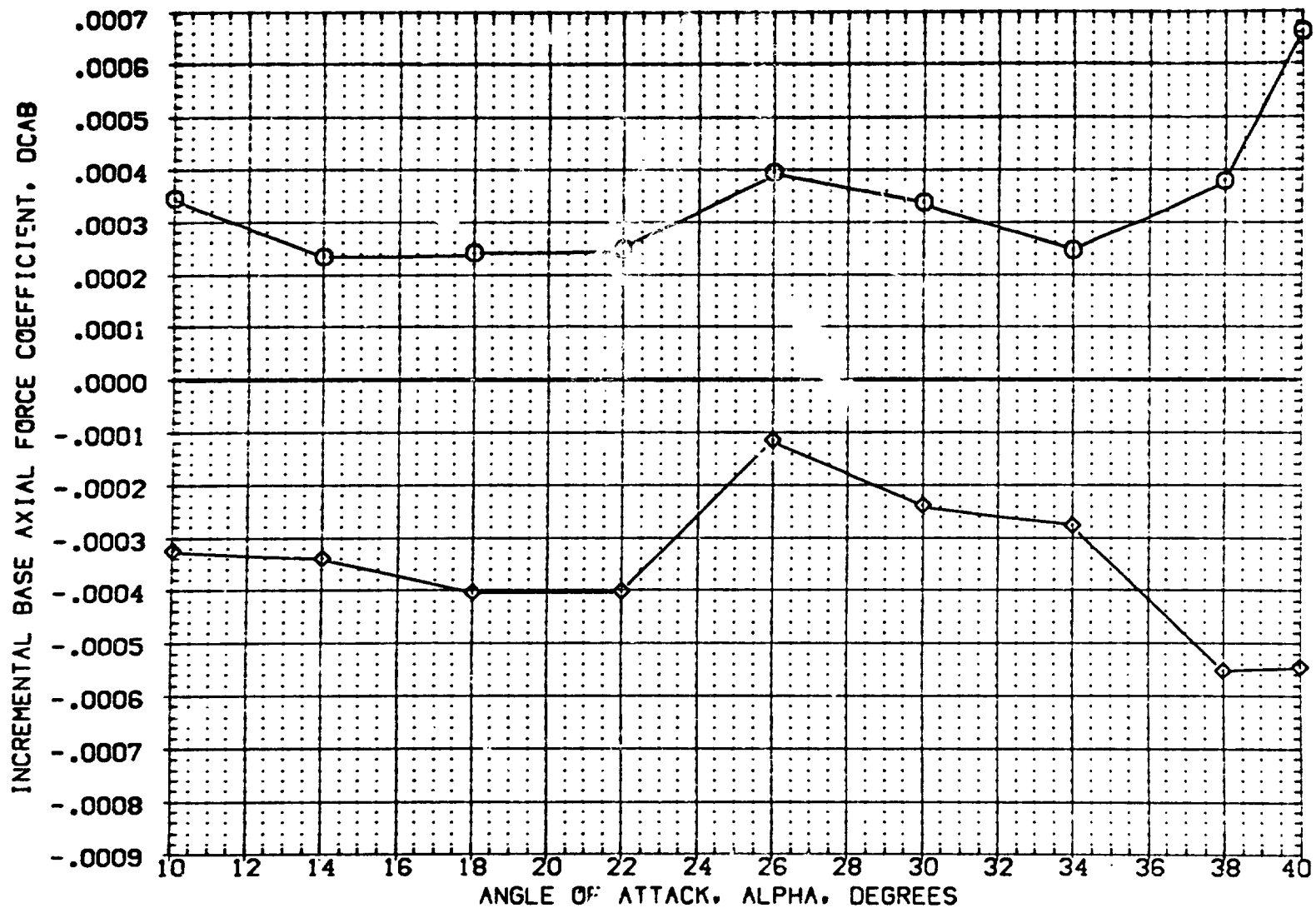


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(T86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107
(T86004)	DATA NOT AVAILABLE
(T86005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107

DE	BDFLAP	SPDBRK	RUDDER
-40.000	-14.250	55.000	.000
-20.000	-14.250	55.000	.000
15.000	-14.250	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	225.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

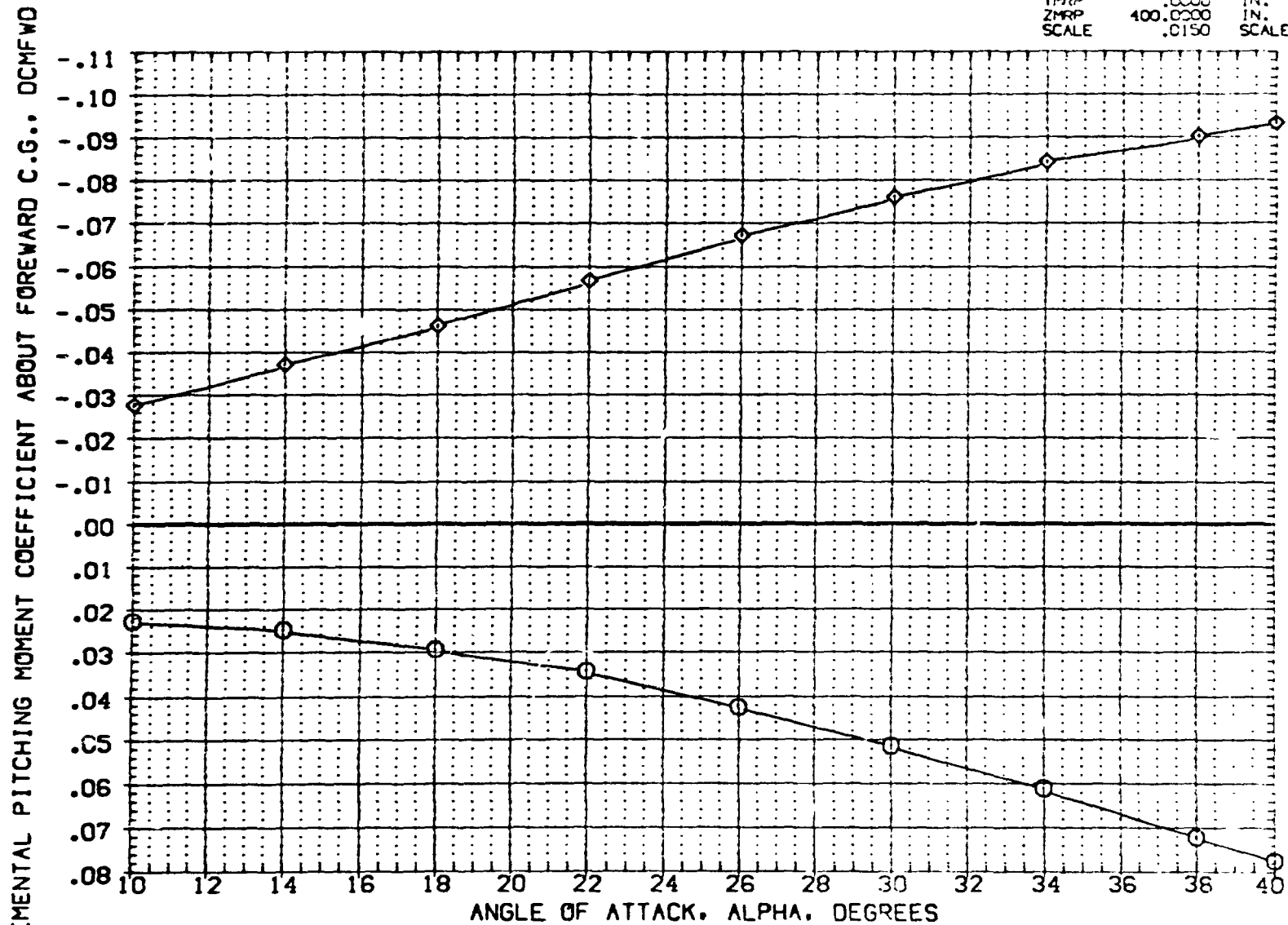


FIG. 4 ELEVON EFFECTS
 (A)MACH = 5.20
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6004)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

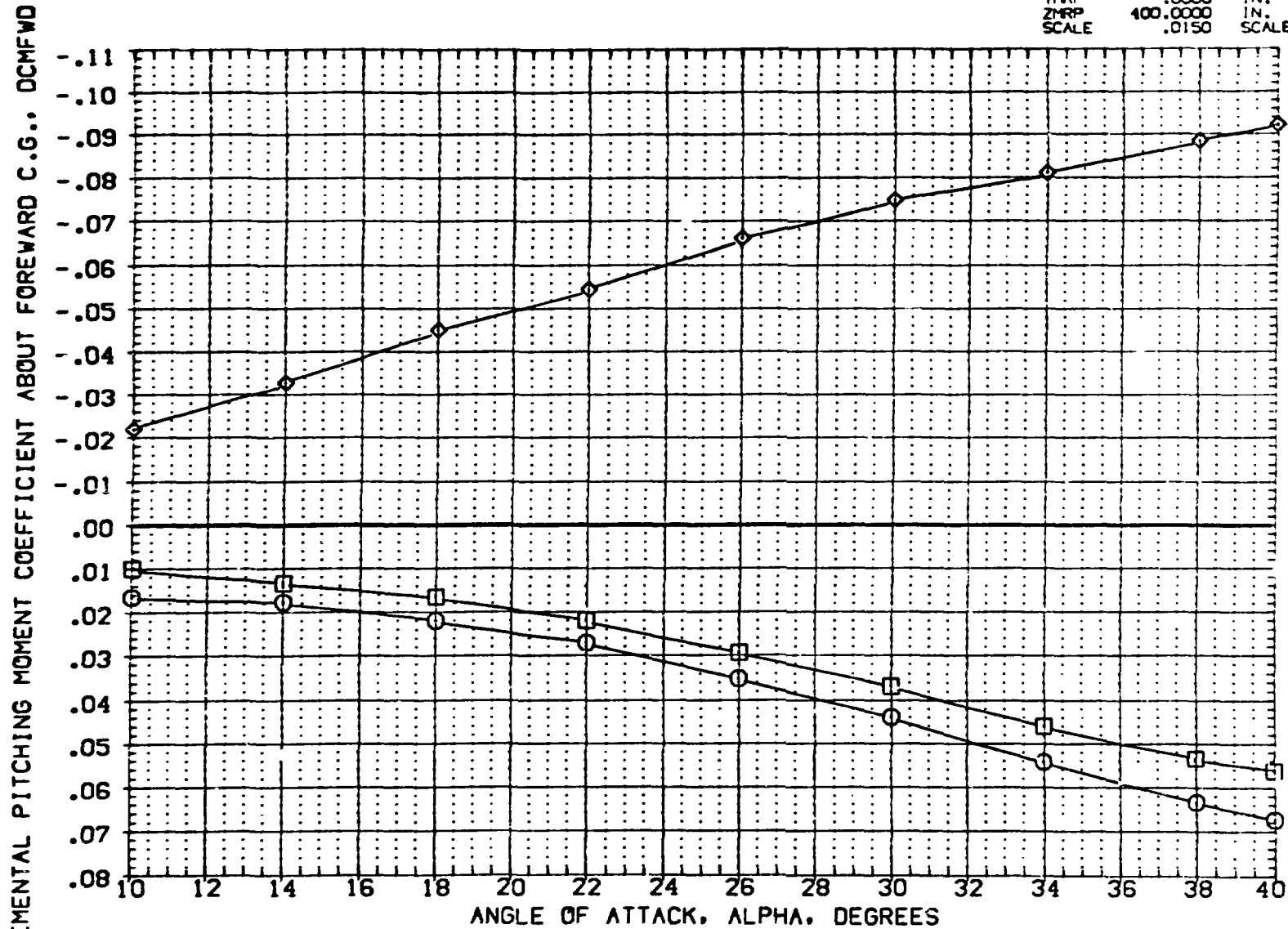


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86005)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4600 IN.
						ZMRP .0000 IN.
						SCALE 400.0000 IN.
						SCALE .0150 SCALE

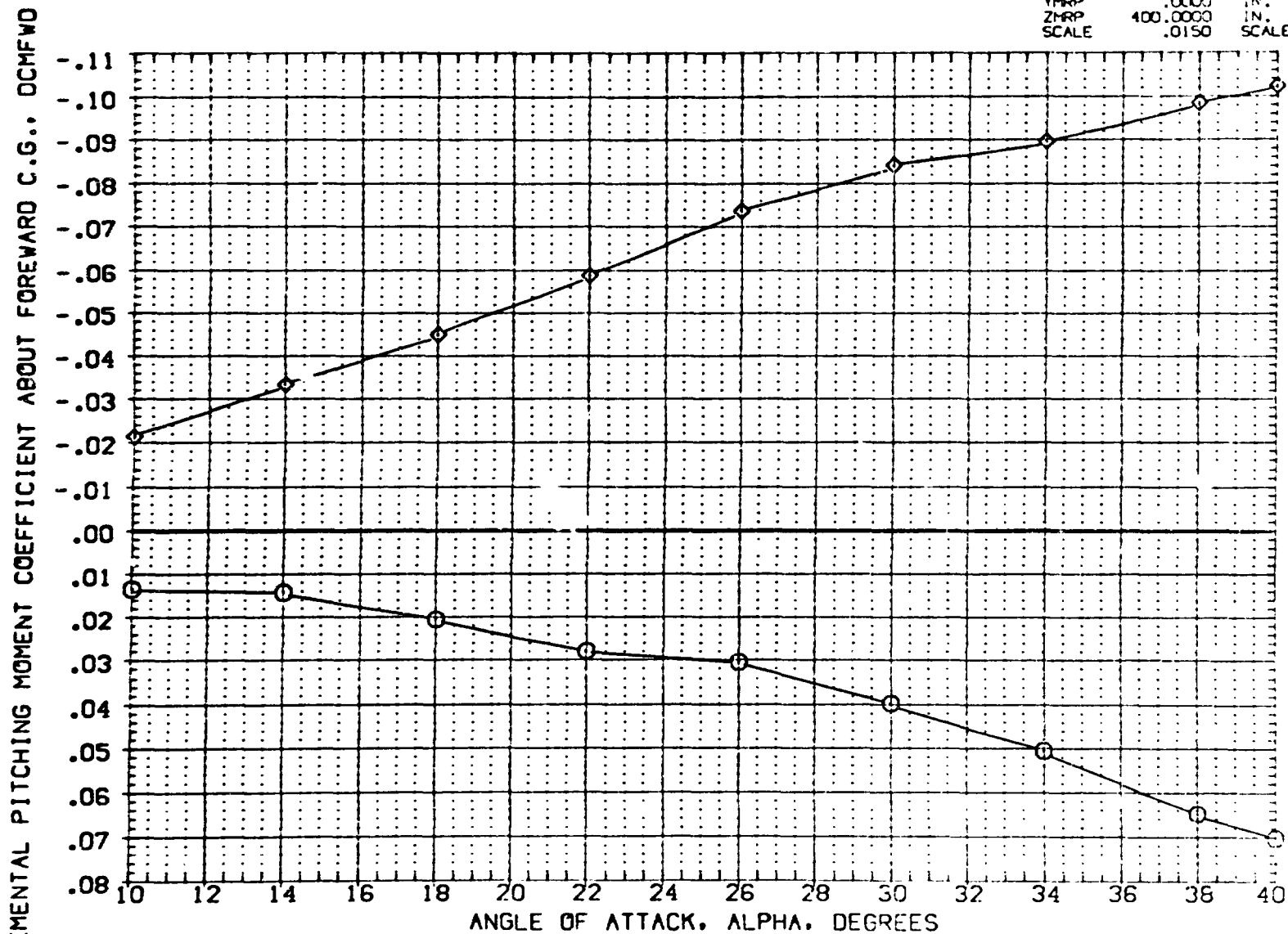


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFER. INFO.	INFORMATION
(TB6003)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(TB6005)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

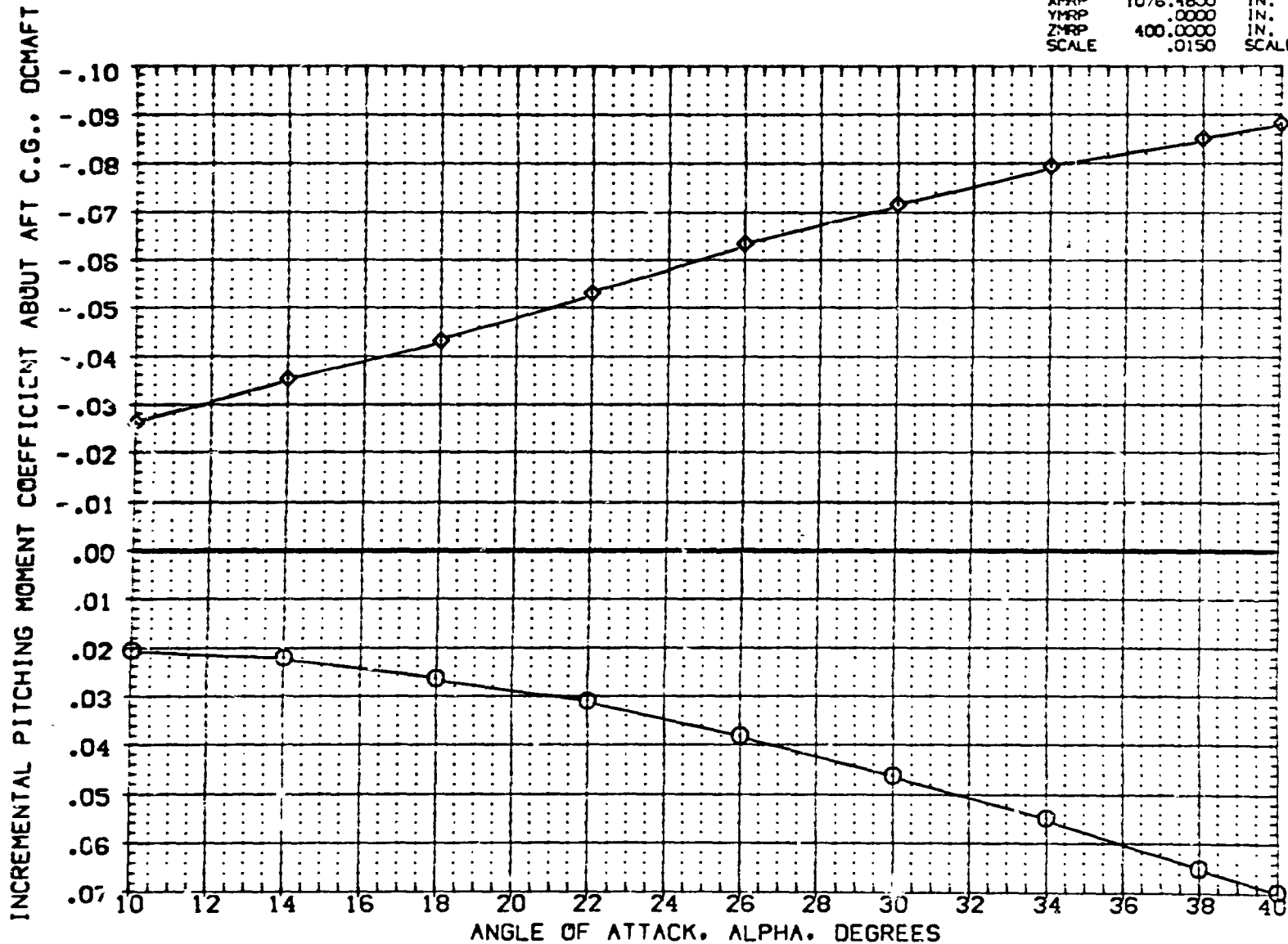


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	LE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86003)	AMES33.5-168 CA23 B22 0.00	15.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(T86004)	AMES33.5-168 CA23 B22 0.00	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86005)	AMES33.5-168 CA23 B22 0.00	15.000	-14.250	55.000	.000	BREF 936.5000 IN.
						XMRP 1076.0000 IN.
						YMRP 0.0000 IN.
						ZMRP 100.0000 IN.
						SCALE 0.0150 SCALE

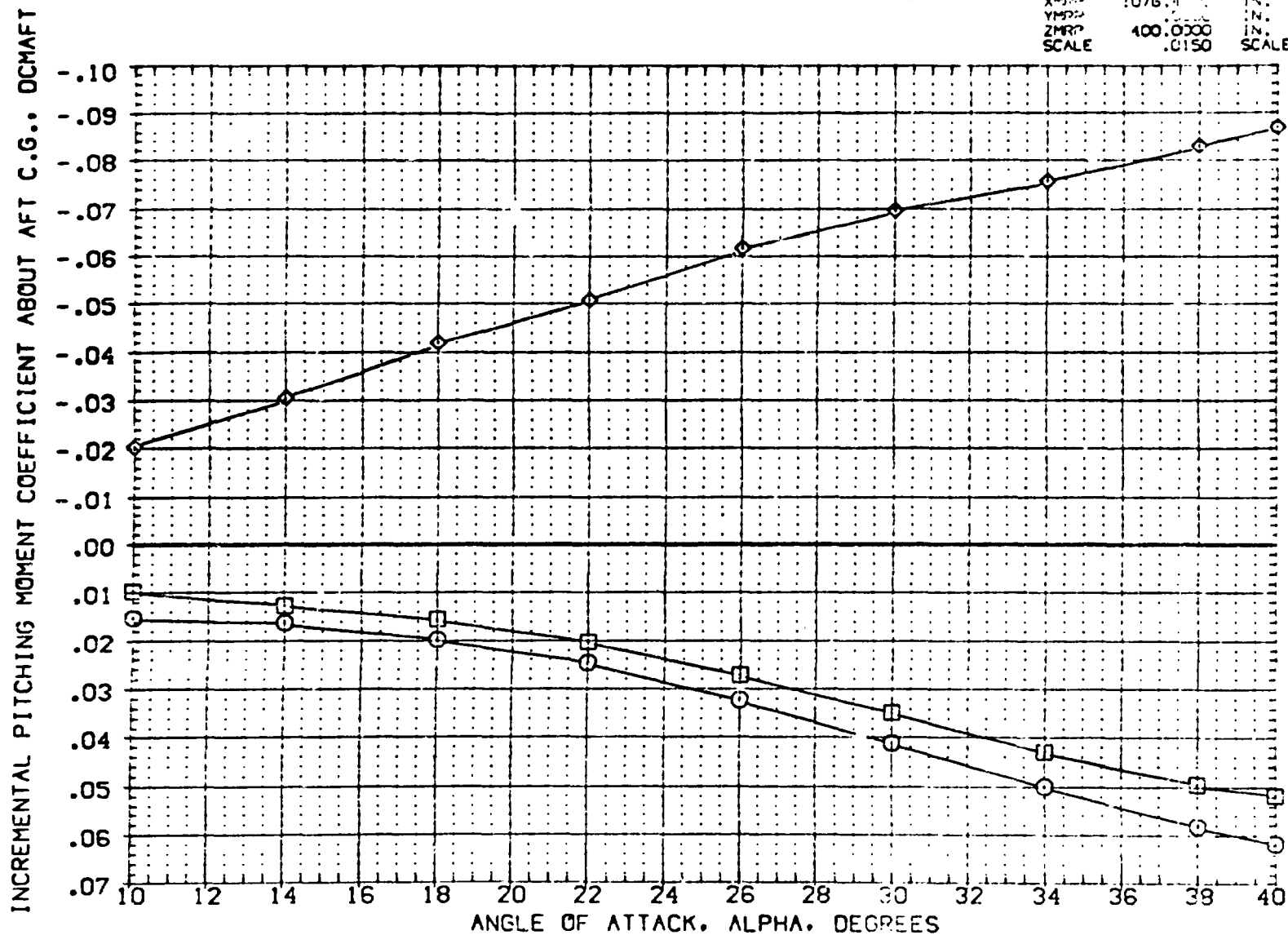


FIG. 4 ELEVON EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION		
(TB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000	50. FT.
(TB6004)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000	IN.
(TB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	BREF	936.6800	IN.
						XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0150	SCALE

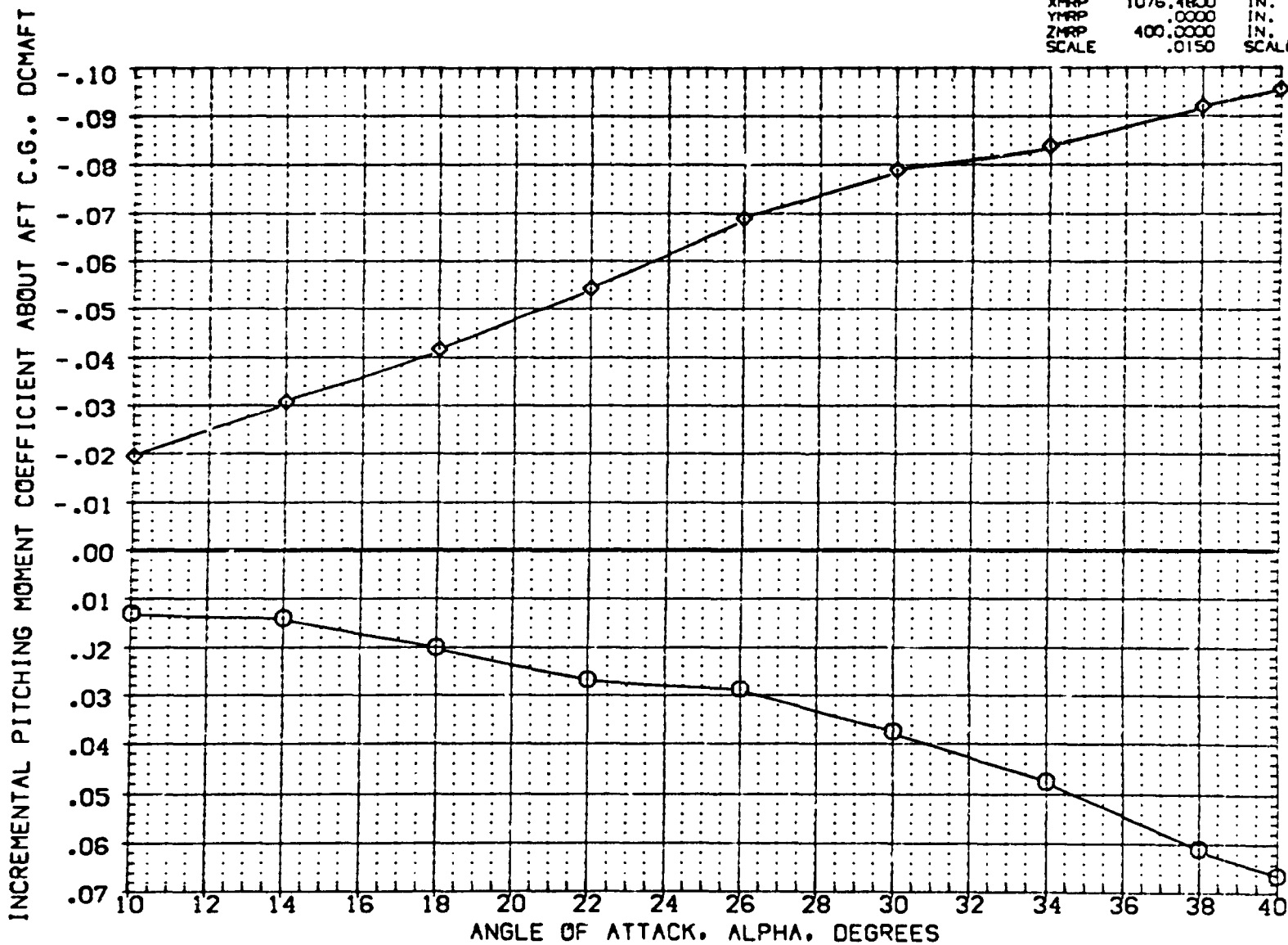


FIG. 4 ELEVON EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDRM	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.0000 IN.
						BREF 936.0000 IN.
						XREF 1076.0000 IN.
						YREF 0.0000 IN.
						ZREF 400.0000 IN.
						SCALE .0150 SCALE

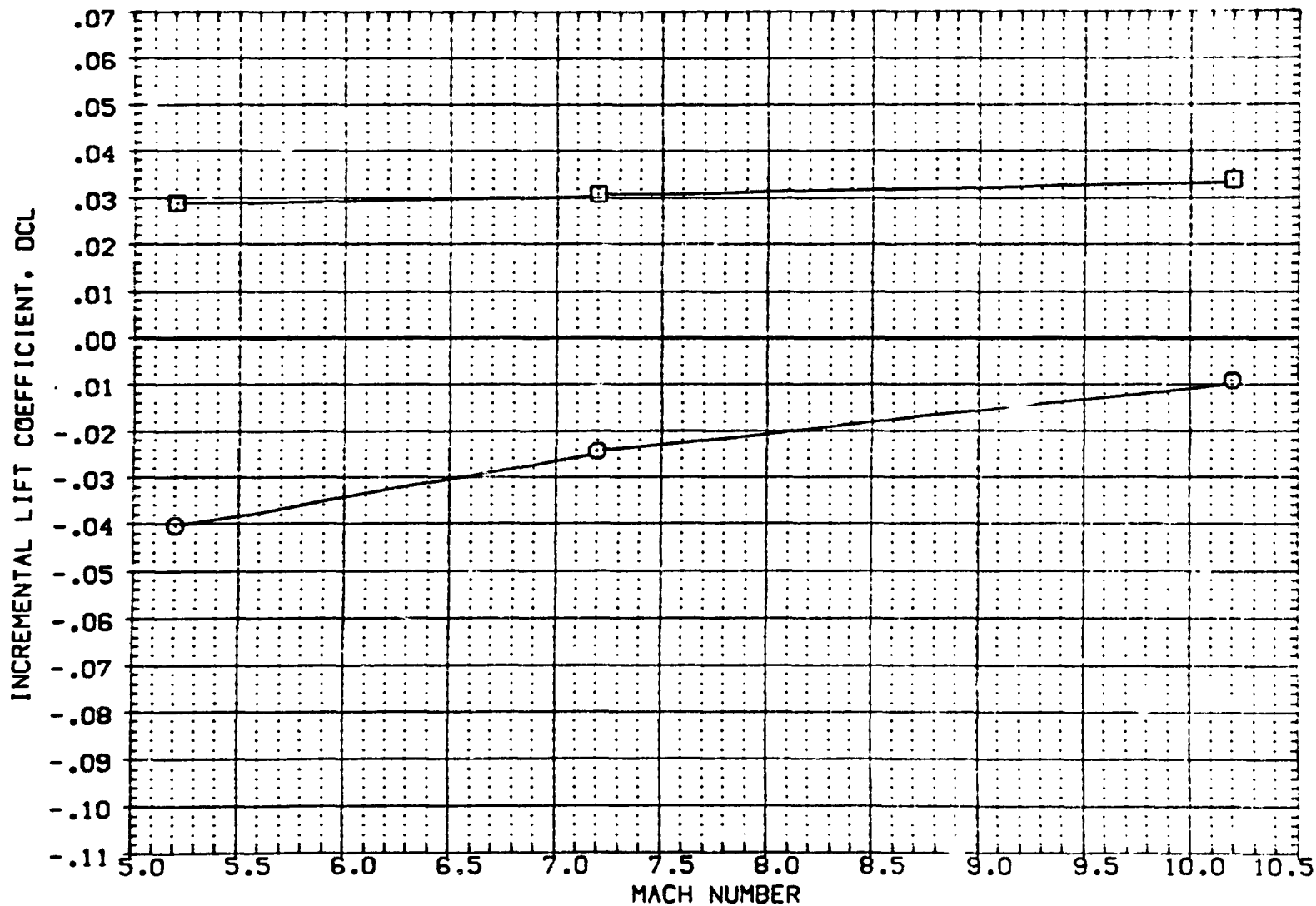


FIG. 4 ELEVON EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6003)	APES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6005)	APES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

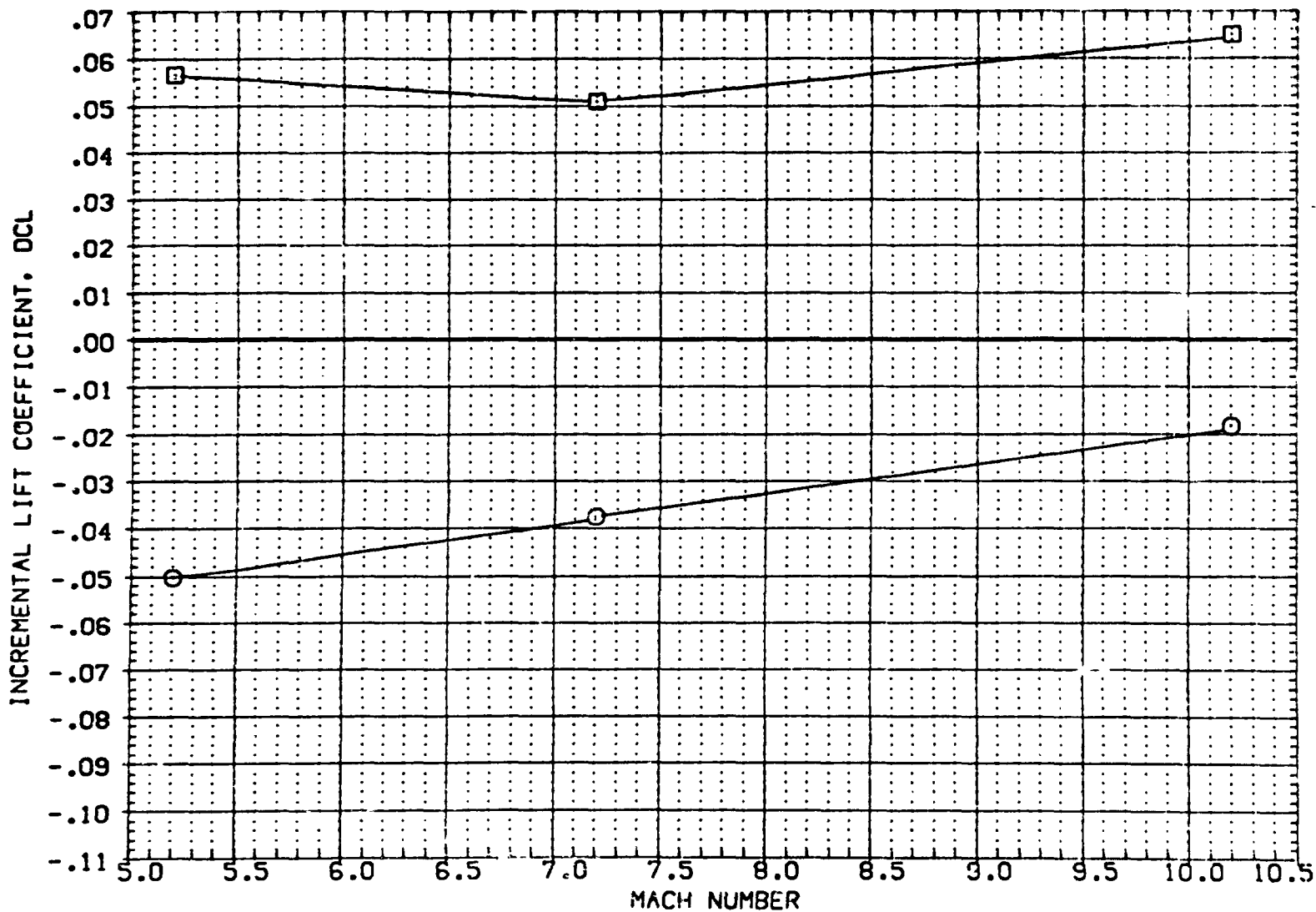


FIG. 4 ELEVON EFFECTS

(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION	
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(UB6005)	AMES3.5-158 OA23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	874.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

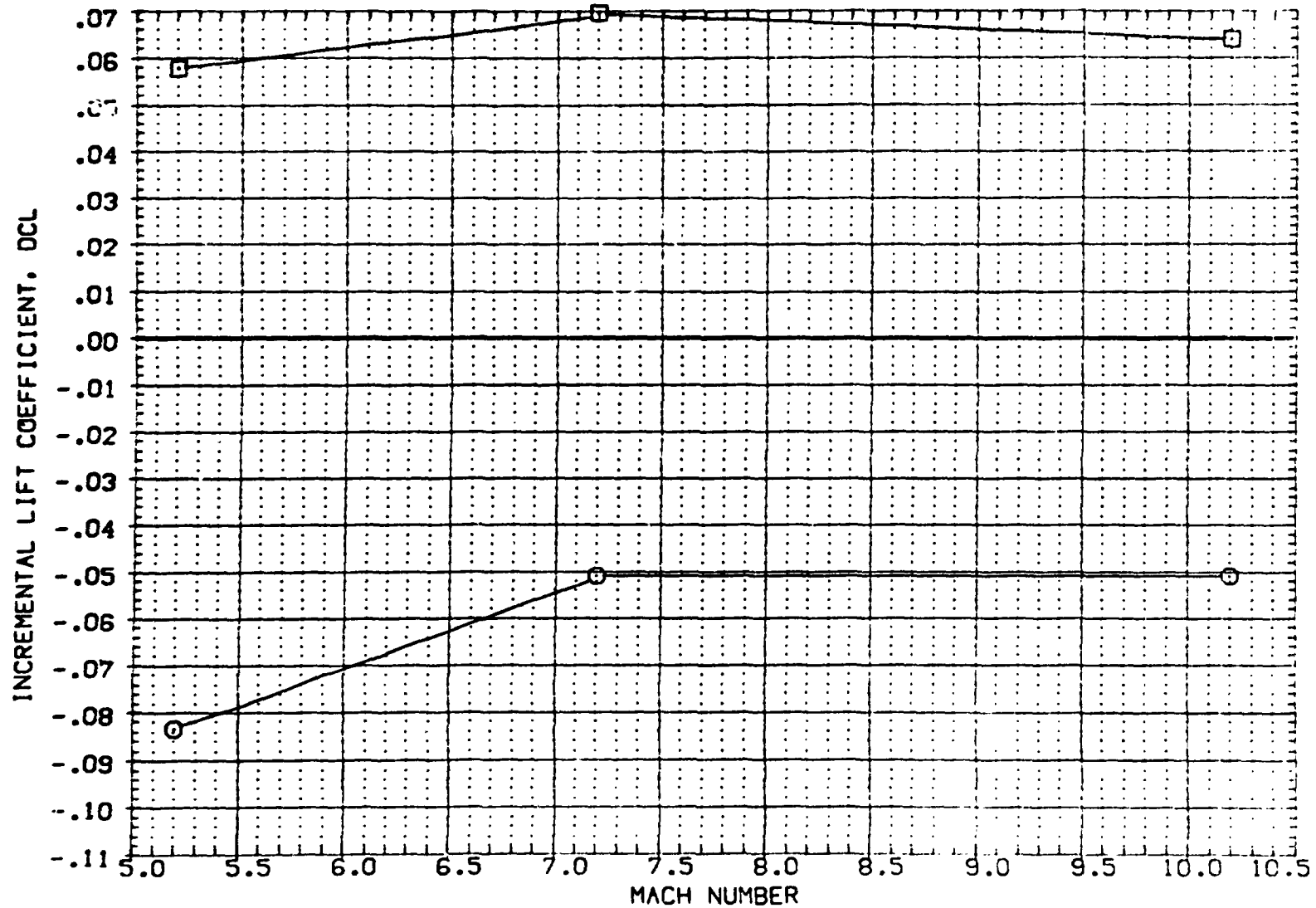


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(L06003)	□ AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L06005)	□ AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	55.000	.000	LREF 474.8000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

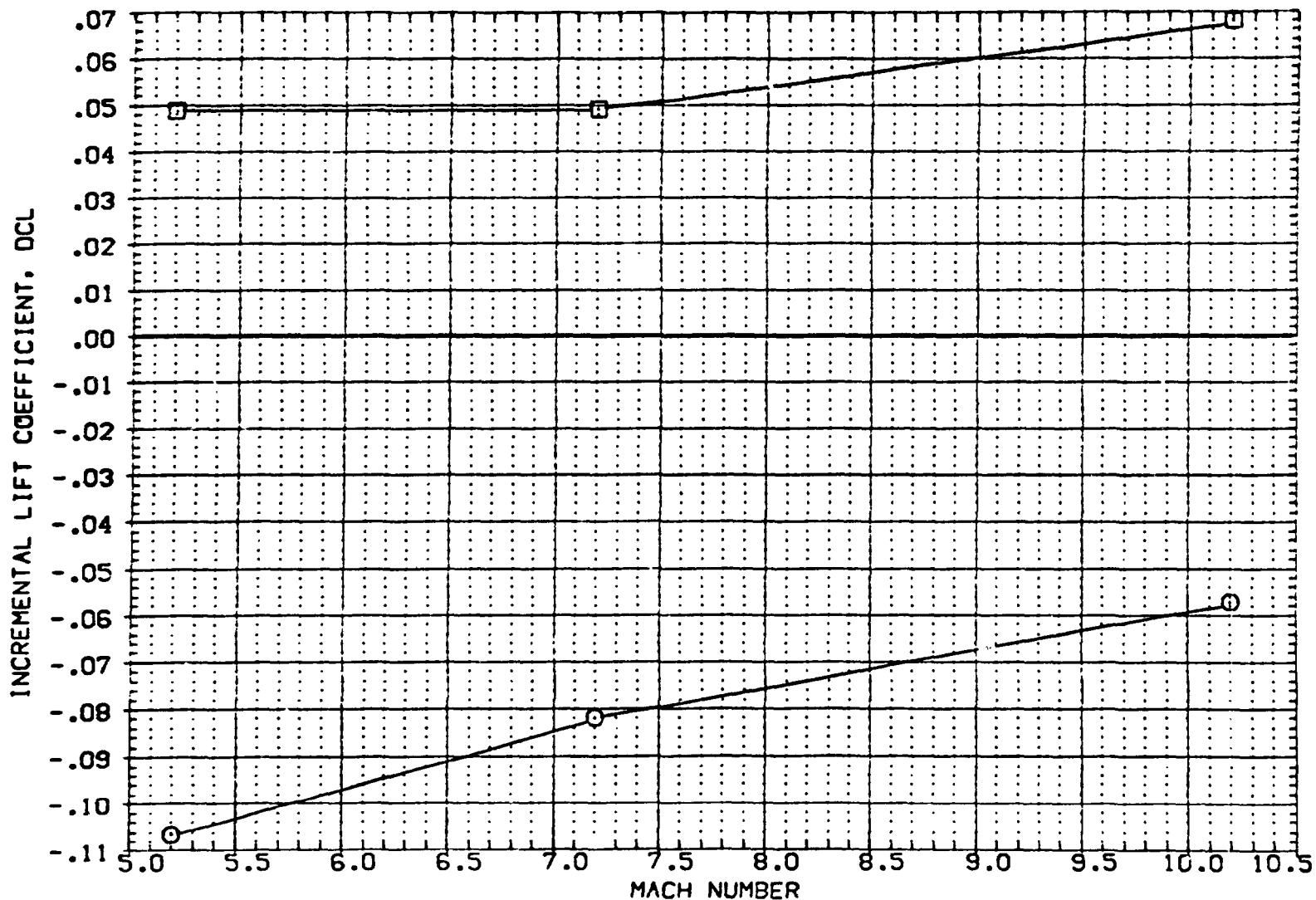


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(L86003)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(L86005)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

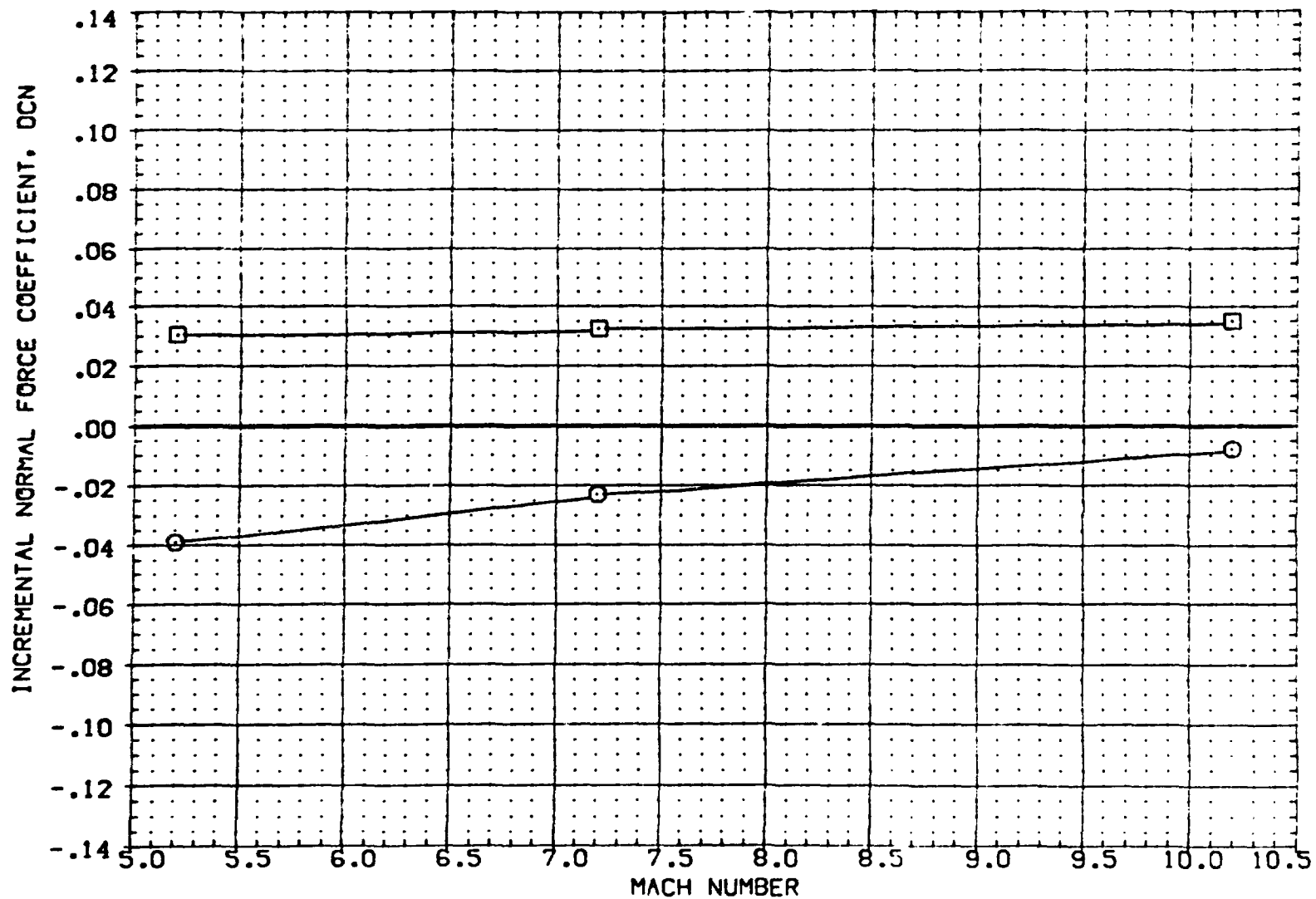


FIG. 4 ELEVON EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION	
{UB6003}	□ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
{UB6005}	□ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

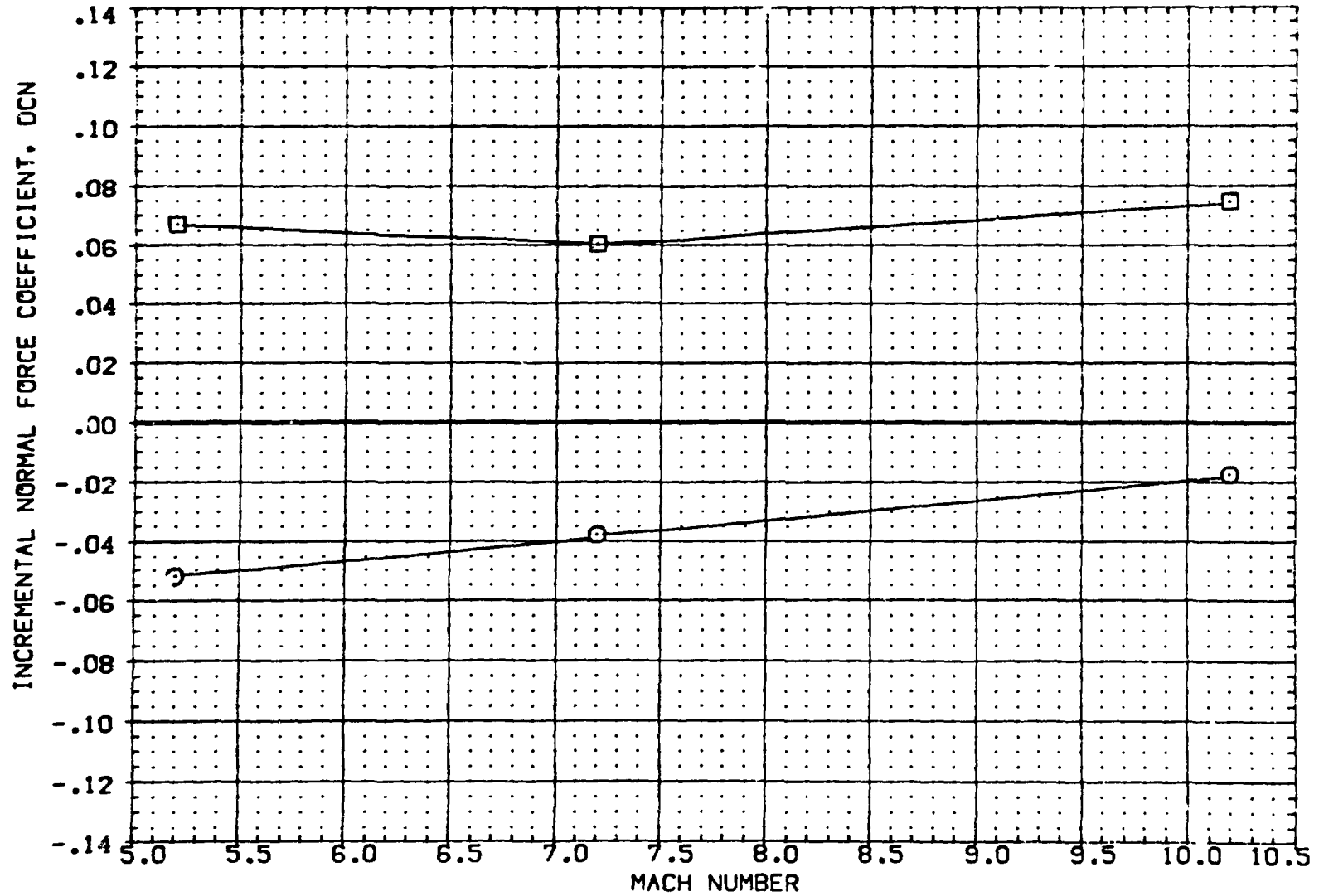


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOORK	RUDDER	REFERENCE INFORMATION	
(L86003)	□ AMES3.5-168 OA23 B22 C7 E23 FS M4 RS V7 V107	-40.000	-14.250	55.000	.000	SREF	2620.0000 SQ.FT.
(L86005)	□ AMES3.5-168 OA23 B22 C7 E23 FS M4 RS V7 V107	15.000	55.000	.000	LREF	474.8000 IN.	
						GREF	936.6800 IN.
						XMRP	1076.4000 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

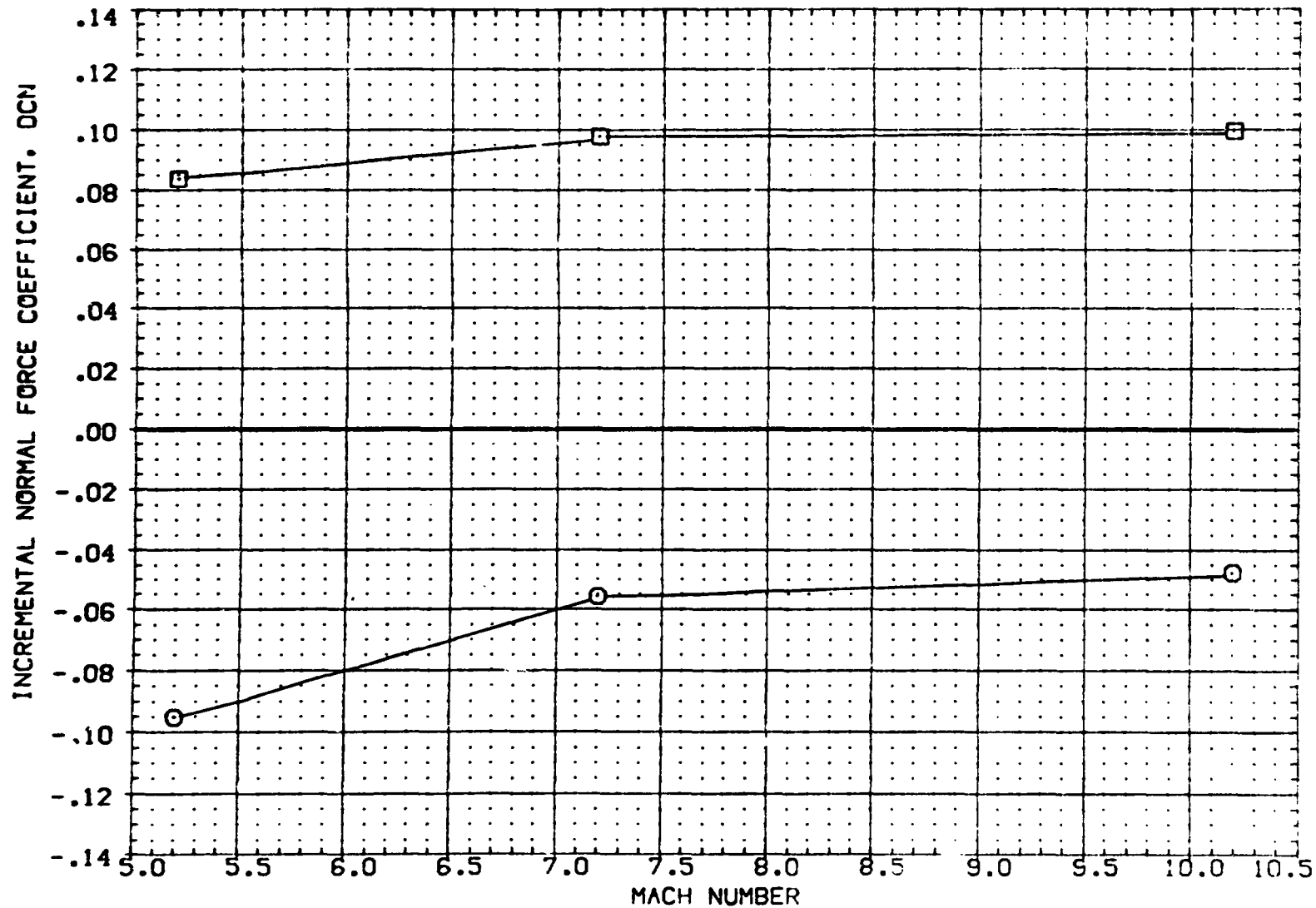


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L16003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L66005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.5800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

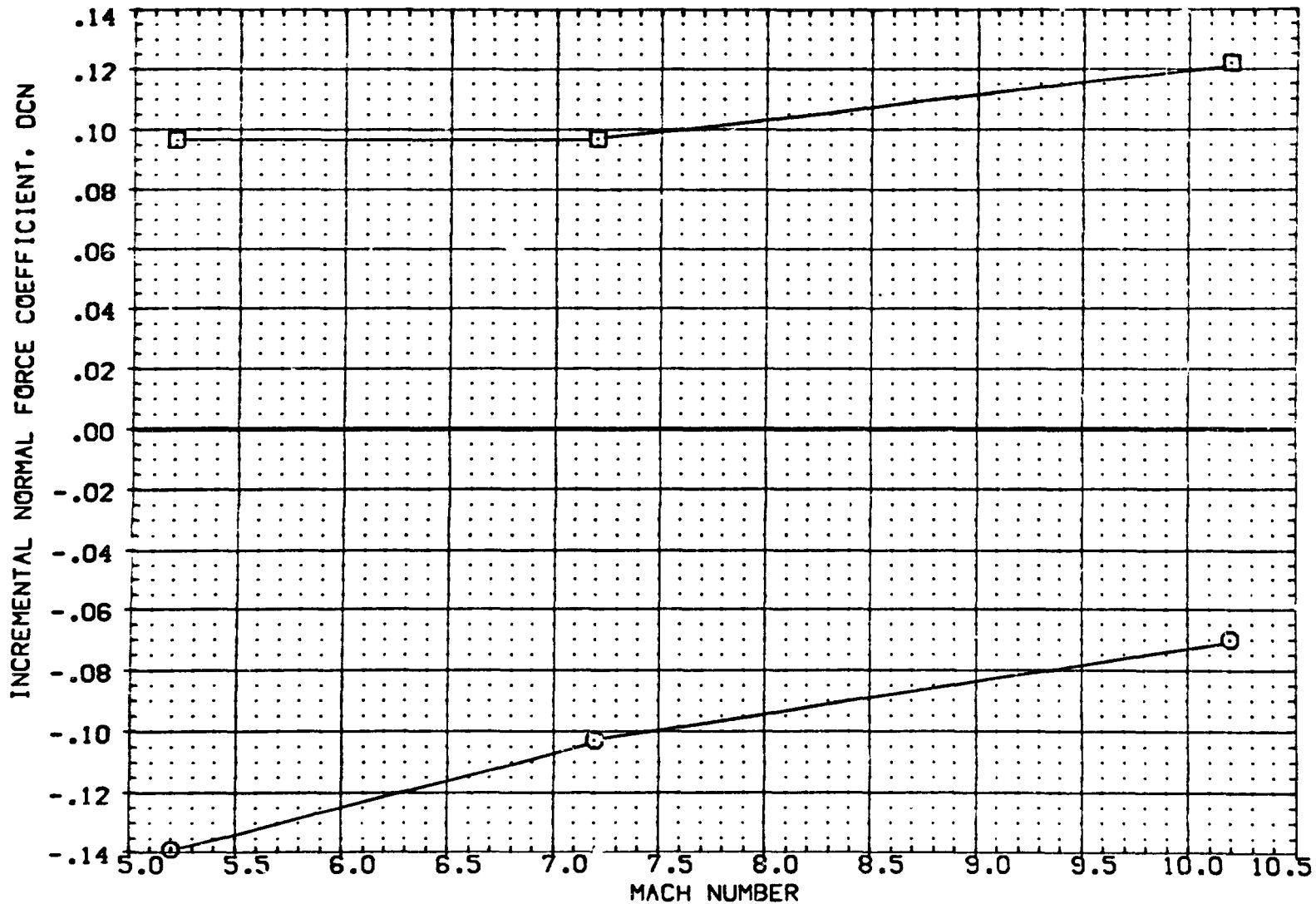


FIG. 4 ELEVON EFFECTS
(O) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(L86005)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	

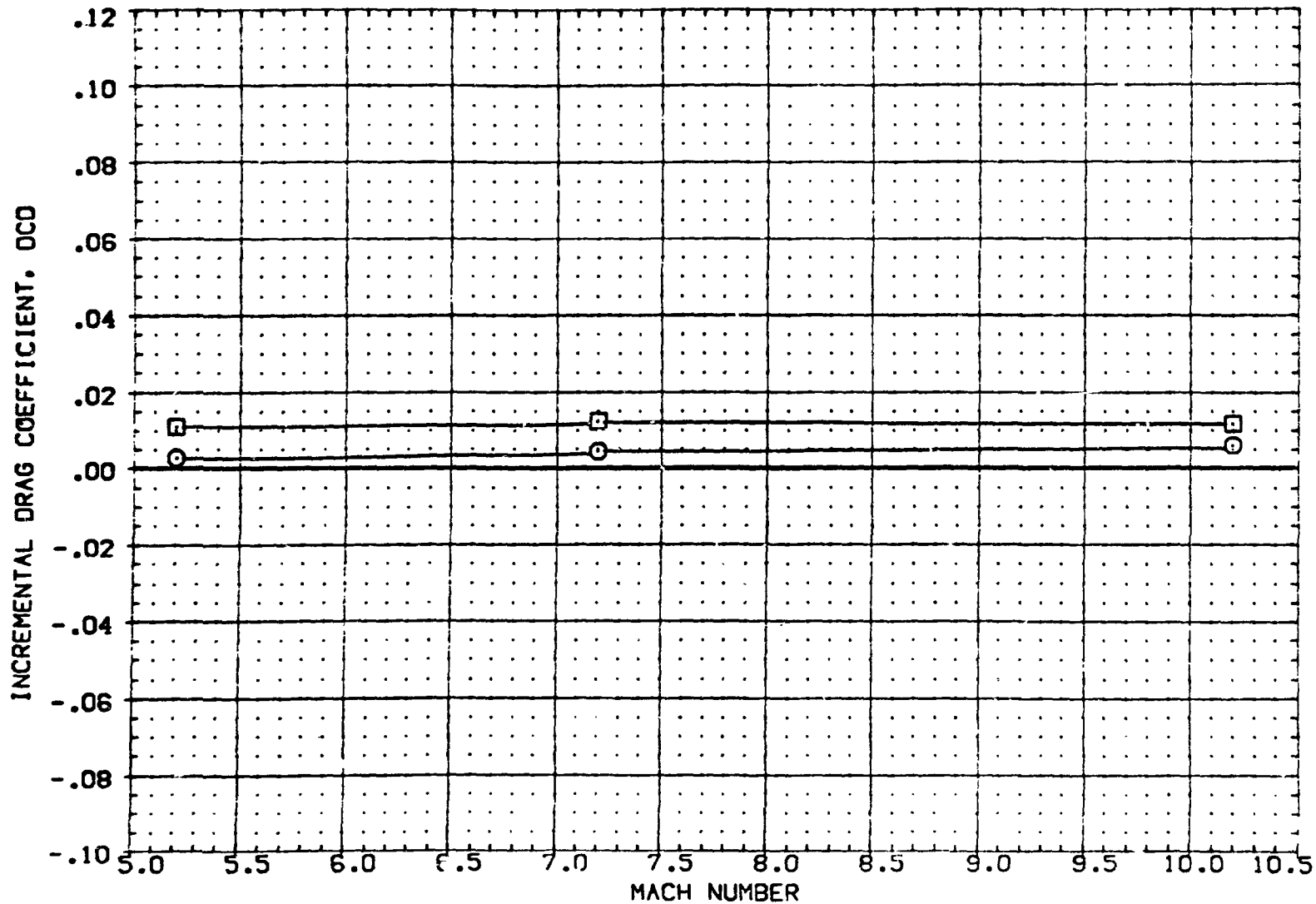


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDPLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(U66003) □	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SO.FT.
(U66005) □	AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

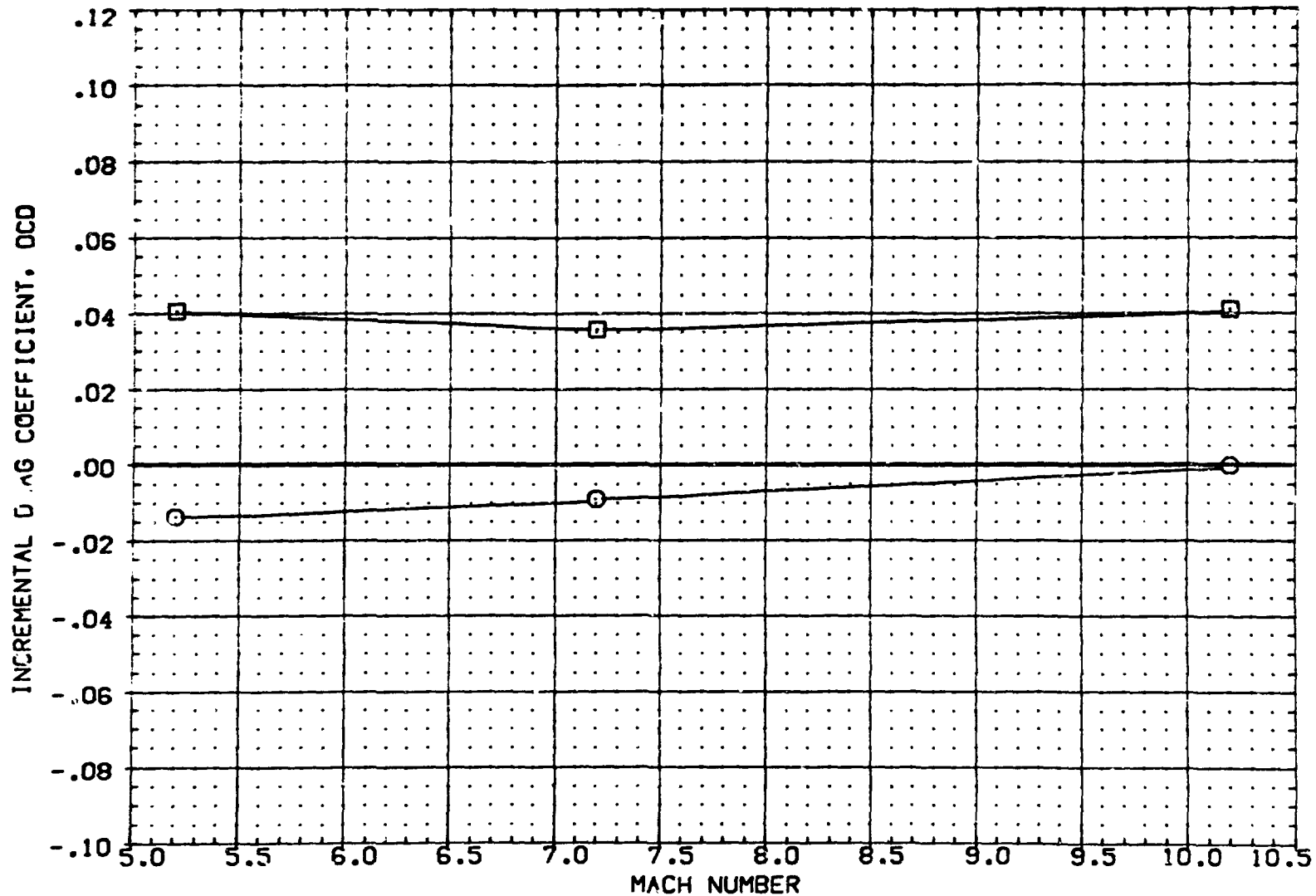


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	EDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	□ A1E53.5-168 0A23 822 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86005)	□ A1E53.5-168 0A23 822 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

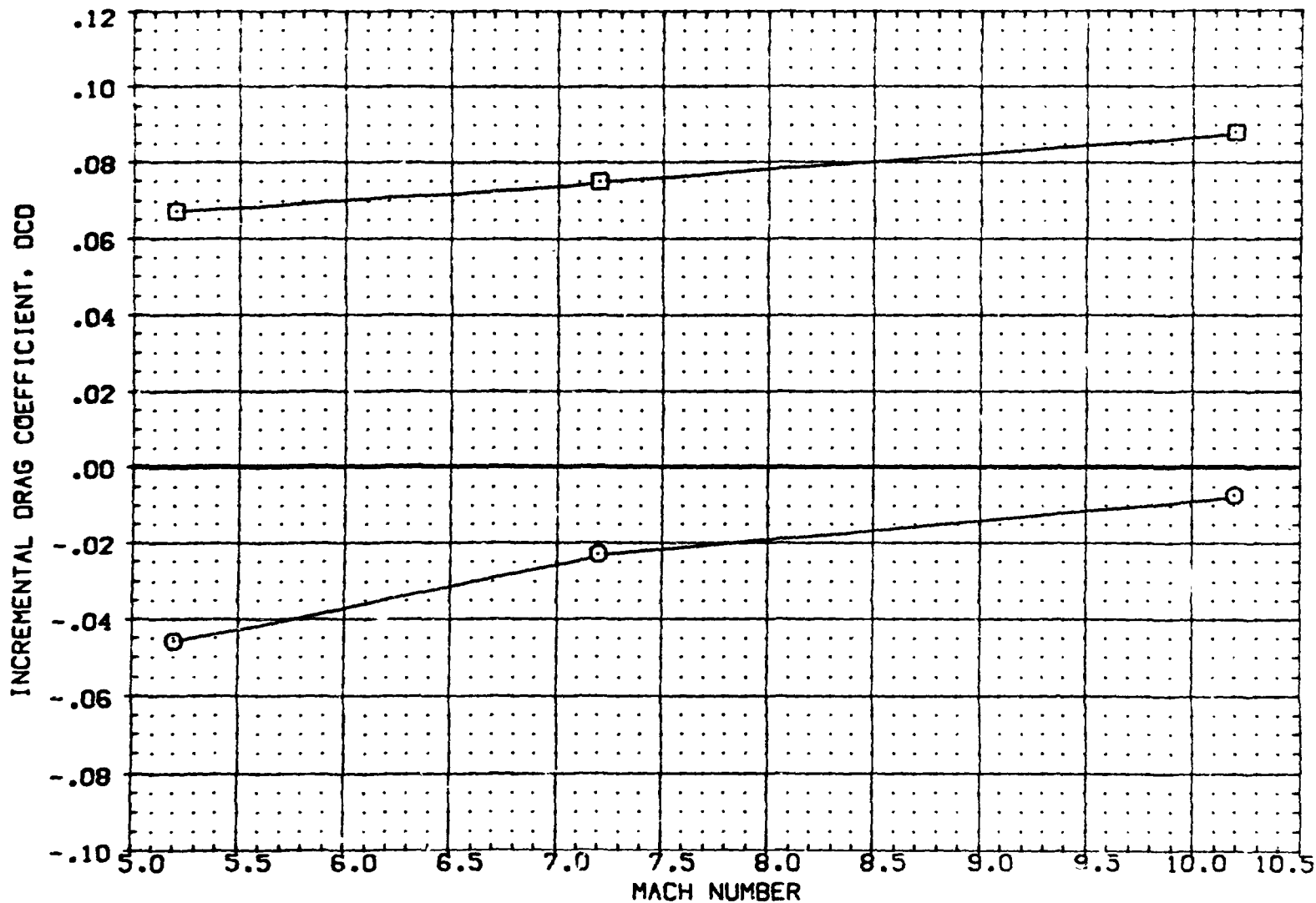


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RLOOR	REFERENCE INFORMATION	
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	474.6000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.3000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

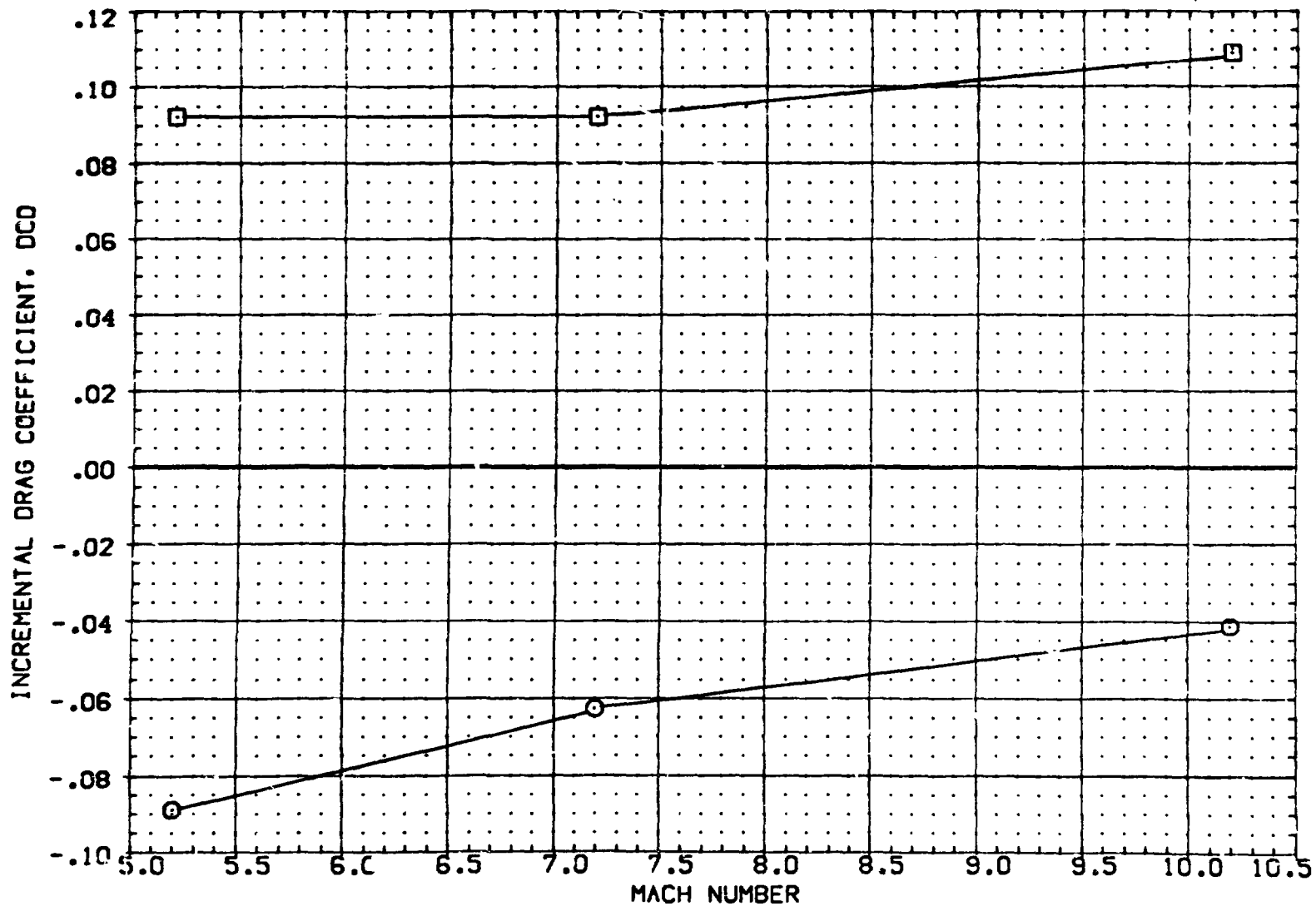


FIG. 4 FLEVON EFFECTS
(O) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	□ AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	-40.000	-11.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86005)	○ AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	15.000	55.000	.000	LREF 474.8000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

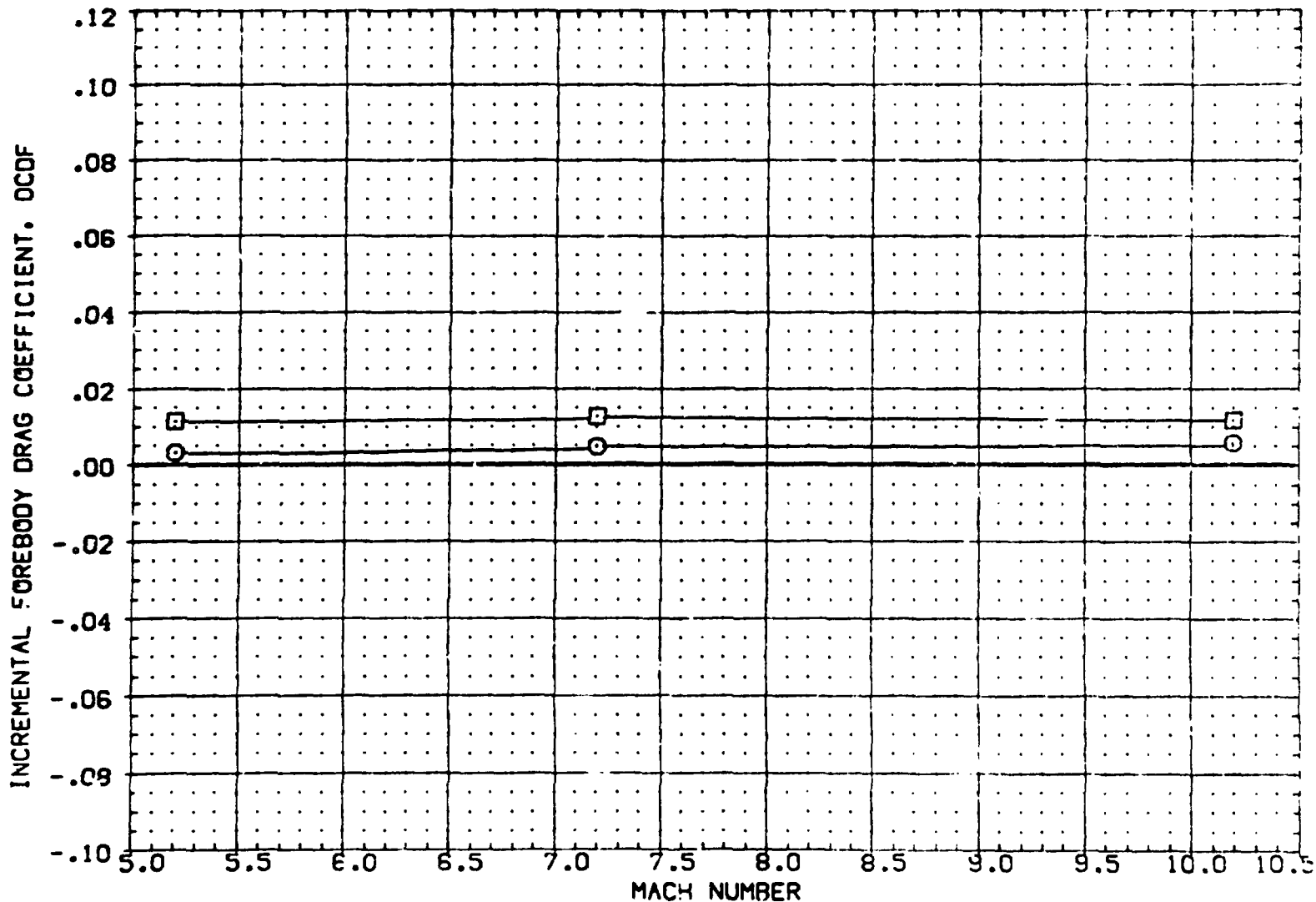


FIG. 4 ELEVON EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	□ APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(UB6005)	□ APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	

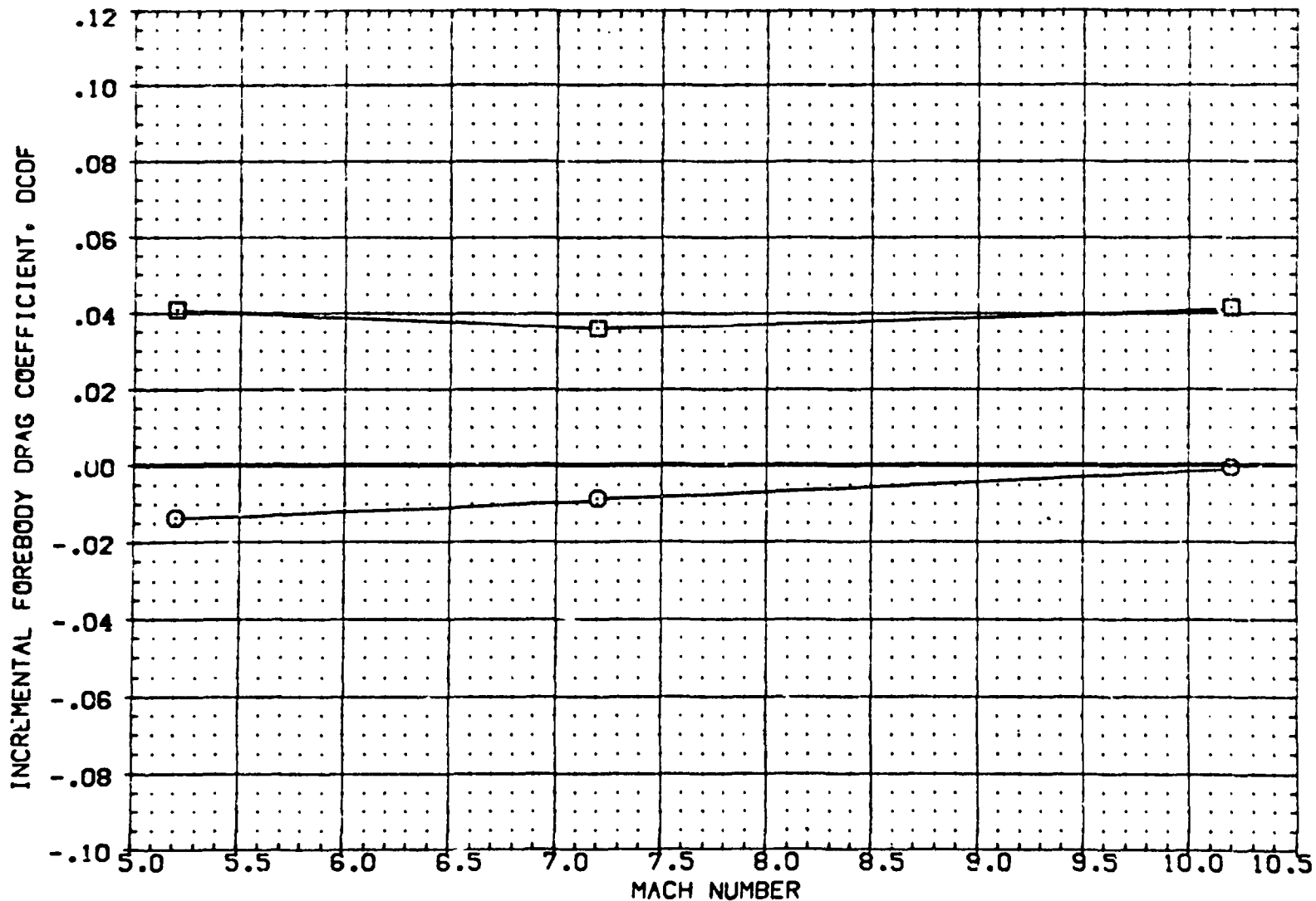


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	AMES3.5-168 GA23 B22 C7 E23 FS H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86005)	AMES3.5-168 GA23 B22 C7 E23 FS H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

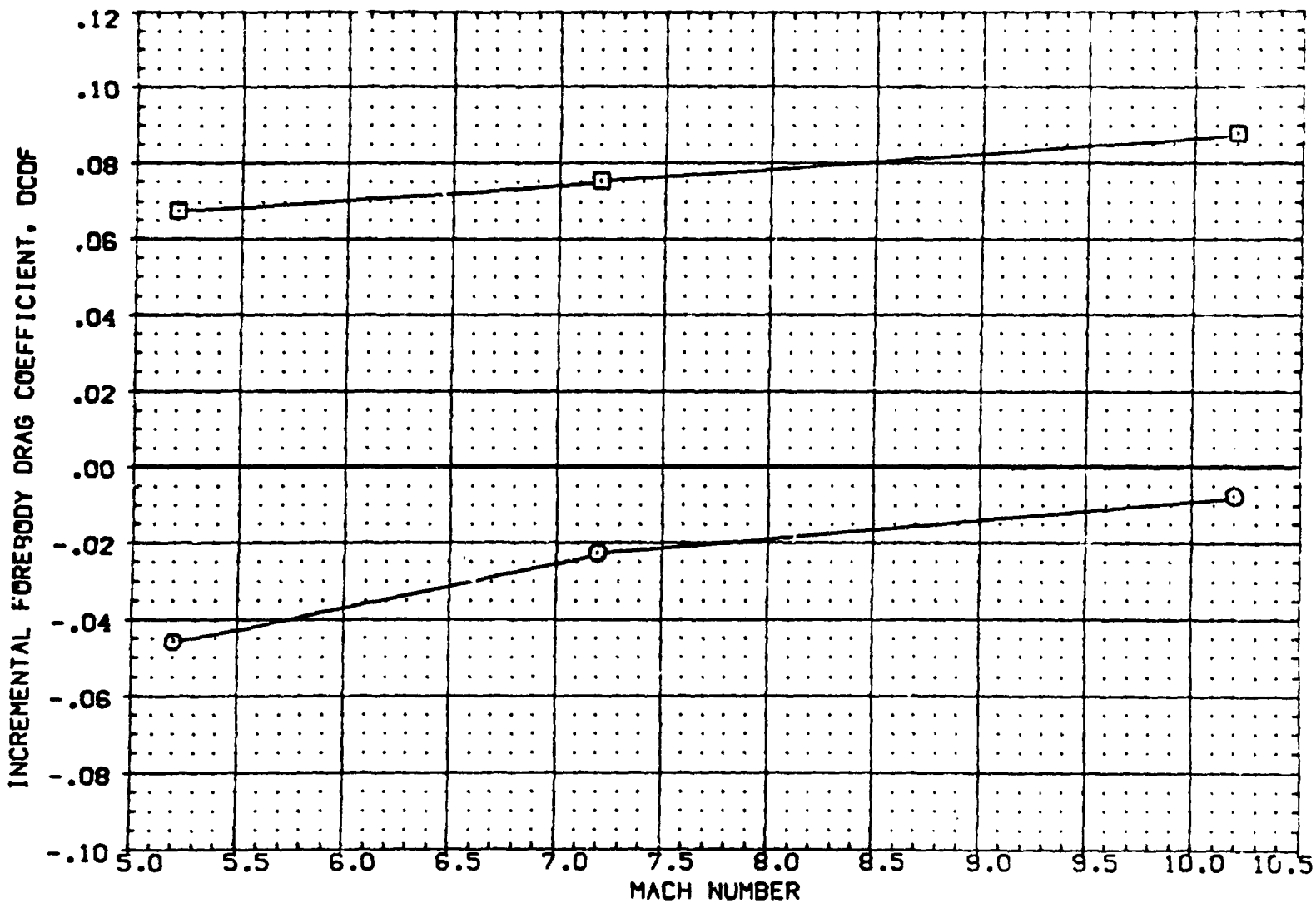


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDOFF	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

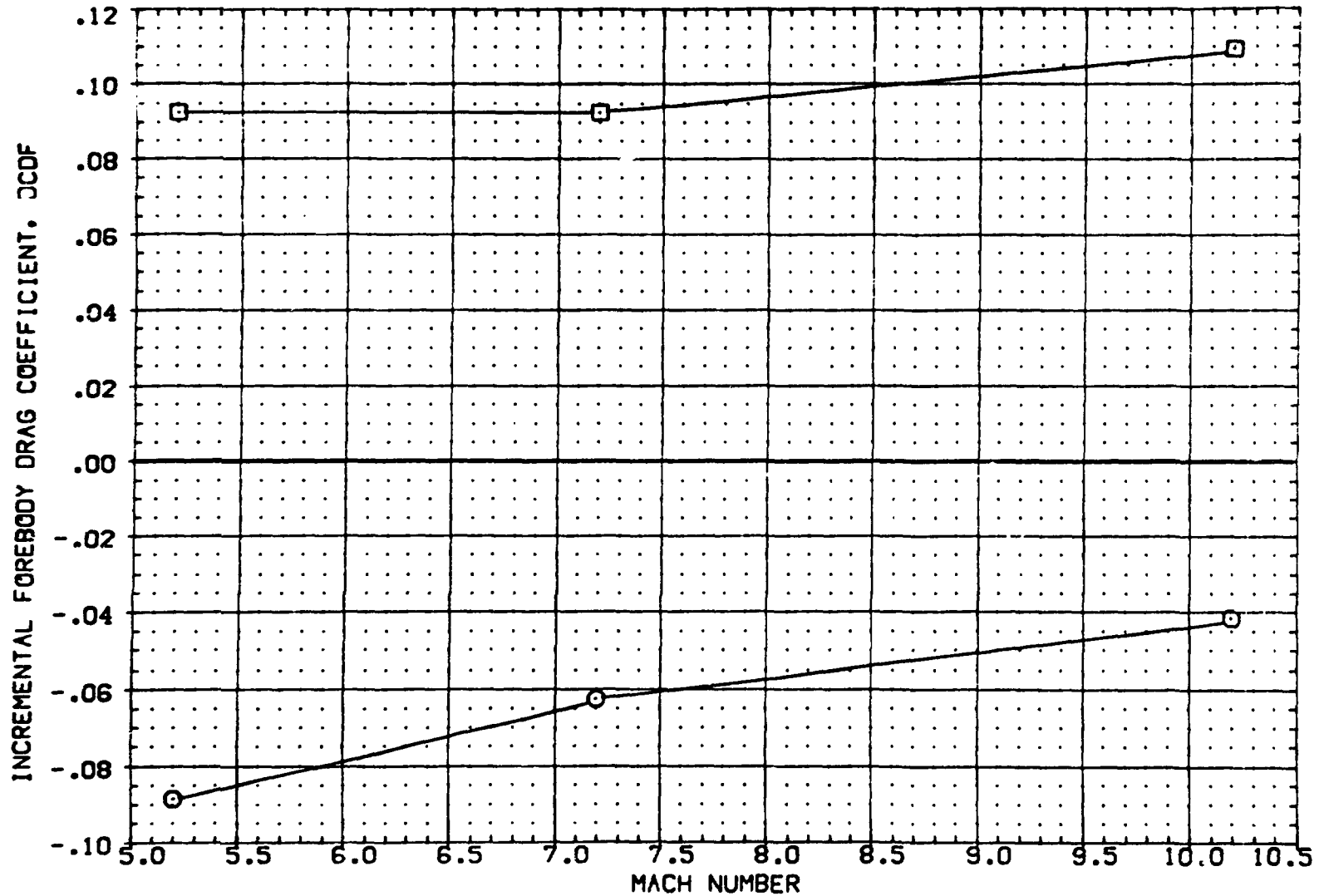


FIG. 4 ELEVON EFFECTS
(D) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPCRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 FS M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

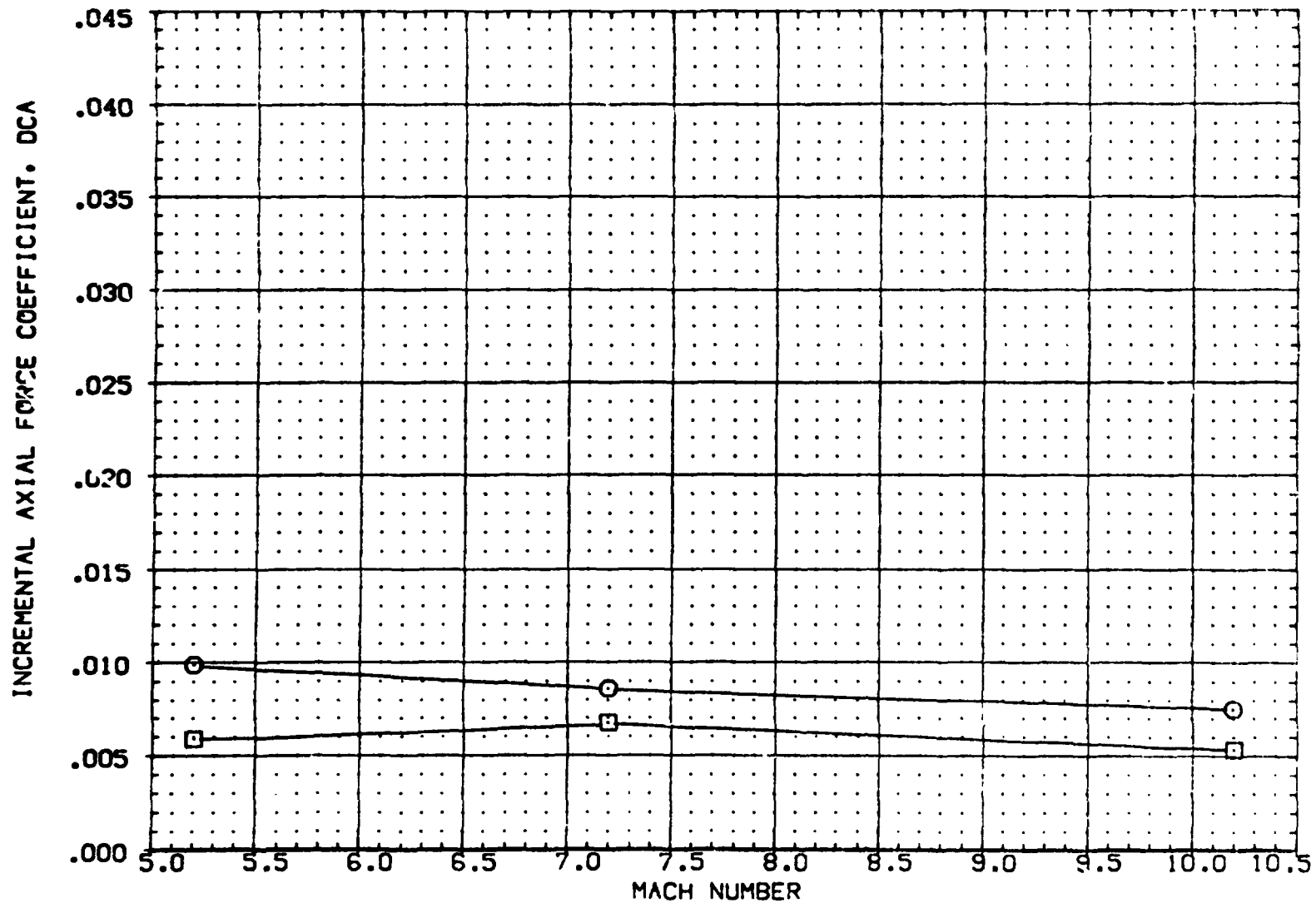


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6003)	□ AMES3.5-168 0A23 B22 C7 E23 F3 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(LB6005)	□ AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

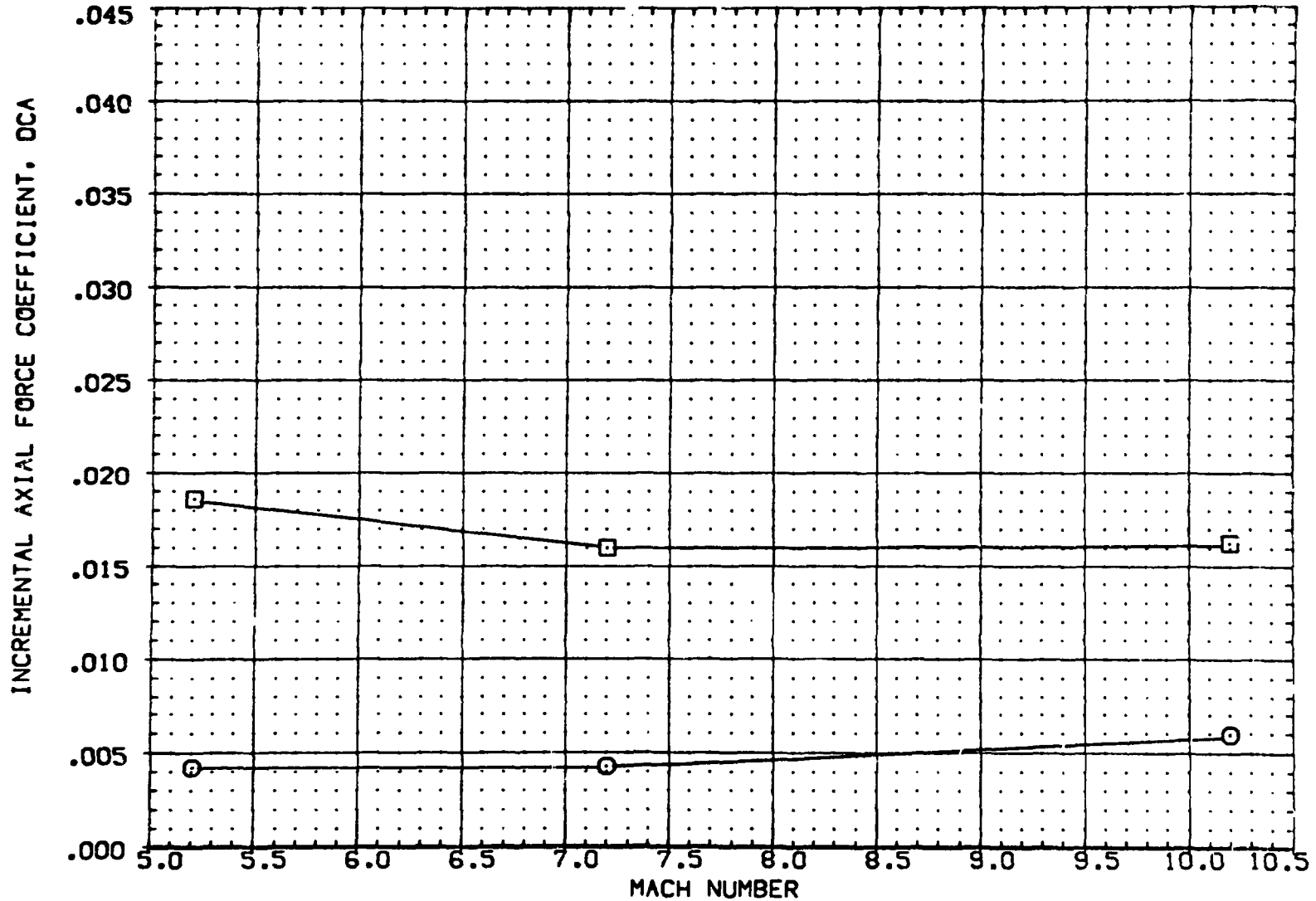


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(L86003)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(L86005)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	55.000	.000	LREF	474.8000 IN.	
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

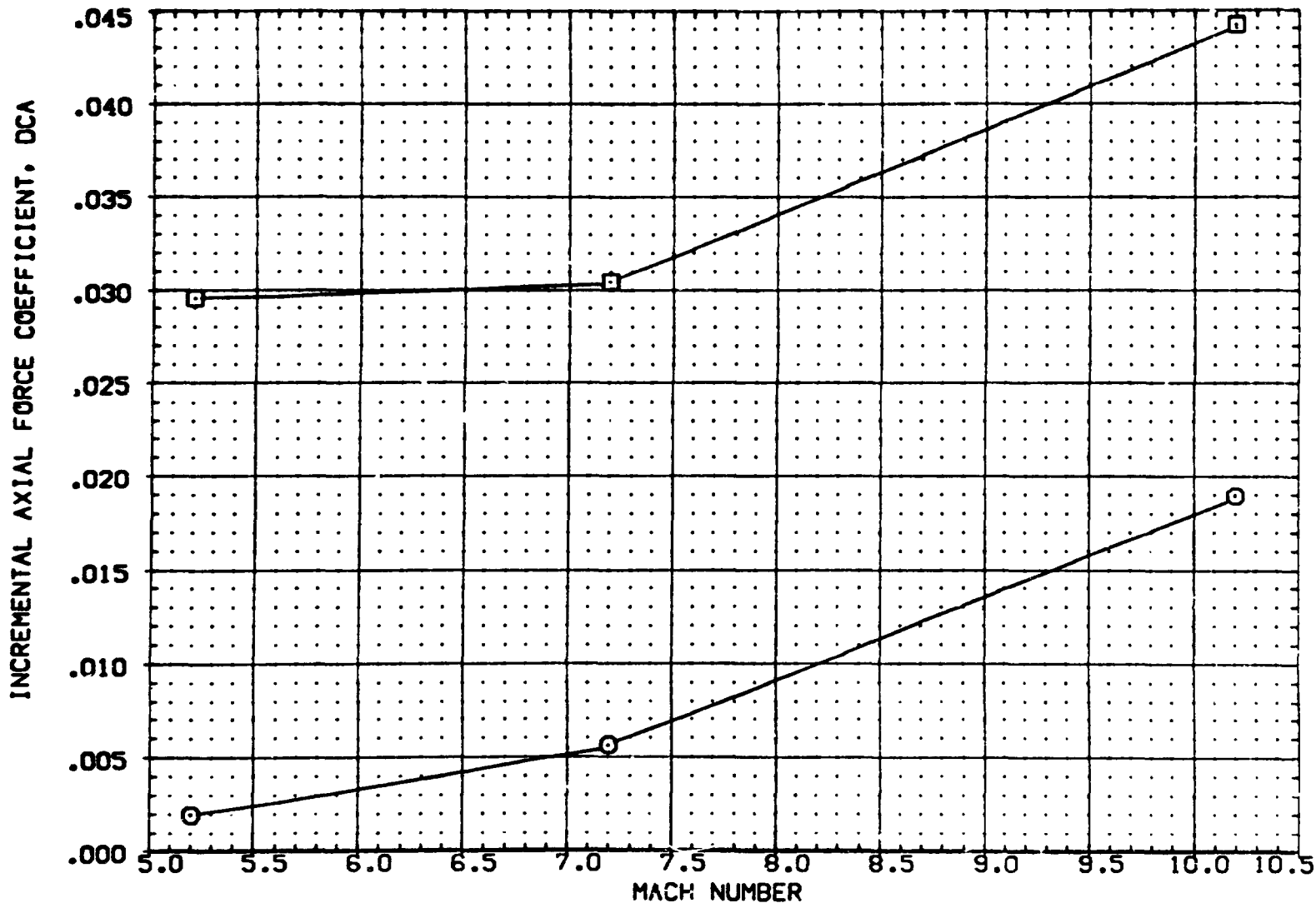


FIG. 4 ELEVON EFFECTS
(C)ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBO	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(L86003)	□ APES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 90.FT.
(L86005)	□ APES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

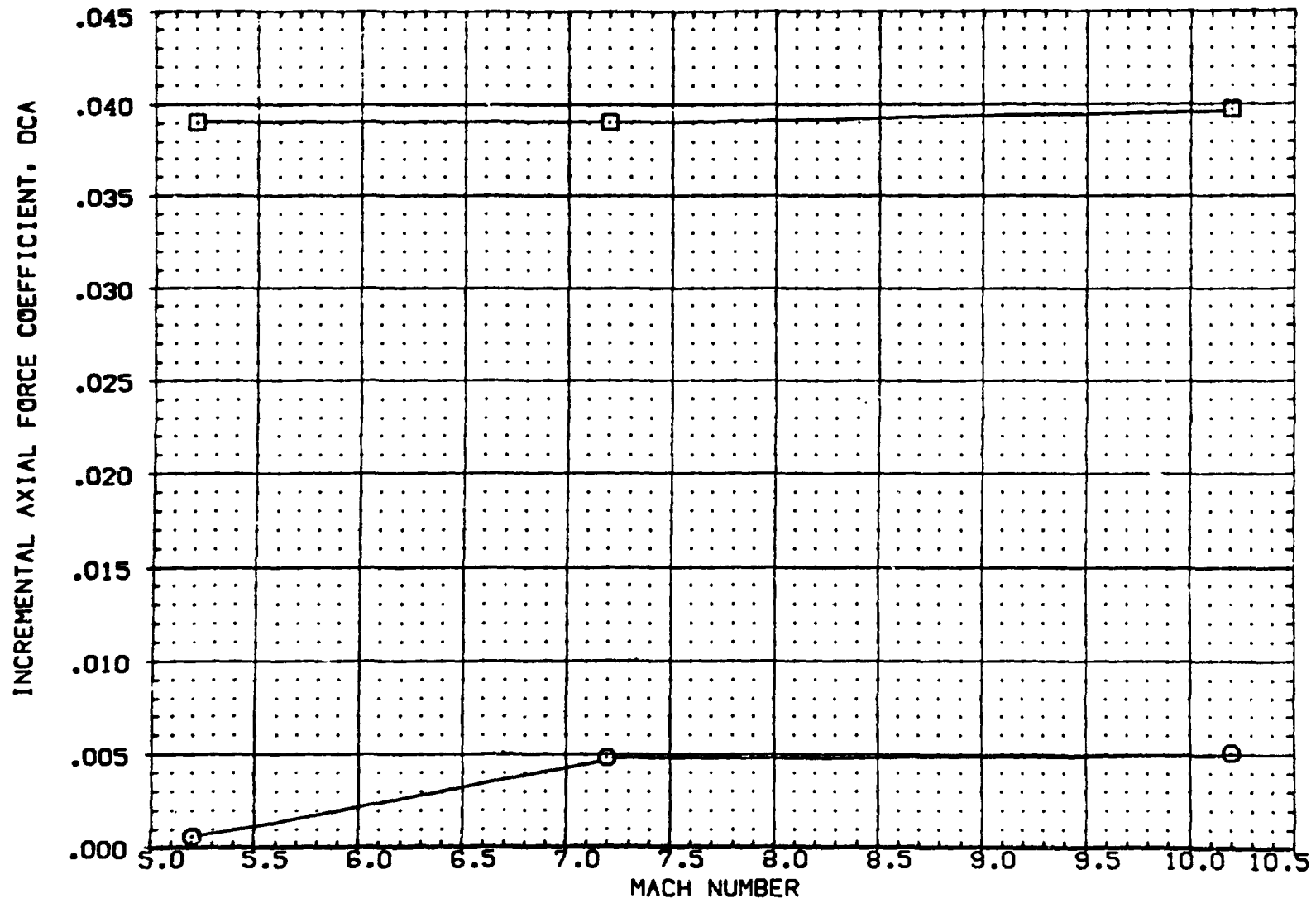


FIG. 4 ELEVON EFFECTS
 (O) ALPHA = 40.00
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
{LB6003}	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
{LB6005}	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	55.000	.000	LREF 474.8000 IN.	
						BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

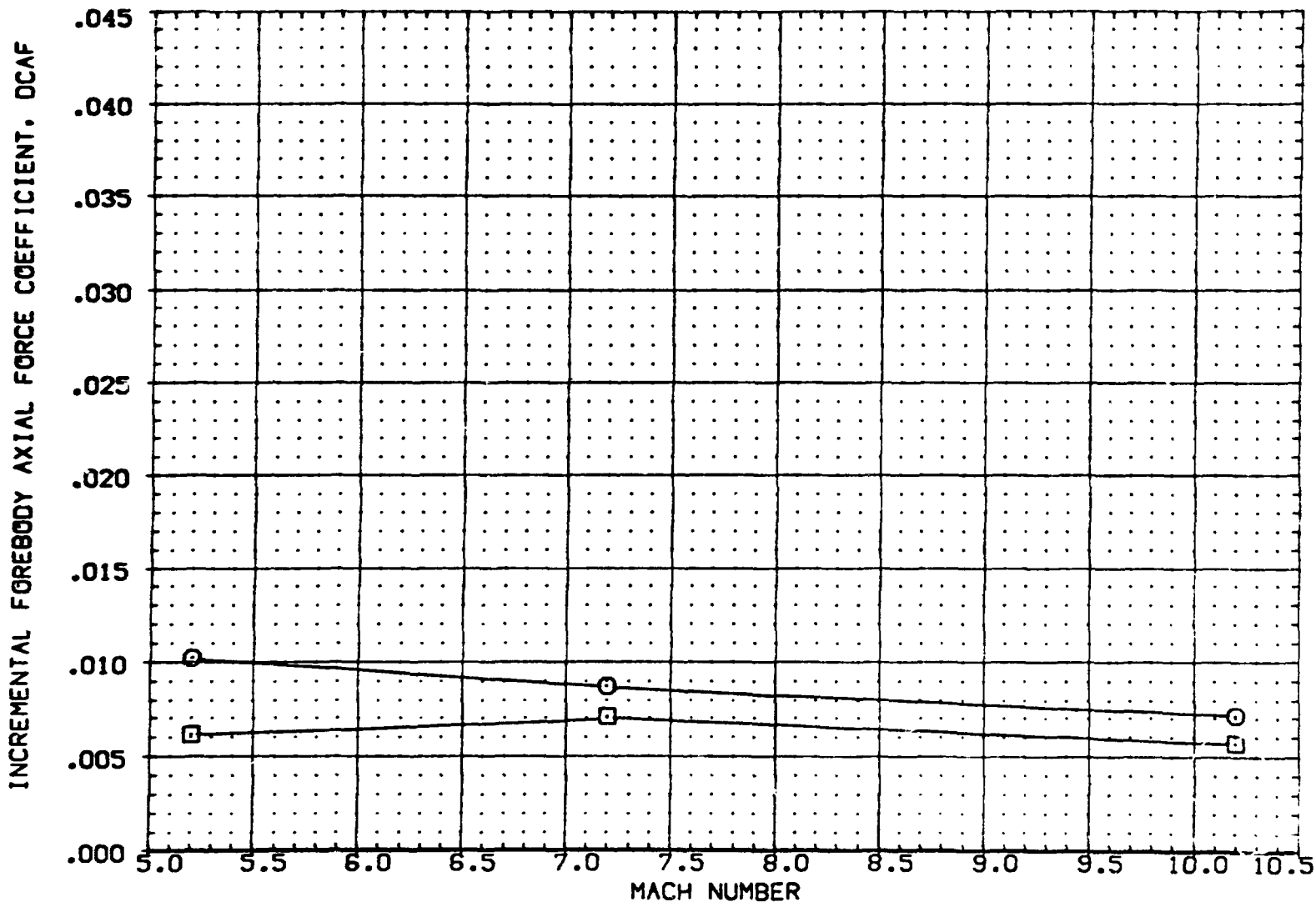


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	○ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	55.000	.000	LREF 474.6000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

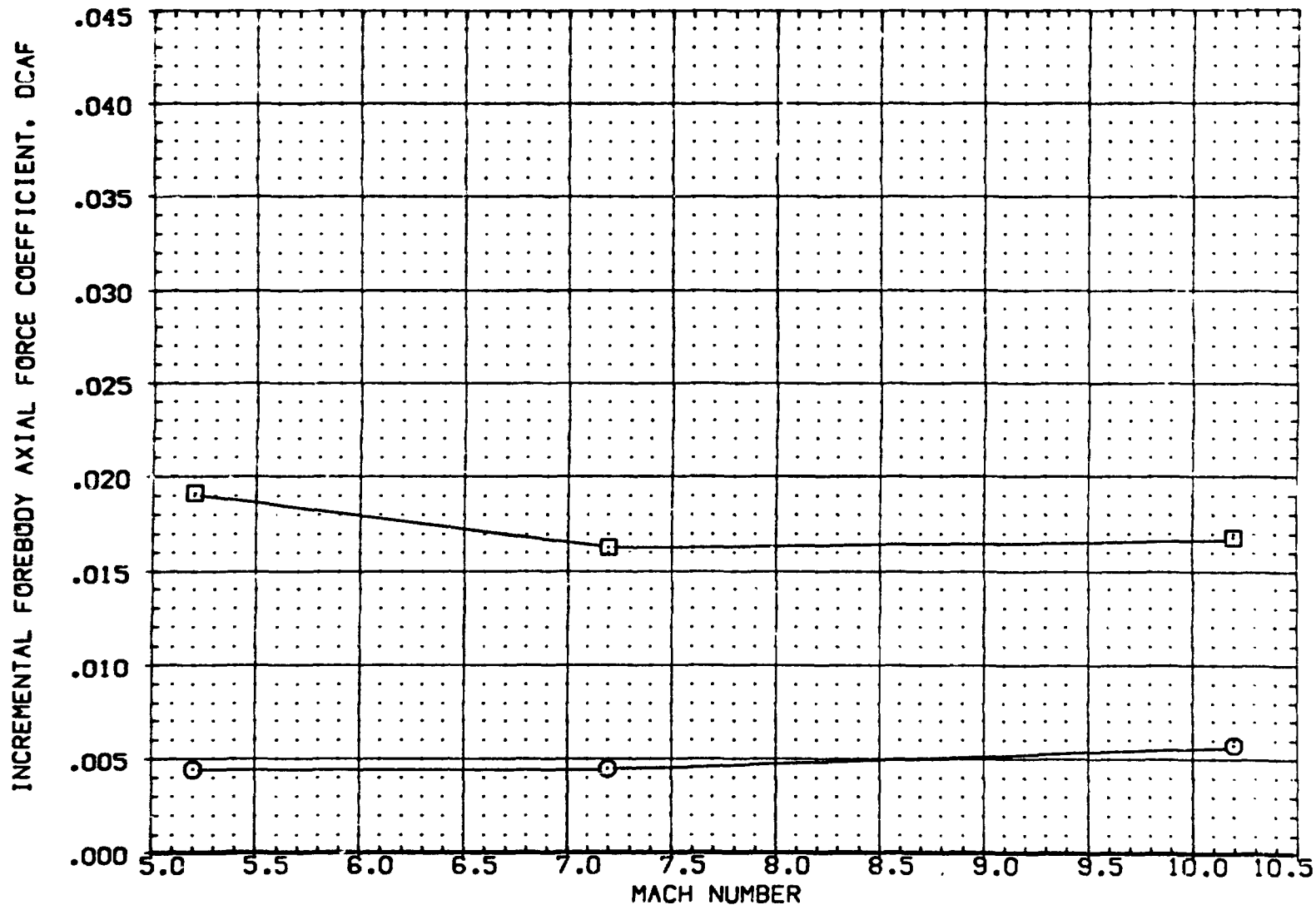


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(L86005)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

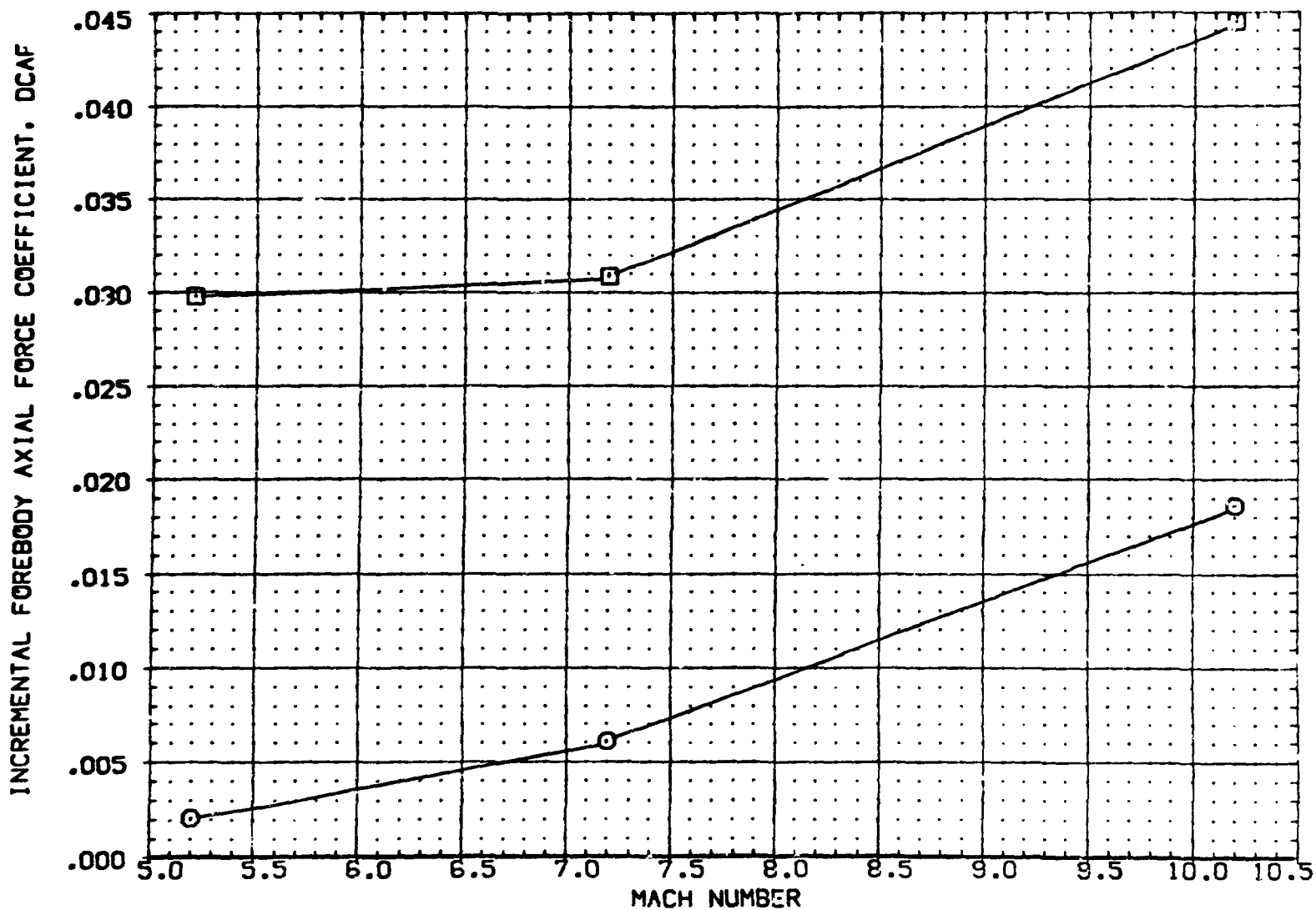


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

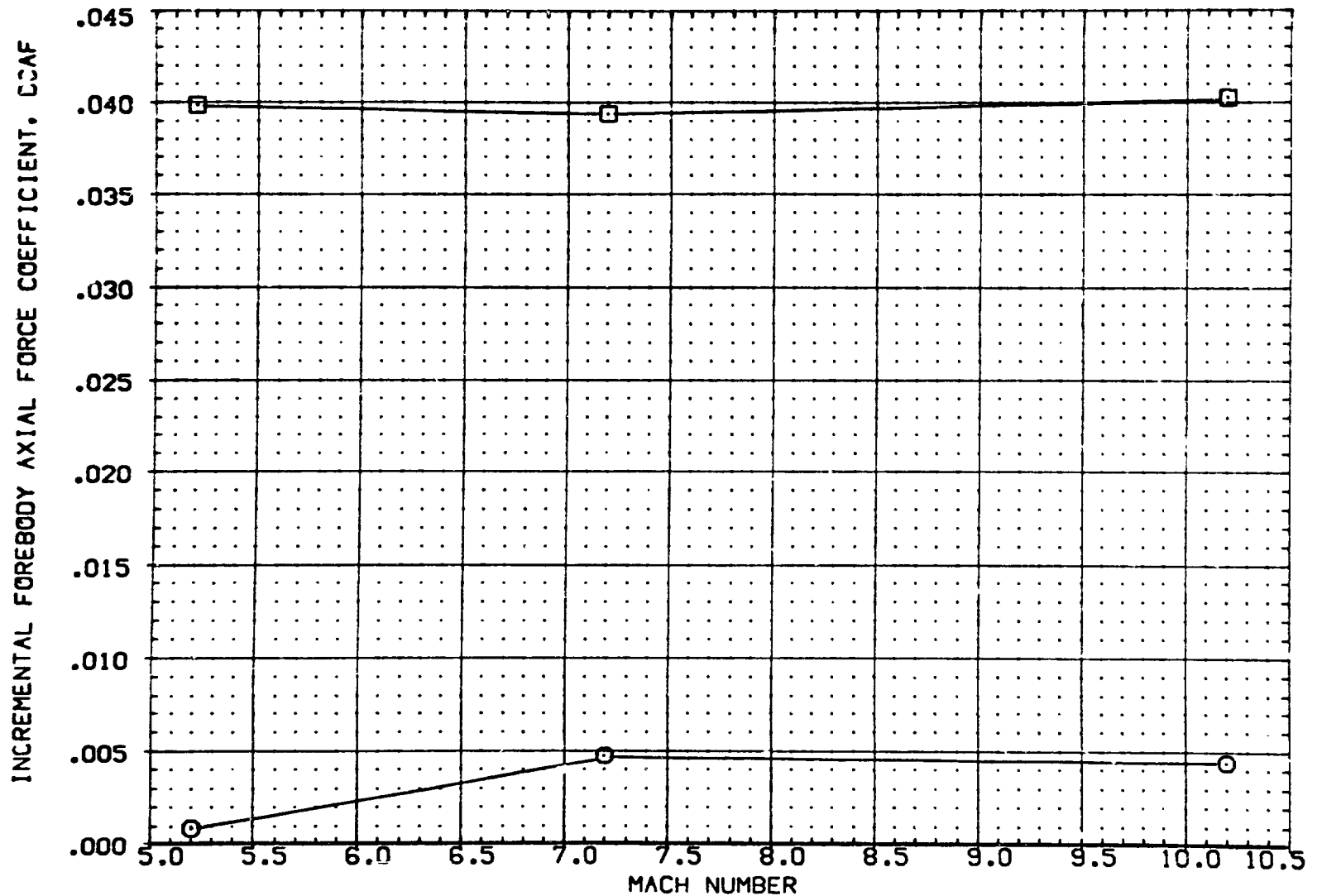


FIG. 4 ELEVON EFFECTS
(D) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(LB6003)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R3 V7 V107	-10.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(LB6005)	○ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

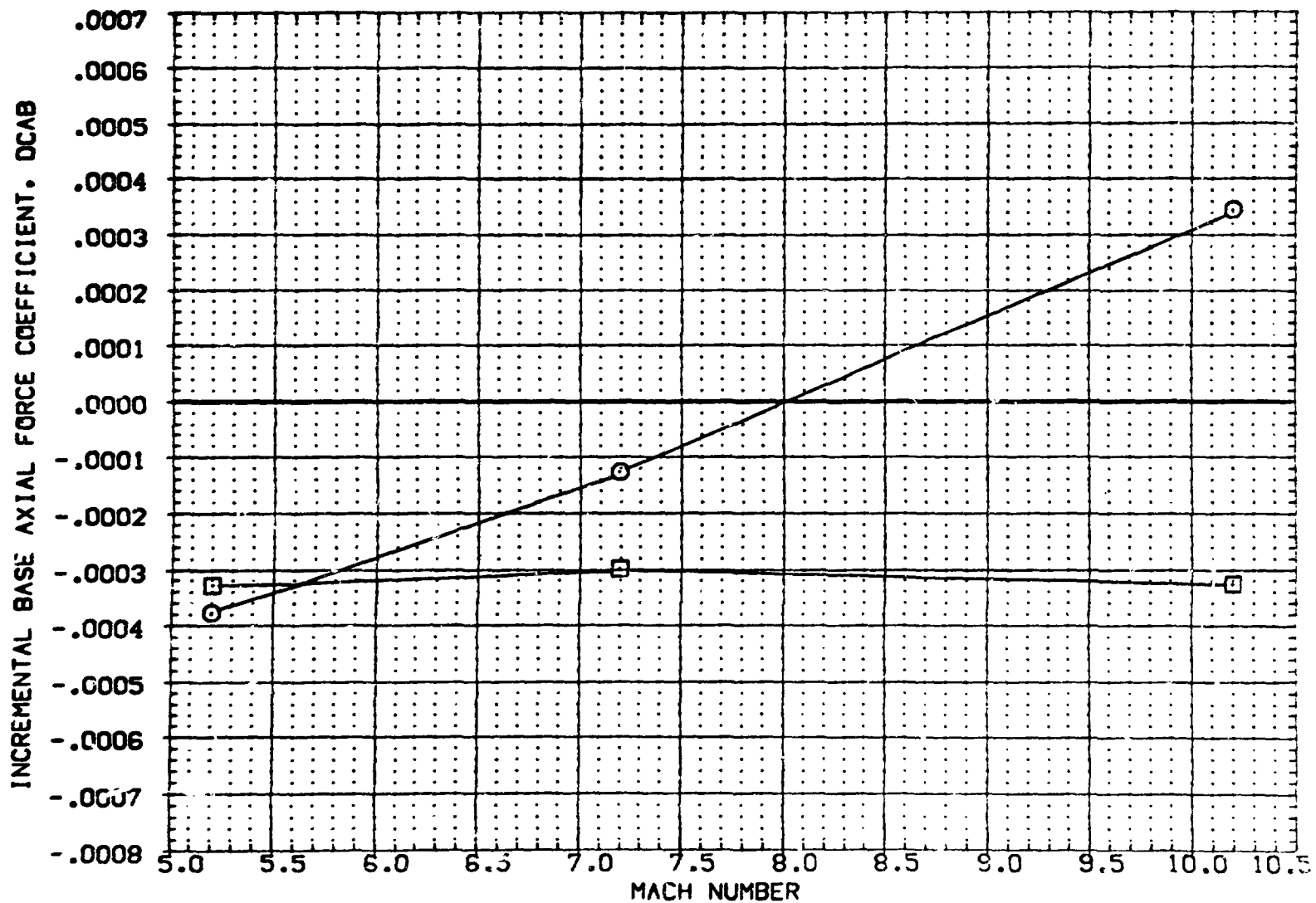


FIG. 4 ELEVON EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	□ APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(UB6005)	□ APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.00	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

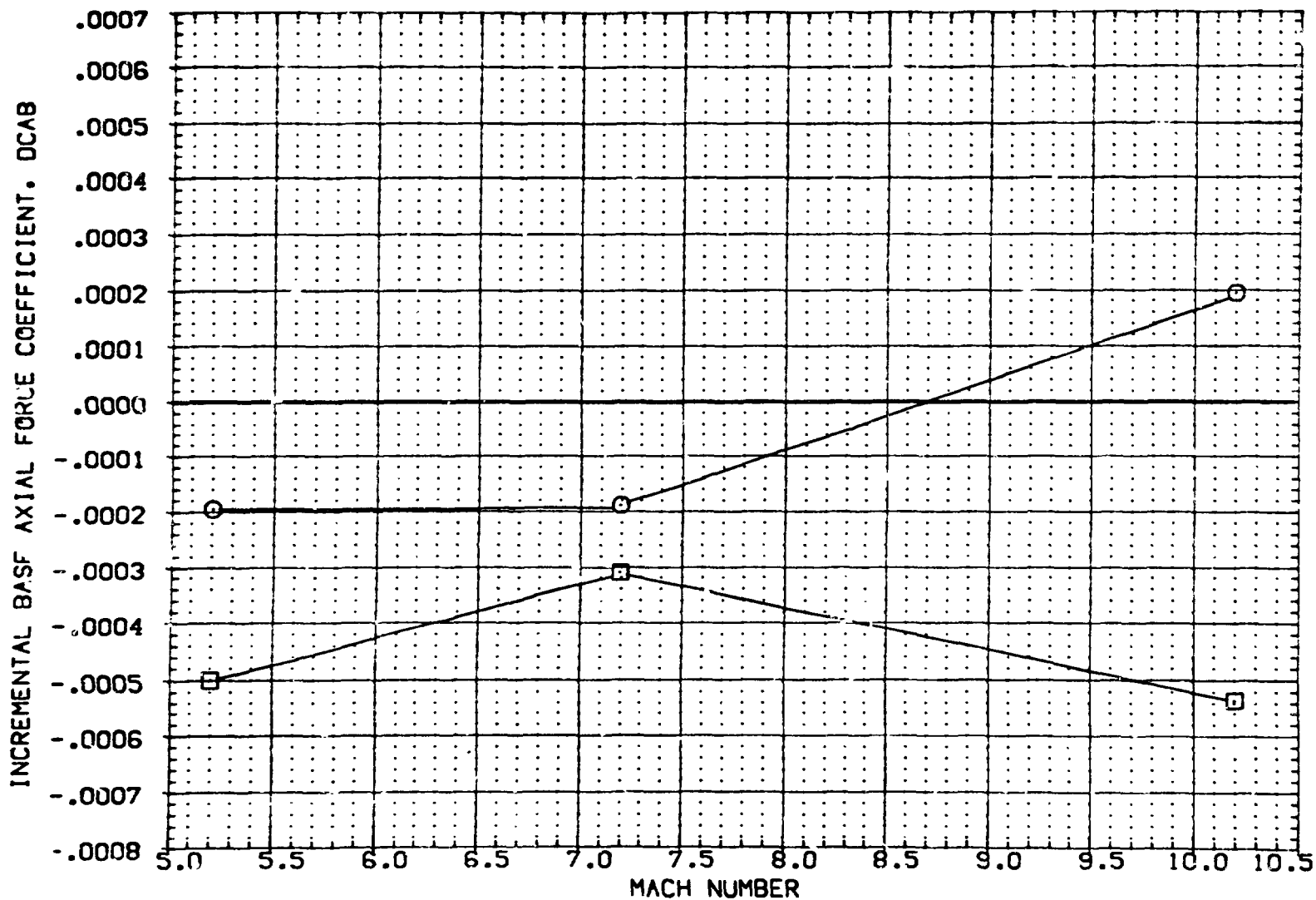


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	APES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	APES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 471.8000 IN.
						BREF 936.6800 IN.
						AMRP 1075.4800 IN.
						YMFP .0000 IN.
						ZMFP 400.0000 IN.
						SCALE .0150 SCALE

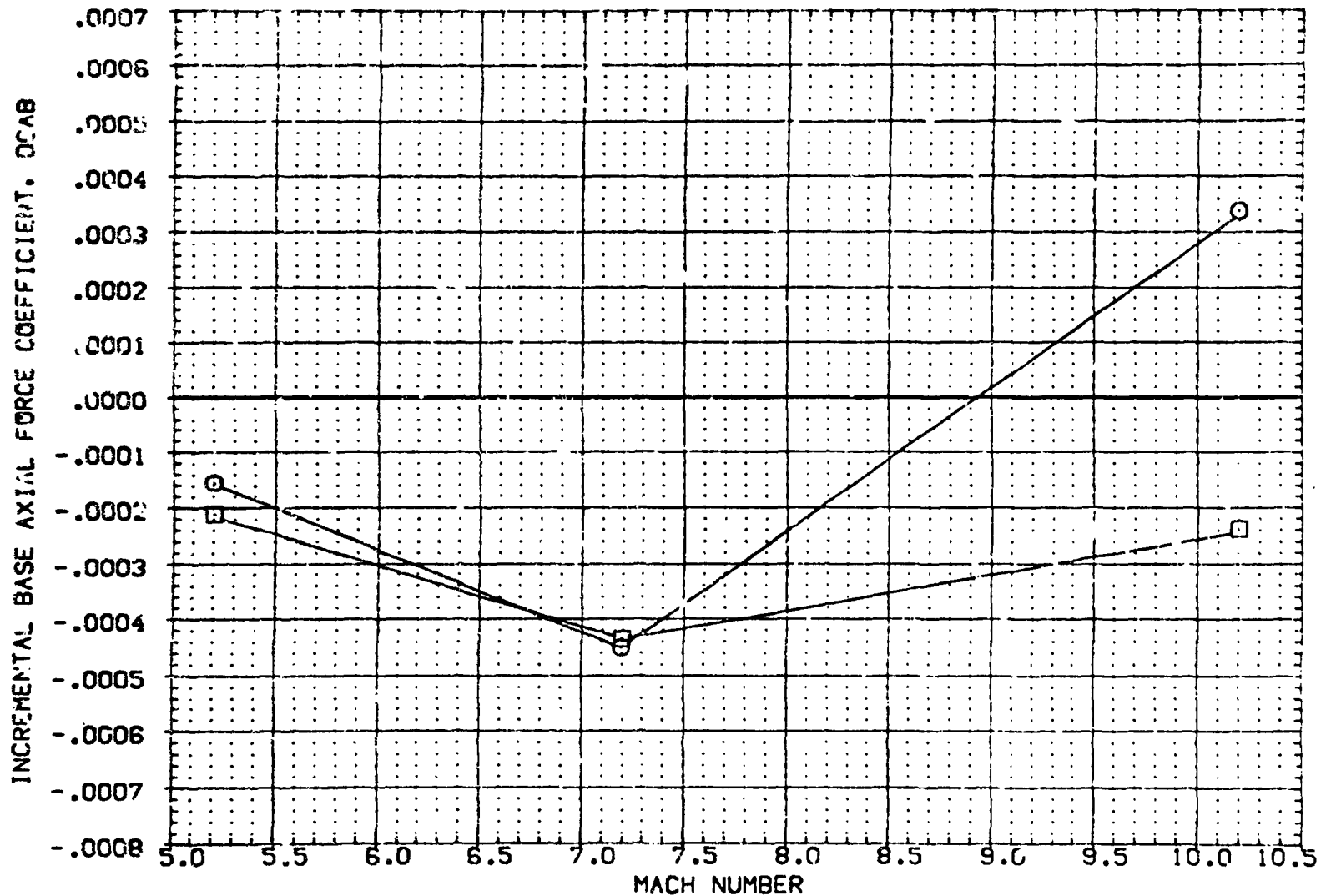


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4870 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

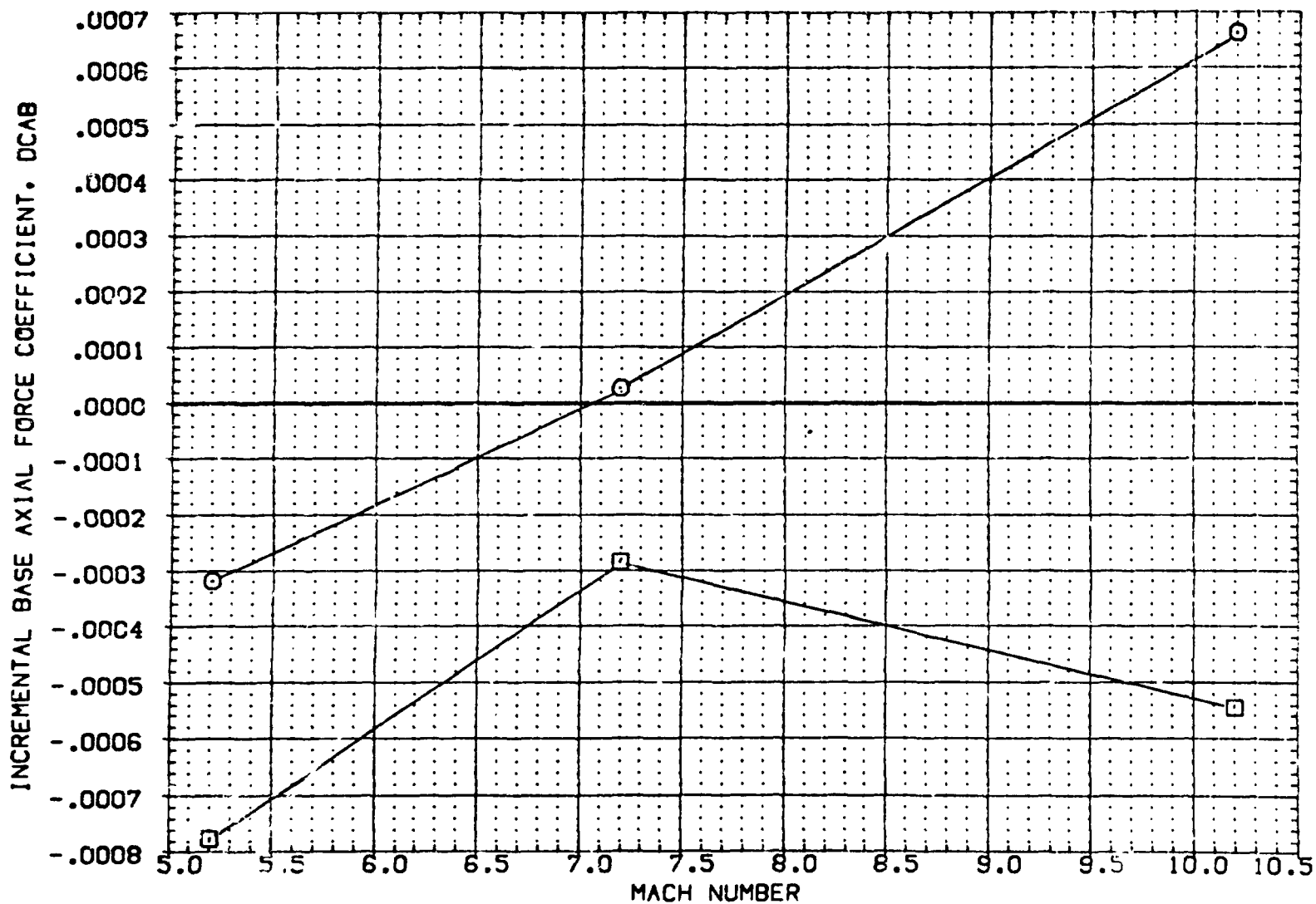
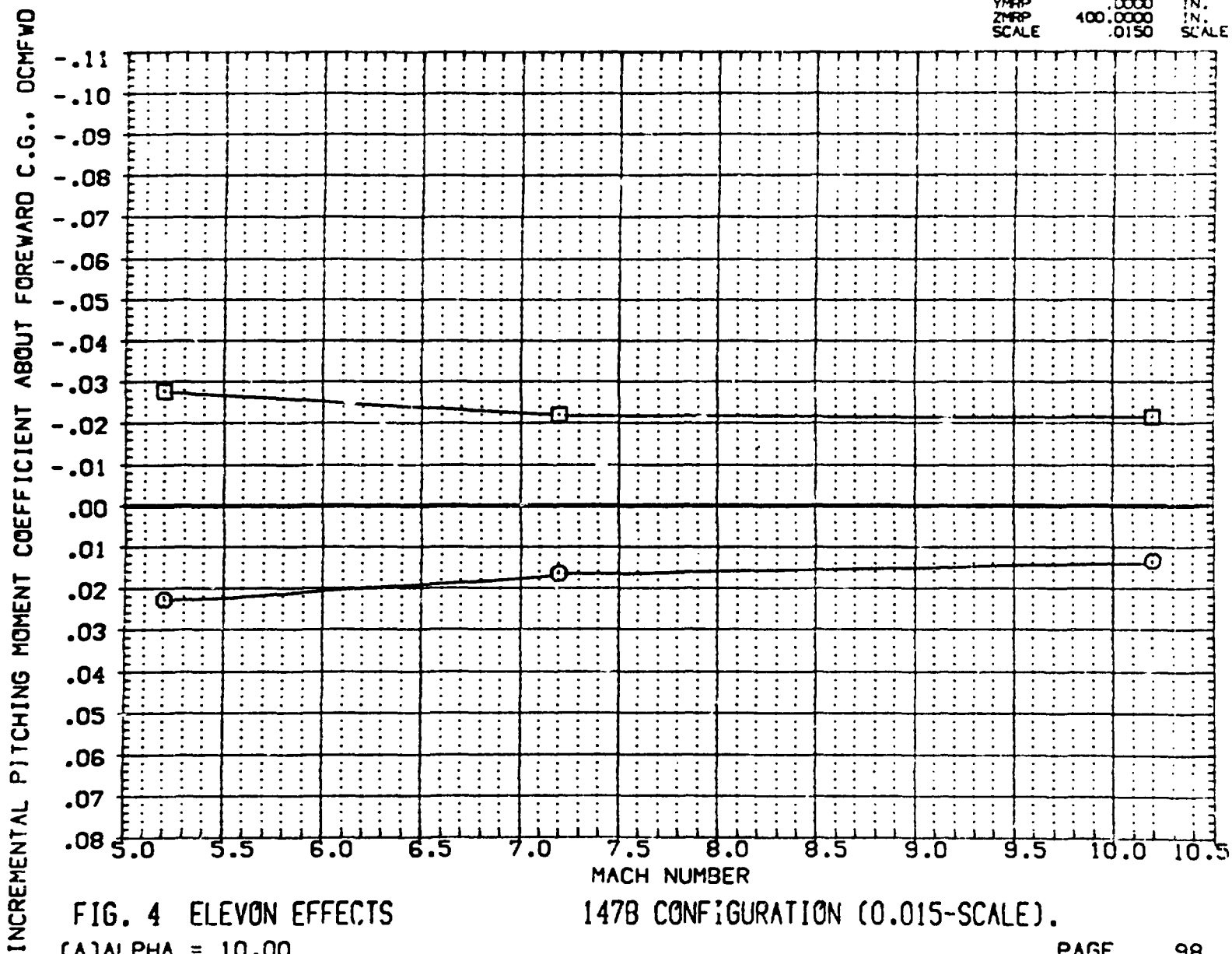


FIG. 4 ELEVON EFFECTS
(D) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	15.000	55.000	.000	LREF 474.8000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4900 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

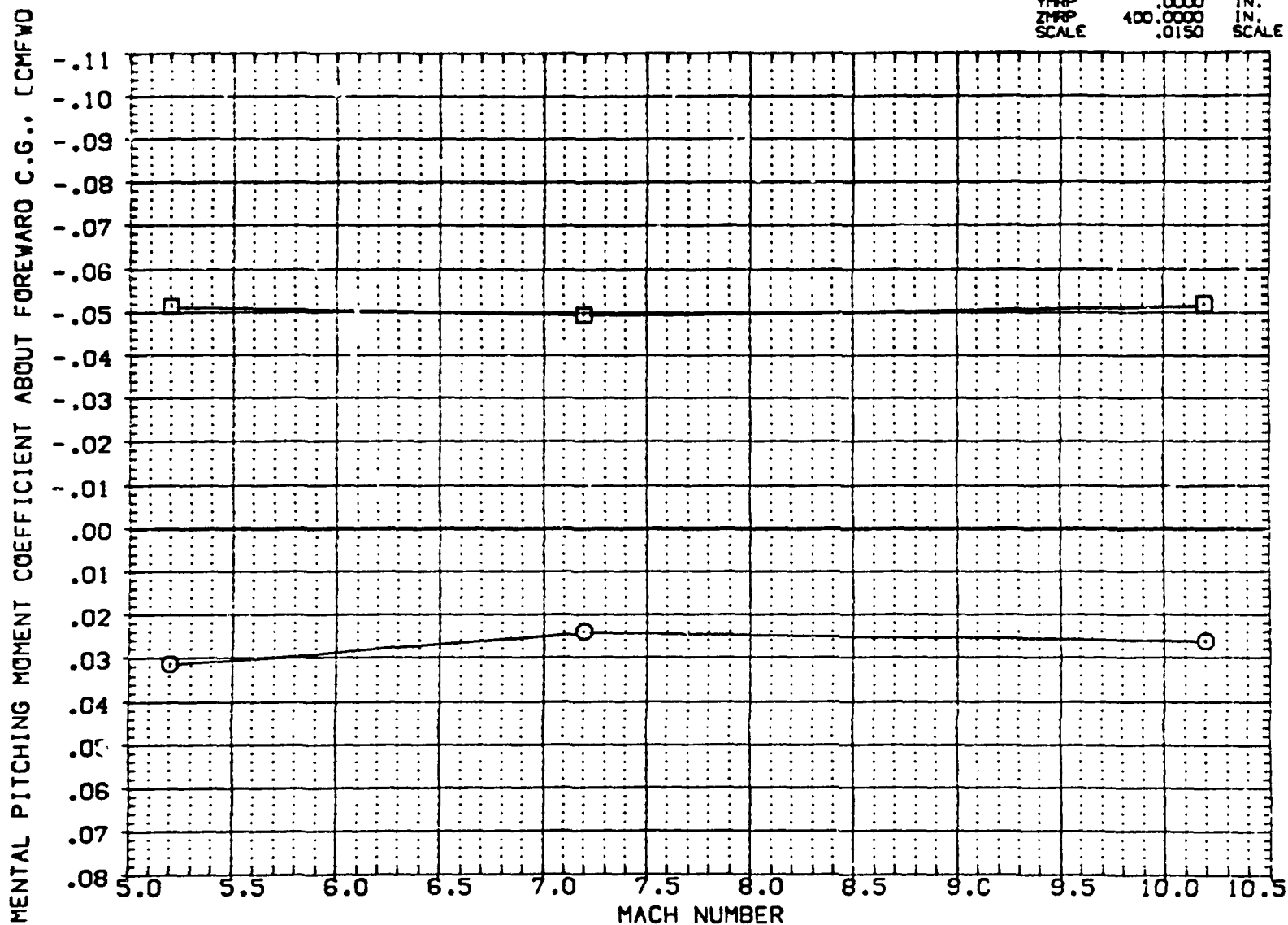
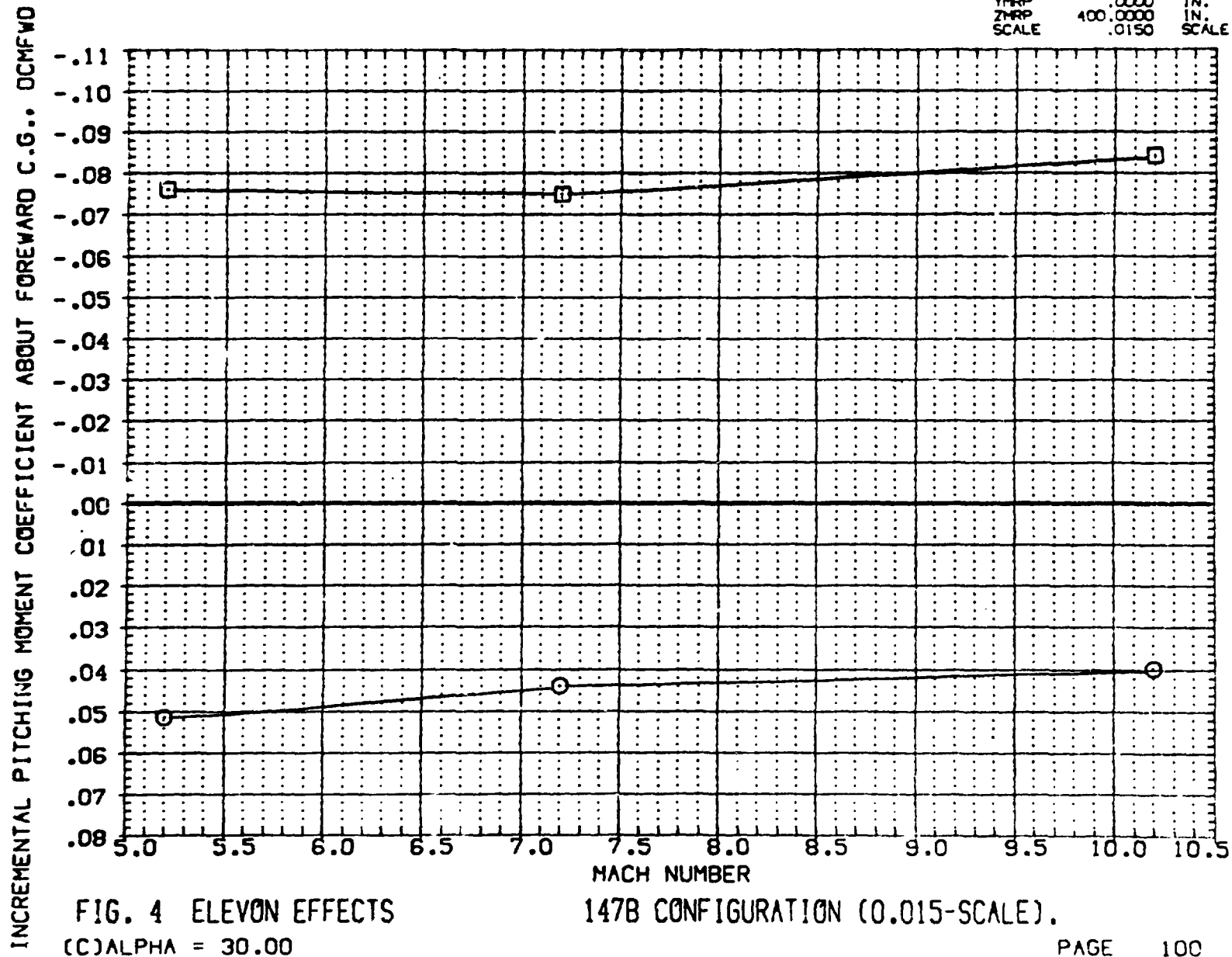


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	APES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(UB6005)	APES3.5-168 OA23 B22 C7 E23 F3 H4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 174.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(UB6005)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	15.000	-14.250	55.000	.000	

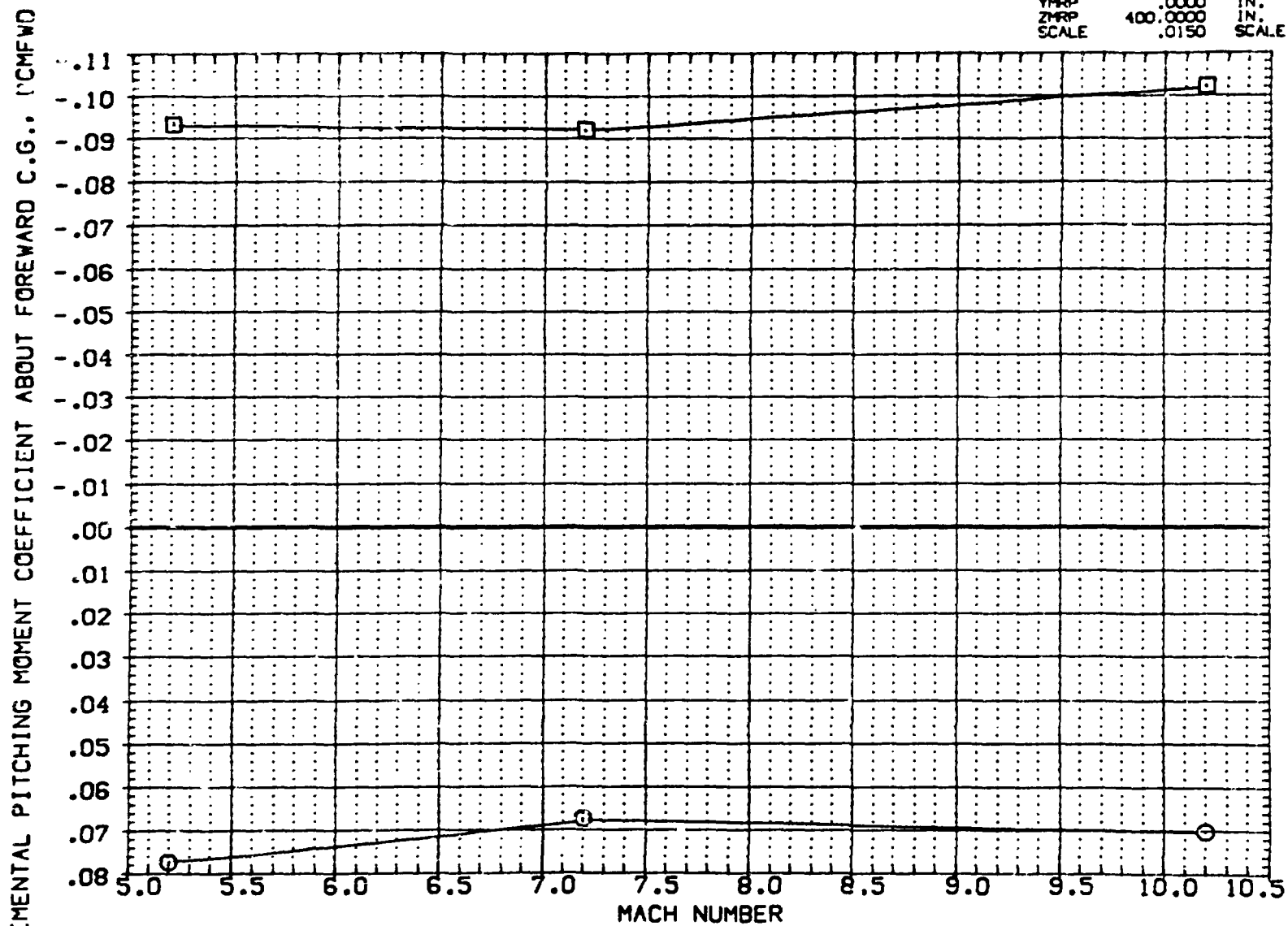


FIG. 4 ELEVON EFFECTS
(D) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	EDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(UB6003)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6005)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.0000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

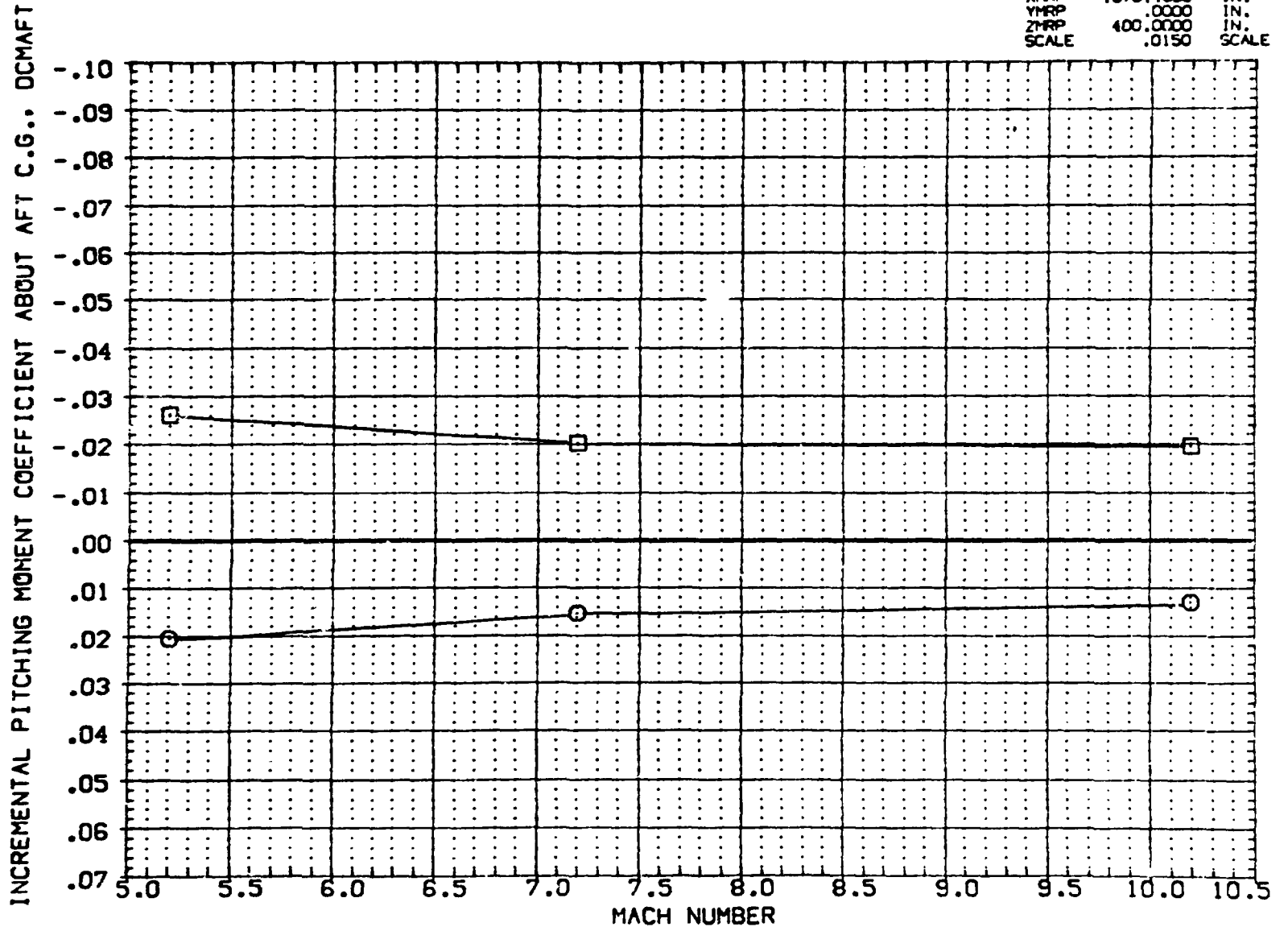


FIG. 4 ELEVON EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6003)	□ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6005)	□ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

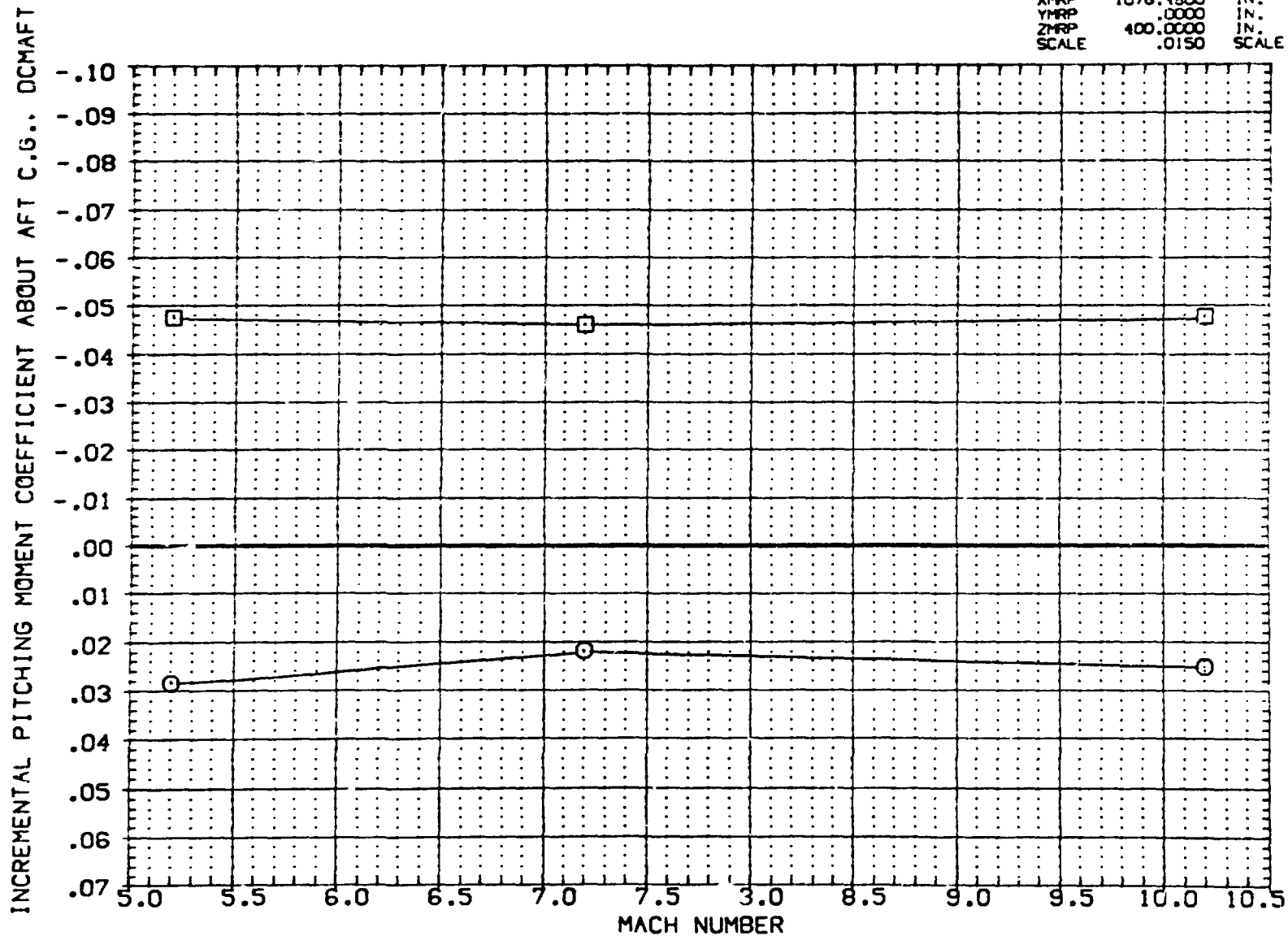


FIG. 4 ELEVON EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86005)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

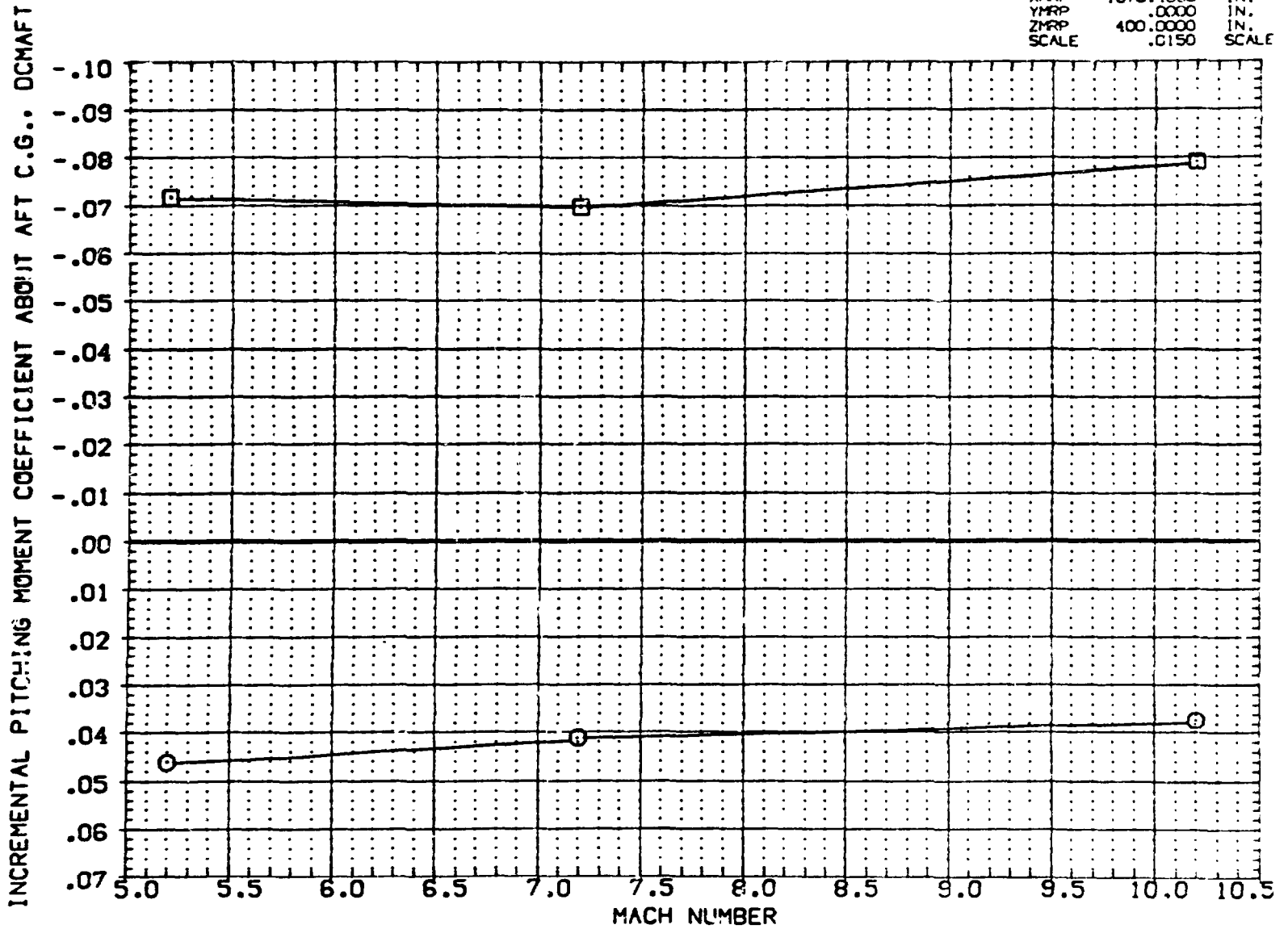


FIG. 4 ELEVON EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6003)	○ AMES3.5-168 0A2J B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(UB6005)	□ AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 V107	15.000	-14.250	55.000	.000	

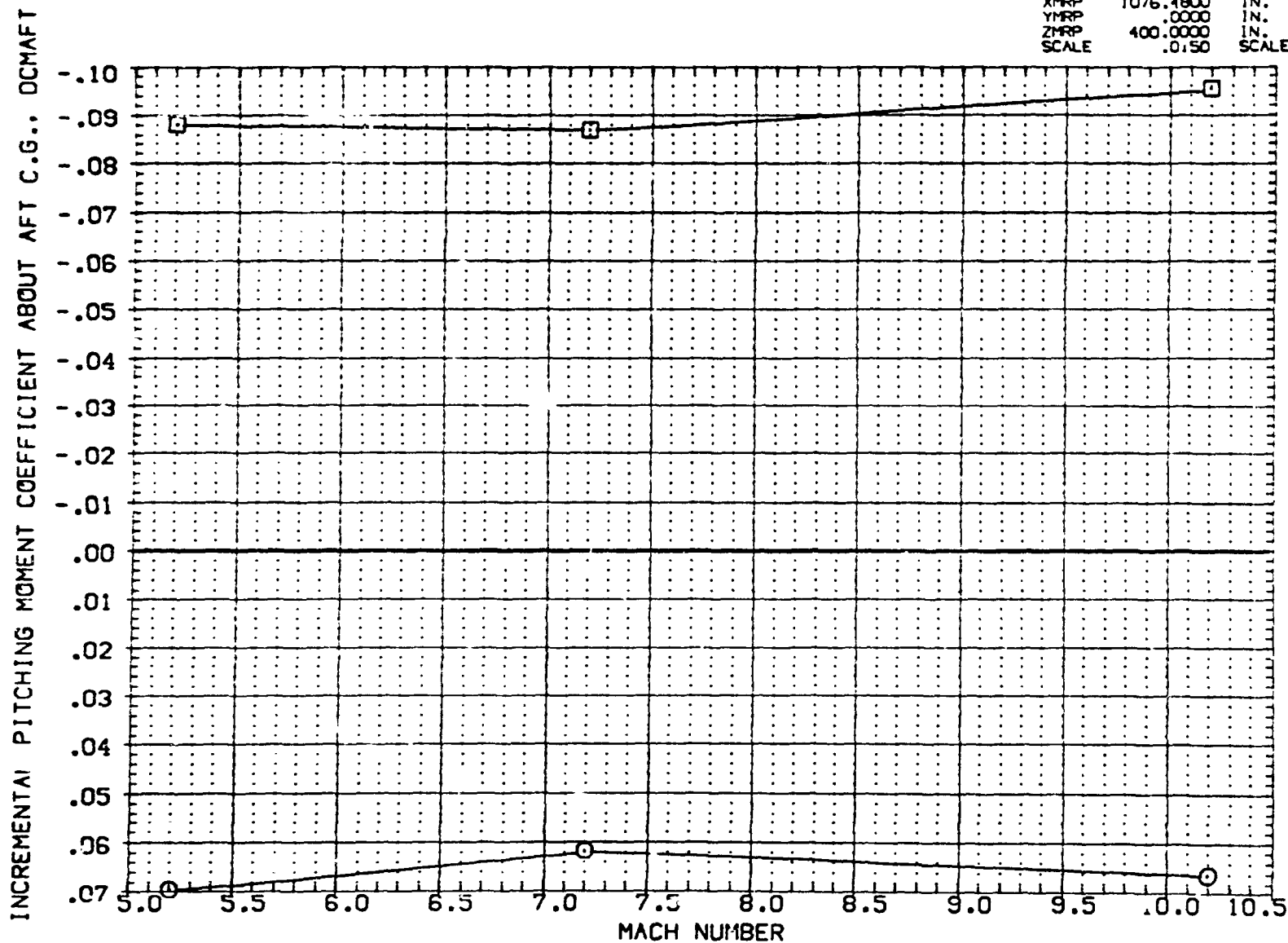


FIG. 4 ELEVON EFFECTS
(○) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DE	DATA SOURCE	DE	REFERENCE INFORMATION	SO. FT.
○	10.000	20.000	5.200	.000	UB6003	-10.000	UB6004	-20.000	SREF	2690.0000
□	20.000	AILRON	.000	BDFLAP	-14.250	UB6003	-10.000	UB6004	LREF	474.8000
◇	30.000	SPOBRK	55.000	RUDDER	.000	086001	.000	UB6005	BREF	932.6300
△	40.000								XMRP	1075.4800
									YMRP	.0000
									ZMRP	400.0000
									SCALE	.0150
										IN.
										IN.
										IN.
										SCALE

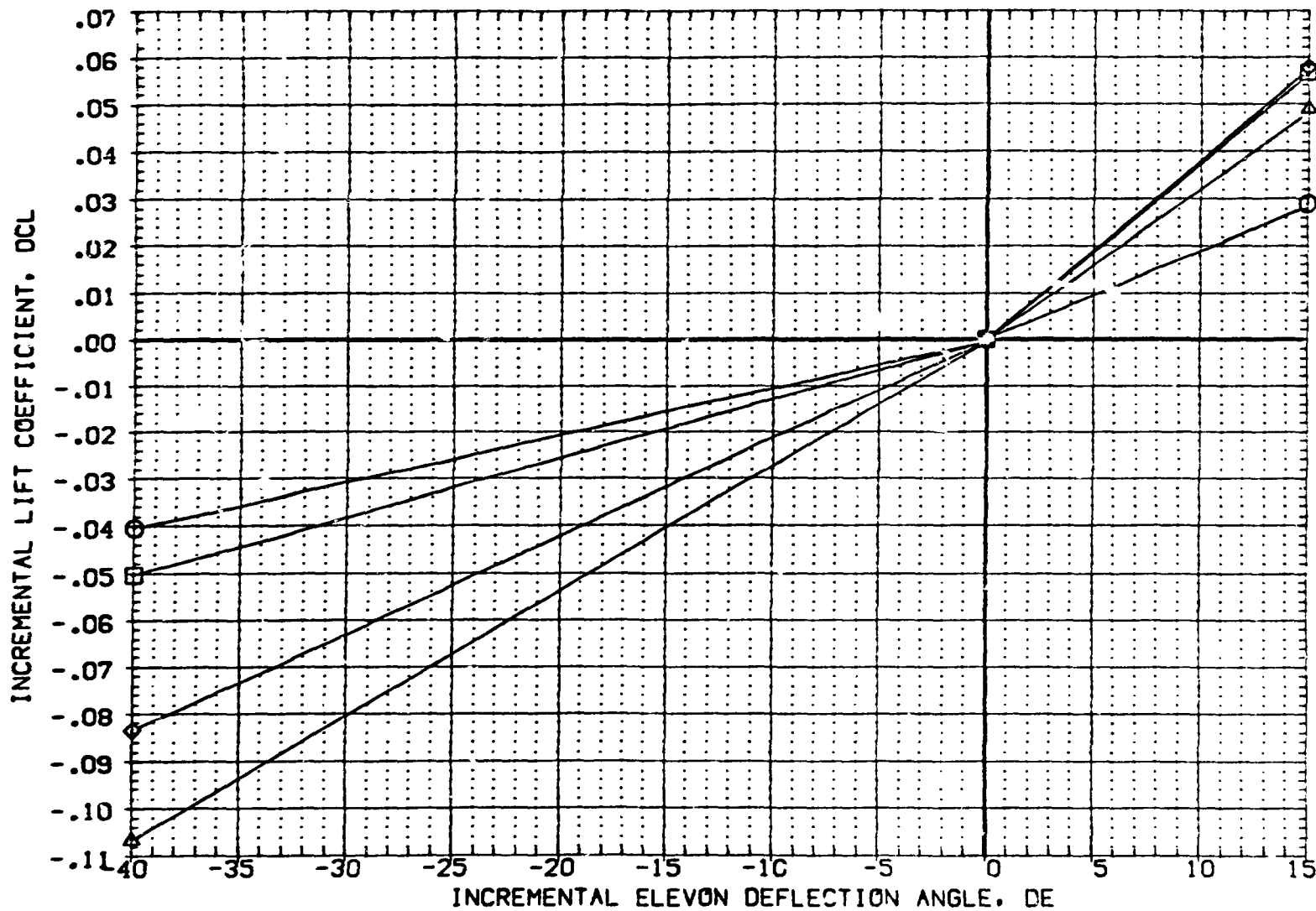


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DE	DATA SOURCE	DE	DATA SOURCE	DE	REFERENCE INFORMATION	SO.FT.
○	10.000		7.200	.000	UB6003	-40.000	UB6004	-20.000	SREF	2690.0000	IN.
□	20.000	A1LRON	.000	-14.250	UB6003	.000	UB6005	15.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	.000	UB6003				BREF	936.6900	IN.
△	40.000								XMRP	1076.4800	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

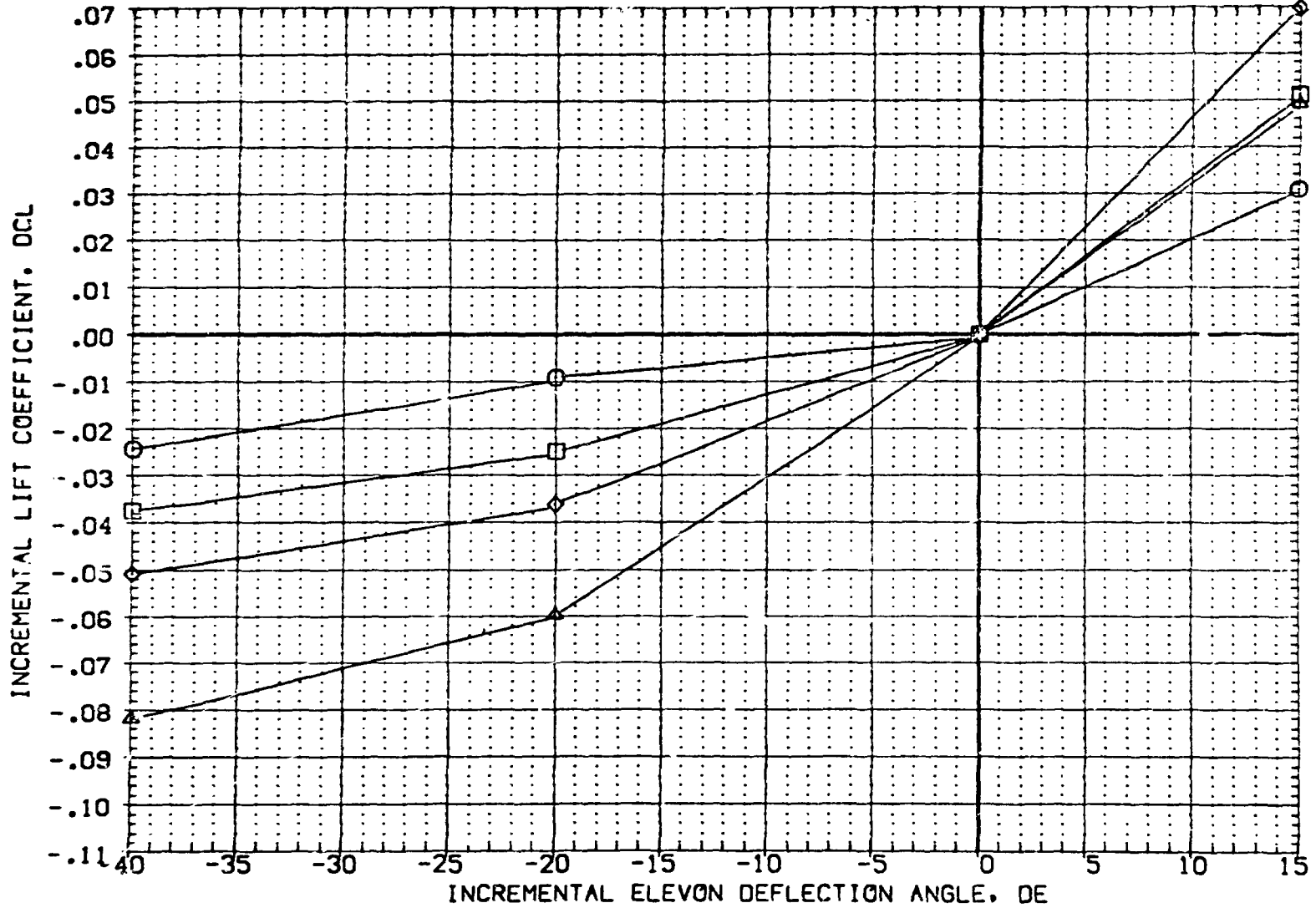


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	10.000	MACH	IC.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ.FT.
○	20.000	AIRON	.000	BOFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
□	30.000	SPOBPK	55.000	RUDDER	.000	086001	.000	UB6005	15.000	BREF	936.6800	IN.
◇	40.000									XMRP	1076.4800	IN.
△										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

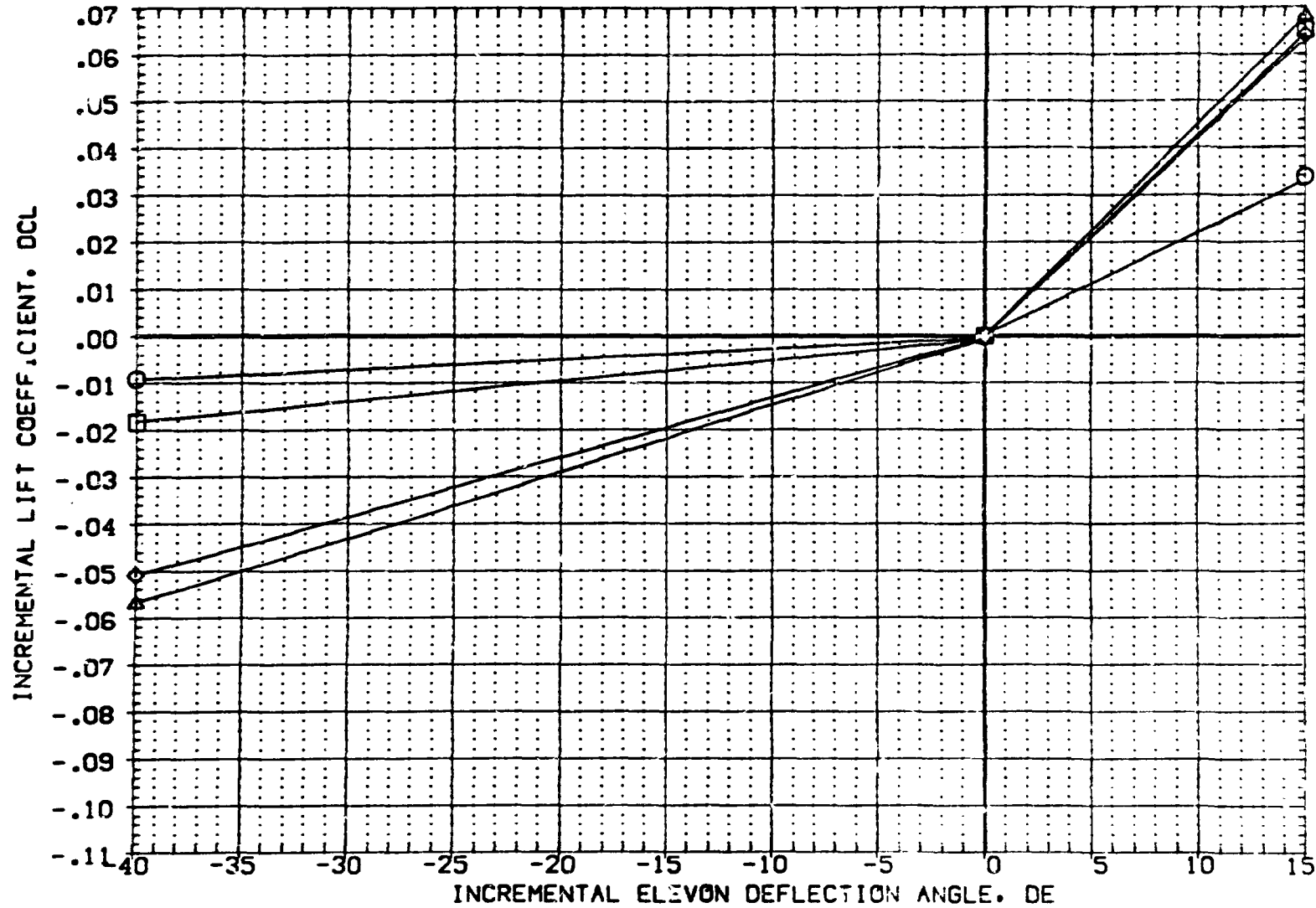


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	5.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	50. FT.
□	20.000	MILPON	.000	BOFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
◇	30.000	SPOURK	55.000	FLOOR	.000	086001	.000	UB6005	15.000	BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

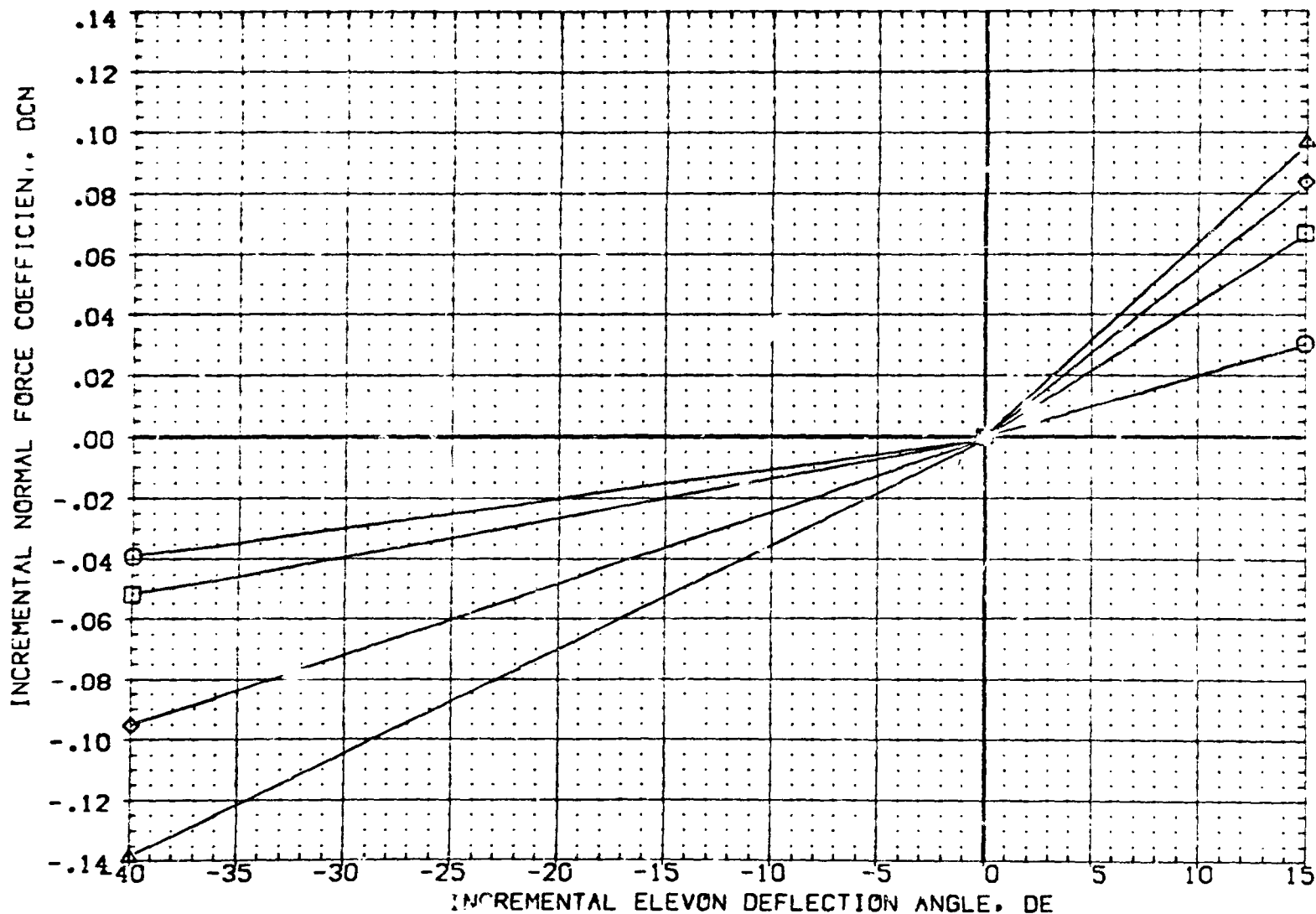


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
○	10.000		7.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	50. FT.
□	20.000	AILRON	.000	BDFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	DB6001	.000	UB6005	15.000	BREF	936.6000	IN.
△	40.000									XMRP	1076.4000	IN.
										YMRP	1000.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

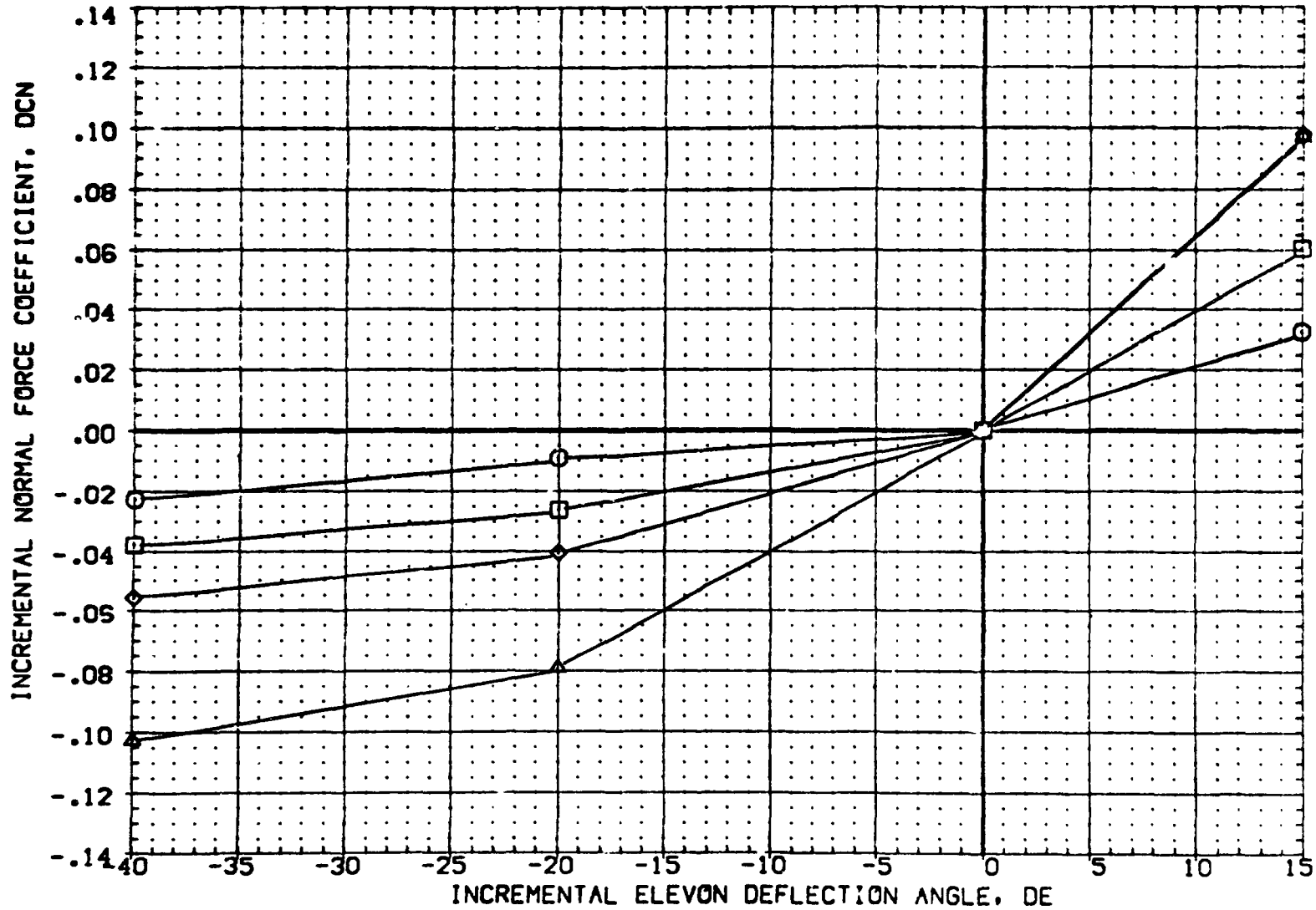


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DE	DATA SOURCE	DE	DATA SOURCE	DE	REFERENCE INFORMATION
○	10.000		10.200	.000	UB6003					SREF 2690.0000 SQ.FT.
□	20.000	A1LRON	.000	-14.250	UB6003					LREF 474.8000 IN.
◇	30.000	SPOBRK	55.000	.000	UB6001					BREF 936.6600 IN.
△	40.000									XMRP 1076.4800 IN.
										YMRP .0000 IN.
										ZMRP 400.0000 IN.
										SCALE .0150 SCALE

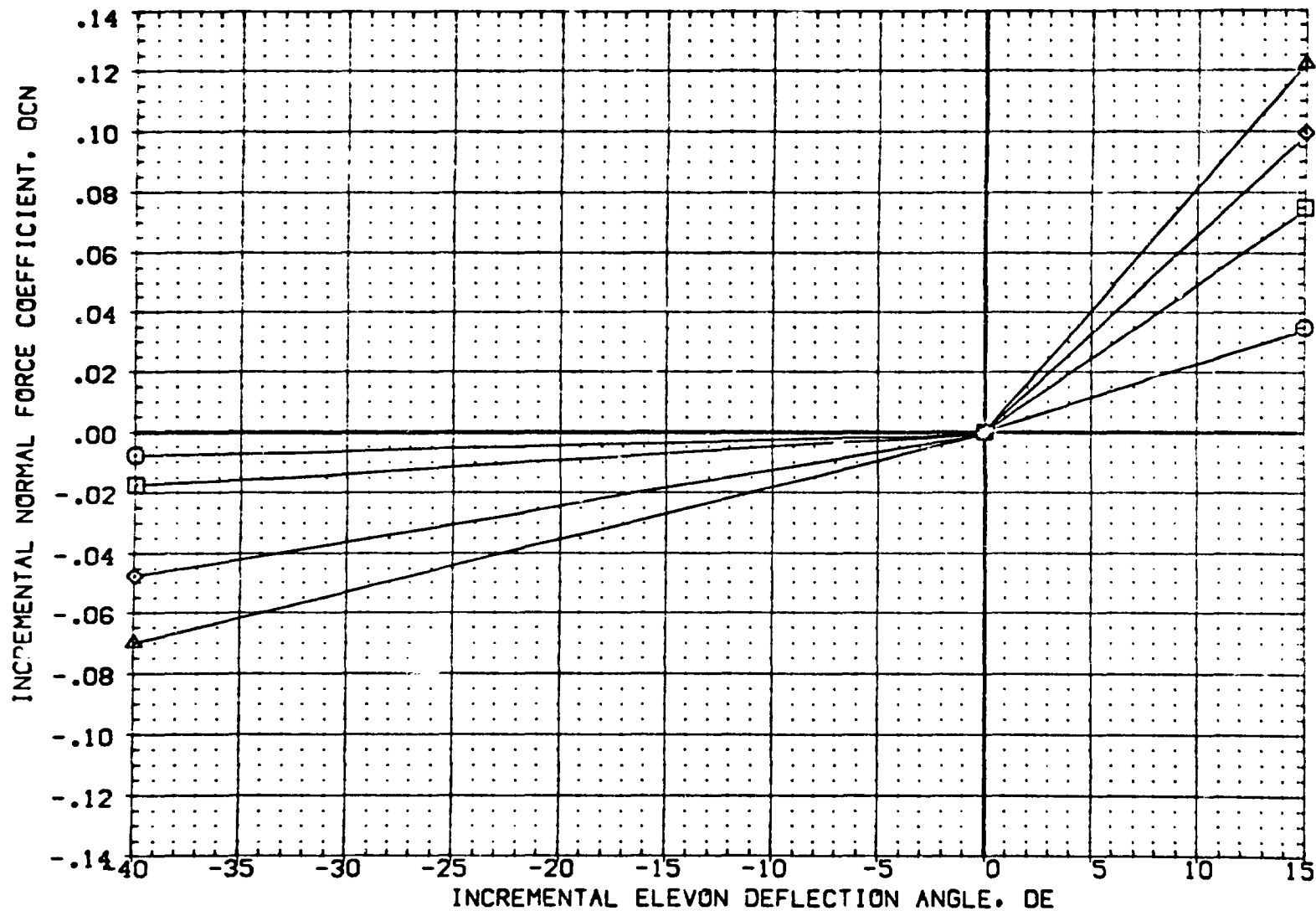


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
			BETA	BOFLAP	RUDER	DATASET	DE	DATASET	DE	SREF	IN.	SCALE
○	10.000		5.200	.000	.000	UB6003	-40.000	UB6004	-20.000	2690.0000	474.8000	SQ.FT.
□	20.000	A1LRON	.000	-14.250	.000	UB6003	.000	UB6005	15.000	936.6900	1076.4800	IN.
◇	30.000	SPOBRK	55.000	.000	.000	UB6001	.000			.0000	400.0000	IN.
△	40.000									.0150		SCALE

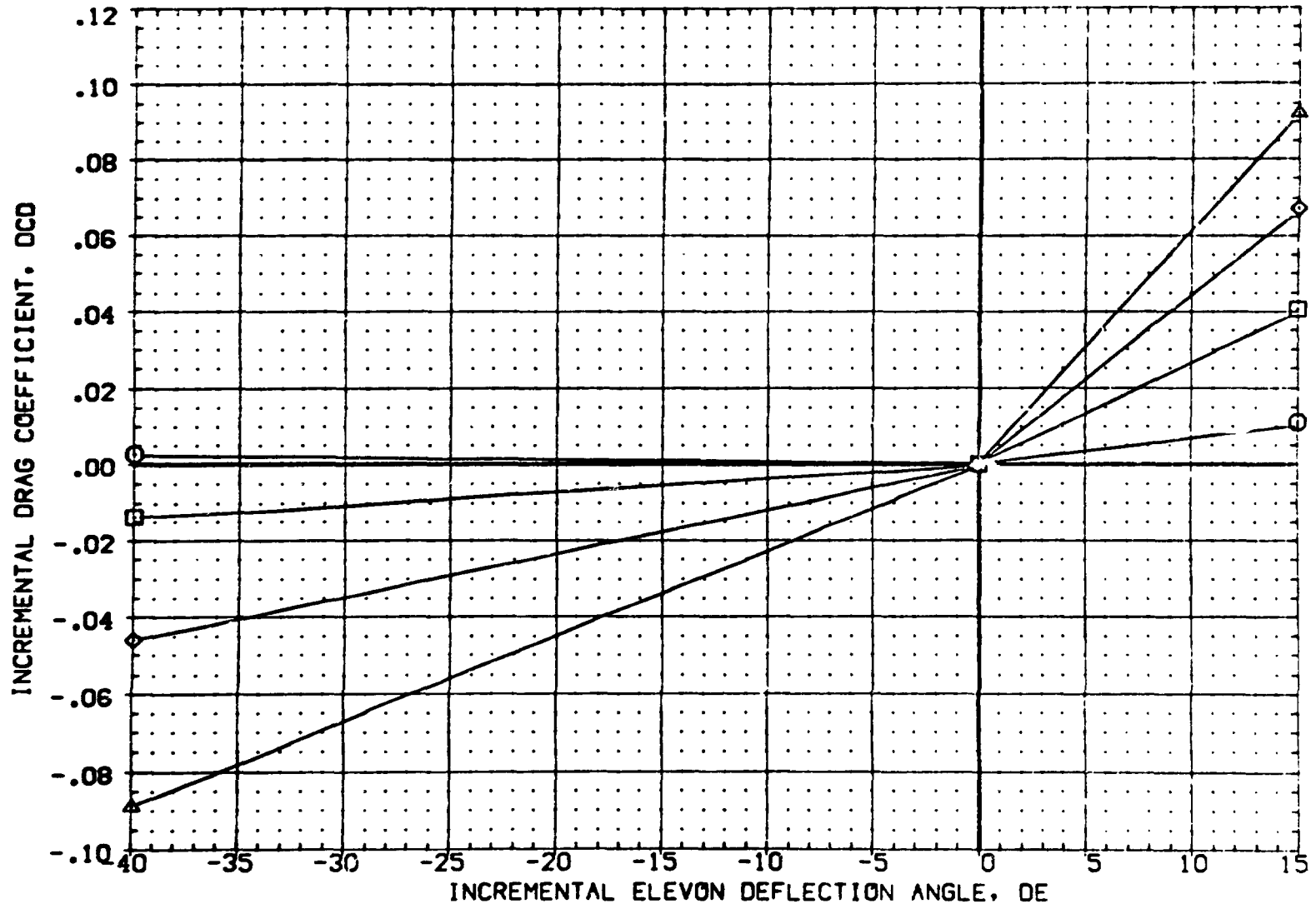


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).



AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	10.000	7.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	SQ. FT.
□	20.000	.000	BOFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	L. REF	474.8000	IN.
◇	30.000	55.000	RUDDER	.000	DB6001	.000	UB6005	15.000	BREF	936.6800	IN.
△	40.000								XMRP	1076.4000	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

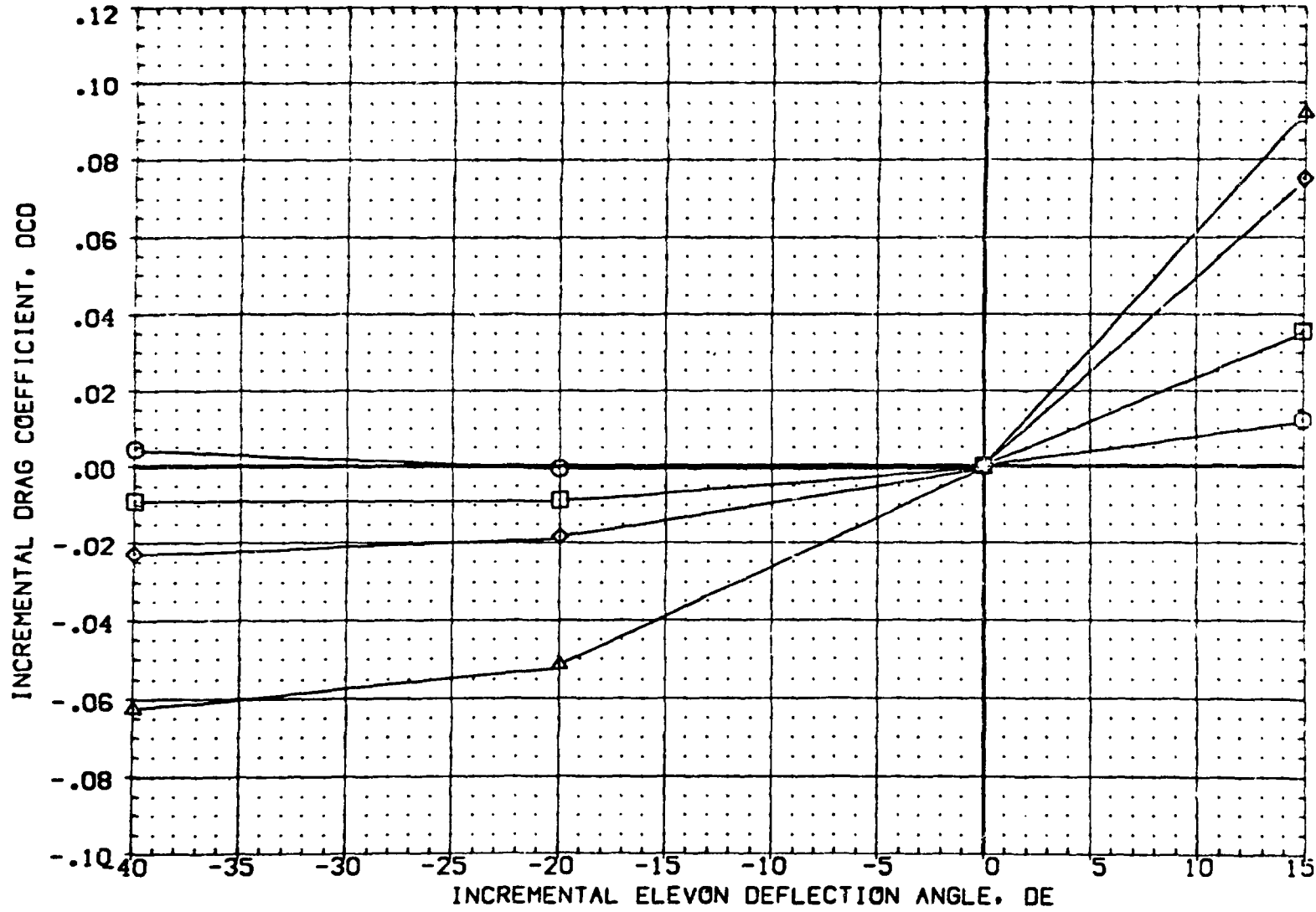


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DE	DATA SOURCE	DE	REFERENCE INFORMATION	SCALE
○	10.000		10.200	.000	UB6003	-40.000	UB6004	-20.000	SREF 2690.0000	SQ.FT.
□	20.000	A1LRON	.000	BDFLAP -14.250	UB6003	.000	UB6005	15.000	LREF 474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER .000	QB6001	.000			BREF 936.8000	IN.
△	40.000								XMRP 1076.4000	IN.
									YMRP .0000	IN.
									ZMRP 400.0000	IN.
									SCALE .0150	SCALE

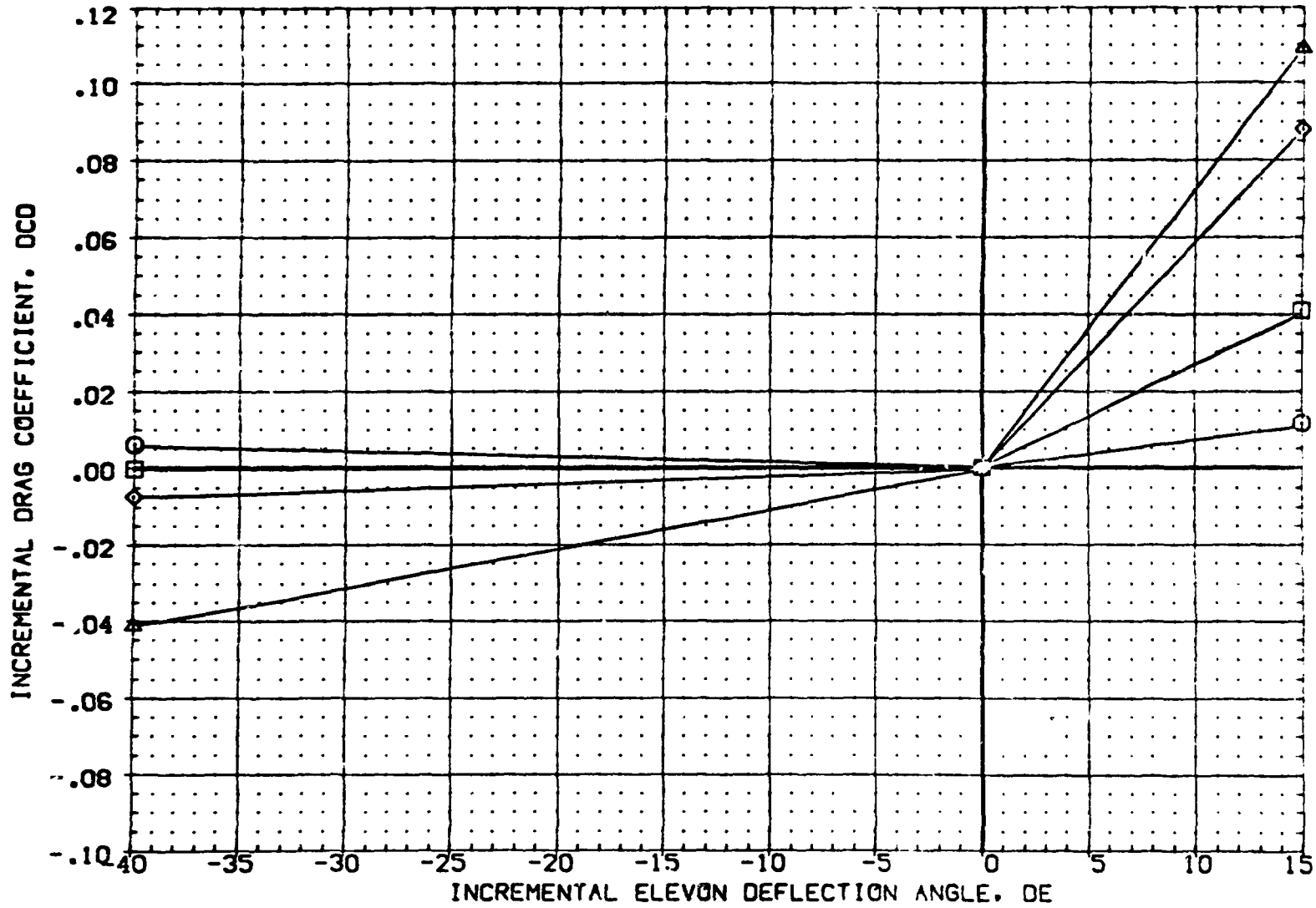


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	10.000	MACH	5.200	BETA	.000	DATASET	DE	DATASET	DE	SREF	2690.0000	50. FT.
□	20.000	AILRON	.000	BOFLAP	-14.250	UB6003	-40.000	UB6004	-20.000	LREF	474.800 J	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	086001	.000	UB6005	15.000	BREF	936.680 I	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

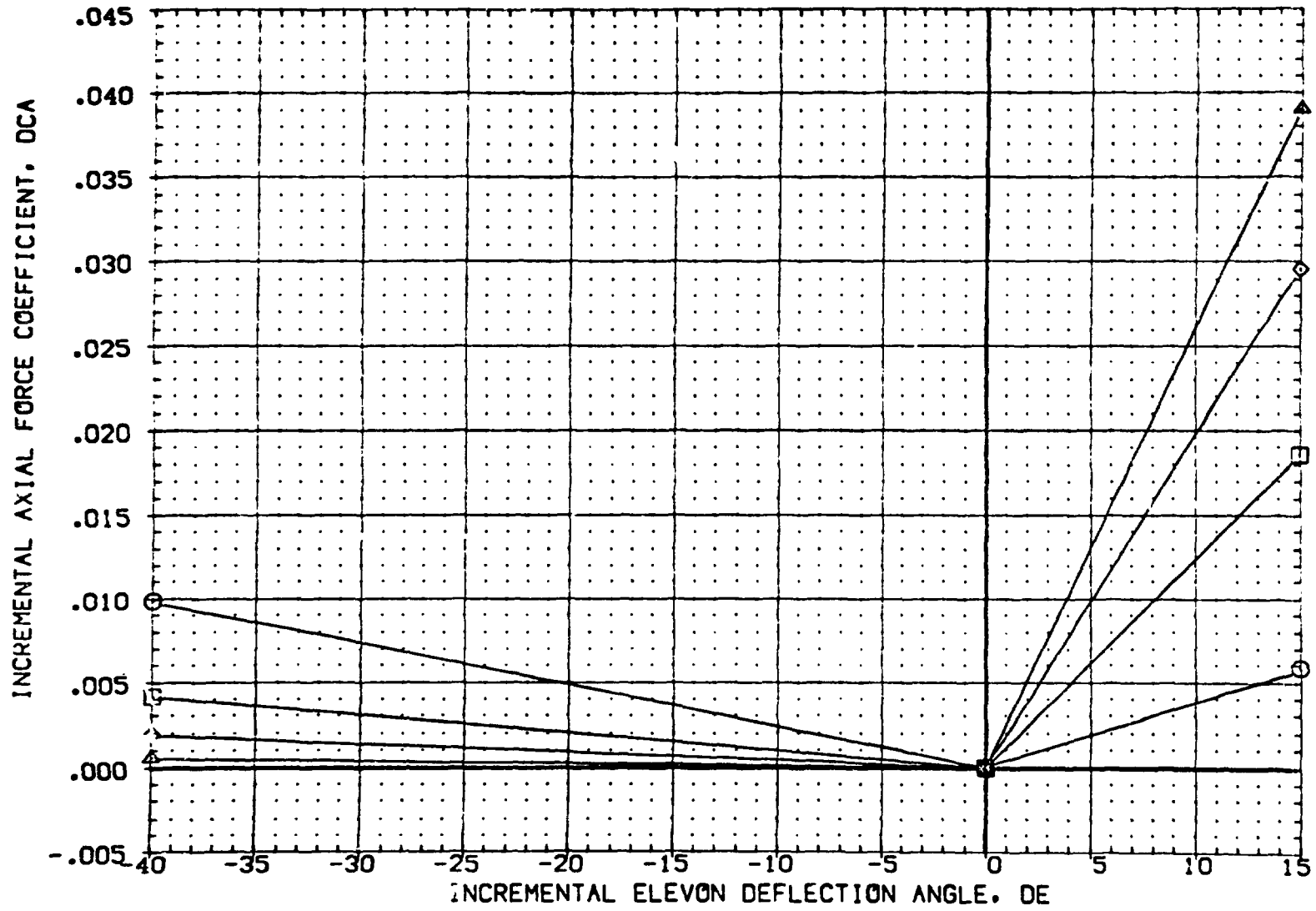


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	BFLAP	UB6003	UB6004	UB6005	SREF	SO.FT.	
○	10.000	7.200	.000	-14.250	UB6003	UB6004	UB6005	2690.0000	IN.	
□	20.000	55.000	.000	.000	UB6003	UB6004	UB6005	474.8000	IN.	
◇	30.000	7.200	.000	.000	UB6003	UB6004	UB6005	936.6800	IN.	
△	40.000	55.000	.000	.000	UB6003	UB6004	UB6005	1076.1800	IN.	
								YMRP	IN.	
								ZMRP	IN.	
								SCALE	SCALE	

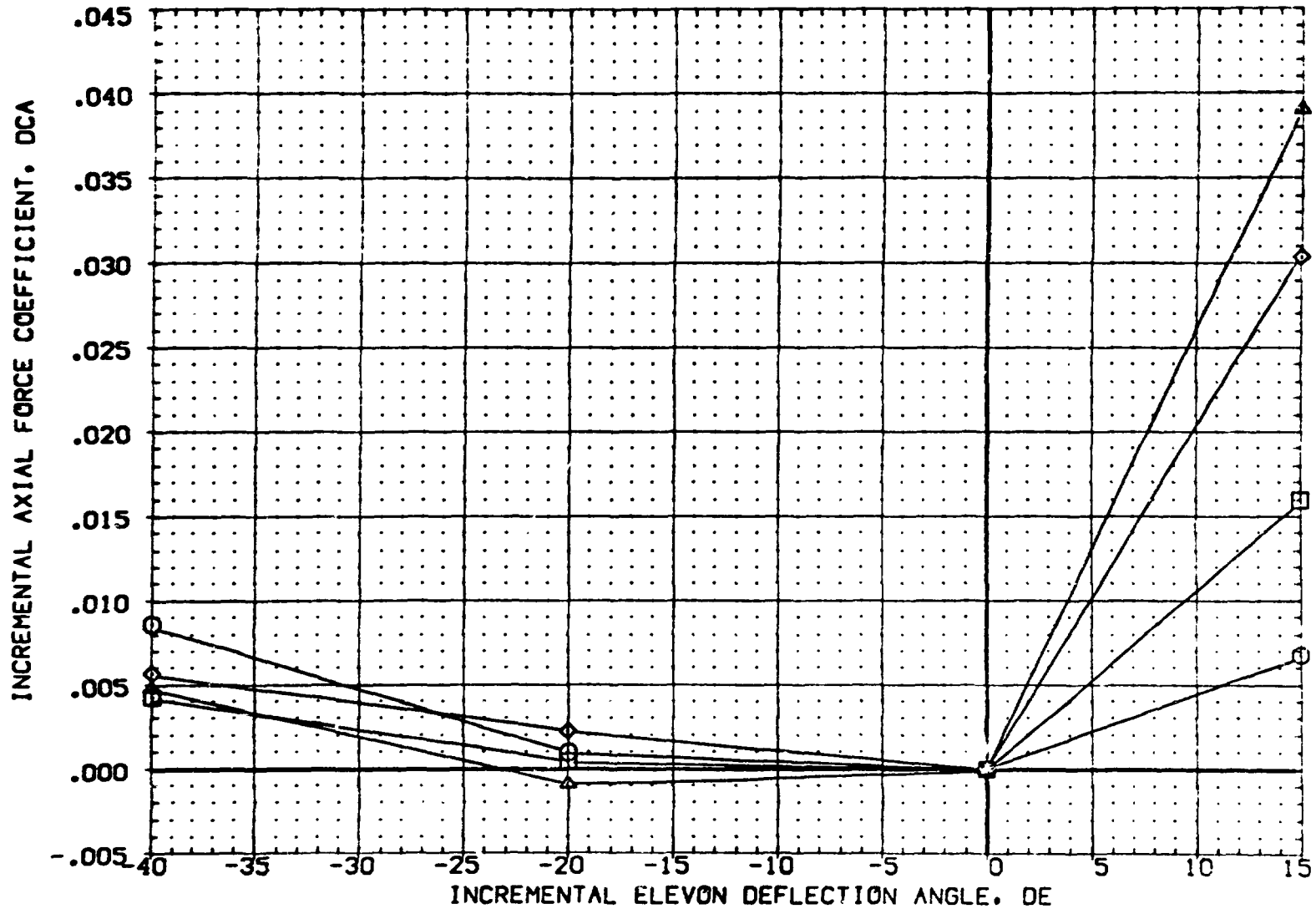


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATASET	DE	DATASET	DE	SREF	SO.FT.
○	10.000	10.200	BETA	.000	UB6003	-40.000	UB6004	-20.000	2690.0000	IN.
□	20.000	.000	BDFLAP	-14.250	UB6001	.000	UB6005	15.000	474.8000	IN.
◇	30.000	55.000	RUDDER	.000					936.6800	IN.
△	40.000								1076.4800	IN.
									YMRP	.0000
									ZMRP	100.0000
									SCALE	.0150

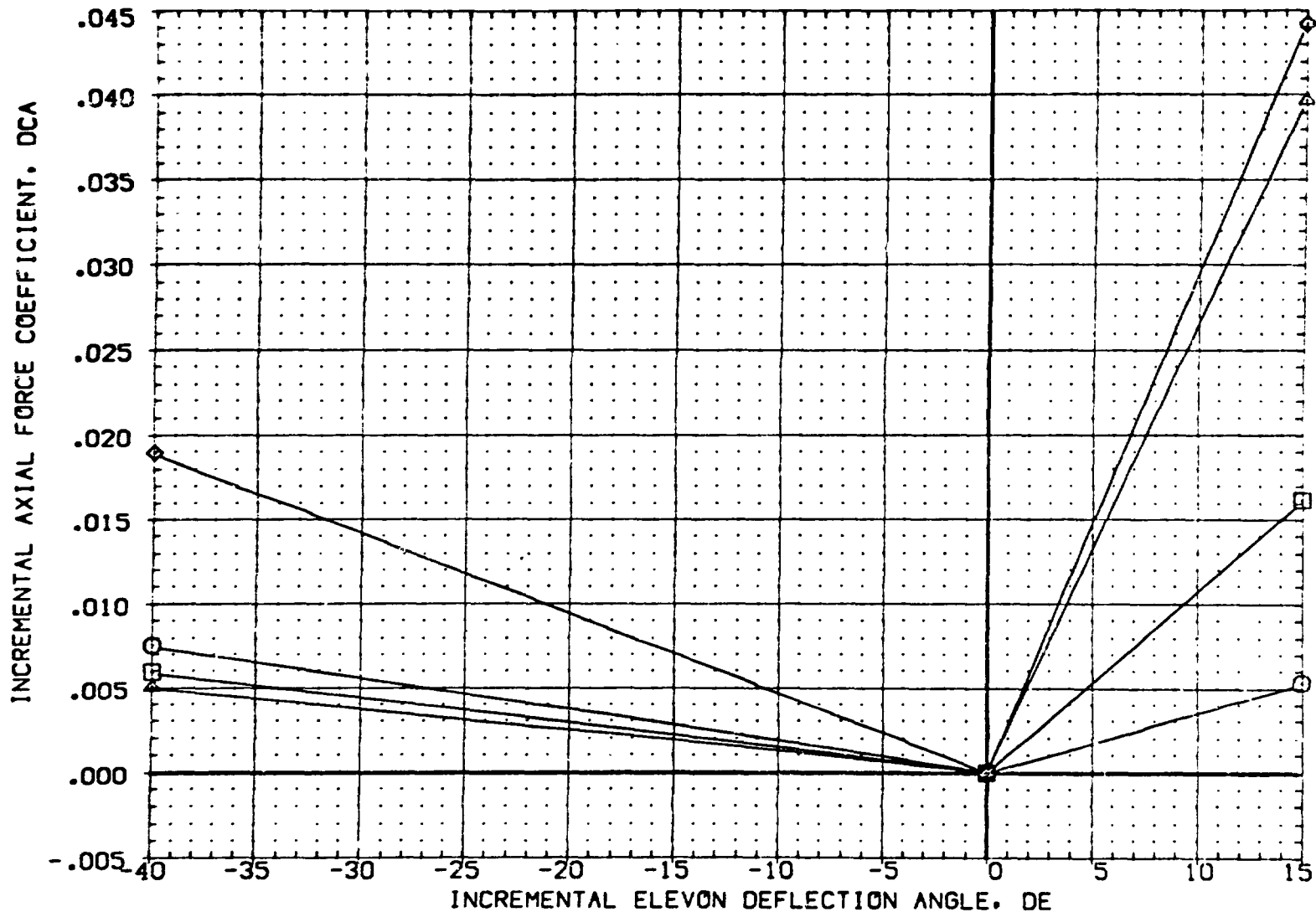


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATASET	DE	DATASET	DE	SREF	2690.0000	SG.FT.
○	10.000	A1LR0N	5.200	.000	UB6003	-40.000	UB6004	-20.000	LREF	474.8000	IN.
□	20.000	SPOBRK	.000	-14.250	086001	.000	UB6005	15.000	BREF	936.6800	IN.
◇	30.000		55.000	.000				XMRP	1076.4800	IN.	
△	40.000							YMRP	.0000	IN.	
								ZMRP	400.0000	IN.	
								SCALE	.0150	SCALE	

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G.: DCMFWD

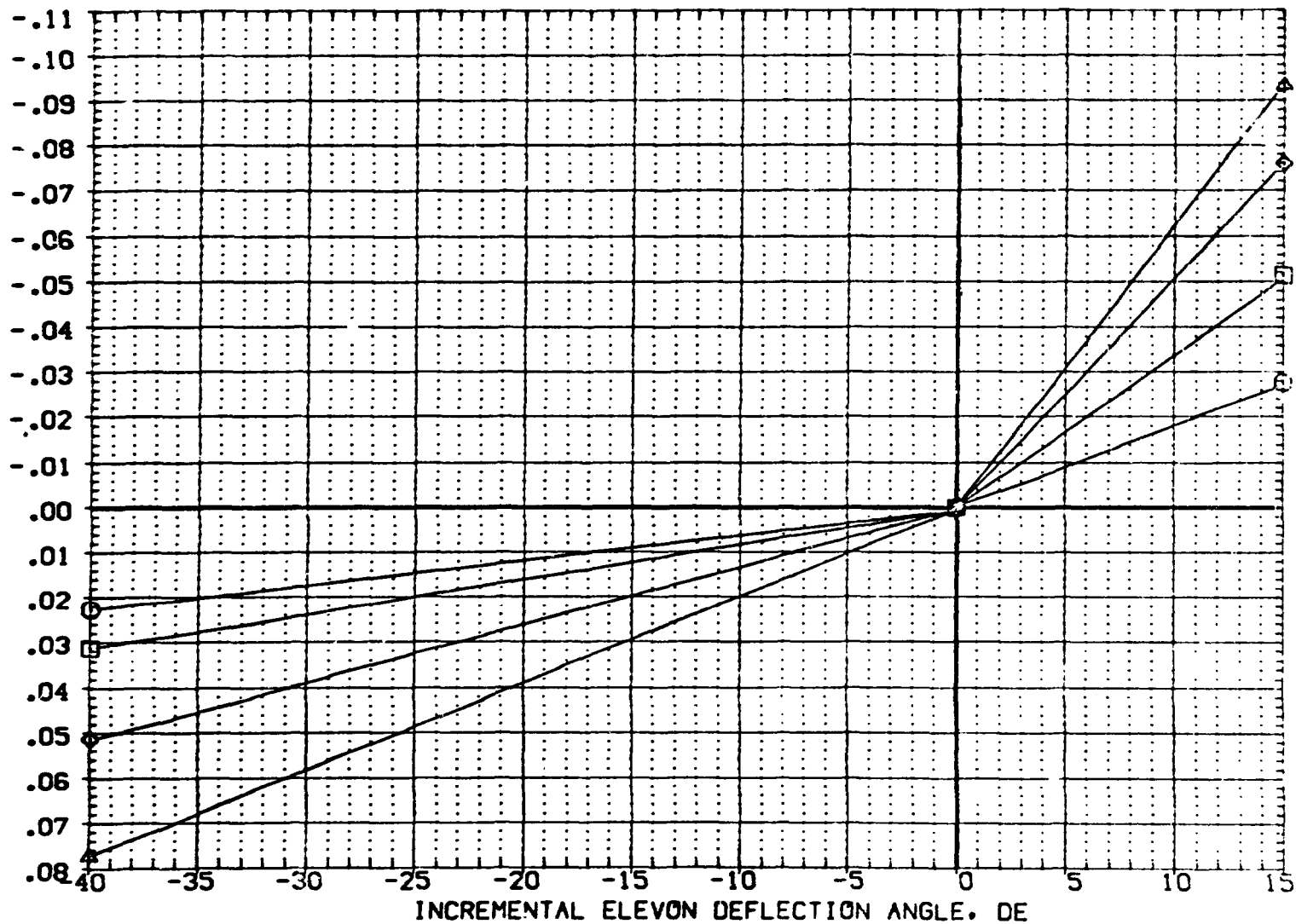


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DE	DATA SOURCE	DE	REFERENCE INFORMATION
○	10.000		7.200		.000	UB6003	-40.000	UB6004	2590.0000 SQ.FT.
□	20.000	AILRON	.000		-14.250	UB6003	.000	UB6005	474.8000 IN.
◇	30.000	SPOBRK	55.000		.000	UB6001			935.6800 IN.
△	40.000								1076.4800 IN.
									YMRP .0000 IN.
									ZMRP 400.0000 IN.
									SCALE .0150 SCALE

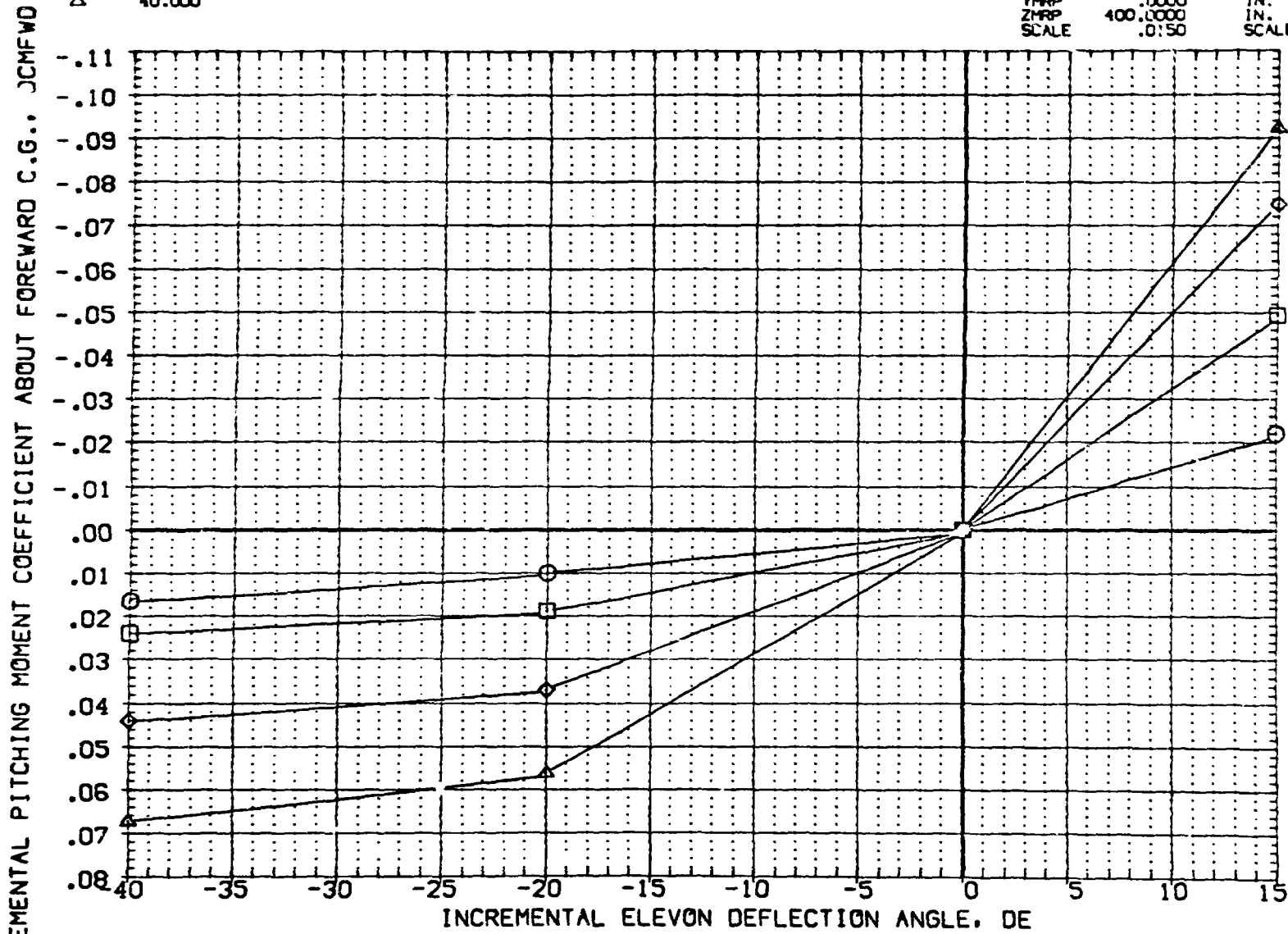


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	10.000		10.200	BEFLA	.000	UB6003	DE		SREF	2690.0000	50. FT.
□	20.000	A1LRON	.000	BDFLAP	-14.250	UB6003	-40.000	UB6004	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDER	.000	UB6001	.000	UB6005	BREF	936.6800	IN.
△	40.000								XMRP	1076.4800	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G., C_{mFW}

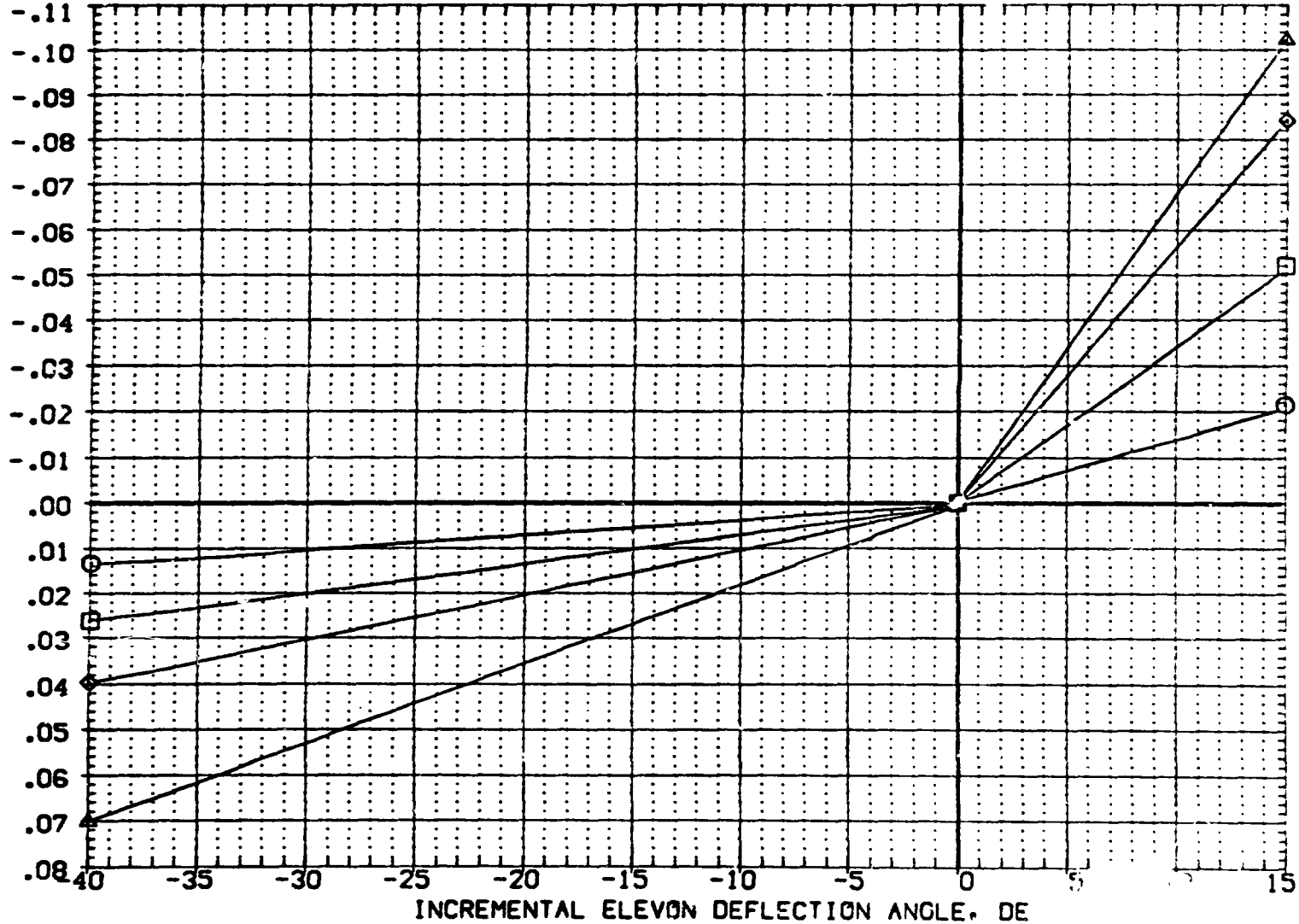


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE)

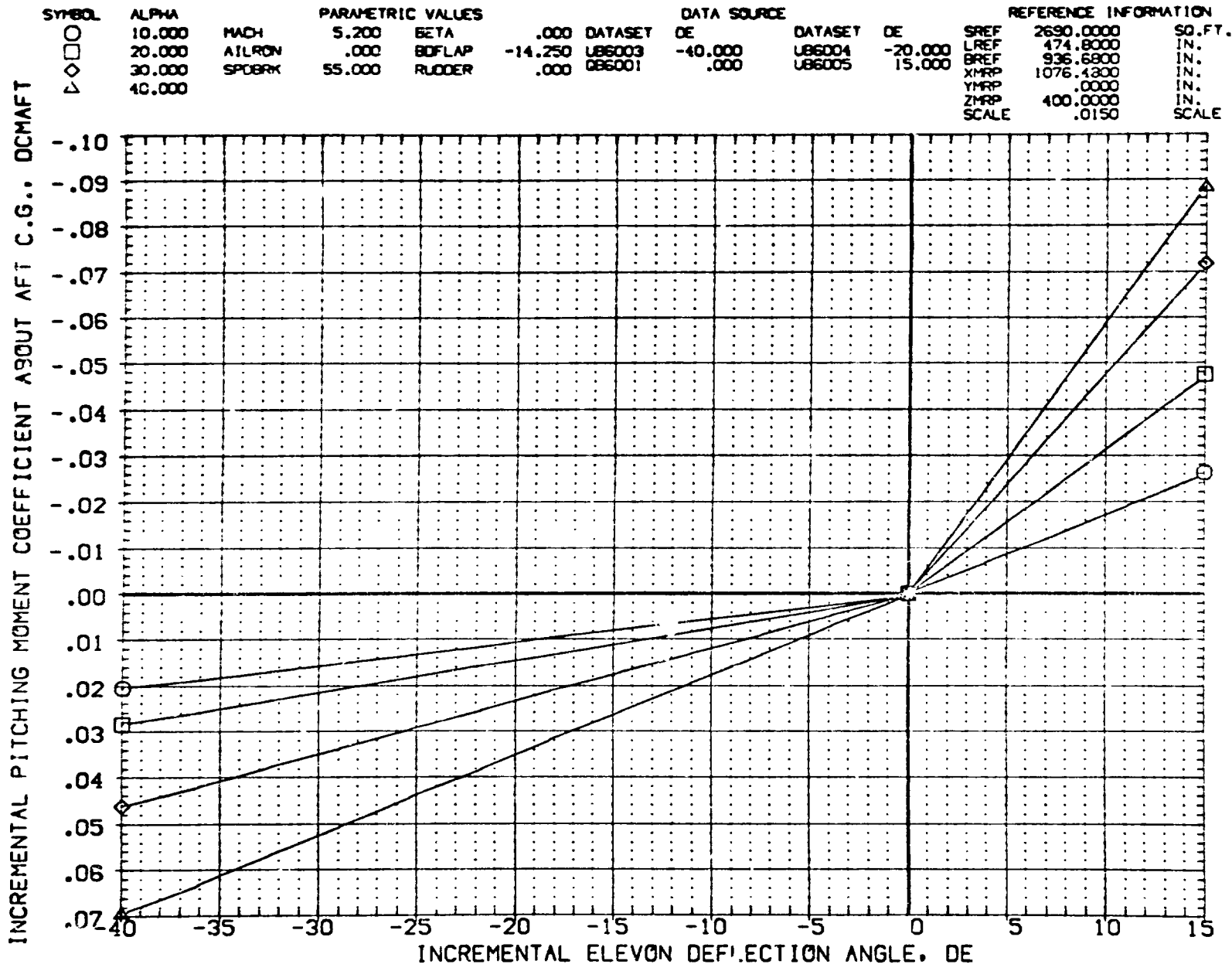


FIG. 4 ELEVON EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

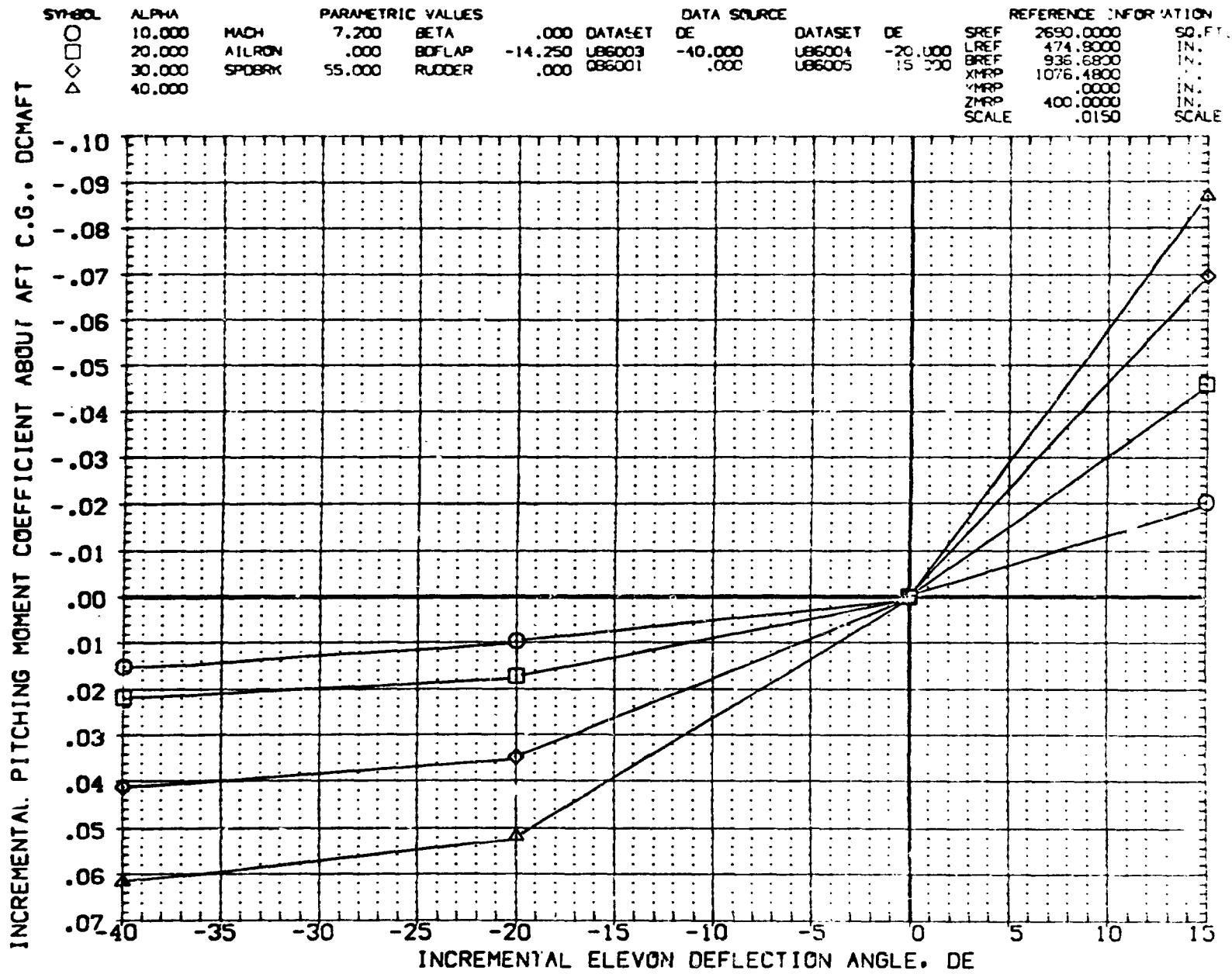


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6003)

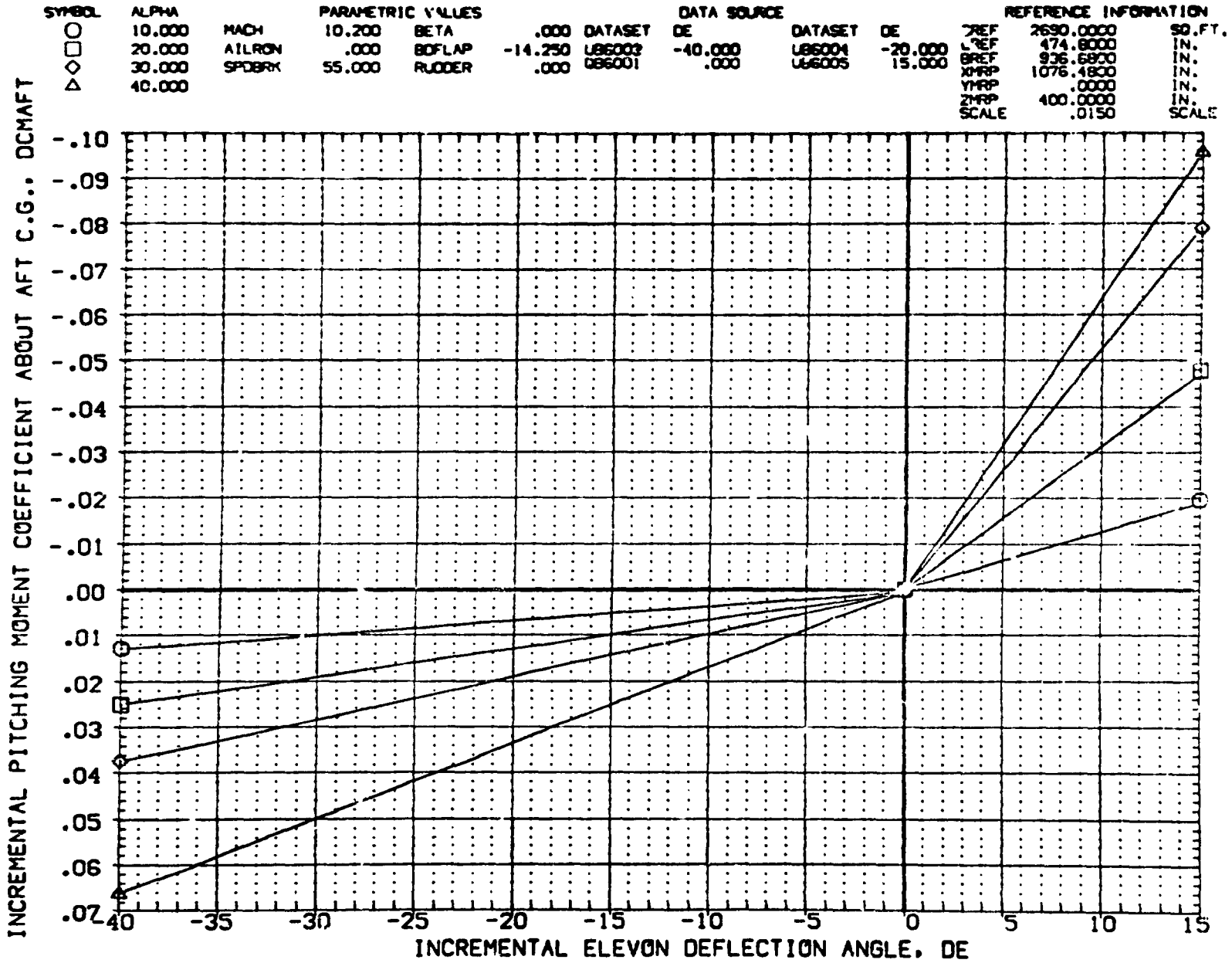


FIG. 4 ELEVON EFFECTS

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SFOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 VI07	.000	-1.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 VI07	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 VI07	.000	13.750	55.000	.000	BREF 936.6000 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	YMFP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMFP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

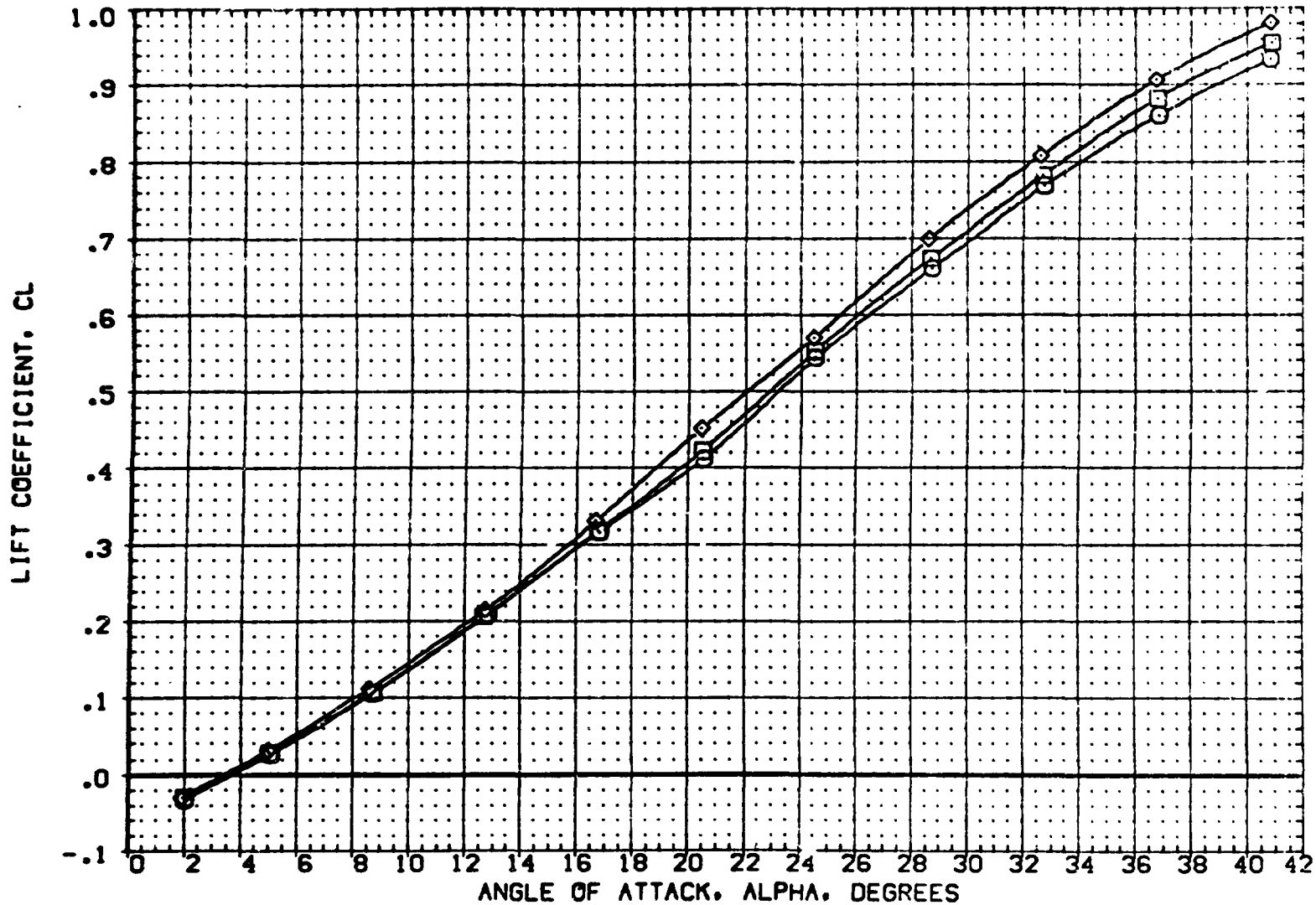


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F3	.0000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F3	.0000	-13.750	55.000	.0000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F3	.0000	-13.750	55.000	.0000	BREF 936.6800 IN.
(CB6003)	AMES3.5-168 GA23 B22 C7 E23 F3	.0000	-14.250	55.000	.0000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 GA23 B22 C7 E23 F3	.0000	.000	55.000	.000	YMRP 100.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

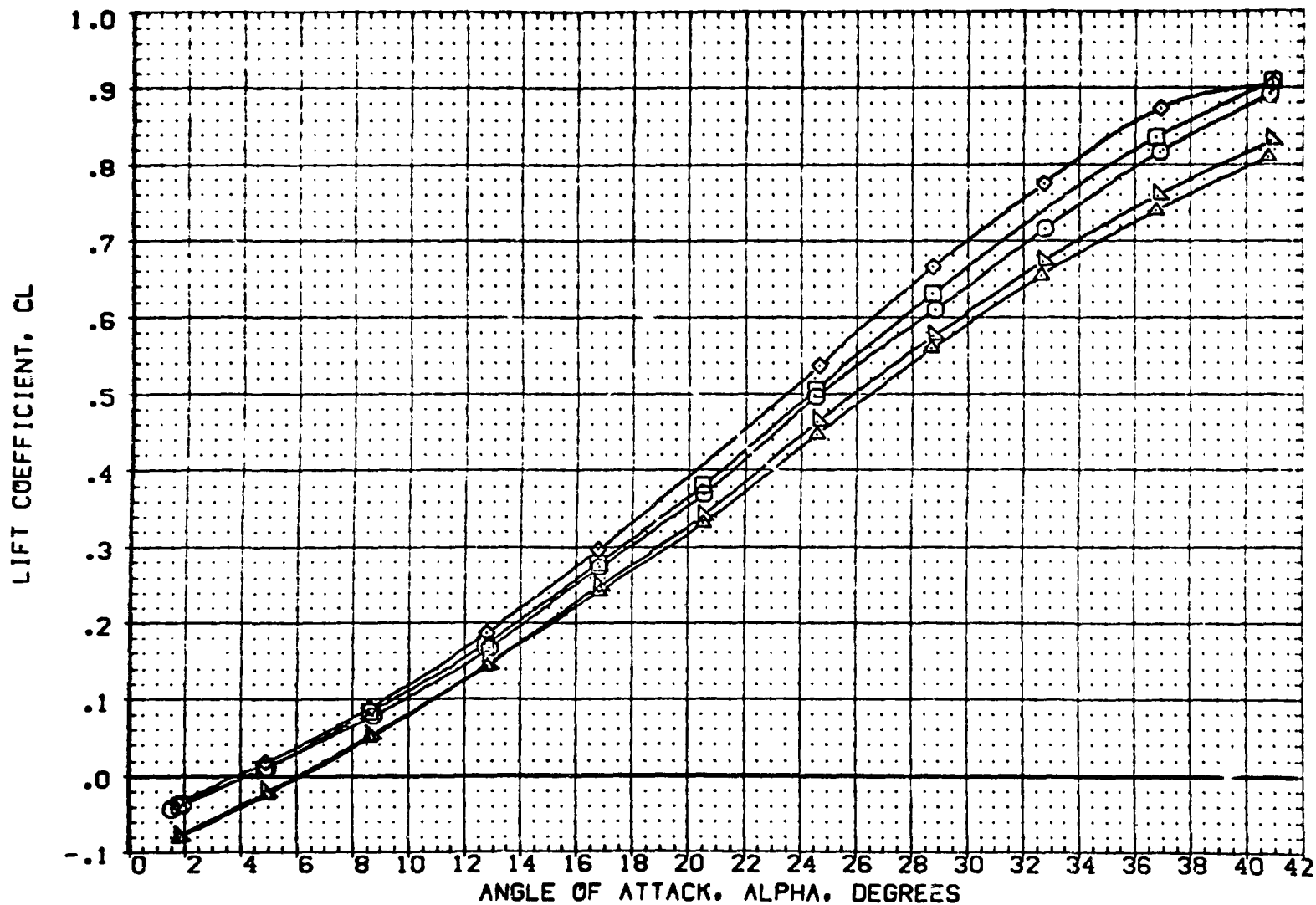


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	□	AMES3.5-168 OA23 B22 C7 E23 F5 H4	.000	-14.750	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	□	AMES3.5-168 OA23 B22 C7 E23 F5 H4	.000	13.750	55.000	.000	LREF 474.8000 IN.
(CB6008)	□	AMES3.5-168 OA23 B22 C7 E23 F5 H4	.000	13.750	55.000	.000	GREF 936.6800 IN.
(JB6003)	△	DATA NOT AVAILABLE	-40.000	-14.750	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	△	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0150 SCALE

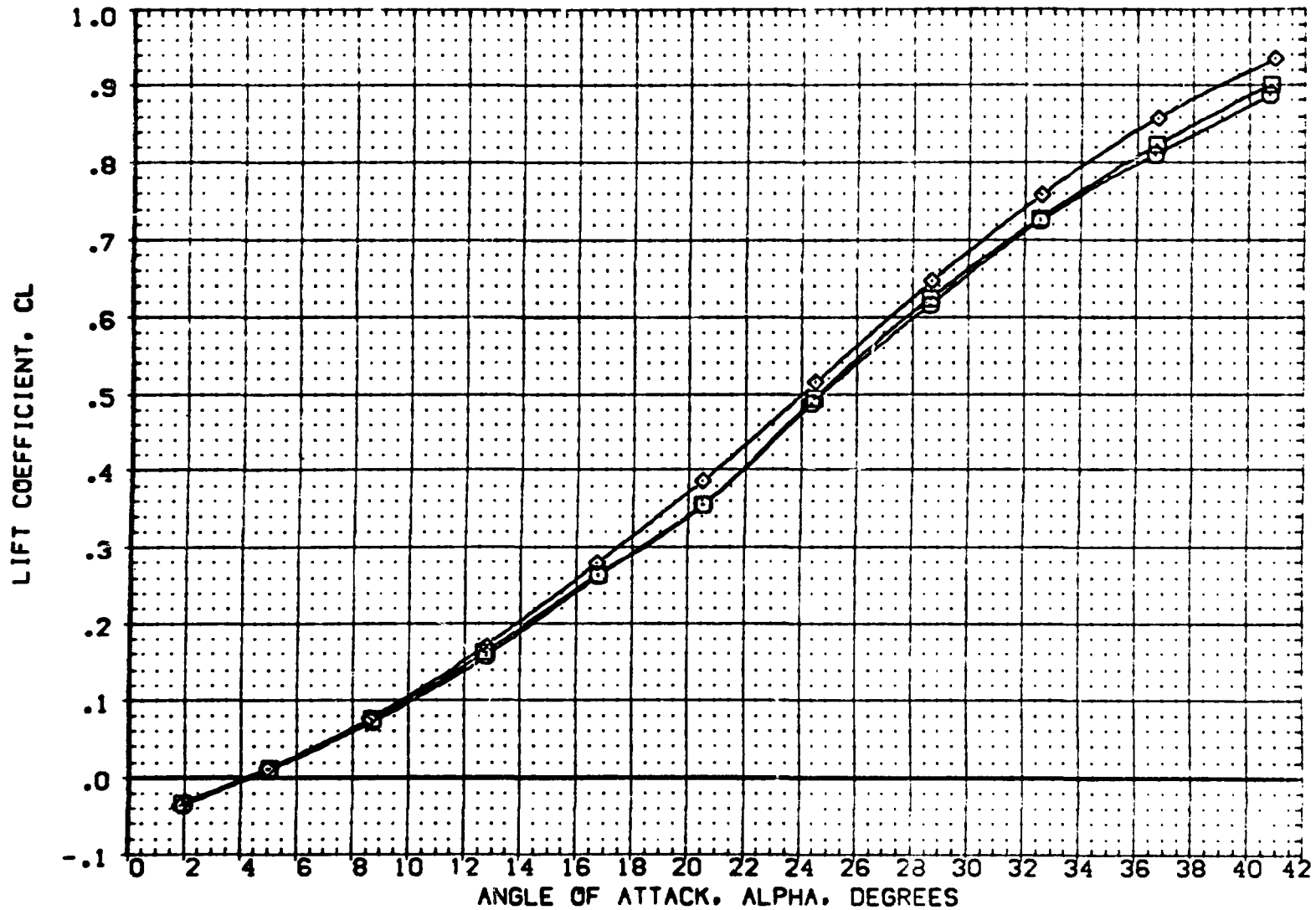


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 S7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 S7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 S7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

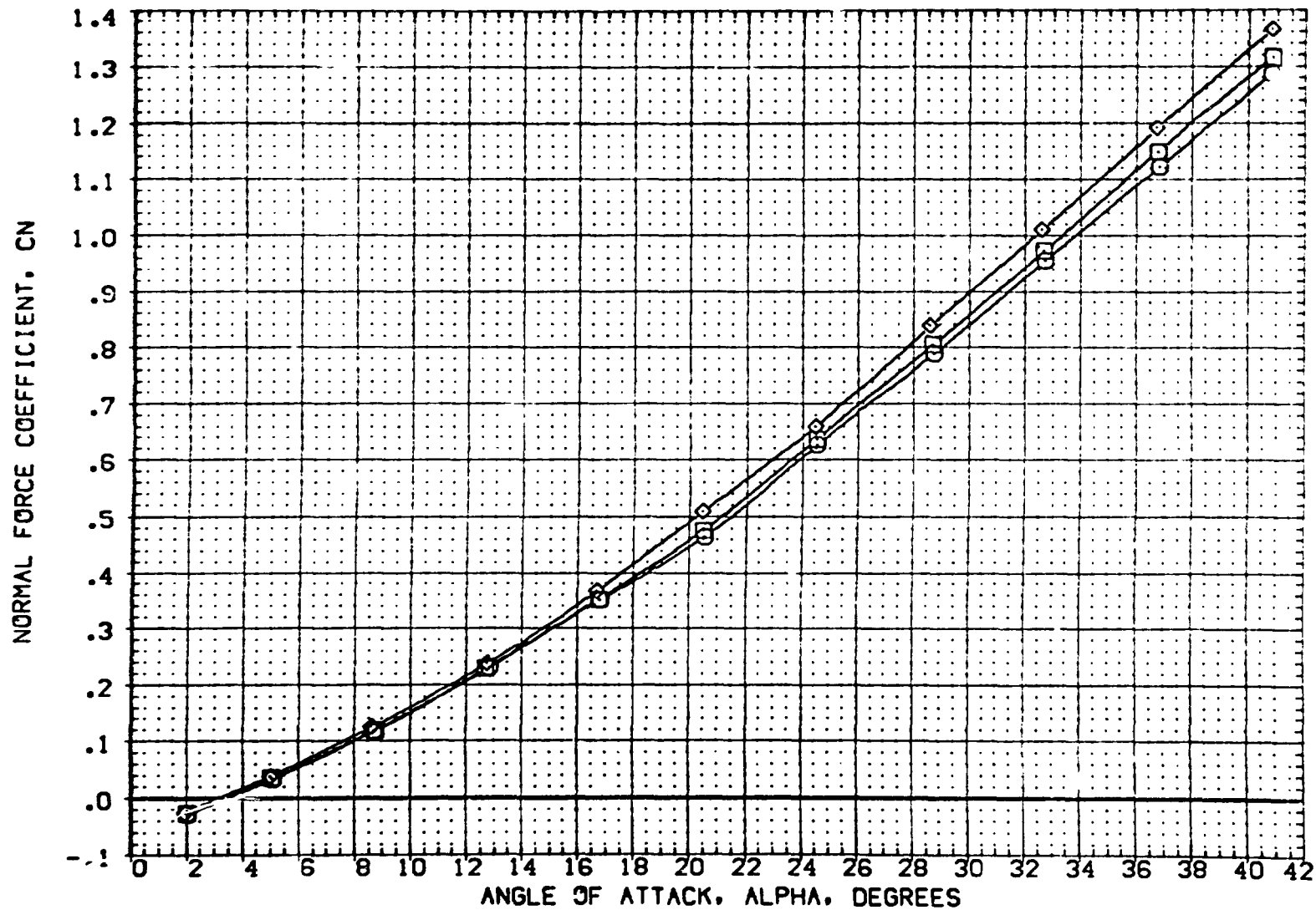


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBPK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.0000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4300 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	.000	55.000	.000	YMRP 1000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

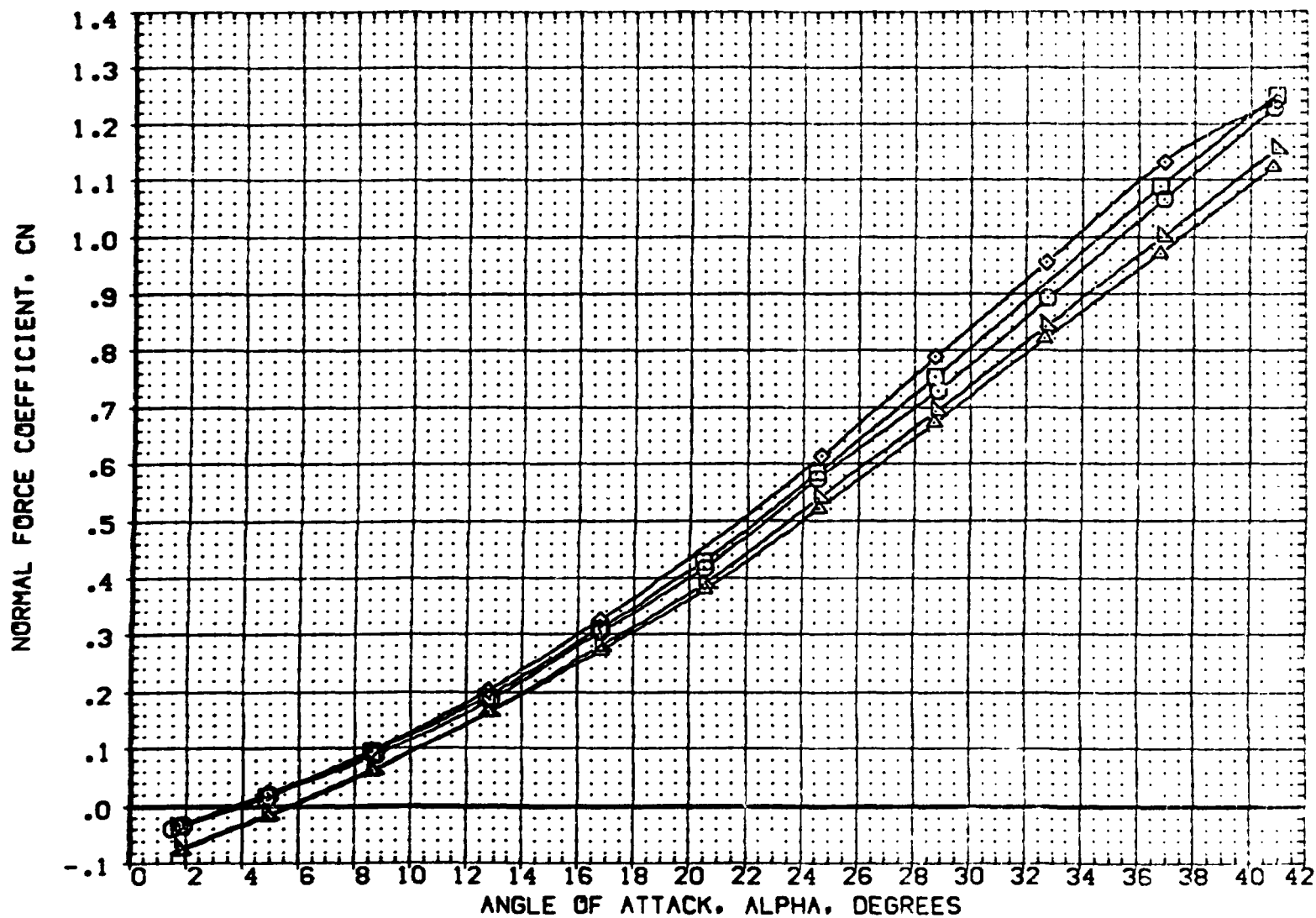


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (O)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	.000	-13.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	.000	-13.750	55.000	.000	BREF 936.6000 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

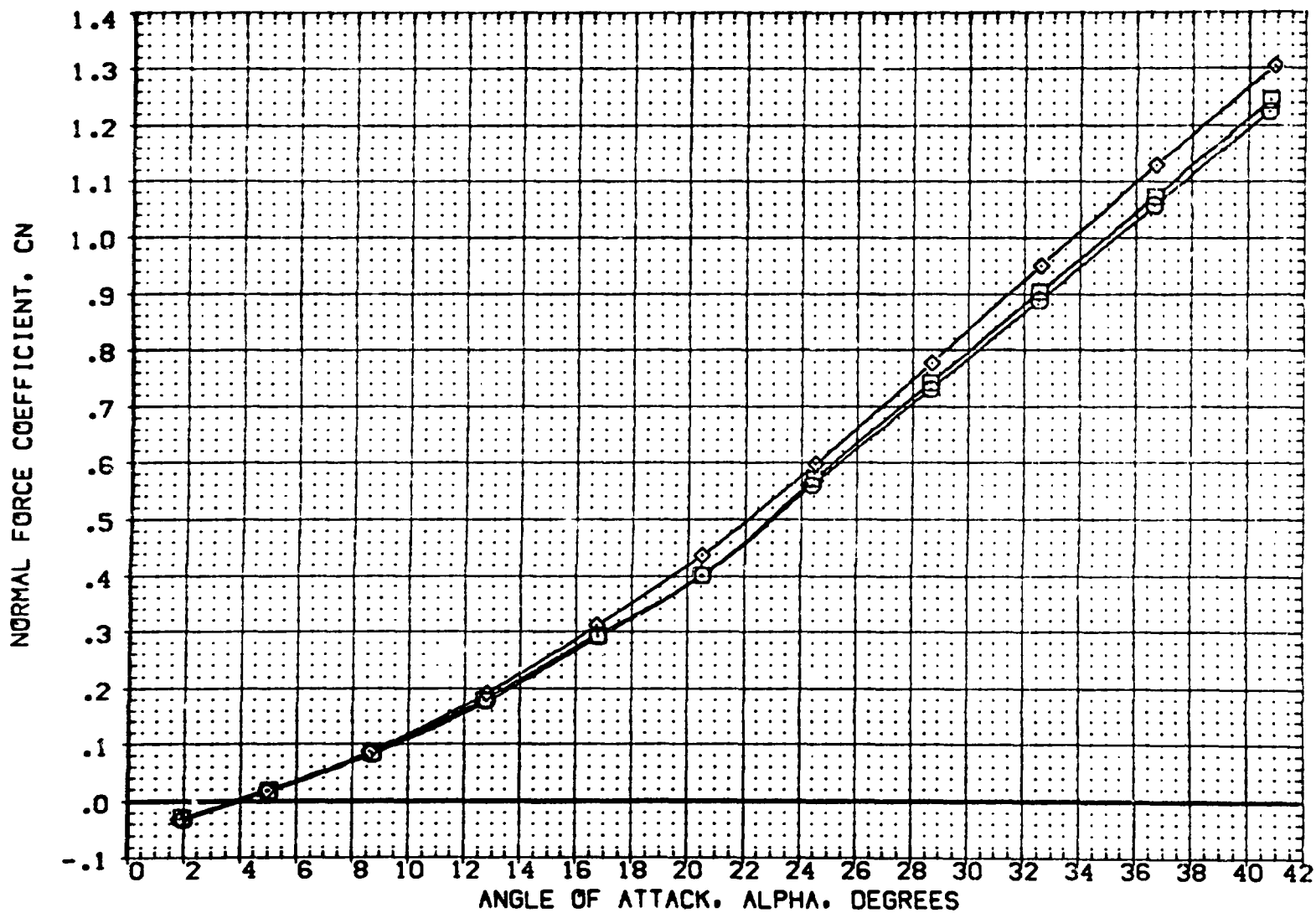


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RLODER	REFERENCE INFORMATION
{CB6001}	AMES3,5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
{CB6007}	AMES3,5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
{CB6008}	AMES3,5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6000 IN.
{JB6003}	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
{CB6006}	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

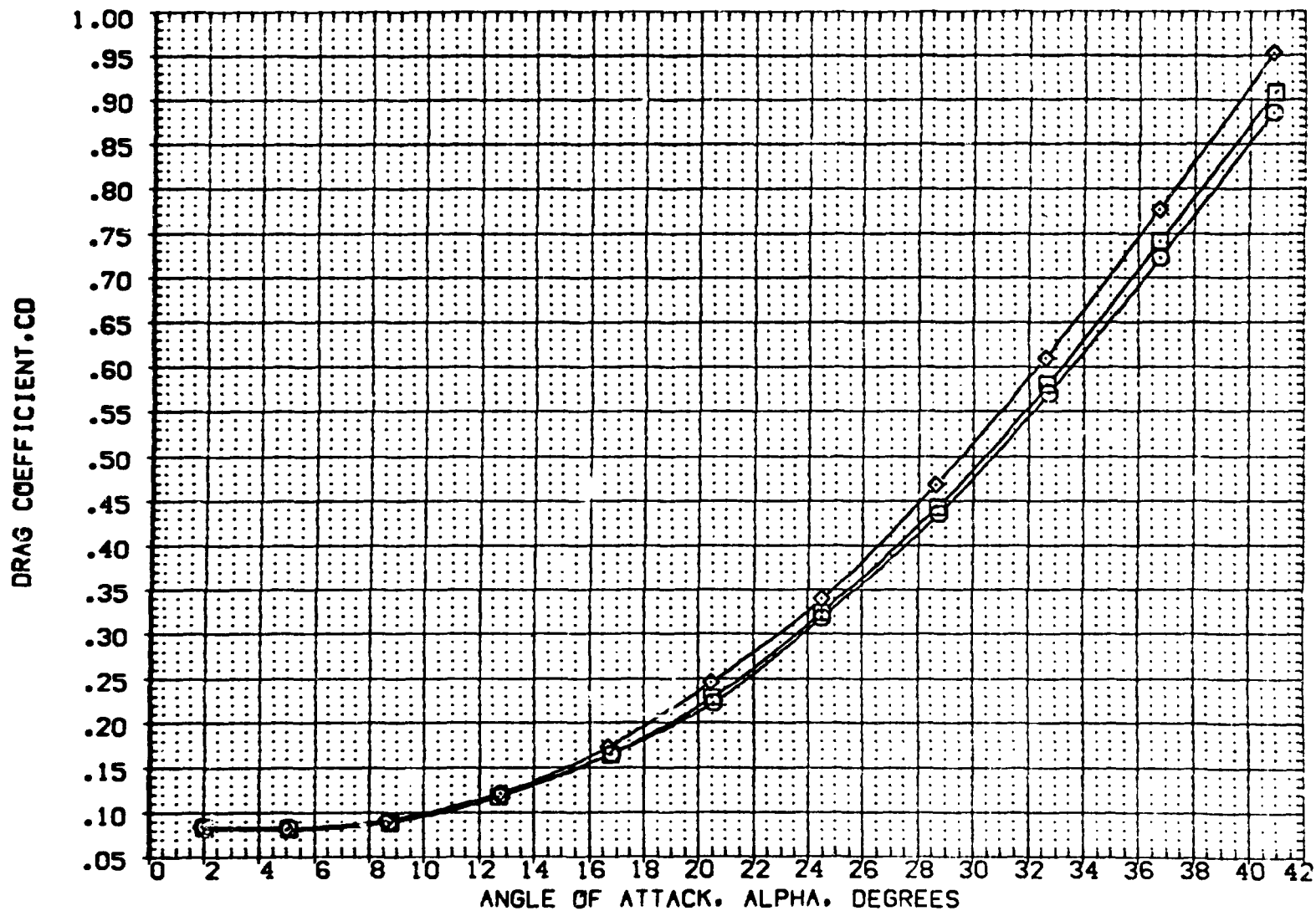


FIG. 5 BODY FLAP EFFECTS

1478 CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.9-168 OA23 B22 C7 E23 F5 F3 F4 F7 V7 V107	.000	-14.750	55.000	.000	BREF 2690.0000 60.FT.
(CB6007)	AMES3.9-168 OA23 B22 C7 E23 F5 F3 F4 F7 V7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.9-168 OA23 B22 C7 E23 F5 F3 F4 F7 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	AMES3.9-168 OA23 B22 C7 E23 F5 F3 F4 F7 V7 V107	-40.000	-14.750	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.9-168 OA23 B22 C7 E23 F5 F3 F4 F7 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

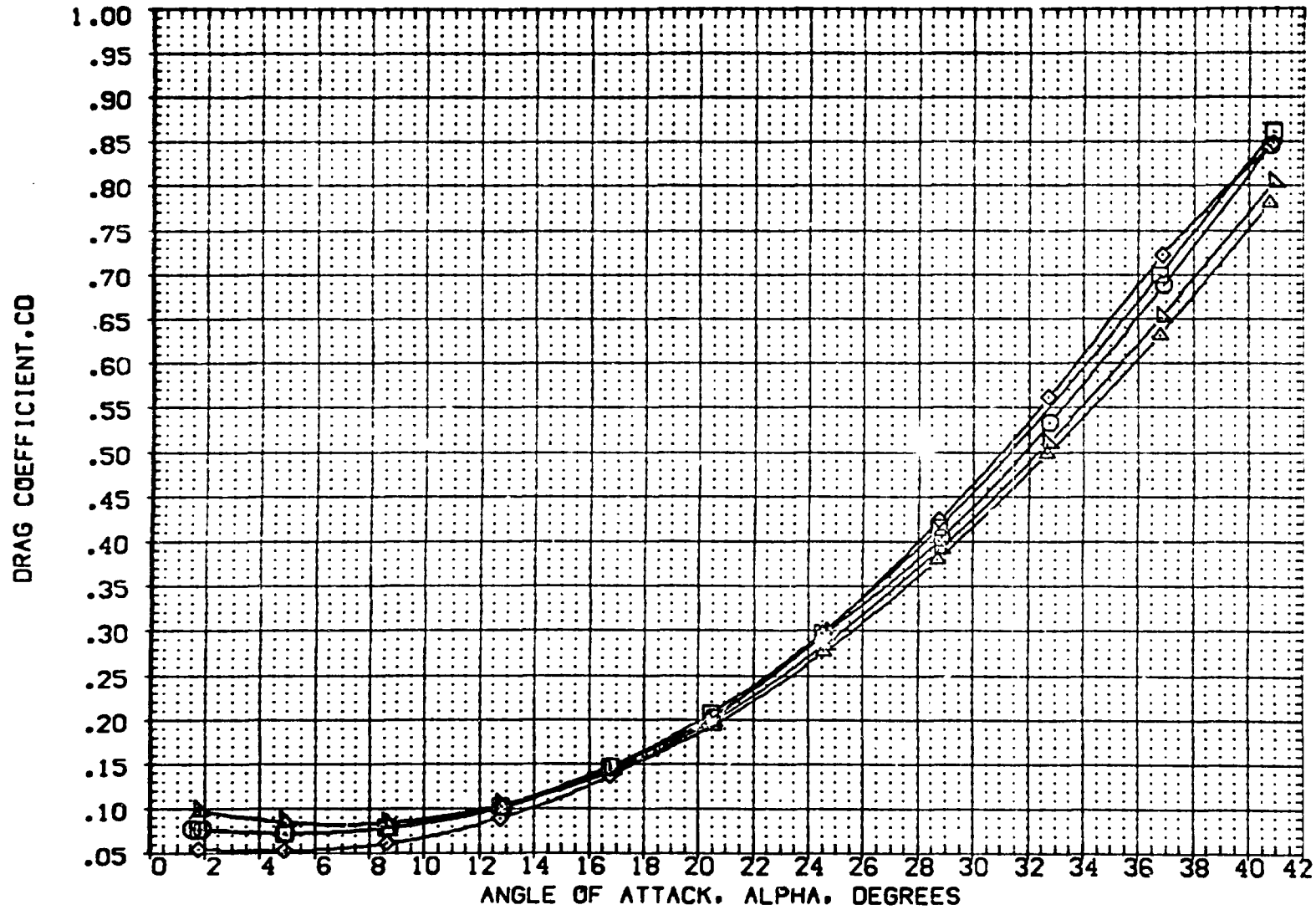


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 336.6900 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4900 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

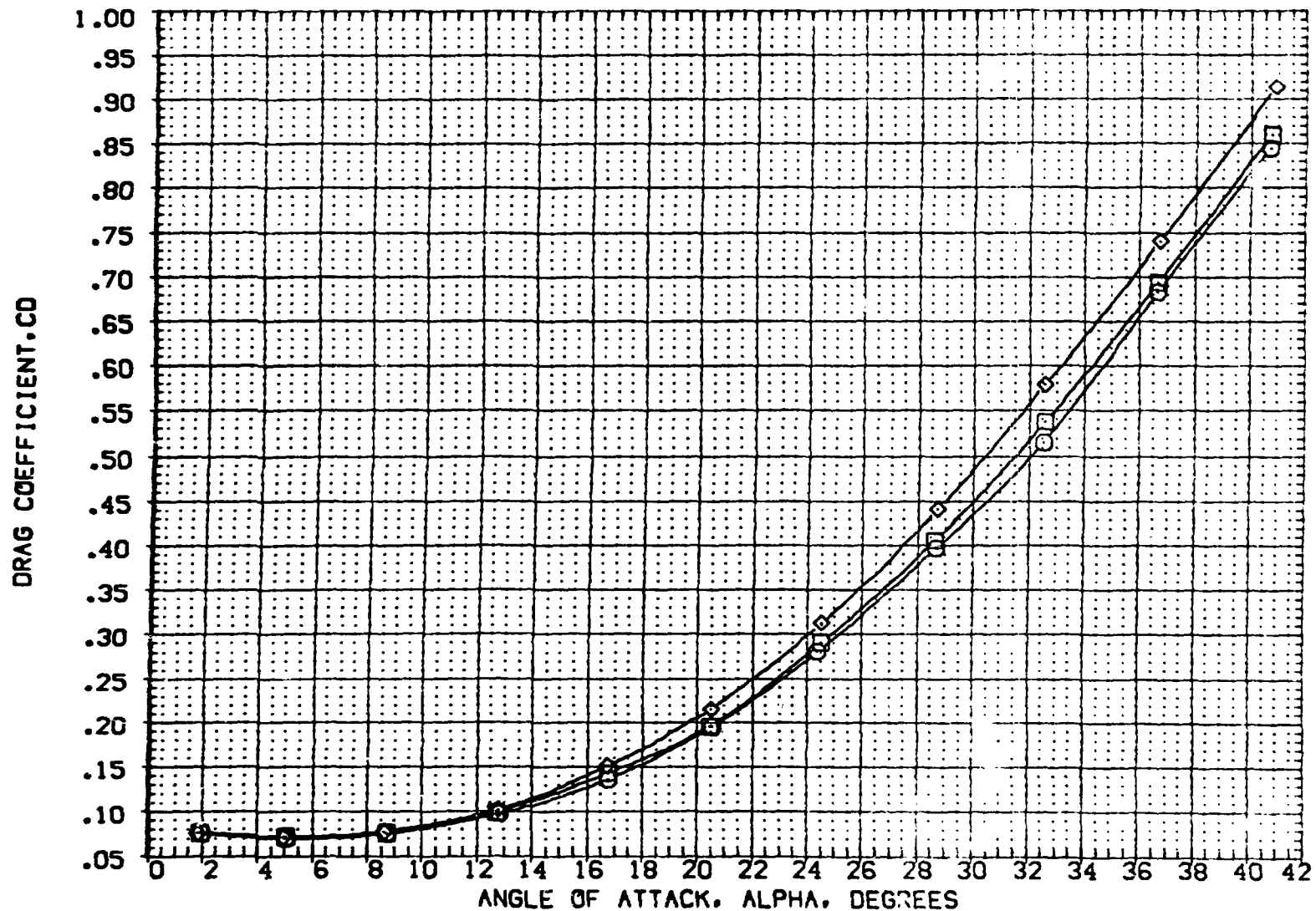


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

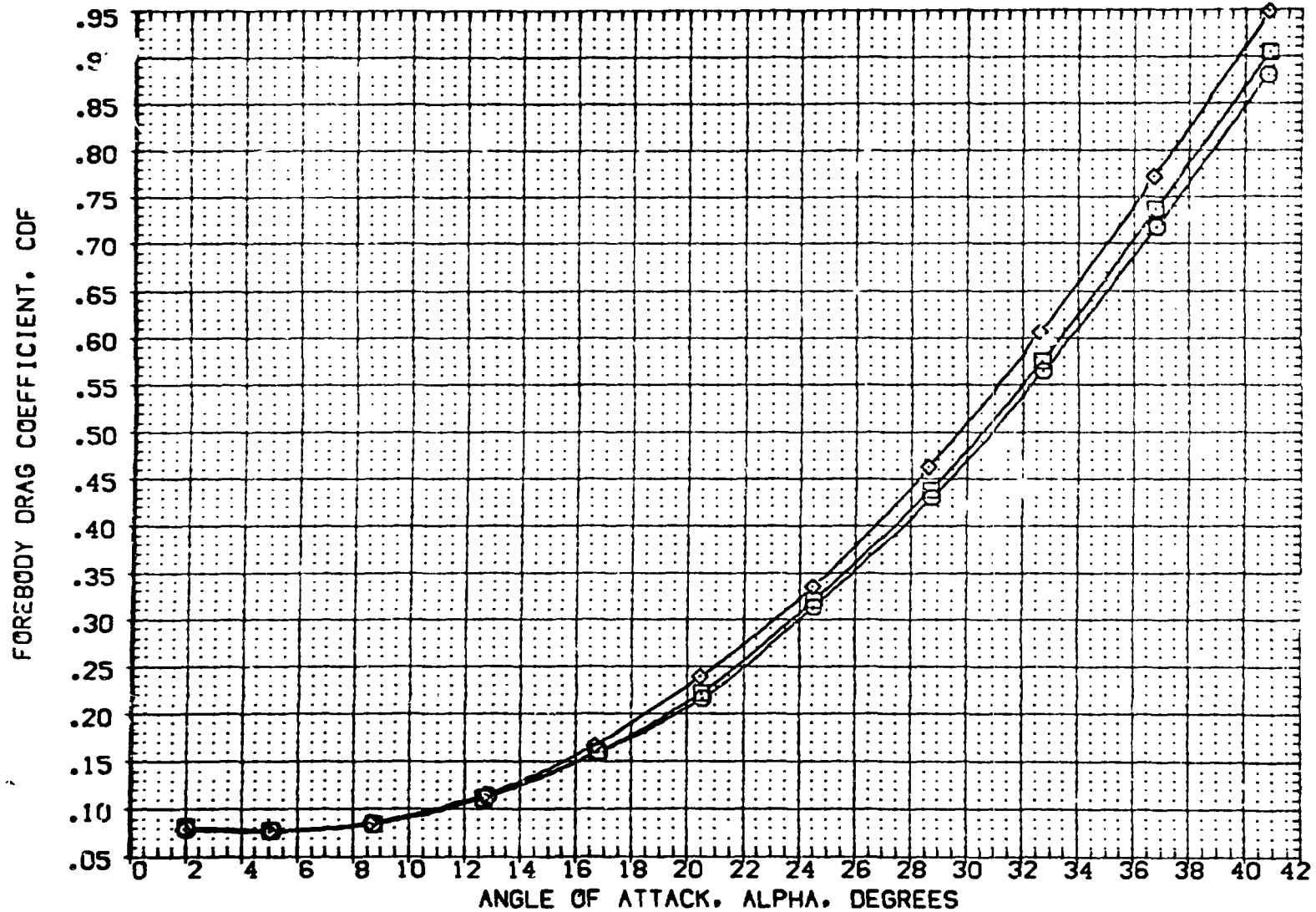


FIG. 5 BODY FLAP EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6900 IN.
(JB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	-14.250	55.000	.000	XMRP .076.4800 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

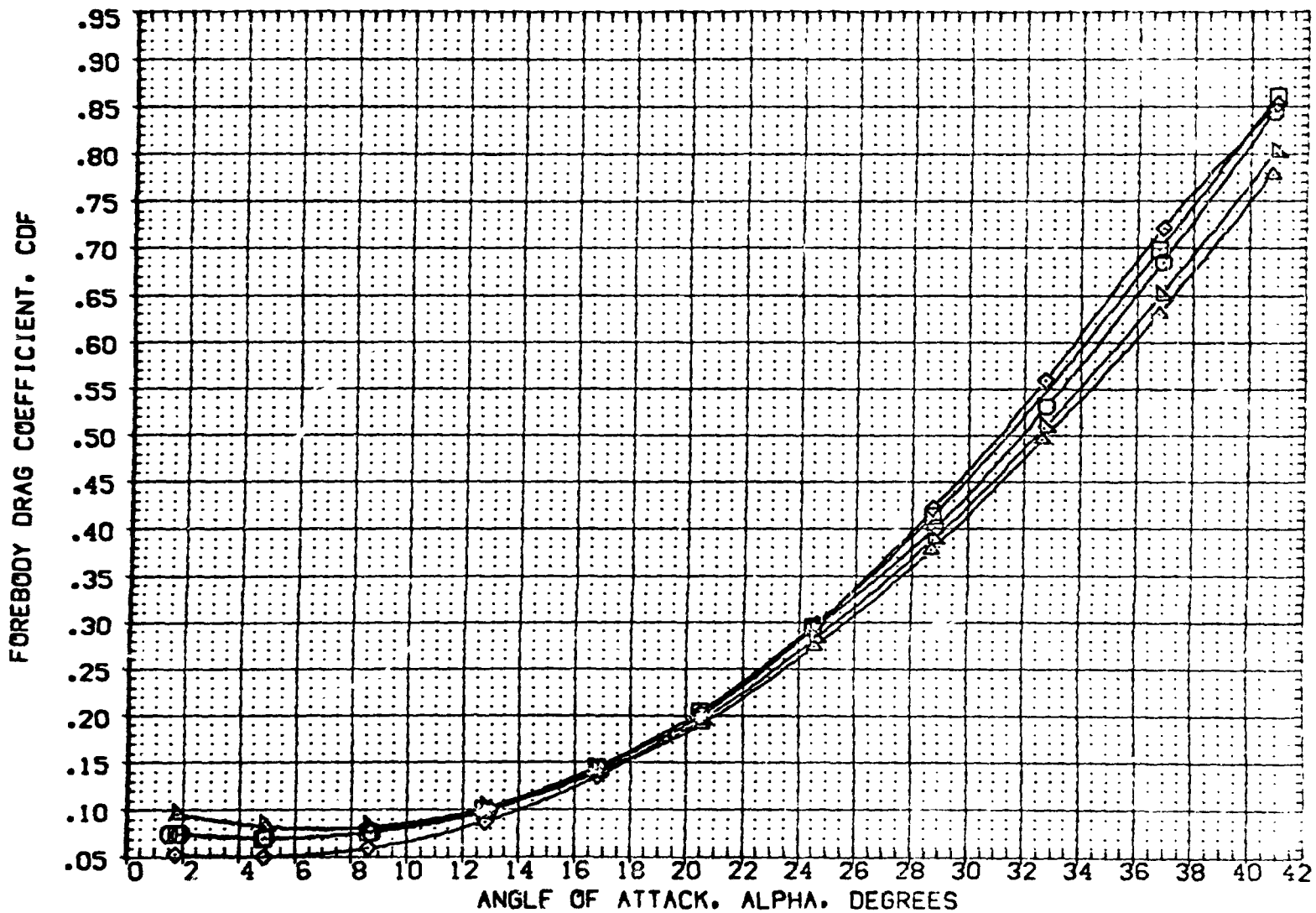


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	○	AMES3.5-168 0A23 B22 C7 E23 F5 M R8 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	□	AMES3.5-168 0A23 B22 C7 E23 F5 M R8 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	◇	AMES3.5-168 0A23 B22 C7 E23 F5 M R8 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(J86003)	△	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	▽	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
							ZMRP 400.0000 IN.
							SCALE .0150 SCALE

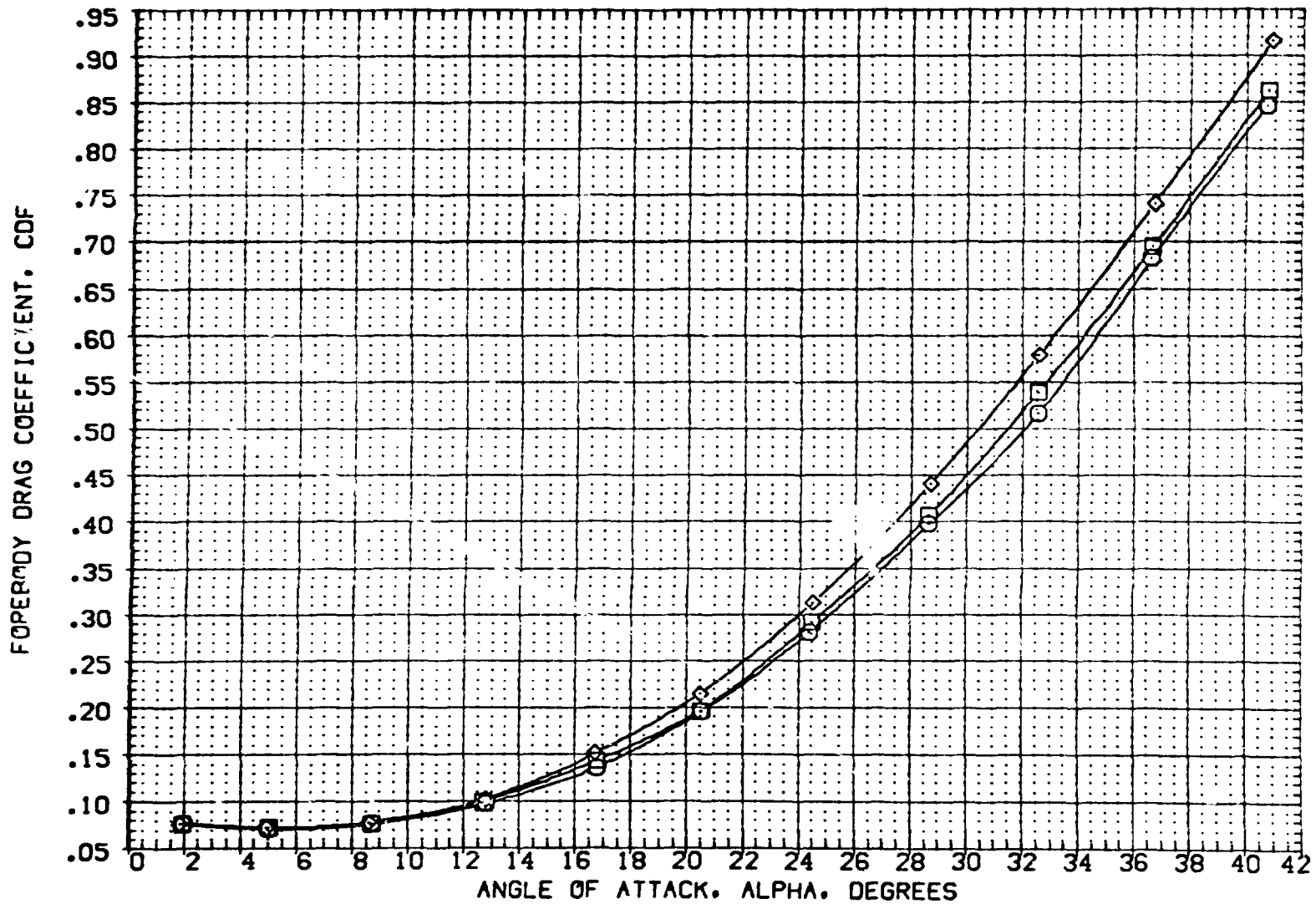


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-13.750	55.000	.000	SREF 336.6800 IN.
(J95003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

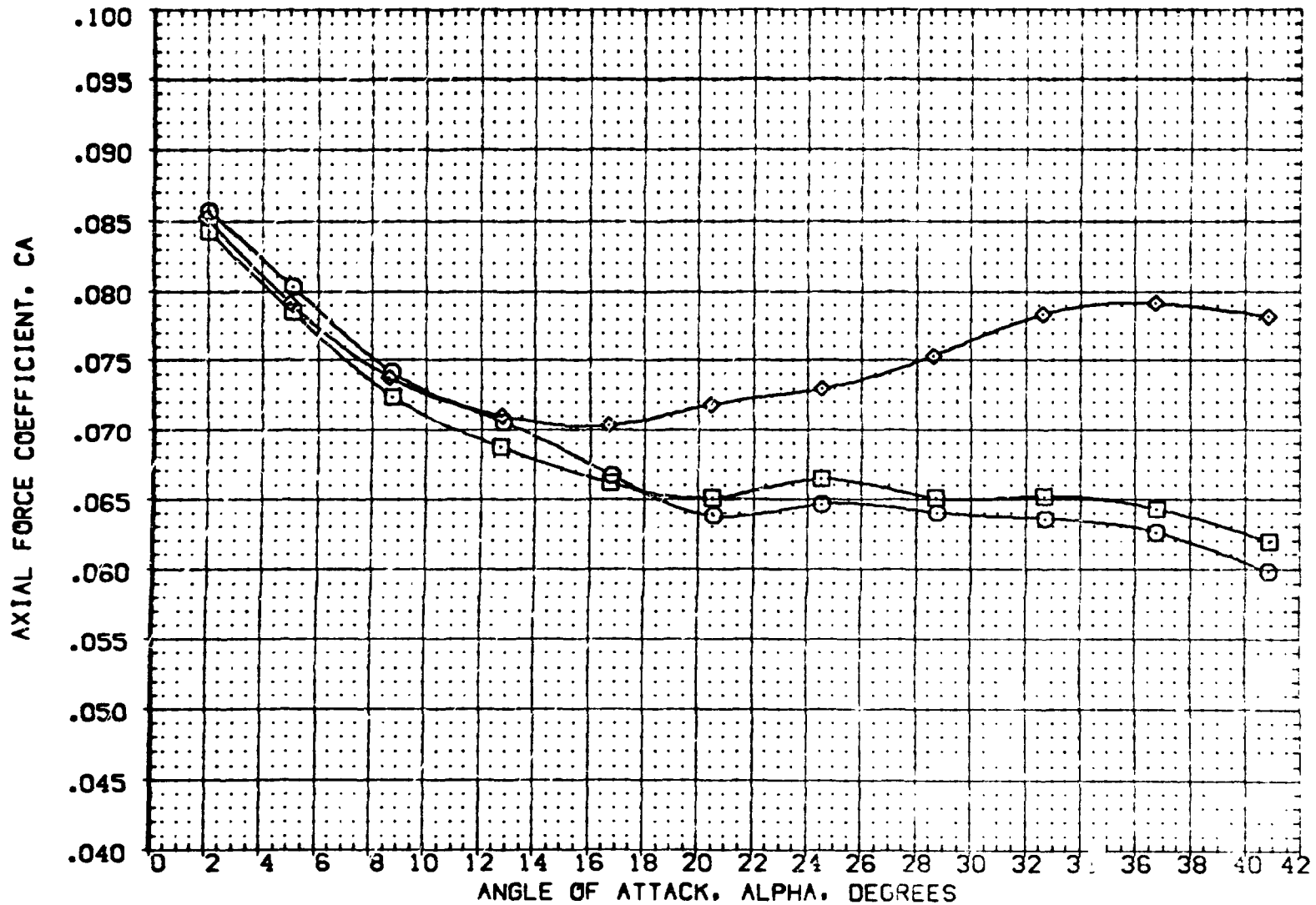


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	SOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AN	0A23	0000	0000	0000	2630.0000
(CB6007)	AN	0A23	0000	0000	0000	474.0000
(CB6008)	AN	0A23	0000	0000	0000	836.0000
(CB6003)	AN	0A23	0000	0000	0000	1076.0000
(CB6006)	AN	0A23	0000	0000	0000	400.0000
						SCALE
						0.0150
						80. FT.
						IN.
						IN.
						IN.
						SCALE

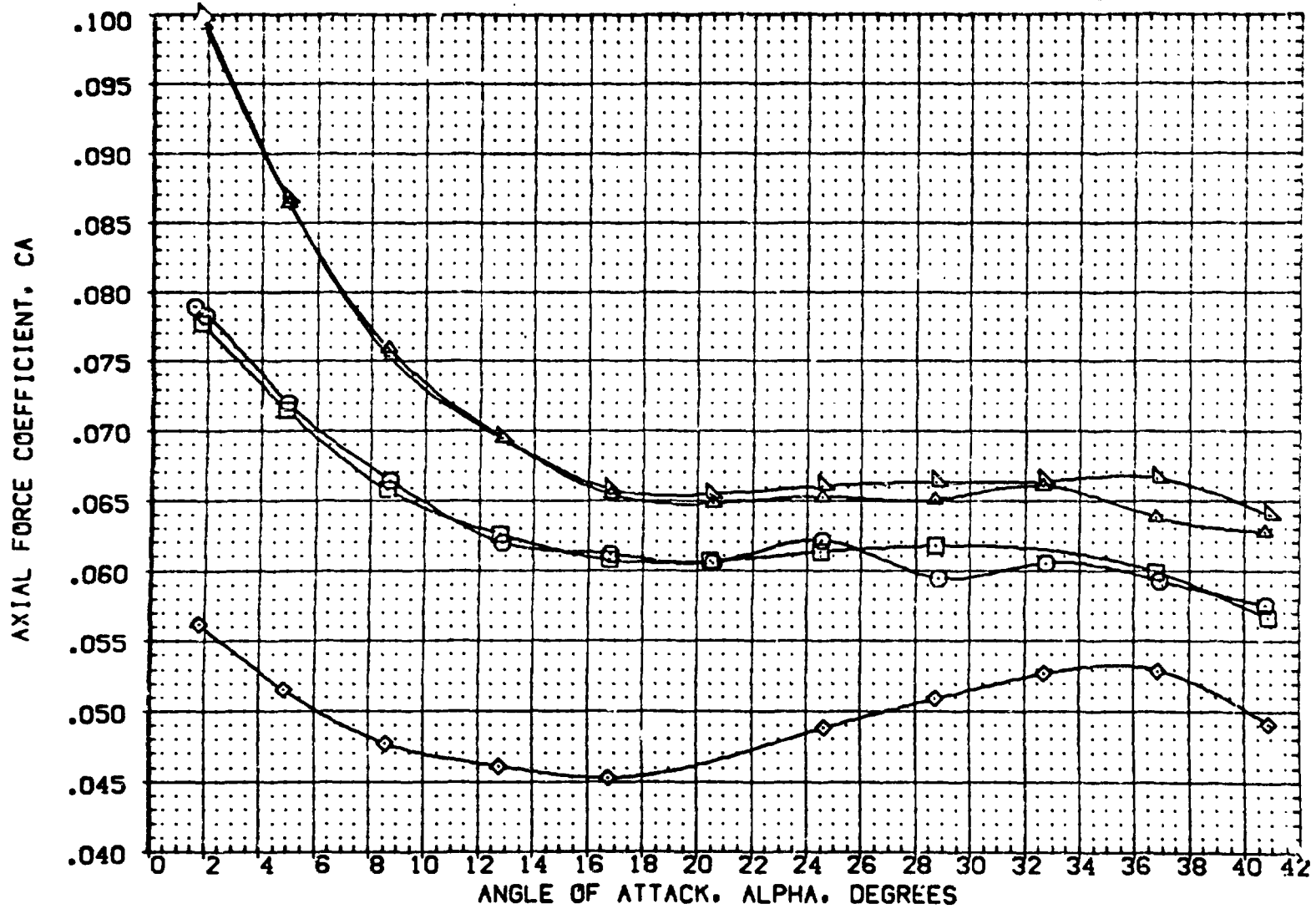


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R05 V7 V107
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R05 V7 V107
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R05 V7 V107
(CB6003)	DATA NOT AVAILABLE
(CB6006)	DATA NOT AVAILABLE

ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
.000	.000	55.000	.000	LREF	474.8000 IN.
.000	-13.750	55.000	.000	BREF	936.6800 IN.
-40.000	-14.250	55.000	.000	XMRP	1076.4000 IN.
-40.000	.000	55.000	.000	YMRP	.0000 IN.
				ZMRP	400.0000 IN.
				SCALE	.0150 SCALE

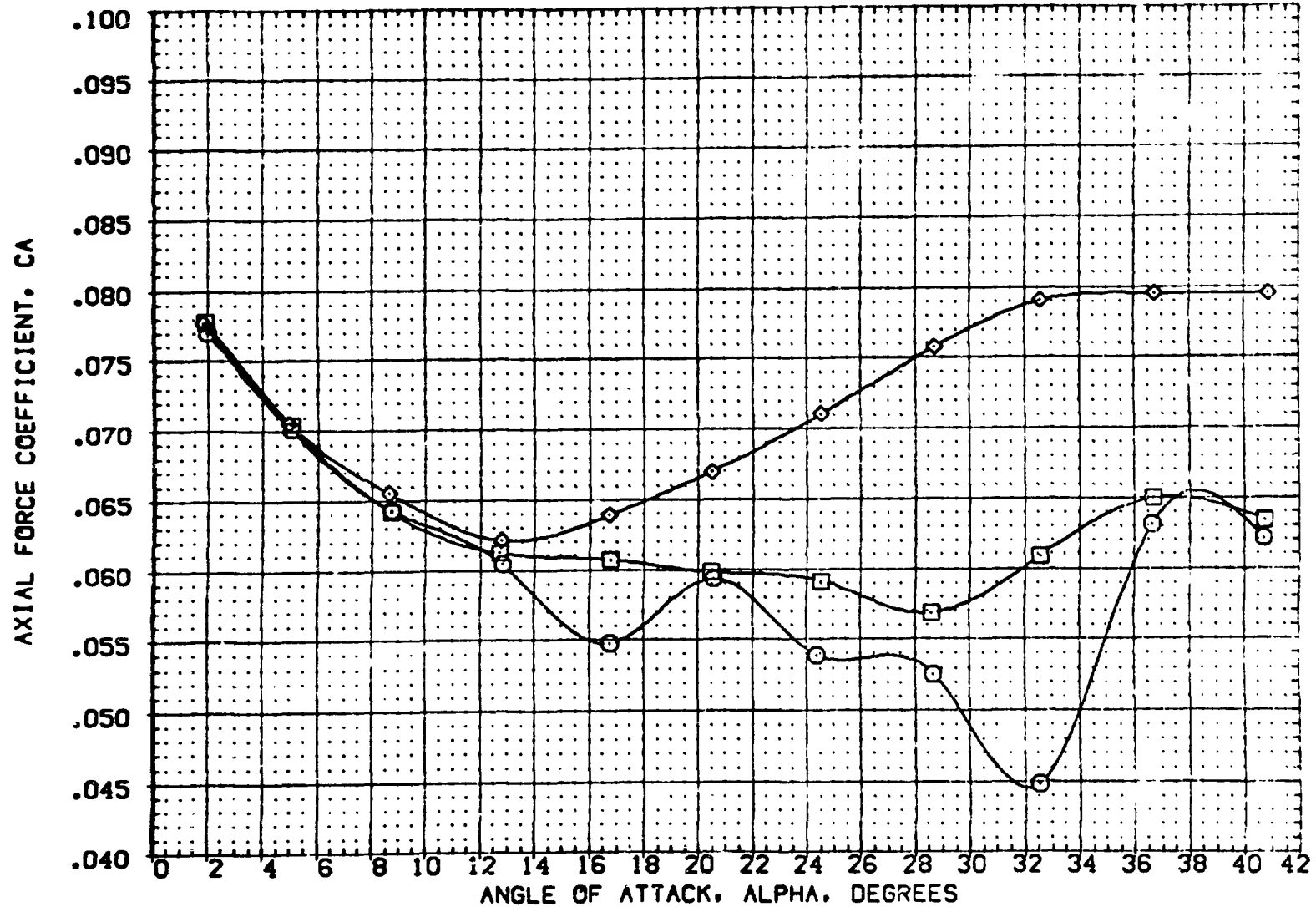


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R08 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R08 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R08 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.1800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

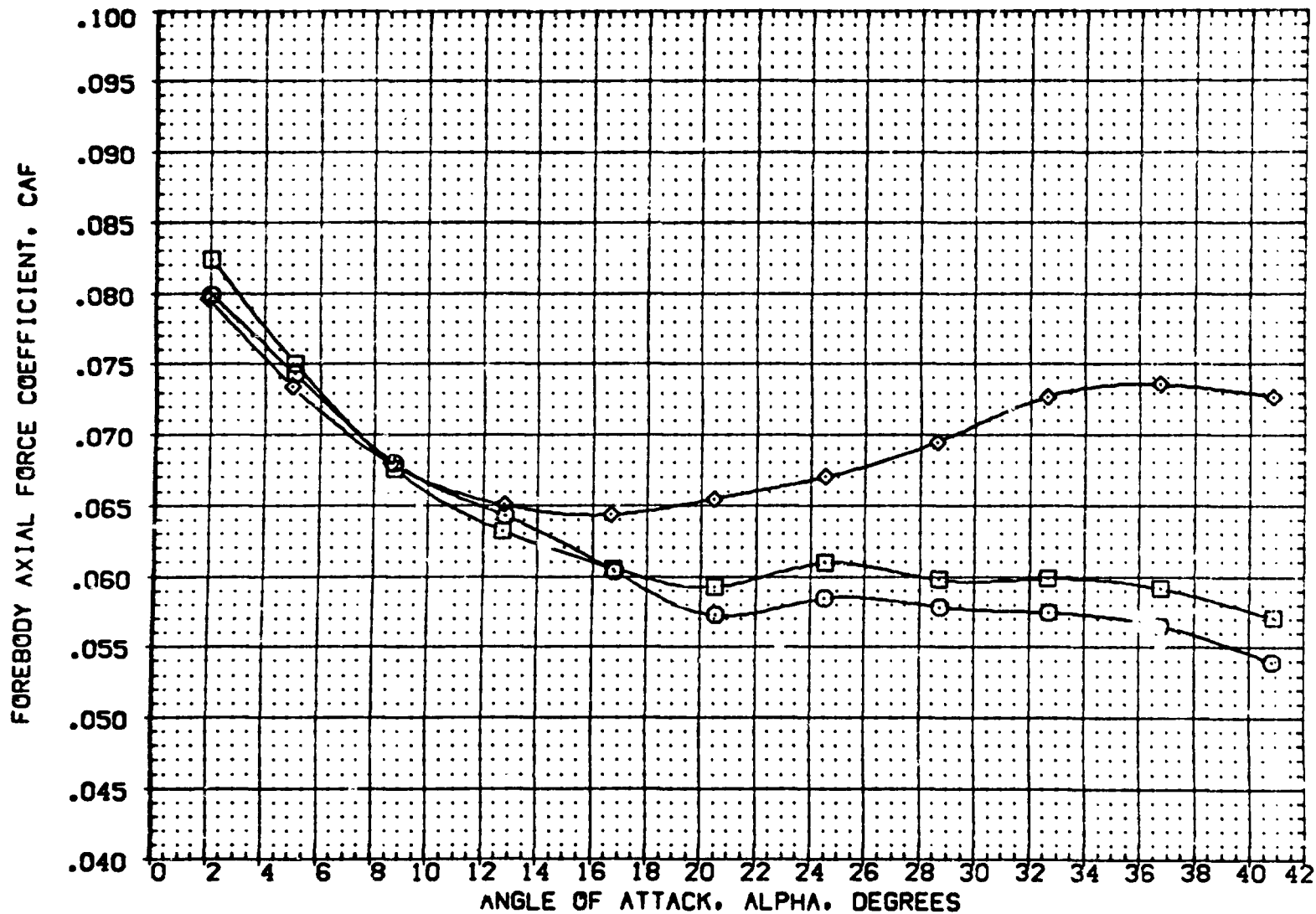


FIG. 5 BODY FLAP EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.168 OA23 B22 C7 E23 F33 H33 V7 V107	.000	-14.000	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.168 OA23 B22 C7 E23 F33 H33 V7 V107	.000	-14.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.168 OA23 B22 C7 E23 F33 H33 V7 V107	.000	-13.750	55.000	.000	TREF 936.6000 IN.
(CB6003)	AMES3.168 OA23 B22 C7 E23 F33 H33 V7 V107	-40.000	-14.000	55.000	.000	XMRP 176.4000 IN.
(CB6006)	AMES3.168 OA23 B22 C7 E23 F33 H33 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

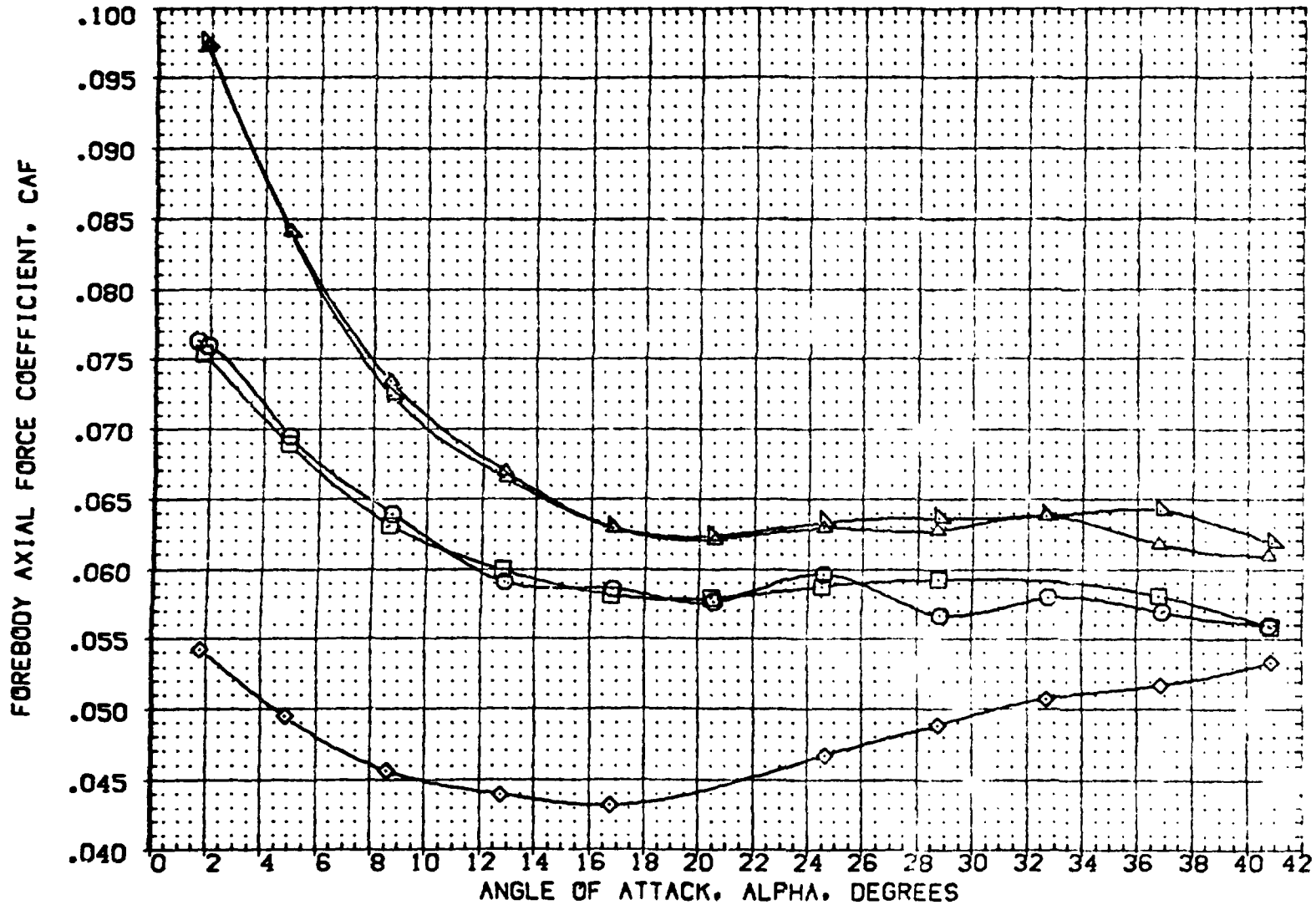


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 J8 K5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 J8 K5 V7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F3 H4 J8 K5 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6005)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

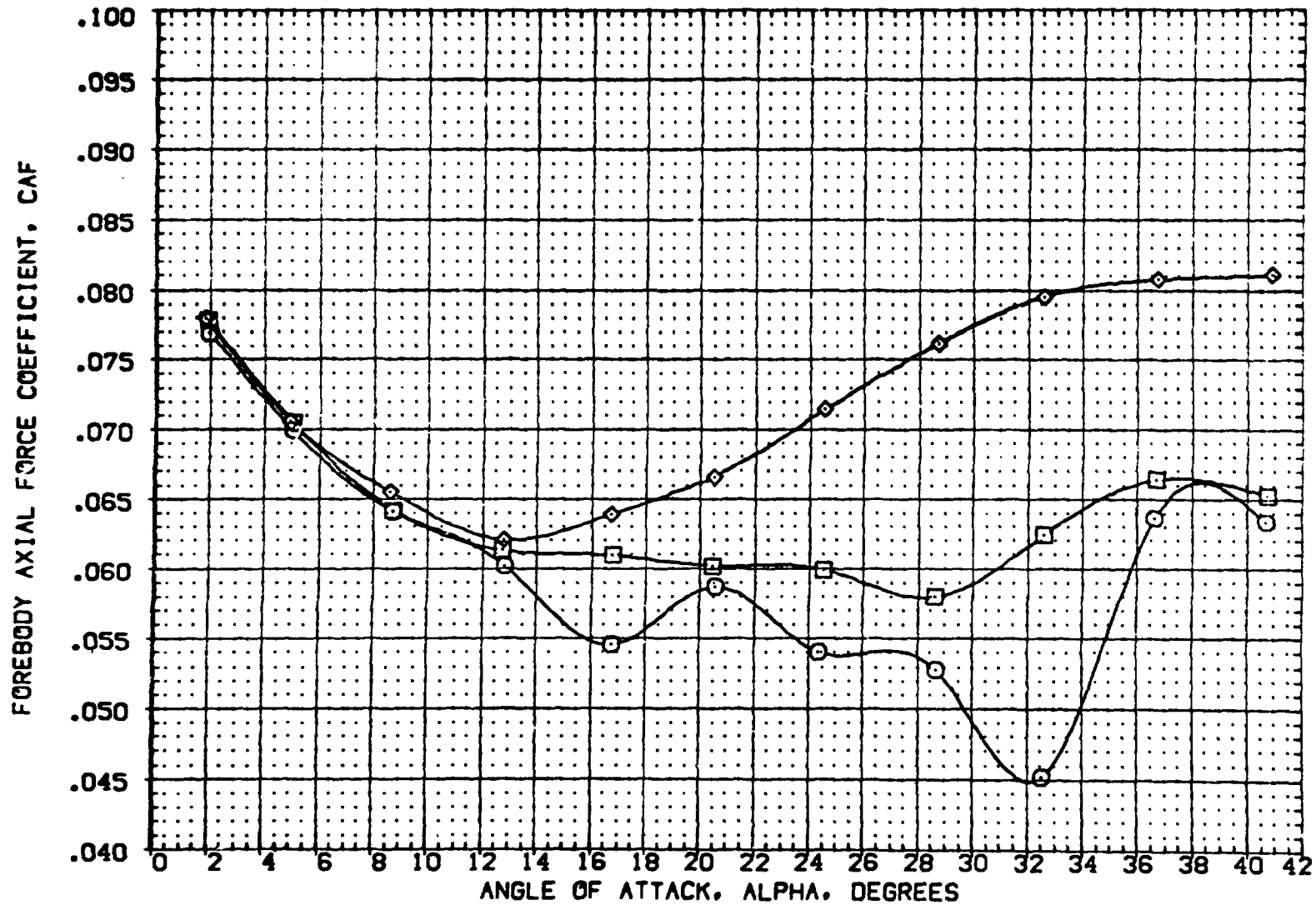


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.29

1478 CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDLER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 J5 K6 L7 M8 N9 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 J5 K6 L7 M8 N9 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 J5 K6 L7 M8 N9 V7 V107	.000	13.750	55.000	.000	BREF 936.6900 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	ZMRP .0000 IN.
						SCALE 400.0000 IN.
						SCALE .0150 SCALE

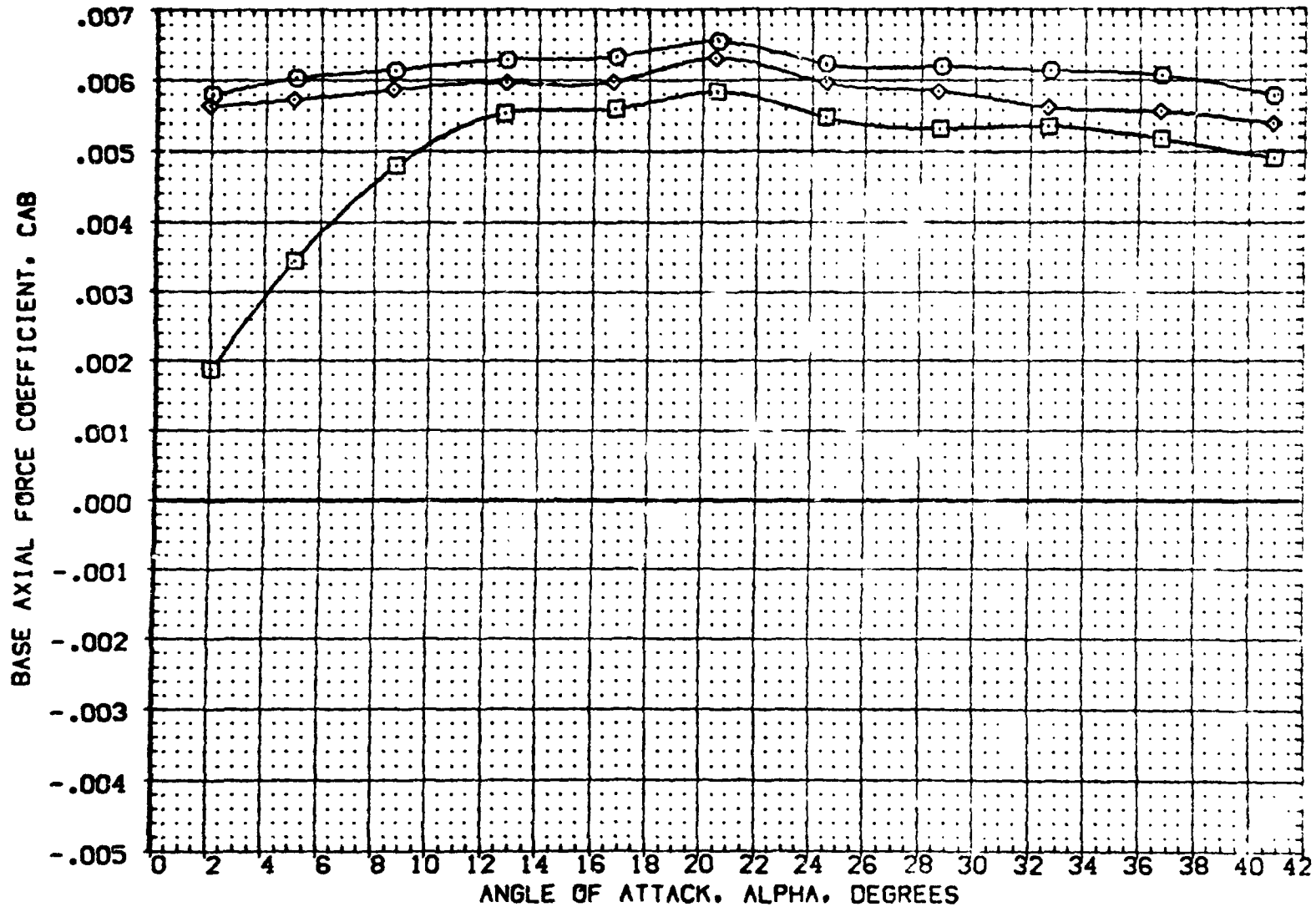


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F3 H 33333 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F3 H 33333 V7 V107	.000	0.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F3 H 33333 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	AMES3.5-168 OA23 B22 C7 E23 F3 H 33333 V7 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F5 H 33333 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

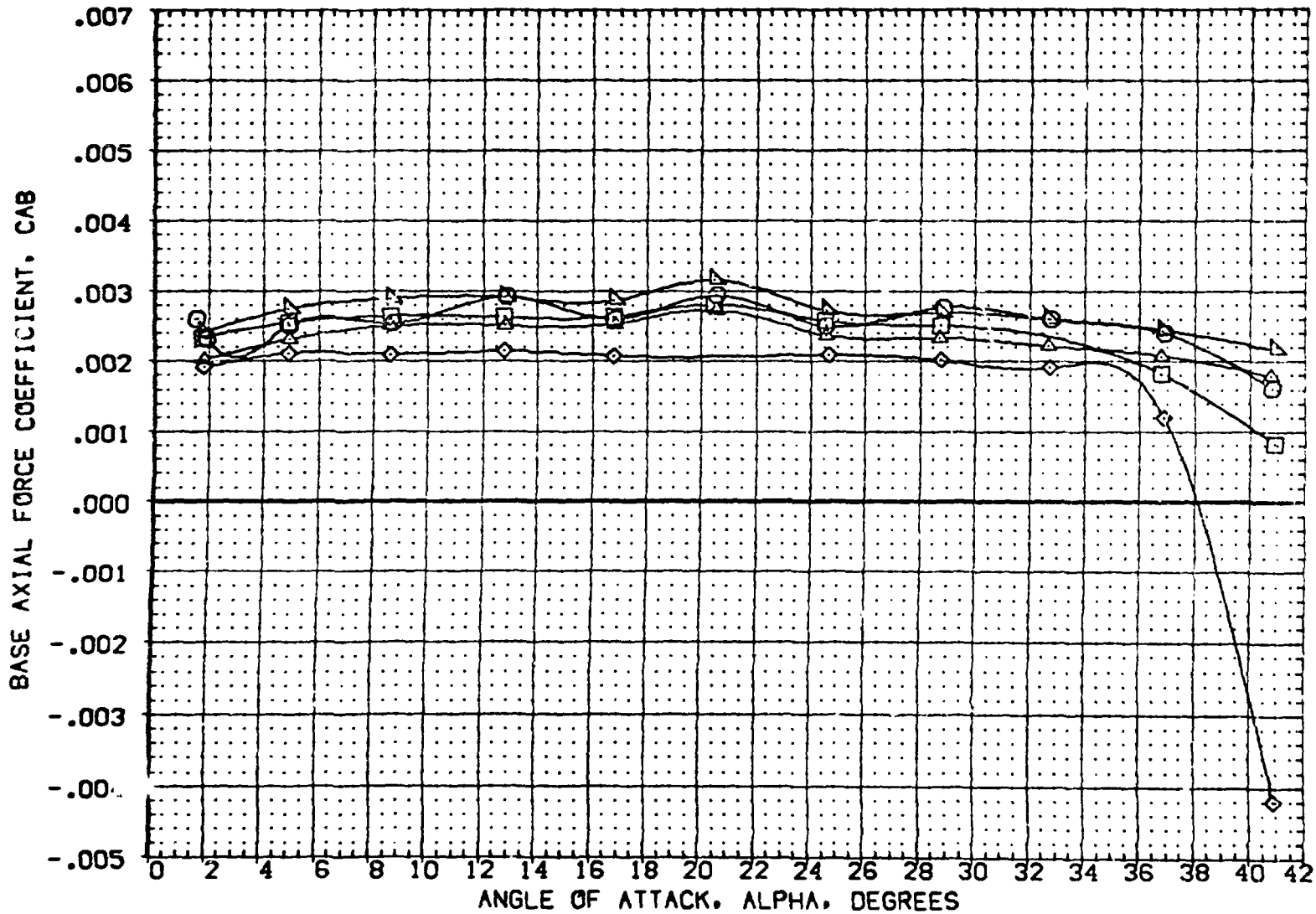


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	0.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

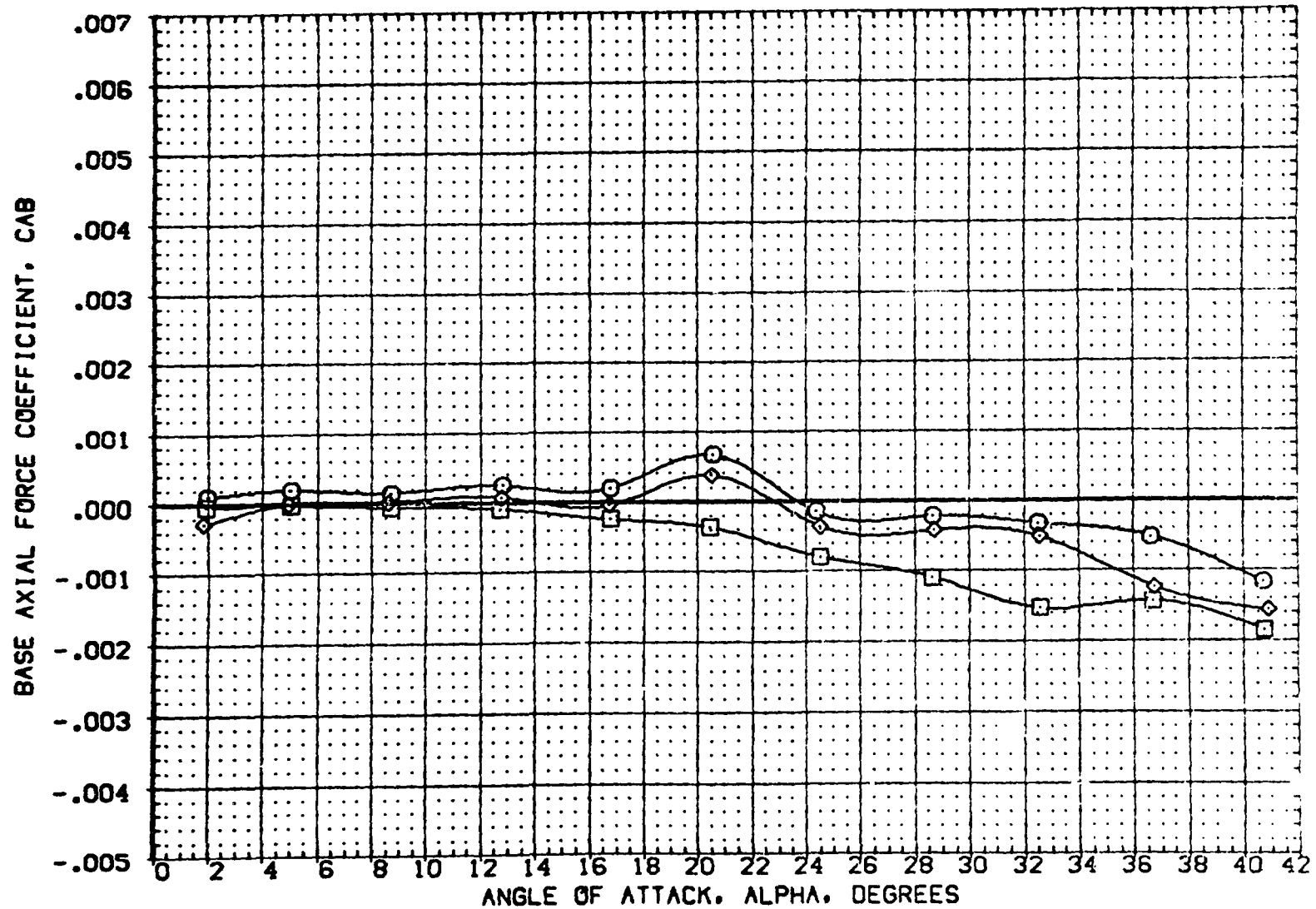
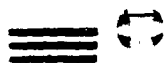


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	FLUTER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-13.750	55.750	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

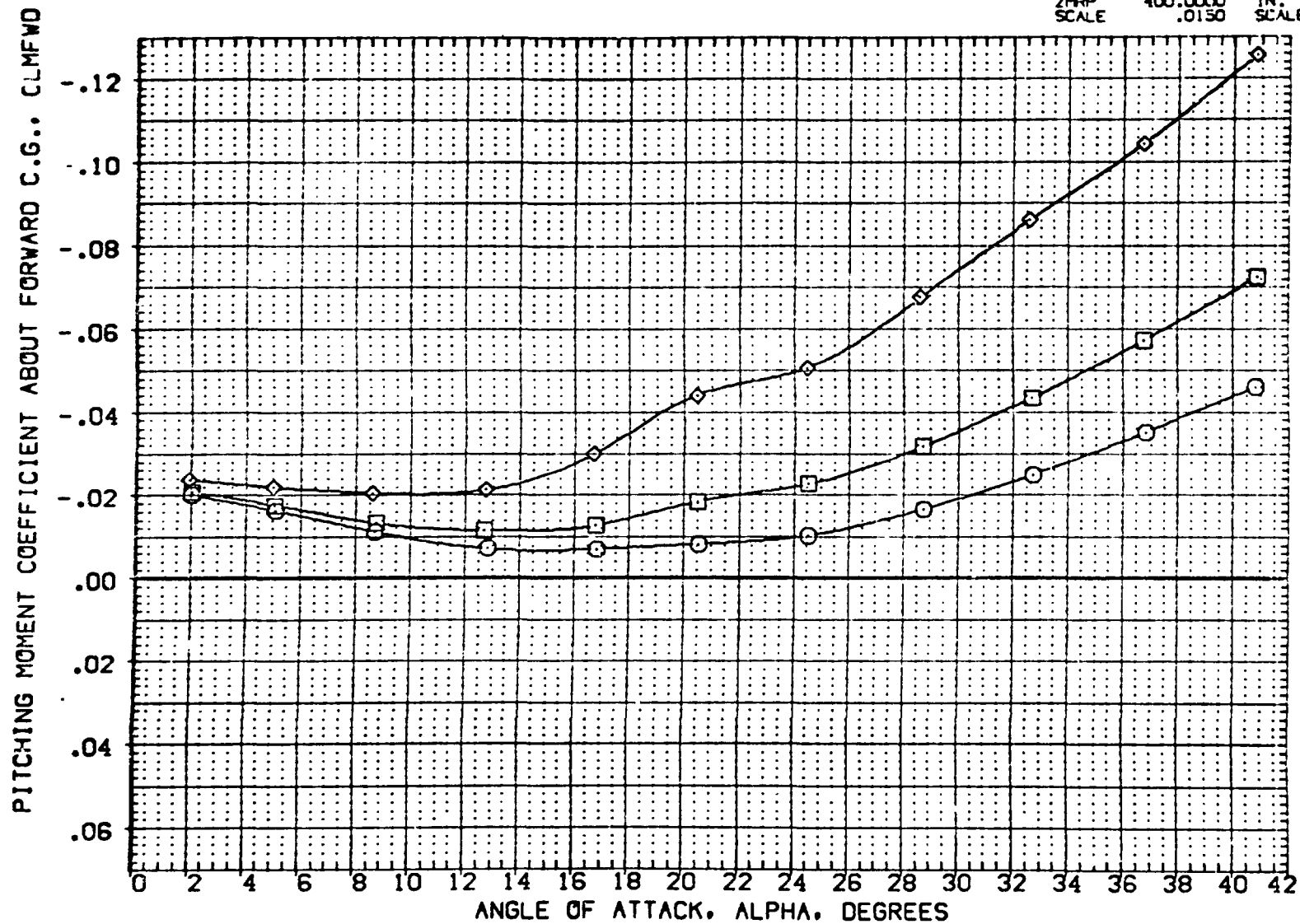


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C86001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 J3 K3 L3 M3 N3 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(C86007)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 J3 K3 L3 M3 N3 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(C86006)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 J3 K3 L3 M3 N3 V7 V107	.000	-13.750	55.000	.000	BREF 936.6900 IN.
(C86003)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 J3 K3 L3 M3 N3 V7 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C86006)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 J3 K3 L3 M3 N3 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0:50 SCALE

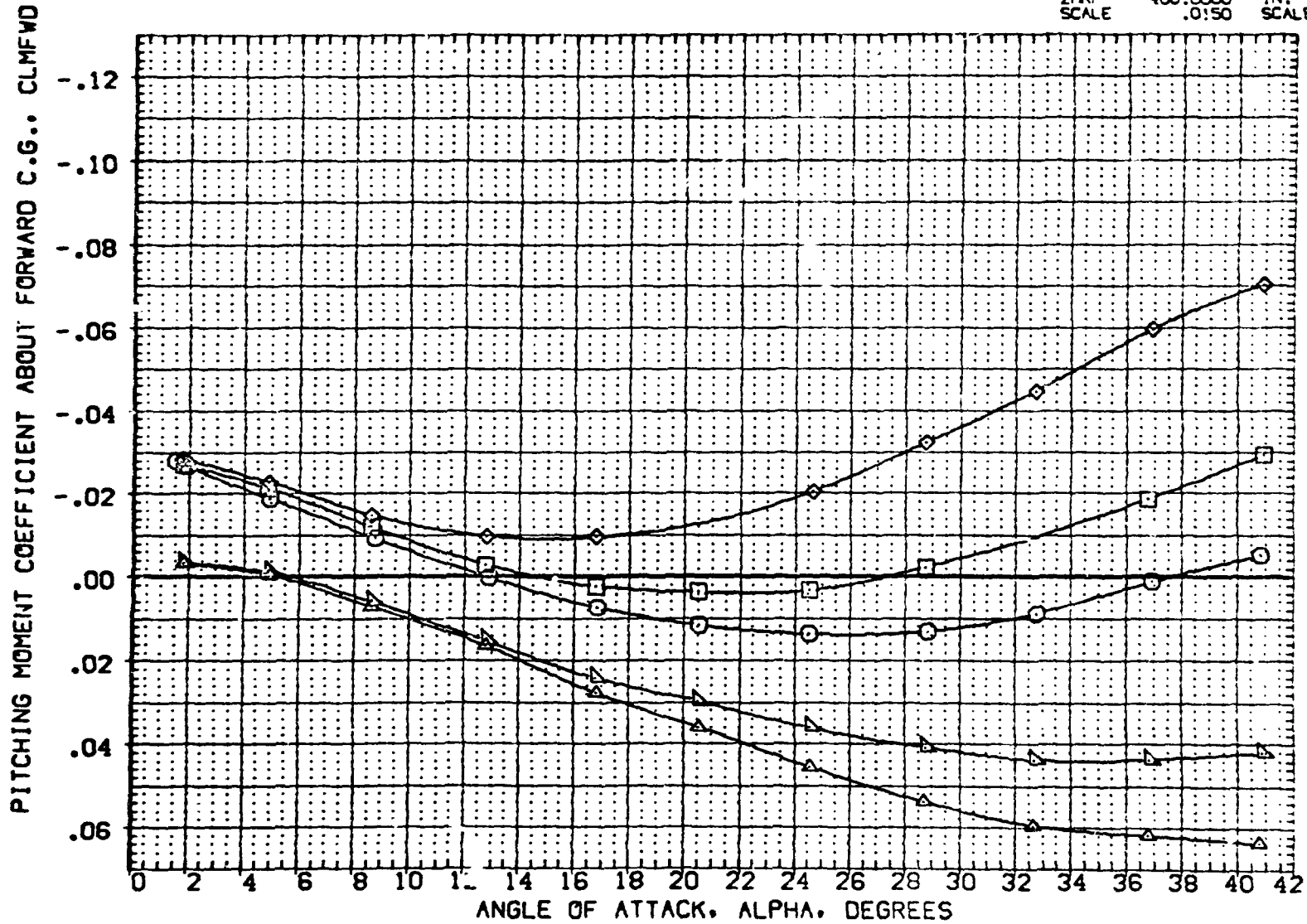


FIG. 5 BODY FLAP EFFECTS
 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(J86003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

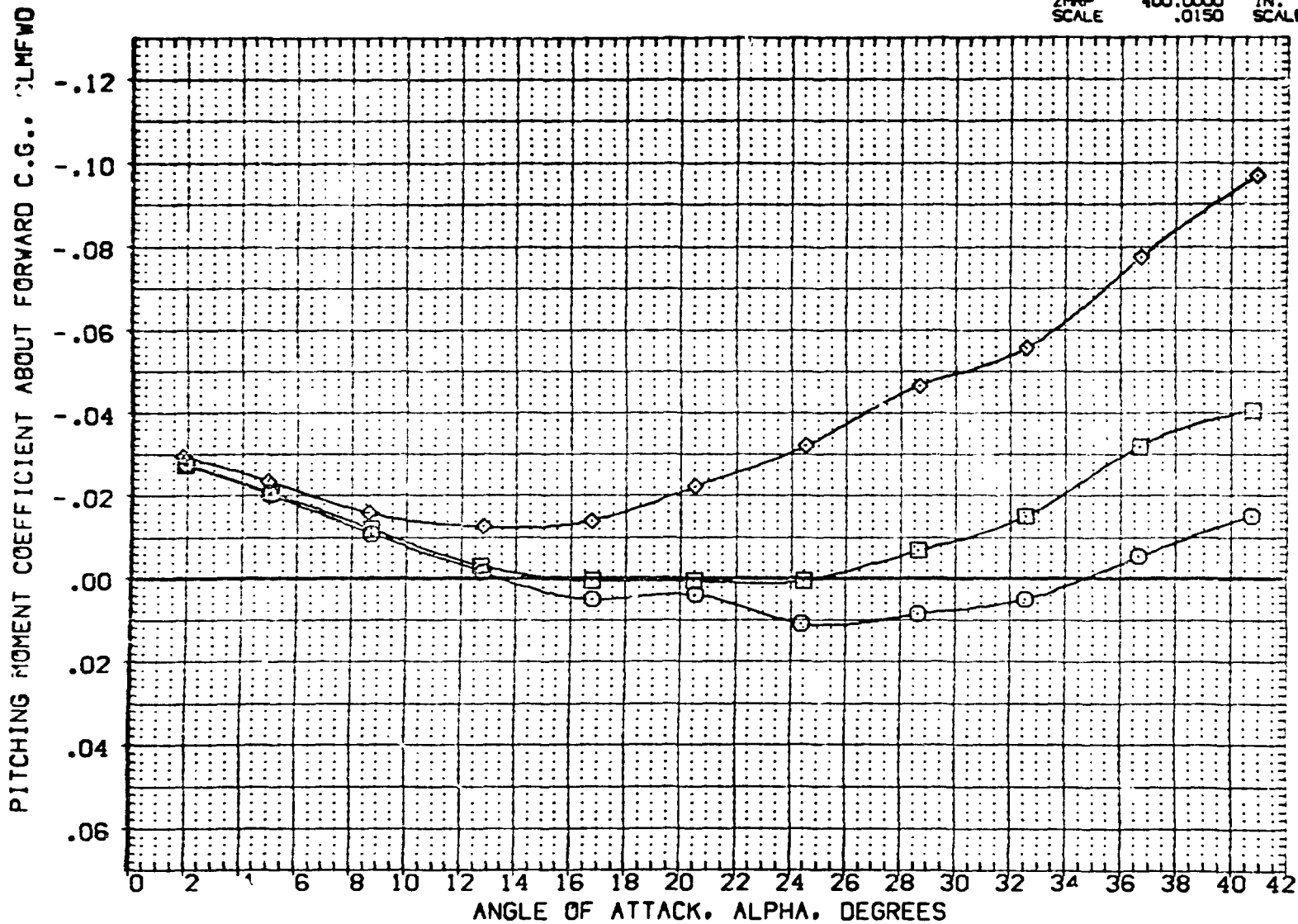


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R3 R6 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R3 R6 V7 V107	.000	13.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R3 R6 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

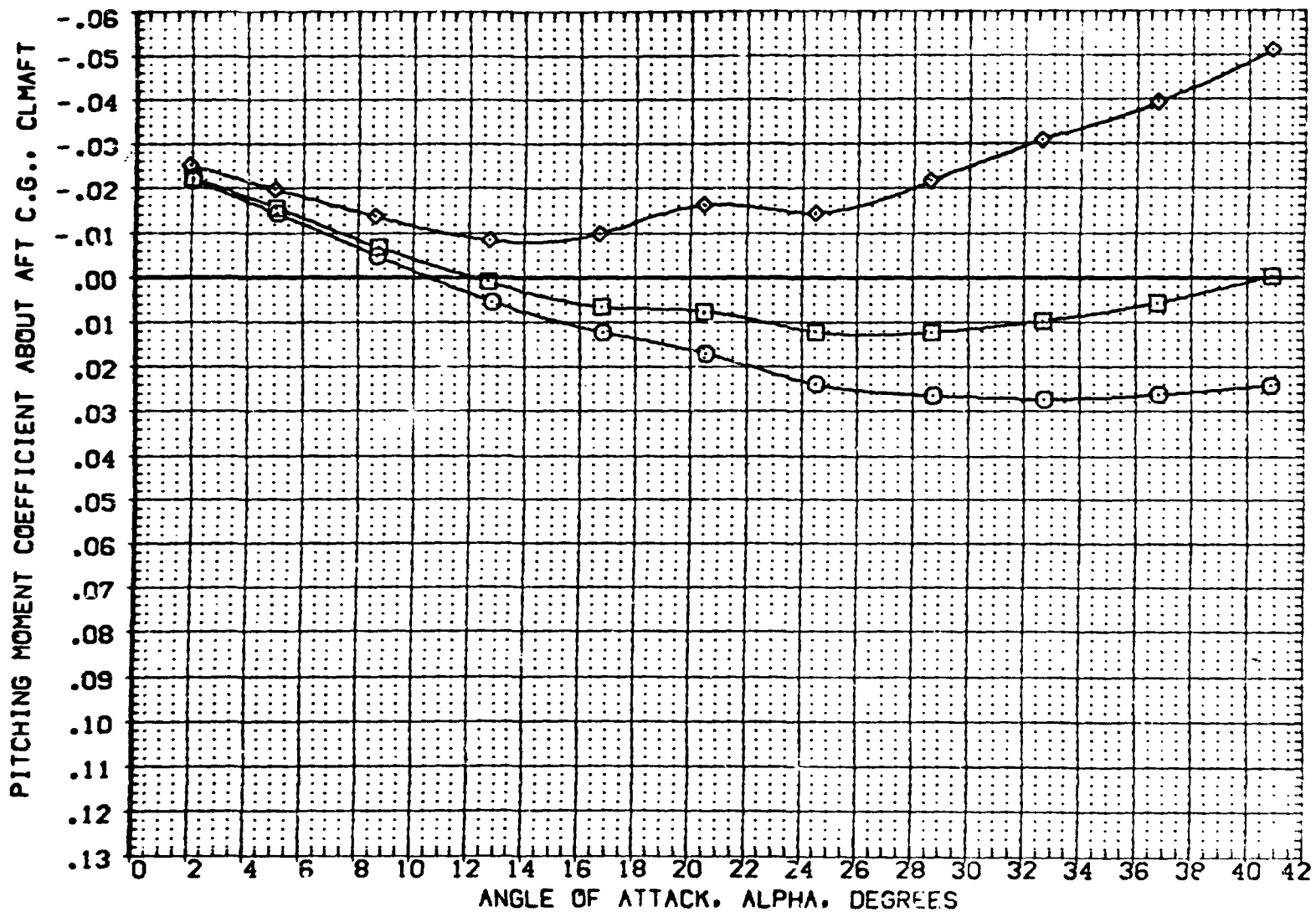


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

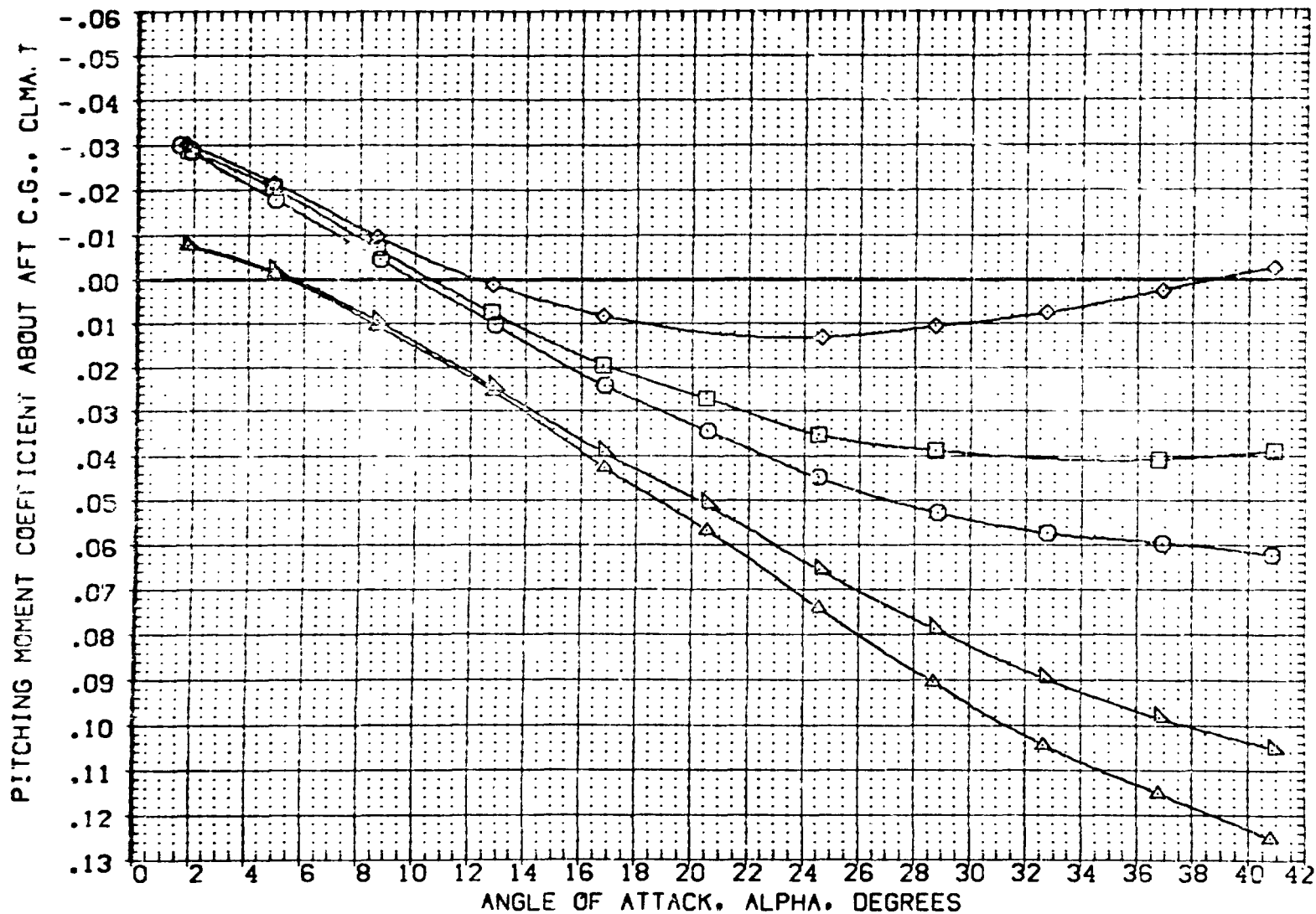


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(9)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	R_LOOER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 FS H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

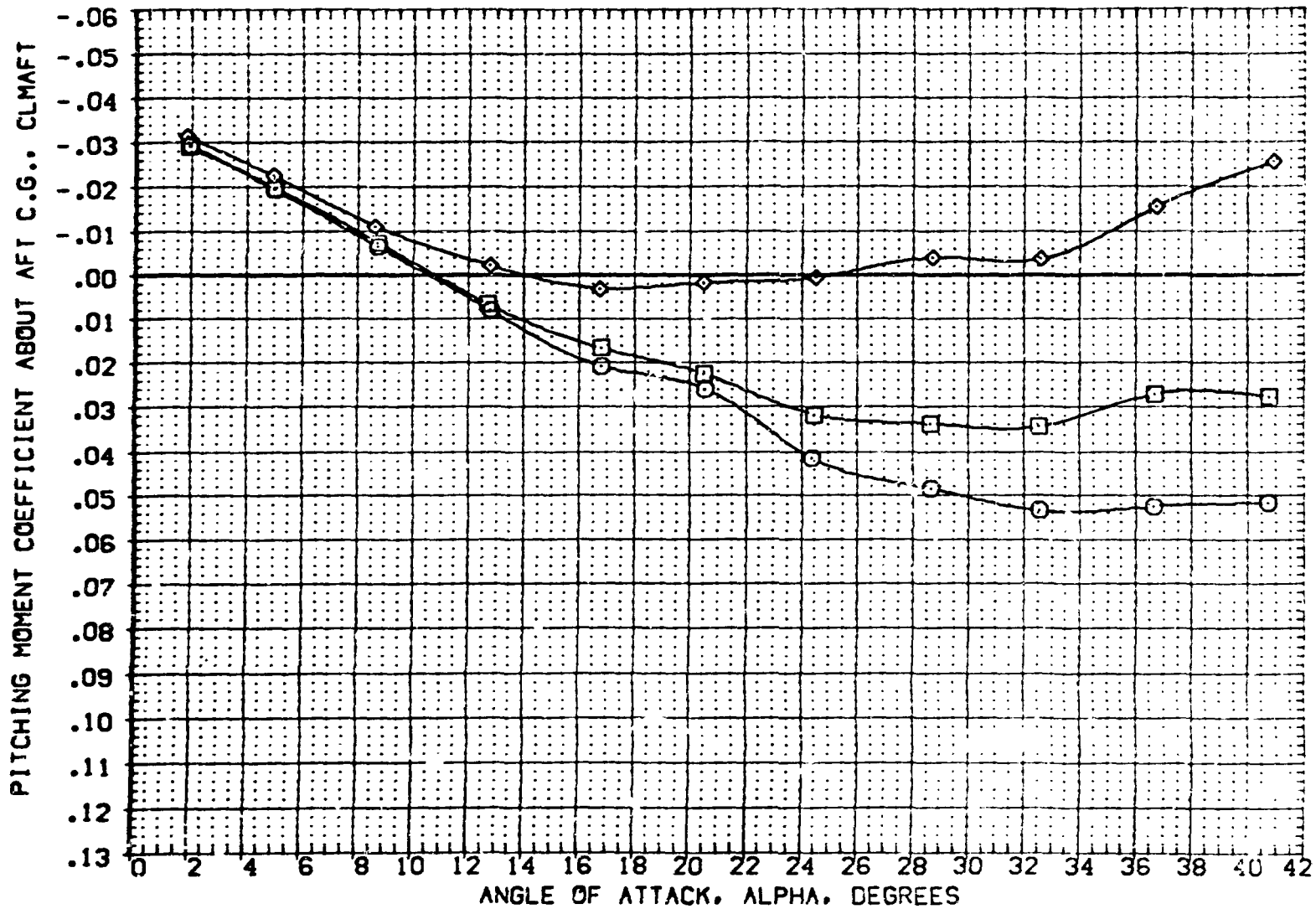


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.9-168 OA23 B22 07 F23 F33 F43 V5 V10	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(CB6007)	AMES3.9-168 OA23 B22 07 F23 F33 F43 V5 V10	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.9-168 OA23 B22 07 F23 F33 F43 V5 V10	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	DATA NOT AVAILABLE	-40.0000	-14.2500	55.0000	.0000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.0000	.0000	55.0000	.0000	YMRP 100.0000 IN.
						ZMRP SCALE .0150 SCALE

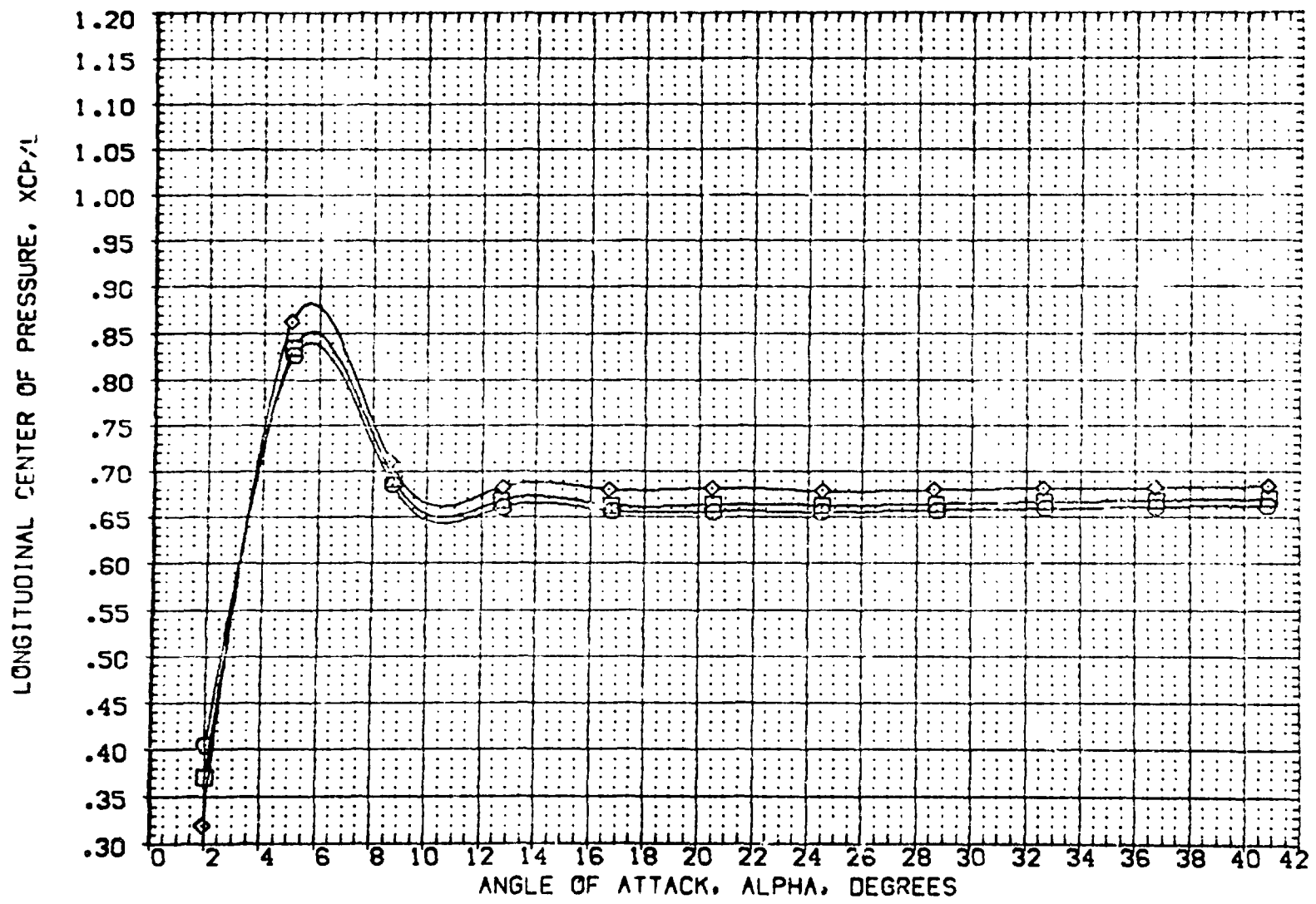


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26 PAGE 151

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 90.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 V107	-40.000	.000	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

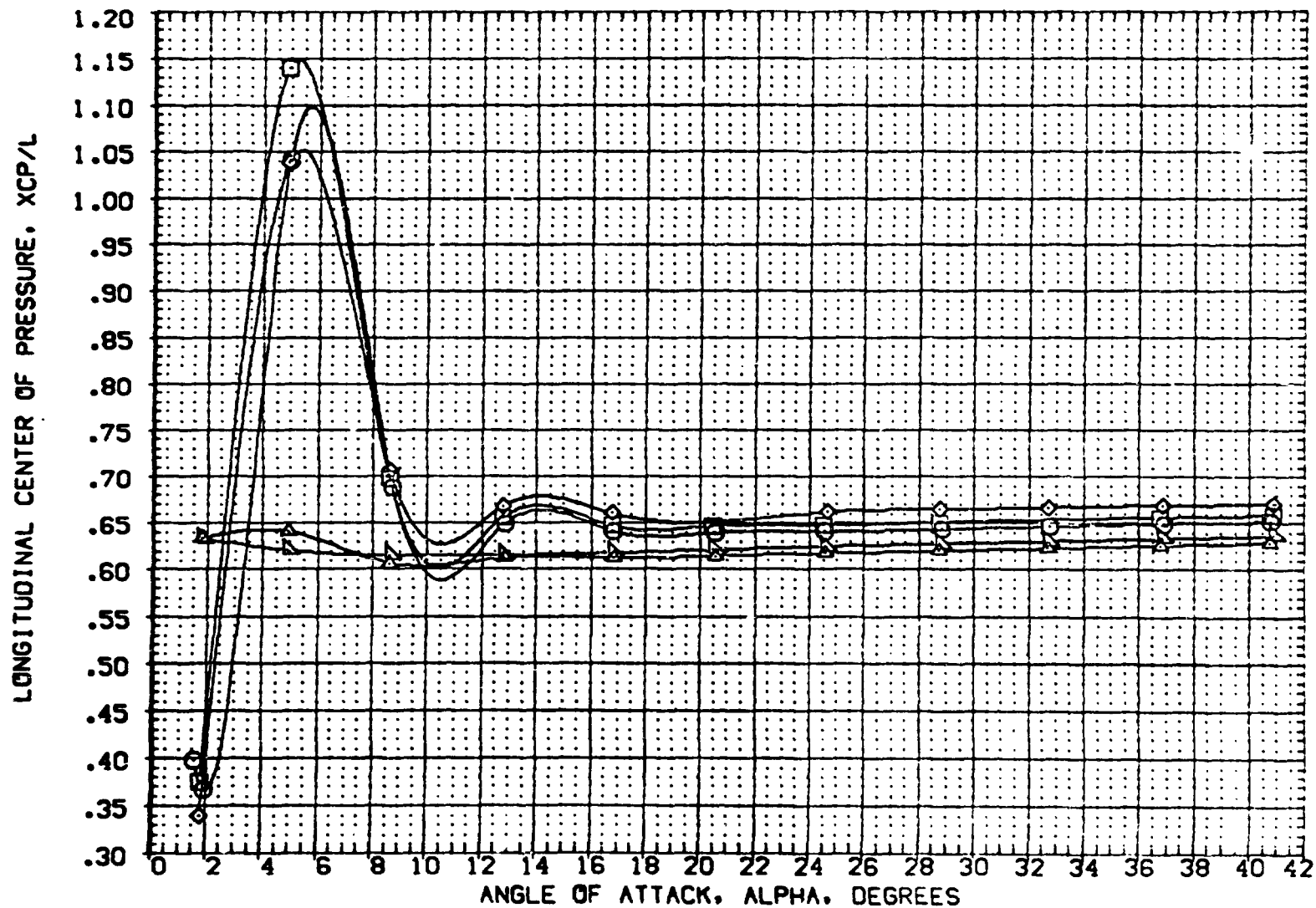


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R3B V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R3B V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R3B V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

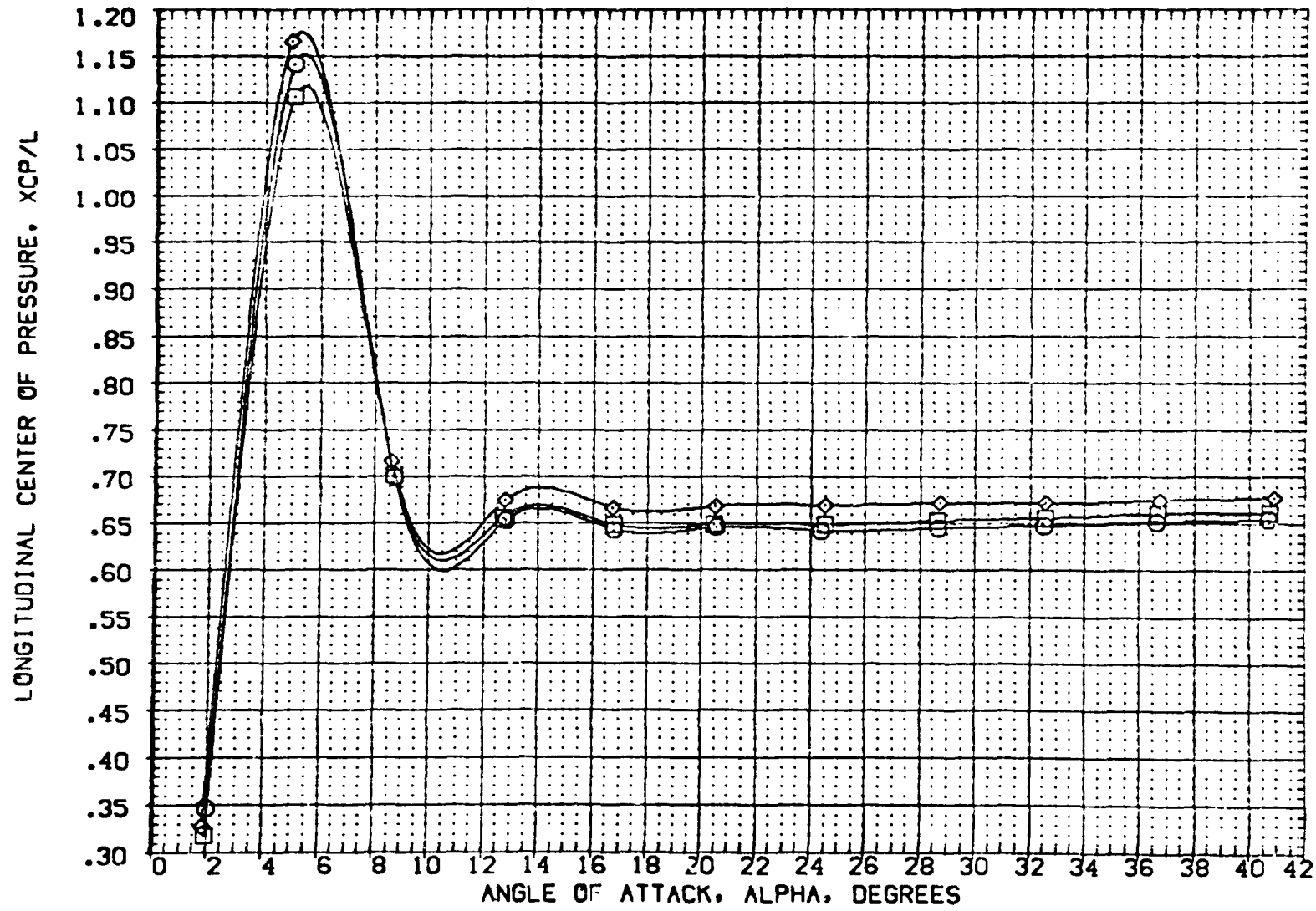


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
{BB6001}	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
{BB6007}	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
{BB6008}	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
{286003}	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
{BB6006}	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE



FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886001)	AMES3.5-168 OA23 822 7L E23 75 77 79 81 83 85 87 89 91 93 95 97 99	.0000	-14.2500	55.0000	.0000	SREF 2690.0000 SQ.FT.
(886007)	AMES3.5-168 OA23 822 7L E23 75 77 79 81 83 85 87 89 91 93 95 97 99	.0000	-14.2500	55.0000	.0000	LREF 474.8000 IN.
(806208)	AMES3.5-168 OA23 822 7L E23 75 77 79 81 83 85 87 89 91 93 95 97 99	.0000	-13.7500	55.0000	.0000	BREF 936.6800 IN.
(286003)	AMES3.5-168 OA23 822 7L E23 75 77 79 81 83 85 87 89 91 93 95 97 99	-46.0000	-14.2500	55.0000	.0000	XHRP 1076.4800 IN.
(886006)	AMES3.5-168 OA23 822 7L E23 75 77 79 81 83 85 87 89 91 93 95 97 99	-46.0000	.0000	55.0000	.0000	YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0150 SCALE

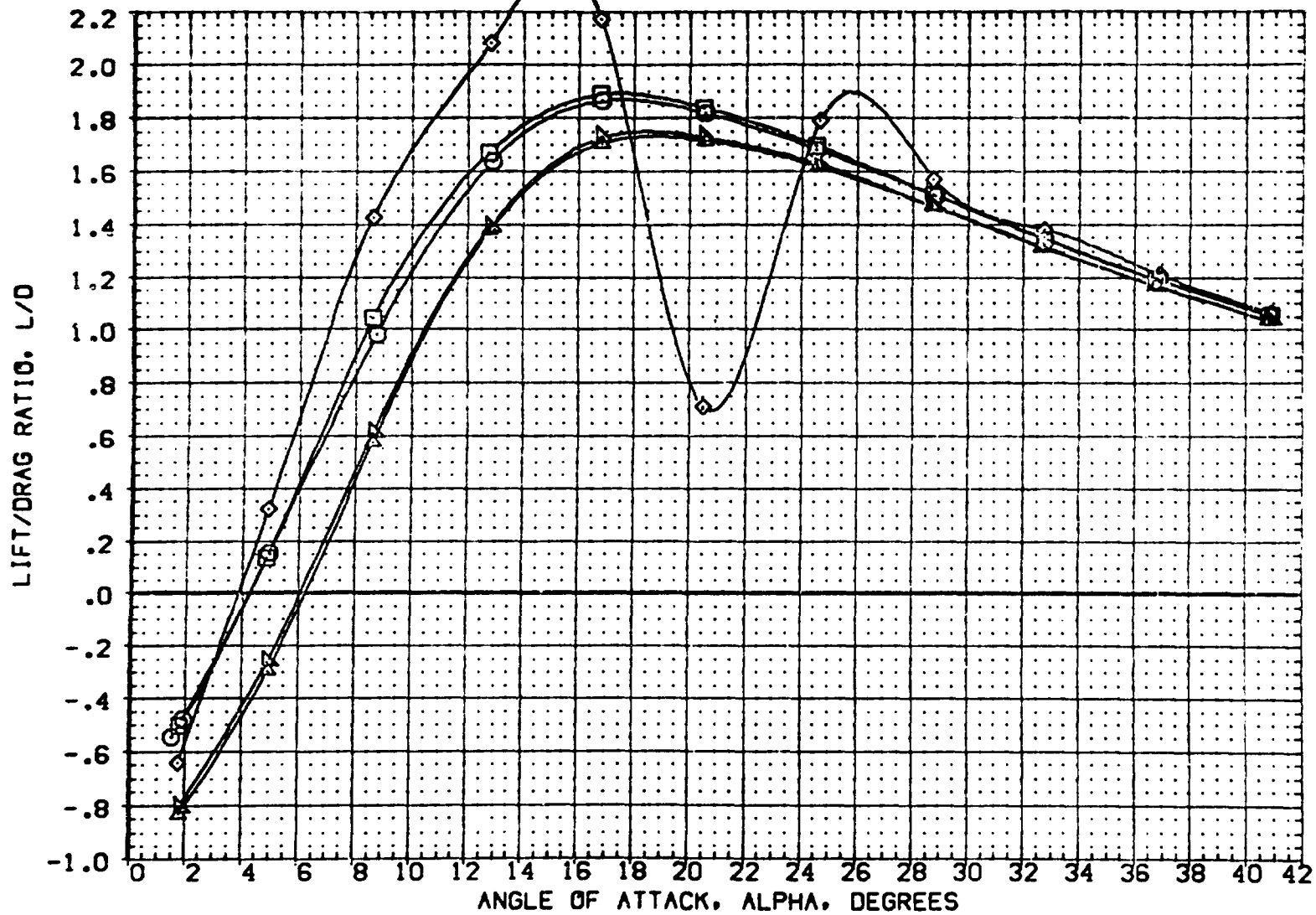


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(886001)	AMES3.5-168 CA23 822 07 E23 75 34 308 55 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(886007)	AMES3.5-168 CA23 822 07 E23 75 34 308 55 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(886008)	AMES3.5-168 CA23 822 07 E23 75 34 308 55 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(286003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(886006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

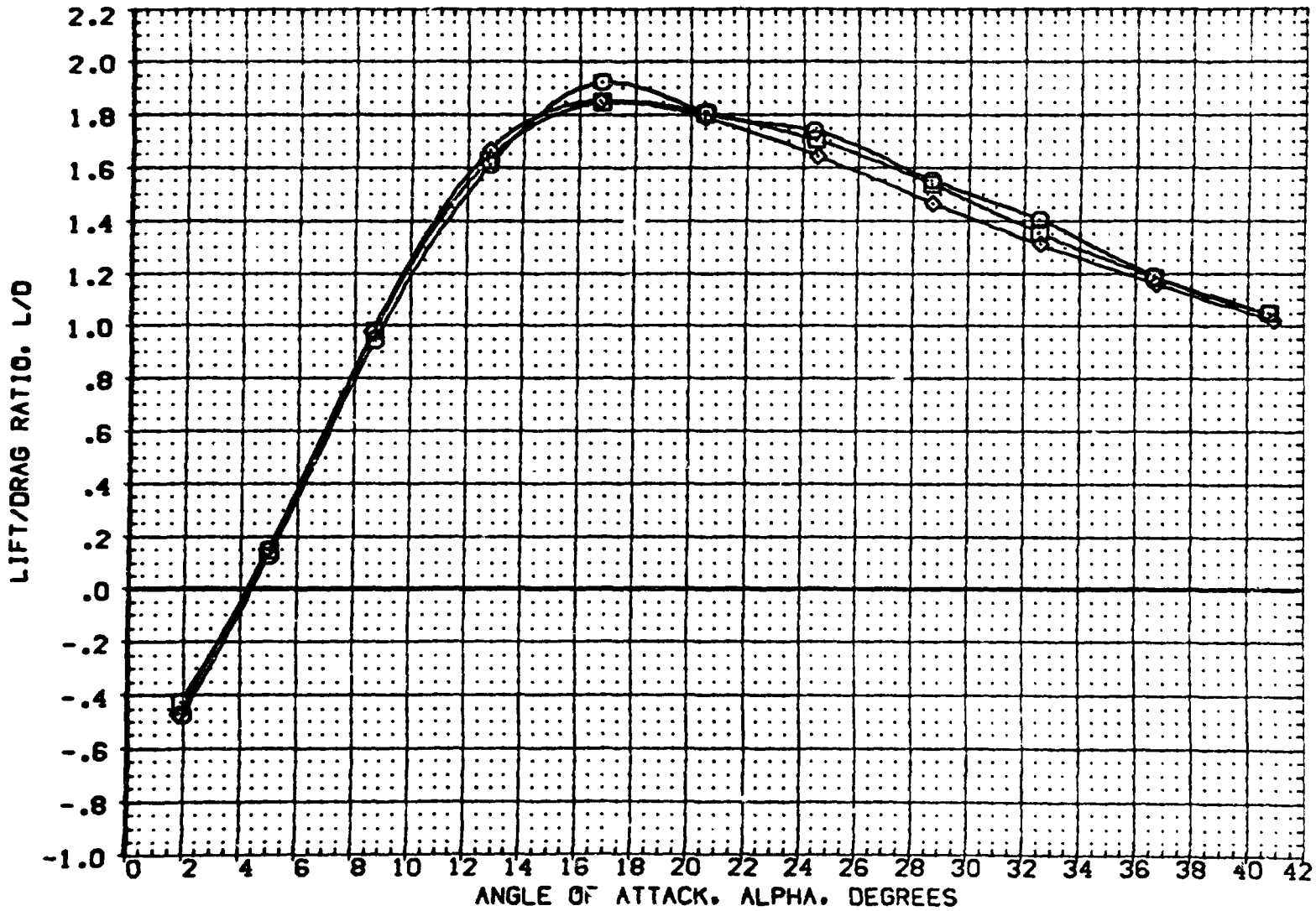


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RLODR	REFERENCE INFORMATION
(CB6001)	APES3.S-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CB6007)	APES3.S-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6008)	APES3.S-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

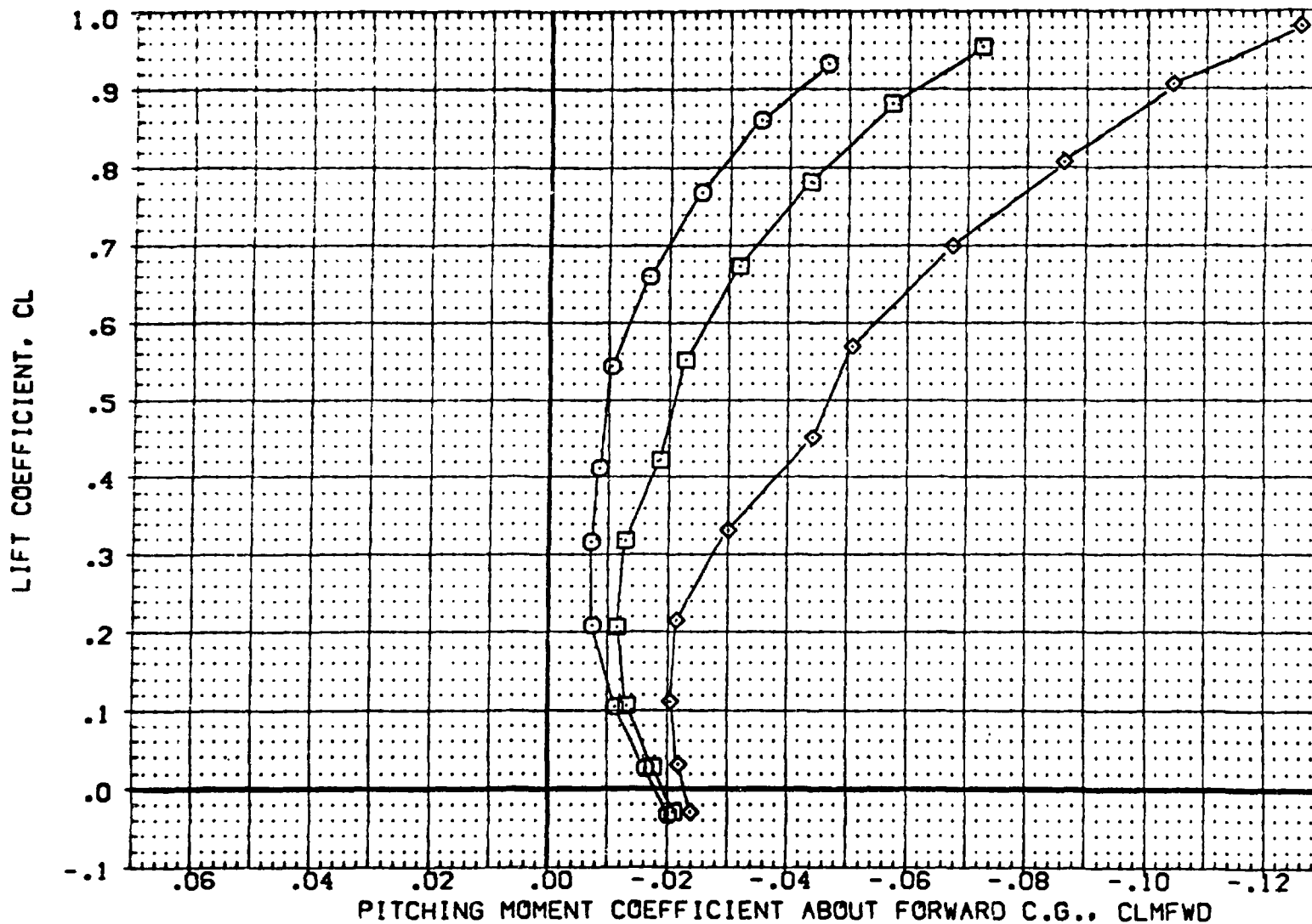


FIG. 5 BODY FLAP EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUCOER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V107	.000	-14.250	55.000	.000	LREF 474.6000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V107	.000	-13.750	55.000	.000	BREF 932.6800 IN.
(CB6003)	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V107	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 GA23 B22 C7 E23 F5 M4 R5 V107	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

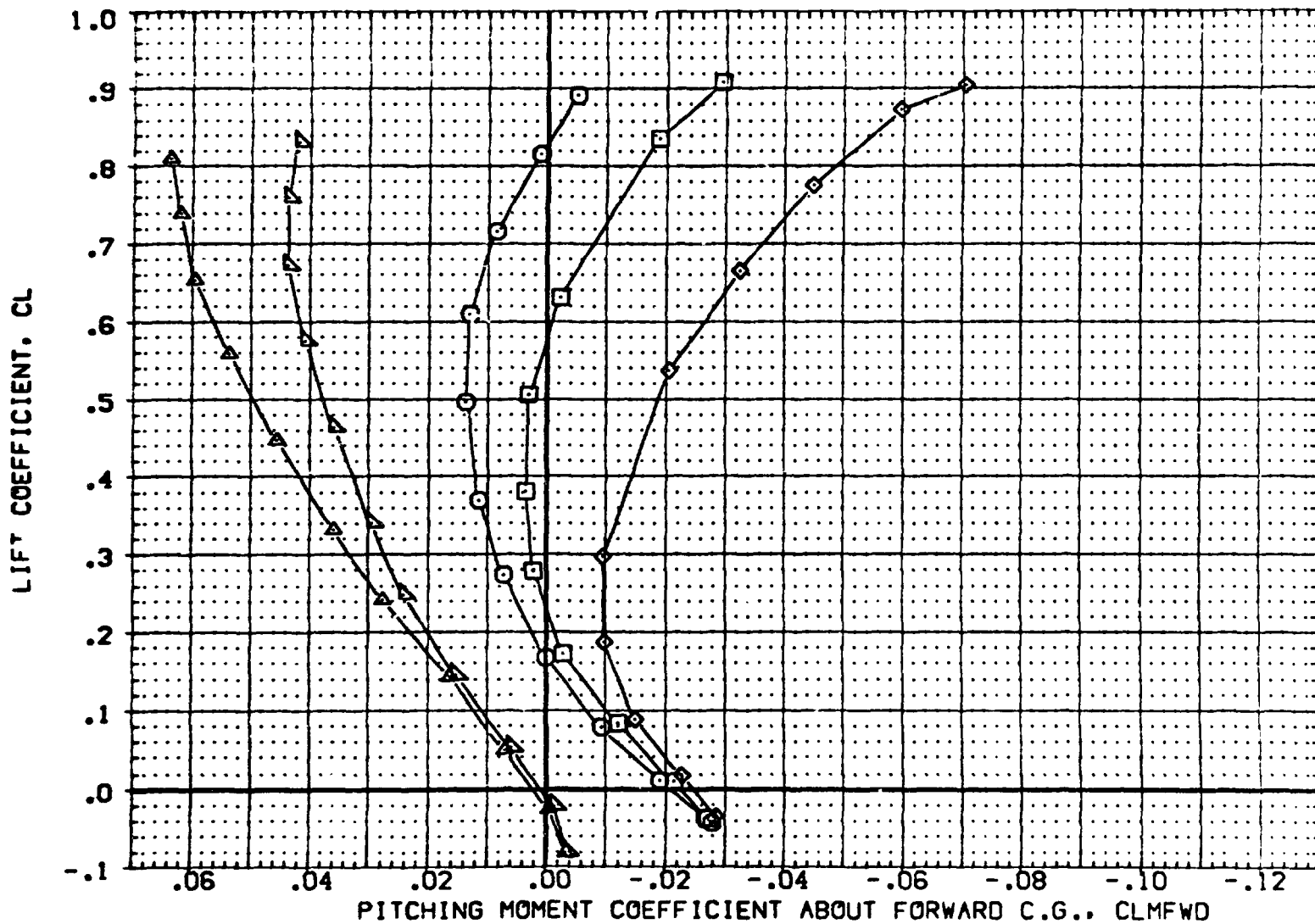


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(CB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

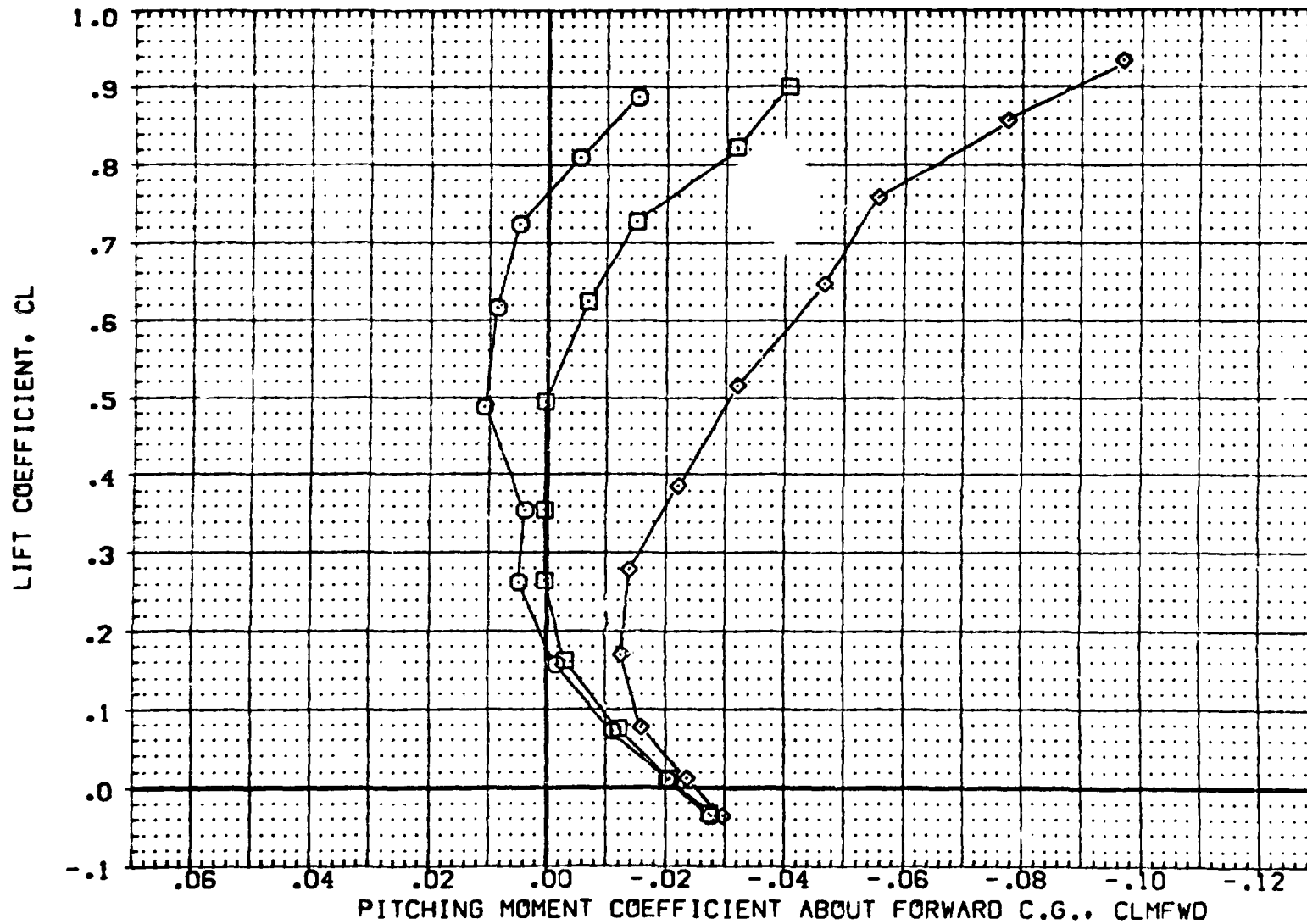


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 RA23 B22 C7 E23 FS M4 R5 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 JA23 B22 C7 E23 FS M4 R5 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

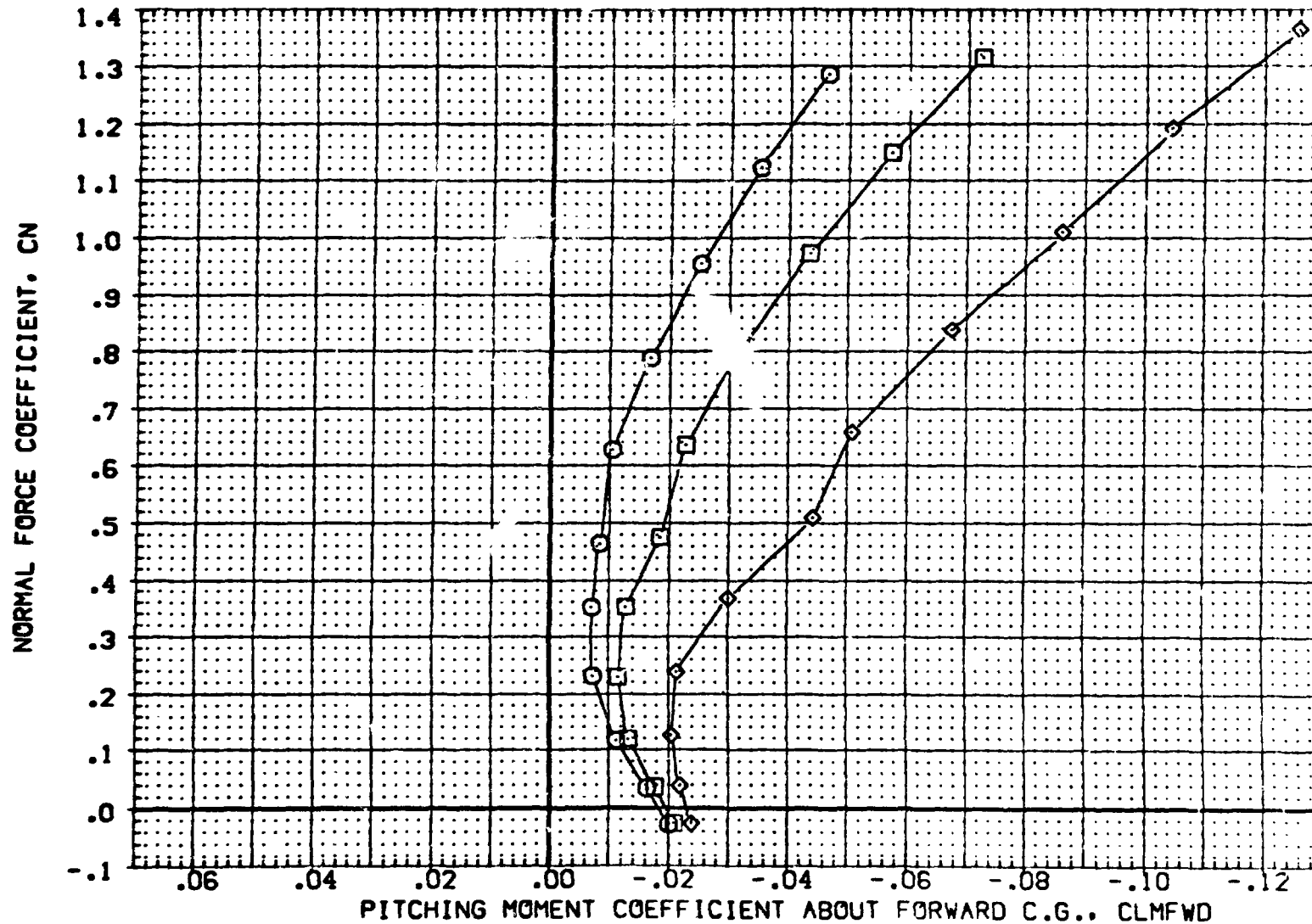


FIG. 5 BODY FLAP EFFECTS

1478 CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-188 OA23 B22 C7 E23 F5 H4 J3 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(CB6007)	AMES3.5-188 OA23 B22 C7 E23 F5 H4 J3 V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-188 OA23 B22 C7 E23 F5 H4 J3 V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	AMES3.5-188 OA23 B22 C7 E23 F5 H4 J3 V7 V107	-40.000	-14.250	55.000	.000	XTRP 1076.4800 IN.
(CB6006)	AMES3.5-188 OA23 B22 C7 E23 F5 H4 J3 V7 V107	-40.000	.000	55.000	.000	YTRP 1000.0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0150 SCALE

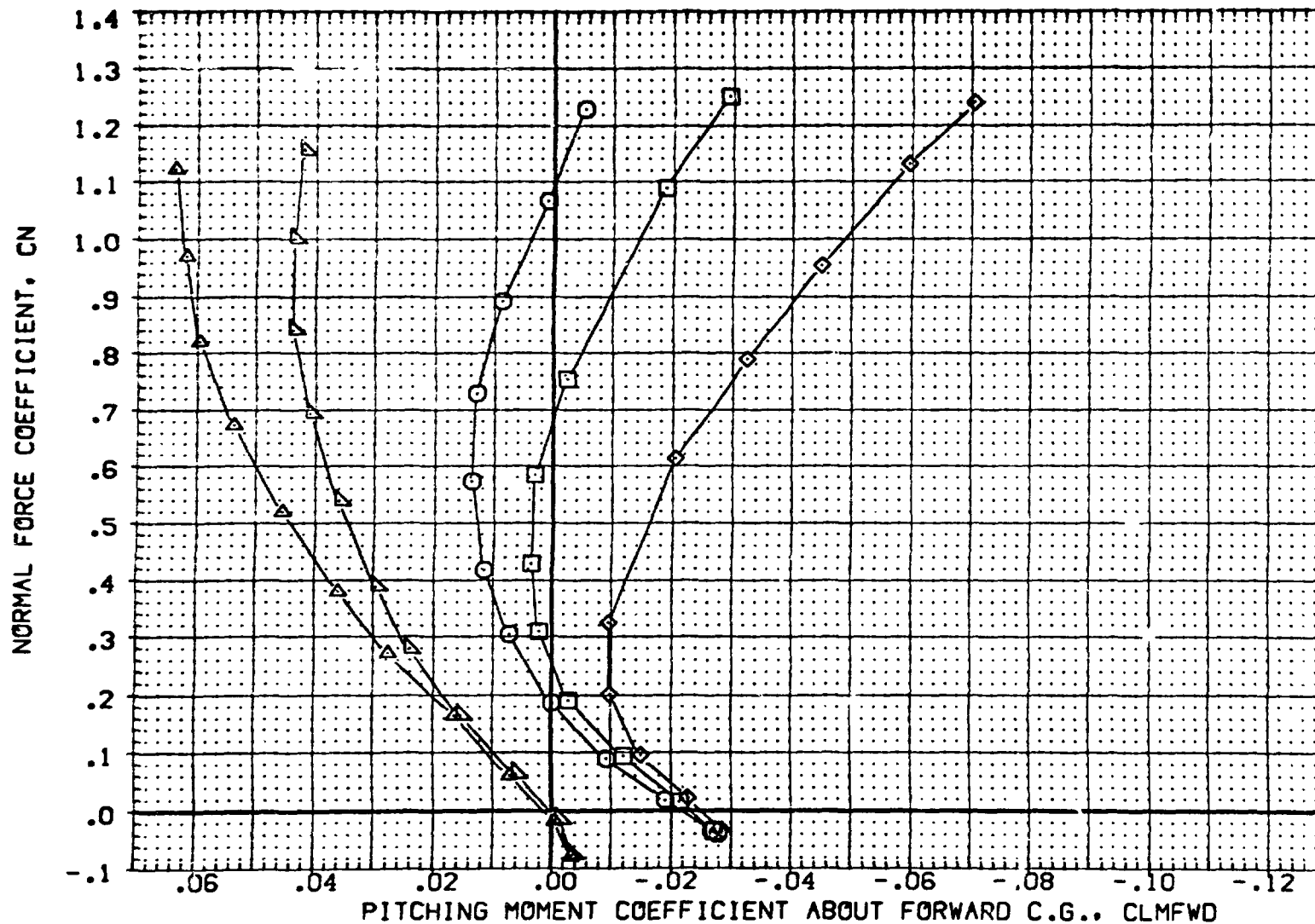


FIG. 5 BODY FLAP EFFECTS
 (B)MACH = 7.32
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 GA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6008)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	ZMRP .0000 IN.
						SCALE 400.0000 IN.
						SCALE .015C SCALE

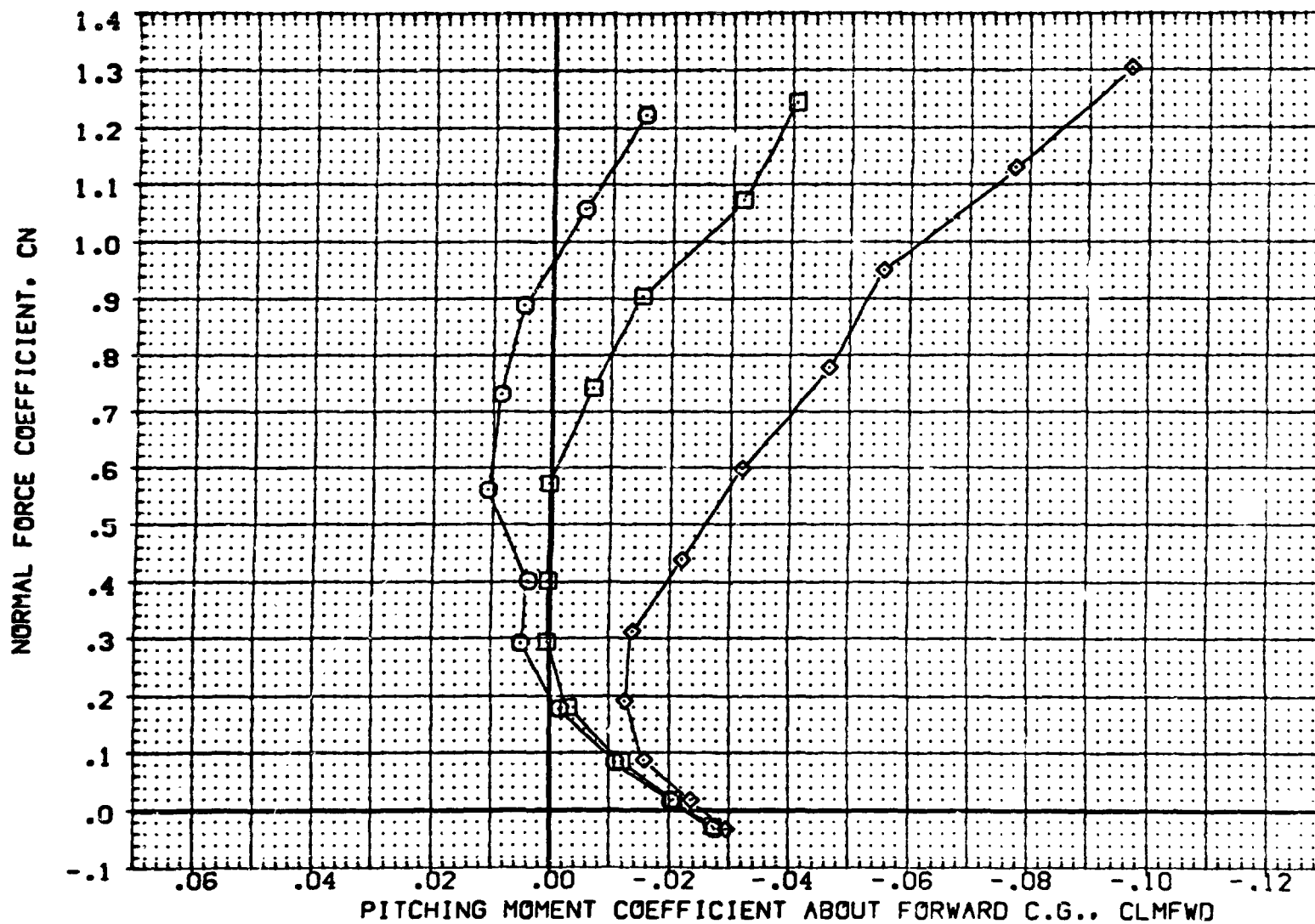


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP	1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

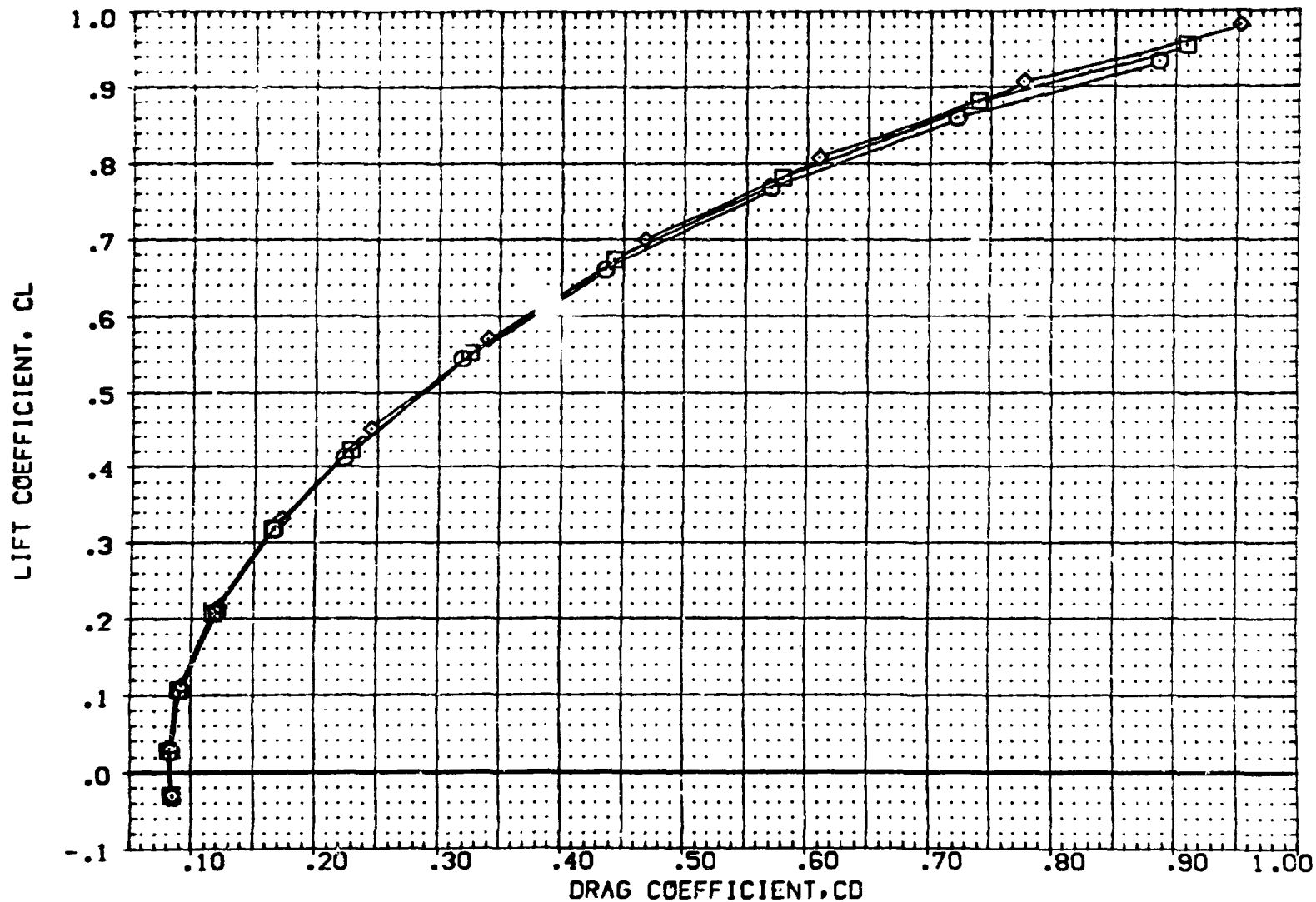


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(M)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 B22 C7 E23 F3 H H V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6007)	AMES3.5-168 OA23 B22 C7 E23 F3 H H V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6008)	AMES3.5-168 OA23 B22 C7 E23 F3 H H V7 V107	.000	-13.750	55.000	.000	BREF 936.6800 IN.
(J860)	AMES3.5-168 OA23 B22 C7 E23 F3 H H V7 V107	-14.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	AMES3.5-168 OA23 B22 C7 E23 F3 H H V7 V107	-14.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

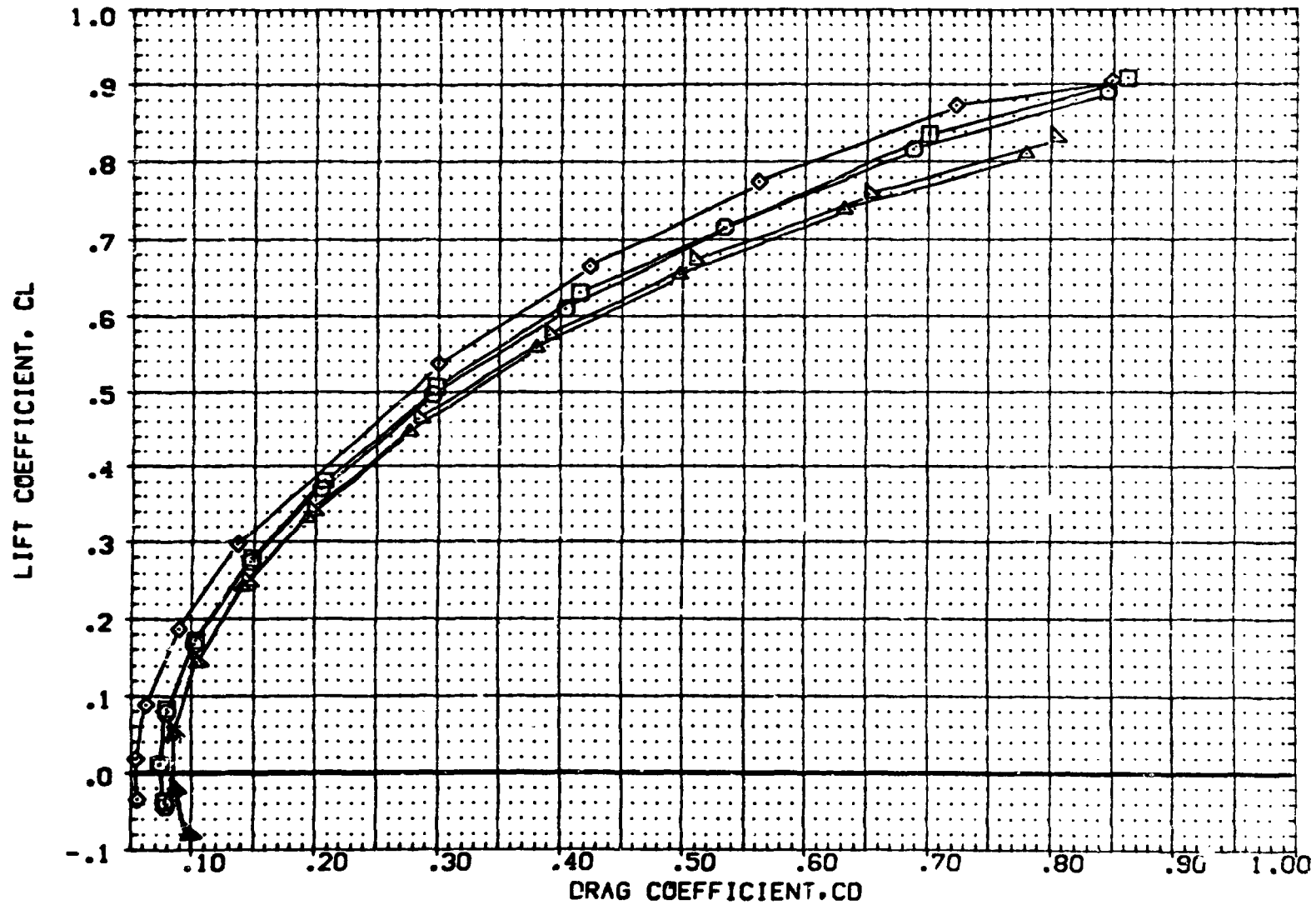


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	FLDDEF	REFERENCE INFORMATION
(CB6001)	AMES3.5-168 OA23 922 C7 E23 7375 34 308 57 V107	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(CB6007)	AMES3.5-168 OA23 922 C7 E23 7375 34 308 57 V107	.000	-14.250	55.000	.000	LREF 174.8000 IN.
(CB6008)	AMES3.5-168 OA23 922 C7 E23 7375 34 308 57 V107	.000	-14.250	55.000	.000	BREF 936.6800 IN.
(JB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6006)	DATA NOT AVAILABLE	-40.000	.000	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

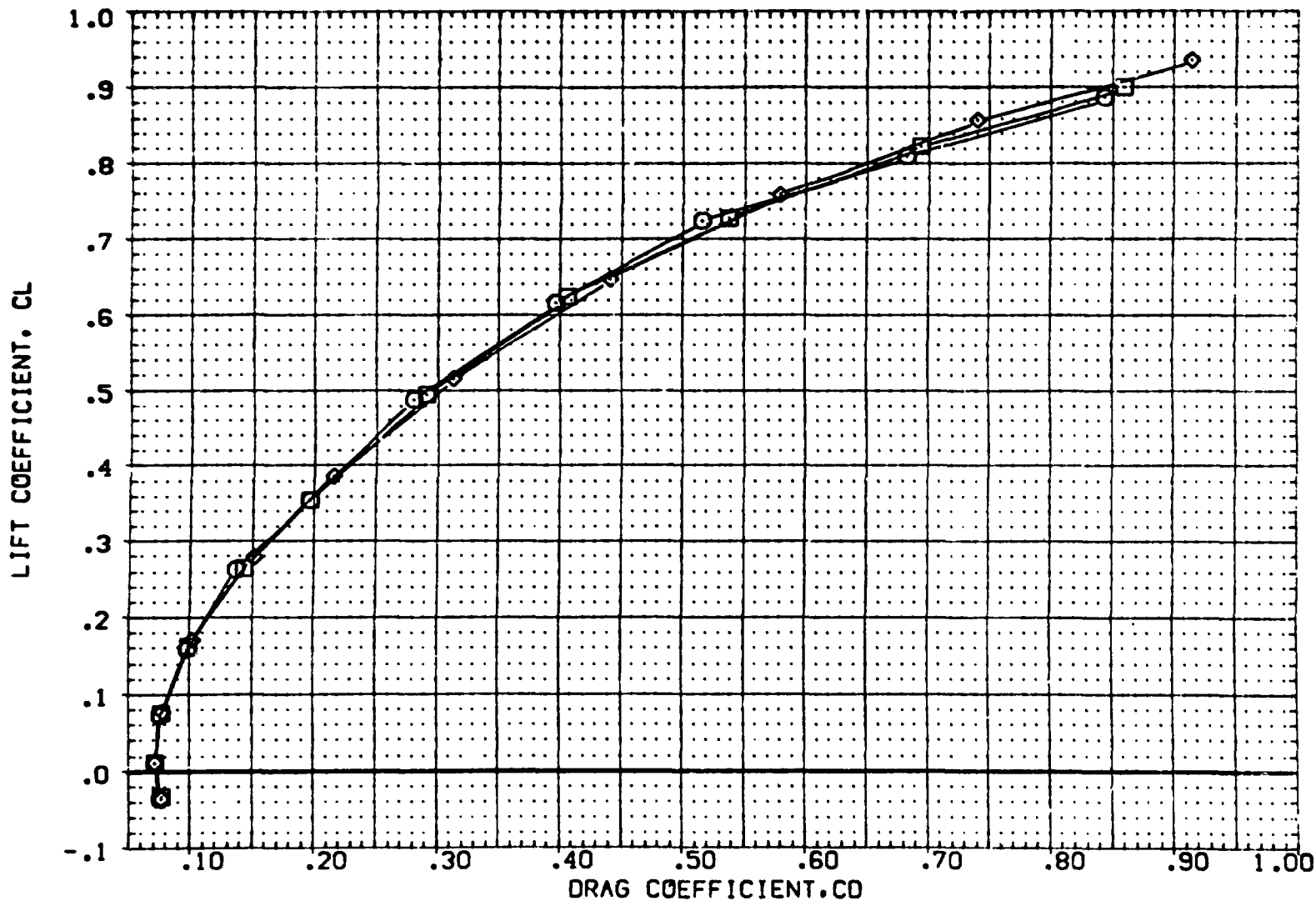


FIG. 5 BODY FLAP EFFECTS
 (C)MACH = 10.29
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 DA23 B22 C7 E23 F3 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 JO.FT.
(TB6008)	AMES3.5-168 DA23 B22 C7 E23 F3 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

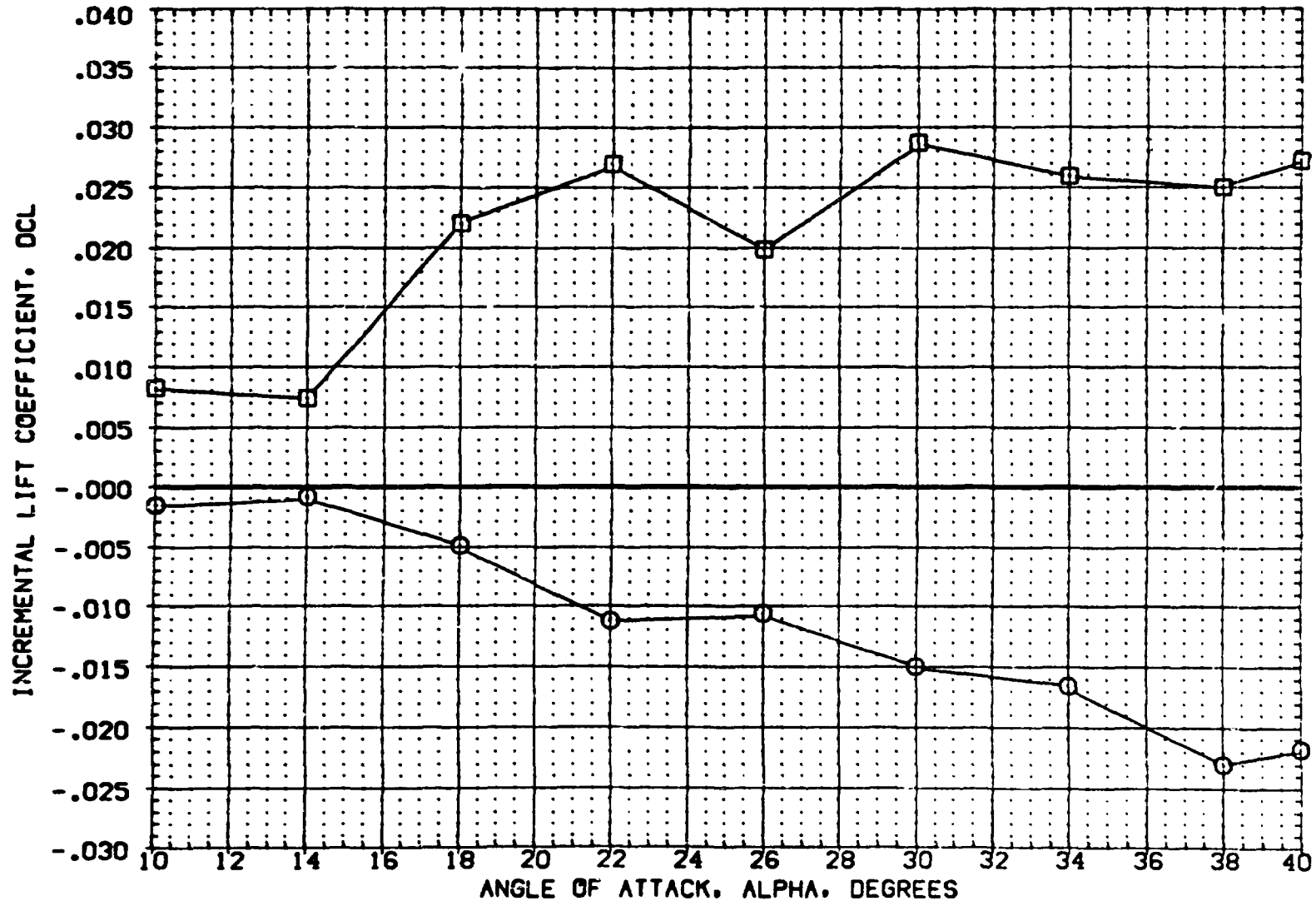


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	○ AMES3.5-168 GA23 B22 C7 E23 F3 H4 R3 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	◇ AMES3.5-168 GA23 B22 C7 E23 F3 H4 R3 V7 V107	.000	13.750	.000	LREF 474.8000 IN.	
(VB6003)	◇ AMES3.5-168 GA23 B22 C7 E23 F3 H4 R3 V7 V107	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

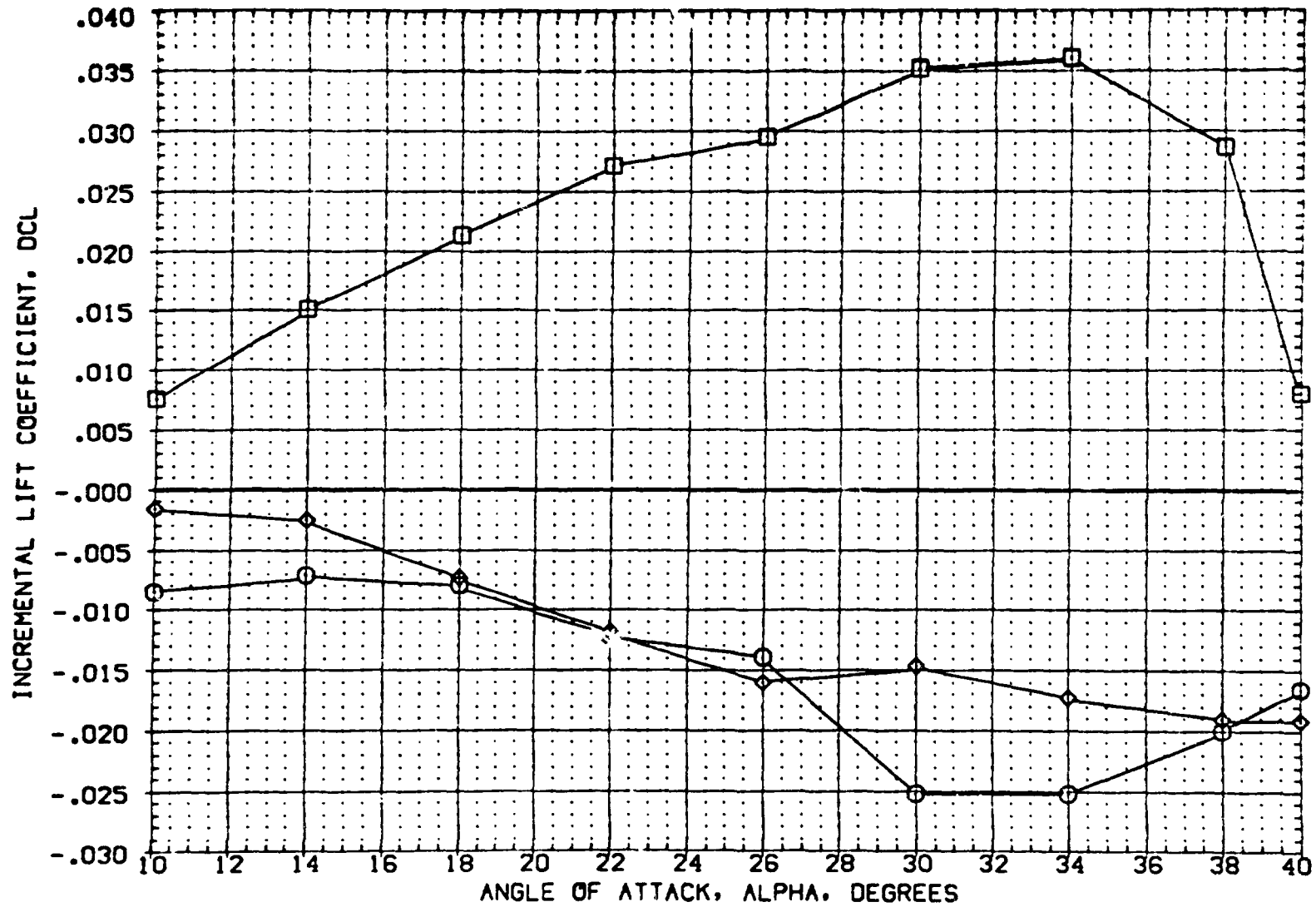


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDER	REFERENCE INFORMATION
(TB6001)	○ AMES3.5-168 0A23 B22 C7 E23 FS H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	□ AMES3.5-168 0A23 B22 C7 E23 FS H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	◇ DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	BREF 935.6800 IN.
						YMRP 1076.4800 IN.
						ZMRP 1000.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

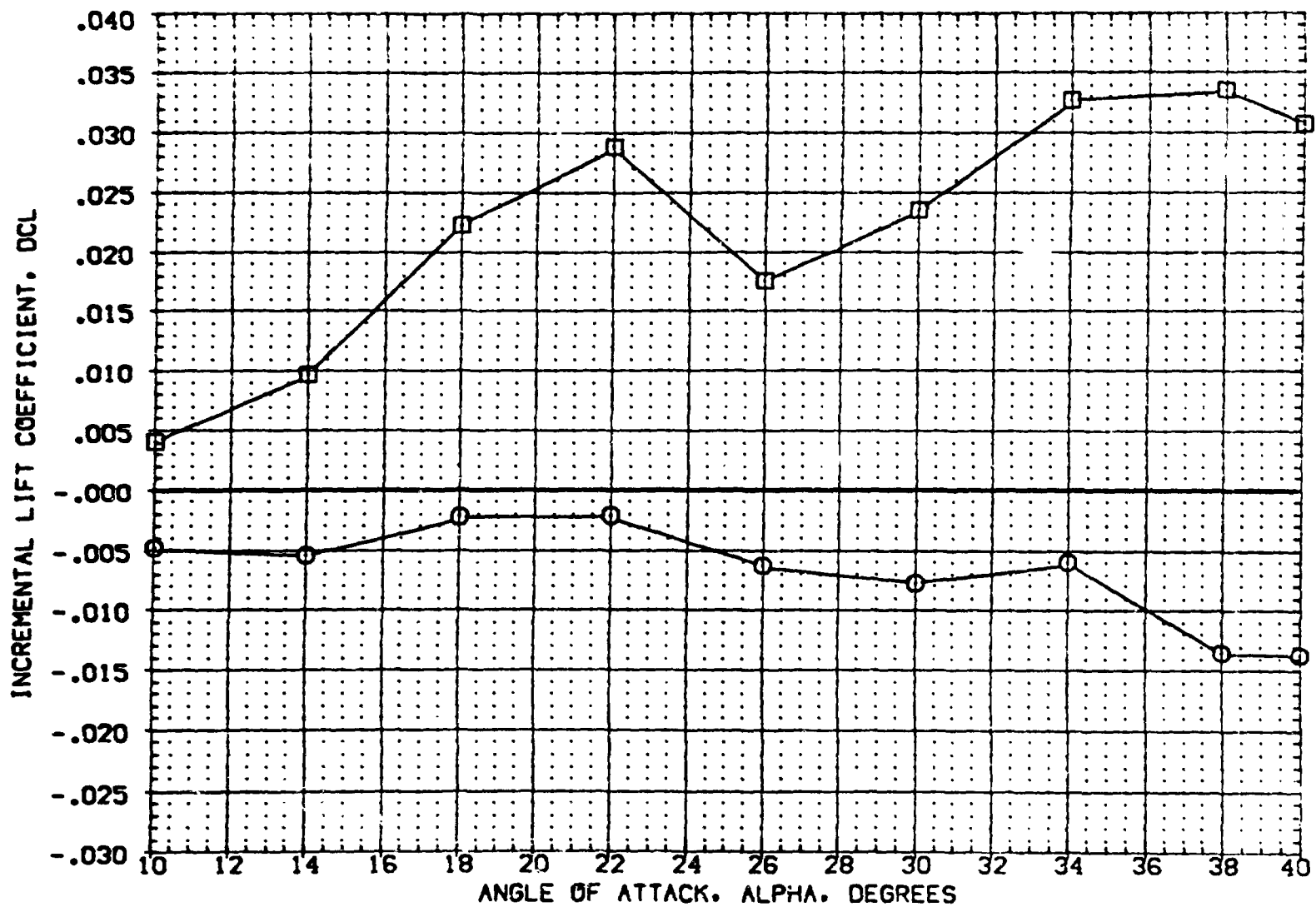


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

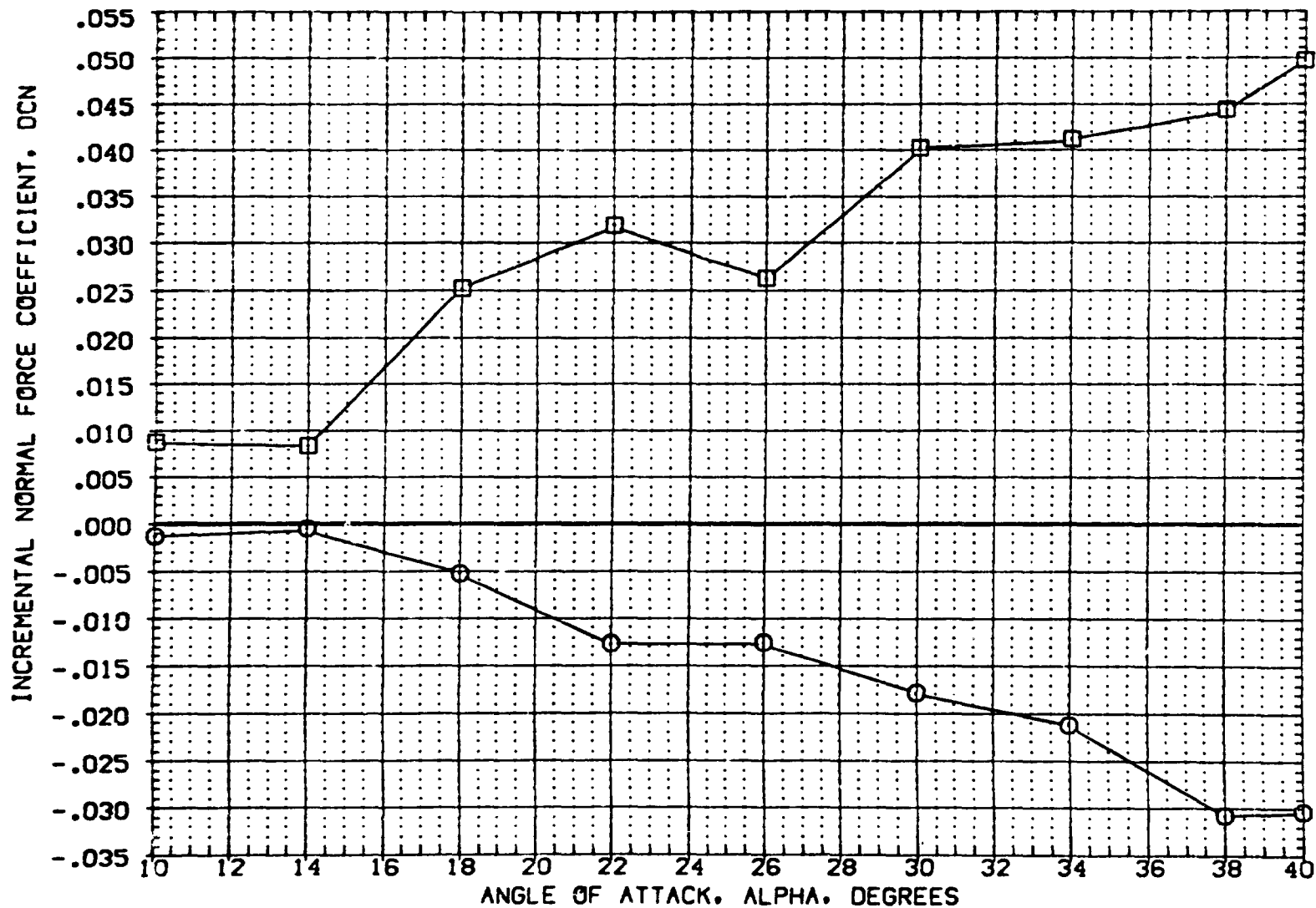


FIG. 5 BODY FLAP EFFECTS

1478 CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 0A23 B22 07 E23 F3 H 383 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6002)	AMES3.5-168 0A23 B22 07 E23 F3 H 383 V7 V107	.000	-13.750	55.000	.000	LREF 474.0000 IN.
(VB6003)	AMES3.5-168 0A23 B22 07 E23 F3 H 383 V7 V107	-10.000	-14.250	55.000	.000	CPREF 936.6000 IN.
						XREF 1076.4000 IN.
						YREF .0000 IN.
						ZREF 100.0000 IN.
						SCALE .0150 SCALE

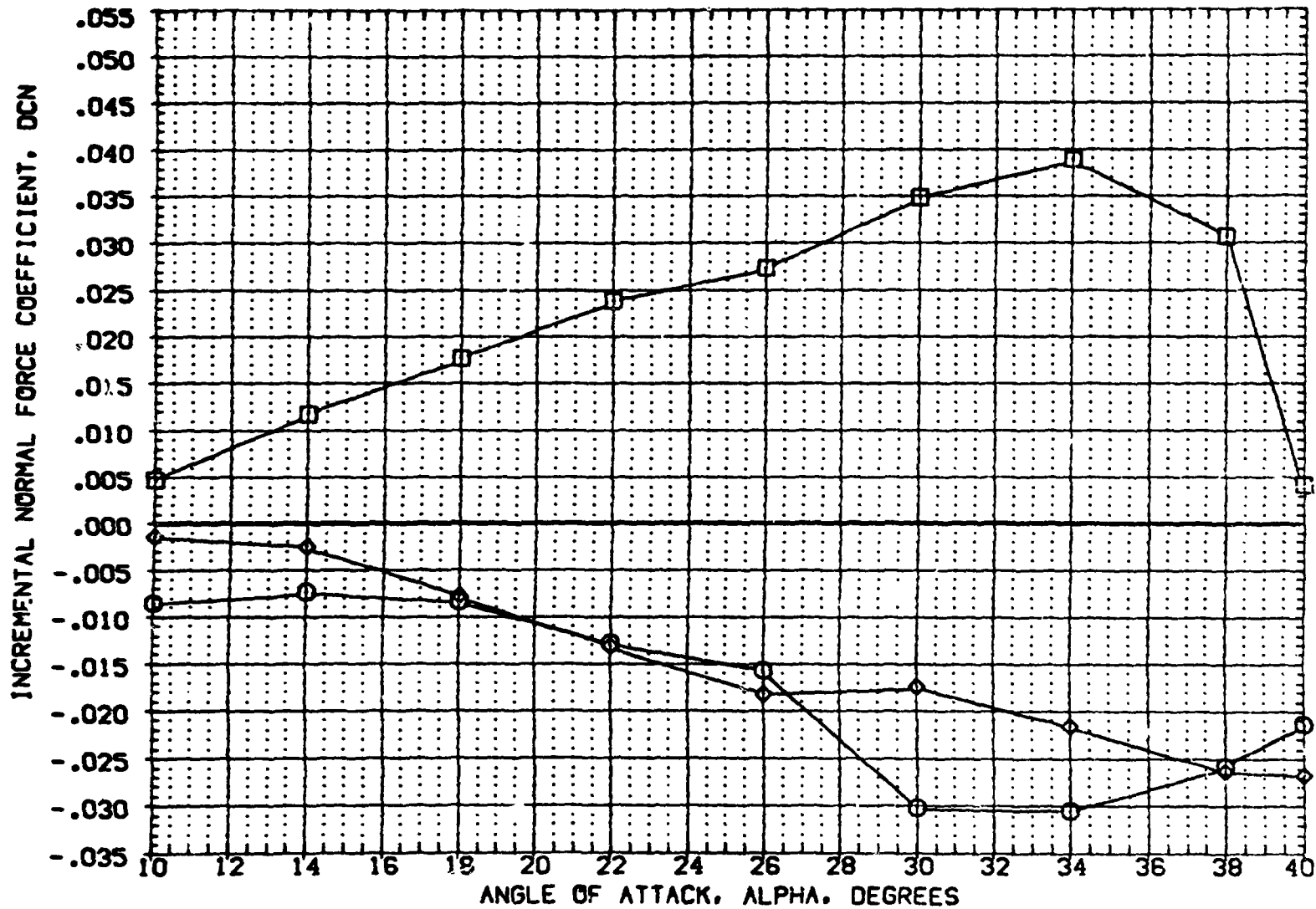


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	FLUDER	REFERENCE INFORMATION
(T86001)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86008)	APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

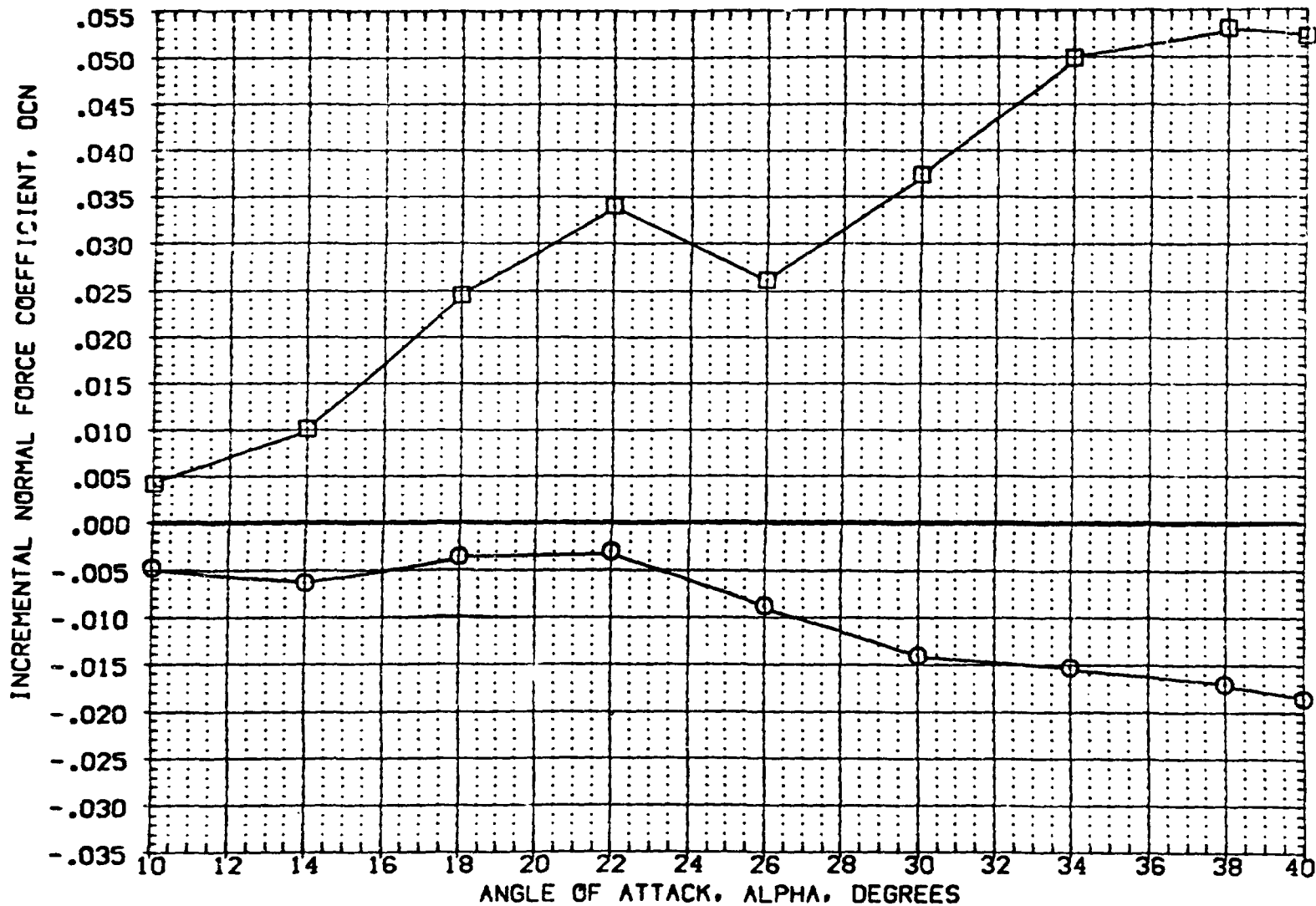


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(T86008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

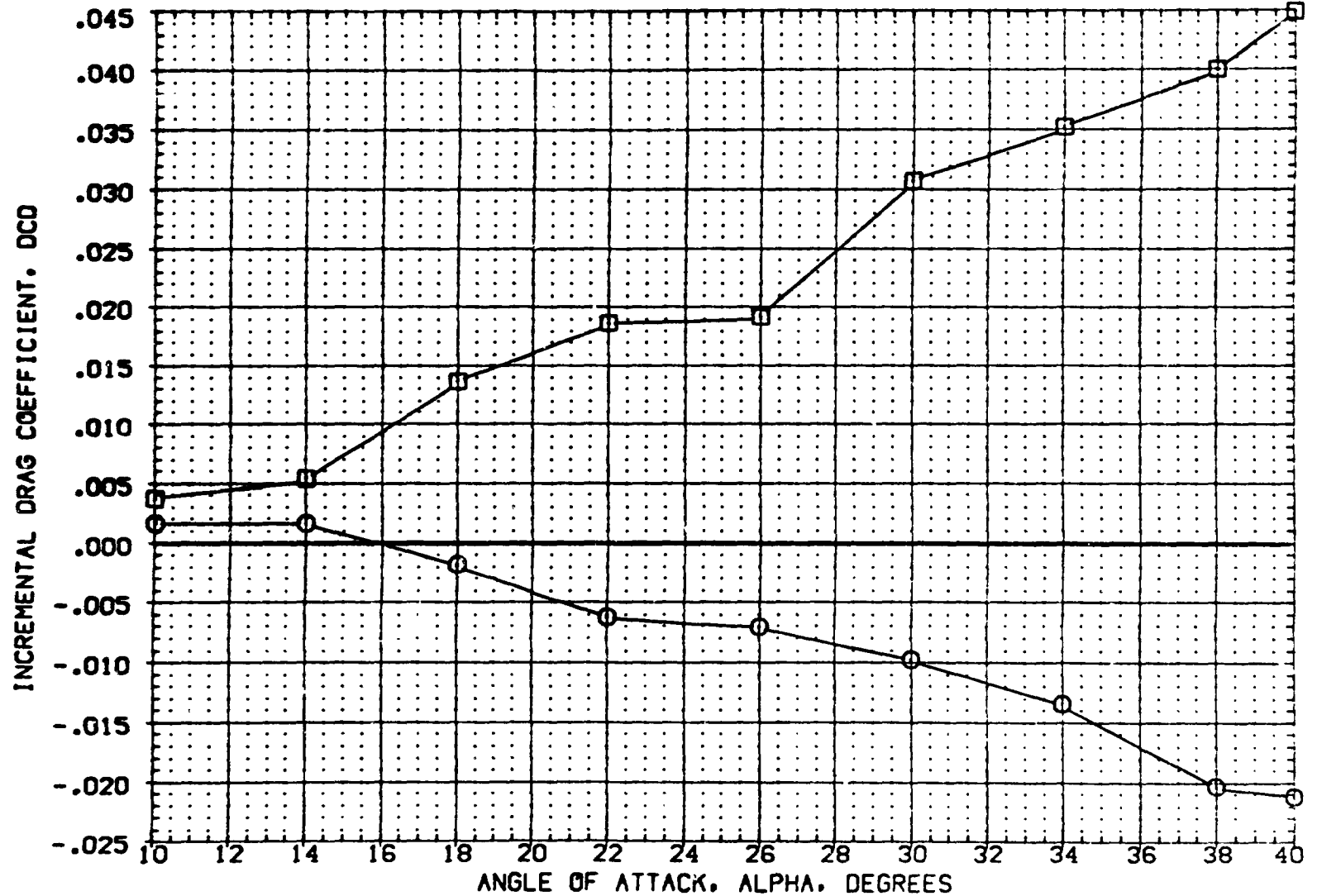


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(TB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(YB6003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R6 S7 V107	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

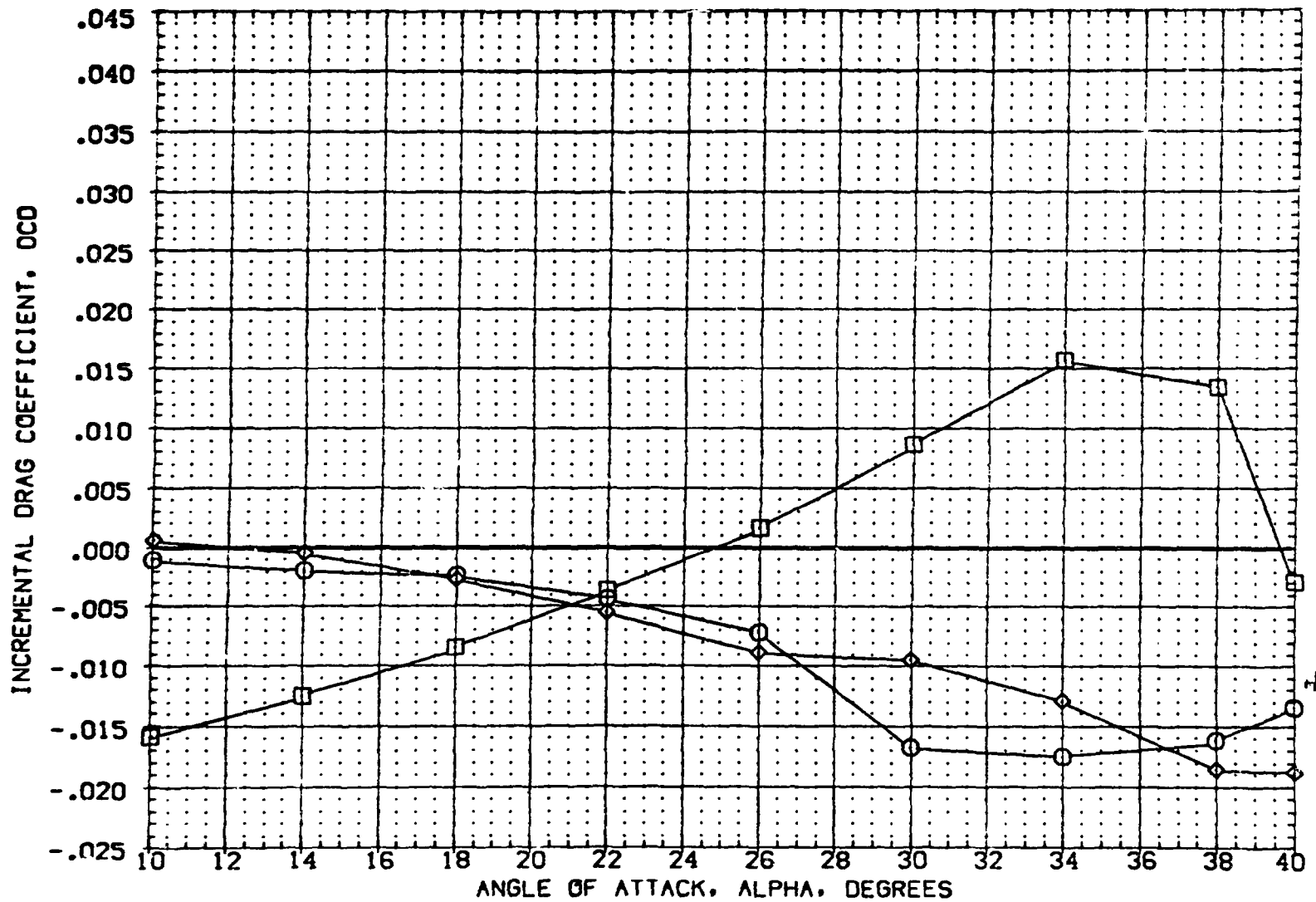


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPDBRY	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

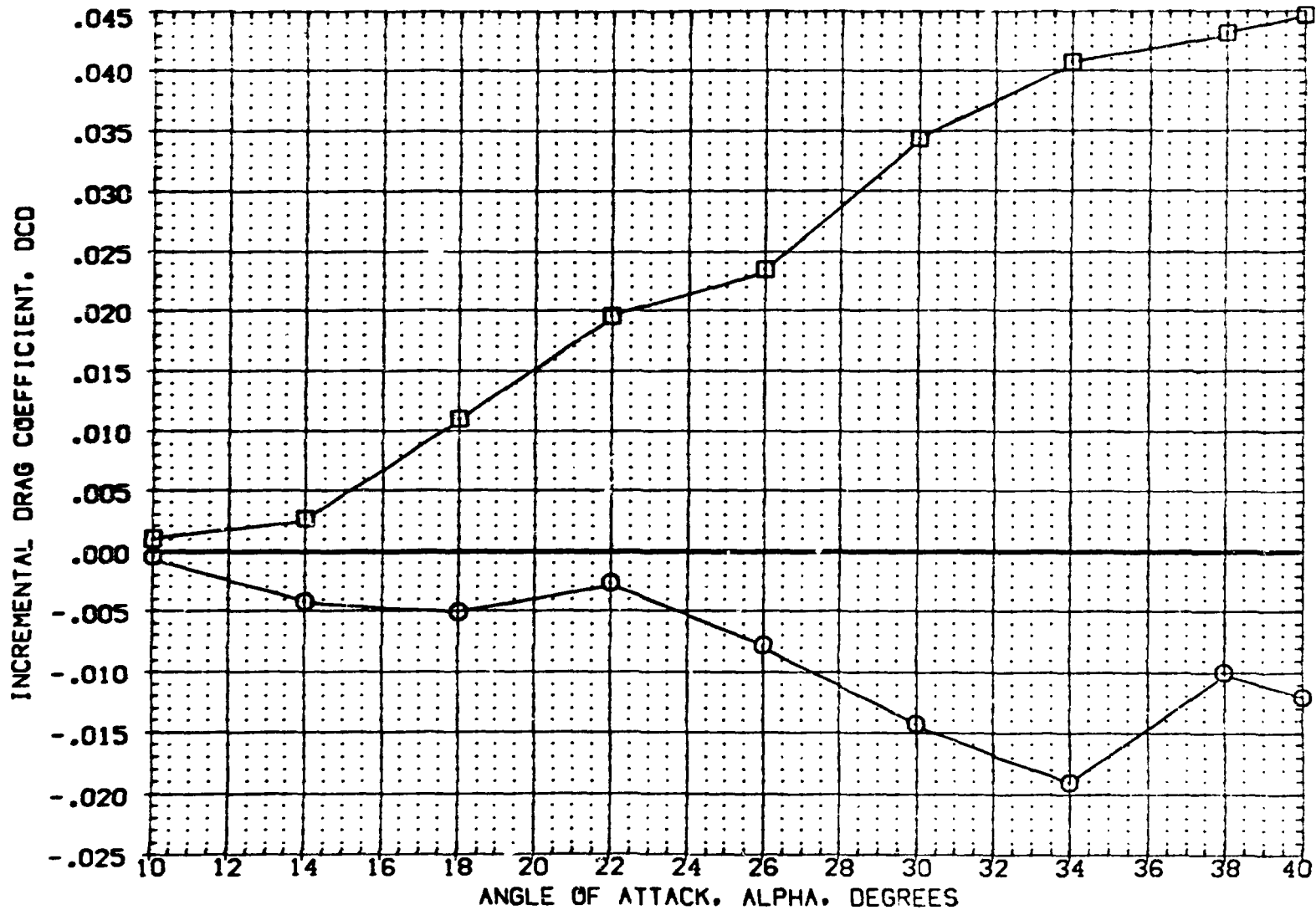


FIG. 5 BODY FLAP EFFECTS
 (C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMB.	CONFIGURATION DESCRIPTION	ELEVON DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000 -14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000 13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	DATA NOT AVAILABLE	-40.000 -14.250	55.000	.000	BREF 936.6000 IN.
					XMRP 1076.4000 IN.
					YMRP .0000 IN.
					ZMRP 400.0000 IN.
					SCALE .0150 SCALE

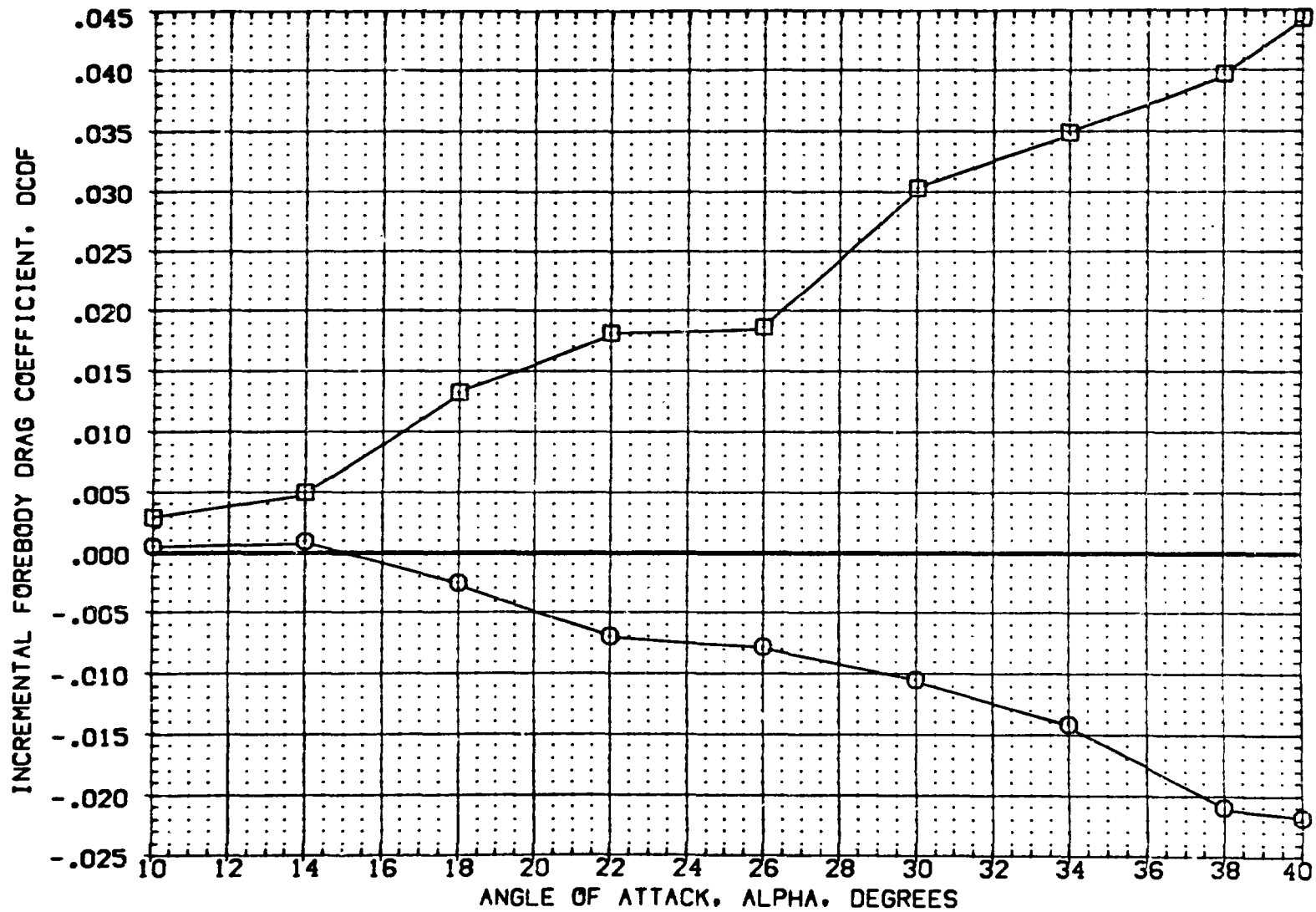


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(TB6008)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(YB6003)	APES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

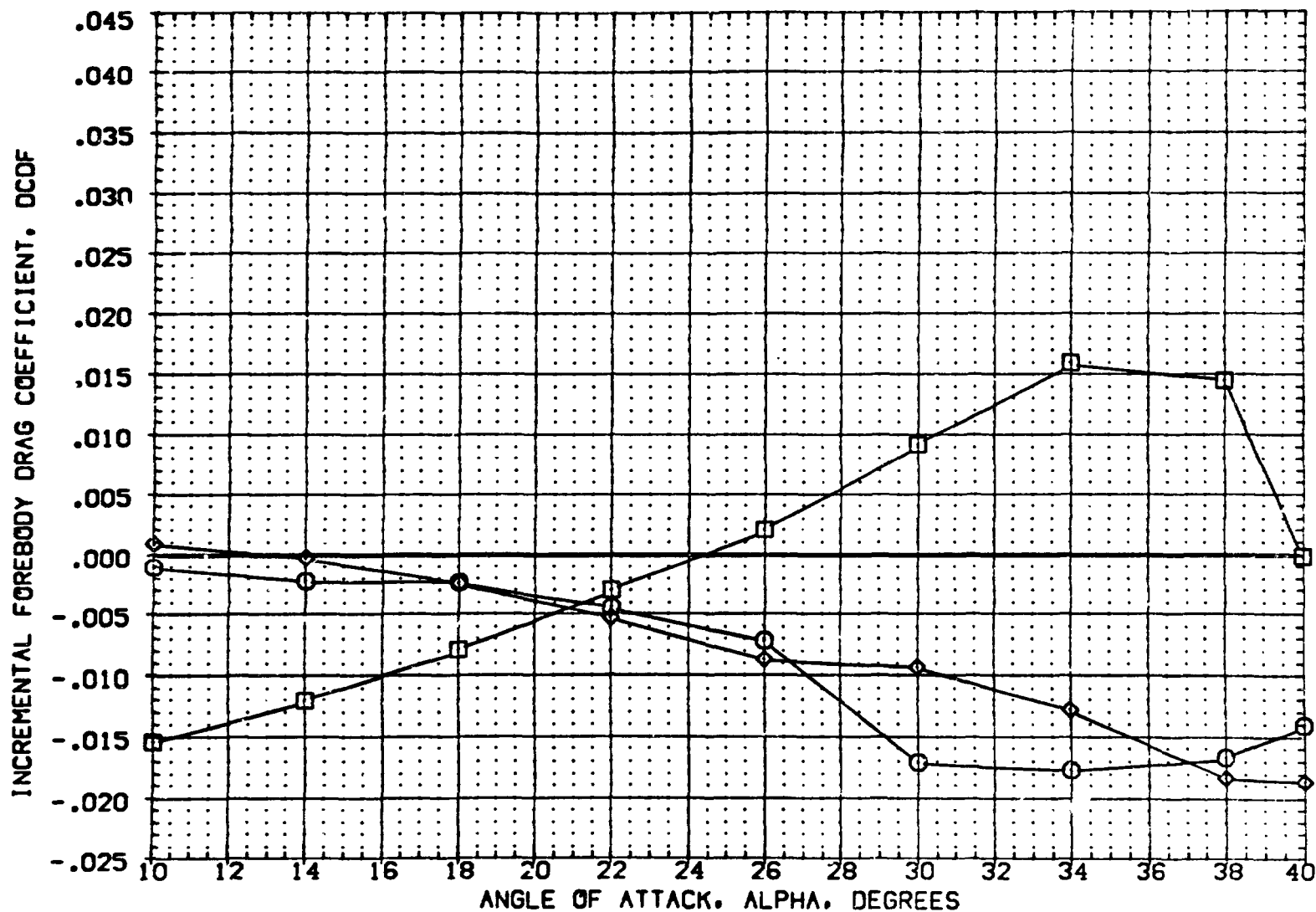


FIG. 5 BODY FLAP EFFECTS
 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2590.0000 SQ.FT.
(TB6008)	AMES3.5-168 GA23 B22 C7 E23 FS M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6900 IN.
						XMRP 1076.4600 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

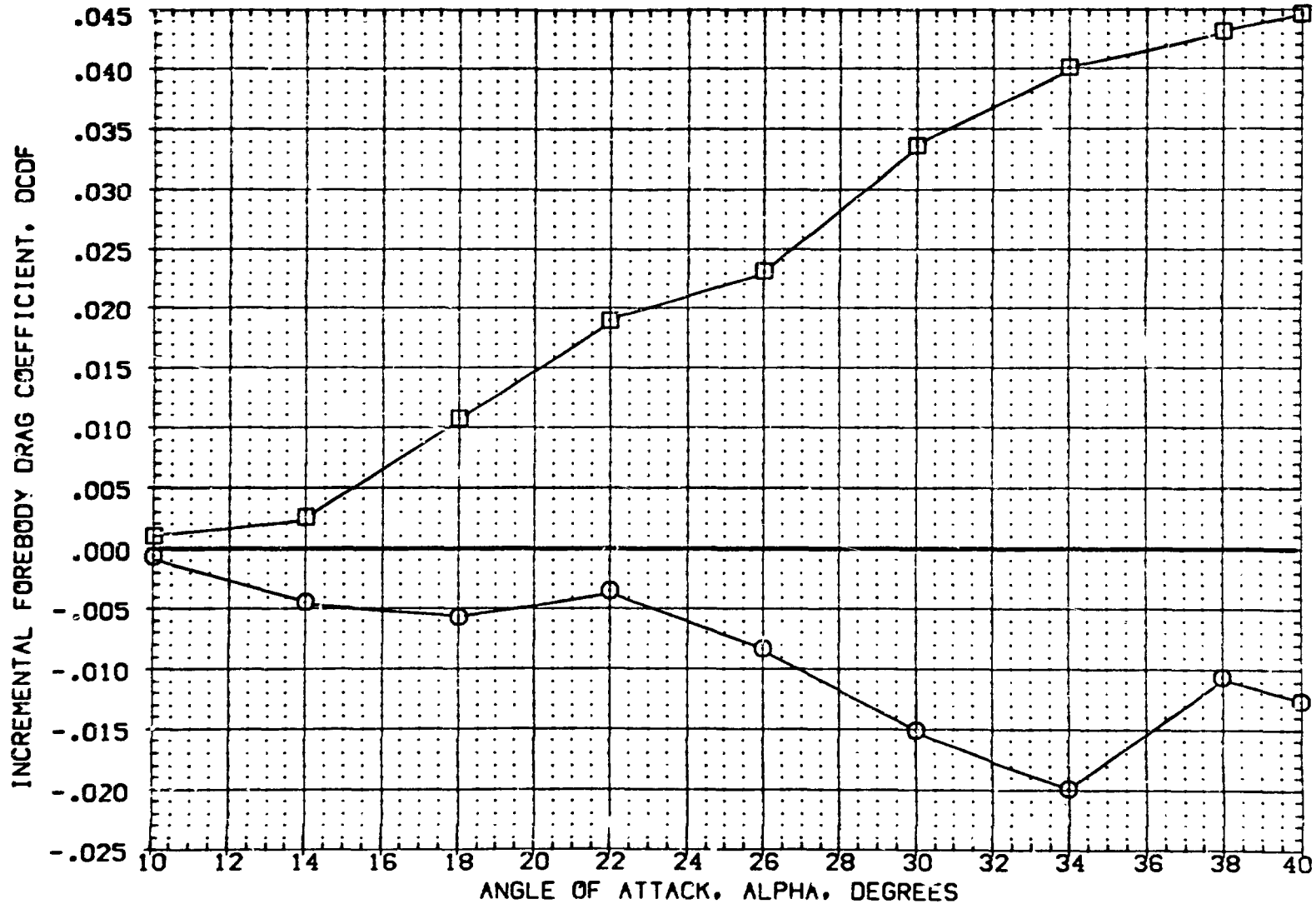


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3,5-168 OA23 B22 C7 E23 FS H4 7/8 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	AMES3,5-168 OA23 B22 C7 E23 FS H4 7/8 V7 V107	.000	-13.750	55.000	.003	LR.F 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

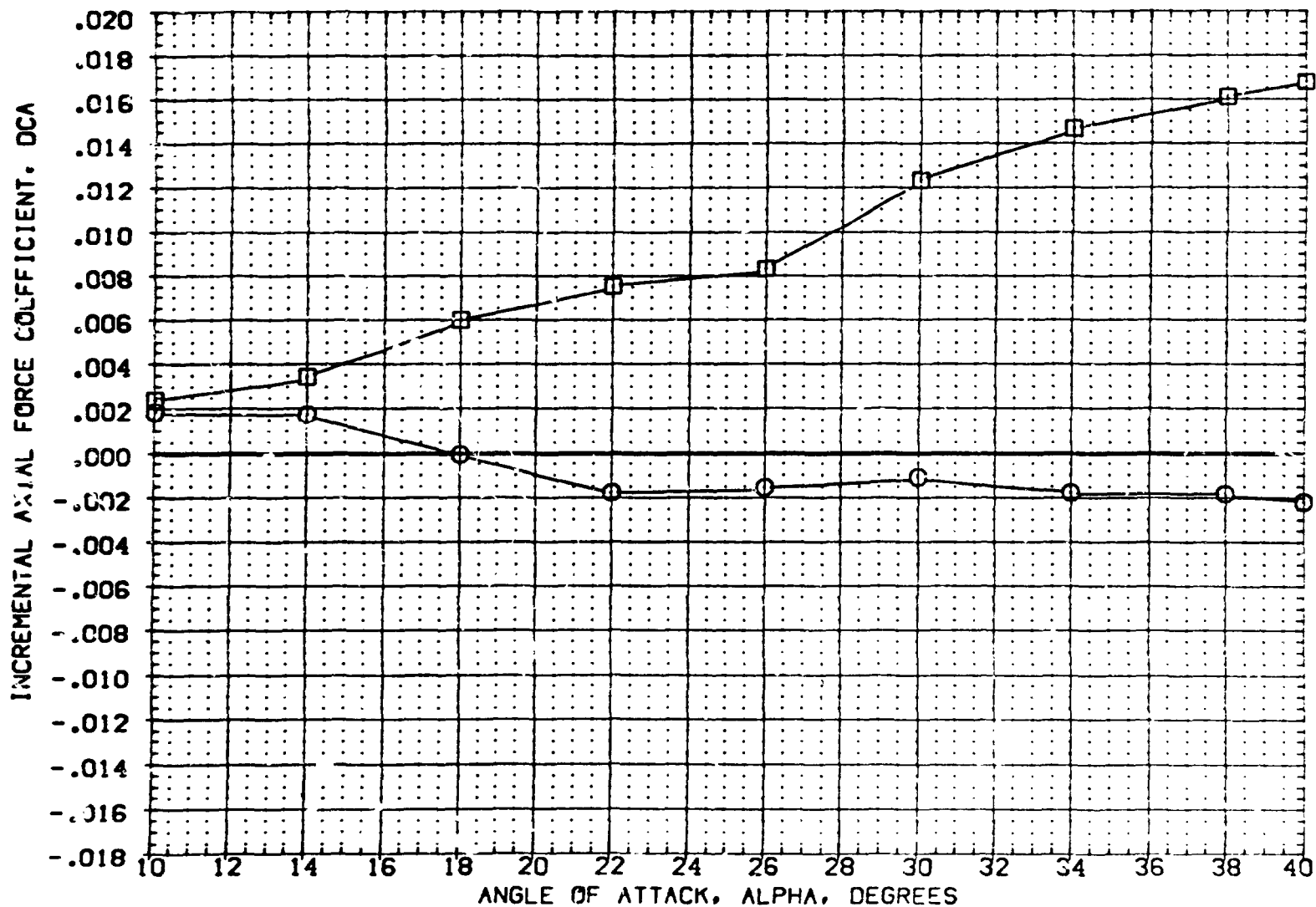


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	APES3.5-168 OA23 822 C7 E23 F3 H4 R5 Y7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	APES3.5-168 OA23 822 C7 E23 F3 H4 R5 Y7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	APES3.5-168 OA23 822 C7 E23 F3 H4 R5 Y7 V107	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XHRP 1076.4800 IN.
						YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0150 SCALE

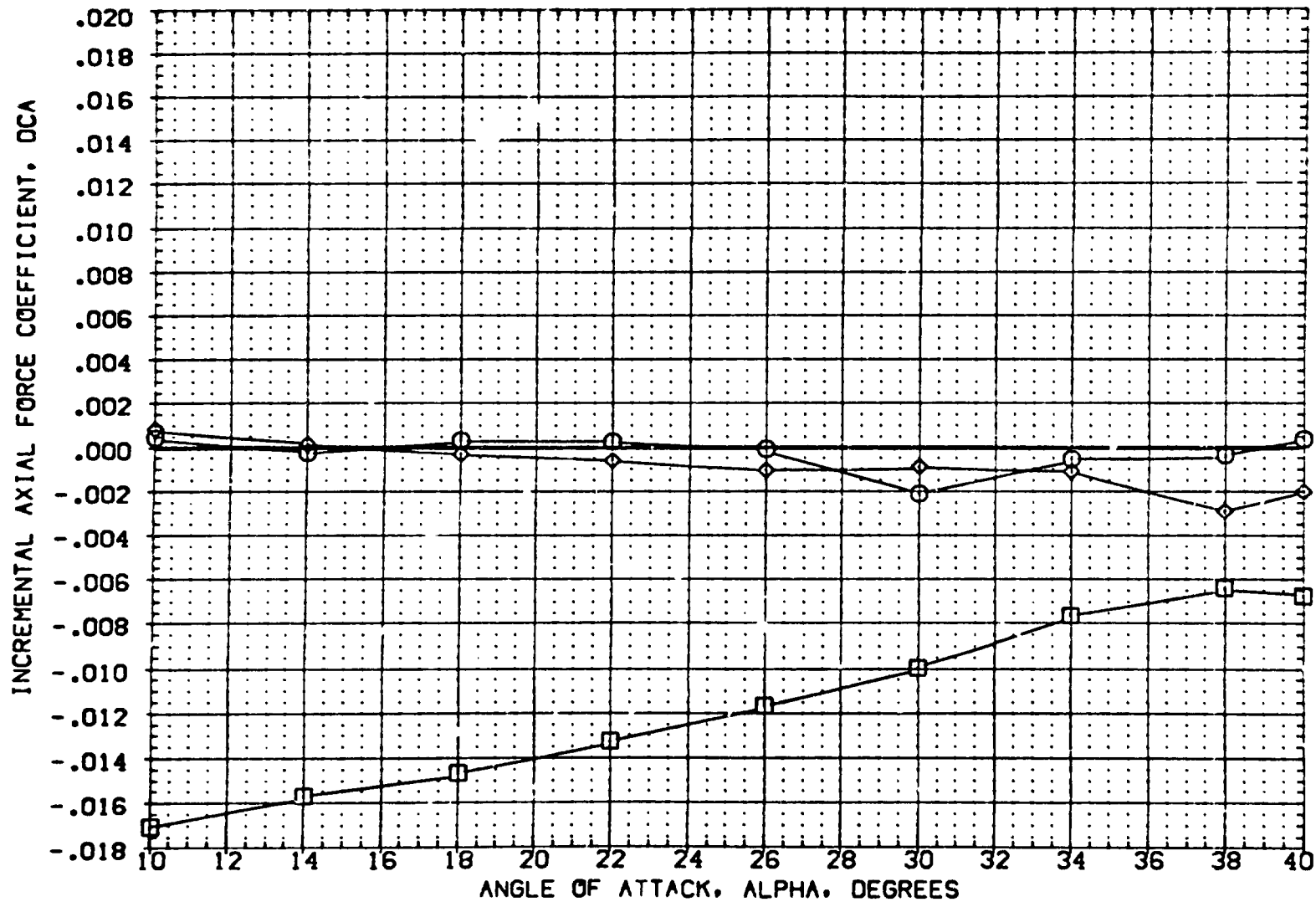


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.20 PAGE 179

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	○ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(TB6008)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 W107	.000	13.750	.000	LREF 474.9000 IN.	
(VB6003)	◇ DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 107.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0:50 SCALE

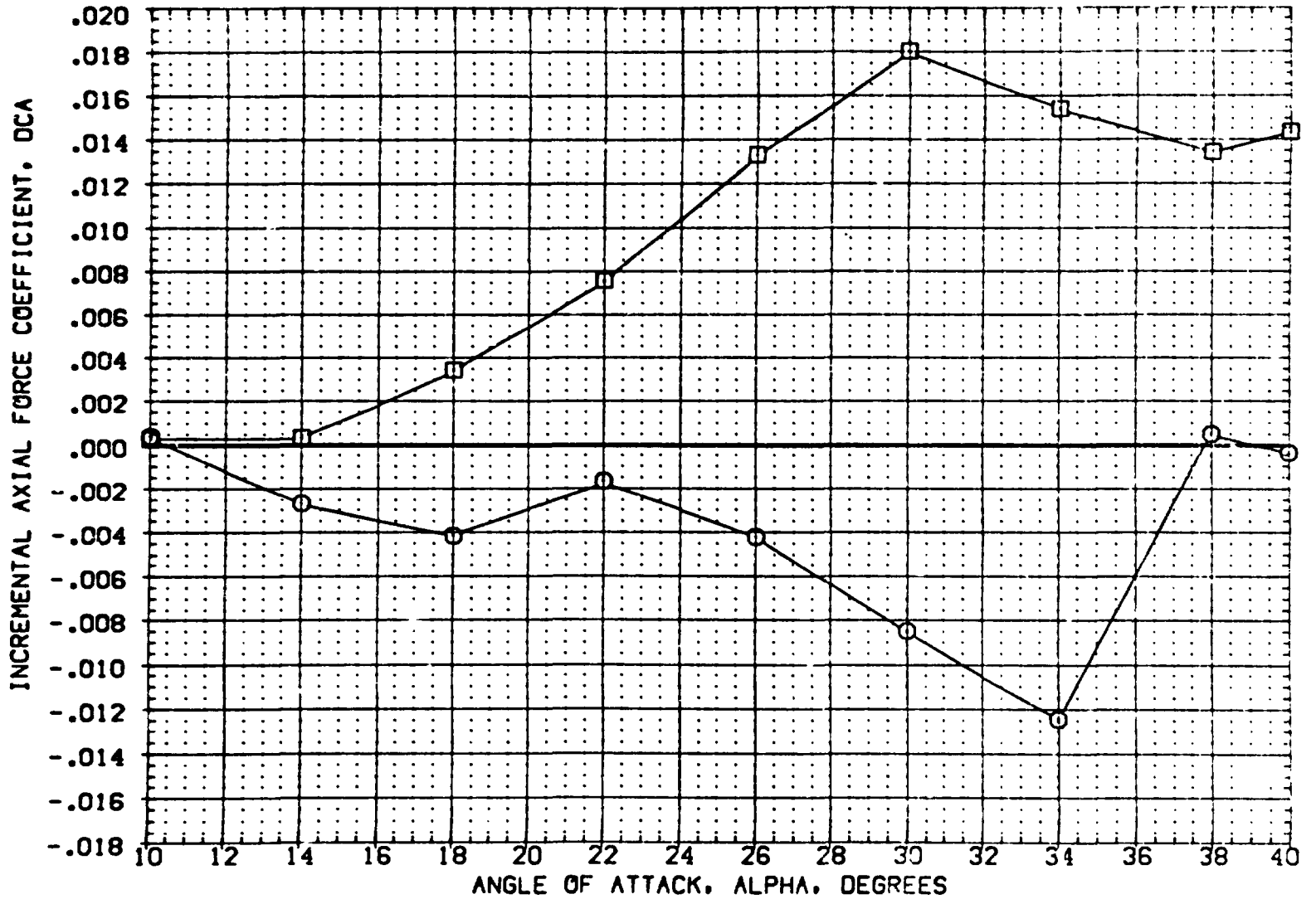


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOSRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 DA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6008)	AMES3.5-168 DA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

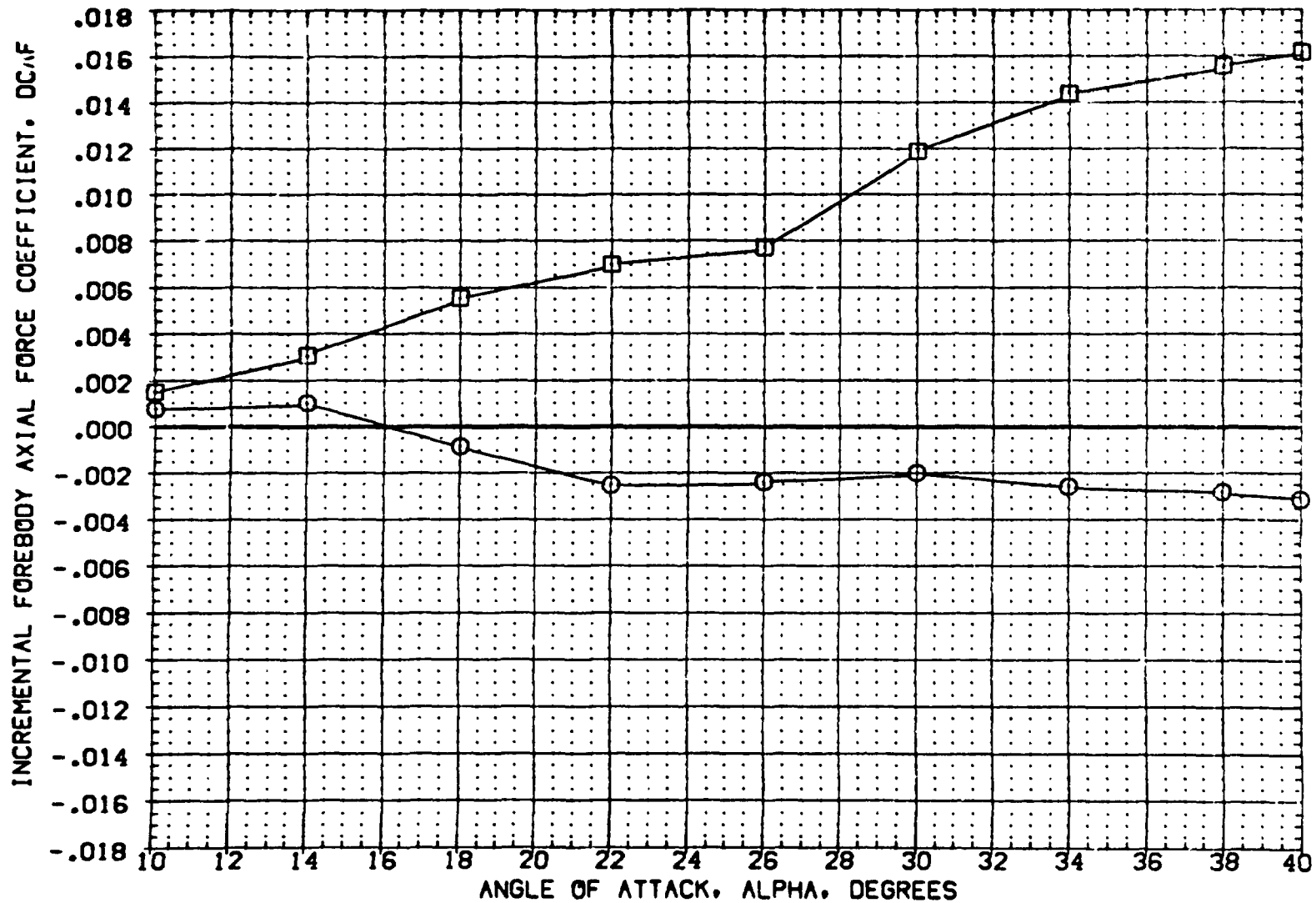


FIG. 5 BODY FLAP EFFECTS
(A)MACH = 5.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPODBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 V7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R8 V7 V107	-40.000	-14.250	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0150 SCALE

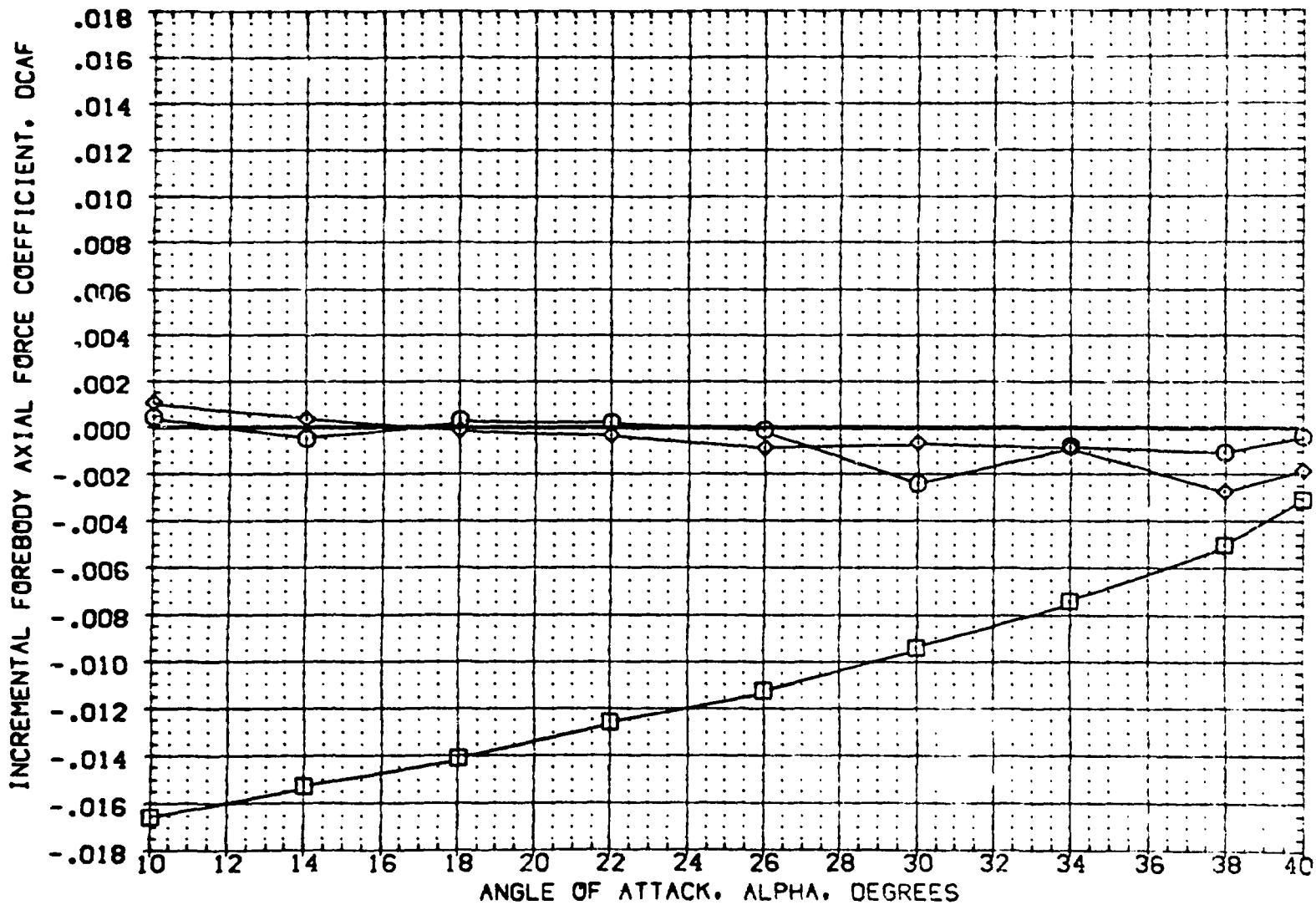


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 0A23 B22 C7 E23 F3 H4 R5 S7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(T86008)	AMES3.5-168 0A23 B22 C7 E23 F3 H4 R5 S7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

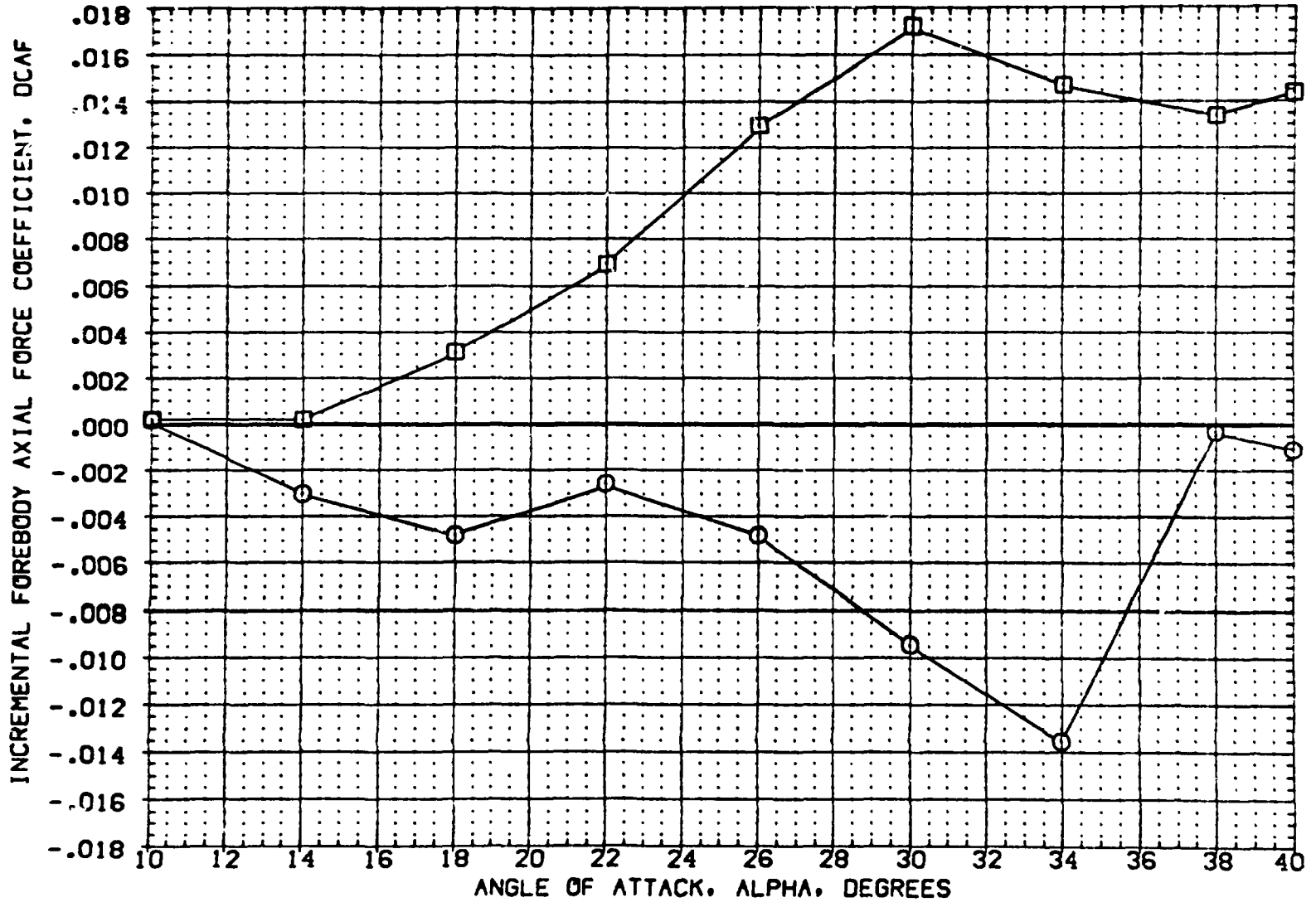


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION	
(TB6001)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 Y7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(TB6008)	AMES3.5-168 OA23 822 C7 E23 F5 M4 R5 Y7 V107	.000	13.750	55.000	.000	LREF	474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF	936.6200 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

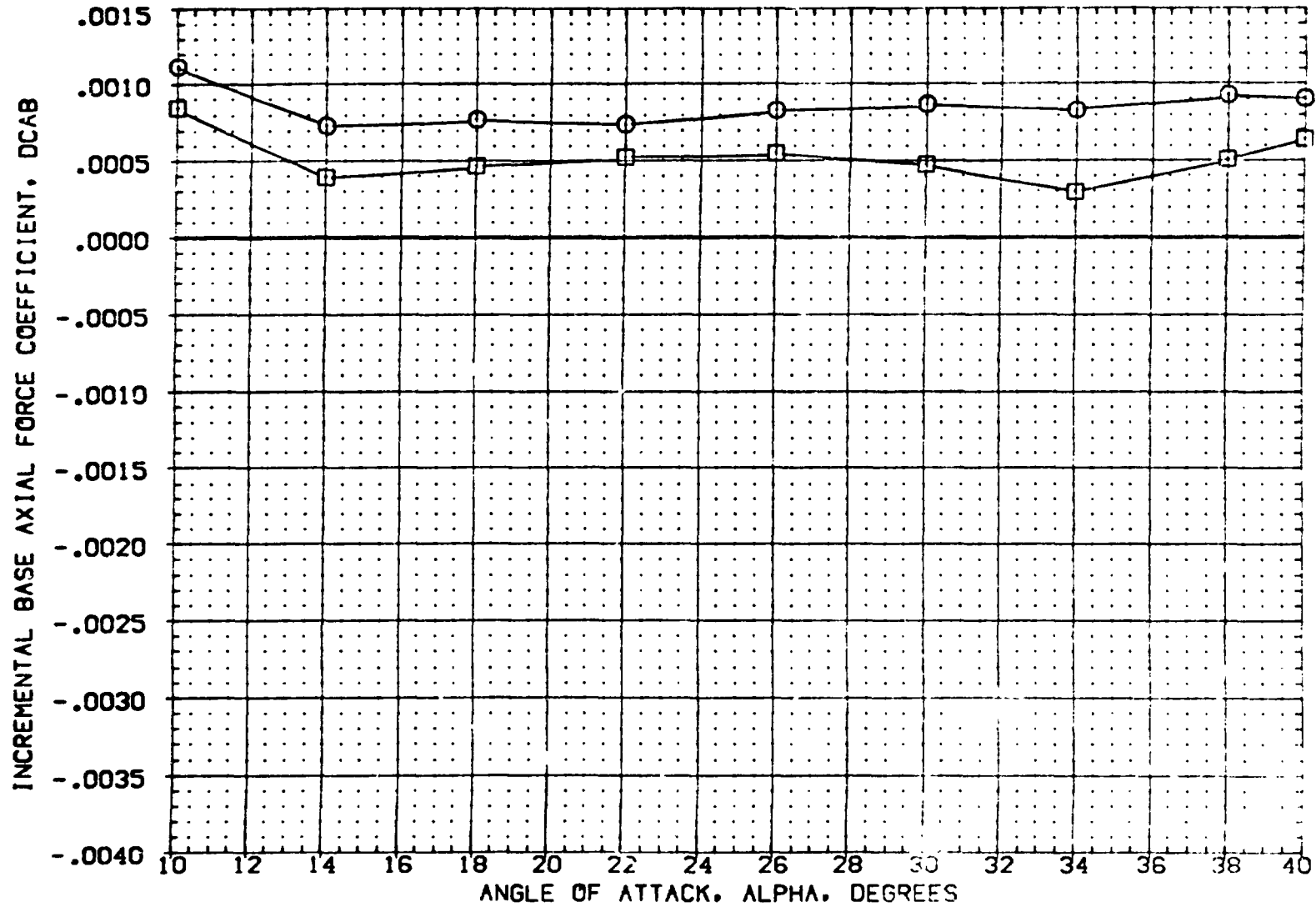


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M R5 V7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(T86008)	AMES3.5-168 OA23 B22 C7 E23 F5 M R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M R5 V7 V107	-0.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XREF 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

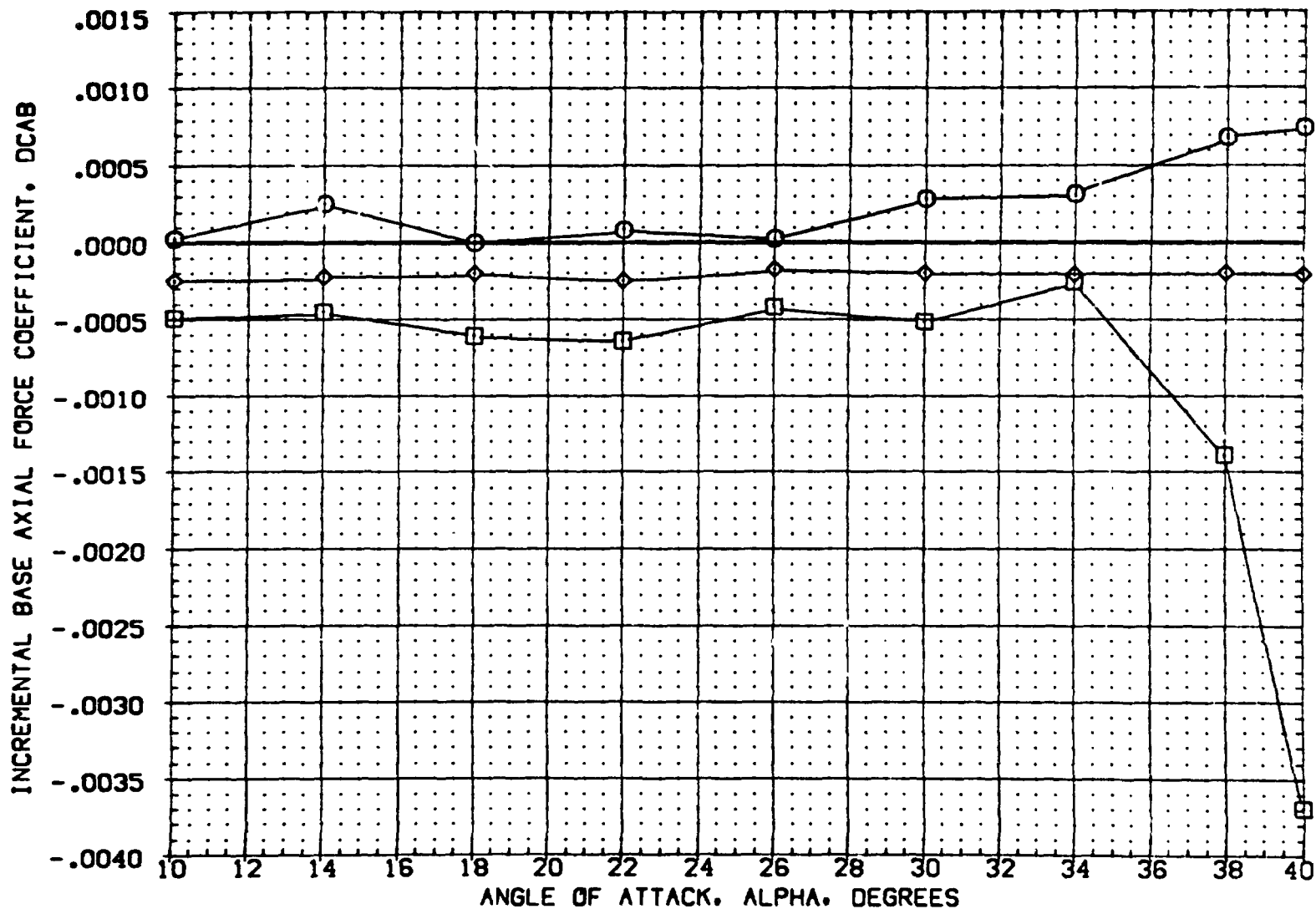


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(T86001)	AMES3.5-168 0A23 822 C7 E23 F5 H4 R5 V7 V107
(T86008)	AMES3.5-168 0A23 822 C7 E23 F5 H4 R5 V7 V107
(V86003)	DATA NOT AVAILABLE

ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

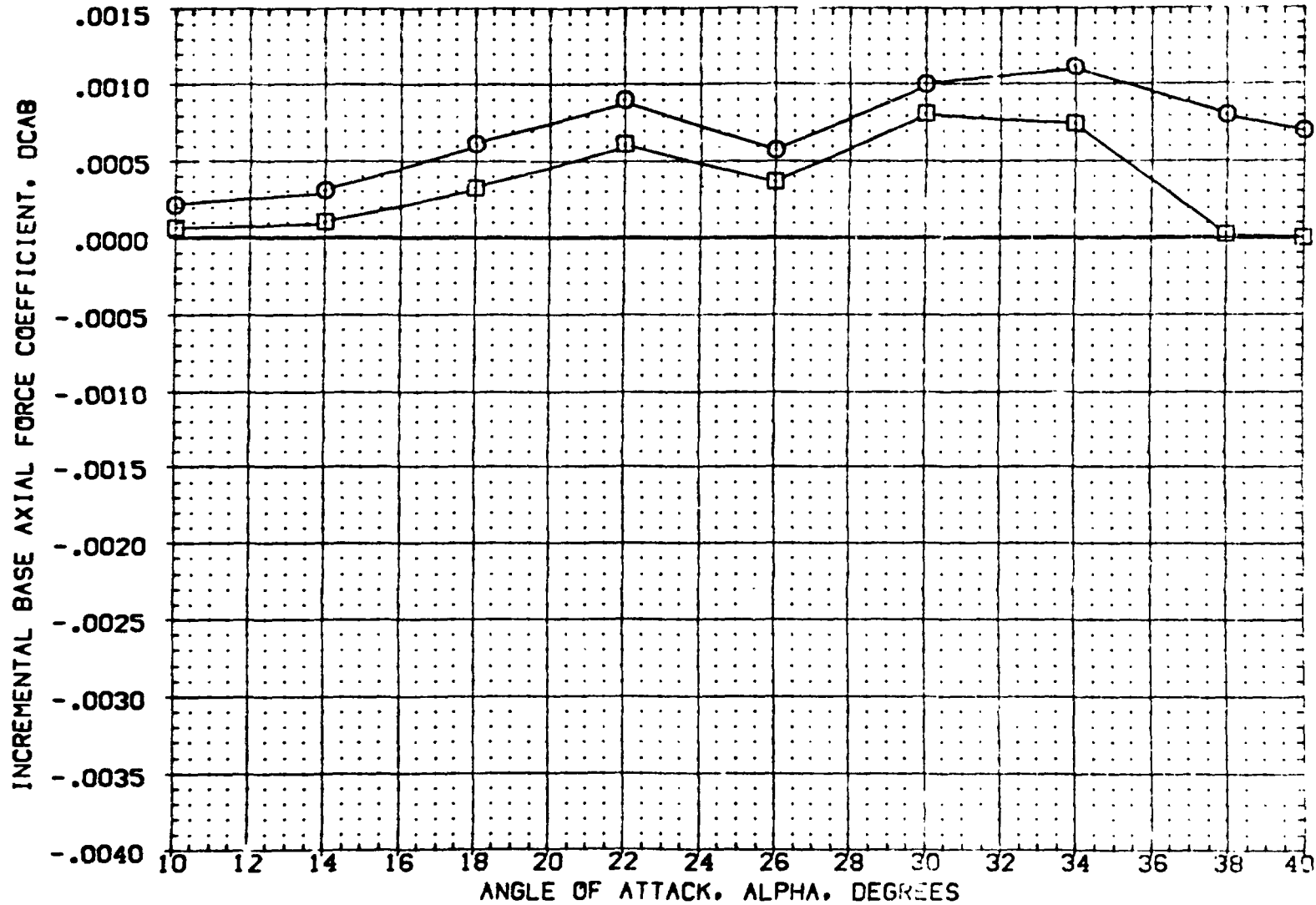


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(T86008)	○ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	◇ DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

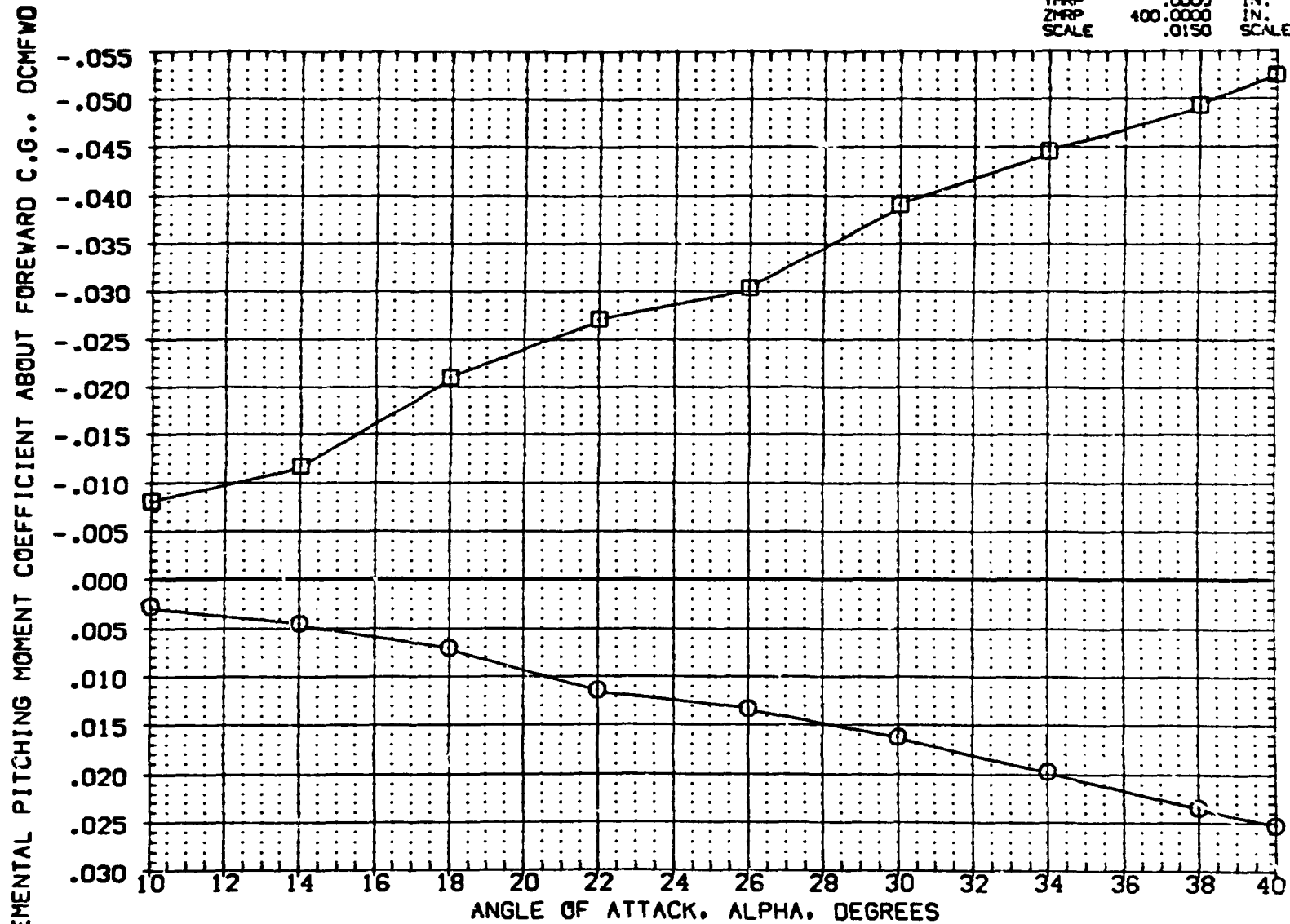


FIG. 5 BODY FLAP EFFECTS
 (A)MACH = 5.20
 147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION	
(T86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R8 Y7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(T86002)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R8 Y7 V107	.000	13.750	55.000	.000	LREF	474.8000 IN.
(V86003)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R8 Y7 V107	-40.000	-14.250	55.000	.000	BREF	236.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

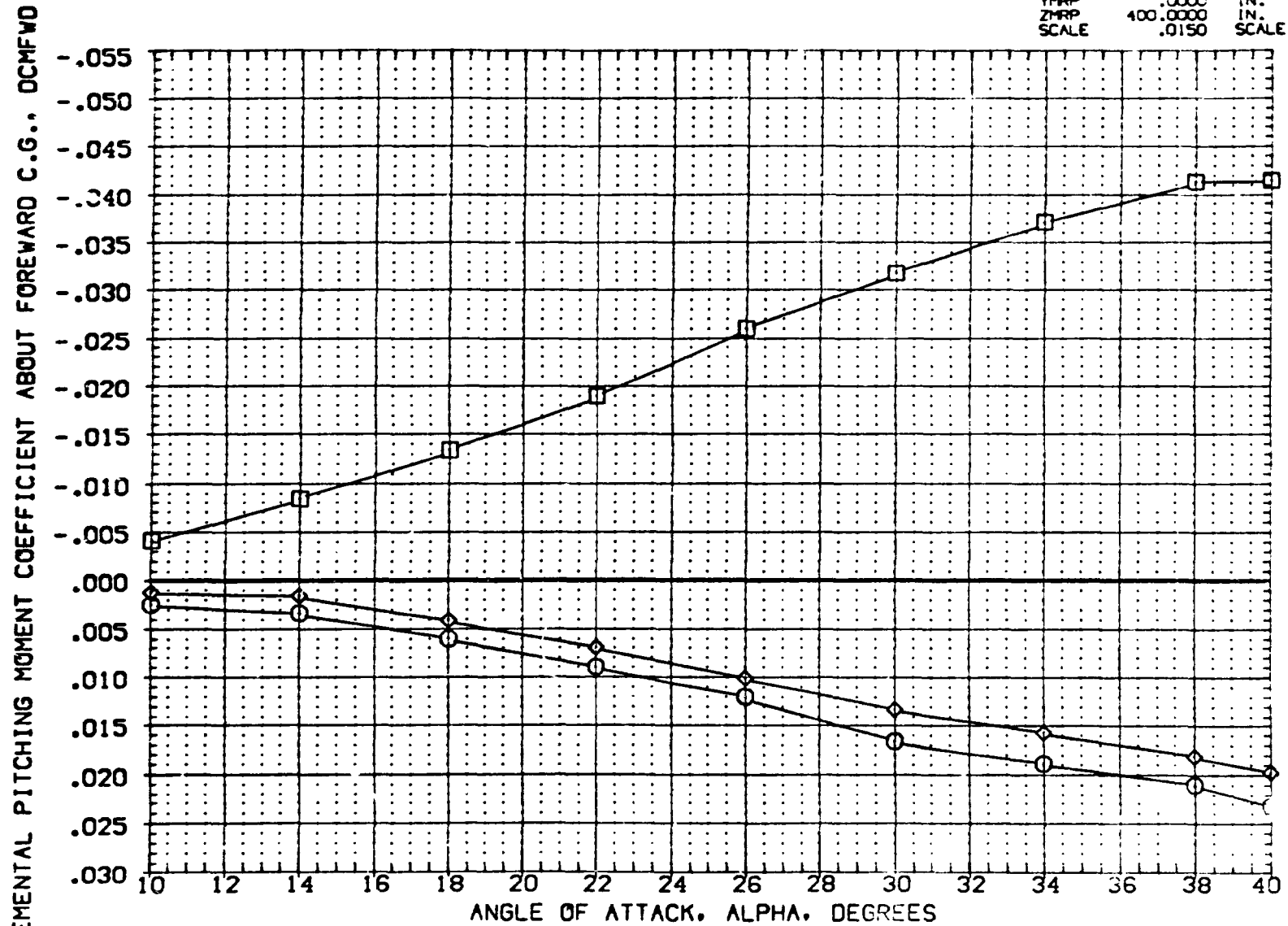


FIG. 5 BODY FLAP EFFECTS
(B)MACH = 7.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86001)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86008)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

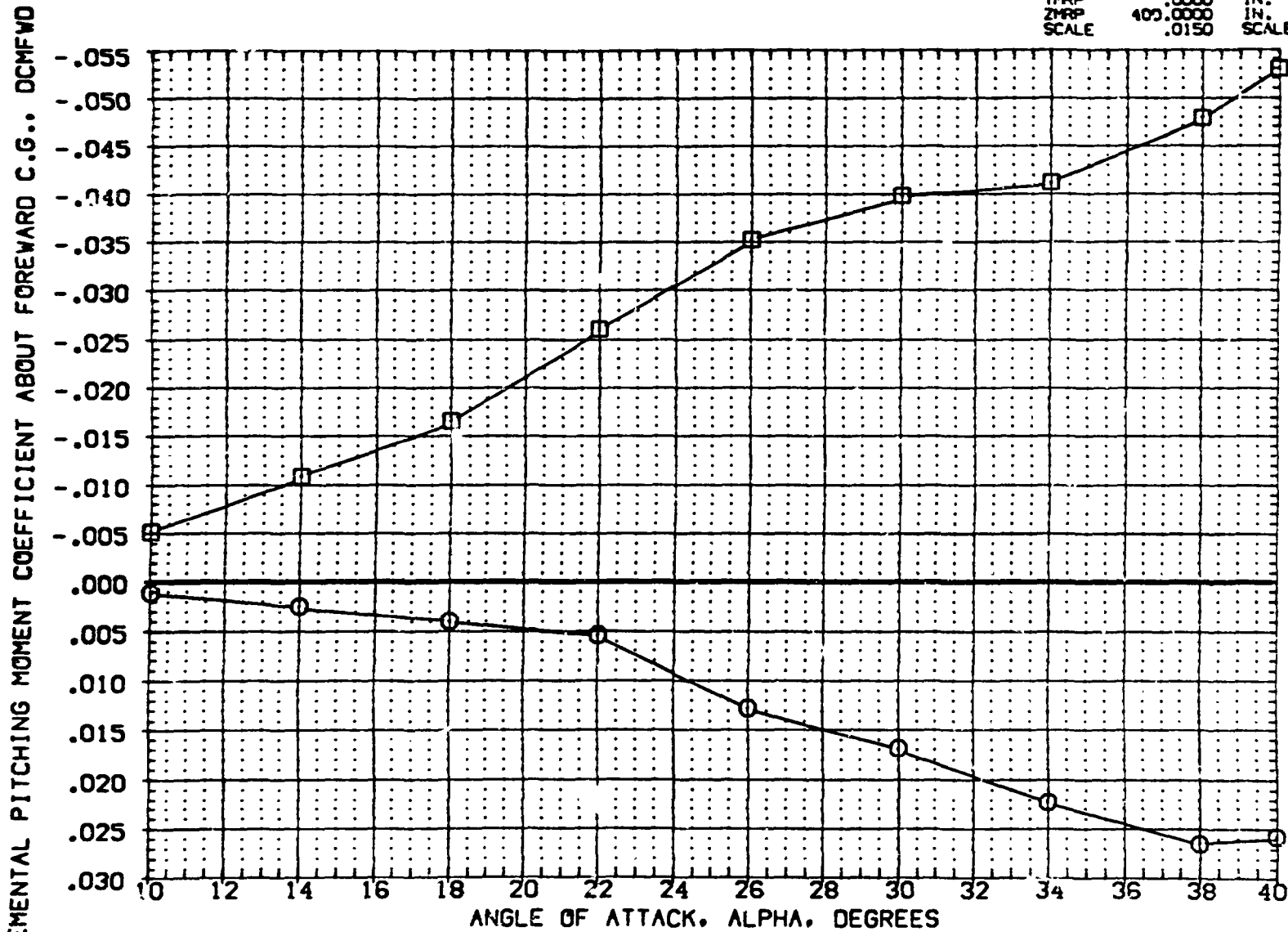


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(C)MACH = 10.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(TB6001) ◻ AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107
 (TB6008) ◻ AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107
 (VB6003) ◊ DATA NOT AVAILABLE

ELEVON	DBF	SPDRBK	RUDDER	REFERENCE INFORMATION	
.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF	474.8000 IN.
-40.000	-14.250	55.000	.000	BREF	936.6800 IN.
				XMRP	10° 5.4800 IN.
				YMRP	.0000 IN.
				ZMRP	400.0000 IN.
				SCALE	.0150 SCALE

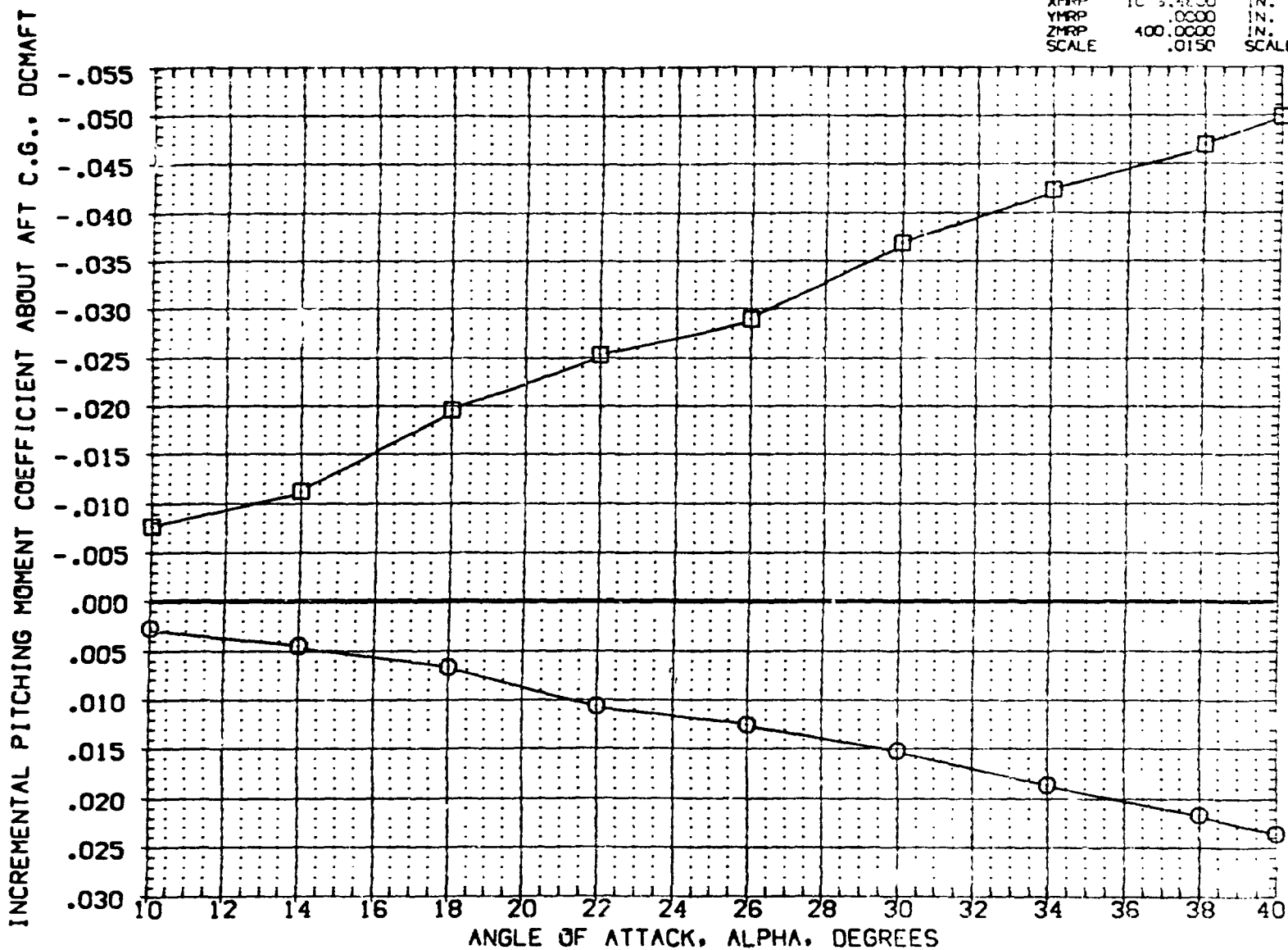


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SFC3RK	RUDDER	REFERENCE INFORMATION
(186001)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(186009)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
(V86003)	AMES3.5-168 DA23 822 C7 E23 F5 M4 R5 V7 V107	-40.000	-14.250	55.000	.000	BREF 936.6300 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

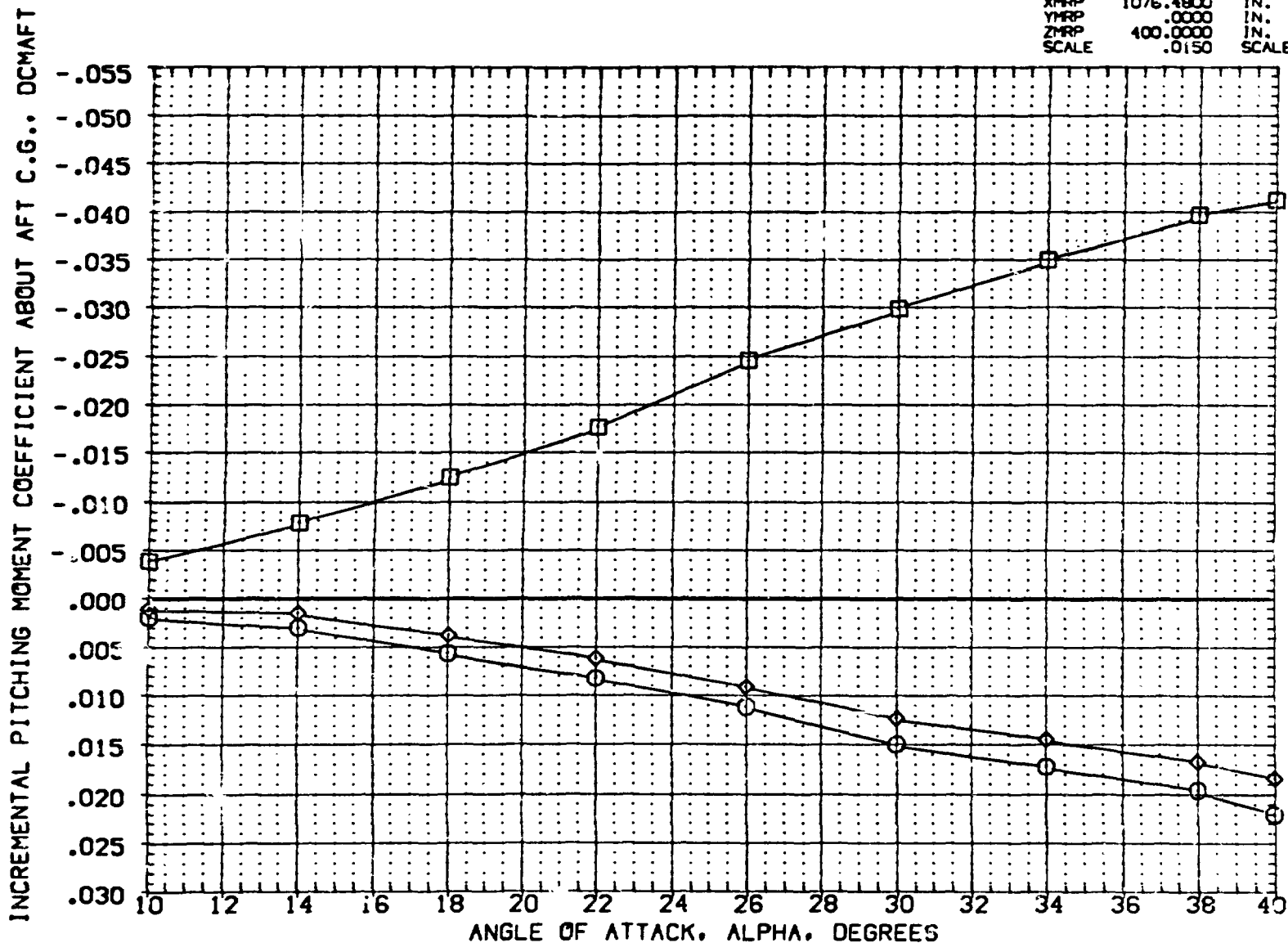


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(TB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-13.750	55.000	.000	LREF 474.8000 IN.
(VB6003)	DATA NOT AVAILABLE	-40.000	-14.250	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

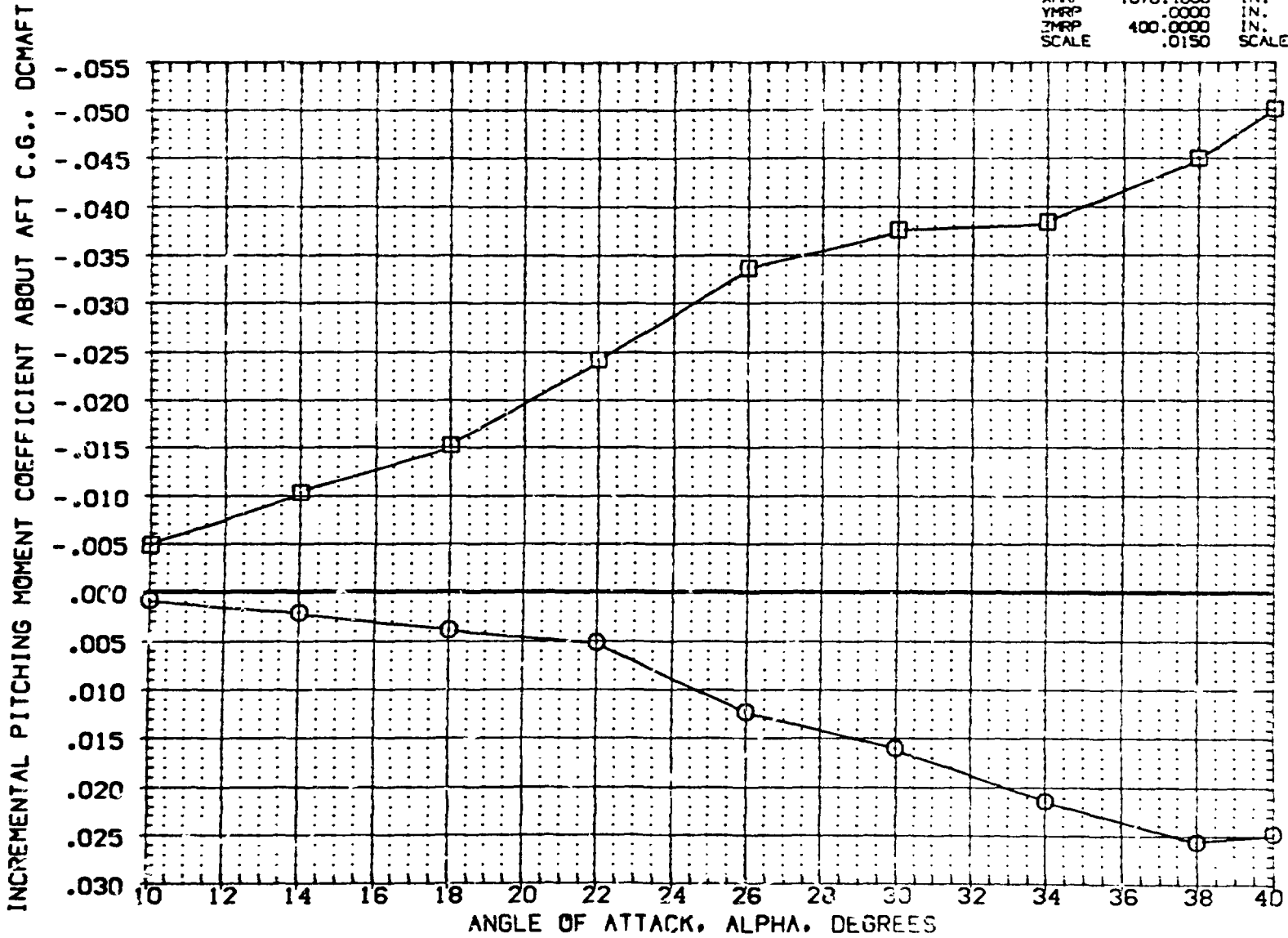


FIG. 5 BODY FLAP EFFECTS
(C)MACH = 10.20

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86031)	AMES3.9-168 0A23 822 07 F23 73 31 32 57 V107	.000	-14.250	55.000	.000	SREF 2690.0000 80. FT.
(L86008)	AMES3.9-168 0A23 822 07 F23 73 31 32 57 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XHRP 1076.4800 IN.
						YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0150 SCALE

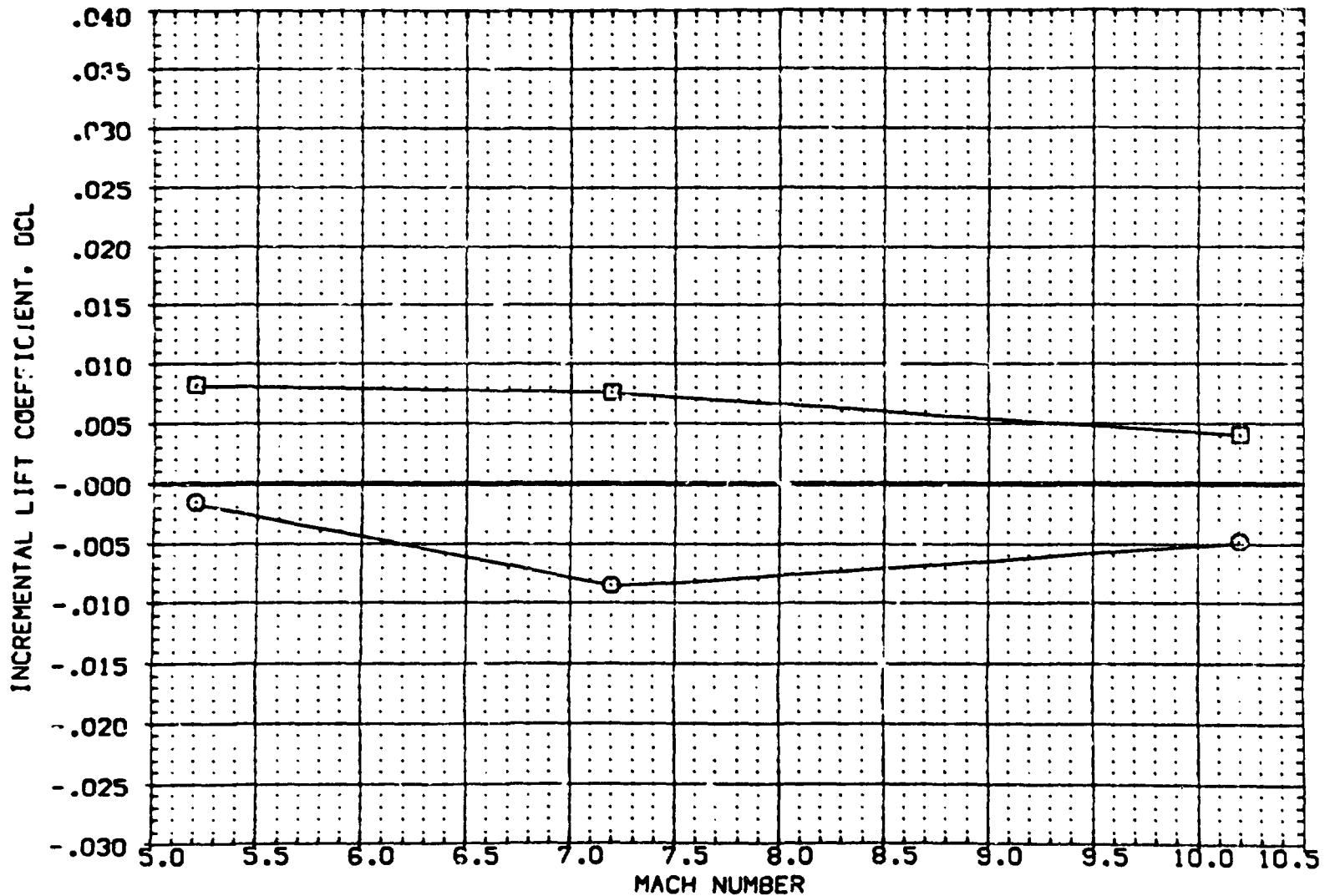


FIG. 5 BODY FLAP EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0700 IN.
						SCALE .0150 SCALE

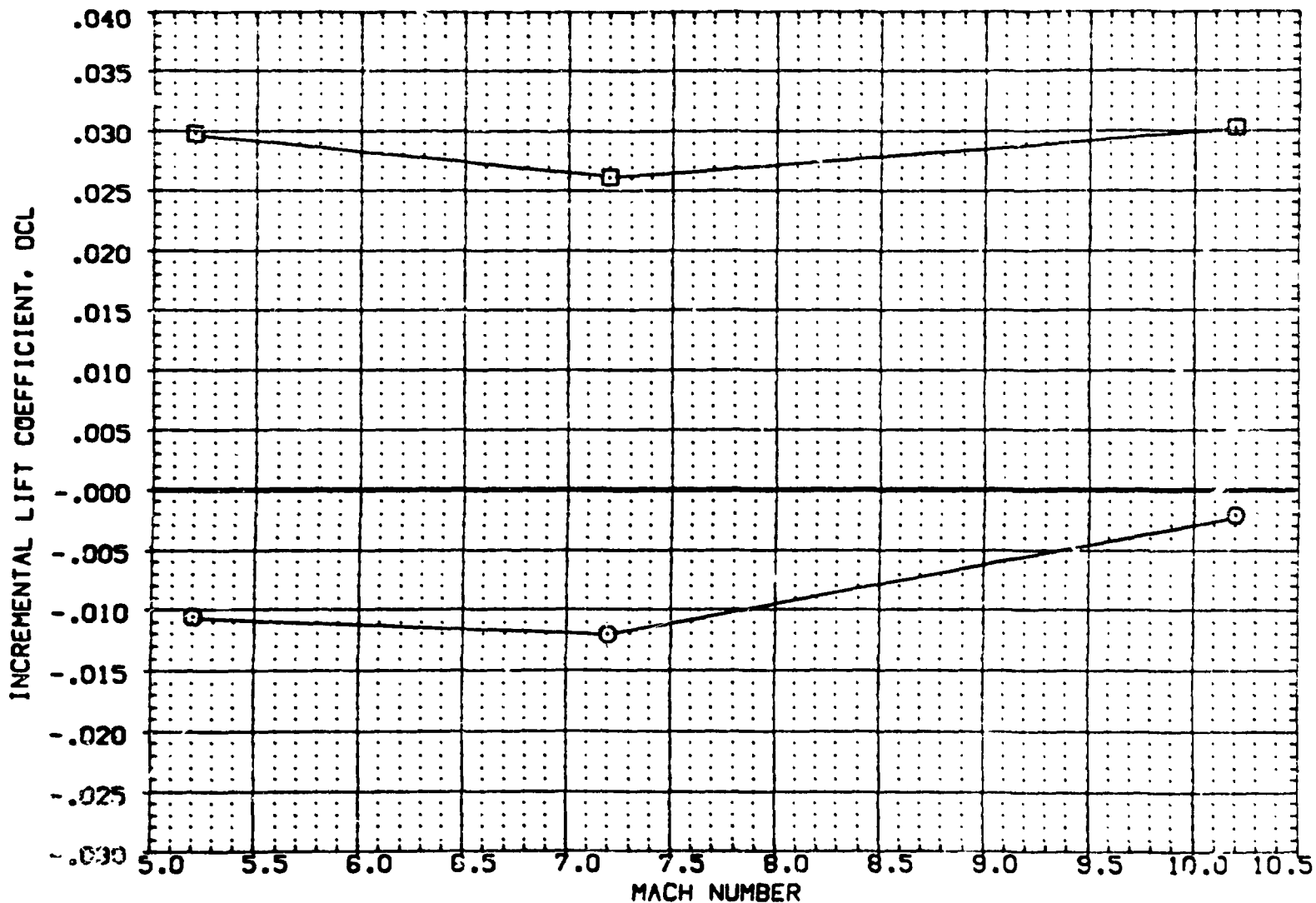


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOORK	FLUDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SPEF 2630.0000 SO.FT.
(UB6008)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	.000	L.REF 474.6000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE	

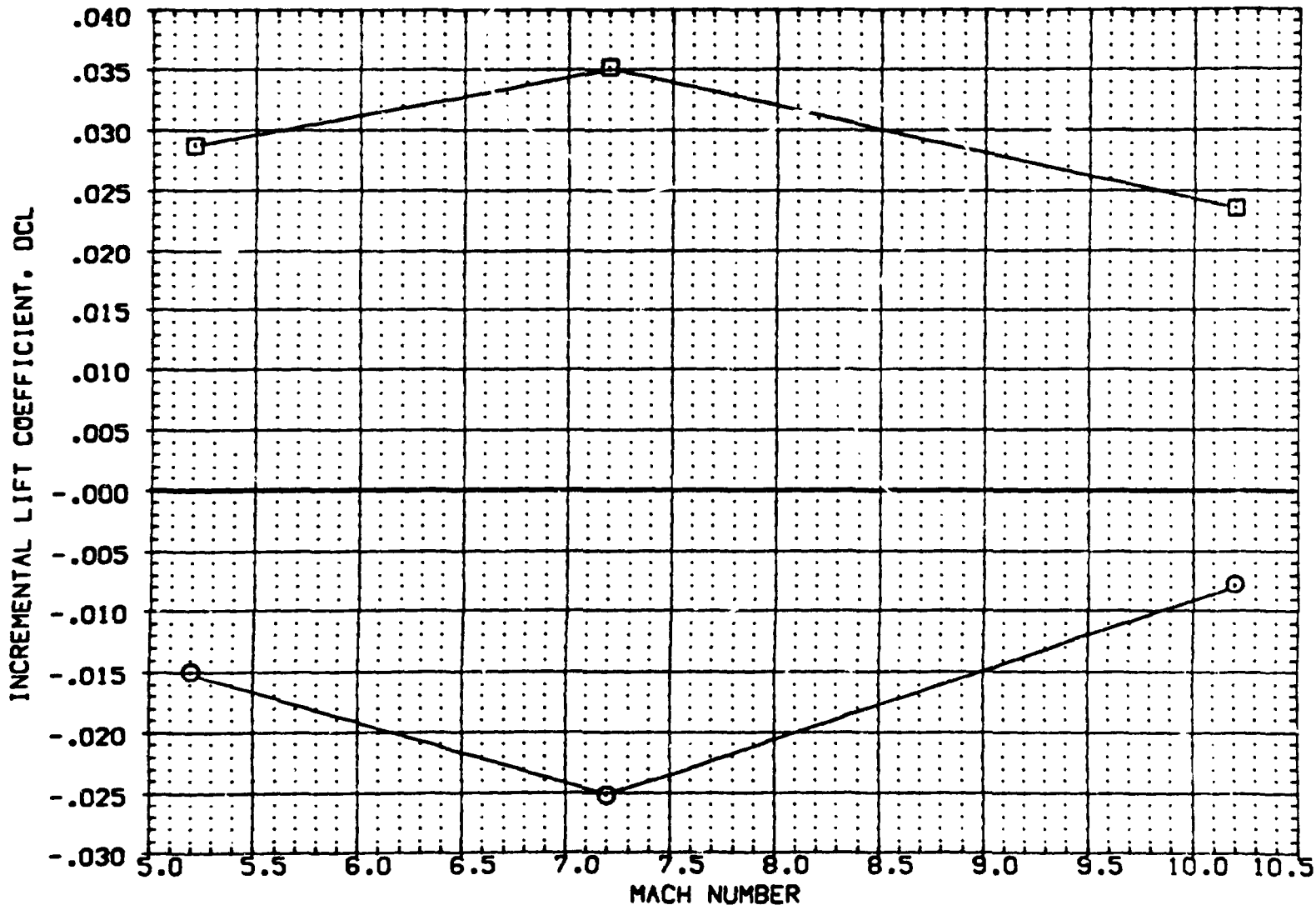


FIG. 5 BODY FLAP EFFECTS
(C)ALPHA = 30.00

1478 CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPDRBK	RUDDER	REFERENCE INFORMATION
(L86001)	□ APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86008)	□ APES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LRCF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE

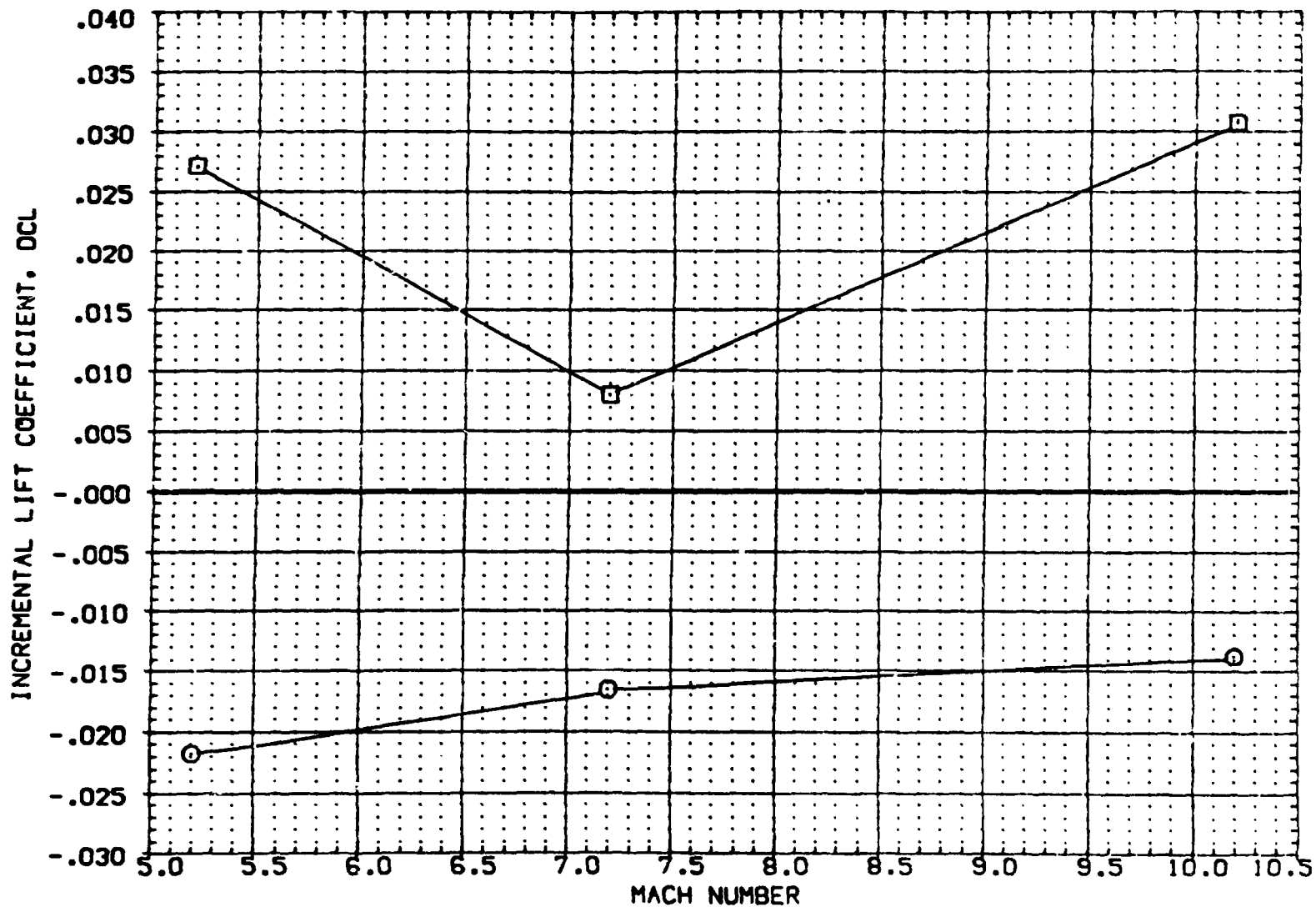


FIG. 5 BODY FLAP EFFECTS
(O) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBO	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RLODR	REFERENCE INFORMATION
(UB6001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 RS V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(UB6008)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 RS V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

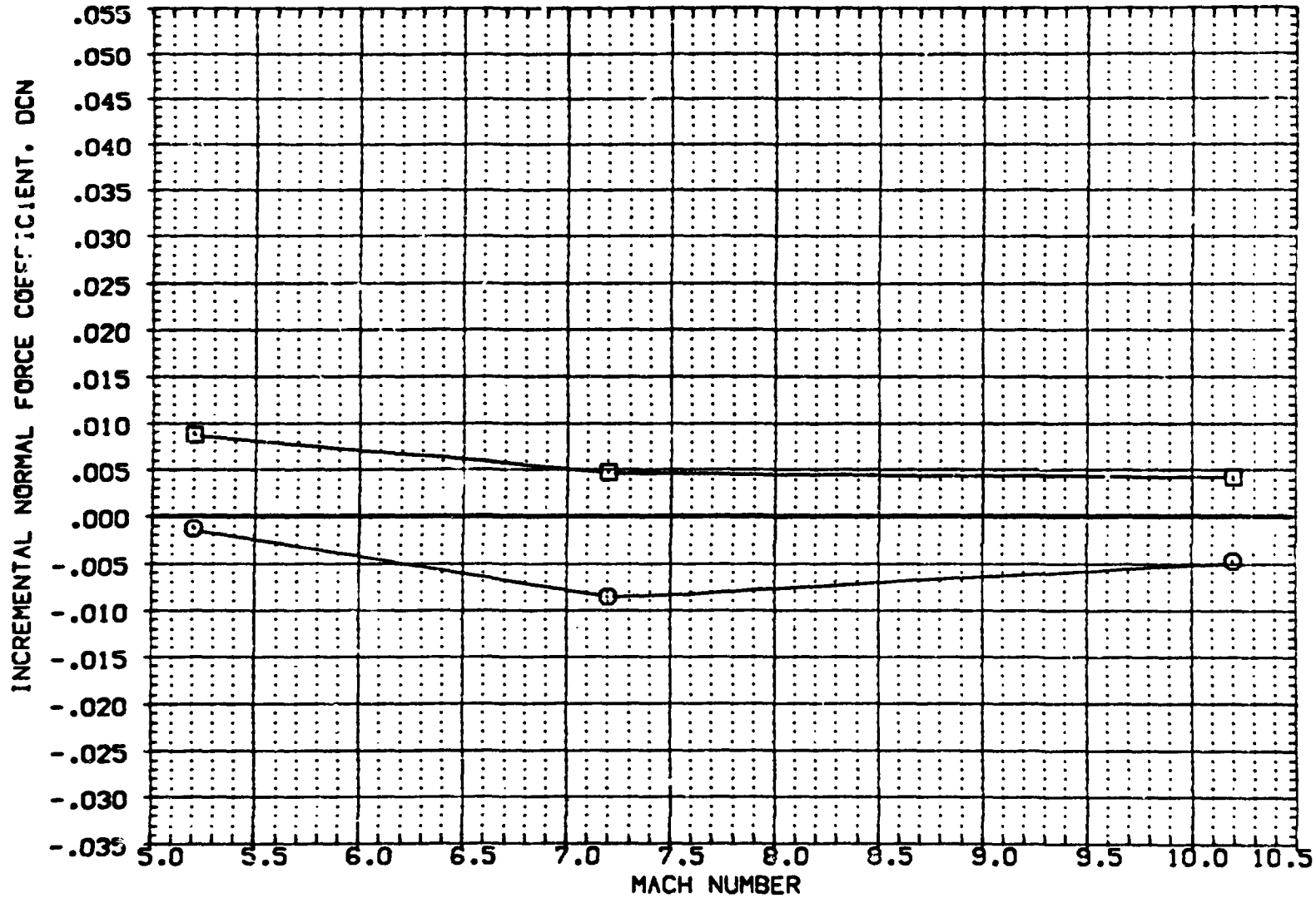


FIG. 5 BODY FLAP EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION		
(L86001)	□ AMES3.5-168 0A23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(L86008)	□ AMES3.5-168 0A23 B22 C7 E23 F3 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF	474.8000	IN.
						BREF	936.6800	IN.
						XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0150	SCALE

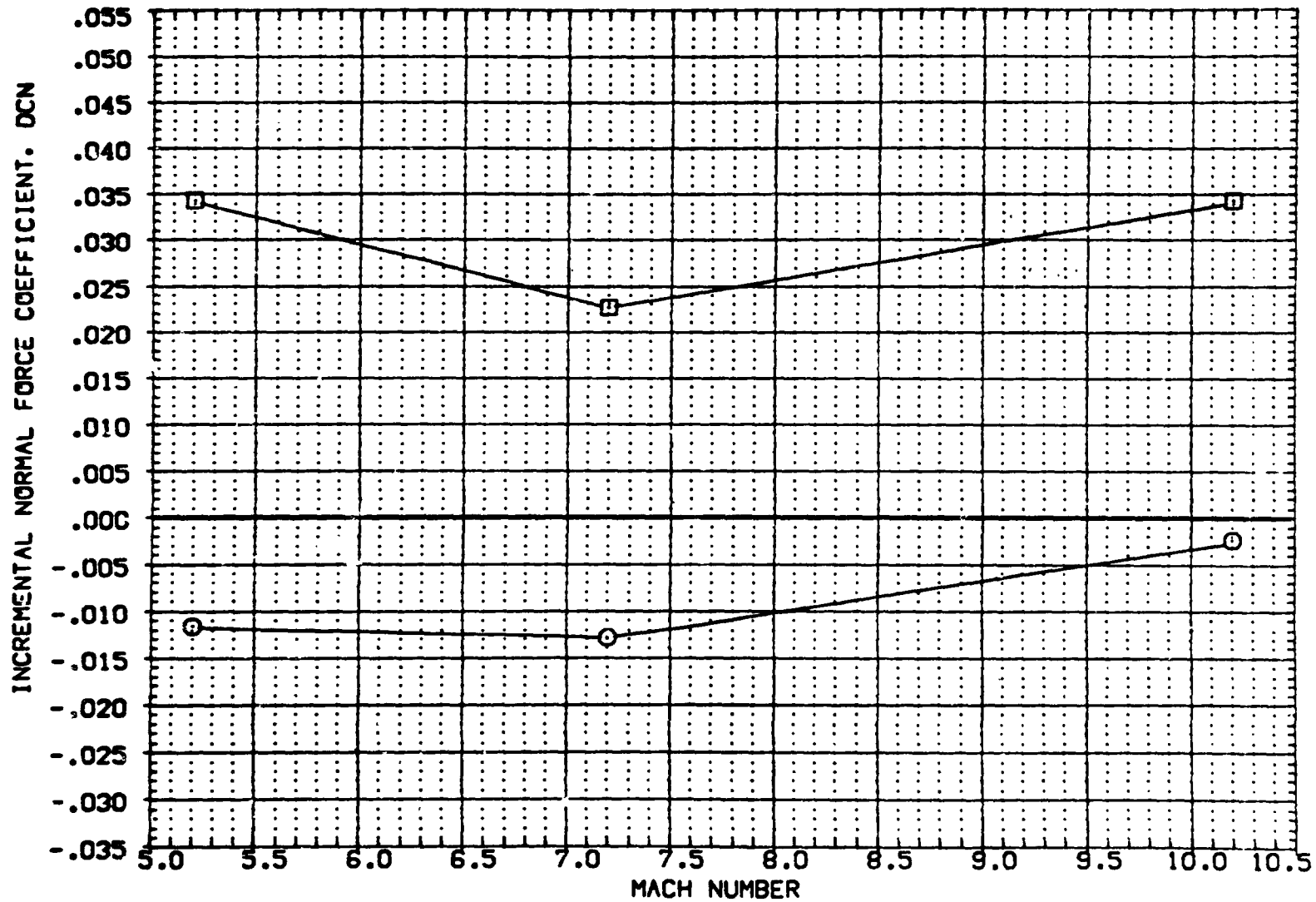


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION	
UB6001)	AMES3.5-168 DA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
UB6008)	AMES3.5-168 DA23 B22 C7 E23 F3 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

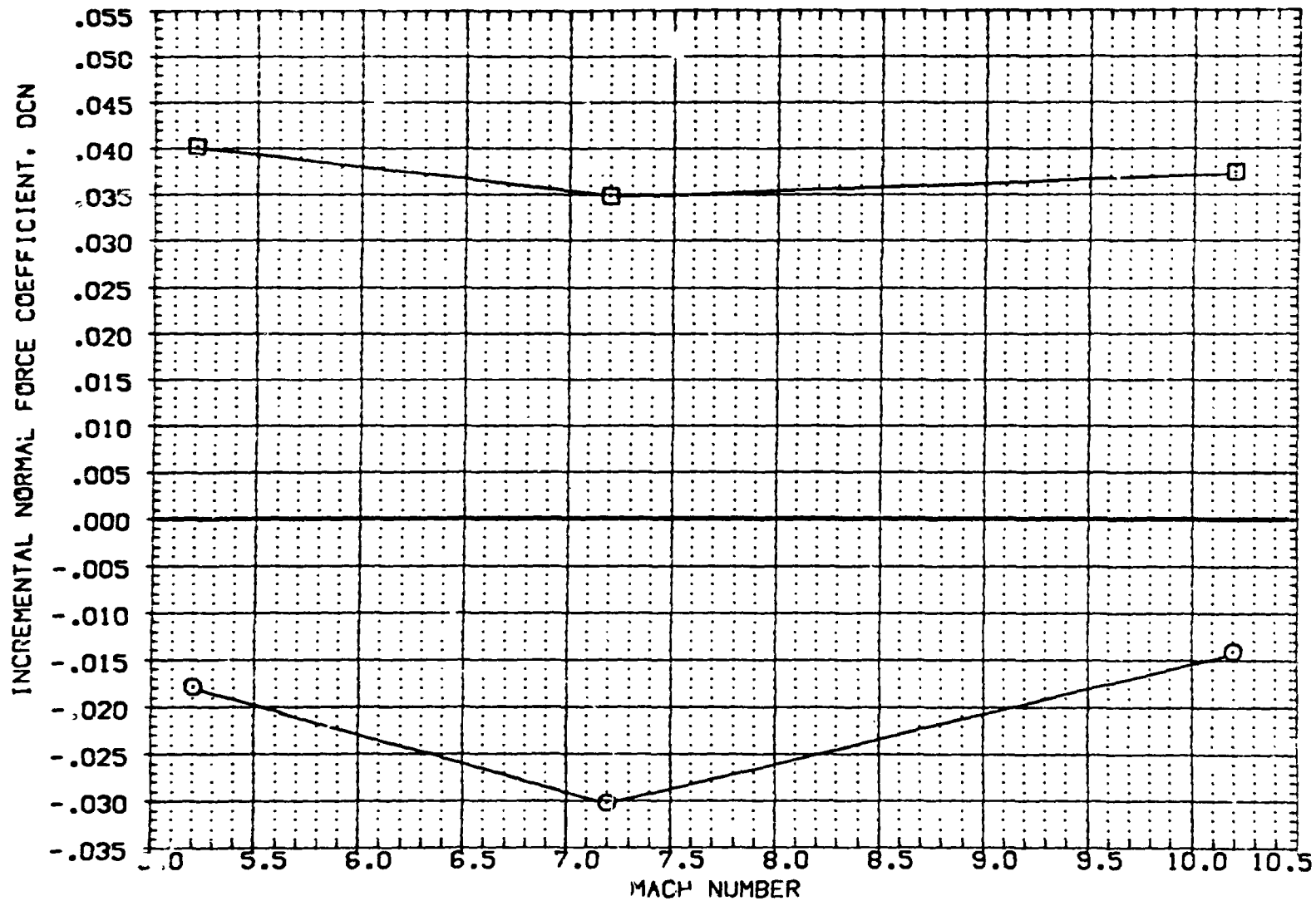


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107
(UB6008)	AMES3.5-168 0A23 822 C7 E23 F5 M4 R5 V7 V107

ELEVGN	DBF	SPOBRK	RUDDER
.000	-14.250	55.000	.000
.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1075.4000	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

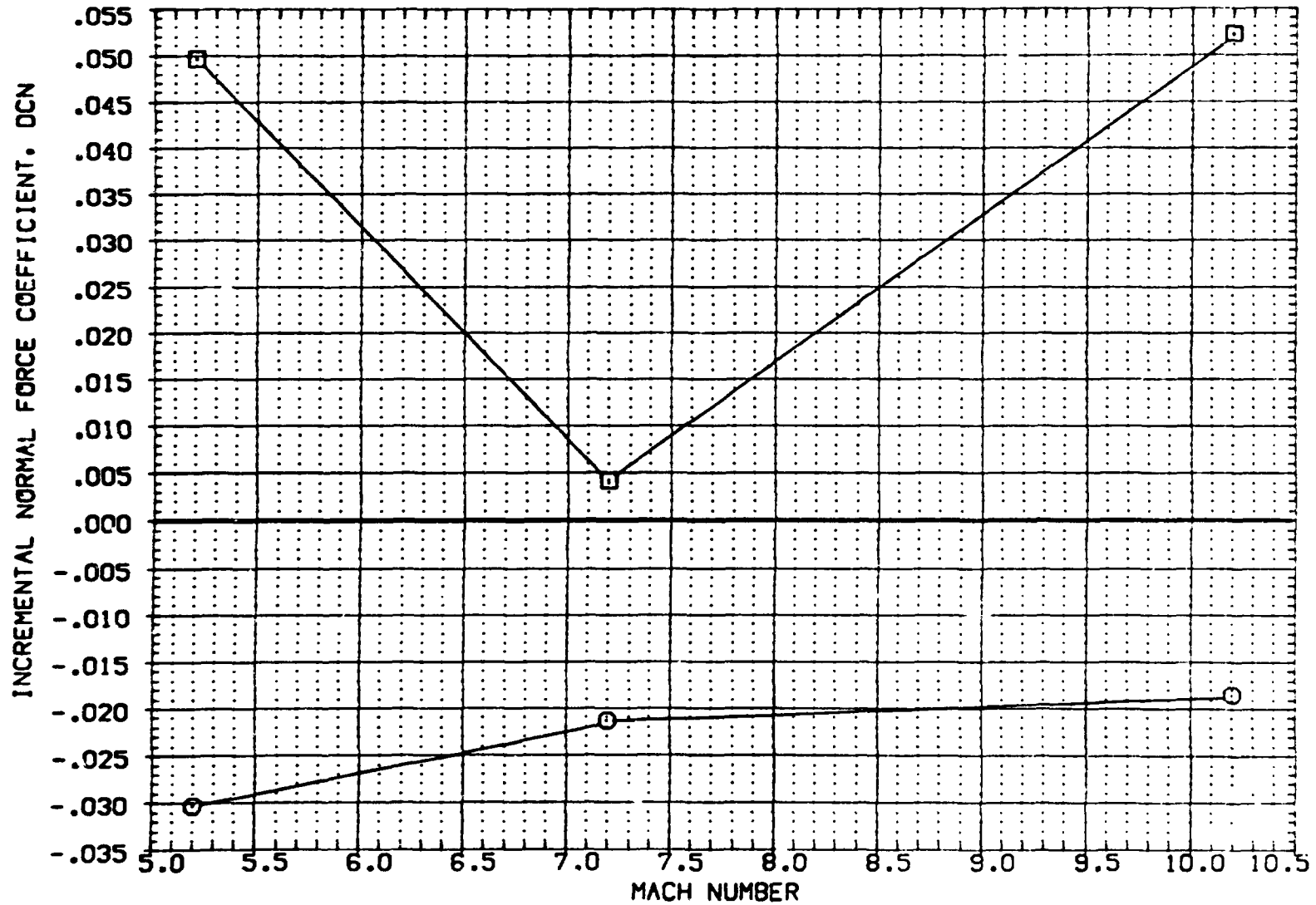


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(*)ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.0000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	

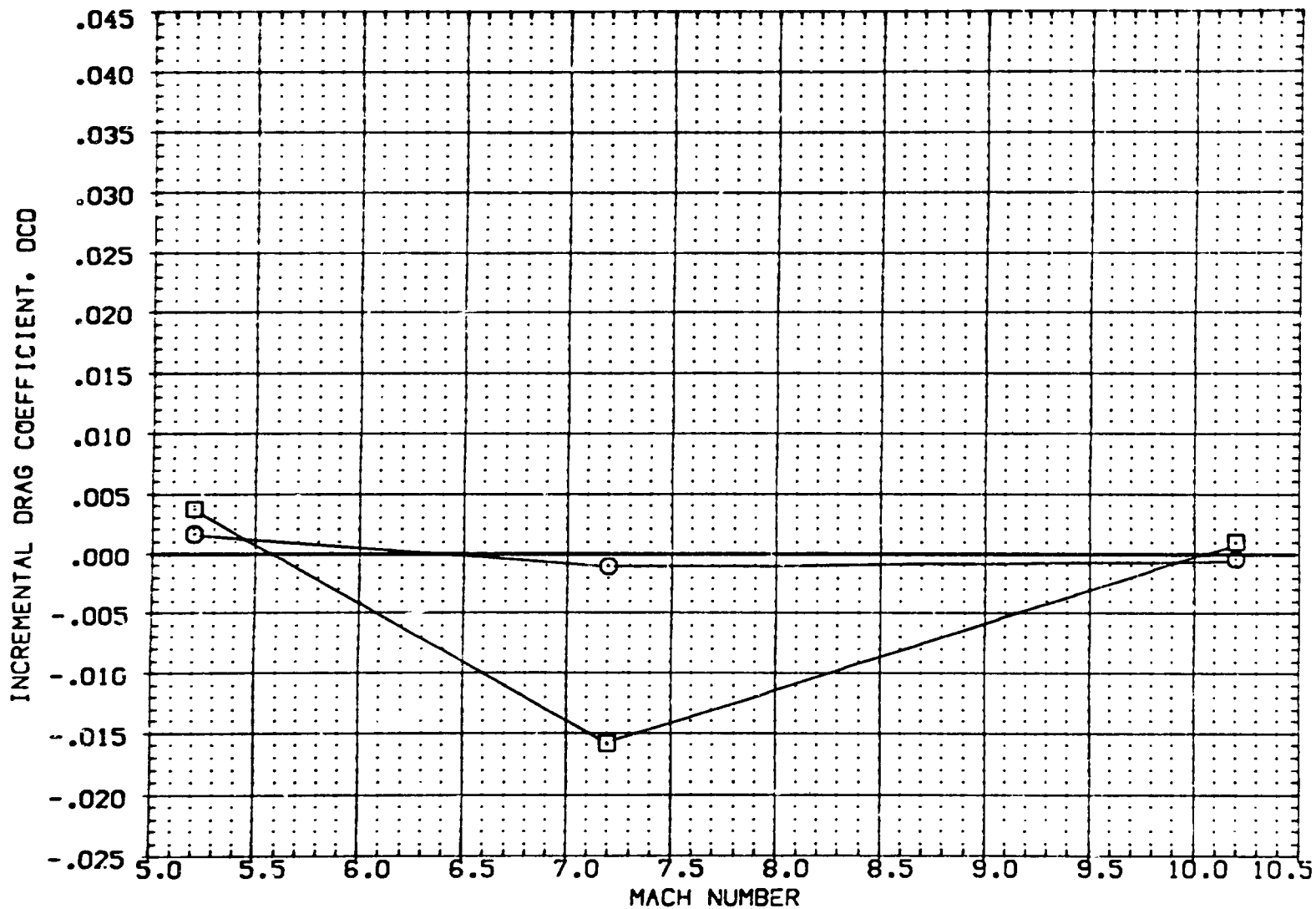


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6008)	AMES3.5-169 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6000 IN.
						XMRP 1076.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

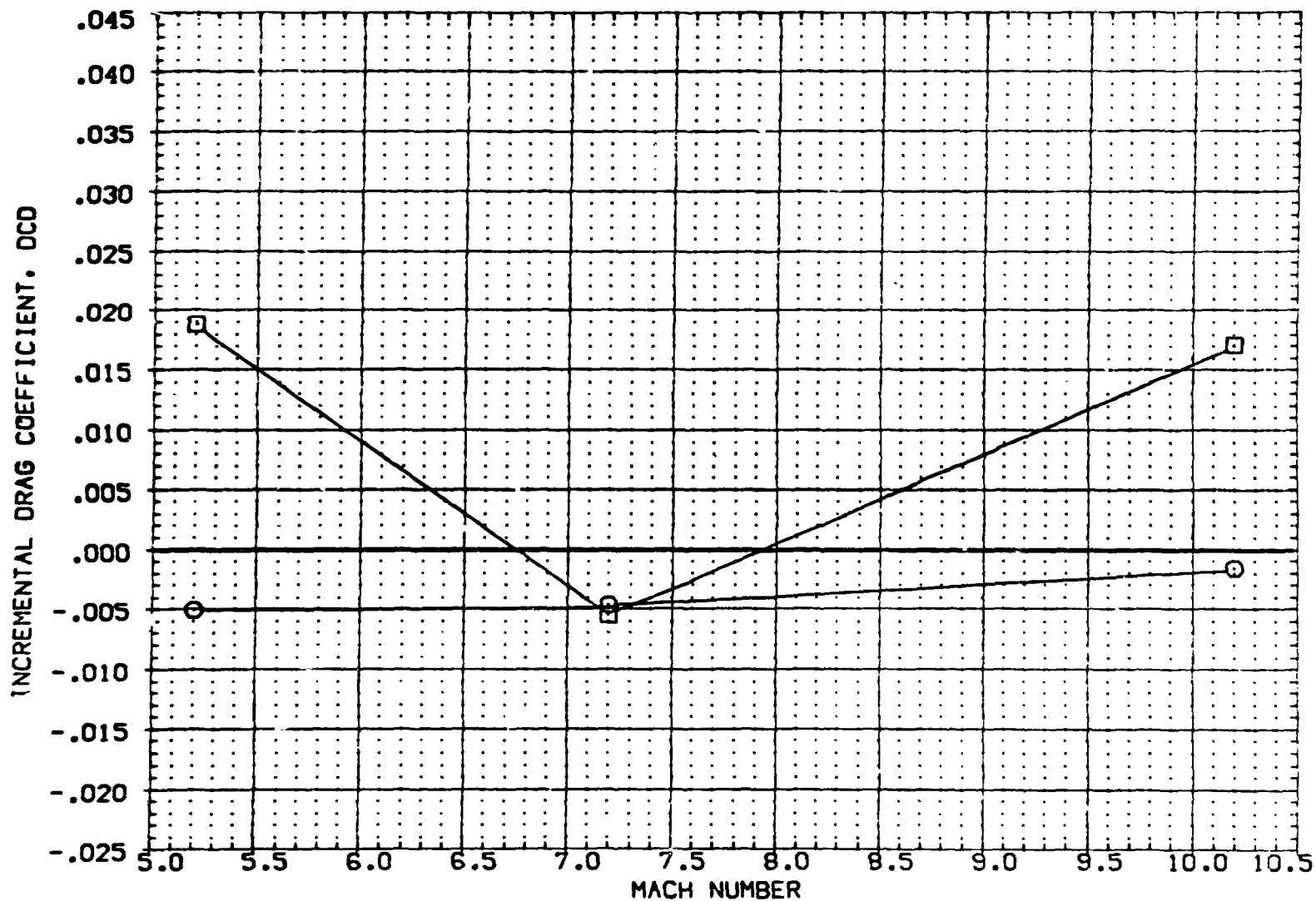


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	□ AMES3.5-1 68 0A23 822 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	GREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6000 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(UB6008)	○ AMES3.5-1 68 0A23 822 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	

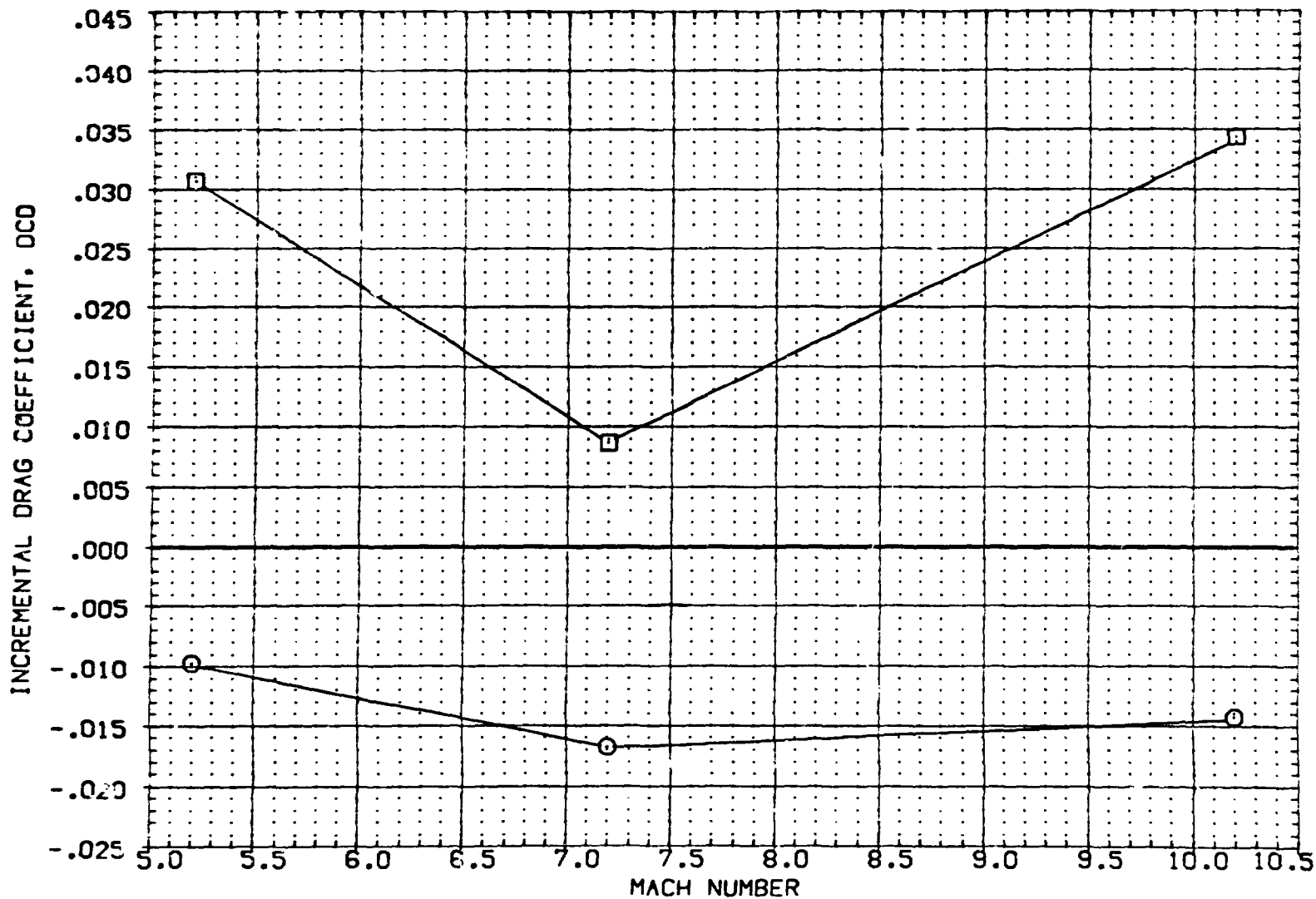


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
{UB6001}	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
{UB6008}	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.0000 IN.
						BREF 936.0000 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

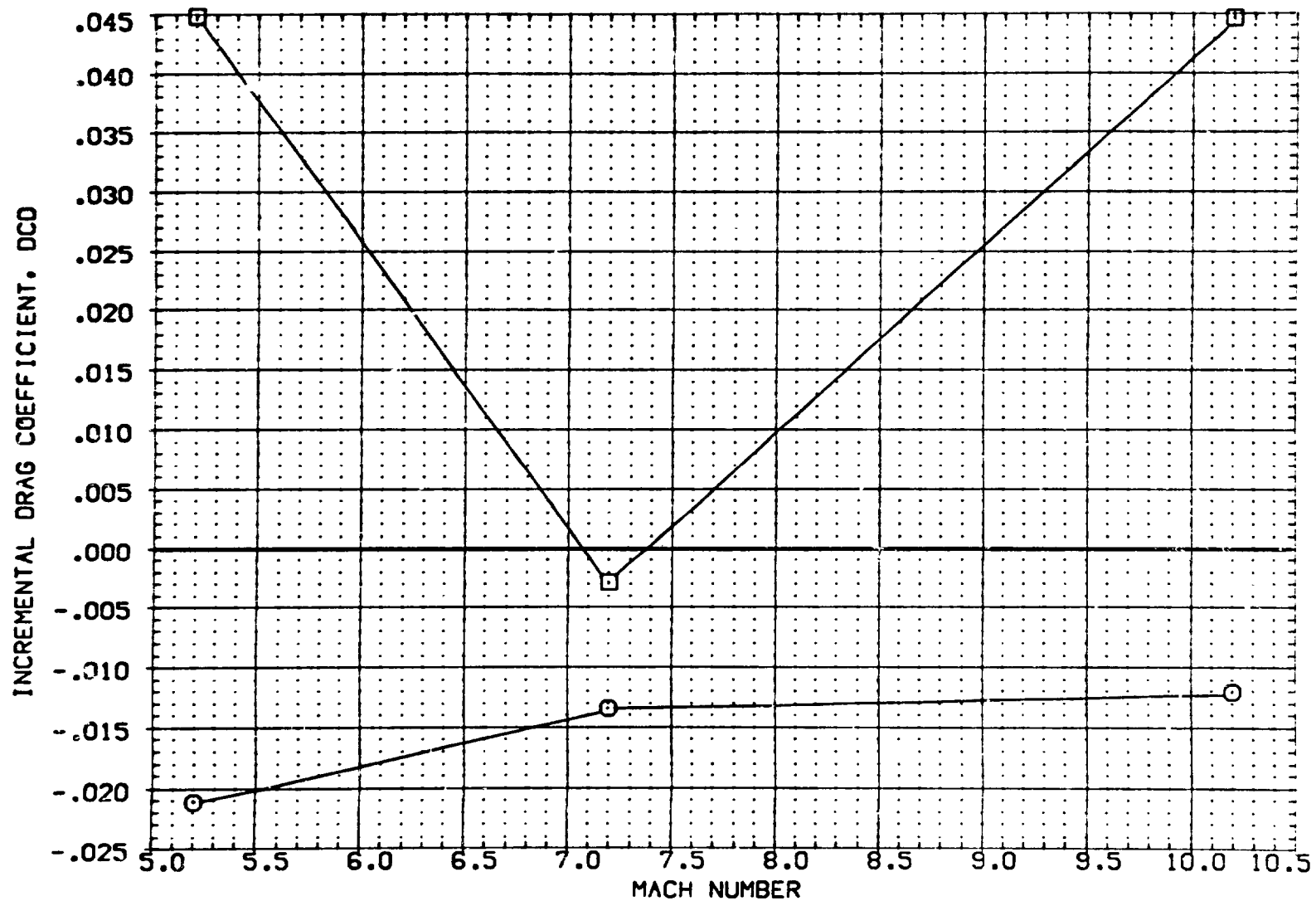


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(UB6006)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.6000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

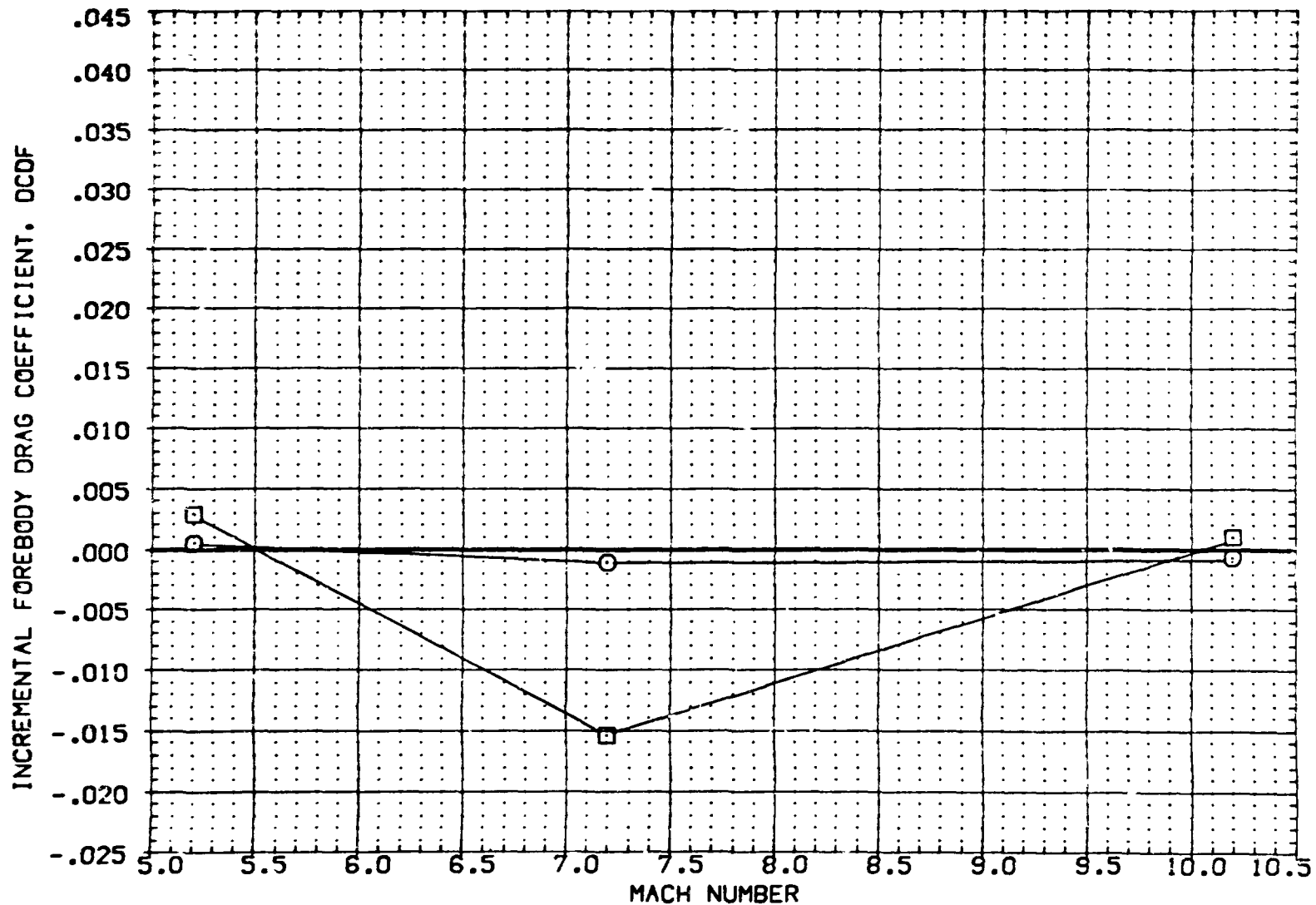


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMCL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 93.6800 IN.
						XMRP 107.8000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

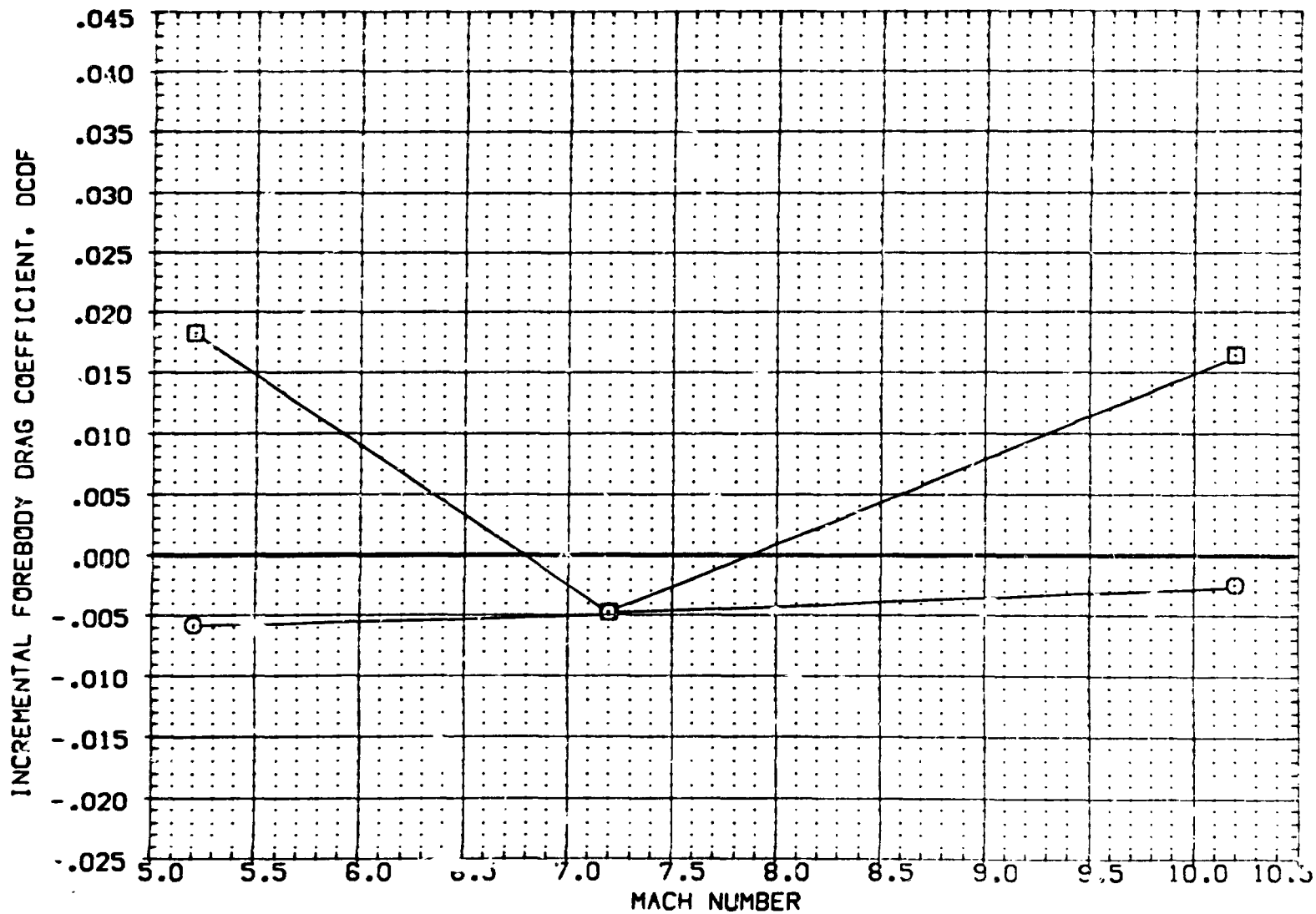


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B) ALPHA = 20.00

DATA SET SYMBO	CONFIGURATION DESCRIPTION	ELEVON	ORF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(UB6008)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 I.I.
						BREF 935.6900 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

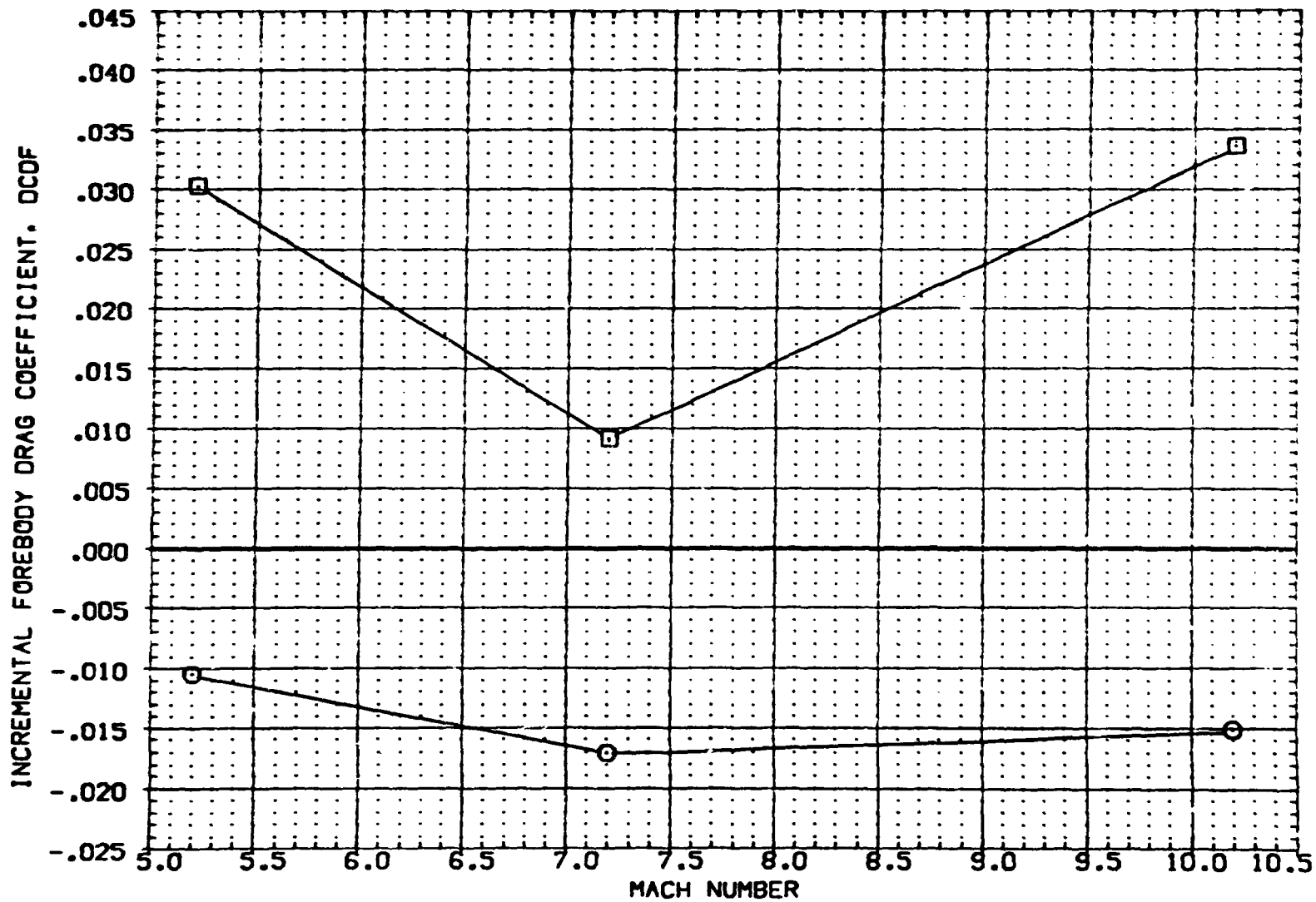


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	□ AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6008)	○ AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	.000	LREF 474.8000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

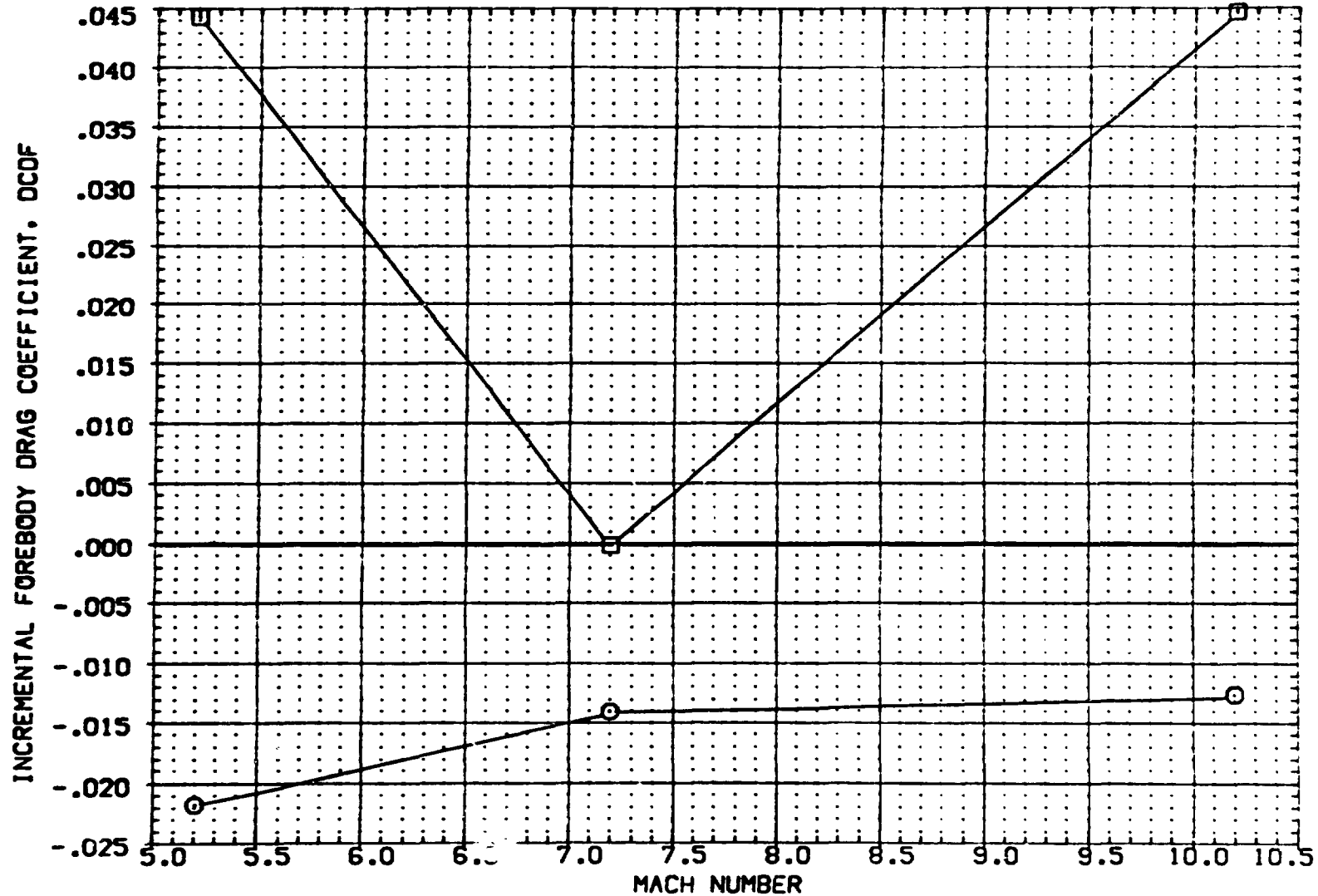


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(D) ALPHA = 40.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(LB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107
(LB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

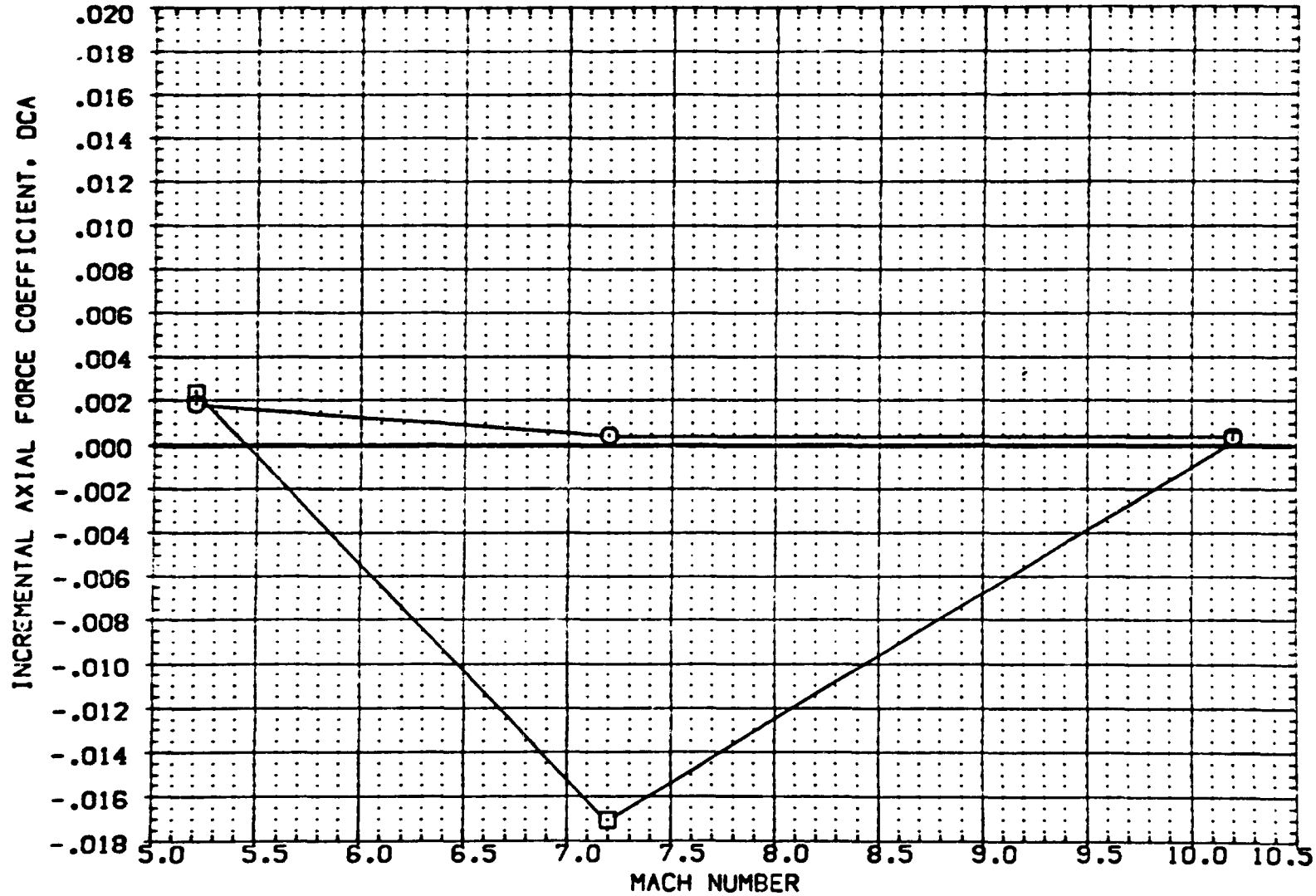


FIG. 5 BODY FLAP EFFECTS
(A) ALPHA = 10.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6900 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

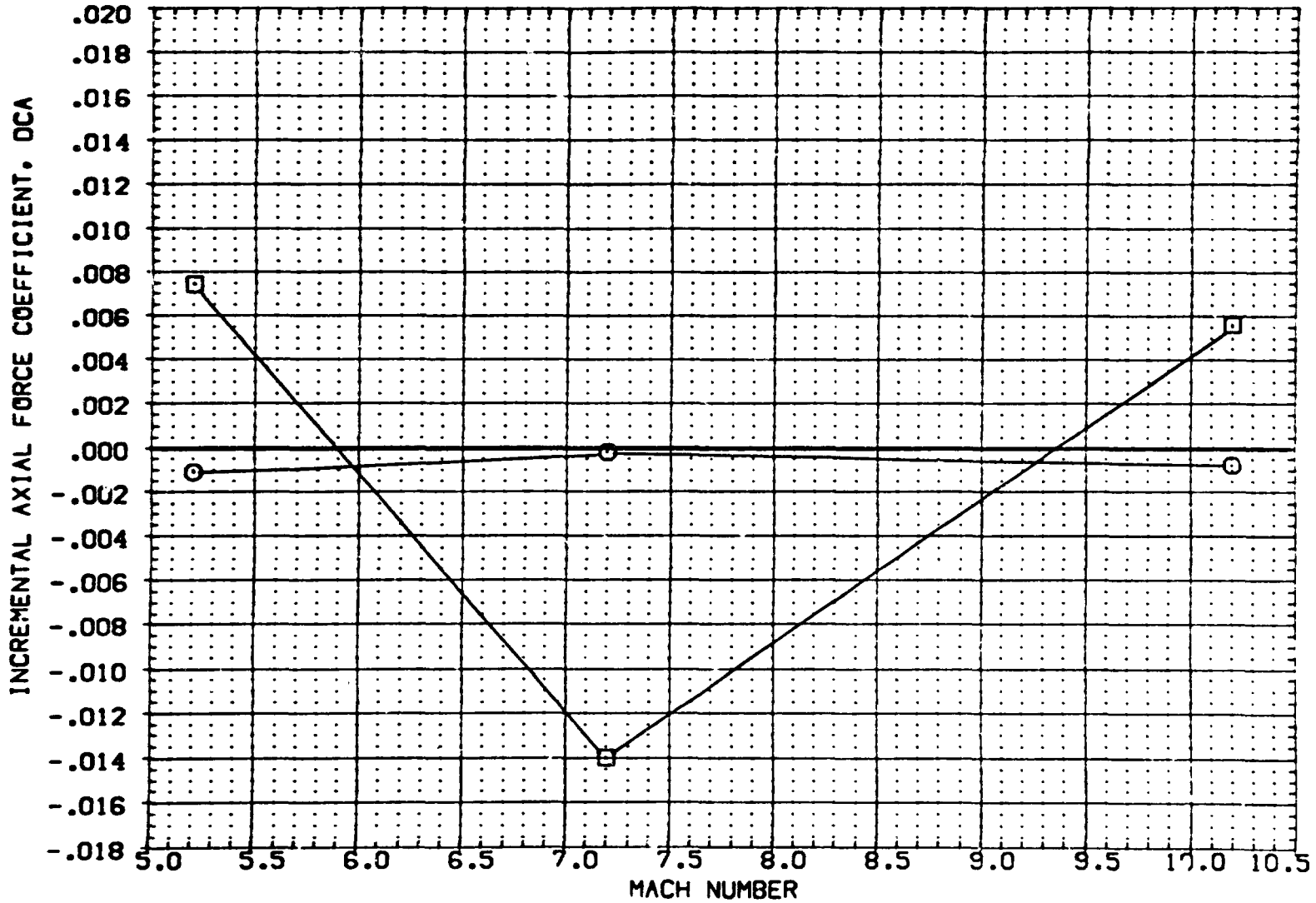


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (UB6001) □ AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107
 (UB6008) ○ AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON DBF SPOBRK RUDDER
 .000 -14.250 55.000 .000
 .000 13.750 55.000 .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 IN.
 BREF 936.6800 IN.
 XMRP 1076.4800 IN.
 YMRP .0000 IN.
 ZMRP 400.0000 IN.
 SCALE .0150 SCALE

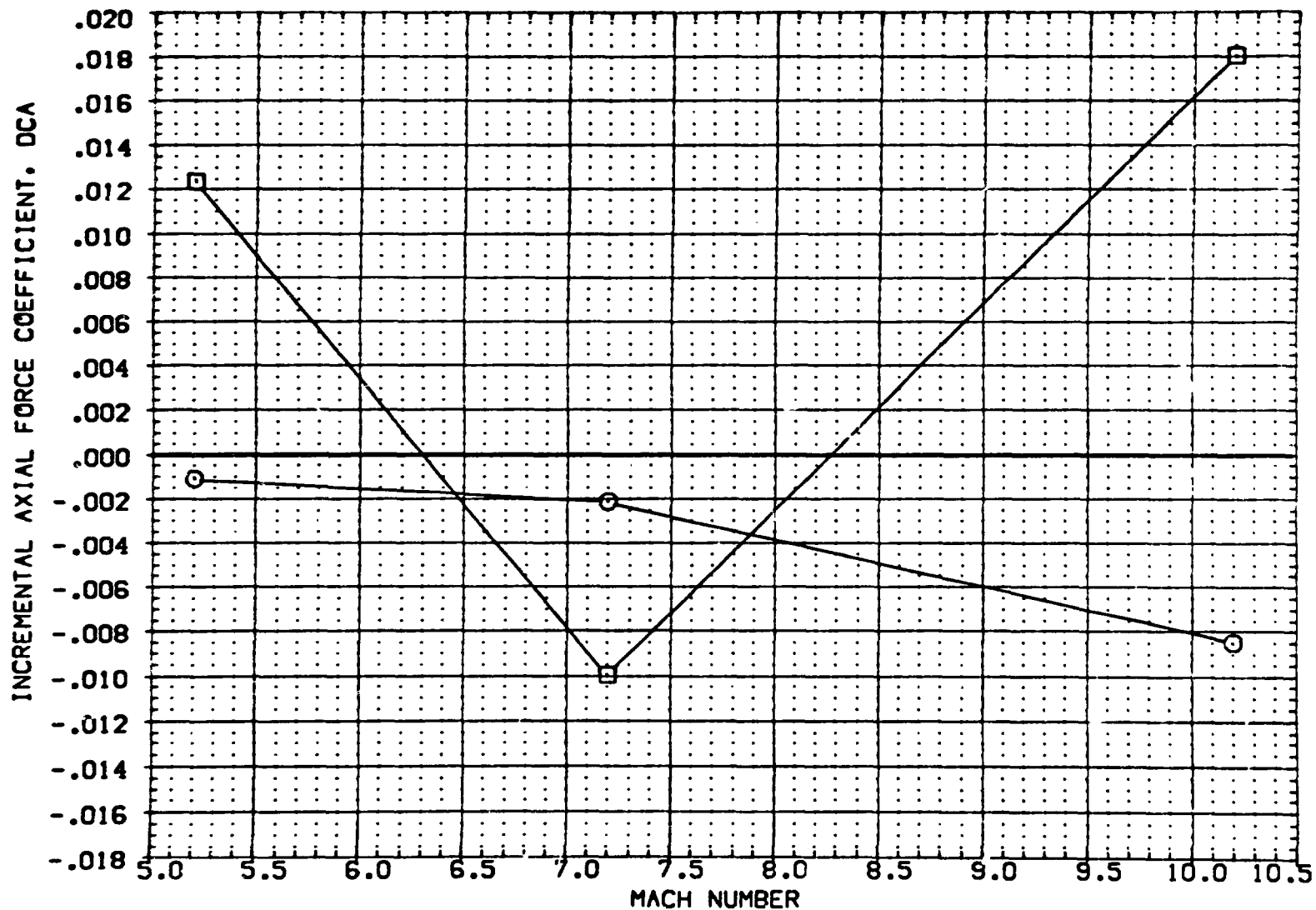


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SFOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6900 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

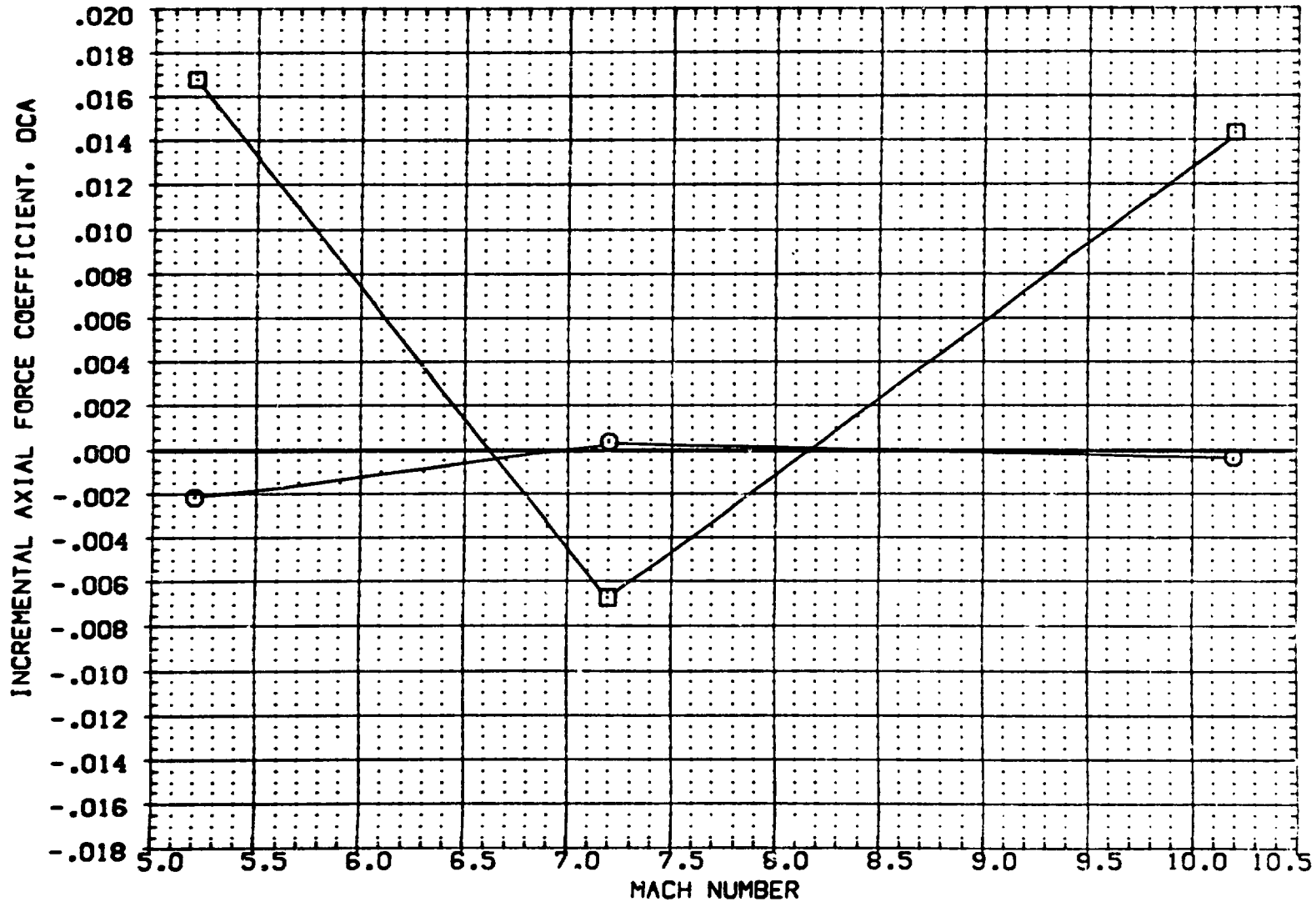


FIG. 5 BODY FLAP EFFECTS
(O) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(U86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107
(U86008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107

ELEVON	DBF	SPOBRN	RUDDER
.000	-14.250	55.000	.000
.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6900	IN.
XMRP	1076.4900	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

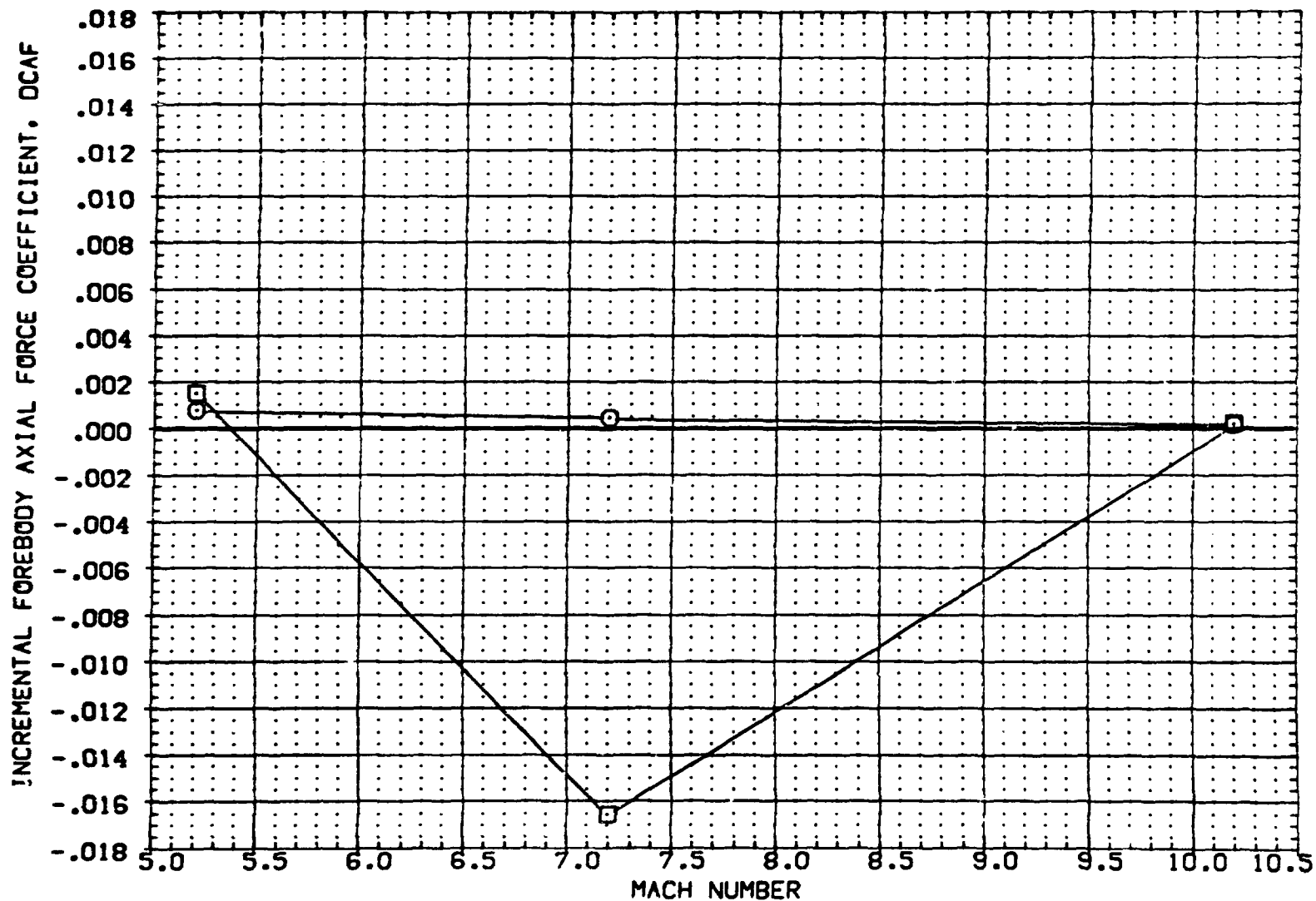


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86008)	○ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 935.8000 IN.
						XMRP 1076.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

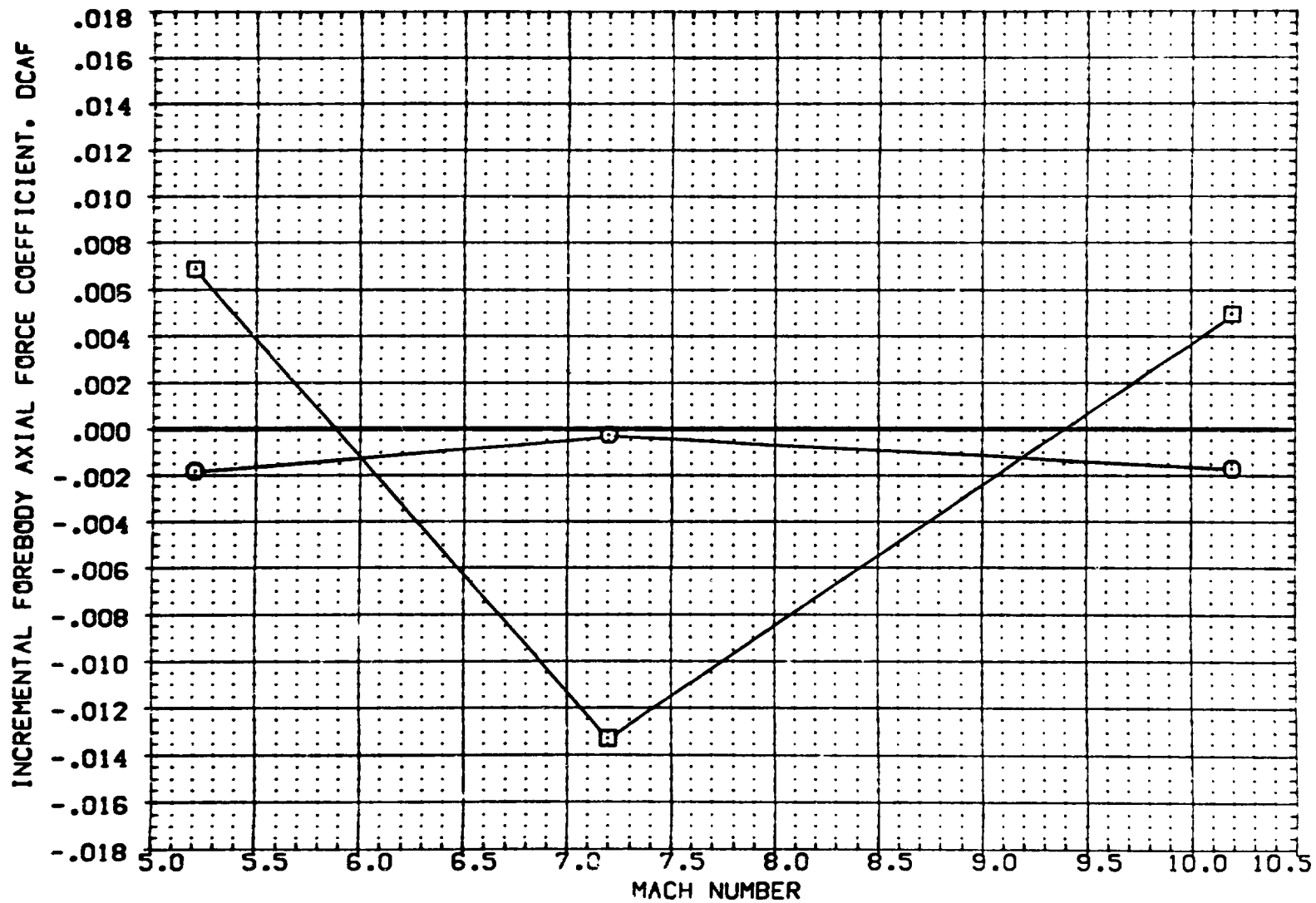
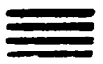


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(L86001)	○ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107
(L86008)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

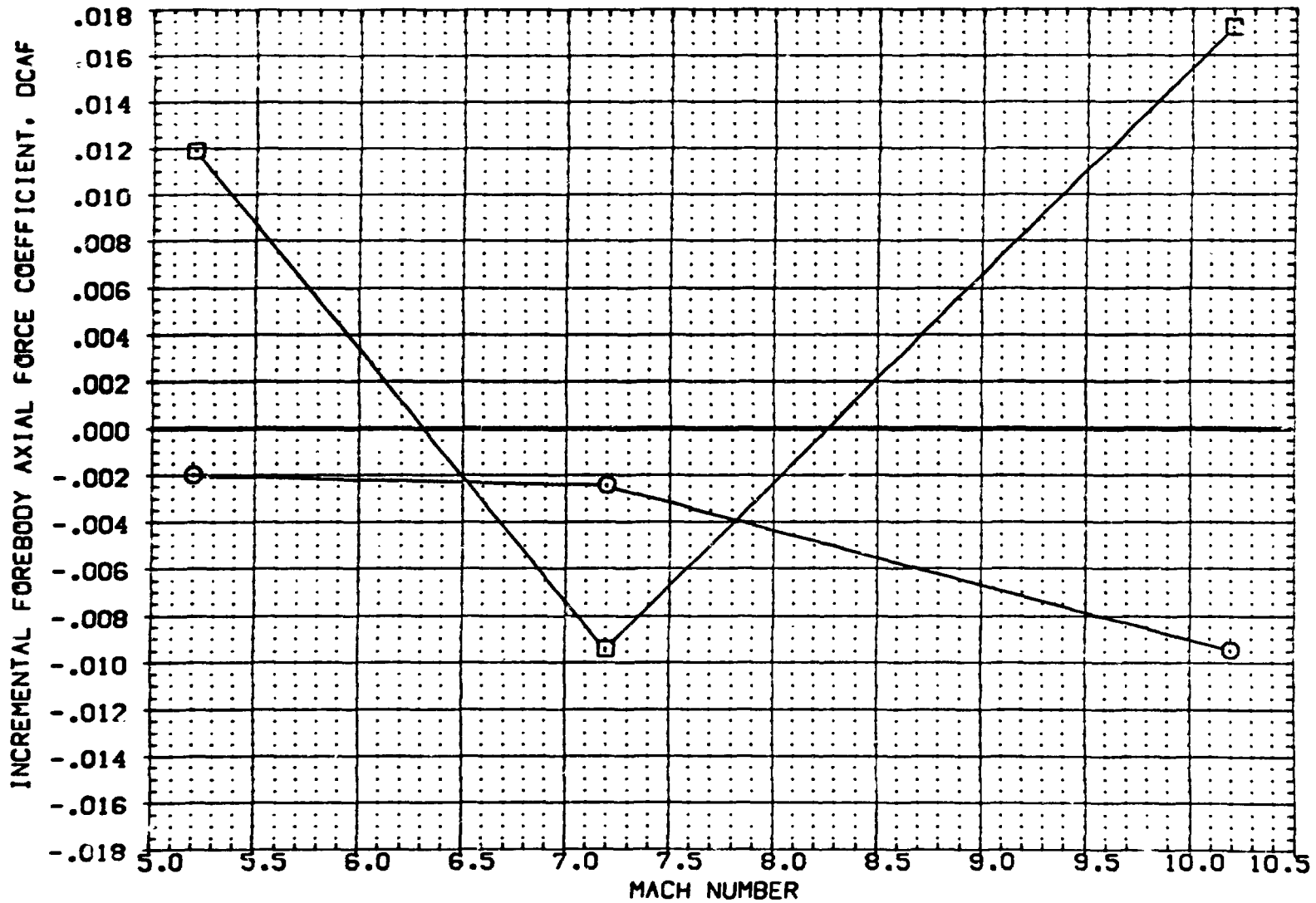


FIG. 5 BODY FLAP EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6001)	AMES3.5-168 GA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6008)	AMES3.5-168 JA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

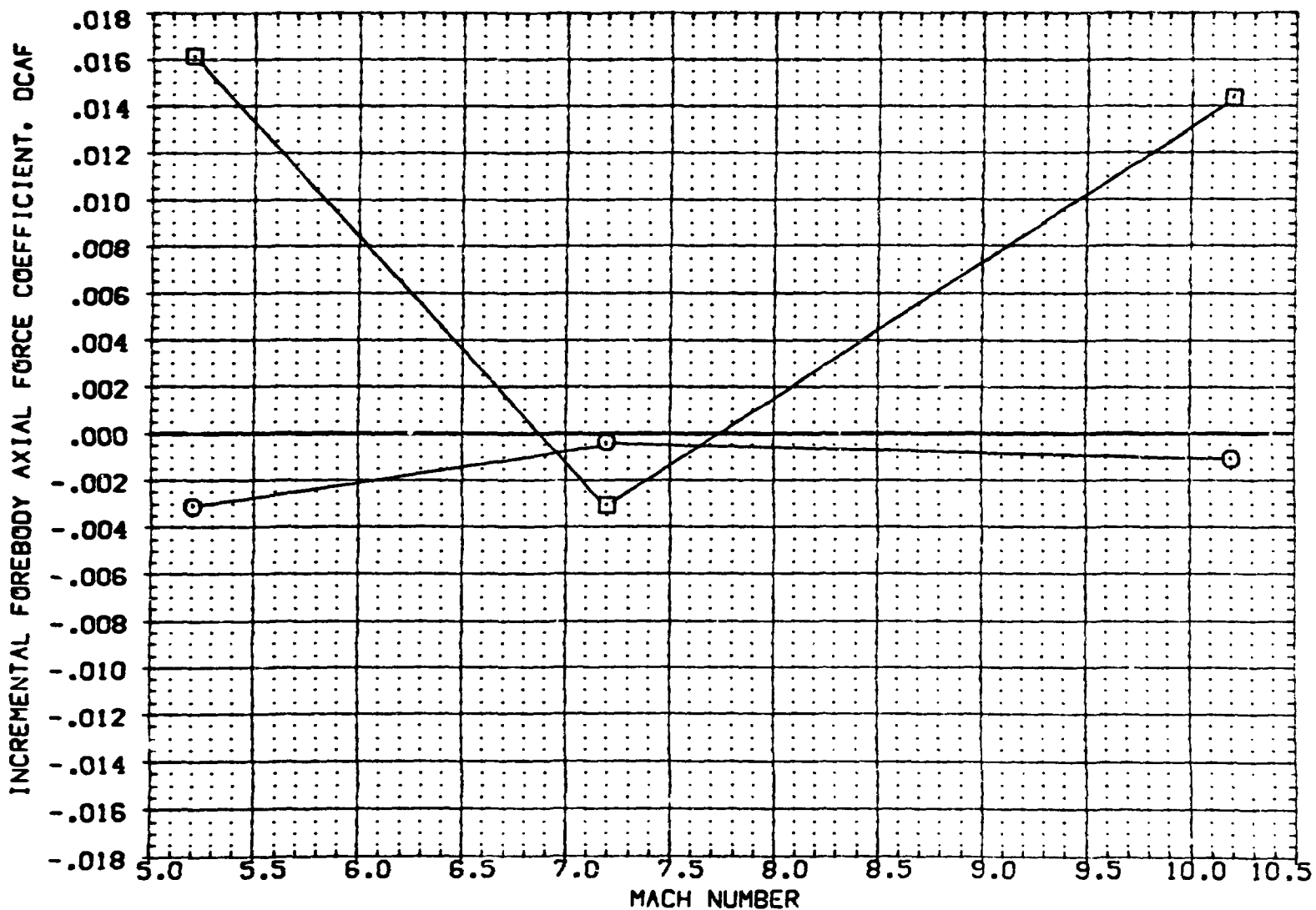


FIG. 5 BODY FLAP EFFECTS

(O) ALPHA = 40.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DEF	SPOBRK	RUDDER	REFERENCE INFORMATION	
.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF	474.8000 IN.
				BREF	936.6800 IN.
				XMRP	1076.4800 IN.
				YMRP	.0000 IN.
				ZMRP	400.0000 IN.
				SCALE	.0150 SCALE

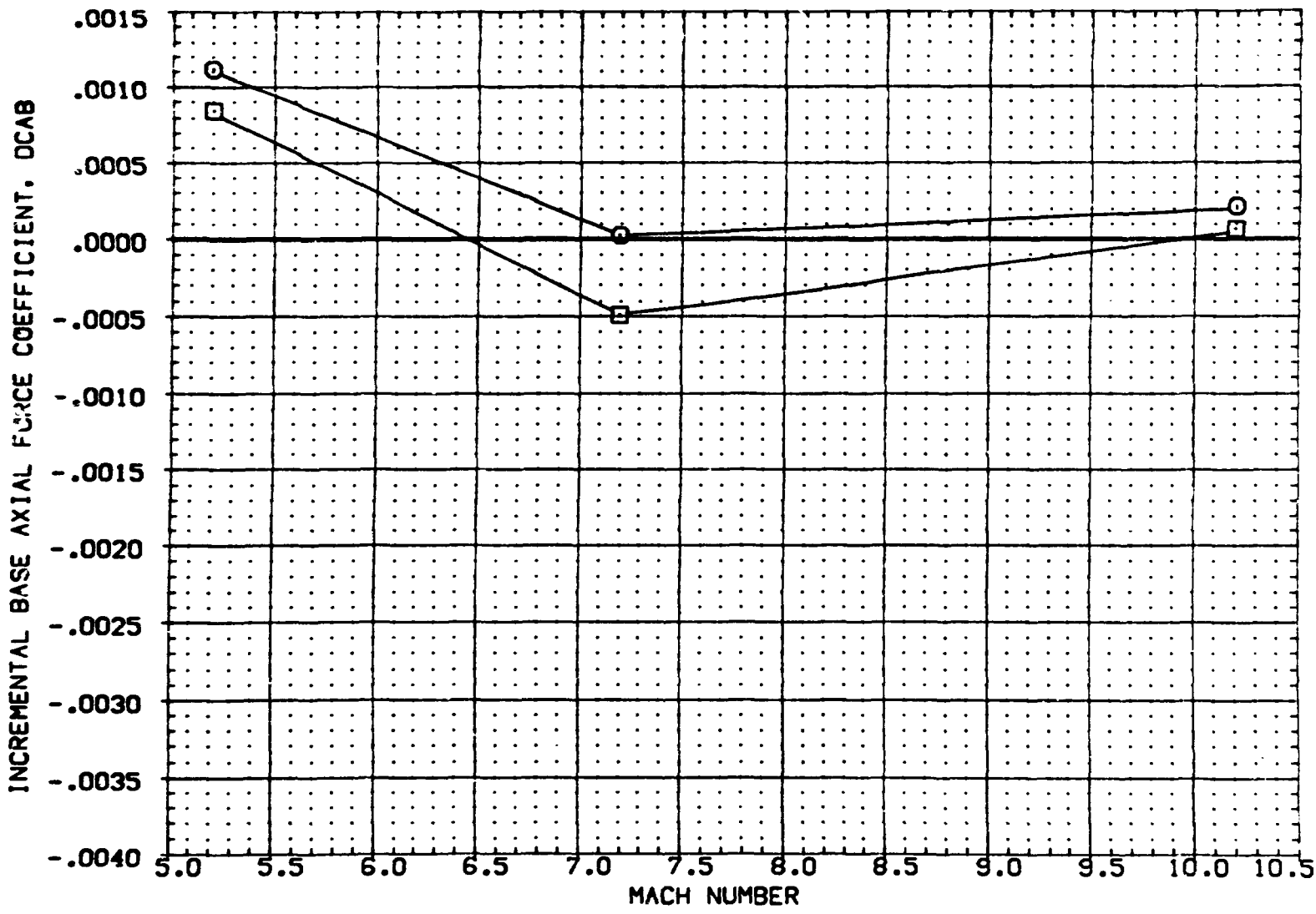


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION	
(UB6001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(UB6008)	○ AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	.000	LREF	474.8000 IN.	
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

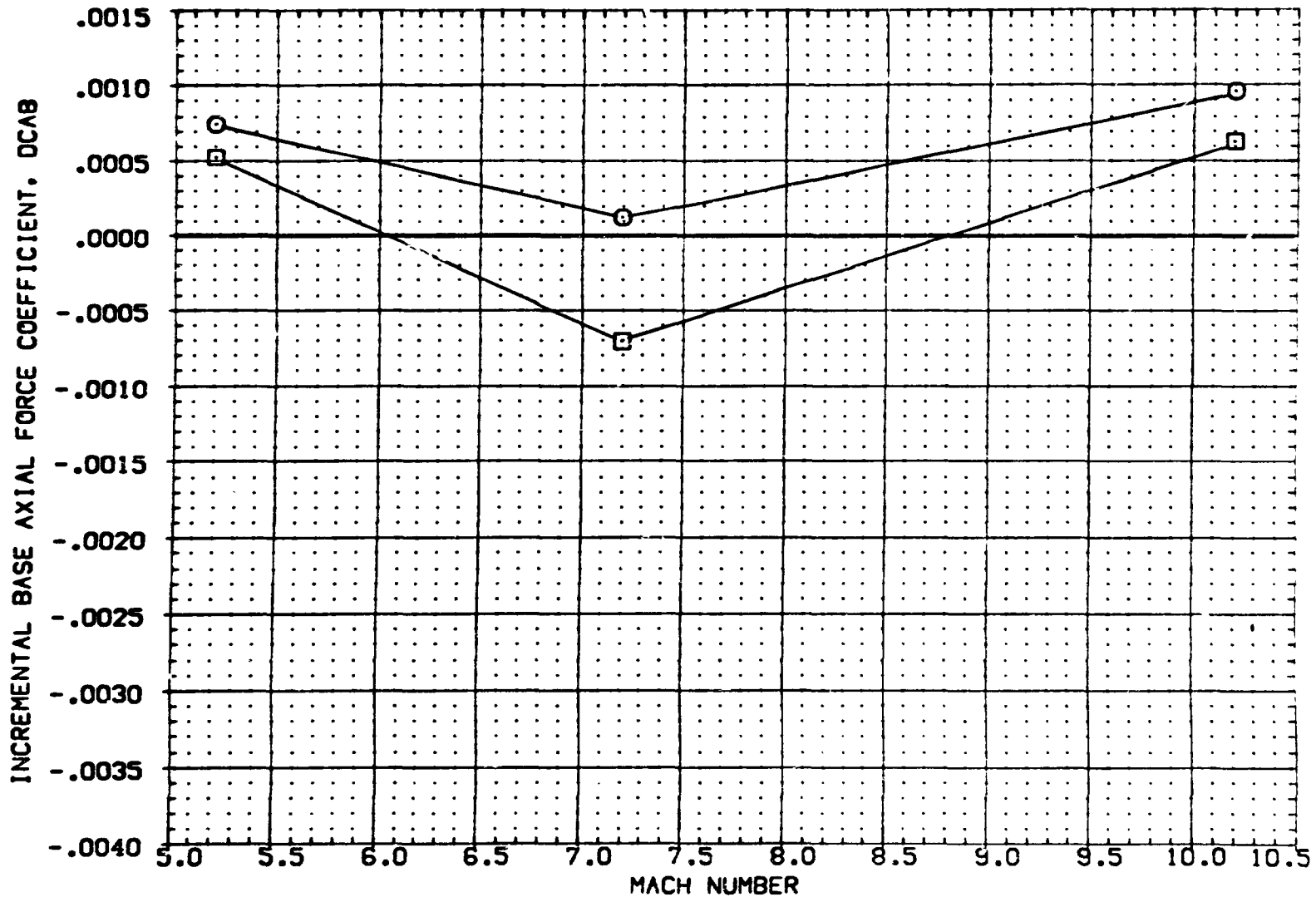


FIG. 5 BODY FLAP EFFECTS
(B) ALPHA = 20.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
{UB6001}	○ AMES3,5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107
{UB6008}	□ AMES3,5-168 OA23 822 C7 E23 F5 M4 R5 V7 V107

ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6000 IN.
				XMRP 1076.4900 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

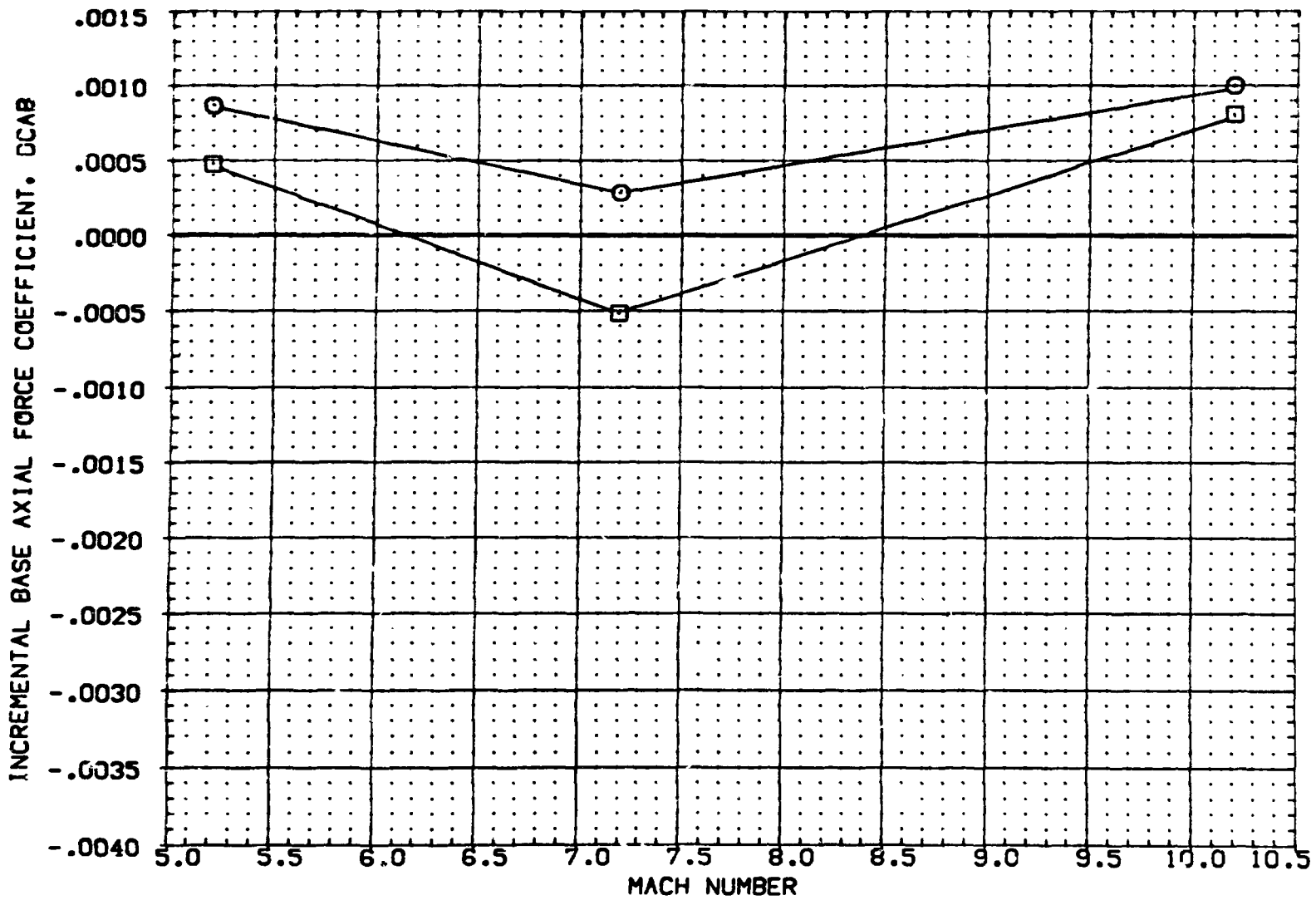


FIG. 5 BODY FLAP EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (L06001) \square NRES. 3-188 8AZ. 822 87 823 73 31 28 57 5197
 (L06008) \square NRES. 3-188 8AZ. 822 87 823 73 31 28 57 5197

C.F. NO. 19.756
 SPC. NO. 55.000
 P. NO. 180

REFERENCE INFORMATION
 SREF 2680.0000 SQ. FT.
 LREF 474.8000 IN.
 BREF 836.6000 IN.
 XREF 1076.4800 IN.
 YREF .0000 IN.
 ZREF 400.0000 IN.
 SCALE .0150 SCALE

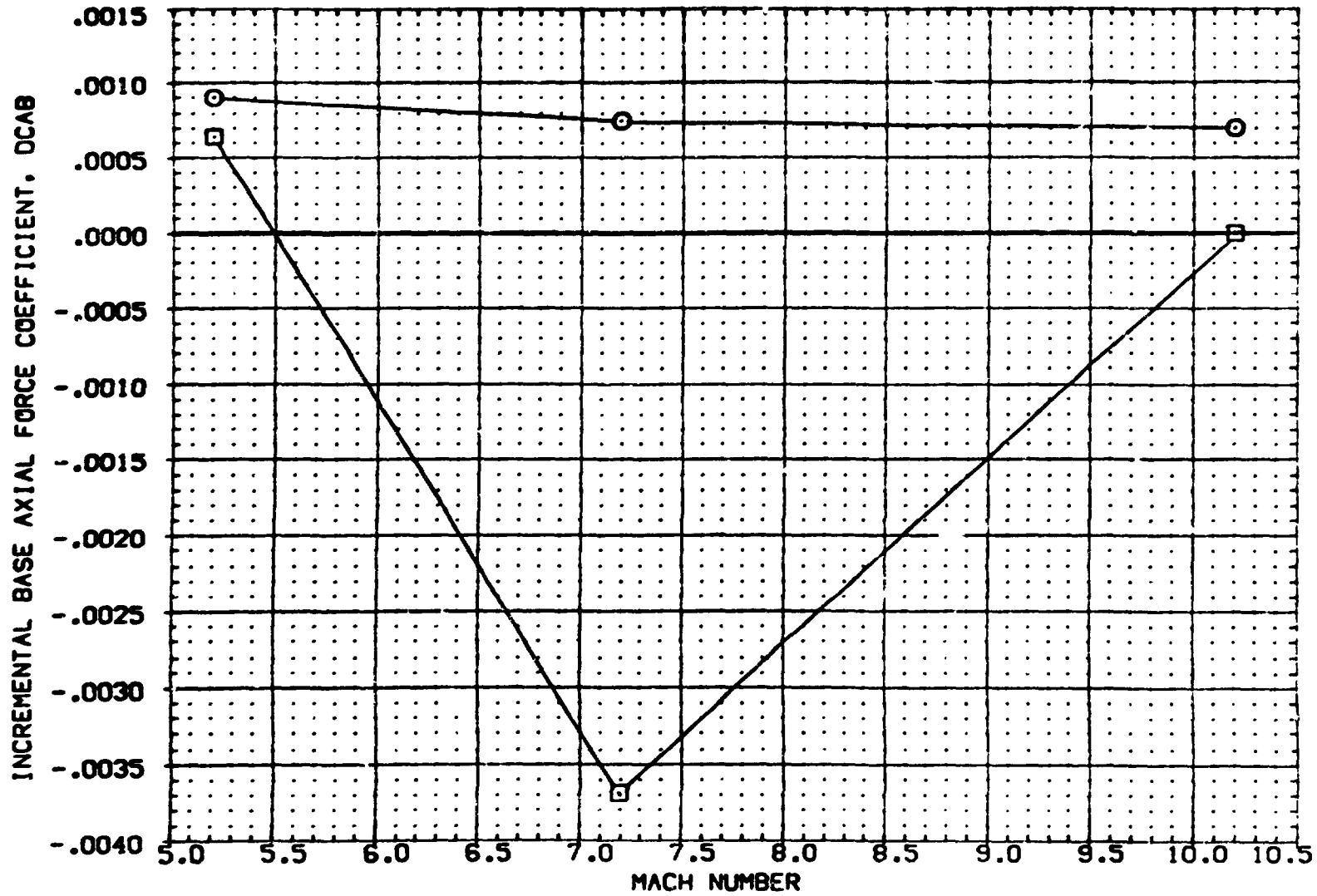


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6001)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6008)	AMES3.5-168 DA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4900 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

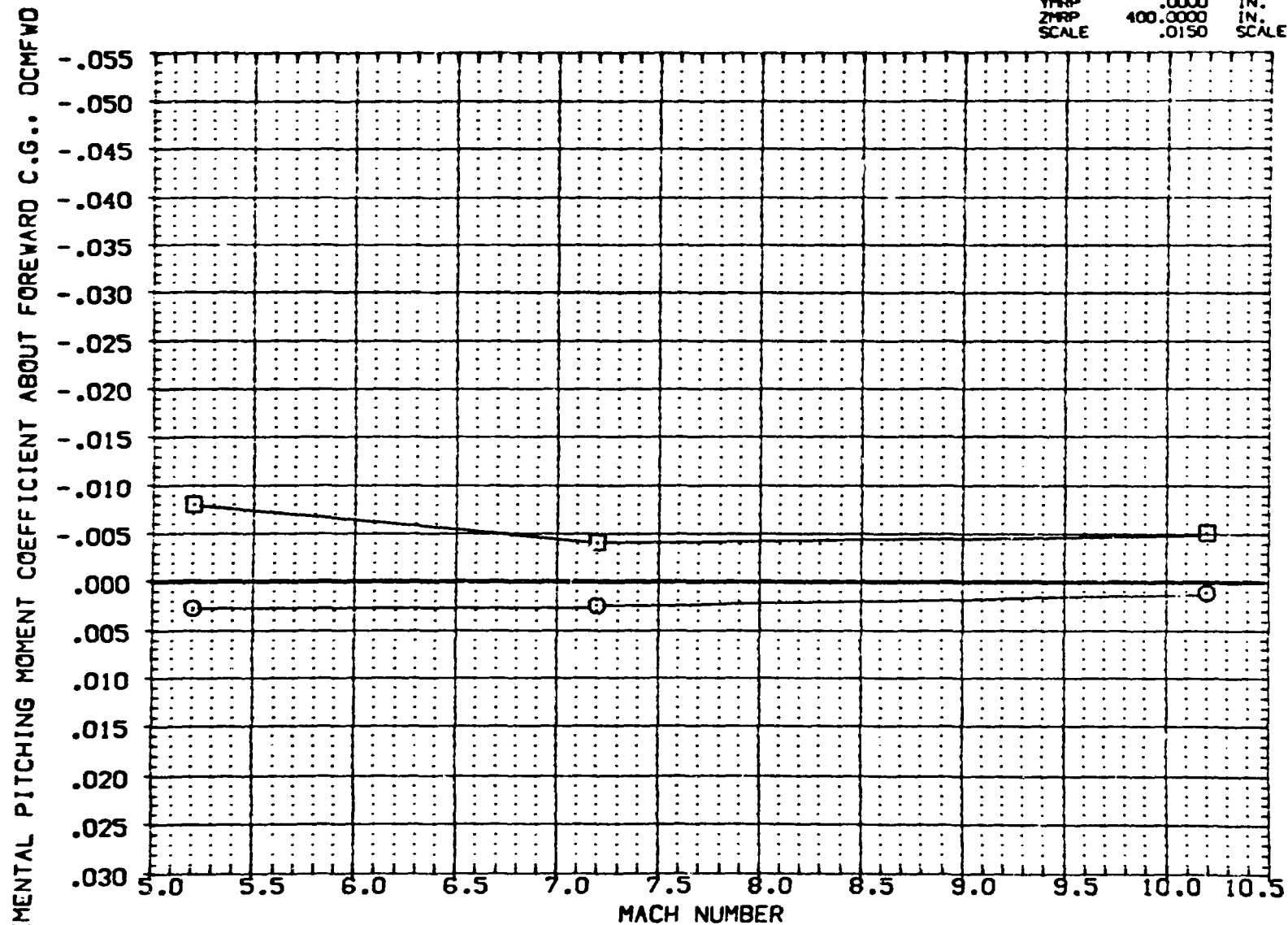


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6008)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6000 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

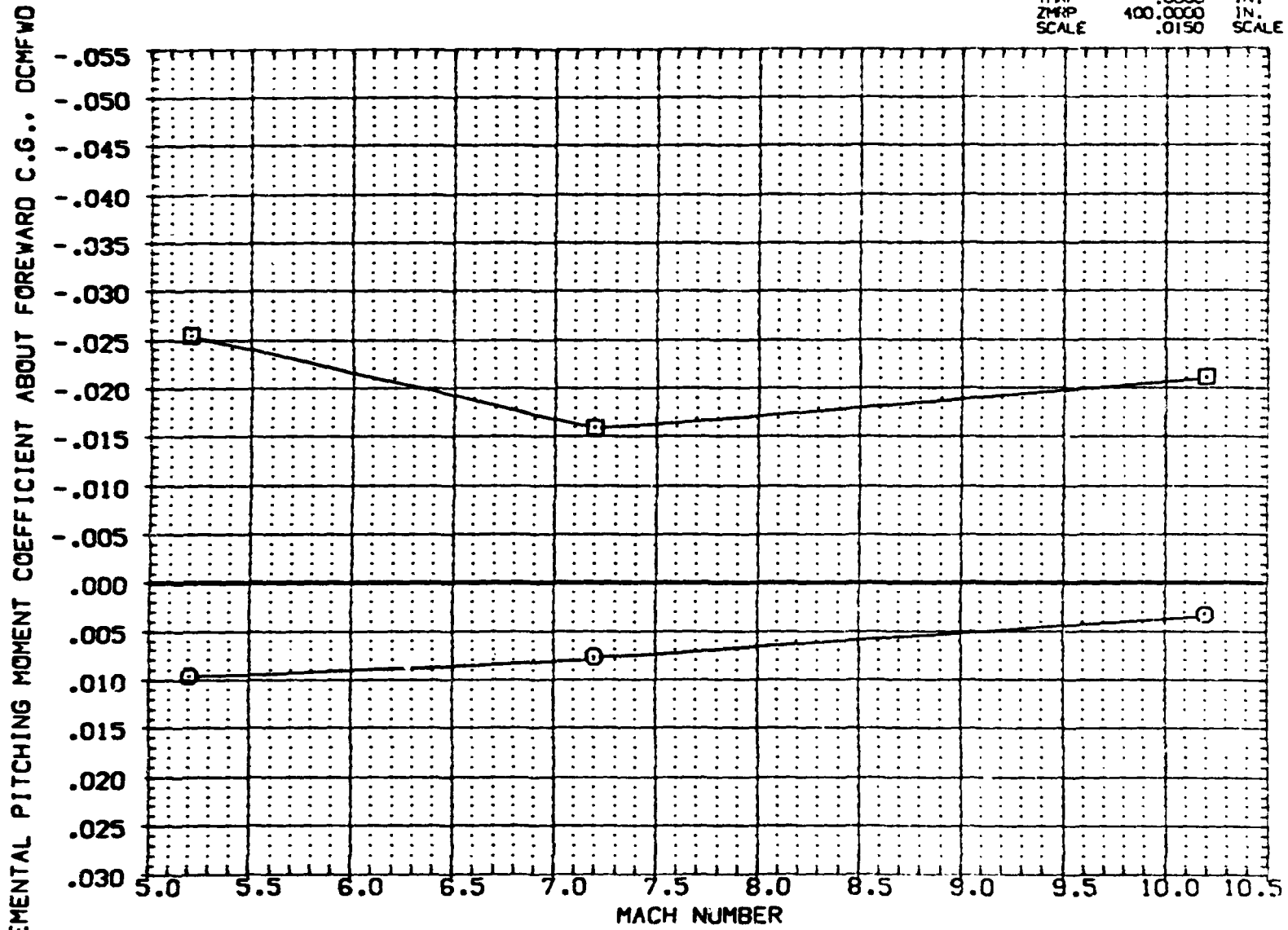


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

(B) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(LB6001)	AMES3.5 168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(LB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER
.000	-14.280	55.000	.000
.000	13.750	55.000	.000

REFERENCE INFORMATION	
SREF	2630.0000 SQ.FT.
LREF	474.8000 IN.
BREF	936.6800 IN.
XMRP	1076.4800 IN.
YMRP	.0000 IN.
ZMRP	400.0000 IN.
SCALE	.0150 SCALE

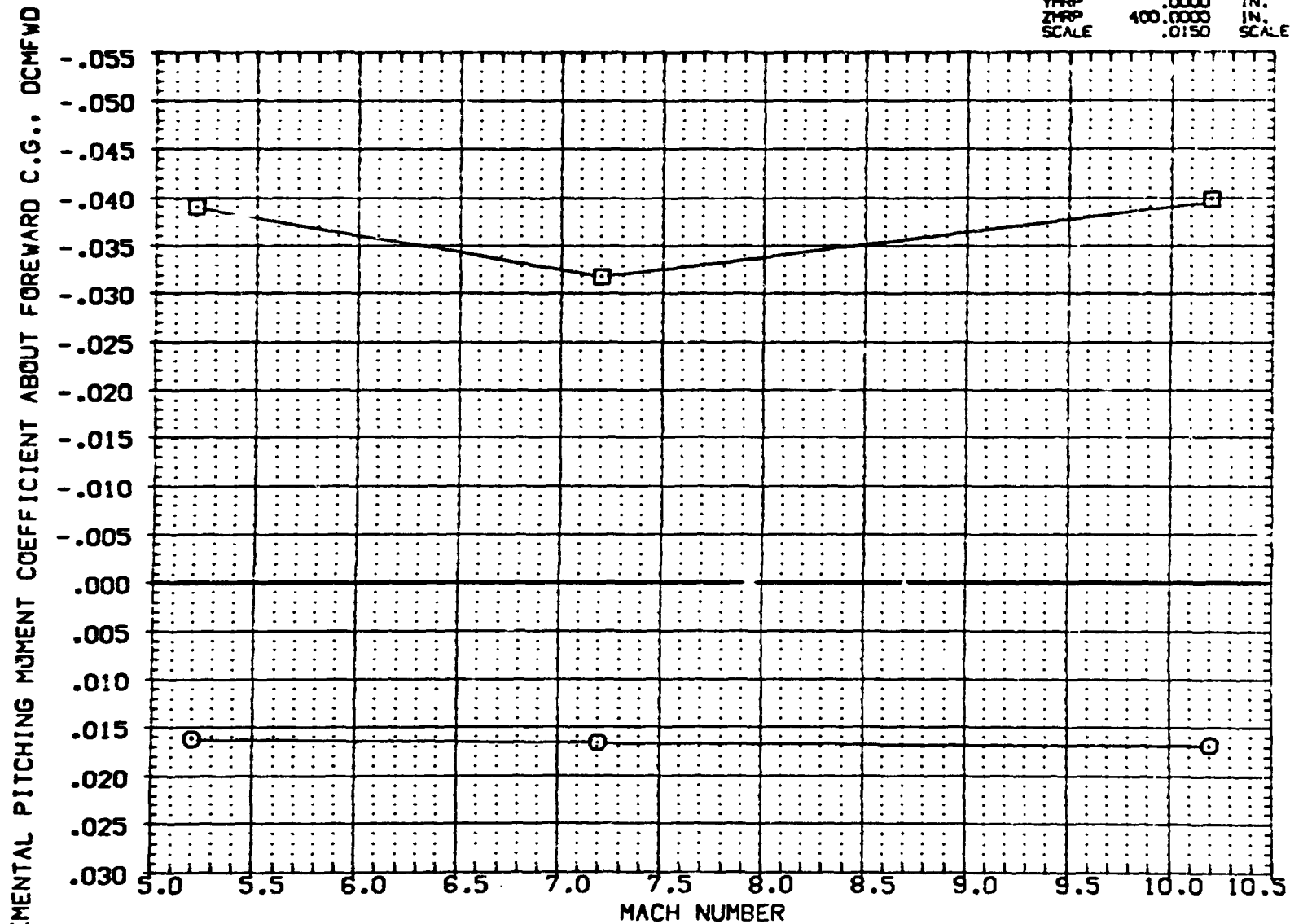


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(C)ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107
(UB6008)	AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

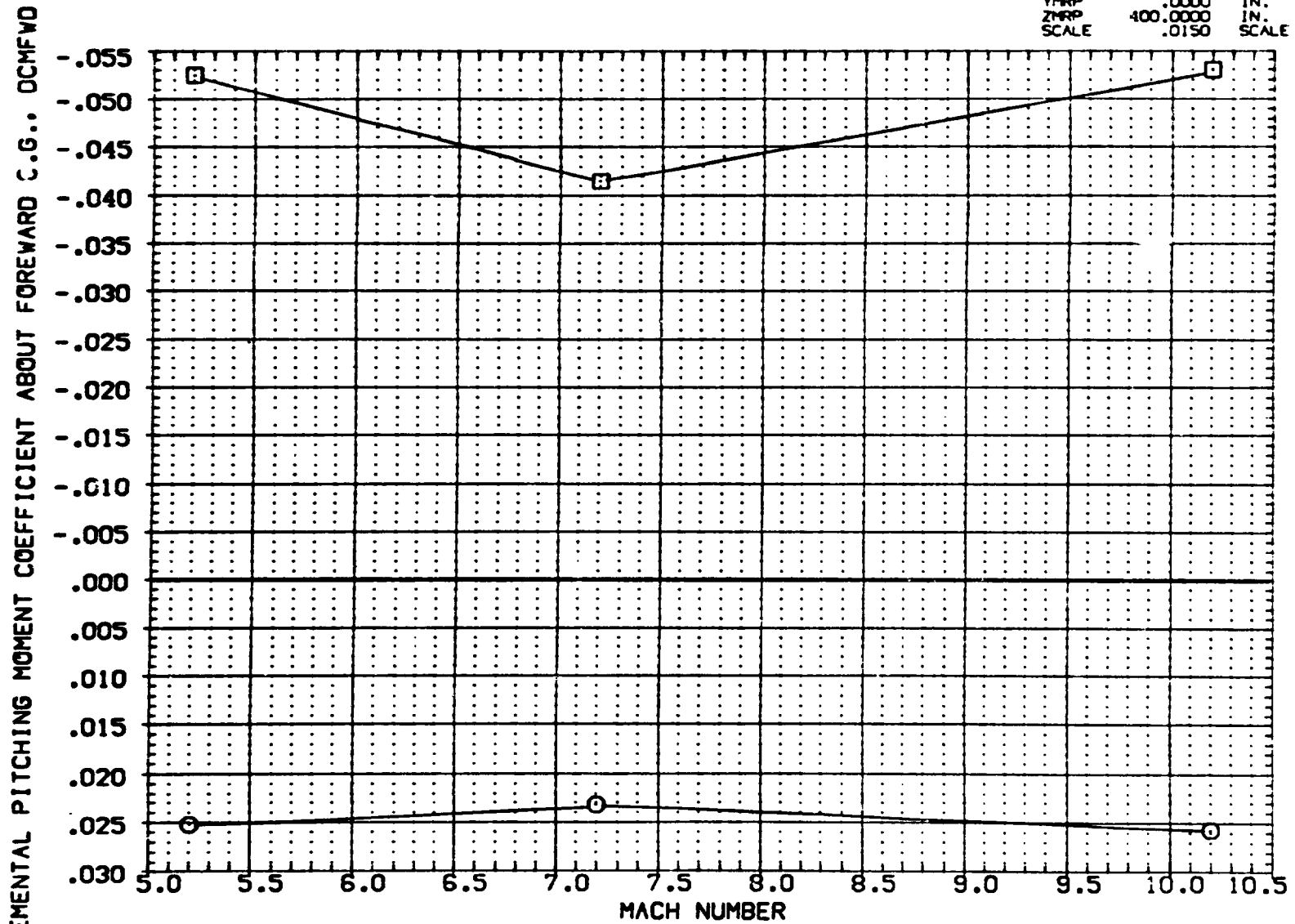


FIG. 5 BODY FLAP EFFECTS
 147B CONFIGURATION (0.015-SCALE).
 (D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6001)	□ AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(UB6008)	□ AMES3.5-168 0A23 B22 C7 E23 F5 H4 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

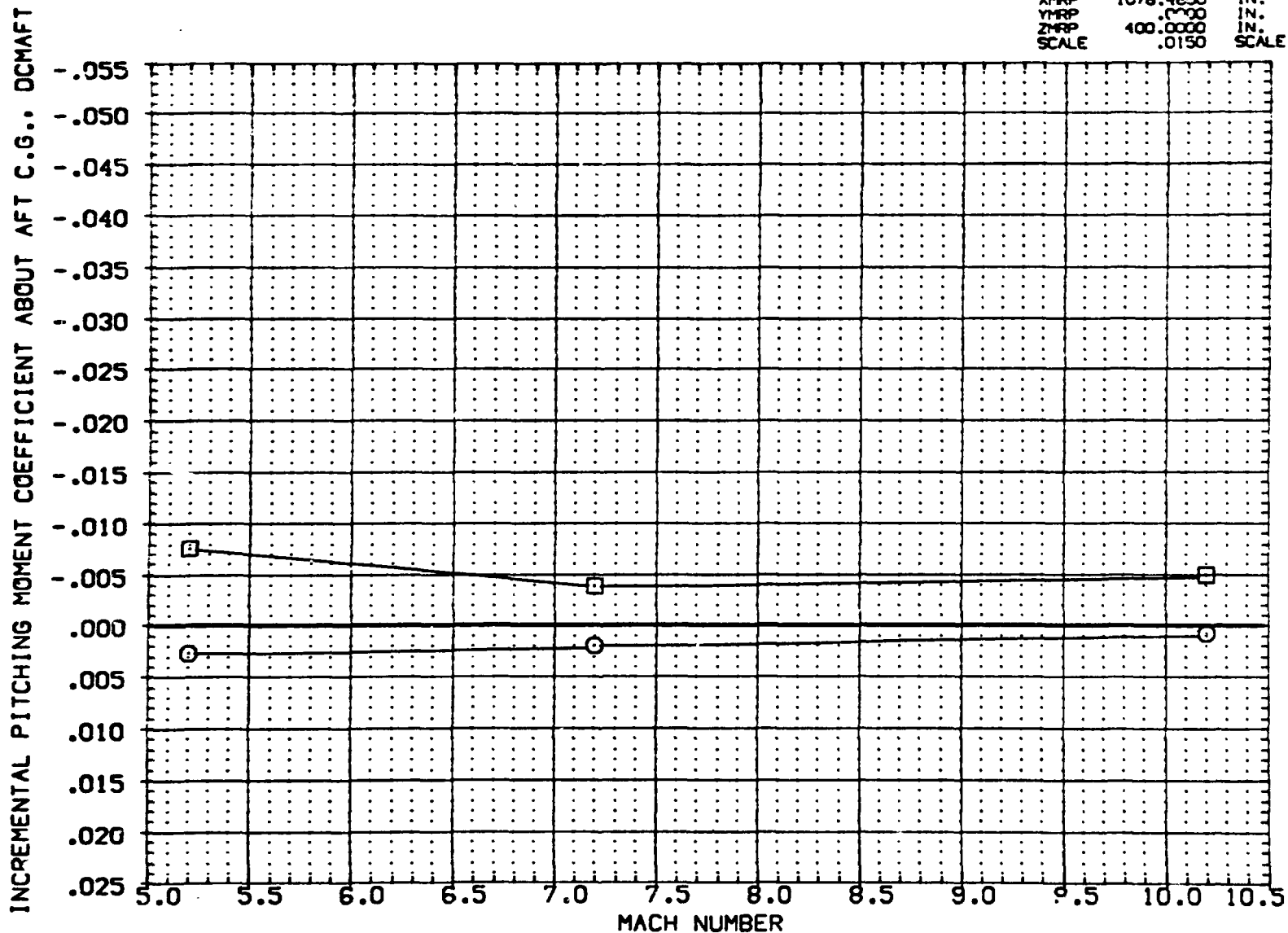


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A) ALPHA = 10.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(UB6001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(UB6008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER
.000	-14.250	55.000	.000
.000	13.750	55.000	.000

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6000	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.015C	SCALE

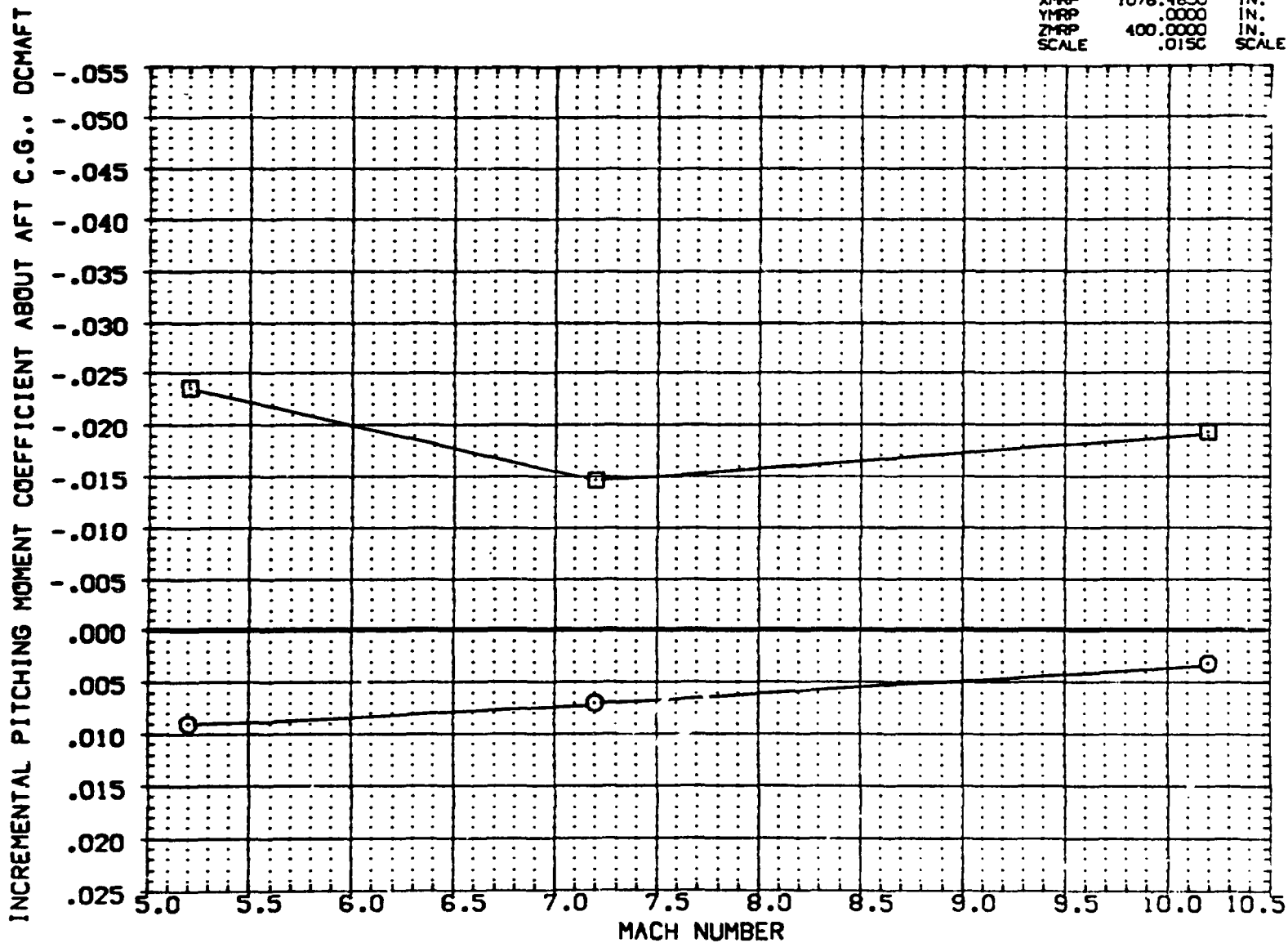


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(B)AL/HA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(L86001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(L86008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
.000	13.750	55.000	.000	LREF 474.8000 IN.
				BREF 936.6800 IN.
				XMRP 1076.4800 IN.
				YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0150 SCALE

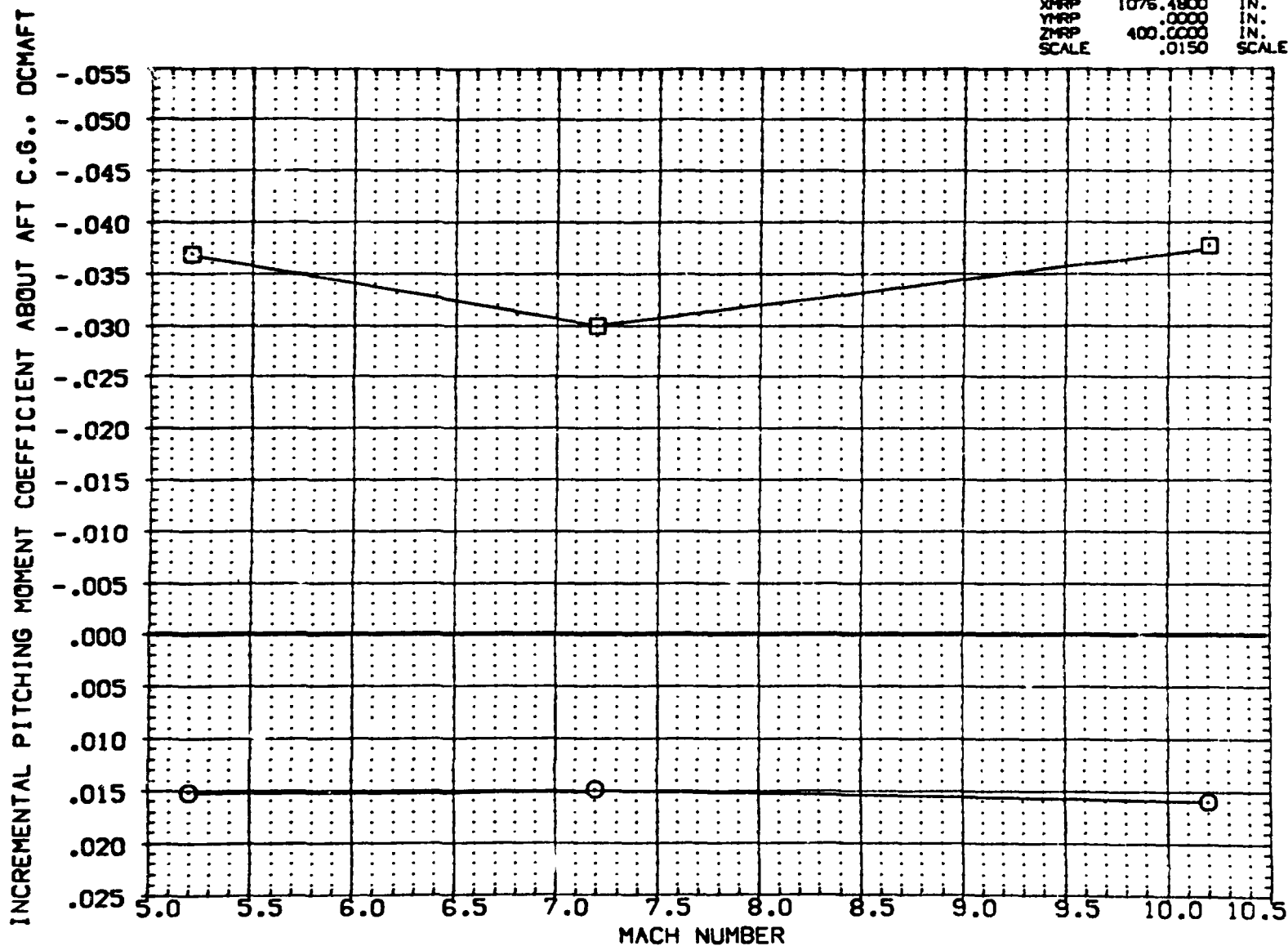


FIG. 5 BODY FLAP EFFECTS
(C) ALPHA = 30.00

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(L86001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107
(L86008)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107

ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION	
.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
.000	13.750	55.000	.000	LREF	474.8000 IN.
				BREF	936.6600 IN.
				XMRP	1076.4800 IN.
				YMRP	.0000 IN.
				ZMRP	400.0000 IN.
				SCALE	.0150 SCALE

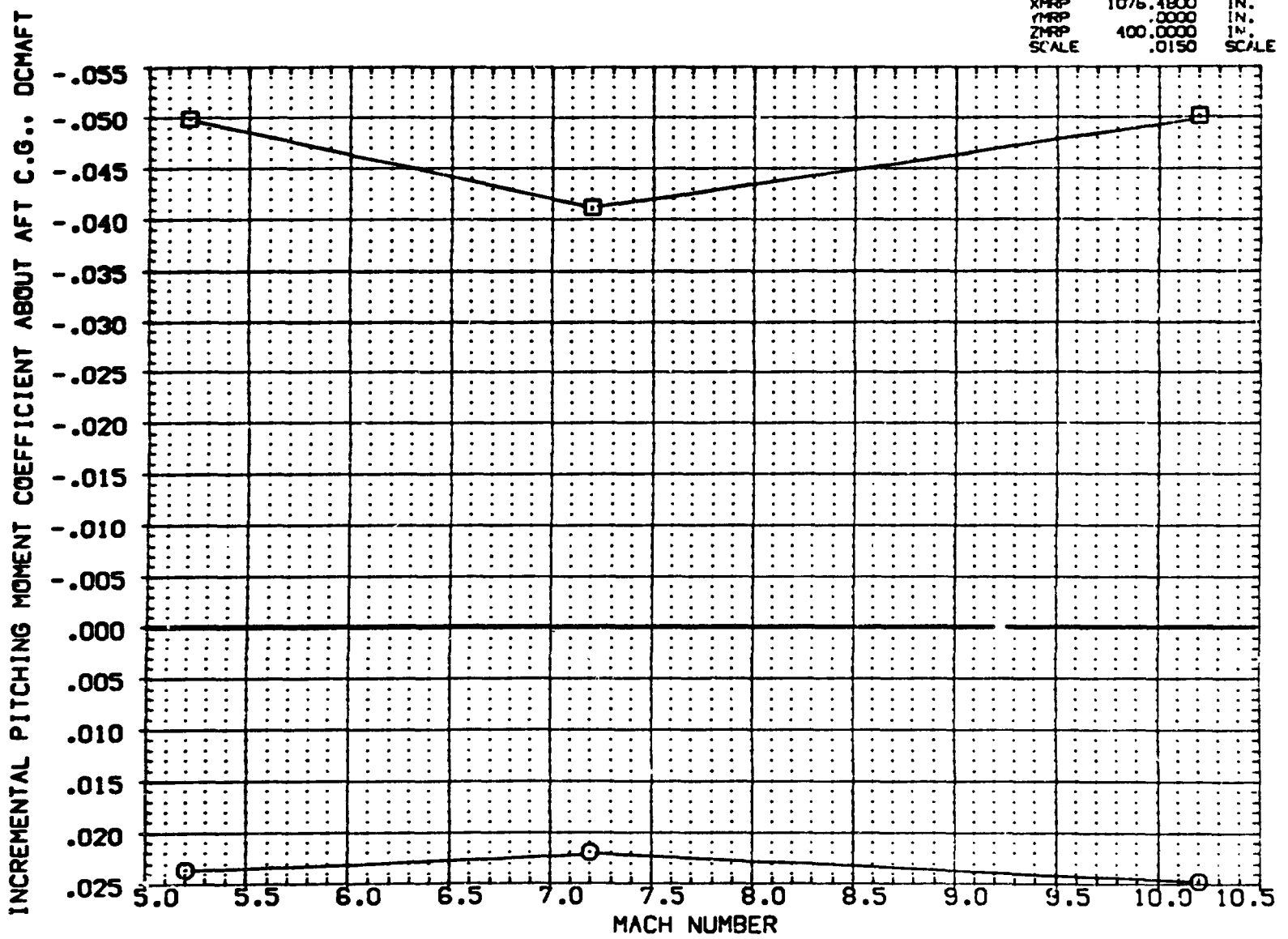


FIG. 5 BODY FLAP EFFECTS
 (D) ALPHA = 40.00
 147B CONFIGURATION (0.015-SCALE).
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AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	10.000		5.200	BETA	.000	UB6001	DBF	086007	.000	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILERON	.000	UB6001	-14.250			LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

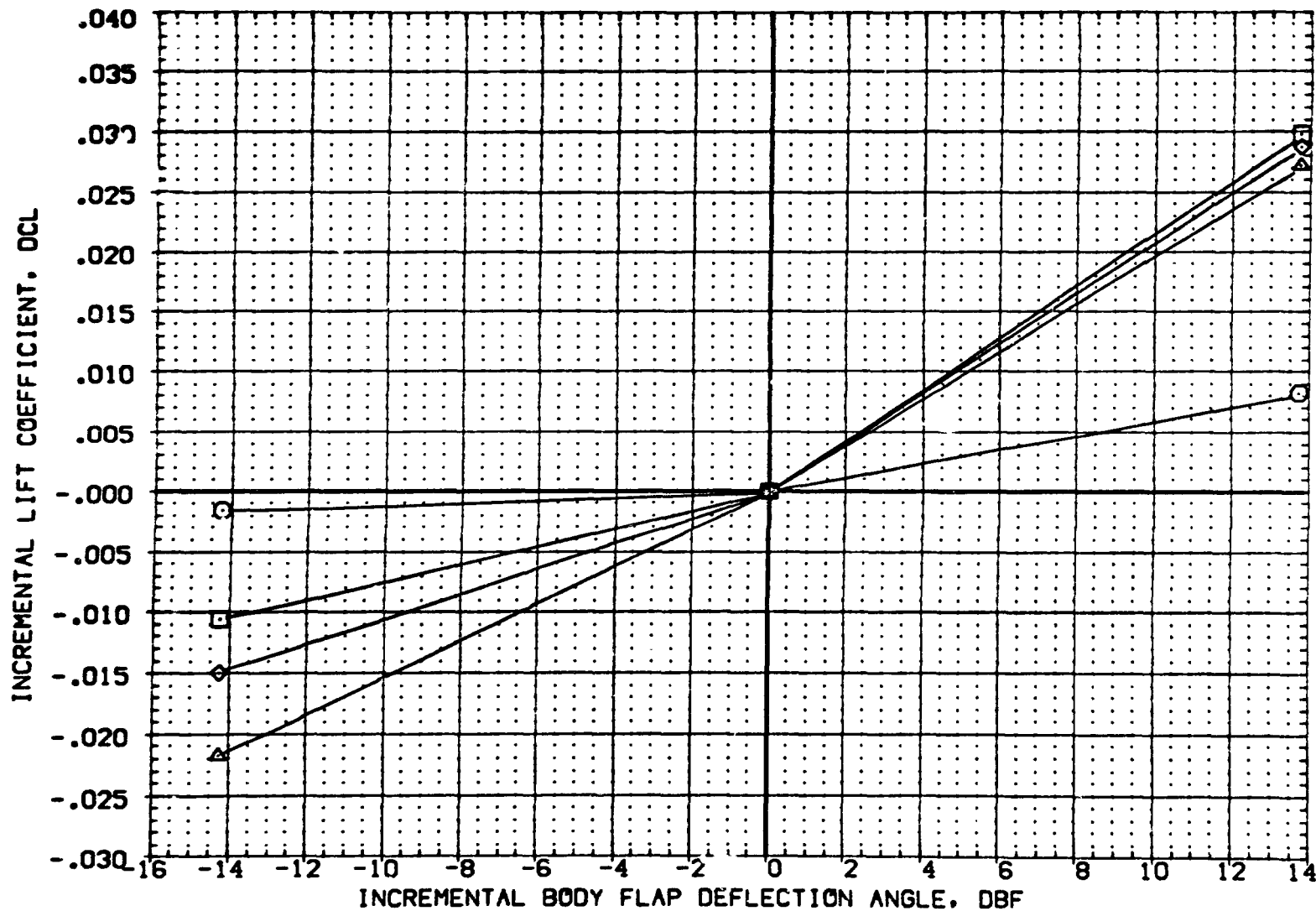


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	10.000		7.200	BETA	.000	UB6001	DBF	086007	.000	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250			LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	1000.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

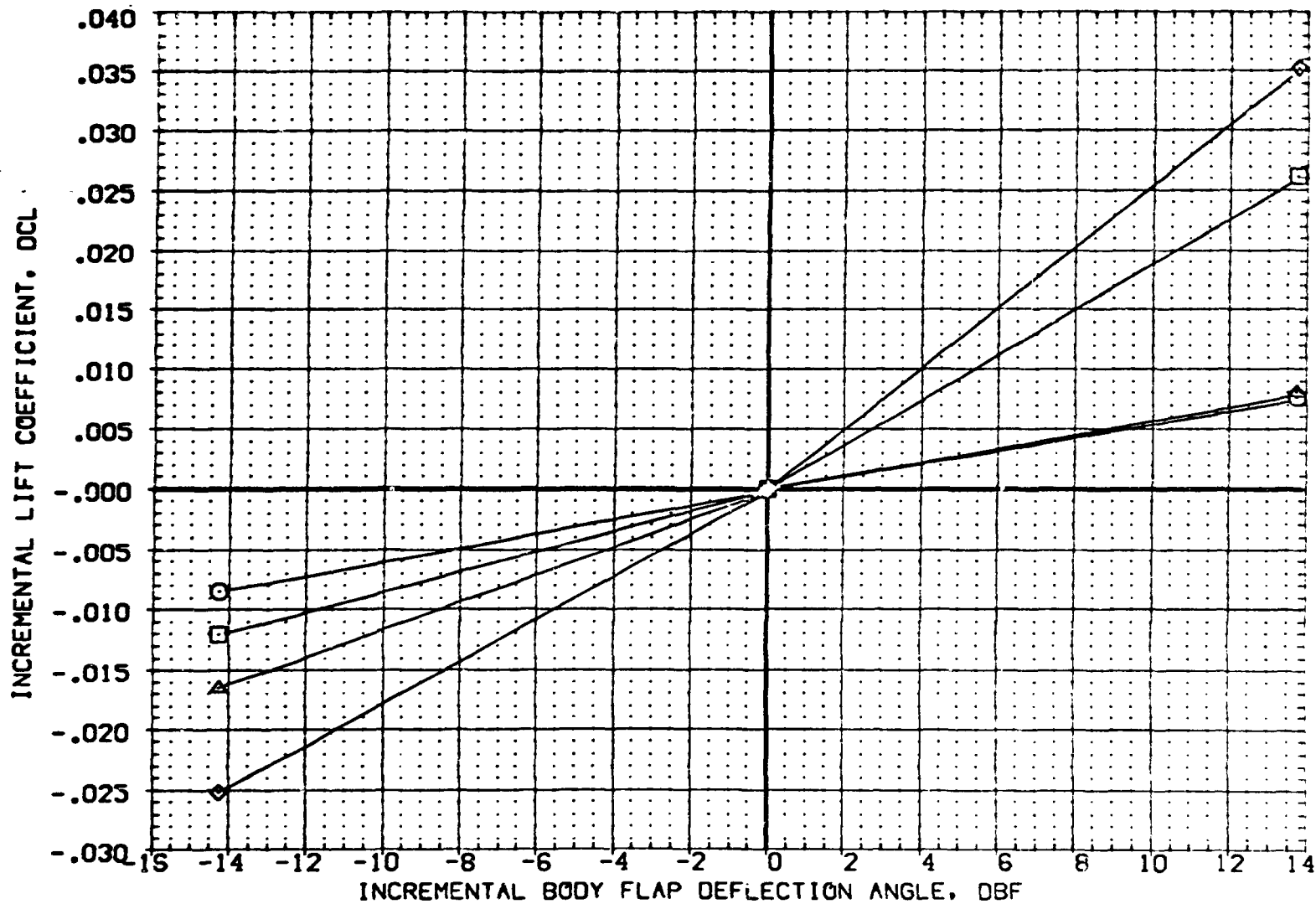


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DBF	DATA SOURCE	DBF	REFERENCE INFORMATION
○	10.000		10.200		.000 DATASET	08F	DATASET	08F	SREF 2690.0000 SO.FT.
□	20.000	ELEVON	.000	AILERON	.000 UB6001	-14.250	08G007	.000	LREF 474.8000 IN.
◇	30.000	SPOBRK	55.000	RUDER	.000 UB6008	13.750			BREF 936.6800 IN.
△	40.000								XMRP 1076.4800 IN.
									YMRP .0000 IN.
									ZMRP 400.0000 IN.
									SCALE .0150 SCALE

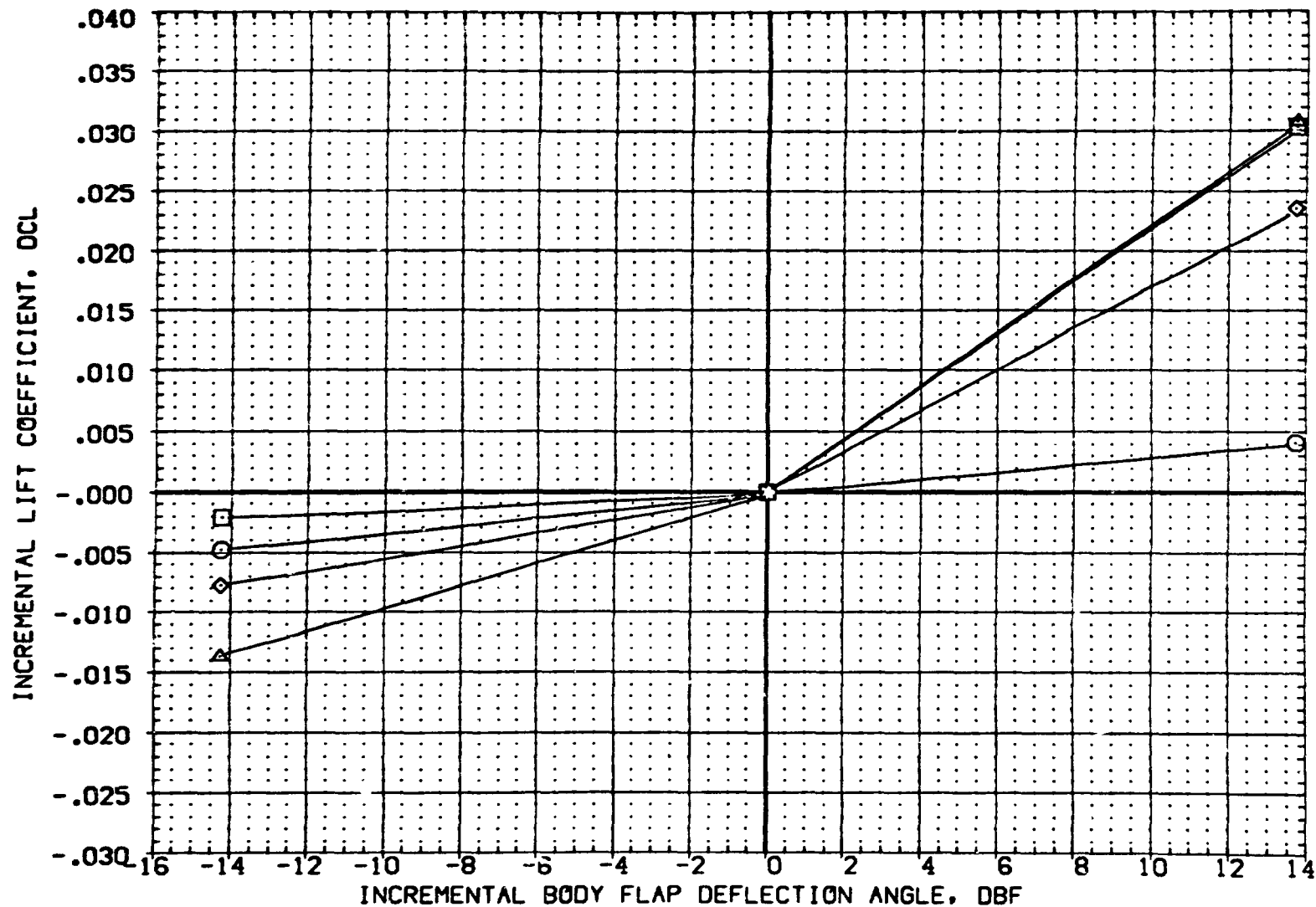


FIG. 5 BODY FLAP EFFECTS

14B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	AILTRON	RUDER	DBF	DBF	DBF	SREF	SO.FT.	
○	10.000	5.200	.000	.000	.000	UB6001	-14.250	.000	2690.0000	50.FT.	
□	20.000	.000	.000	.000	.000	UB6007	086007	.000	474.8000	IN.	
◇	30.000	55.000	.000	.000	.000	UB6008	13.750	.000	936.6800	IN.	
△	40.000								1076.4800	IN.	
									.0000	IN.	
									400.0000	IN.	
									.0150	SCALE	

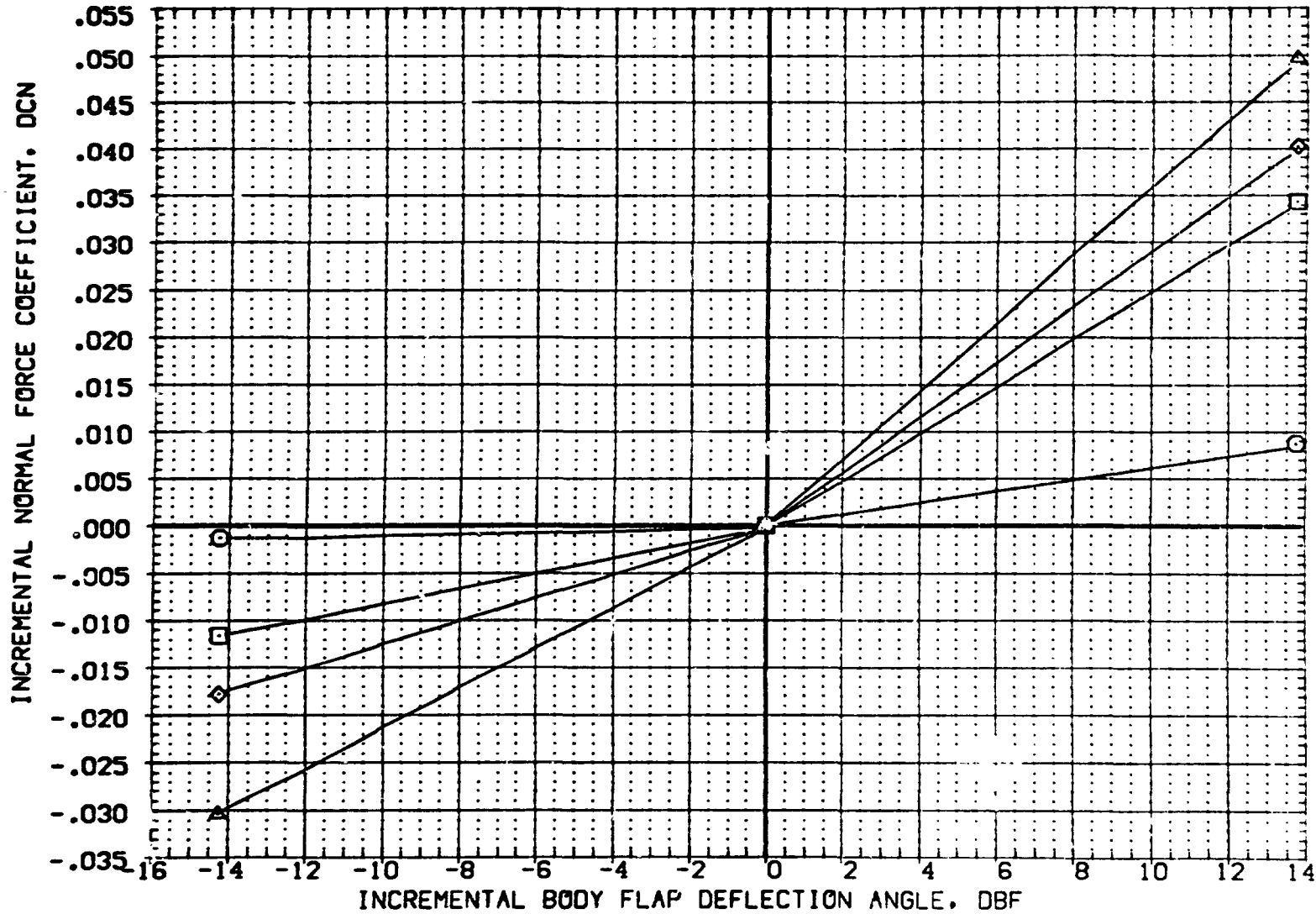


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000	DATASET	DBF	DATASET	DBF	SCALE	REFERENCE INFORMATION	SO.FT.
○	10.000		7.200		.000	UB6001	-14.250	086007	.000	SREF	2690.0000	90.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	086007	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RL 70ER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

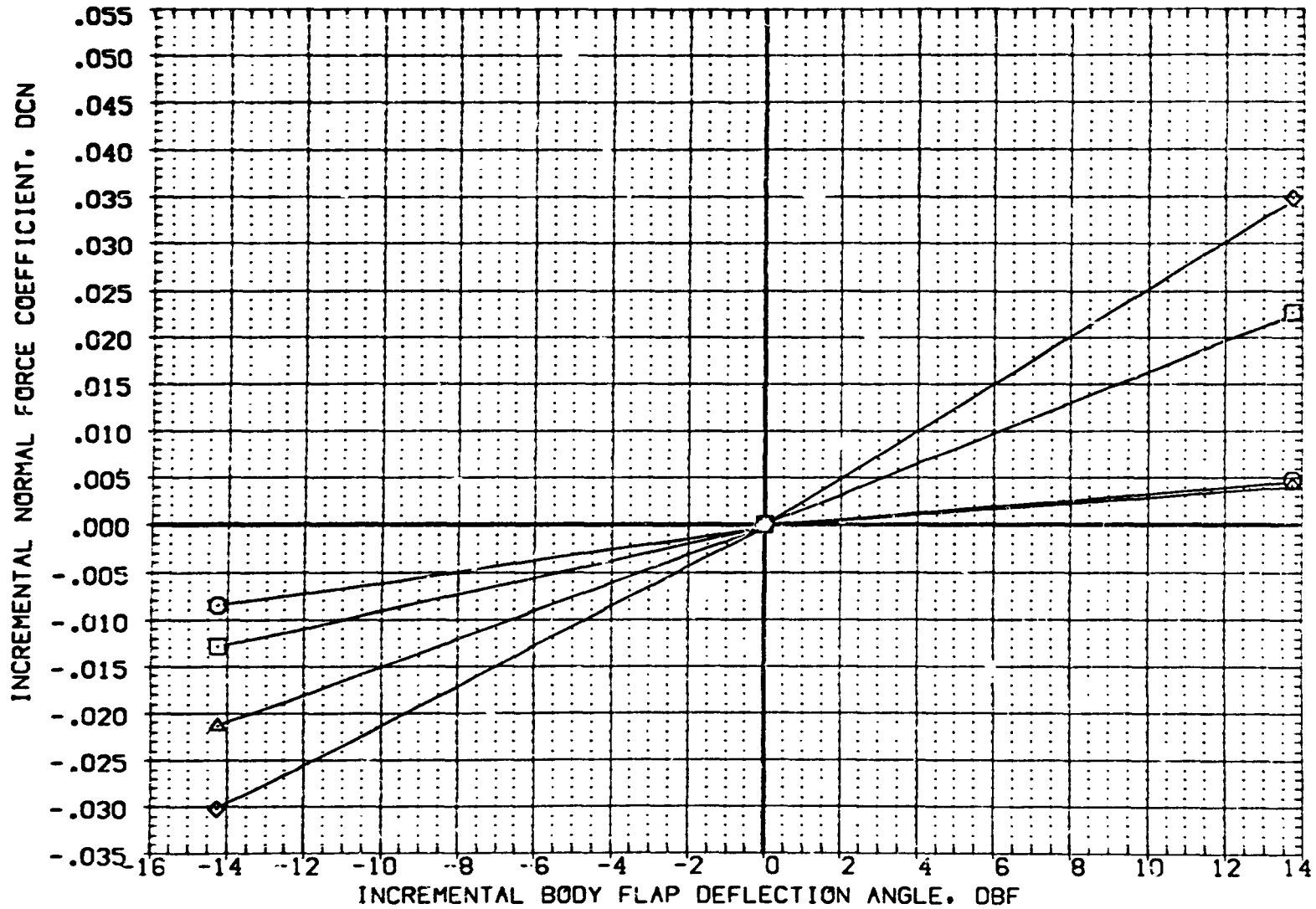


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION		
○	10.000	5.200	BETA	.000	UB6001	DBF	086007	SREF	2690.0000	50.FT.
□	20.000	.000	AILRON	.000	UB6001	-14.250	086007	LREF	474.8000	IN.
◇	30.000	55.000	RUDCER	.000	UB6008	13.750	.000	BREF	935.6900	IN.
△	40.000							XMRP	1076.4800	IN.
								YMRP	.0000	IN.
								ZRP	400.0000	IN.
								SCALE	.0150	SCALE

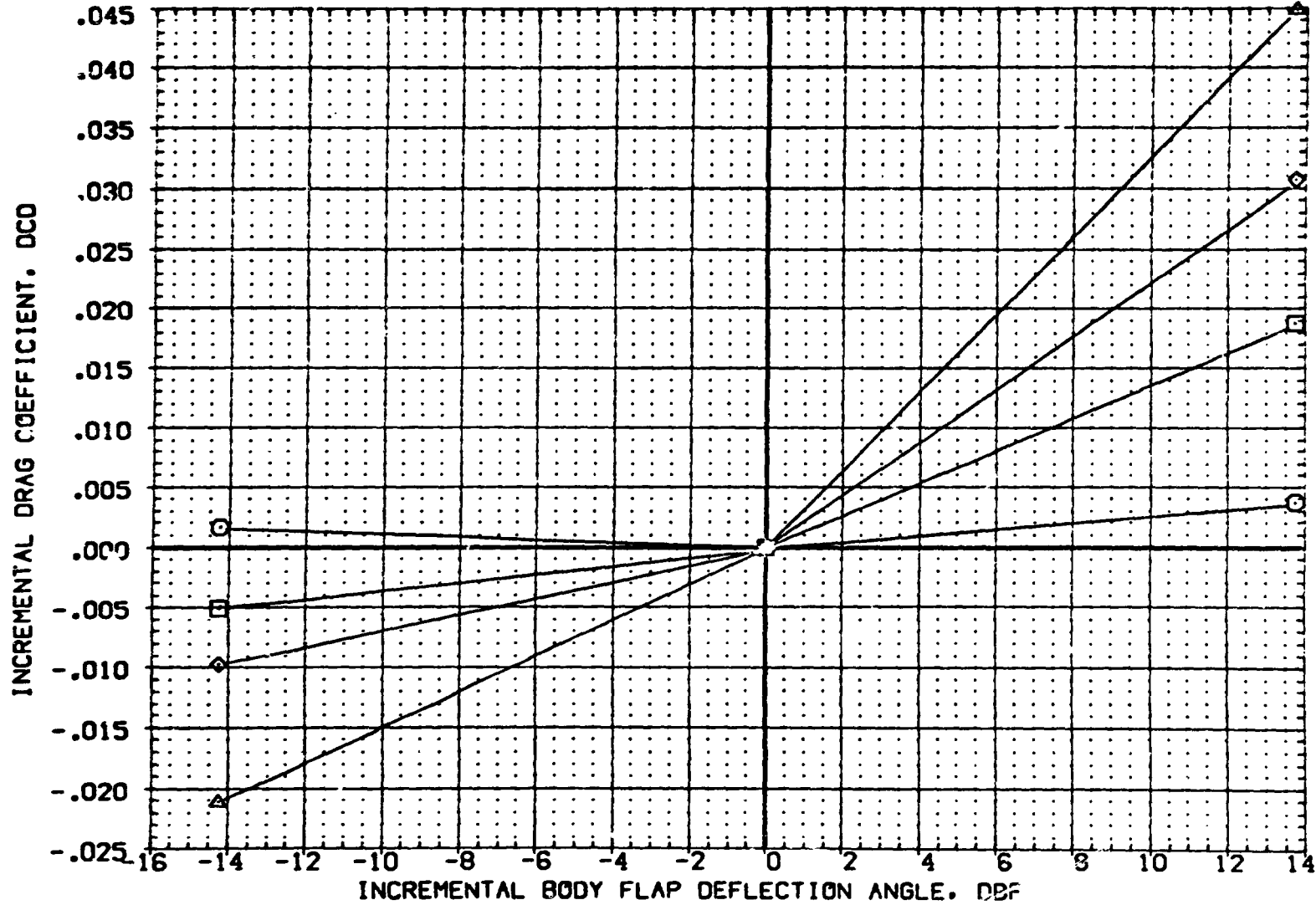


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (U86001)

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
	10.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SO.FT.
○	20.000	ELEVON	.000	AILRON	.000	U86001	-14.250	086007	.000	LREF	474.8000	IN.
□	30.000	SPDBRK	55.000	RUDDER	.000	U86008	13.750			BREF	936.6000	IN.
◇	40.000									XMRP	1076.4800	IN.
△										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

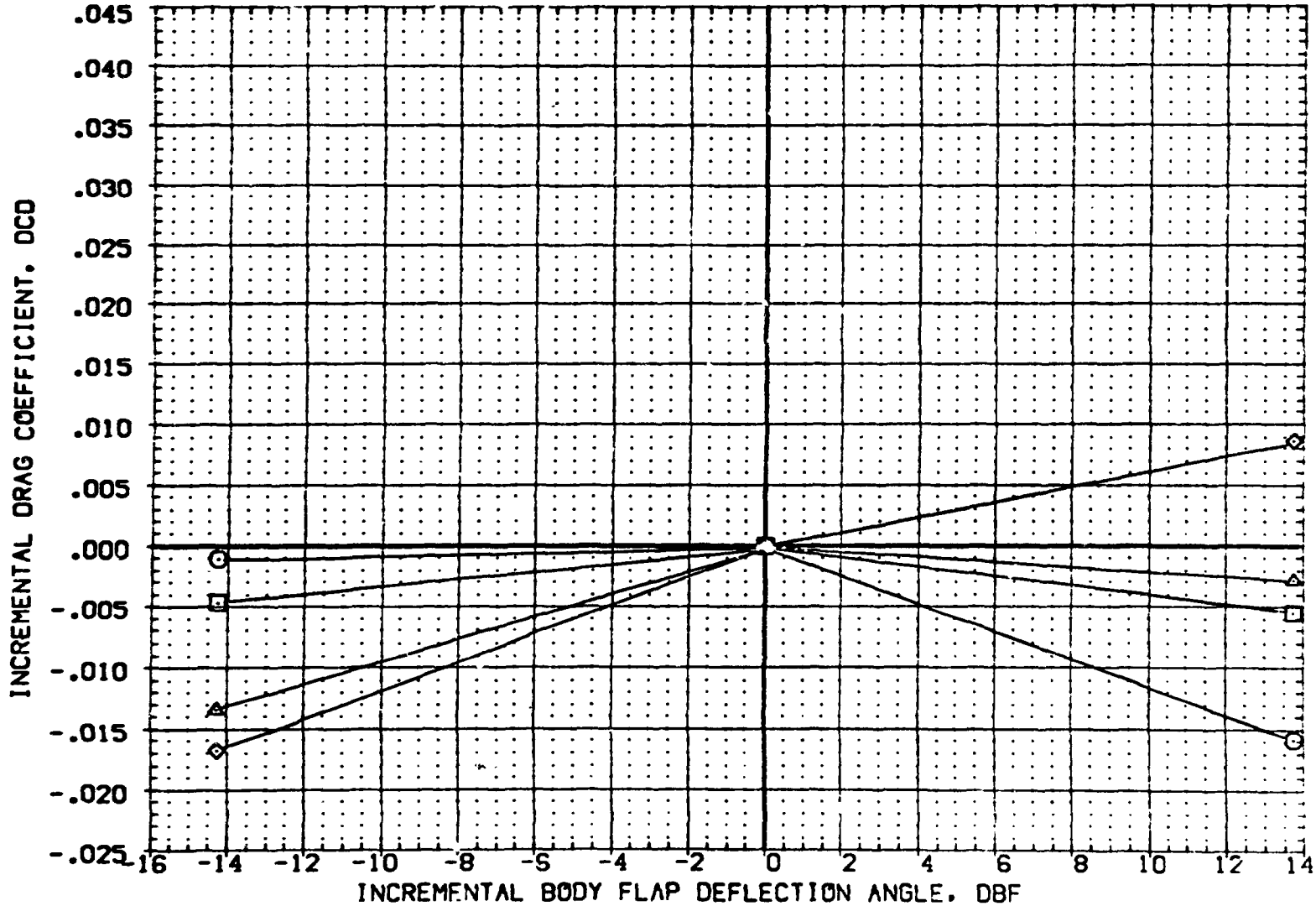


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
	10.000	MACH	10.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	50.FT.	
○	20.000	ELEVON	.000	AIRLIN	.000	UB6001	-14.250	086007	.000	LREF	474.8000	IN.
□	30.000	SPOBRK	55.000	RUDER	.000	UB6008	13.750			BREF	936.6800	IN.
◇	40.000									XTRP	1076.4800	IN.
△										YTRP	.0000	IN.
										ZTRP	400.0000	IN.
										SCALE	.0150	SCALE

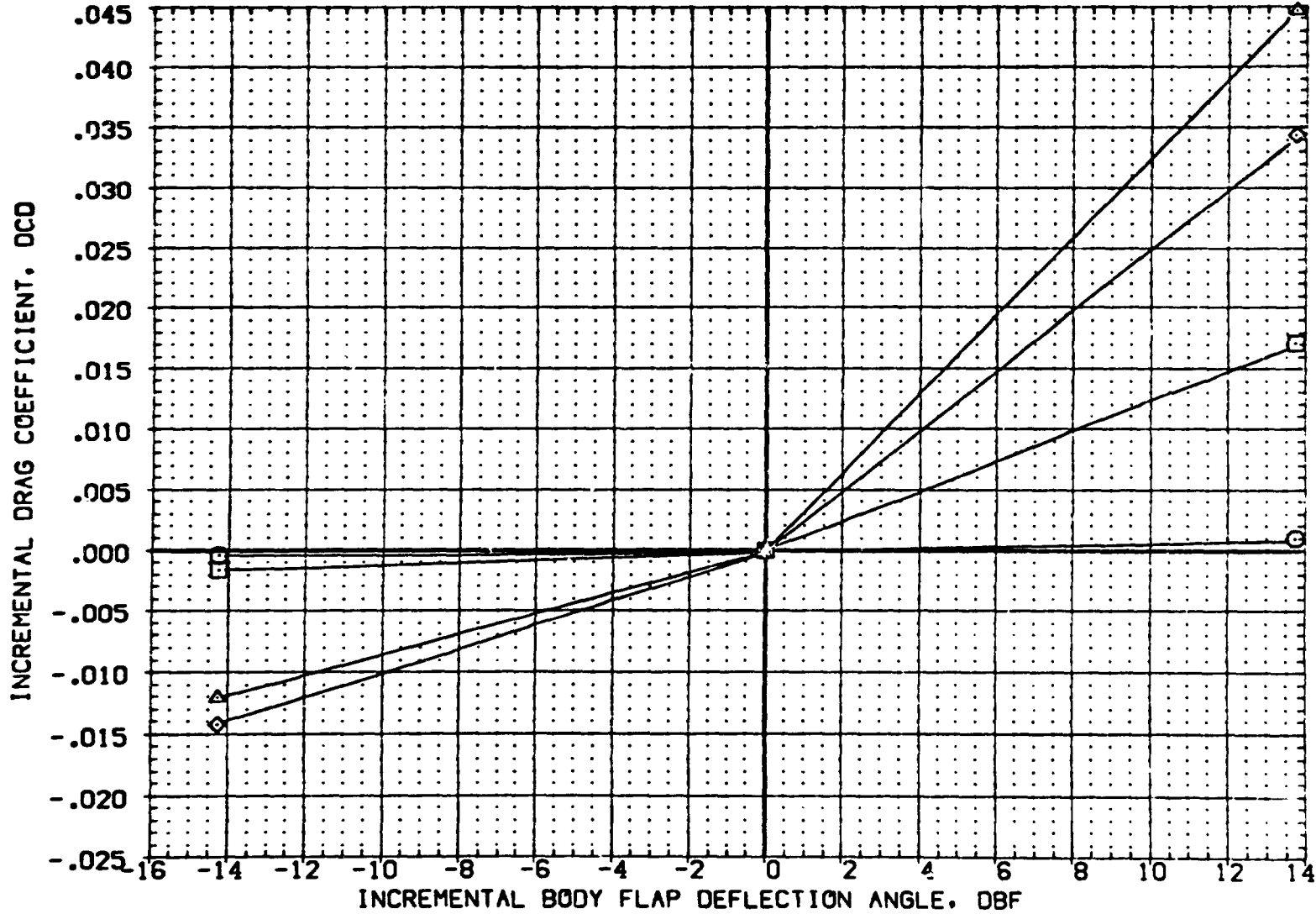


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION				
○	10.000		5.200	BETA	.000	UB6001	DBF	DBF	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250	DBF	LREF	474.6000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750	DBF	BREF	936.6000	IN.
△	40.000								XMRP	1076.4000	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

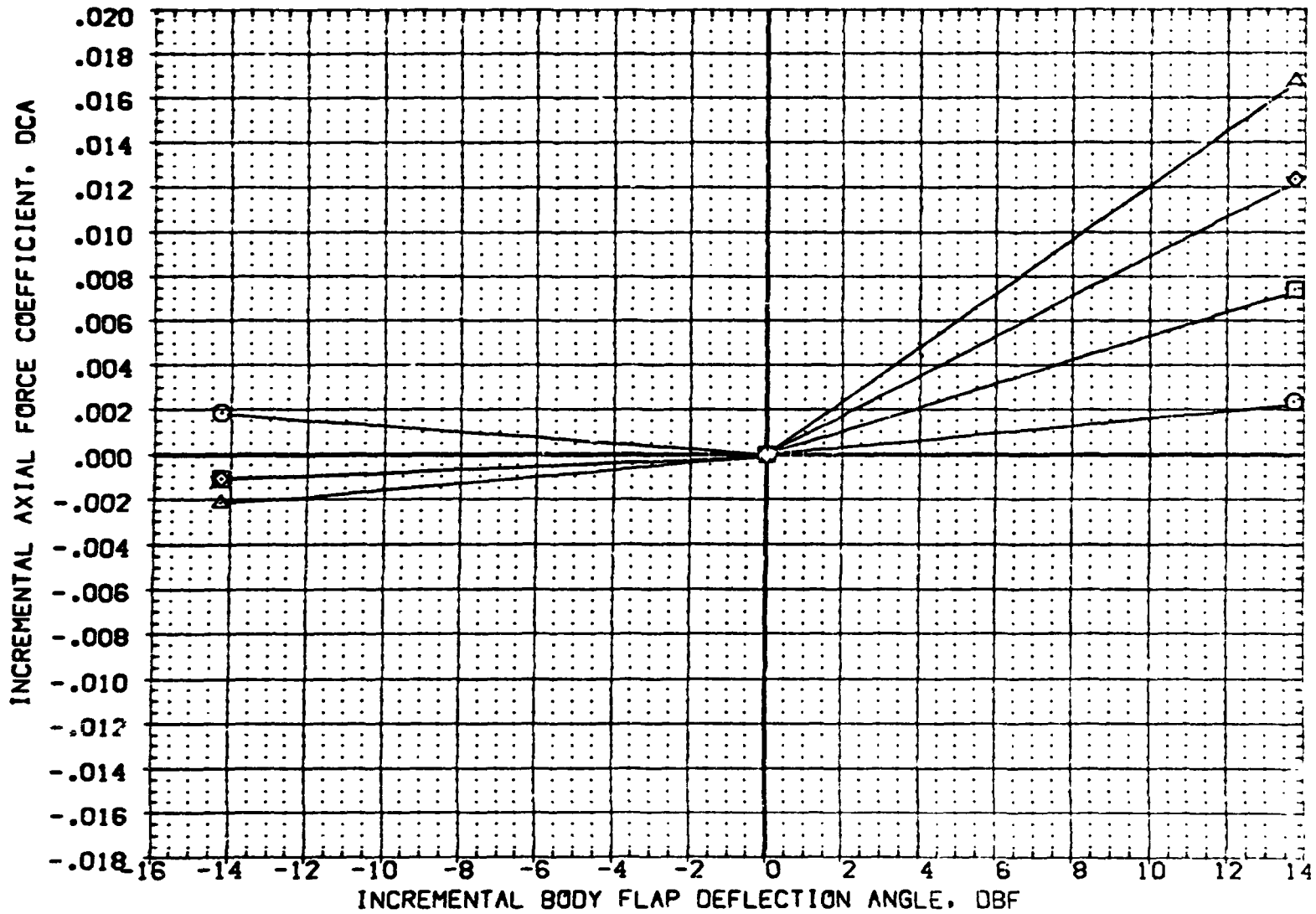


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	.000 DATASET	DBF	DATASET	DBF	REFERENCE INFORMATION	SO.FT.	
○	10.000				.000	UB6001	-14.250	086007	SREF	2690.0000	IN.
□	20.000				.000	UB6001	-14.250	086007	LREF	474.8000	IN.
◇	30.000				.000	UB6008	13.750		BREF	936.6800	IN.
△	40.000				.000	UB6008	13.750		XMRP	1076.4800	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

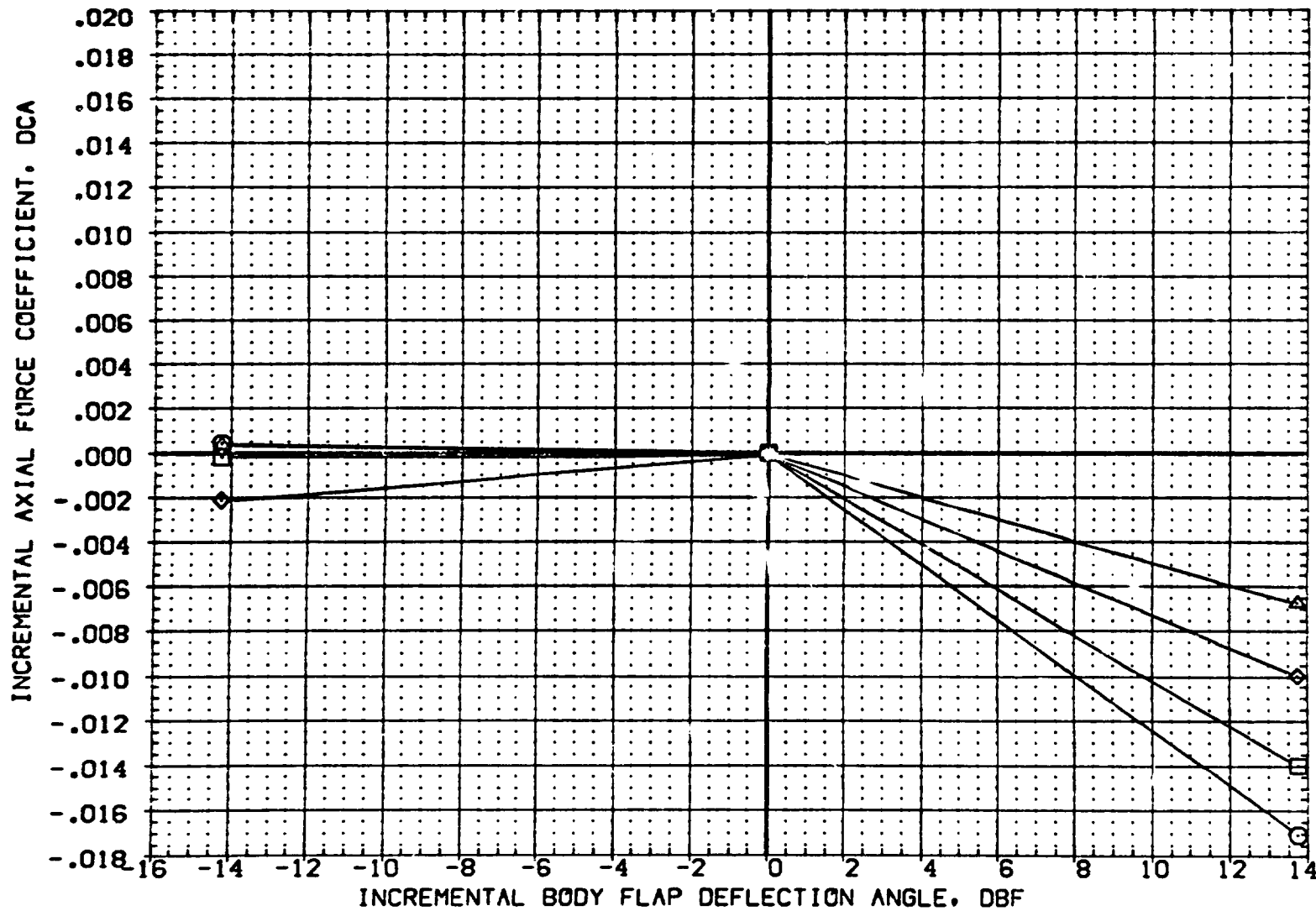


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	10.000	MACH	10.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
○	20.000	ELEVON	.000	AILERON	.000	UB6001	-14.250	08600	.000	LREF	474.6000	IN.
□	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6000	IN.
◇	40.000									XMRP	1076.4000	IN.
△										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

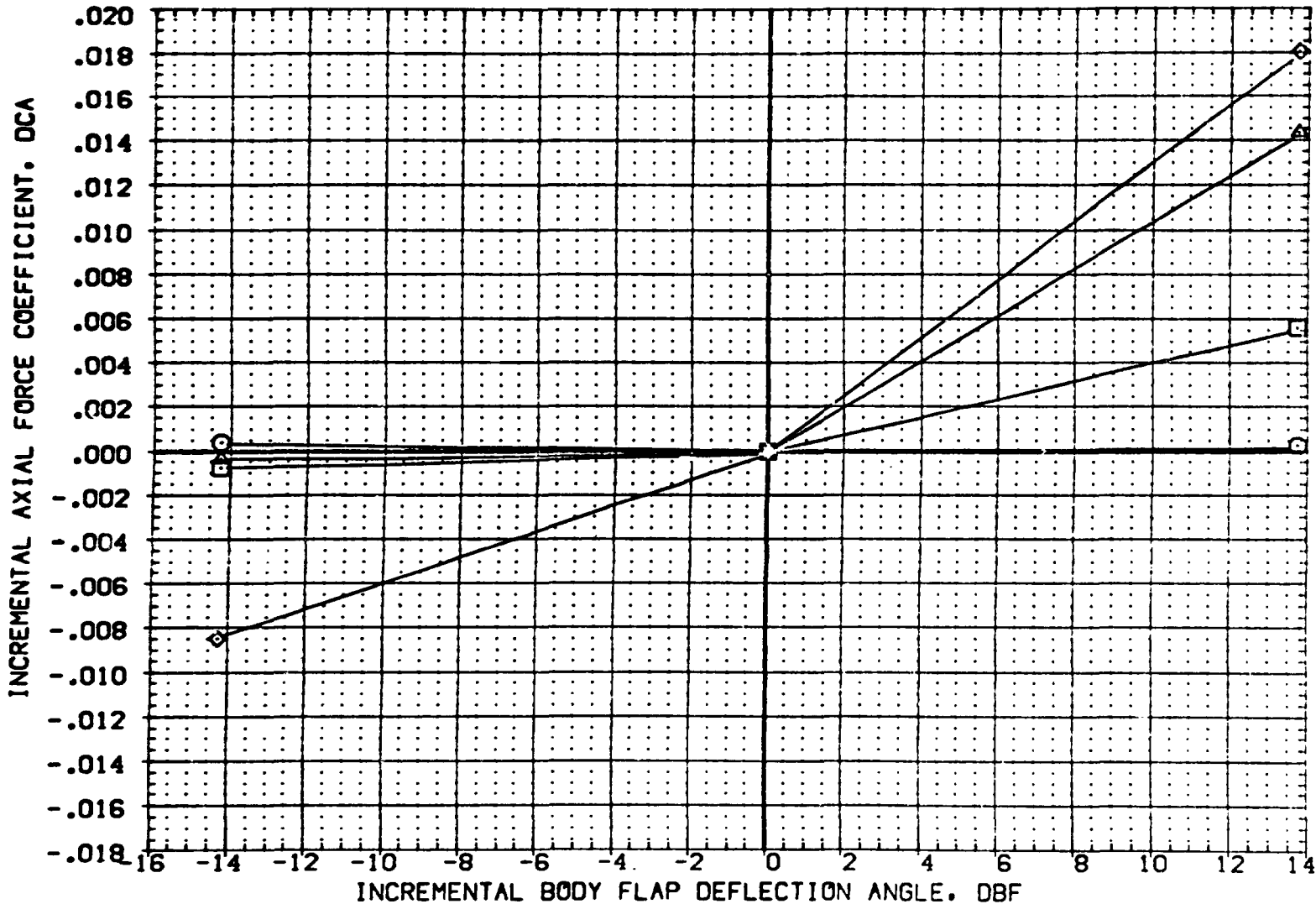


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION			
○	10.000		5.200	BETA	.000	UB6001	DBF	086007	SREF	2690.0000	50. FT.
□	20.000	ELEVON	.000	AILERON	.000	UB6001	-14.250		LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6008	13.750	.000	BREF	936.6800	IN.
△	40.000								XMRP	1076.4800	IN.
									YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0150	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G., DCMFWD

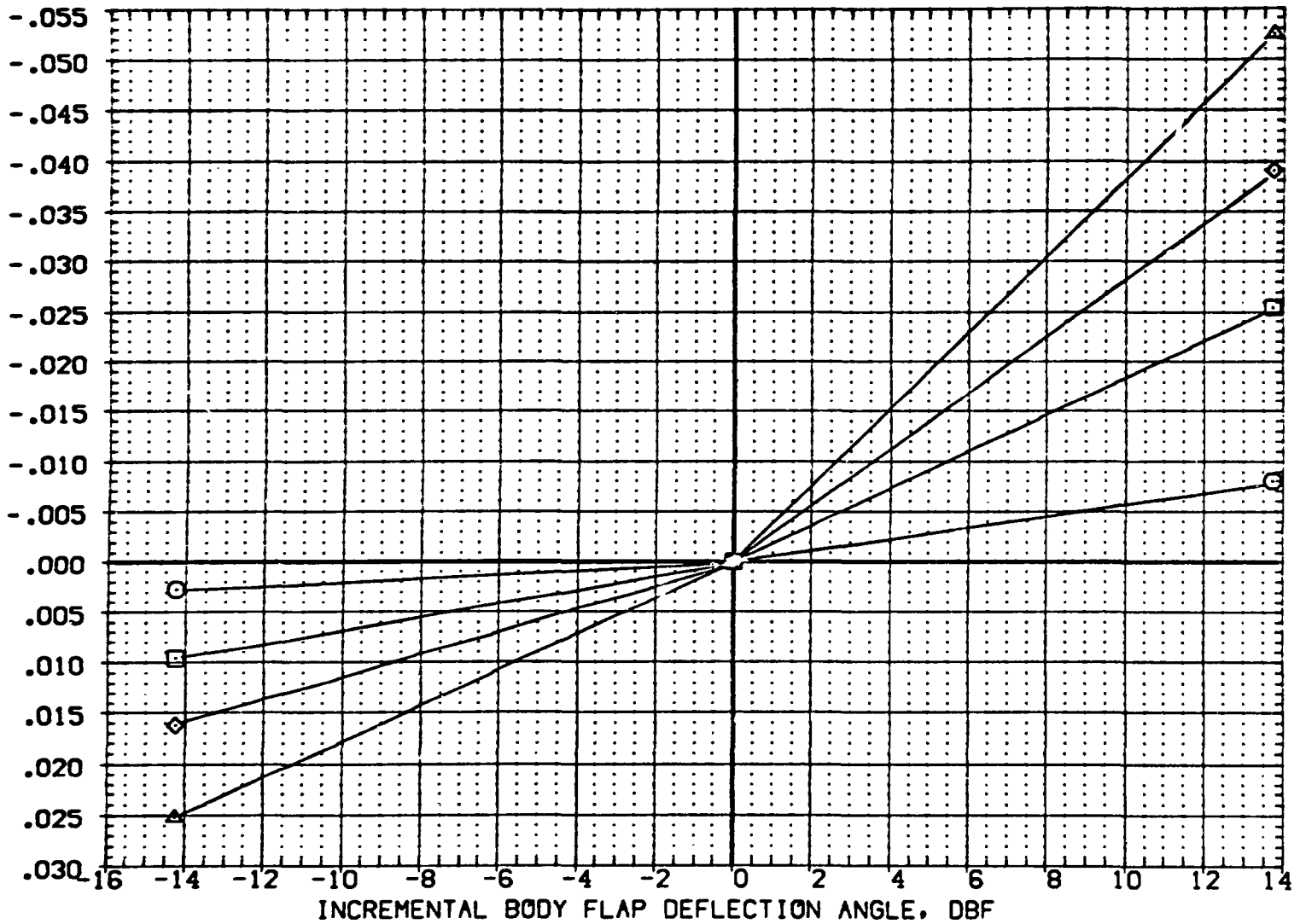


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES	BETA	DATA SOURCE	DBF	DATA SET	DBF	SCALE	REFERENCE INFORMATION	SO. FT.
○	10.000		10.200		.000		UB6001	-14.250	.000	SREF 2690.0000	50. FT.
□	20.000	ELEVON	.000	AILERON	.000		UB6007		.000	LREF 474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000		UB6008	13.750		BREF 936.6800	IN.
△	40.000									XMRP 1076.4800	IN.
										YMRP .0000	IN.
										ZMRP 400.0000	IN.
										SCALE .0150	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G., DCMFWD

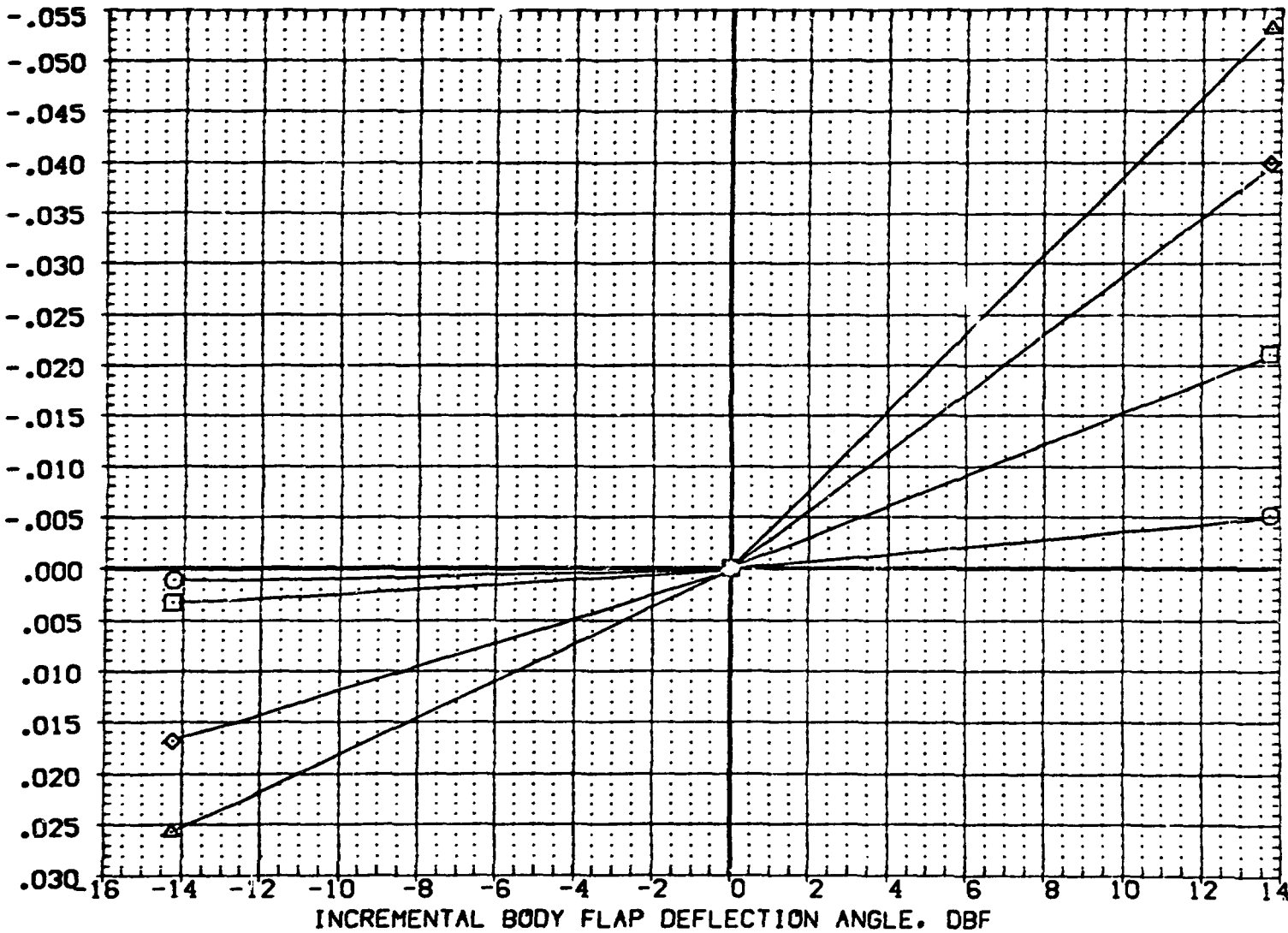


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION			
○	10.000		5.200	BETA	.000	UB6001	DBF	086007	.000	SREF	2690.0000	50. FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250			LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDER	.000	UB6008	13.750			BREF	936.6000	IN.
△	40.000									XMRP	1076.4000	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

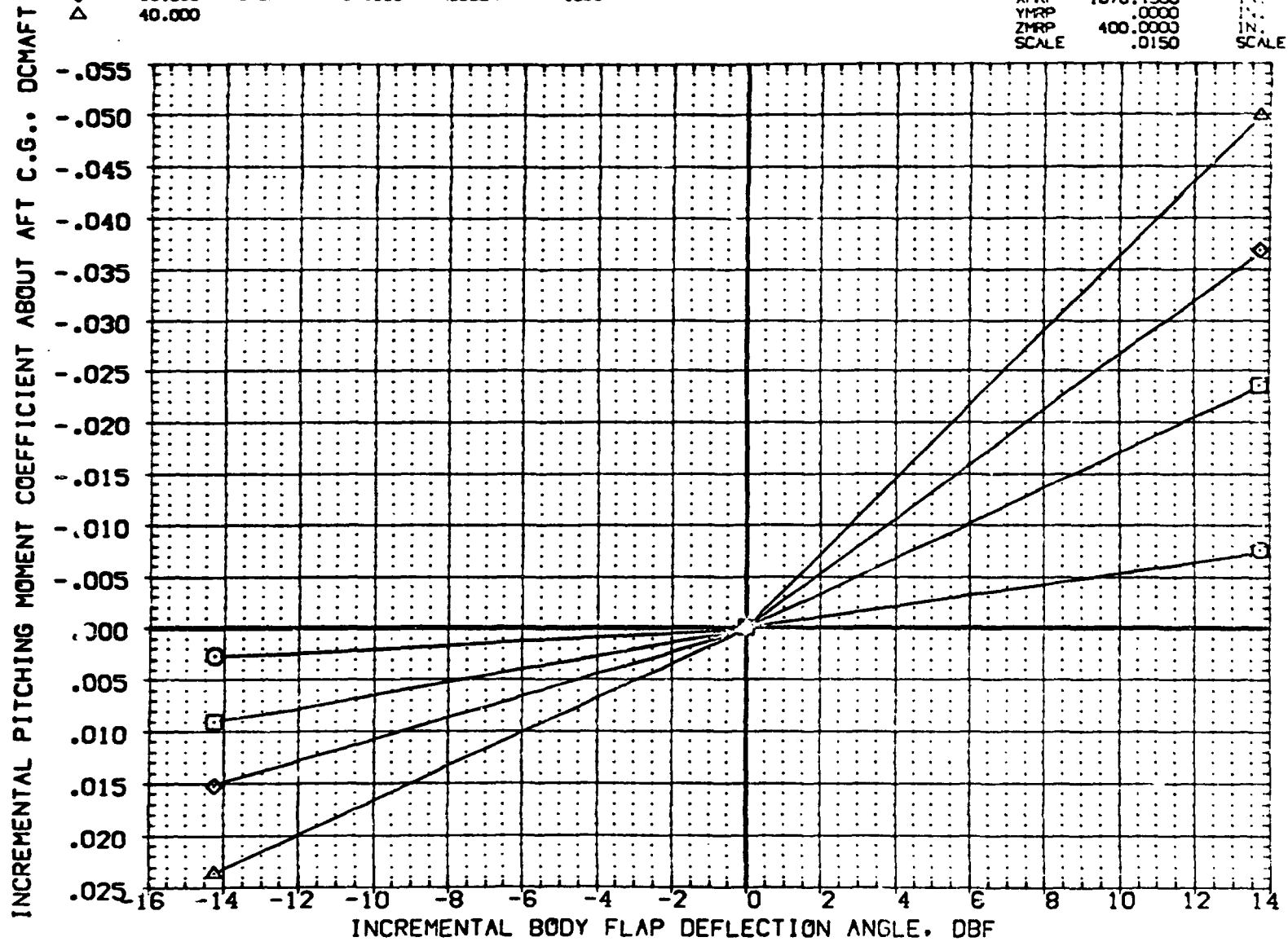


FIG. 5 BODY FLAP EFFECTS 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6001)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	10.000		7.200	BETA	.000	UB6001	DBF	086007	.000	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILERON	.000	UB6001	-14.250			LREF	474.8000	IN.
◇	30.000	SPOILER	55.000	RUDDER	.000	UB6008	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT AFT C.G., DCMAFT

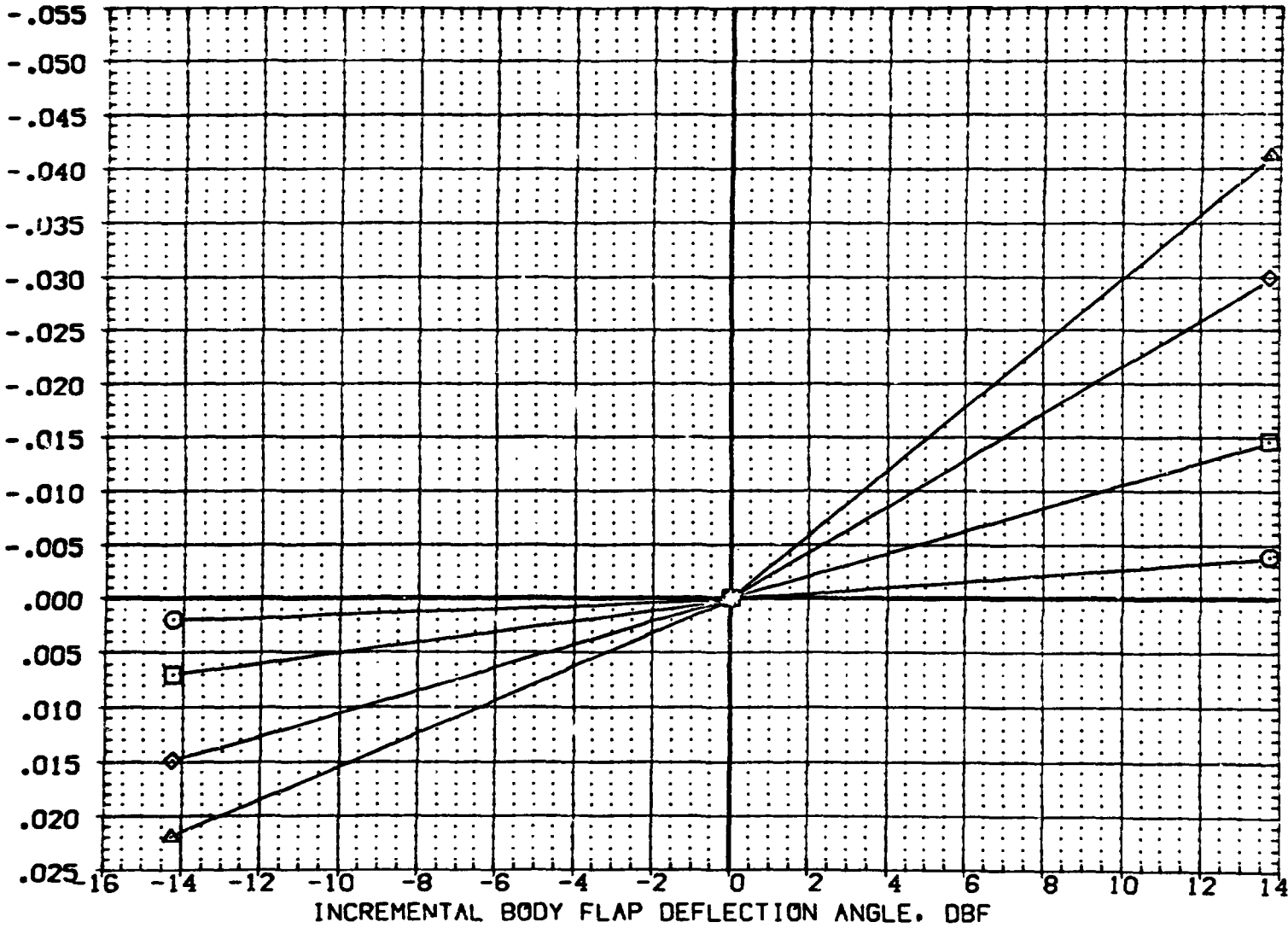


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	10.000		10.200	BETA	.000	UB6001	DBF	086007	.000	SREF	2690.0000	50. FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6001	-14.250			LREF	474.0000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6008	13.750			BREF	936.0000	IN.
△	40.000									XMRP	1076.4000	IN.
										YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0150	SCALE

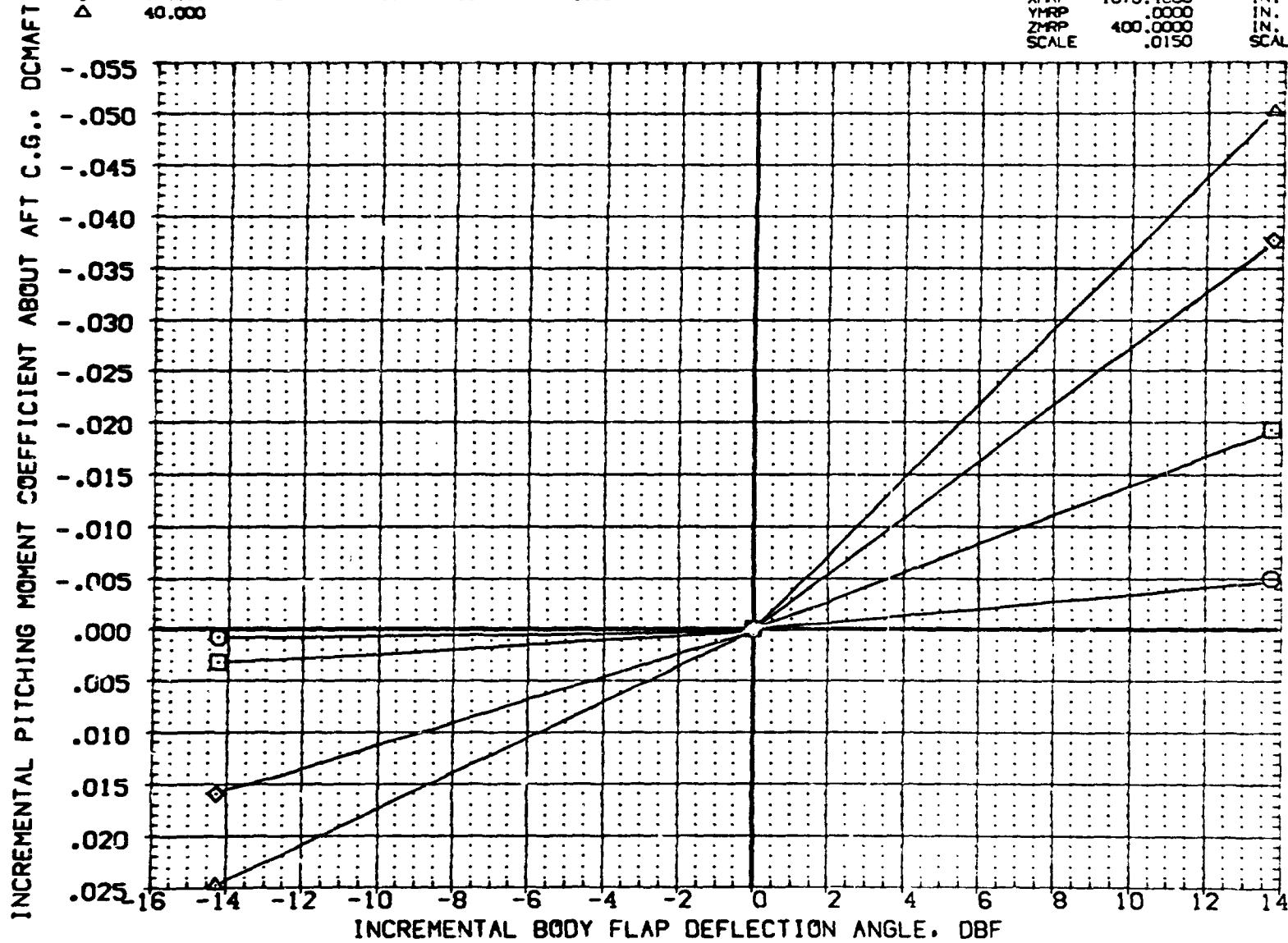


FIG. 5 BODY FLAP EFFECTS

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B96002)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 P5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(B96001)	□ AMES3.5-168 OA23 B22 C7 E23 F5 M4 P5 V7 V107	.000	-14.250	55.000	.000	

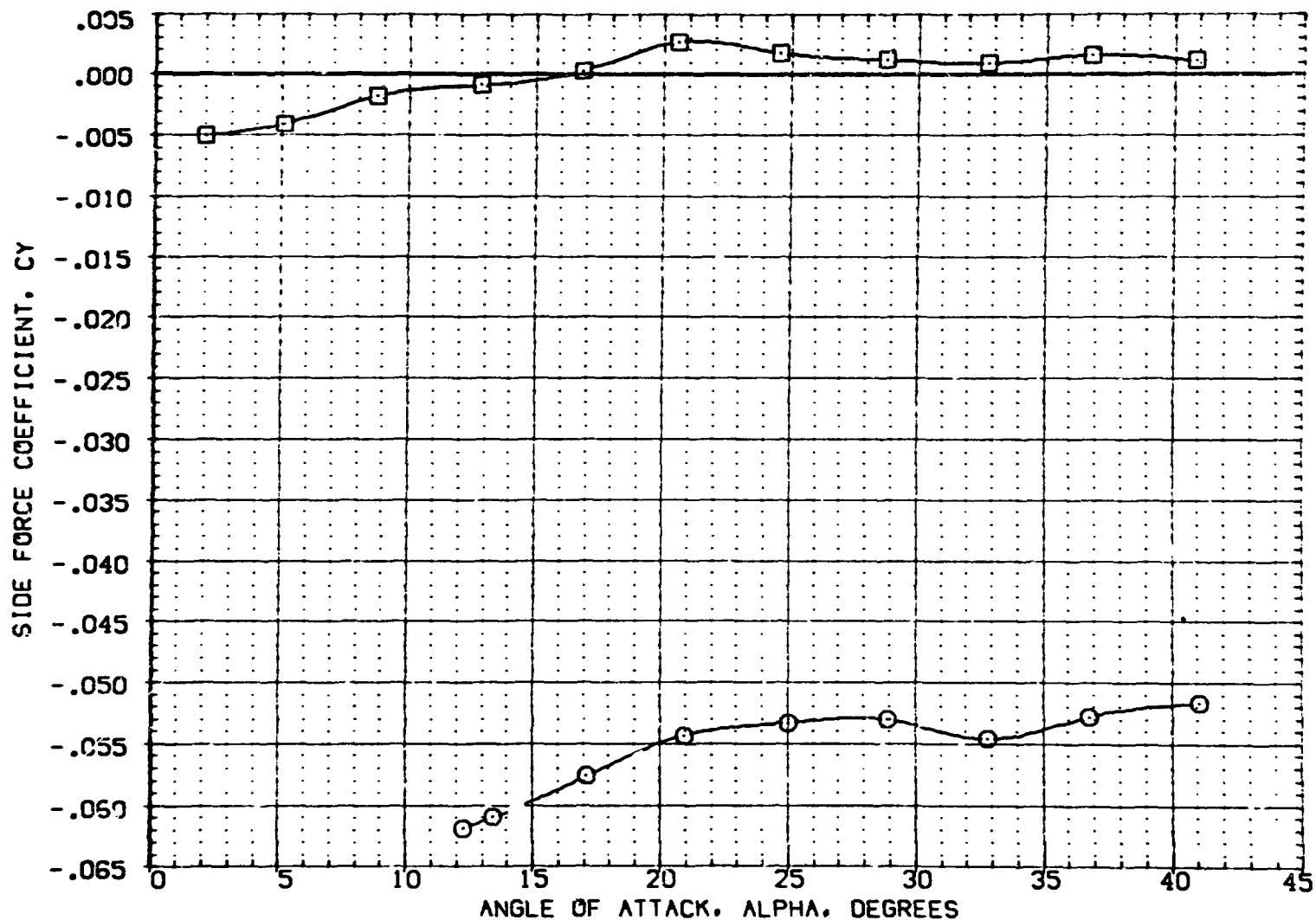


FIG. 6 SIDESLIP EFFECTS
(A)MACH = 5.26

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDBRK	RUDER	REFERENCE INFORMATION
(B)MACH	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B)MACH	AMES3.5-168 DA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.8200 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0300 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

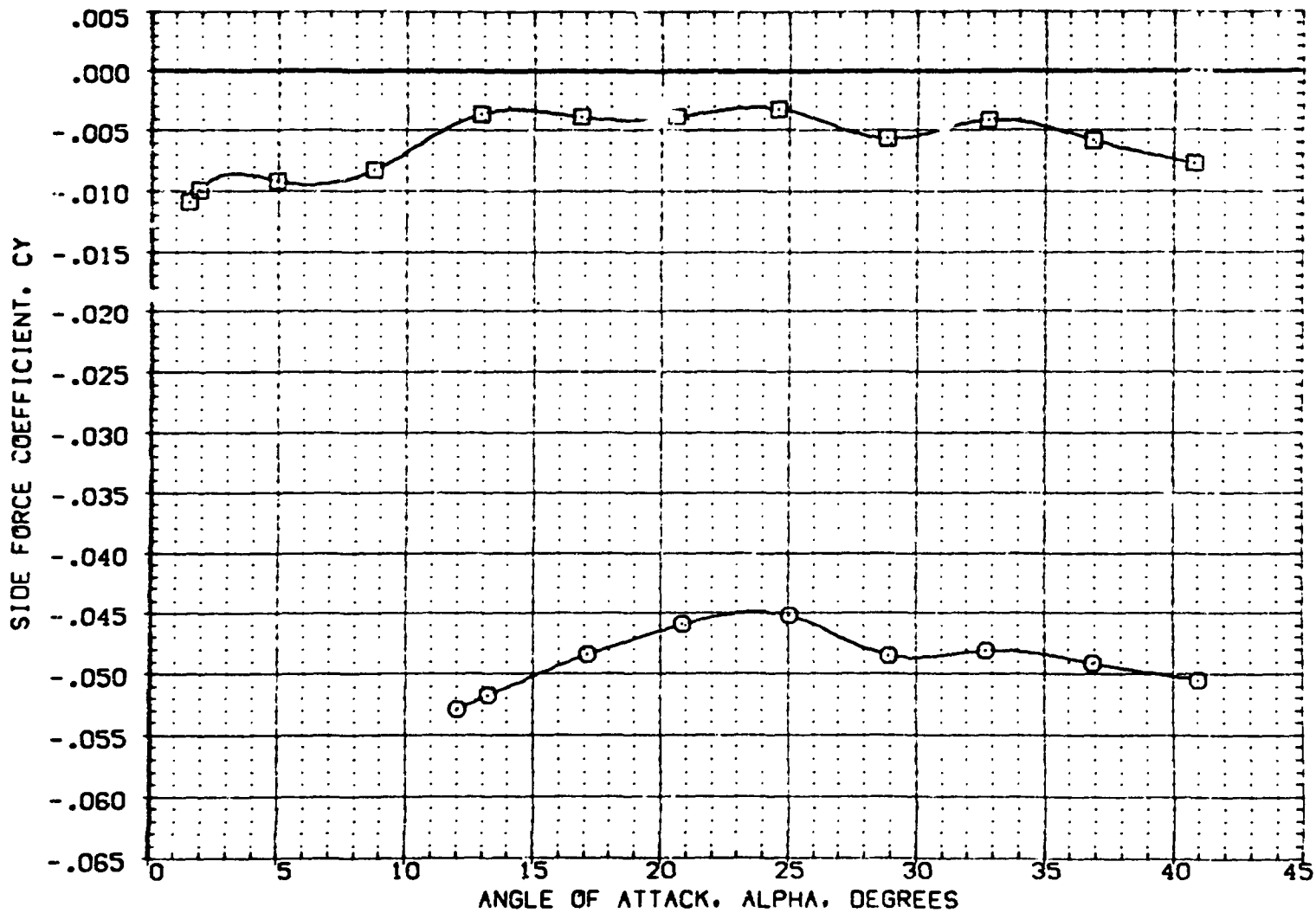


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
1442221	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
1366011	AMES3.5-168 CA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1075.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

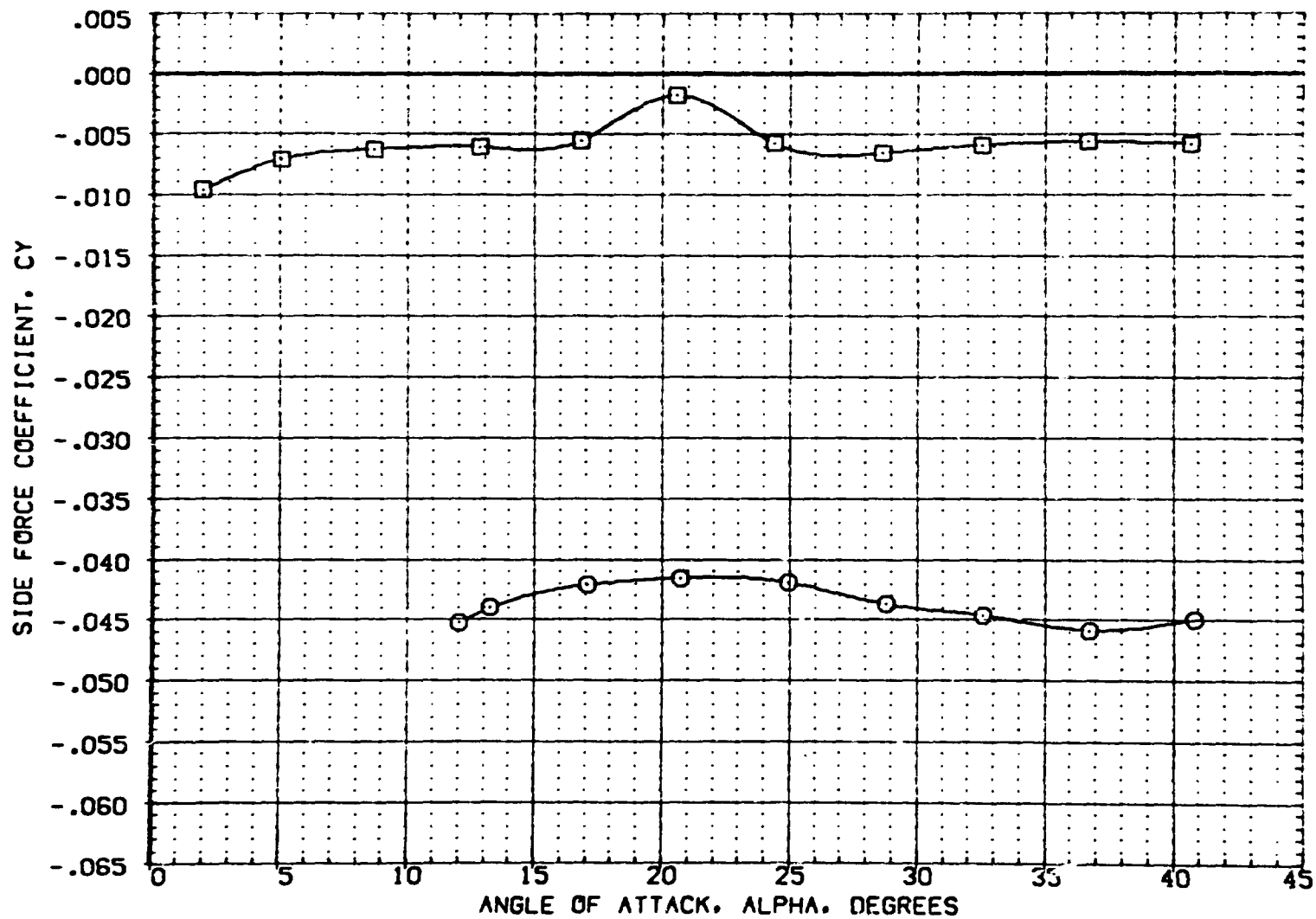


FIG. 6 SIDESLIP EFFECTS
(C)MACH = 10.29

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(191002)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(191001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

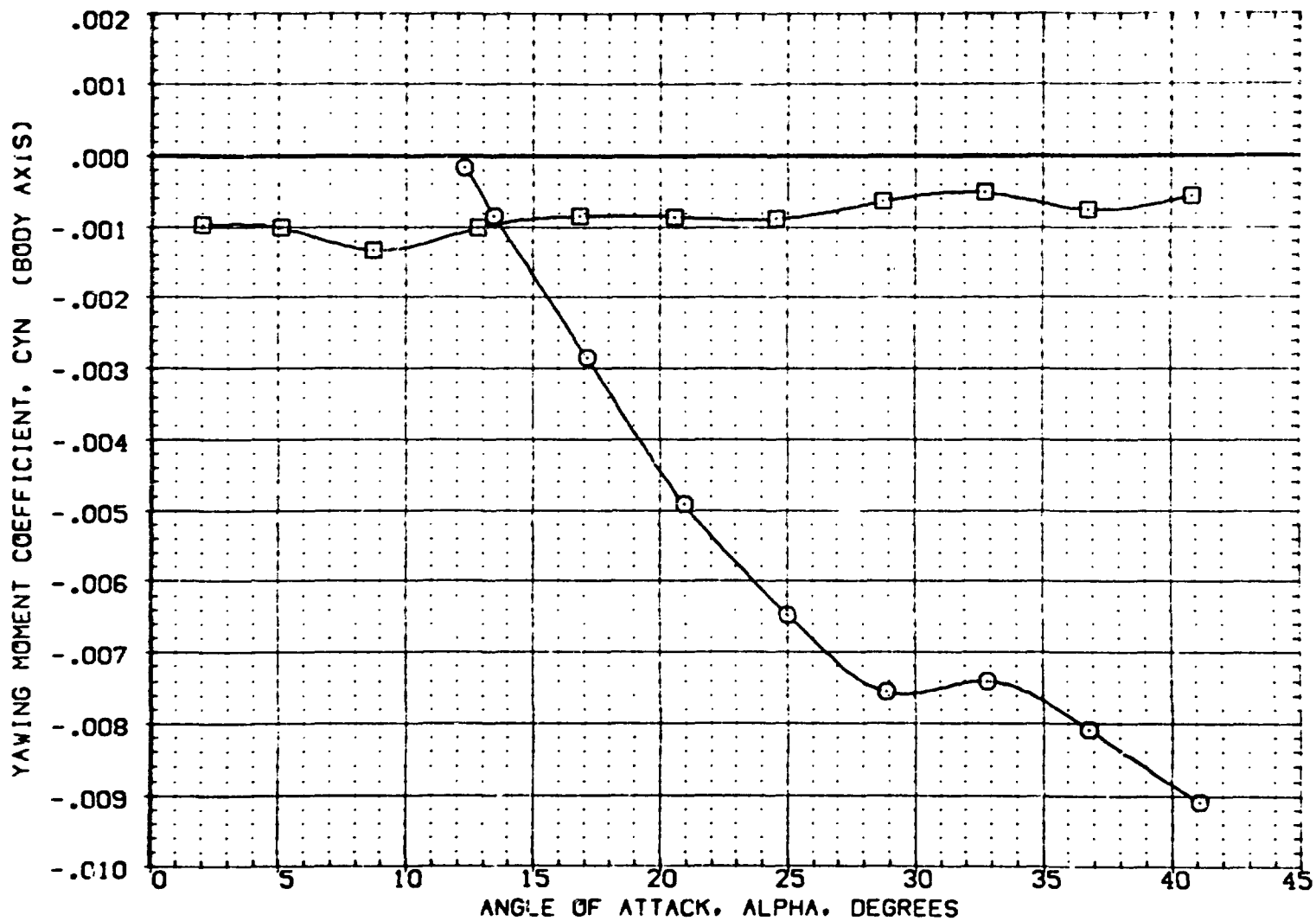


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(986007)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(986008)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0150 SCALE

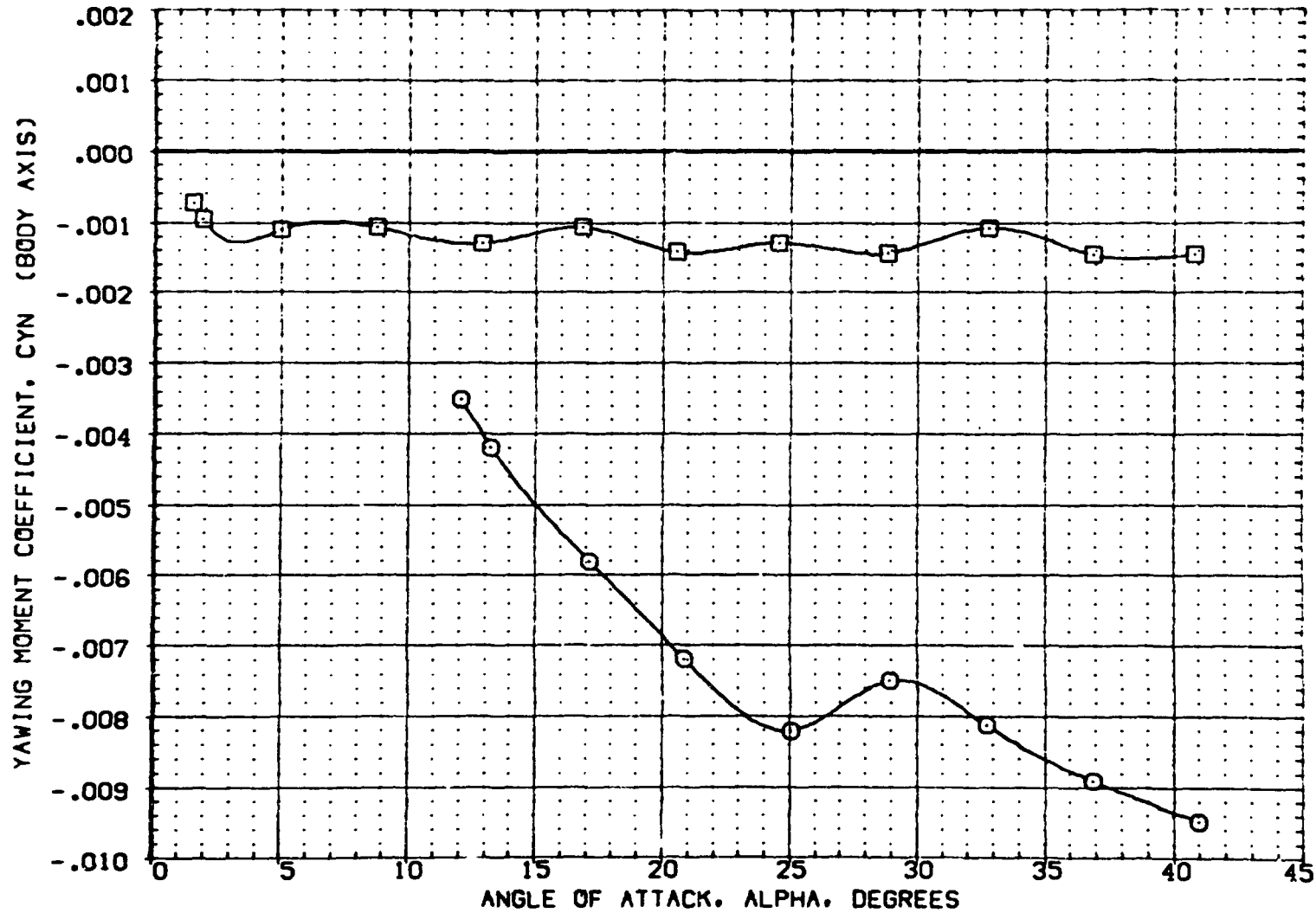


FIG. 6 SIDESLIP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B96002)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2650.0000 SQ.FT.
(B96001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

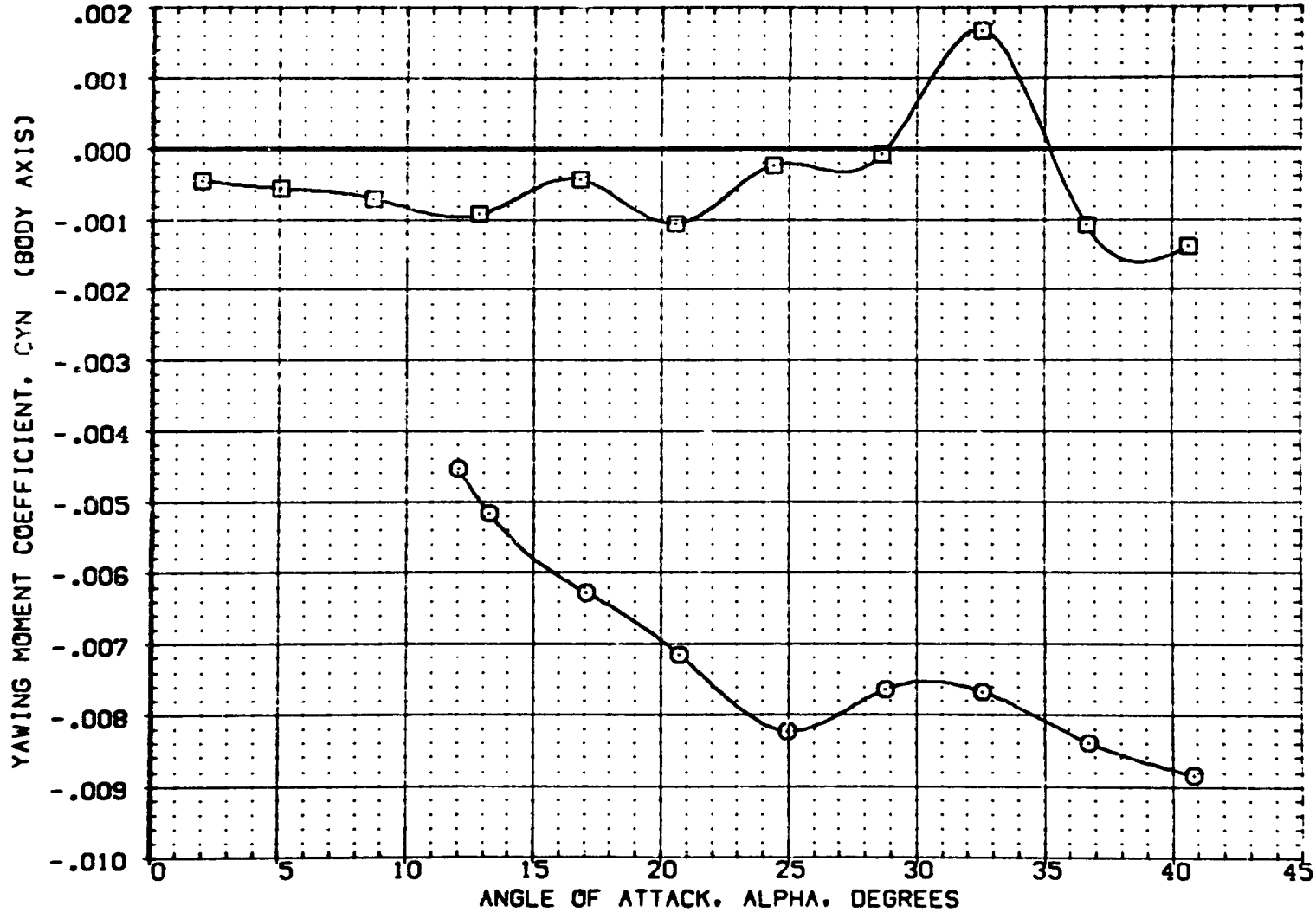


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (C)MACH = 10.29 PAGE 252



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(895002)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(895001)	AMES3.5-168 OA23 B22 C7 E23 F5 H4 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

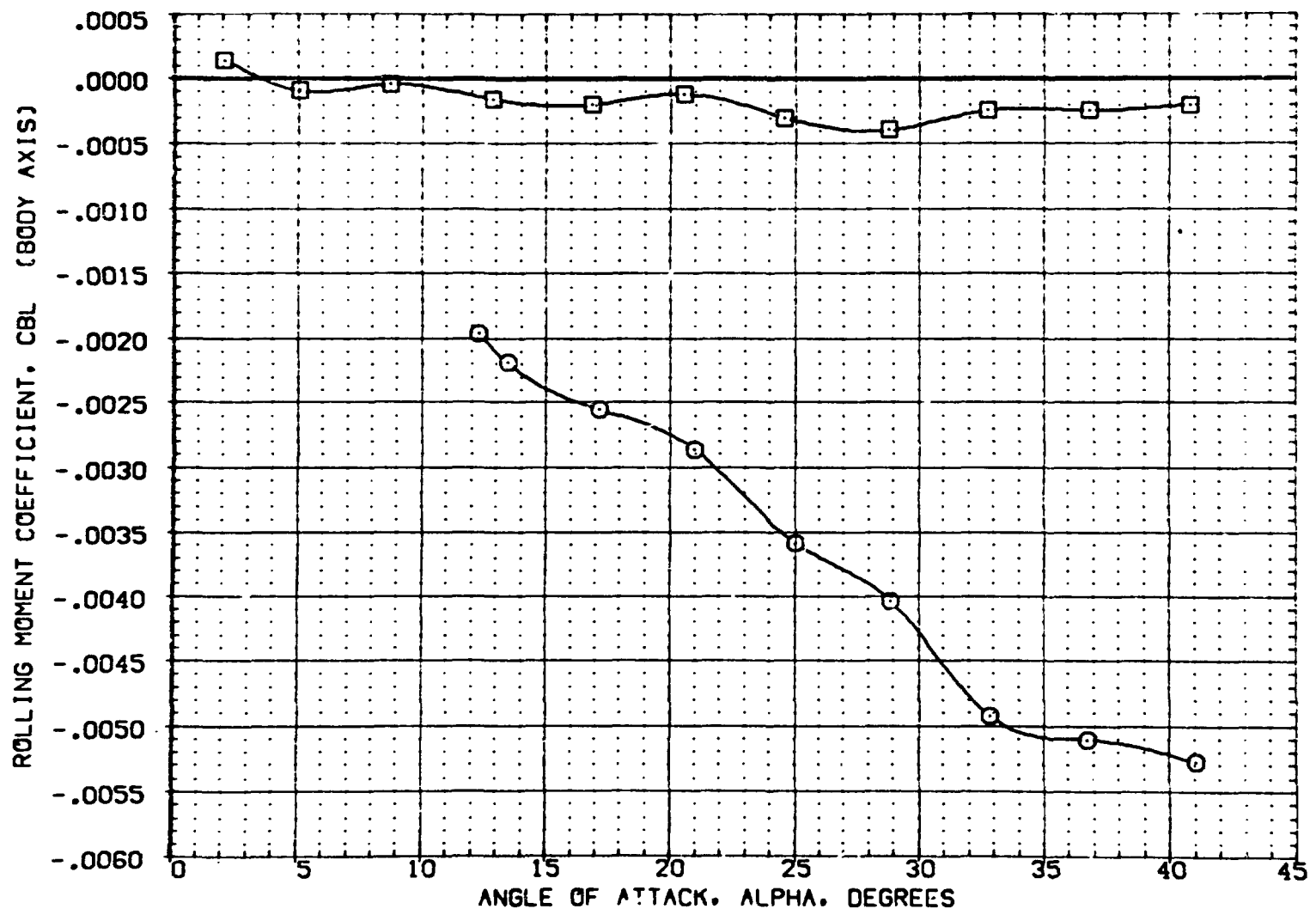


FIG. 6 SIDESLIP EFFECTS 147B CONFIGURATION (0.015-SCALE).
 (A)MACH = 5.26 PAGE 253

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDPLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B86002)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B86001)	AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0150 SCALE

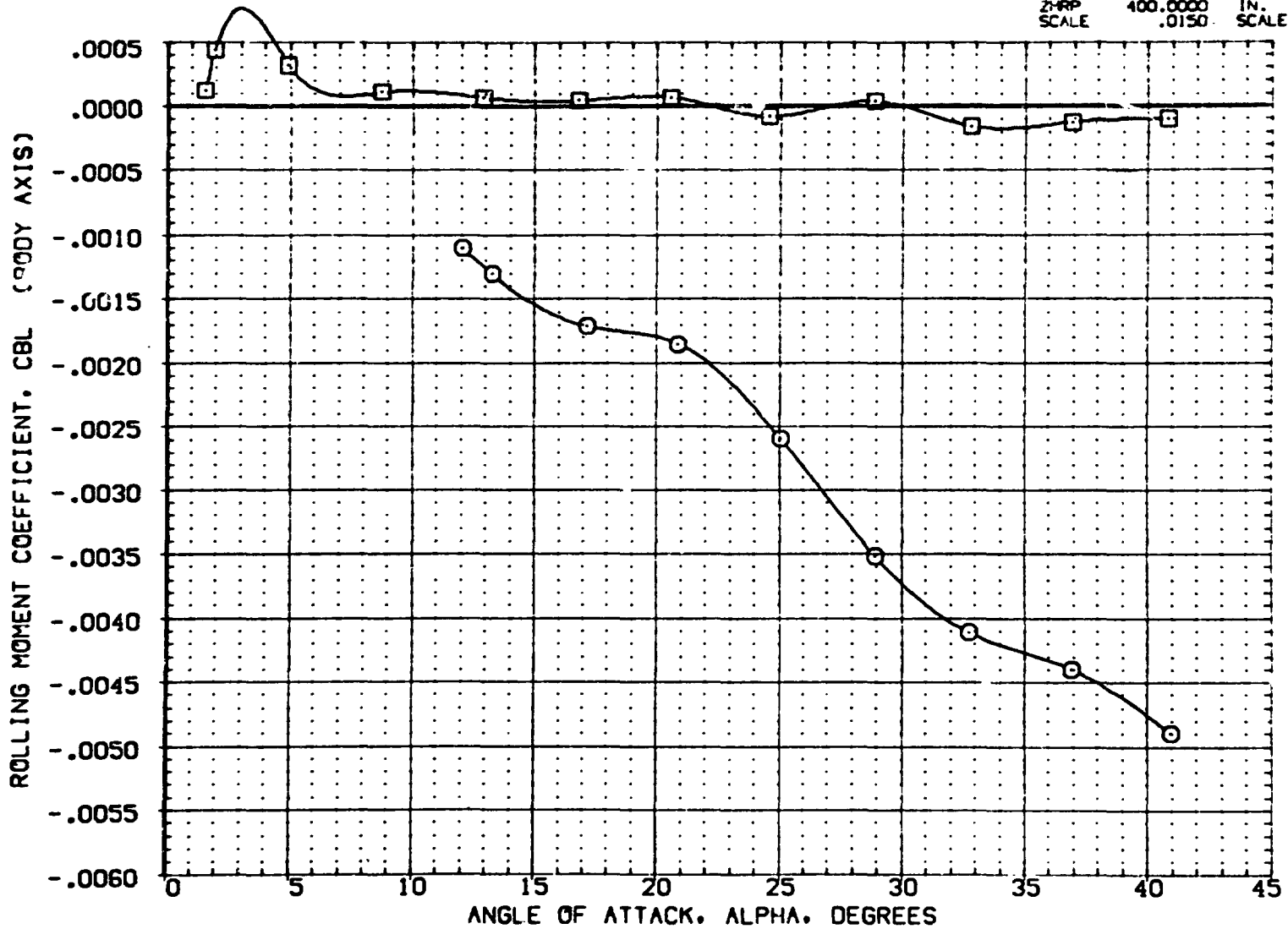


FIG. 6 SIDESLIP EFFECTS
(B)MACH = 7.32

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(996002)	□ AMES3.S-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0150 SCALE
(896001)	□ AMES3.S-168 OA23 B22 C7 E23 F5 M4 R5 V7 V107	.000	-14.250	55.000	.000	

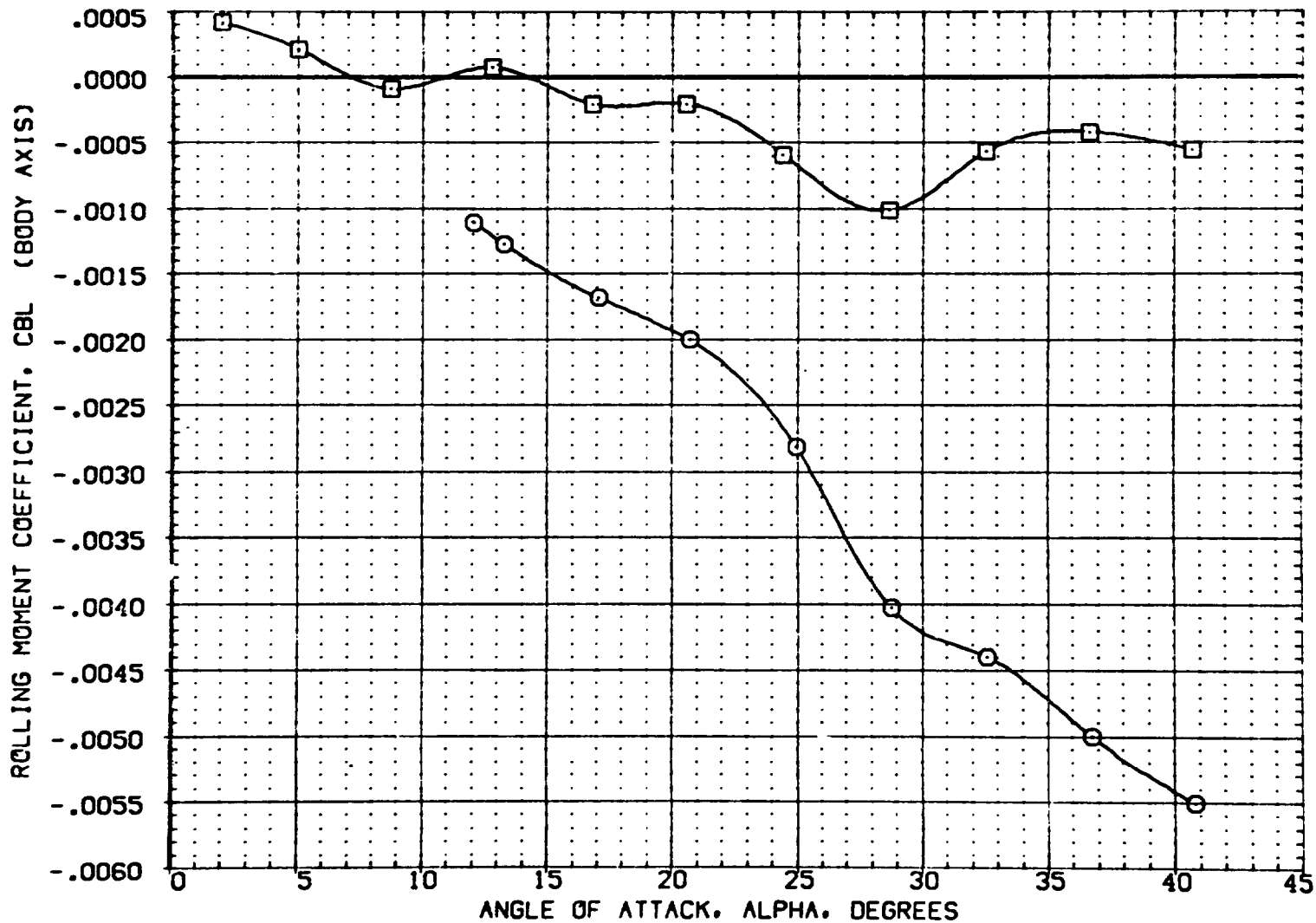


FIG. 6 SIDESLIP EFFECTS
 (C)MACH = 10.29
 147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (186002)

SYMBOL	MACH	OBETA	PARAMETRIC VALUES		
○	5.200	5.000	ELEVON	.000	
□	7.200	.000	BDFLAP	-14.250	
◇	10.200	55.000	RUDDER	.000	

REFERENCE INFORMATION		
SREF	2690.0000	SQ. FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

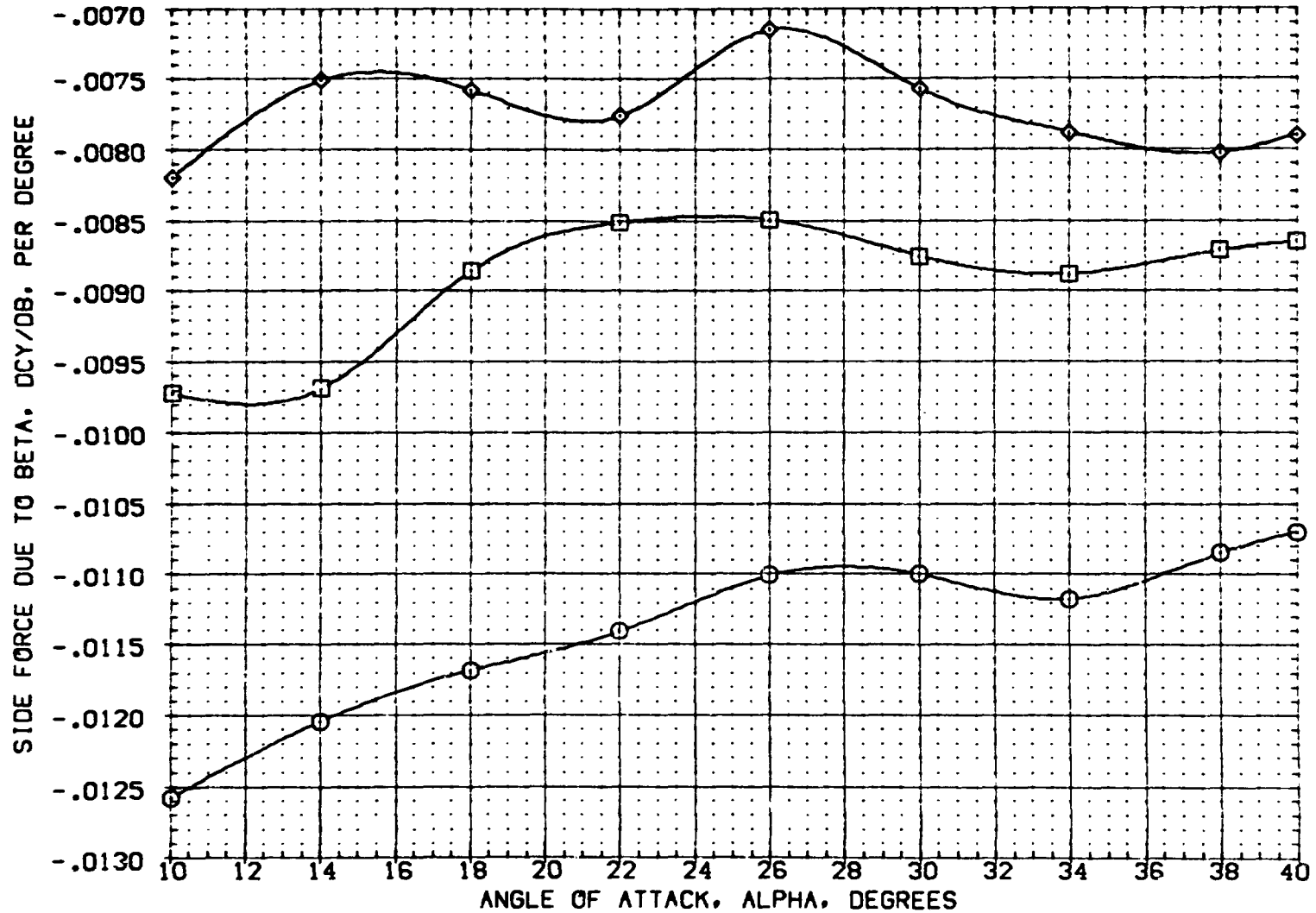


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (TB6002)

SYMBOL	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	5.200	DBETA 5.000 ELEVON .000	SREF 2690.0000 50. FT.
□	7.200	AILRON .000 BOFLAP -14.250	LREF 474.8000 IN.
◇	10.200	SPOBRK 55.000 RUDDER .000	BREF 936.6800 IN.
			XMRP 1076.4800 IN.
			YMRP .0000 IN.
			ZMRP 400.0000 IN.
			SCALE .0150 SCALE

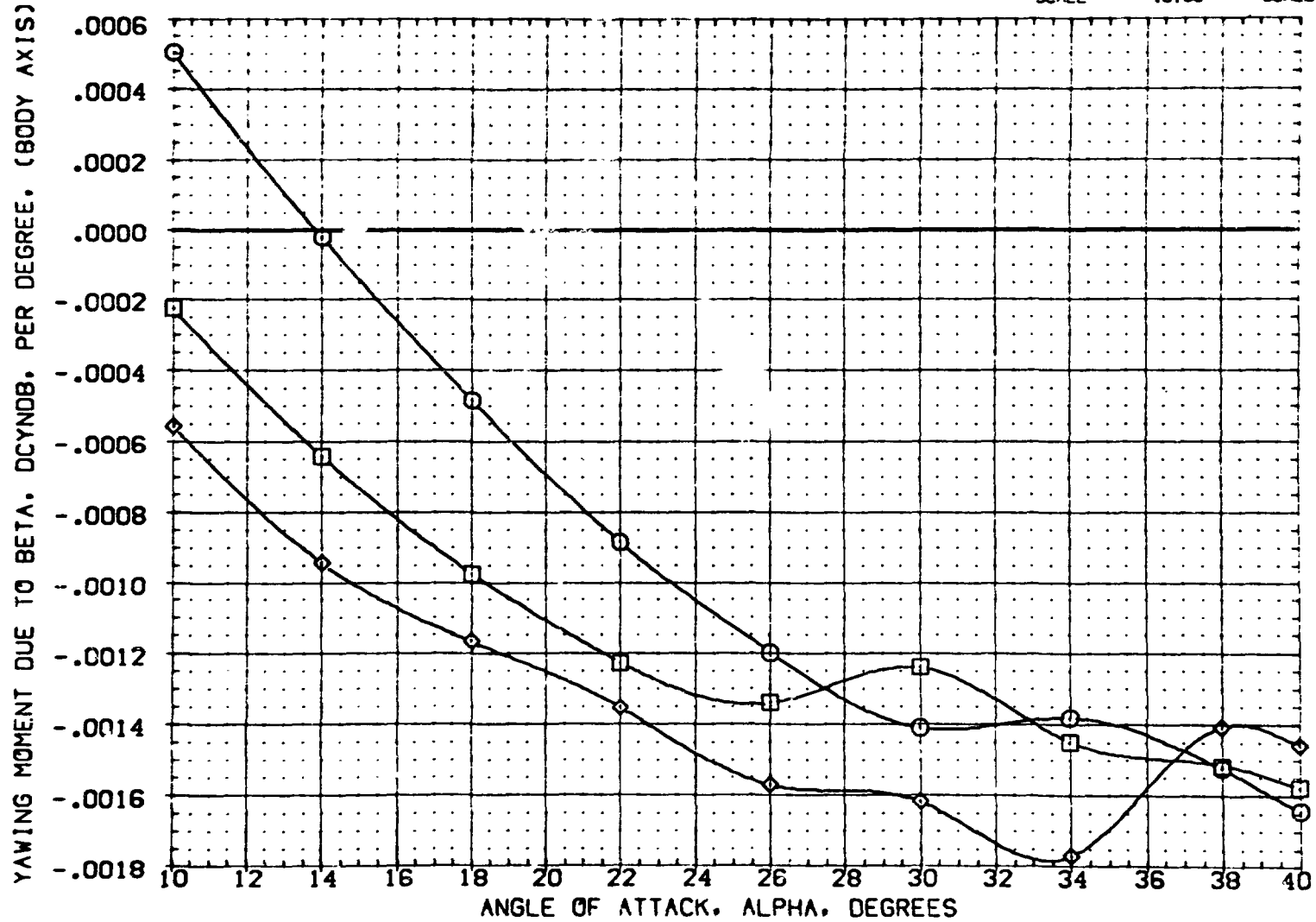


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (TB6002)

SYMBOL	MACH	PARAMETRIC VALUES
○	5.200	DBETA 5.000 ELEVON .000
□	7.200	A1LRON .000 BDFLAP -14.250
◇	10.200	SPOBRK 53.000 RUDDER .000

REFERENCE INFORMATION		
SREF	2690.0000	50.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

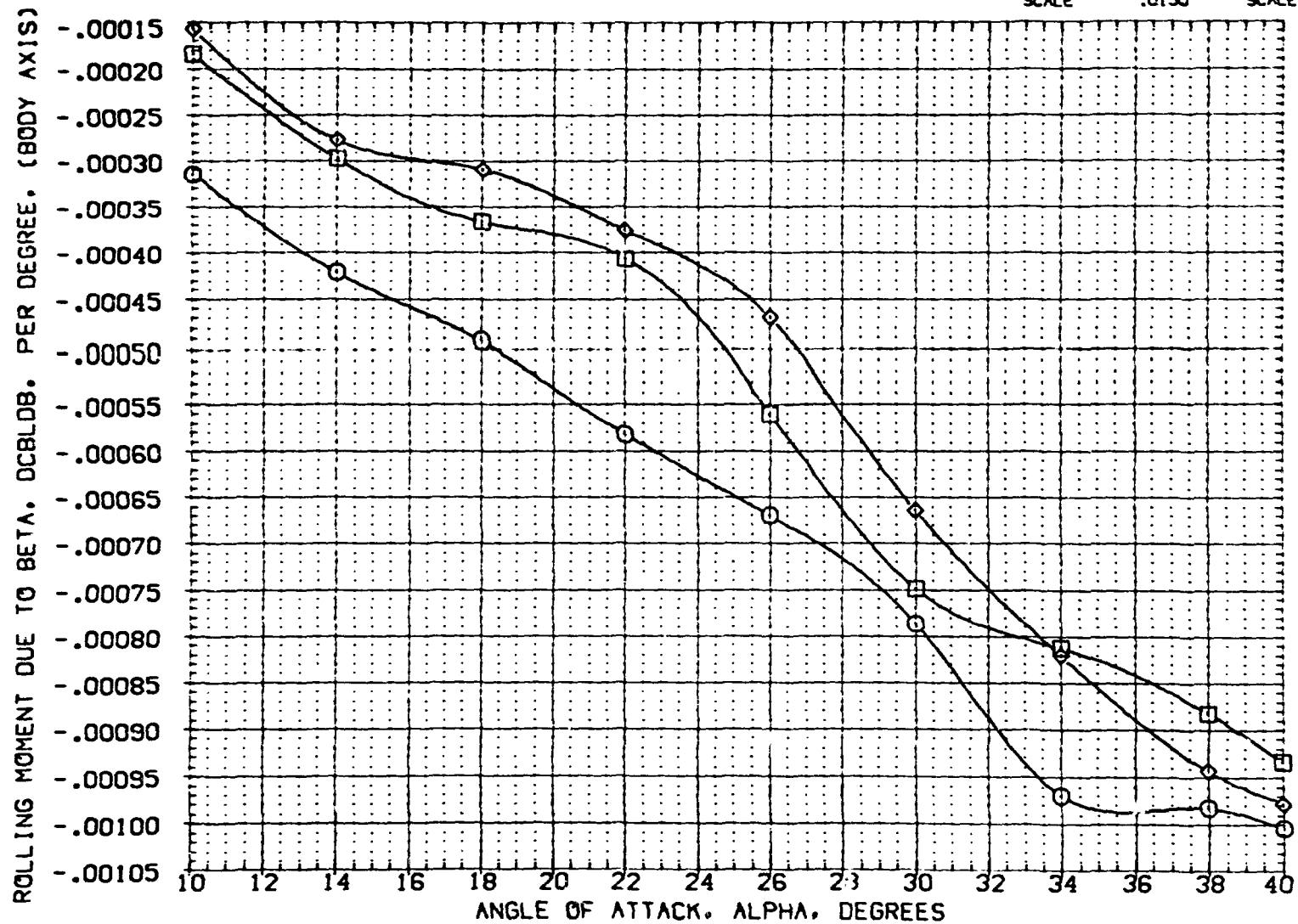


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6002)

SYMBOL	ALPHA	PARAMETRIC VALUES
○	10.000	DBETA 5.000 ELEVON .000
□	20.000	AIRLON .000 BOFLAP -14.250
◇	30.000	SPOBRK 55.000 RUDDER .000
△	40.000	

REFERENCE INFORMATION		
SREF	2690.0000	SQ.FT.
LREF	474.8000	IN.
BREF	936.6800	IN.
XMRP	1076.4800	IN.
YMRP	.0000	IN.
ZMRP	400.0000	IN.
SCALE	.0150	SCALE

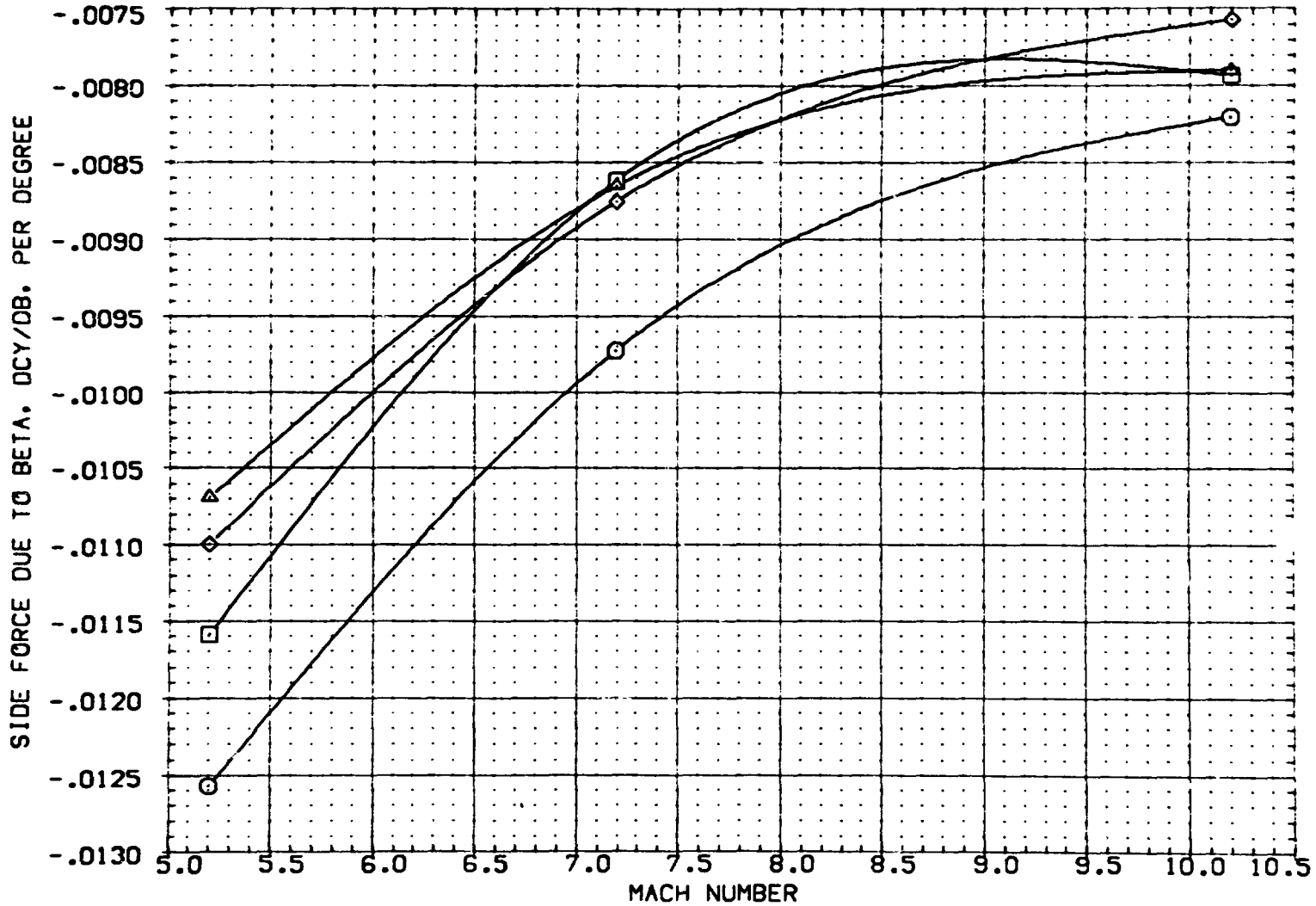


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6002)

SYMBOL	ALPHA	DBETA	PARAMETRIC VALUES			REFERENCE INFORMATION		
○	10.000	DBETA	5.000	ELEVON	.000	SREF	2690.0000	SQ.FT.
□	20.000	AILRON	.000	BOFLAP	-14.250	LREF	474.8000	IN.
◇	30.000	SPOBRK	95.000	RUDDER	.000	BREF	936.6800	IN.
△	40.000					XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0150	SCALE

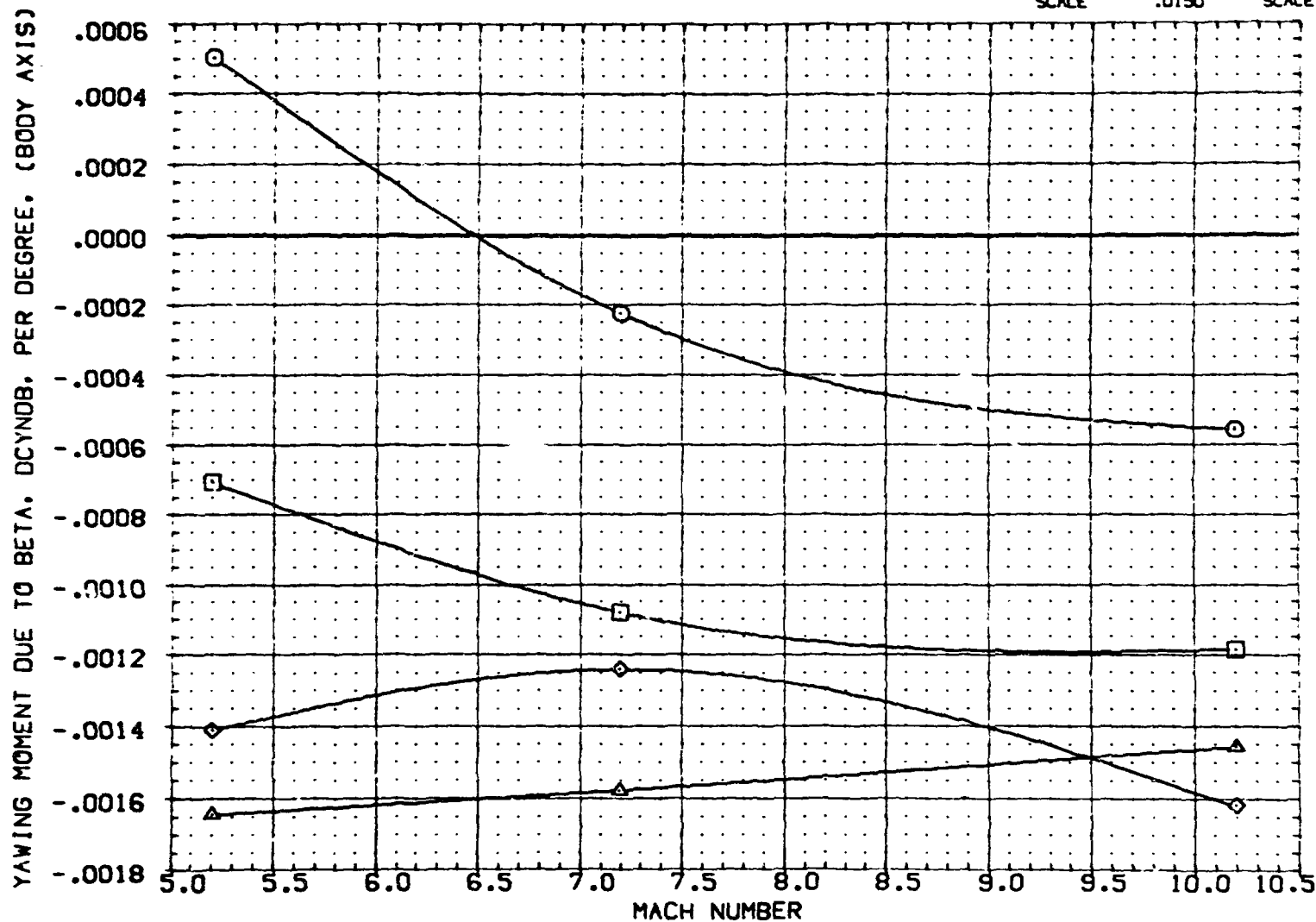


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

AMES3.5-168 0A23 B22 C7 E23 F5 M4 R5 V7 W107 (UB6002)

SYMBOL	ALPHA	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	10.000	DBETA	5.000	ELEVON	.000	SREF	2790.0000	SQ.FT.
□	20.000	AILERON	.000	BOFLAP	-14.250	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	BREF	936.6800	IN.
△	40.000					XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0150	SCALE

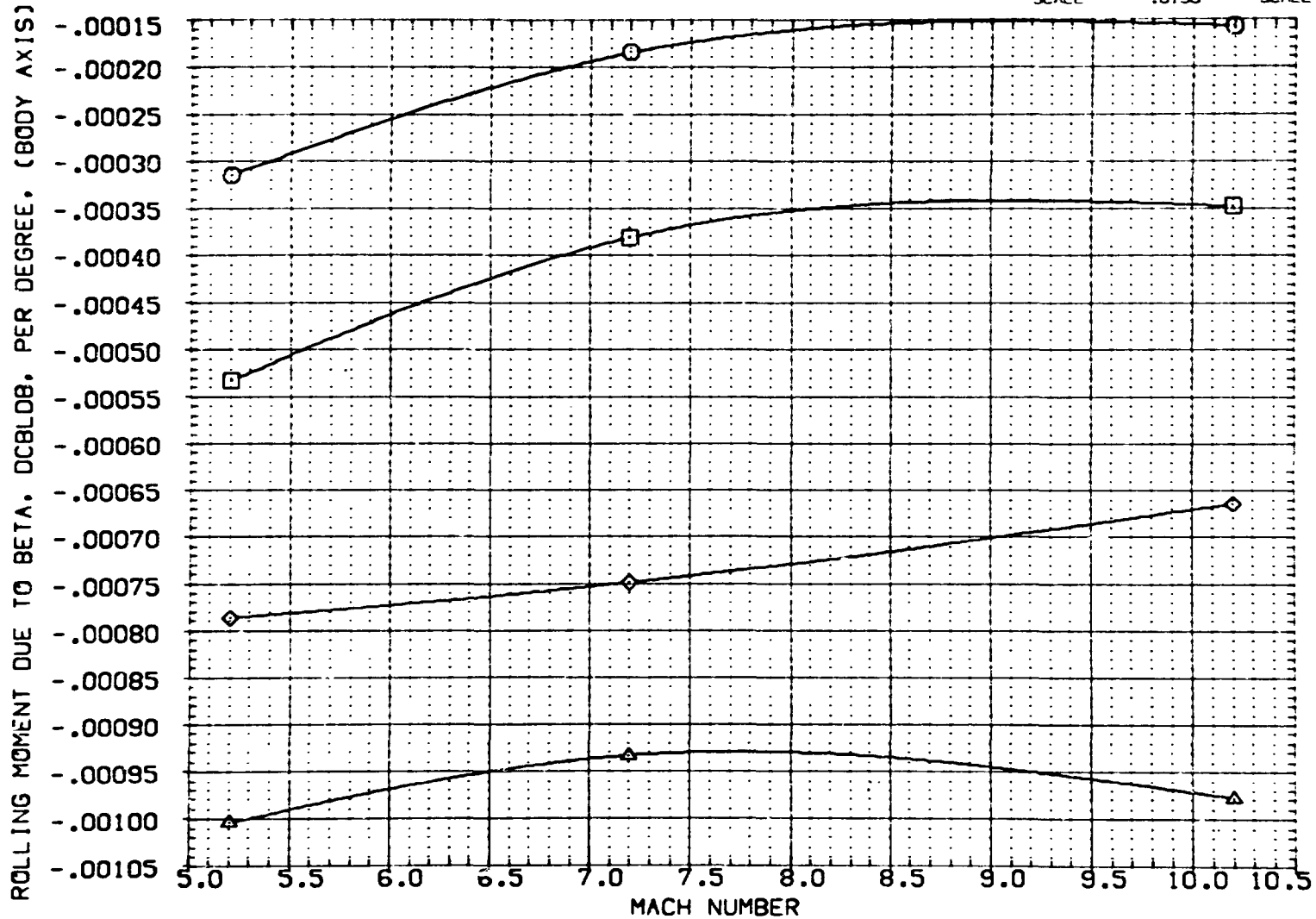


FIG. 6 SIDESLIP EFFECTS

147B CONFIGURATION (0.015-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B66012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107		-14.256	55.000	.000	SREF 2690.0000 SQ. FT.
(B66018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.256	55.000	.000	LREF 474.8000 IN.
(B66019)	DATA NOT AVAILABLE	-30.000	-14.256	55.000	.000	BREF 936.6000 IN.
(B66070)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.256	55.000	.000	XMRP 1076.4000 IN.
(B66071)	DATA NOT AVAILABLE	-10.000	-14.256	55.000	.000	YMRP .0000 IN.
(B66013)	DATA NOT AVAILABLE	10.000	-14.256	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0:00 SCALE

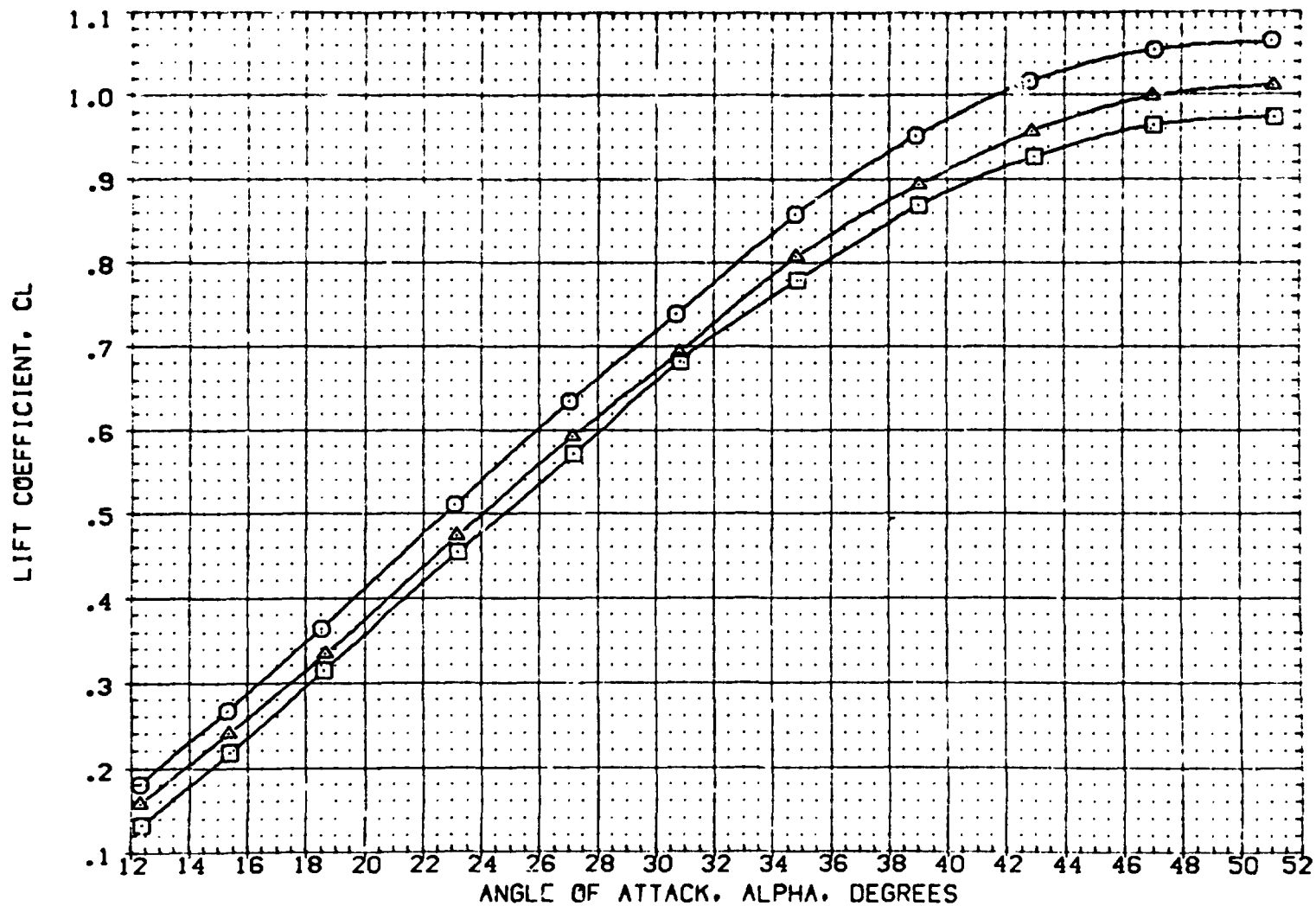


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(8960:7)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF .2690.0000 50.FT.
(8960:8)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(8960:9)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(8960:10)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(8960:11)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(8960:12)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

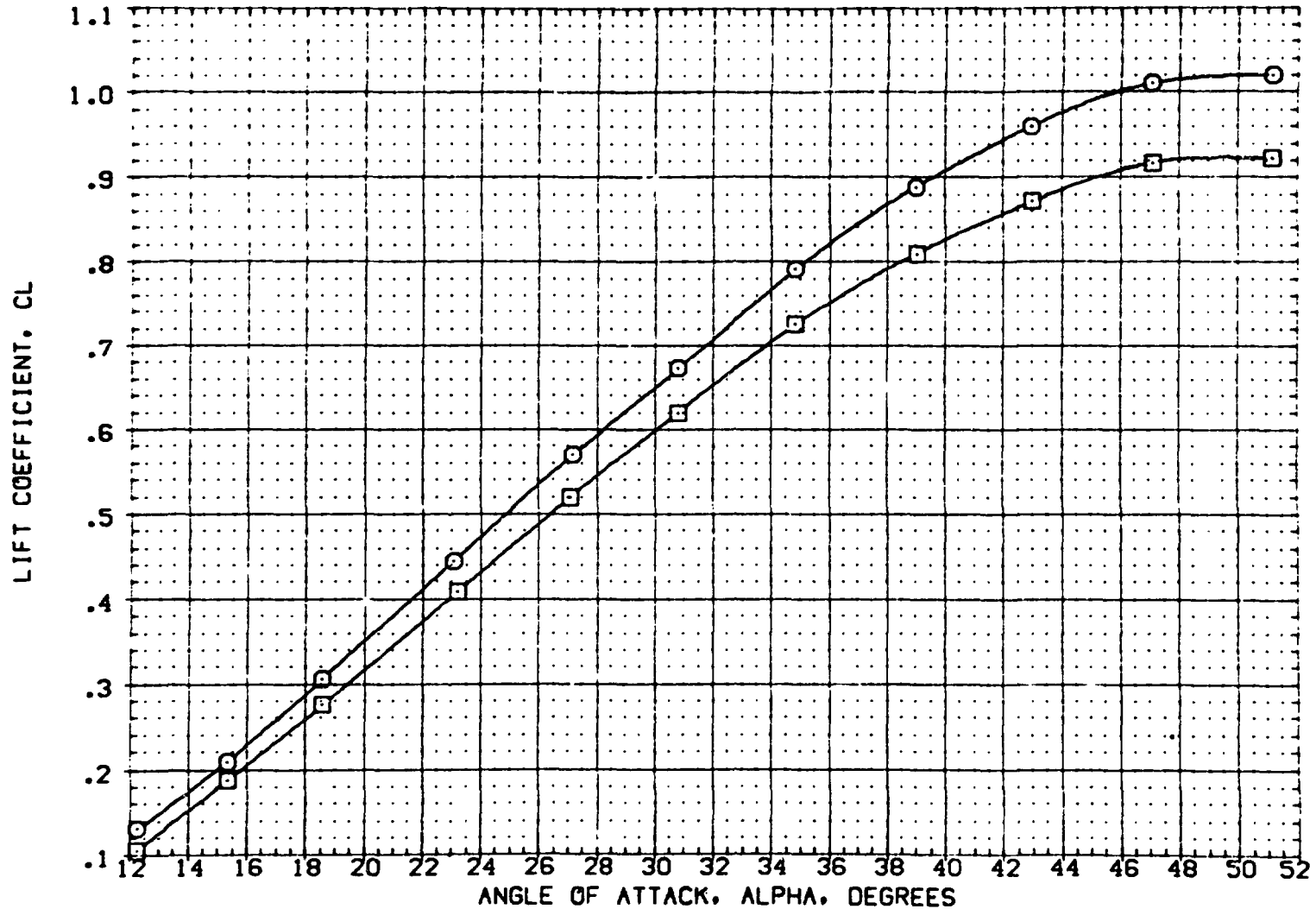


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B6012)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B6018)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C6019)	×	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C6020)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C6021)	◇	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP 0000 IN.
(C6013)	◇	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

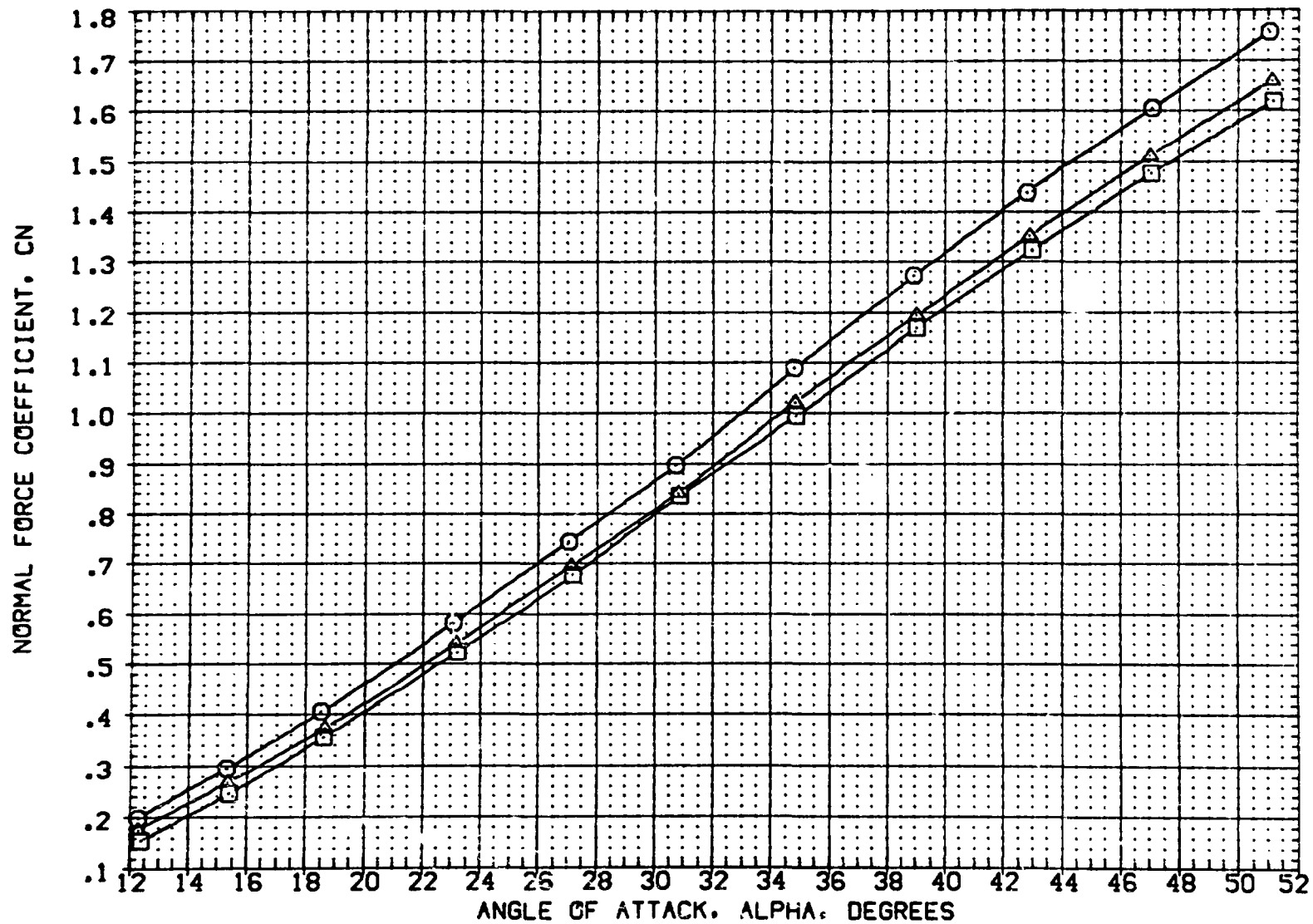


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(886018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
(886019)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(886020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	-30.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(886021)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	-40.000	-14.250	55.000	.000	YMRP 1000.0000 IN.
(886013)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 P2 Q2 R2 S7 V107	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

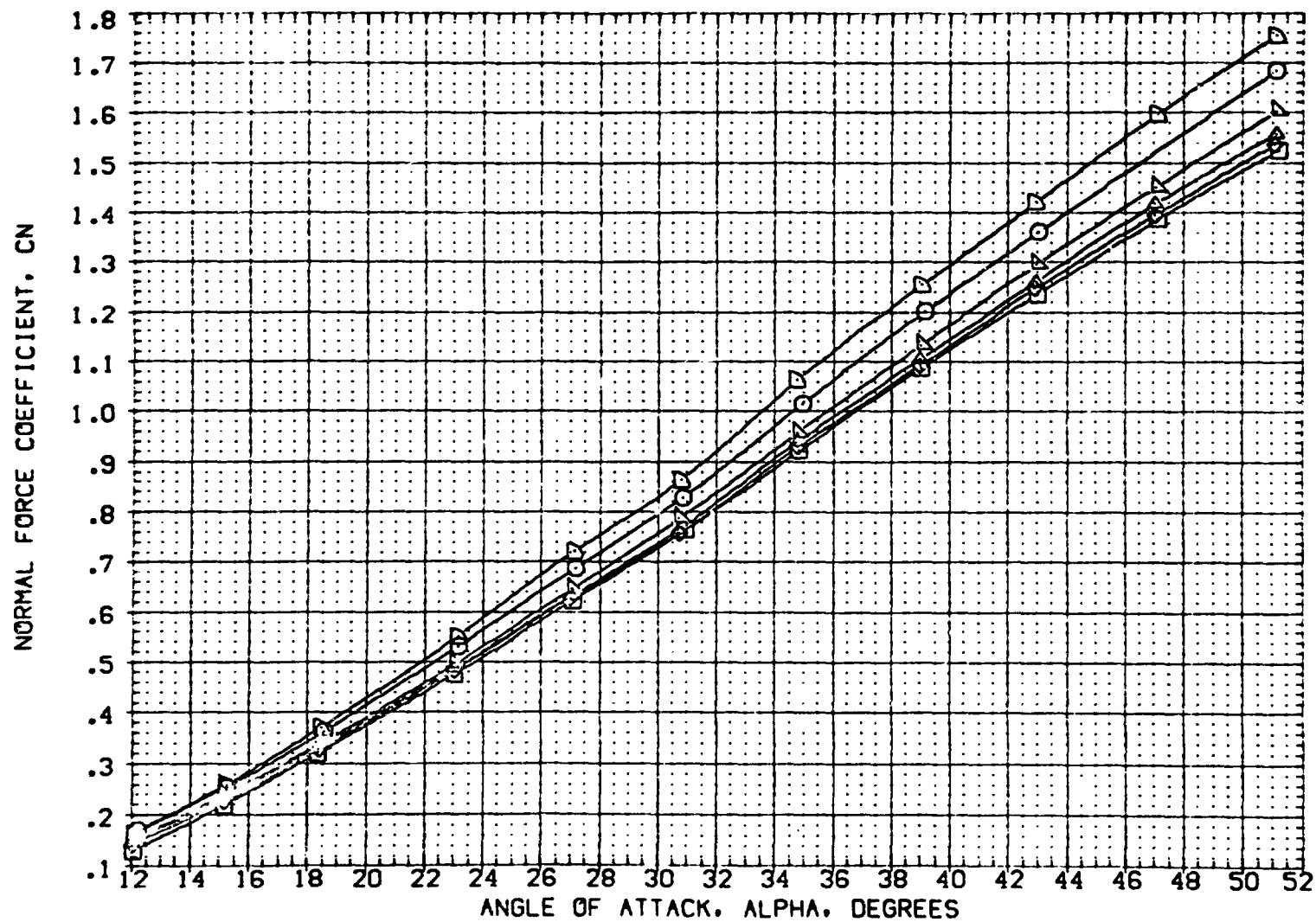


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(8)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
0860(12)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
0860(18)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
0860(19)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	BREF 936.6800 IN.
0860(20)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
0860(21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
0860(23)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

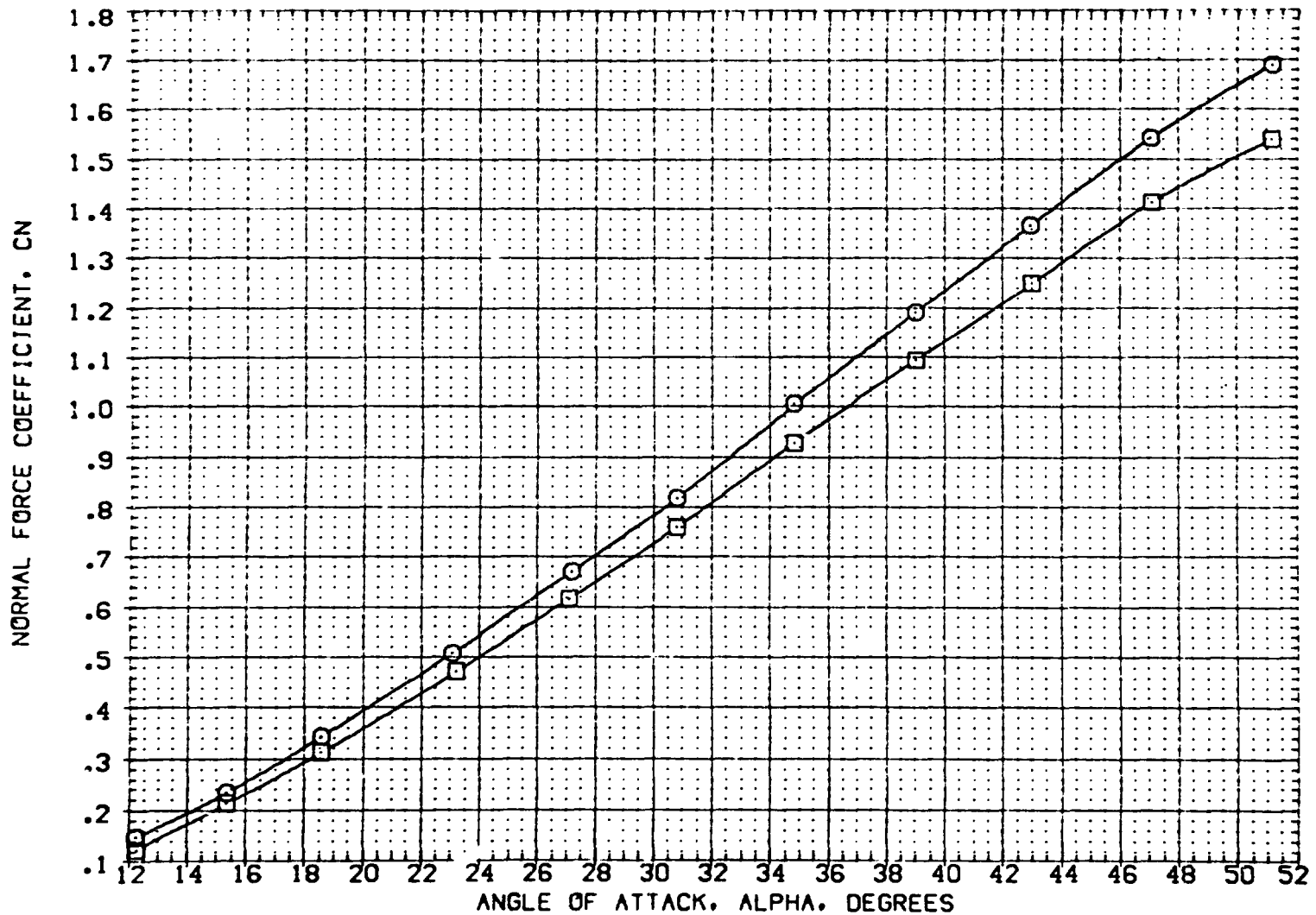


FIG. 7 F¹EVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDRBK	RUDDER	REFERENCE INFORMATION
(8960:2)	D	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(8960:8)		AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(8960:9)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(8960:20)		AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(8960:21)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(8960:3)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

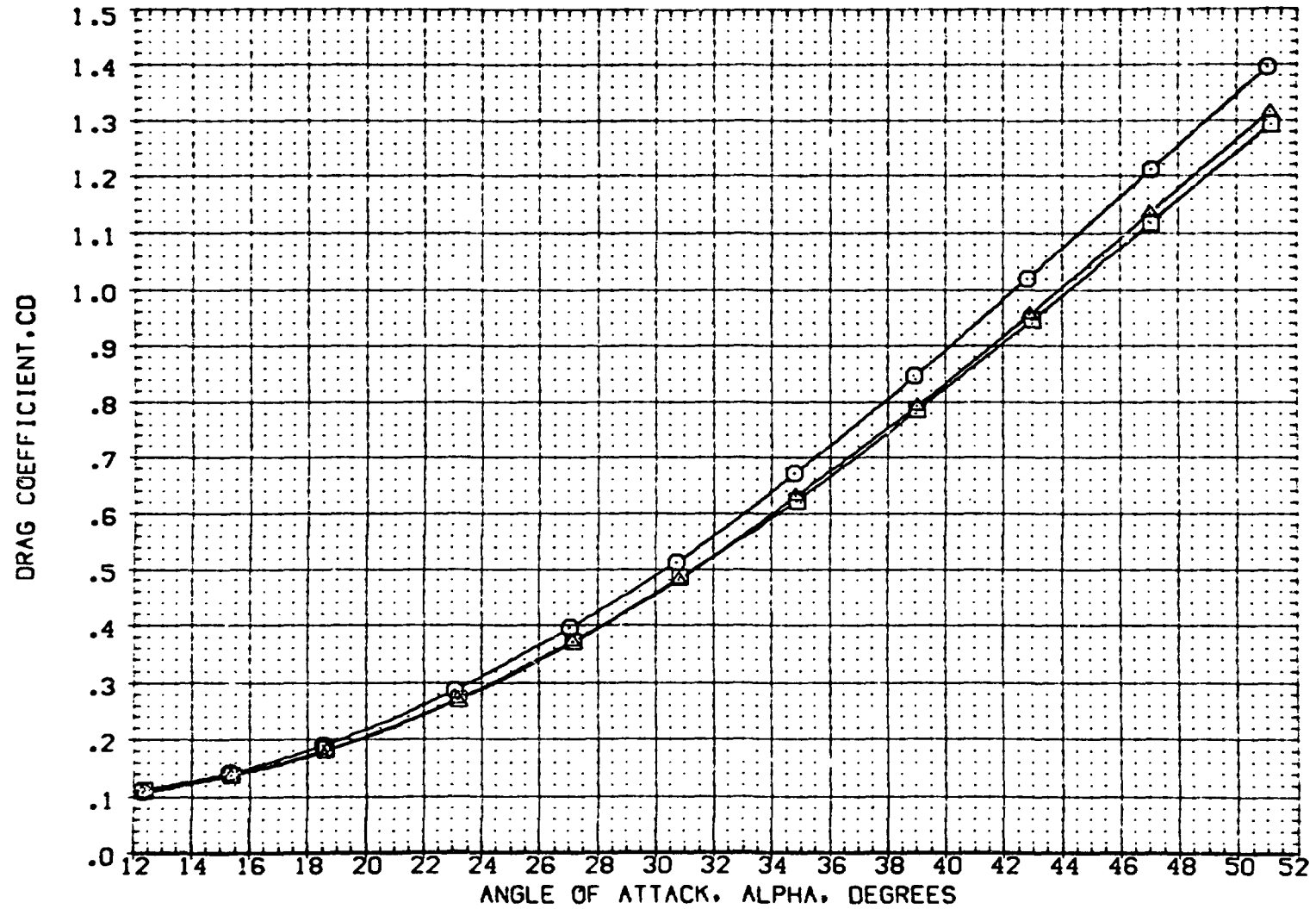


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B960:2)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B960:8)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B960:9)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B960:10)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B960:11)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(B960:13)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

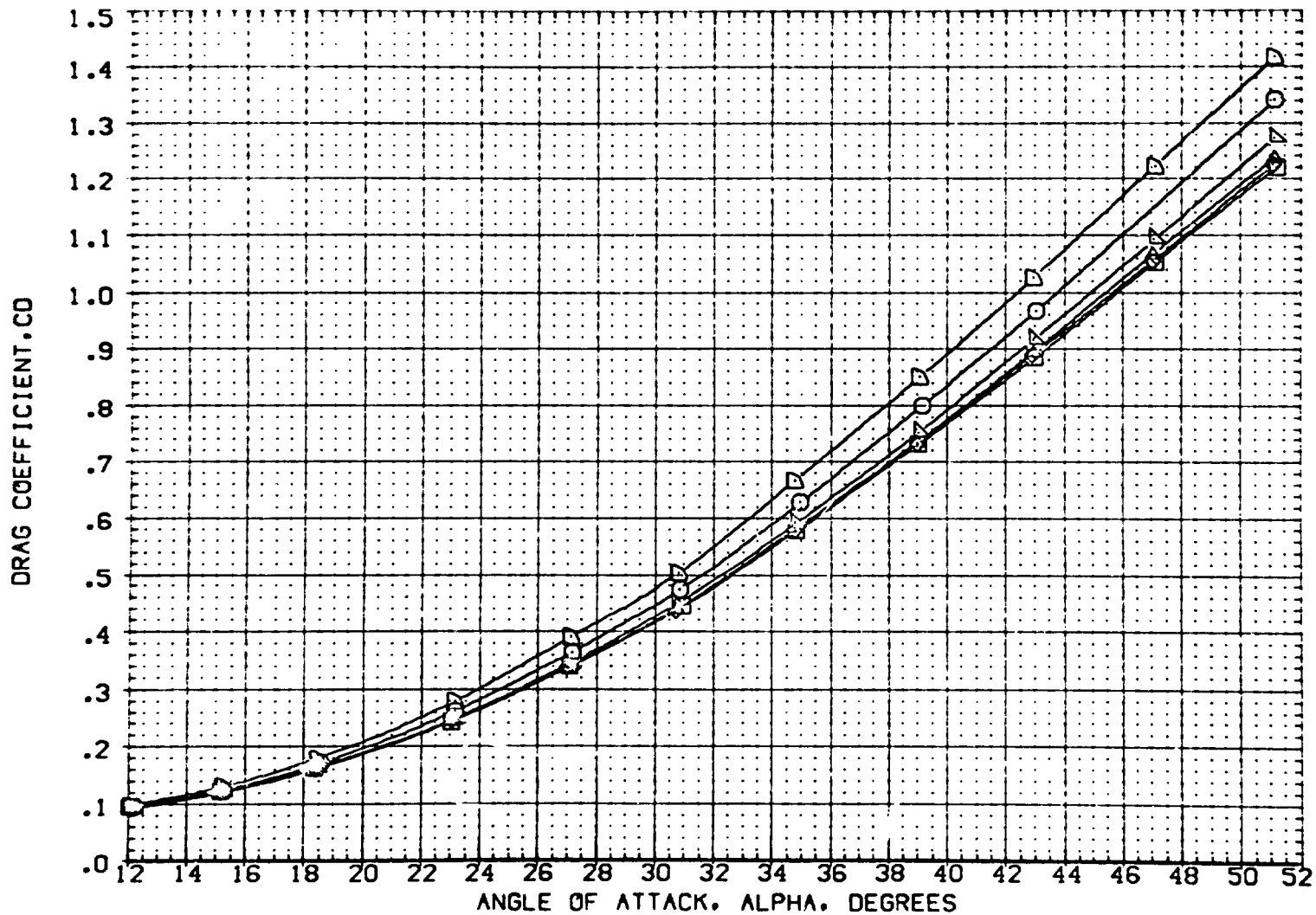


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B96C12)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B96C18)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C96C:9)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C96C20)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C96C21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C96C:3)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

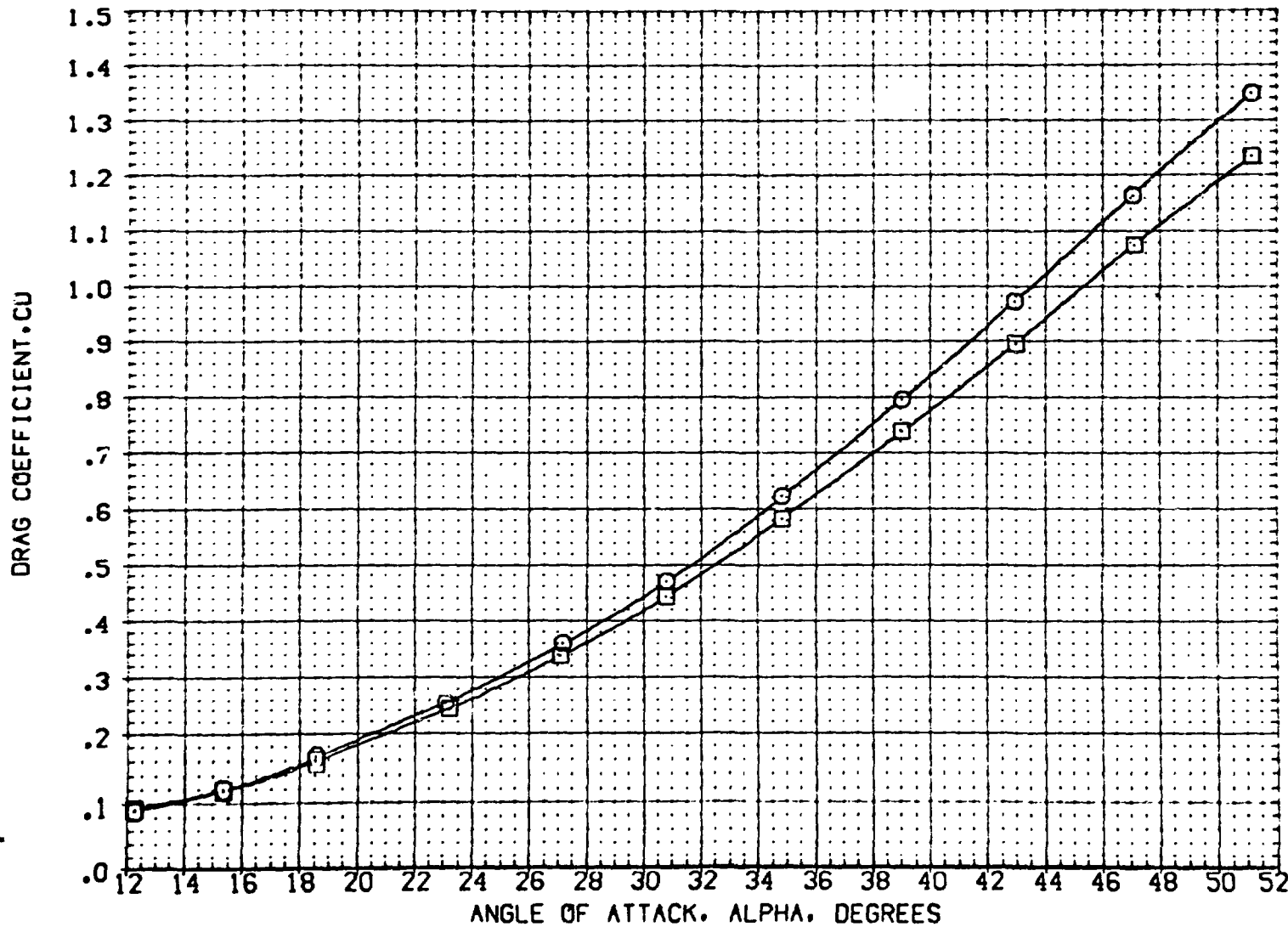


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B95012)	AMES3.5-168 OA23 819 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B95018)	AMES3.5-168 OA23 819 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C95019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C95020)	AMES3.5-168 OA23 819 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.1800 IN.
(C95021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C95013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

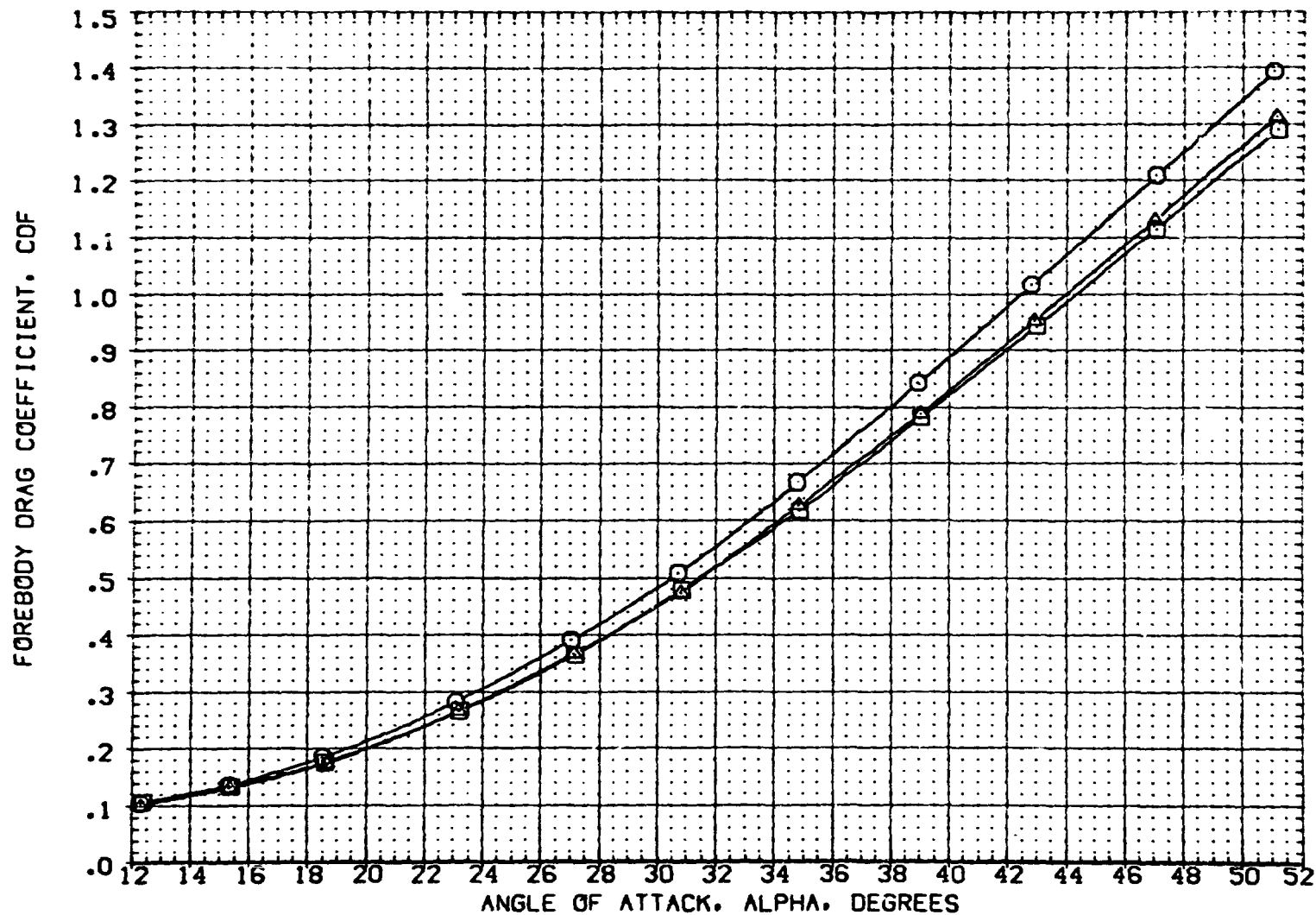


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B)60:2)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B)60:8)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	LREF 474.8000 IN.
(B)60:9)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	BREF 936.6800 IN.
(B)60:20)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B)60:21)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	YMRP 1000.0000 IN.
(B)60:22)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	-14.0000	-14.250	55.000	.000	ZMRP 400.0000 IN.
(B)60:3)	AME53.5-168 OA23 819 C7 E23 F5 34 36 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	10.0000	-14.250	55.000	.000	SCALE .0100 SCALE

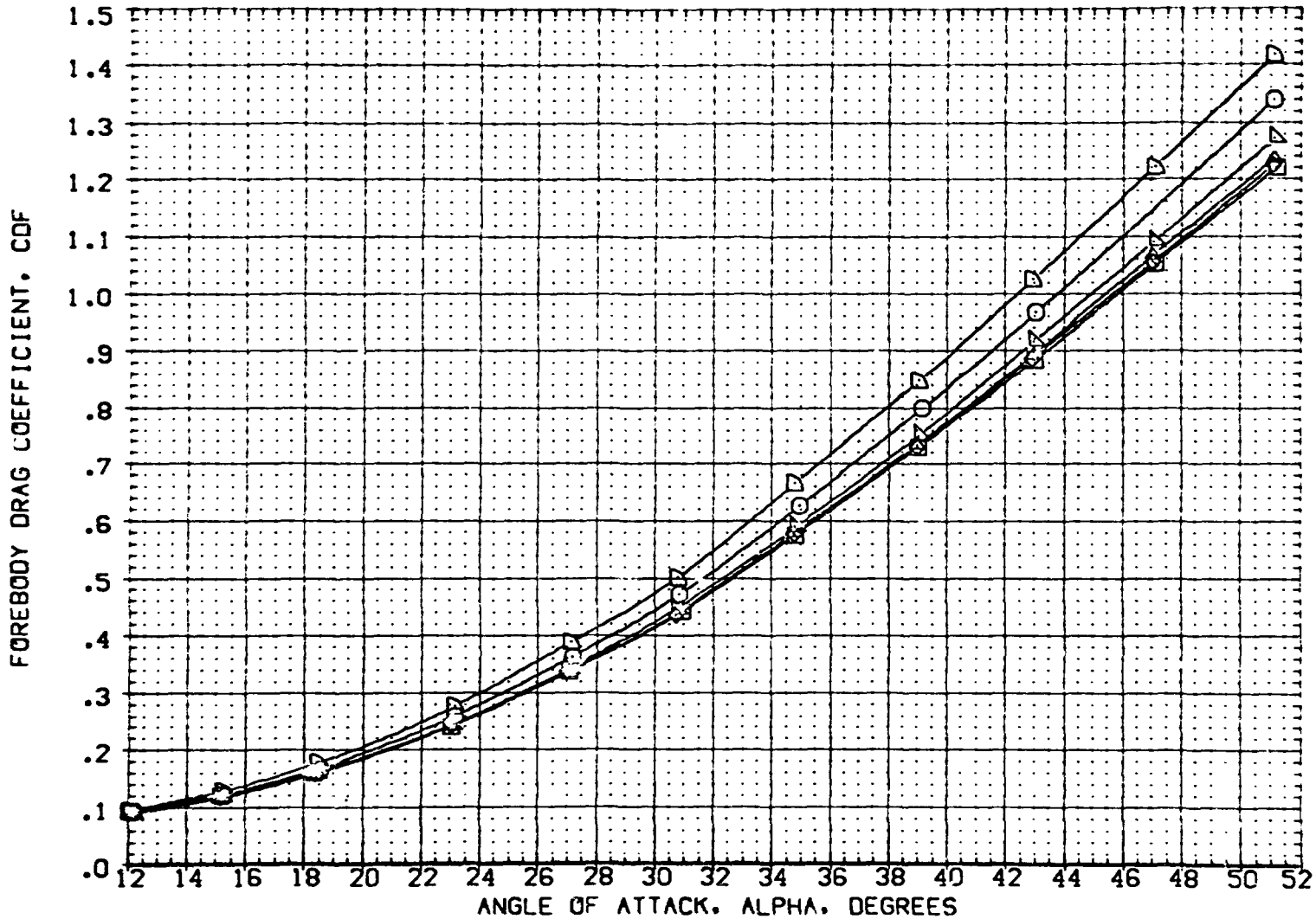


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(8860:2)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(8860:8)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C960:9)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C960:70)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C960:2)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C960:3)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

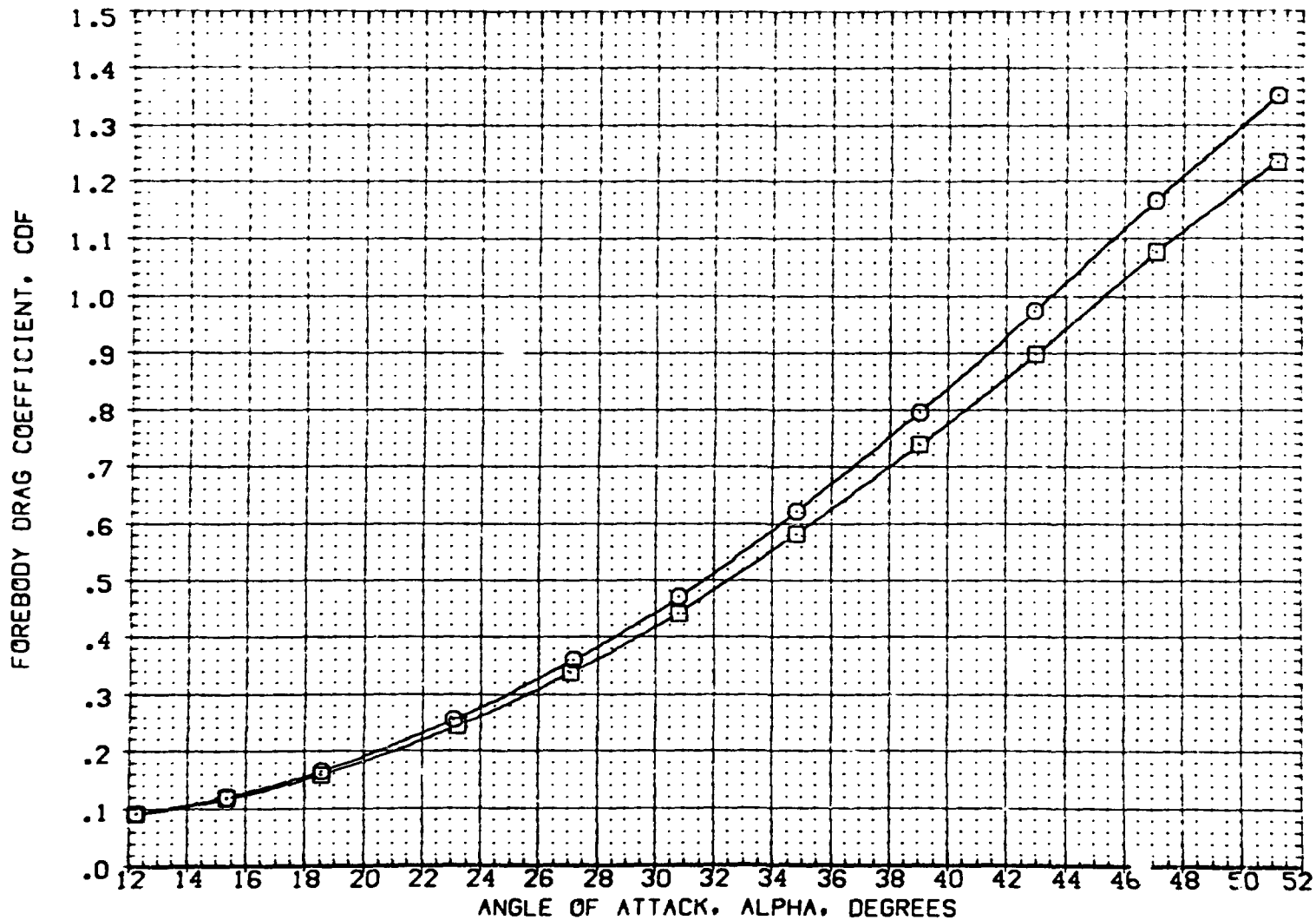


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(896012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(896018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(CB6013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

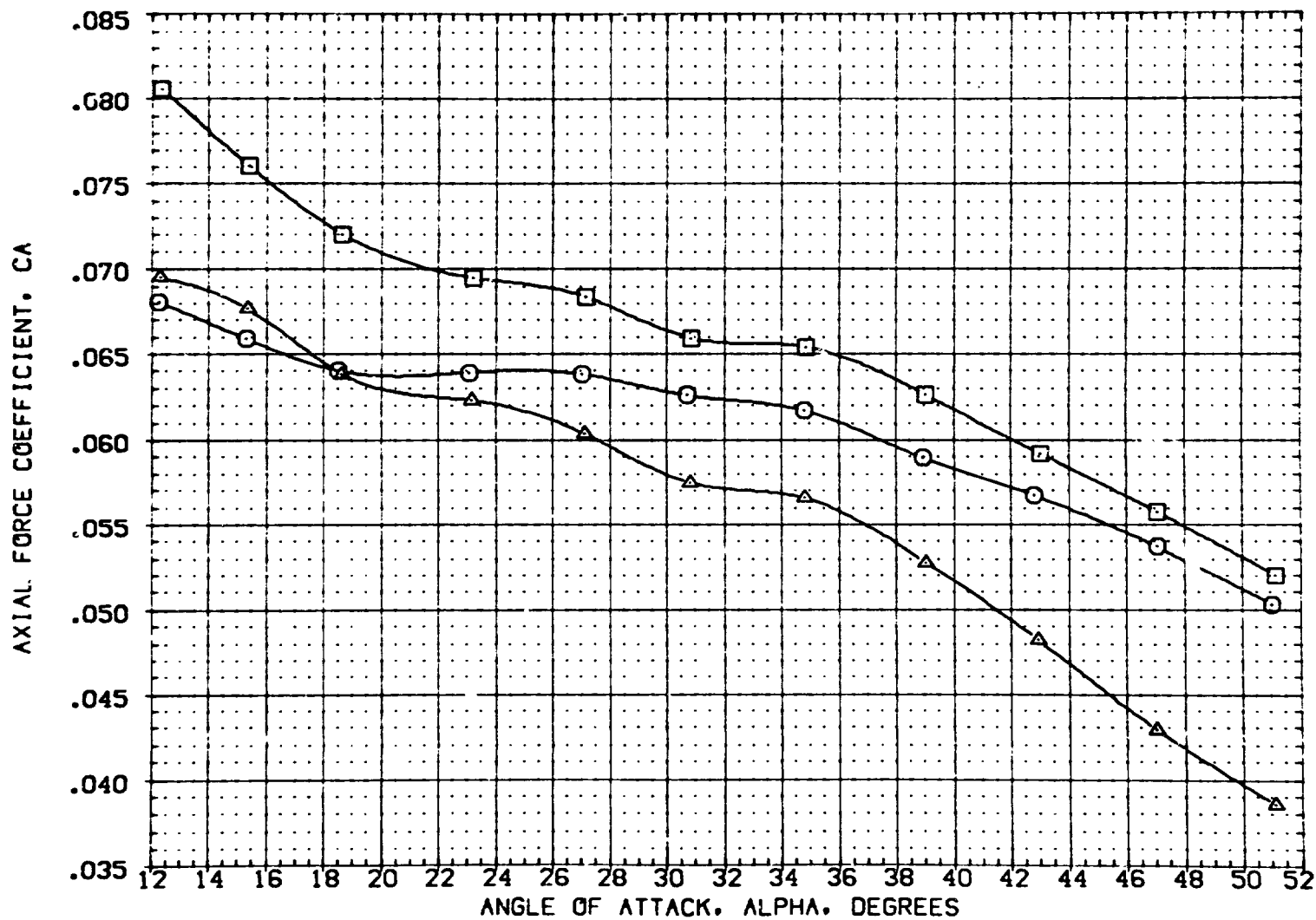


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B96012)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B96018)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B96019)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B96020)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B96021)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(B96013)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

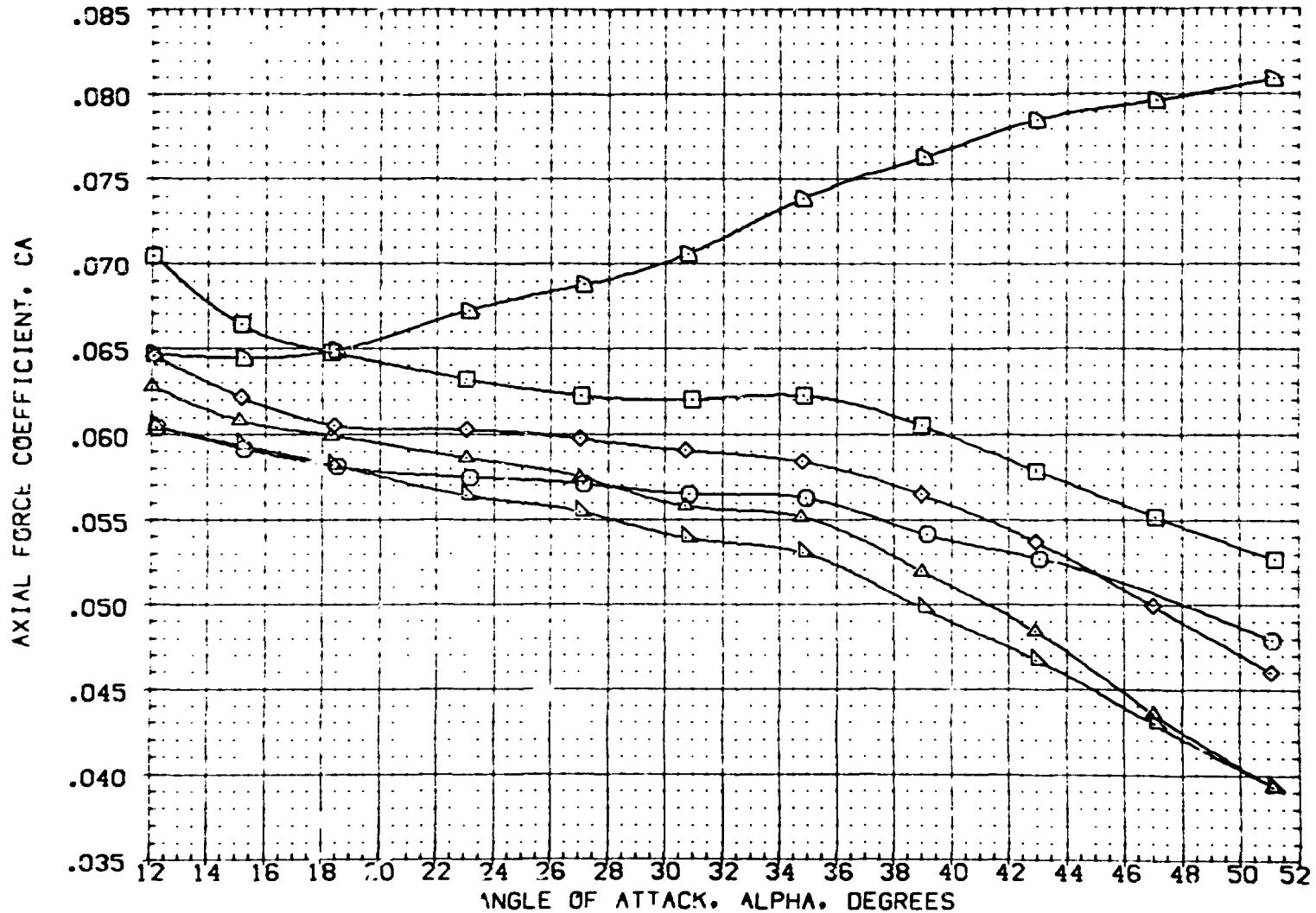


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPODBRK	RUDDER	REFERENCE INFORMATION
(C96012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.0000	-14.2500	55.0000	.0000	SREF 2690.0000 SQ.FT.
(C96018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-30.0000	-14.2500	55.0000	.0000	LREF 474.8000 IN.
(C96019)	DATA NOT AVAILABLE	-20.0000	-14.2500	55.0000	.0000	BREF 936.6800 IN.
(C96020)	DATA NOT AVAILABLE	-10.0000	-14.2500	55.0000	.0000	XREF 1776.4800 IN.
(C96021)	DATA NOT AVAILABLE	-10.0000	-14.2500	55.0000	.0000	YREF .0000 IN.
(C96013)	DATA NOT AVAILABLE	10.0000	-14.2500	55.0000	.0000	ZREF 400.0000 IN.
						SCALE .0100 SCALE

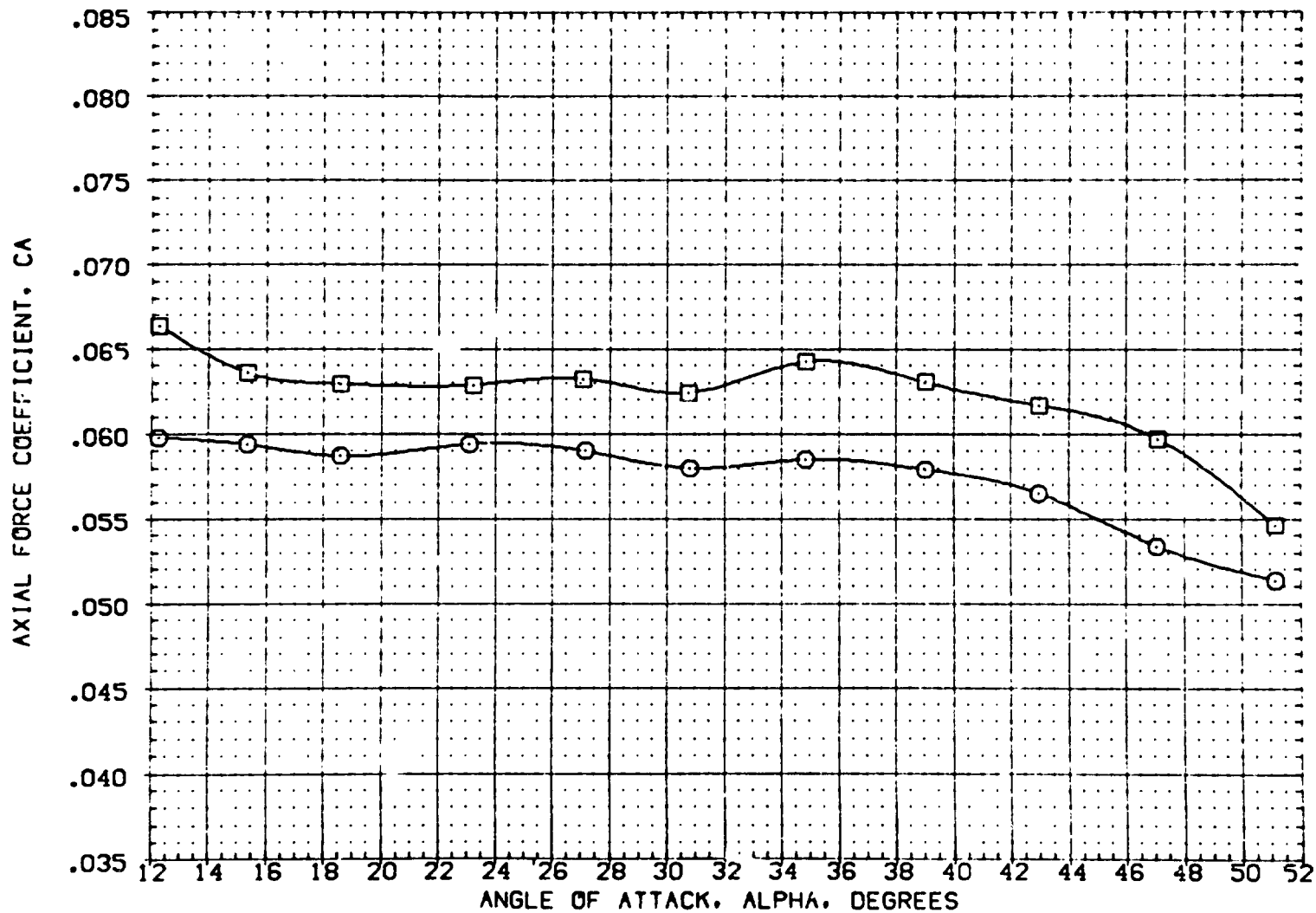


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
0960:2)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
0960:18)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
0960:9)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 935.0000 IN.
0960:20)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
0960:21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP 1000.0000 IN.
0960:3)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

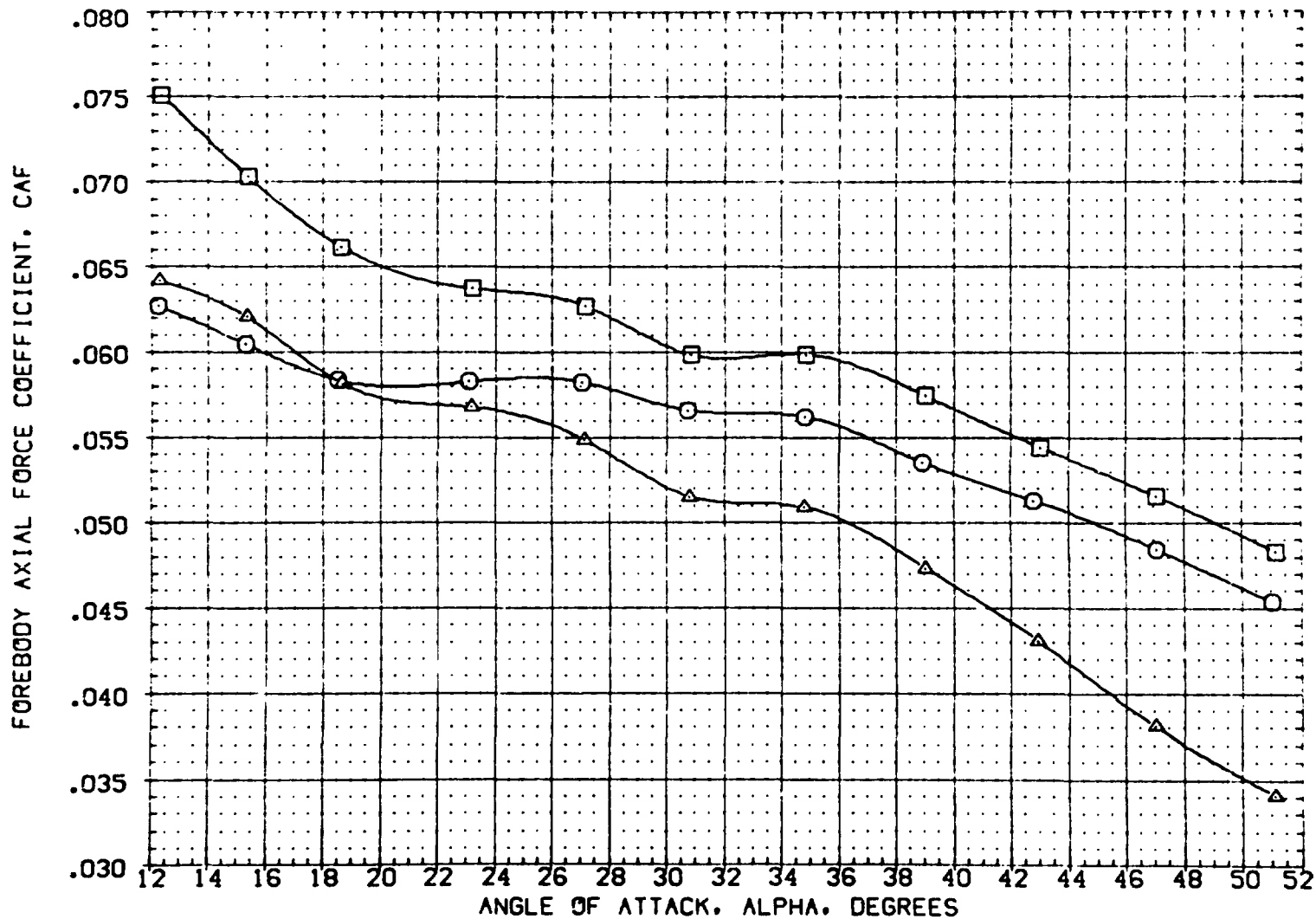


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B96012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(B96018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C96019)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C96020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C96021)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C96013)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

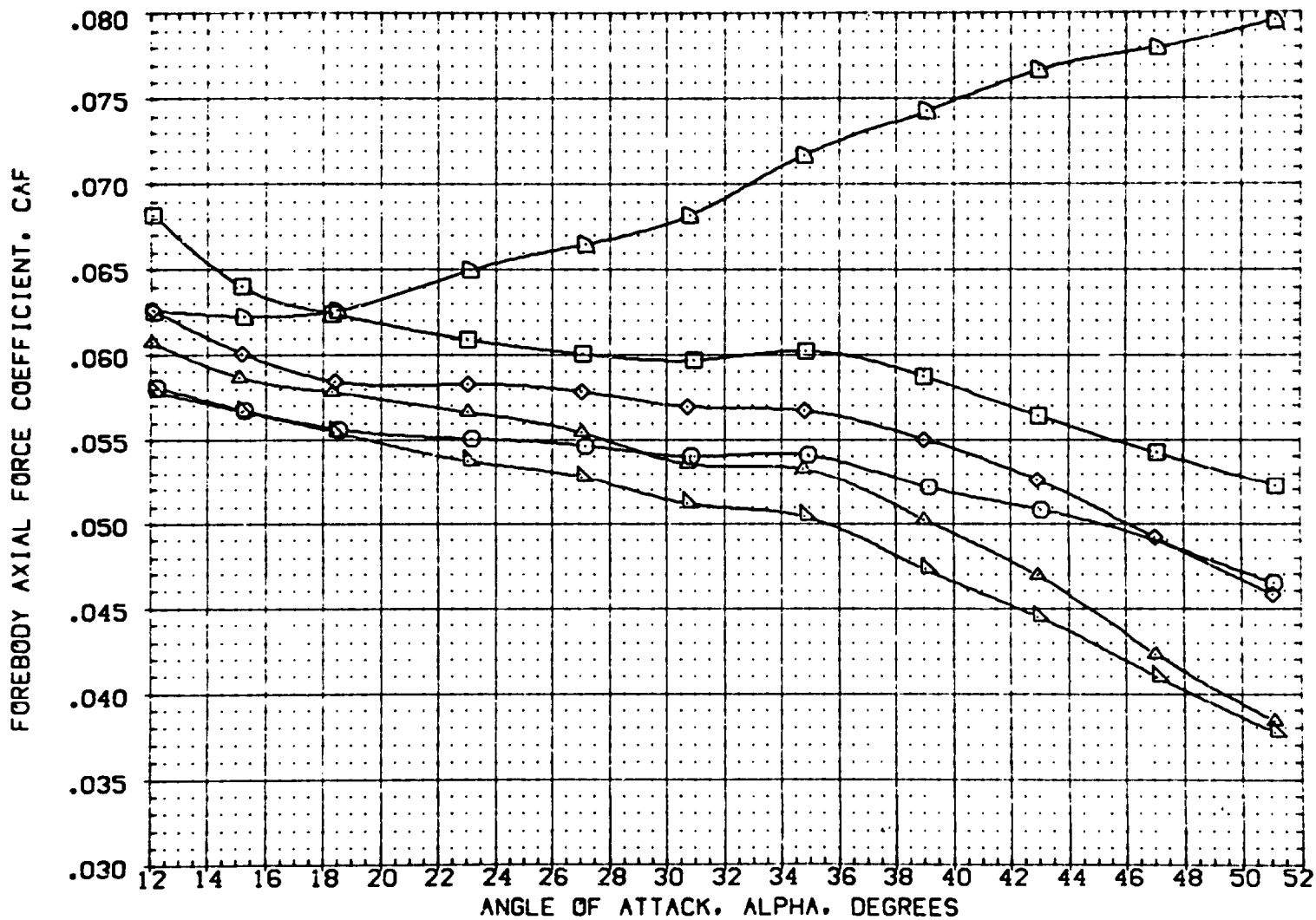


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B6C12)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(B6C18)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.6000 IN.
(B6C19)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B6C20)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	YMRP 1076.4800 IN.
(B6C21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(B6C13)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

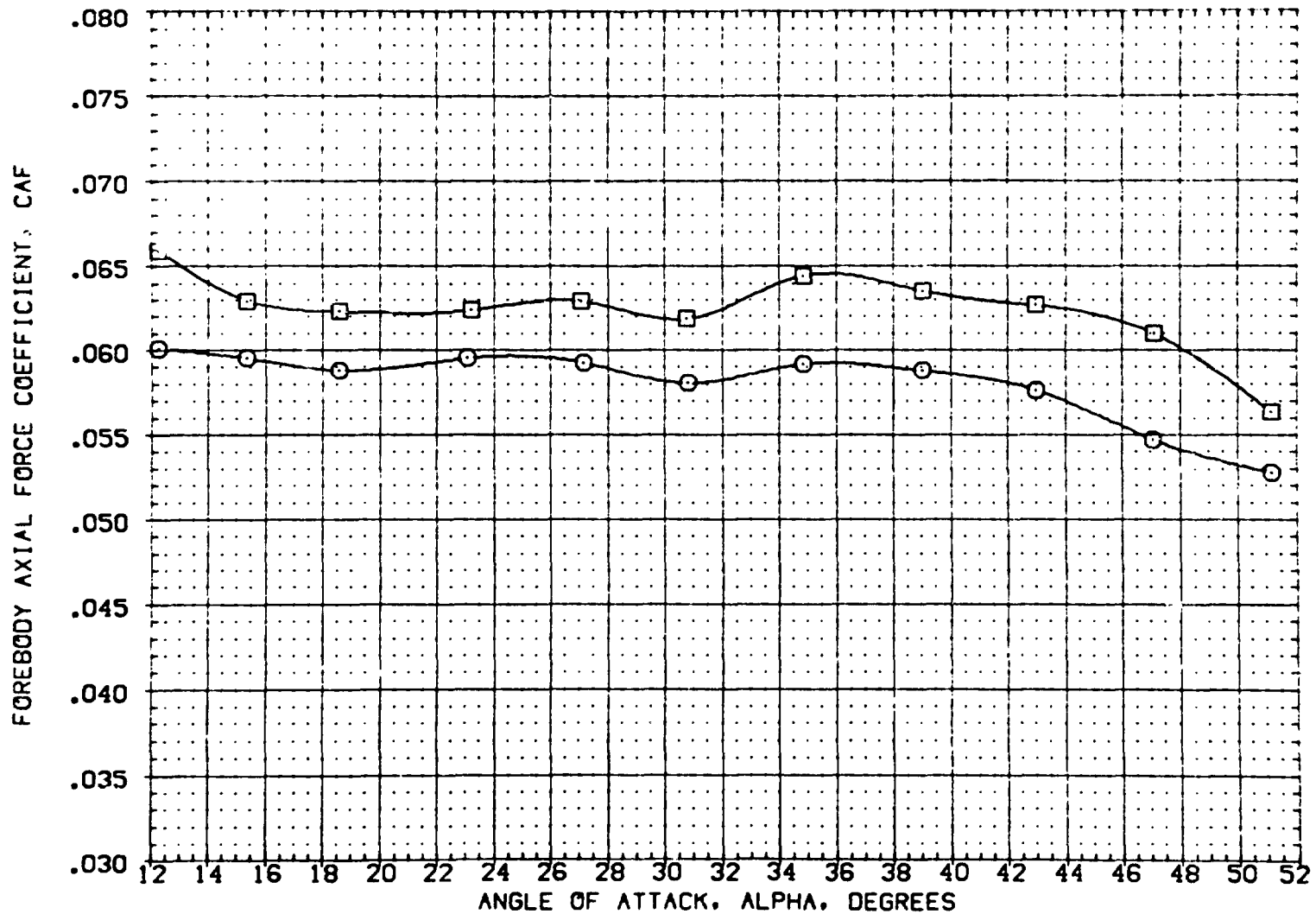


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2630.0000 SQ.FT.
(886018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(886019)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(886020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(886021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(886023)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

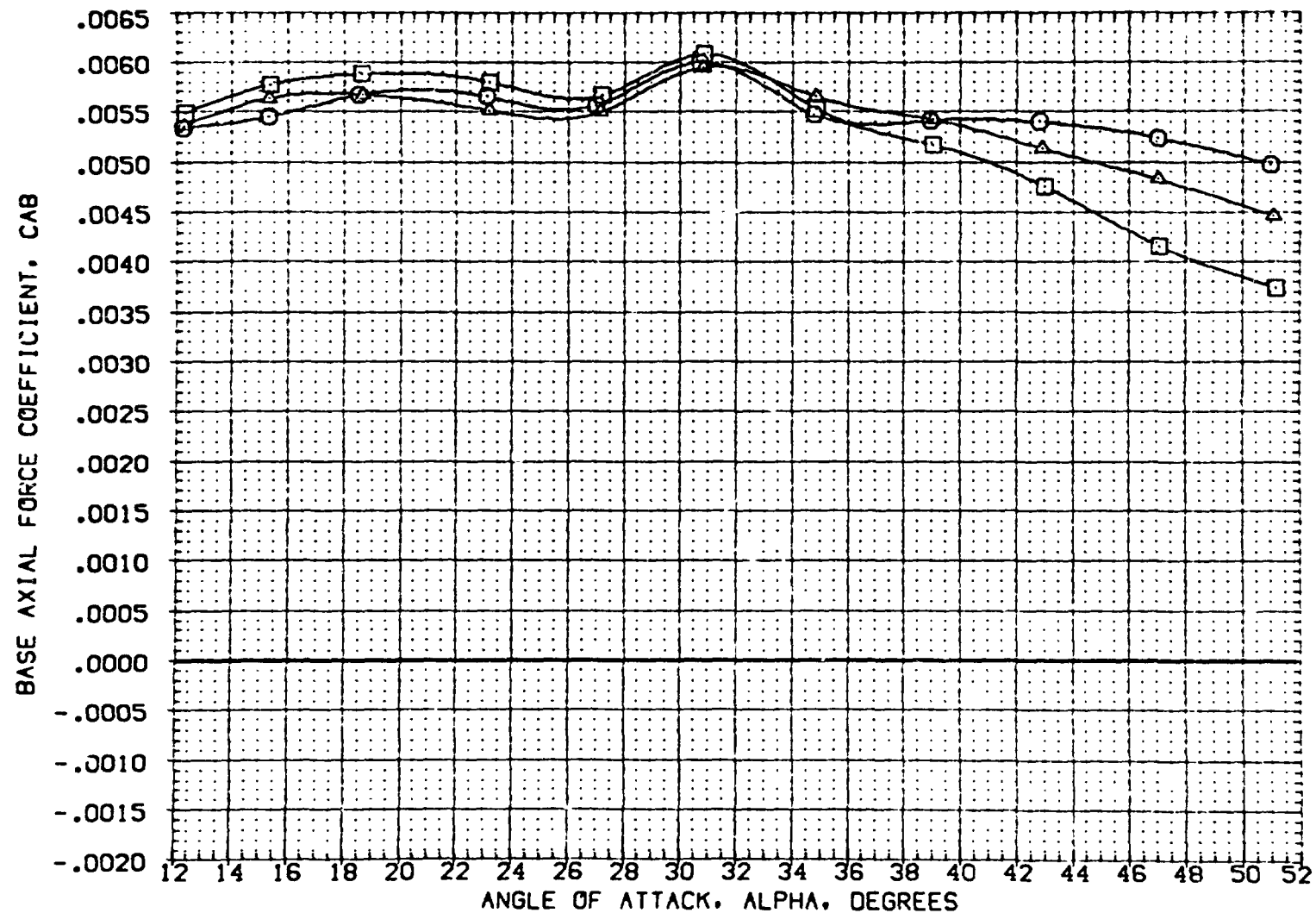


FIG. 7 ELEVON EFFECTS
 (A)MACH = 5.26
 139B CONFIGURATION (0.010-SCALE).
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	ZPOBRK	RUDDER	REFERENCE INFORMATION
(8860:12)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(8860:8)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(8860:9)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	-30.000	-14.250	55.000	.000	BREF 936.6900 IN.
(8860:10)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(8860:11)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(8860:13)	AMES3.5-168 OA23 819 07 E23 F5 M4 26 28 30 32 34 36 38 40 42 44 46 48 50 52	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

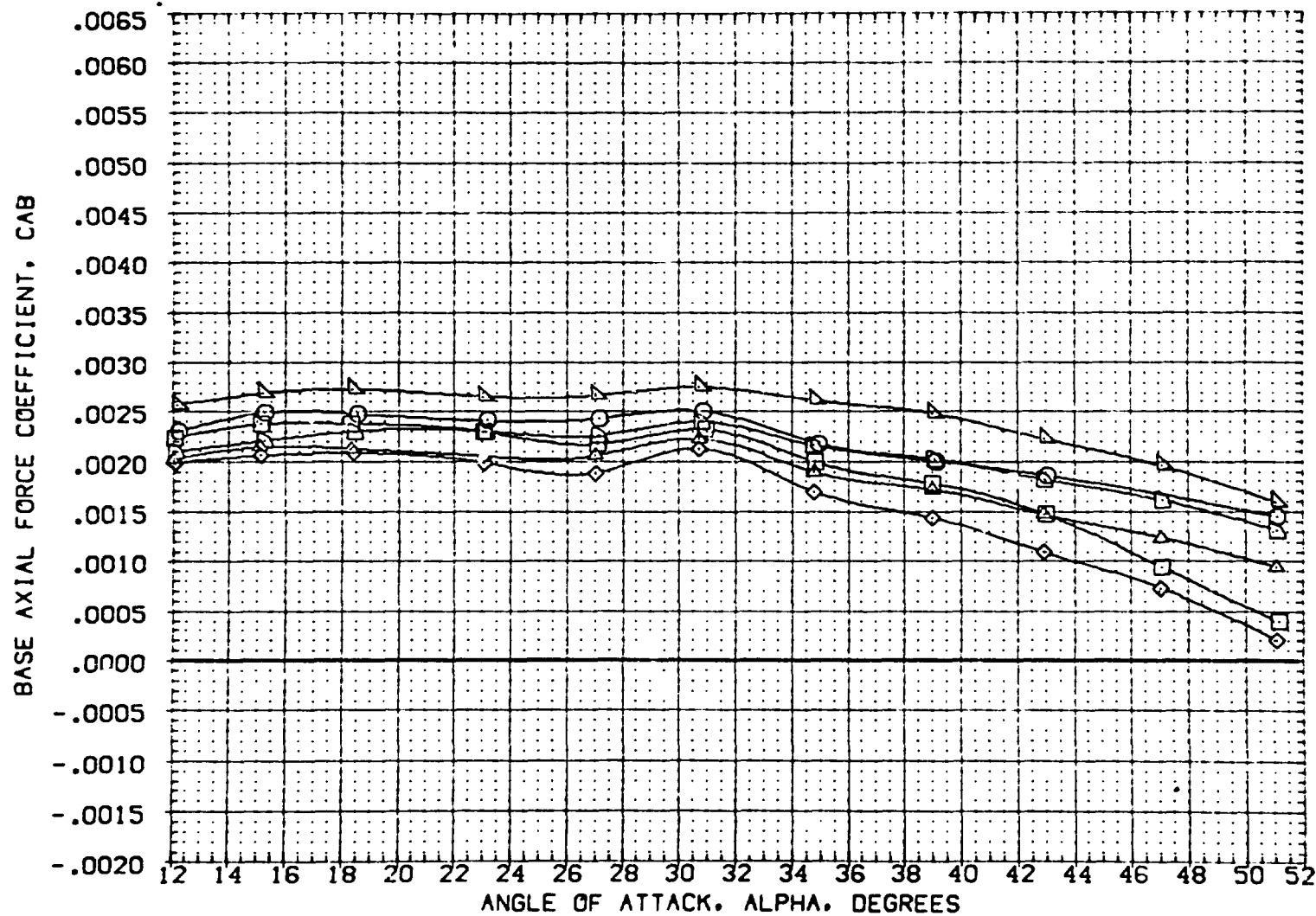


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(896012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(896018)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(139C019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(139C020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.1800 IN.
(139C021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(139C03)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100

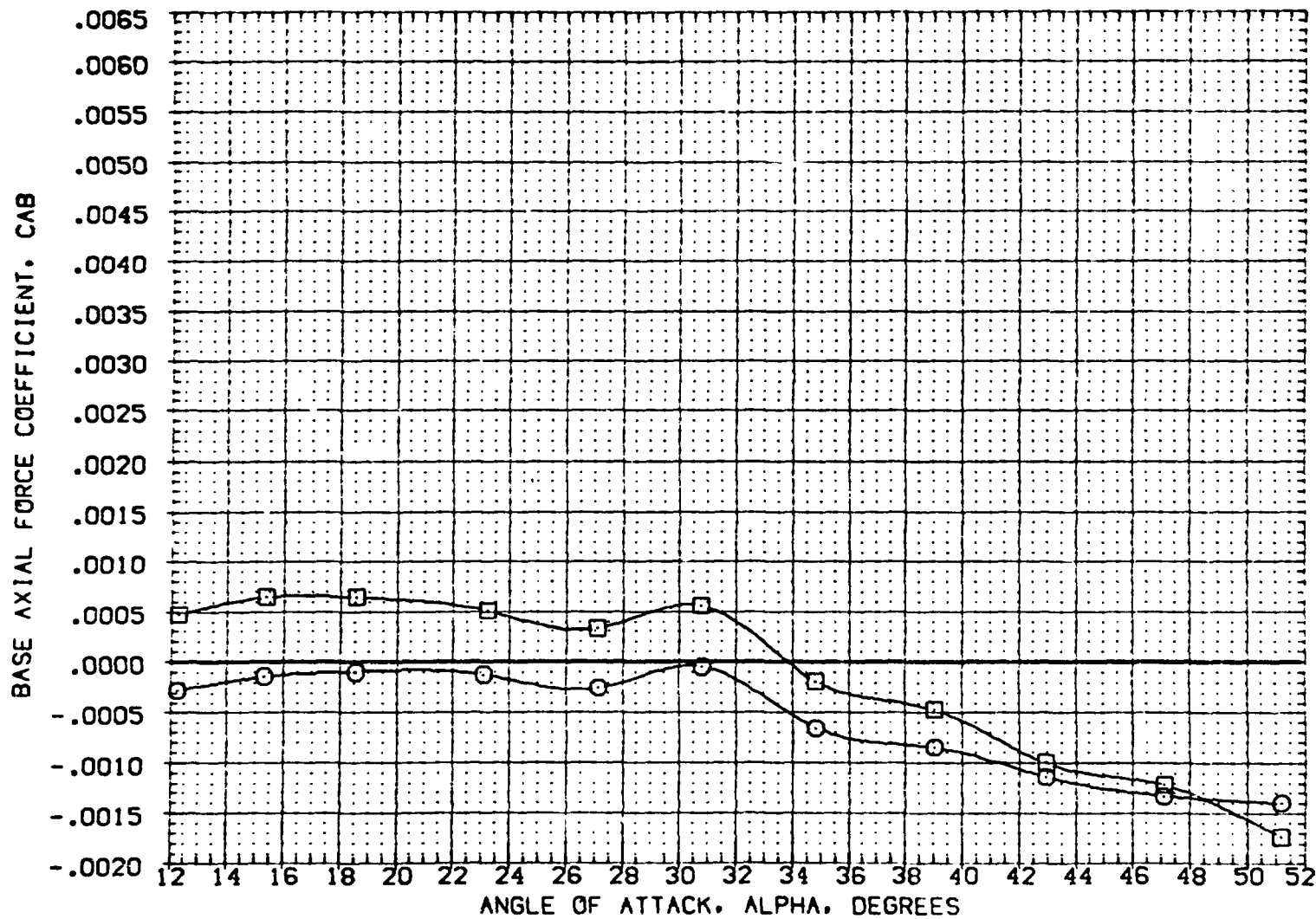


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
0360:2)	D10041	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
0360:08)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
0360:10)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
0360:20)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
0360:21)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
0360:3)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE	

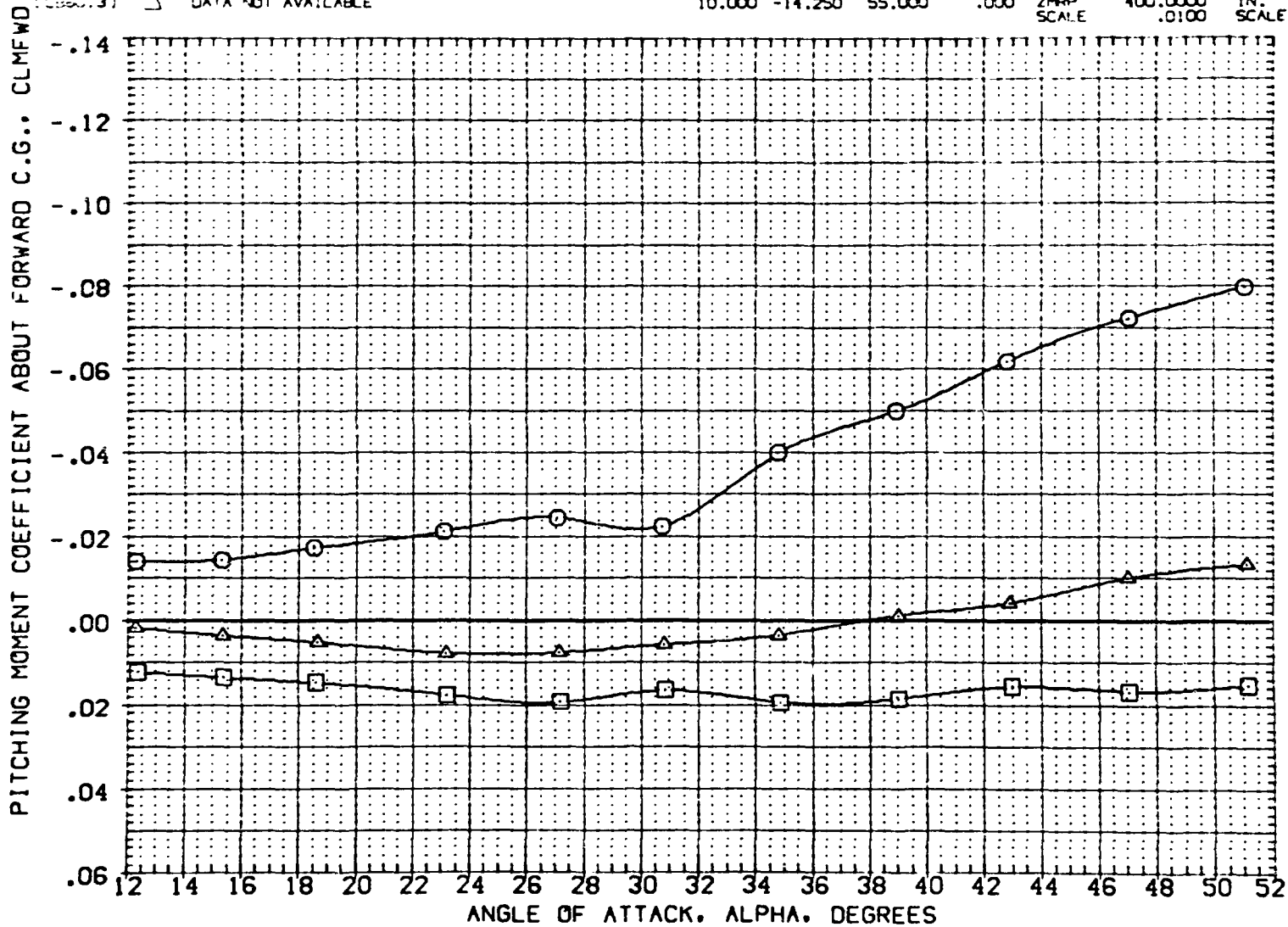


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(096C12)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(096C18)	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(096C19)	□	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(096C20)	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(096C21)	□	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(096C13)	□	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

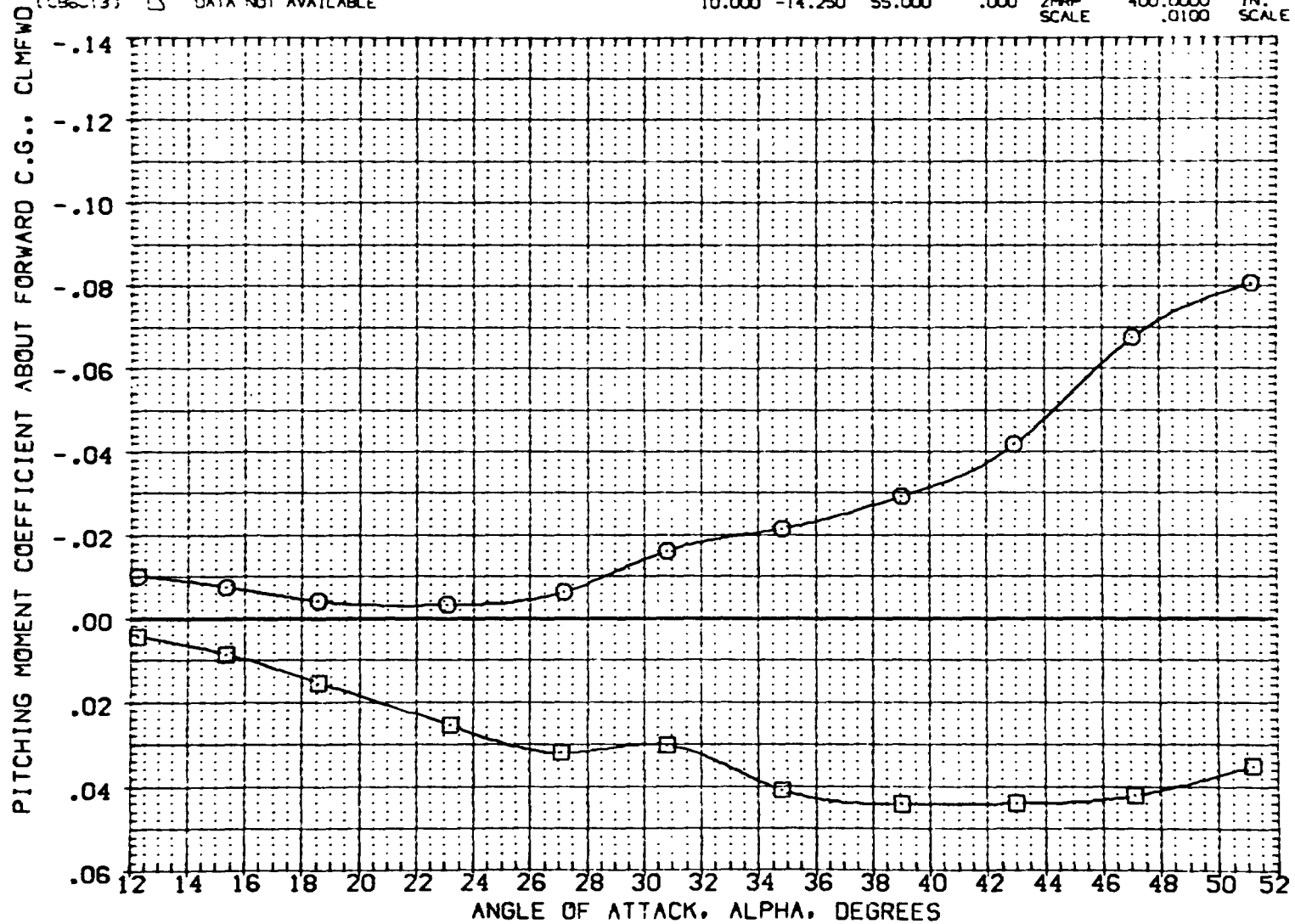


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B36012)	D	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B36018)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C36019)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C36020)		AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	XMRP 1776.4800 IN.
(C36021)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C36023)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

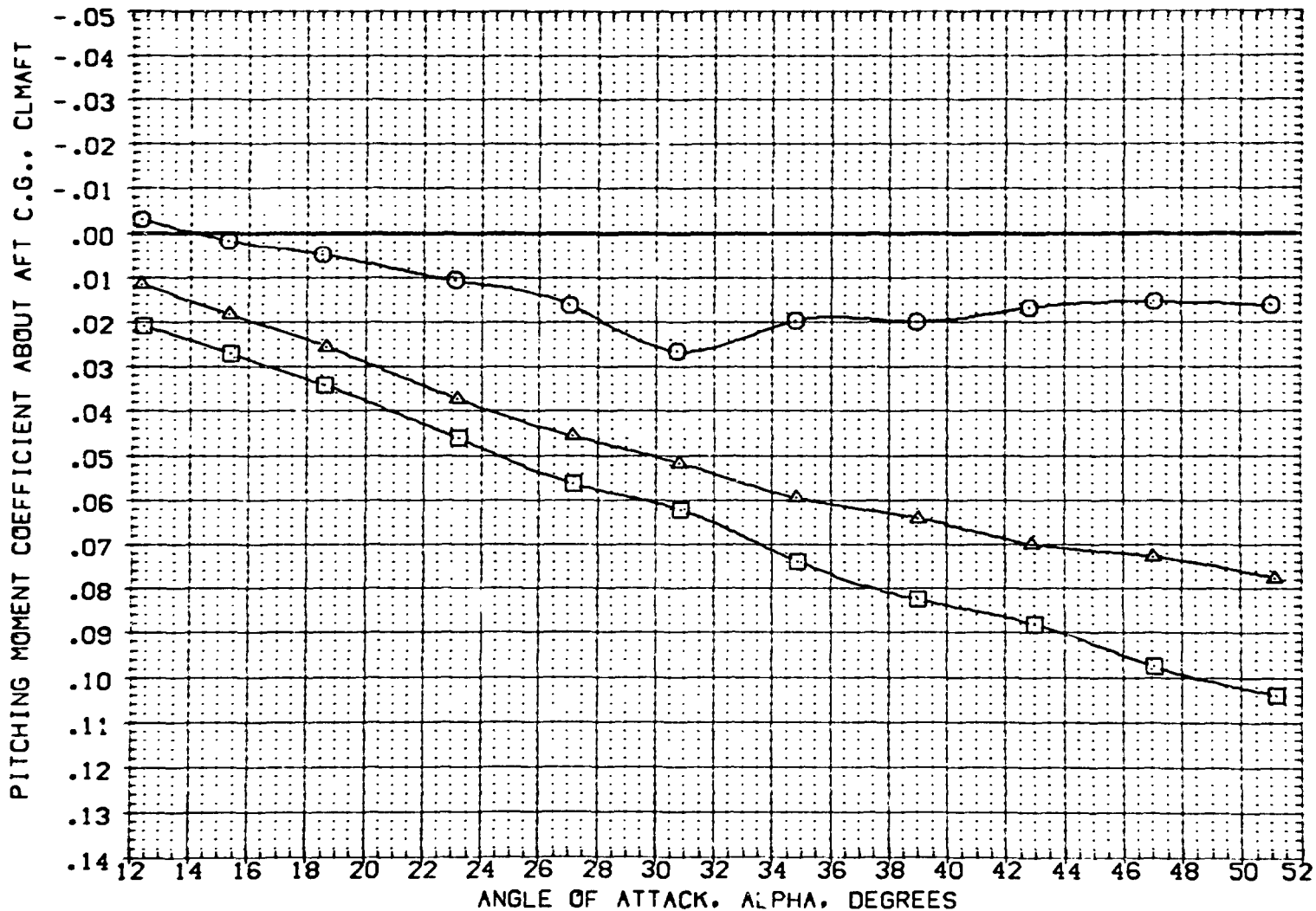


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
0930:2	□	MES3.5-168 OA23 919 C7 E23 F5 M4 M6 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
0930:8	○	AMES3.5-168 OA23 919 C7 E23 F5 M4 M6 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
0930:9	△	AMES3.5-168 CA23 919 C7 E23 F5 M4 M6 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
0930:0	◇	AMES3.5-168 CA23 919 C7 E23 F5 M4 M6 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
0930:1	◇	AMES3.5-168 OA23 919 C7 E23 F5 M4 M6 R5 V7 V107	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
0930:3	□	AMES3.5-168 CA23 919 C7 E23 F5 M4 M6 R5 V7 V107	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

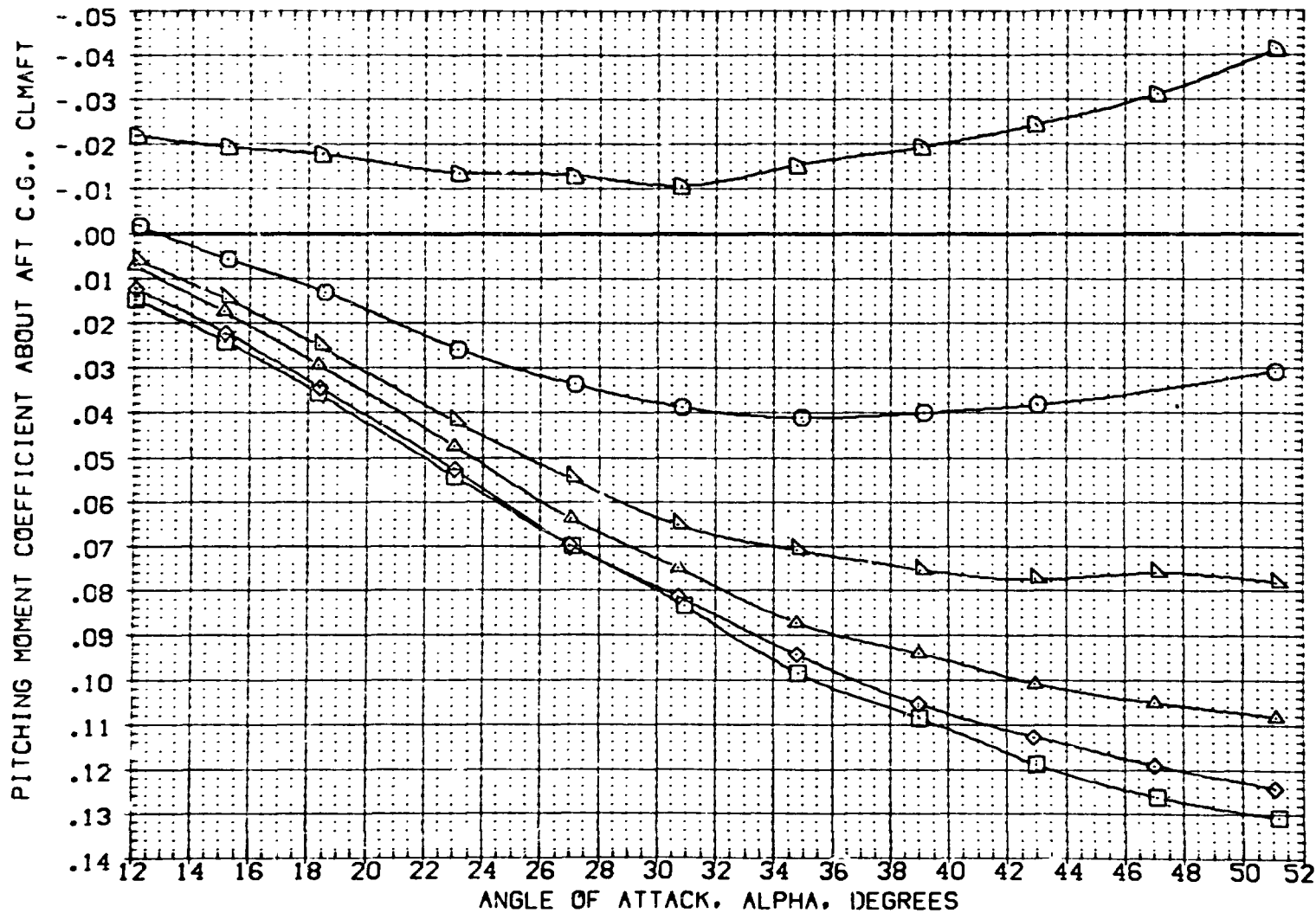


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BCFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(886012)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(886018)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	ZMRP .0000 IN.
(C86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	SCALE 400.0000 IN. SCALE .0100 SCALE

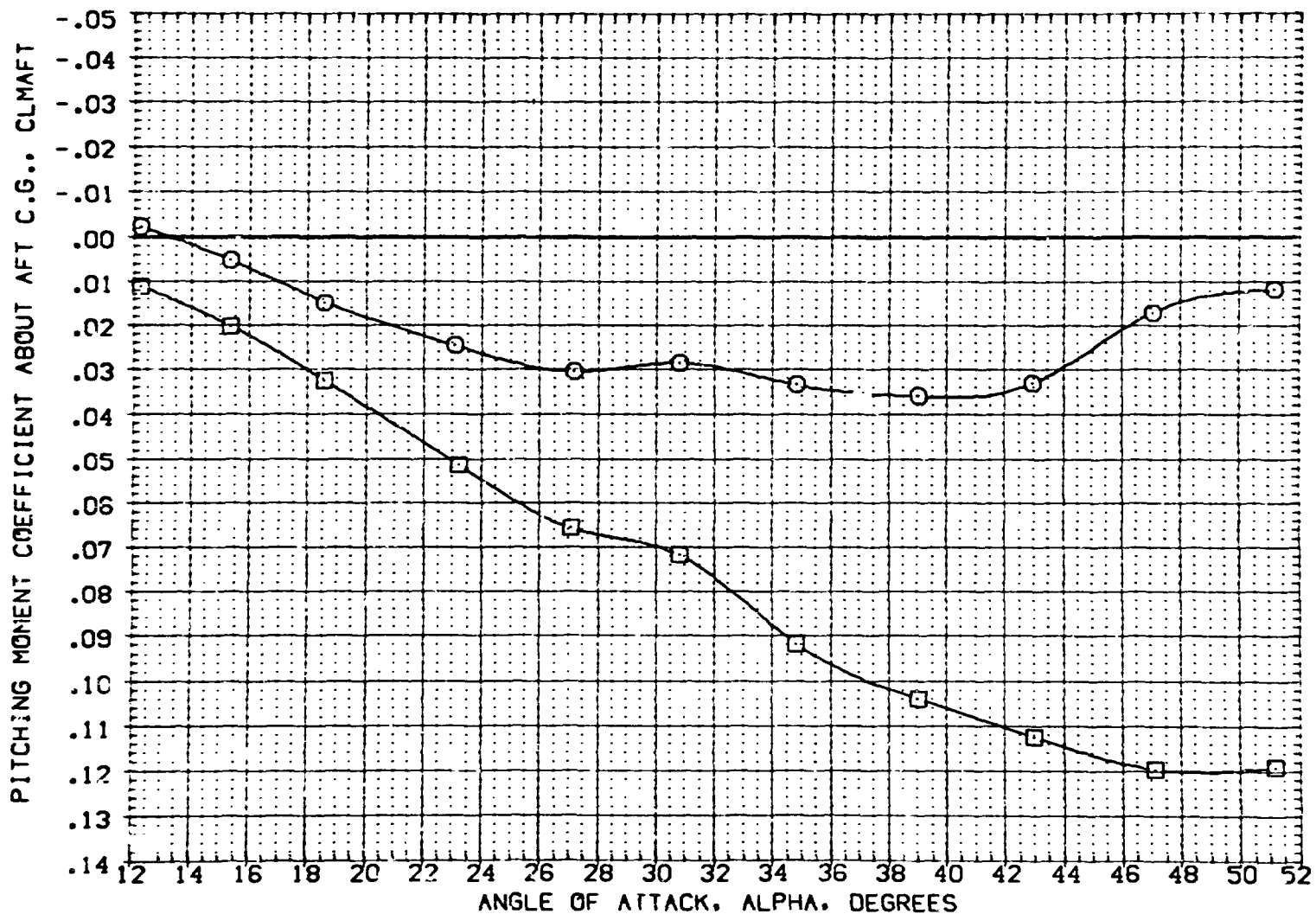


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
0860:2)	OX44	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
0860:8)		AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
0860:9)		DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
0860:20)		AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
0860:21)		DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
0860:3)		DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

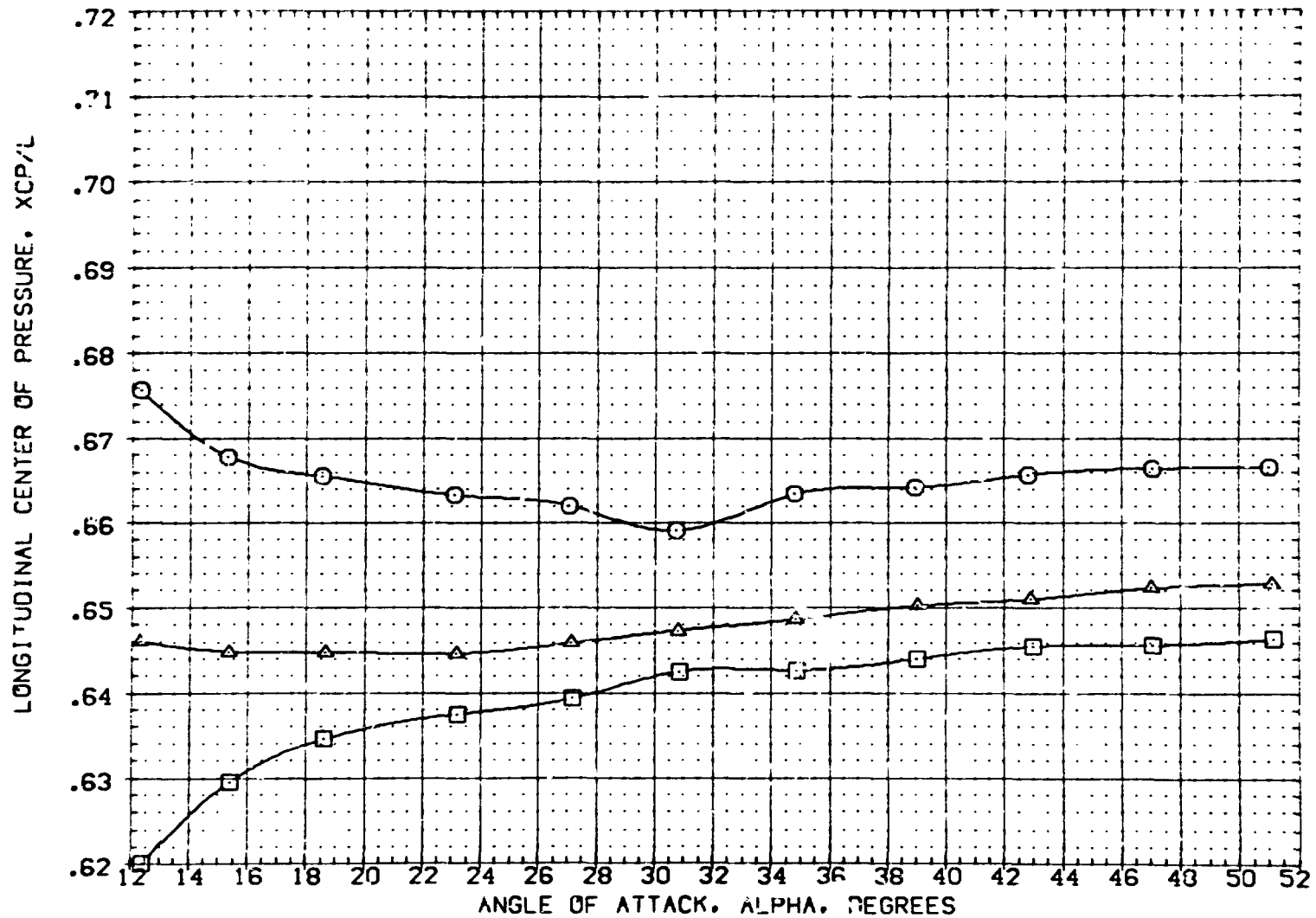


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOON	RUDDER	REFERENCE INFORMATION
000000	000000	000000	000000	000000	000000	000000	SCALE 1 2690.0000 SQ.FT.
000000	000000	000000	000000	000000	000000	000000	LREF 474.8000 IN.
000000	000000	000000	000000	000000	000000	000000	BREF 936.6800 IN.
000000	000000	000000	000000	000000	000000	000000	XMRP 1076.4800 IN.
000000	000000	000000	000000	000000	000000	000000	YMRP .0000 IN.
000000	000000	000000	000000	000000	000000	000000	ZMRP 400.0000 IN.
000000	000000	000000	000000	000000	000000	000000	SCALE .0100 SCALE

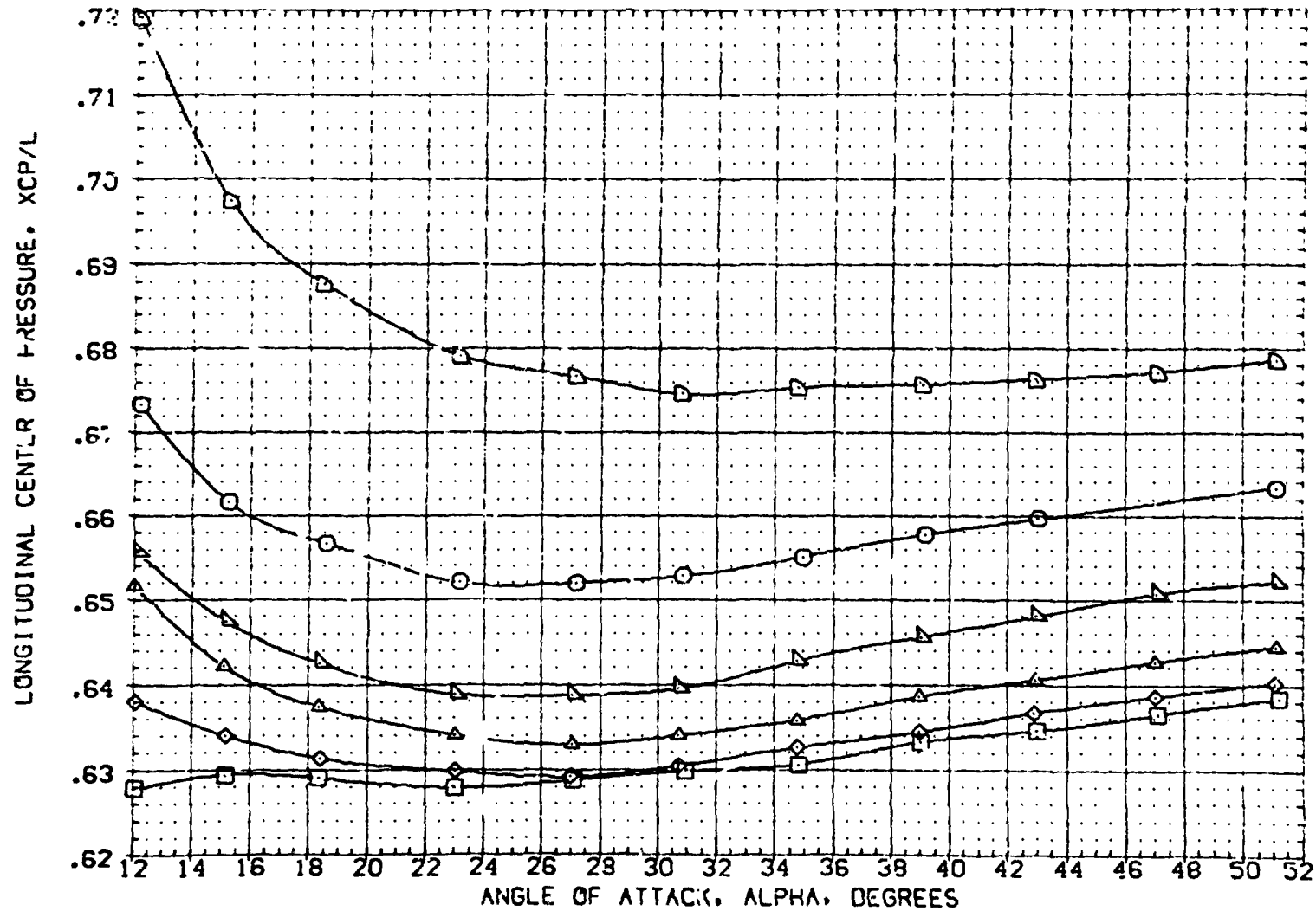


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(0360:2)	○	AMES3.5-168 0.23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(0360:8)	○	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(0360:9)	○	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(0360:20)	○	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(0360:21)	○	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(0360:3)	□	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

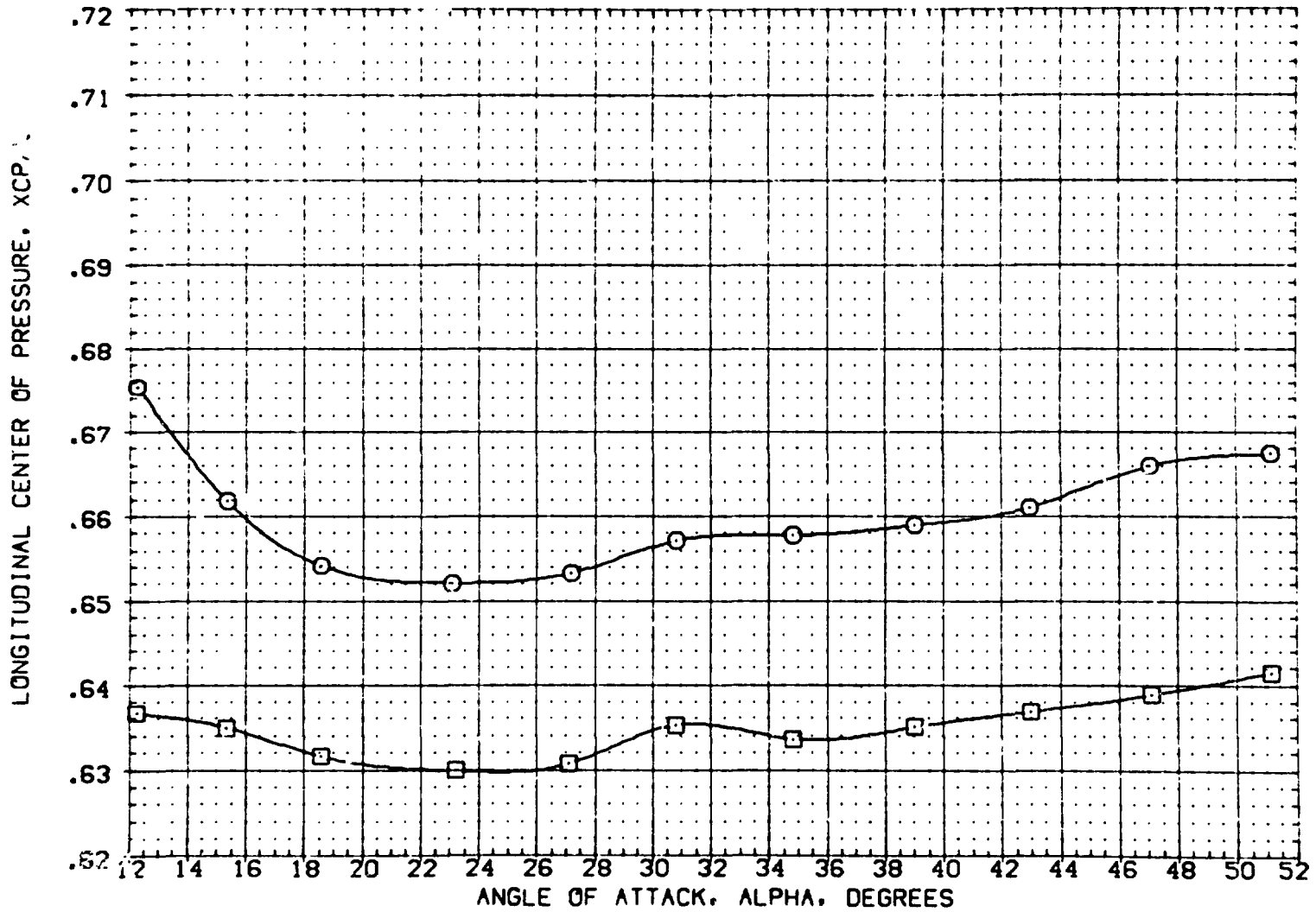


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MARCH = 10.29

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
{986012}	○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
{936018}	□	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
{936019}	×	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
{866020}	△	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.1800 IN.
{870021}	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
{866013}	◇	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

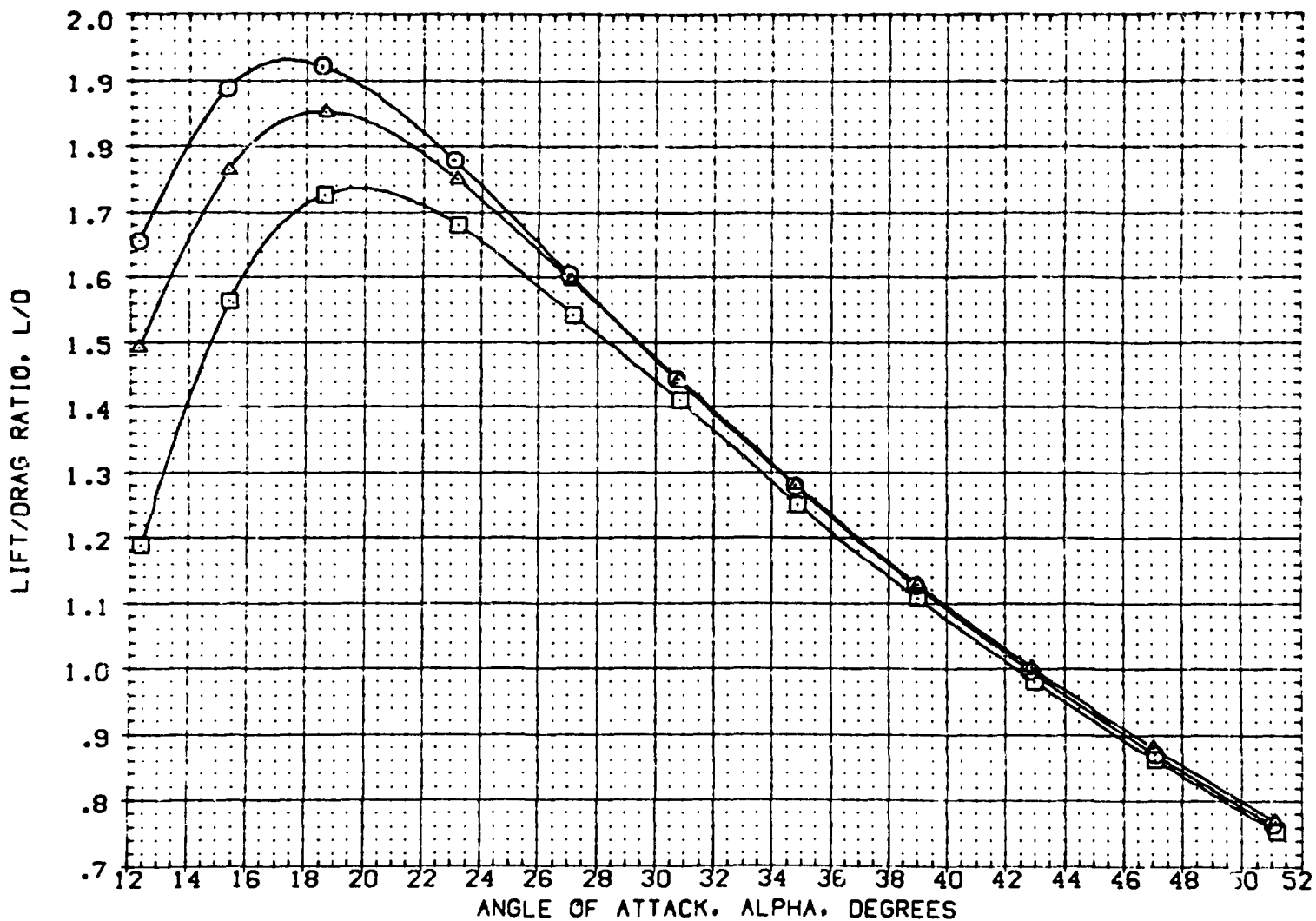


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	LREF 474.8000 IN.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	BREF 936.6800 IN.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	XMRP 1076.4800 IN.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	YMRP 400.0000 IN.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	ZMRP 400.0000 IN.
09900000	AMES3.5-168 OA23 819	000000	-14.250	55.000	.000	SCALE .0100 SCALE

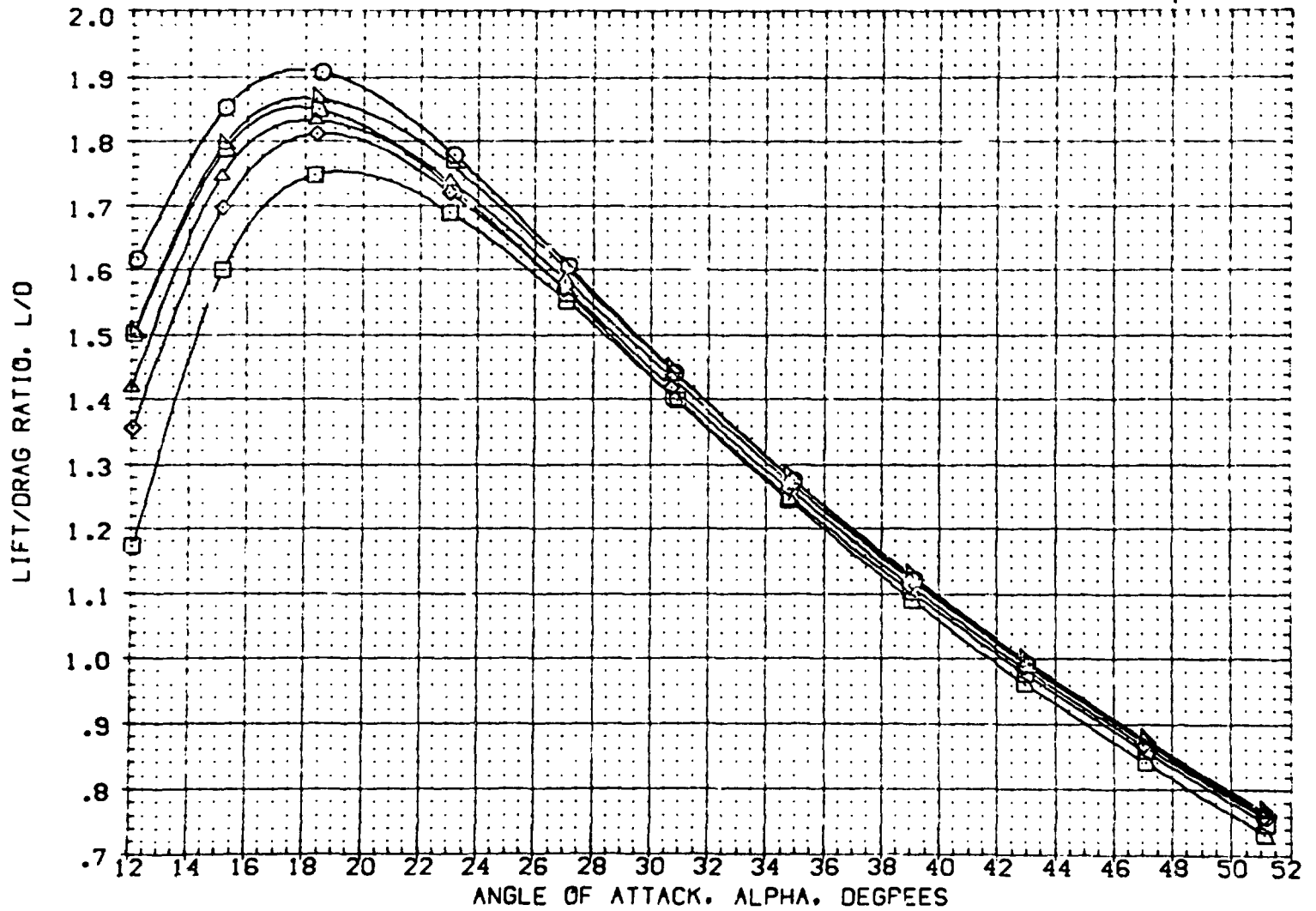


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOILER	RUDDER	REFERENCE INFORMATION
(9860:12)	AMES3.5-169 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(9860:8)	AMES3.5-169 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
(9860:9)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(9860:20)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(9860:21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(9860:3)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0100 SCALE

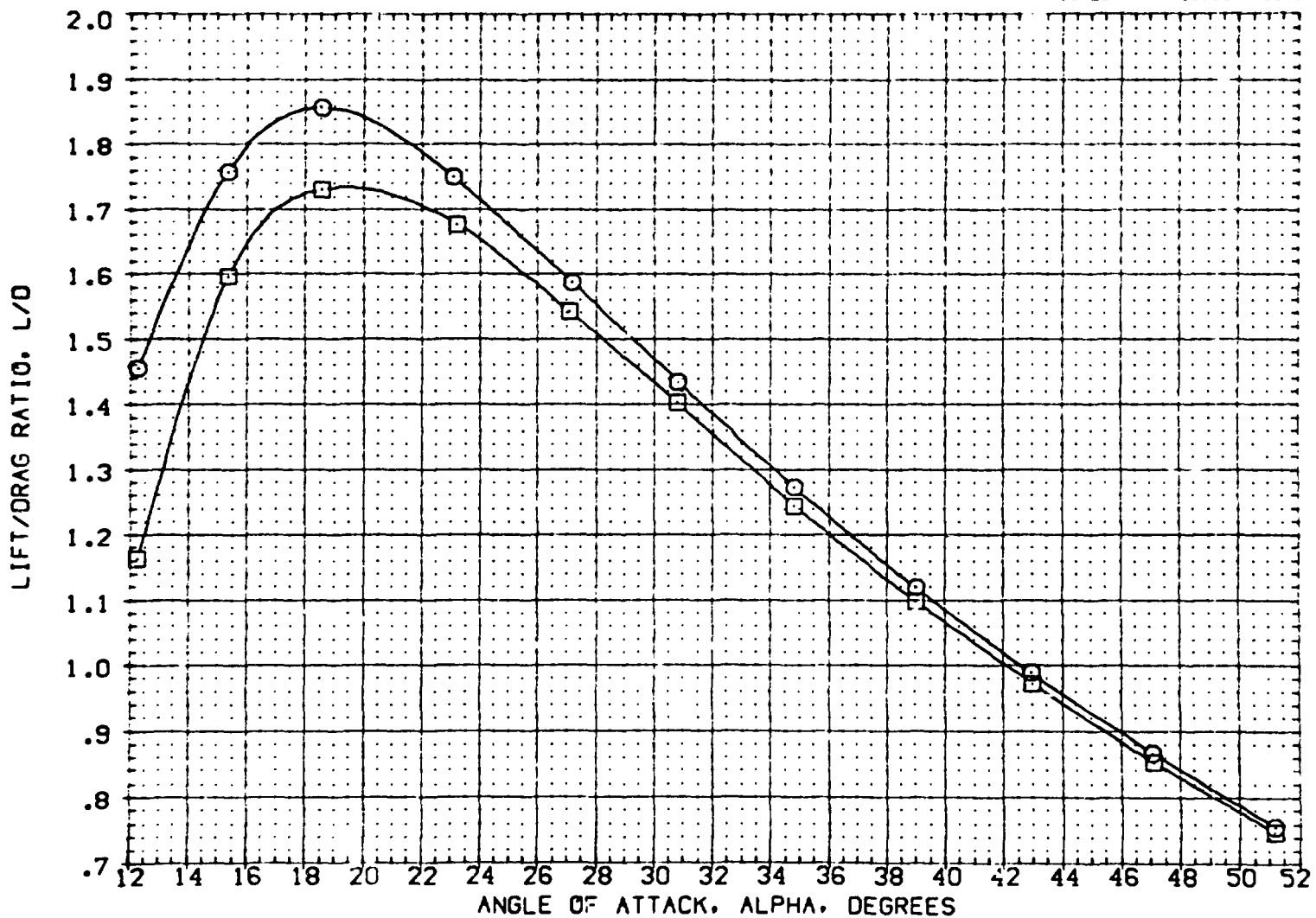


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B96012)	AMES3.5-68 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B96018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B96019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(B96020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(B96021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(B96013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

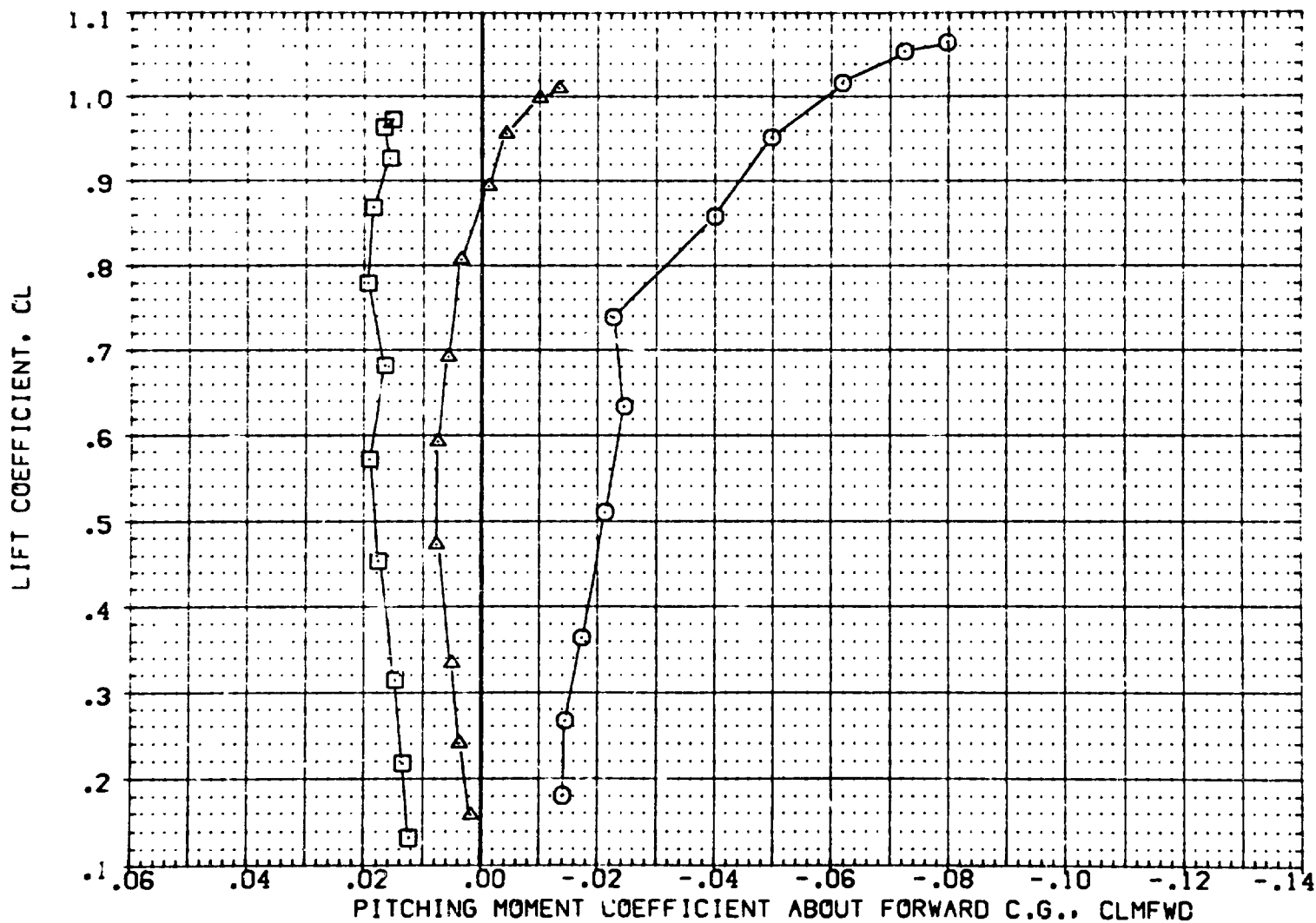


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A) MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(089601.2)	□	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(089601.9)	△	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	LREF 474.8000 IN.
(089601.6)	◇	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	BREF 936.6800 IN.
(089601.3)	○	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(089601.0)	△	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	YMRP .0000 IN.
(089601.7)	□	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
(089601.4)	△	AM53.5-168 OA23 B19 LDDDDLL	0.000	-14.250	55.000	.000	SCALE .0100 SCALE

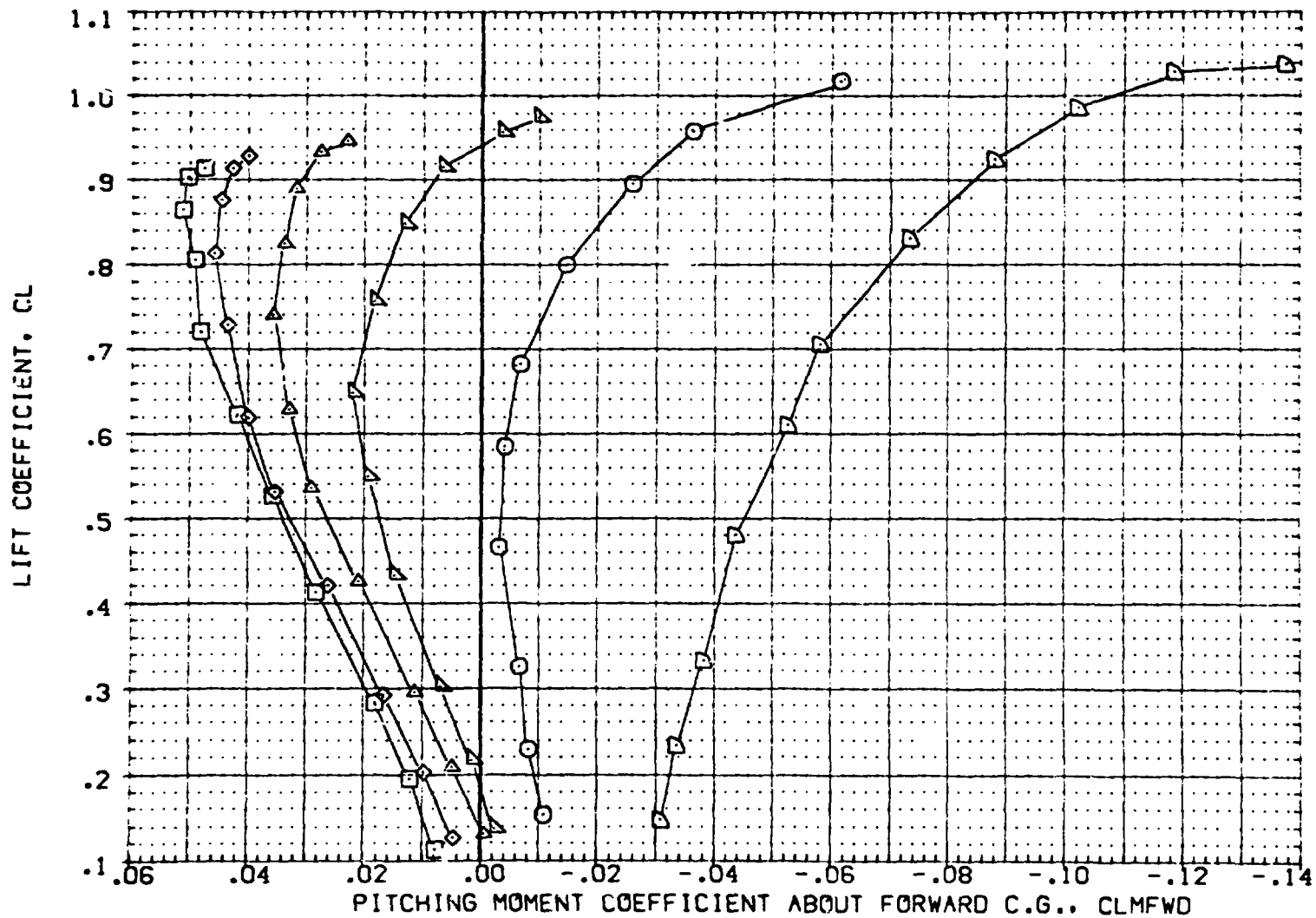


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
08960:2	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	0.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
08960:8	□	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
08960:9	□	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
08960:5	□	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
08960:1	□	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
08960:3	□	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 100.0000 IN.
							SCALE .0100 SCALE

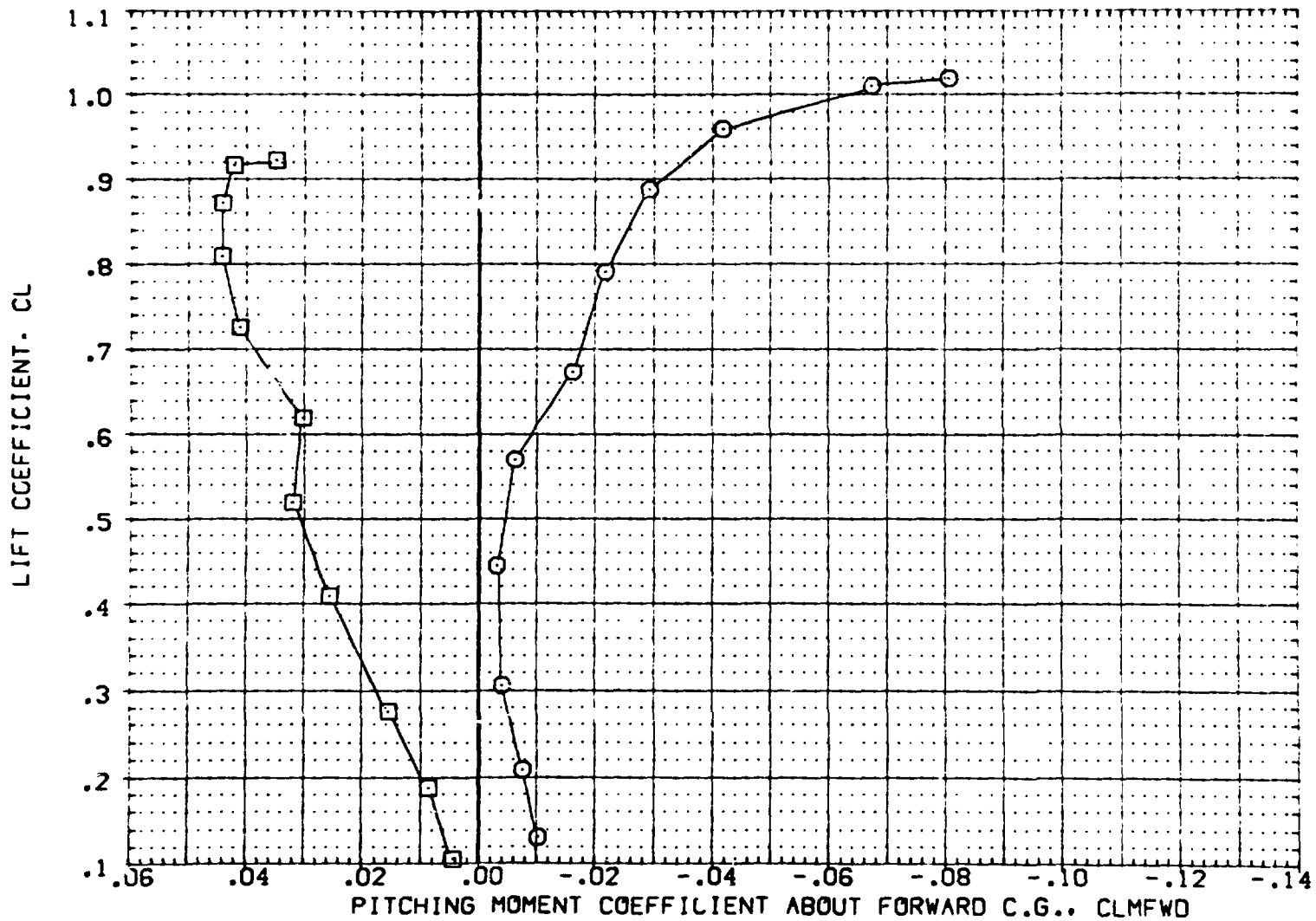


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.29

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(896012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(896018)	AMES3.5-166 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(896019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BRFF 936.6800 IN.
(896020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(896021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(896013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

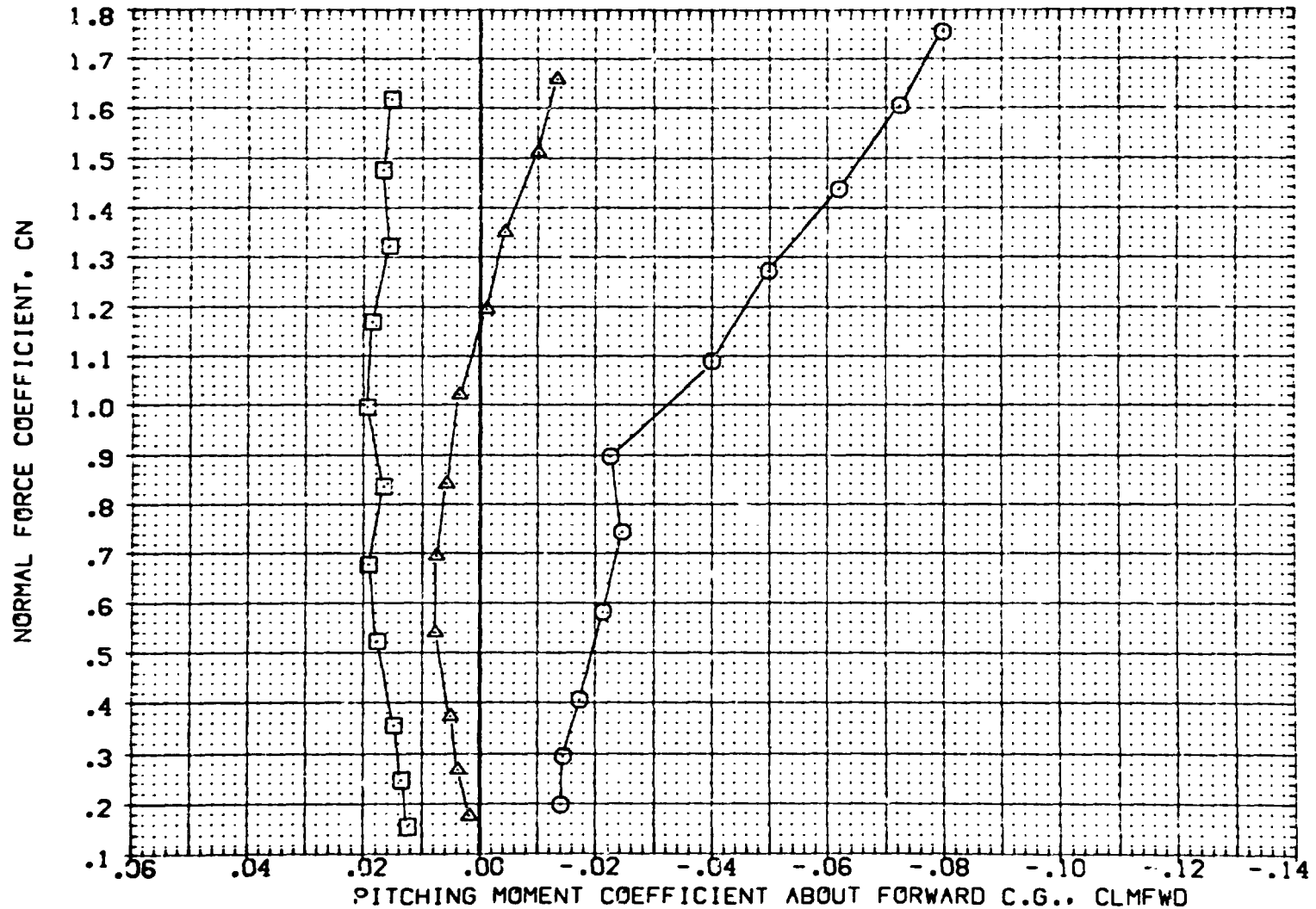


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(8650:2)	□	AMES3.5-168 OA23 B19 L7 E23 F5	10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(8650:18)		AMES3.5-168 OA23 B19 L7 E23 F5	-10.000	-14.250	55.000	.000	LREF 474.8000 IN.
(10860:18)		AMES3.5-168 OA23 B19 L7 E23 F5	-10.000	-14.250	55.000	.000	BREF 936.6800 IN.
(10860:20)		AMES3.5-168 OA23 B19 L7 E23 F5	10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(10860:21)		AMES3.5-168 OA23 B19 L7 E23 F5	10.000	-14.250	55.000	.000	YMRP .0000 IN.
(8650:3)	□	AMES3.5-168 OA23 B19 L7 E23 F5	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

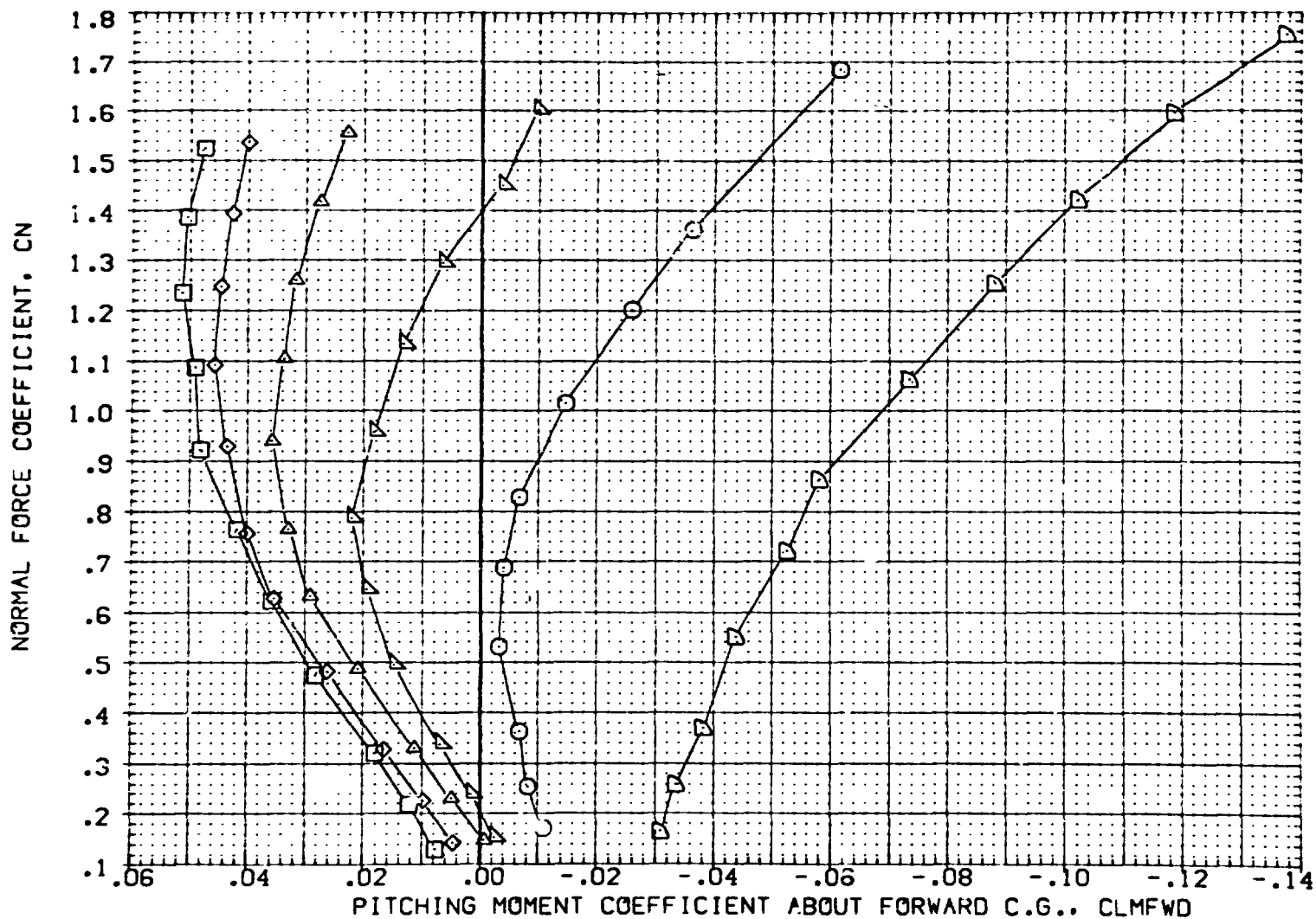


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(B96012)	□	AMES3.5-168 GA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B96018)	○	AMES3.5-168 GA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(CB6019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(CB6020)	△	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(CB6021)	▽	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(CB6017)	◇	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
							SCALE .0100 SCALE

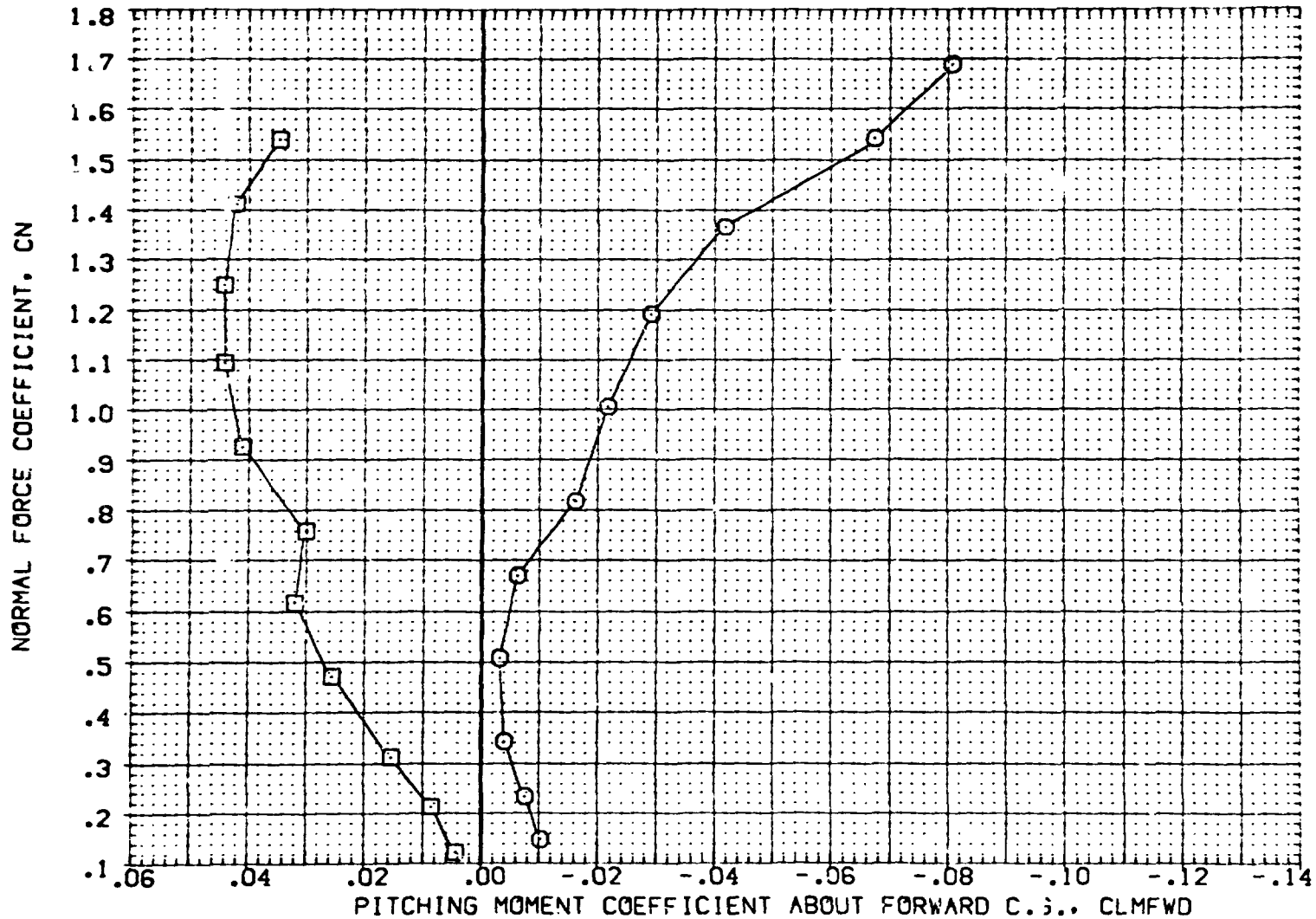


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)MACH = 10.29

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPCRK	RUDDER	REFERENCE INFORMATION
(B960:2)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N2 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B960:8)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(C960:9)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(C960:20)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(C960:21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(C960:3)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN. SCALE .0100 SCALE

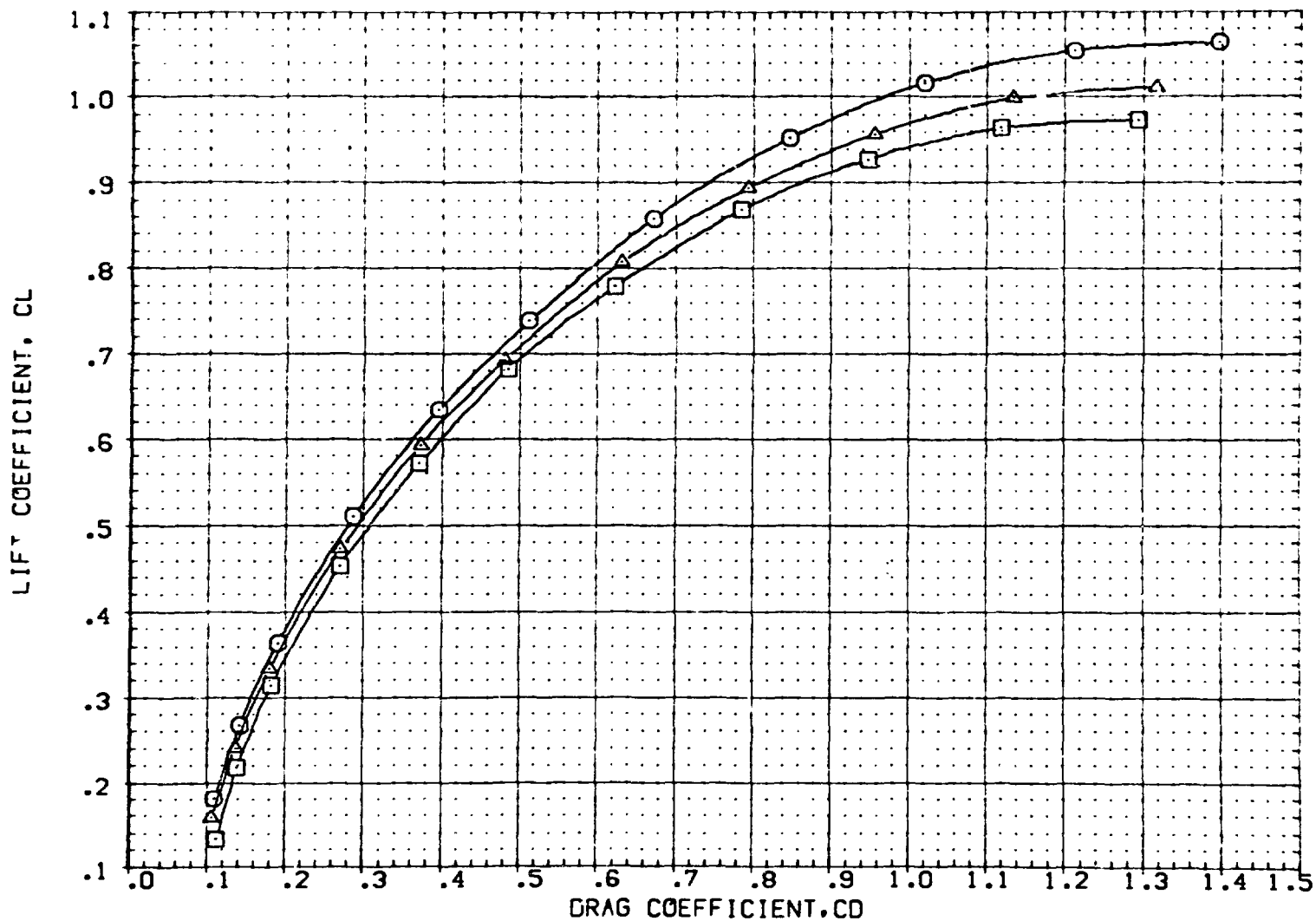


FIG. 7 ELEVON EFFECTS
(A) MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(096012)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	10.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(096016)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-1.000	-14.250	55.000	.000	LREF 474.8000 IN.
(096019)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-2.000	-14.250	55.000	.000	BREF 936.6800 IN.
(096020)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-3.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(096021)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-4.000	-14.250	55.000	.000	YMRP .0000 IN.
(096022)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-5.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
(096023)	AMES3.5-168 GA23 B19 C7 E23 F5 H4 J6 K6 L6 M6 N6 O6 P6 Q6 R6 S6 T6 U6 V107	-6.000	-14.250	55.000	.000	SCALE .0100 SCALE

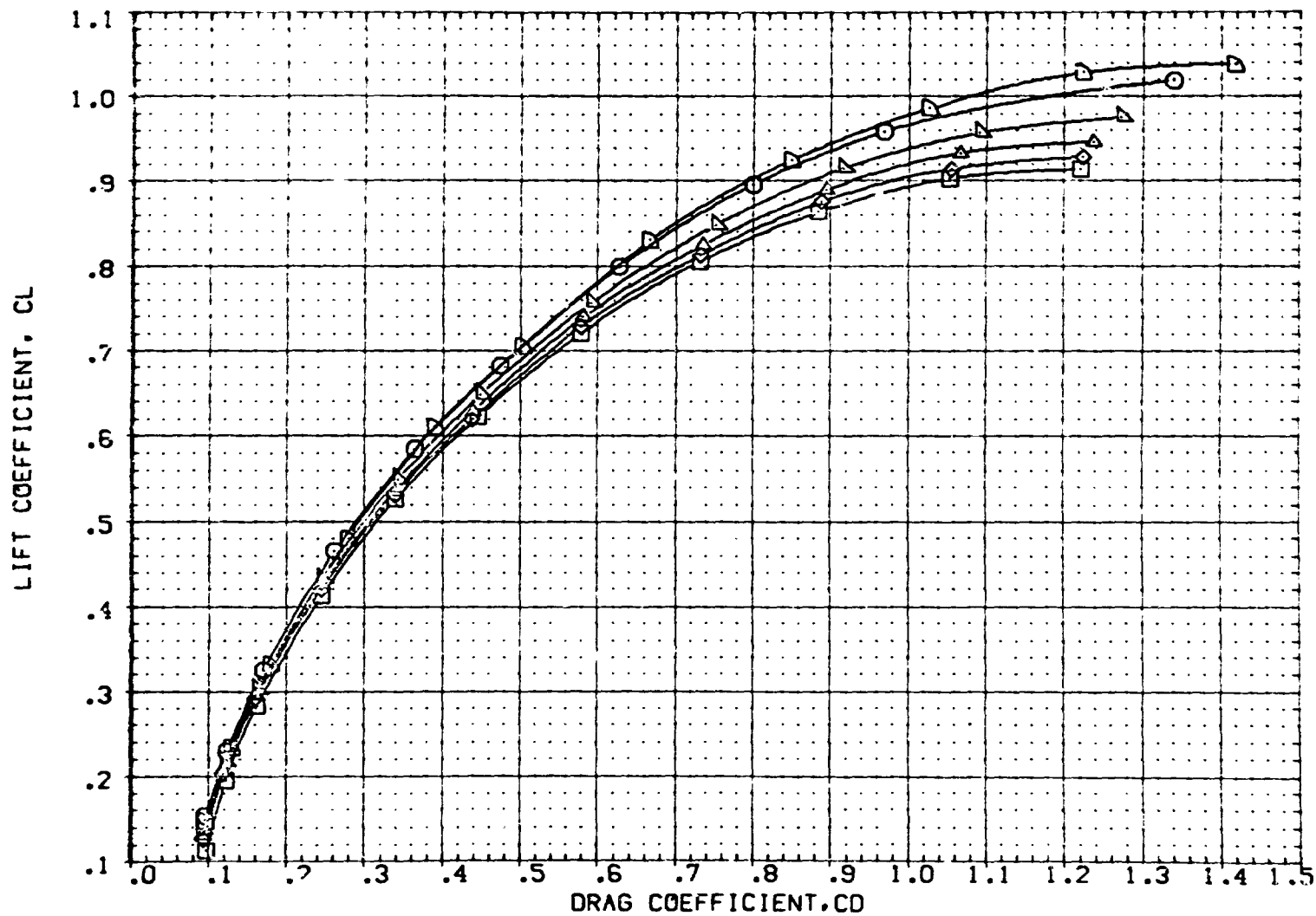


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(8360:2)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(8360:8)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	LREF 474.8000 IN.
(8360:9)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(8360:20)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(8360:21)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	YMRP .0000 IN.
(8360:13)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	ZMRP 400.0000 IN.
						SCALE .0000 SCALE

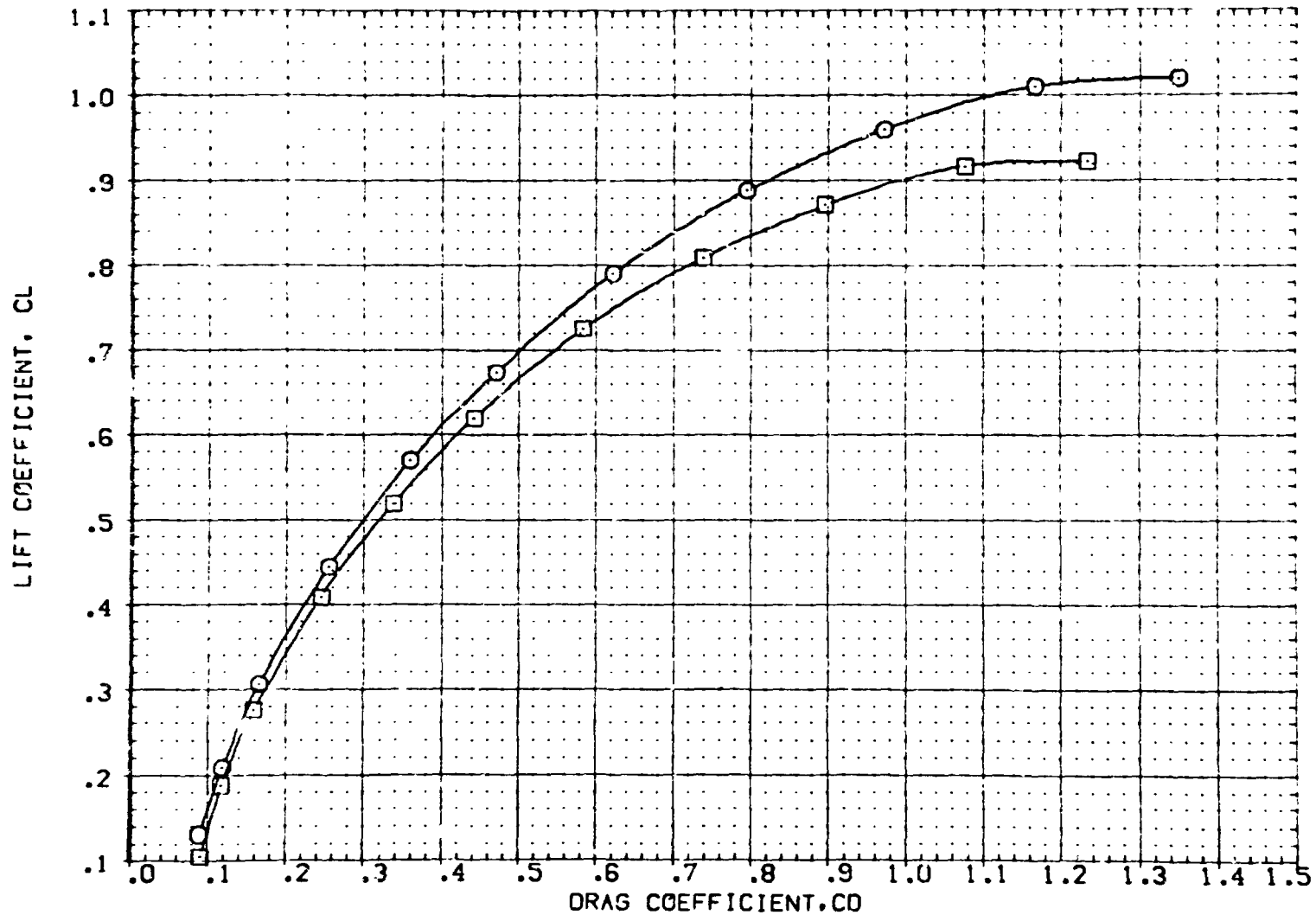


FIG. 7 ELEVON EFFECTS
 139B CONFIGURATION (0.010-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6015)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

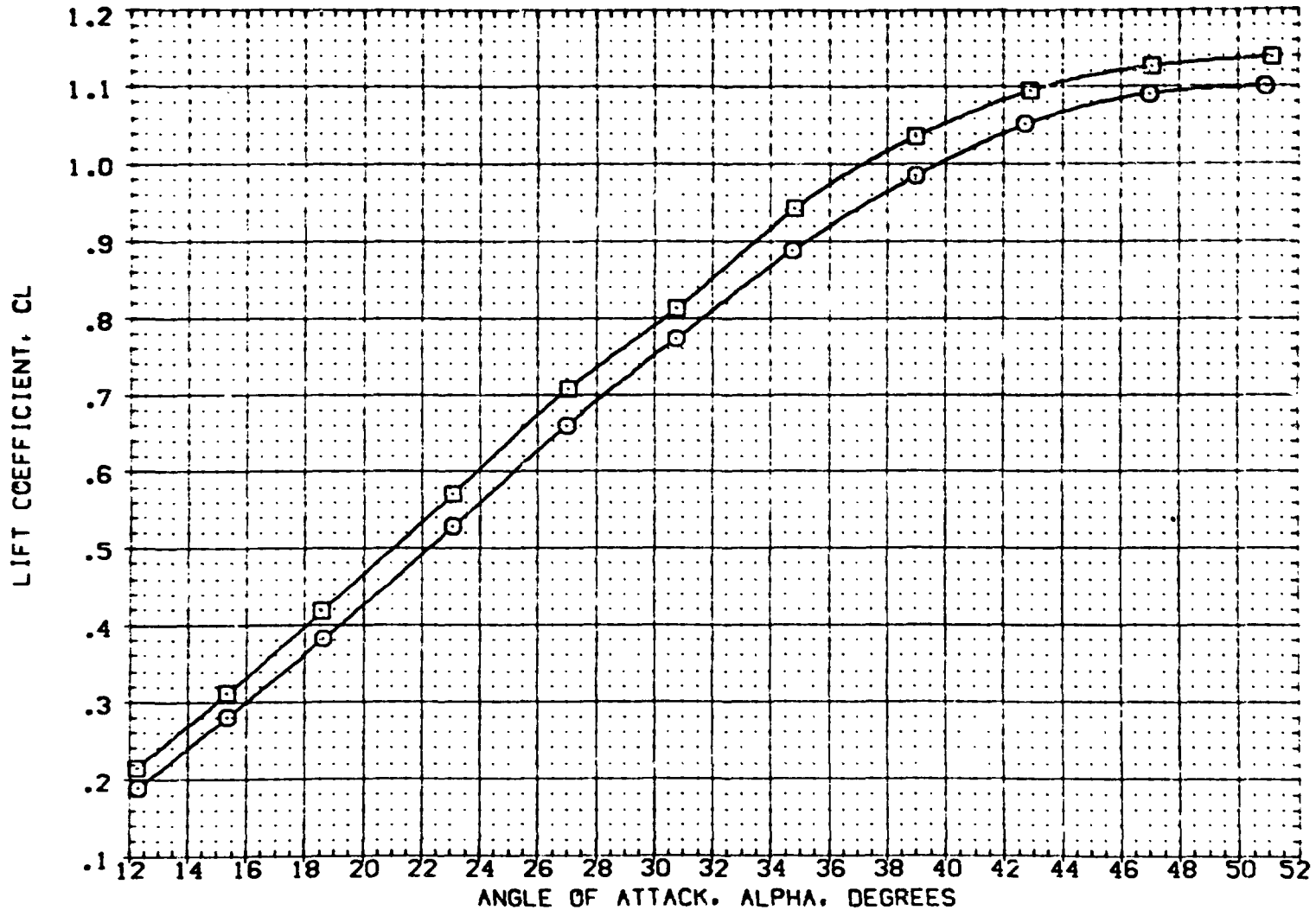


FIG. 7 ELEVON EFFECTS
 (A)MACH = 5.26
 139B CONFIGURATION (0.010-SCALE).
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C950:1)	AMES3.5-168 CA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(C950:5)	AMES3.5-168 CA23 819 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

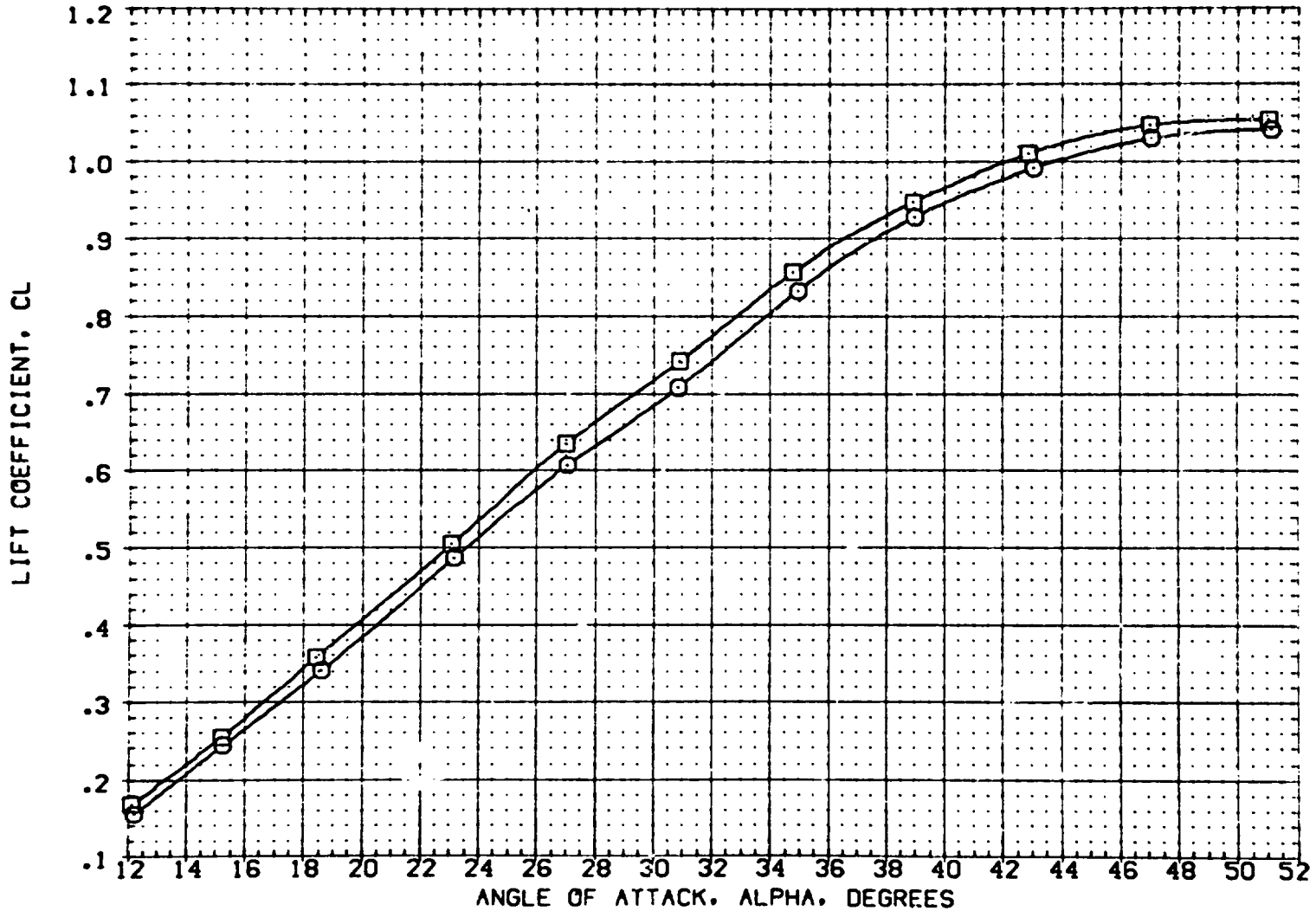


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

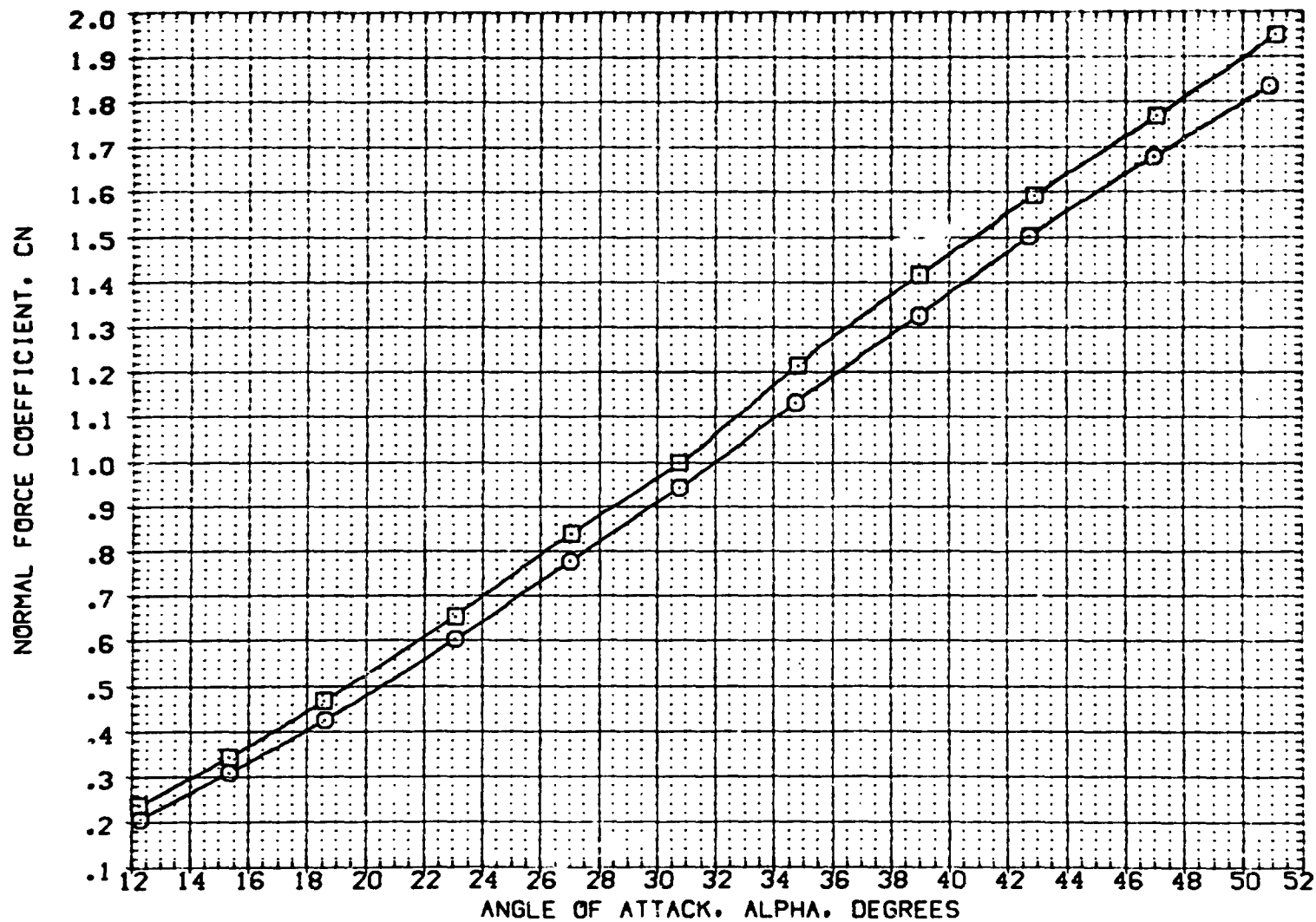


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6C:1)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6C:5)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	10.000	13.750	55.000	.000	

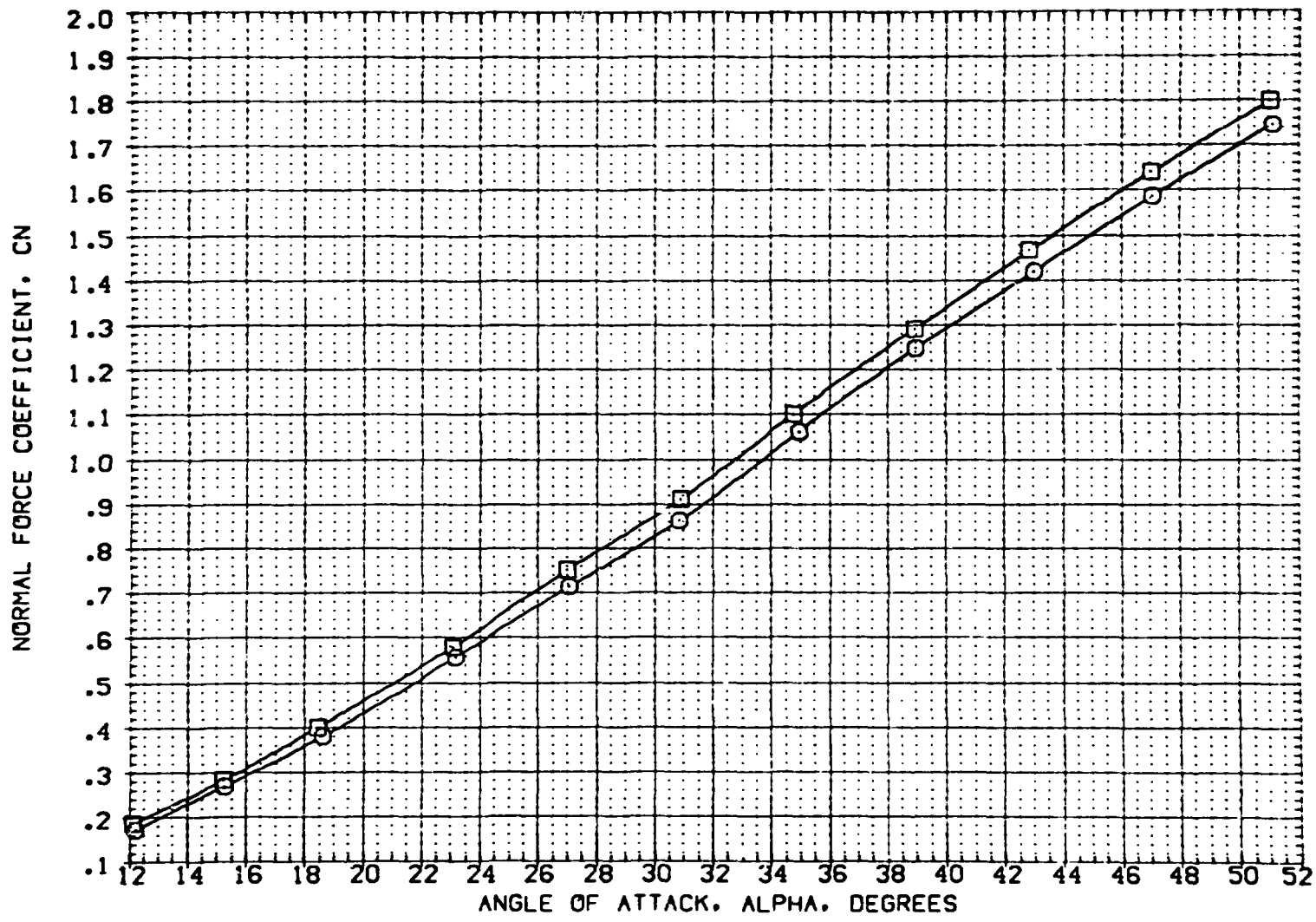


FIG. 7 ELEVON EFFECTS
 (B)MACH = 7.32
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

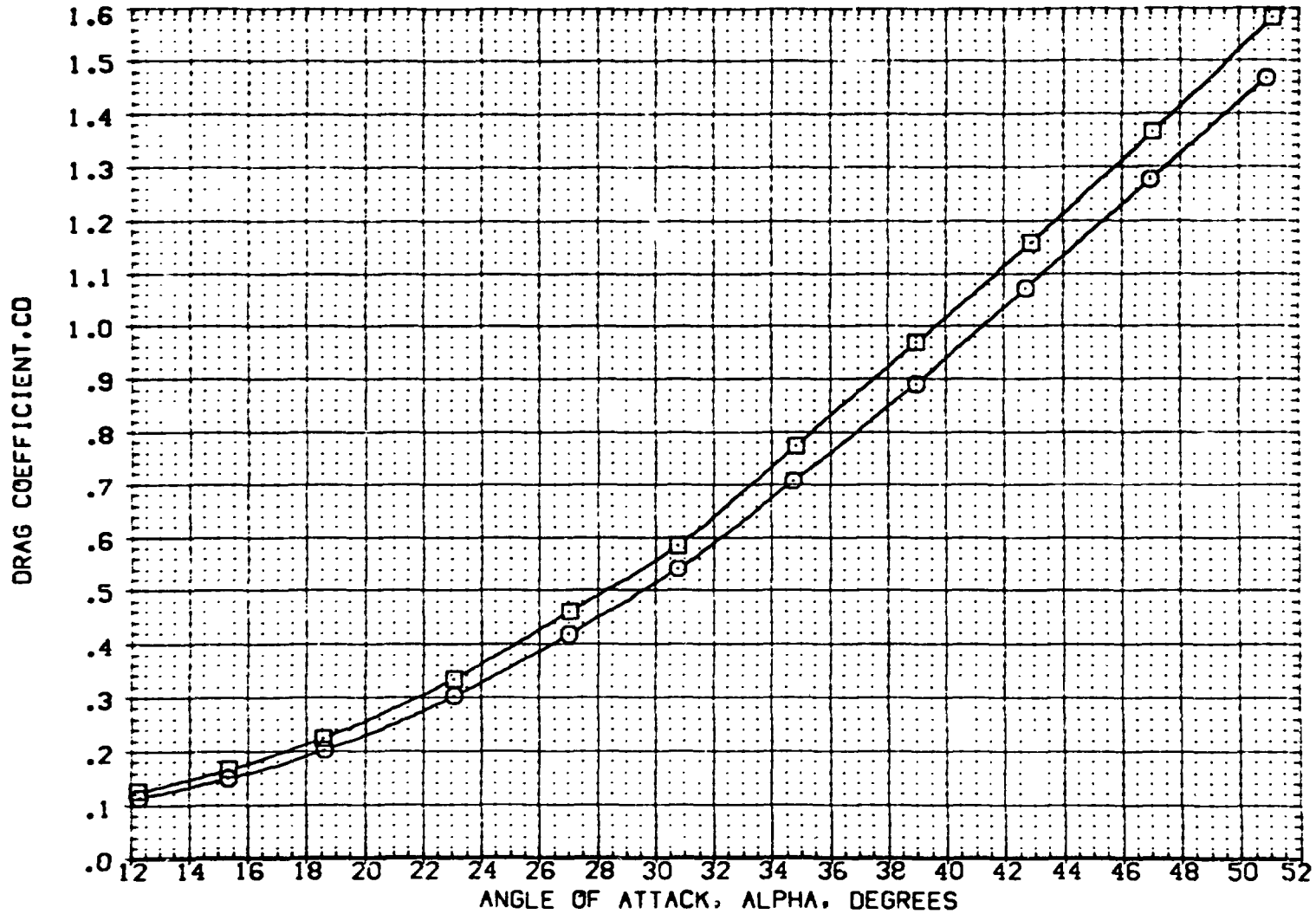


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB60:11)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	SREF 2690.0000 SO.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB60:15)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000	

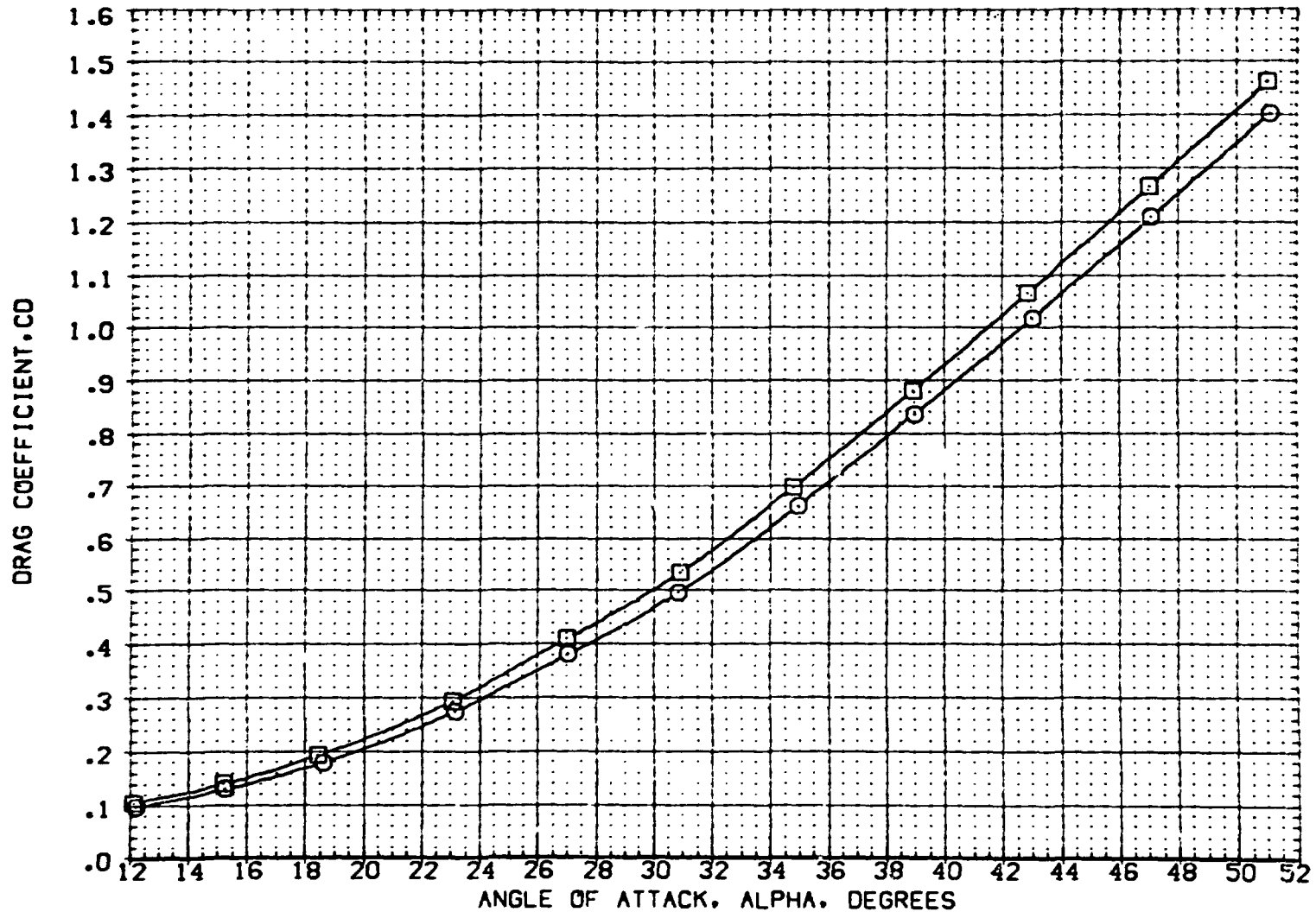


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

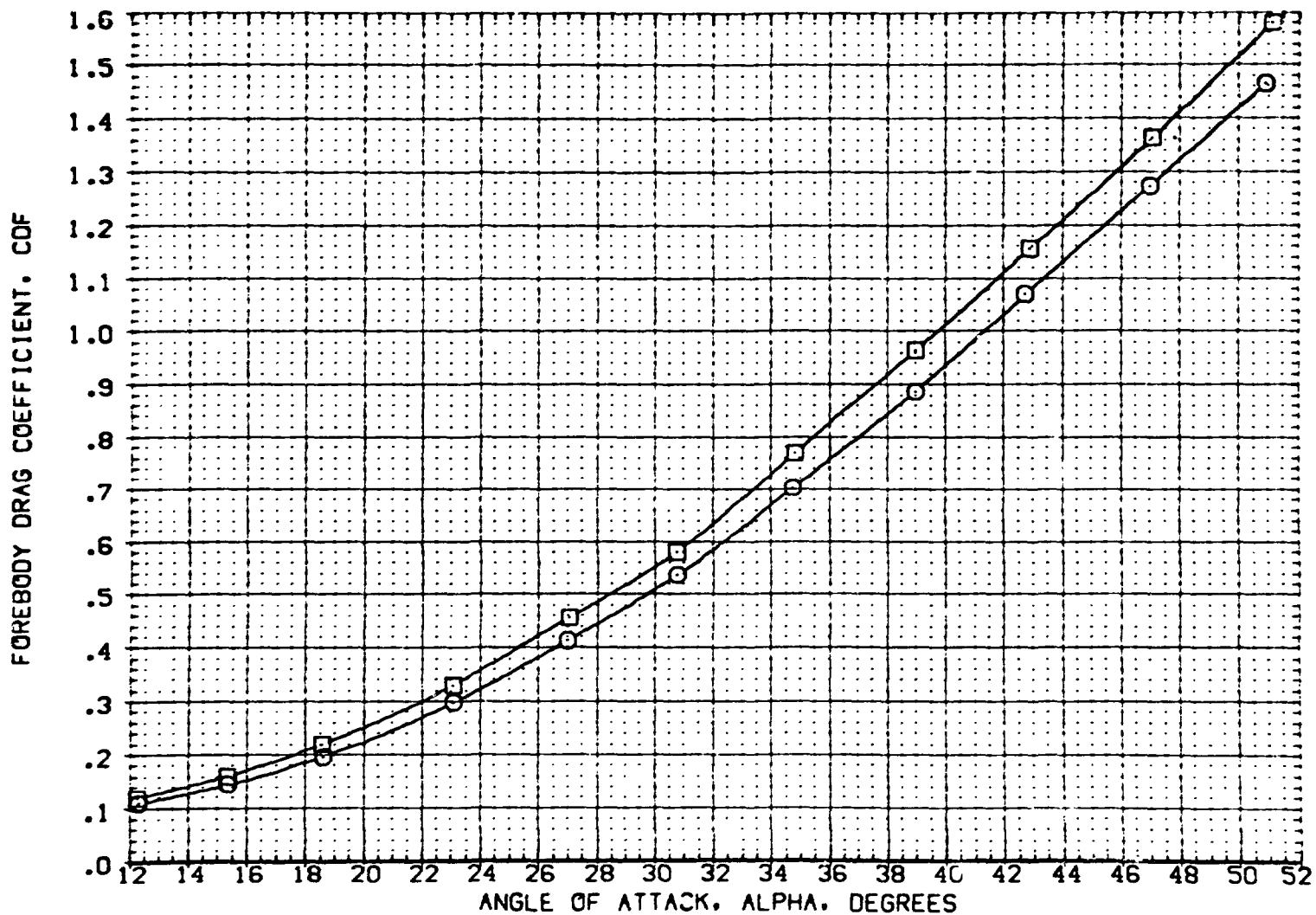


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPCRK	RUDDER	REFERENCE INFORMATION
(C86011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(C86015)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

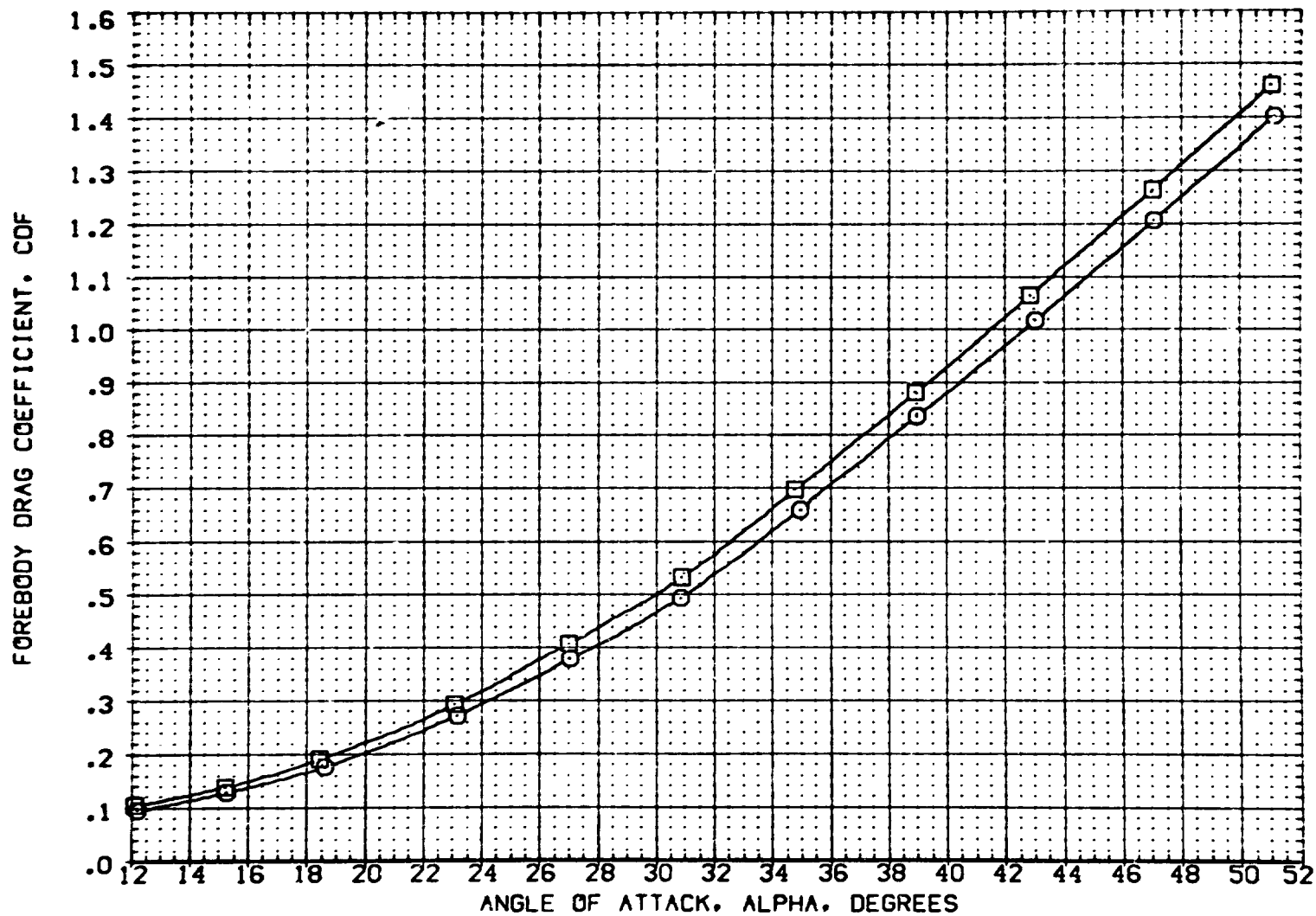


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C86011)	AMES3.5-168 OA23 819 C7 E23 F3 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT.
(C86015)	AMES3.5-168 OA23 819 C7 E23 F3 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

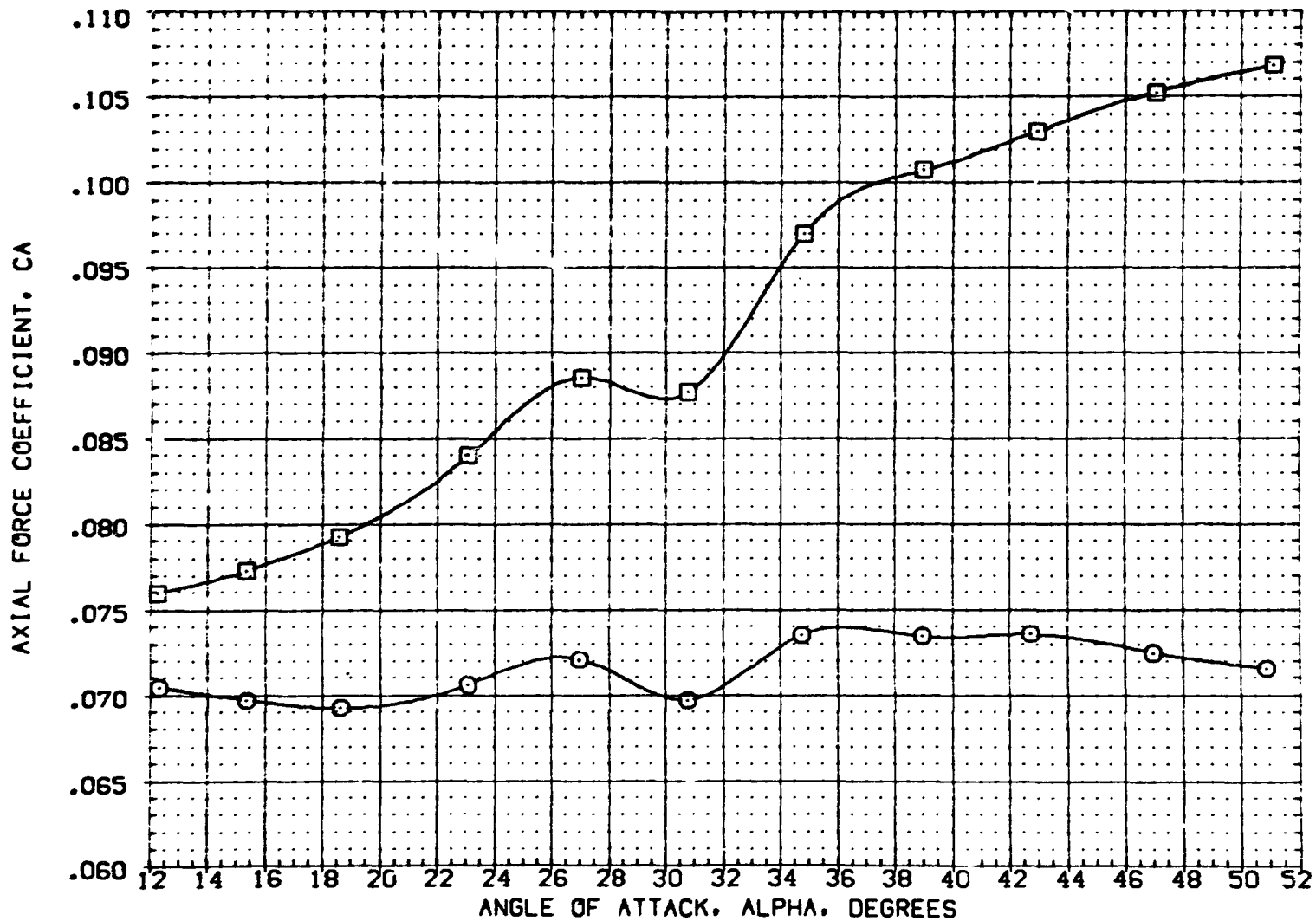


FIG. 7 ELEVON EFFECTS
 (A)MACH = 5.26
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 CA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. YMRP 1076.4800 IN. ZMRP .0000 IN. SCALE 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 CA23 819 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

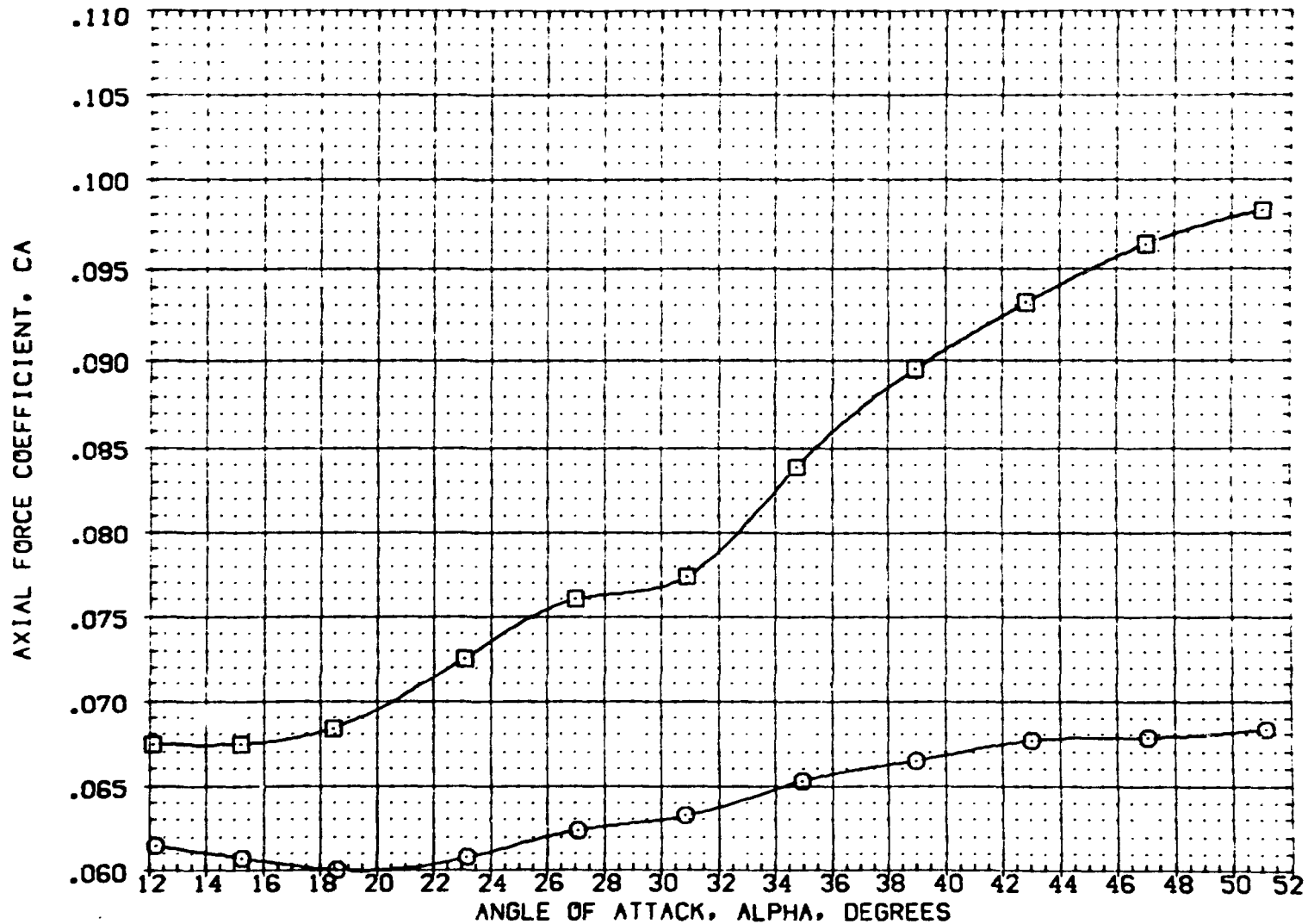


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	SREF 2690.0000 50.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	10.000	13.750	55.000	.000	

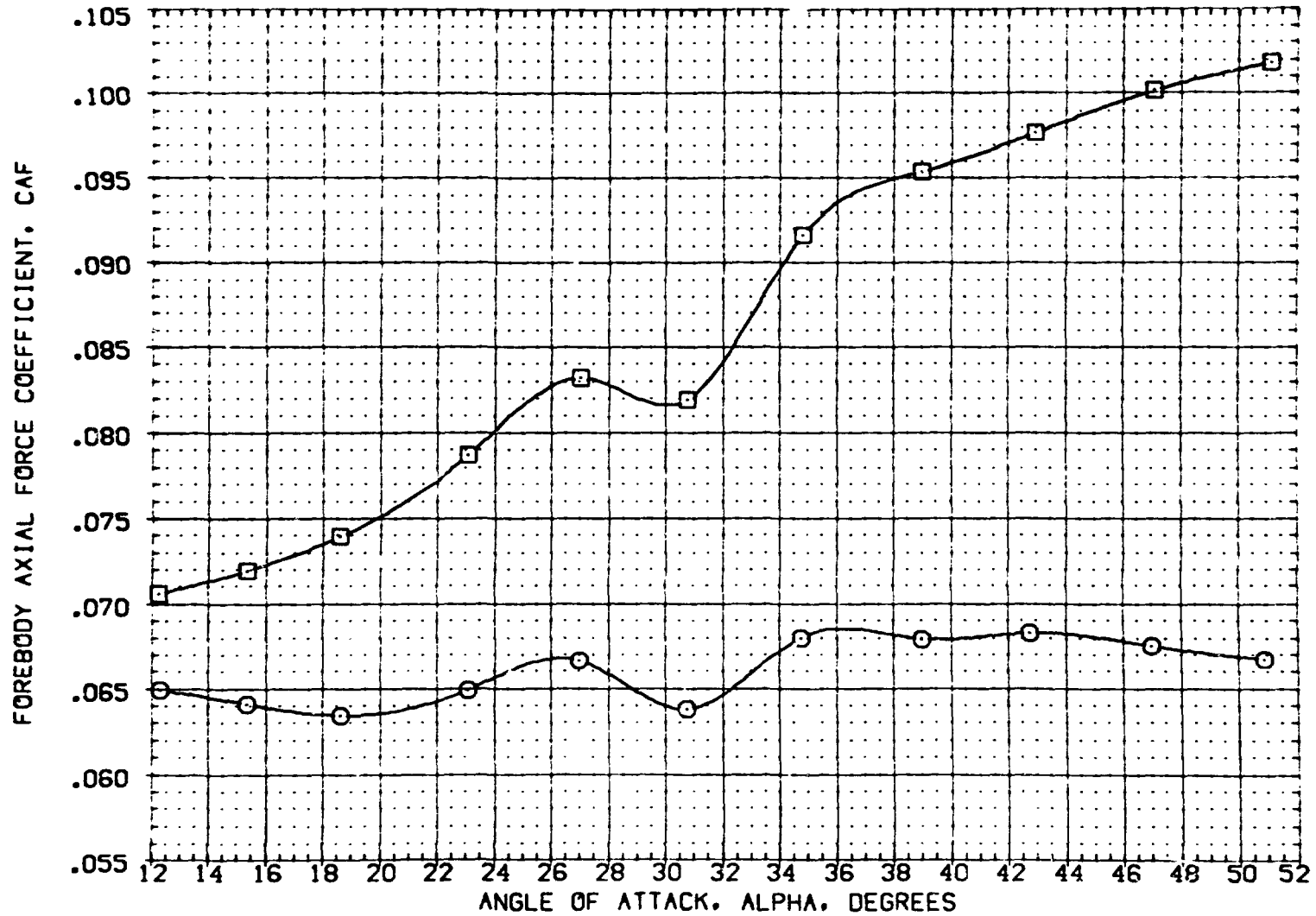


FIG. 7 ELEVON EFFECTS
 (A)MACH = 5.26
 139B CONFIGURATION (0.010-SCALE)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(C96C11)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(C96C15)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

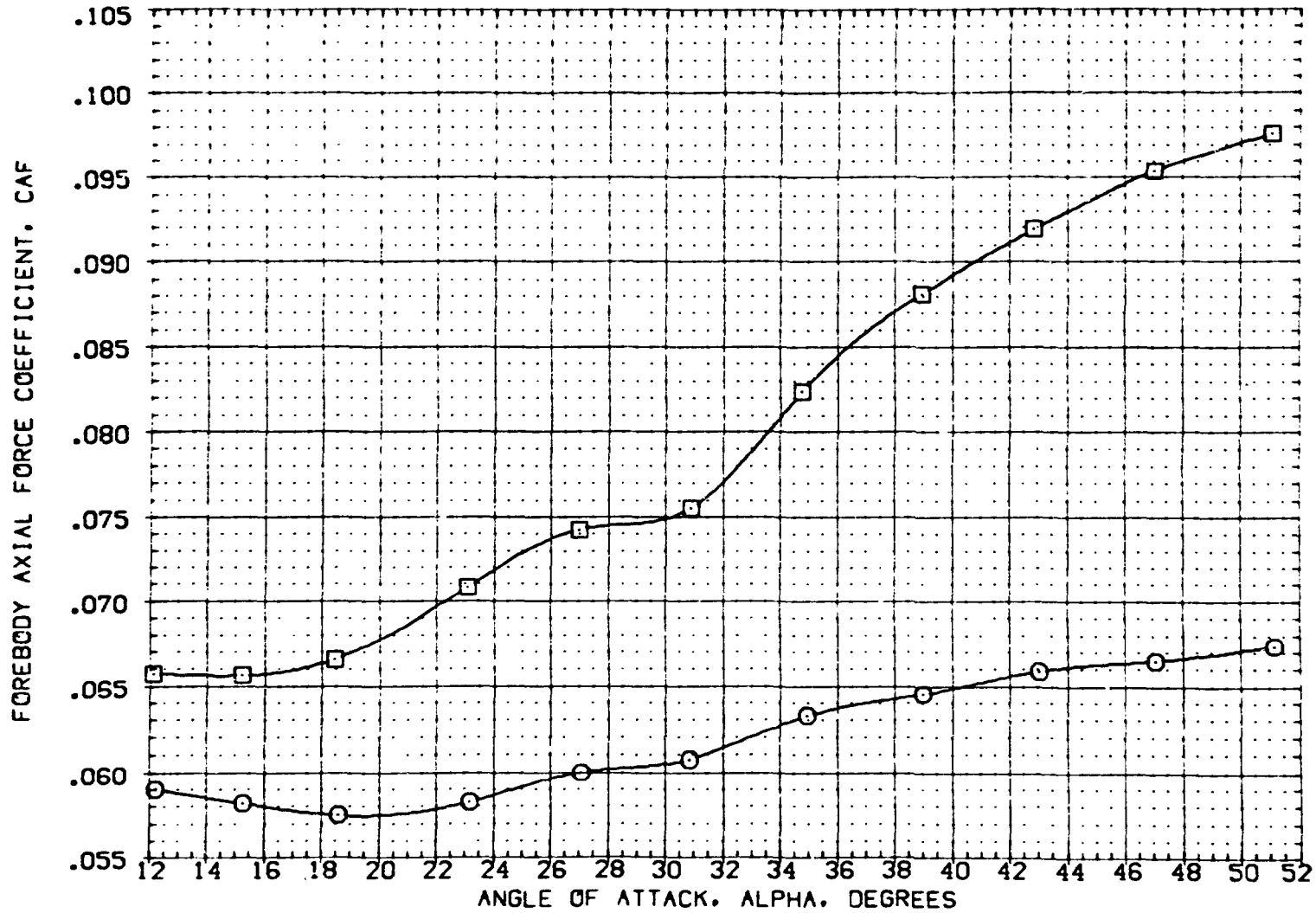


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BCFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB60:1)	AMES3.5-168 CA23 B19 C7 E23 F5 H4 N6 R5 V7 W107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 935.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN.
(CB60:15)	AMES3.5-168 CA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	10.000	13.750	55.000	.000	SCALE .0100 SCALE

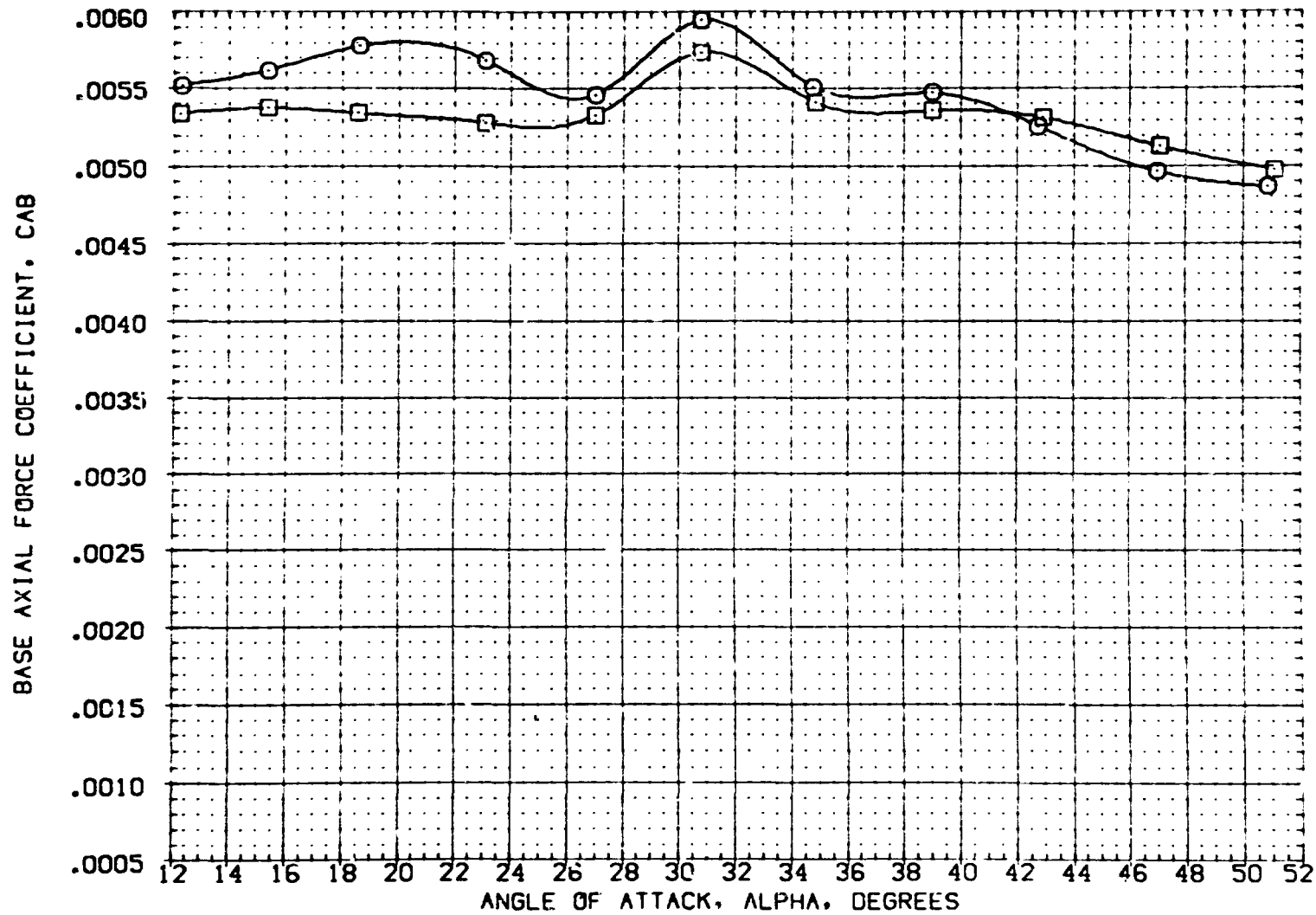


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A) MACH = 5.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDCER	REFERENCE INFORMATION
(C960:1)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SO.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(C960:5)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

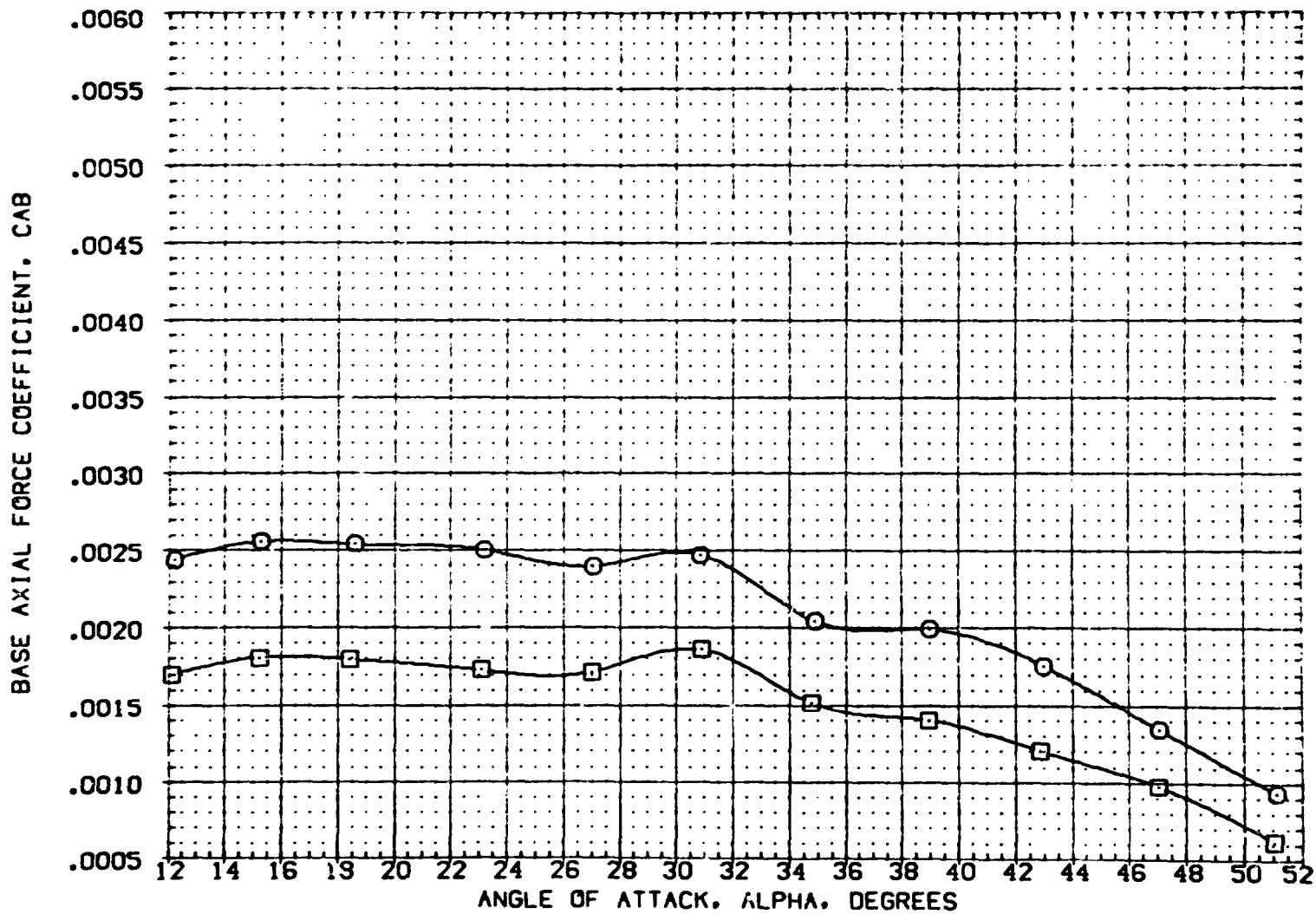


FIG. 7 ELEVON EFFECTS
 (B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(C96011)	□ AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	1.750	55.000	.000	SREF	2690.0000 SQ. FT.
(C96015)	○ AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	10.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XHRP	1076.4800 IN.
						YHRP	.0000 IN.
						ZHRP	400.0000 IN.
						SCALE	.0100 SCALE

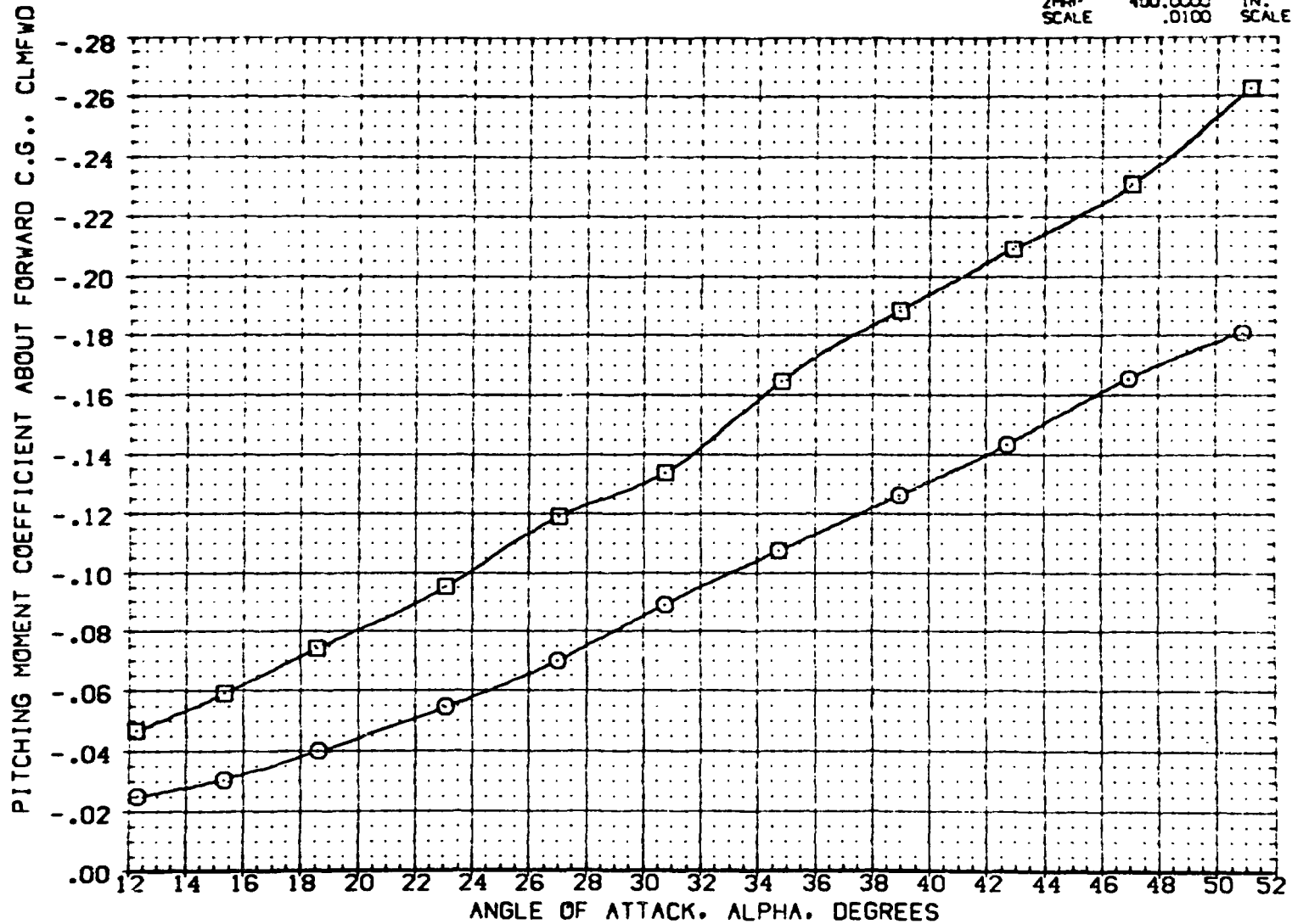


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SFOBRK	RUDDER	REFERENCE INFORMATION
(C96011)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(C96015)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

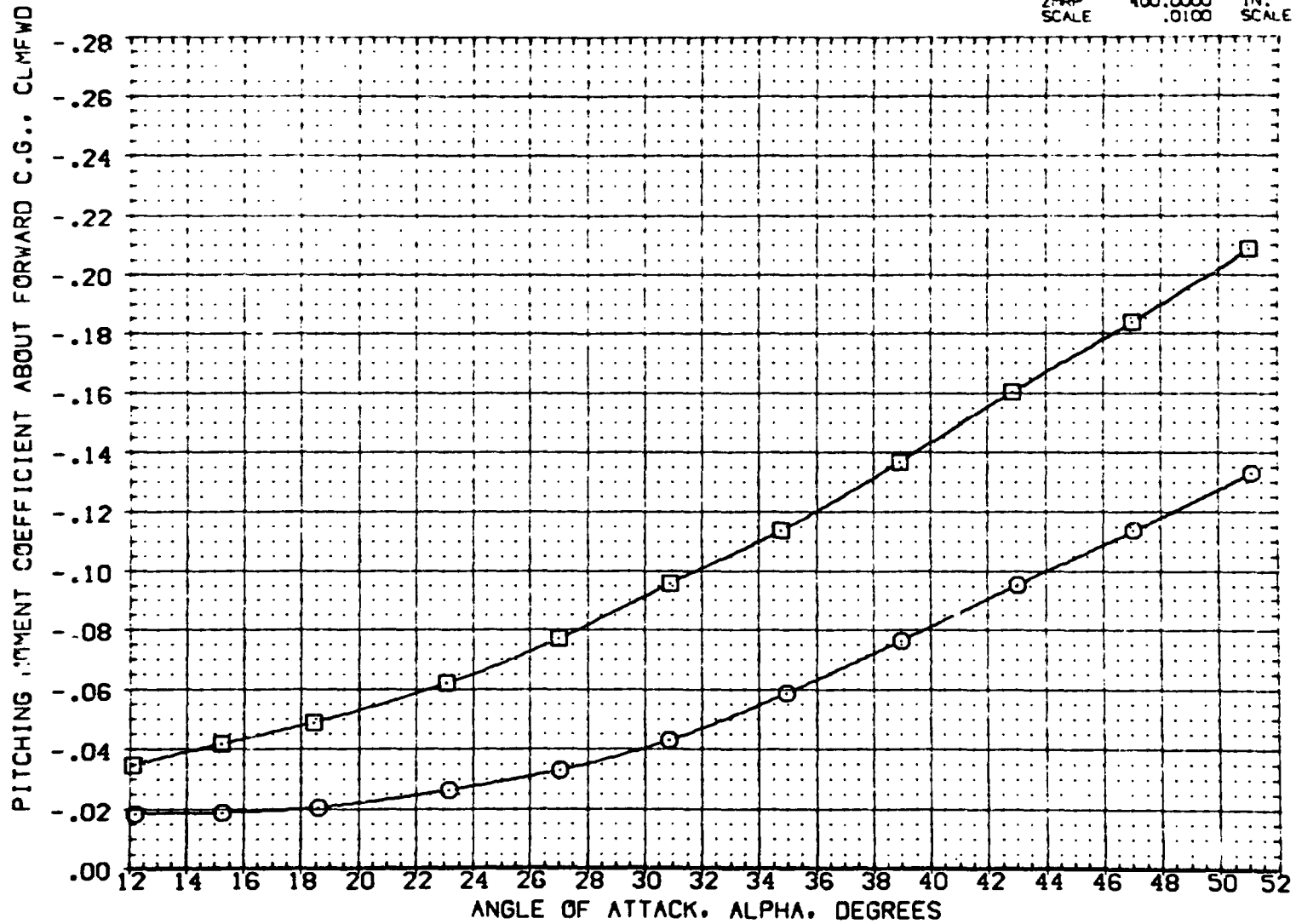


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(6) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6015)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

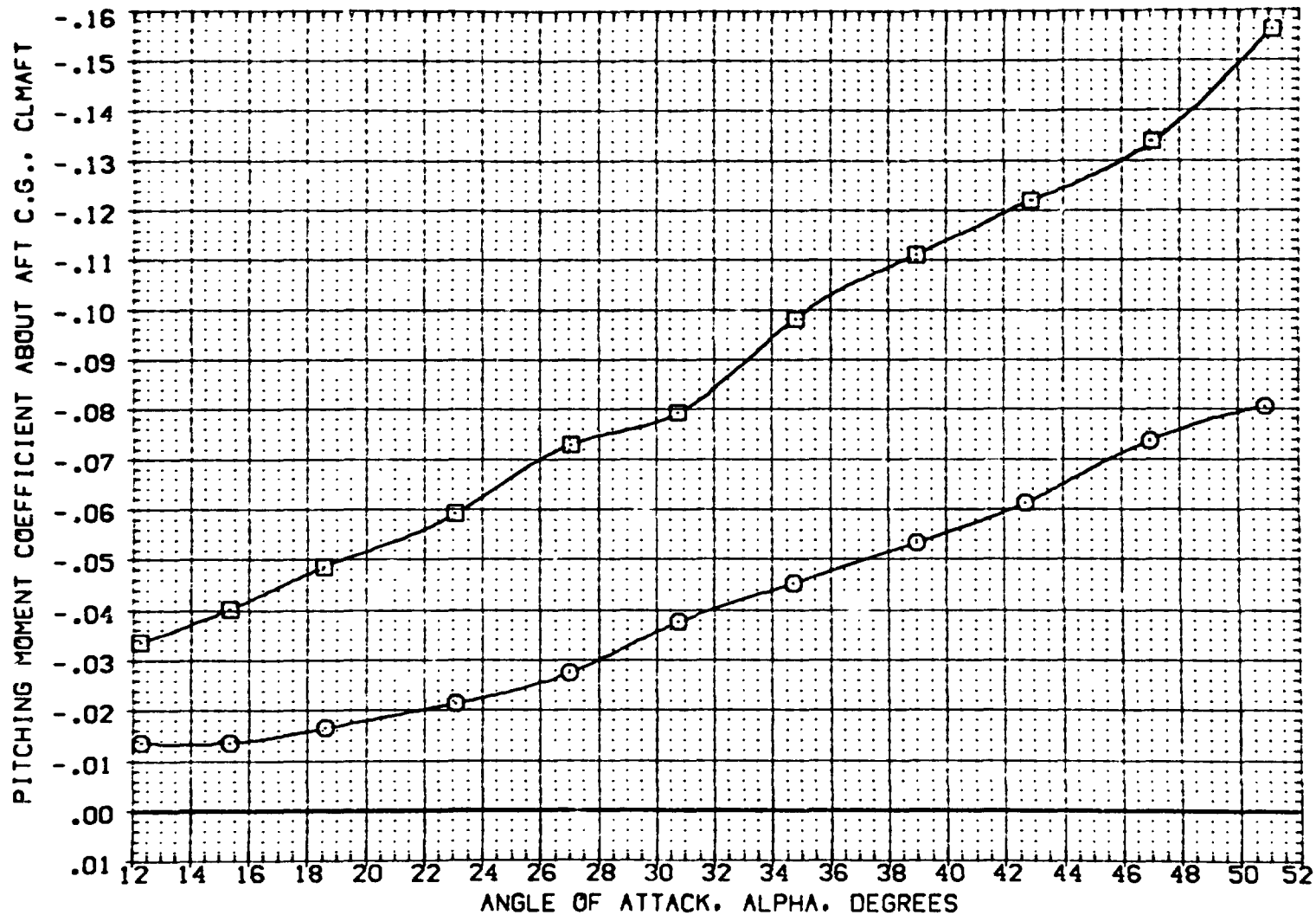


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6015)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

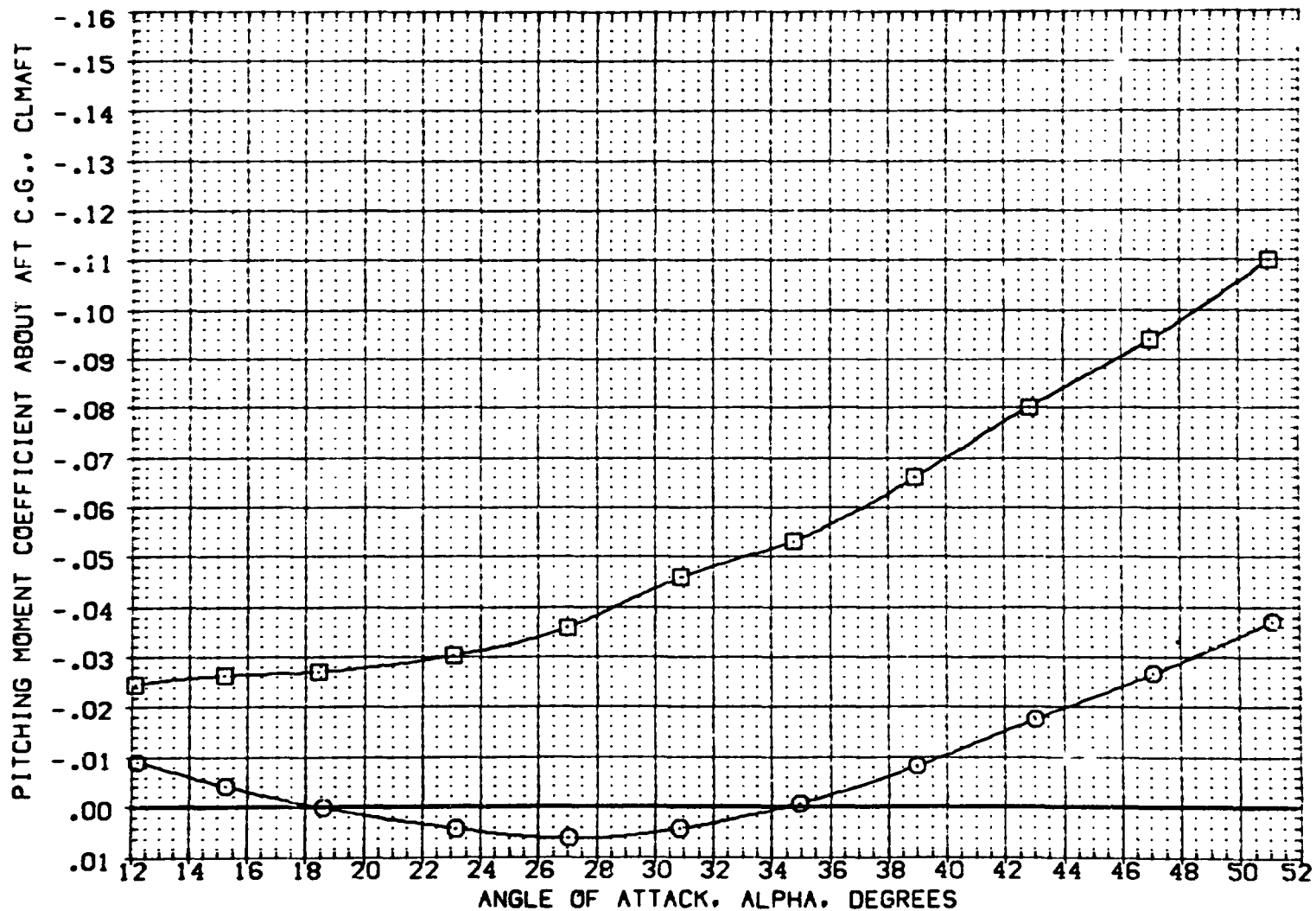


FIG. 7 ELEVON EFFECTS
 (B)MACH = 7.32
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	SREF	2690.0000 SQ.FT.
(CB6015)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XHRP	1076.4800 IN.
						YHRP	.0000 IN.
						ZHRP	400.0000 IN.
						SCALE	.0100 SCALE

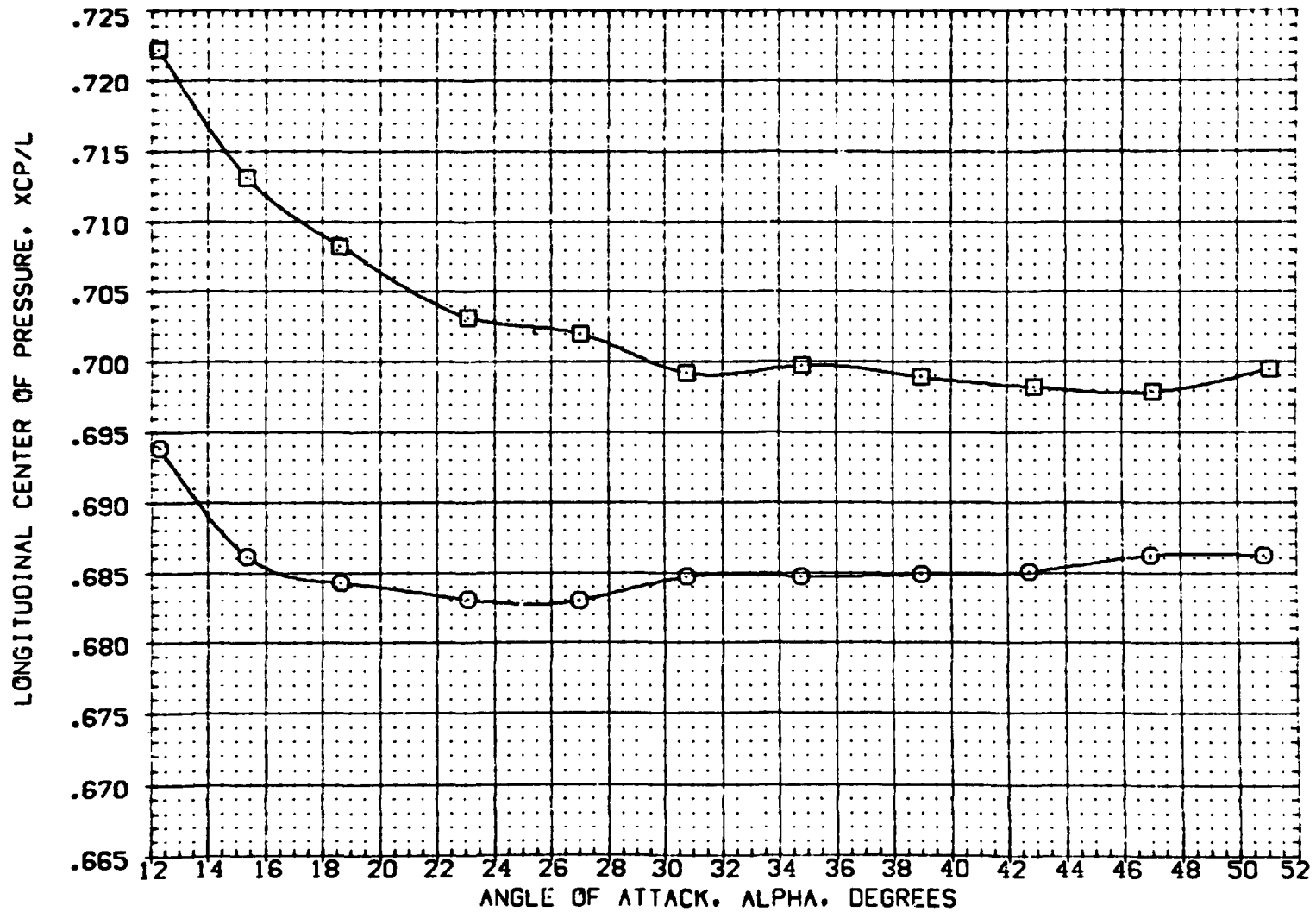


FIG. 7 ELEVON EFFECTS
 (A)MACH = 5.26
 139B CONFIGURATION (0.010-SCALE).

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	FL ELEV	BD FLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(C960:1)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 50.FT.
(C960:5)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

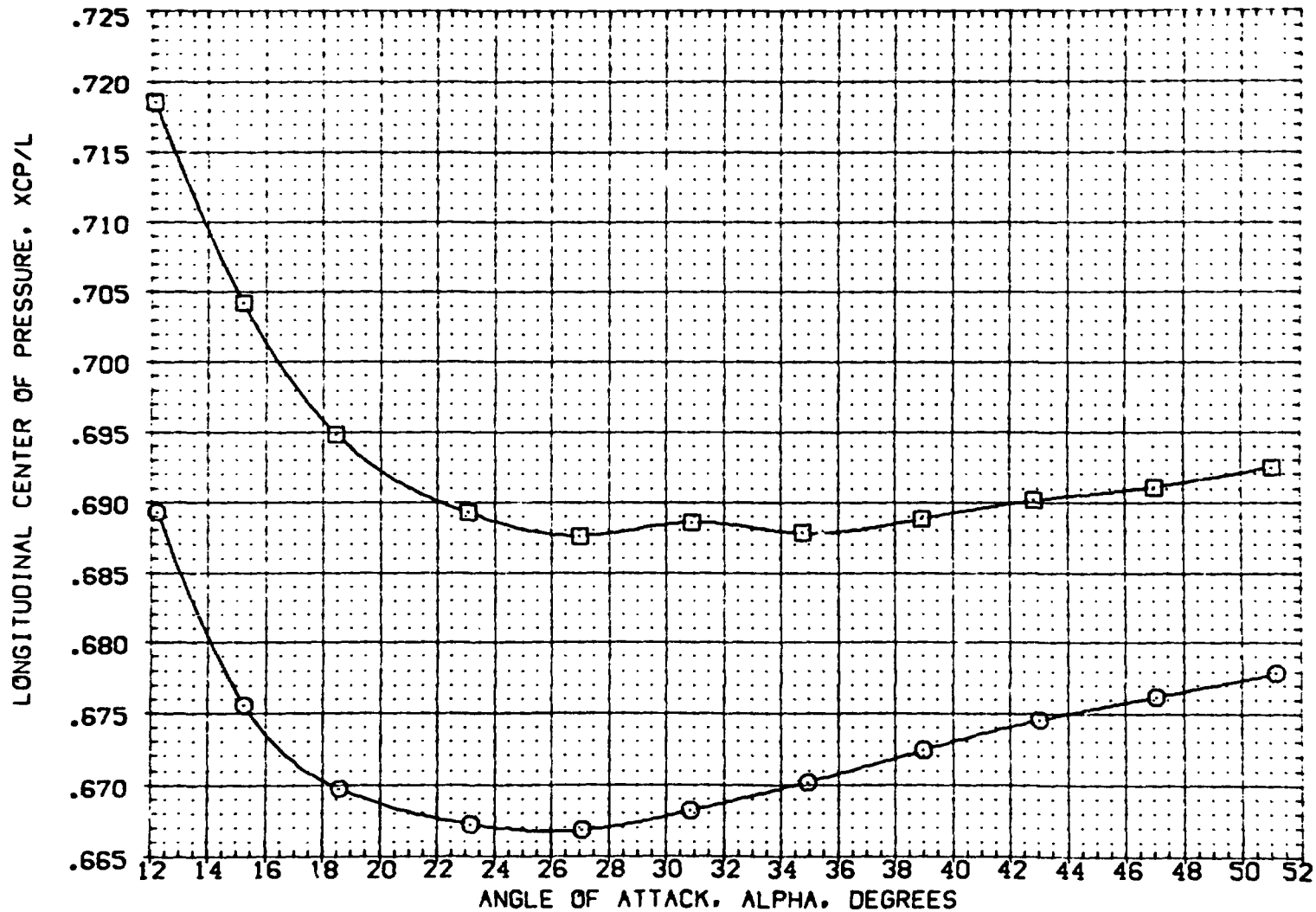


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	EDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B86011)	AMES3.5-168 DA23 B19 C7 E23 FS H4 N8 R5 V7 W107	.000	13.750	55.000	.000	SREF 2630.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6900 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(B86015)	AMES3.5-168 DA23 B19 C7 E23 FS H4 N8 R5 V7 W107	10.000	13.750	55.000	.000	

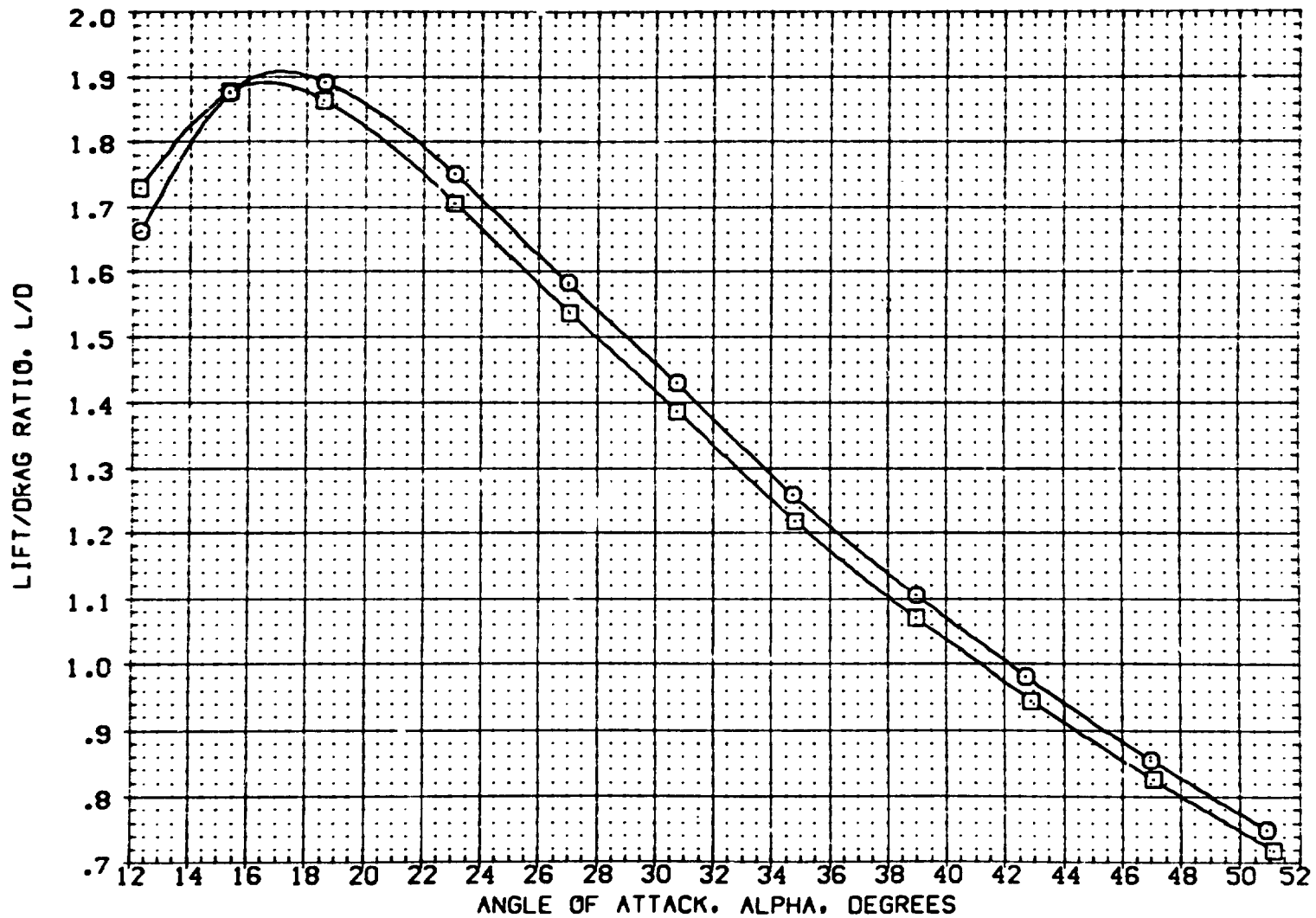


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(8860:1)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(8860:5)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

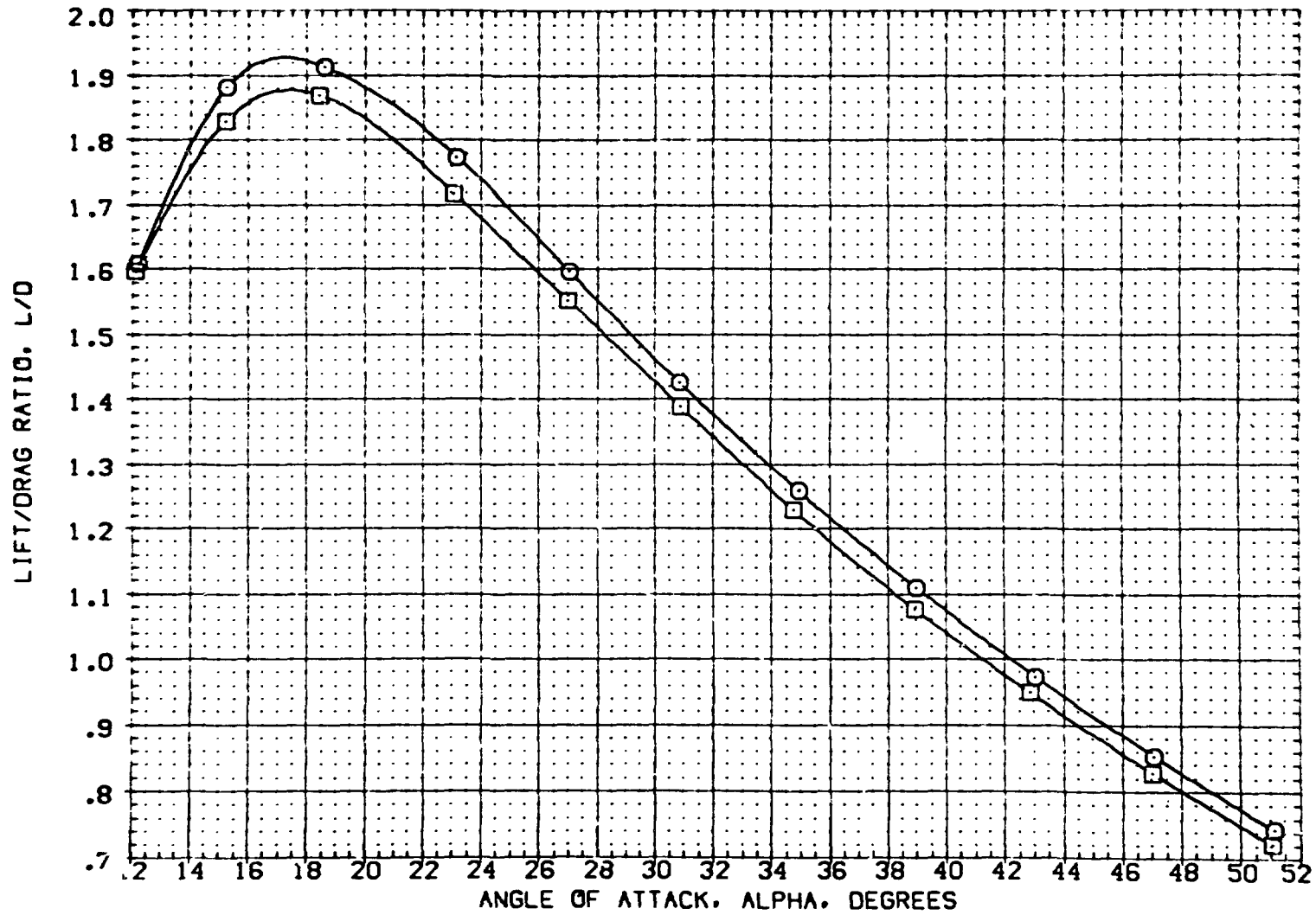


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6011)	○ AMES3.5-168 OA23 819 C7 E23 F5 H4 NB R5 V7 V107	.000	13.750	55.000	.000	SREF	2690.0000 SQ.FT.
(CB6015)	□ AMES3.5-168 OA23 819 C7 E23 F5 H4 NB R5 V7 V107	10.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

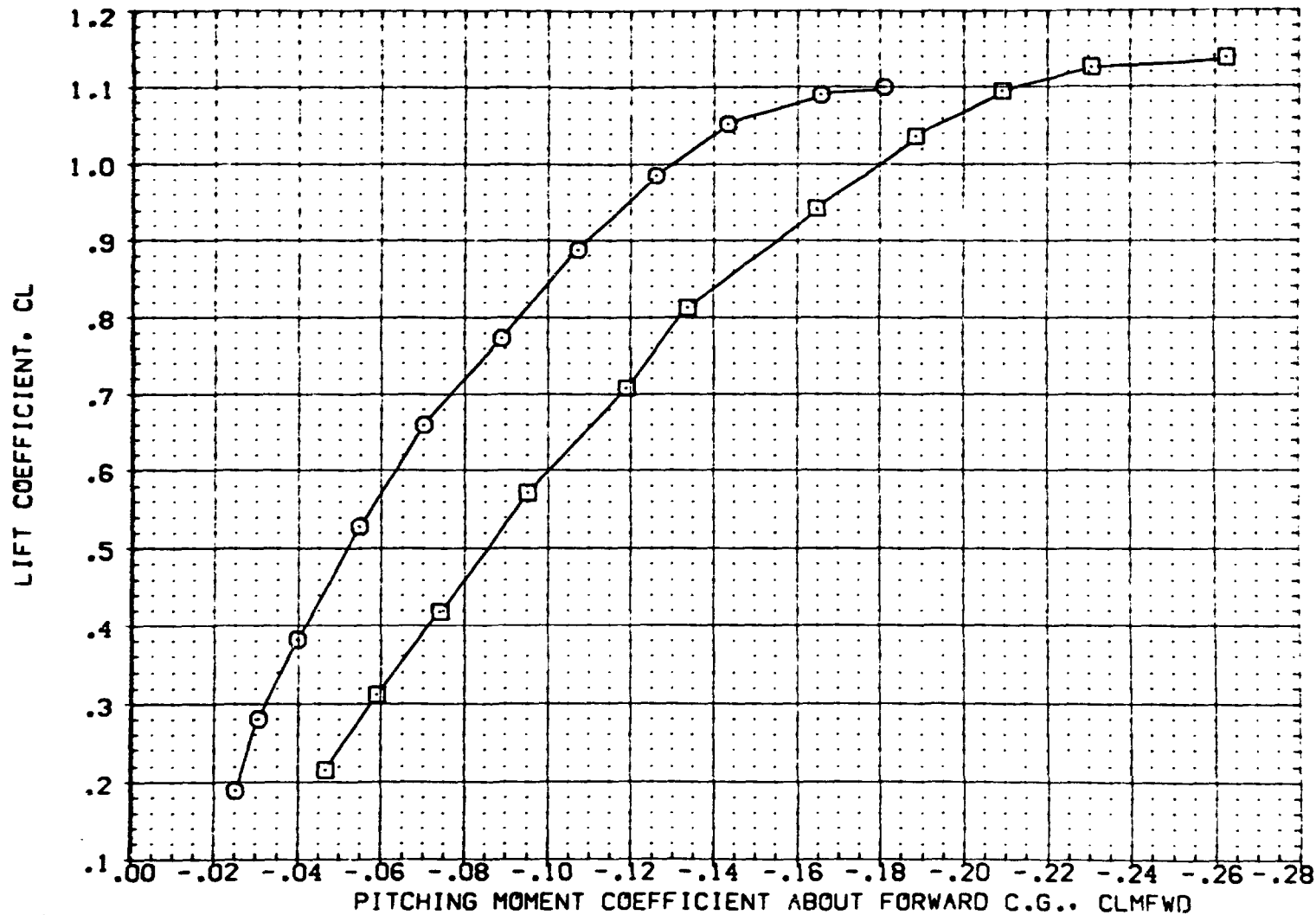


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB60:1)	○ AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB60:5)	□ AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 W107	10.000	13.750	55.000	.000	

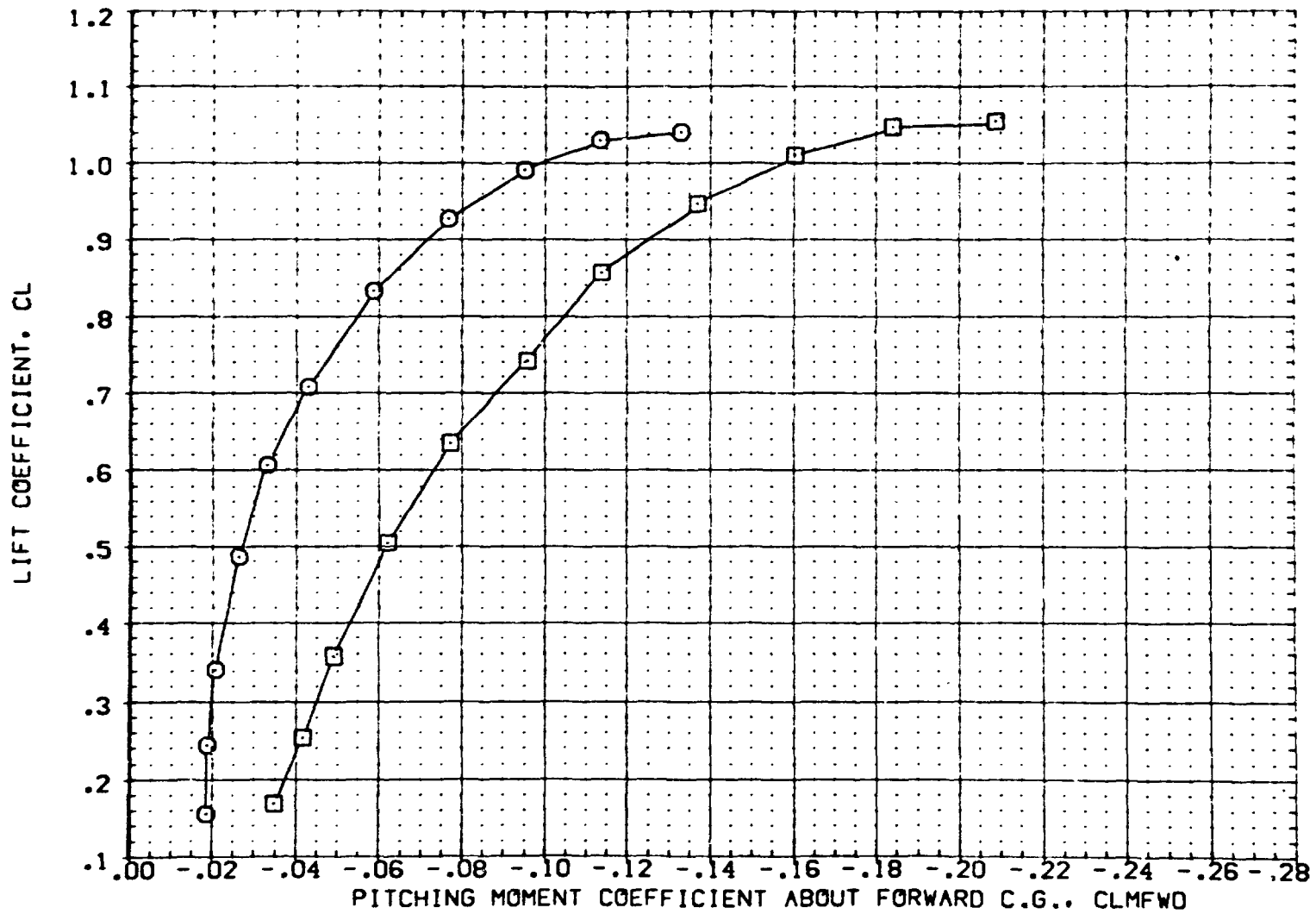


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(C86011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF	2690.0000 SQ.FT.
(C86015)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

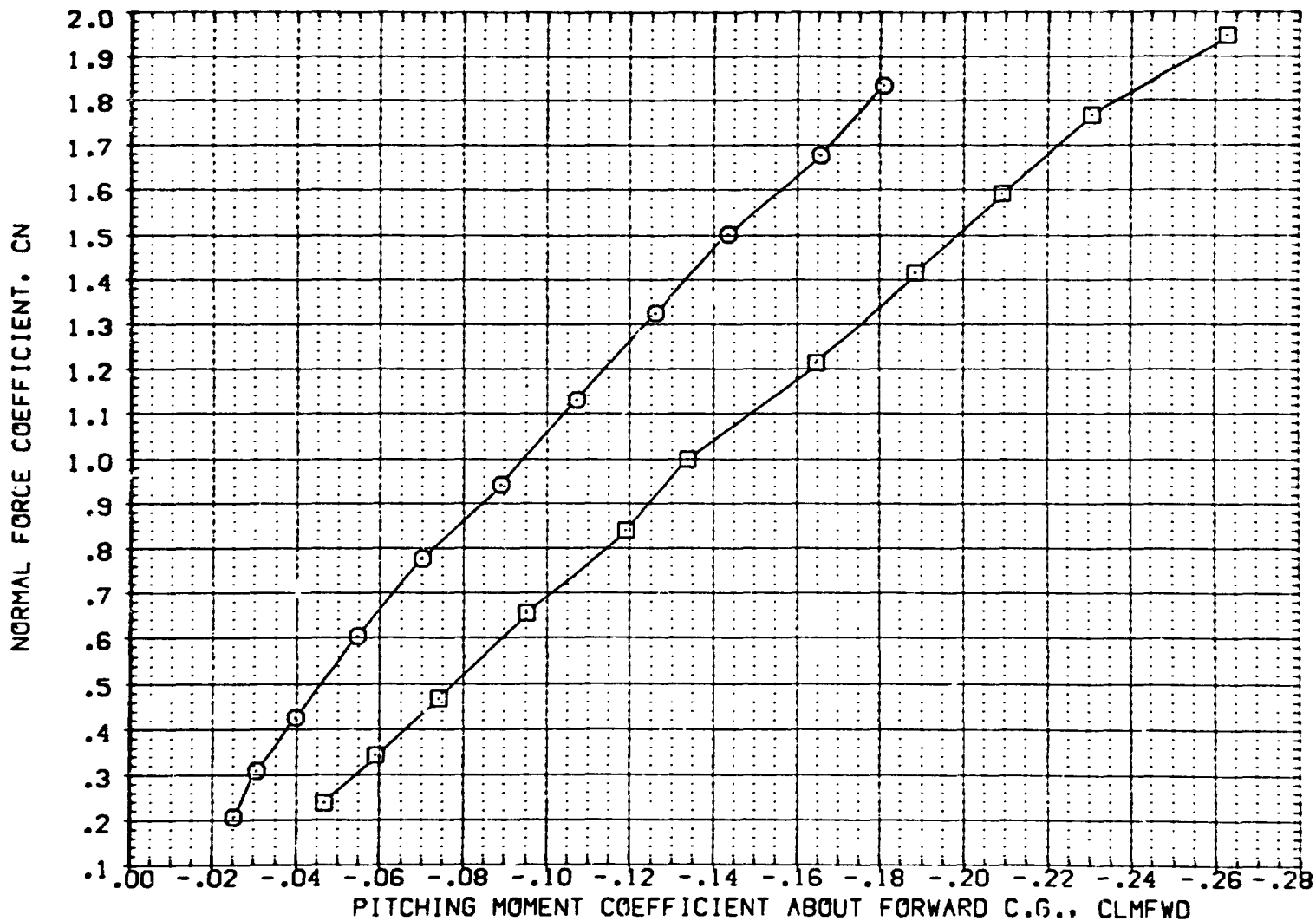


FIG. 7 ELEVON EFFECTS
 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 50.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	10.000	13.750	55.000	.000	

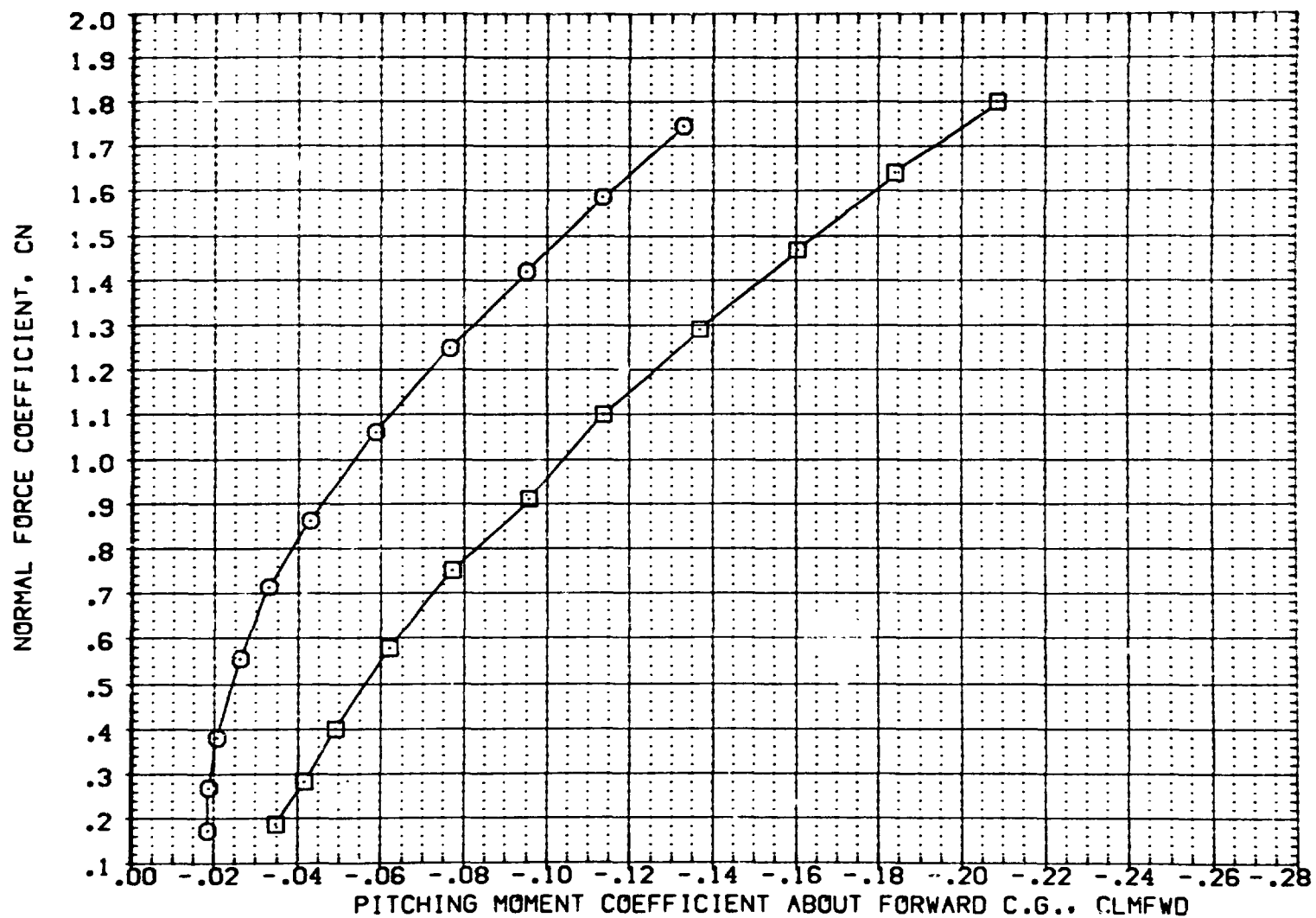


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6011)	AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6015)	AMES3.5-168 0A23 919 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	

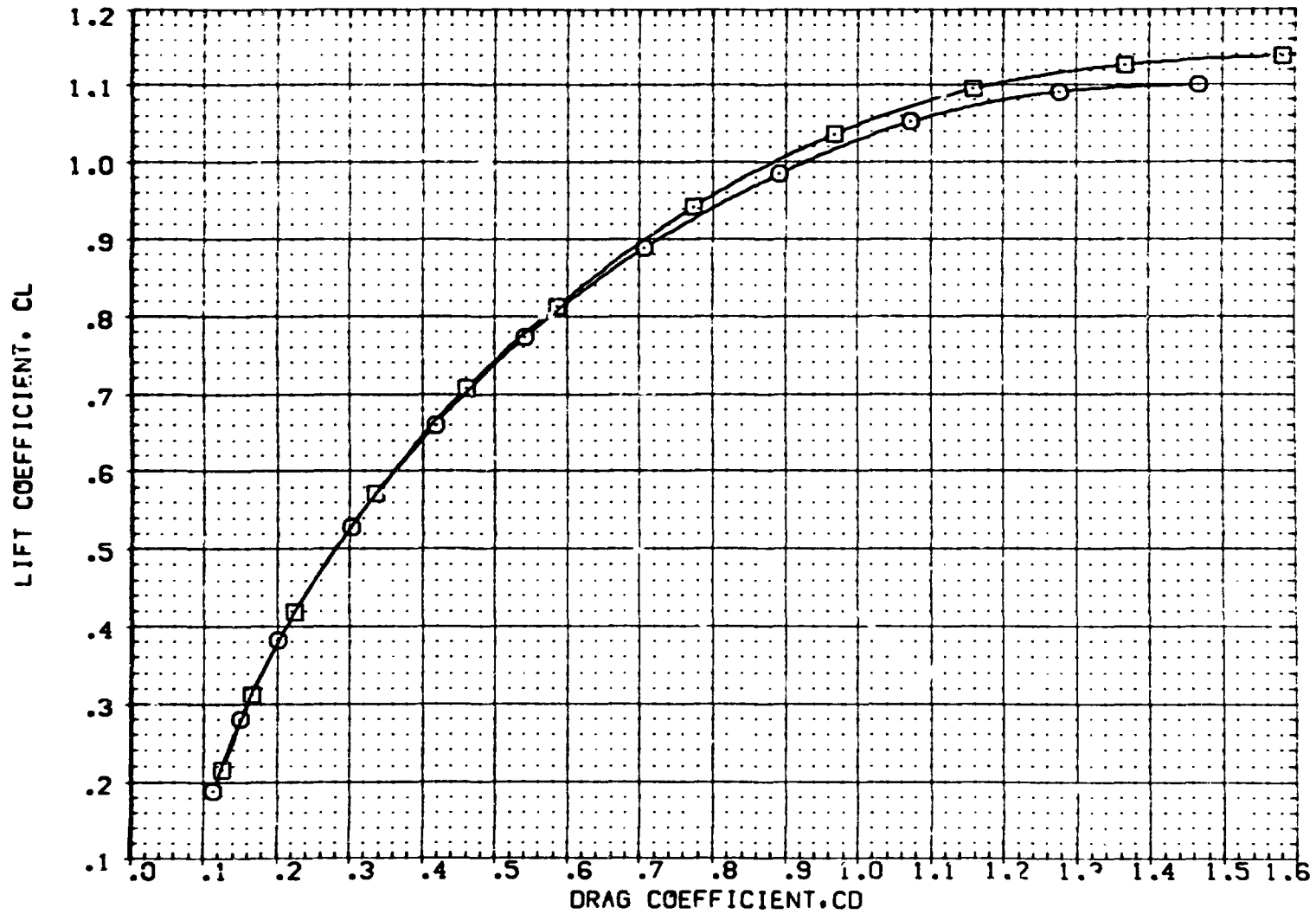


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6011)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SREF	2690.0000 SQ.FT.
(CB6015)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.1800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

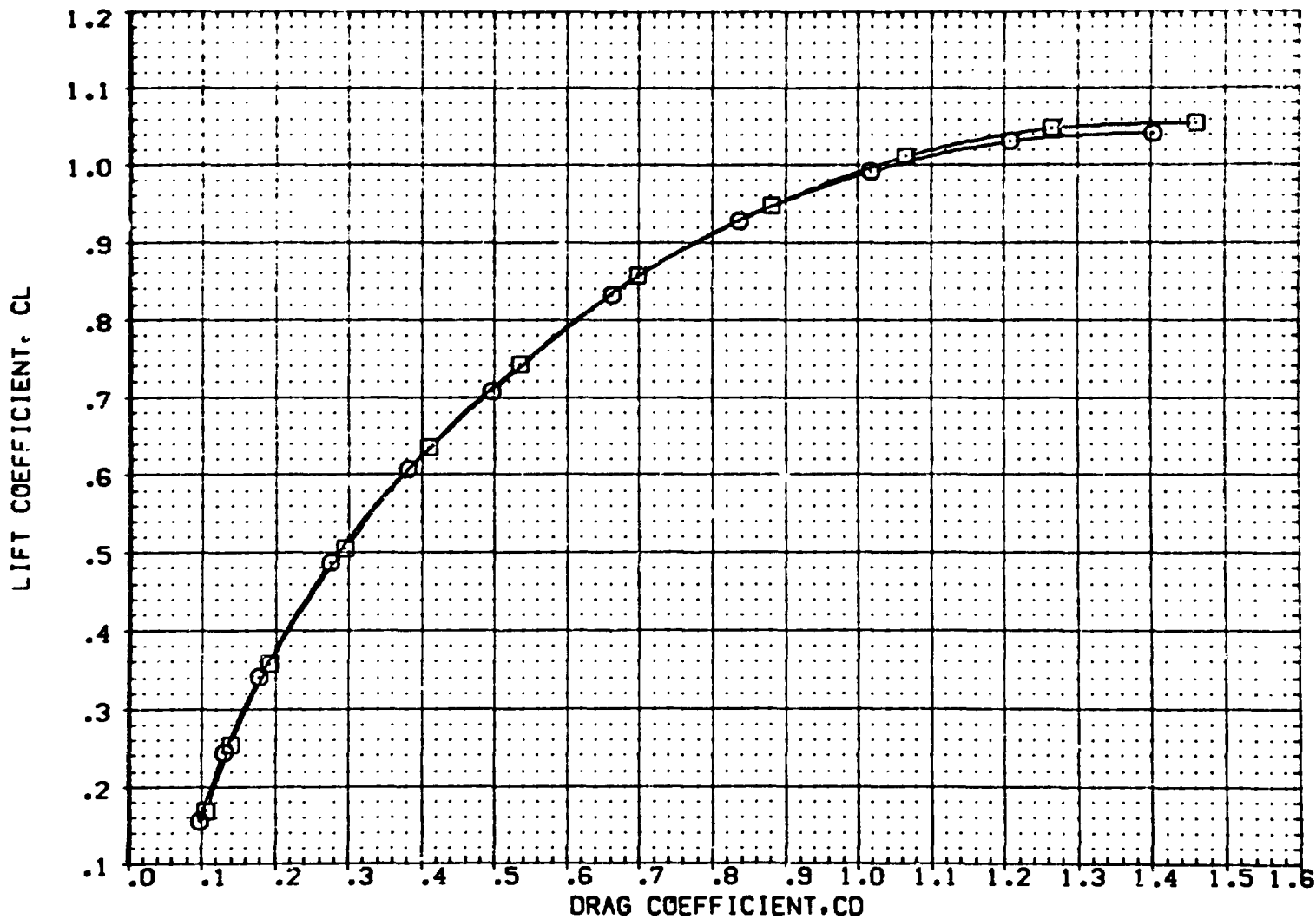


FIG. 7 ELEVON EFFECTS
 (B)MACH = 7.32
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 B:9 C7 E23 F5 M4 N8 R5 Y7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B:9 C7 E23 F5 M4 N8 R5 Y7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.70	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

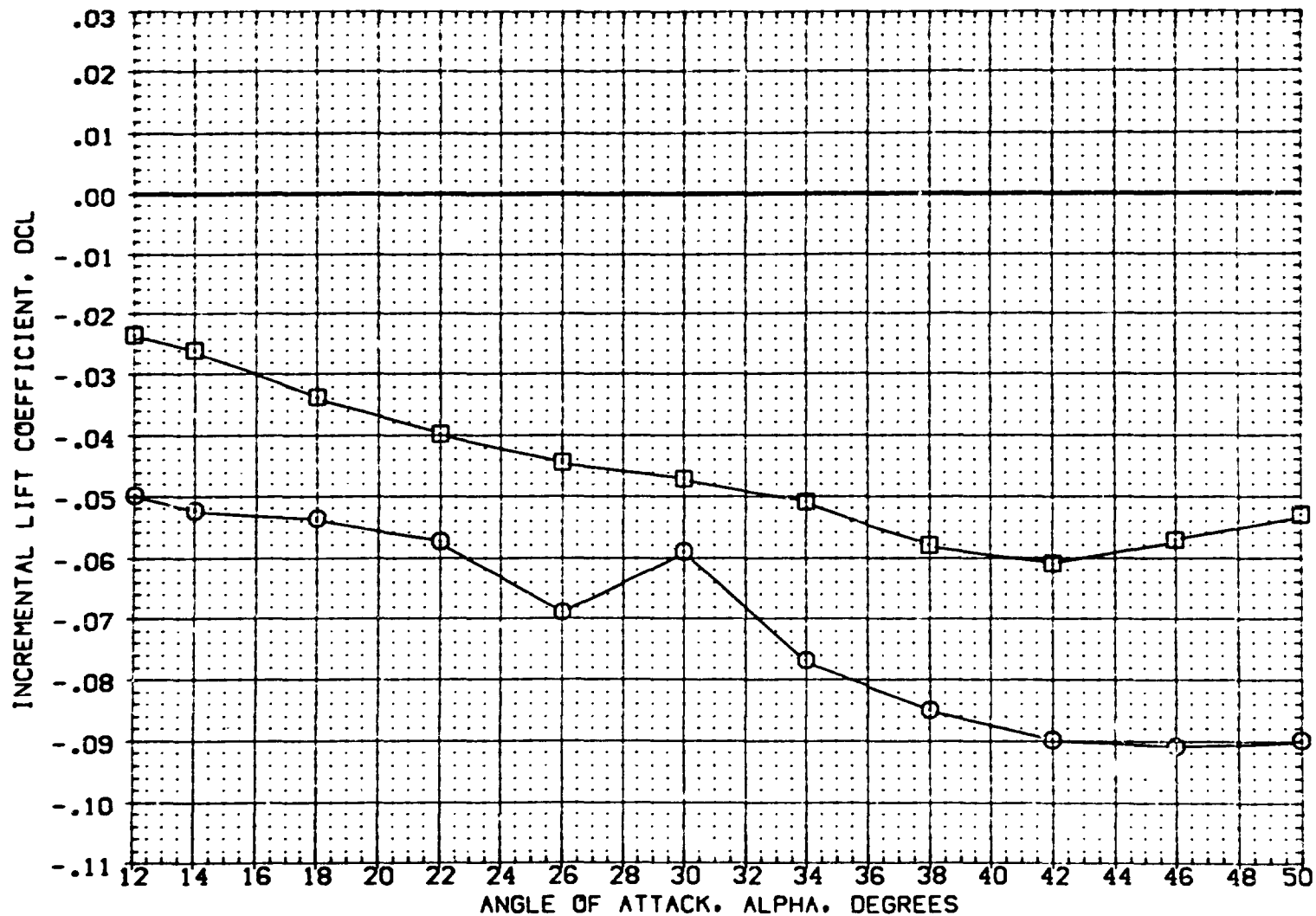


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 50.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1073.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

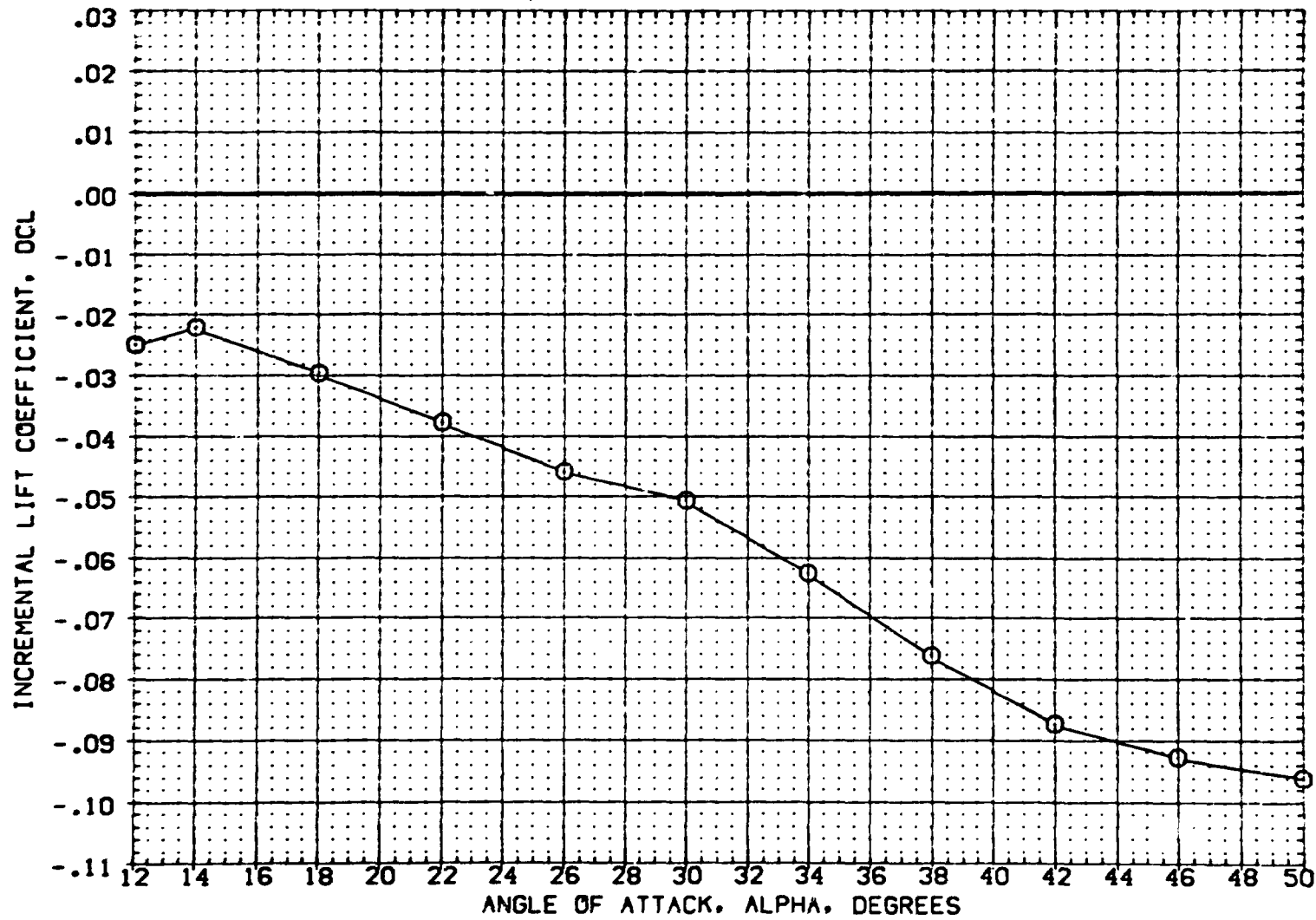


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6018)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V1C7	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6020)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V1C7	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(TB6019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(TB6021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(TB6013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0100 SCALE

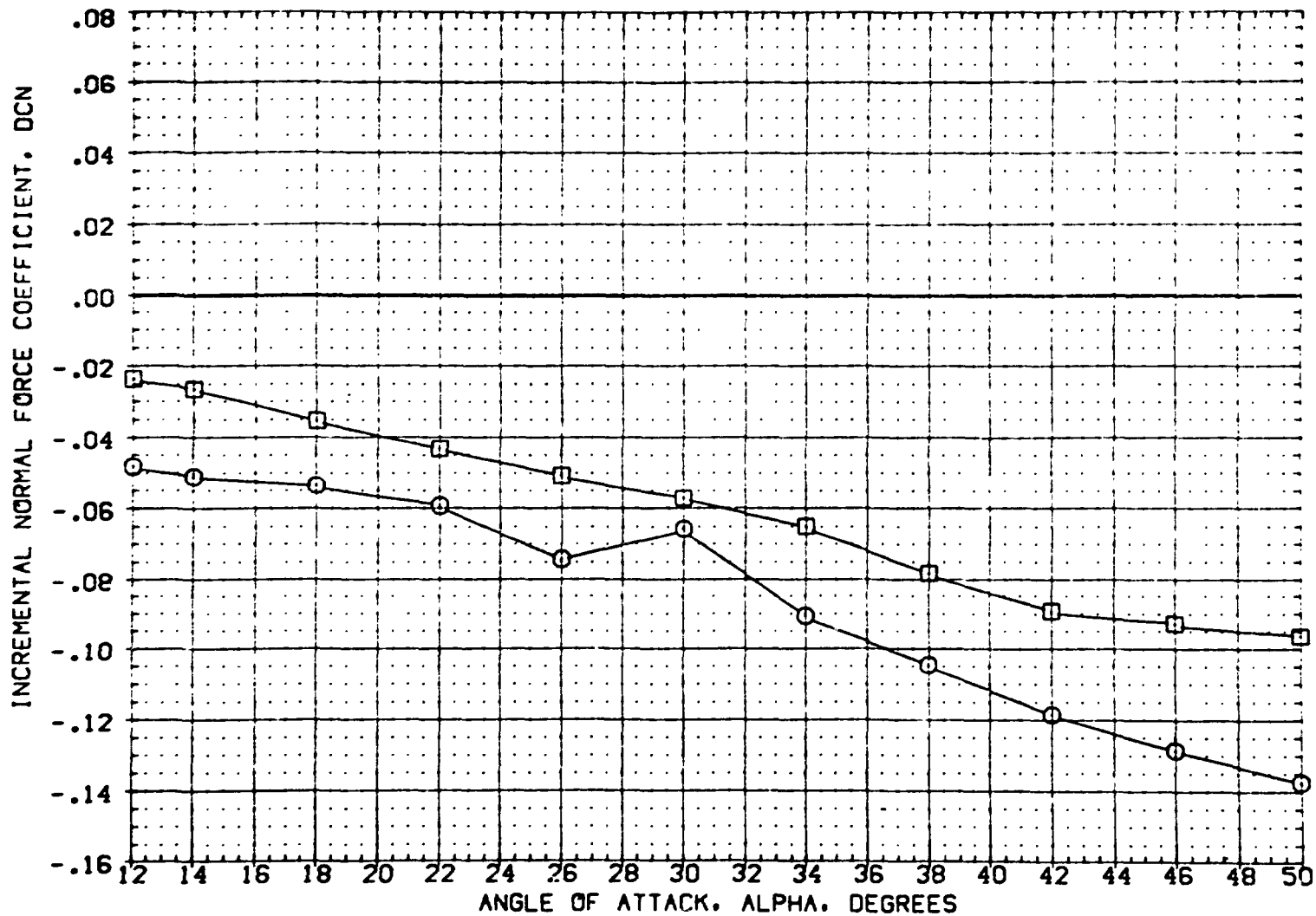


FIG. 7 ELEVON EFFECTS
(A) MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 GA23 B19 C7 E23 F5 F4 F6 F7 F8 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 GA23 B19 C7 E23 F5 F4 F6 F7 F8 V7 V107	-30.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	AMES3.5-168 GA23 B19 C7 E23 F5 F4 F6 F7 F8 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	AMES3.5-168 GA23 B19 C7 E23 F5 F4 F6 F7 F8 V7 V107	-10.000	-14.250	55.000	.000	XHRP 1076.4800 IN.
(T86013)	AMES3.5-168 GA23 B19 C7 E23 F5 F4 F6 F7 F8 V7 V107	10.000	-14.250	55.000	.000	YHRP .0000 IN. ZHRP 400.0000 IN. SCALE .0100 SCALE

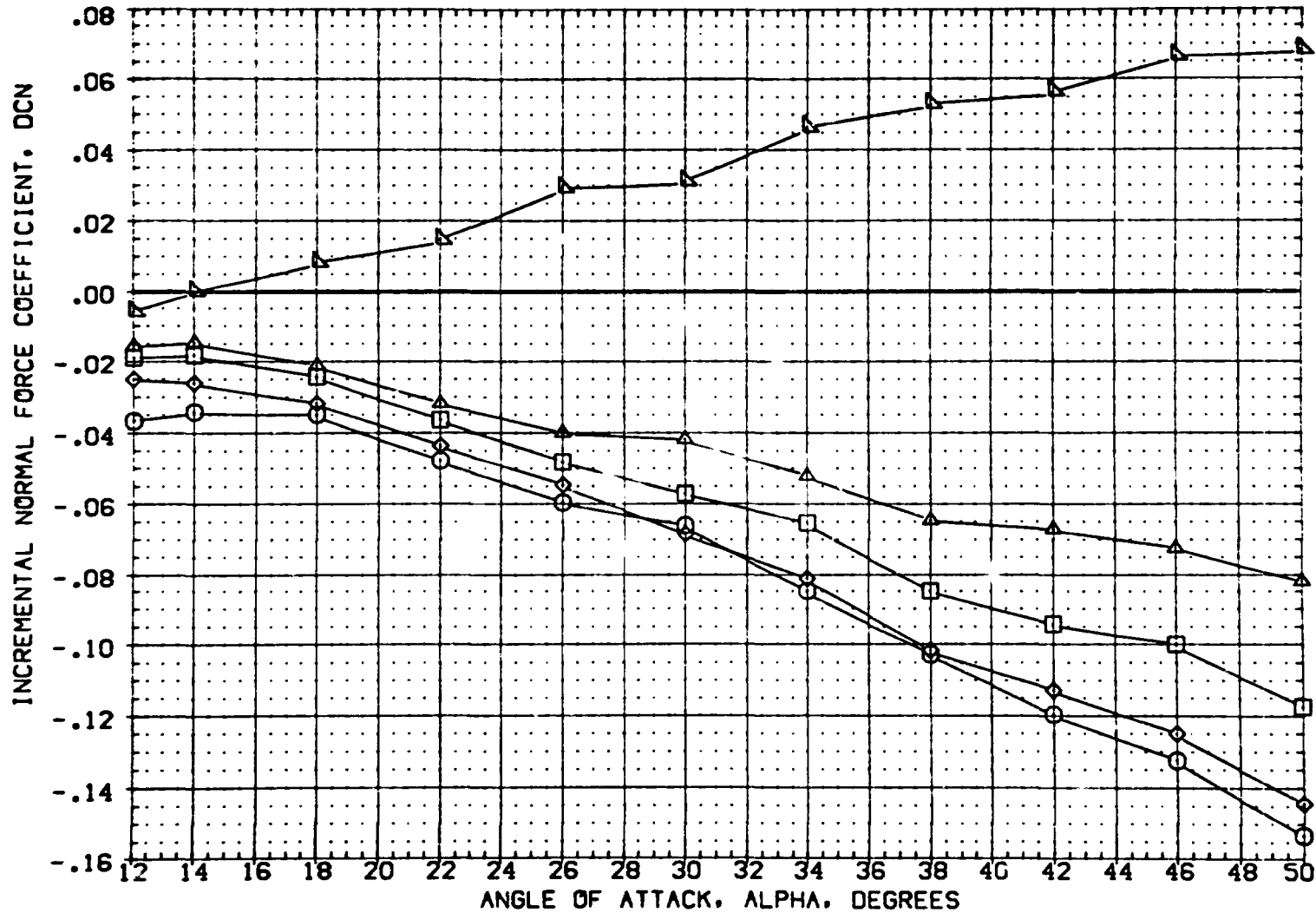


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XHRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0100 SCALE

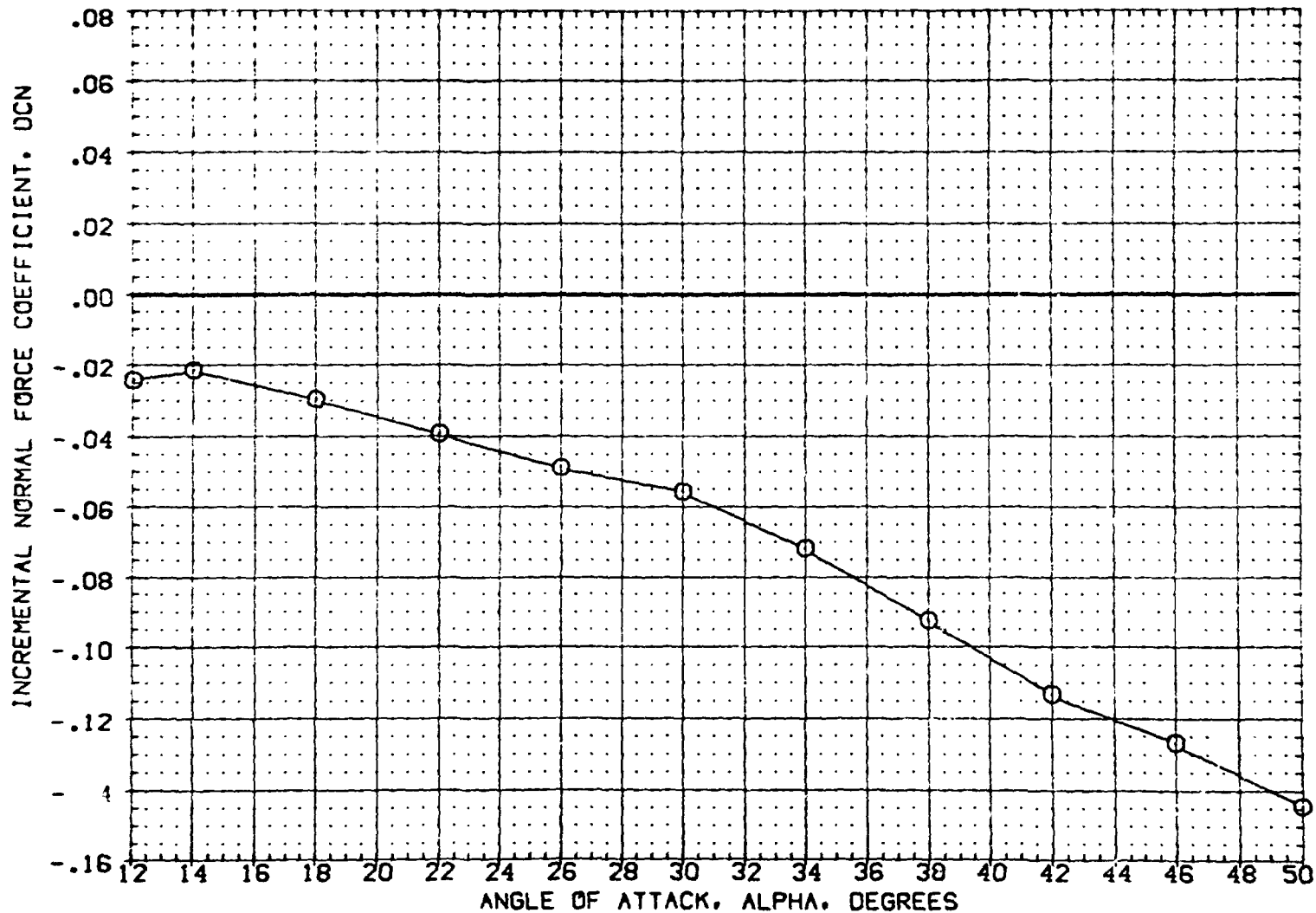


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F3 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP	1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP	1000.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

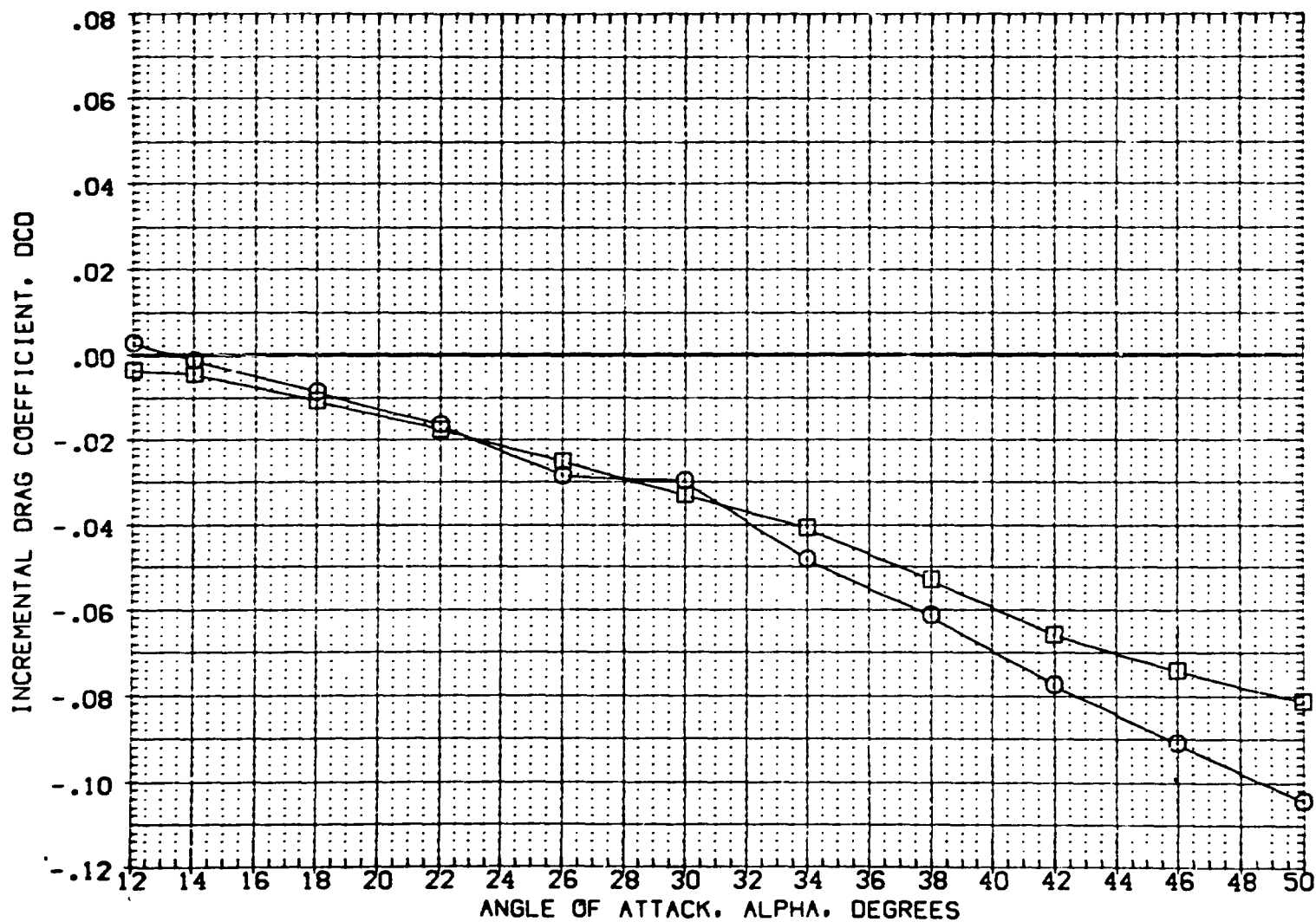


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R3 S7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R3 S7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R3 S7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R3 S7 V107	-10.000	-14.250	55.000	.070	XMRP 1076.4800 IN.
(T86013)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R3 S7 V107	10.000	-14.250	55.000	.000	YMRP 400.0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

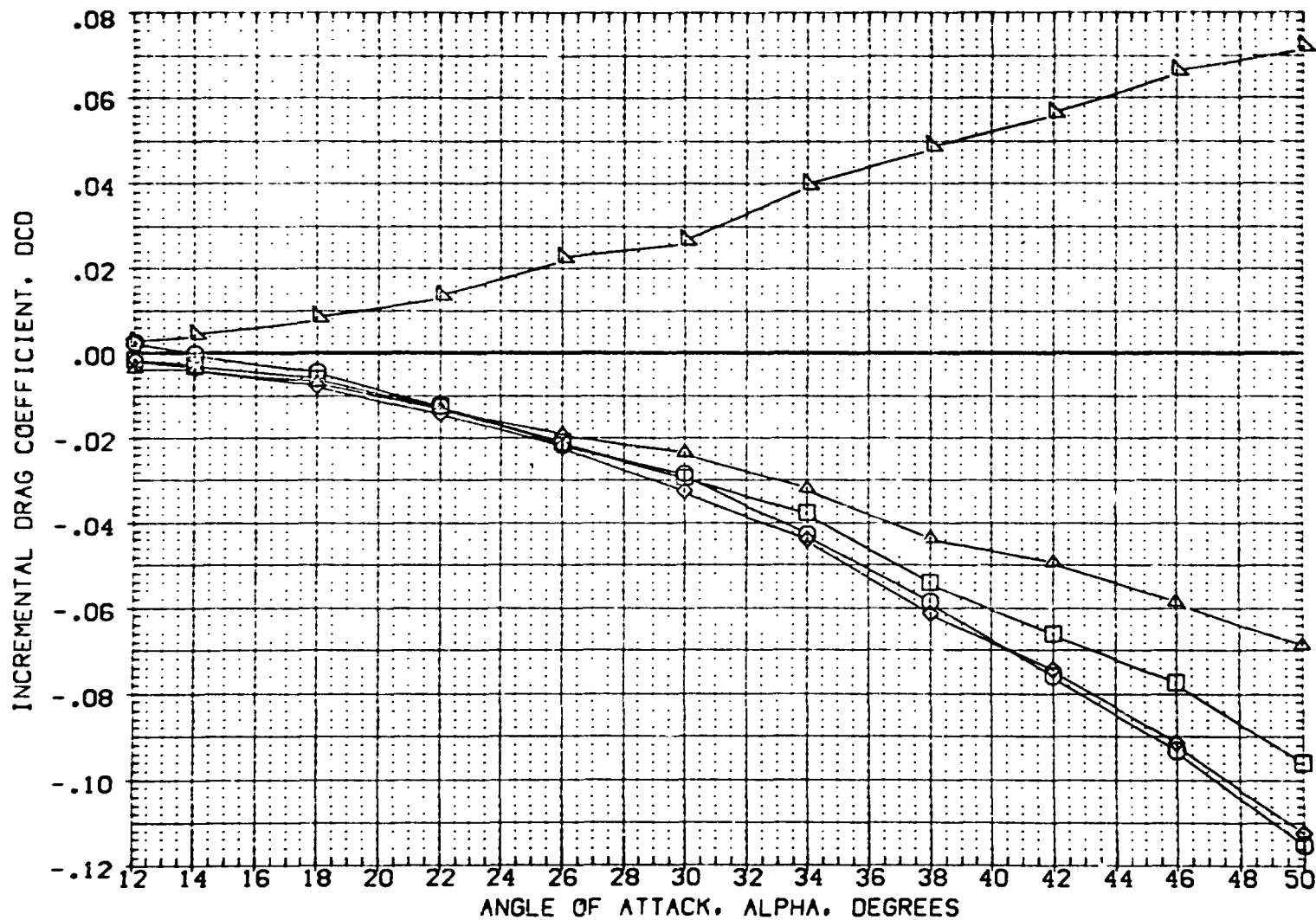


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

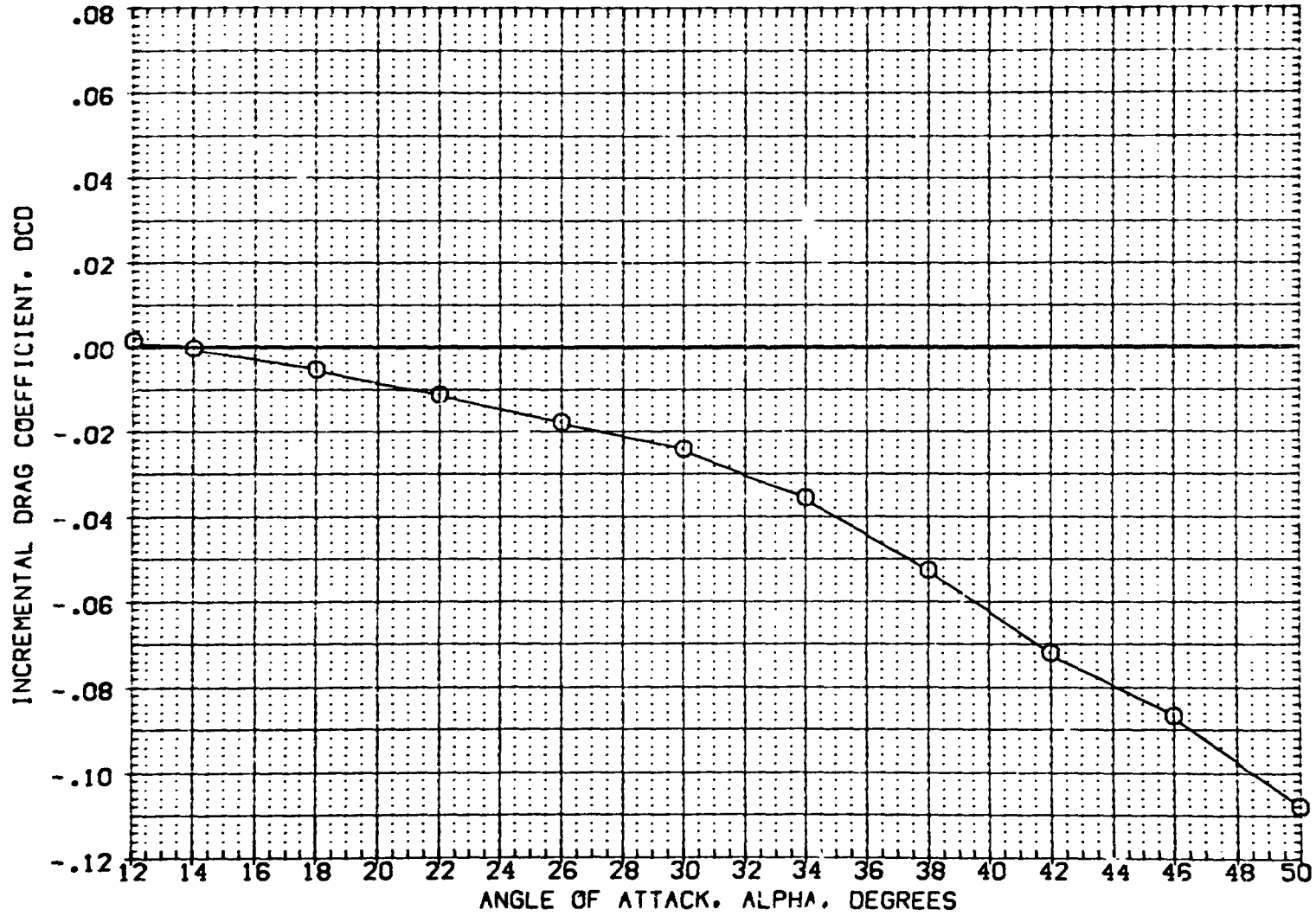


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	○	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	◇	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	△	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	▽	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
							ZMRP 400.0000 IN.
							SCALE .0100 SCALE

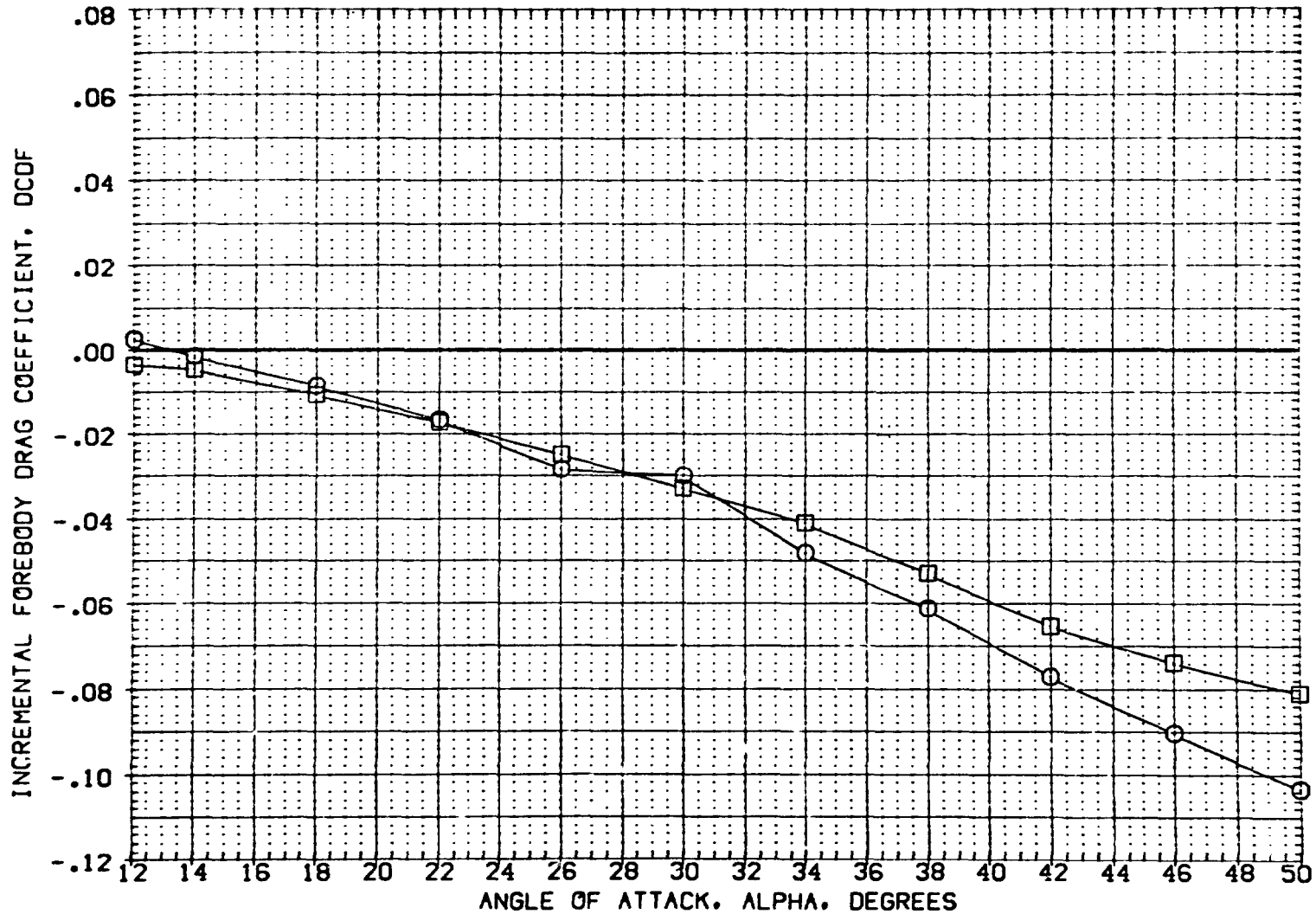


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

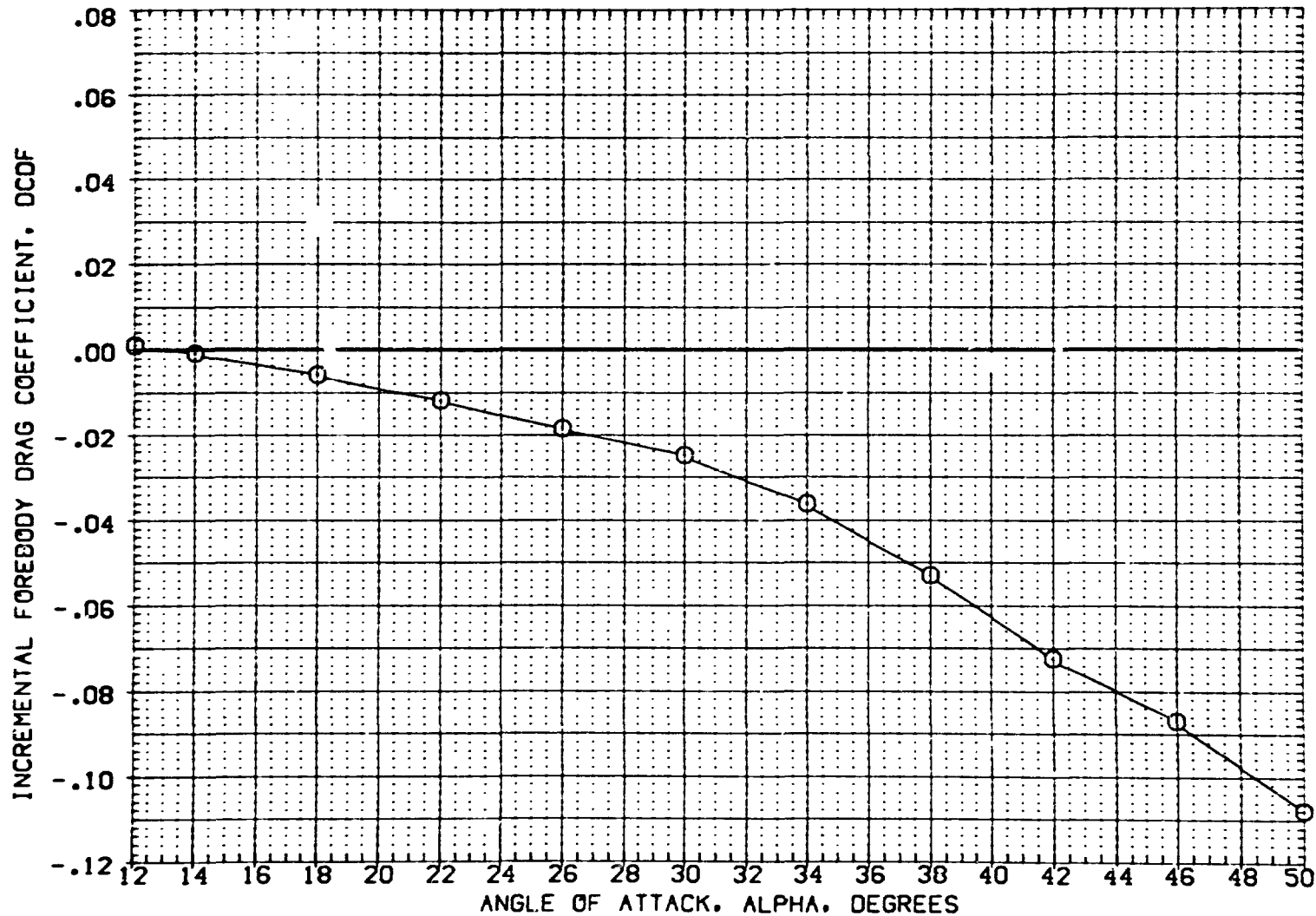


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBO.	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP	1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

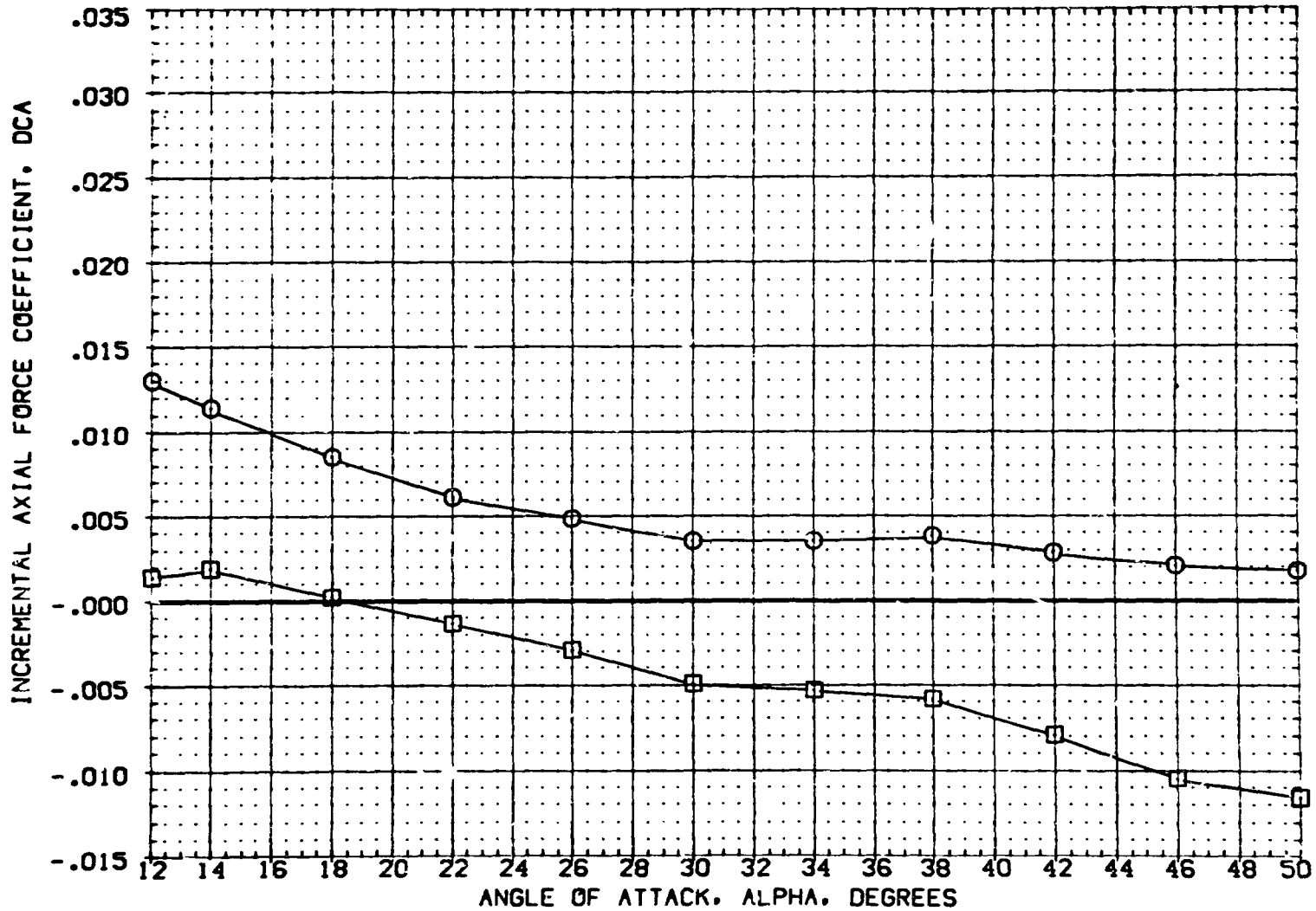


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 019 07 07 07	-20.000	-14.256	000.000	0.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 019 07 07 07	-20.000	-14.256	000.000	0.000	LREF 474.8000 IN.
(T86019)	AMES3.5-168 OA23 019 07 07 07	-20.000	-14.256	000.000	0.000	BREF 936.6800 IN.
(T86021)	AMES3.5-168 OA23 019 07 07 07	-20.000	-14.256	000.000	0.000	XMRP 1076.4800 IN.
(T86013)	AMES3.5-168 OA23 019 07 07 07	-20.000	-14.256	000.000	0.000	YMRP 7000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

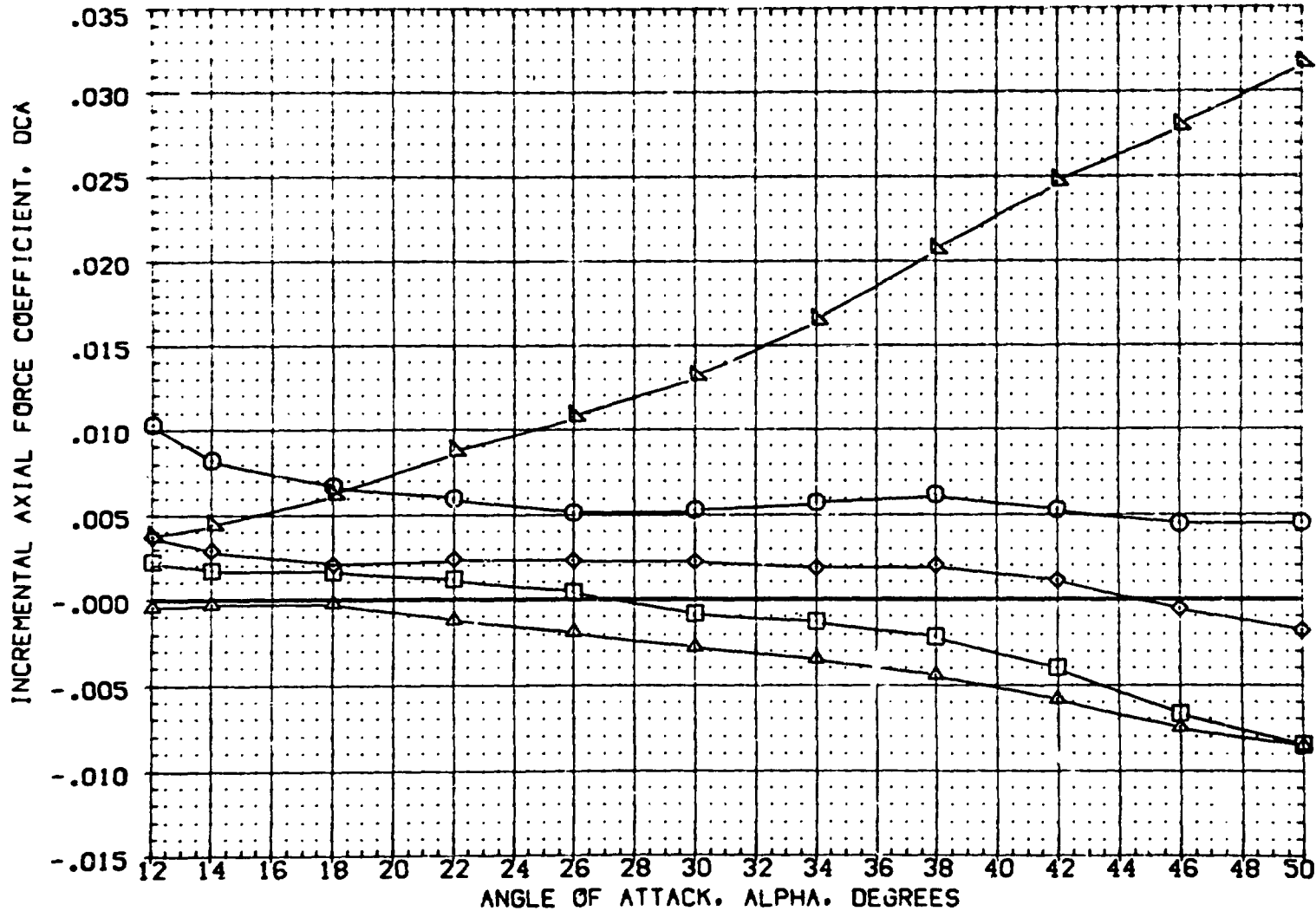


FIG. 7 ELEVON EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 DA23 B19 C7 E23 F5 4 NB R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XHRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0100 SCALE

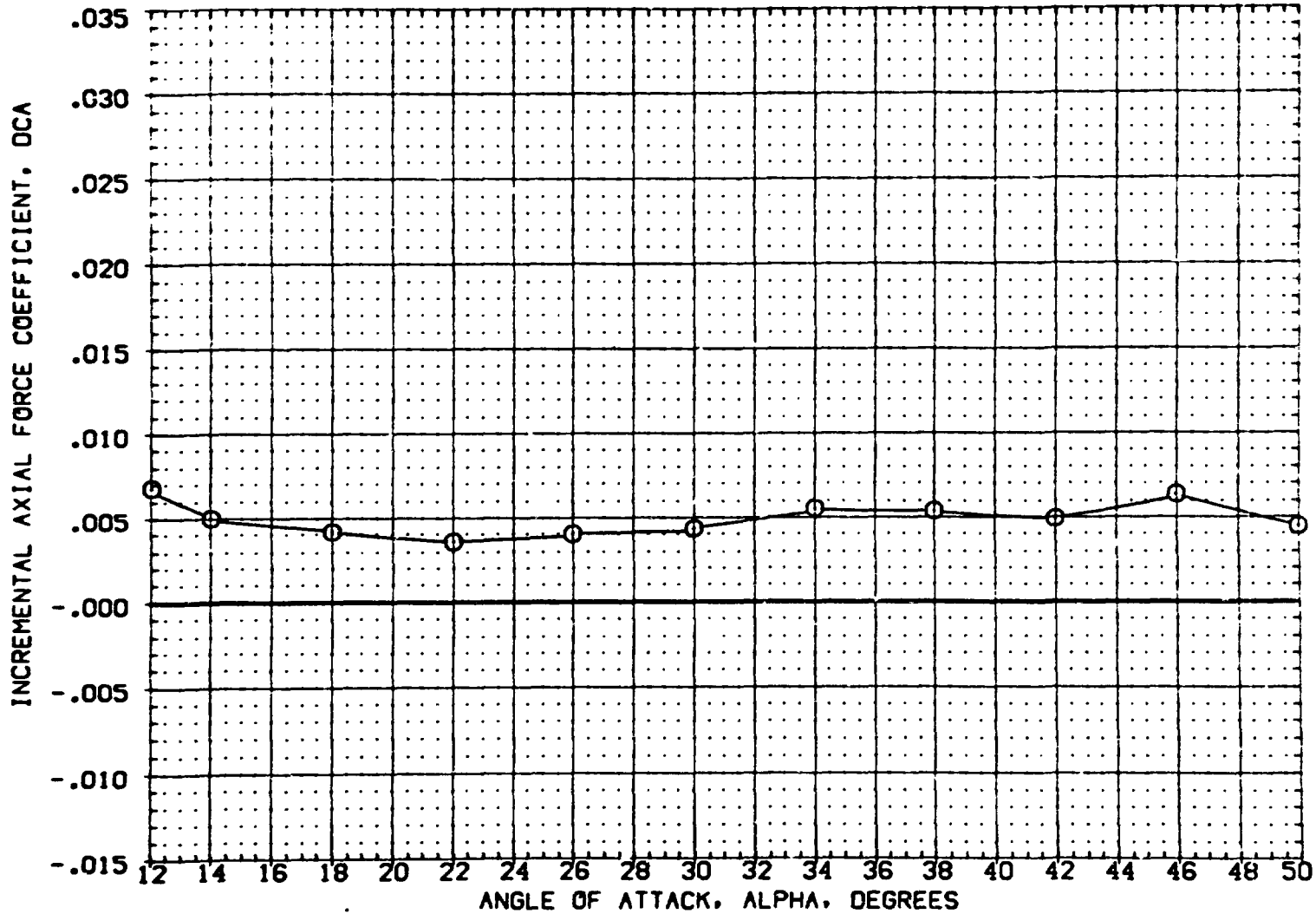


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XHRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YHRP .0000 IN.
						ZHRP 100.0000 IN.
						SCALE .0100 SCALE

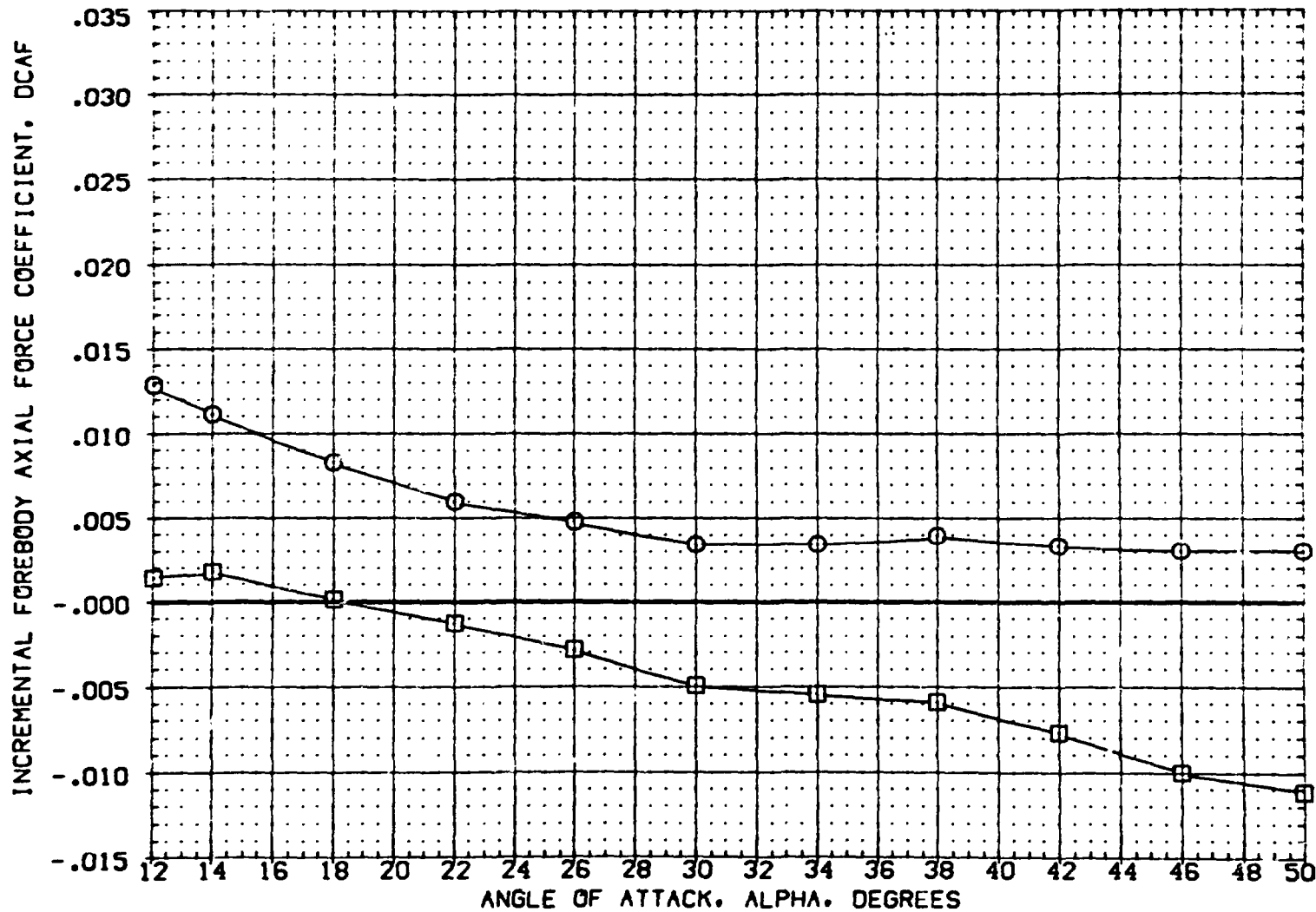


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BOFLAP	SPDBK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 819 C7 E23 FS 24 26 28 30 32 34 36 38 40 42 44 46 48 50	0.000	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 819 C7 E23 FS 24 26 28 30 32 34 36 38 40 42 44 46 48 50	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	AMES3.5-168 OA23 819 C7 E23 FS 24 26 28 30 32 34 36 38 40 42 44 46 48 50	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	AMES3.5-168 OA23 819 C7 E23 FS 24 26 28 30 32 34 36 38 40 42 44 46 48 50	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	AMES3.5-168 OA23 819 C7 E23 FS 24 26 28 30 32 34 36 38 40 42 44 46 48 50	-14.250	55.000	.000	YMRP .0000 IN.
					ZMRP 100.0000 IN.
					SCALE .0100 SCALE

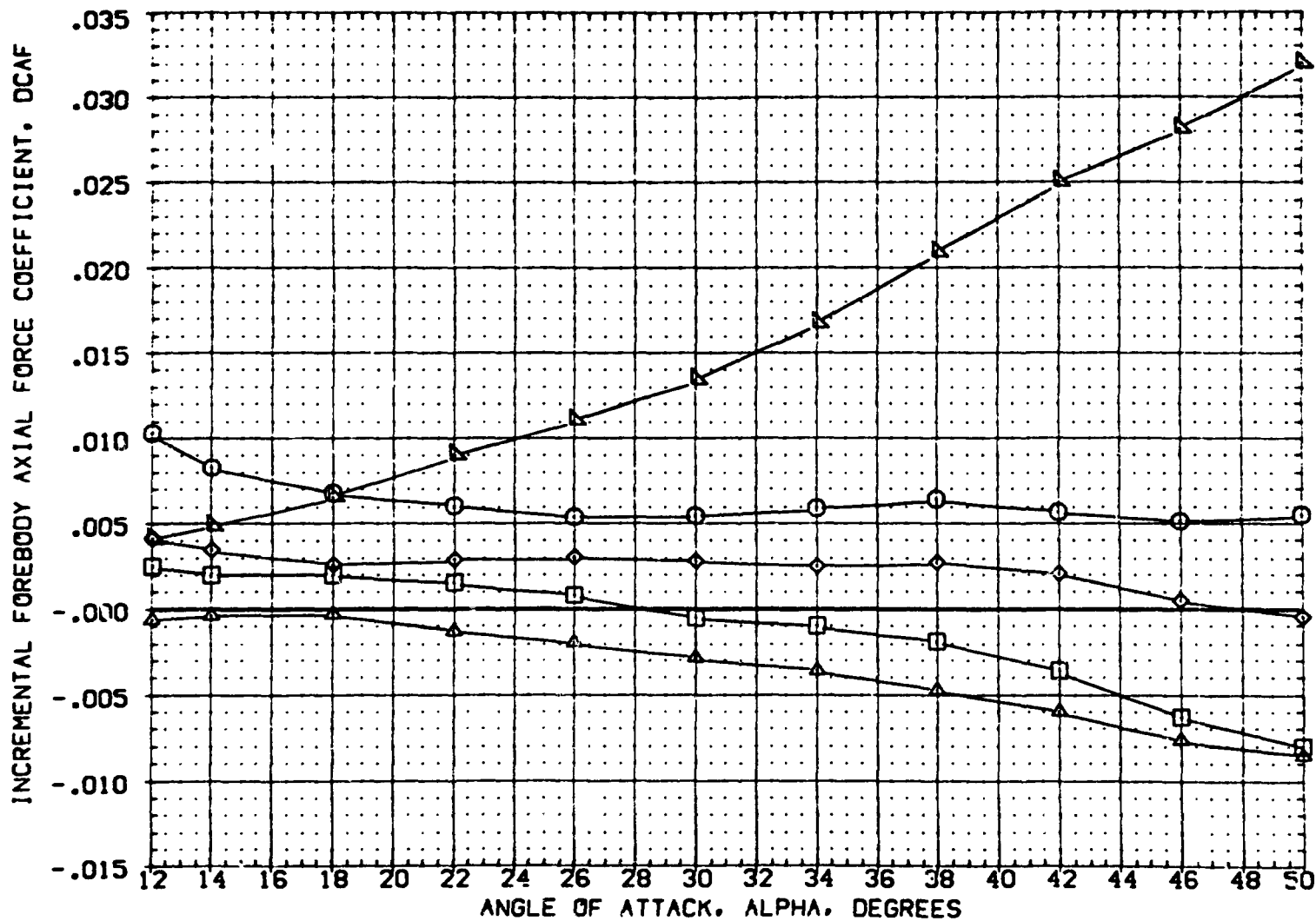


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(T86018)	AMES3.5-168 0A22 B19 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP	1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

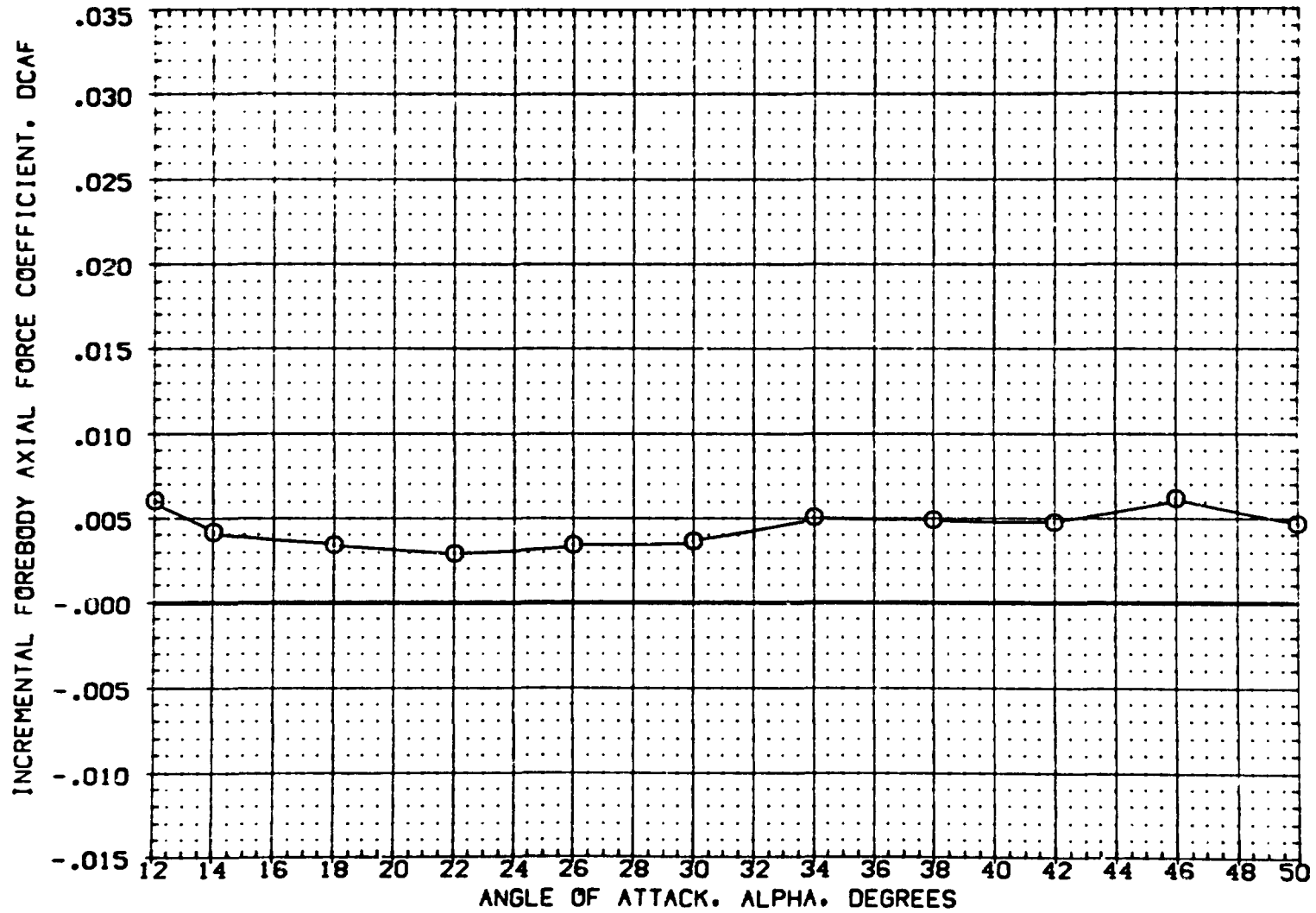


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (C)MACH = 10.20 PAGE 349

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(TB6018)	APES3.5-168 DA23 B19 C7 E23 F3 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(TB6020)	APES3.5-168 DA23 B19 C7 E23 F3 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
(TB6019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800 IN.
(TB6021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP	1076.4800 IN.
(TB6013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

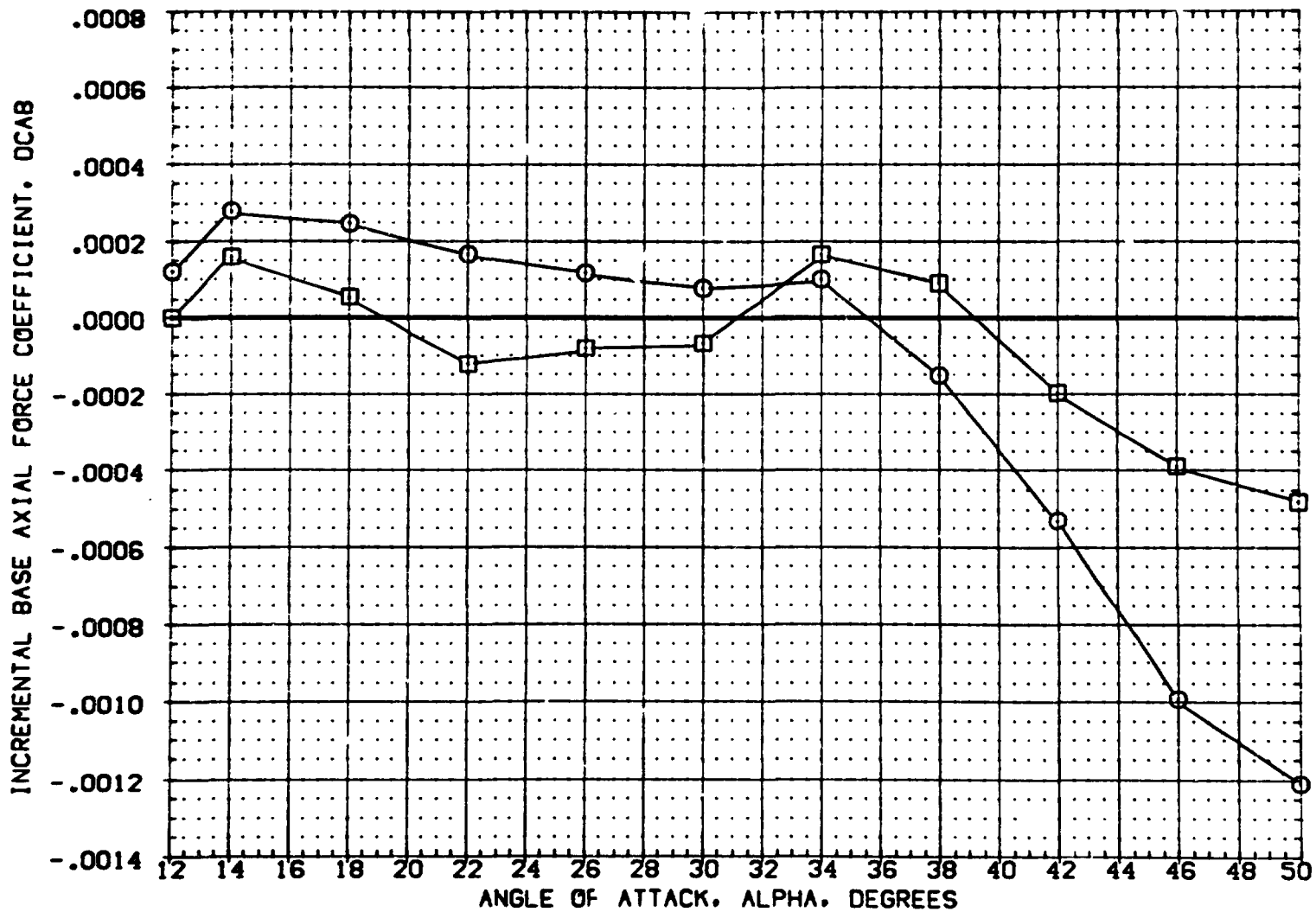


FIG. 7 ELEVON EFFECTS
(A) MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	APES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	APES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	APES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	APES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	APES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	10.000	55.000	.000	YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE	

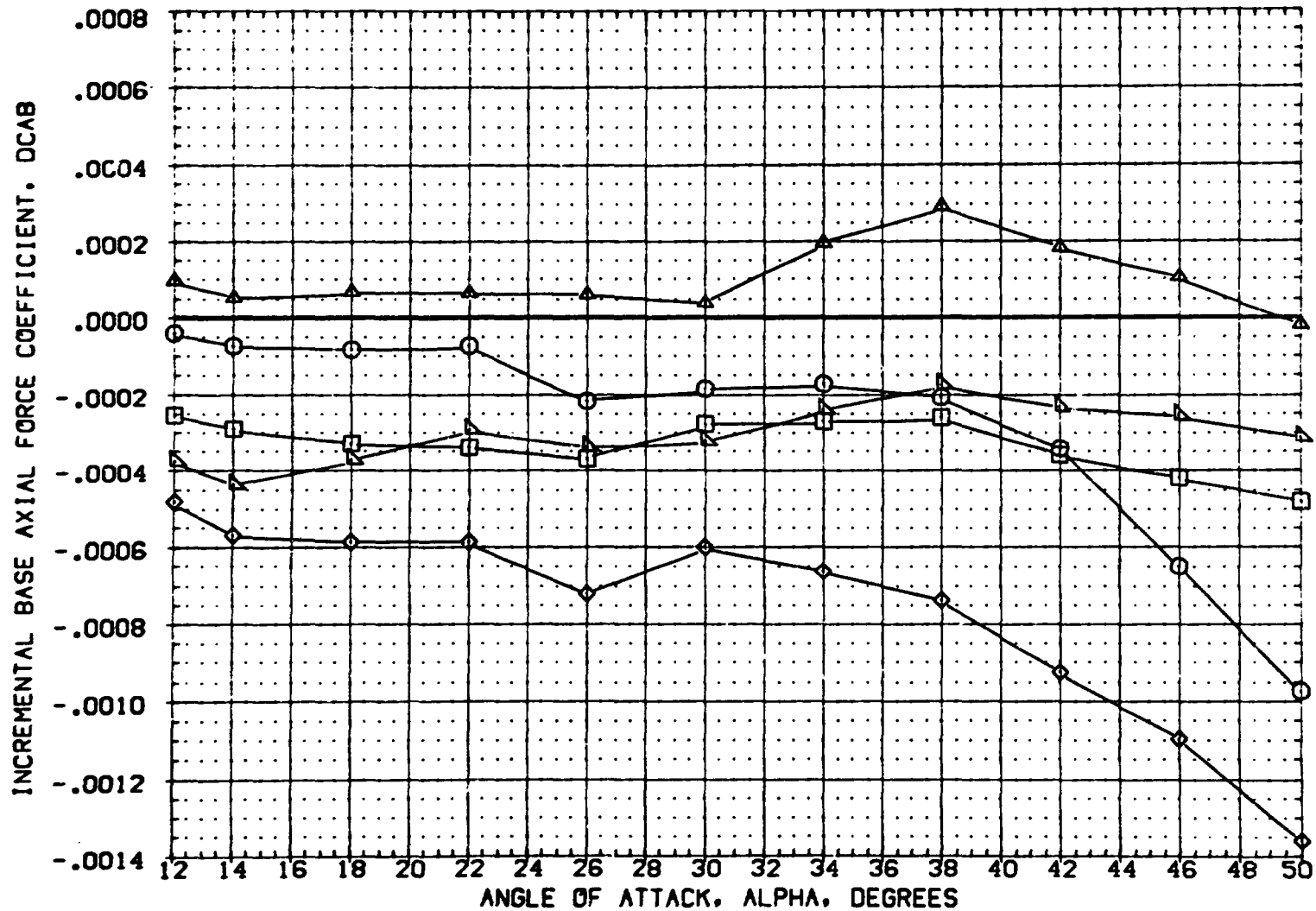


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDGER	REFERENCE INFORMATION	
(T86018)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF	174.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF	936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XHRP	1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YHRP	.0000 IN.
						ZHRP	400.0000 IN.
						SCALE	.0100 SCALE

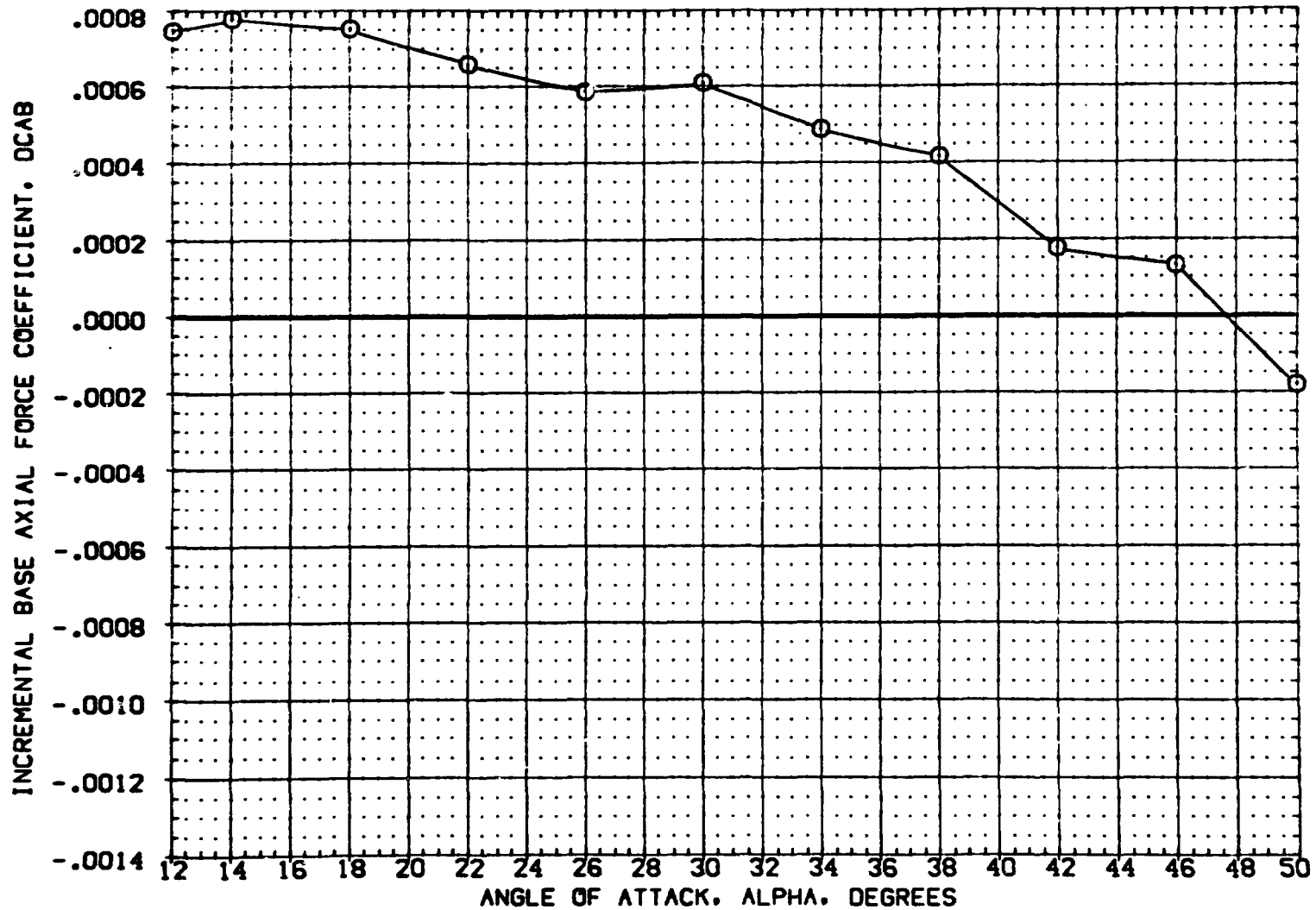


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XTRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YTRP .0000 IN.
						ZTRP 400.0000 IN.
						SCALE .0100 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G., DCMFWD

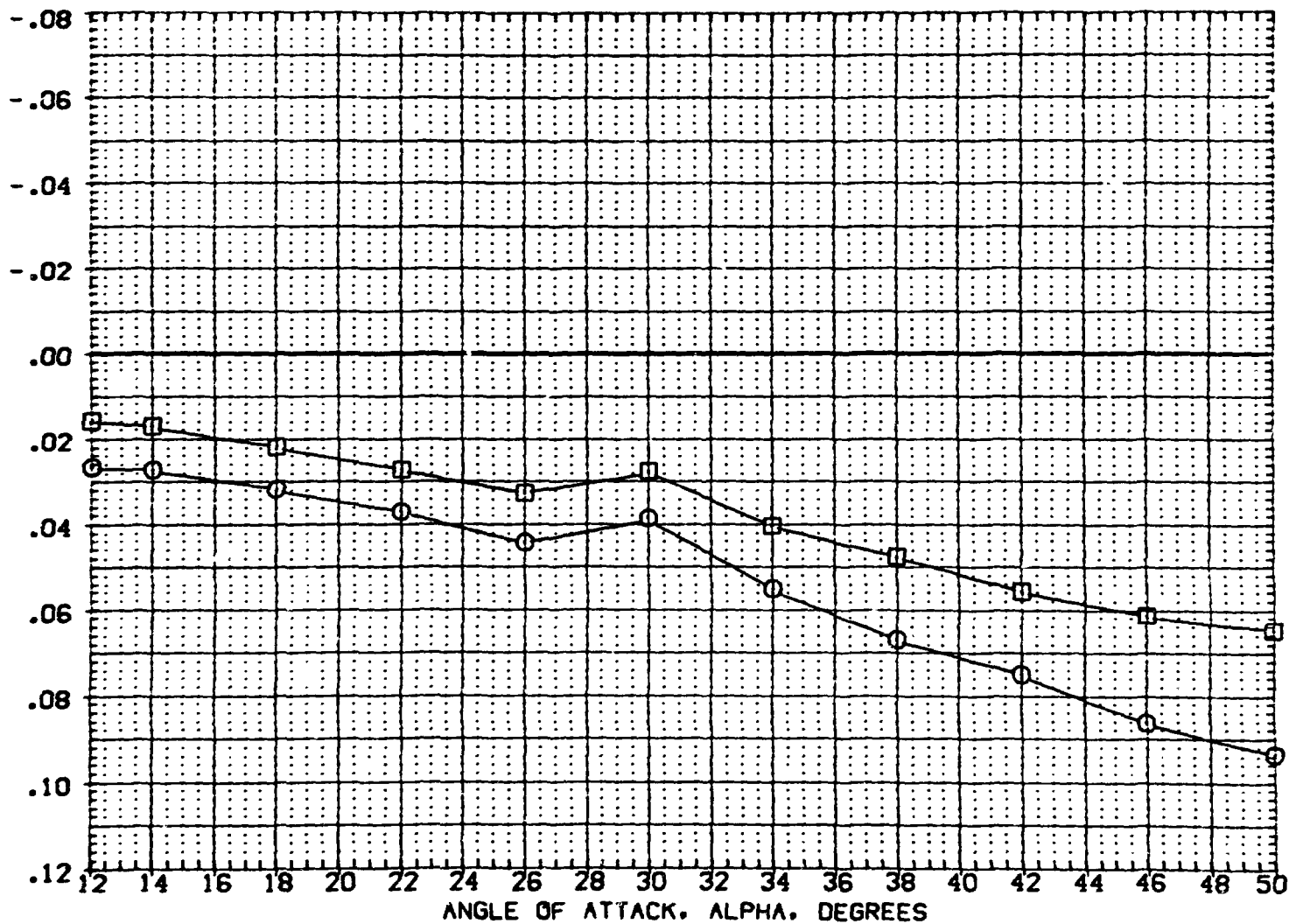


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.750	55.000	.000	SREF 2690.0000 SC.FT.
(TB6020)	DATA NOT AVAILABLE	-20.000	-14.750	55.000	.000	LREF 474.8000 IN.
(TB6019)	DATA NOT AVAILABLE	-30.000	-14.750	55.000	.000	BREF 936.6800 IN.
(TB6021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(TB6013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FOREWARD C.G.. DCMFWD

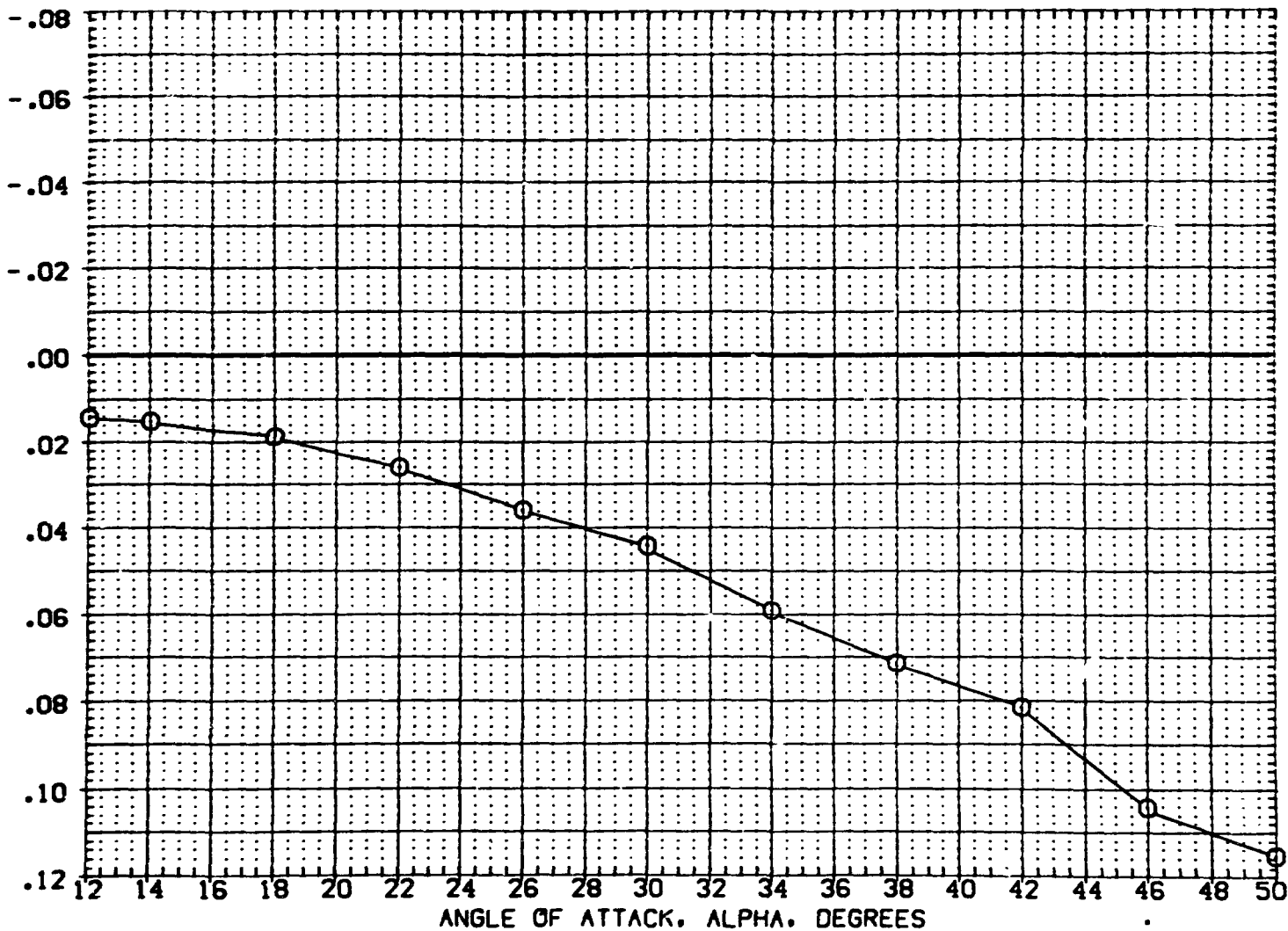


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT AFT C.G. DCMAFT

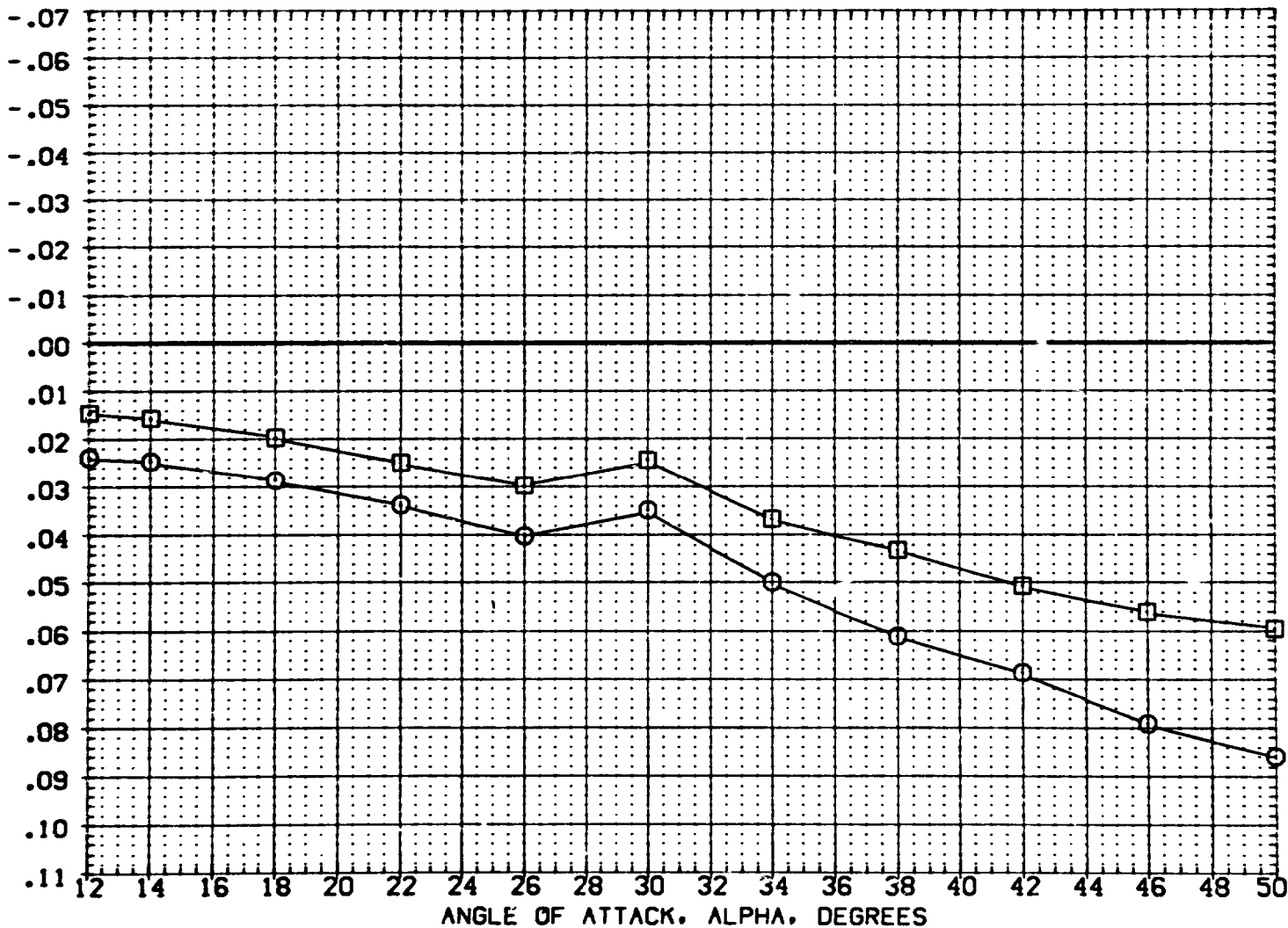


FIG. 7 ELEVON EFFECTS
(A)MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(T86018)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	□	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	10.000	-14.250	55.000	.000	YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE



FIG. 7 ELEVON EFFECTS
 (B)MACH = 7.20
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86018)	AMES3.5-168 CA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86020)	DATA NOT AVAILABLE	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
(T86019)	DATA NOT AVAILABLE	-30.000	-14.250	55.000	.000	BREF 936.6800 IN.
(T86021)	DATA NOT AVAILABLE	-10.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
(T86013)	DATA NOT AVAILABLE	10.000	-14.250	55.000	.000	YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

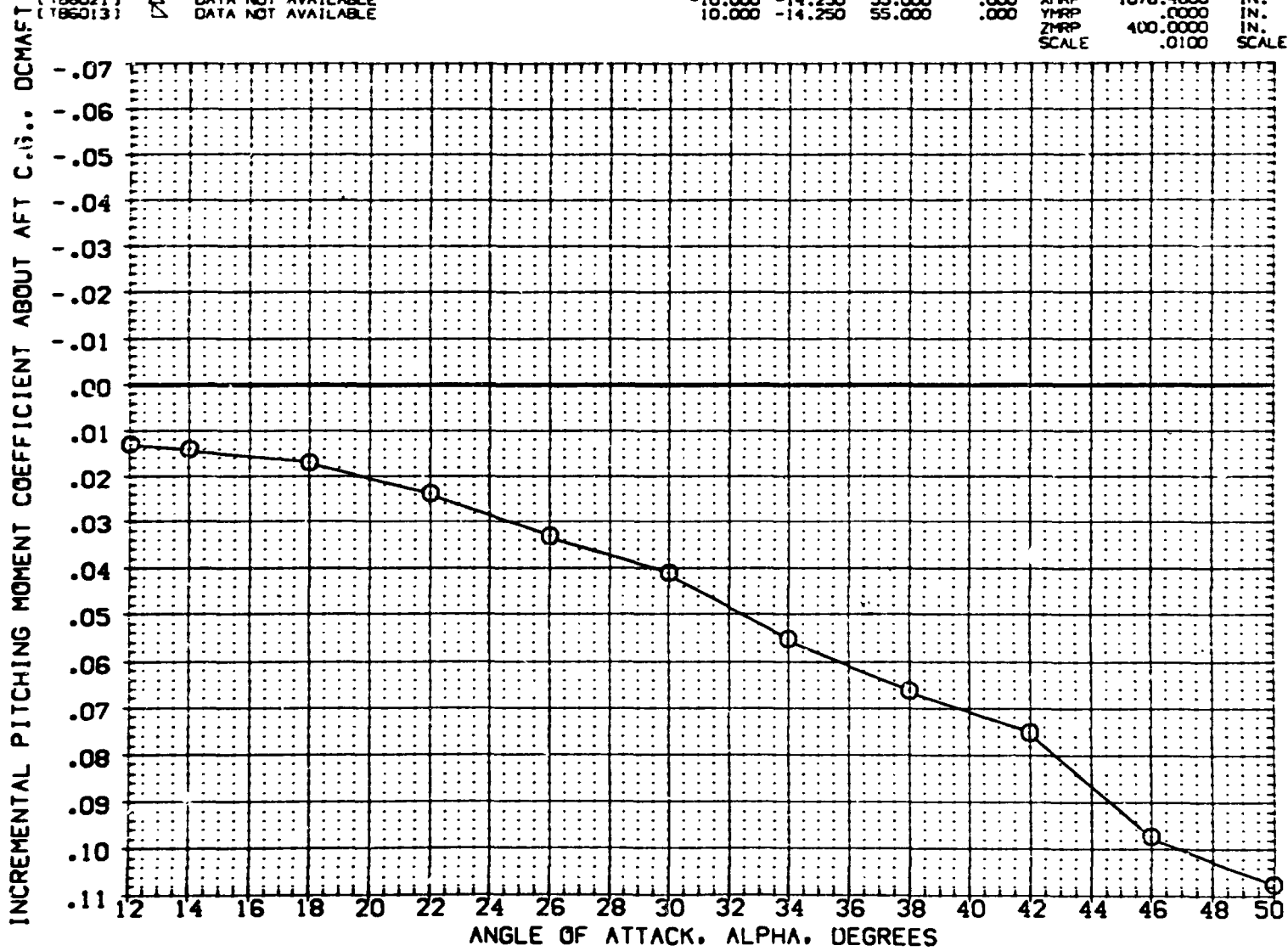


FIG. 7 ELEVON EFFECTS
(C)MACH = 10.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 OA23 B1 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(UB6020)	AMES3.5-168 OA23 B1 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						VHRP 1076.4800 IN.
						YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0100 SCALE

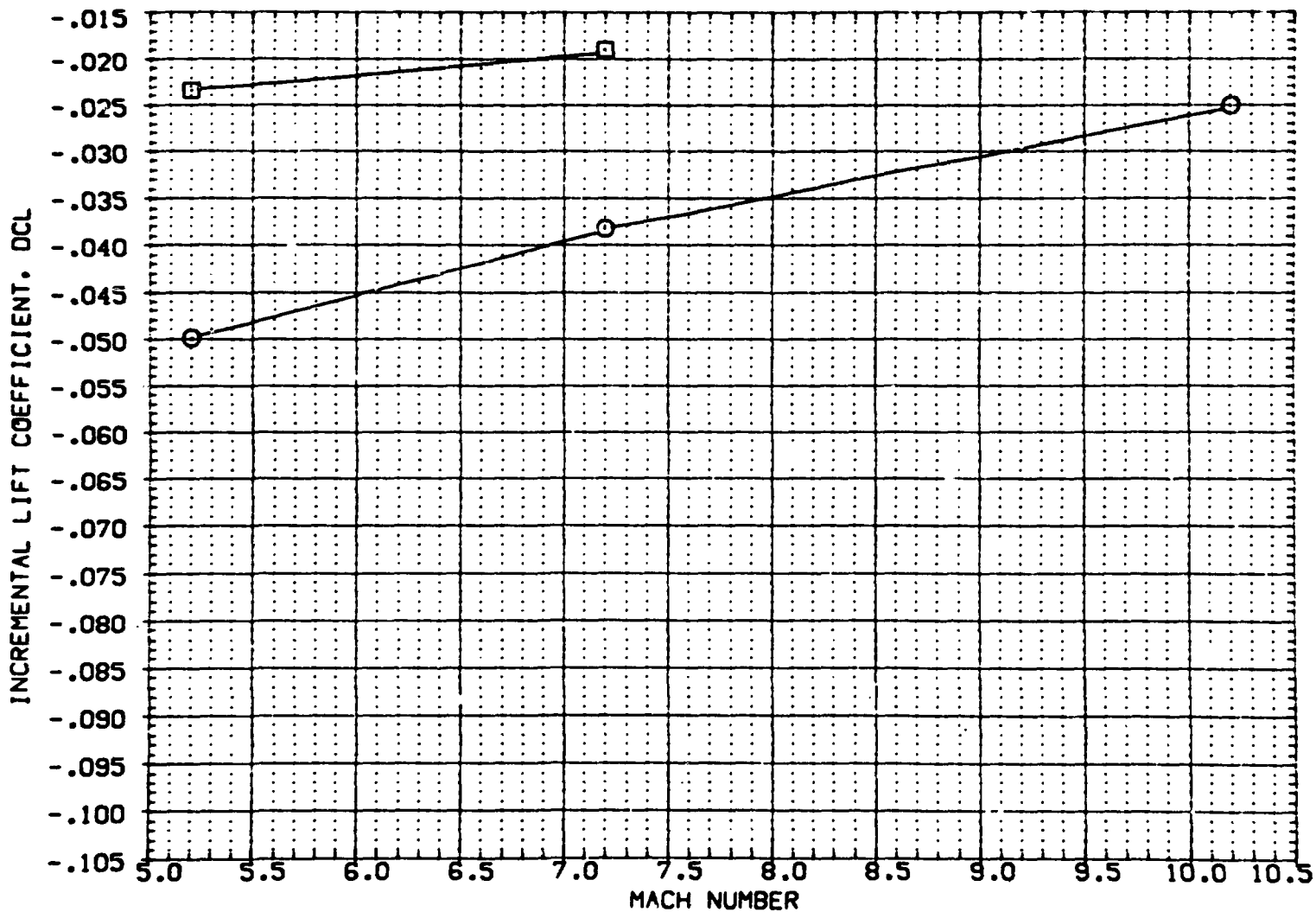


FIG. 7 ELEVON EFFECTS

(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L66018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 S.FT.
(L66020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4600 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

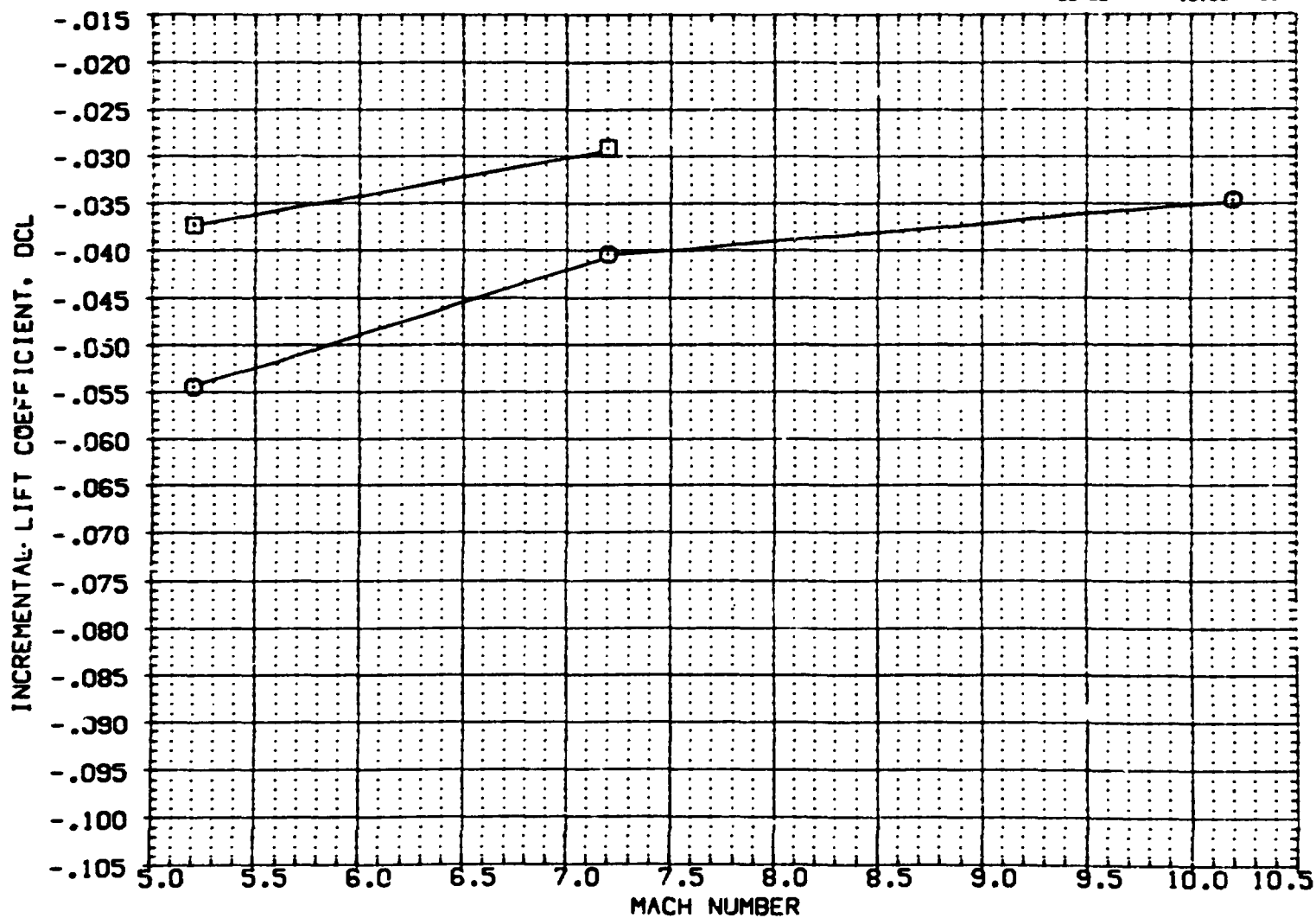


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J66018)	2 AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(J66020)	2 AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

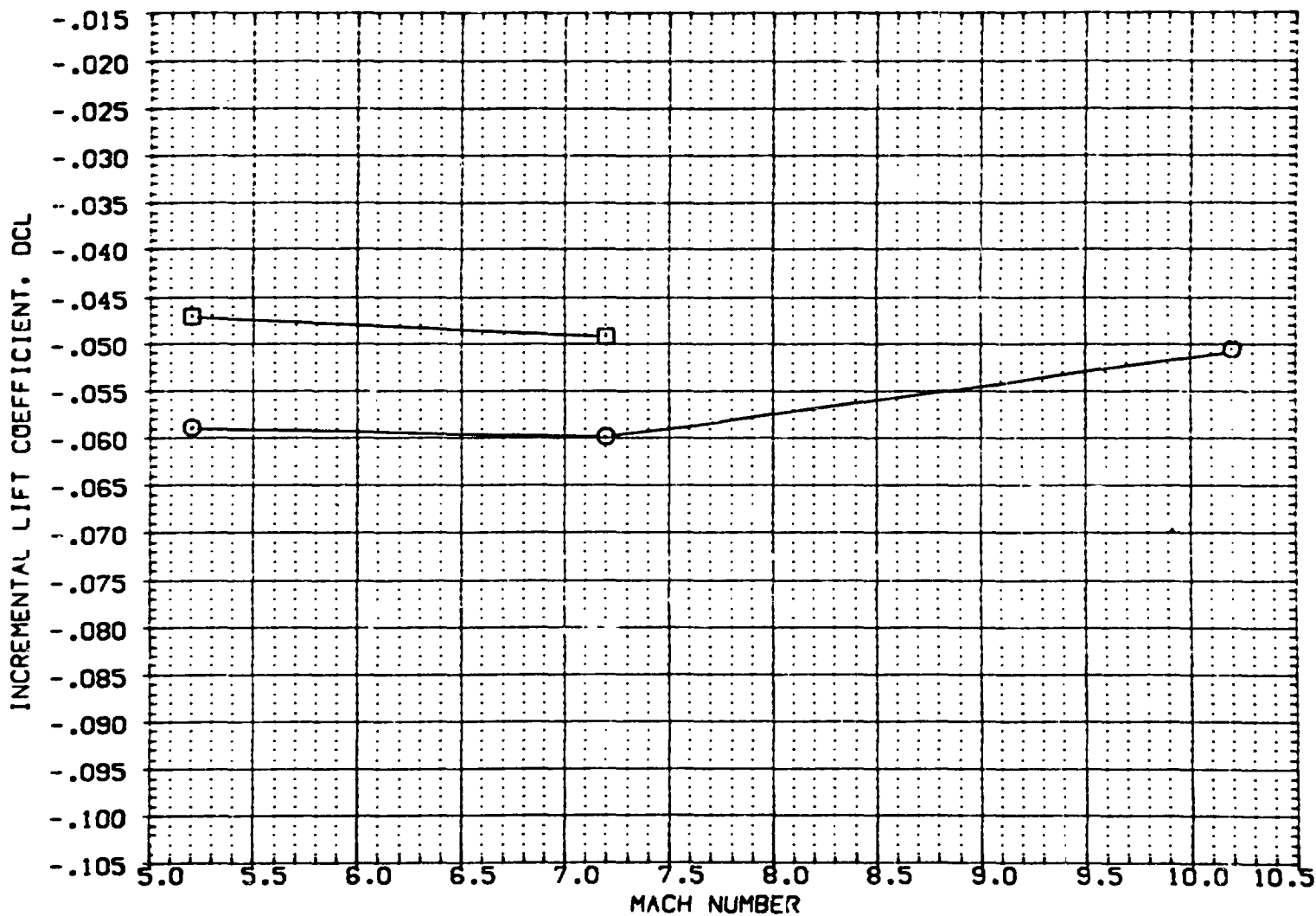


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	□ APES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE
(UB6020)	○ APES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

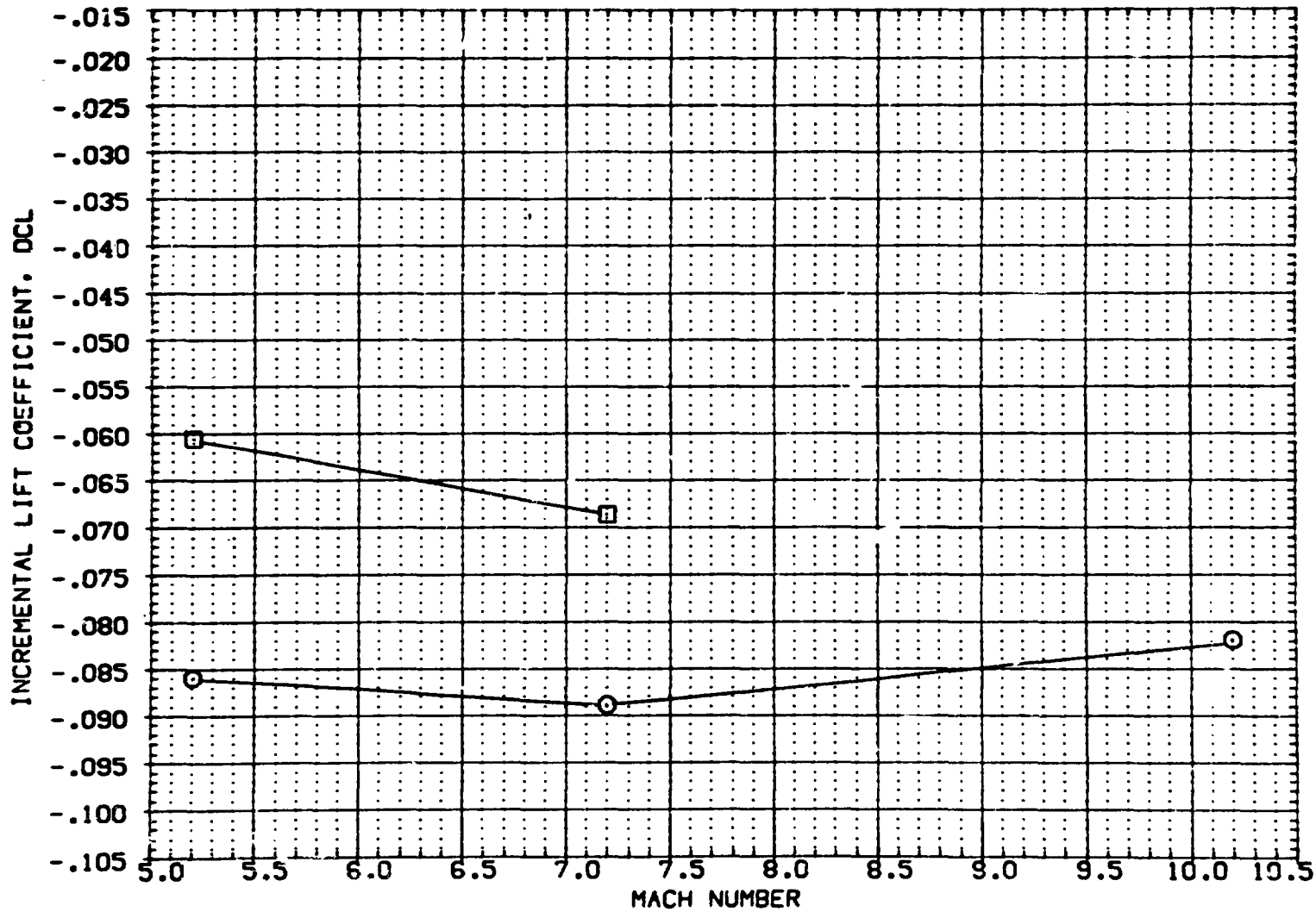


FIG. 7 ELEVON EFFECTS
(O) ALPHA = 40.00

1398 CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2630.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(LB6020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

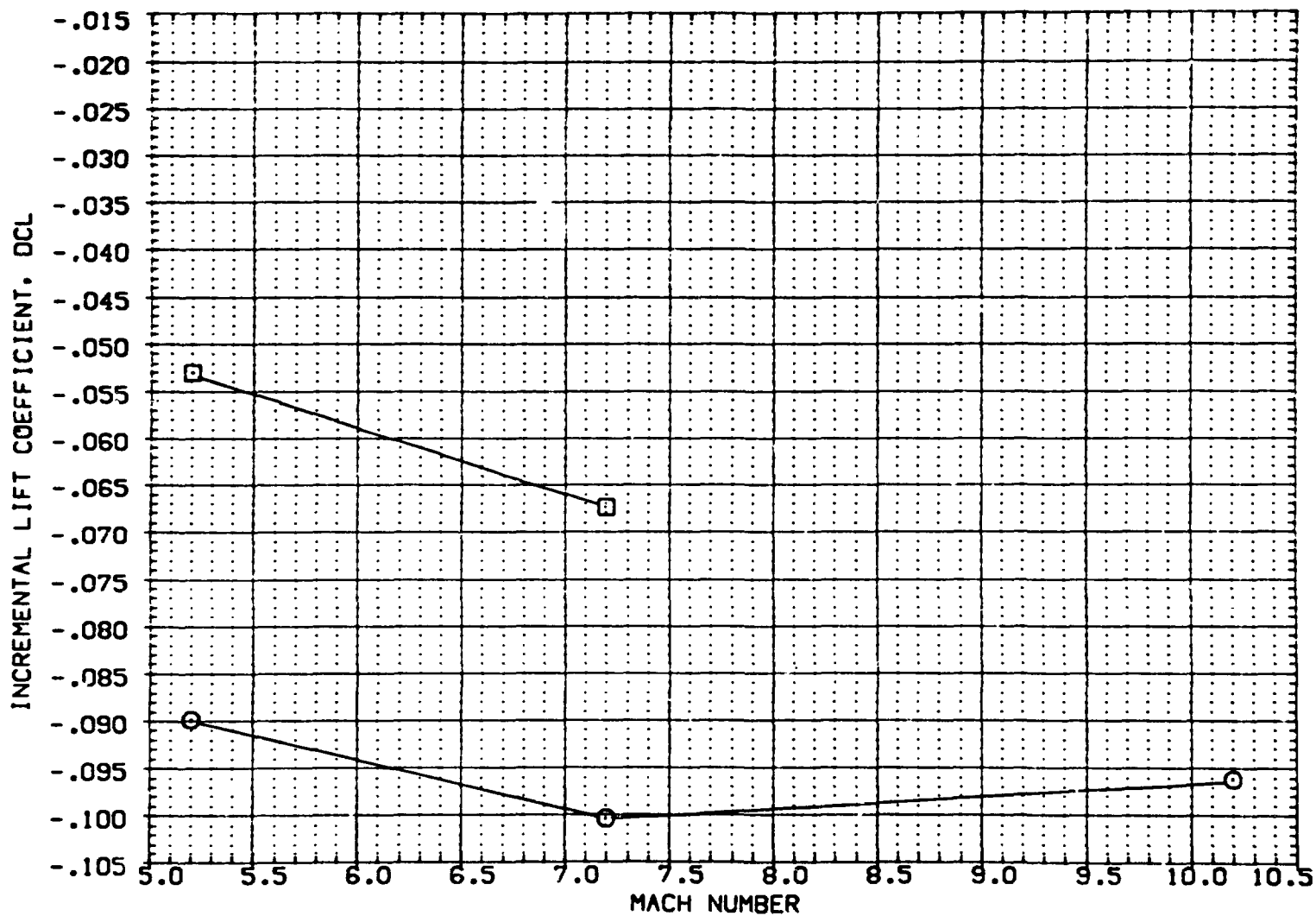


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 R5 V7 V107	-40.000		55.000	.000	SREF 2680.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XFRP 1076.4800 IN. YFRP .0000 IN. ZFRP 400.0000 IN. SCALE .0100 SCALE
(LB6020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	

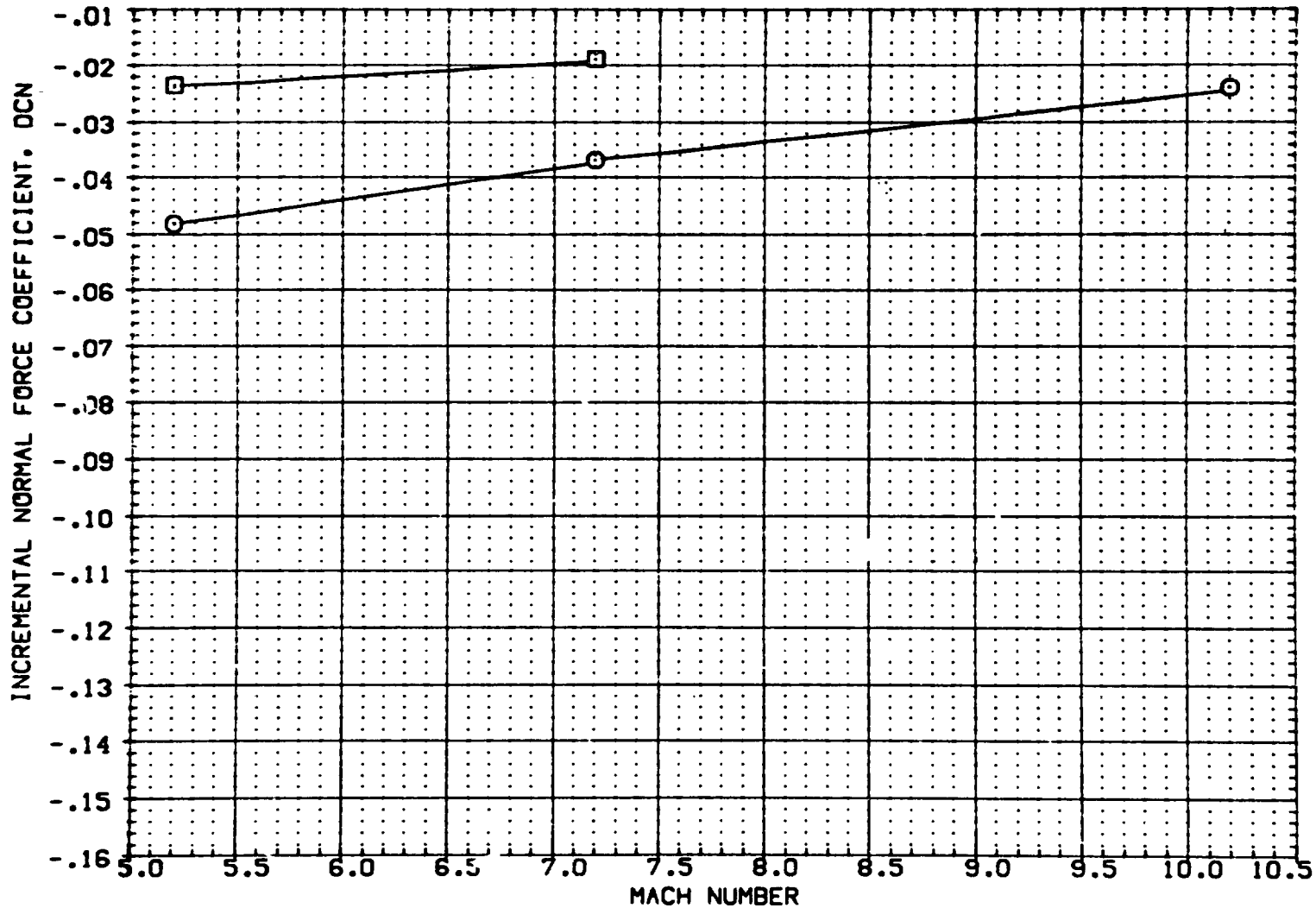


FIG. 7 ELFVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	□ AMES3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6500 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020)	○ AMES3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

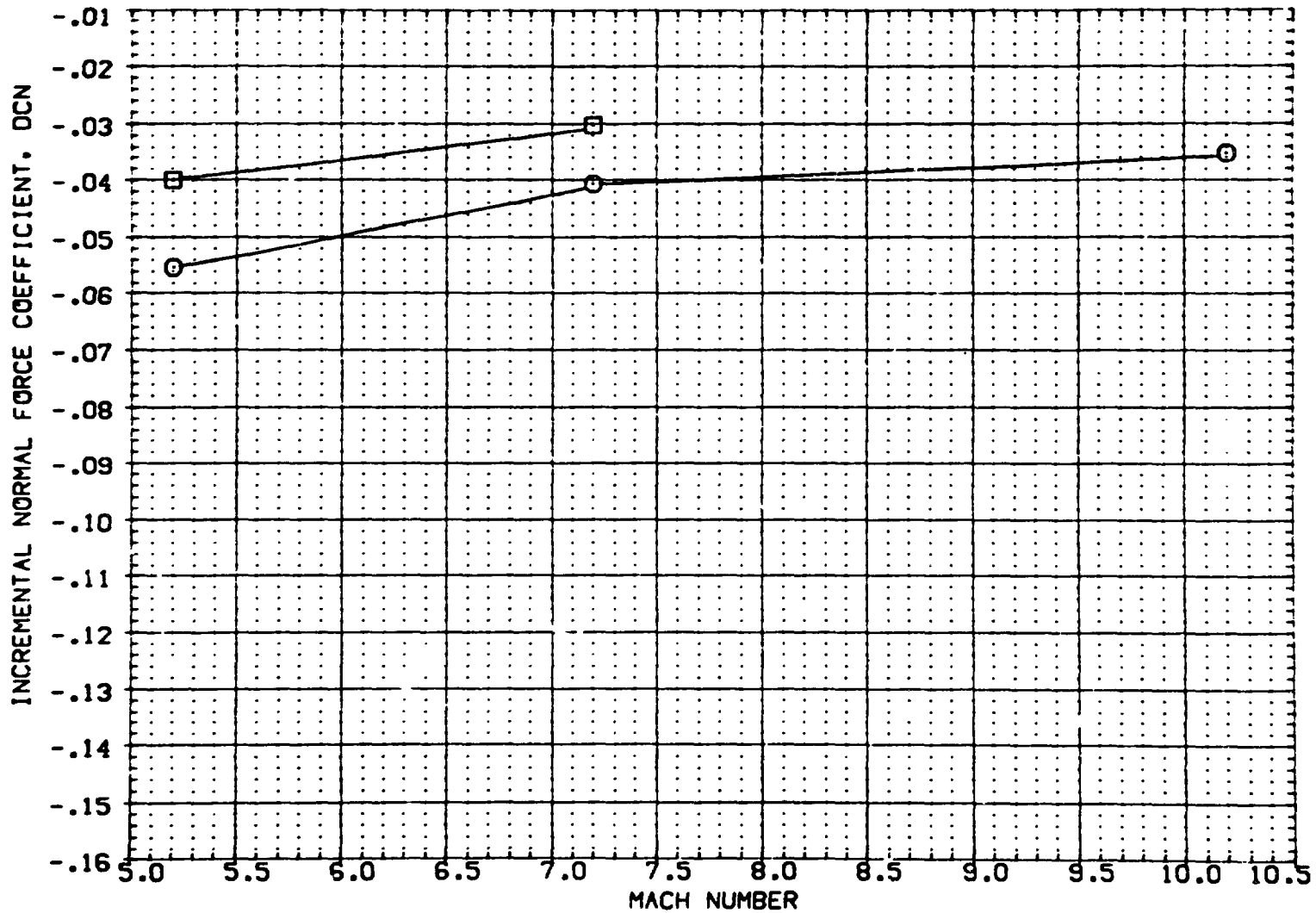


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B) ALPHA = 20.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(L66018)	AMES3.5-168 GA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L66020)	AMES3.5-168 GA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-20.000	-14.250	55.000	.000	

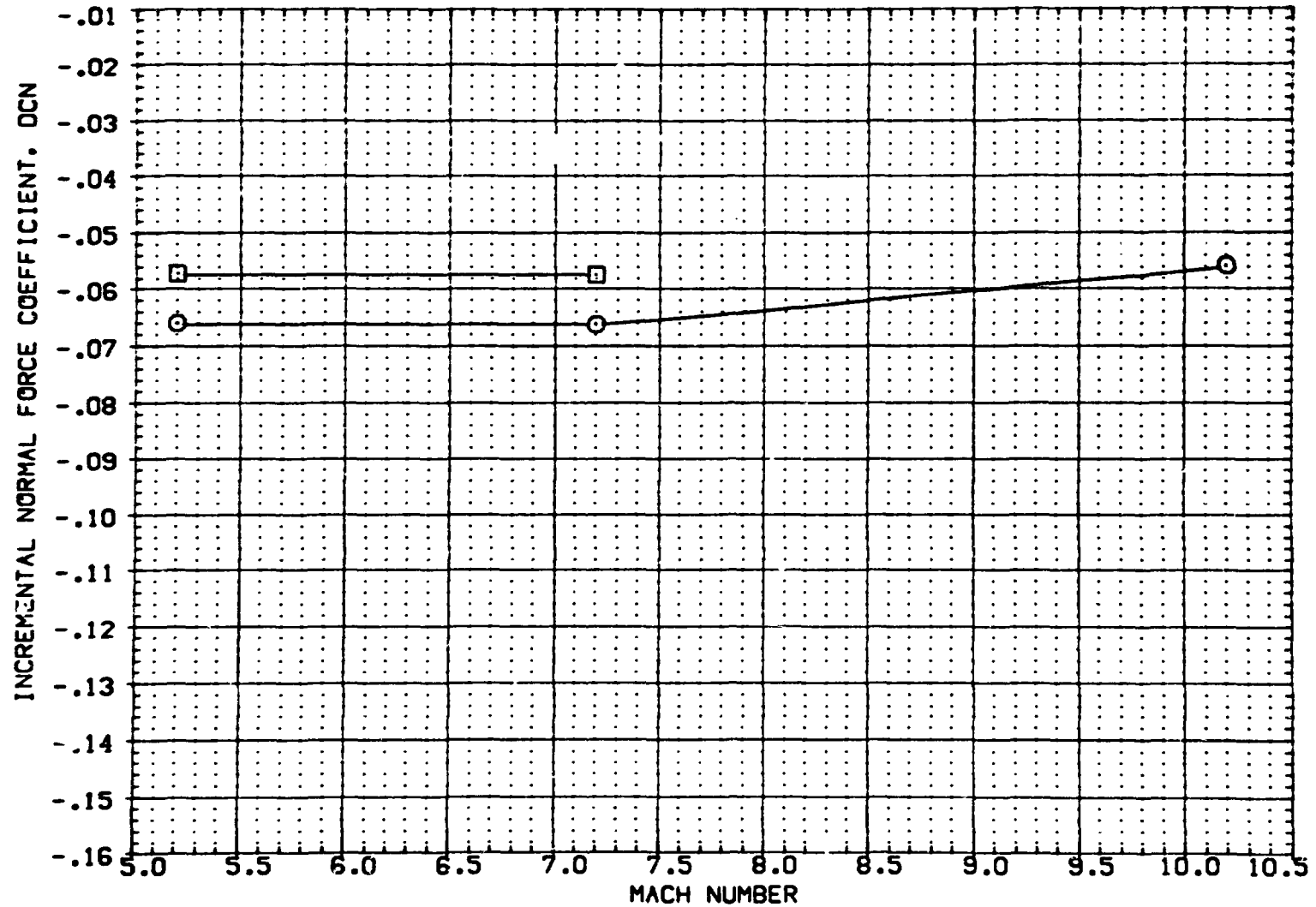


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
[UB6018]	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
[JB6C20]	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

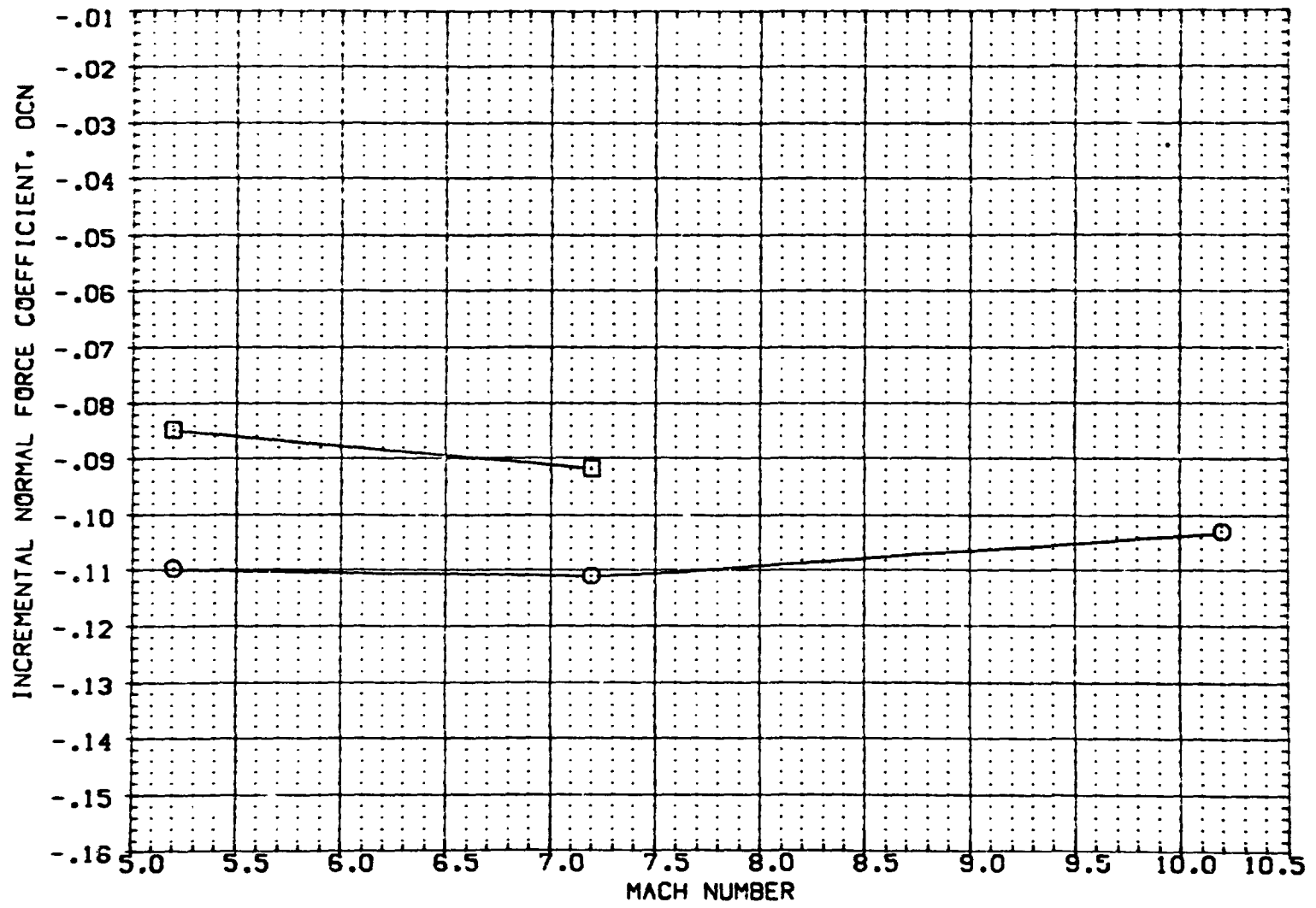


FIG. 7 ELEVON EFFECTS
 139B CONFIGURATION (0.010-SCALE).
 (O) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	□ AMES3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(L86020)	□ AMFS3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

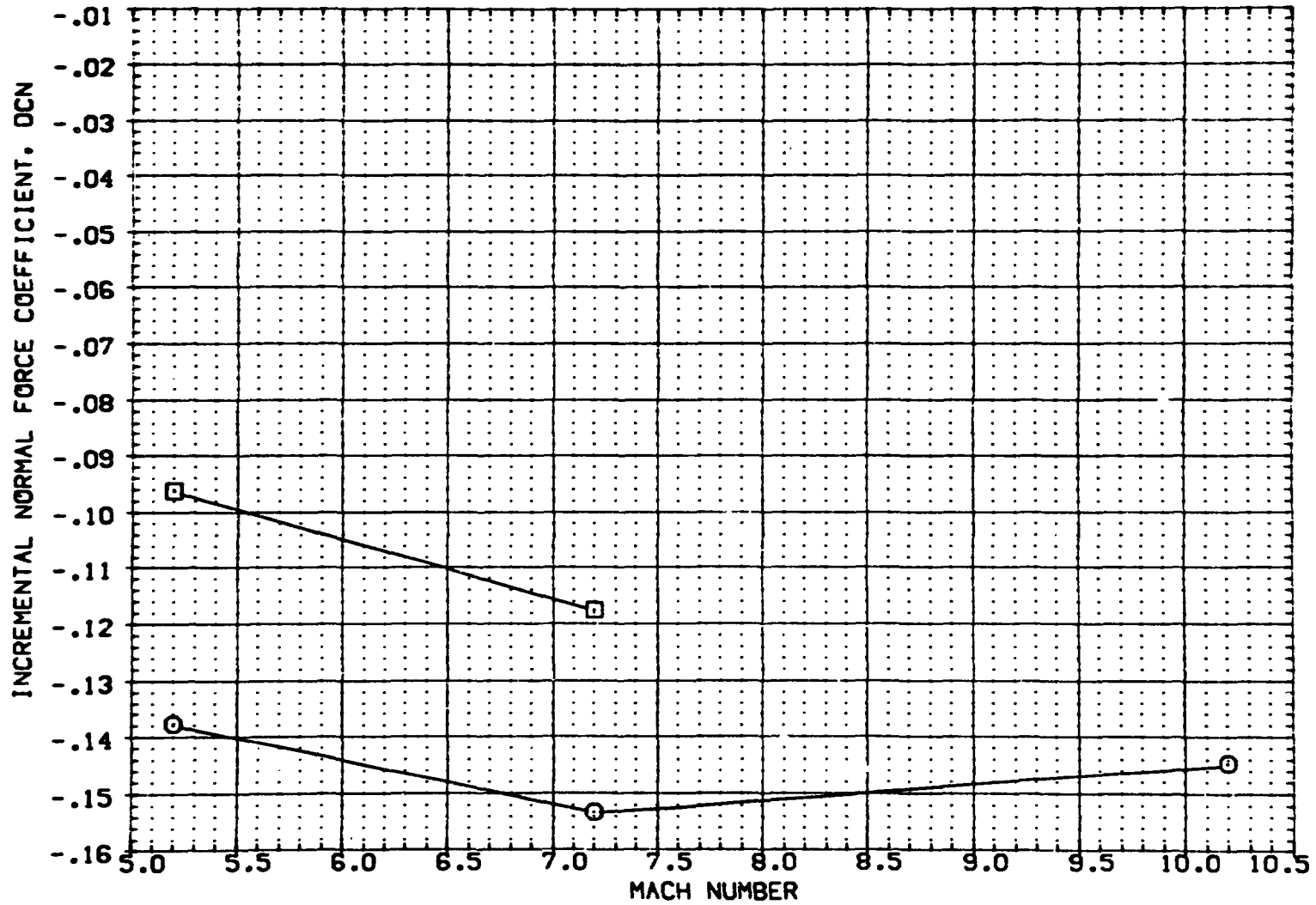


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	○ AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6020)	□ AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

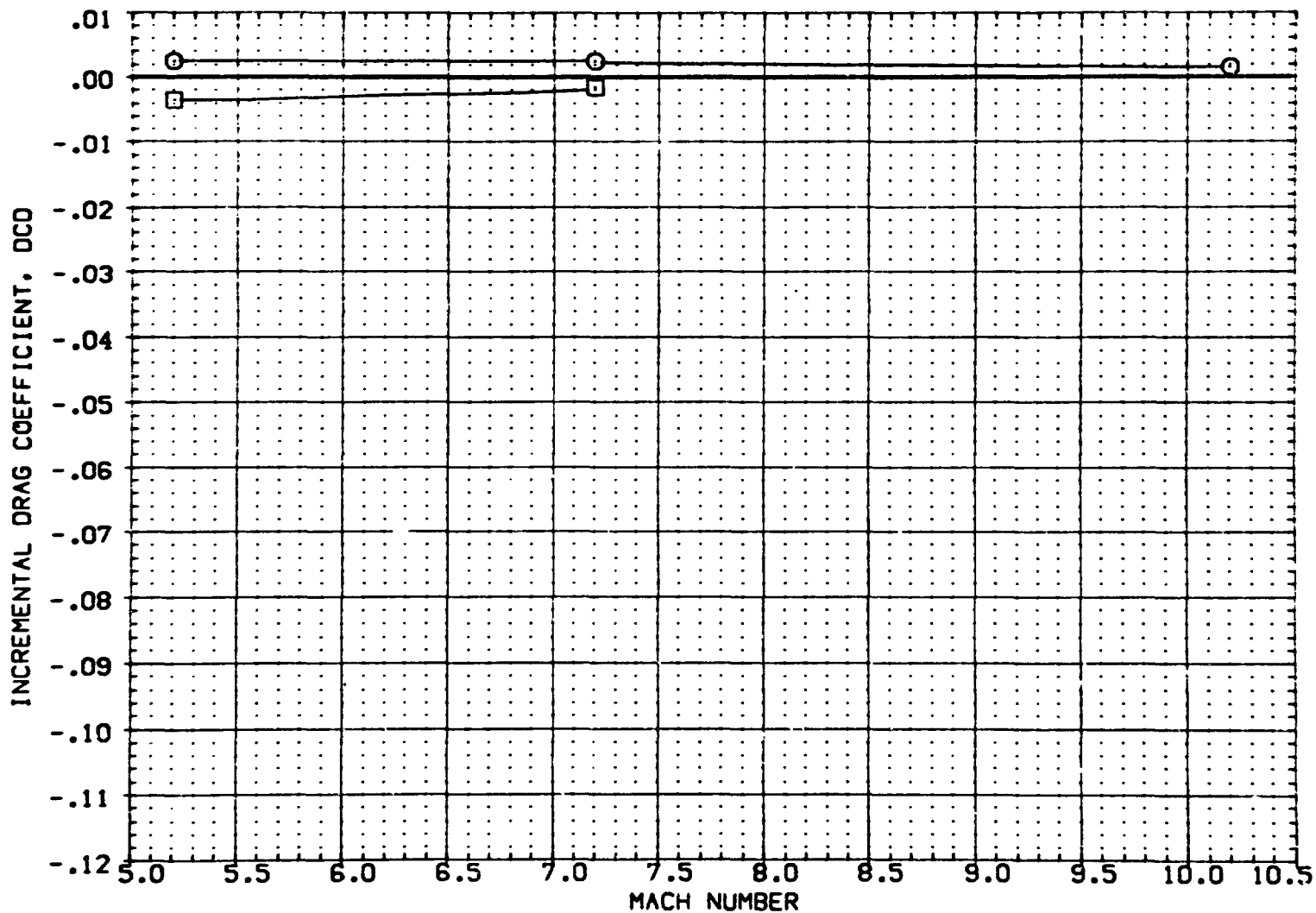


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

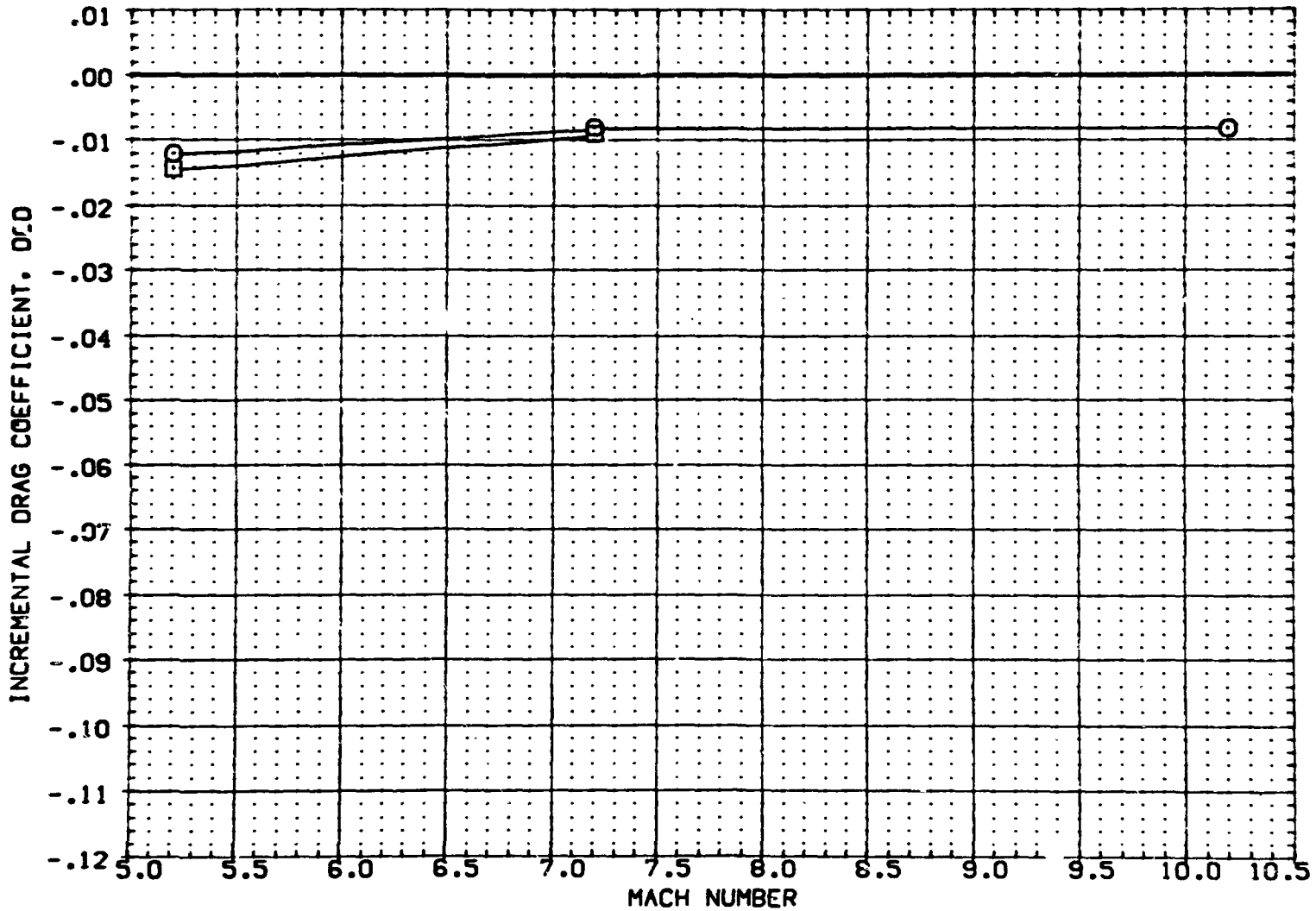


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN.
(J86020)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

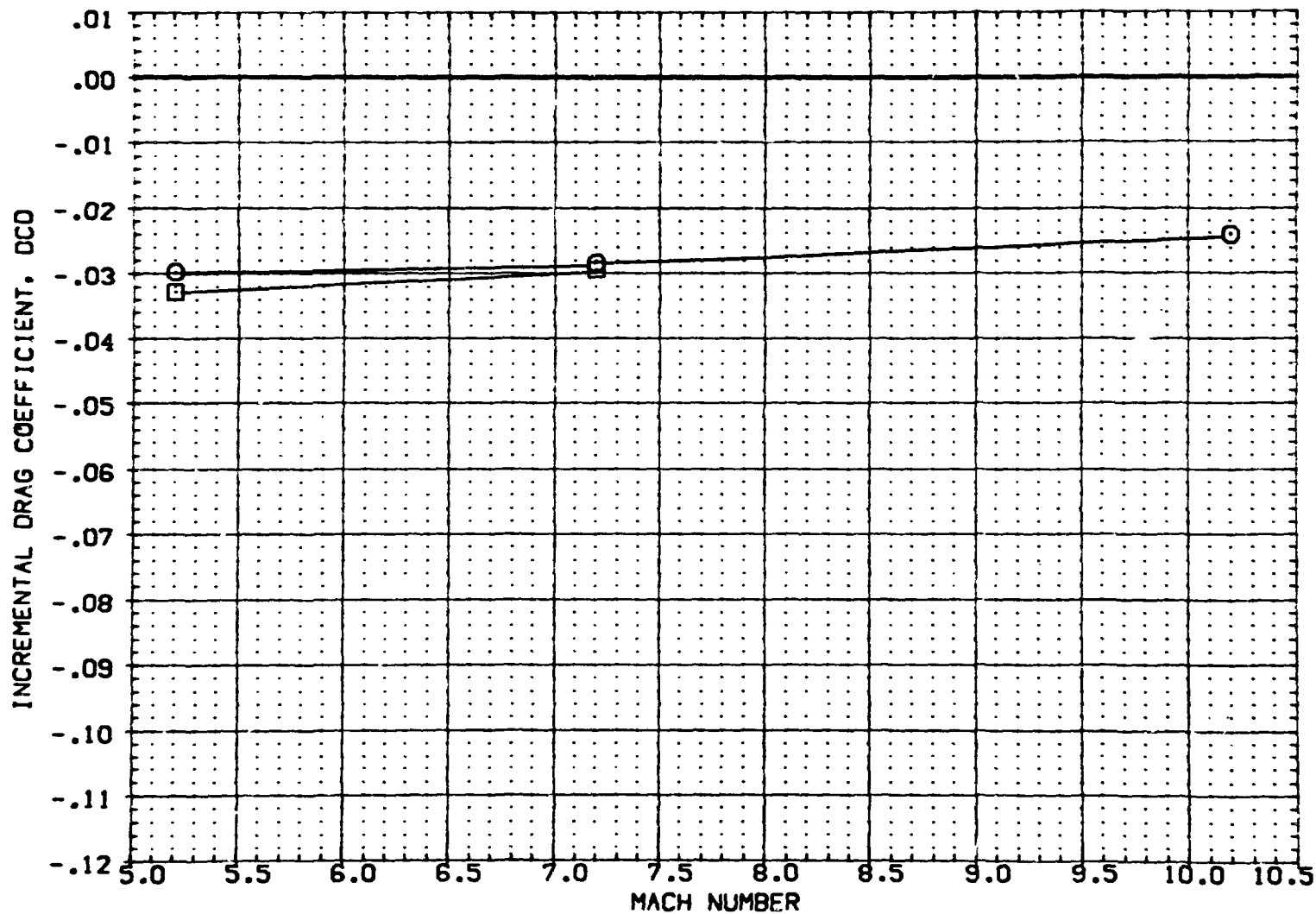


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	CE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018) ○	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020) □	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 VIC7	-20.000	-14.250	55.000	.000	

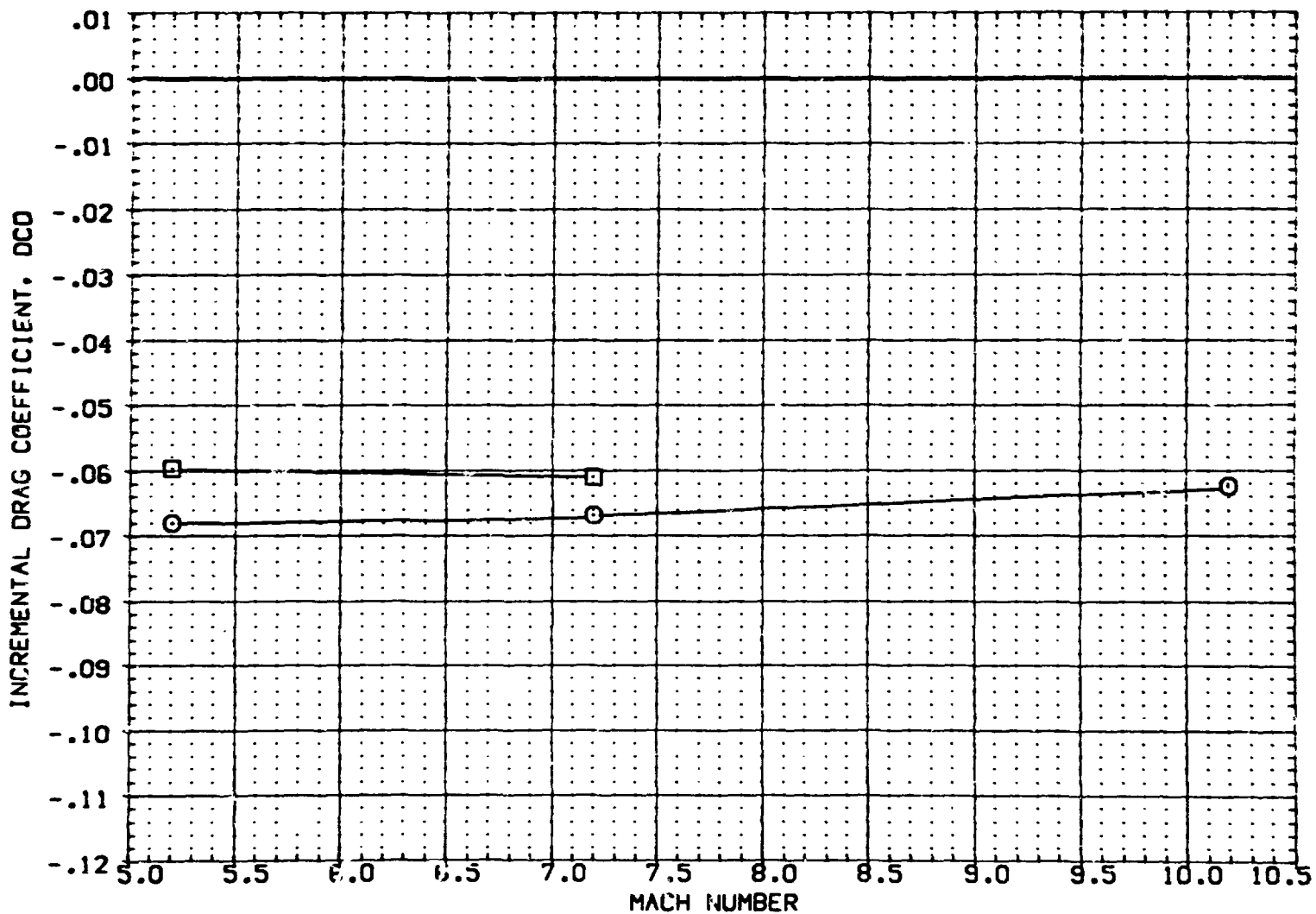


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(○) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB5018)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.Ft.
(UB6020)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

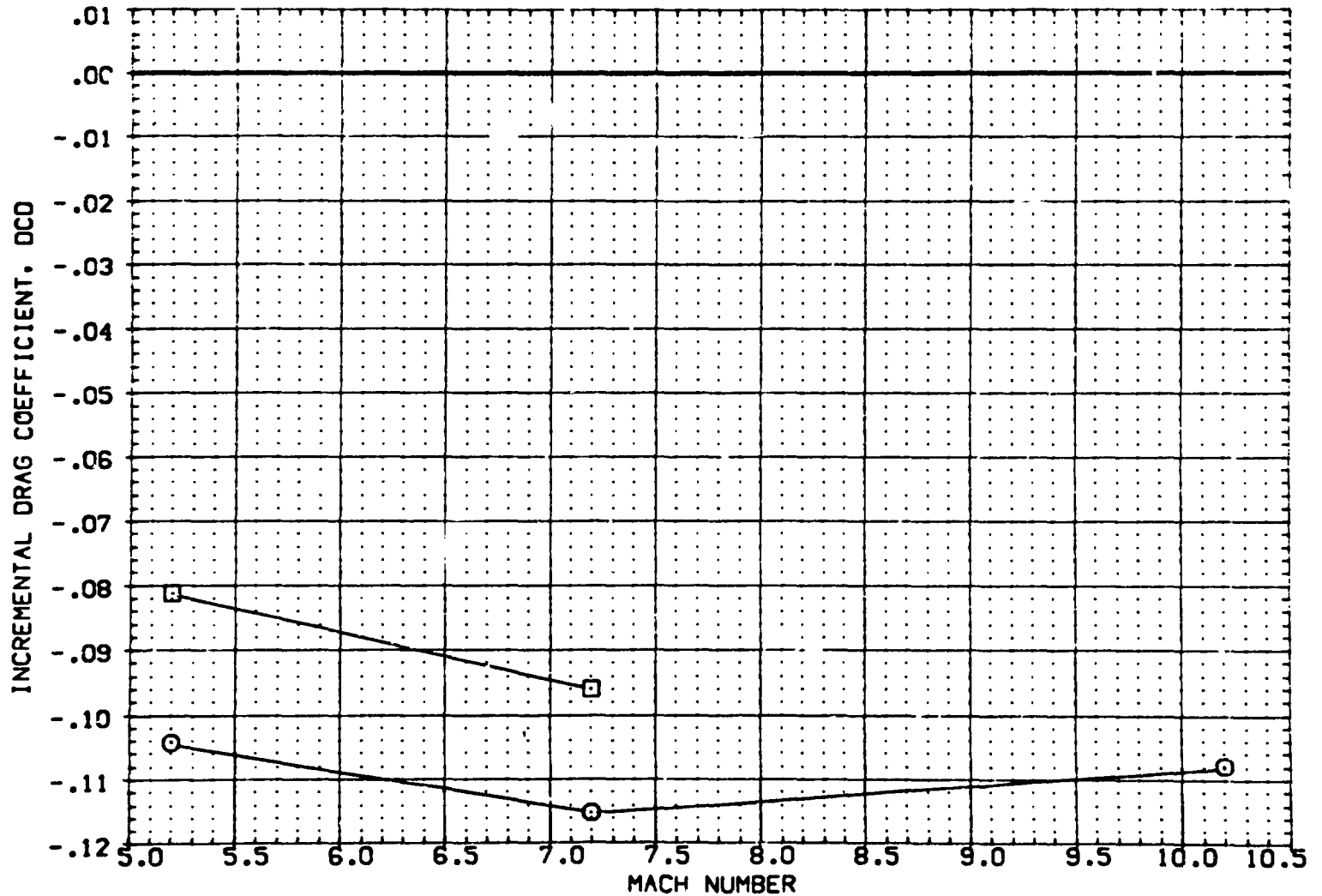


FIG. 7 ELEVON EFFECTS
(E)ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBHK	RUDER	REFERENCE INFORMATION
(J86018)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(J86020)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

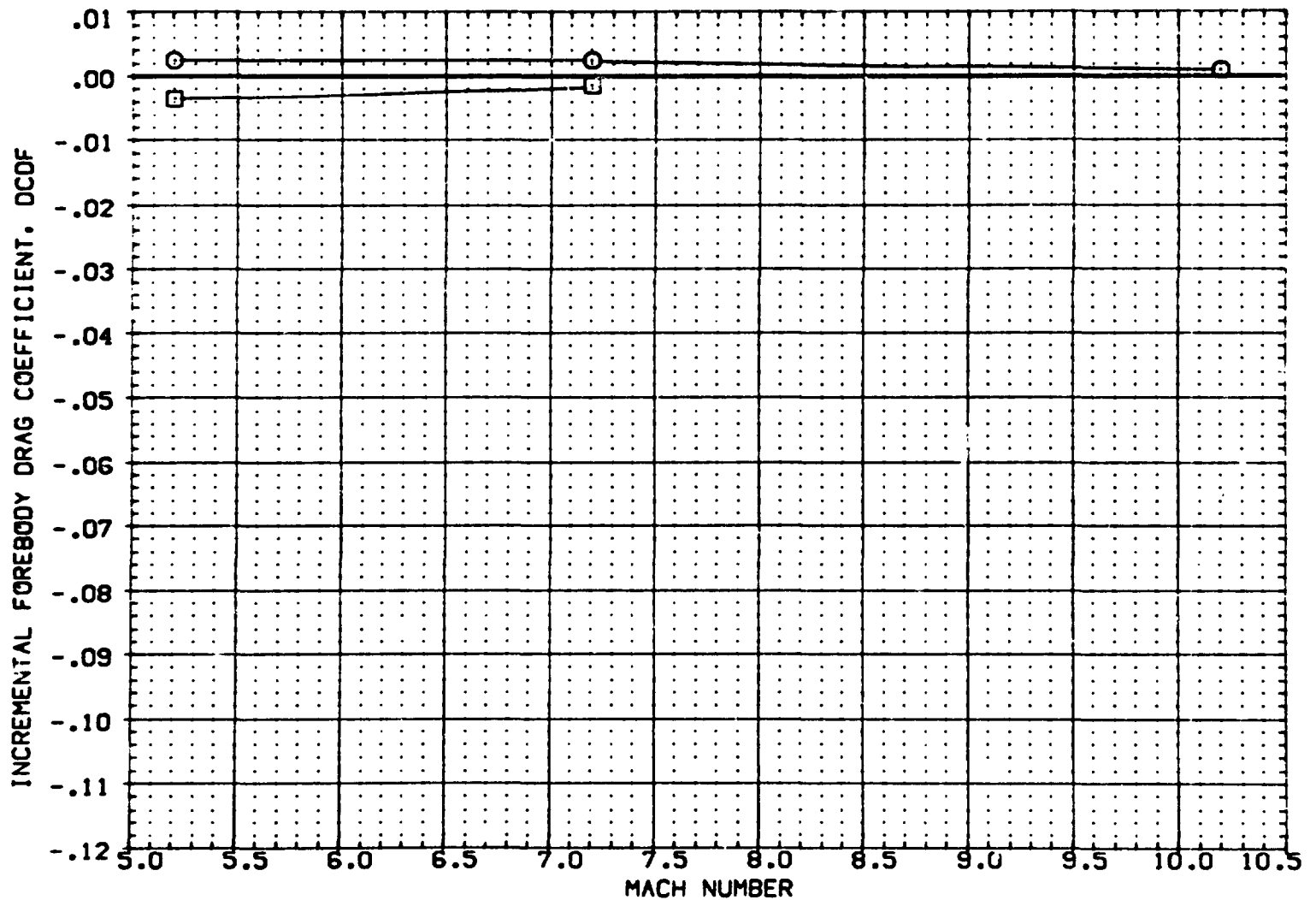


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(JB6018)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(JB6020)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

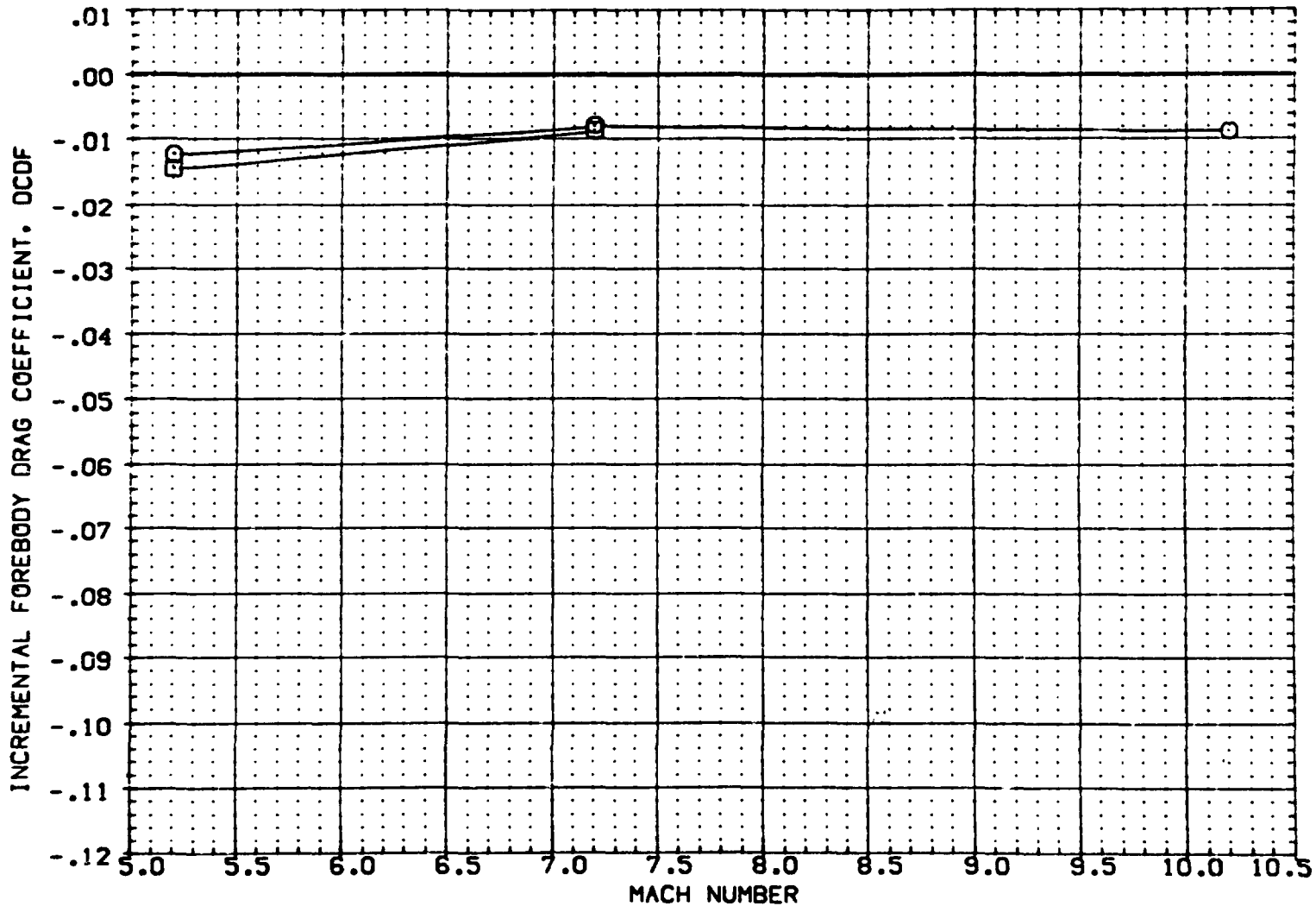


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

1398 CONFIGURATION (0.010-SCALE),

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RLODER	REFERENCE INFORMATION
(UB6018)	APES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(UB6020)	APES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

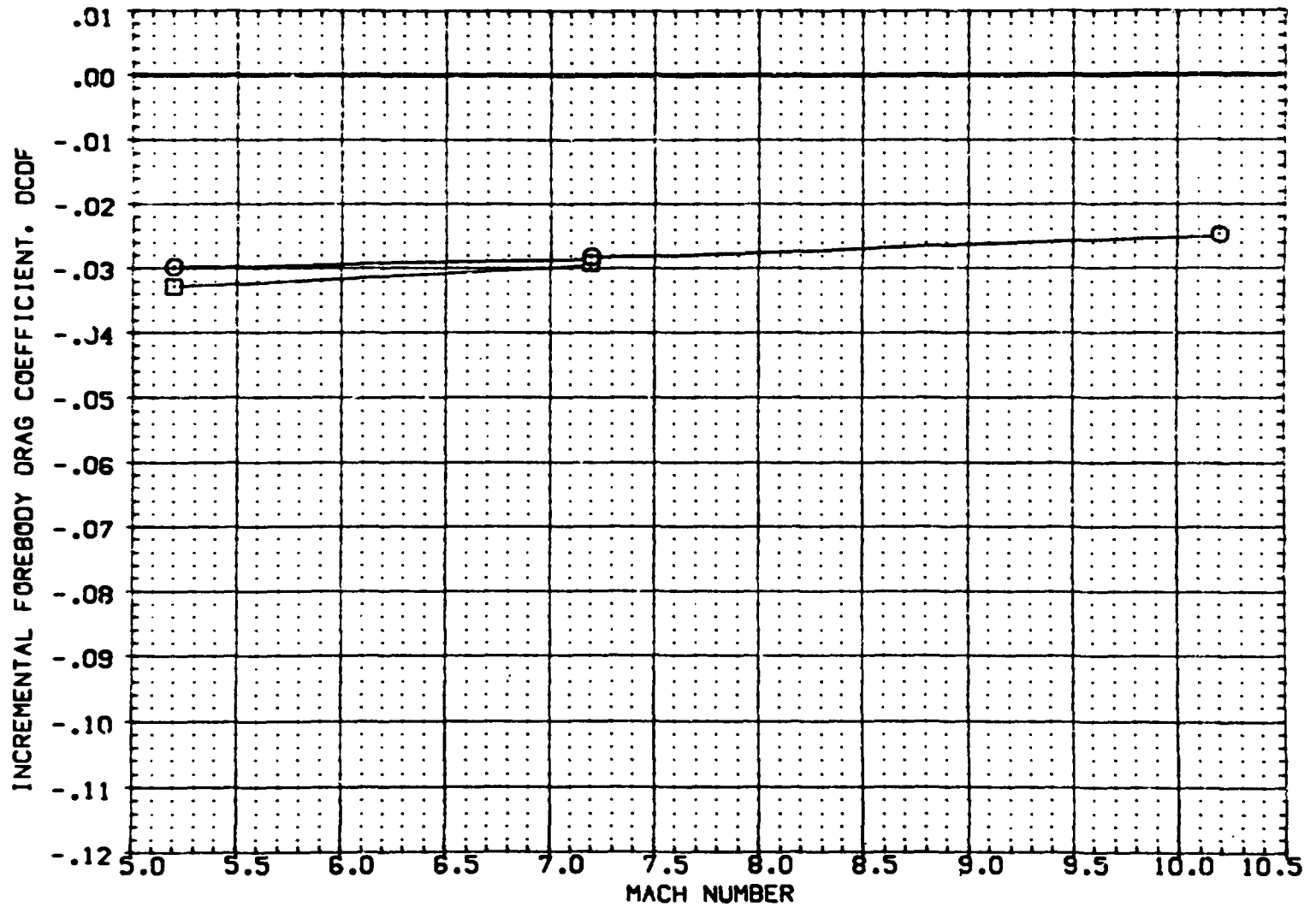


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(J86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

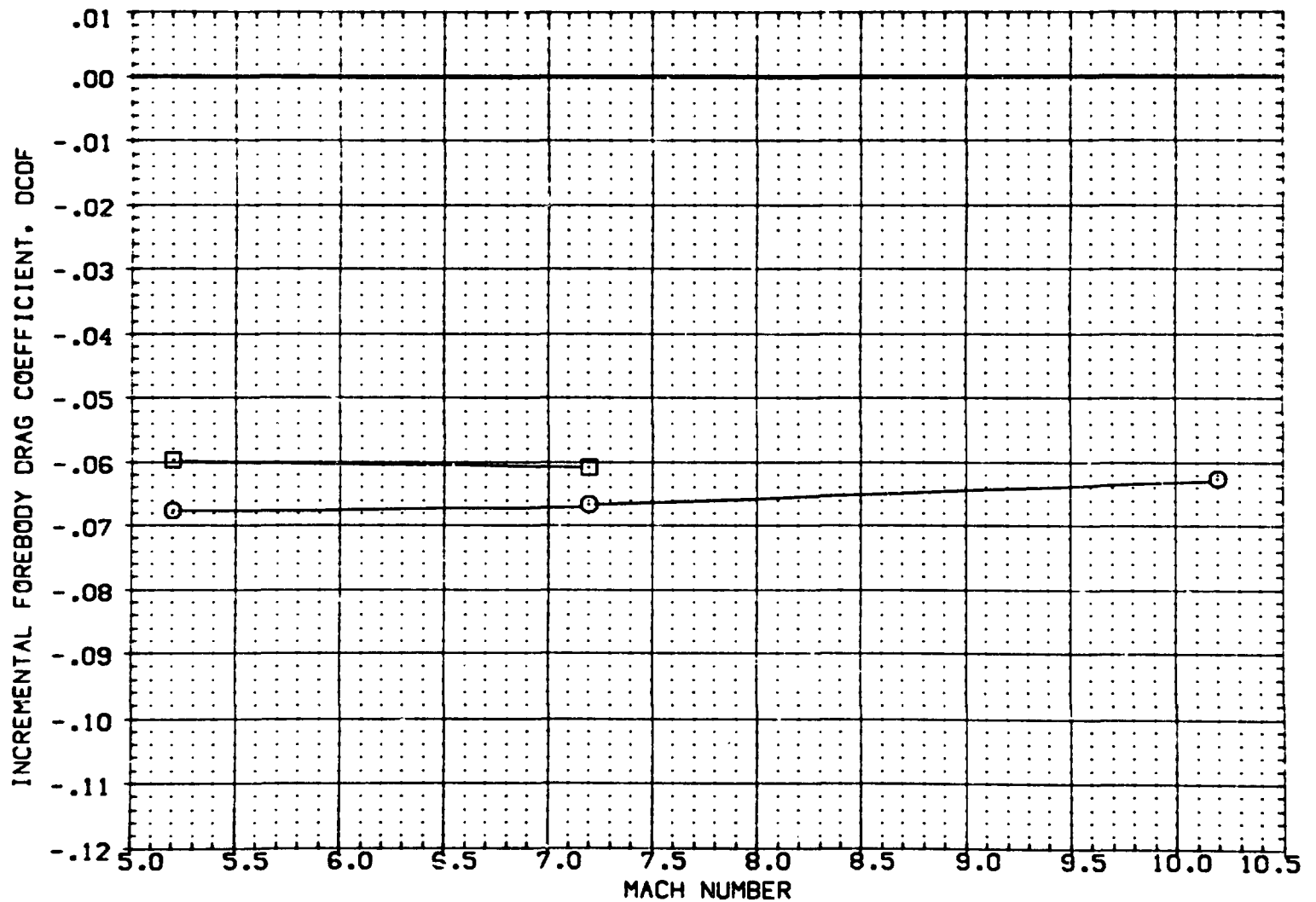


FIG. 7 ELEVON EFFECTS
(O) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 GA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6320)	AMES3.5-168 GA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

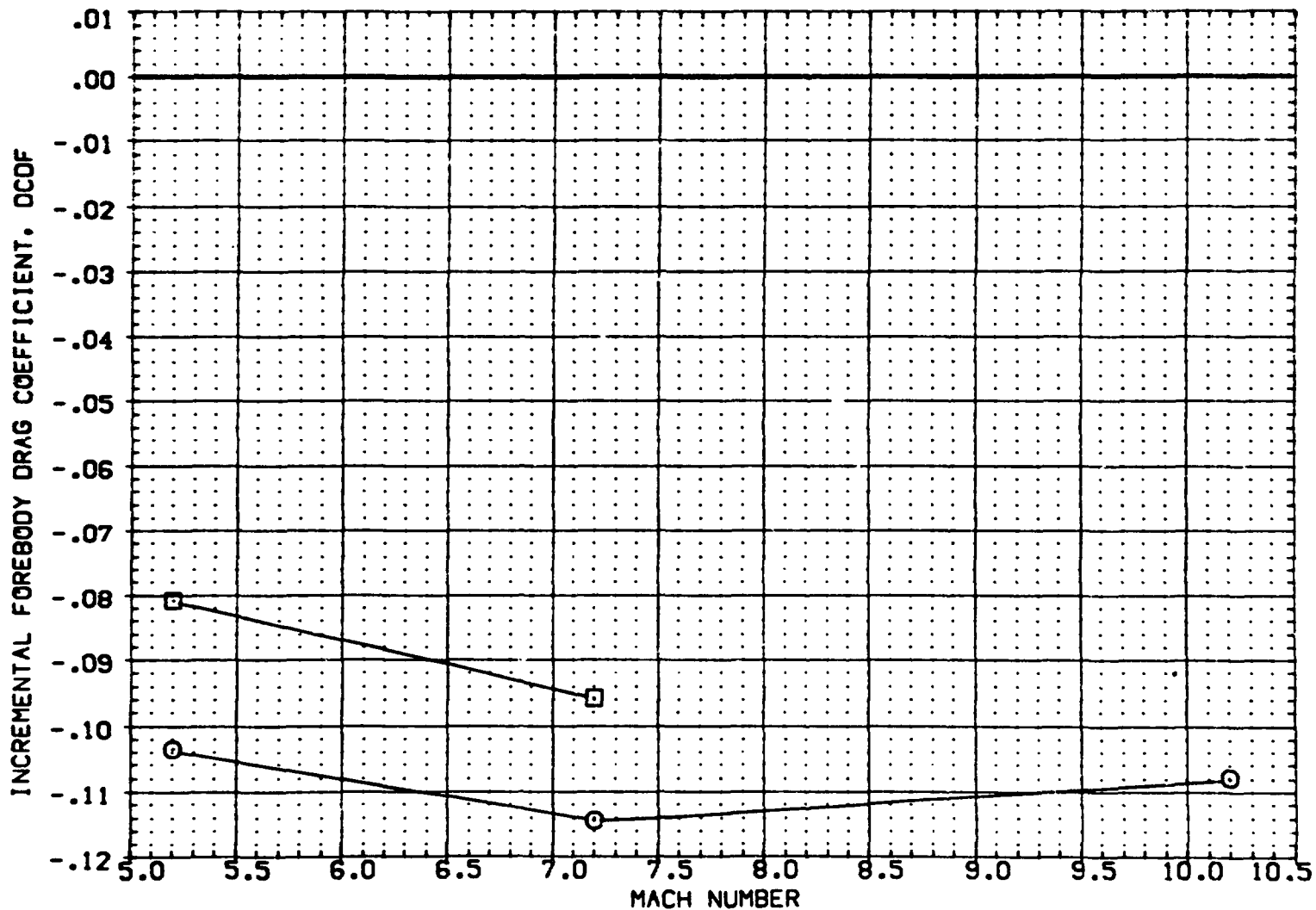


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(E) ALPHA = 50.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6018)	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(LB6020)	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.1800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

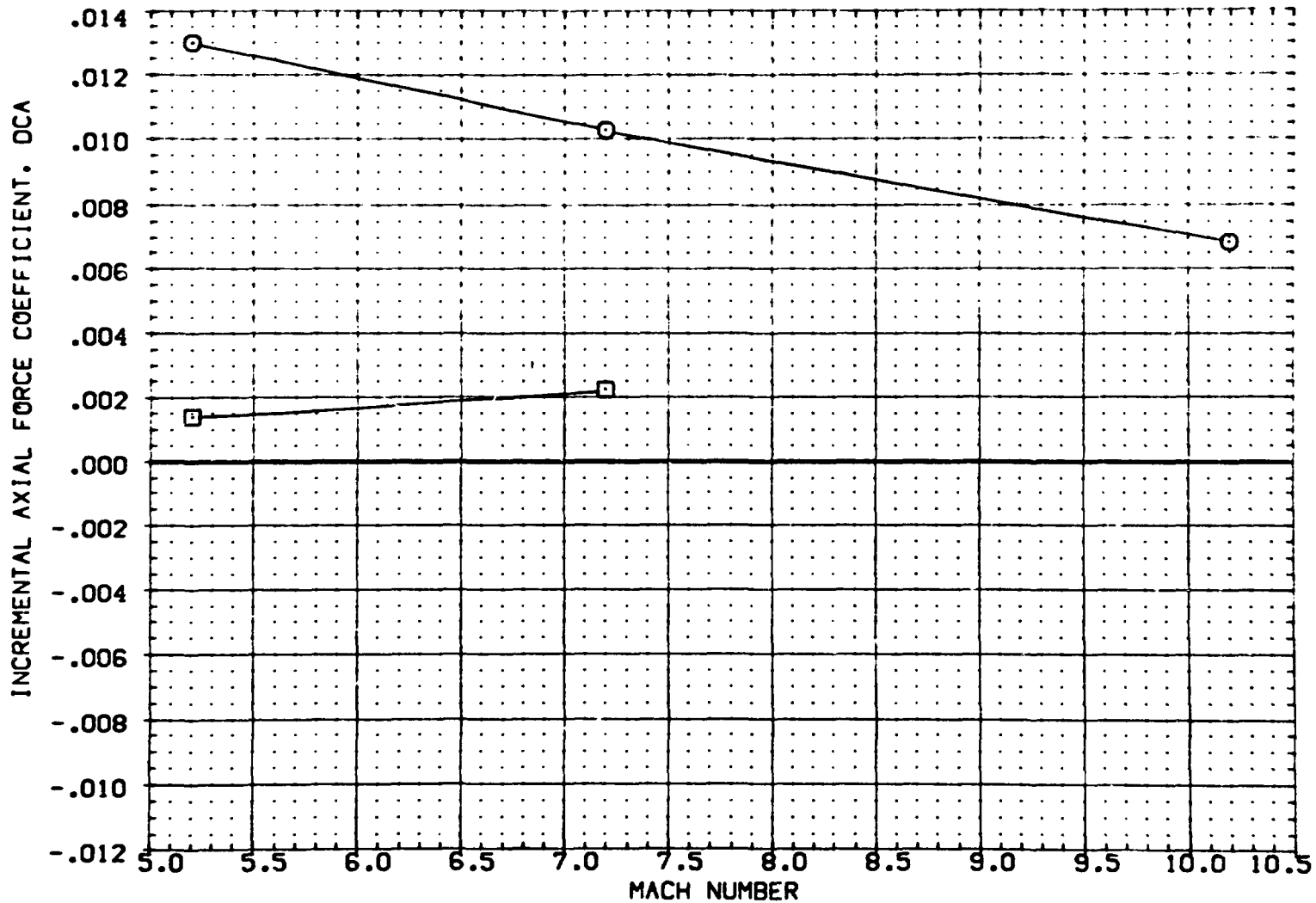


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(UB6020)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6400 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

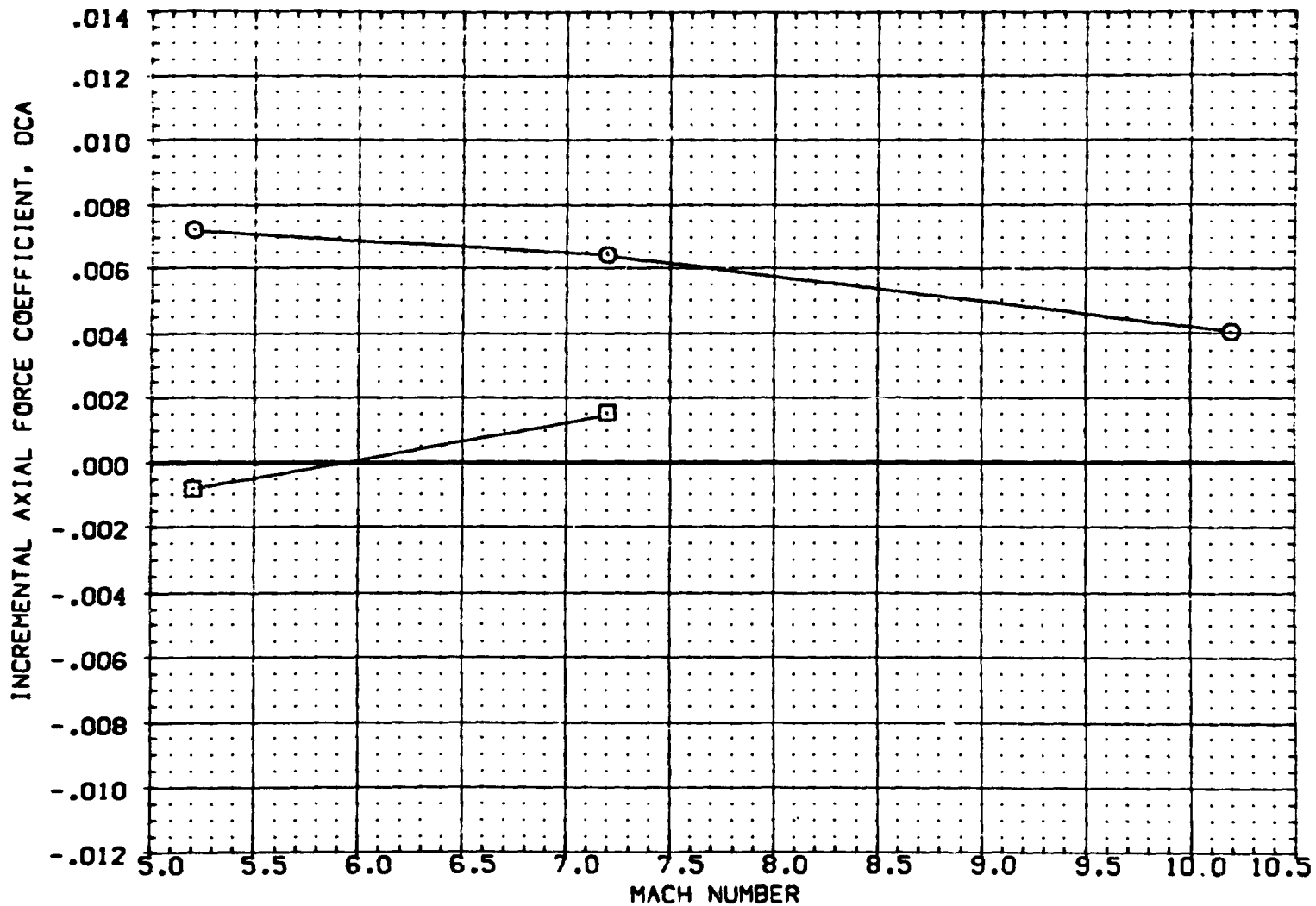


FIG. 7 ELEVON EFFECTS
 (B) ALPHA = 20.00
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(U86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

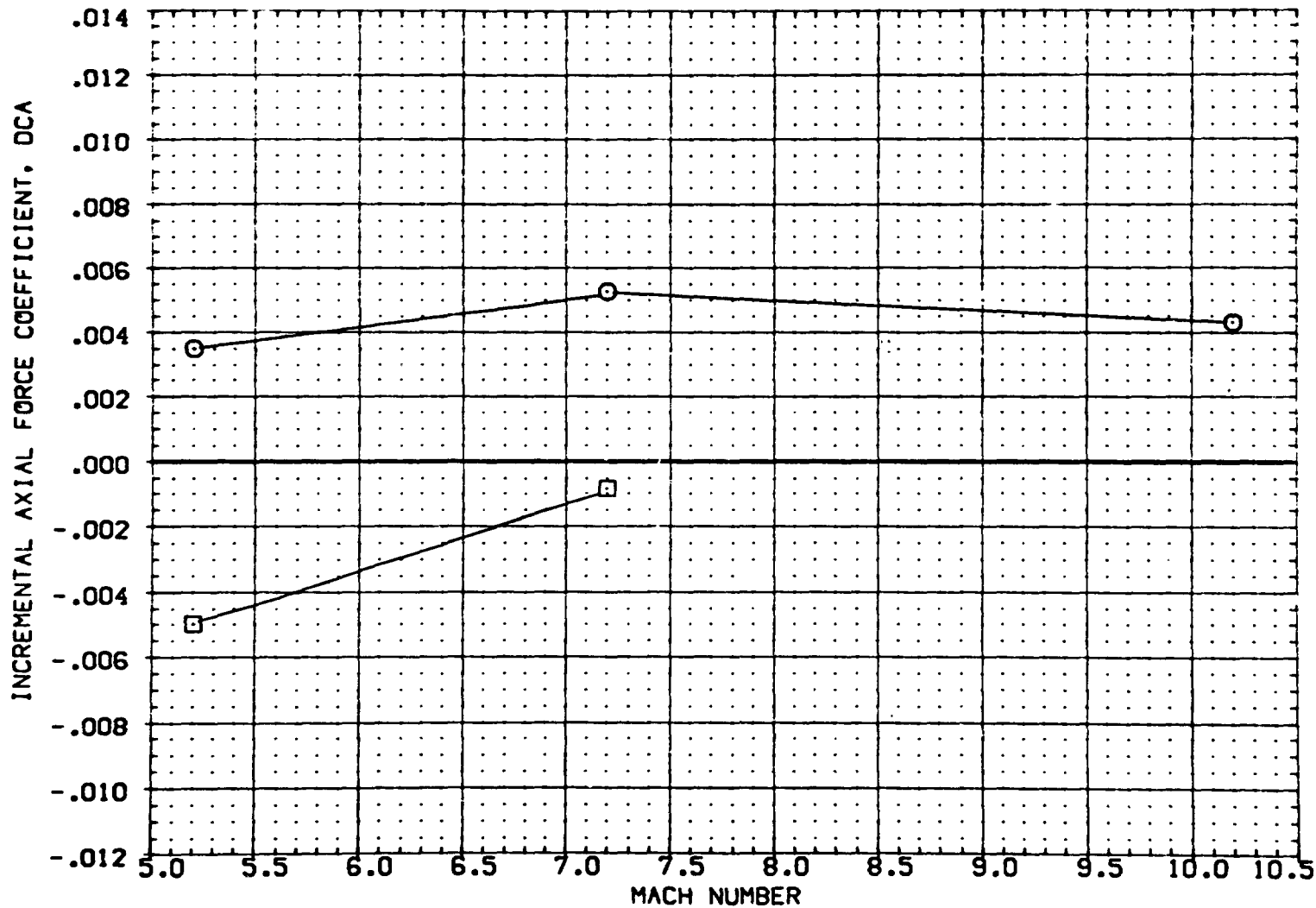


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86018)	APES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE
(U86020)	APES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

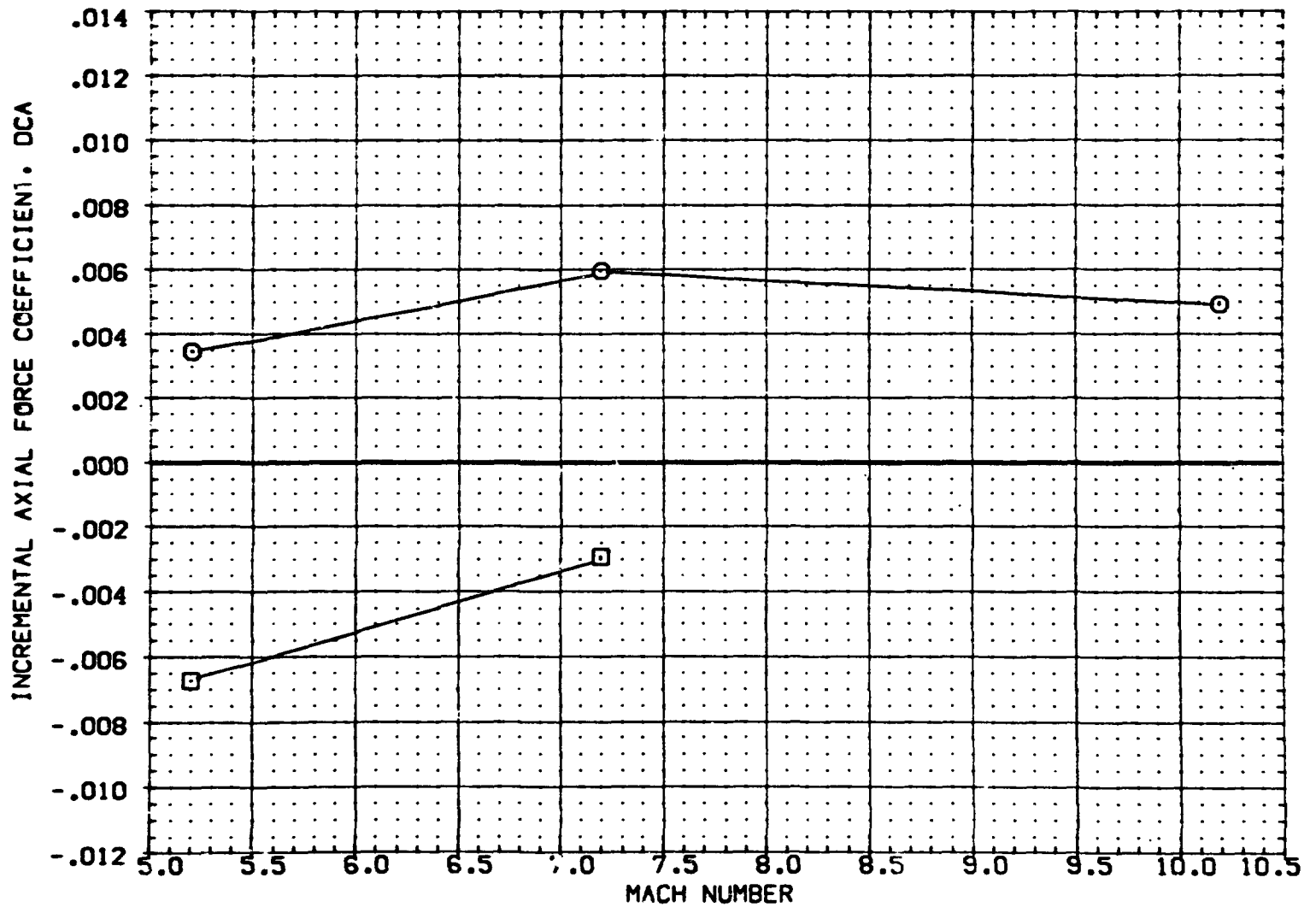


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(O) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOORR	RUDDER	REFERENCE INFORMATION
(L86018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

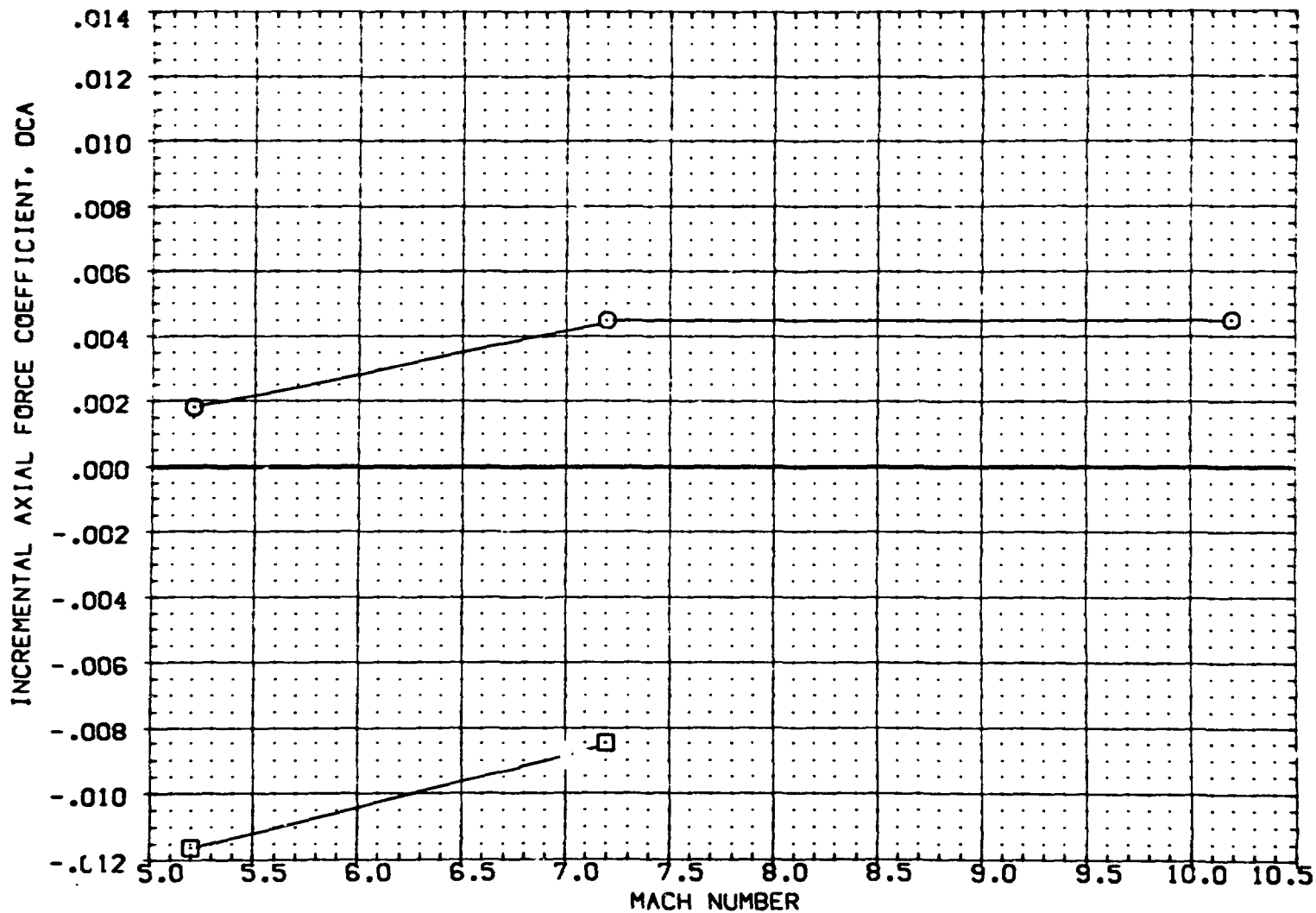


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	□ APES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2090.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020)	○ APES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

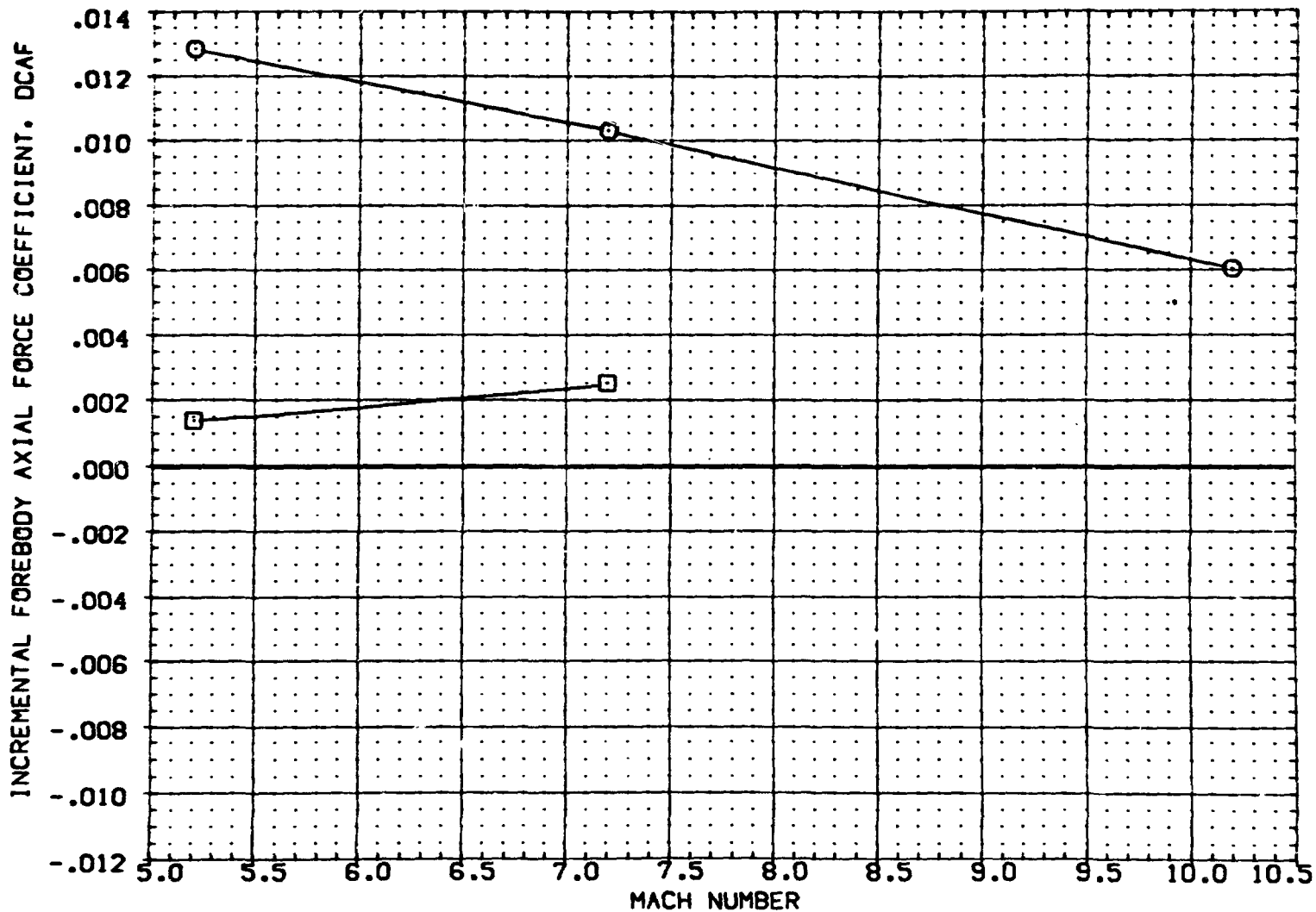


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(J86020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

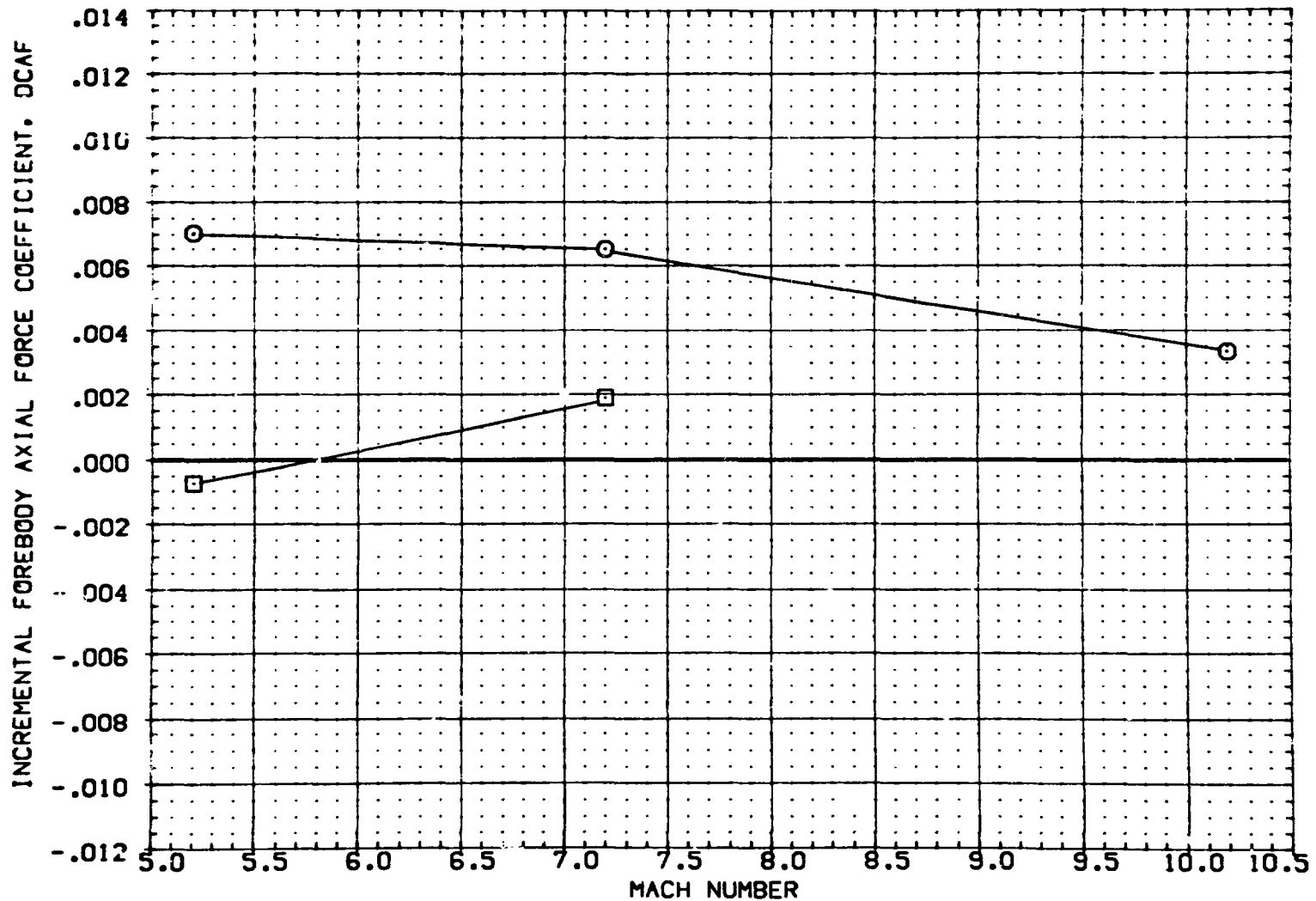


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDGER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(UB6020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

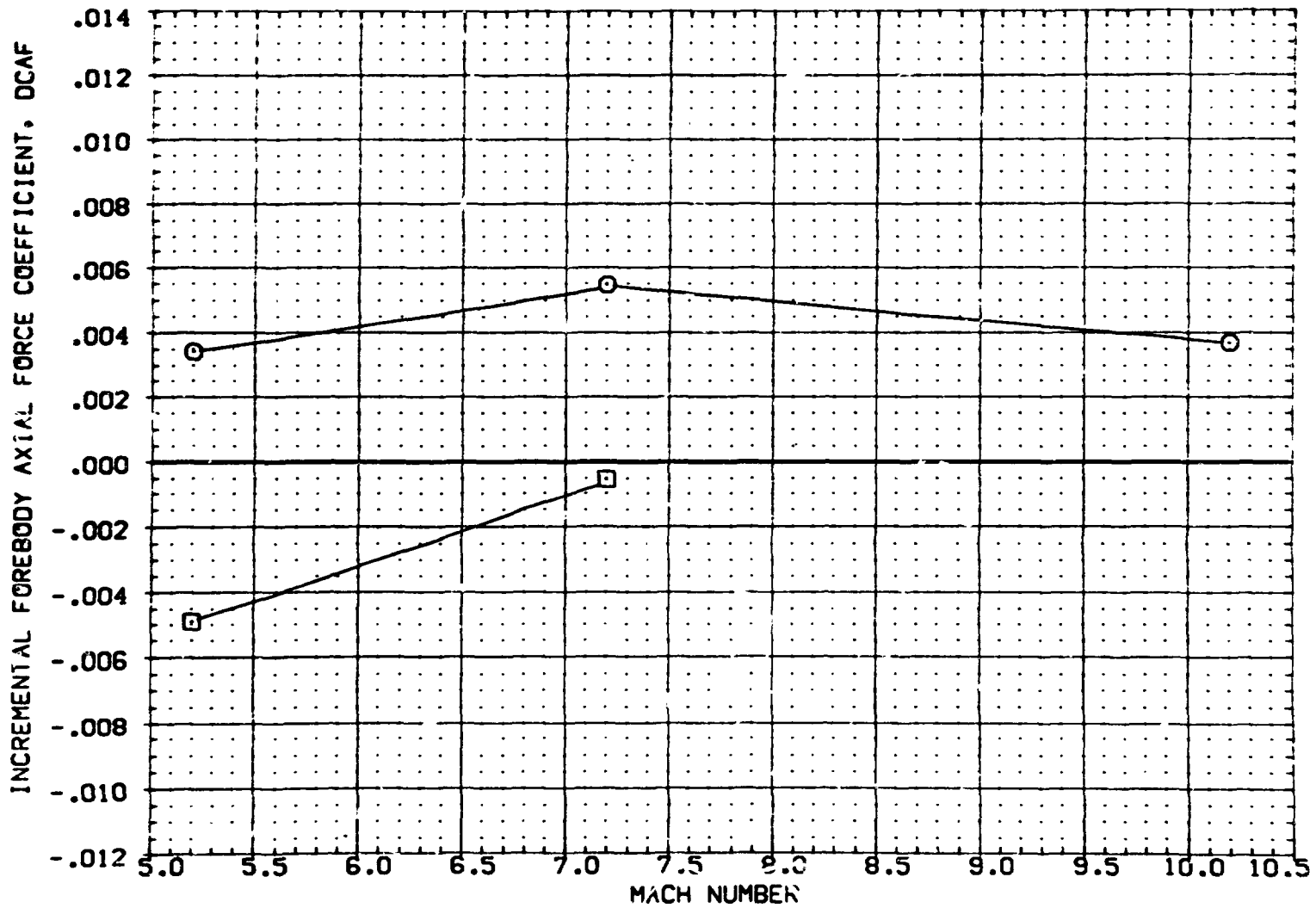


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	GE	BOFLAP	SPL YRK	HULLER	REFERENCE INFORMATION
(JBG018)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(JBG020)	○ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

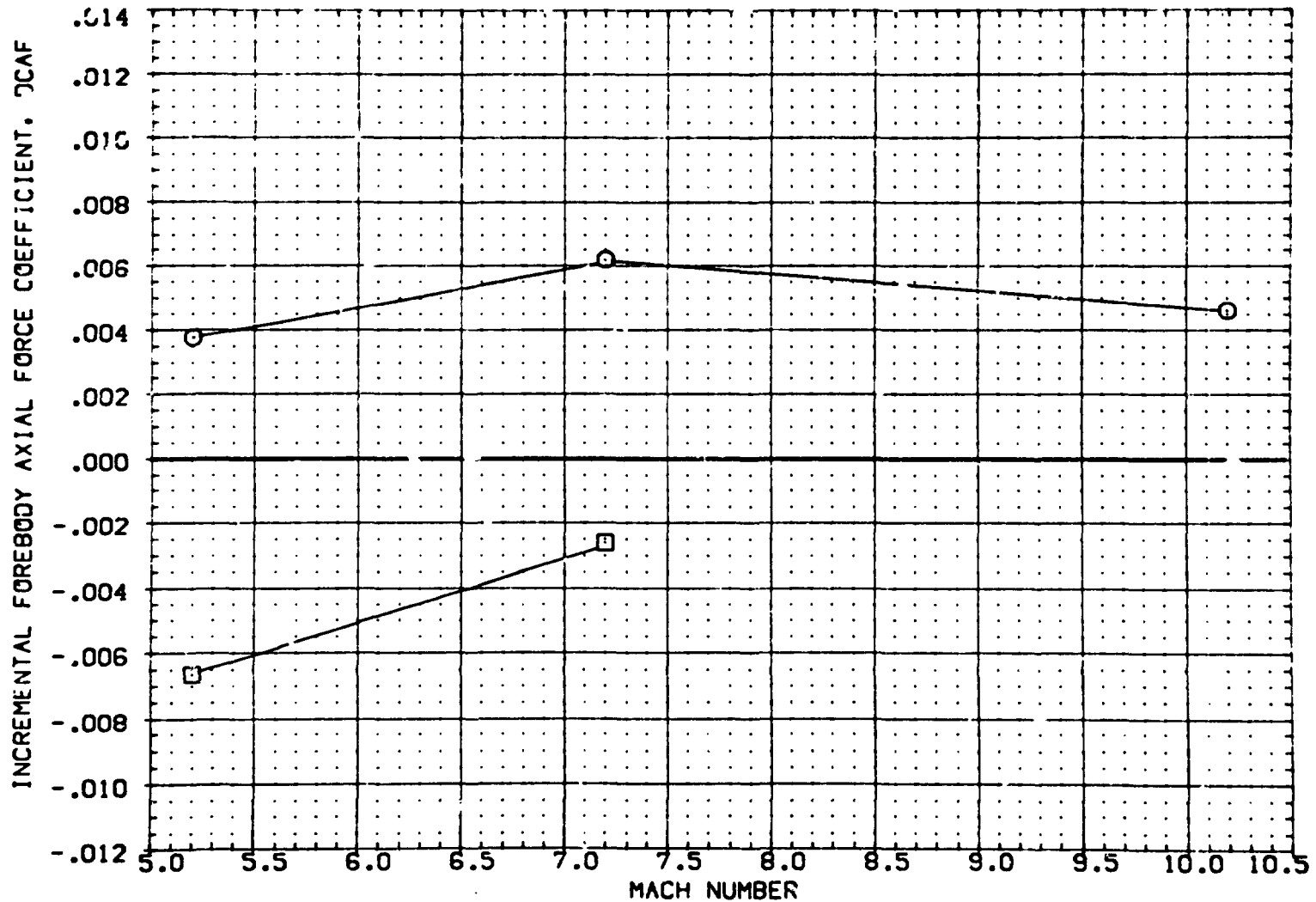


FIG. 7 ELEVON EFFECTS
 (O) ALPHA = 40.00
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	□ AMES3.5-168 UA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XHRP 1076.4800 IN. YHRP .0000 IN. ZHRP 400.0000 IN. SCALE .0100 SCALE
(J86020)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

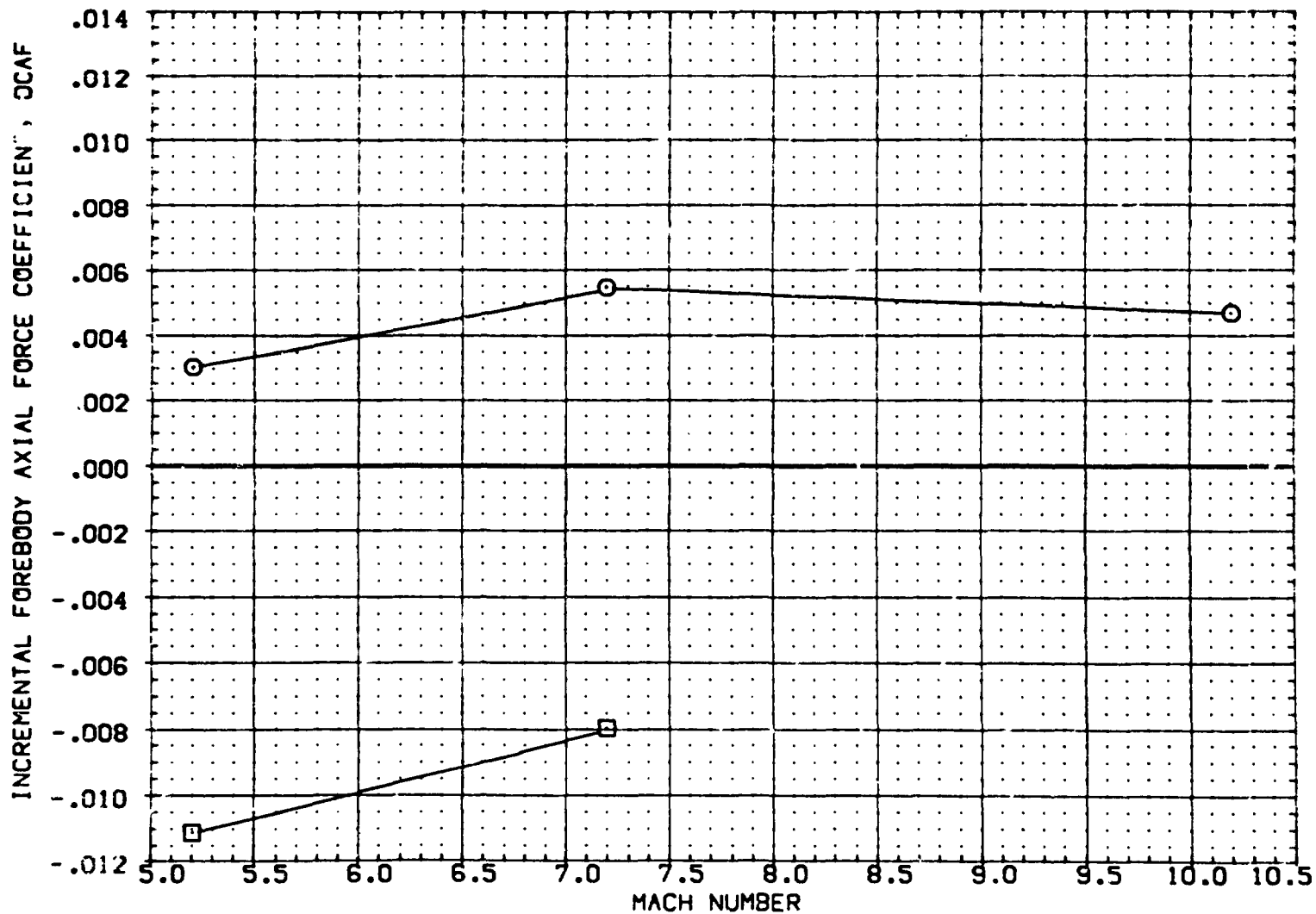


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDER	REFERENCE INFORMATION
(L86018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

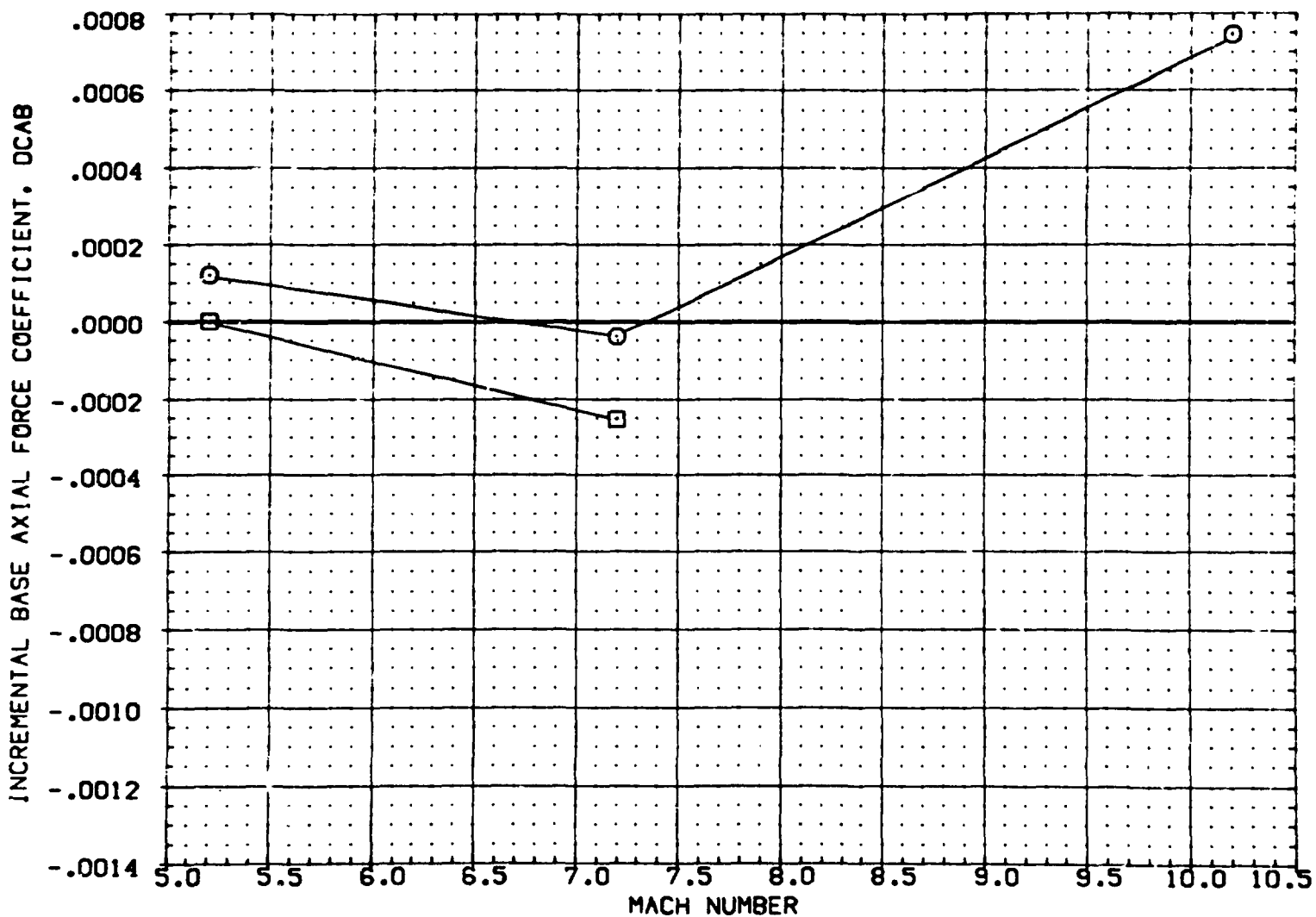


FIG. 7 ELEVON EFFECTS

(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	AMES3. -168 0A23 819 C7 E23 FS M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6020)	AMES3. -168 0A23 819 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

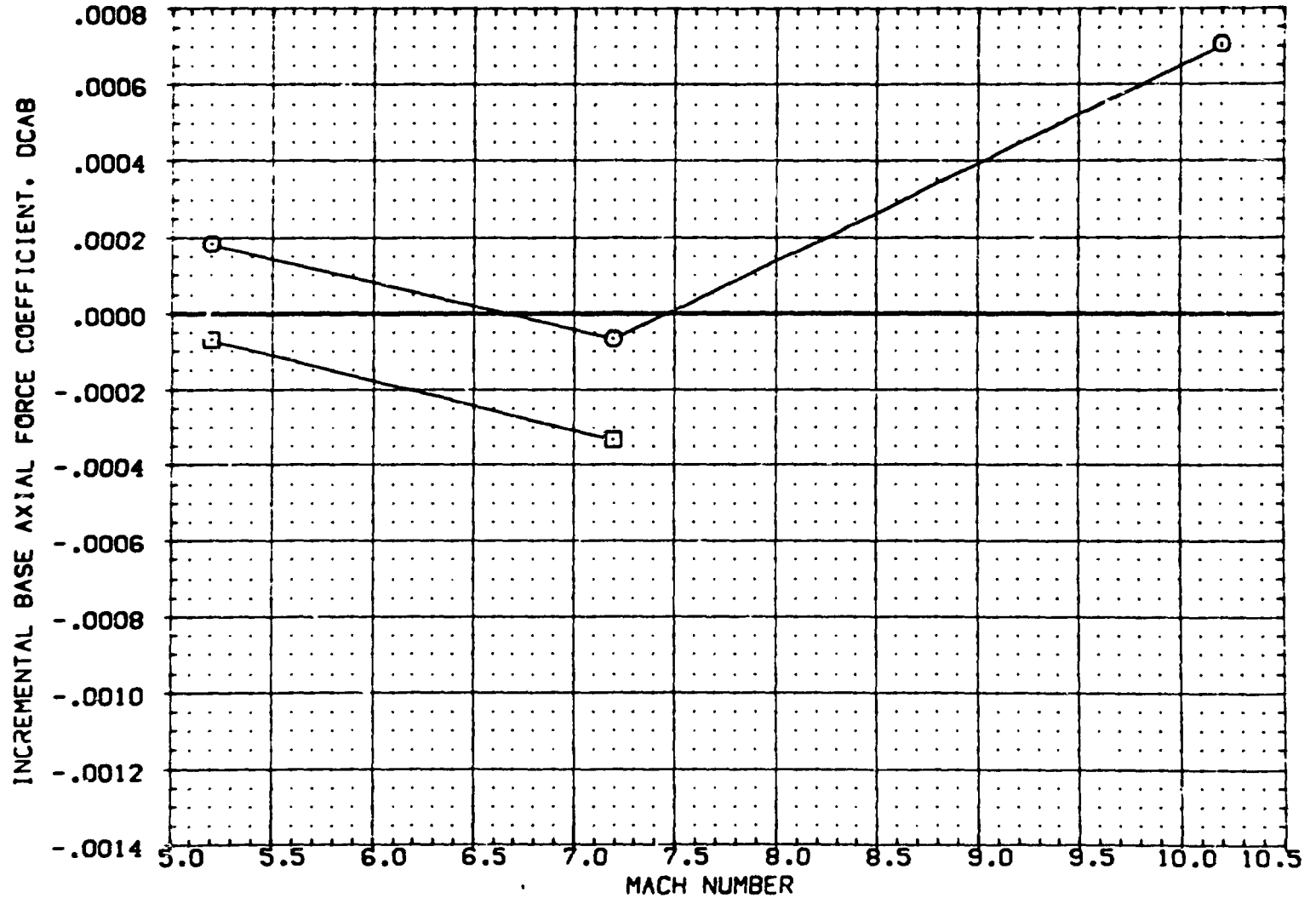


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L66018)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-10.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.1800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L66020)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

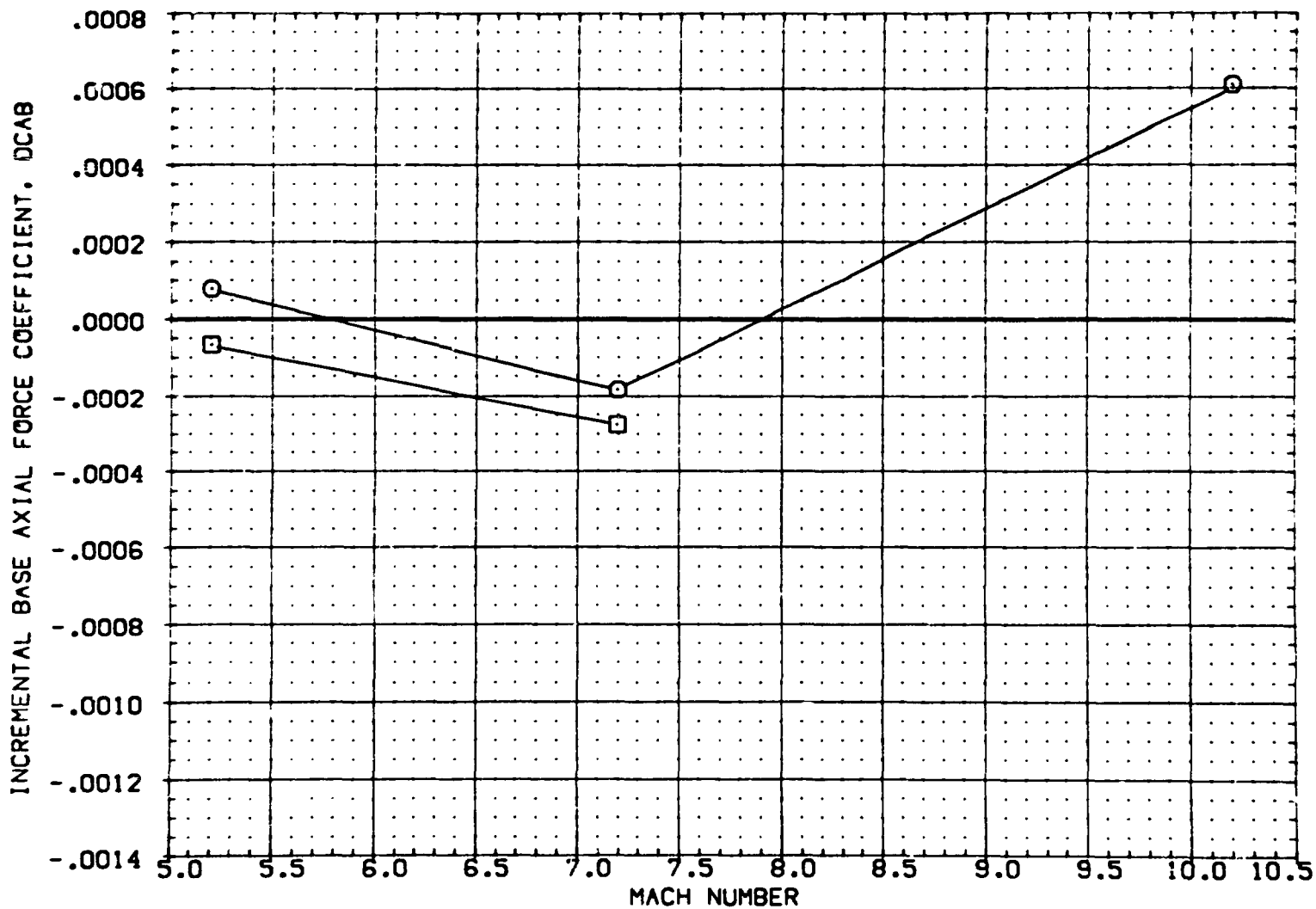


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(L86010)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF	2650.0000 SQ.FT.
(L86020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

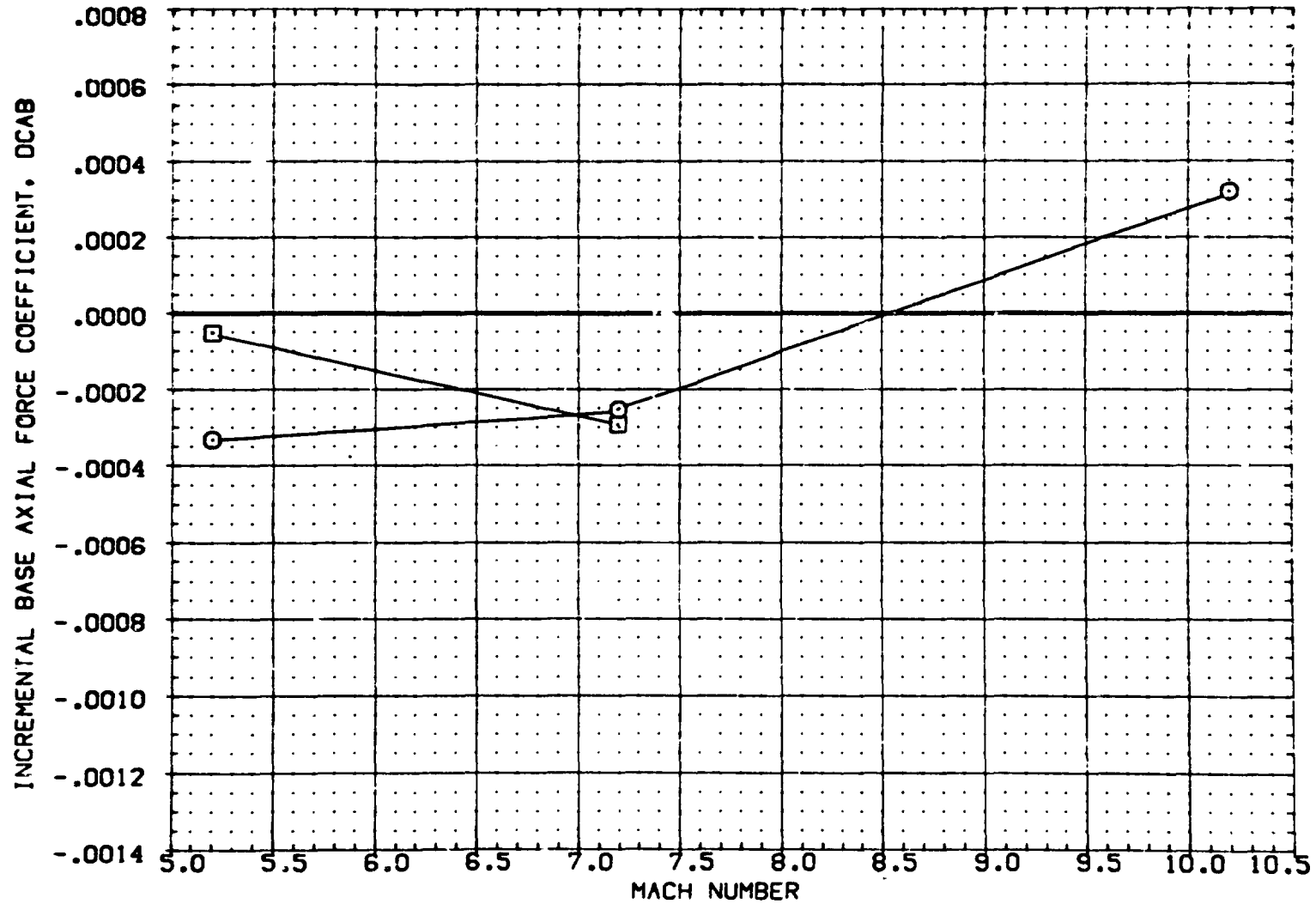


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6018)	AMES3.5-168 DA23 819 C7 E23 FS H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SO.FT. LREF 474.8000 IN. BREF 936.6900 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6020)	AMES3.5-168 DA23 819 C7 E23 FS H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

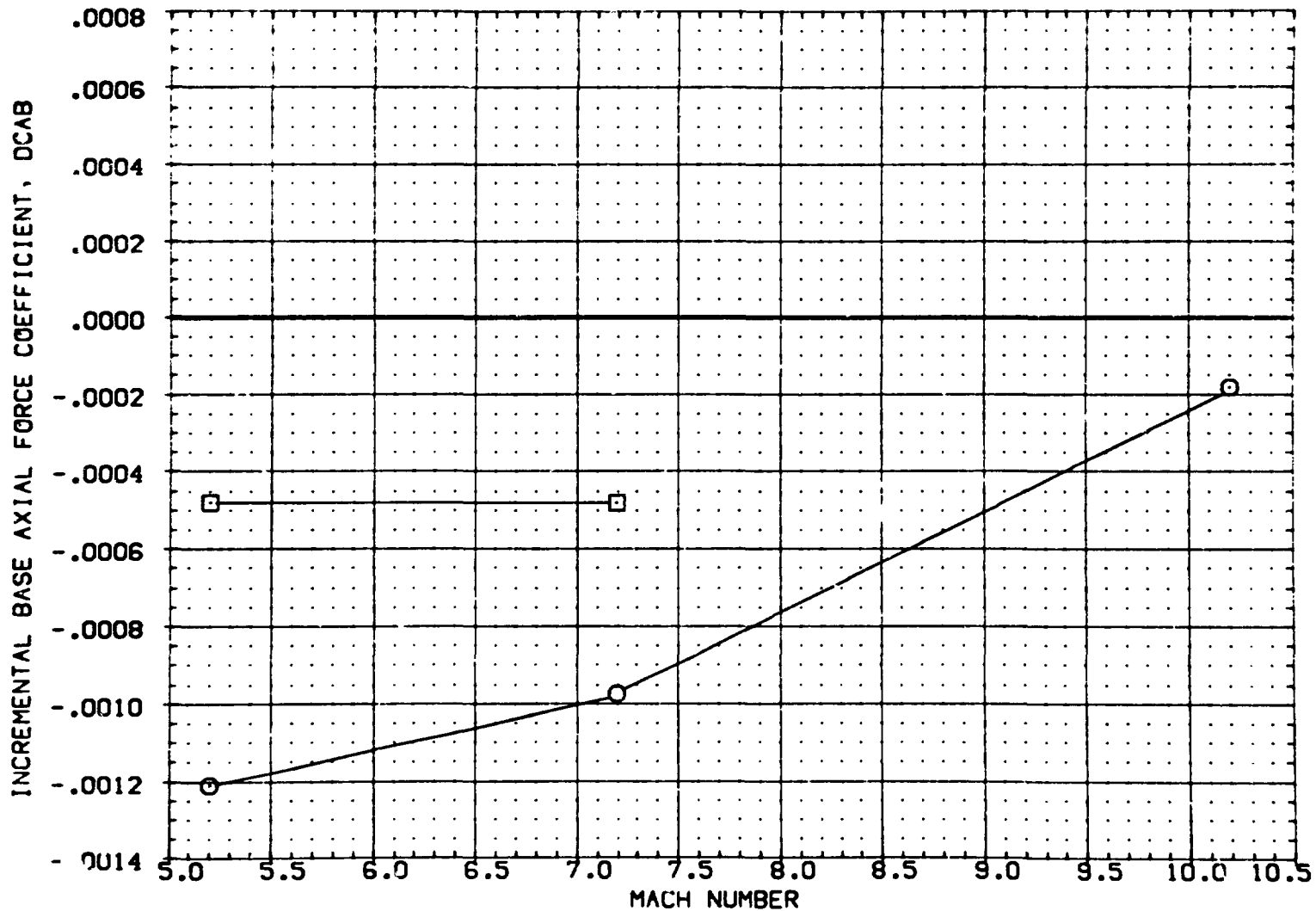


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	□ AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN.
(J86020)	○ AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

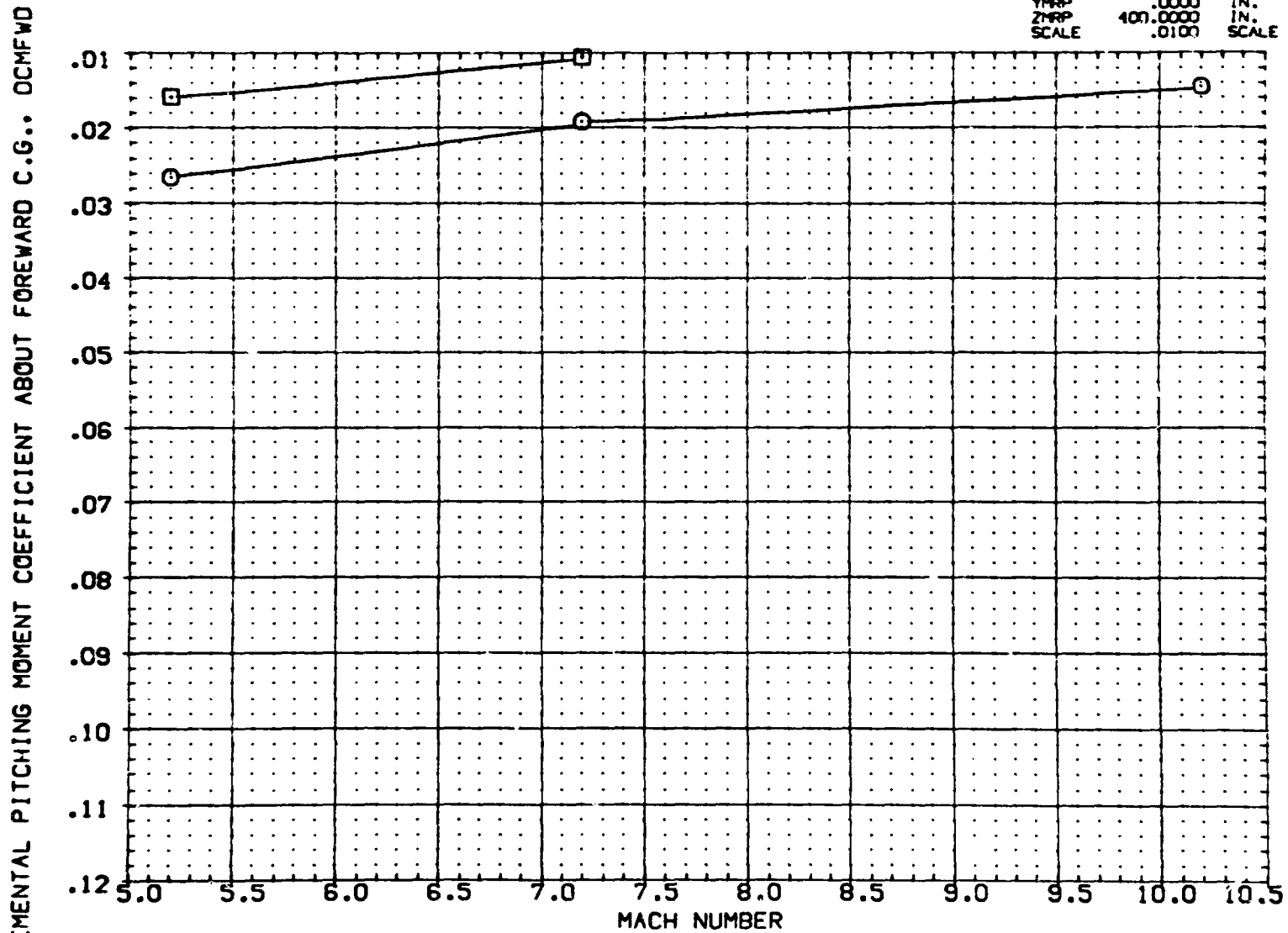


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86018)	□ AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN.
(L86020)	□ AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G.: DCMFWD

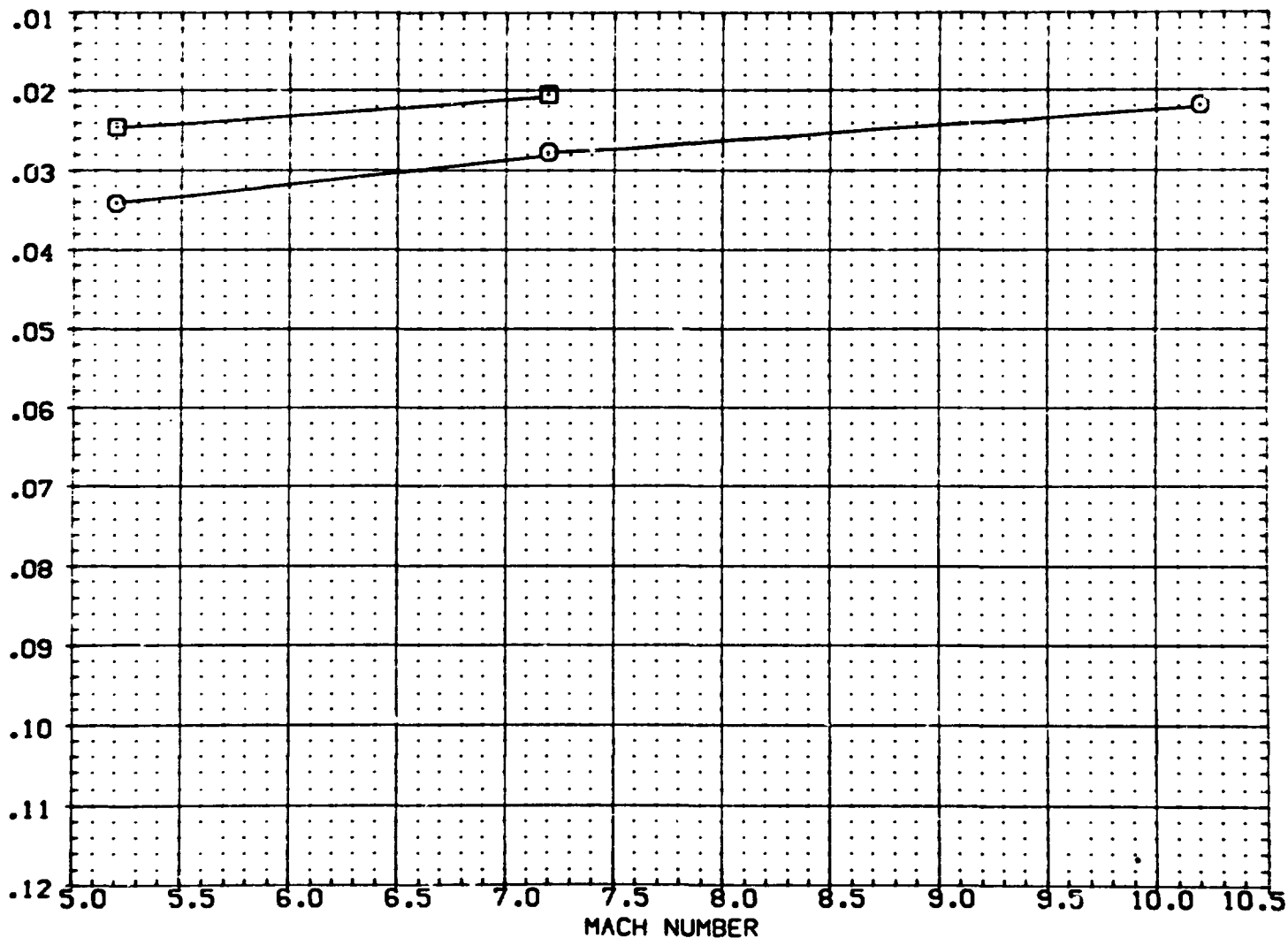


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L65018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L66020)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G.: OCMFWD

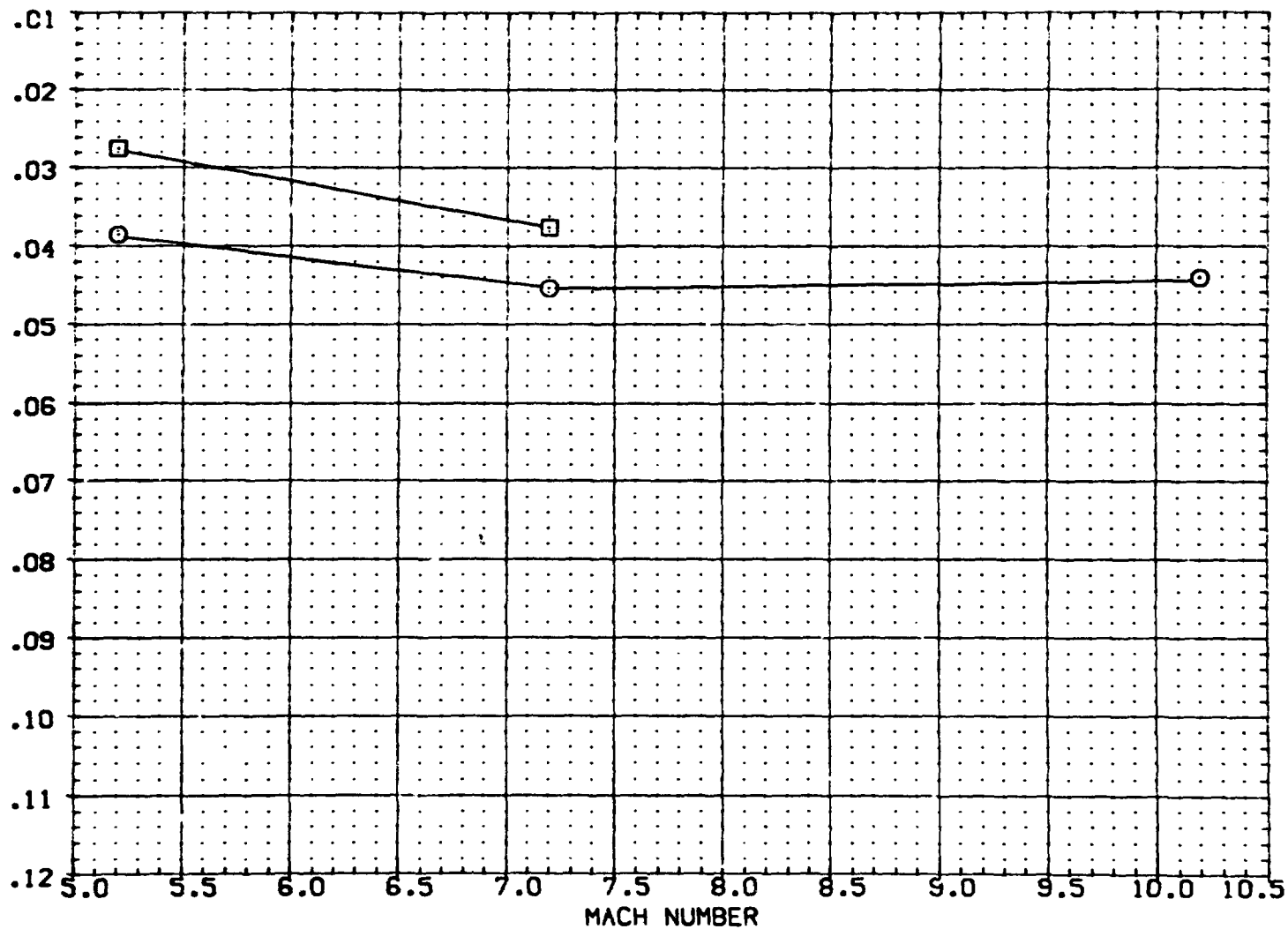


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(JB6018)	AMES3.5-168 OA27 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(LB6020)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

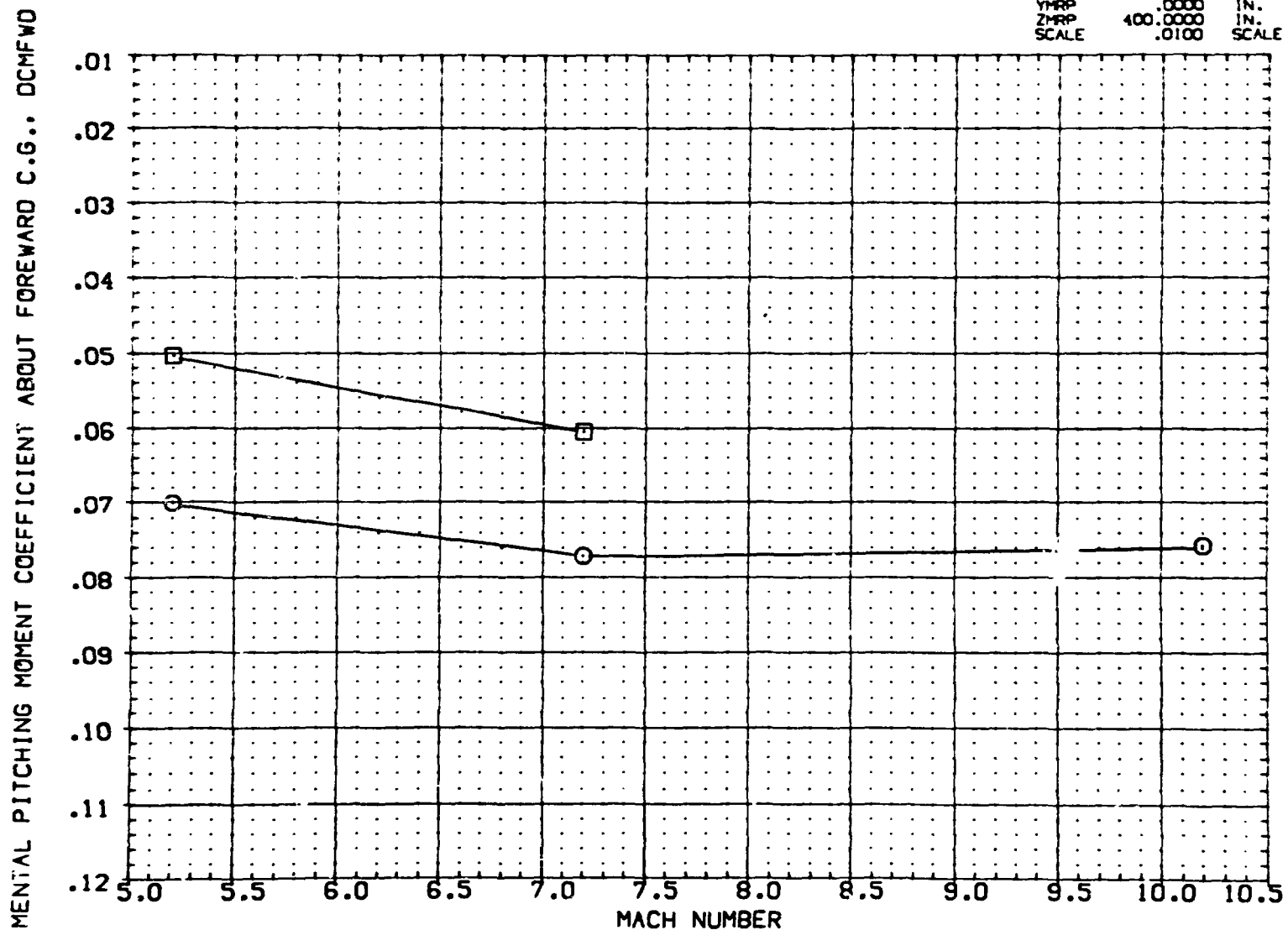


FIG. 7 ELEVON EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(L86020)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

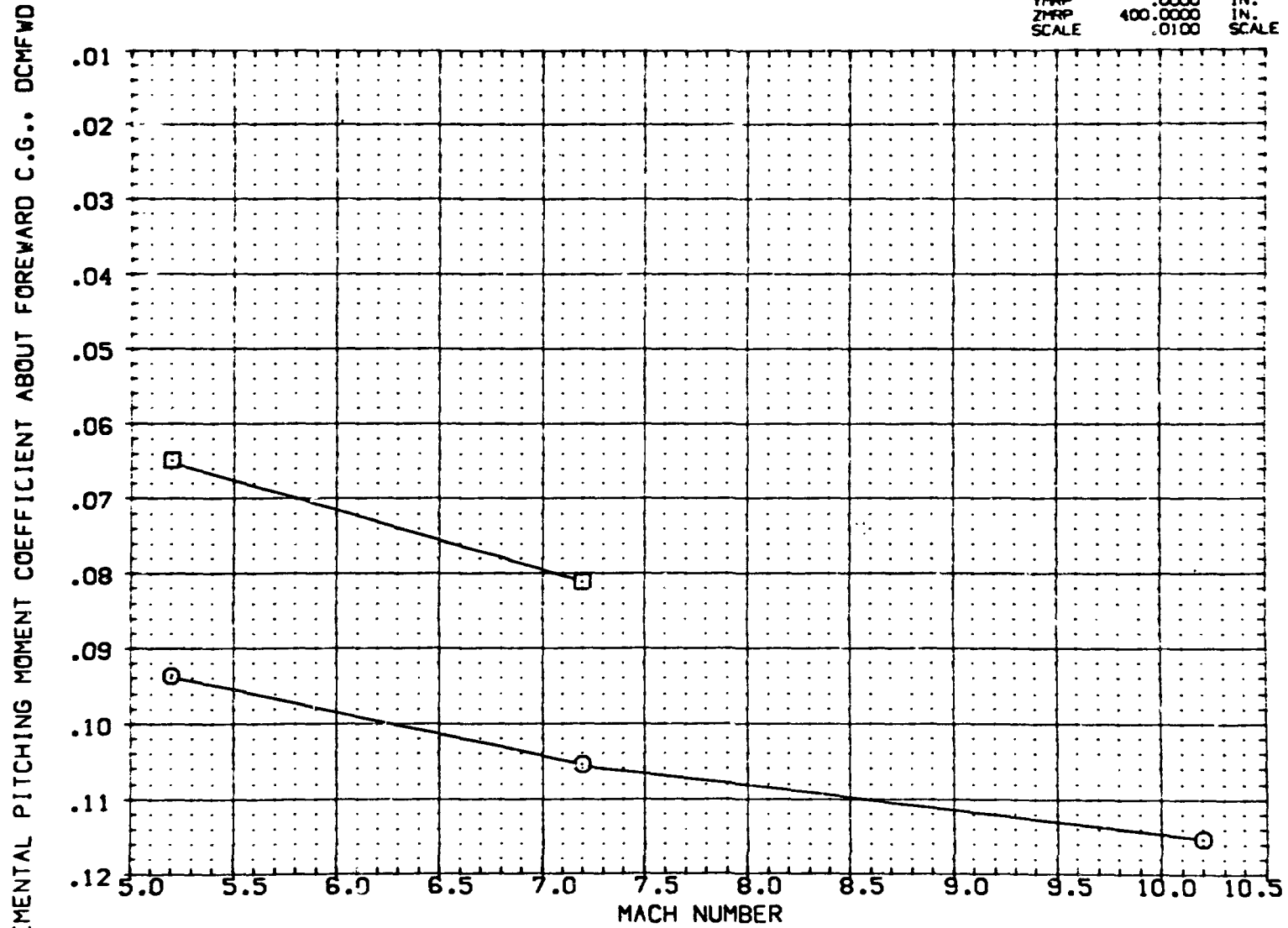


FIG. 7 ELEVON EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(.66018)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT.
(.66020)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT AFT C.G.: DCMAFT

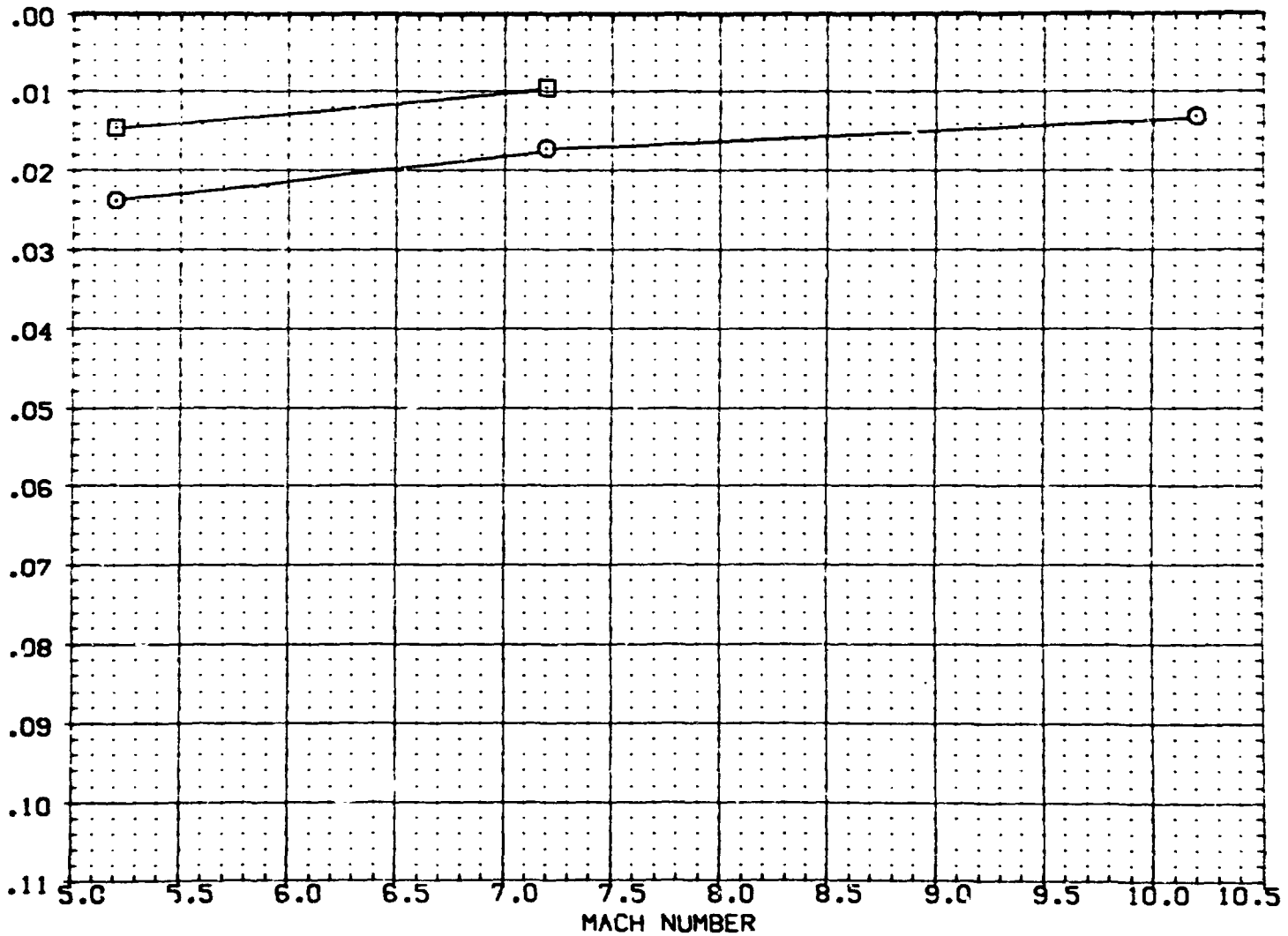


FIG. 7 ELEVON EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	AMES3.5-168 GA23 B19 U7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 975.6800 IN. XMRP 10.1800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86020)	AMES3.5-168 GA23 B19 U7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

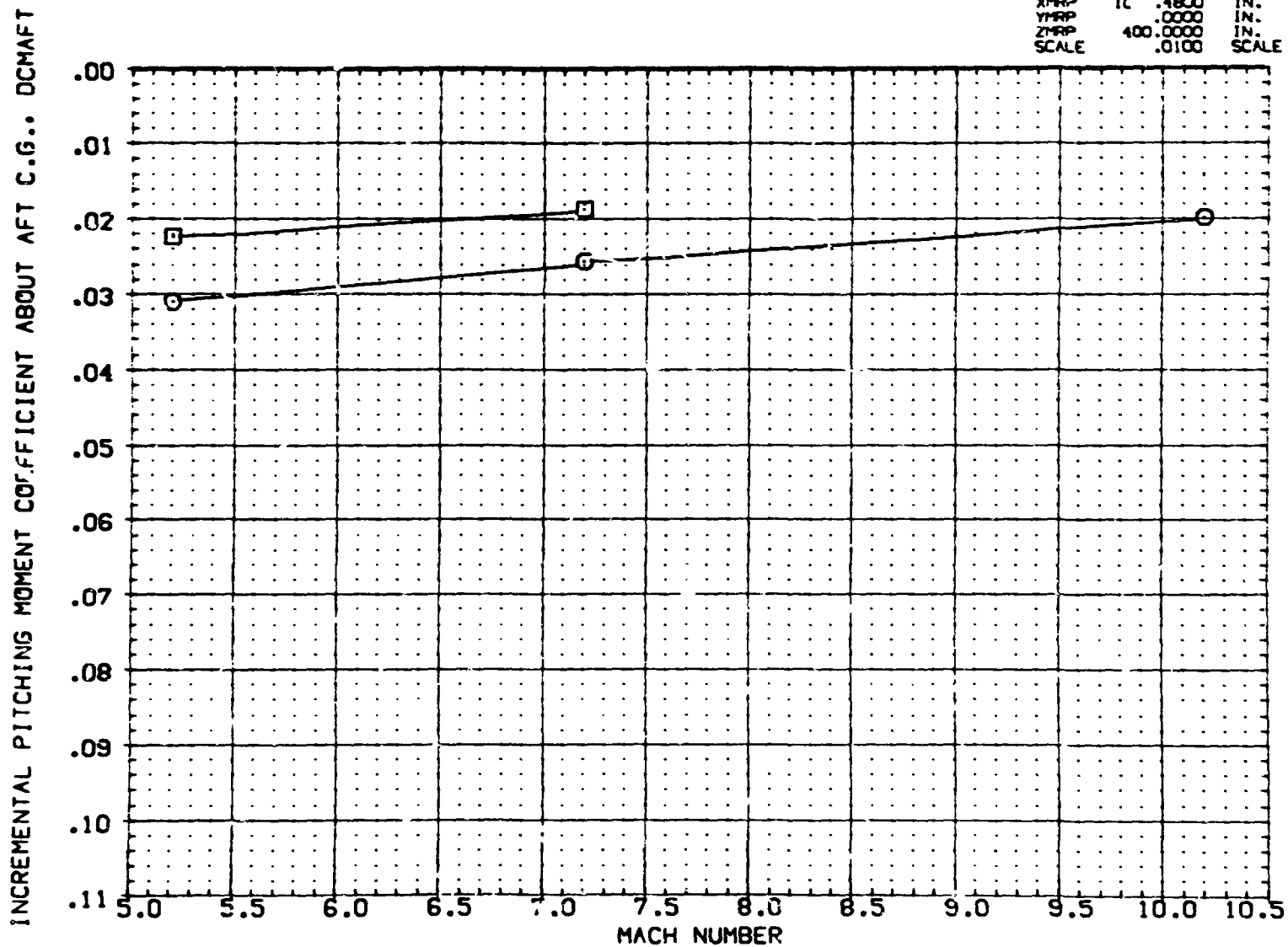


FIG. 7 ELEVON EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPGRK	RUDDER	REFERENCE INFORMATION	
(J86018)	○ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF	2690.0000 SQ.FT.
(J86020)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

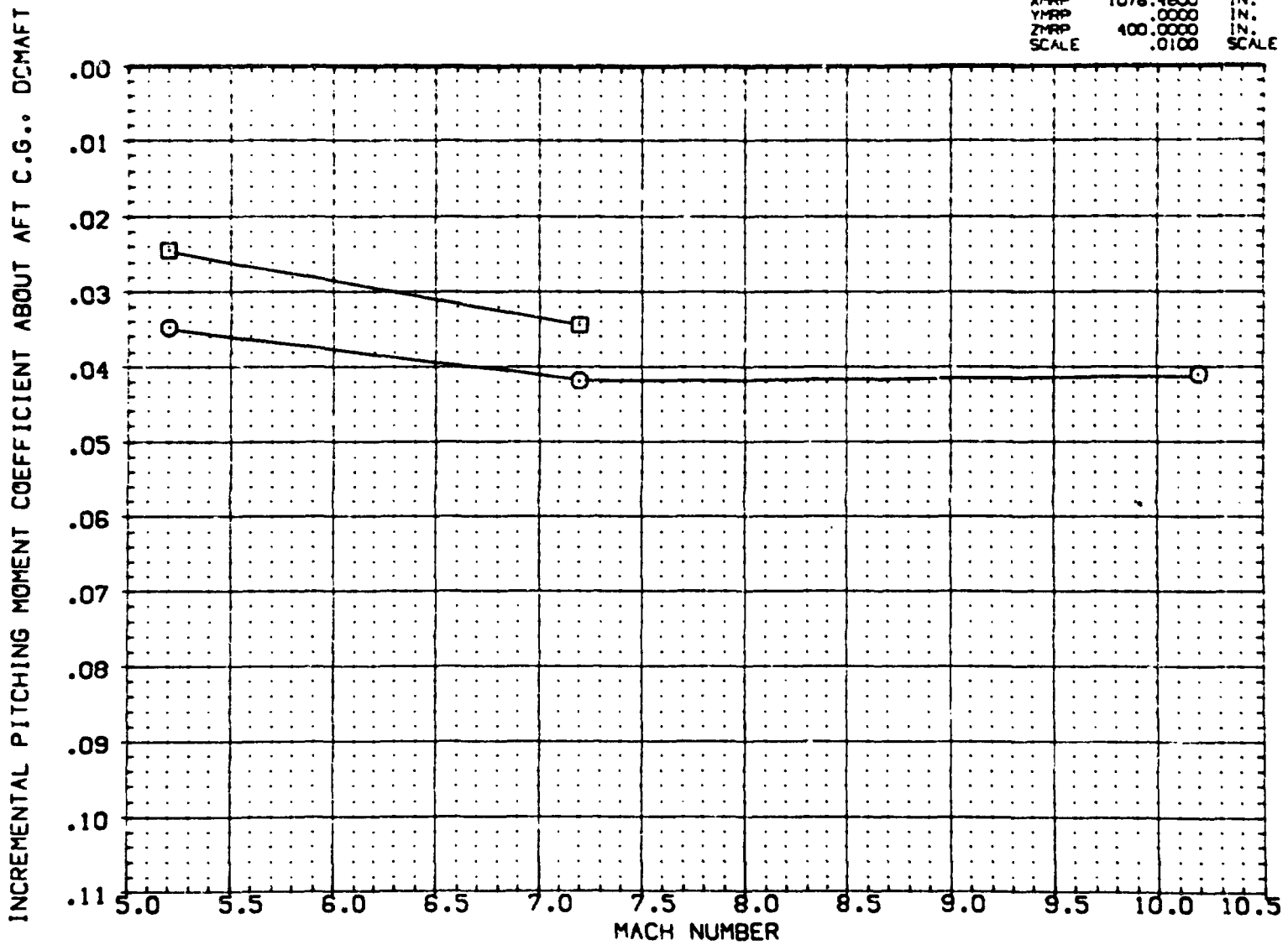


FIG. 7 ELEVON EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86018)	AMES3.5-168 DA23 819 C7 E23 FS H4 N8 R5 V7 V107	-10.000		55.000	.000	SREF 2680.0000 SQ.FT.
(L86020)	AMES3.5-168 DA23 819 C7 E23 FS H4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XHRP 1076.4800 IN.
						YHRP .0000 IN.
						ZHRP 400.0000 IN.
						SCALE .0100 SCALE

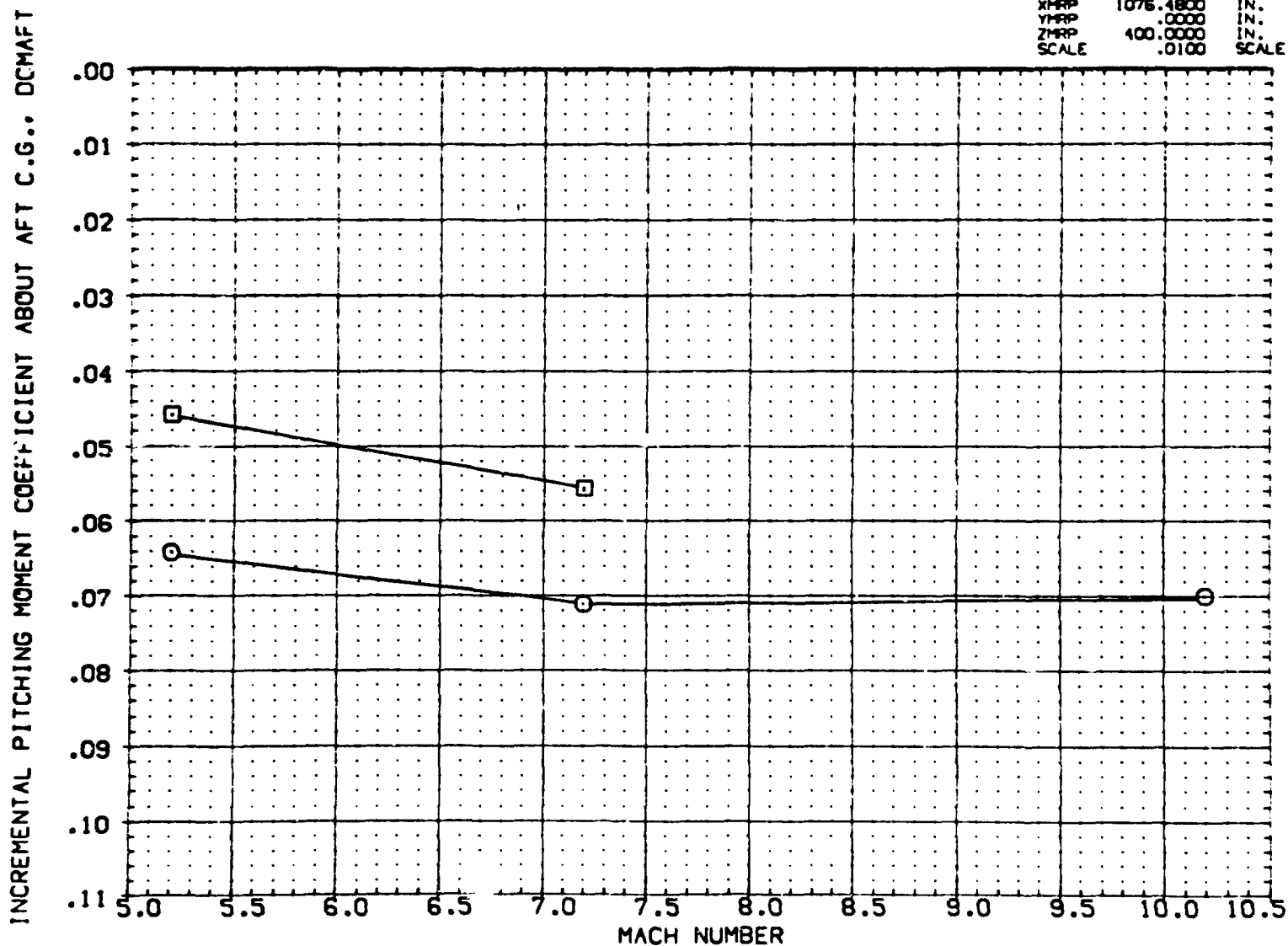


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(O) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(J66C18)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000		55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(J66O20)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-20.000	-14.250	55.000	.000	

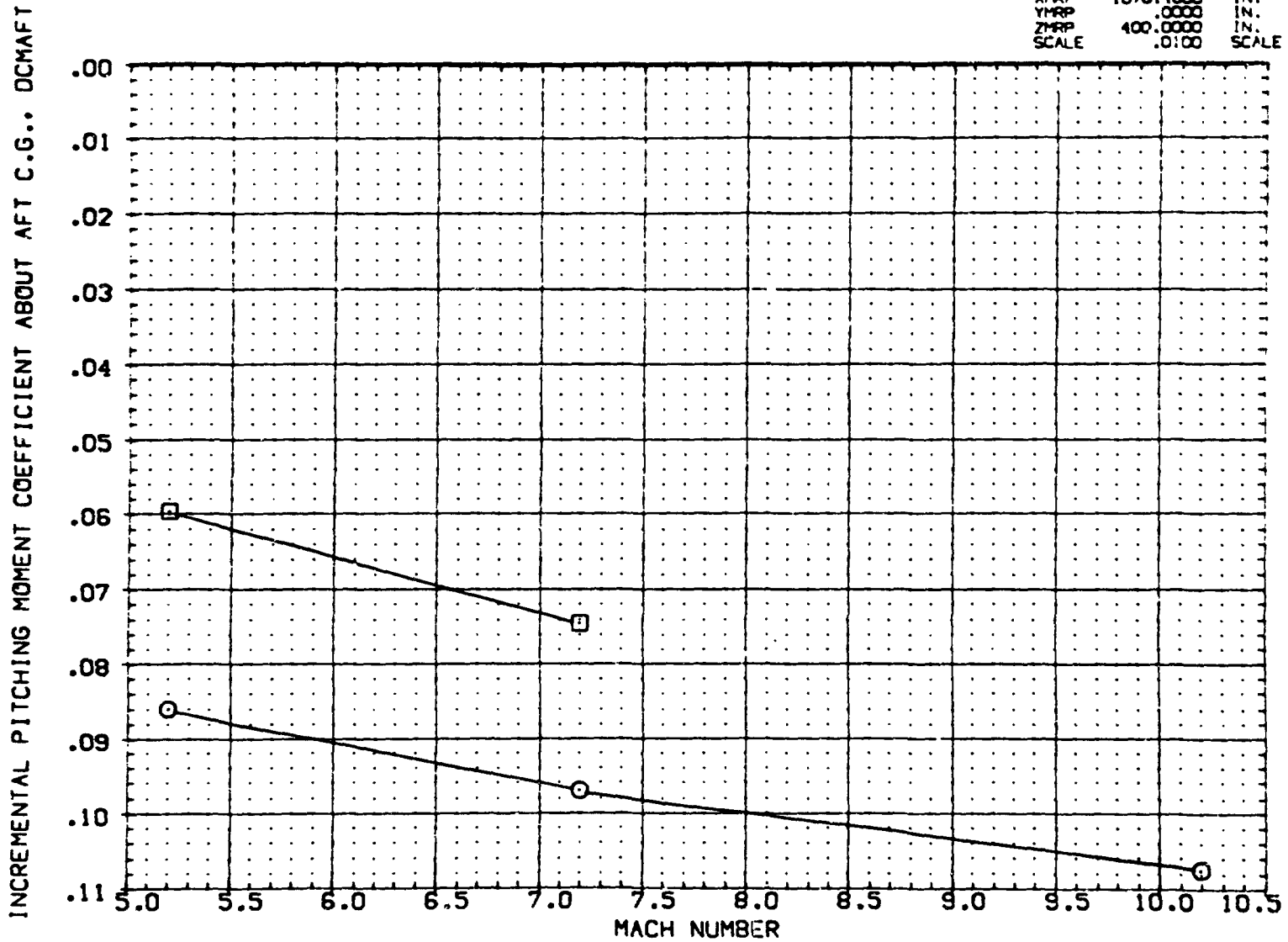


FIG. 7 ELEVON EFFECTS
 (E) ALPHA = 50.00
 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	12.000		5.200	DBF	-14.250	UB6018	DE	UB6012	SREF	2690.0000	50. FT.
□	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6012	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	XMRP	1076.4800	IN.
▽	50.000								YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0100	SCALE

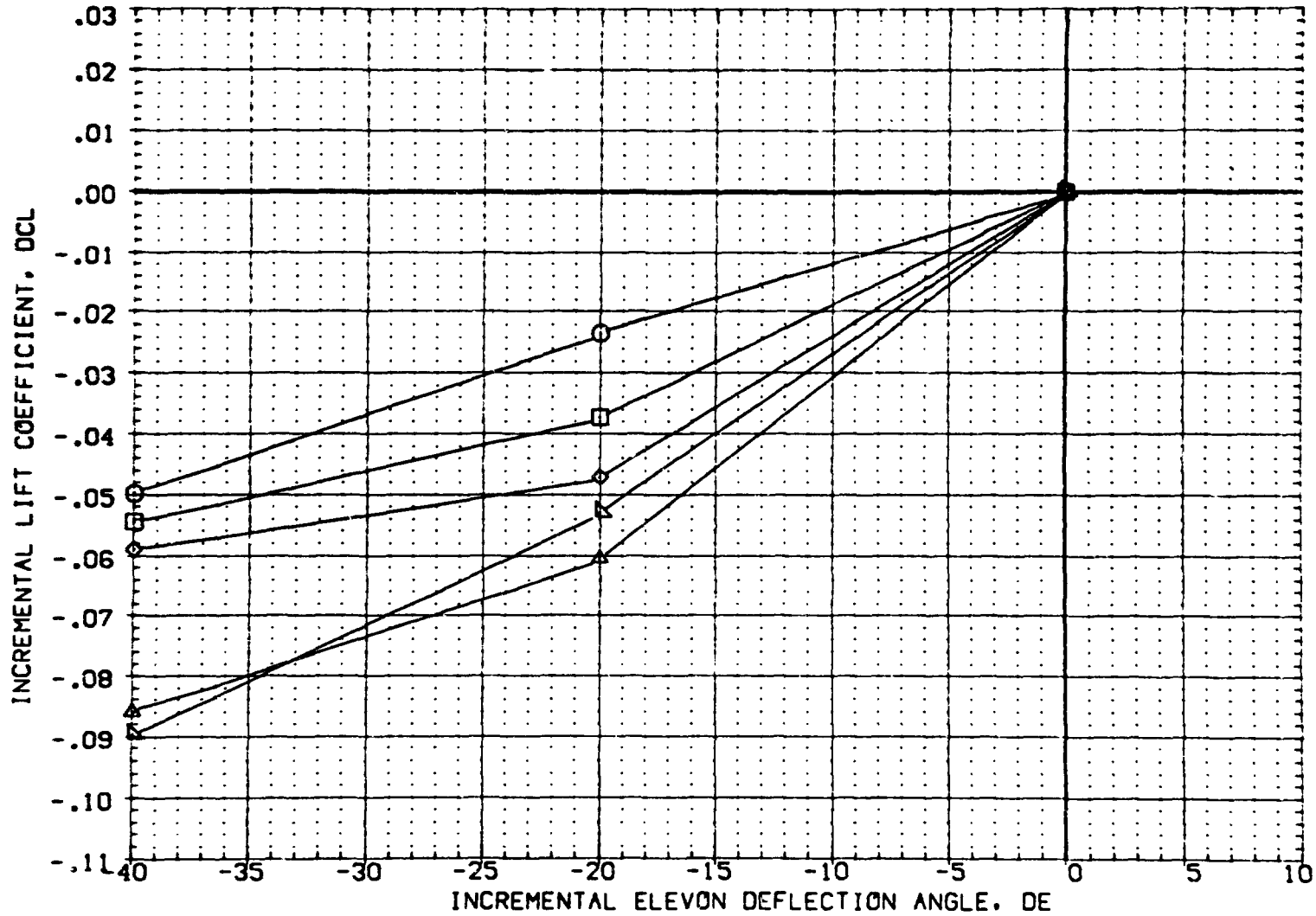


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMESJ.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6016)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
	12.000	MACH	7.200	DEF	-14.250	DE	DE	DE	SREF	2690.0000	50. FT.	
○	20.000	BETA	.000	AILRON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
□	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

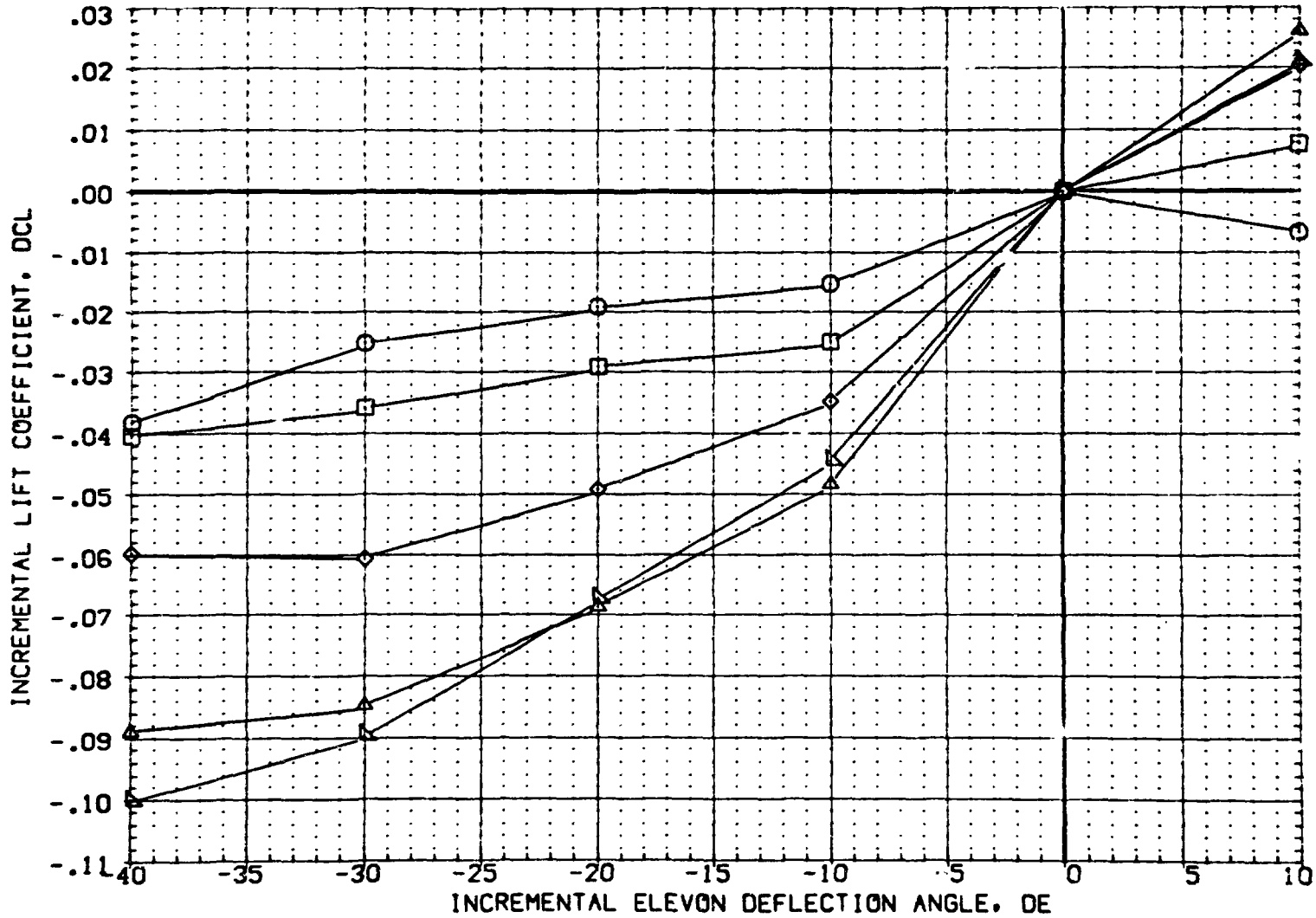


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	12.000	MACH 10.200 DEF -14.250	DATASET DE	SREF 2690.0000 SQ.FT.
□	20.000	BETA .000 AILRON .000	UB6018 -40.000	LREF 474.8000 IN.
◇	30.000	SPOBRK 55.000 RUDDER .000	UB6019 -30.000	BREF 936.6800 IN.
△	40.000		UB6020 -20.000	XMRP 1076.4800 IN.
▽	50.000		UB6012 .000	YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0100 SCALE

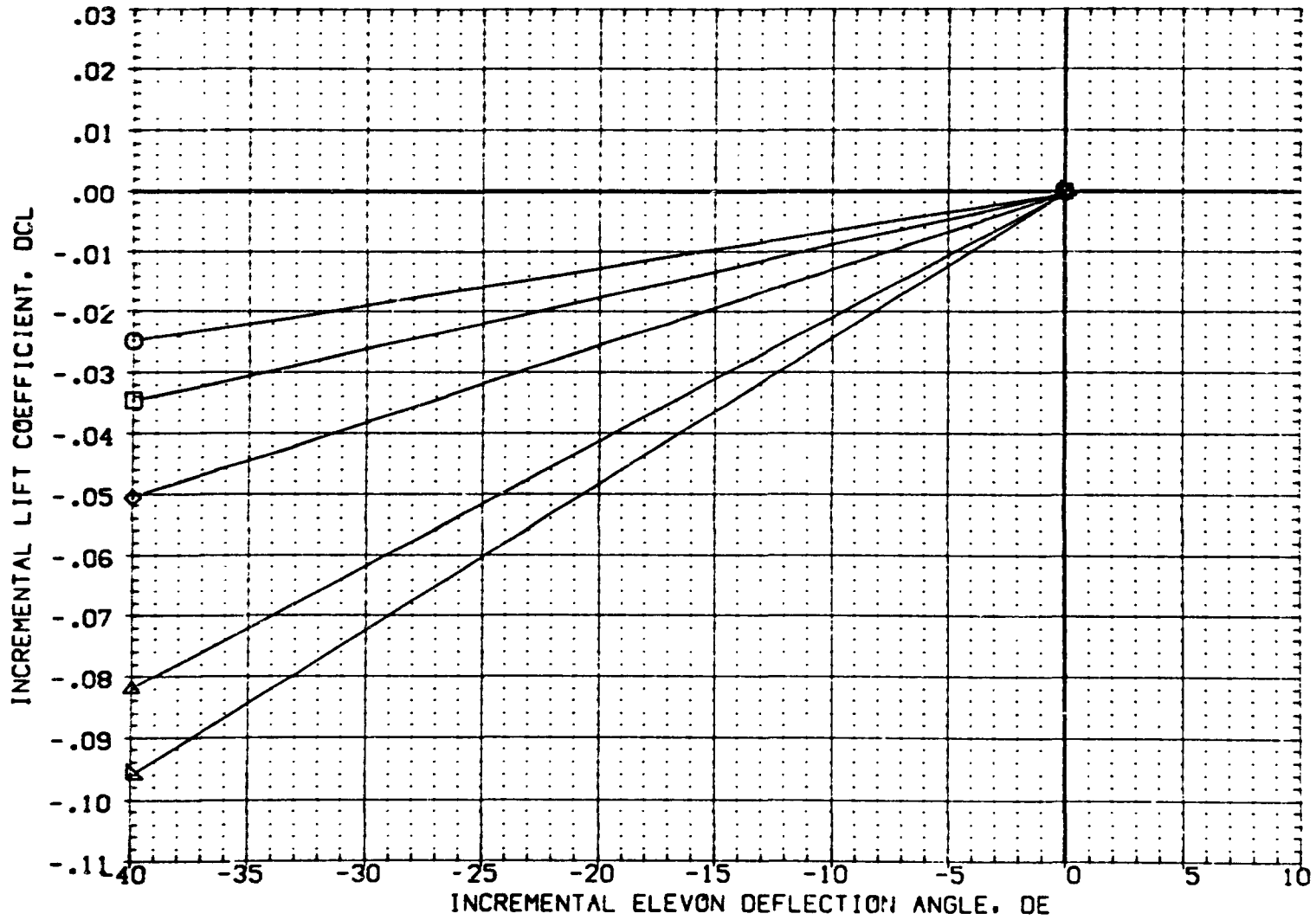


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	12.000	5.200	DBF	-14.250	UB6018	DE	UB6019	DE	SREF	2690.0000	50. FT.
□	20.000	.000	AILRON	.000	UB6020	-40.000	UB6021	-30.000	LREF	474.8000	IN.
◇	30.000	55.000	RUDDER	.000	UB6012	-20.000	UB6013	10.000	BREF	936.6800	IN.
△	40.000								XMRP	1076.4800	IN.
▽	50.000								YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0100	SCALE

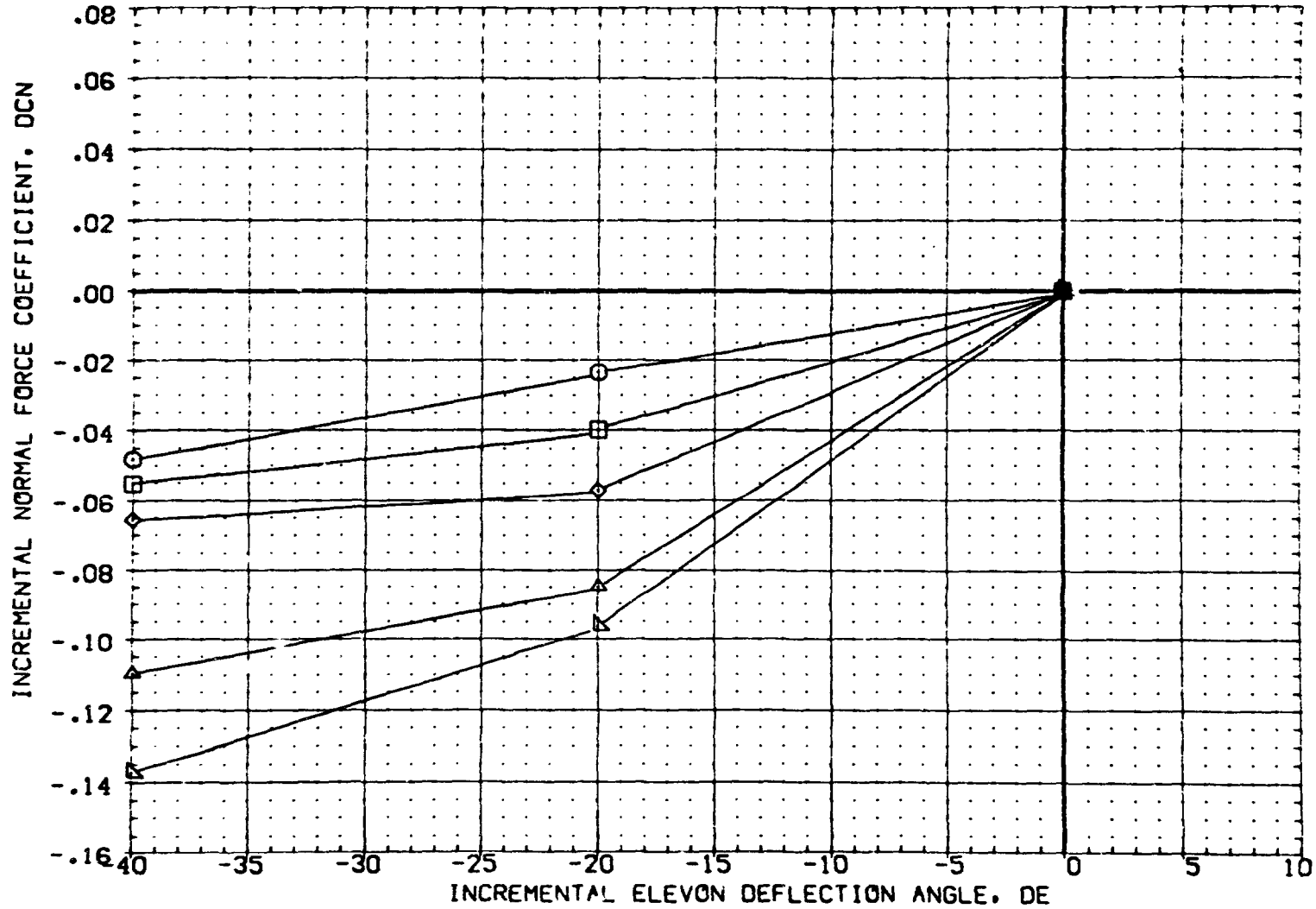


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		7.200	DEF	-14.250	UB6018	DE	UB6019	-30.000	SREF	2690.0000	50.FT.
□	20.000	BETA	.000	AILRON	.000	UB6020		UB6021	-10.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6012		UB6013	10.000	BRFF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

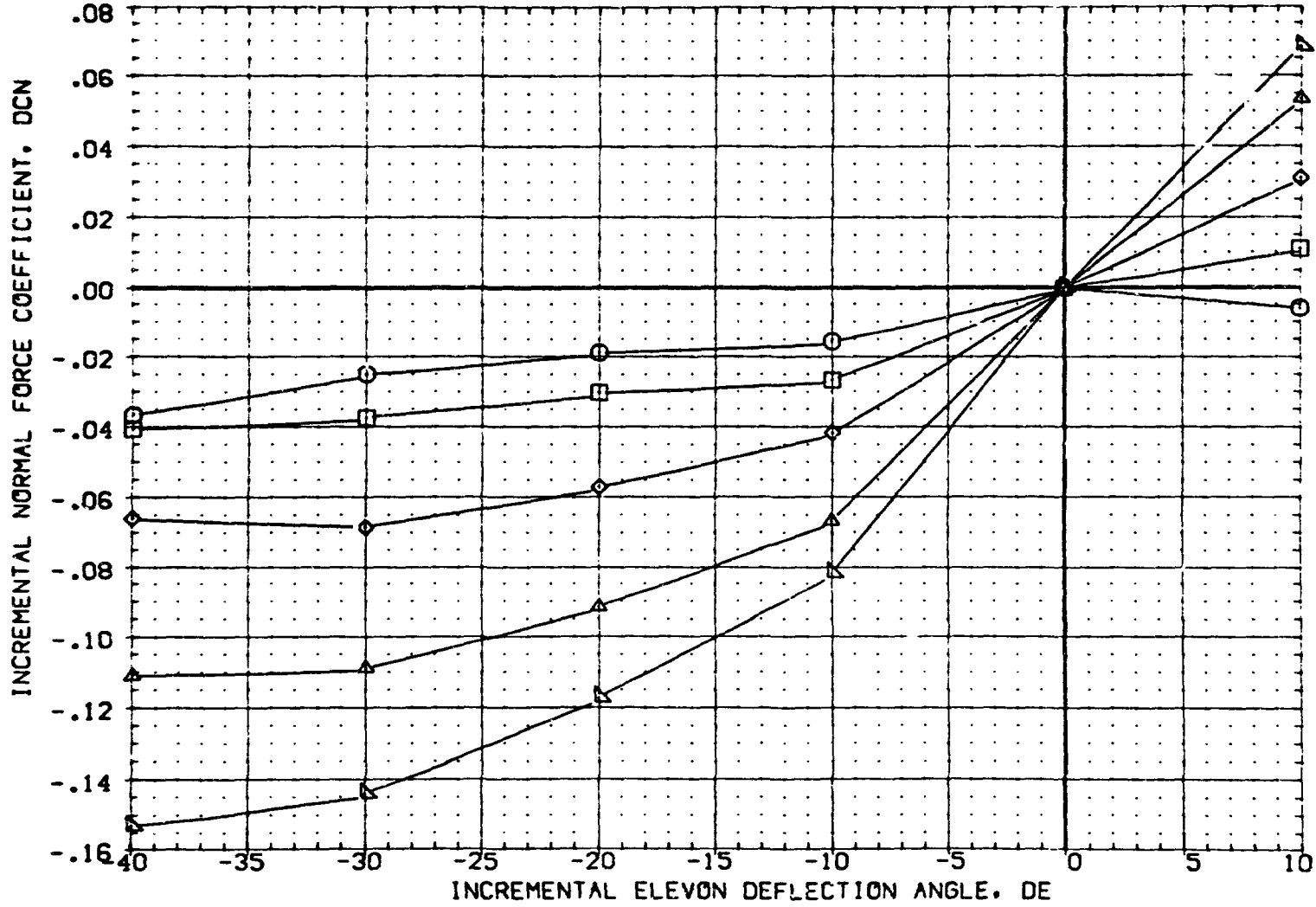


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	12.000	MACH 10.200 DBF -14.250 DATASET DE	UB6018	SREF 2690.0000 SQ.FT.
□	20.000	BETA .000 AILRON .000	UB6019	LREF 474.8000 IN.
◇	30.000	SPDBRK 55.000 RUDDER .000	UB6021	BREF 936.6800 IN.
△	40.000		UB6012	XMRP 1076.4800 IN.
▽	50.000			YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0100 SCALE

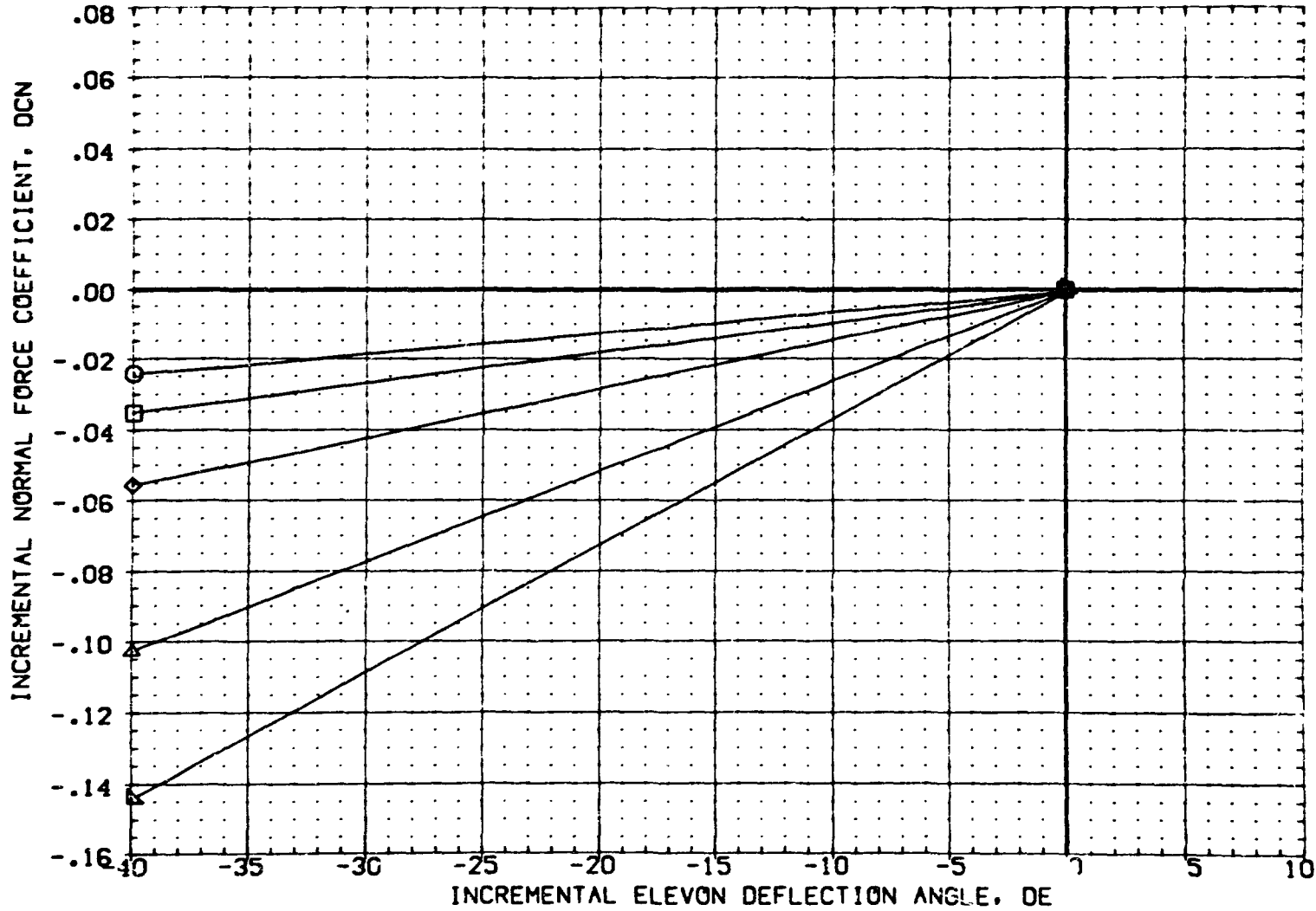


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		5.200	DBF	-14.250	UB6018	-40.000	UB6019	-30.000	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	AILERON	.000	UB6020	-20.000	UB6021	-10.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6012	.000	UB6013	10.000	BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

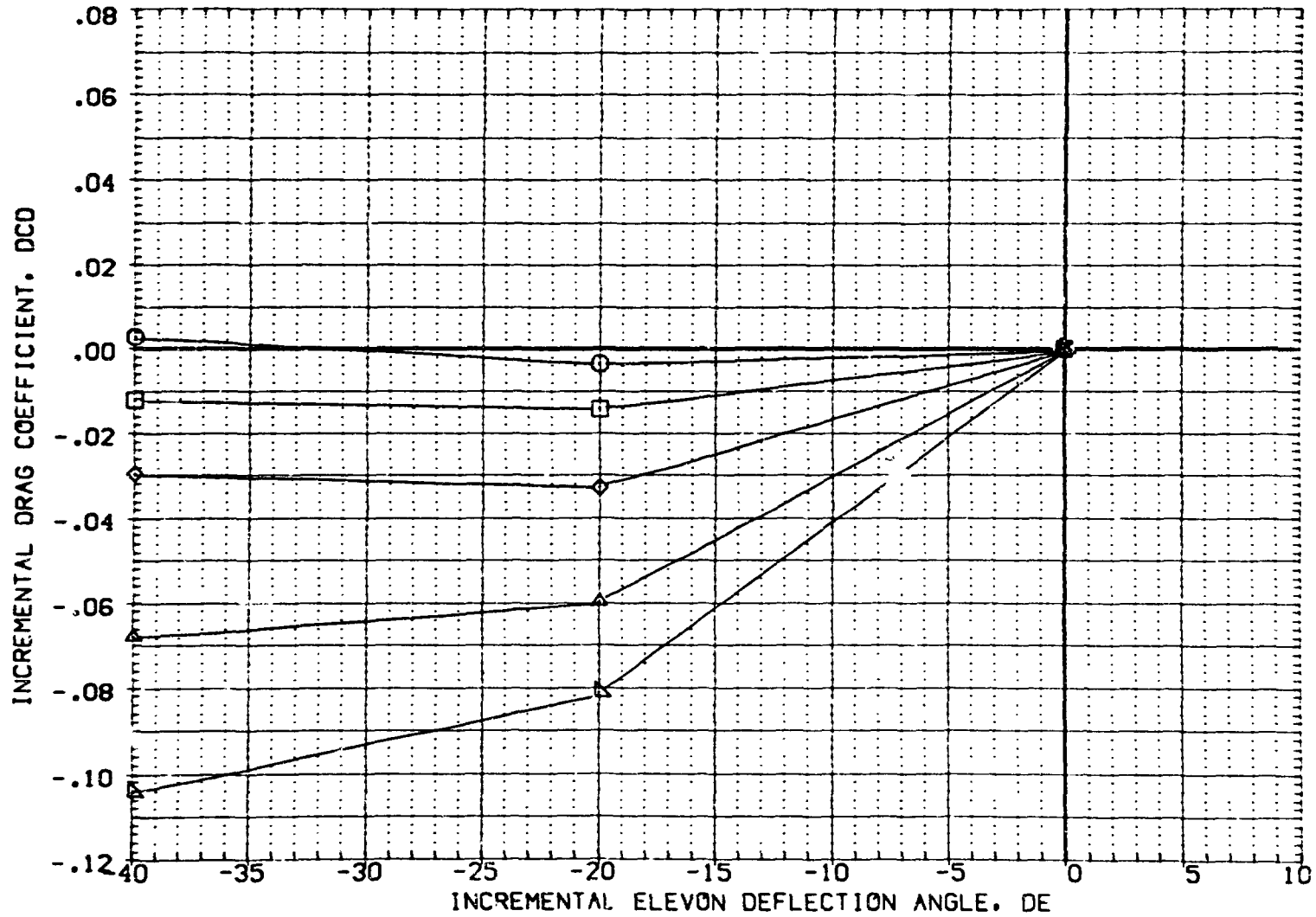


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
	12.000	MACH	7.200	DBF	-14.250	UB6018	DE	UB6019	DE	SREF	2690.0000	SO.FT.
○	20.000	BETA	.000	AILRON	.000	UB6020	-10.000	UB6021	-10.000	LREF	474.8000	IN.
□	30.000	SPOBRK	55.000	RUDDER	.000	UB6012	-20.000	UB6013	10.000	BREF	936.6800	IN.
◇	40.000									XMRP	1076.4800	IN.
△	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

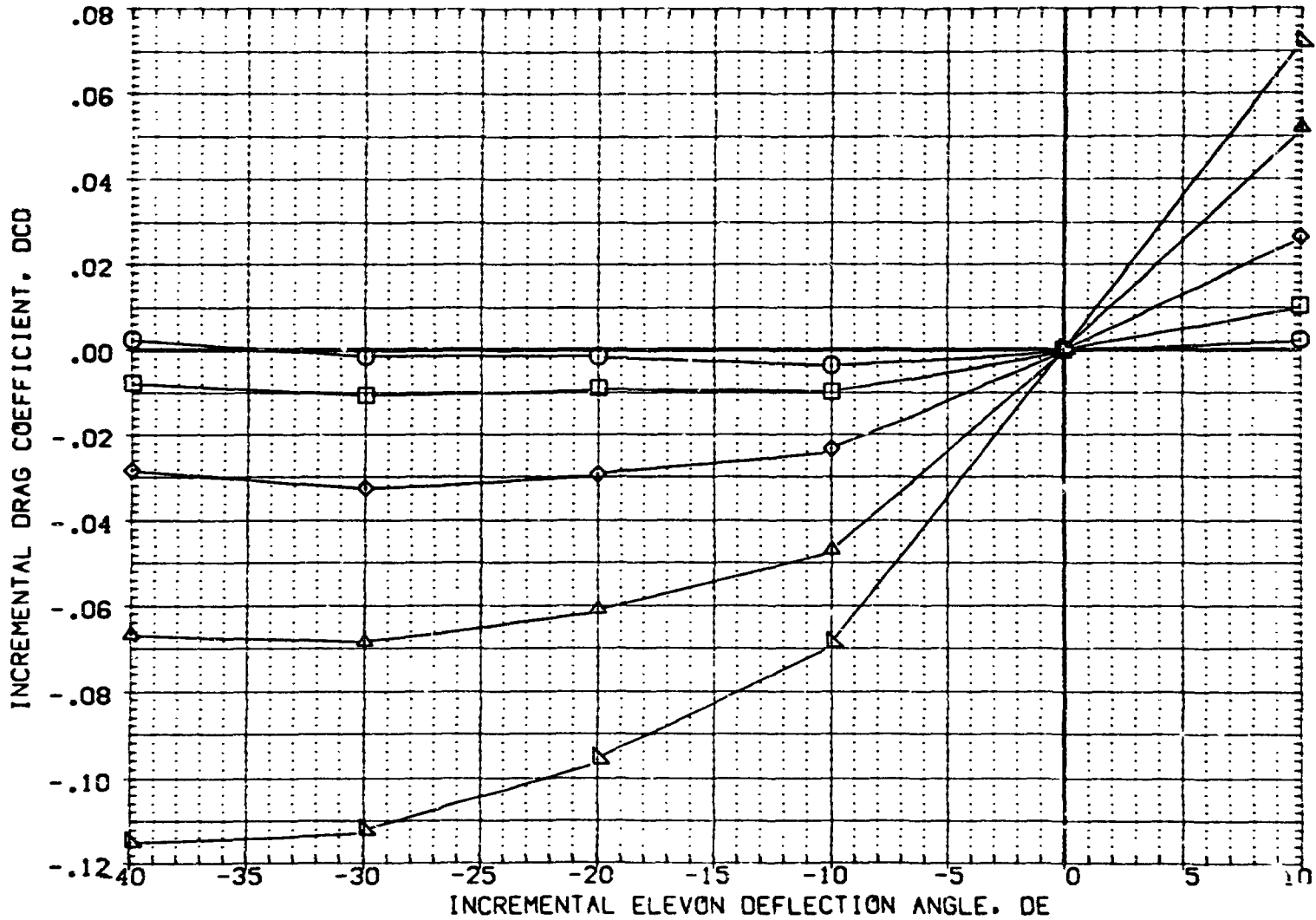


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		10.200	DEF	-14.250	UB6018	-40.000	UB6019	-30.000	SREF	2690.0000	50. FT.
□	20.000	BETA	.000	AIRLN	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

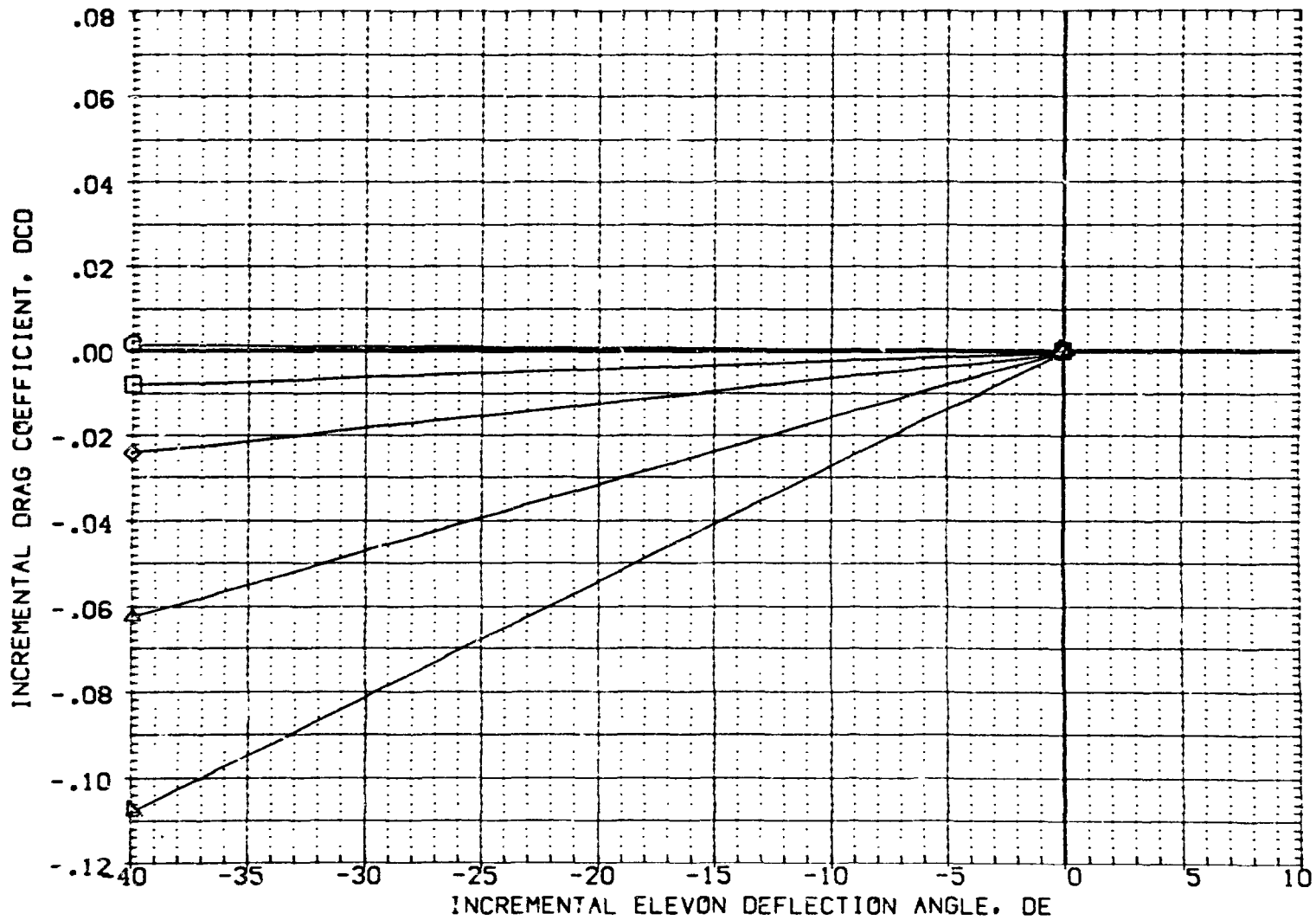


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
○	12.000	MACH 5.200 DEF -14.250	DATASET DE	SREF 2690.0000 SQ.FT.
□	20.000	BETA .000 AILRON .000	UB6018 -40.000	LREF 474.6000 IN.
◇	30.000	SPOBRN 55.000 RUDDER .000	UB6019 -30.000	BREF 936.6800 IN.
△	40.000		UB6021 -10.000	XMRP 1076.4800 IN.
▽	50.000		UB6012 .000	YMRP .0000 IN.
				ZMRP 400.0000 IN.
				SCALE .0100 SCALE

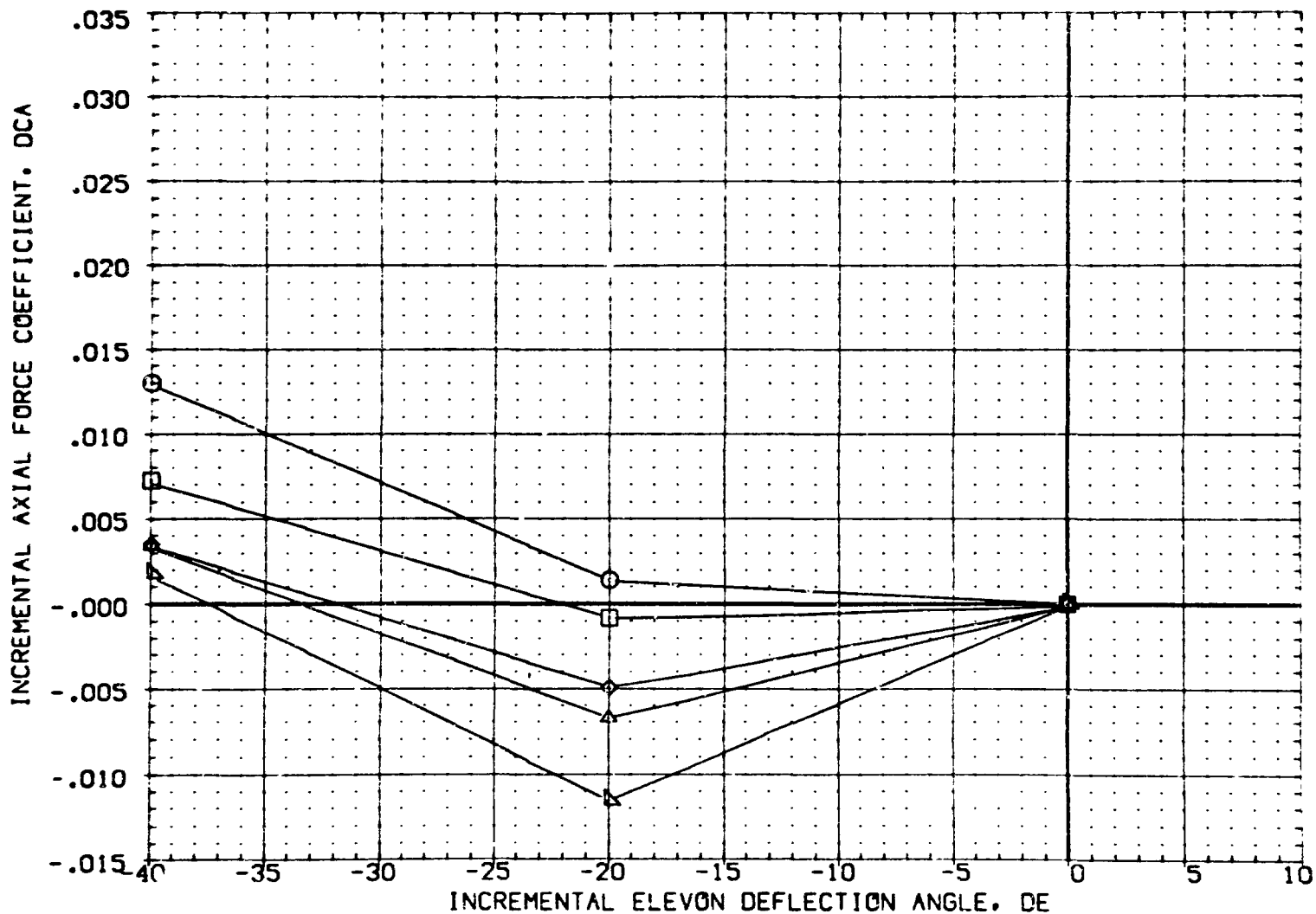


FIG. 7 ELEVON EFFECTS

1396 CONFIGURATION (0.010-SCALE).

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	12.000		7.200	DBF	-14.250	UB6018	DE	-40.000	SREF	2690.0000	50. FT.
□	20.000	BETA	.000	AILRON	.000	UB6019	DE	-30.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	DE	-10.000	BREF	936.6800	IN.
△	40.000					DB6012	DE	10.000	XMRP	1076.4800	IN.
▽	50.000								YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0100	SCALE

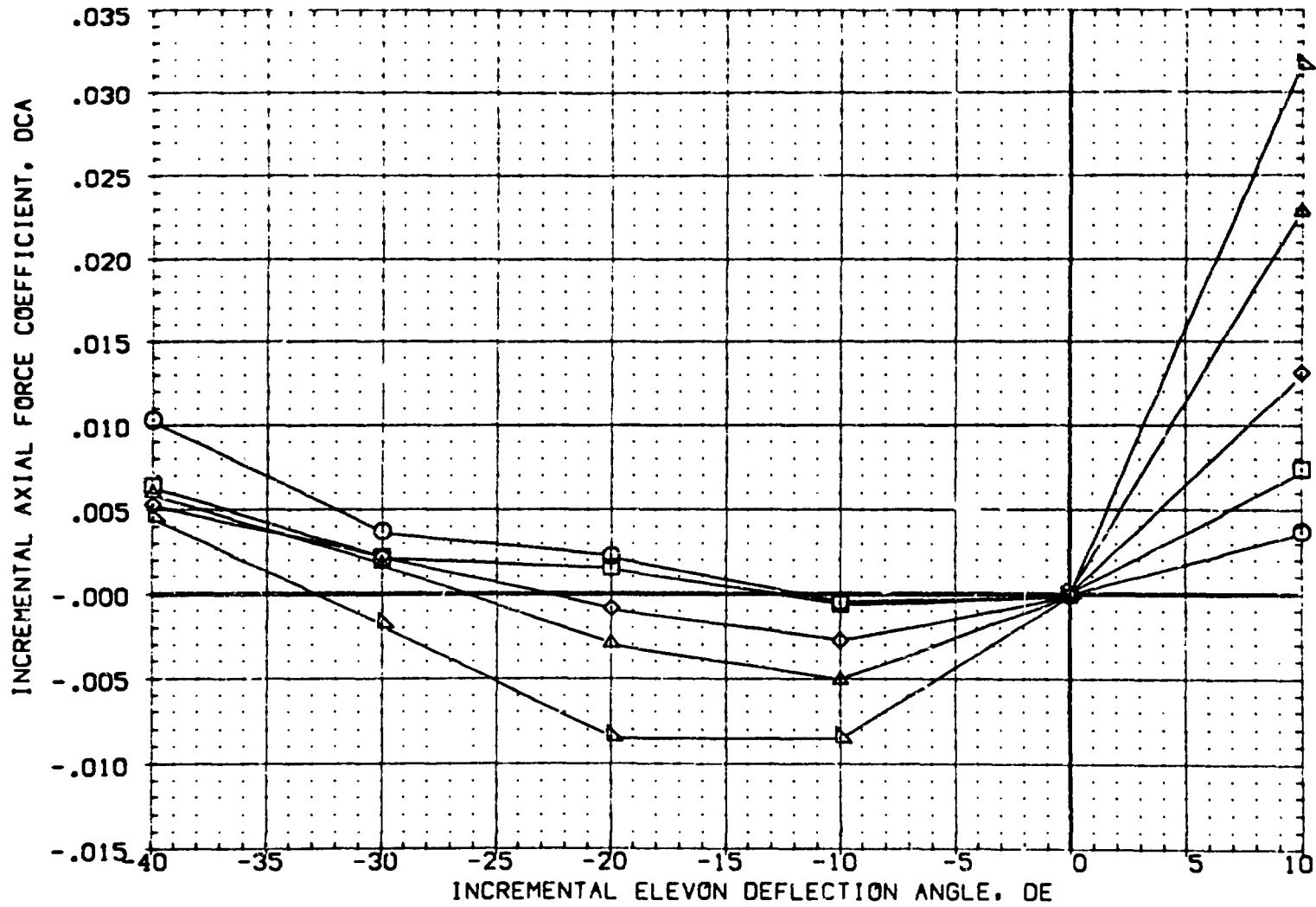


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	12.000	MACH	10.200	DBF	-14.250	DATASET	DE	DATASET	DE	SREF	2690.0000	50.FT.
○	20.000	BETA	.000	AILERON	.000	UB6018	-40.000	UB6019	-30.000	LREF	474.8000	IN.
□	30.000	SPOBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	-10.000	BREF	936.6800	IN.
◇	40.000					DB6012	.000	UB6013	10.000	XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0:00	SCALE

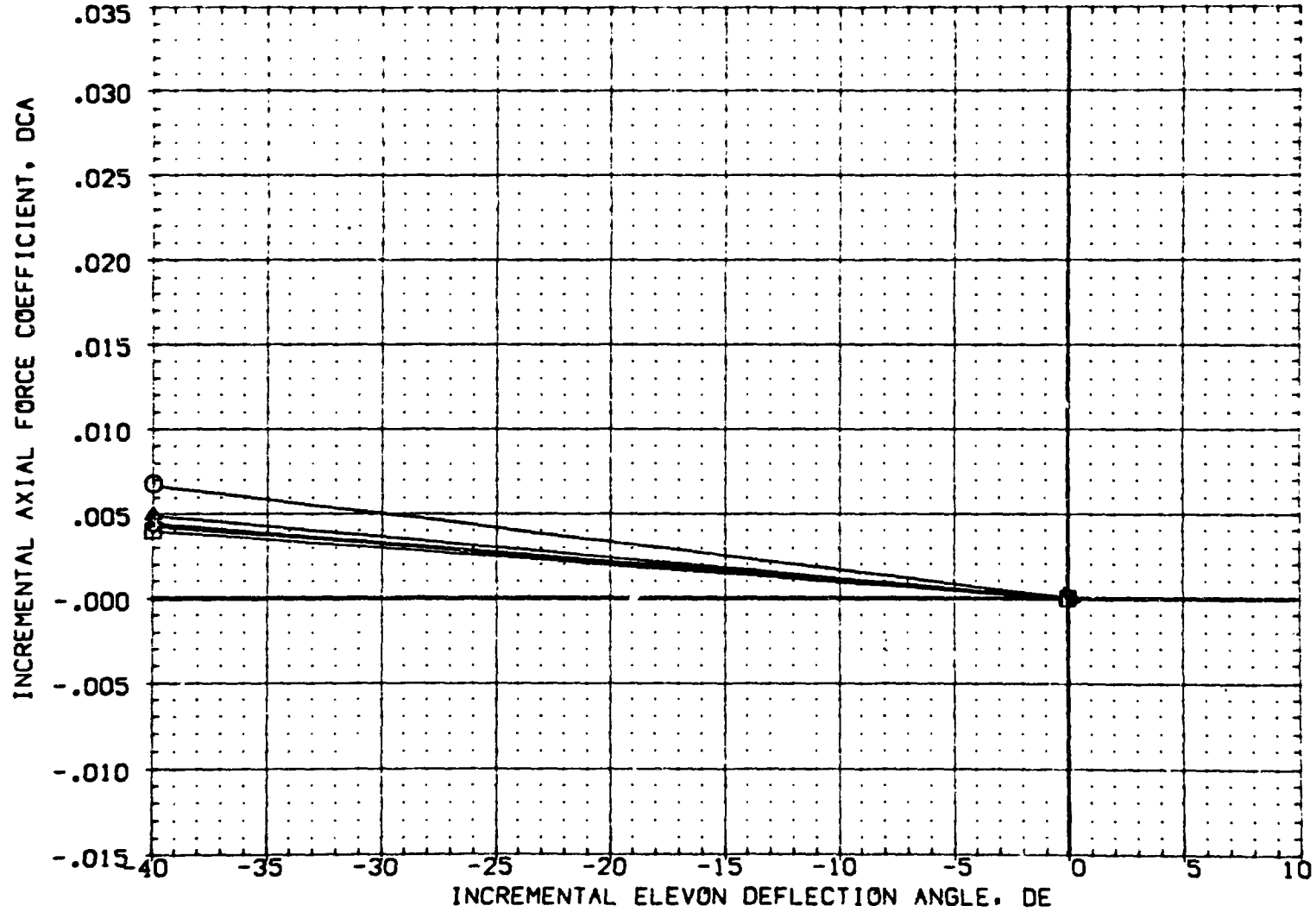


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION				
○	12.000		5.200	DRF	-14.250	UB6018	DE	-10.000	UB6019	-30.000	SREF	2690.0000	50. FT.
□	20.000	BETA	.000	AIRLON	.000	UB6020	DE	-20.000	UB6021	-10.000	LREF	474.8000	IN.
◇	30.000	SPDRK	55.000	RUDDER	.000	UB6012	DE	.000	UB6013	10.000	BREF	936.6800	IN.
△	40.000										XMRP	1076.4800	IN.
▽	50.000										YMRP	.0000	IN.
											ZMRP	400.0000	IN.
											SCALE	.0100	SCALE

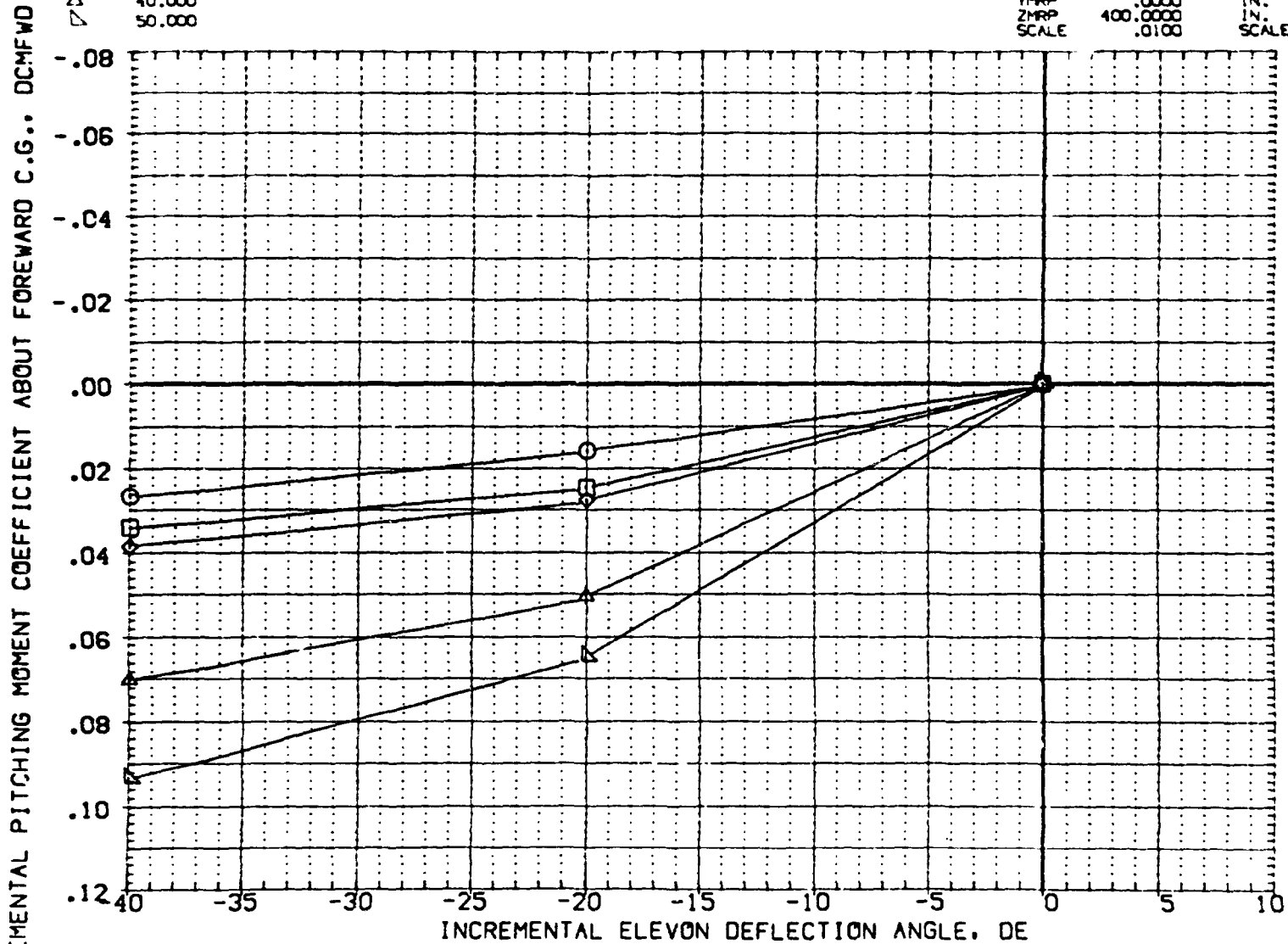


FIG. 7 ELEVON EFFECTS 139B CONFIGURATION (0.010-SCALE).



AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		7.200	DEF	-14.250	UB6018	DE	UB6019	-30.000	SREF	2690.0000	50.F.T.
□	20.000	BETA	.000	AIRLN	.000	UB6020	-40.000	UB6021	-10.000	LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6012	-20.000	UB6013	10.000	BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FORWARD C.G. DCMFWD

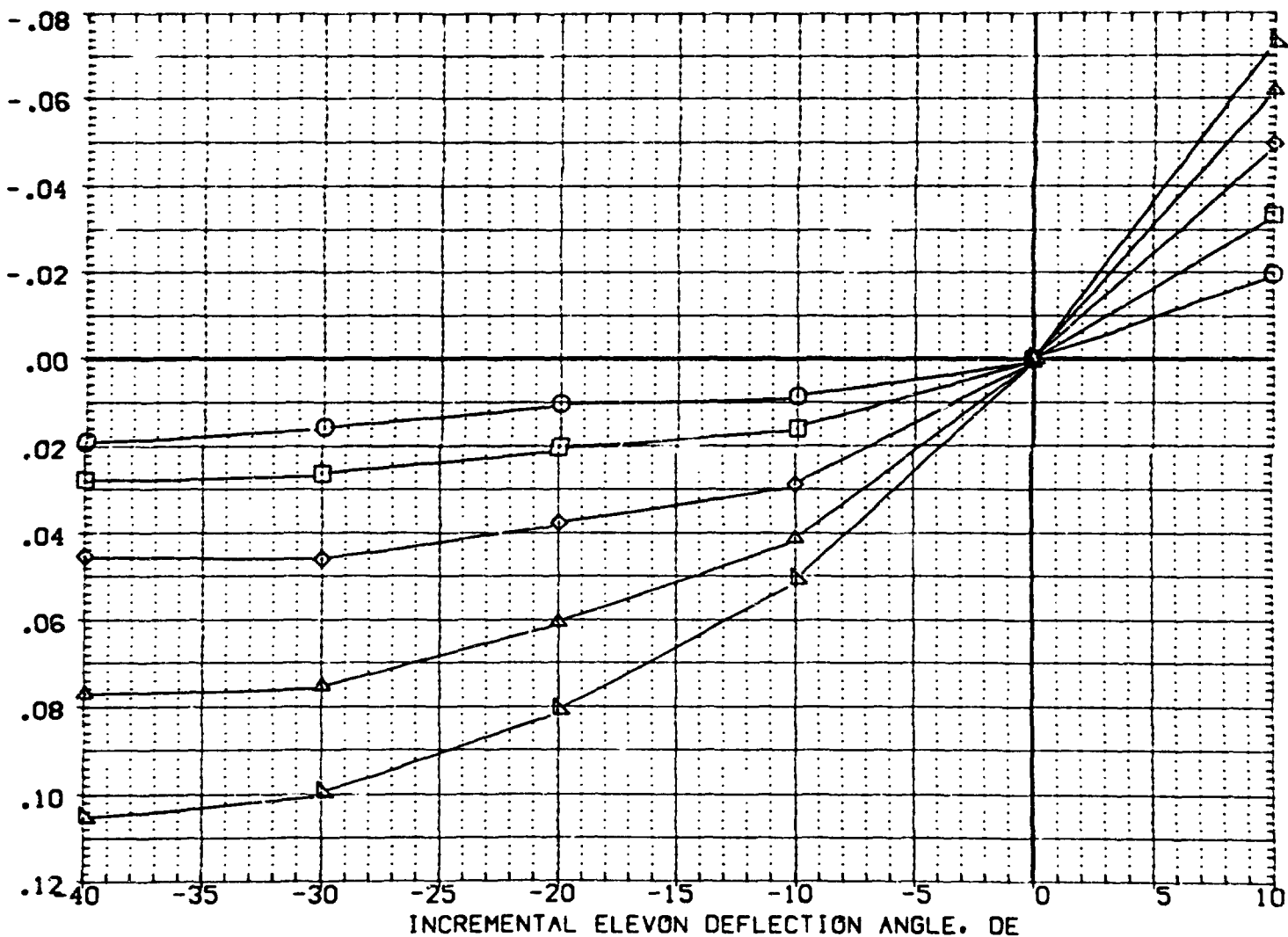


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5 168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	12.000		10.200	DBF	-14.250	UB6018	DE	DE	SREF	2690.0000	SQ.FT.
□	20.000	BETA	.000	A'LRON	.000	UB6018	-40.000	UB6015	LREF	474.8000	IN.
◇	30.000	SPDBRK	55.000	RUDDER	.000	UB6020	-20.000	UB6021	BREF	936.6800	IN.
△	40.000					UB6012	.000	UB6013	XMRP	1076.4800	IN.
▽	50.000								YMRP	.0000	IN.
									ZMRP	400.0000	IN.
									SCALE	.0100	SCALE

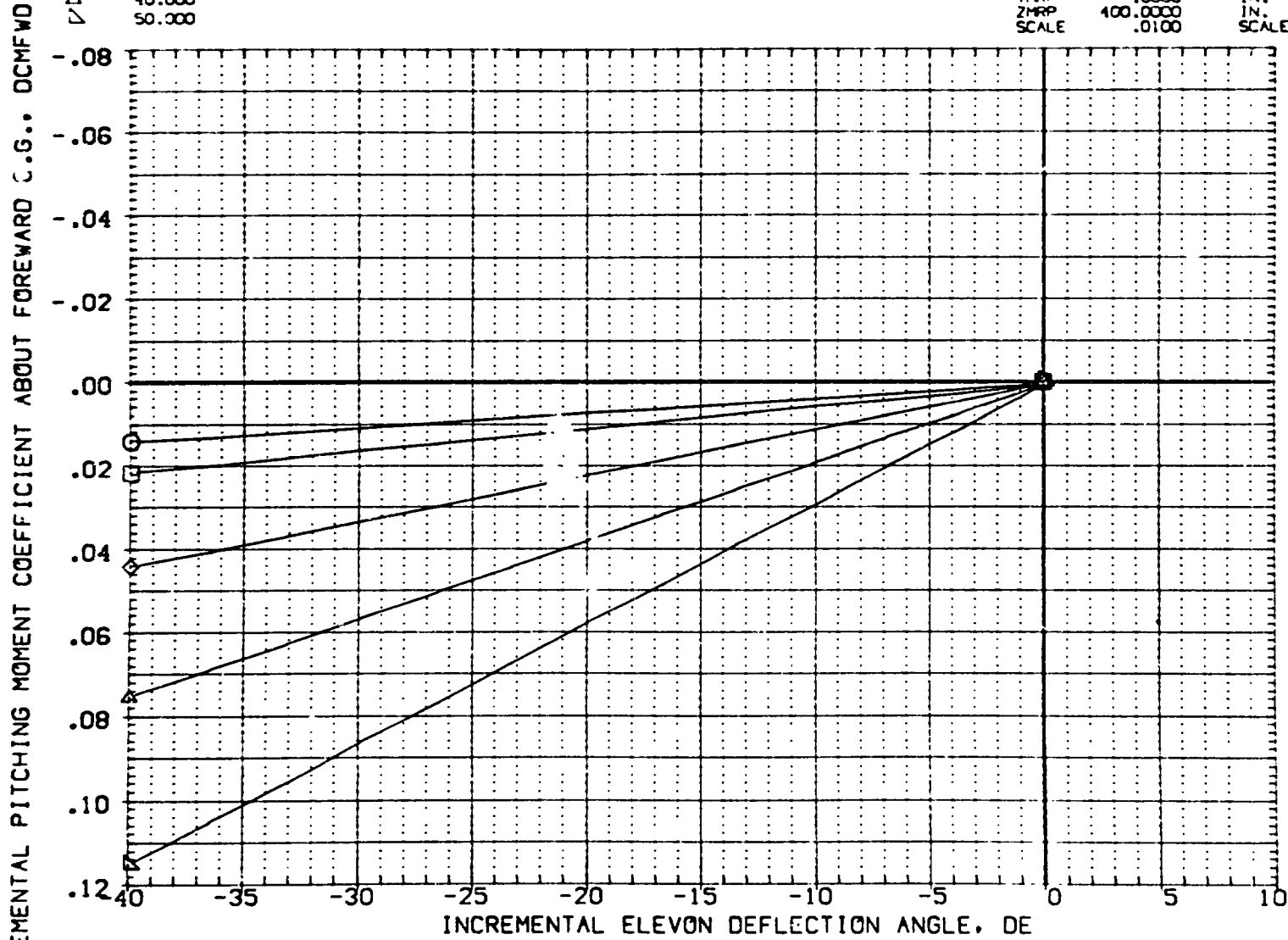


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		5.200	DBF	-14.250	UB6018	DE	UB6019	-30.000	SREF	2690.0000	SQ.FT.
◇	20.000	BETA	.000	AILERON	.000	UB6020	DE	UB6021	-10.000	LREF	474.8000	IN.
□	30.000	SPOBRN	55.000	RUDDER	.000	UB6012	DE	UB6013	10.000	BREF	936.6300	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT AFT C.G.: DCMAFT

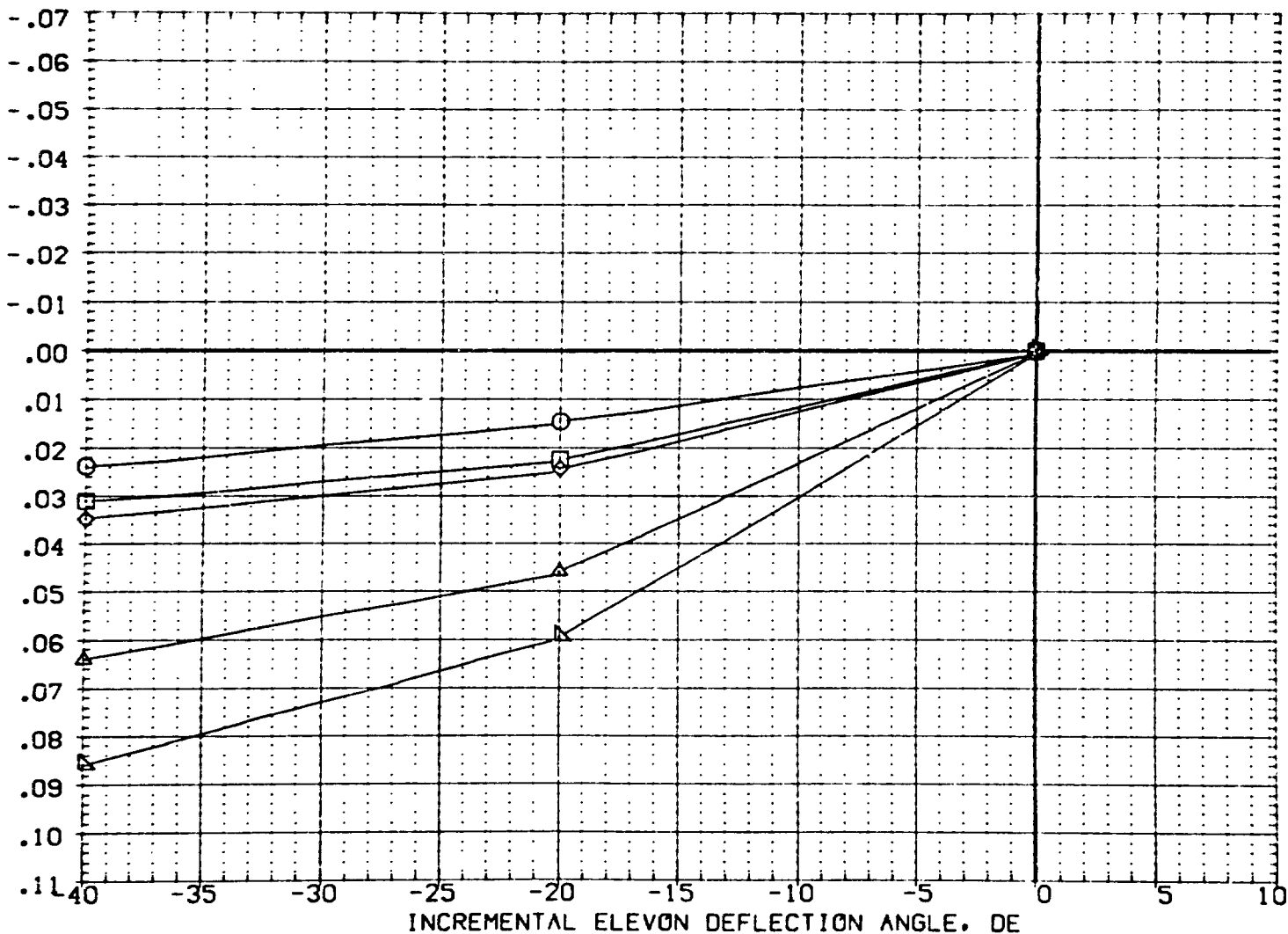


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

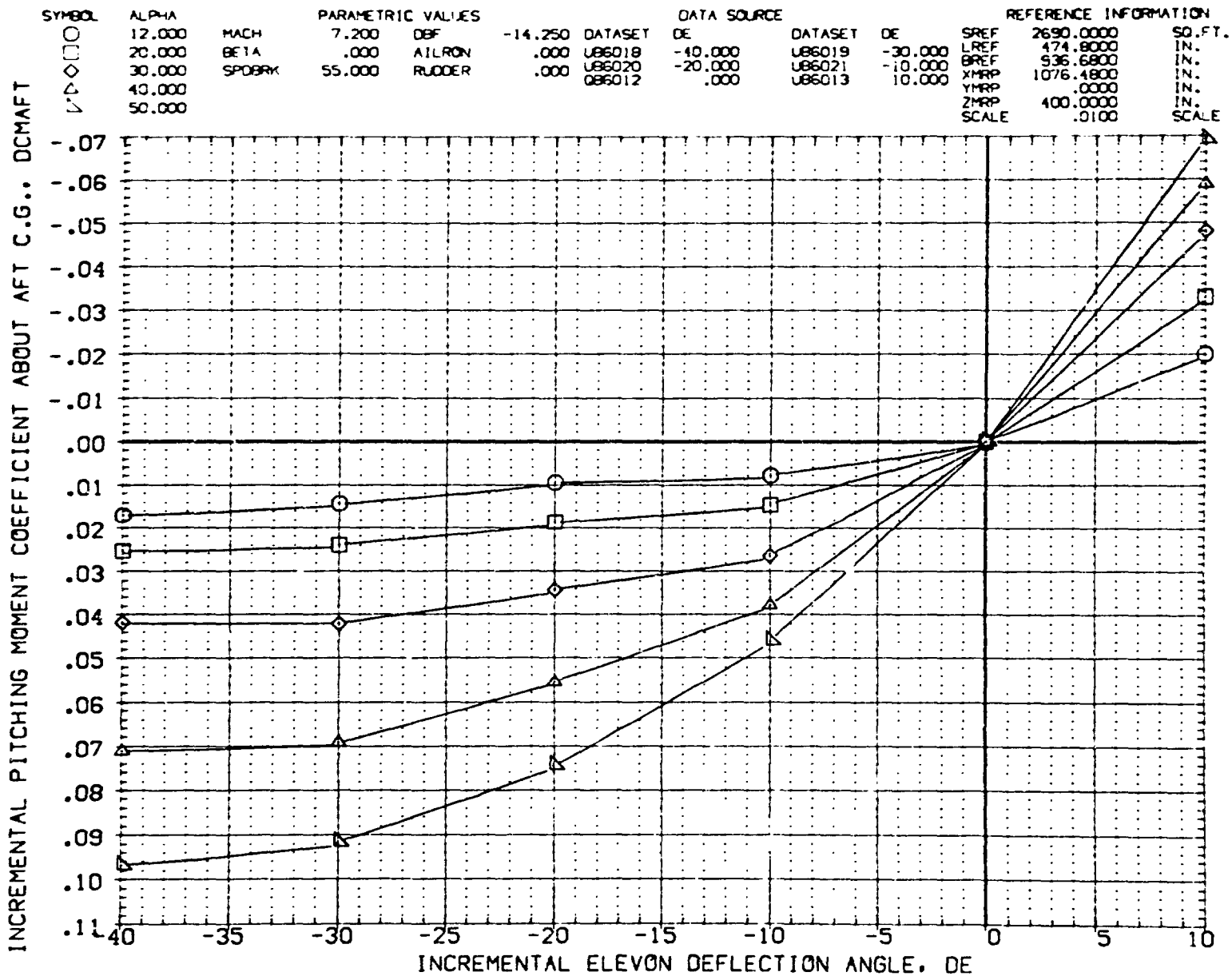


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6018)

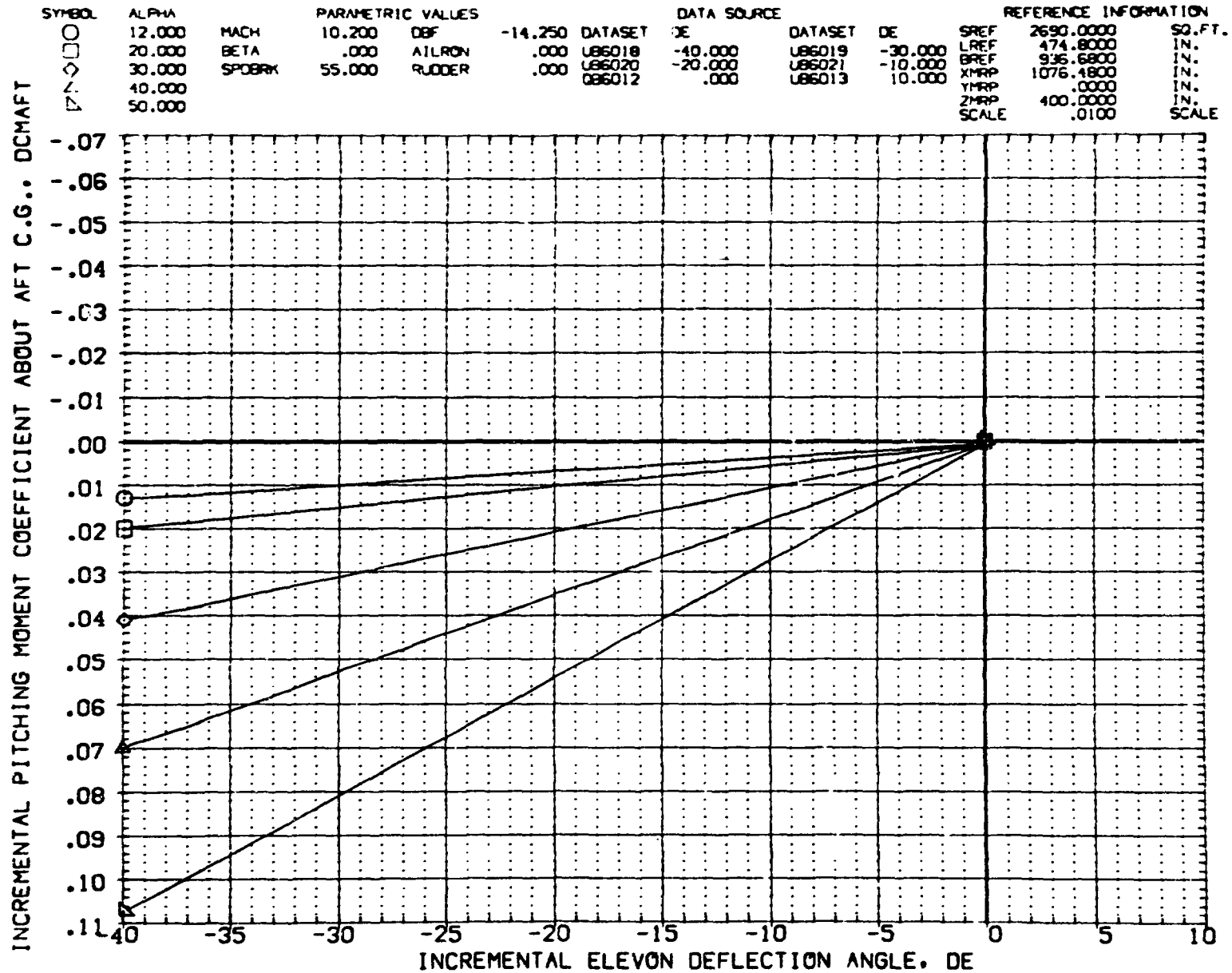


FIG. 7 ELEVON EFFECTS

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION	
(C86012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-11.250	55.000	.000	SREF	2690.0000 SQ.FT.
(C86010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000 IN.
(C86011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

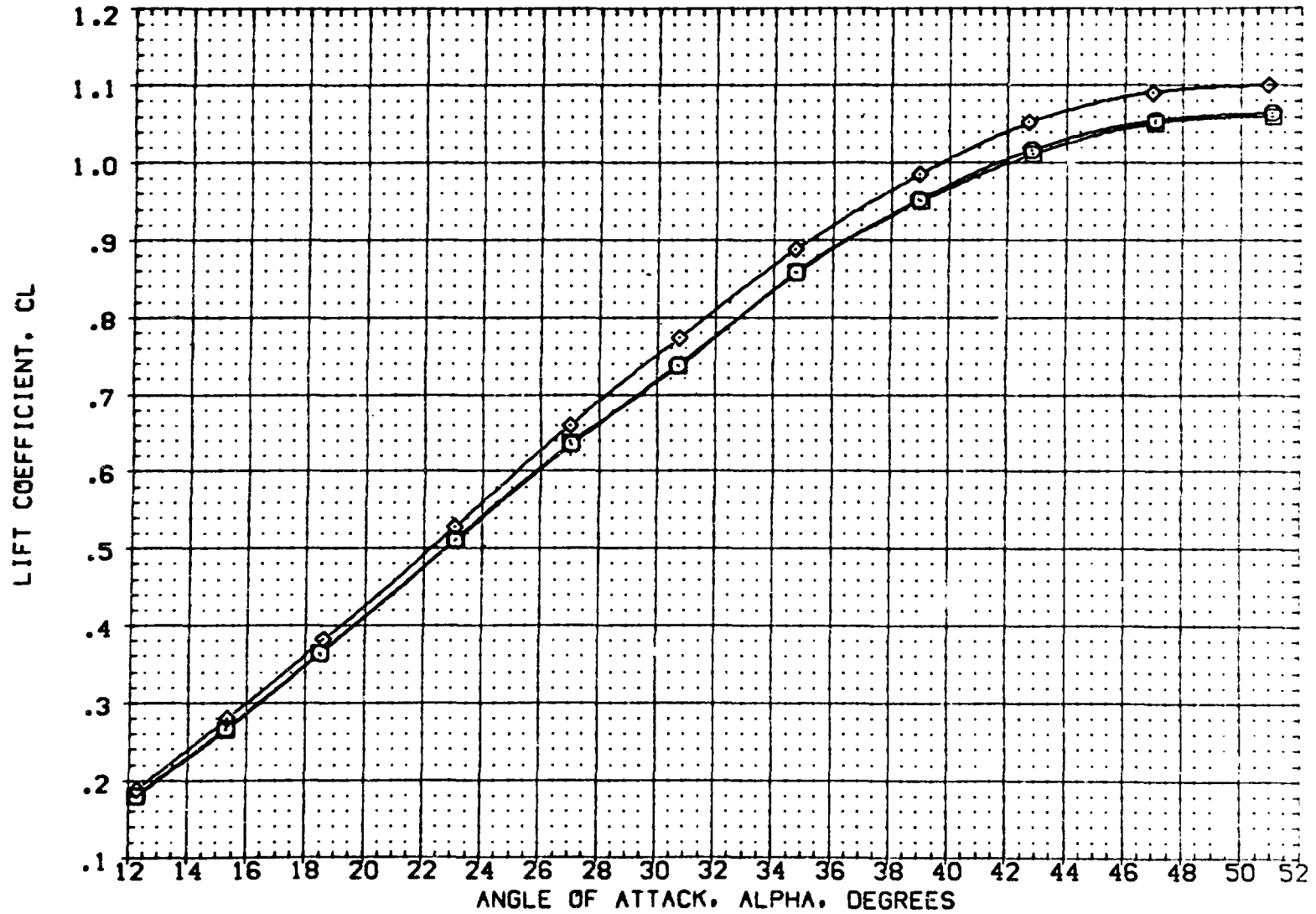


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SCALE
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800
						XMRP 1076.4800
						YMRP .0000
						ZMRP 400.0000
						SCALE .0100 SCALE

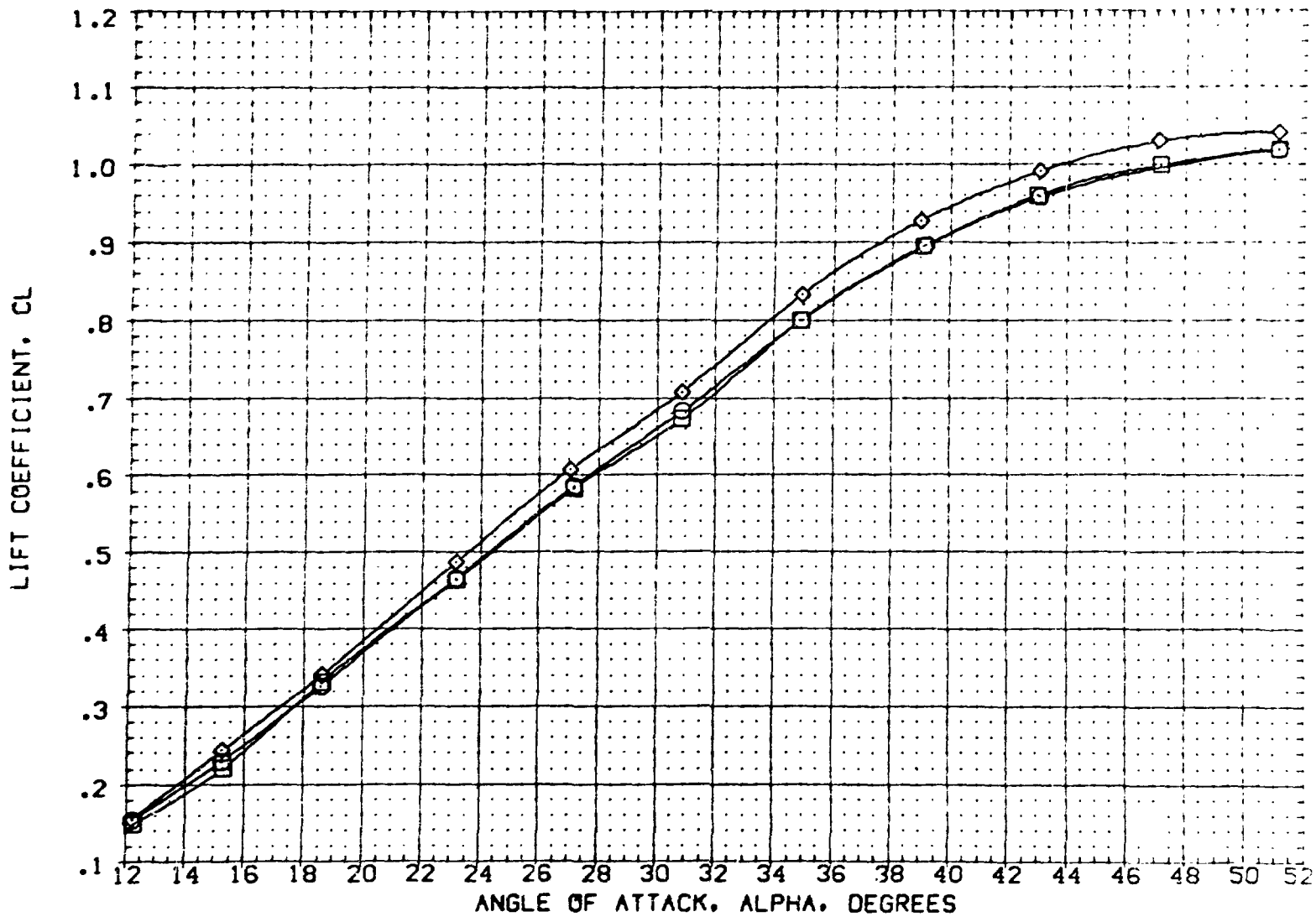


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32 PAGE 423

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 938.6800 IN.
						XMRP 1076.4900 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

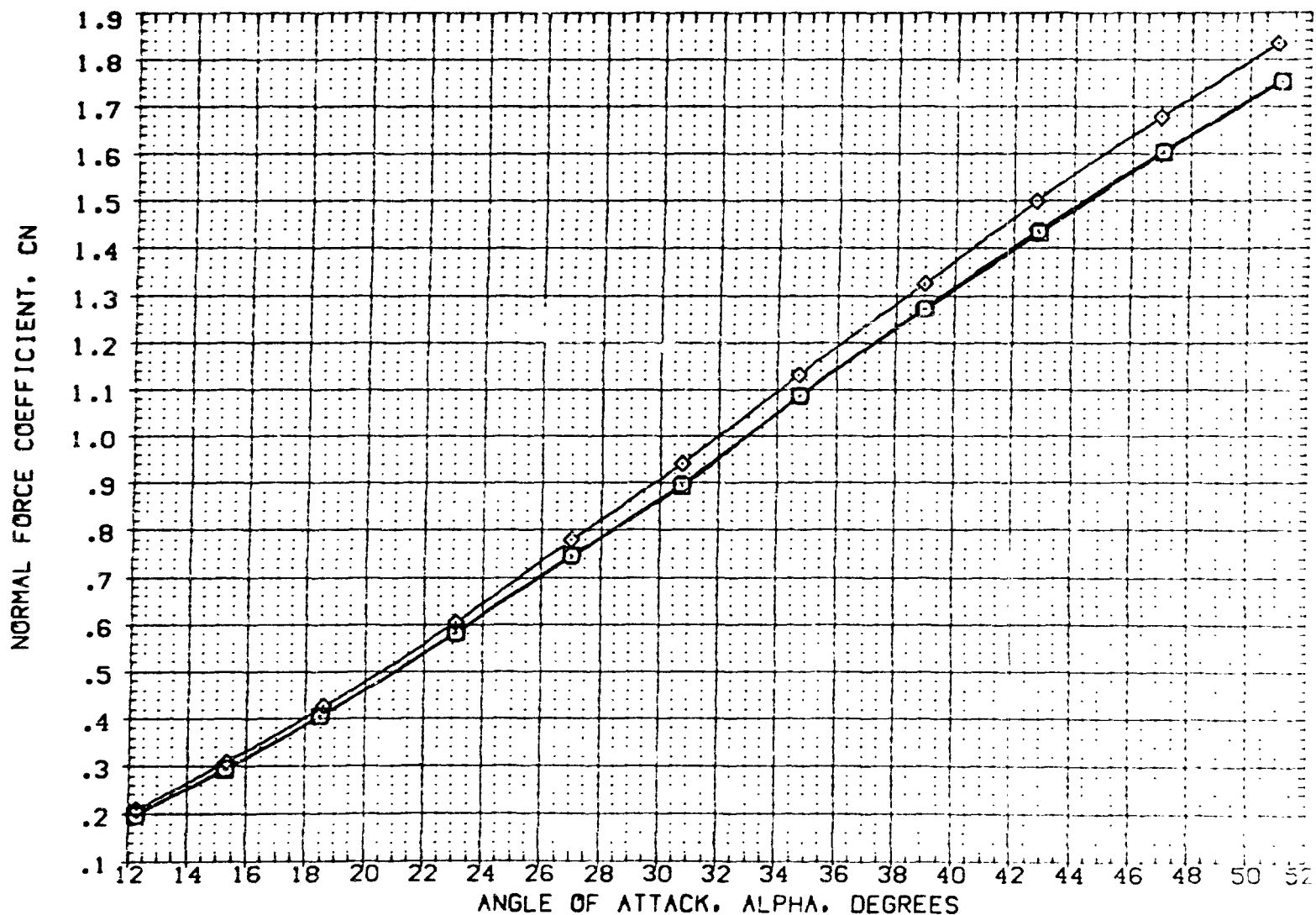


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

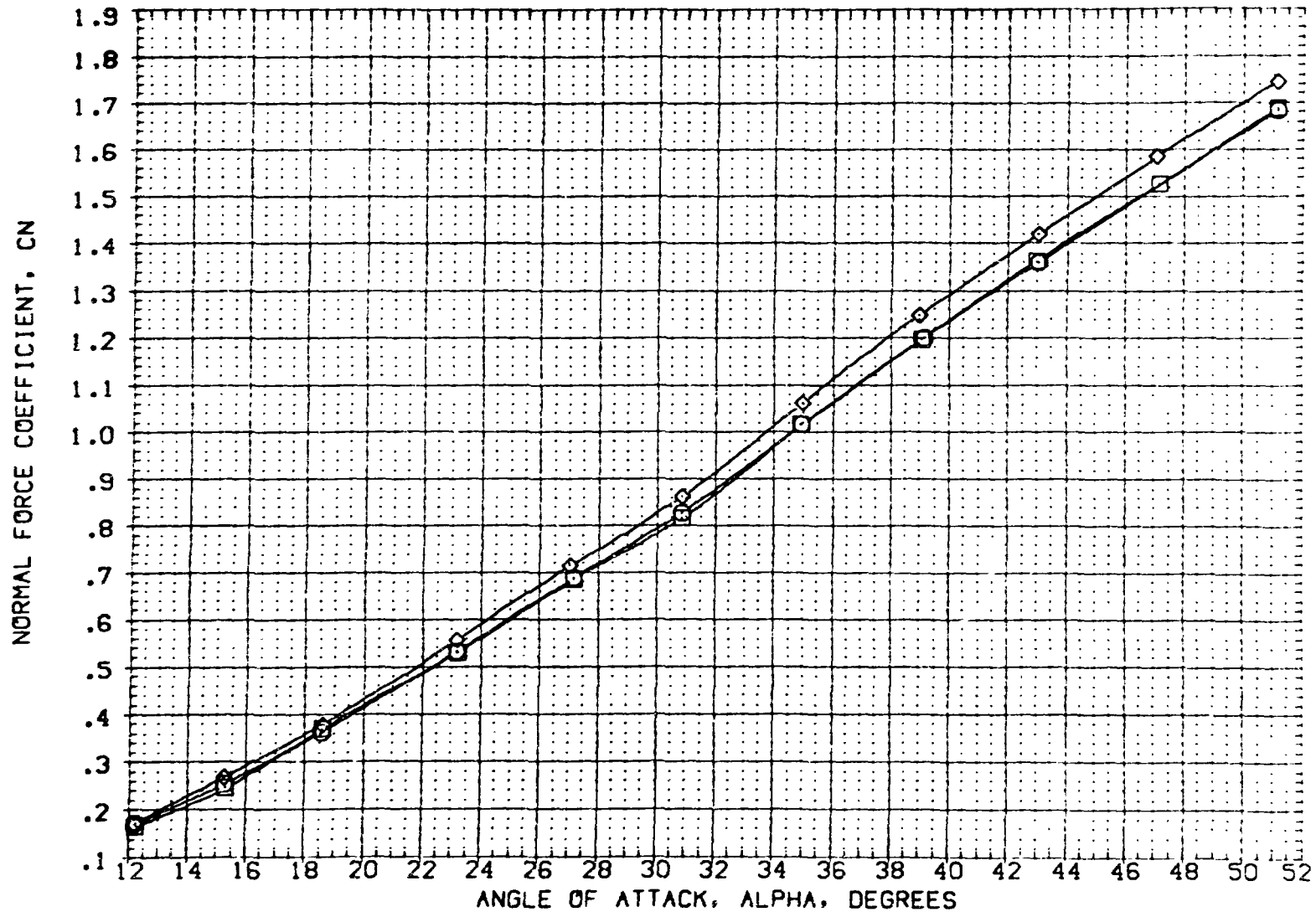


FIG. 8 BODY FLAP EFFECTS
 (B)MACH = 7.32 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.T.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

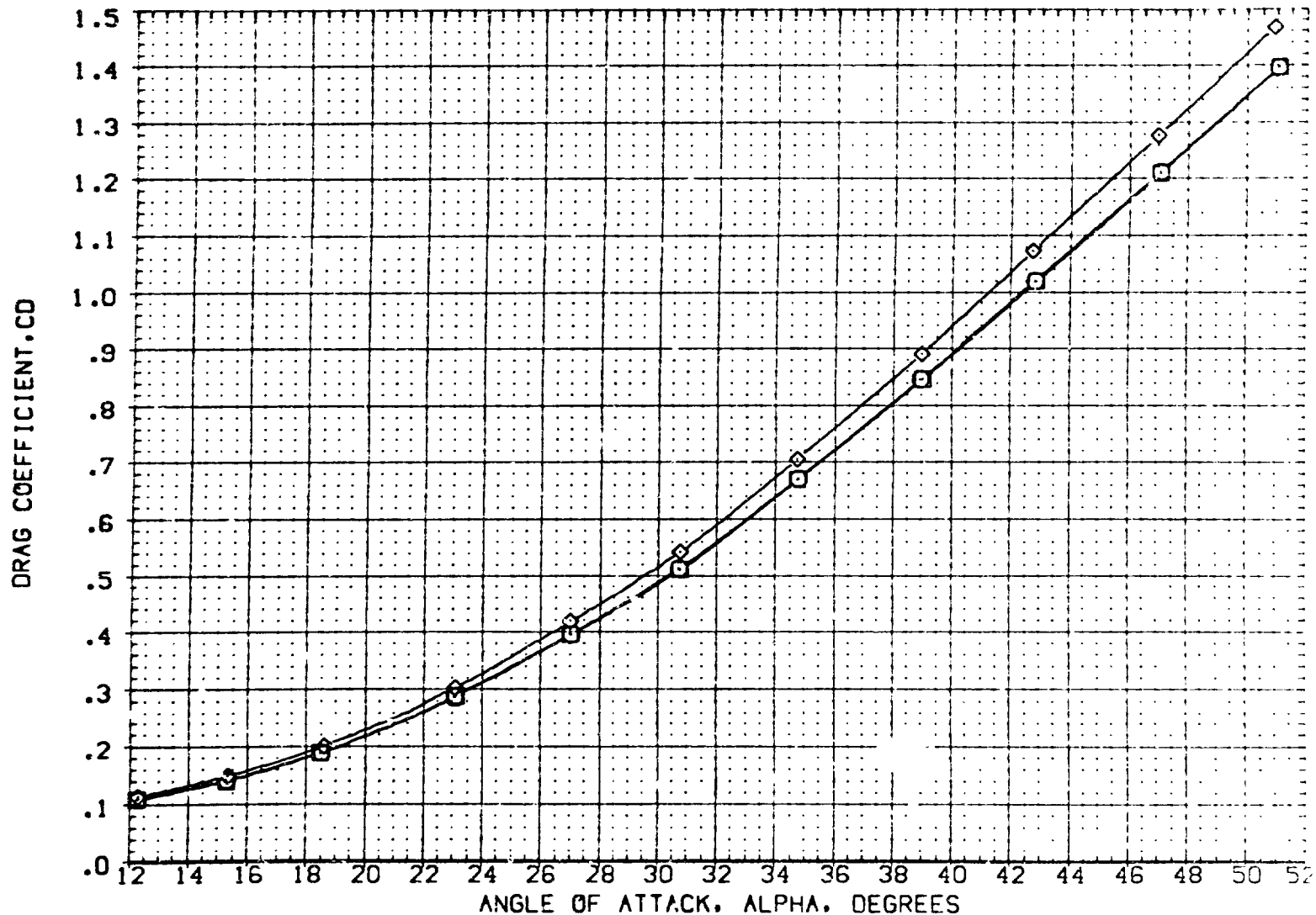


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000	IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.6800	IN.
						XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0100	SCALE

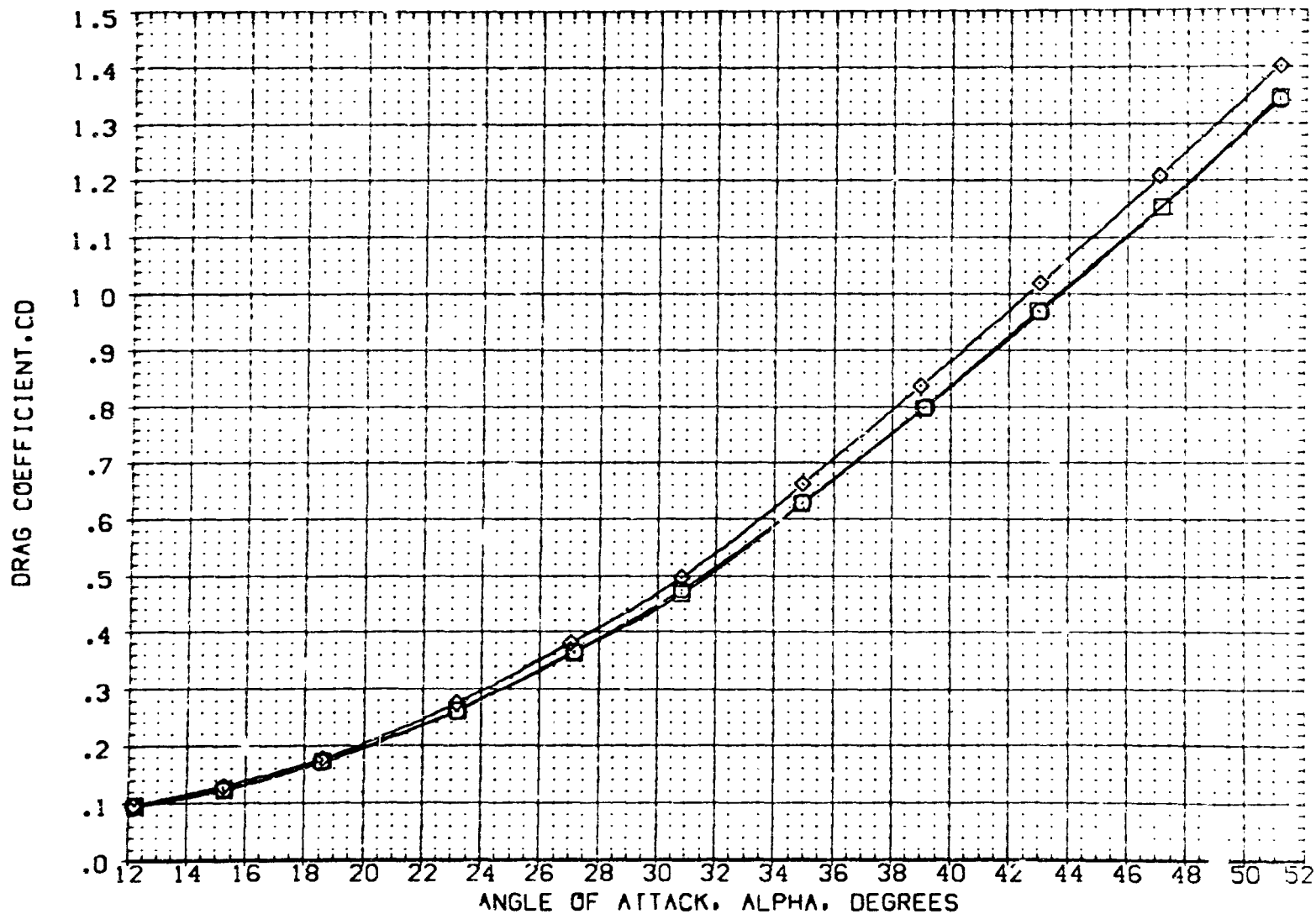


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	.000	55.000	.000	LRCF 474.8000
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	DRCF 936.6800
						XMRP 1076.4800
						YMRP .0000
						ZMRP 400.0000
						SCALE .0100

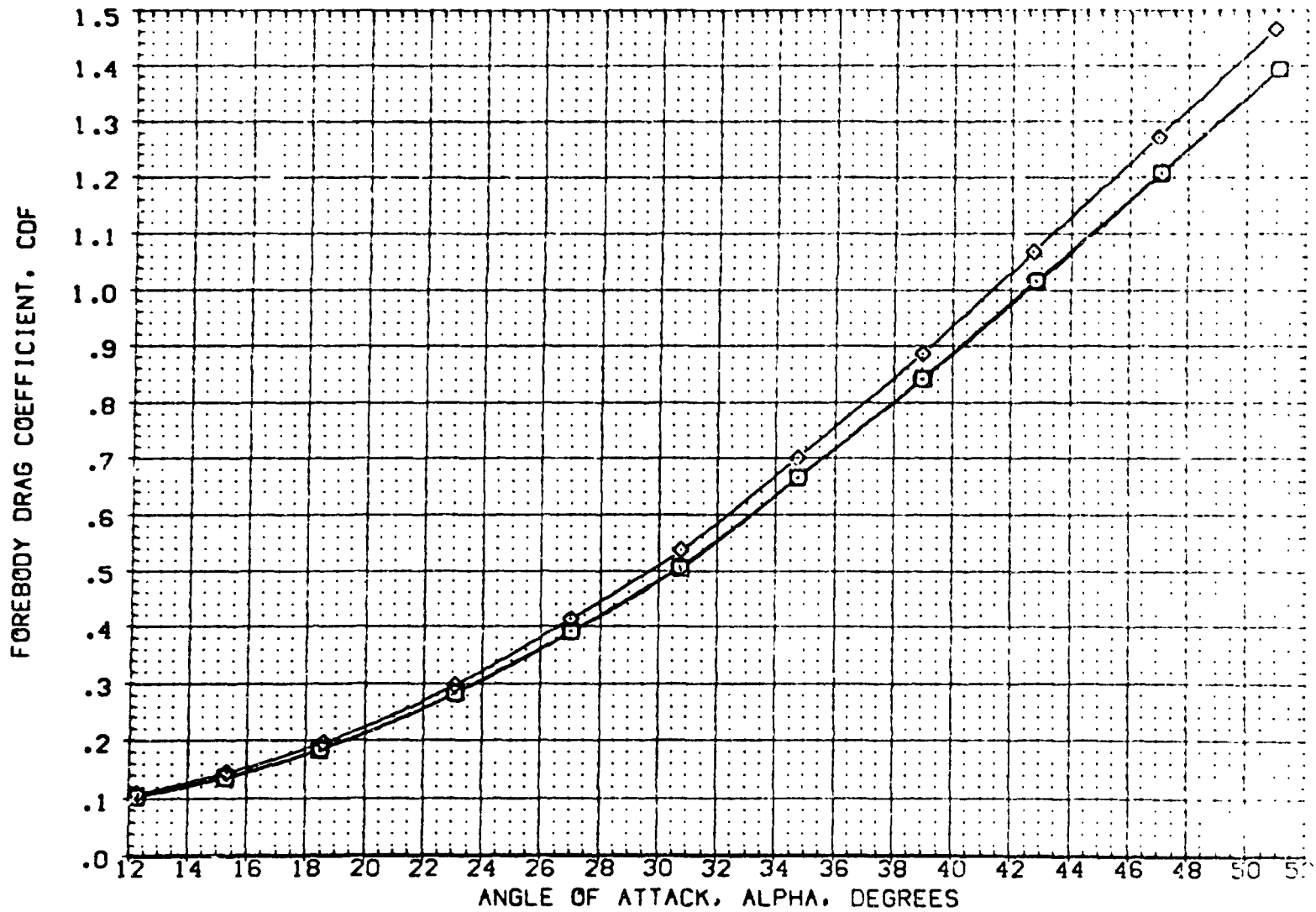


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 MACH = 5.26 PAGE 428

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SCALE
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 SCALE
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 SCALE XMRP 1076.4800 SCALE YMRP .0000 SCALE ZMRP 400.0000 SCALE

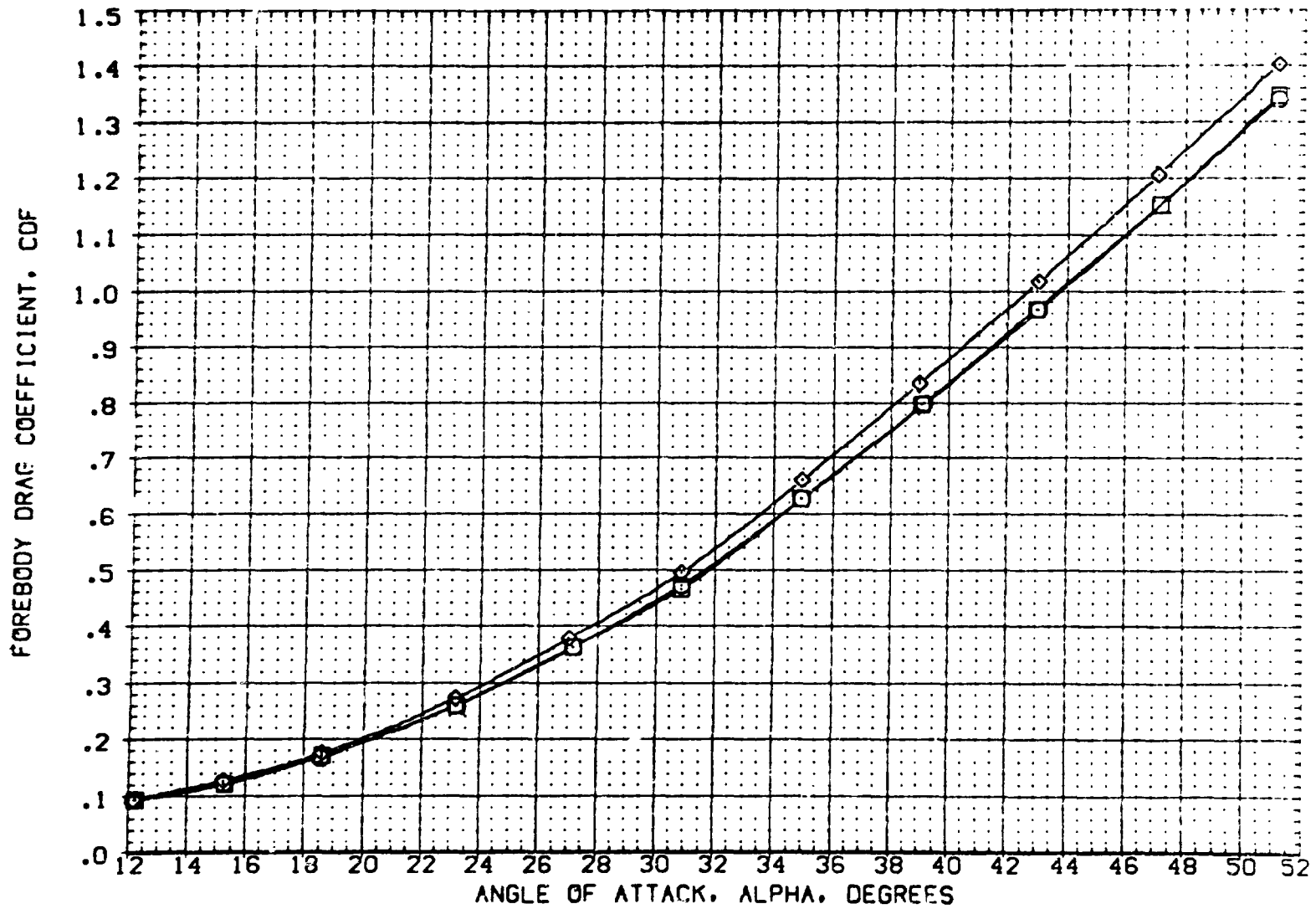


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000	50. FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000	IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.6800	IN.
						XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0100	SCALE

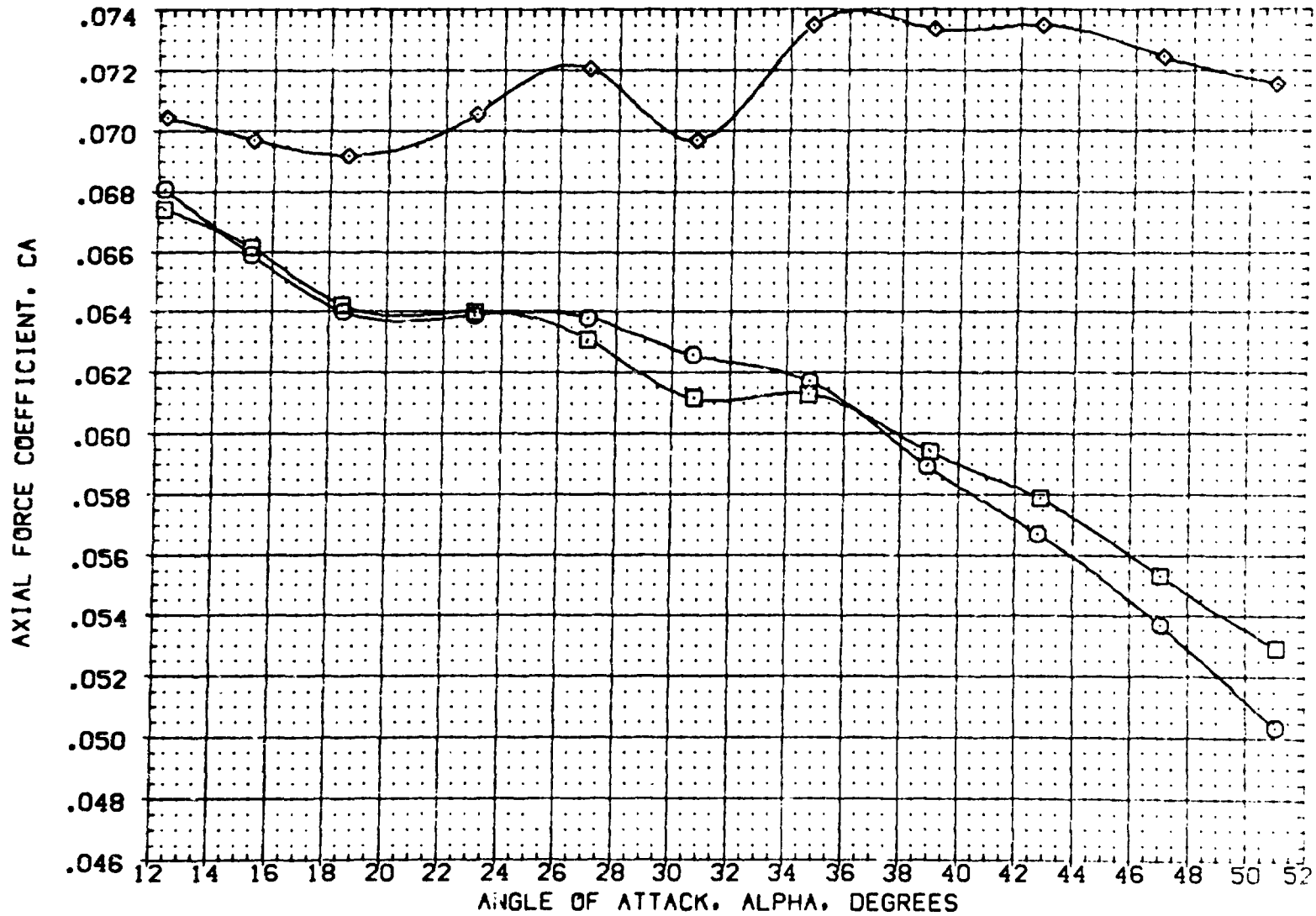


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CBG012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 7690.0000 SC.F.
(CBG010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CBG011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6600 IN. XMRP 1076.4600 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

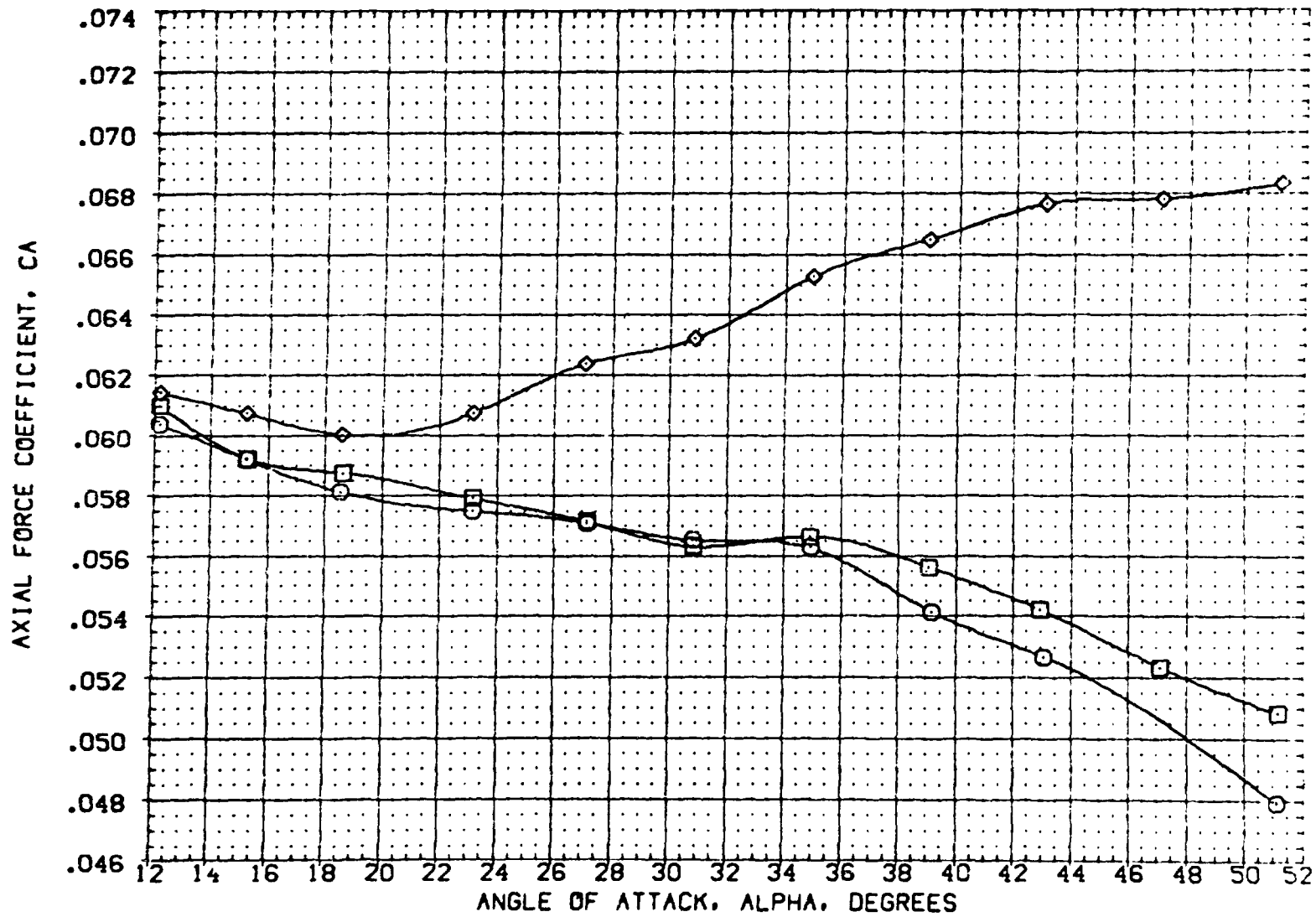


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	35.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

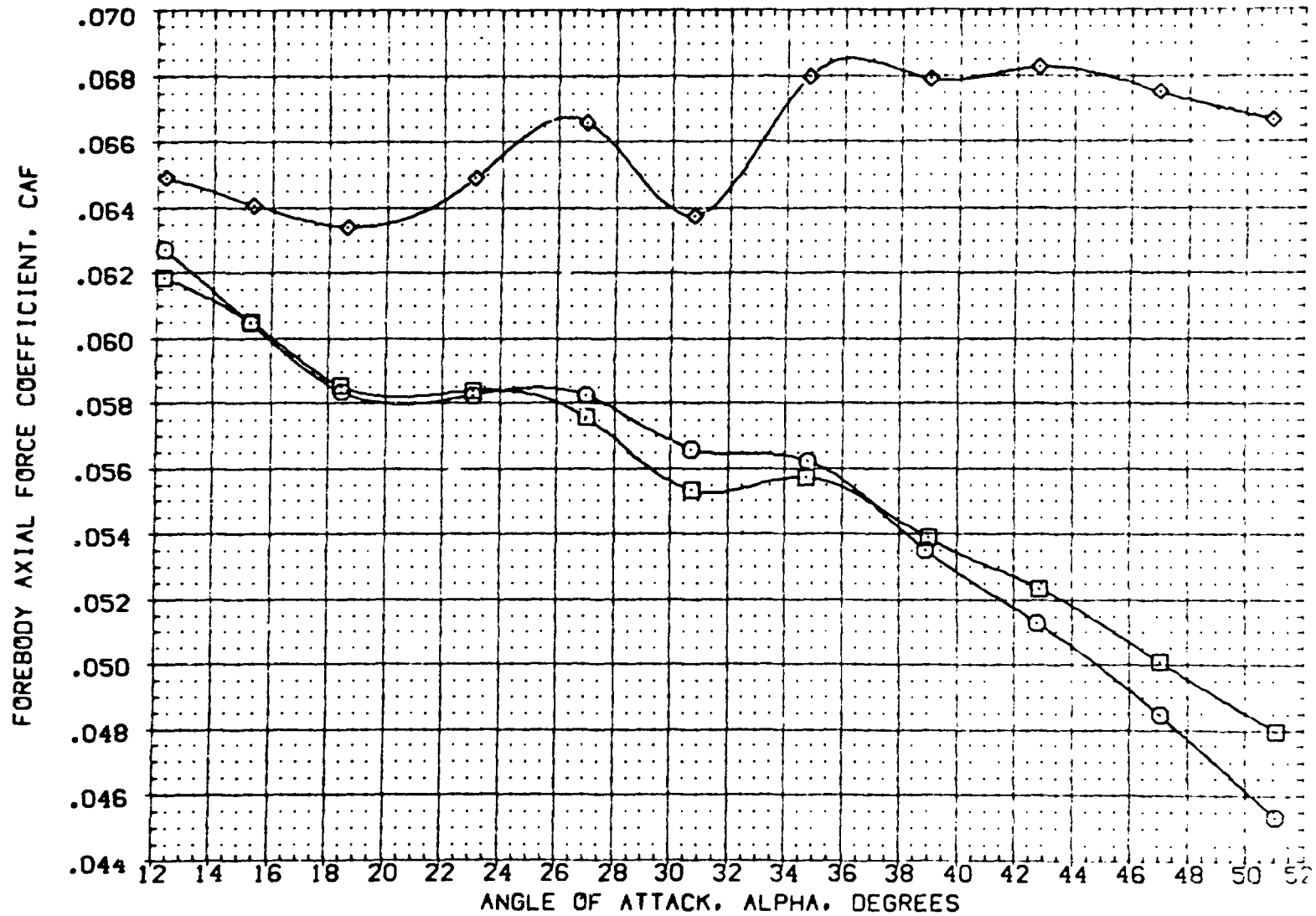


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A) MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SG.F.
(CB6010)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 N.
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 N.
						XMRP 1076.4800 N.
						YMRP .0000 N.
						ZMRP 400.0000 N.
						SCALE .0100 SCALE

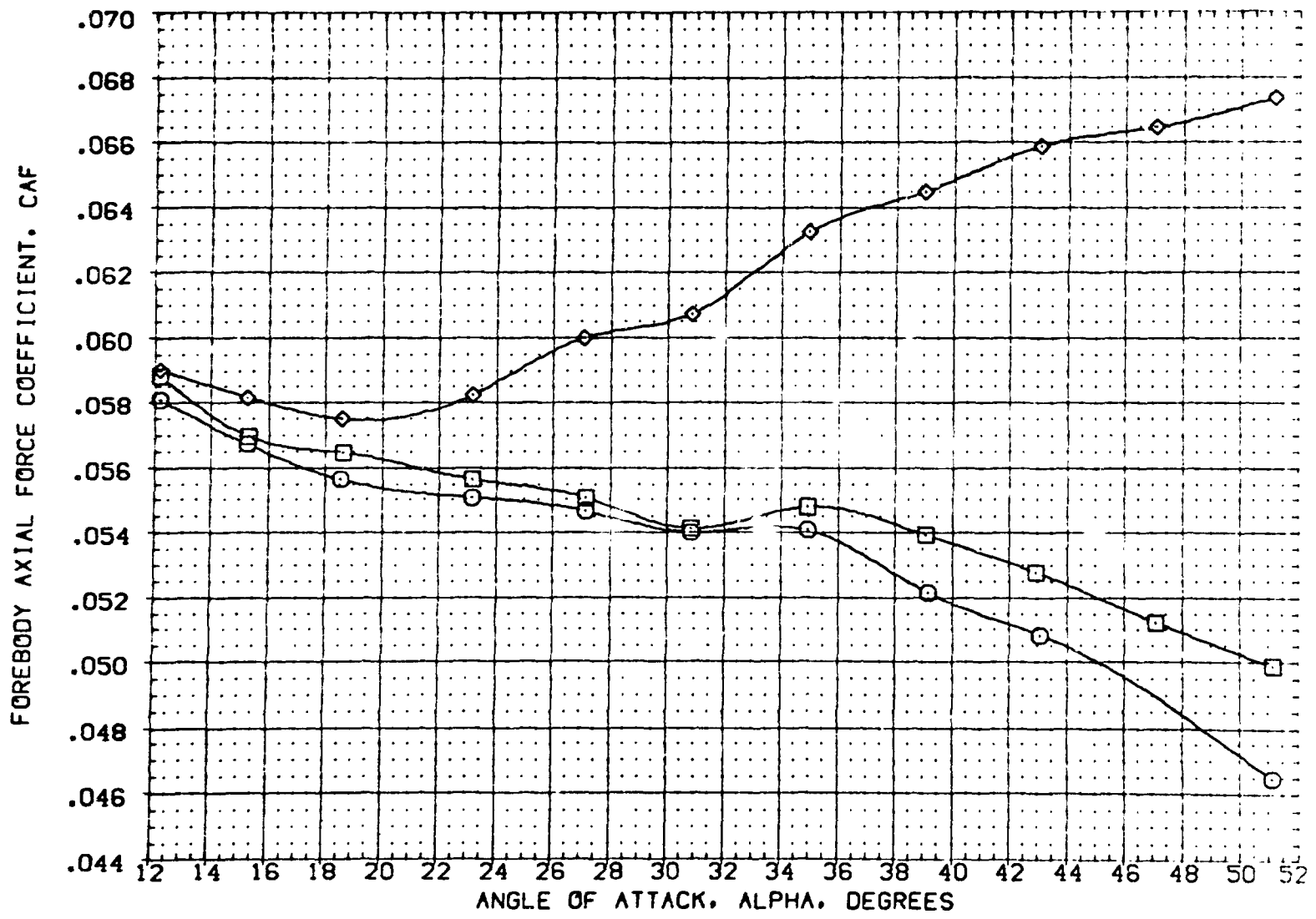


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.F.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	.000	55.00	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

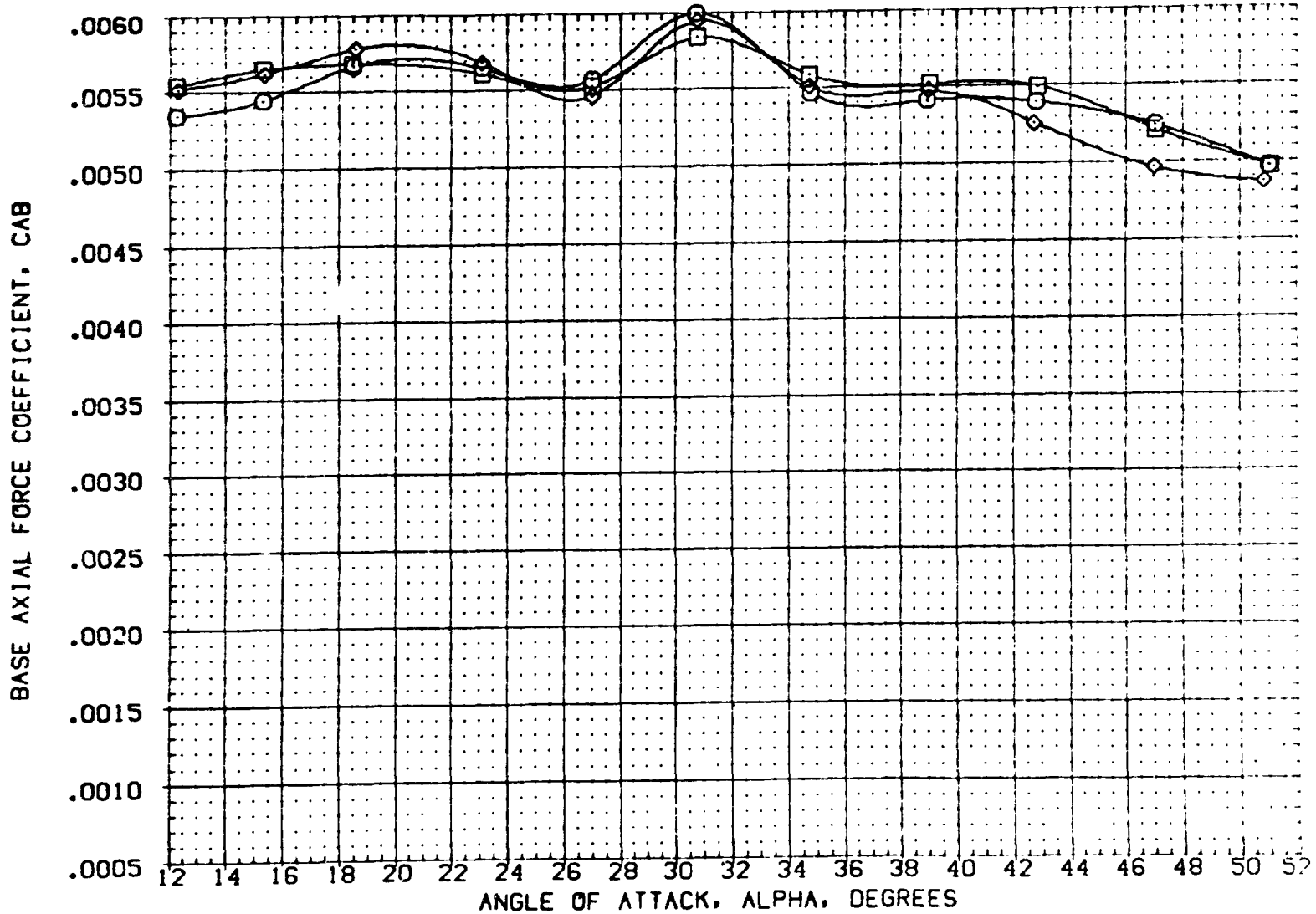


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SCALE
(CB6010)	AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

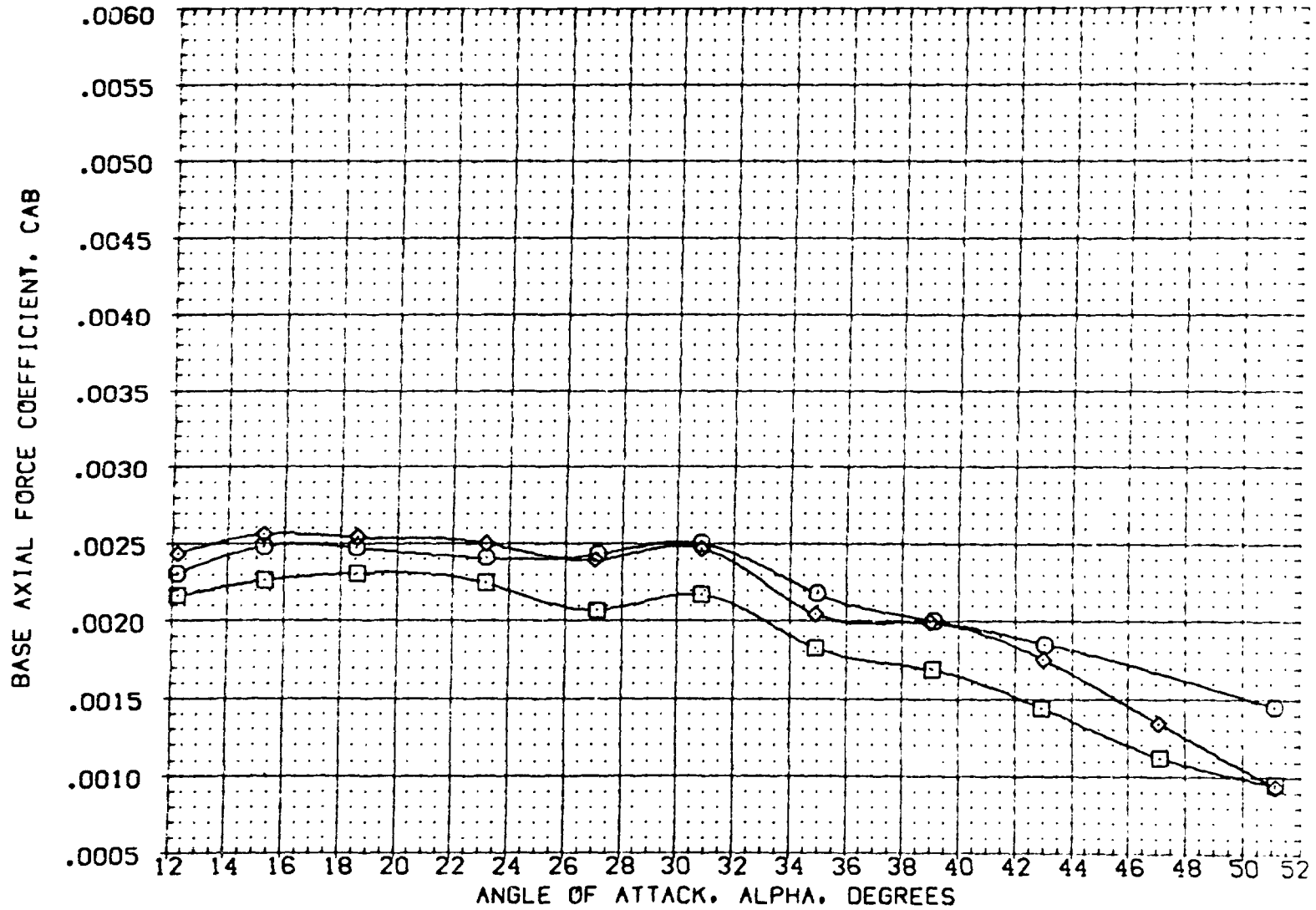


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N6 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.T.
(CB6010)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N6 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N6 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						p 1076.4800 IN.
						p .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

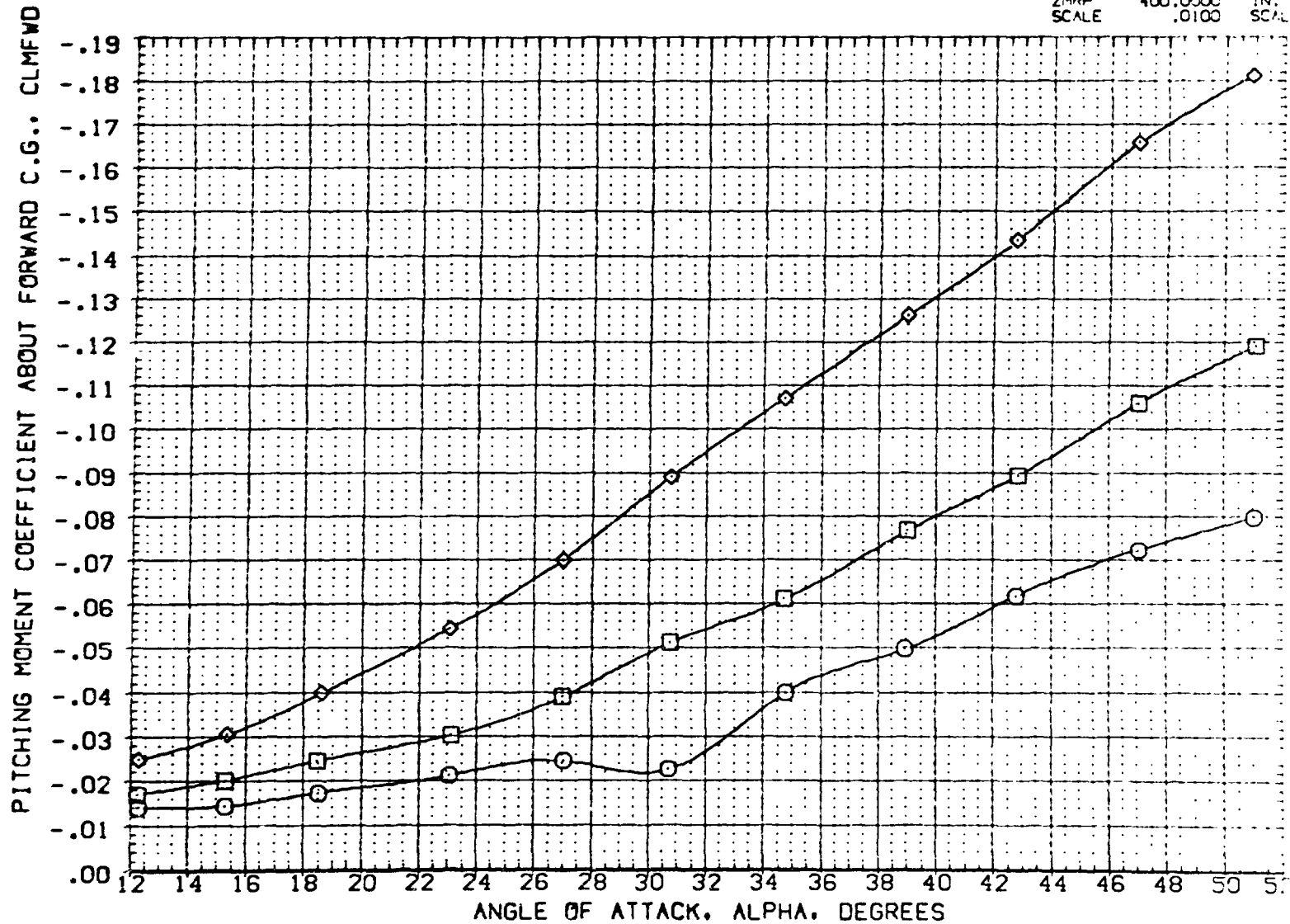


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

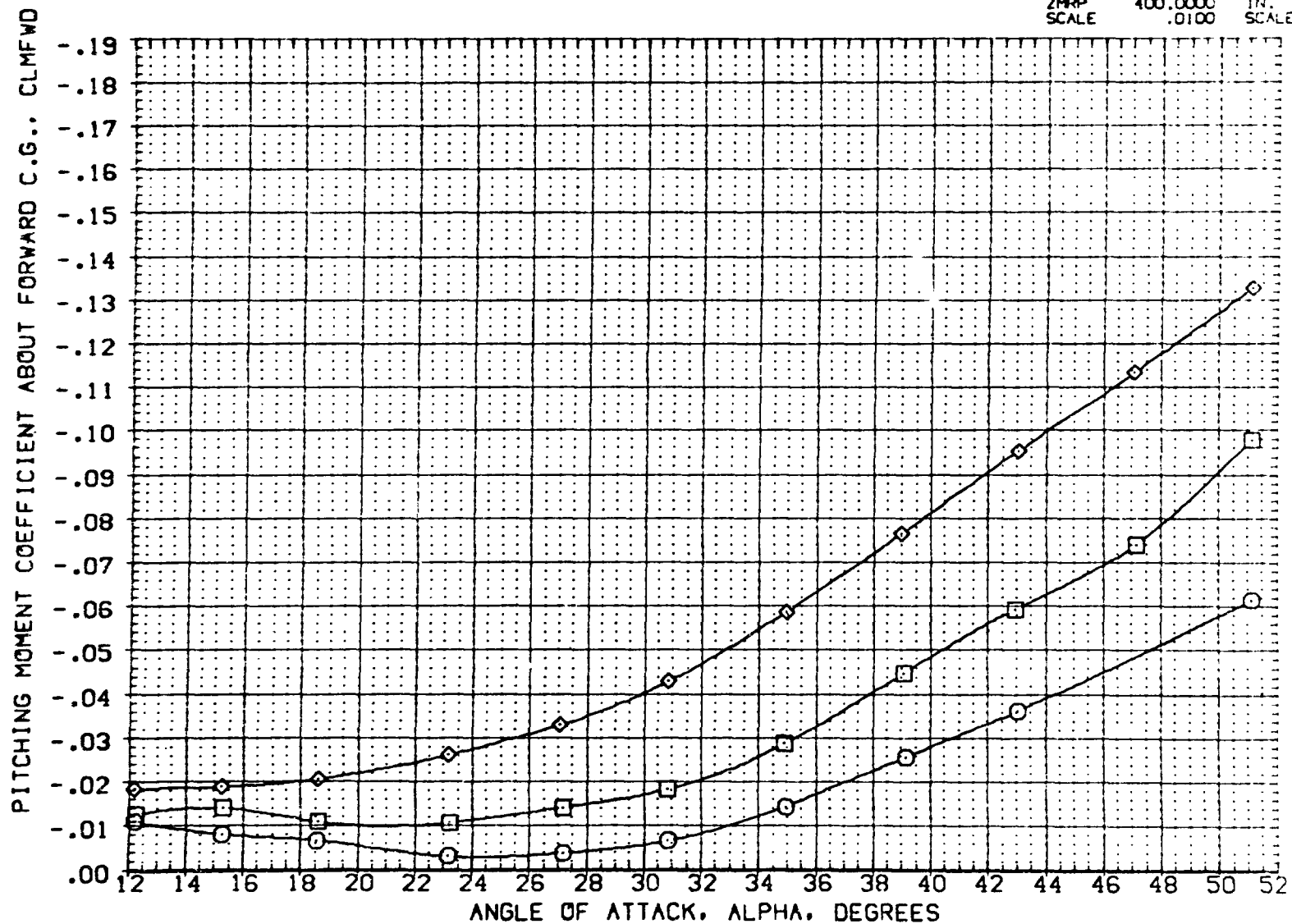


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.
(CB6010)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

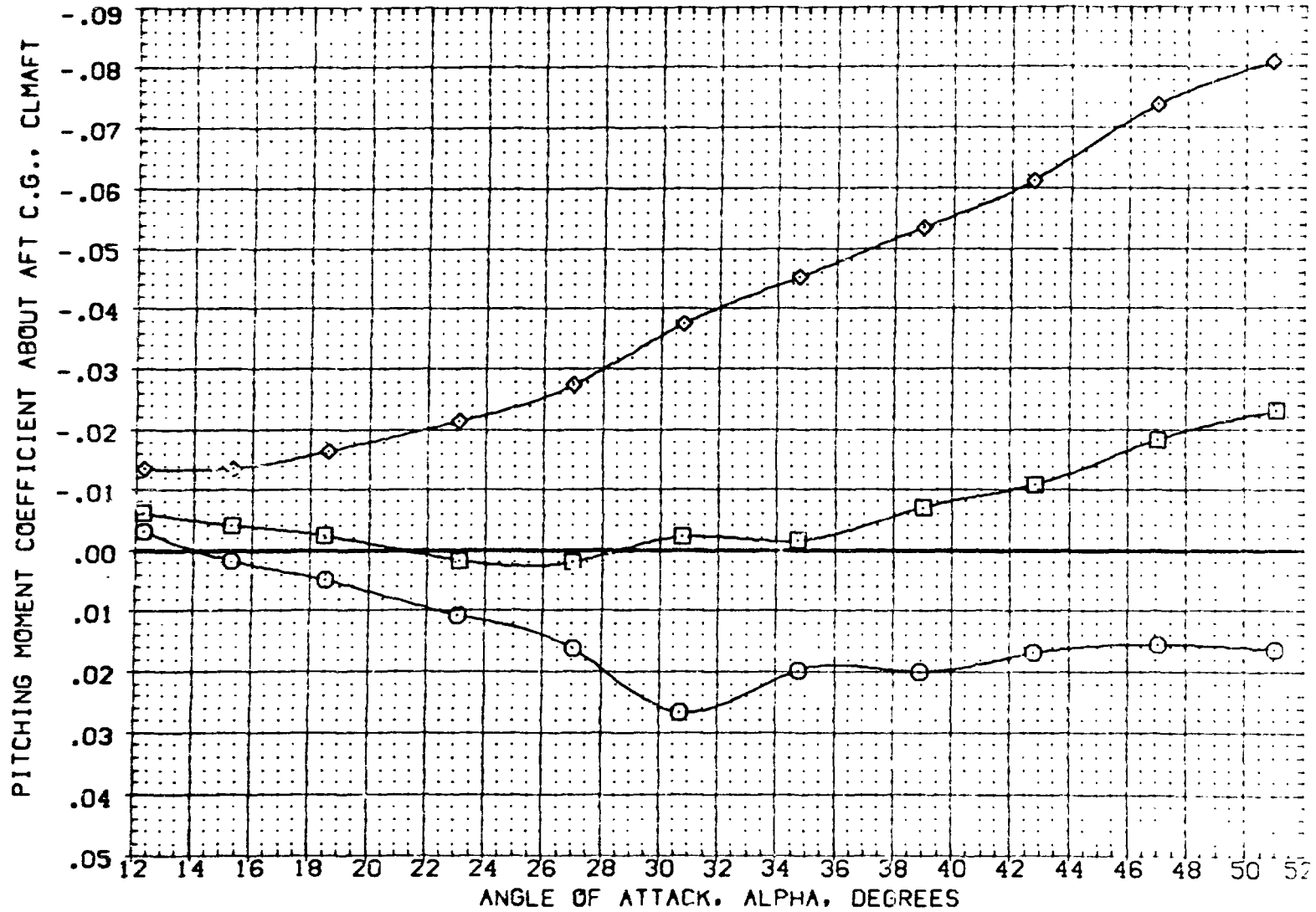


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

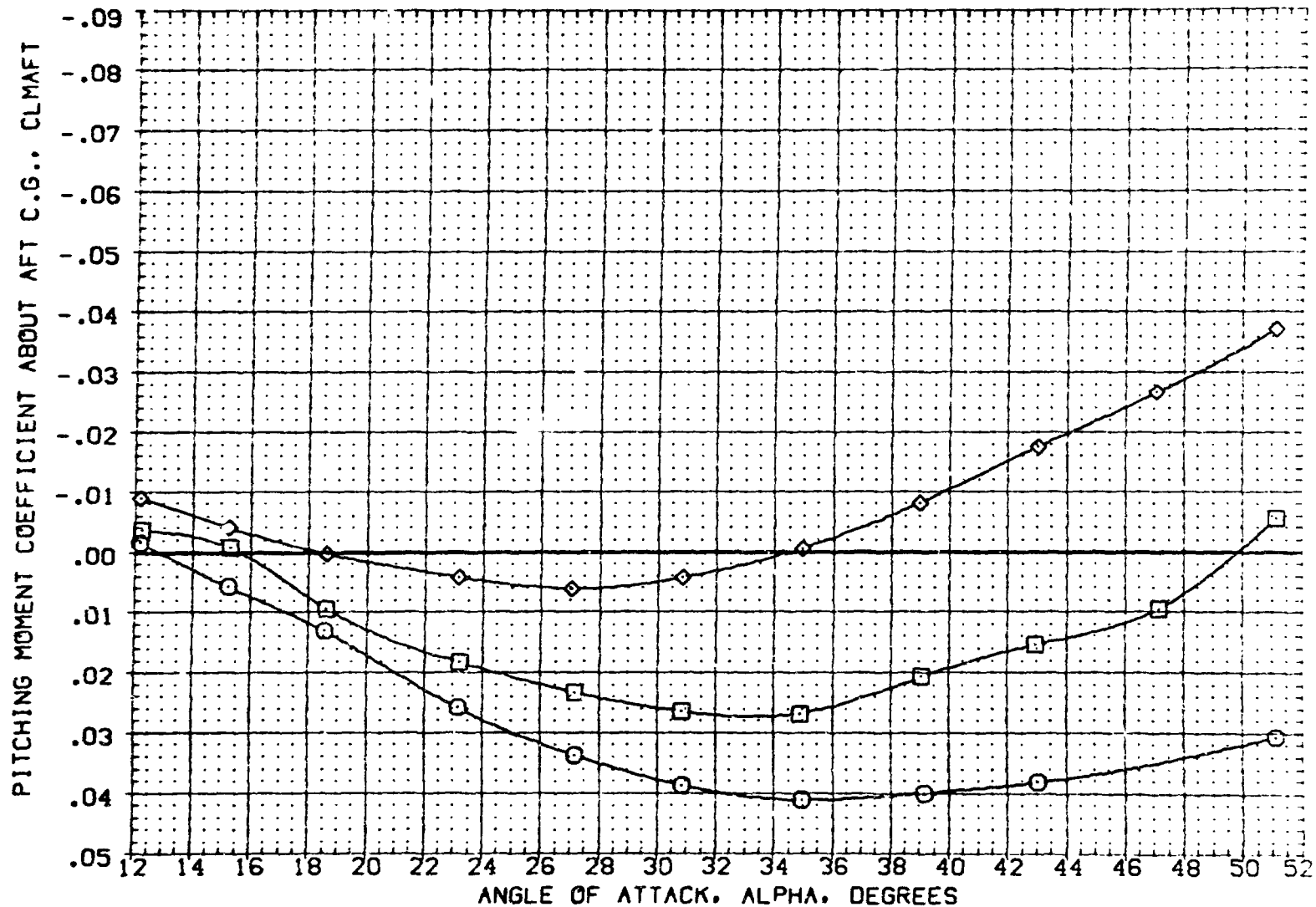


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.7
(CB6010)	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

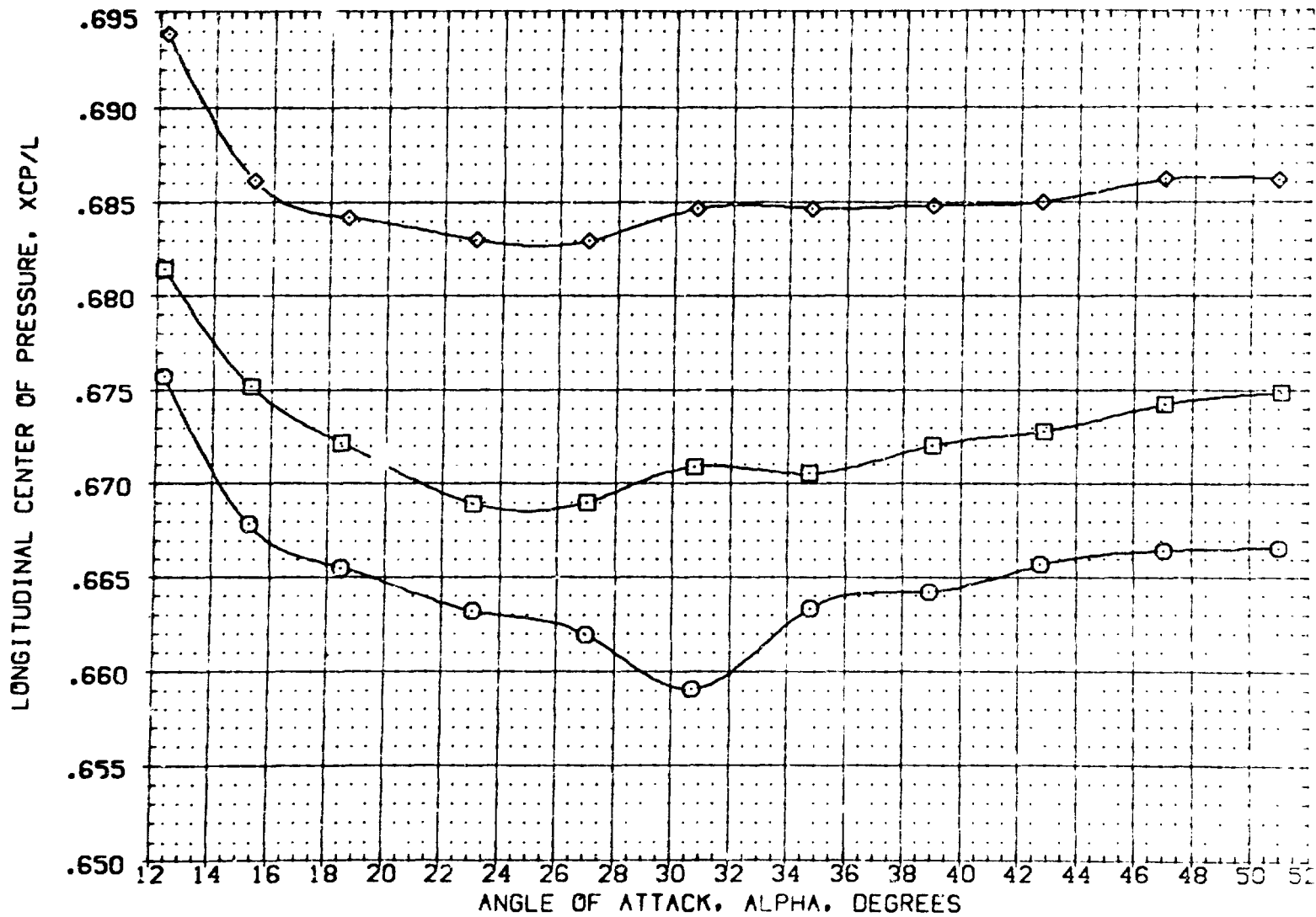


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(CB6010)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

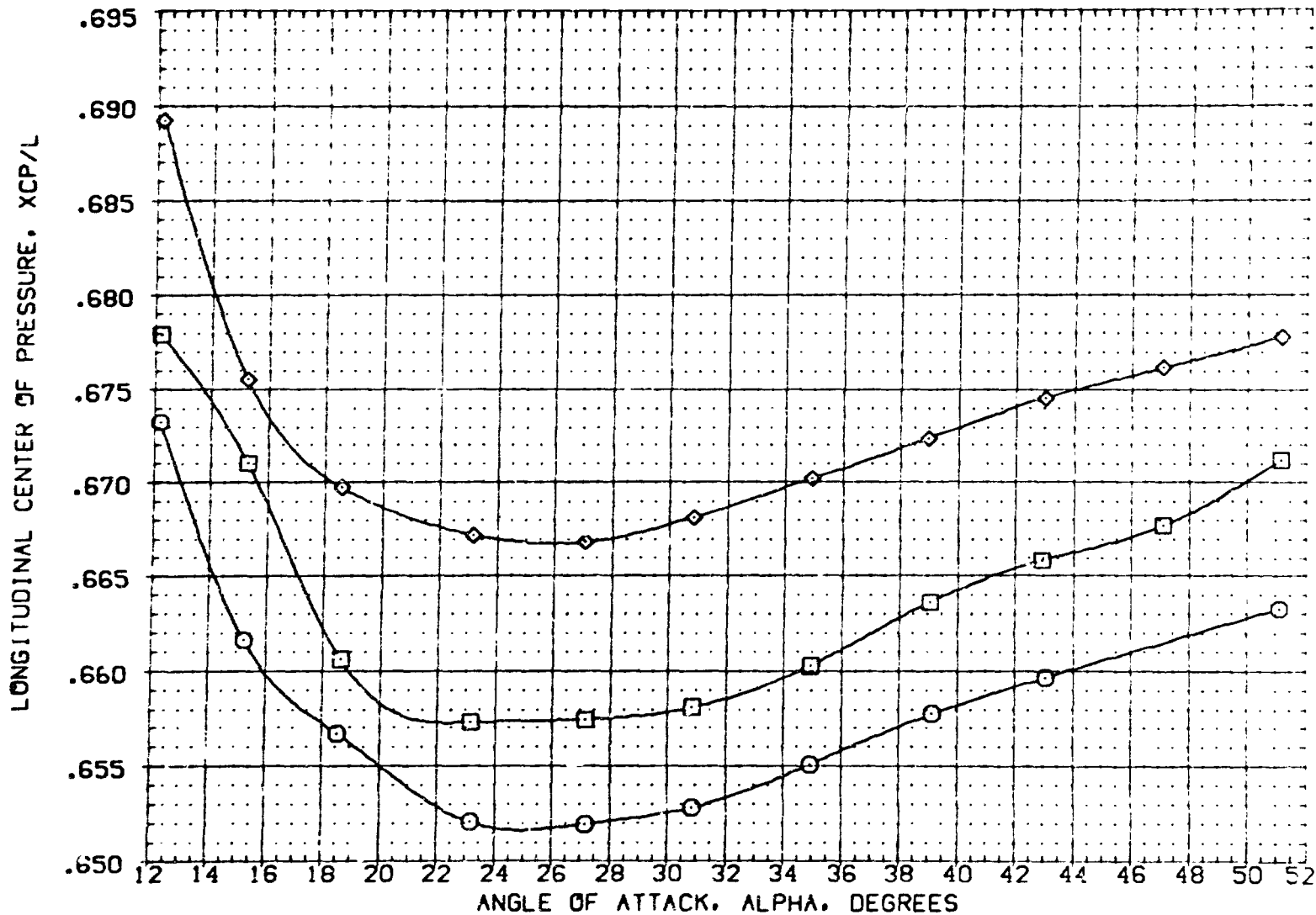


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(B06012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FI.
(B06010)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000	IN.
(B06011)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.670	IN.
						XMRP	1076.4000	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0100	SCALE

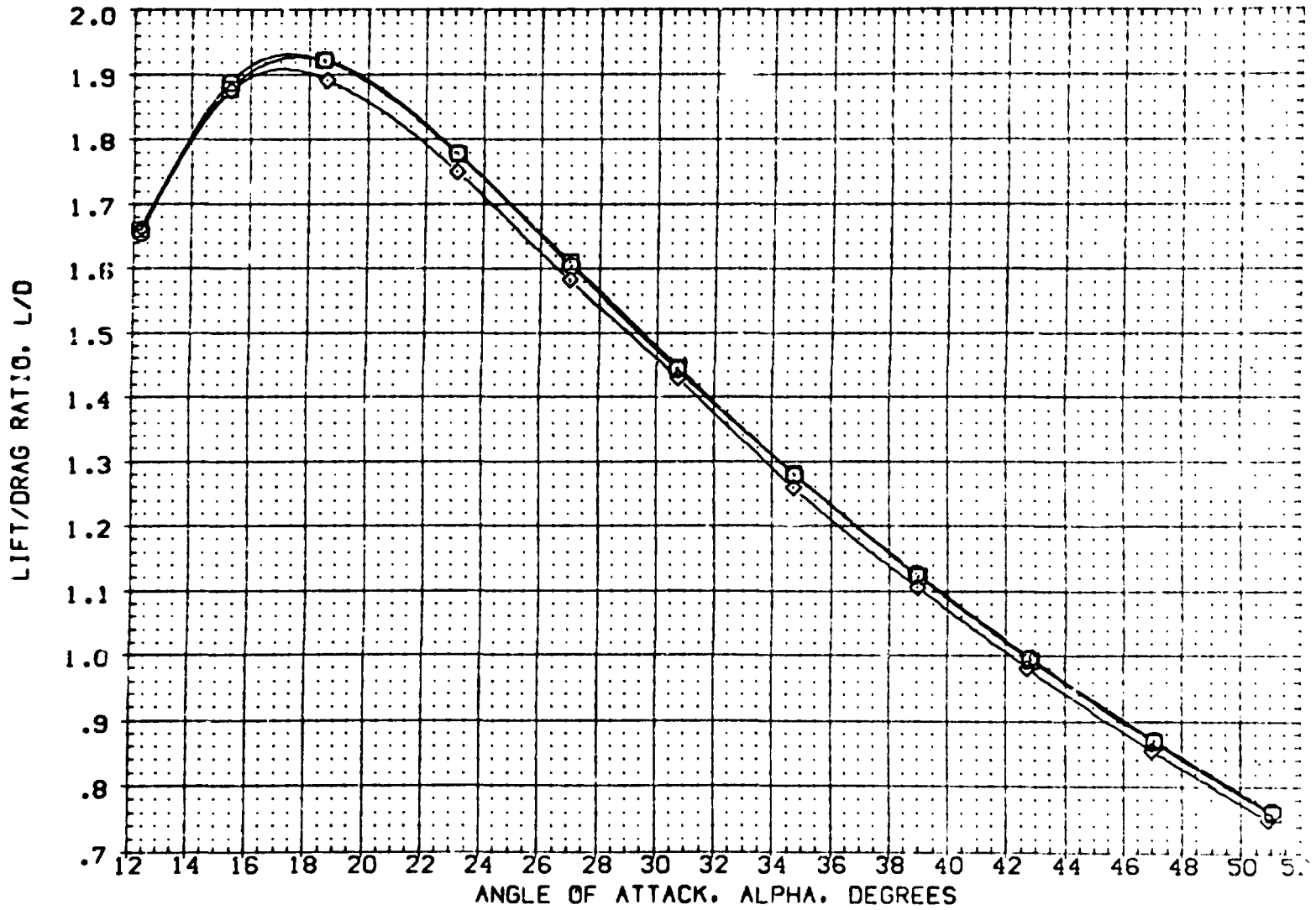


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.26 PAGE 442

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(BB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 .107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(BB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 .107	.000	.000	55.000	.000	LREF 474.9000 IN.
(BB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 .107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

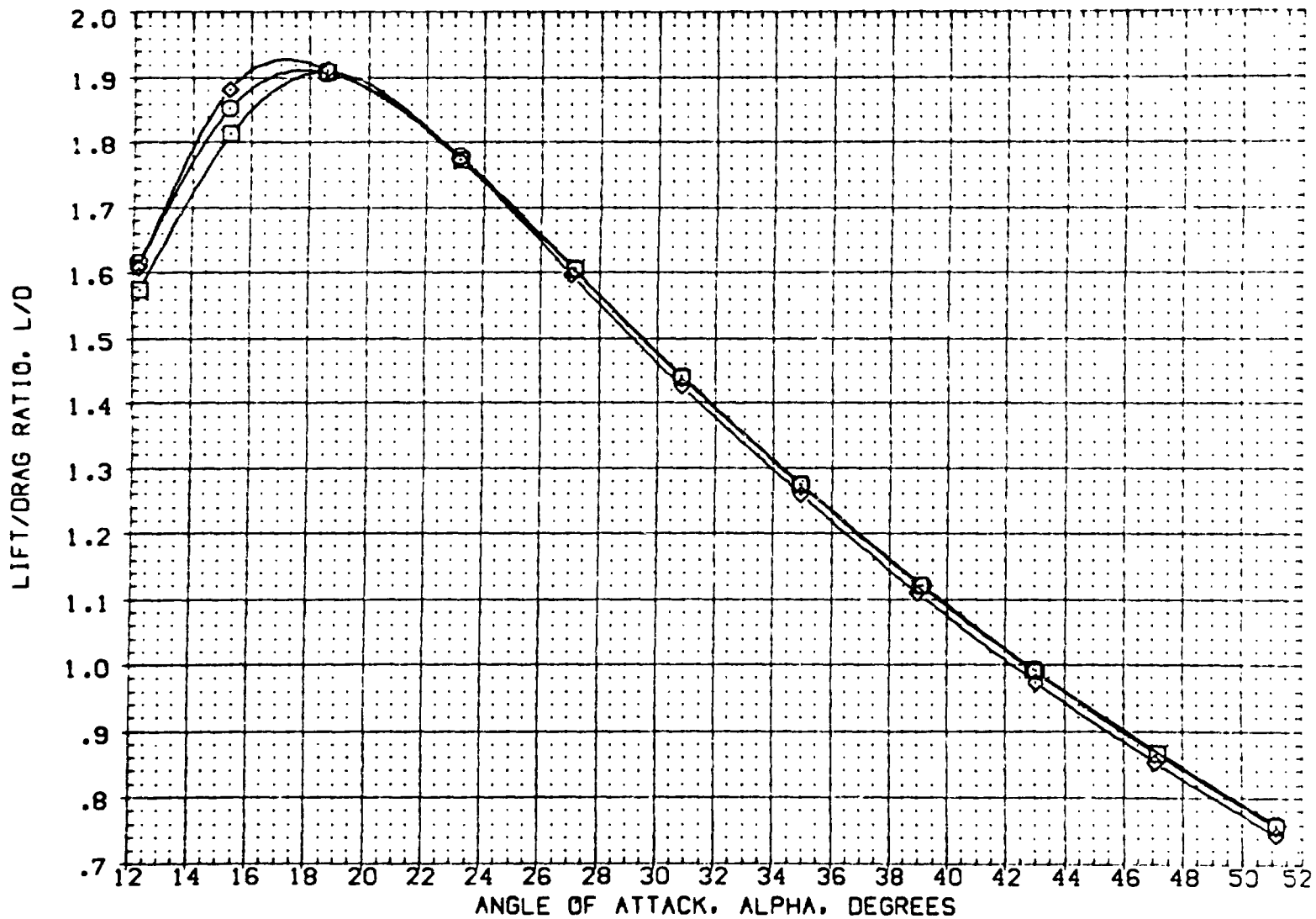


FIG. 8 BODY FLAP EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 IN.
(CB6010)	AMES3.5-168 0A23 B15 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

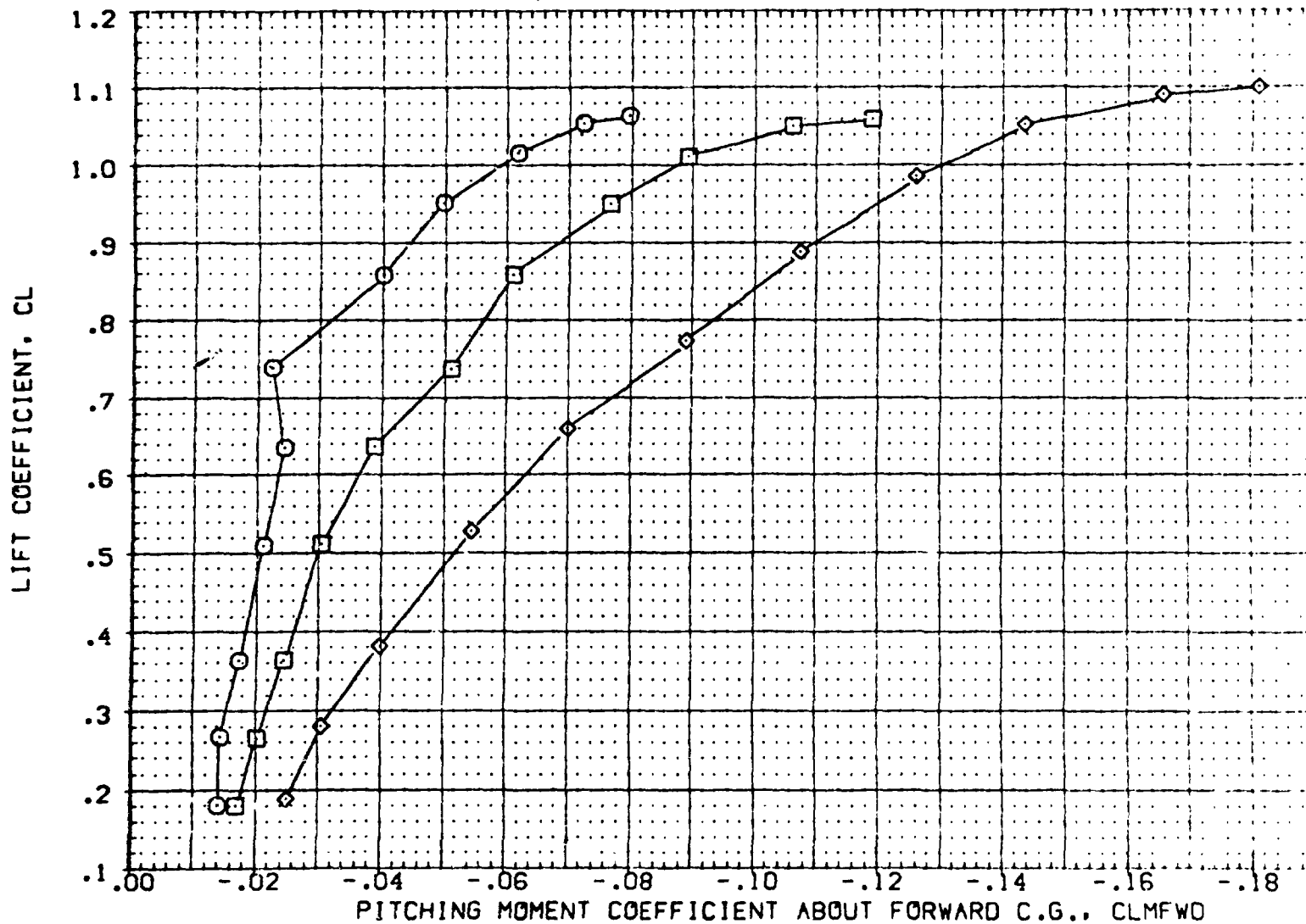


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

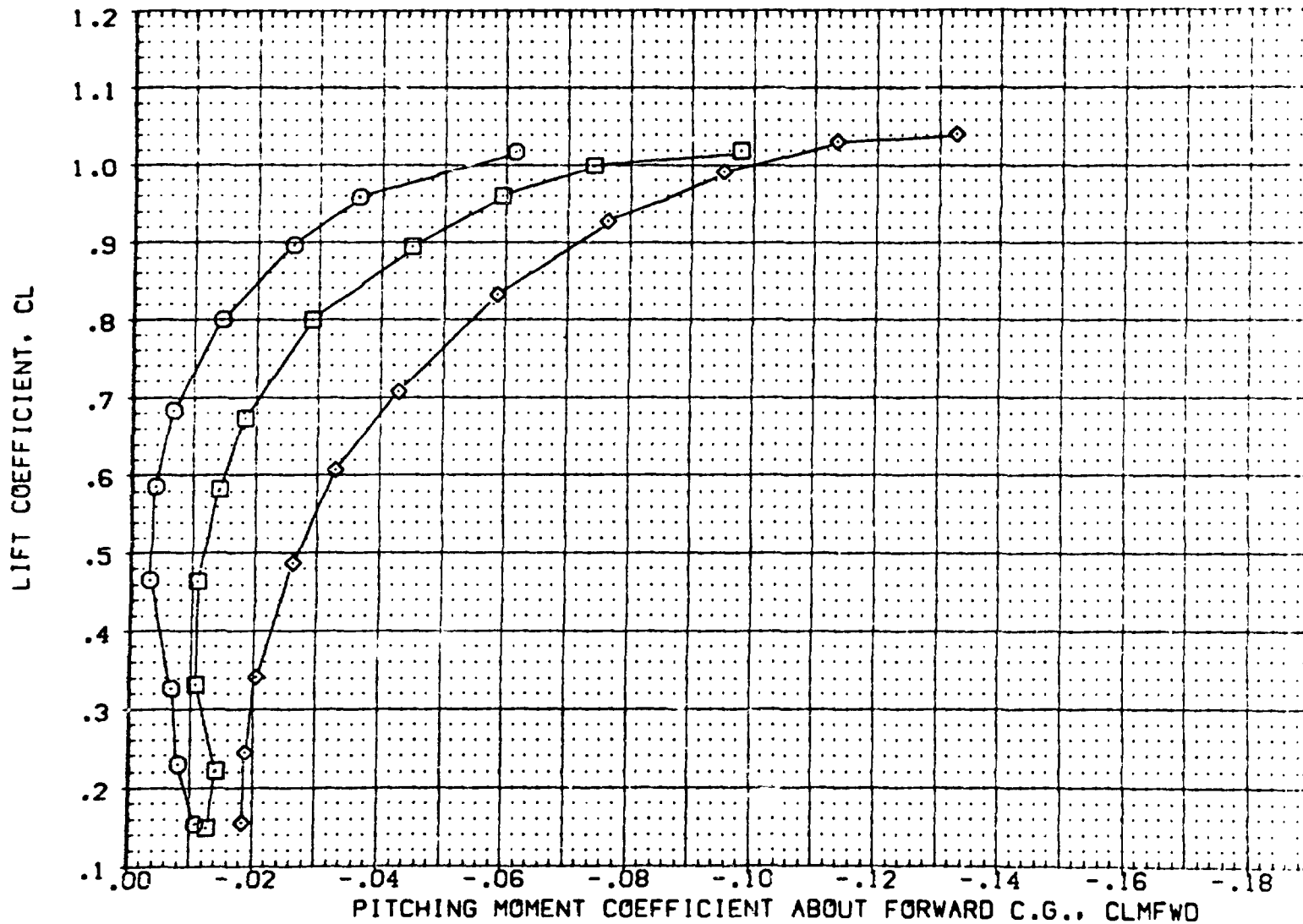


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION		
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000	SQ.FT.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF	474.8000	IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF	936.6800	IN.
						XMRP	1076.4800	IN.
						YMRP	.0000	IN.
						ZMRP	400.0000	IN.
						SCALE	.0100	SCALE

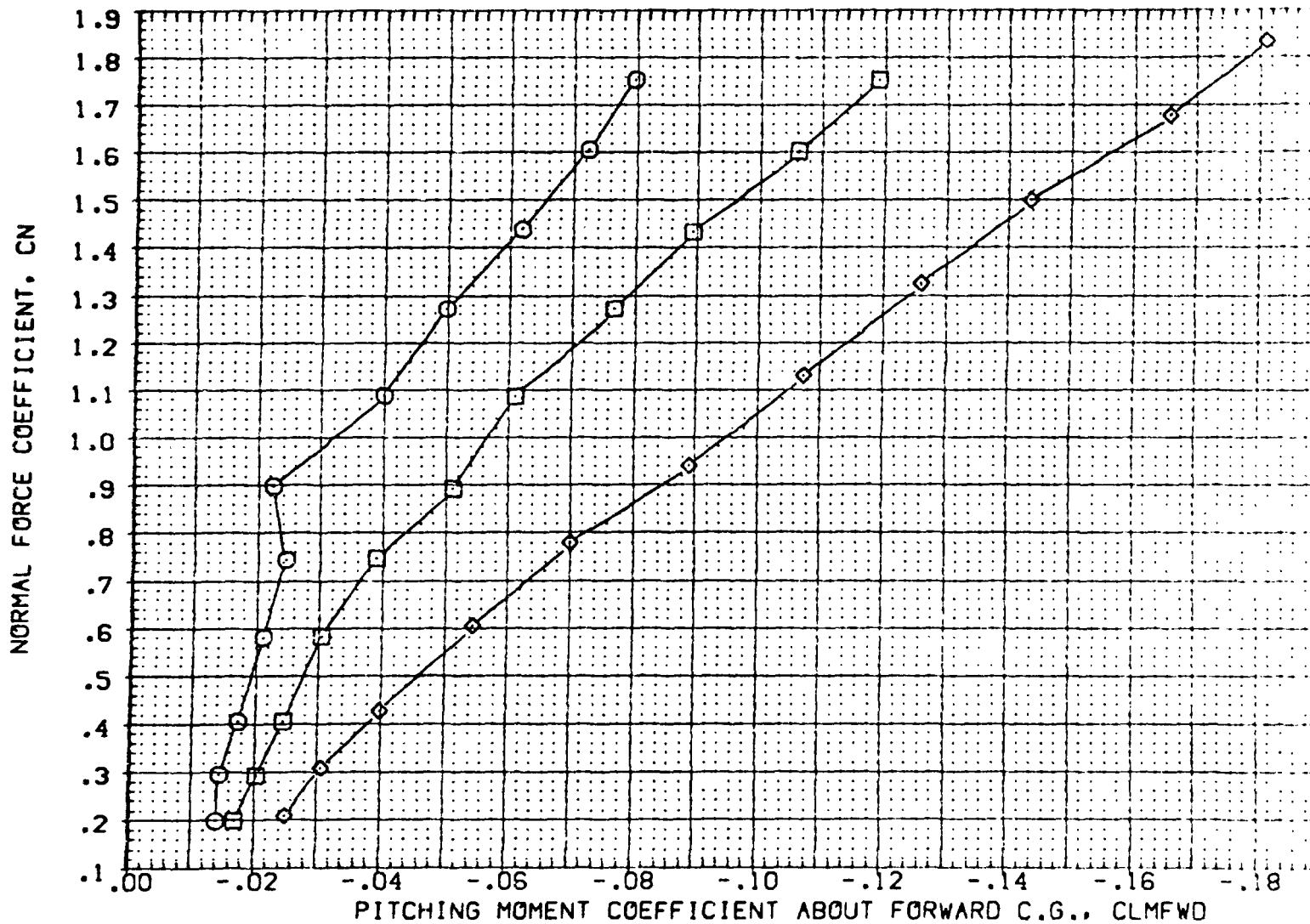


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.26 PAGE 446

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	○ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.6000 IN.
(CB6011)	◇ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

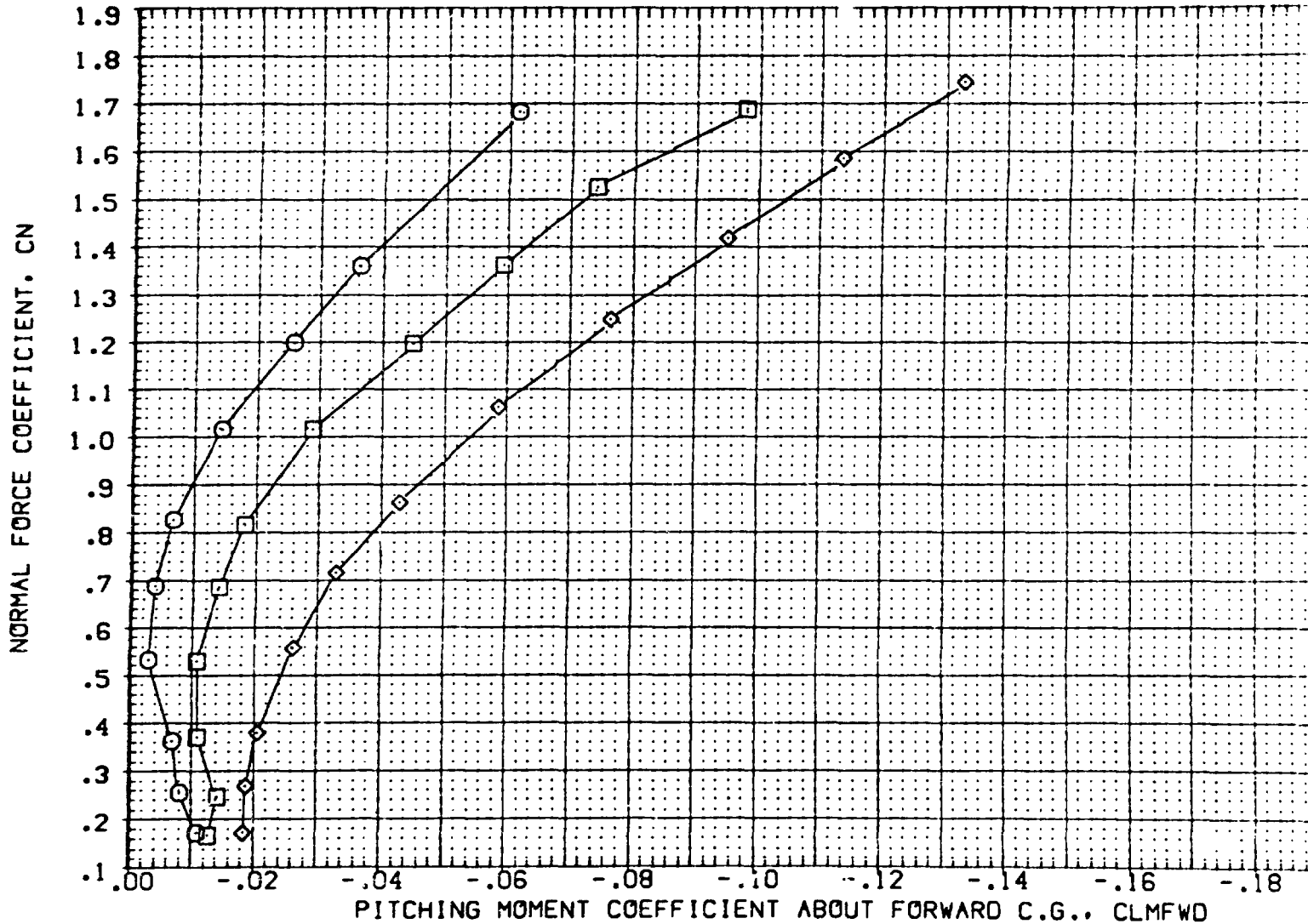


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	○	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6010)	□	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	◇	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
							XMRP 1076.4800 IN.
							YMRP .0000 IN.
							ZMRP 400.0000 IN.
							SCALE .0100 SCALE

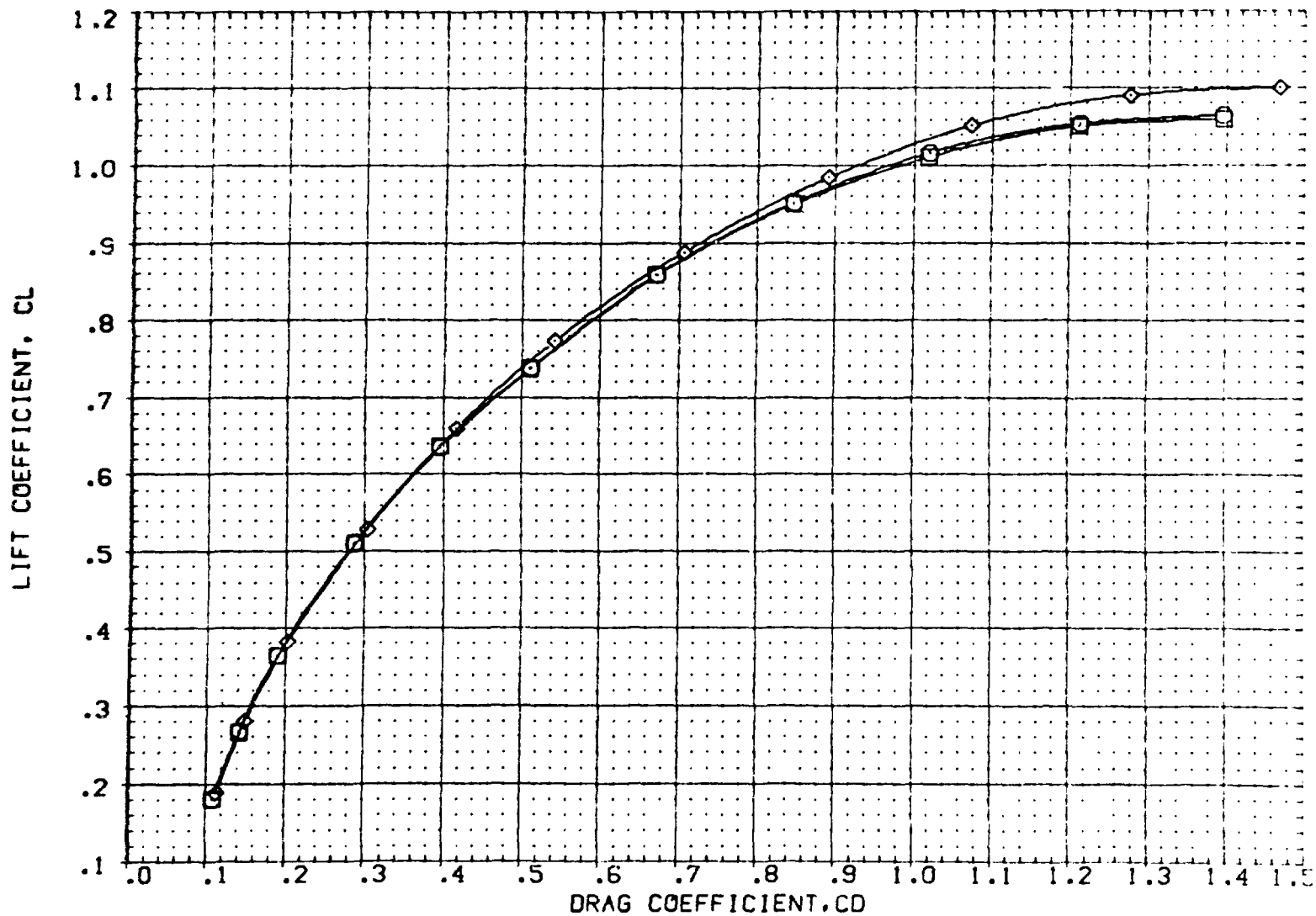


FIG. 8 BODY FLAP EFFECTS
(A) MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.T.
(CB6010)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

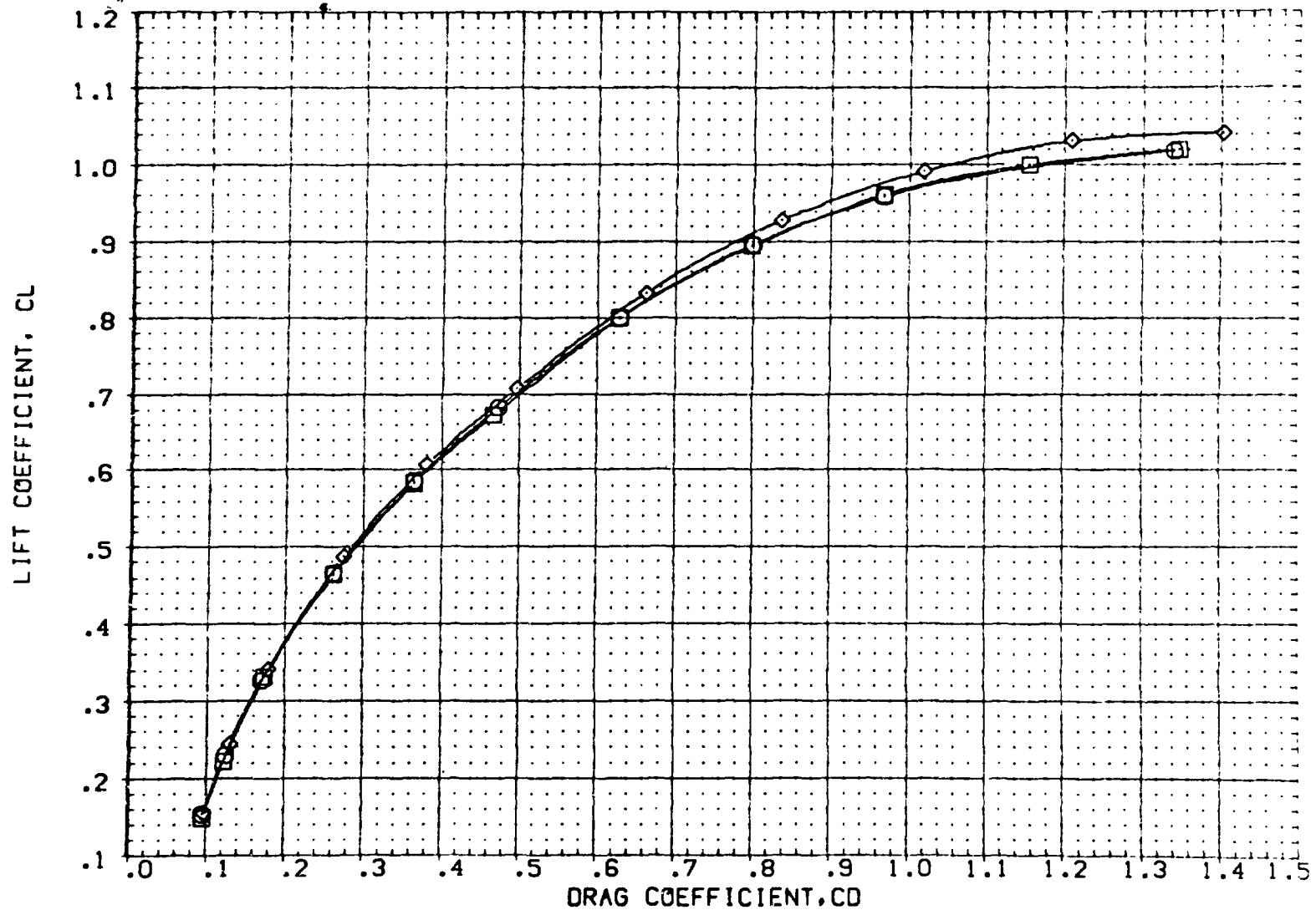


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.
(C86017)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(C86016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

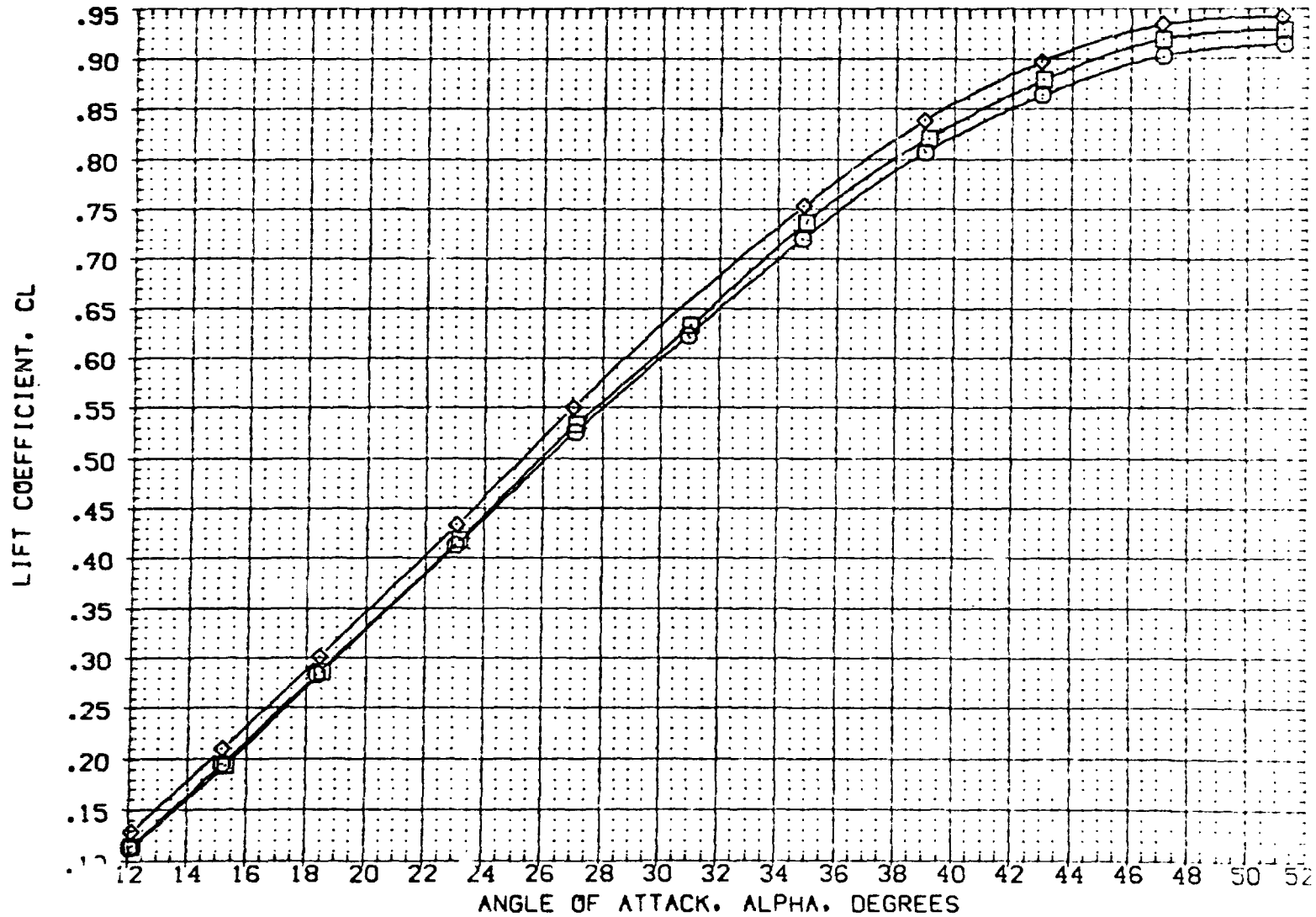


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 7.32

1398 CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V:37	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(CB6017)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V:107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V:107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

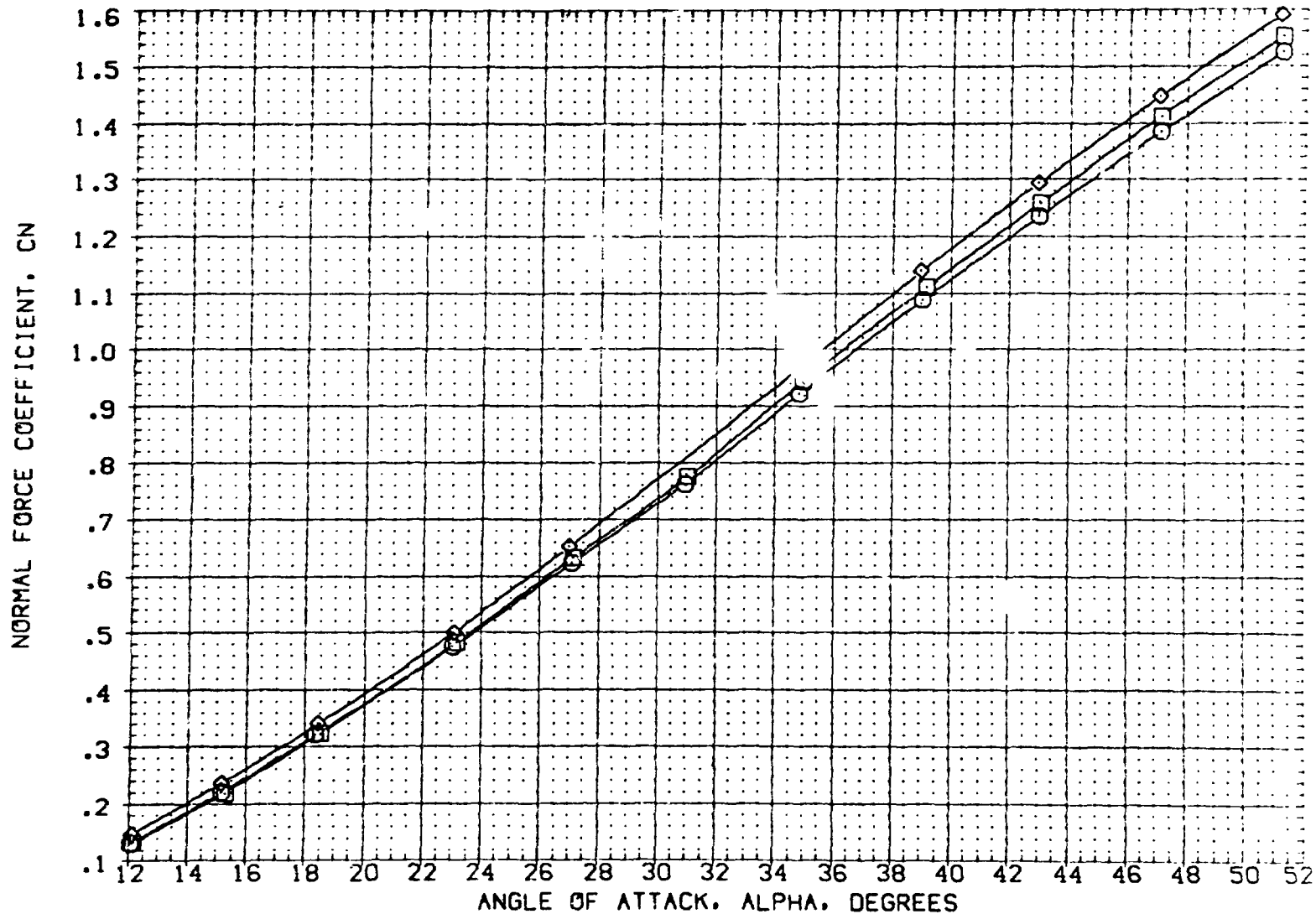


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6017)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

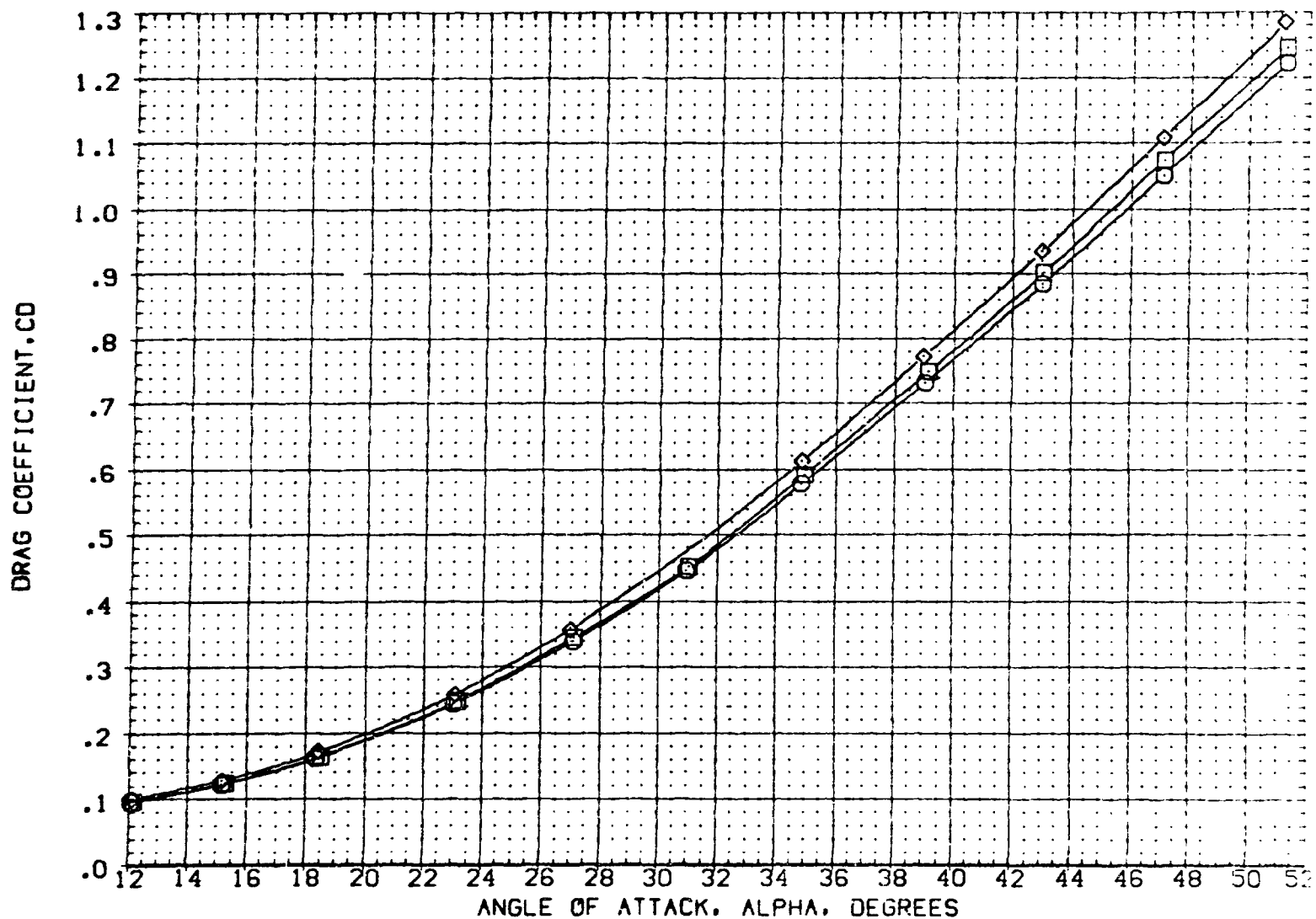


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(266018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(CB6017)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	
(CB6016)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	

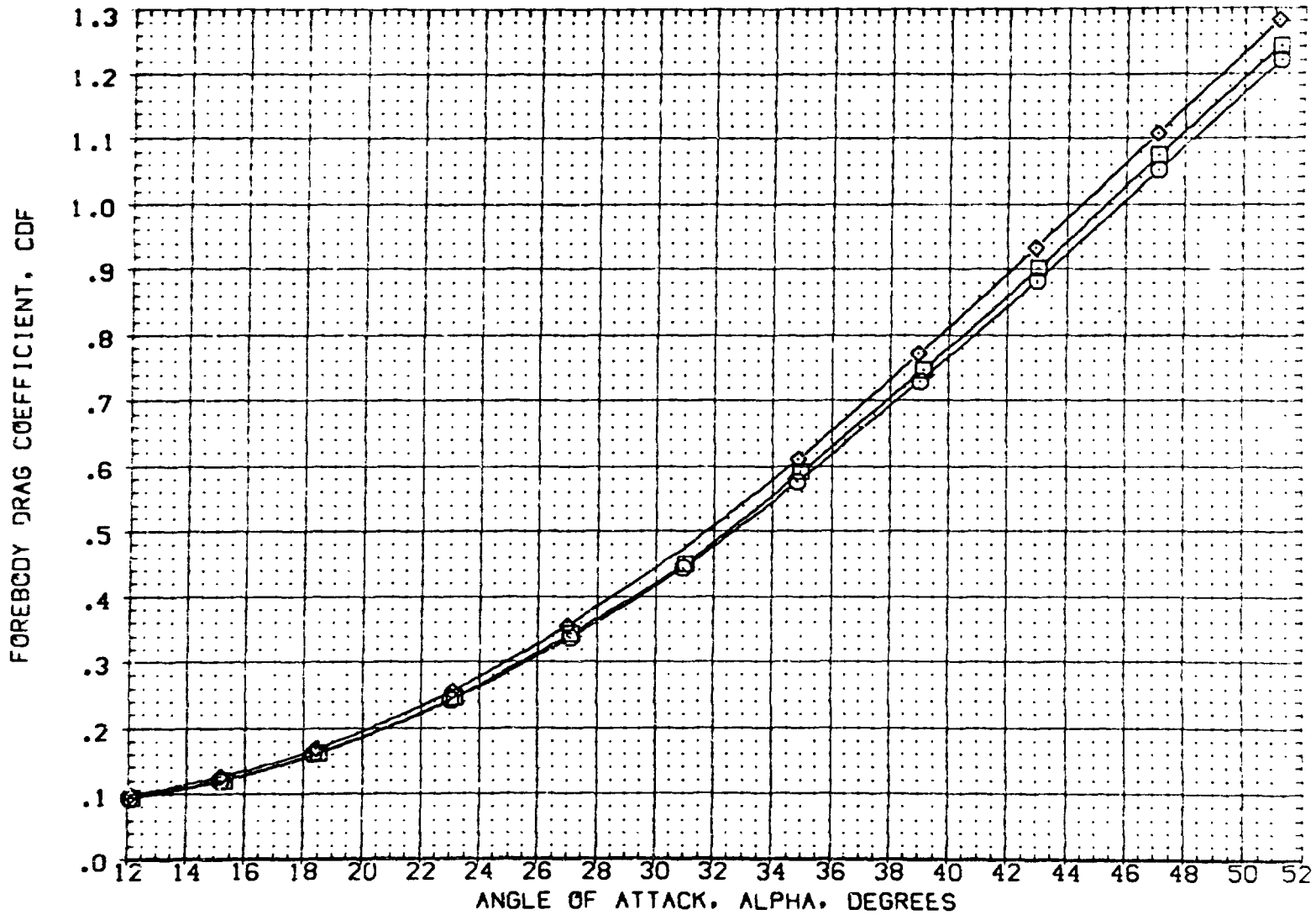


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	-14.250	55.000	.000	JREF 2690.0000 SQ. FT.
(CB6017)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 DA23 819 C7 E23 F5 M4 N6 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

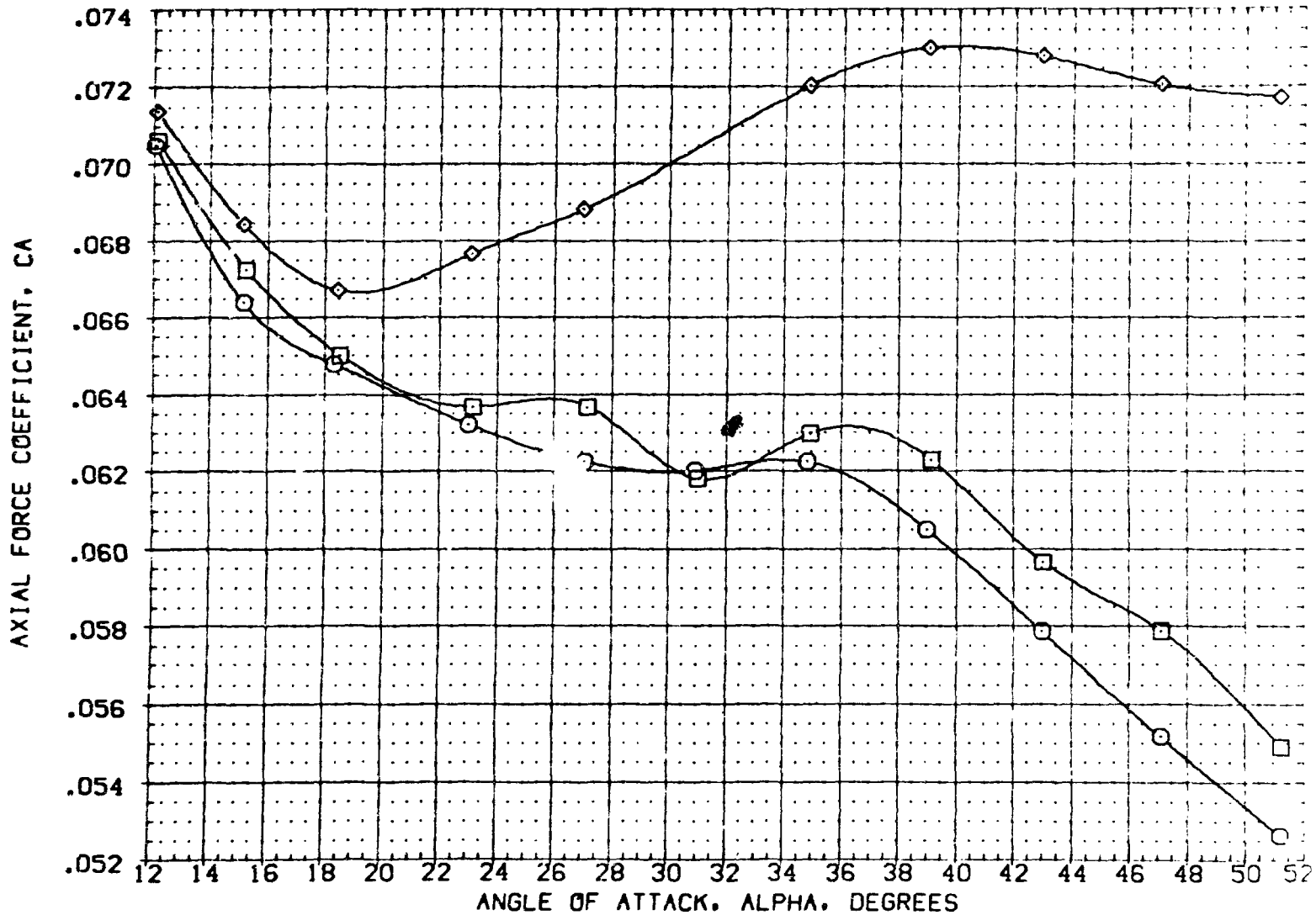


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENC. INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(286017)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(286016)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

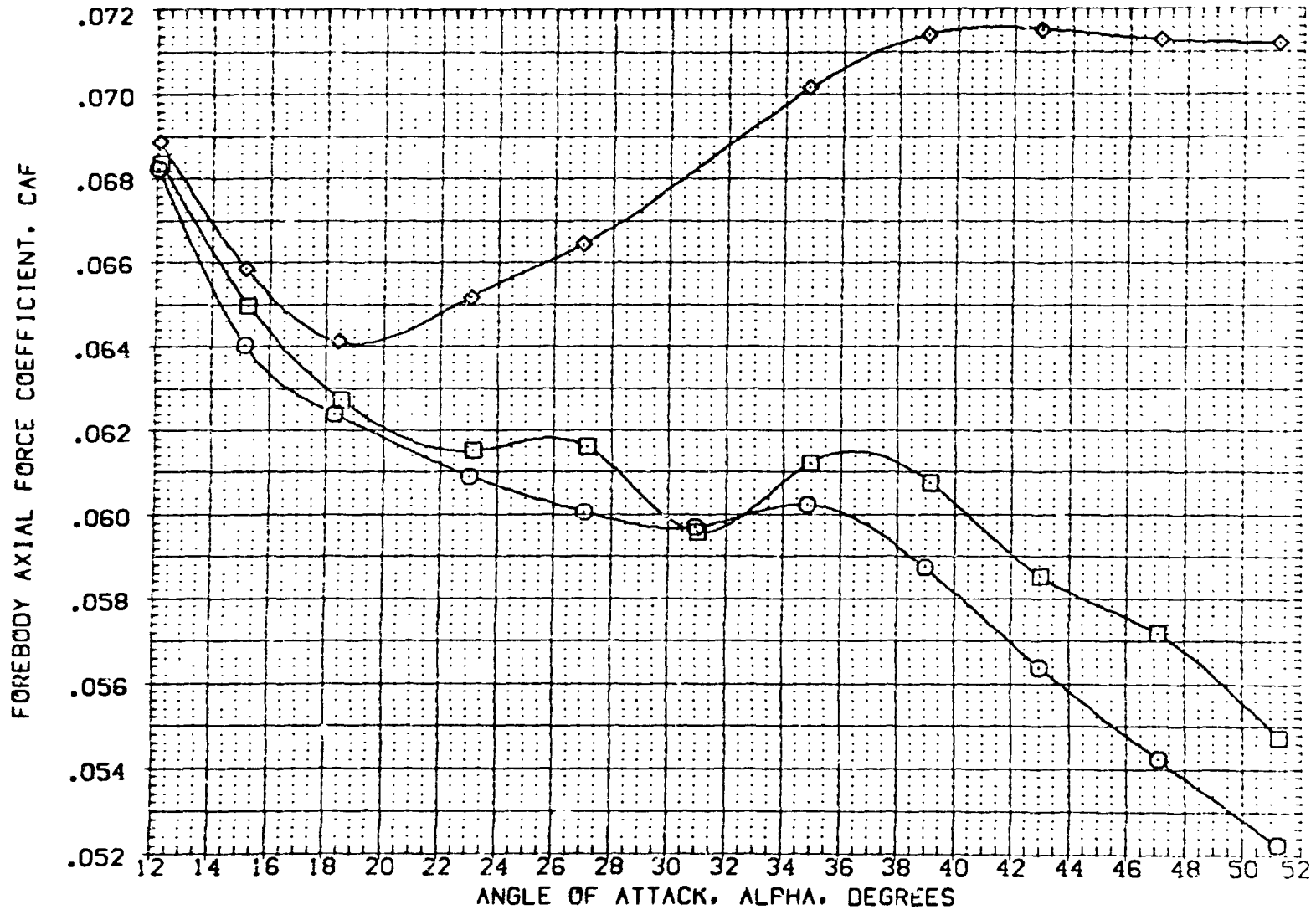


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPODBK	RUDDER	REFERENCE INFORMATION
(266018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000
(C86017)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000
(C86016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800
						XMRF 1076.1800
						YMRF 1000.0000
						ZMRF 400.0000
						SCALE .0100

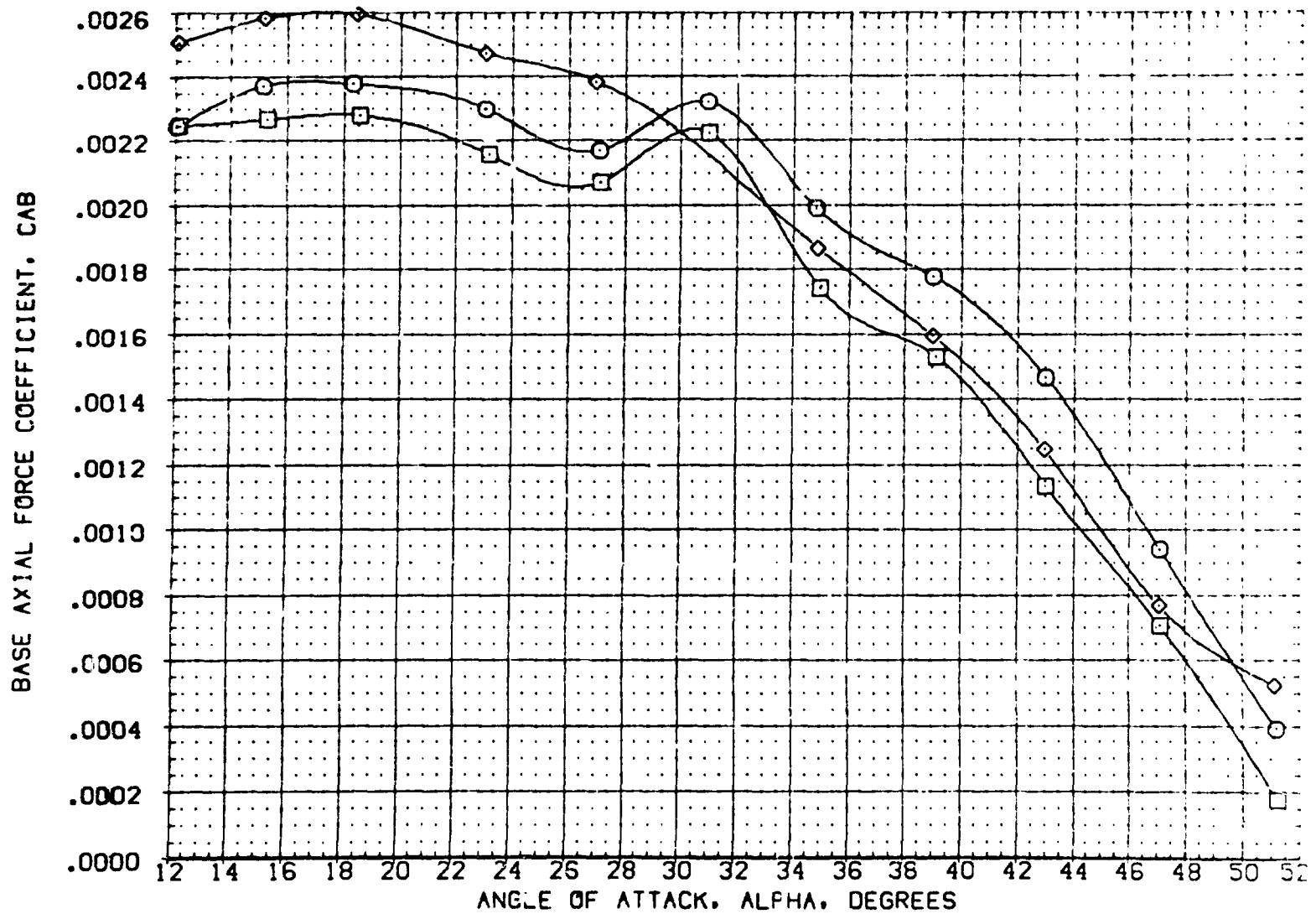


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6317)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6316)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

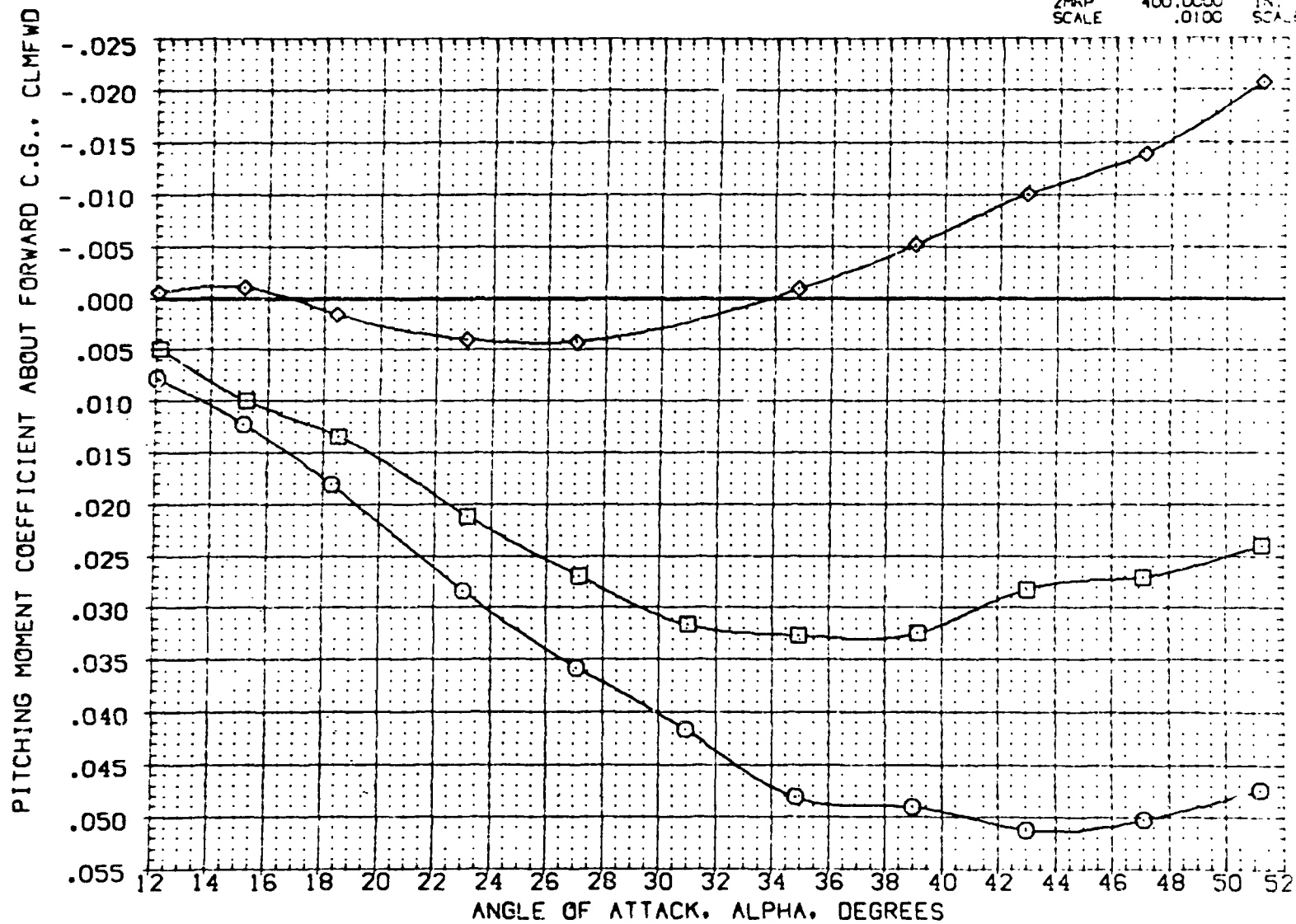


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6017)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6000 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

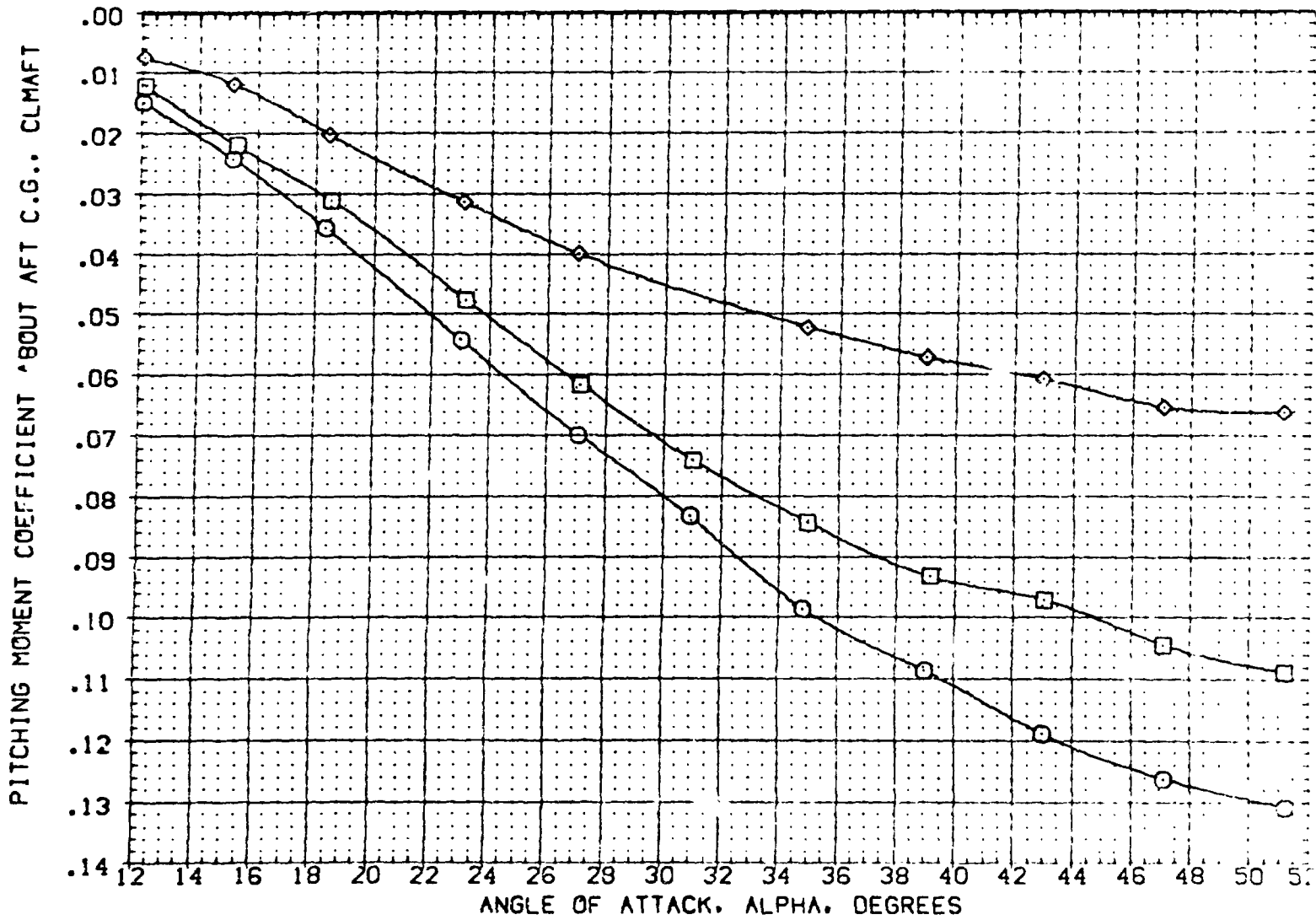


FIG. 8 BODY FLAP EFFECTS 1398 CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(206018)	○ AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(CB6017)	□ AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	◇ AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

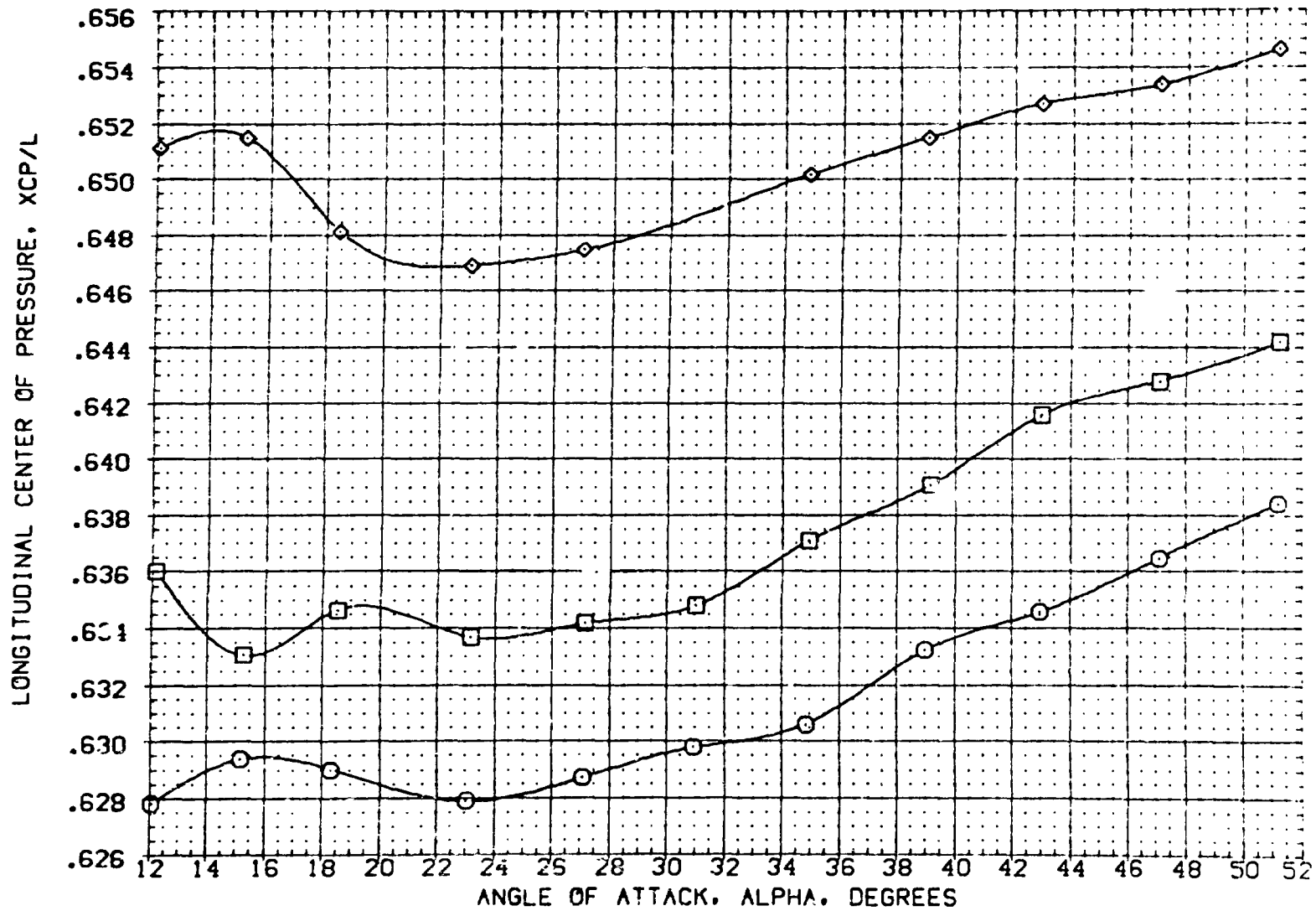


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886018)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC
(886017)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(886016)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

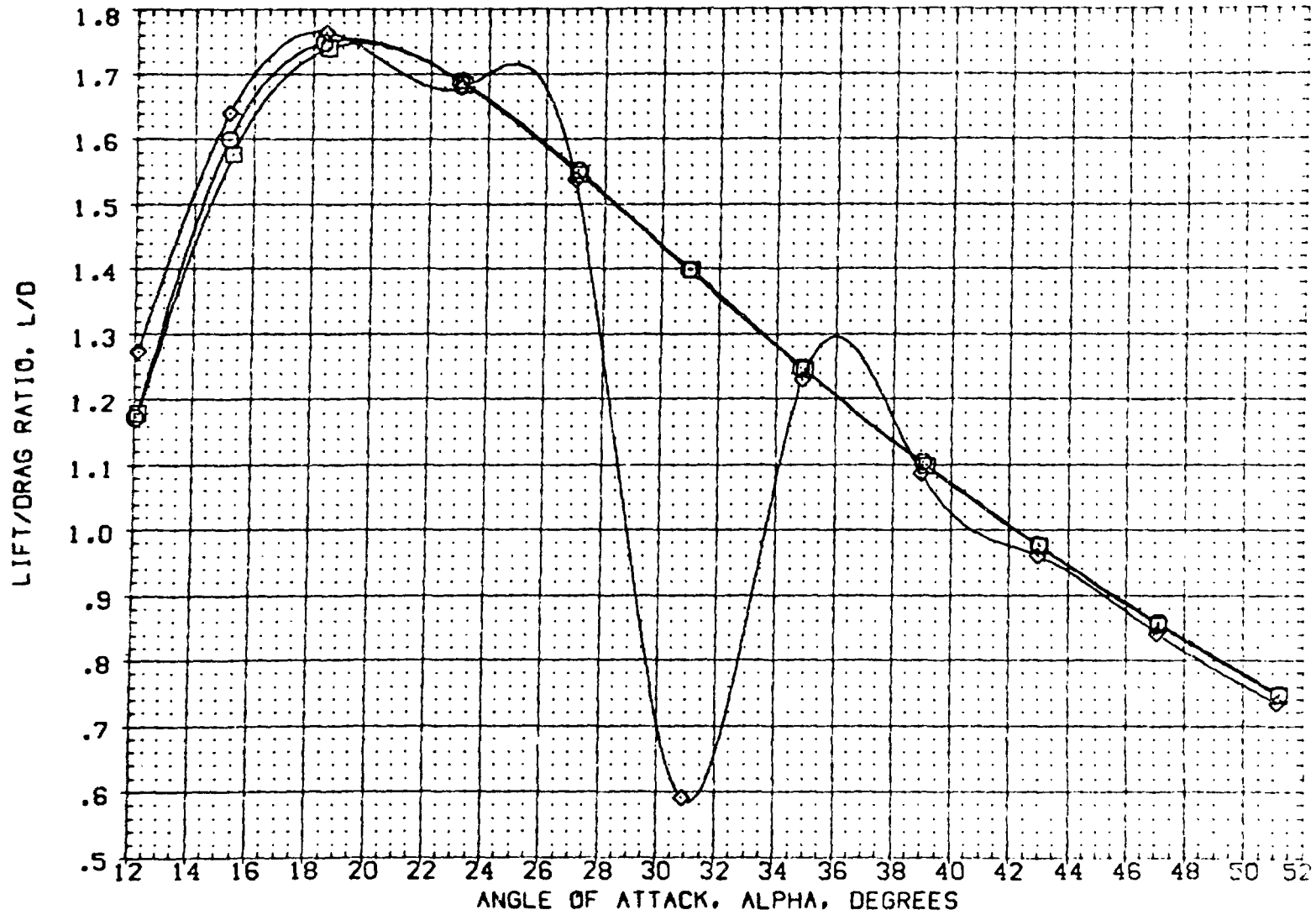


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BC FLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(CB6017)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

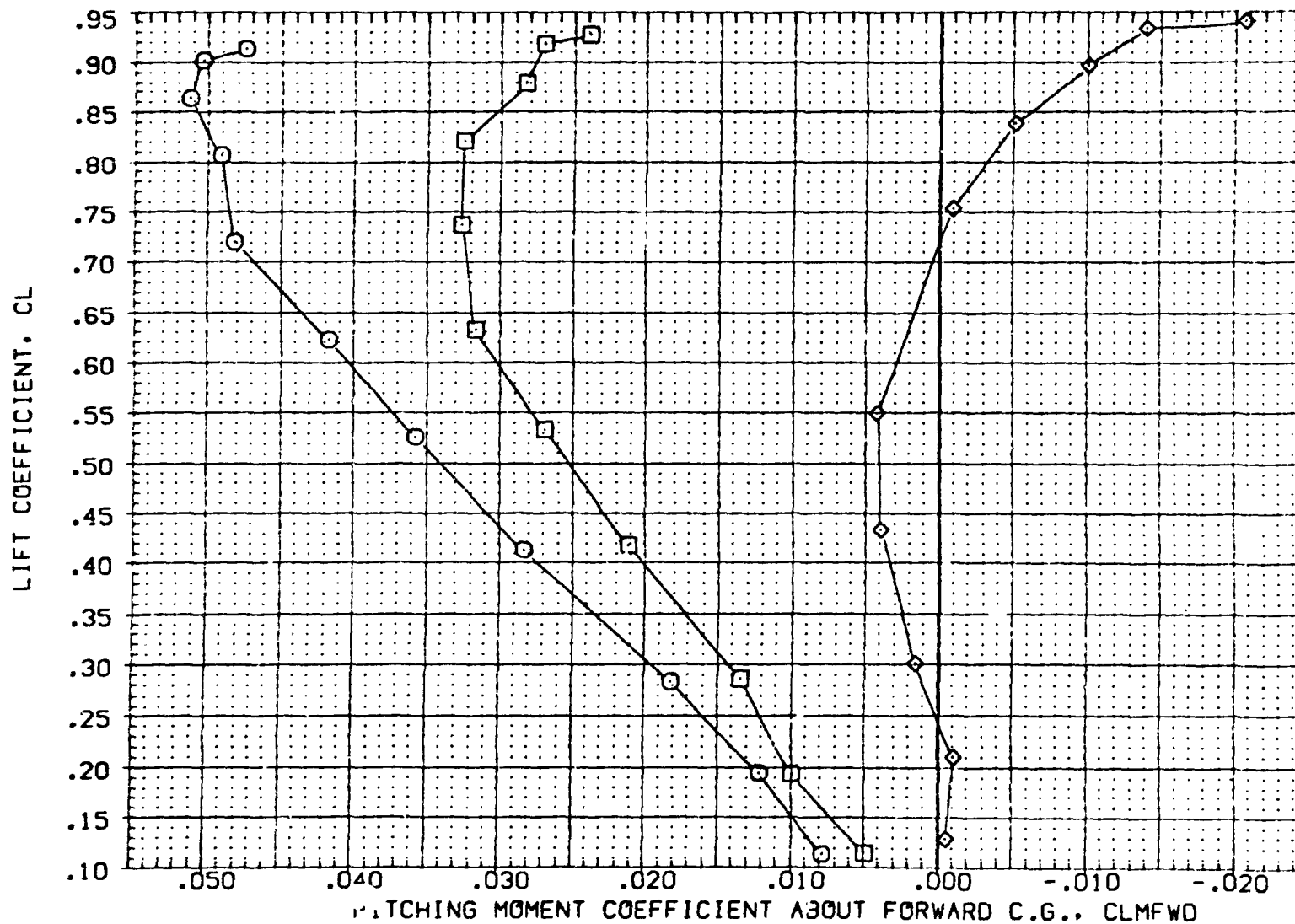


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.F
(CB6017)	AMES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

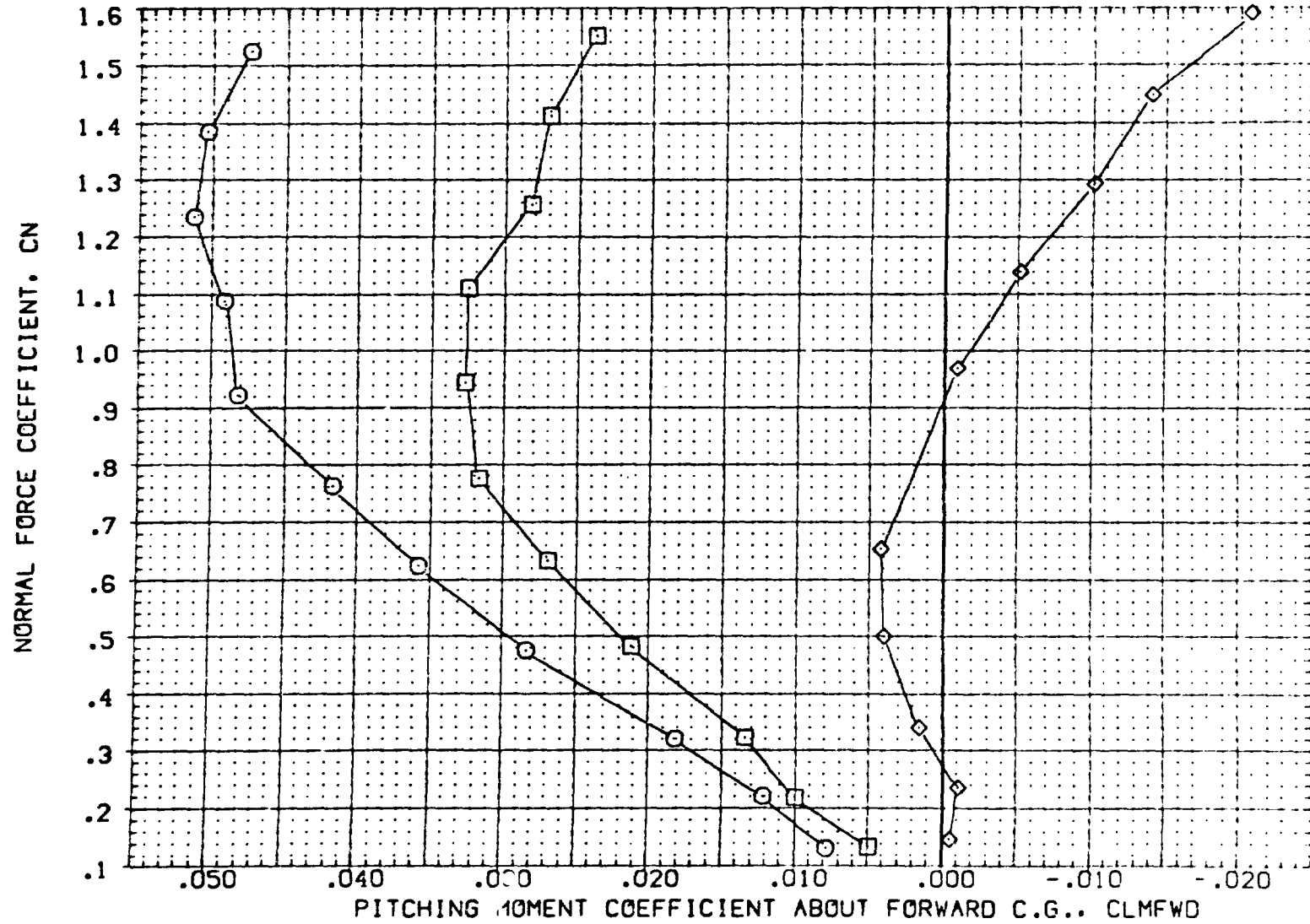


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(286018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.
(CB6017)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	.000	55.000	.000	LREF 474.8000 IN.
(CB6016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

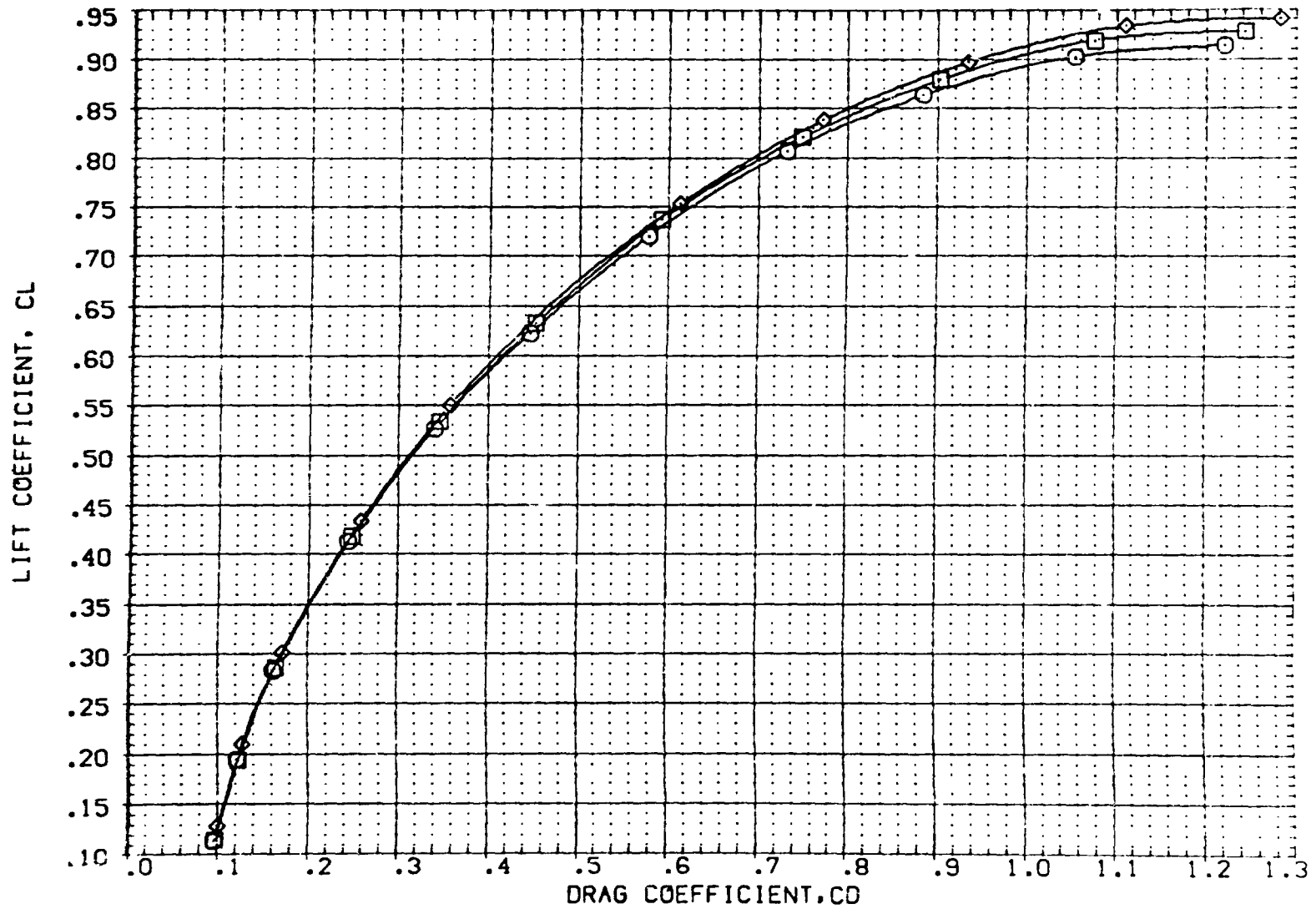


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

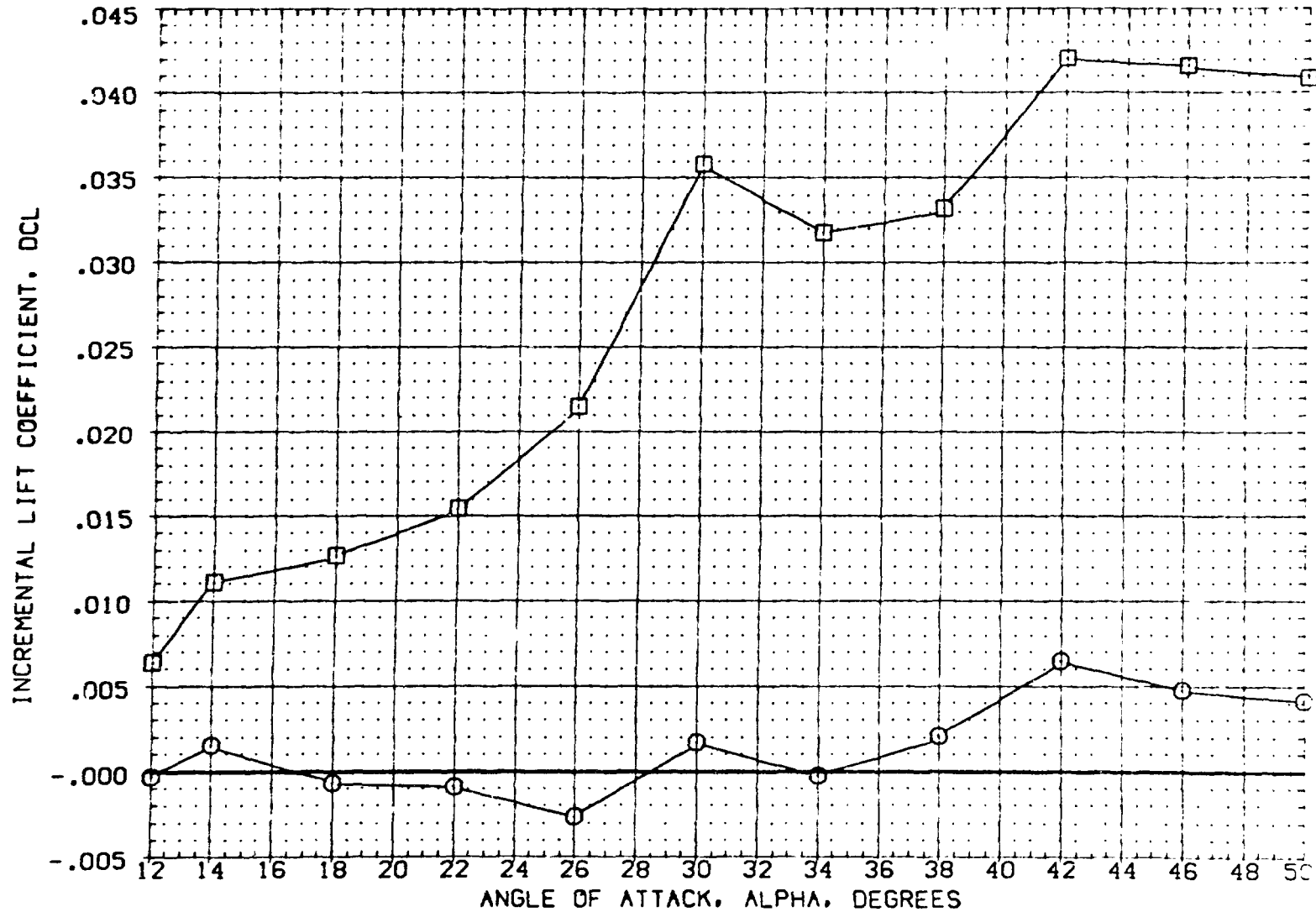


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86012)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4600 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(T86011)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

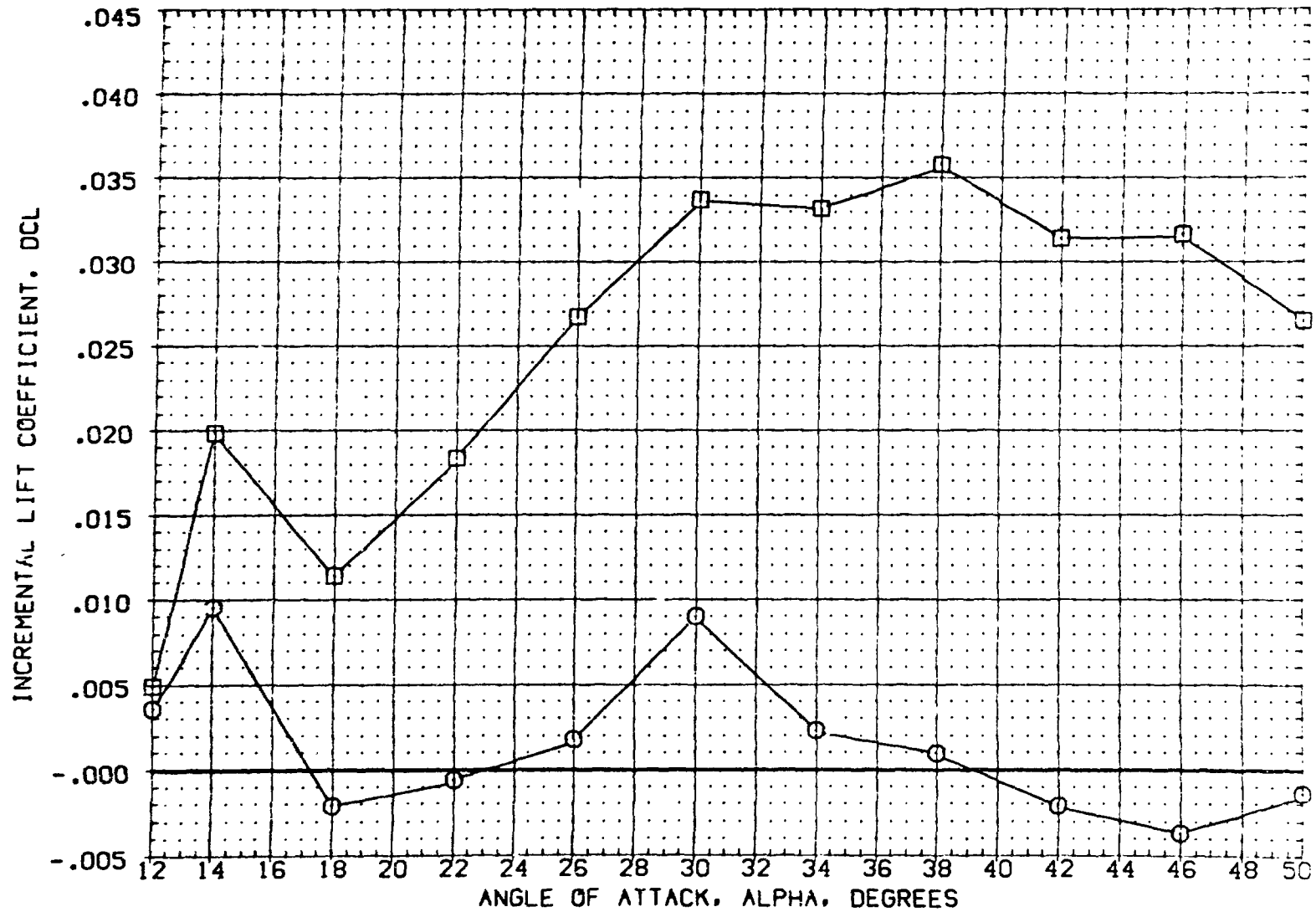


FIG. 8 BODY FLAP EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDRFX	RUDDER	REFERENCE INFORMATION
(T86012)	AMES3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(T86011)	AMES3.5-168 0A23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

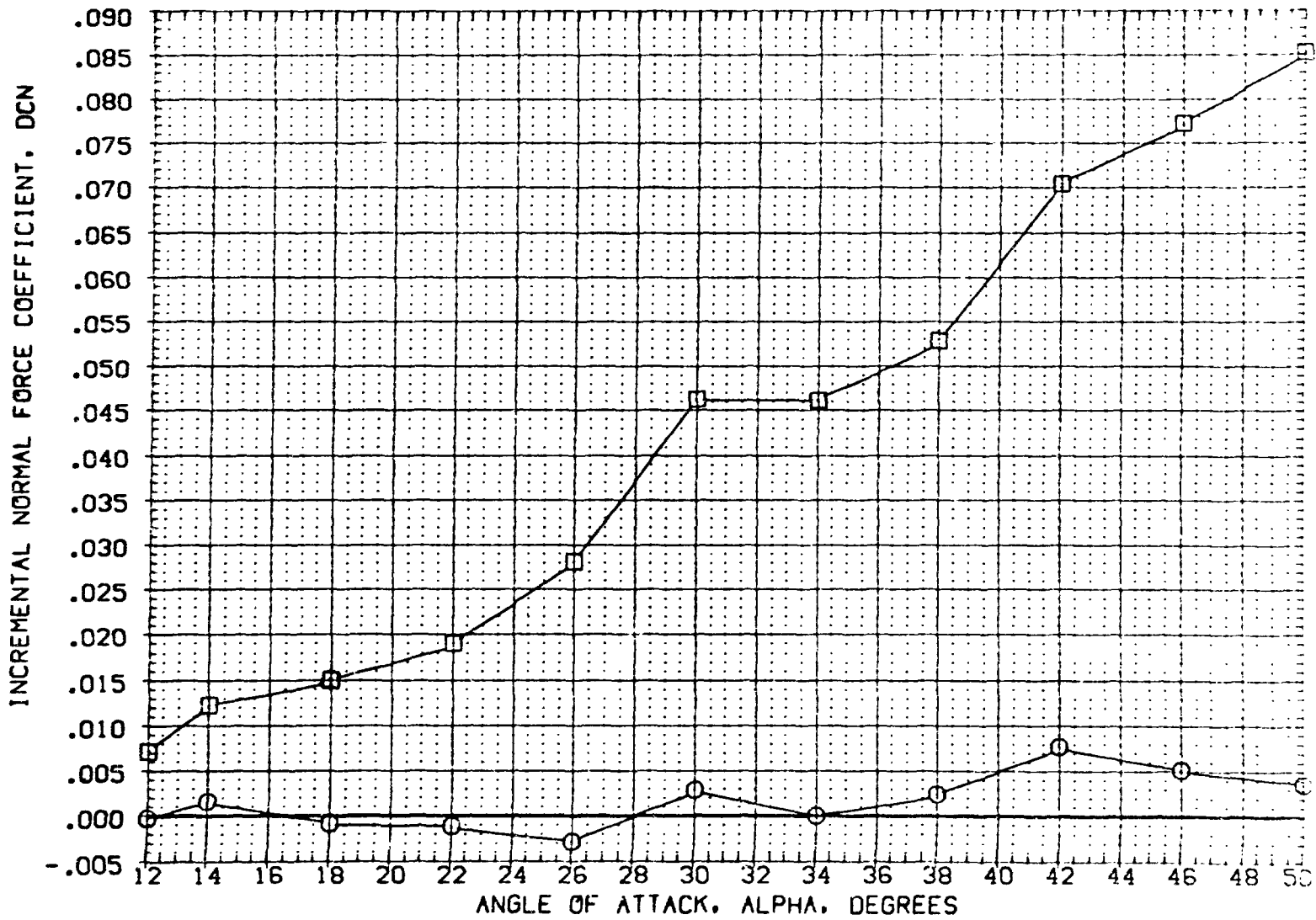


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(TB6011)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRF 1076.4800 IN.
						YMRF .0000 IN.
						ZMRF 400.0000 IN.
						SCALE .0100 SCALE

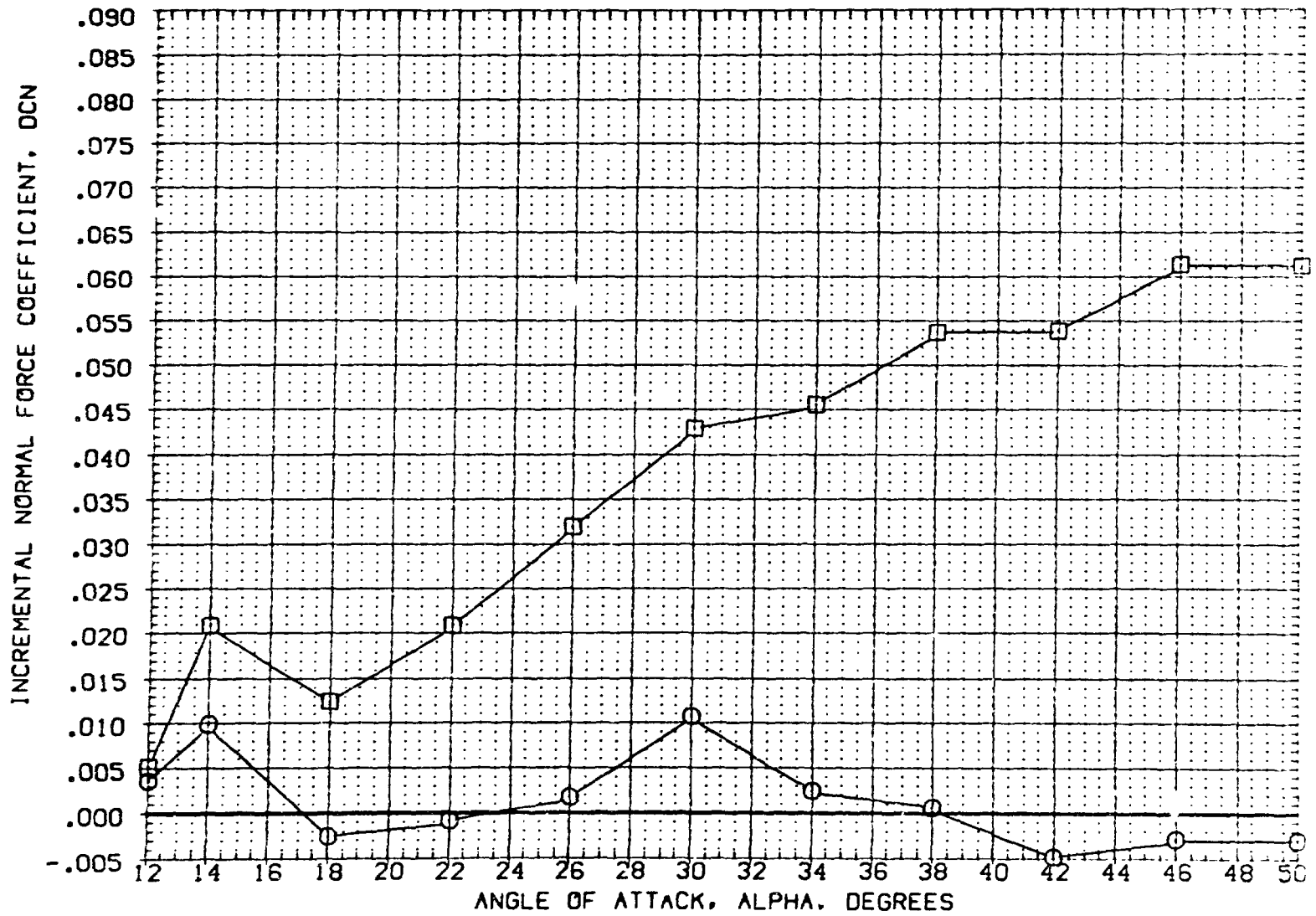


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.20 PAGE 467

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDRK	RUDDER	REFERENCE INFORMATION
(TB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT. LREF 474.8000 IN. BREF 936.6600 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(TB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

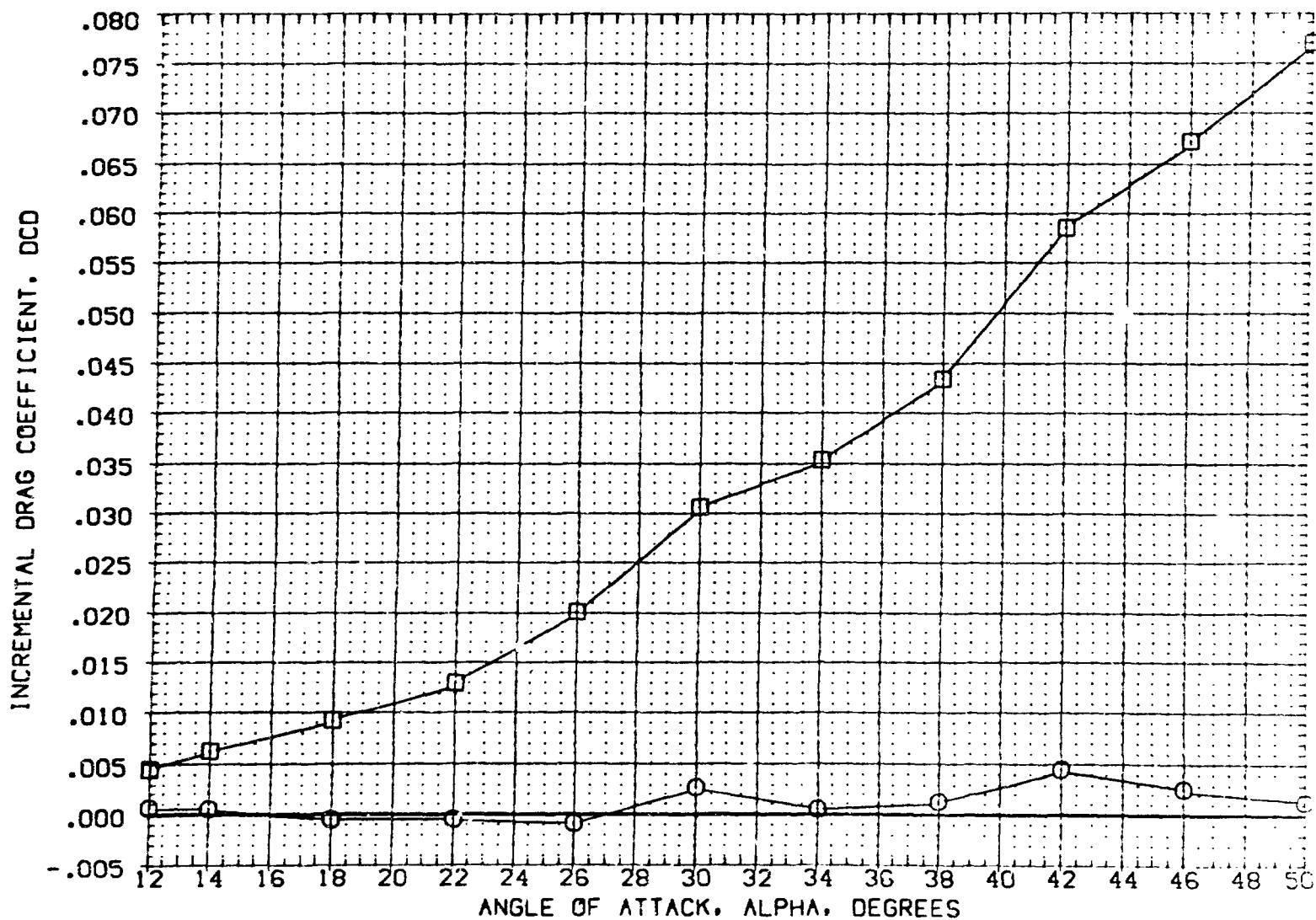


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(186012)	AMES3.5-168 SA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2650.0000 SQ. FT.
(186011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 336.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

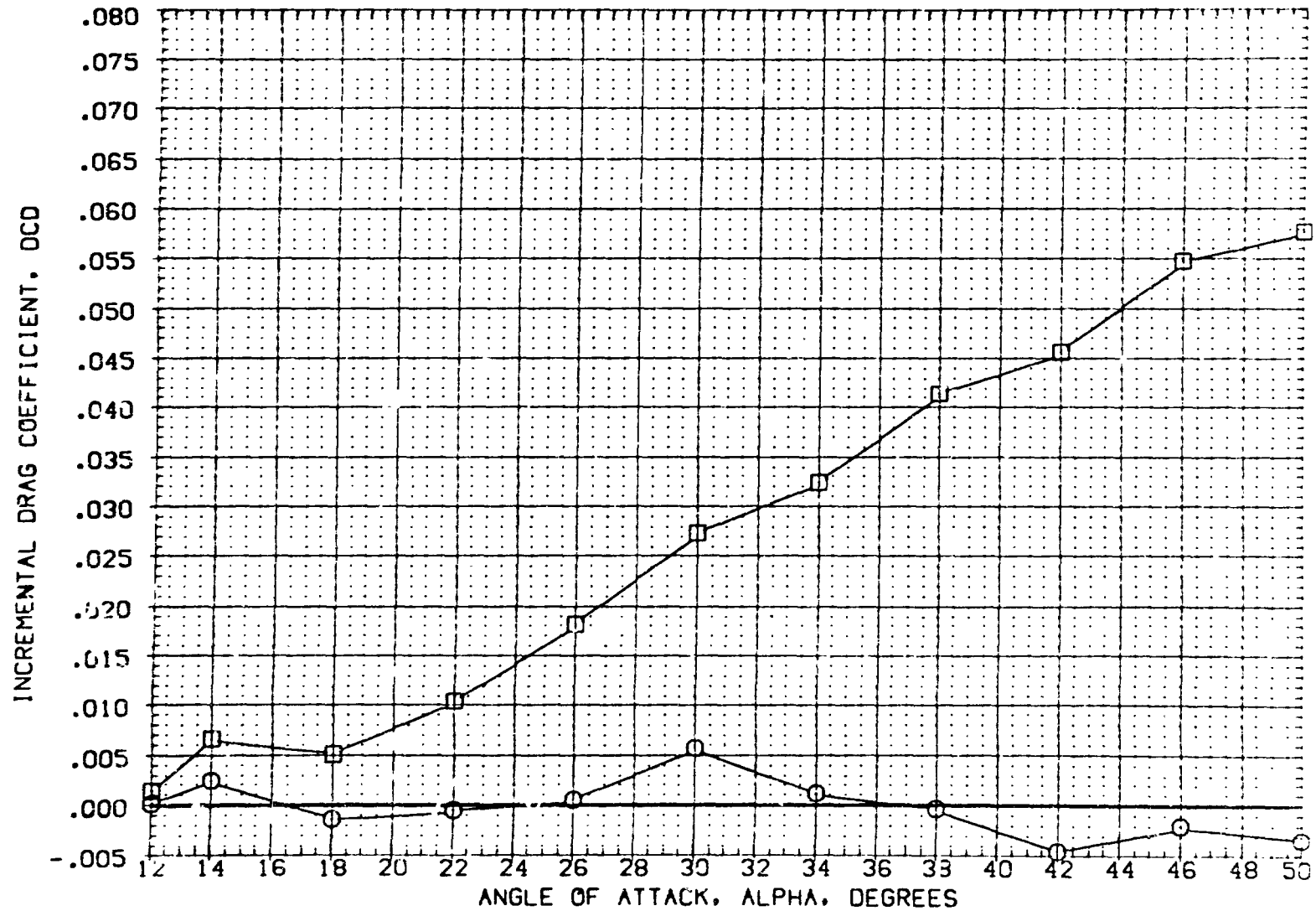


FIG. 9 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBANK	RUDDER	REFERENCE INFORMATION
(T86012)	□ AMES3,5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 IN. LREF 474.8000 IN. BREF 936.6000 IN. XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(T86011)	○ AMES3,5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	13.750	55.000	.000	

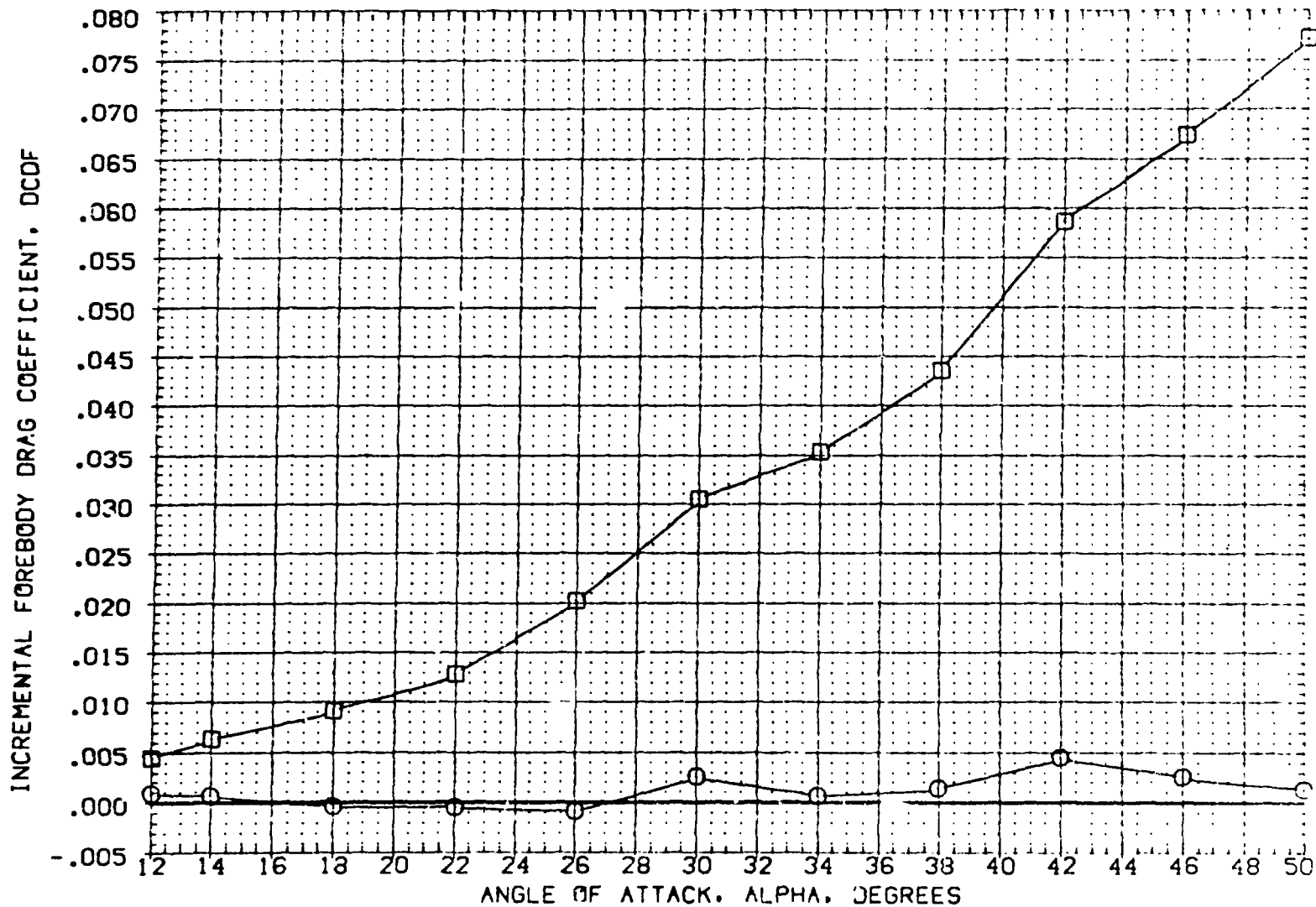


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(186012)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(186011)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

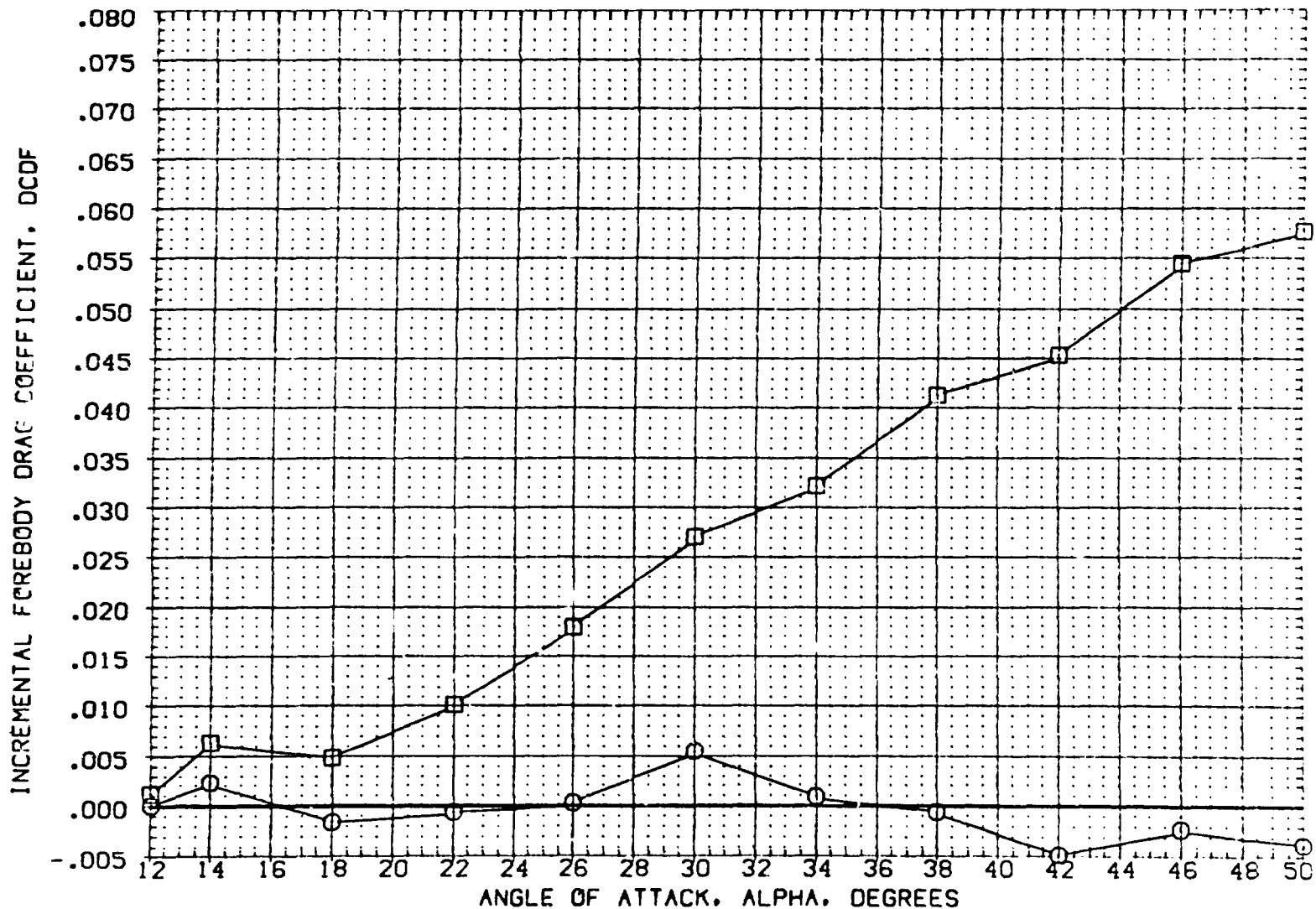


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(186012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.F.T. LREF 474.8000 IN.
(186011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	13.750	55.000	.000	BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE

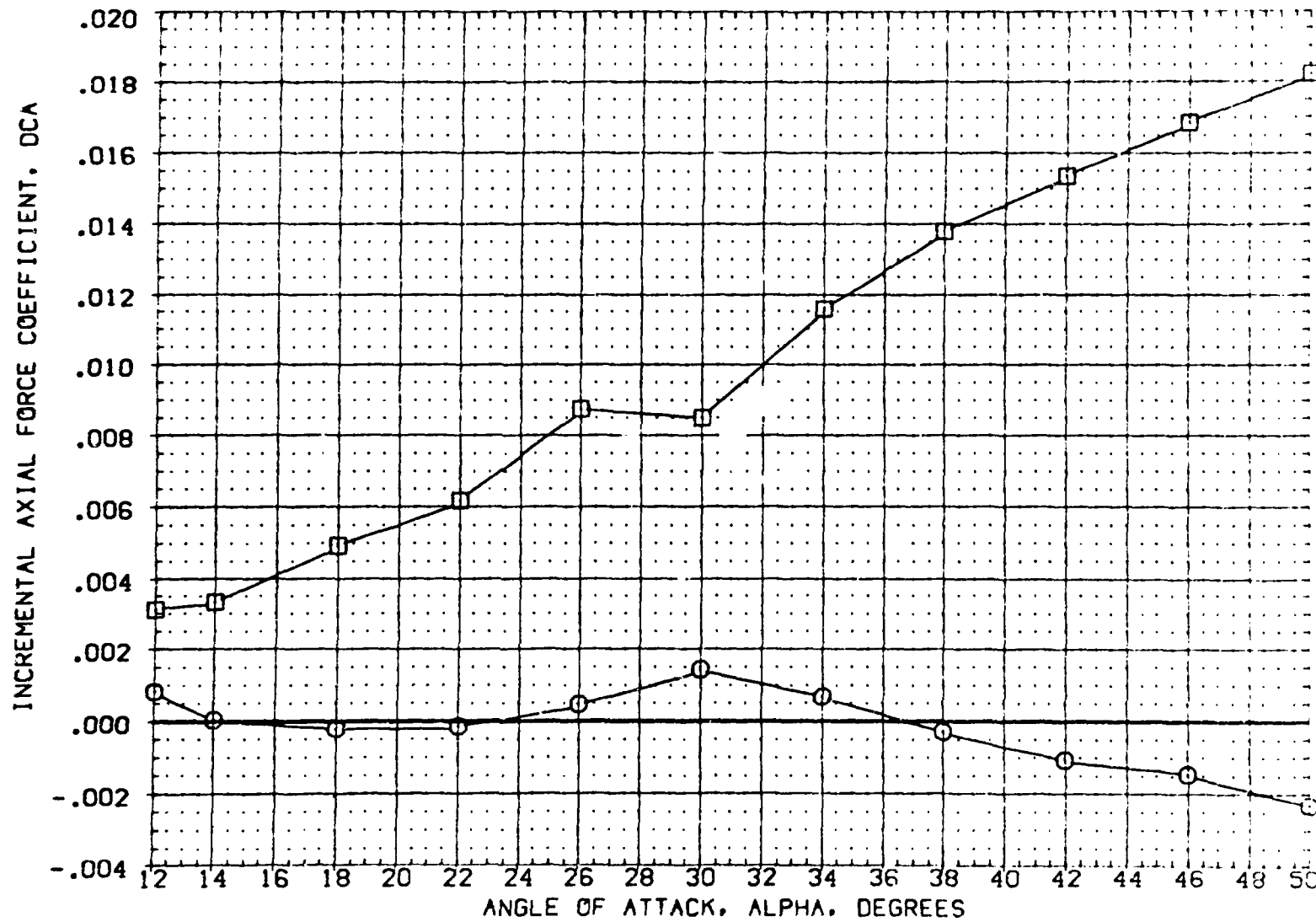


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(186012)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(186011)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

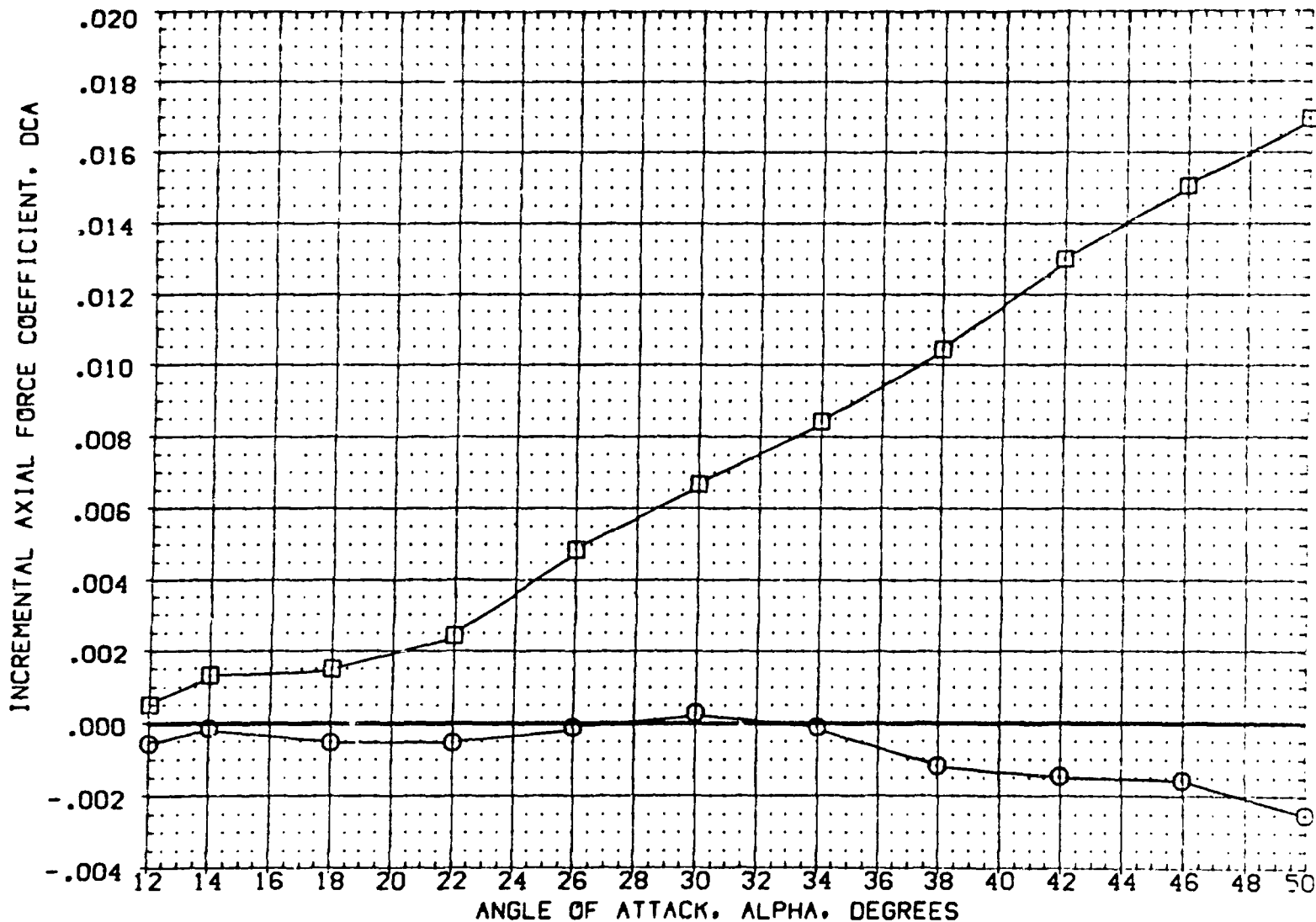


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86012)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(T86011)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

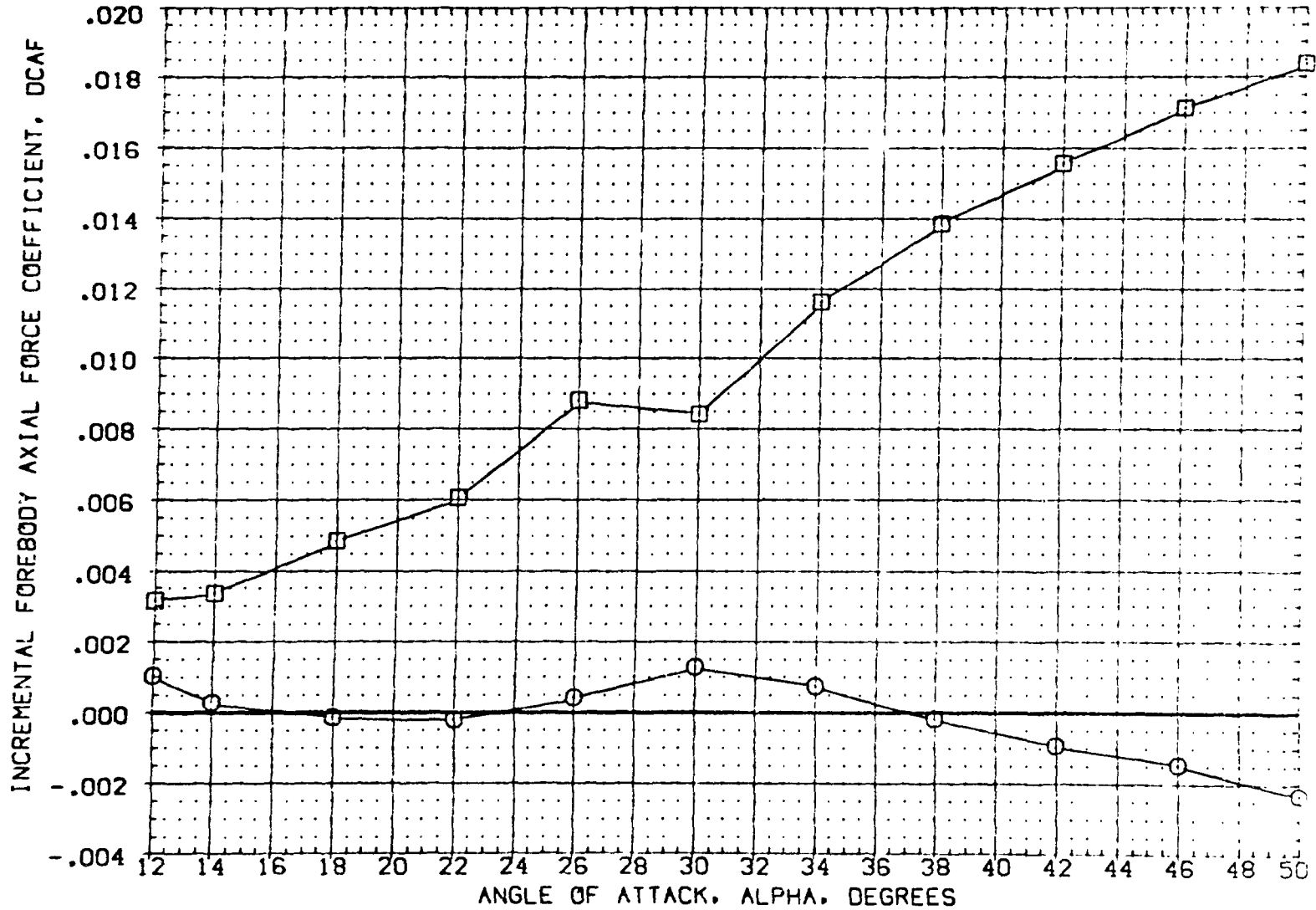


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6012)	○ AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC. FT.
(TB6011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

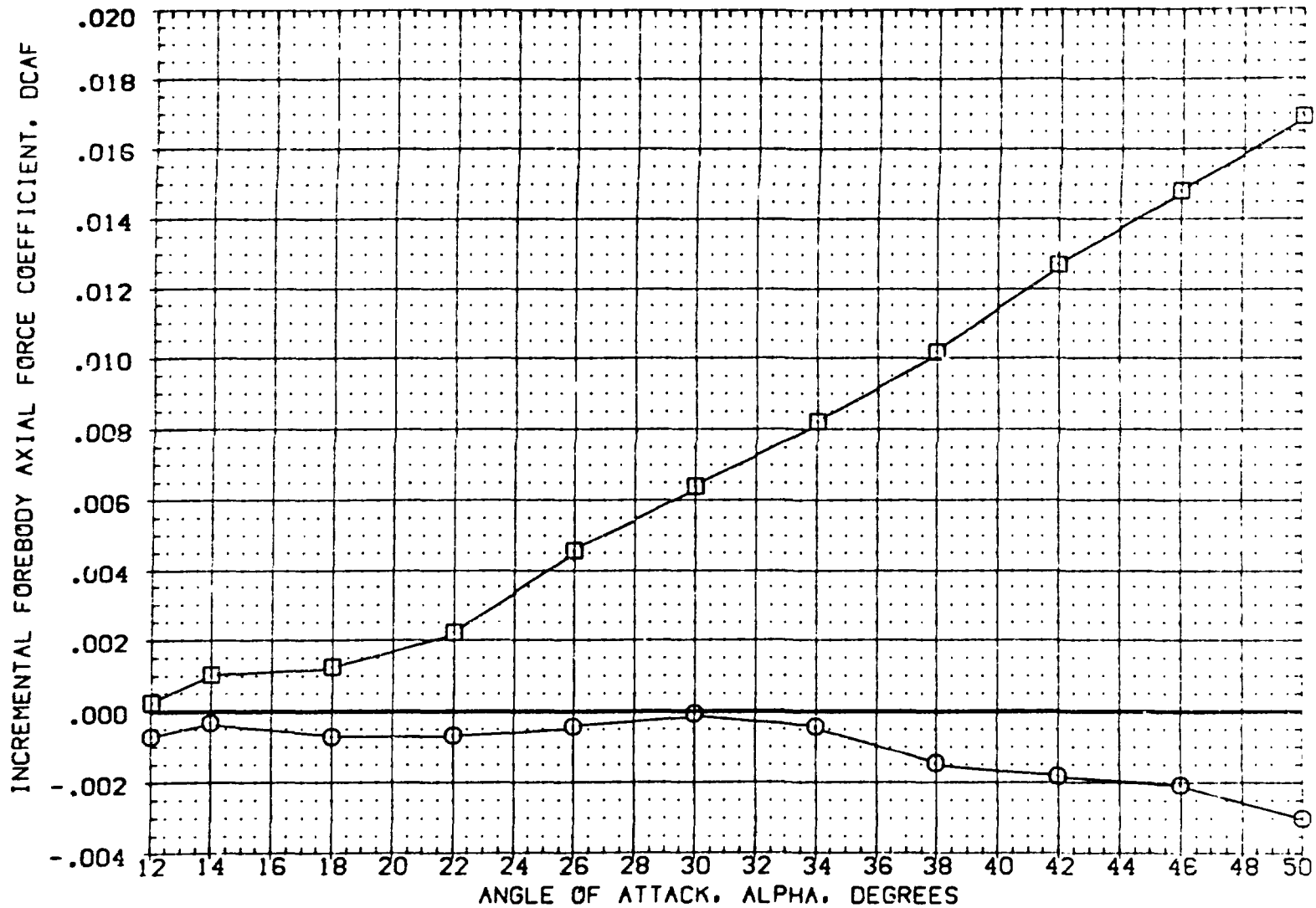


FIG. 8 BODY FLAP EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	CFM/RPM	RUDDER	REFERENCE INFORMATION
(TB6012)	○ AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6011)	□ AMES3.5-168 0A23 B19 C7 E23 FS M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 996.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

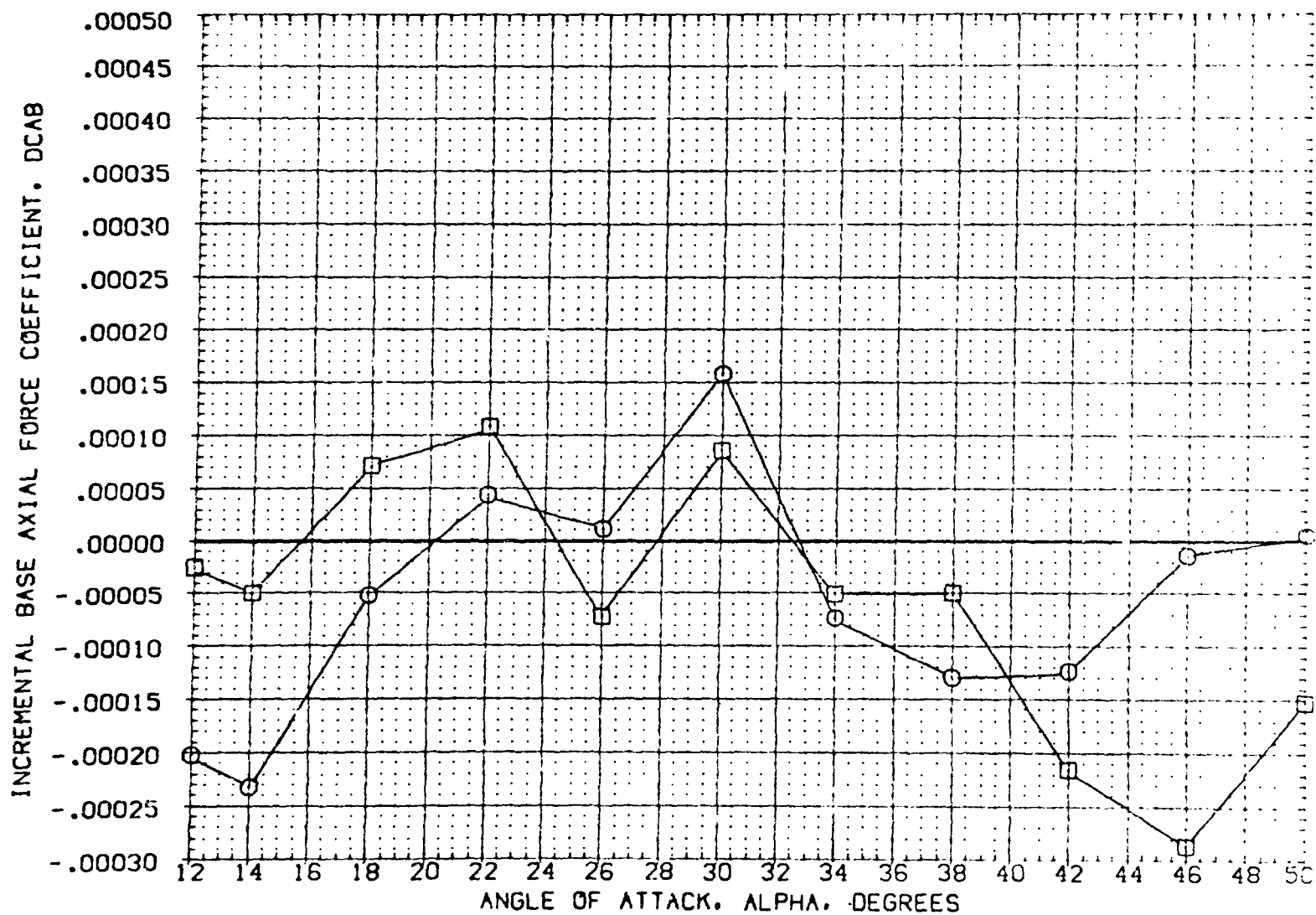


FIG. 8 BODY FLAP EFFECTS
(A) MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T96012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(T96011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 935.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

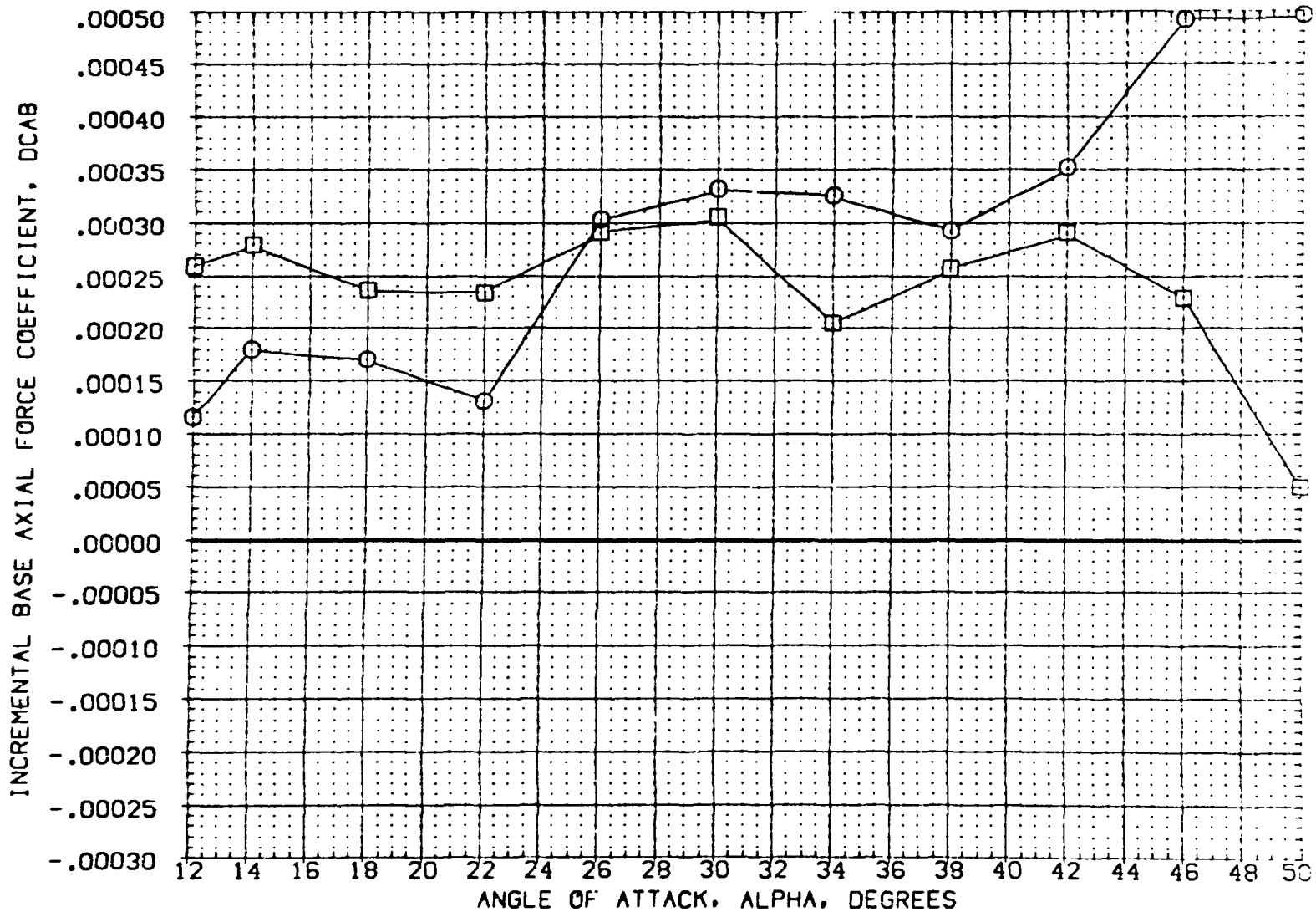


FIG. 8 BODY FLAP EFFECTS

199B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(TB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

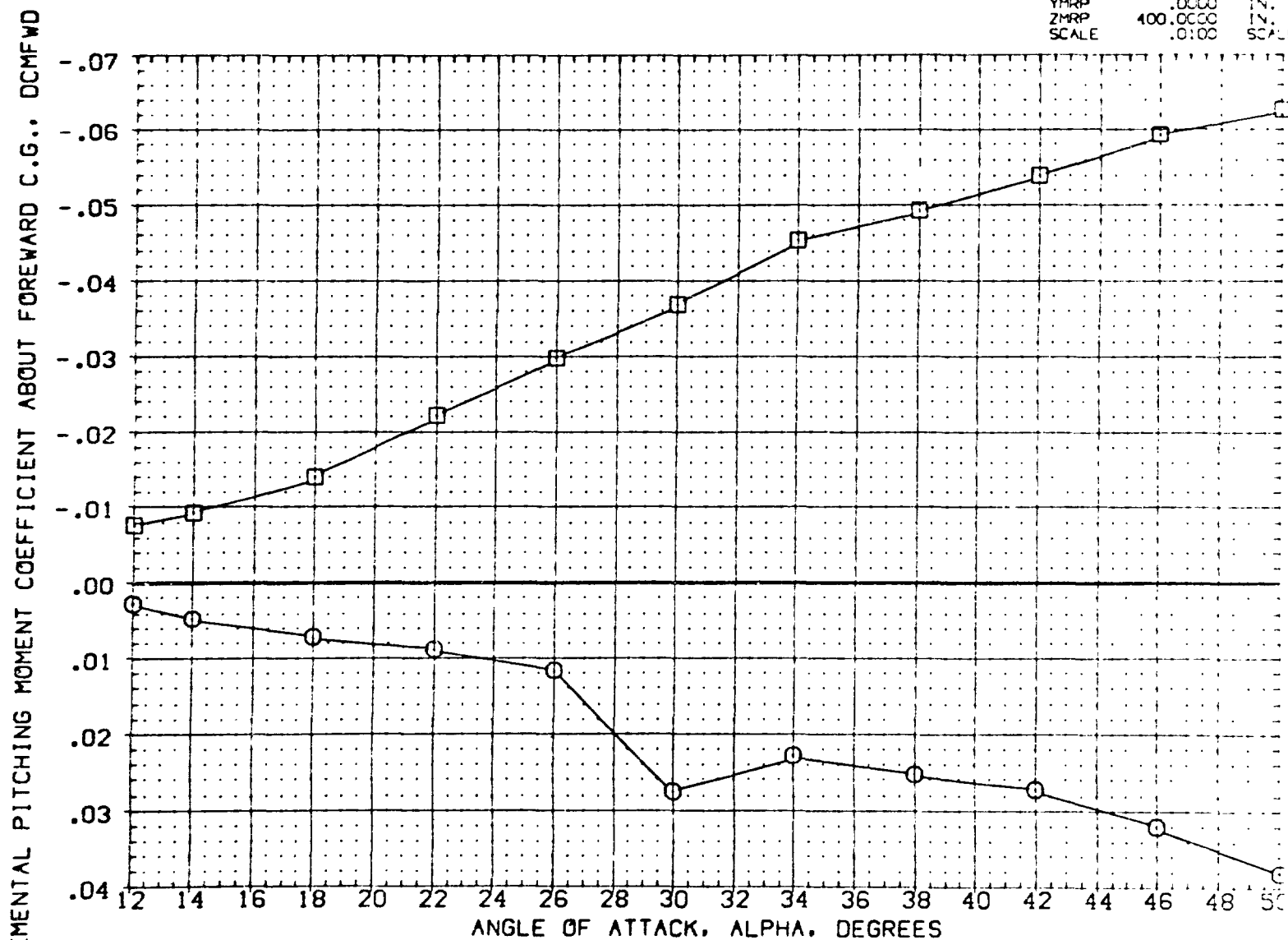


FIG. 8 BODY FLAP EFFECTS
(A)MACH = 5.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RJDDER	REFERENCE INFORMATION
(TB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE
(TB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	

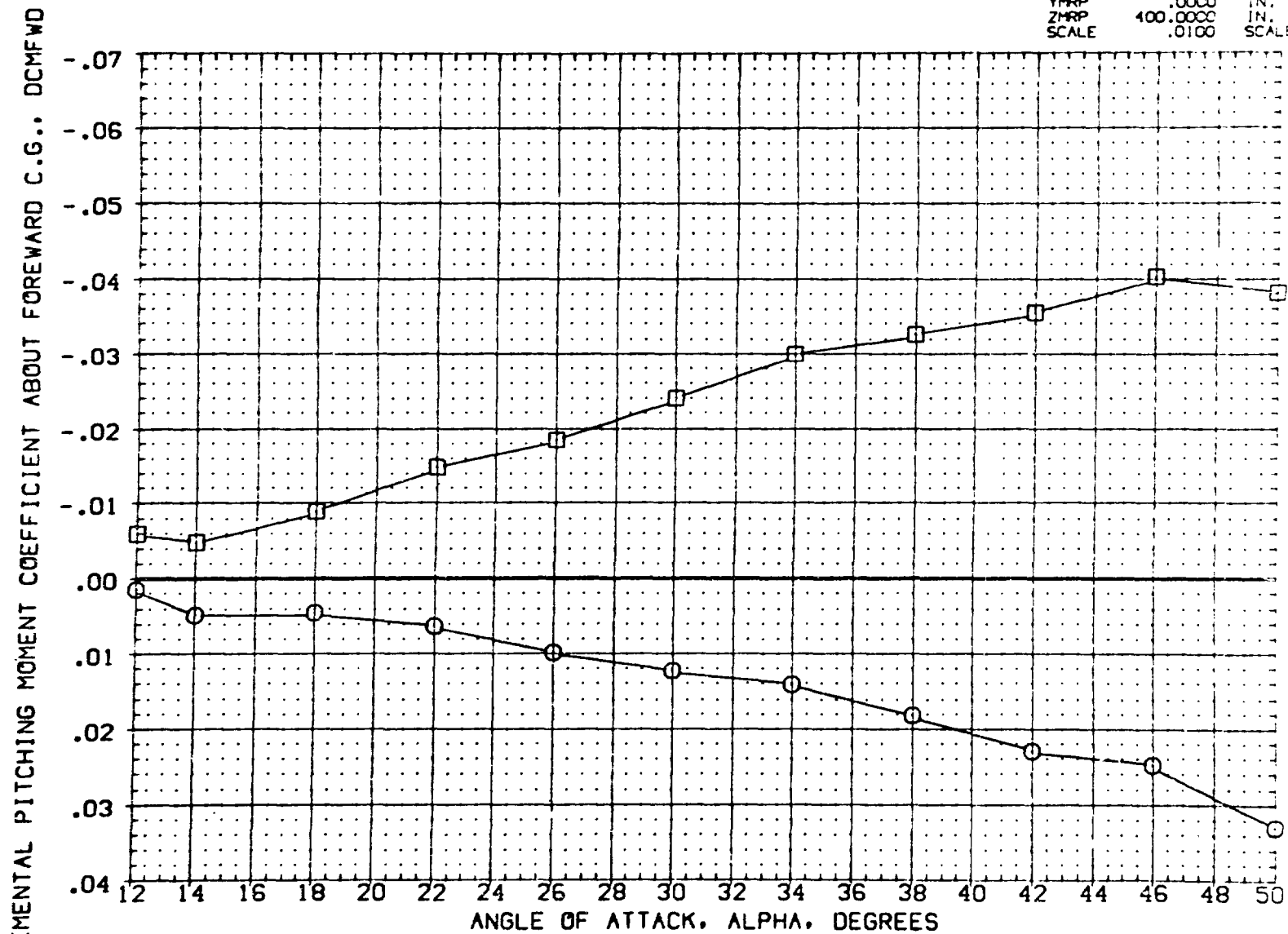


FIG. 8 BODY FLAP EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6012)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(TB6011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	

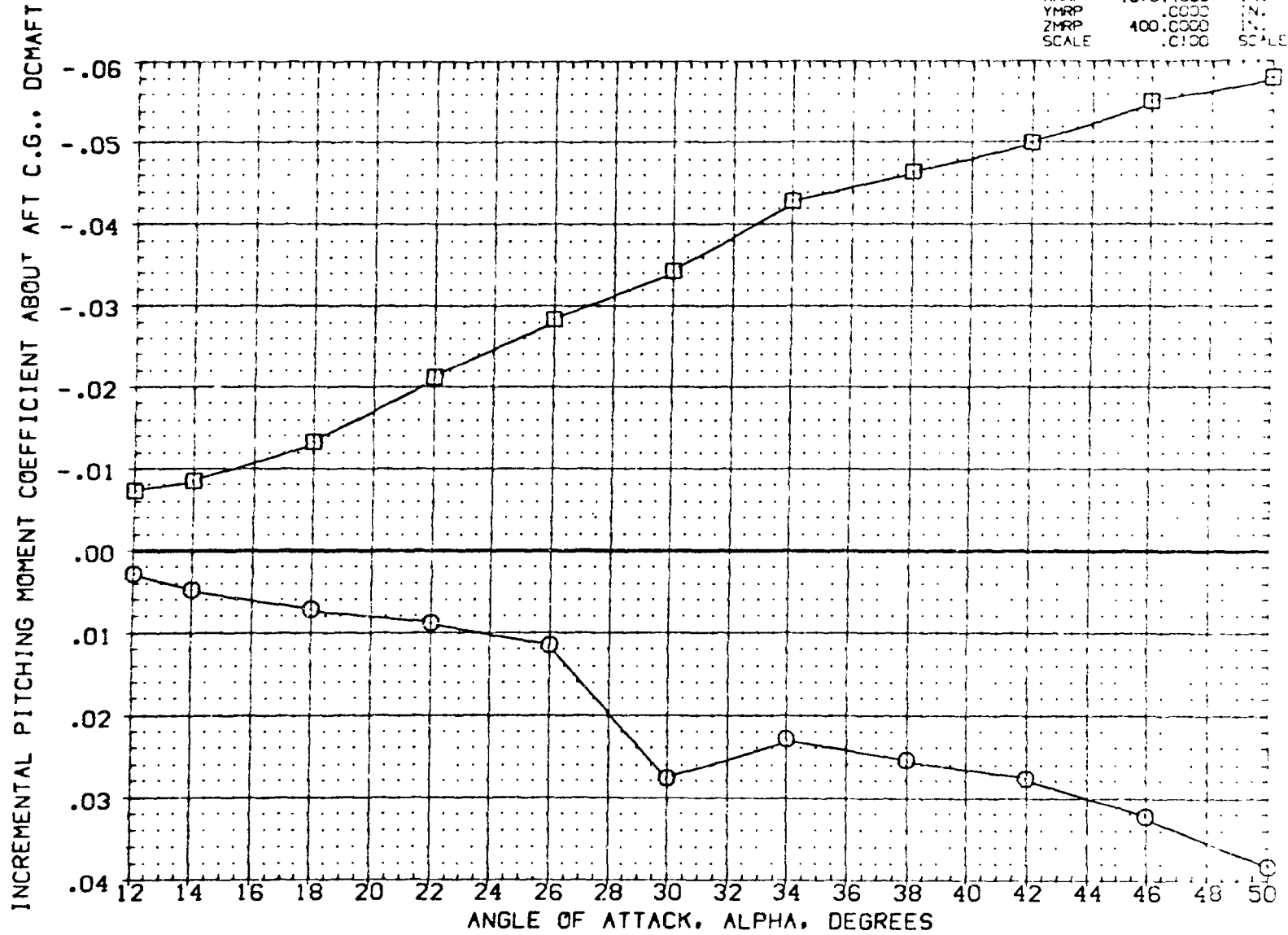


FIG. 8 BODY FLAP EFFECTS 100B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86012)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(T86011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

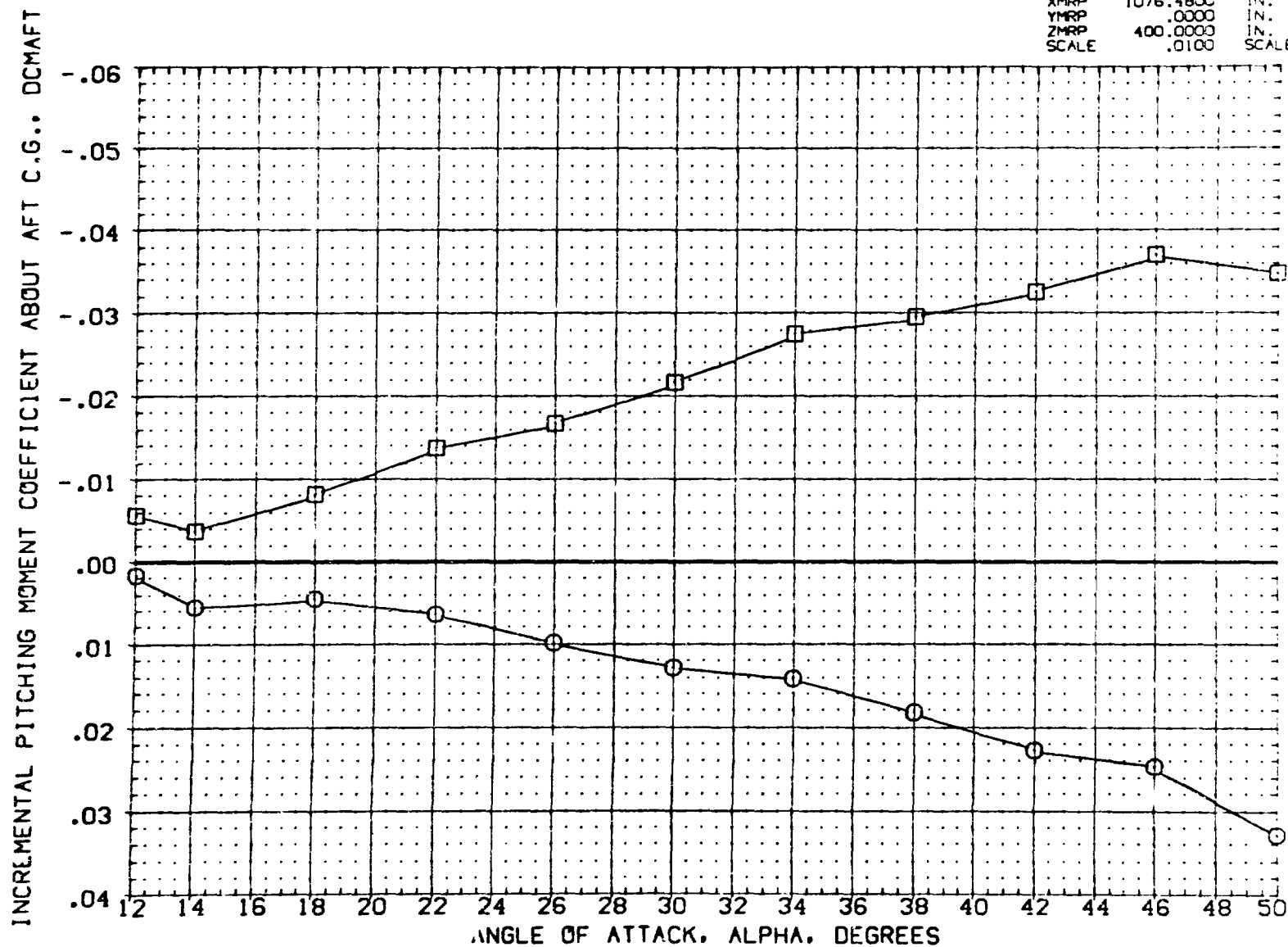


FIG. 8 BODY FLAP EFFECTS
(B)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(TBG018)	○ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4850 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(TBG016)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	

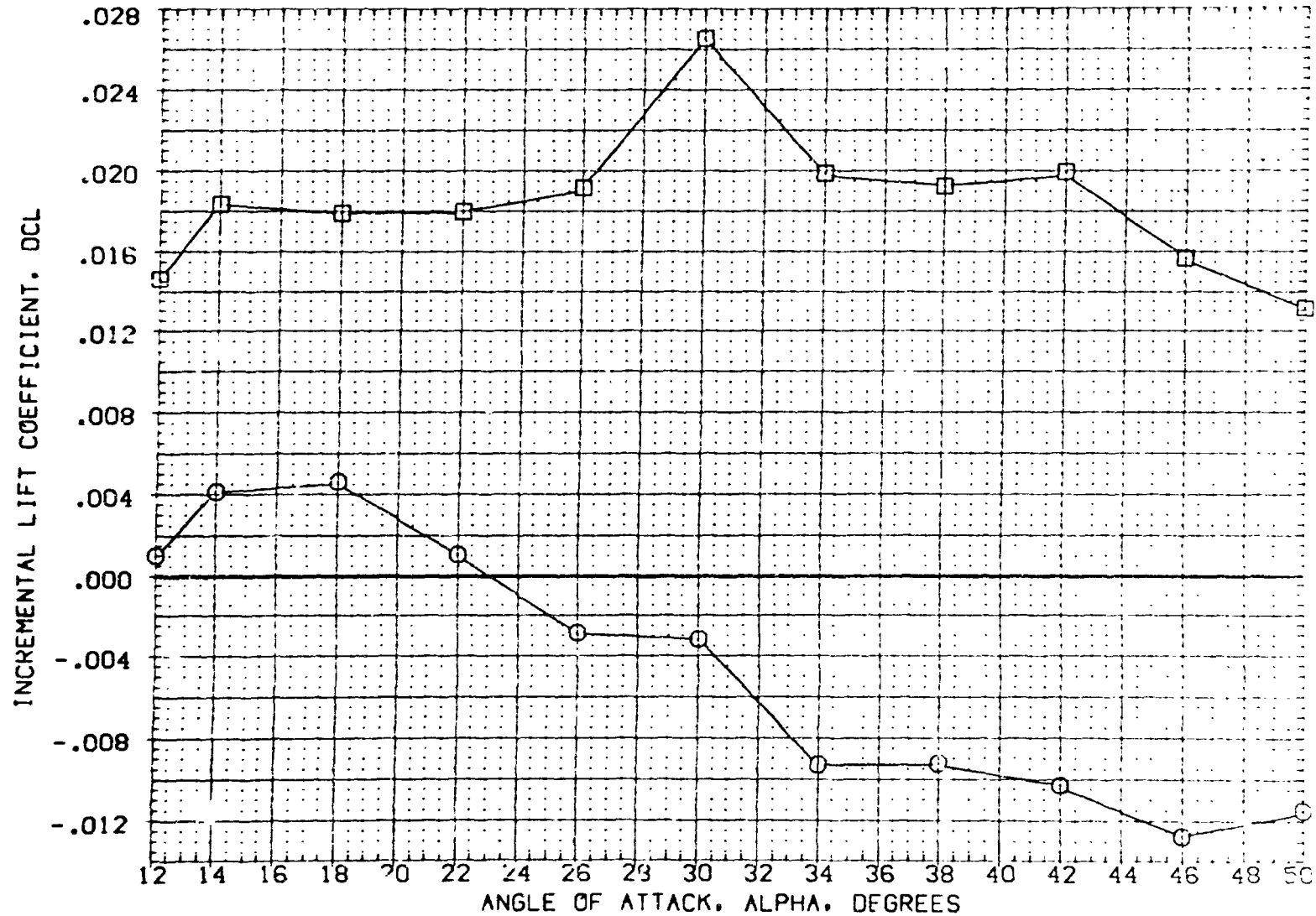


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TBSU18)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	TREF 2690.0000 SQ.FT.
(TBSU16)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRRP 1076.4800 IN.
						YMRRP .0000 IN.
						ZMRRP 400.0000 IN.
						SCALE .0100 SCALE

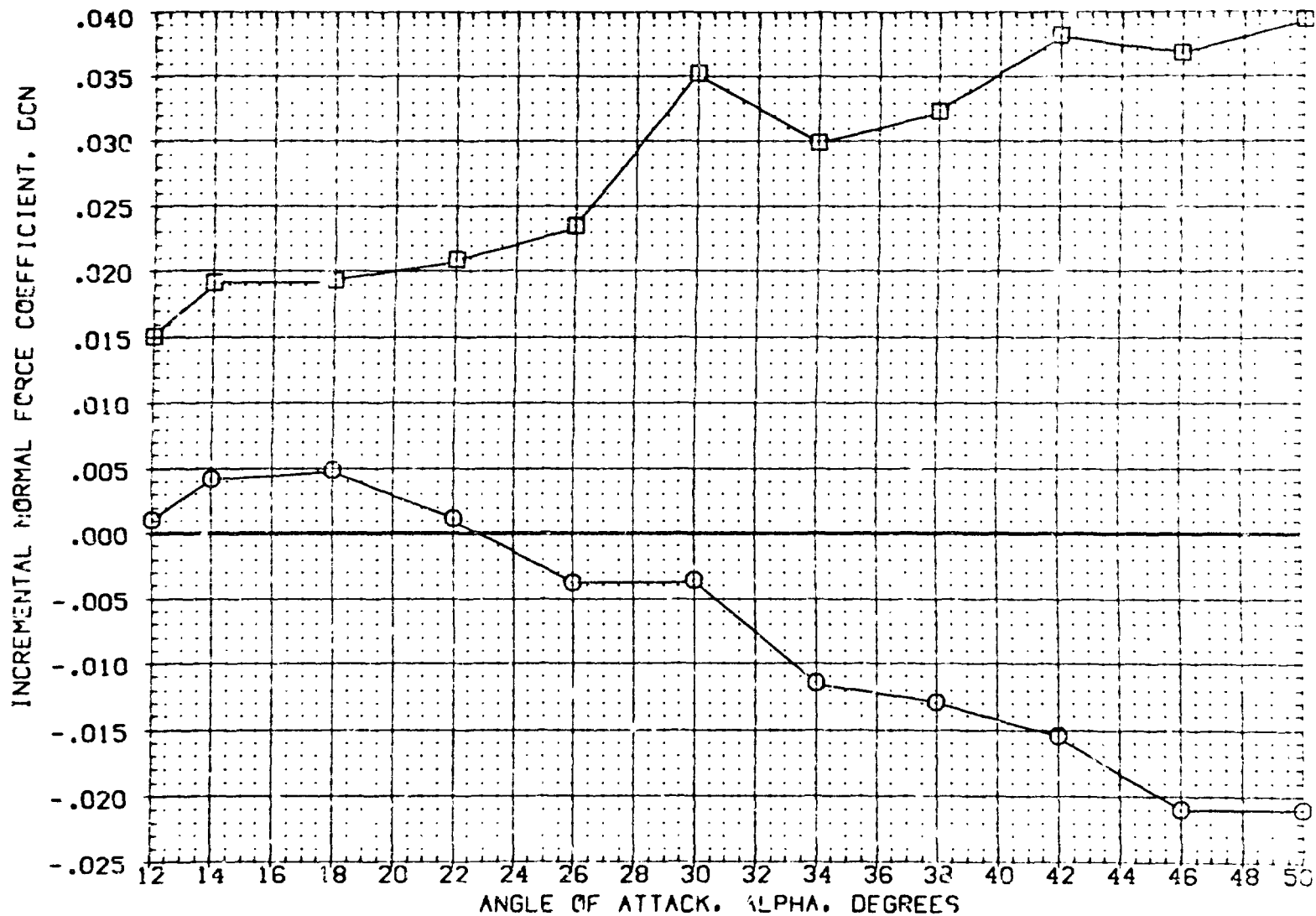


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(M)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDRM	RUDDER	REFERENCE INFORMATION
(136J10)	APES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000
(136J16)	APES3.5-168 DA23 B19 C7 E23 FS M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	LREF 474.0000 BREF 436.0000 XREF 1076.0000 YREF .0000 ZREF 400.0000 SCALE .0100

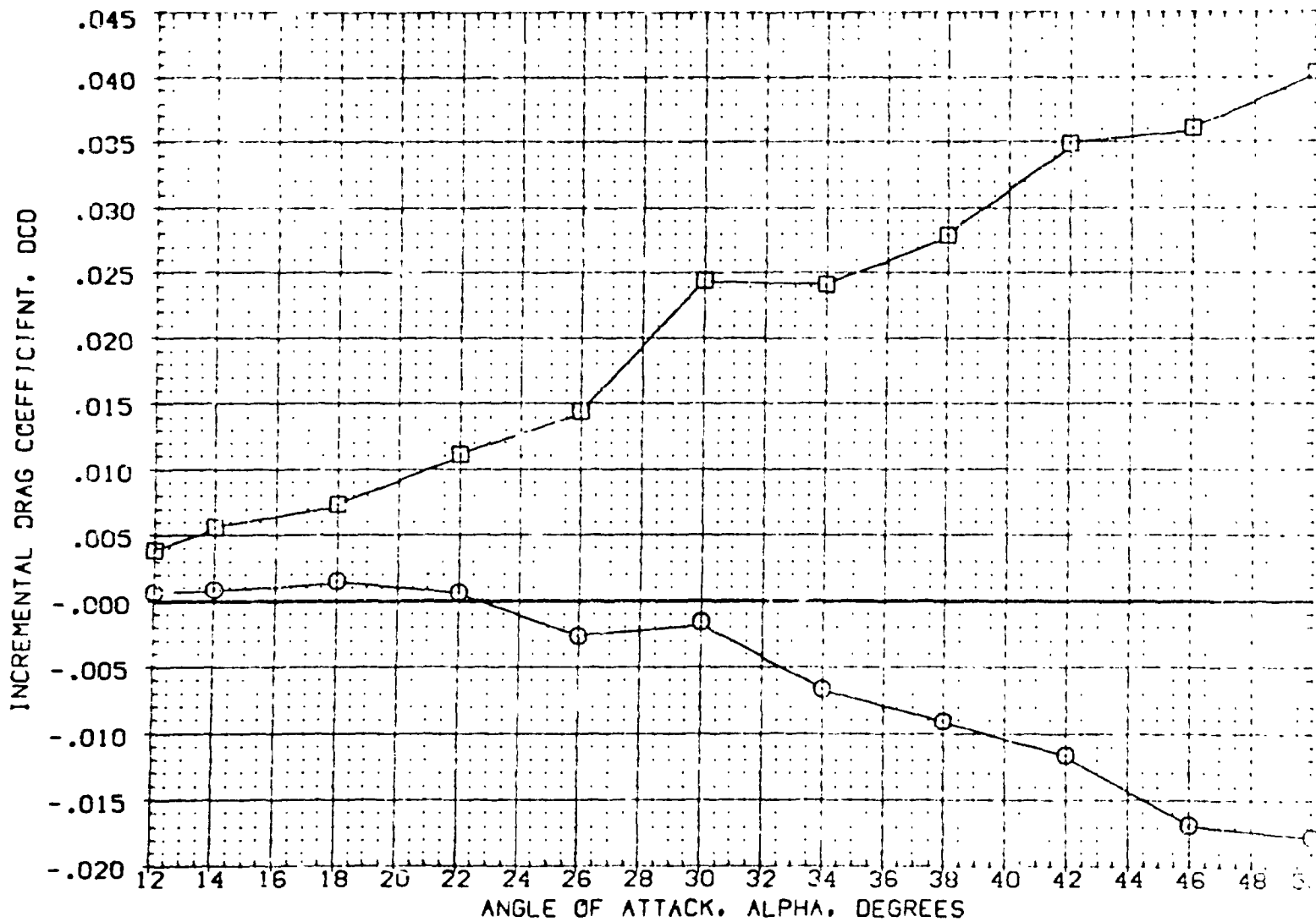


FIG. 3 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(186018)	○ AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.T. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE
(186016)	□ AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	

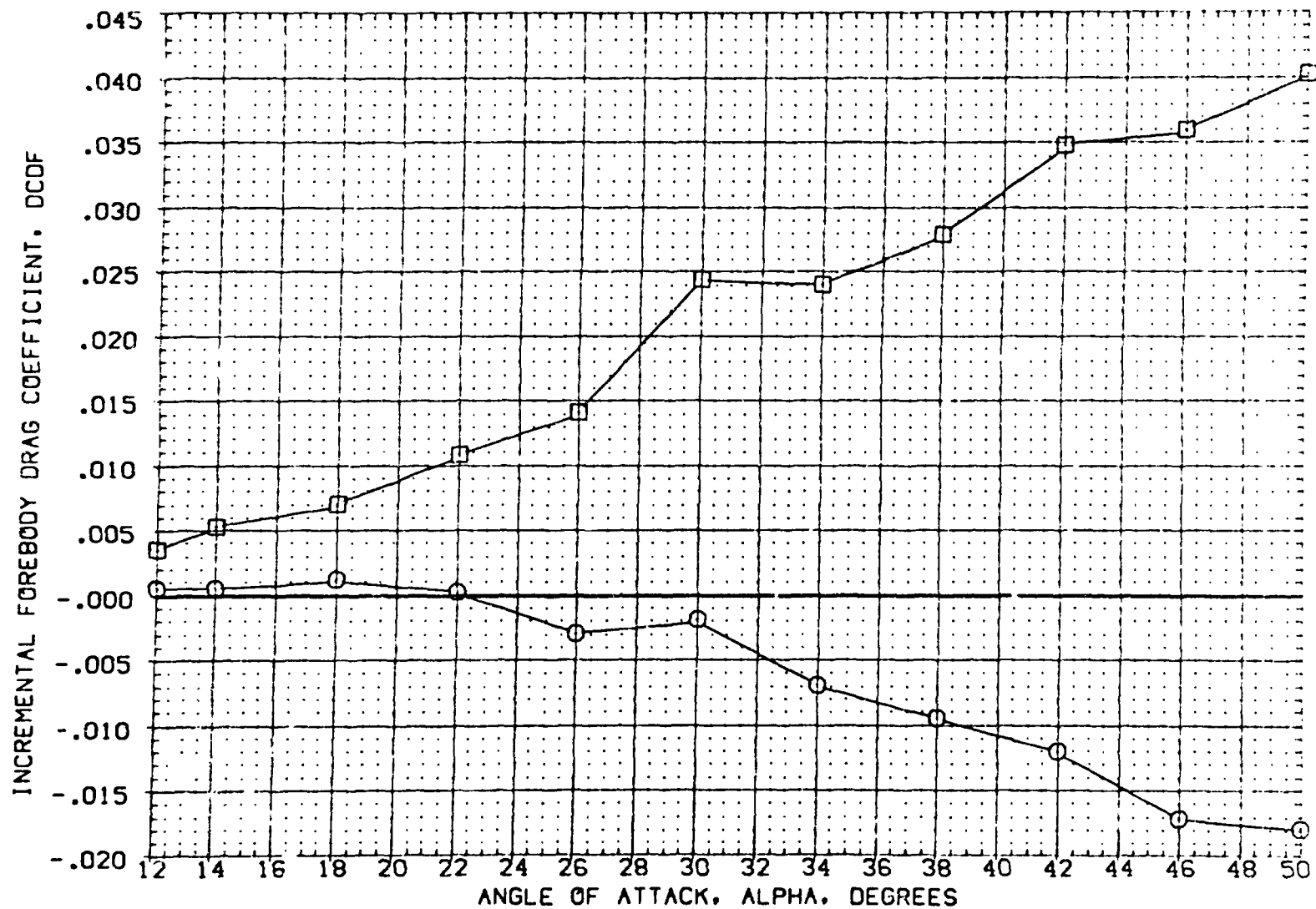


FIG. 8 BODY FLAP EFFECTS
 (A)MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOYBRK	RUDDER	REFERENCE INFORMATION
(186018)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	-14.250	55.000	.000	SREF 2690.0000
(186016)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-40.000	13.750	55.000	.000	LREF 474.8000 LBREF 936.6800 XMREF 1076.4800 YMREF .0000 ZMREF 400.0000 SCALE .0100

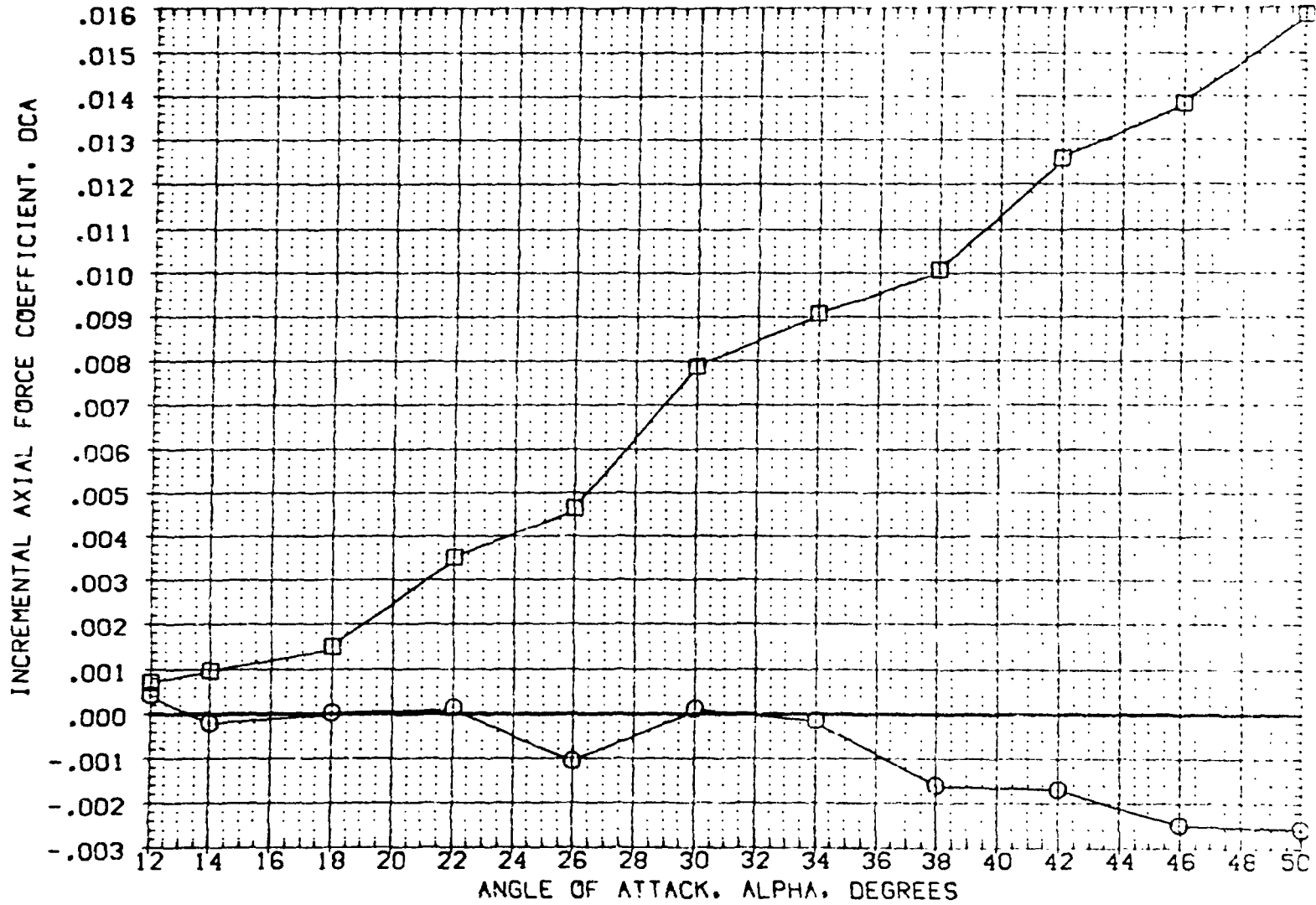


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86J18)	○ AMES3.5-168 DA23 B19 .7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.T.
(T86O16)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

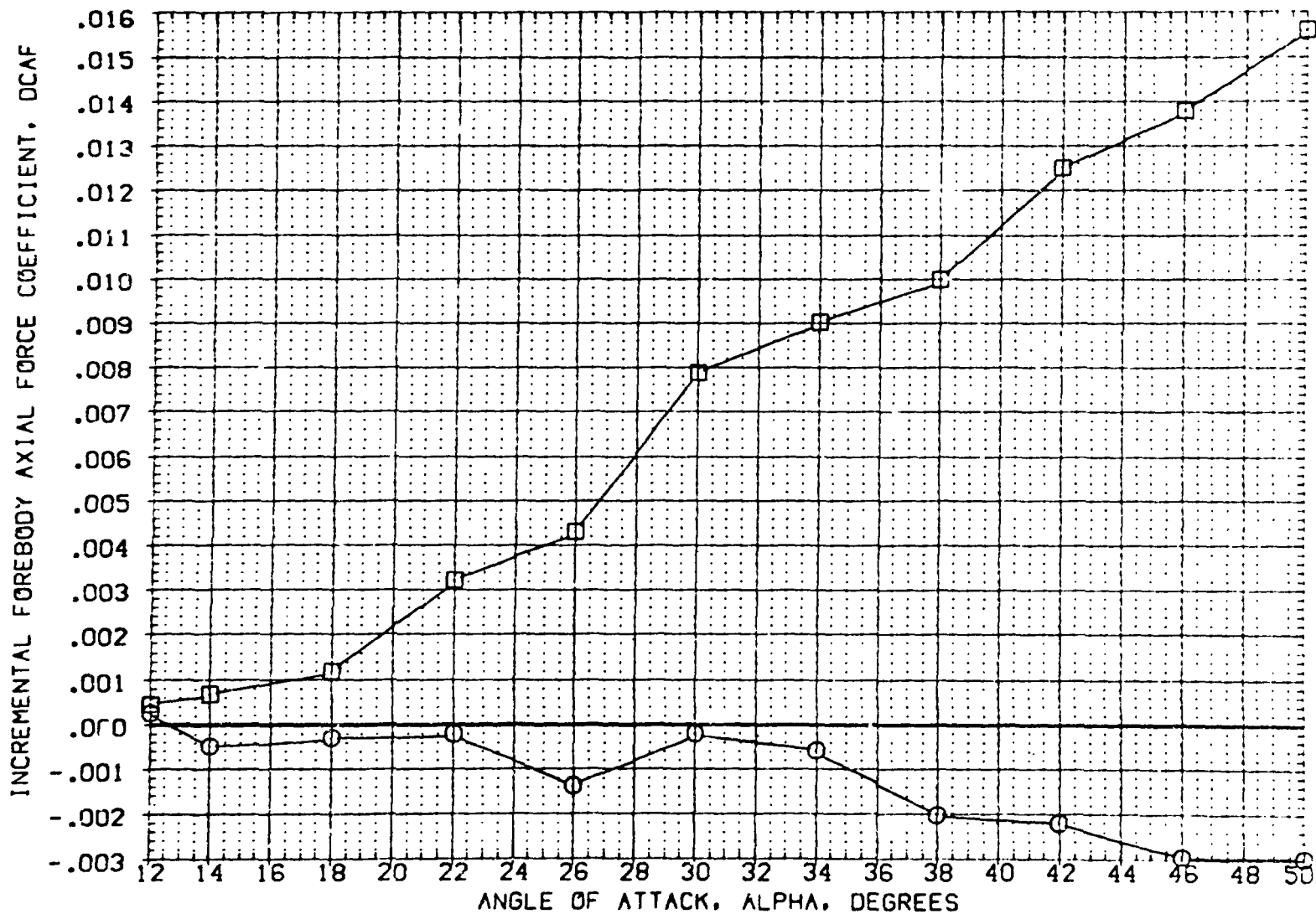


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRM	RUDDER	REFERENCE INFORMATION		
(T86018)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF	2690.0000	SCALE
(T86016)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	LREF	474.8000	SCALE
						BREF	936.6000	
						XMRP	1076.8000	
						YMRP	0.0000	
						Z1 P	400.0000	
						SCALE	.0100	SCALE

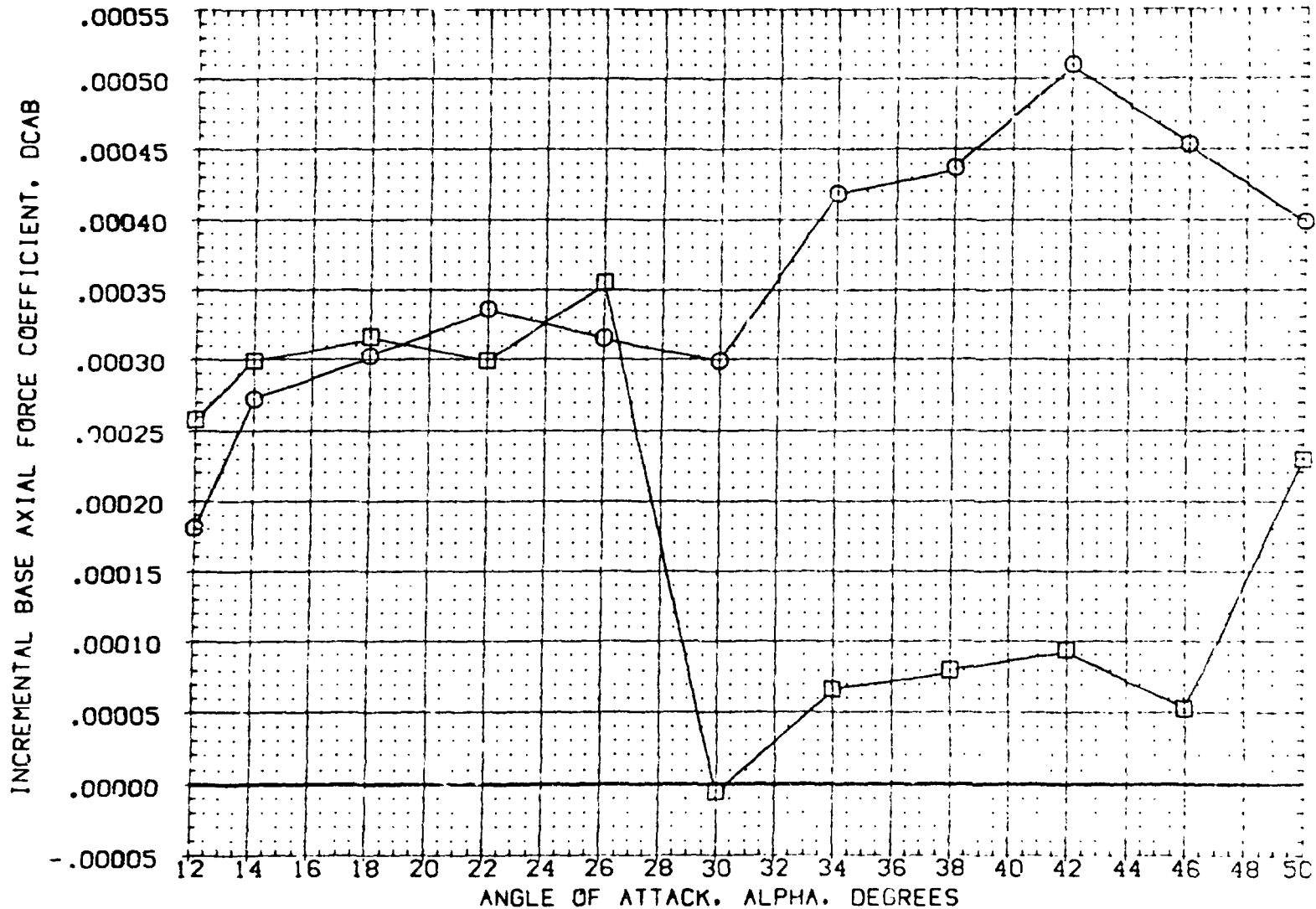


FIG. 8 BODY FLAP EFFECTS
(A) MACH = 7.20

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(T86U18)	○ AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.1800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(T86O16)	□ AMES3.5-168 DA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	

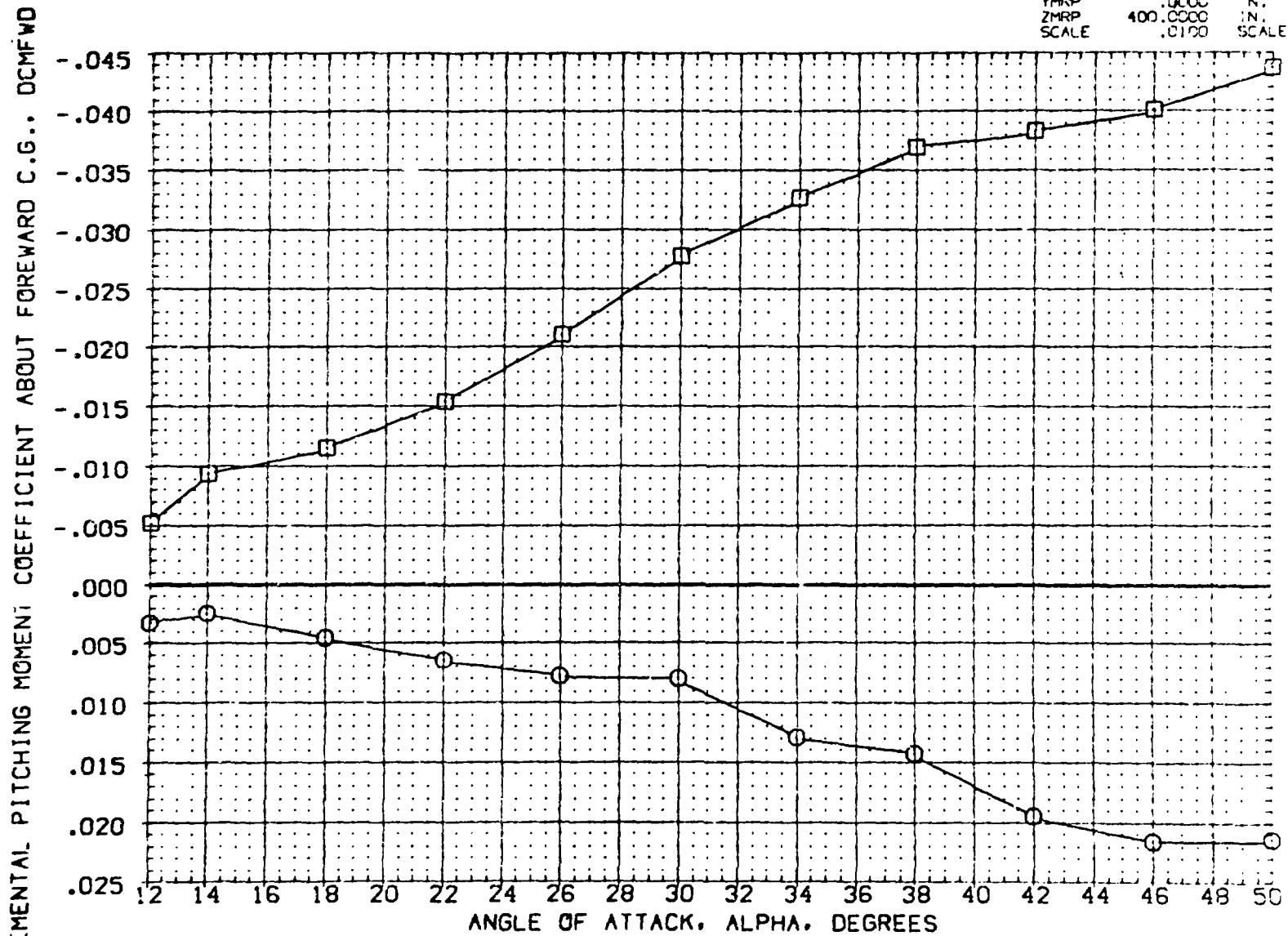


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(TB6J18)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	-14.250	55.000	.000	SREF 2690.0000 SC.F.F.
(TB6016)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-40.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 935.6600 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

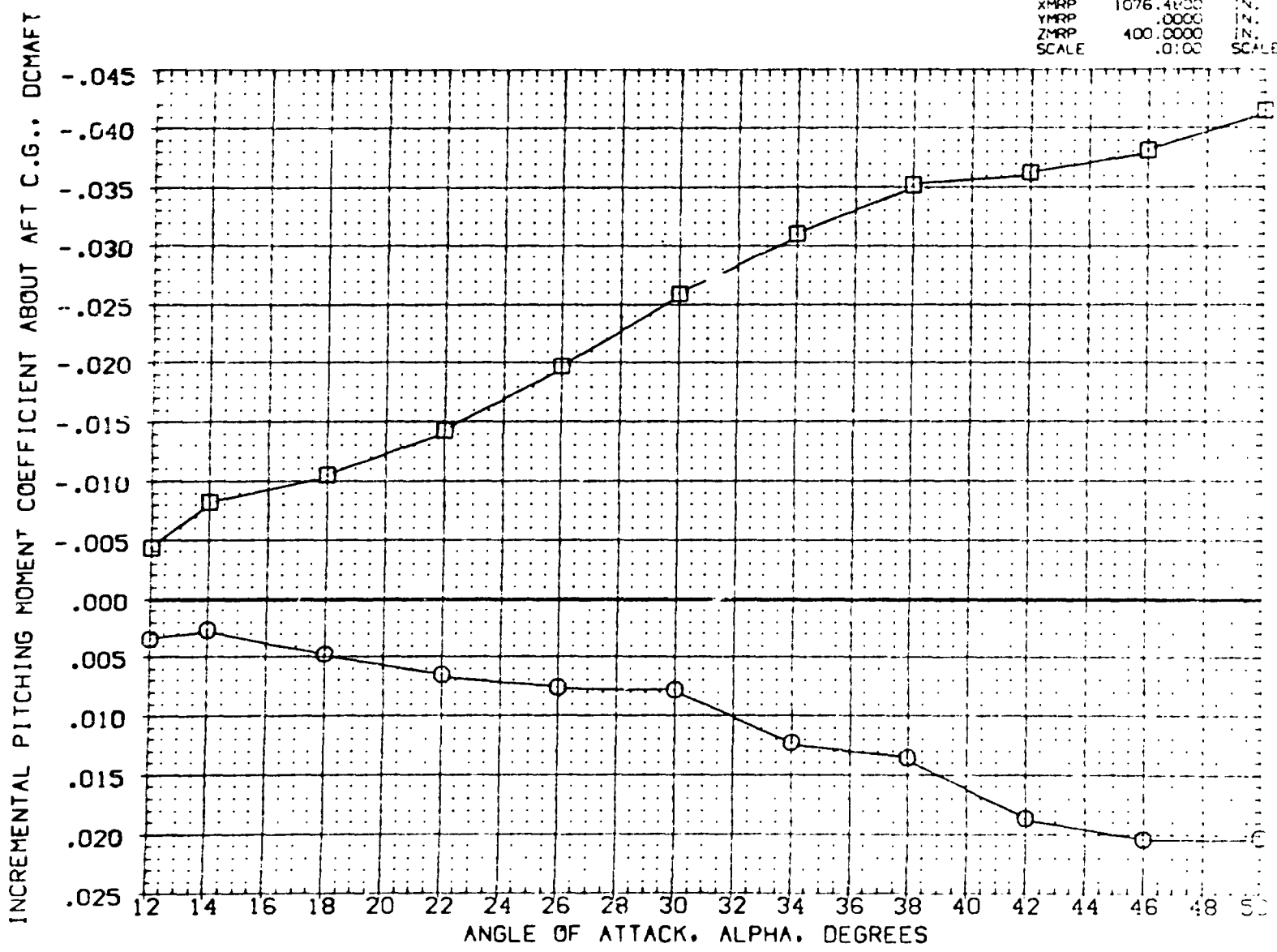


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.
(LB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

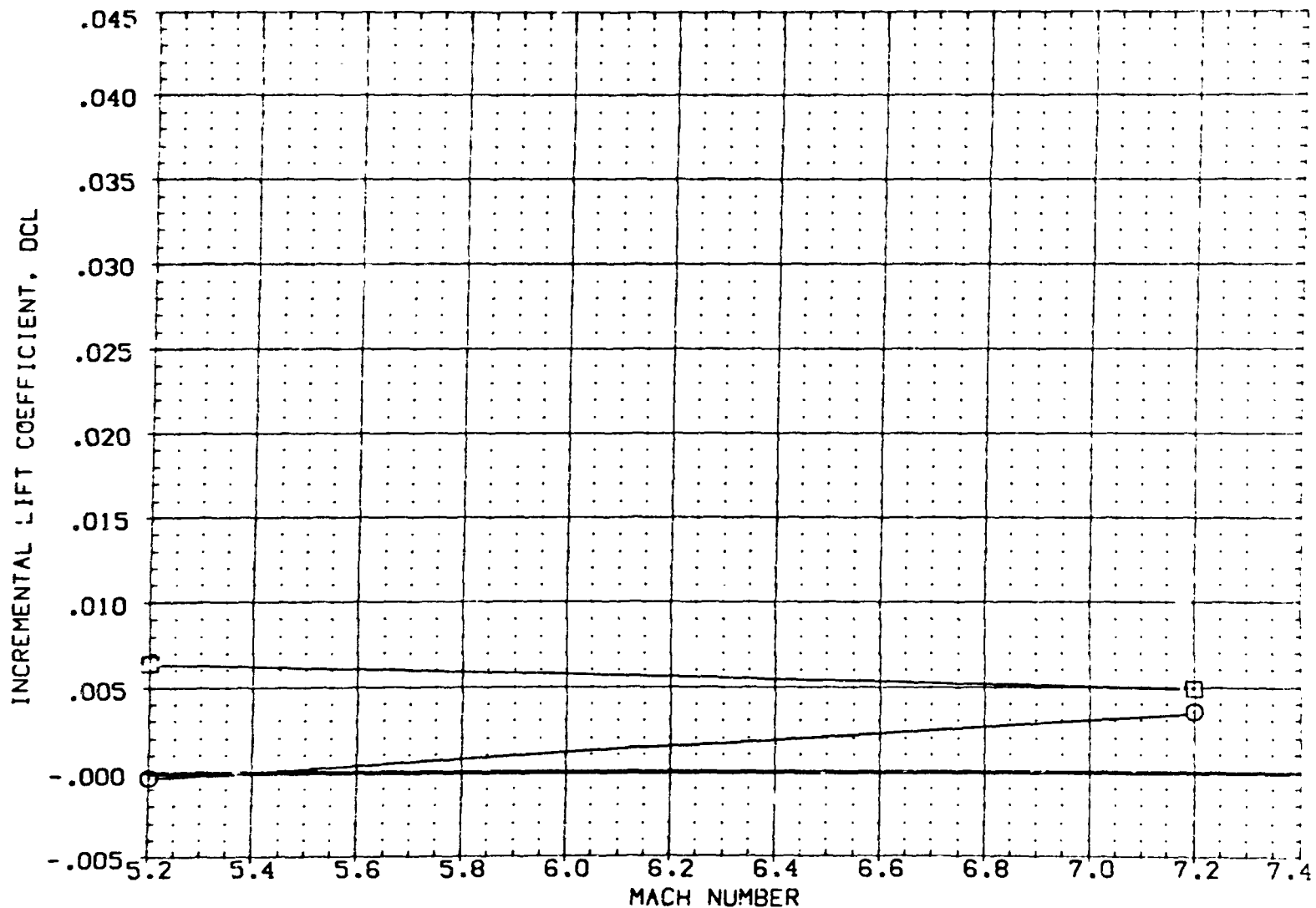


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 2.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOILER	RUDDER	REFERENCE INFORMATION
(J86012)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(J86011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

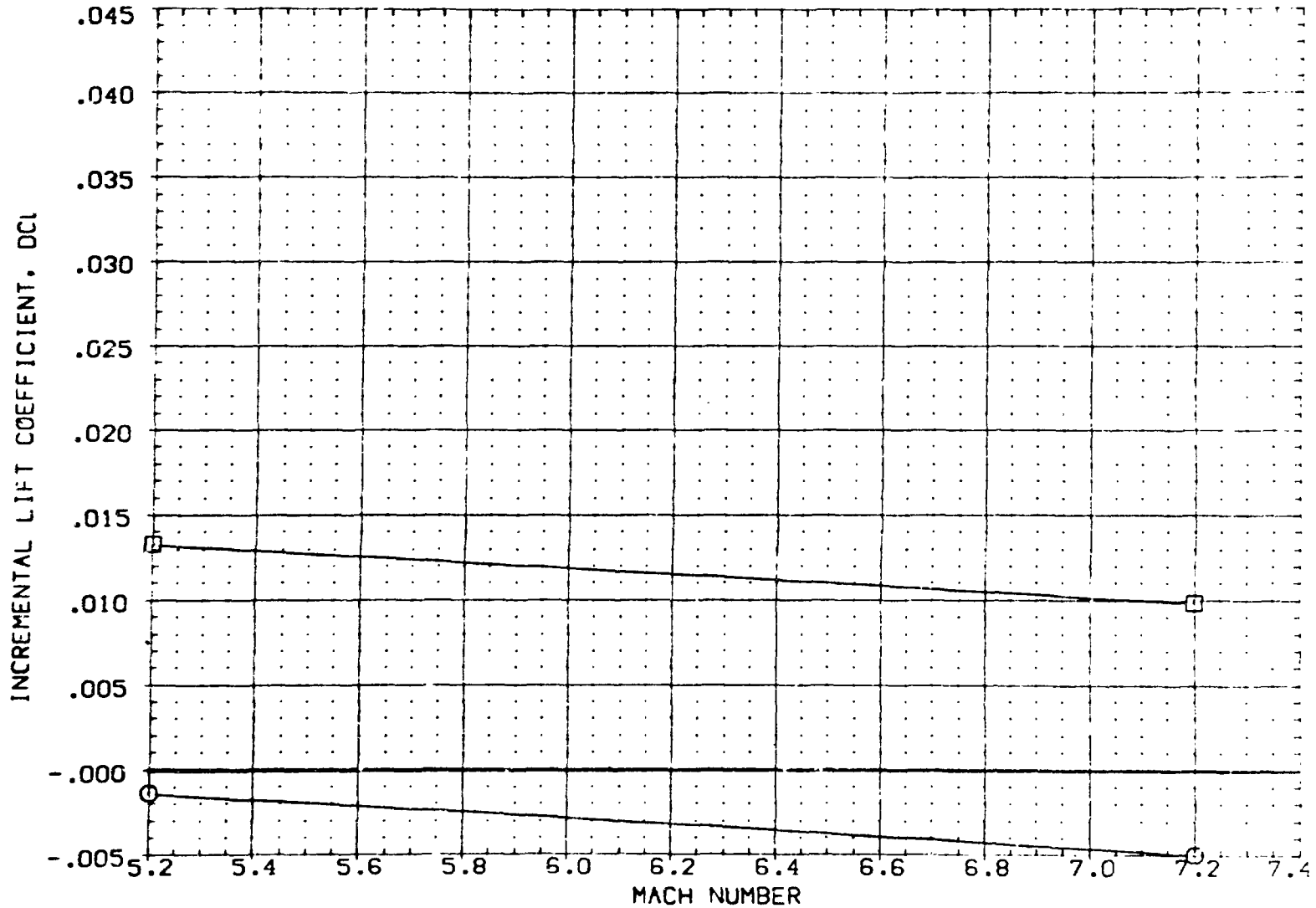


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	

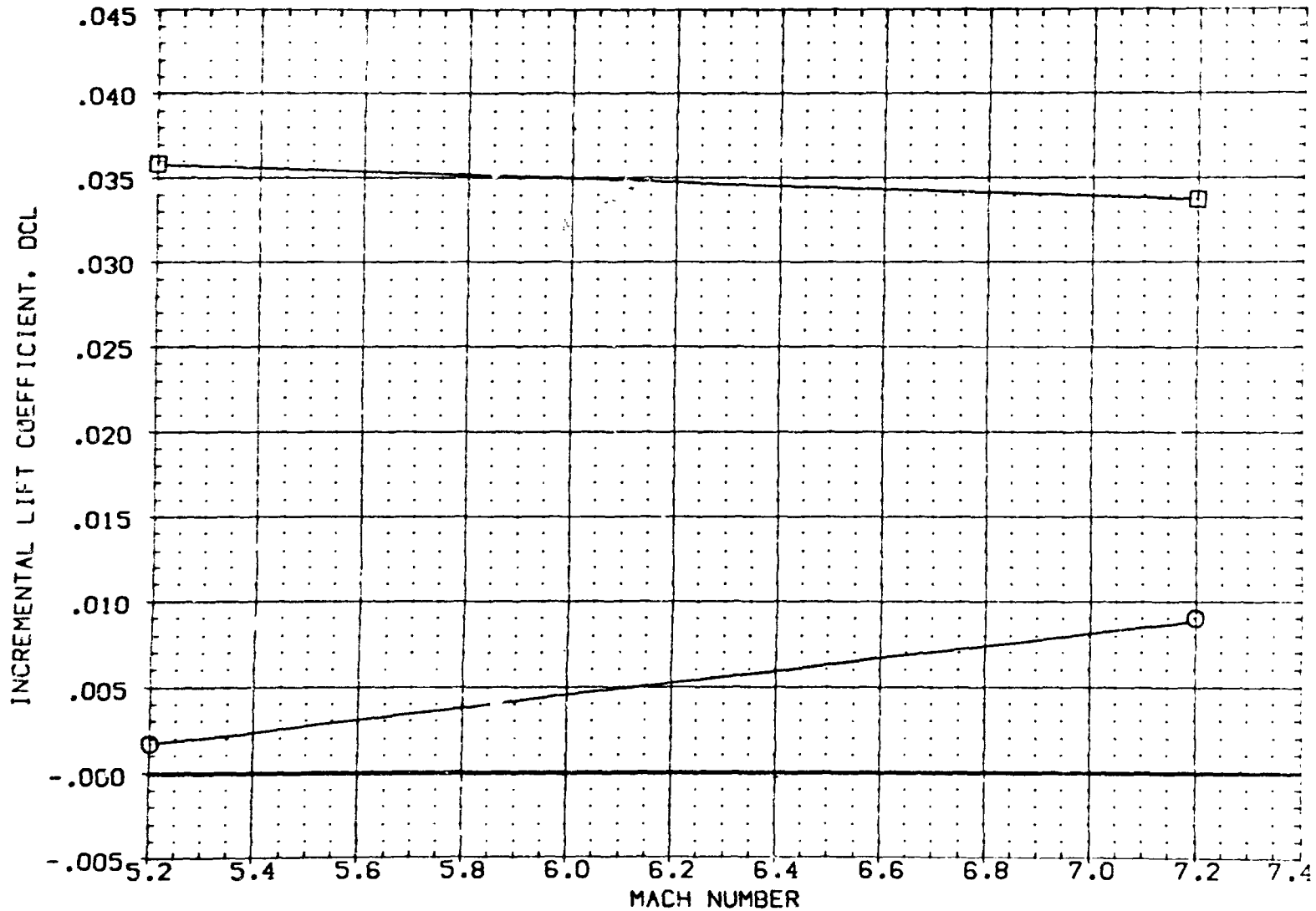


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT
(UB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRF 1076.4800 IN.
						YMRF .0000 IN.
						ZMRF 400.0000 IN.
						SCALE .0100 SCALE

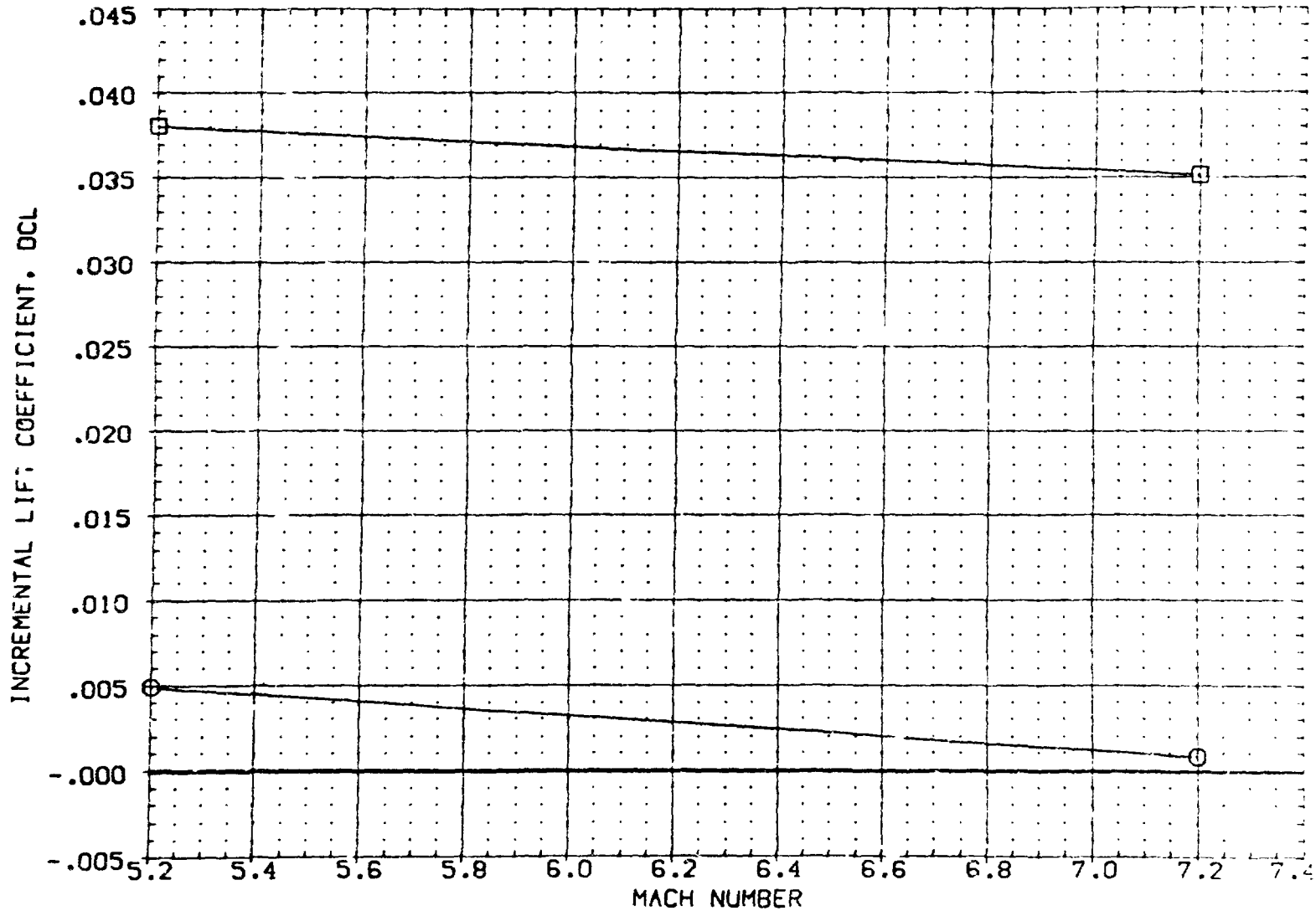


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

1355 CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L06012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L06011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

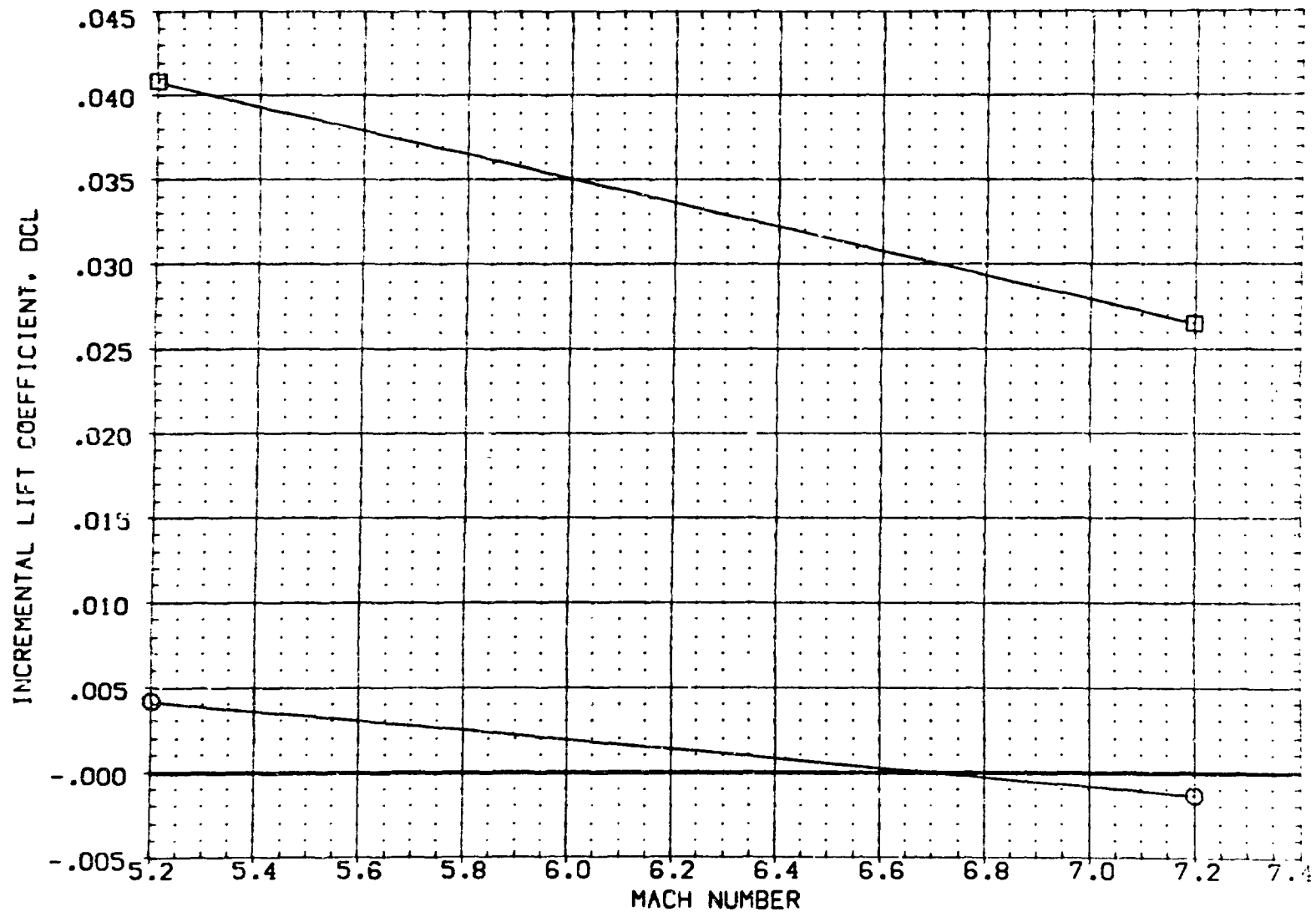


FIG. 9 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(E) ALPHA = 50.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DEF	SPOBRK	RJODEF	REFERENCE INFORMATION
(UB6012)	AMES3,5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SRL 2690.0000 SCAL
(UB6011)	AMES3,5-168 CA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	L REL 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

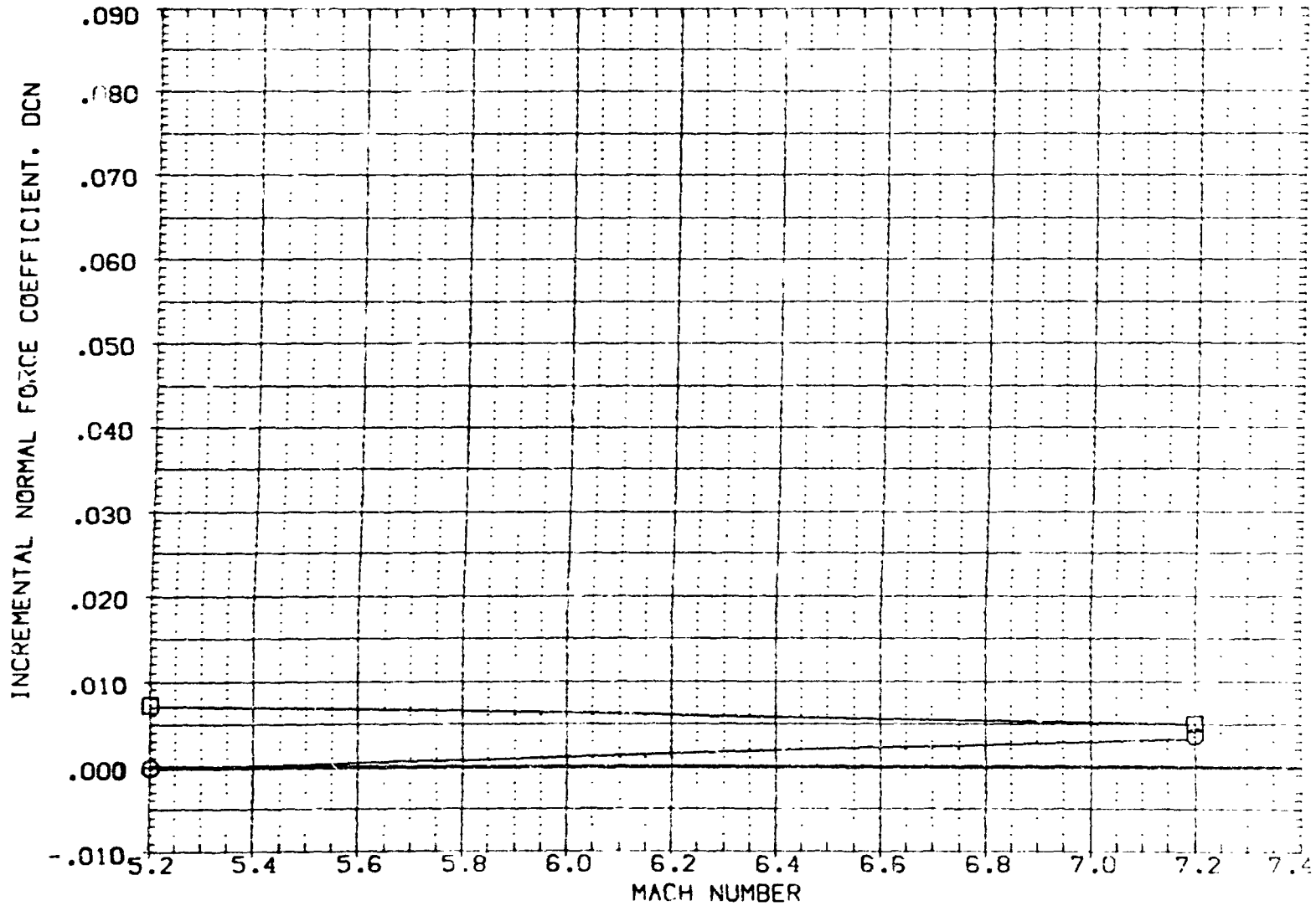


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMESJ.F-168 OA23 B19 C7 E23 F5 M1 N8 R5 V7 W107	.002	-14.250	55.000	.000	SREF 2690.0000 SC.FT.
(UB6011)	AMESJ.S-168 OA23 B19 C7 E23 F5 M1 N8 R5 V7 W107	.000	13.750	55.000	.000	LPEF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4600 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

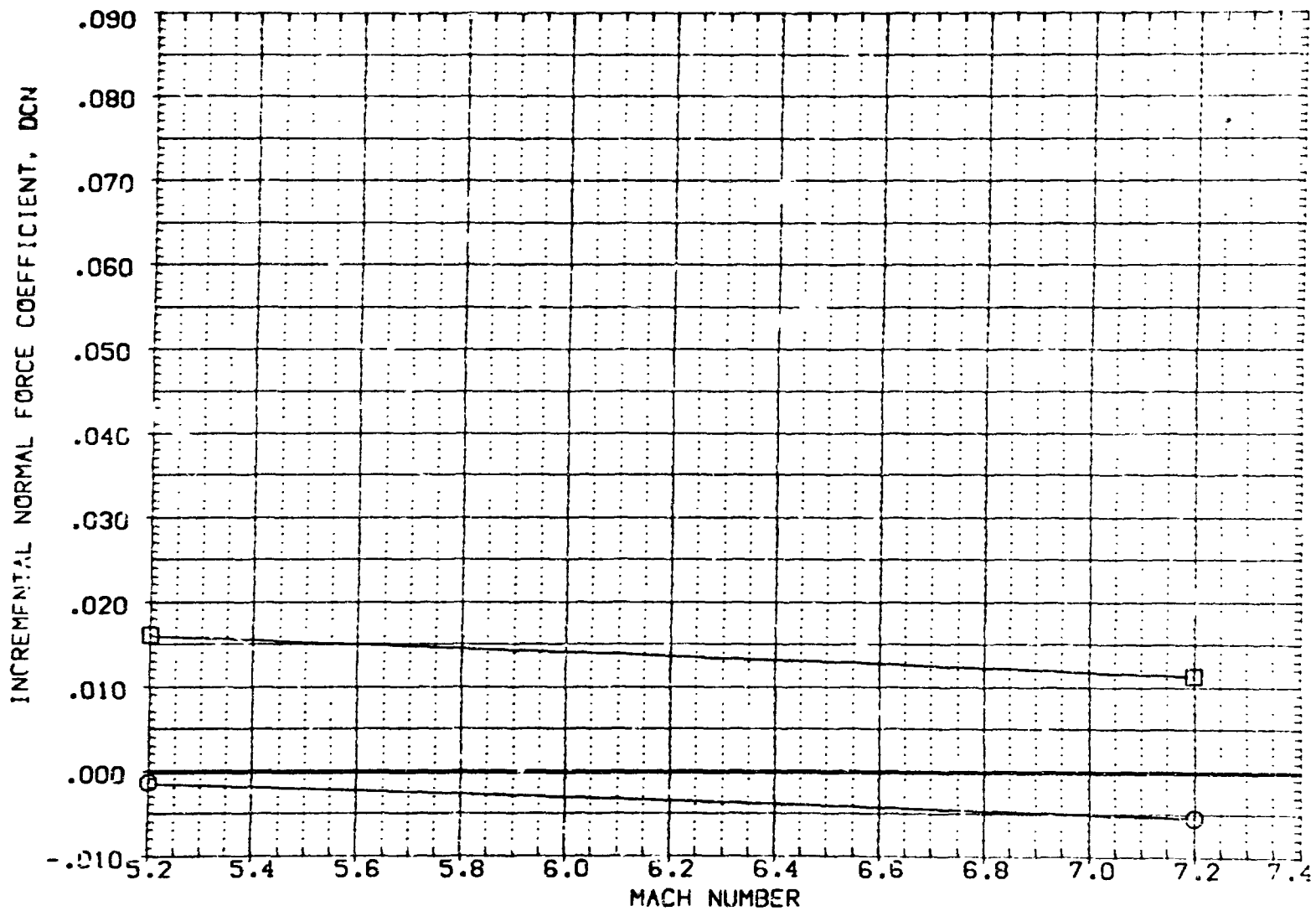


FIG. 8 BODY FLAP EFFECTS
(B)ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(J86012)	APES3.5-168 DA23 B19 C7 E23 FS H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000
(J86011)	APES3.5-168 DA23 B19 C7 E23 FS H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000
						BREF 936.6800
						XMRP 1076.4800
						YMRP .0000
						ZMRP 400.0000
						SCALE .0100

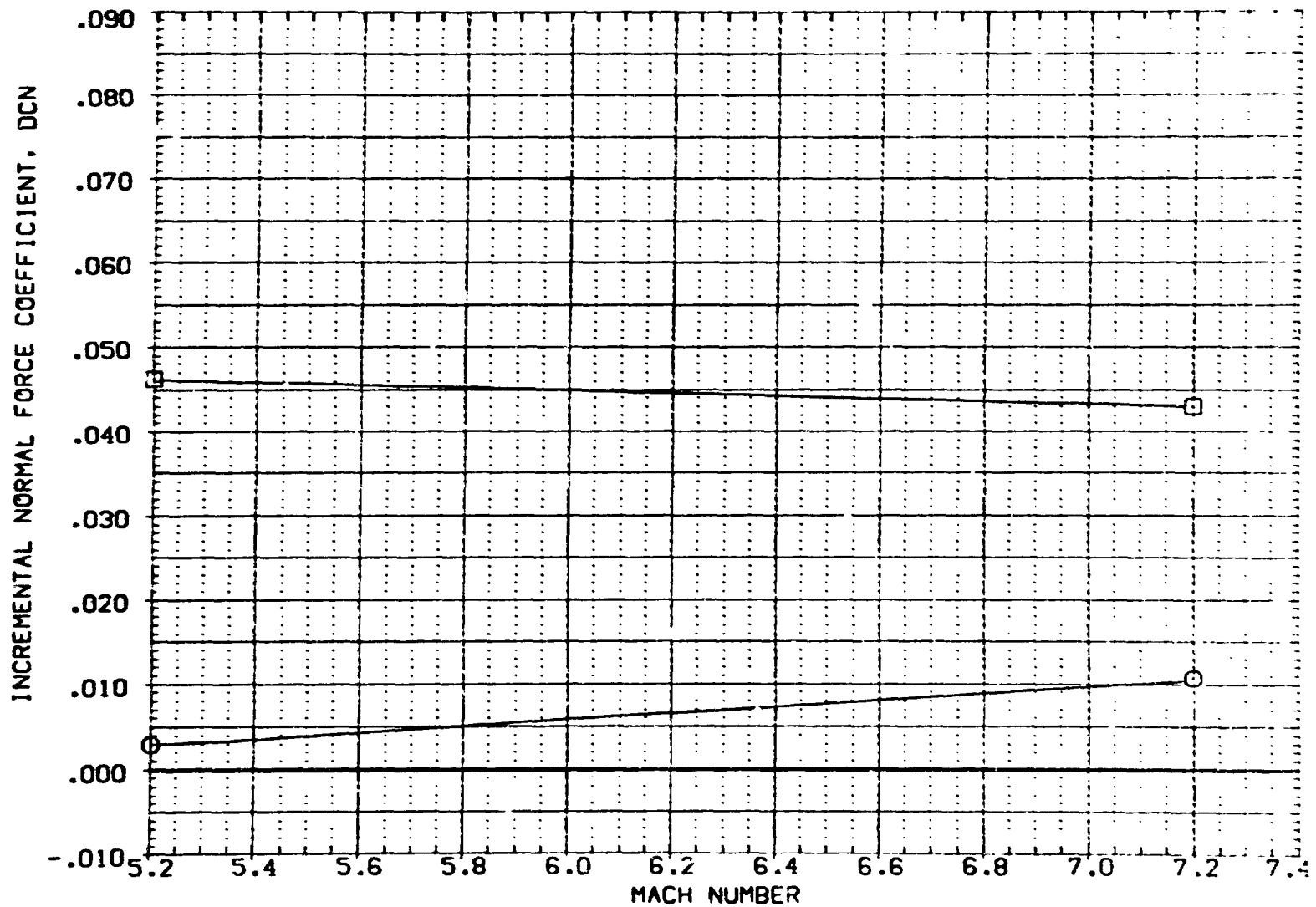


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB5012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(UB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

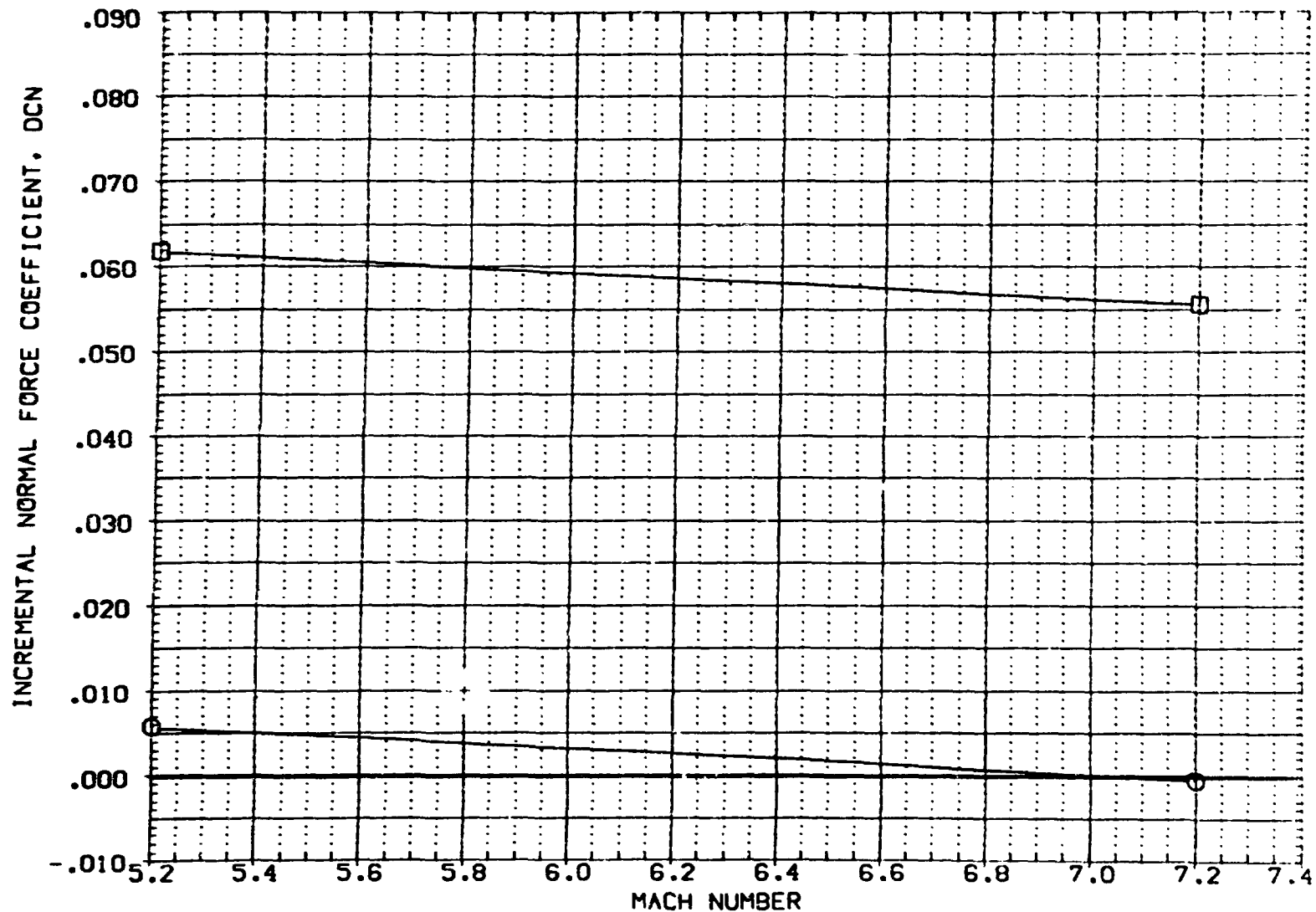


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6C11)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.6000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

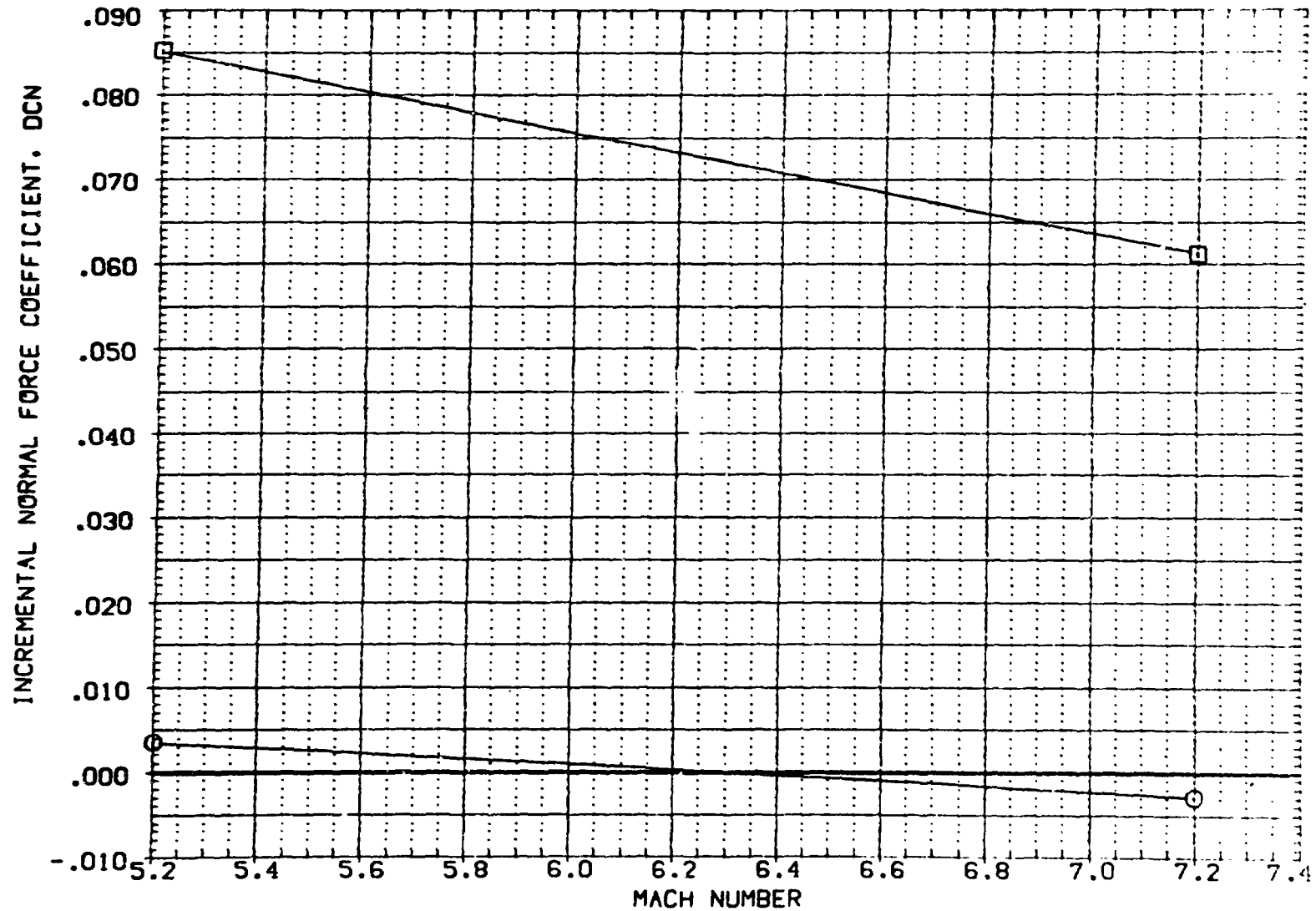


FIG. 8 BODY FLAP EFFECTS
 (E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	APES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	APES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

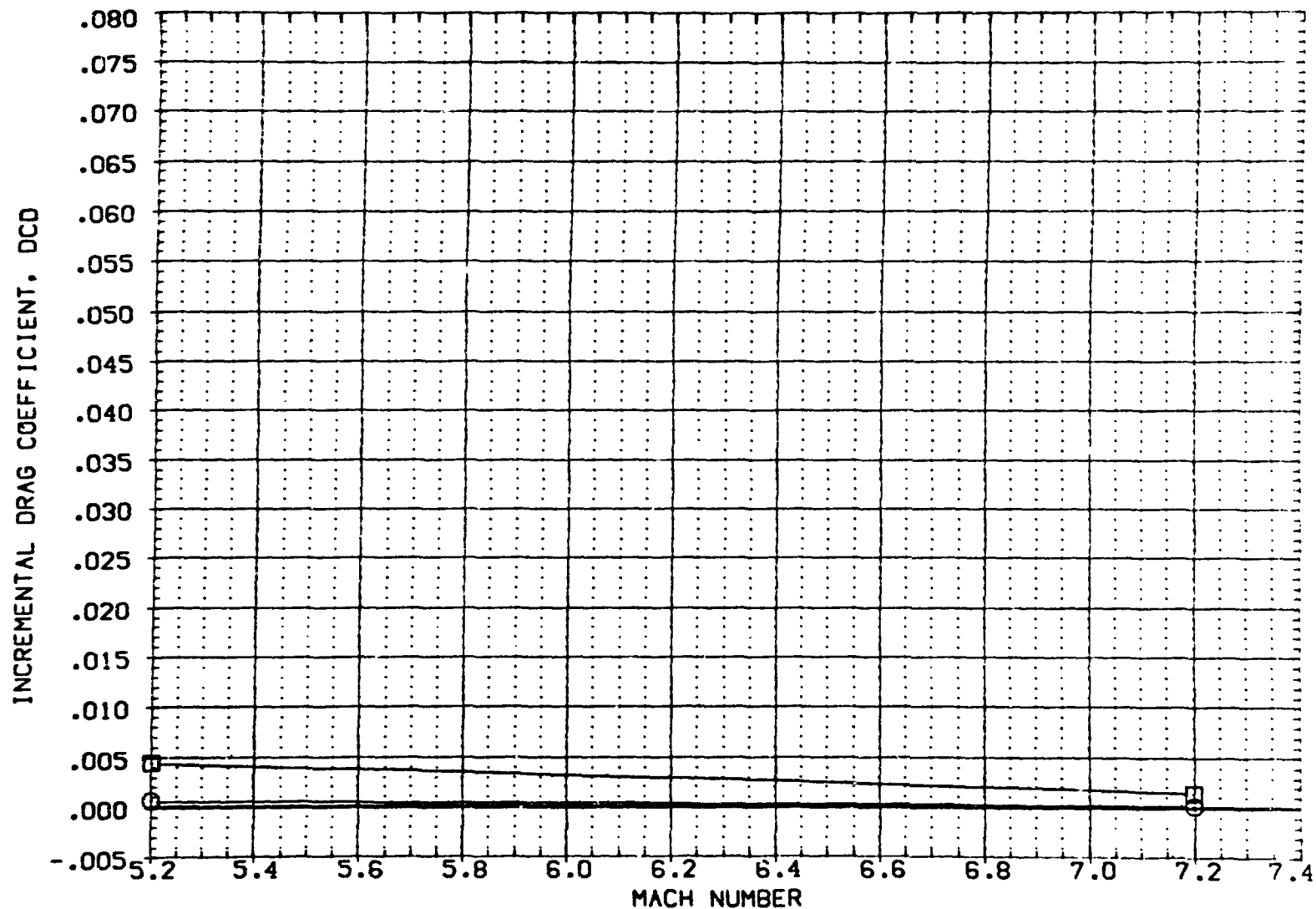


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A) ALPHA = 12.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

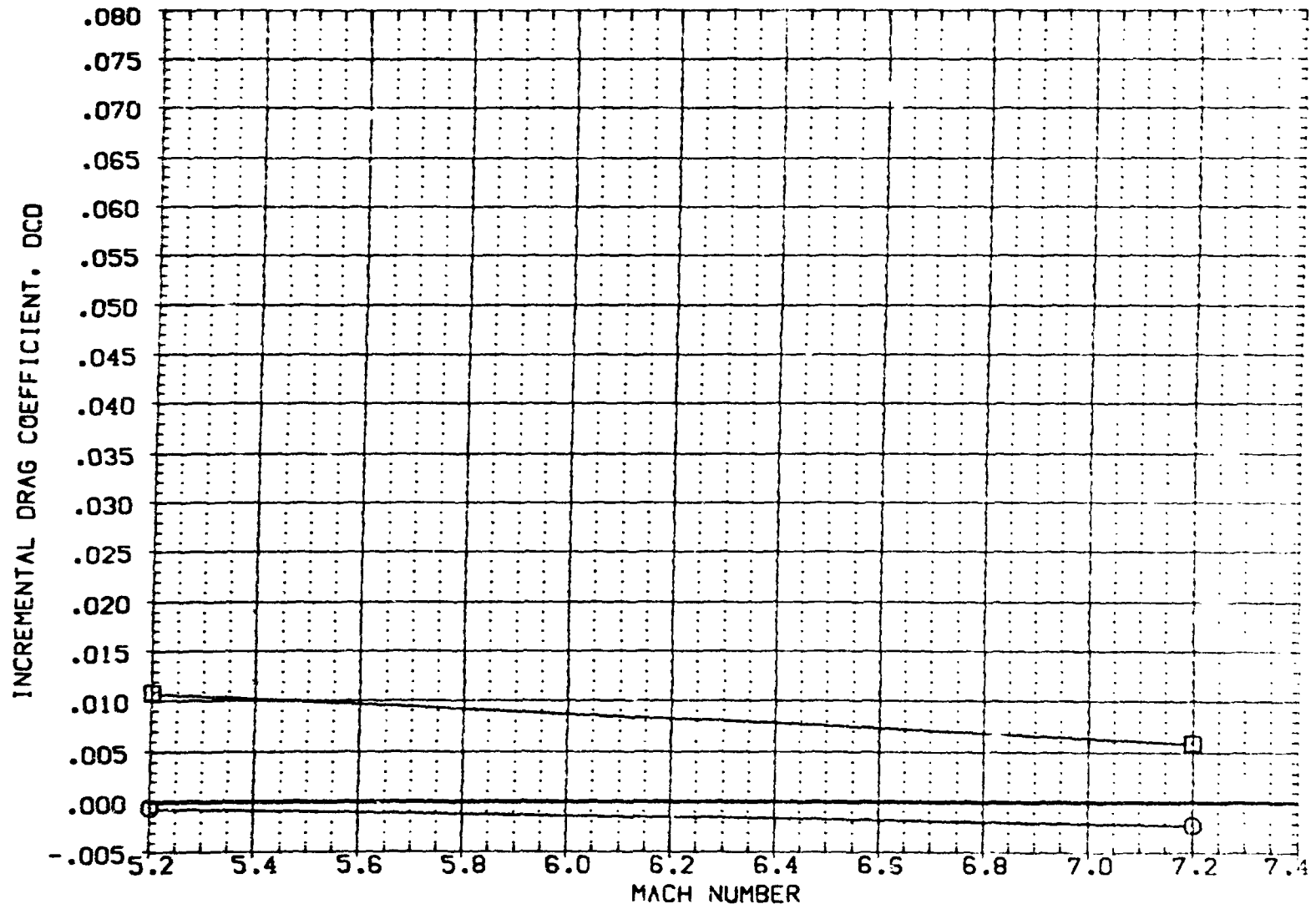


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86012)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(U86011)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

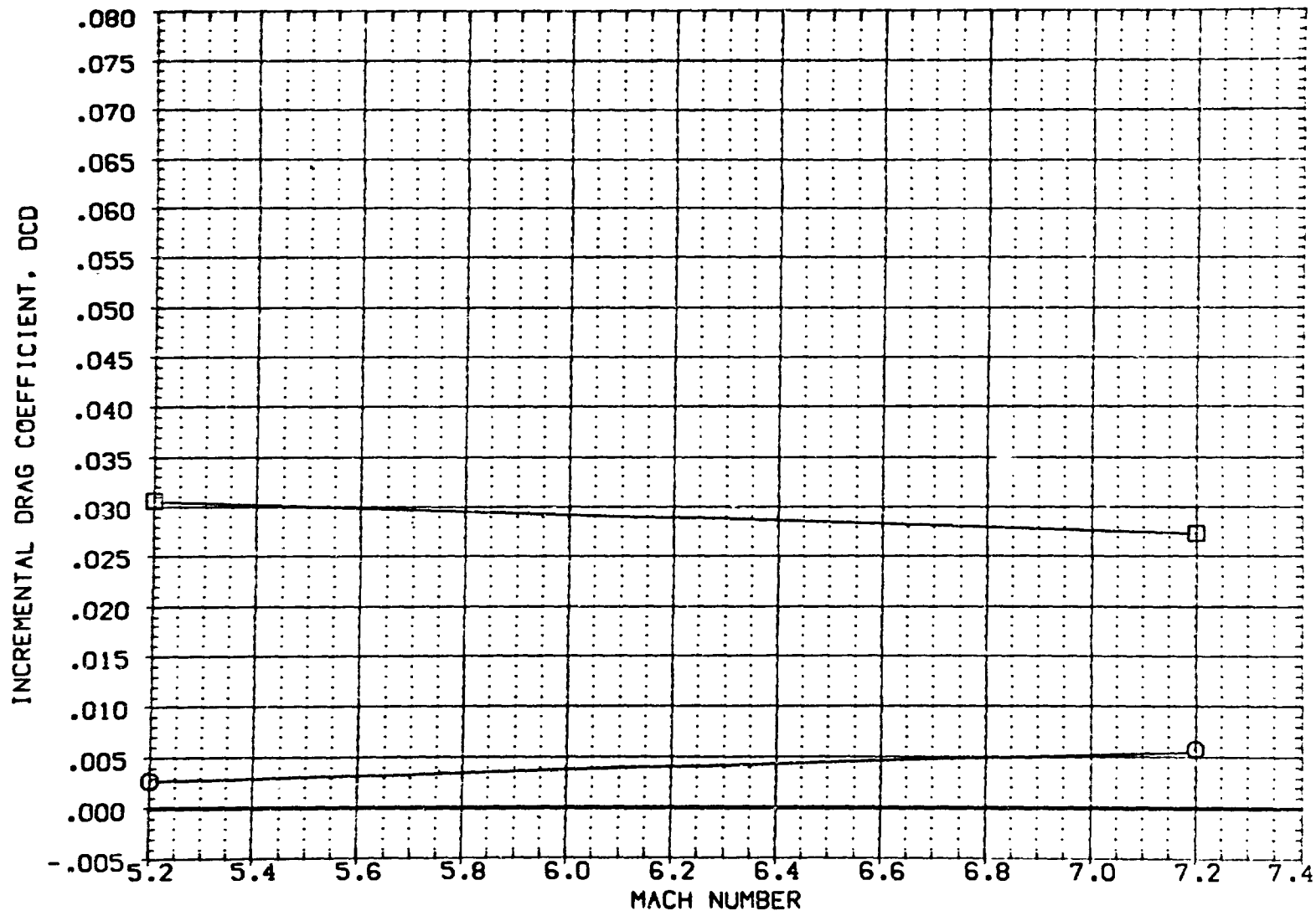


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86011)	□ AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

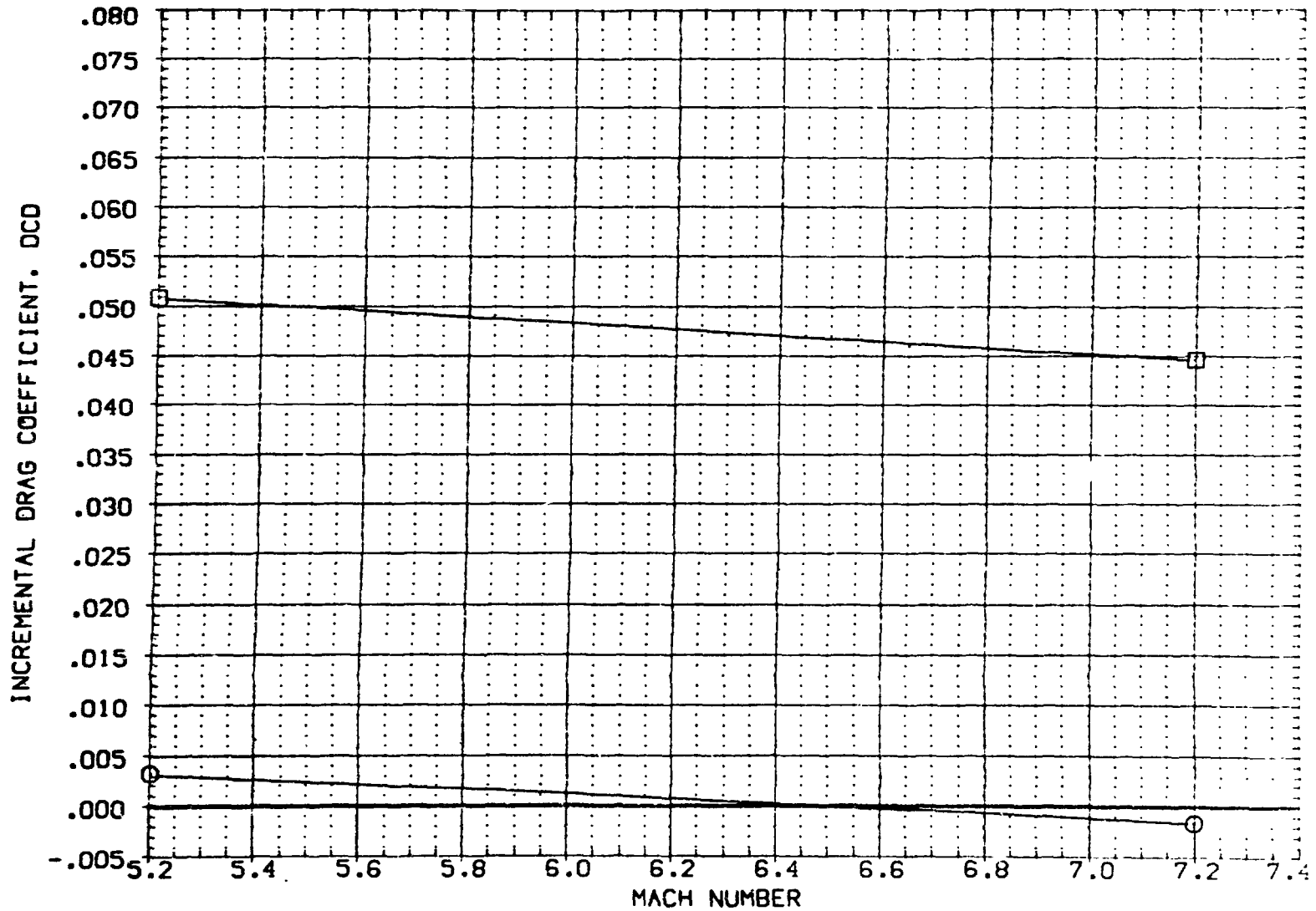


FIG. 8 BODY FLAP EFFECTS
(O) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	

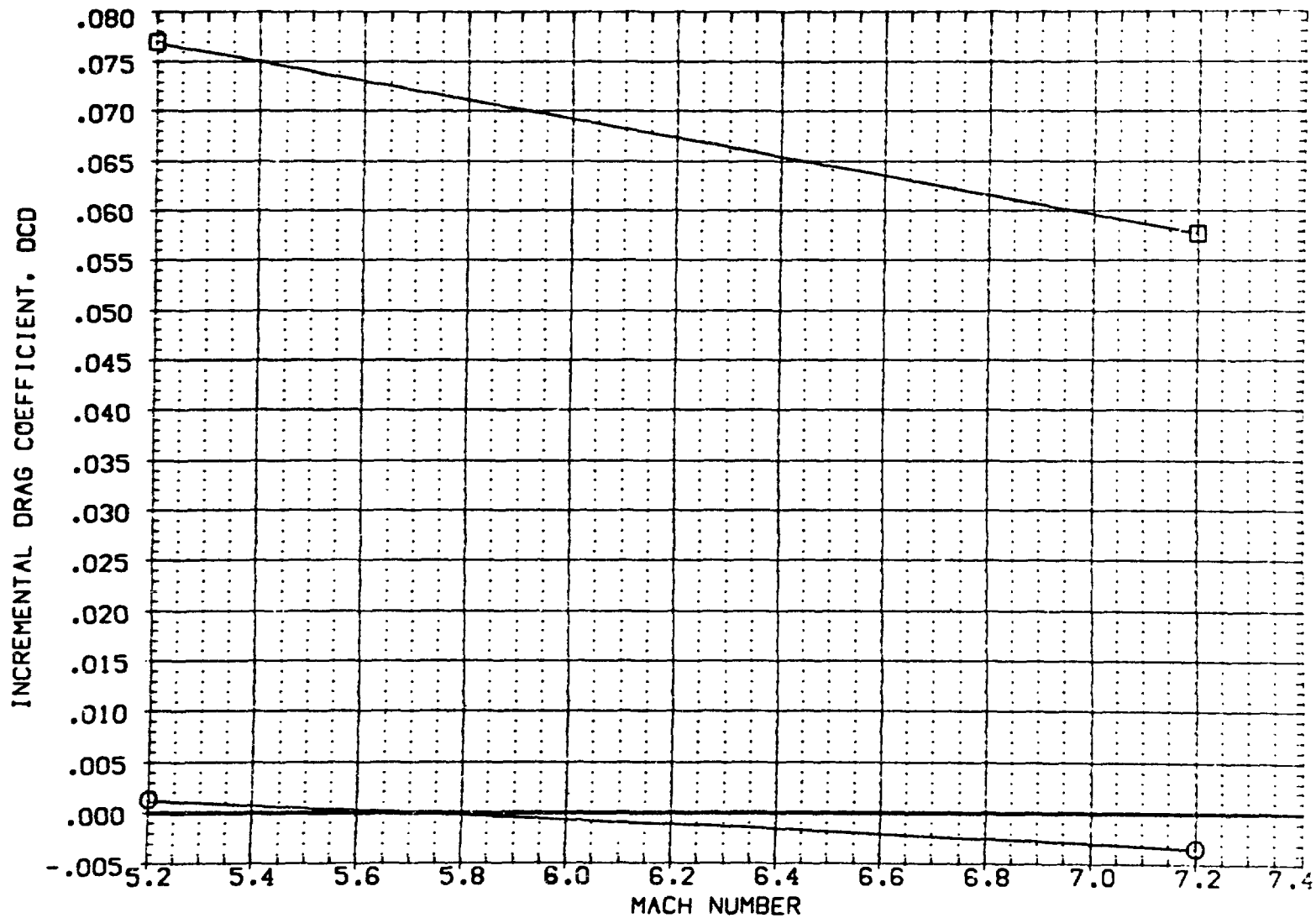


FIG. 8 BODY FLAP EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	S ^{POBRK}	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

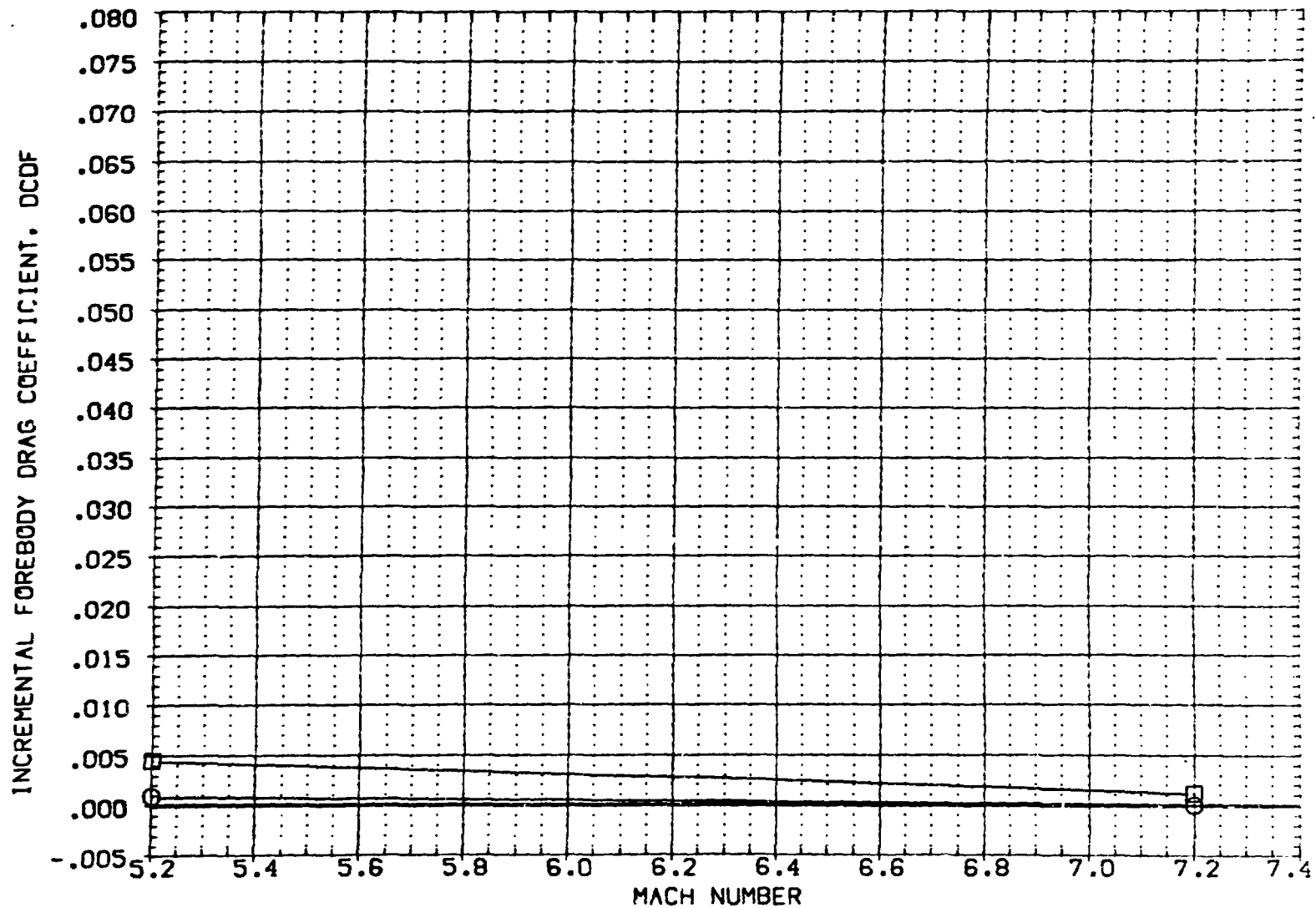


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRM	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

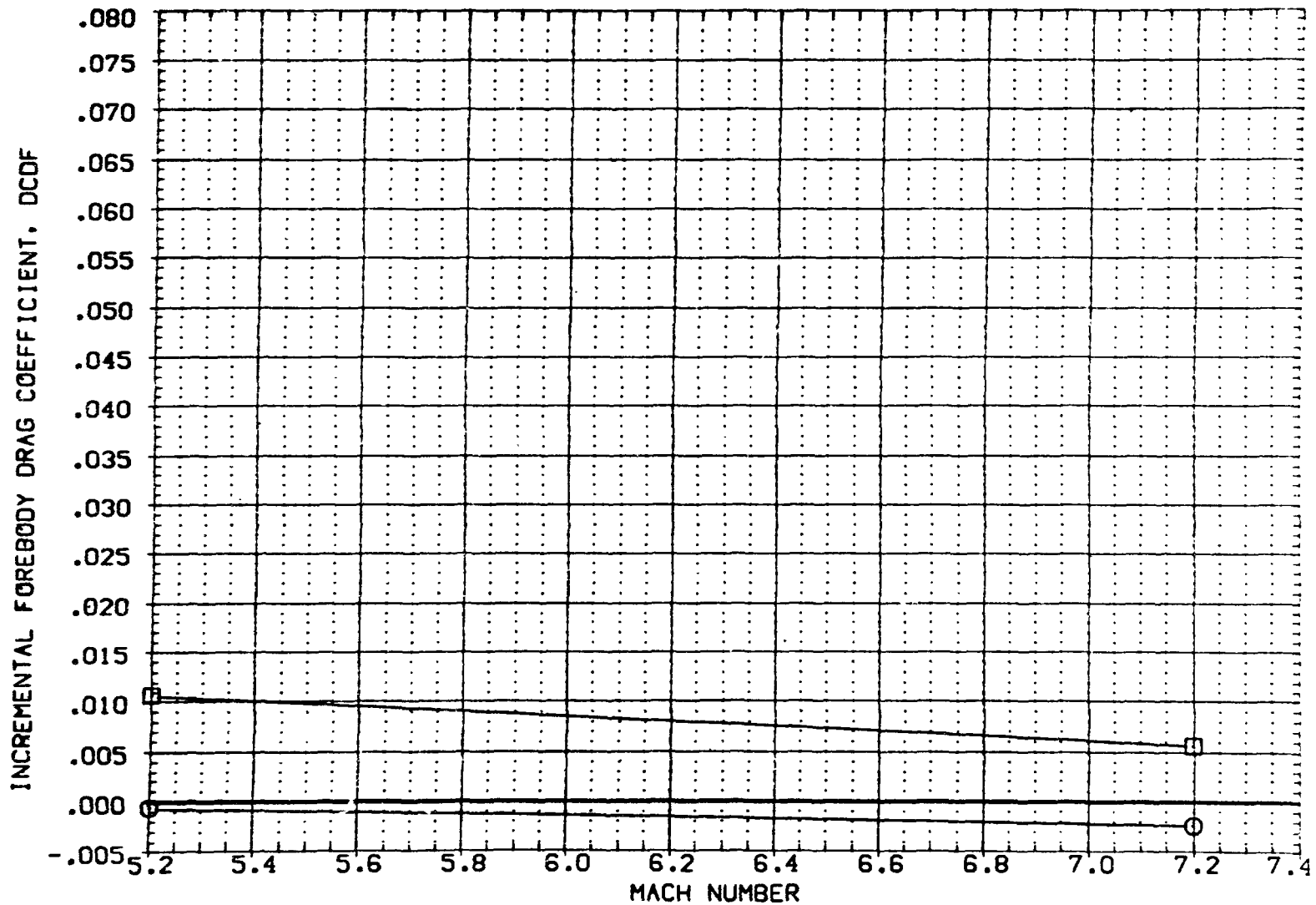


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 W107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

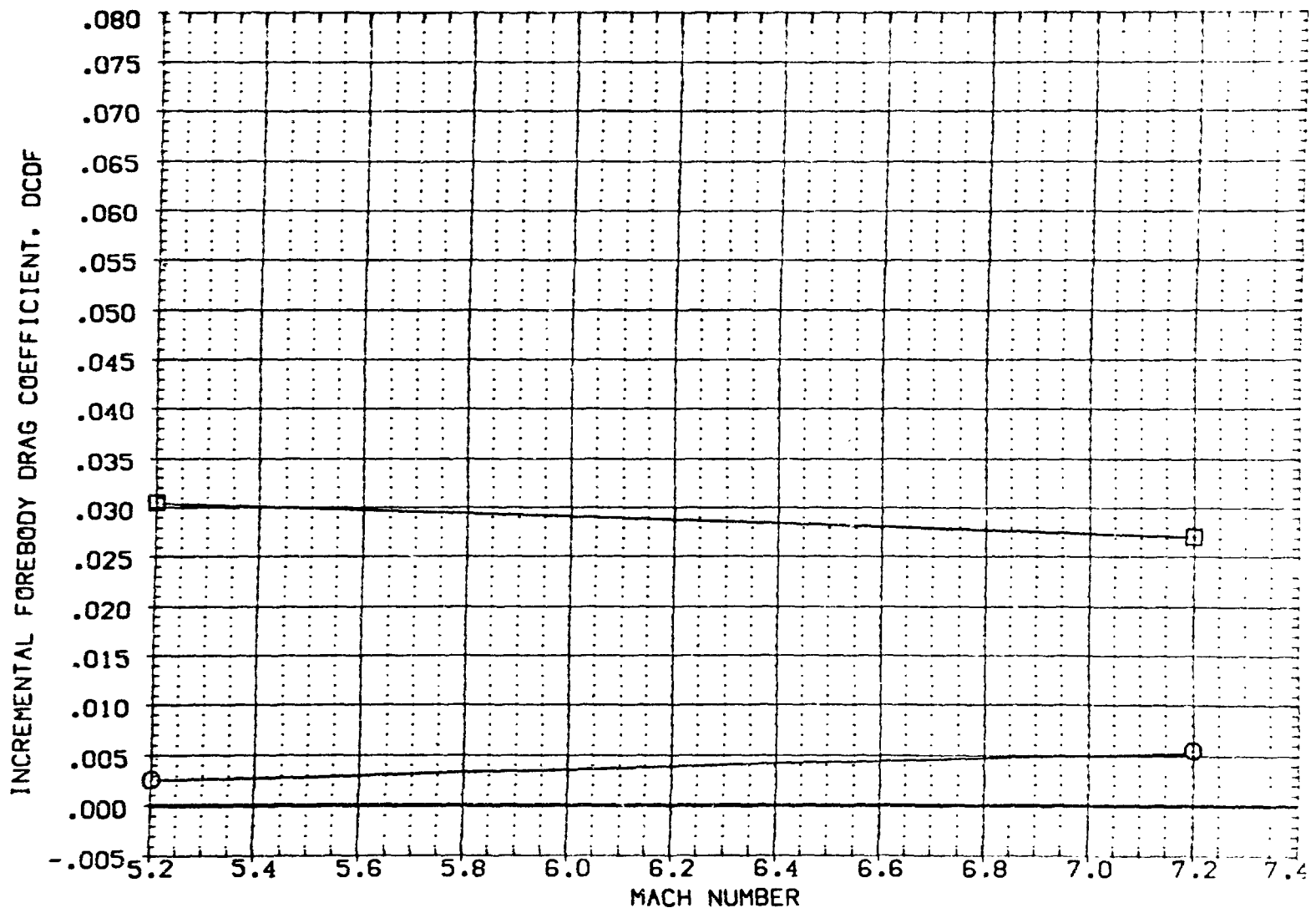


FIG. 8 BODY FLAP EFFECTS
 139B CONFIGURATION (0.010-SCALE)
 (C) ALPHA = 30.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 DA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6011)	AMES3.5-168 DA23 819 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

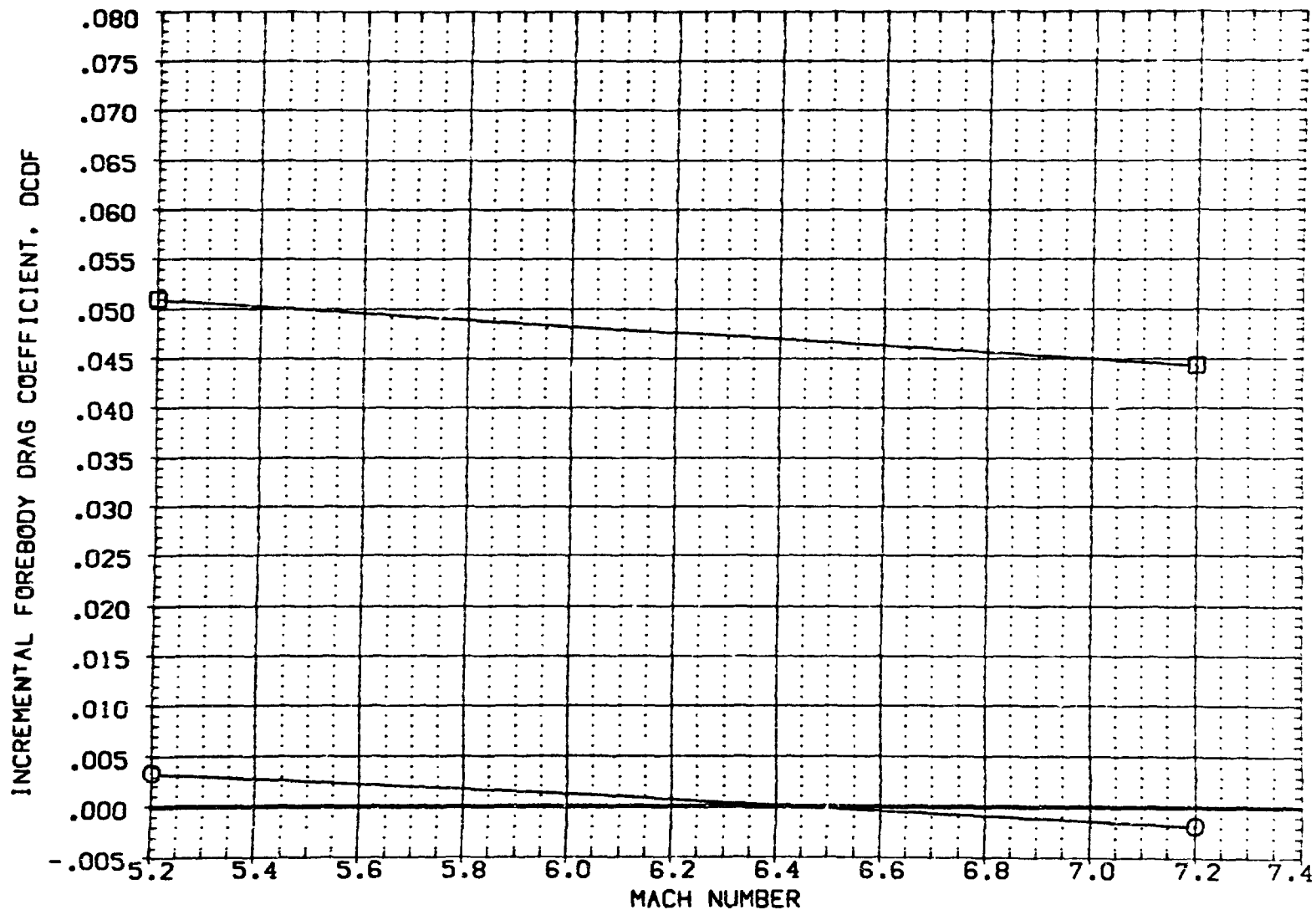


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86011)	○ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 460.0000 IN.
						SCALE .1.00 SCALE

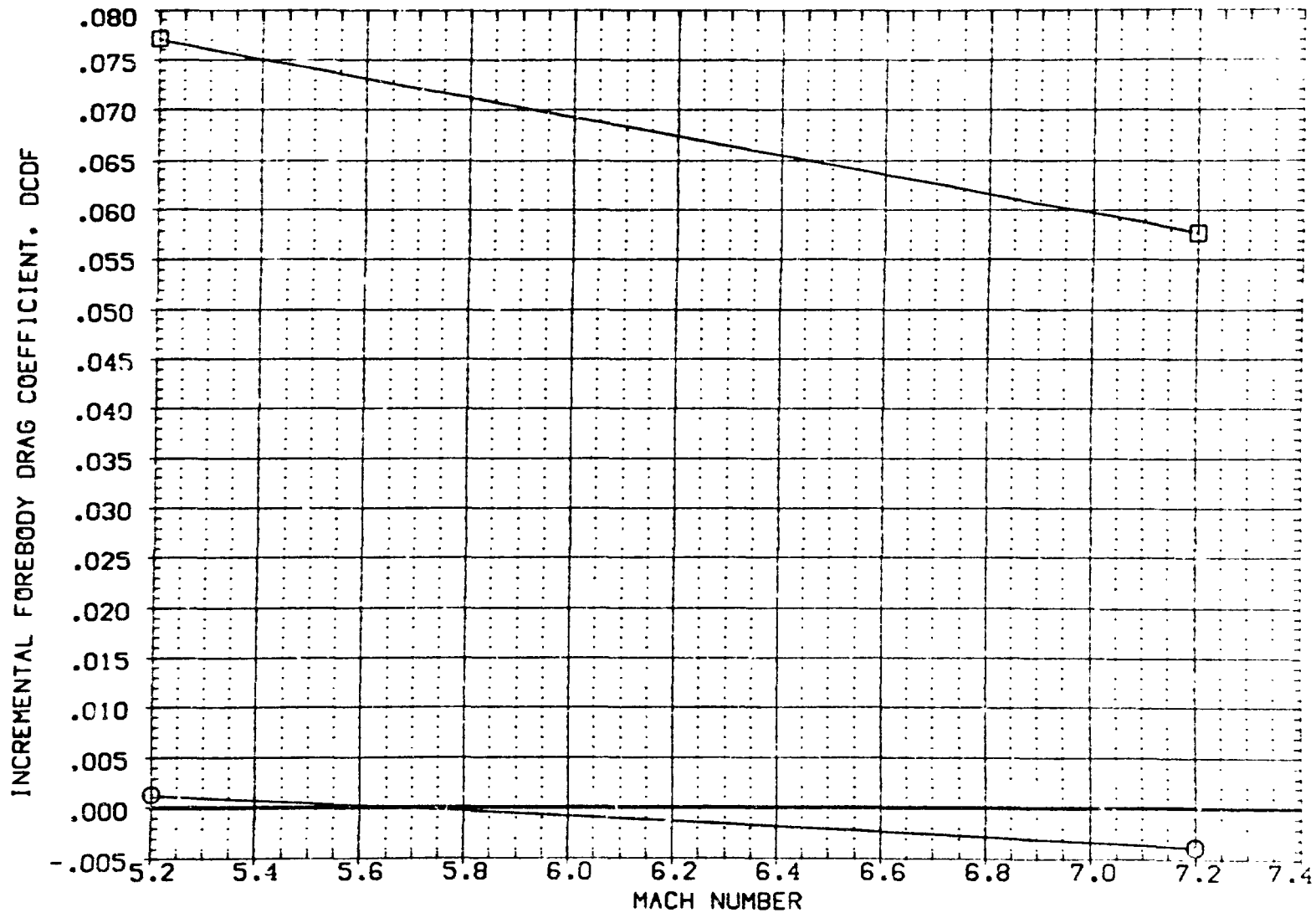


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(E) ALPHA = 50.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB5012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	ZREF 2690.0000 SQ. FT.
(LB5011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

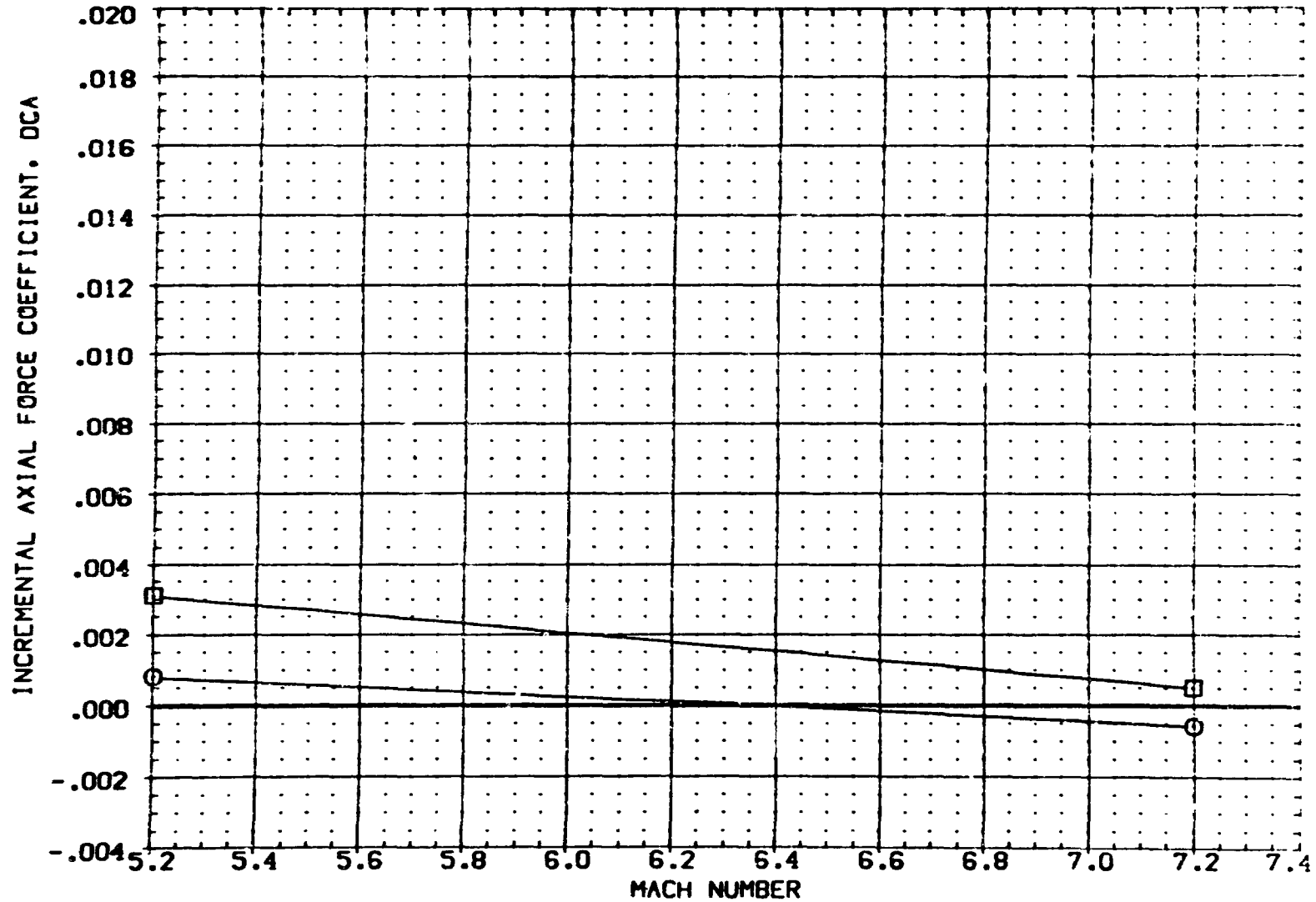


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UBG012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UBG011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

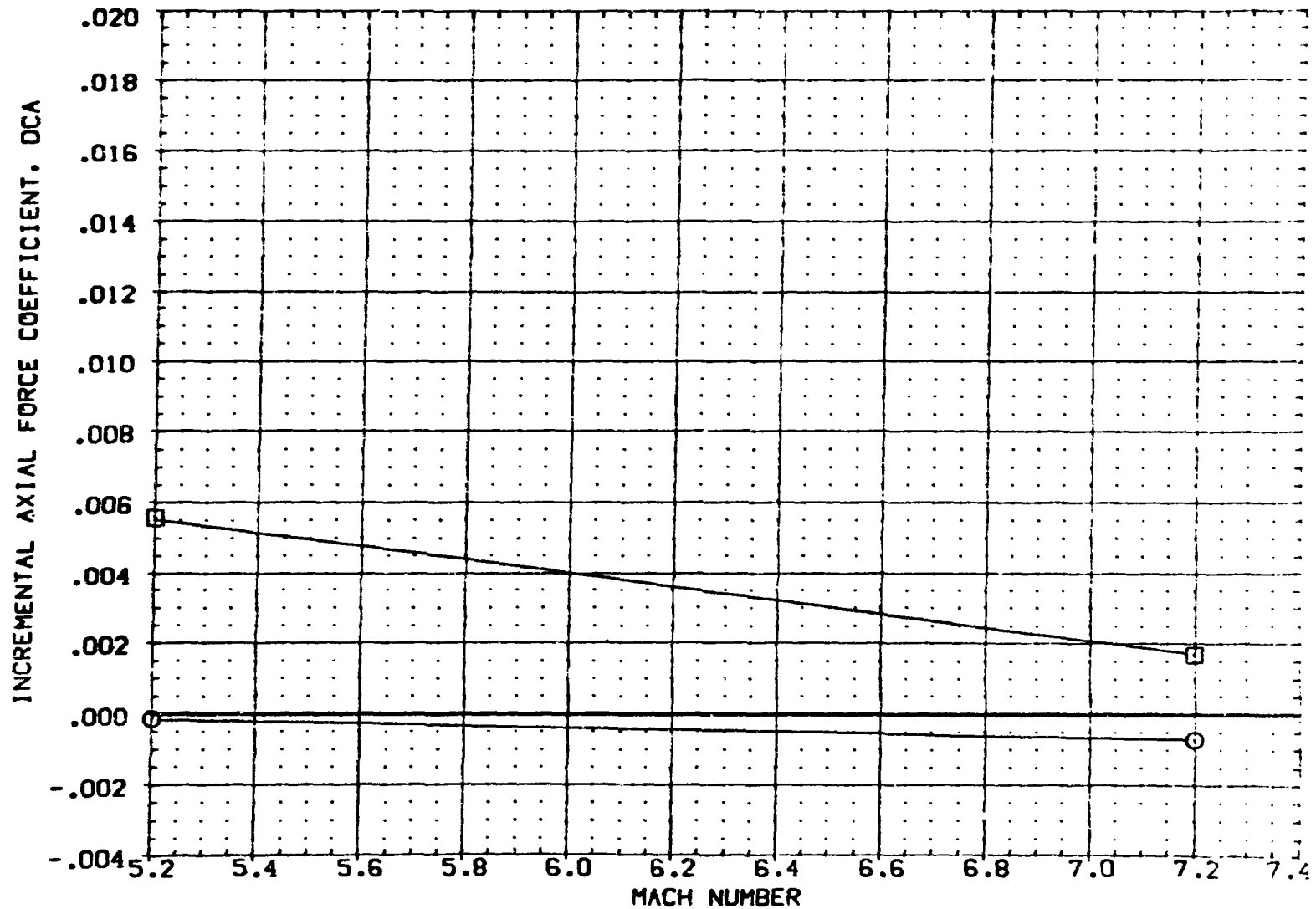


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6011)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

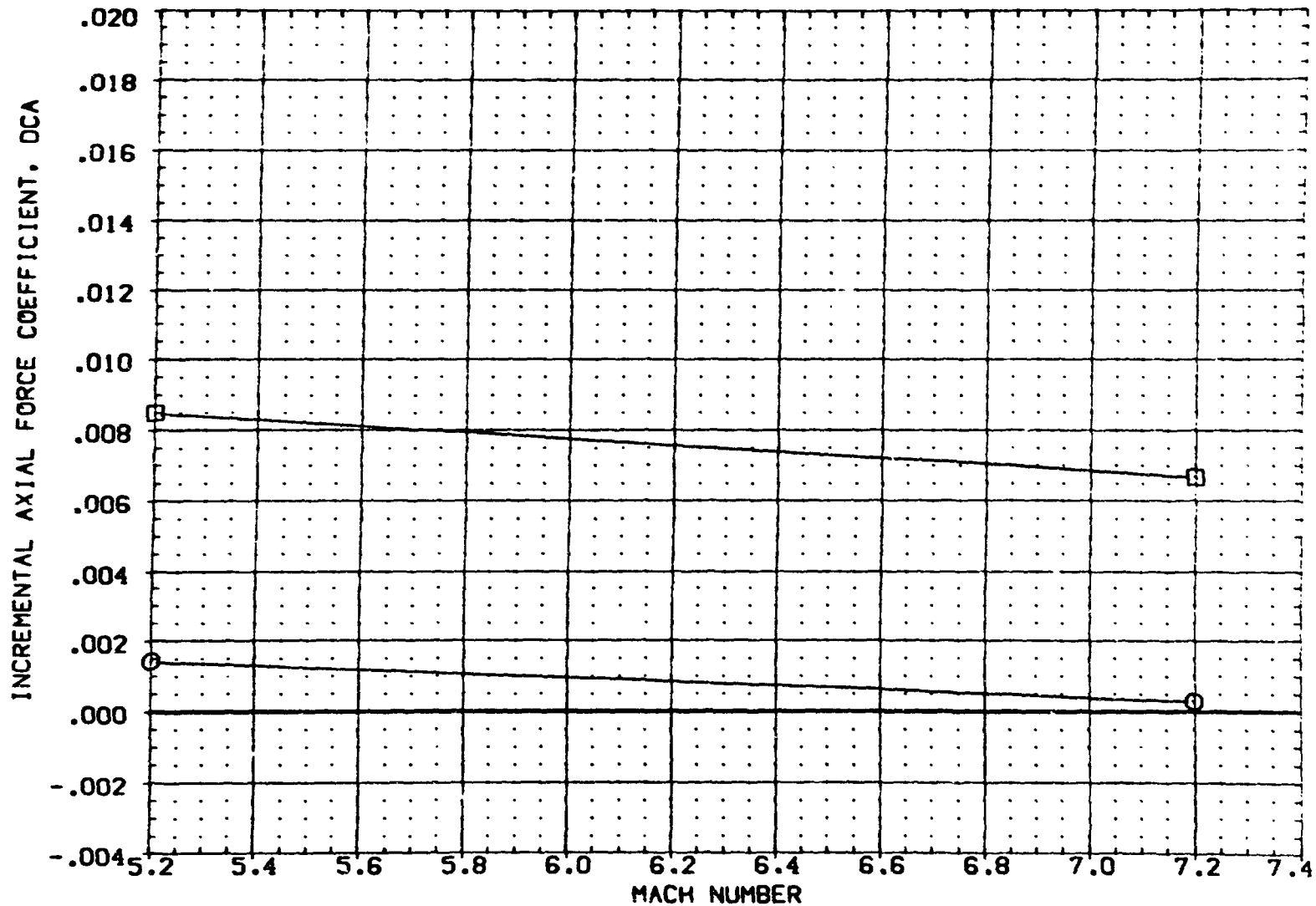


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(C)ALPHA = 30.00

DATA SE.	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	□	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT
(L86011)	□	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
							BREF 936.6800 IN.
							XMRP 1076.4800 IN.
							YMRP .0000 IN.
							ZMRP 400.0000 IN.
							SCALE .0100 SCALE

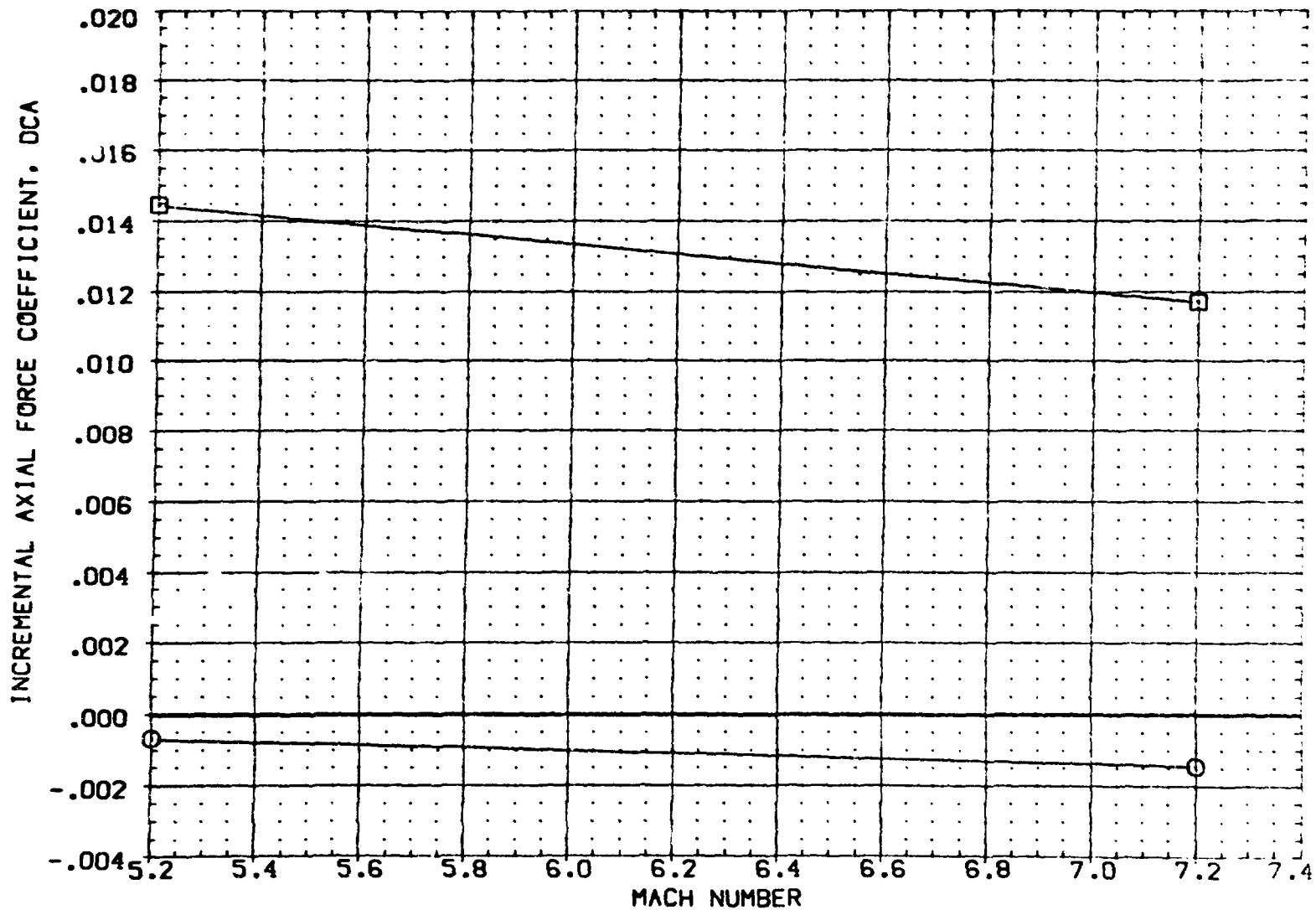


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

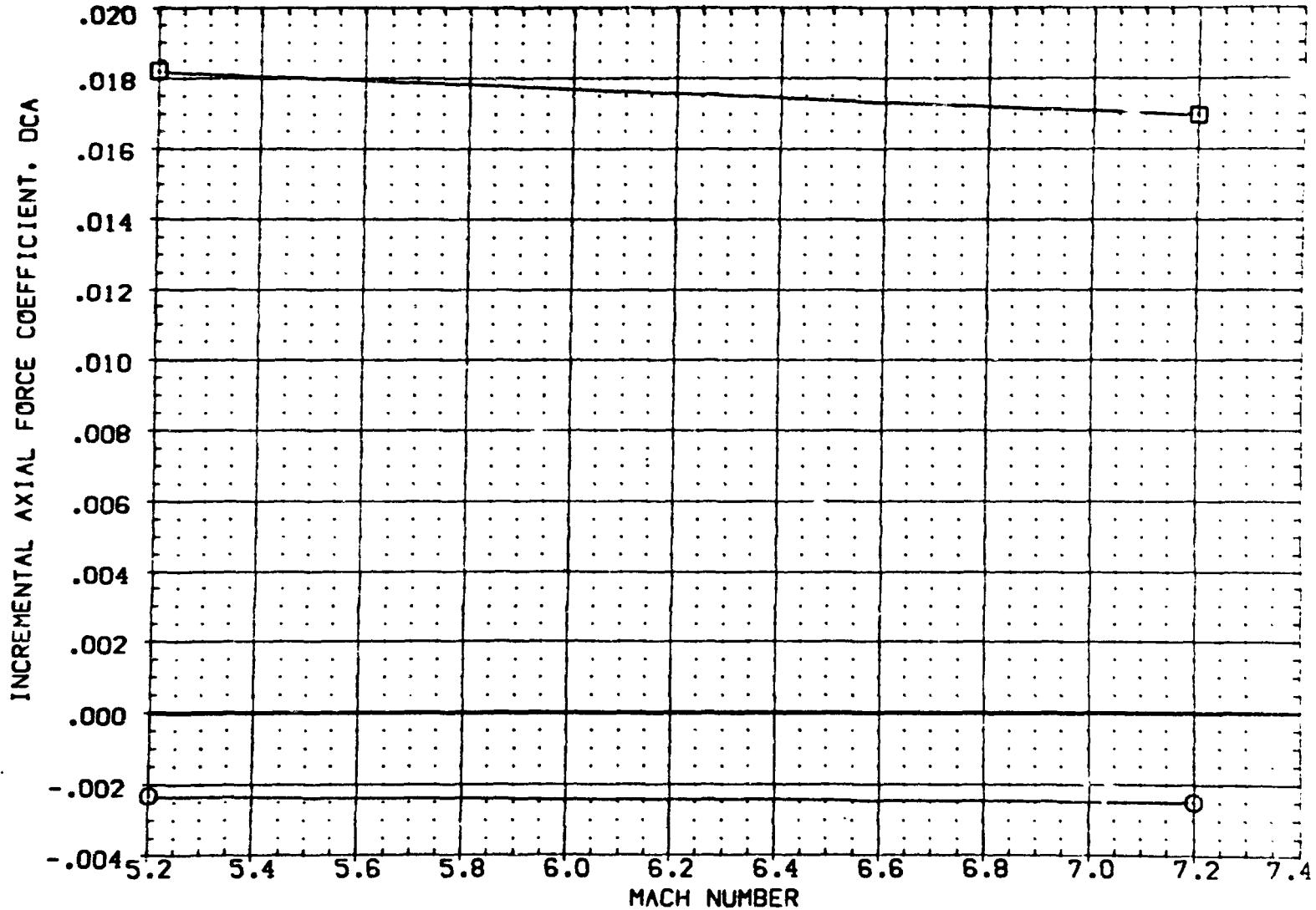


FIG. 8 BODY FLAP EFFECTS
 (E) ALPHA = 50.00
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 100.0000 IN. SCALE .0100 SCALE
(UB6011)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	

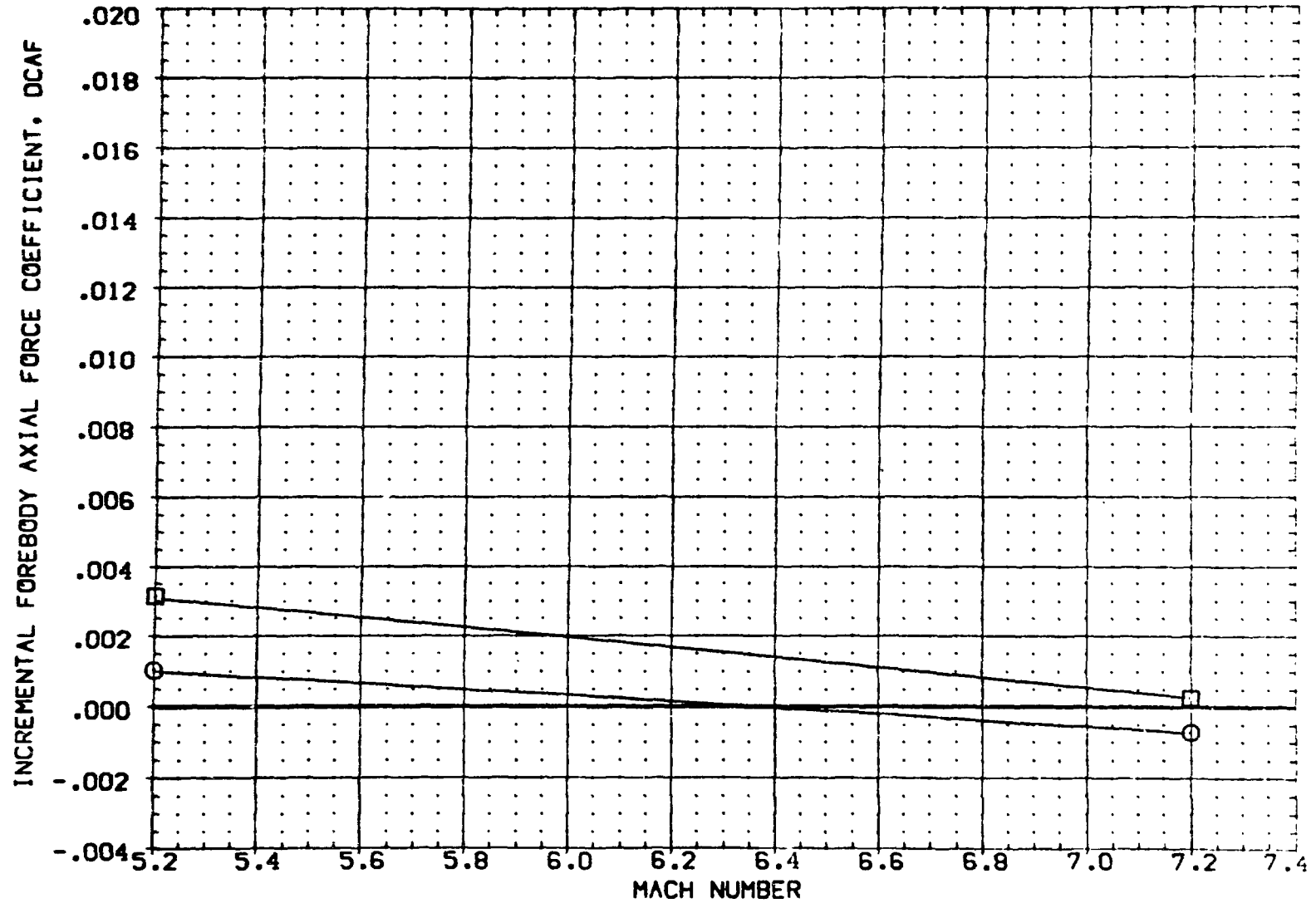


FIG. 8 BODY FLAP EFFECTS
 (A) ALPHA = 12.00
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(LB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(LB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	3.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

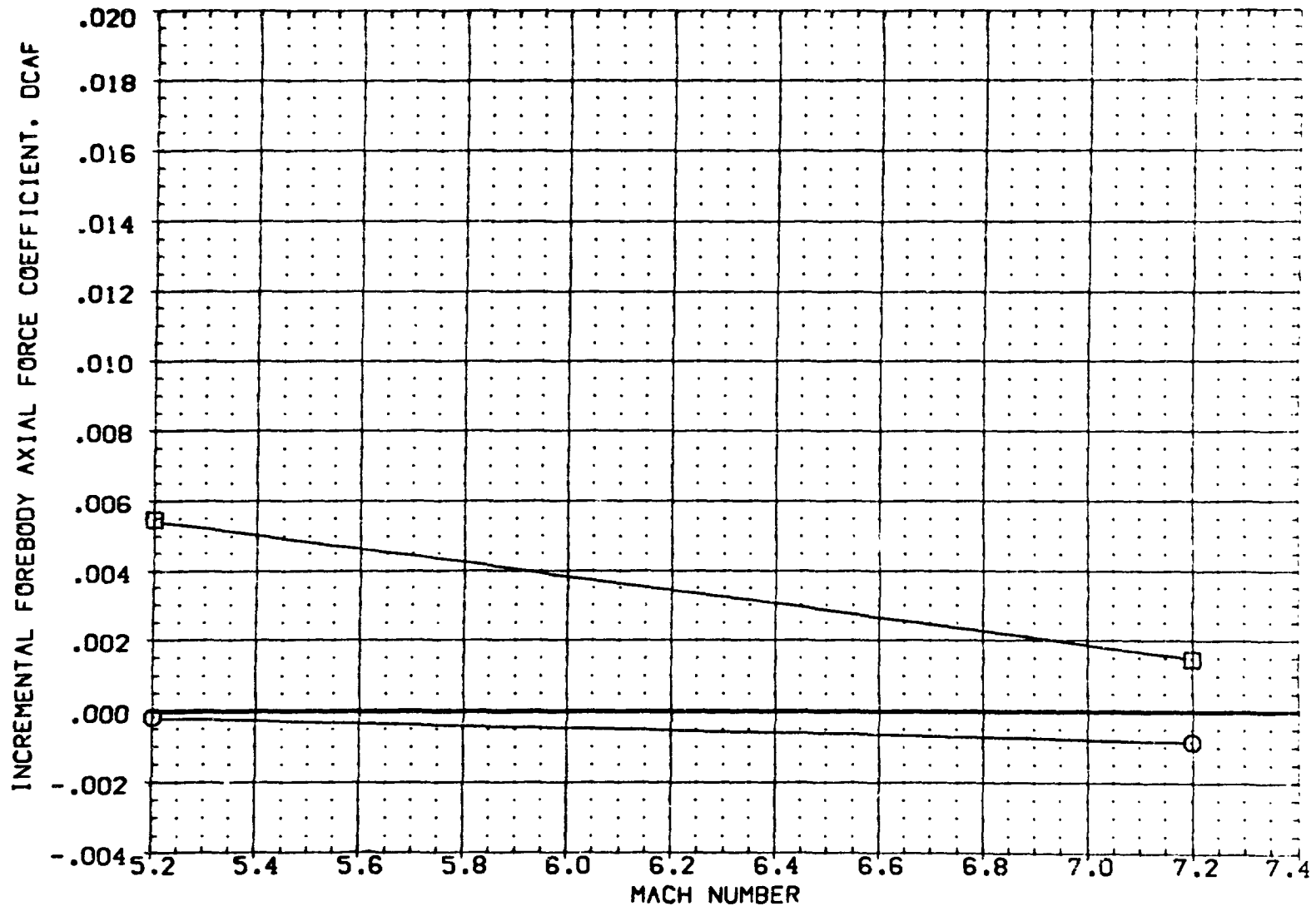


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	33.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86011)	ES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

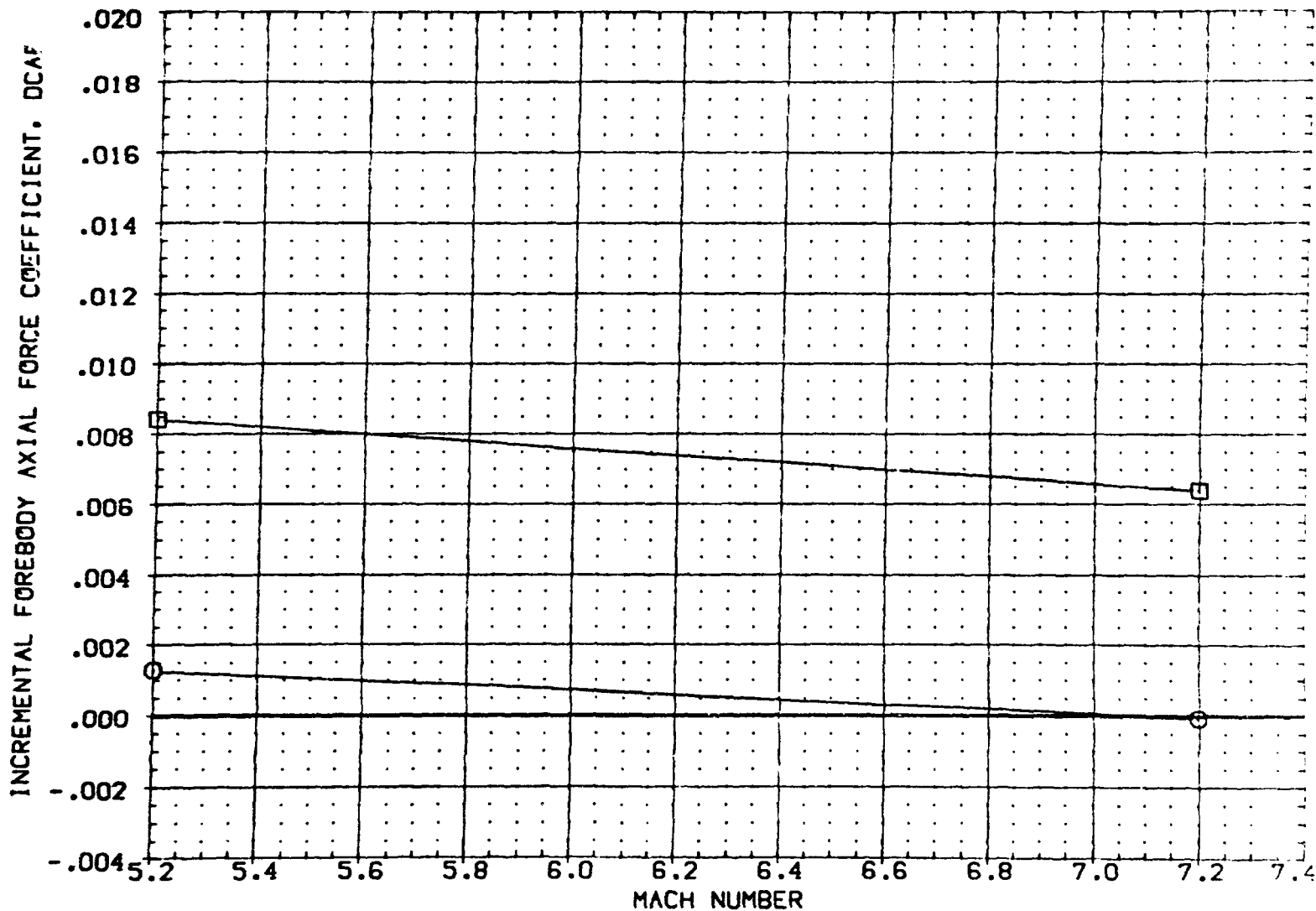


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT.
(L86011)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

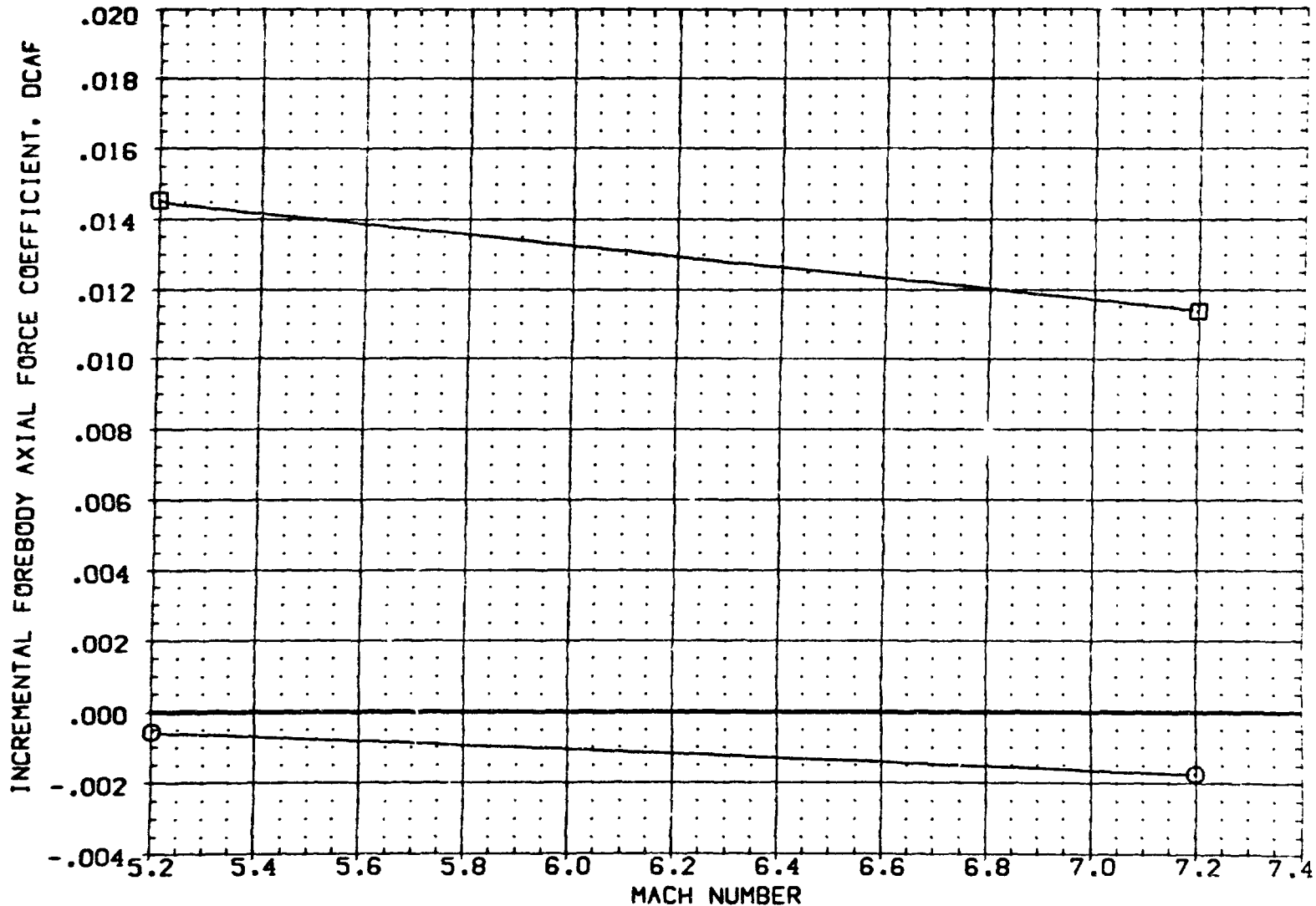


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION	
(L86012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF	2690.0000 SQ.FT.
(L86011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF	474.8000 IN.
						BREF	936.6800 IN.
						XMRP	1076.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

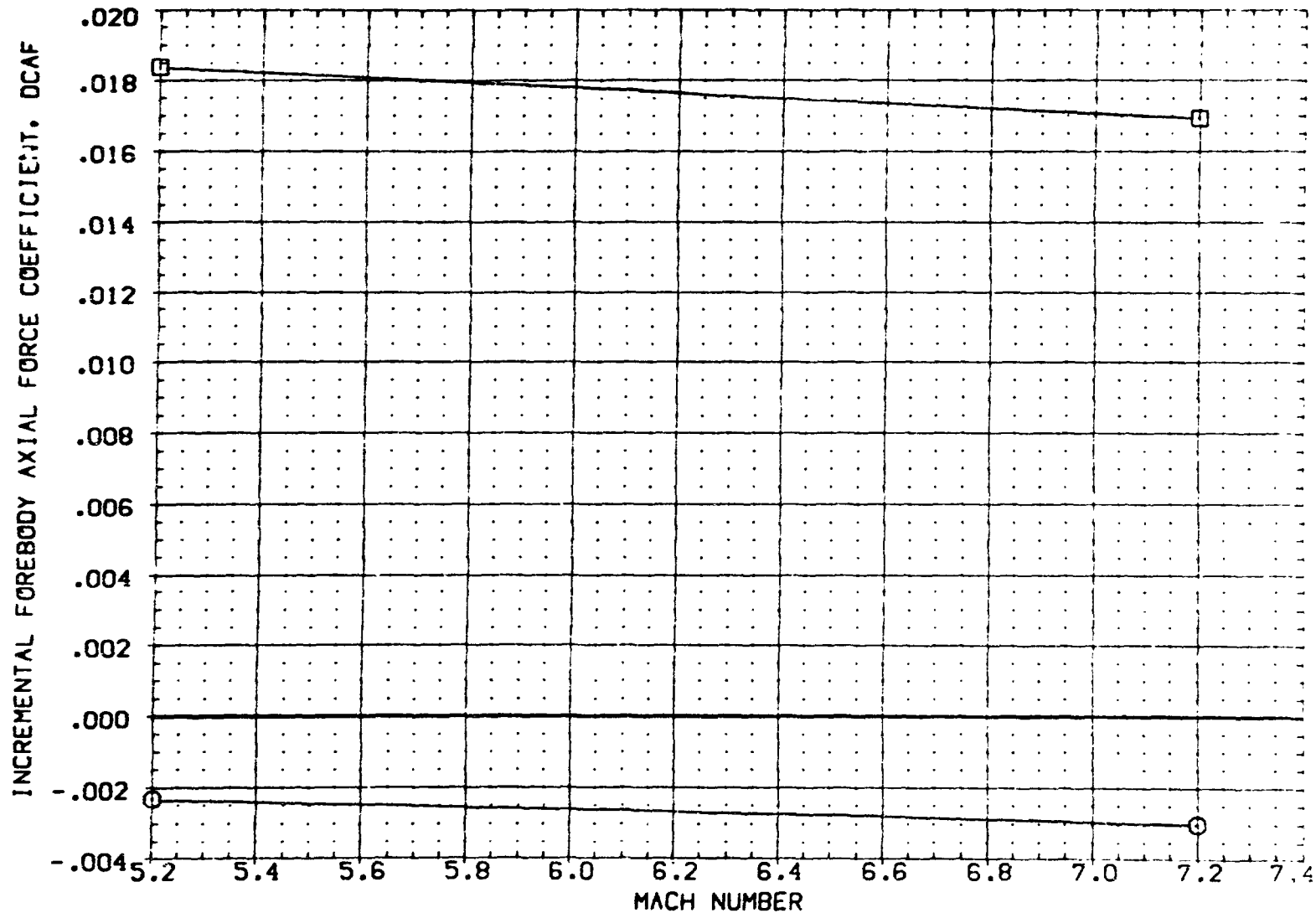


FIG. 8 BODY FLAP EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(L86011)	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

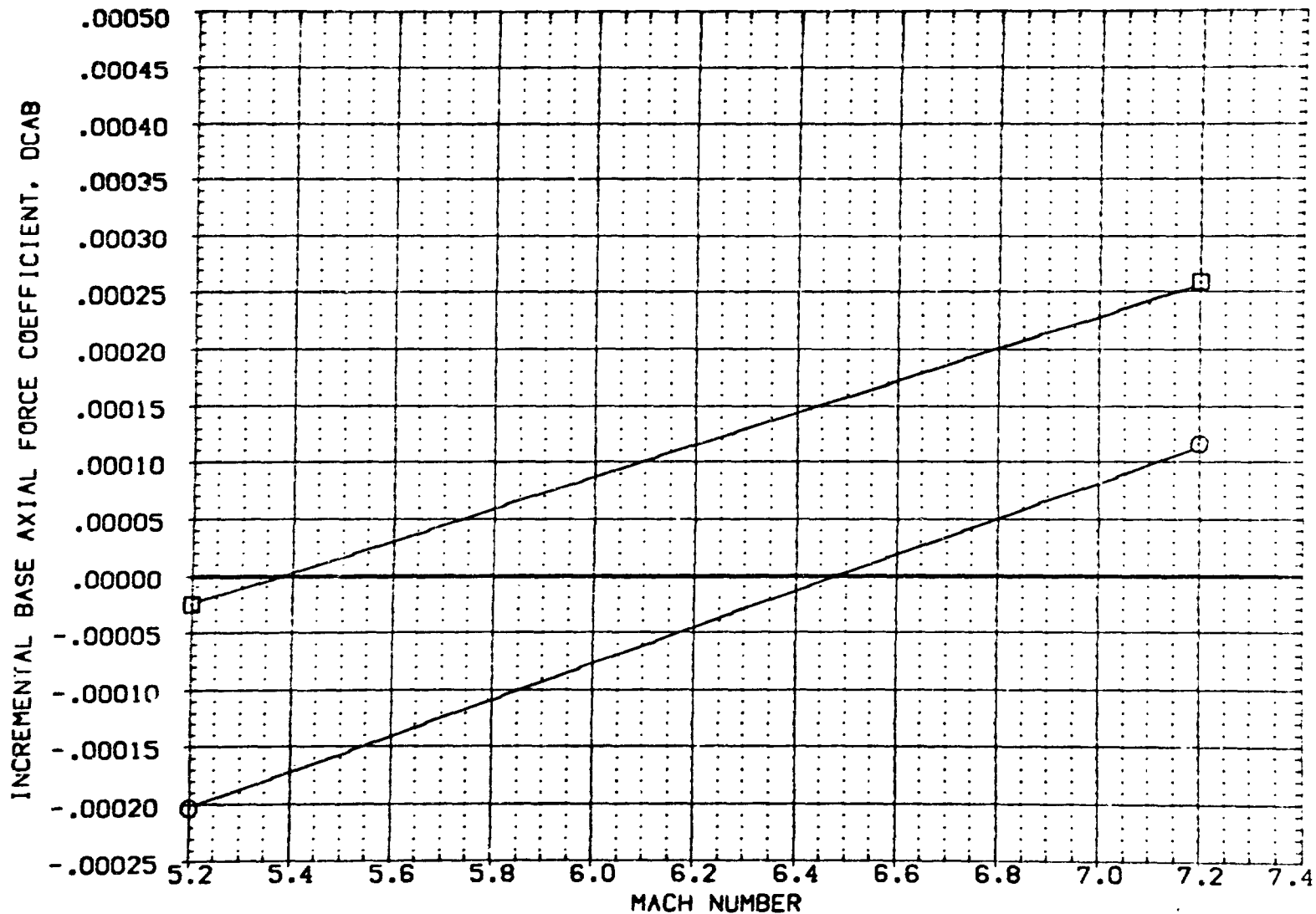


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UG6012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UG6011)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						ZMRP .0000 IN.
						YMRP 400.0000 IN.
						SCALE .0100 SCALE

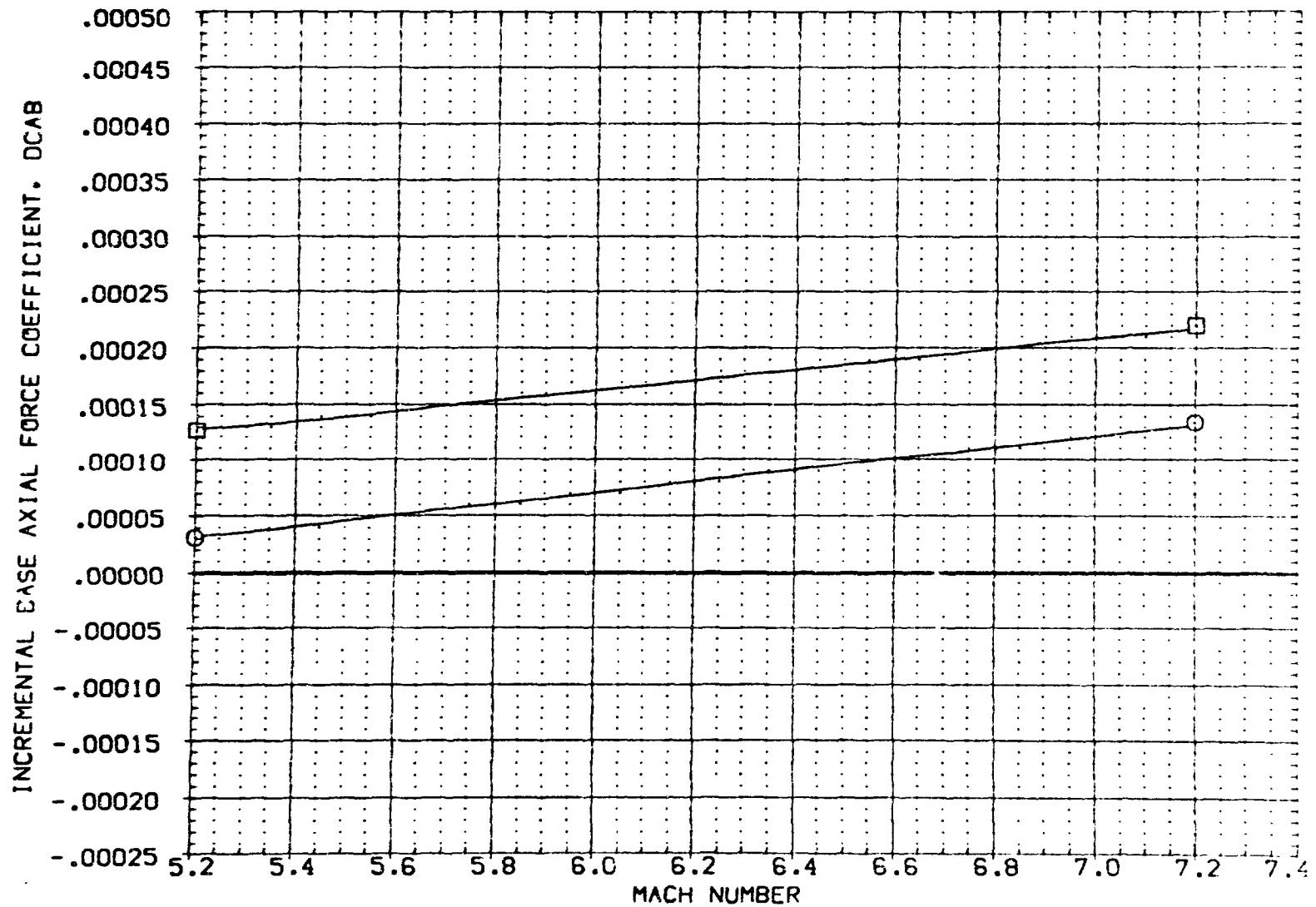


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN.
(U86011)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	13.750	55.000	.000	SCALE .0:100 SCALE

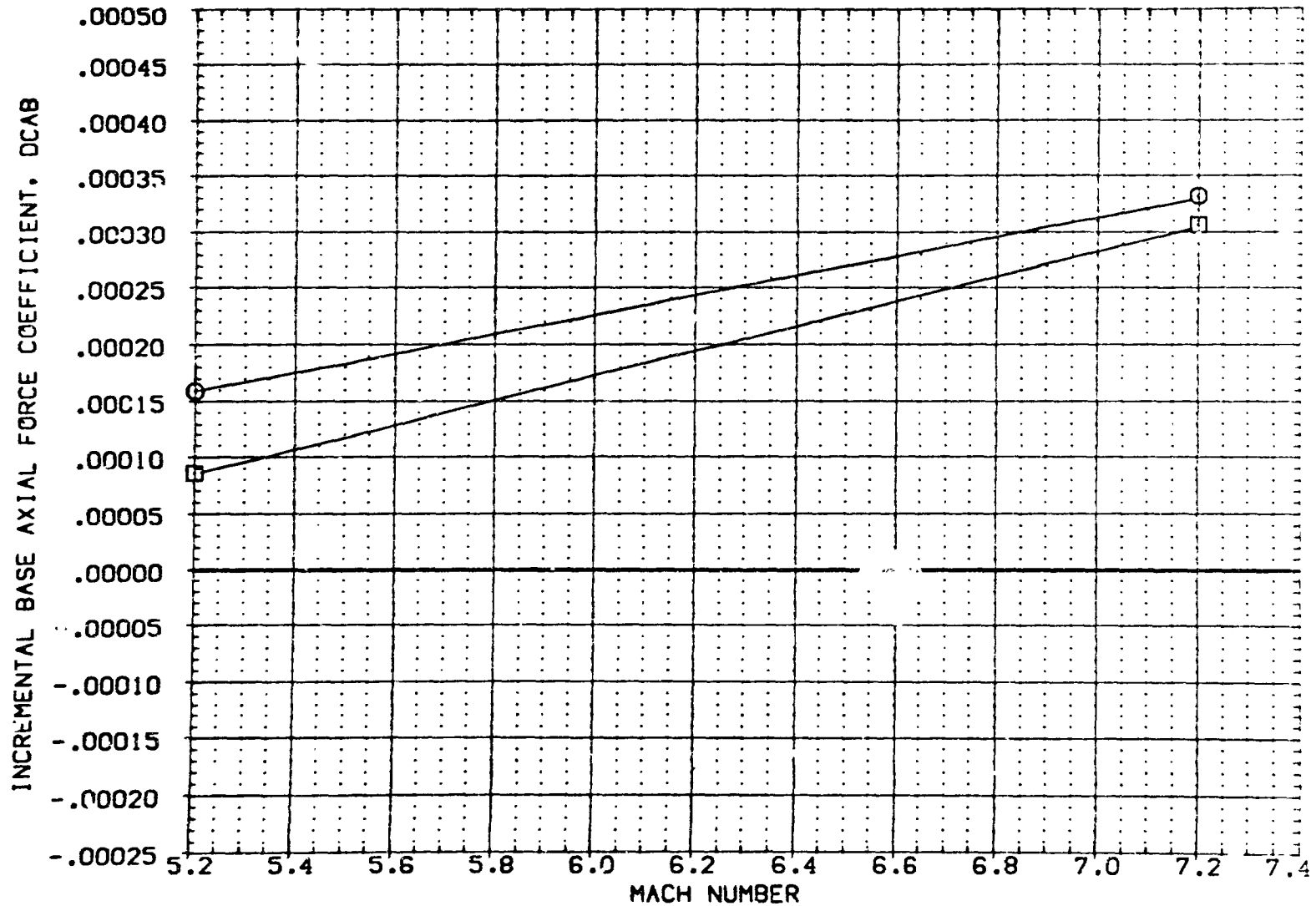


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	FLUDER	REFERENCE INFORMATION
(UB6012) ○	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(UB6011) □	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N3 R5 V7 V107	.000	13.750	55.000	.000	

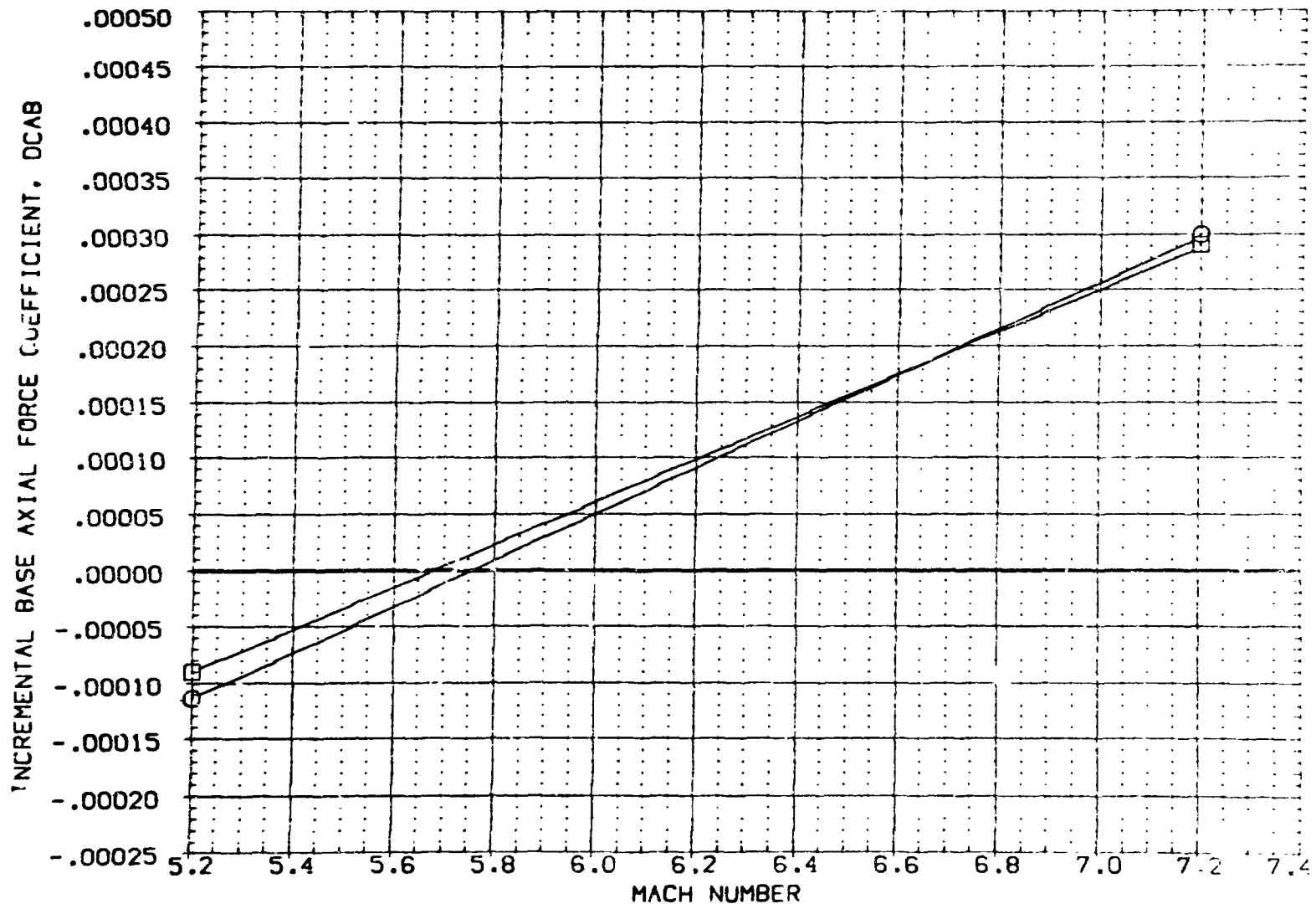


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D) ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBANK	RUDDER	REFERENCE INFORMATION
(L06012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.F.T.
(L06011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

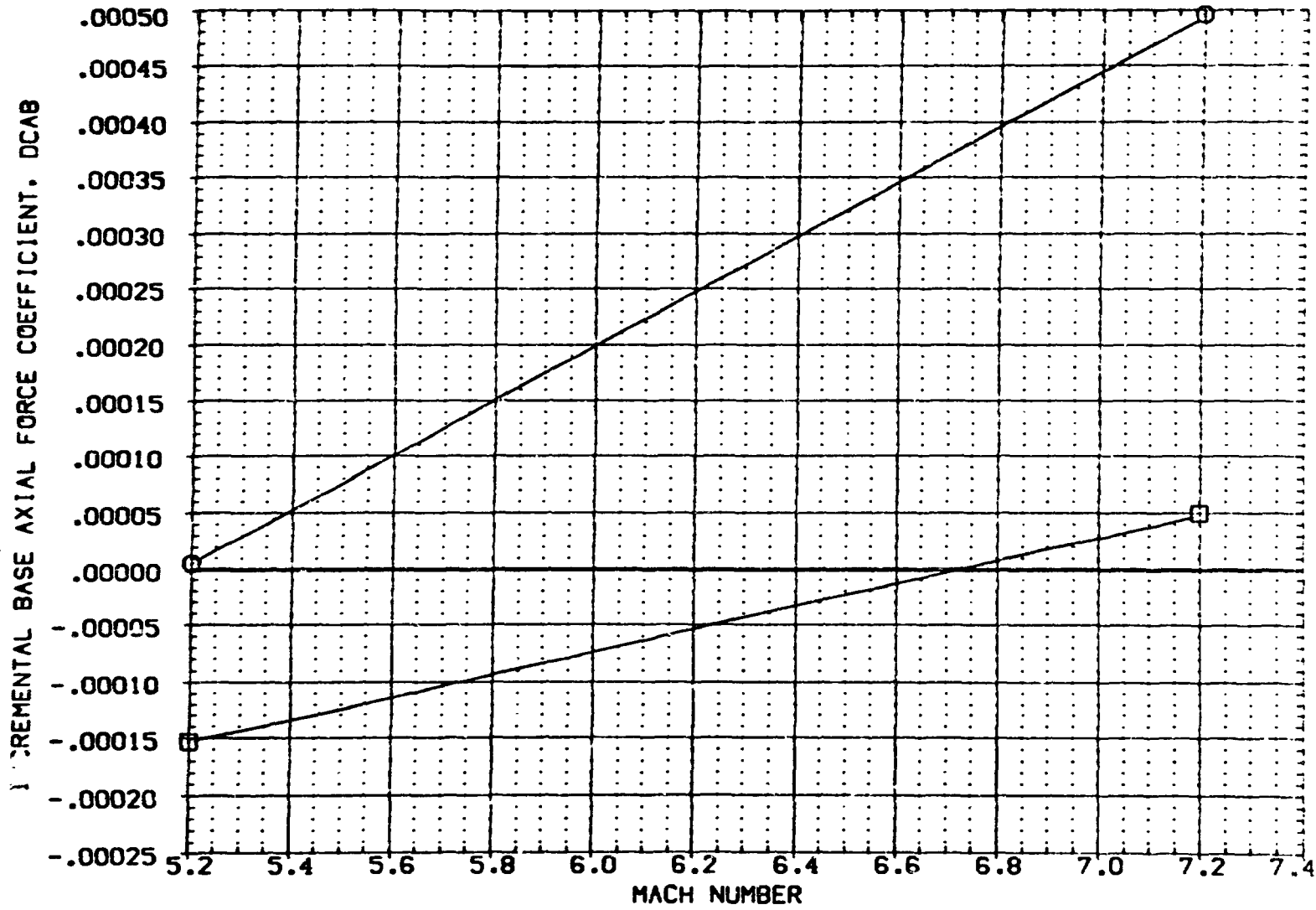


FIG. 8 BODY FLAP EFFECTS
 (E) ALPHA = 50.00
 139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(L86011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

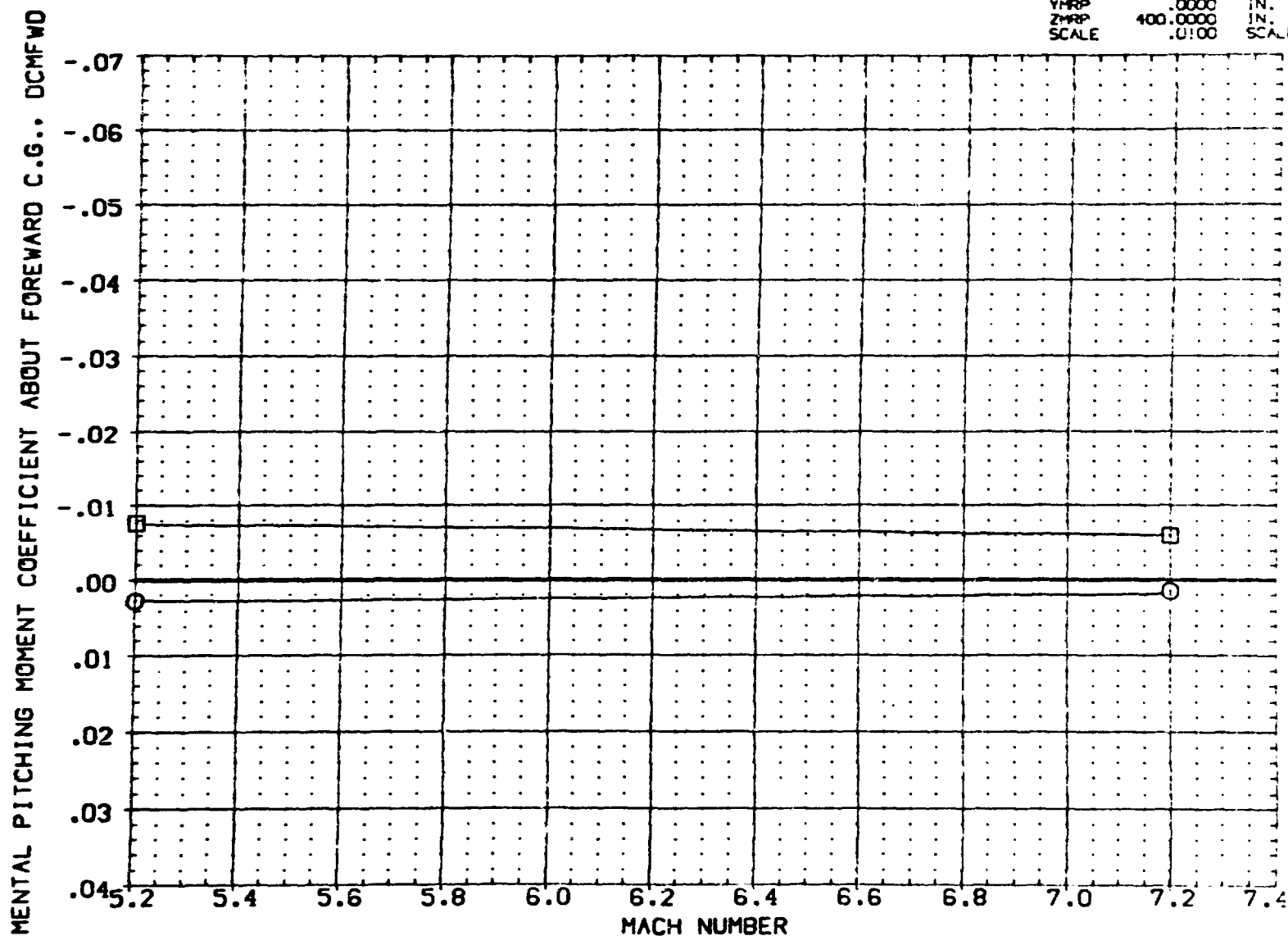


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 CA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.F.
(L86011)	AMES3.5-168 CA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

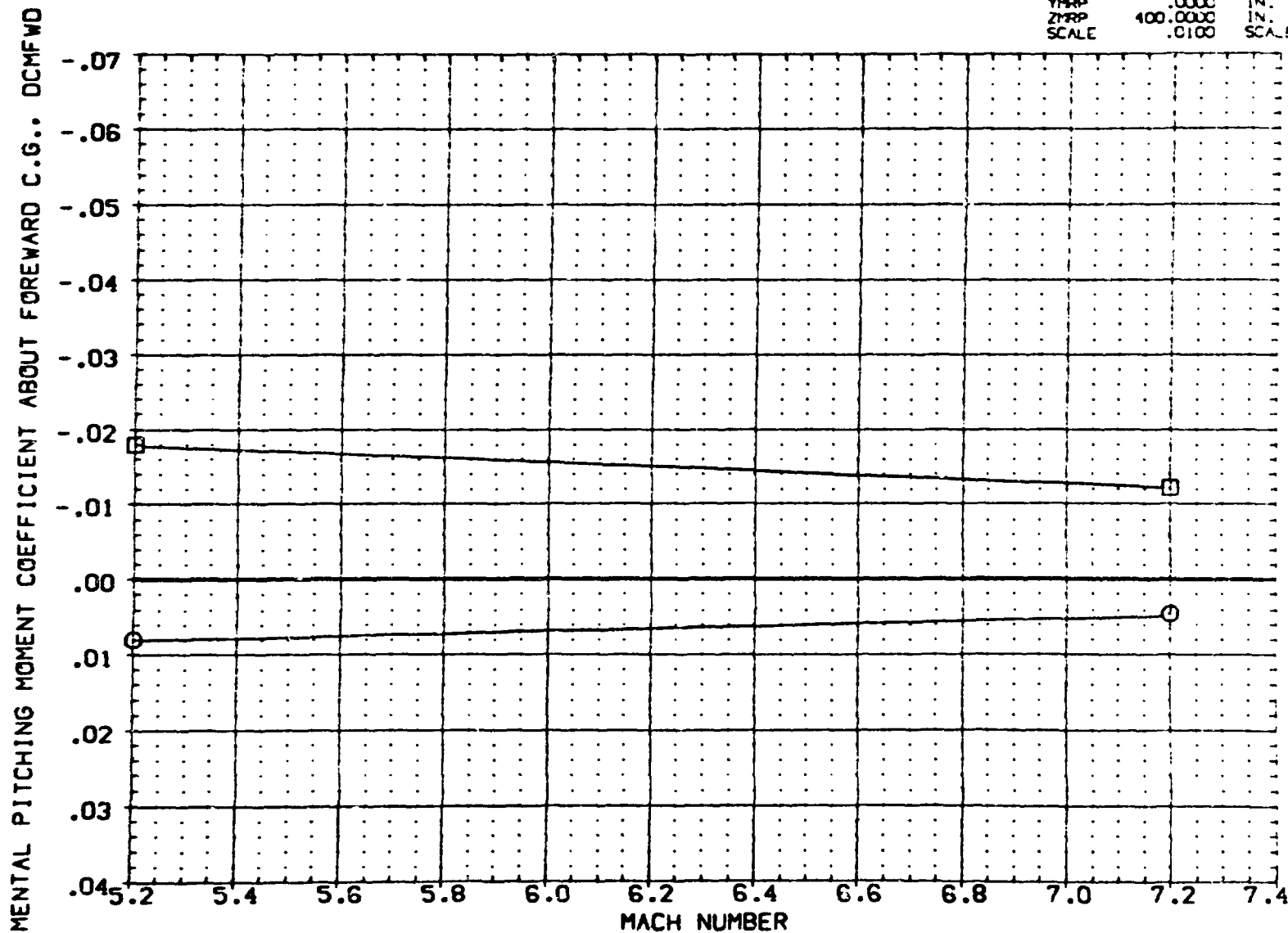


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

1398 CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	FLUDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SO.FT. LREF 4'4.8000 IN. BREF 93.6800 IN. XHRP 1076.4800 IN. YHRP .0000 IN. ZHRP 400.0000 IN. SCALE .0100 SCALE
(UB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	

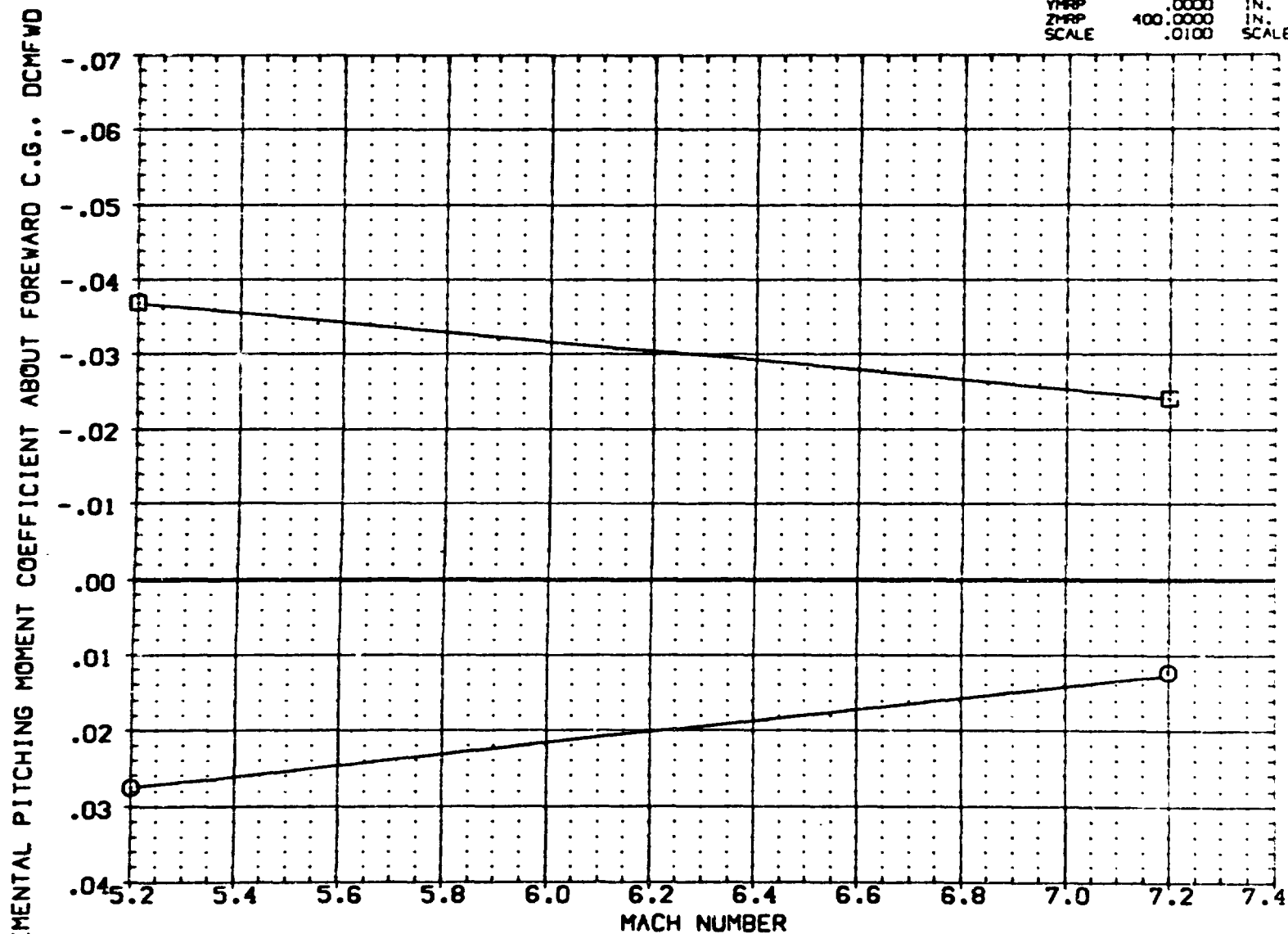


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86011)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	55.000	.000	

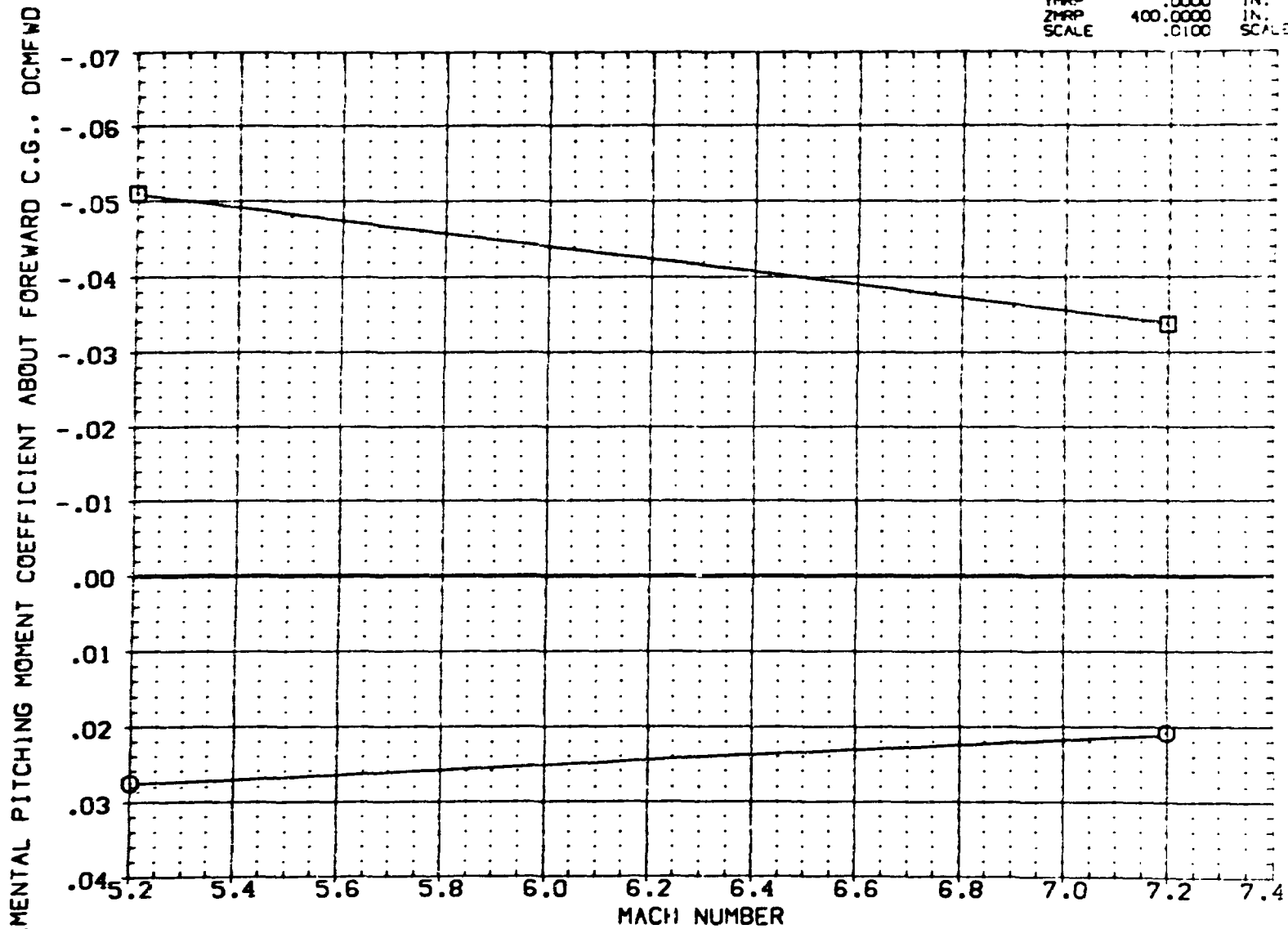


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

(D)ALPHA = 40.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

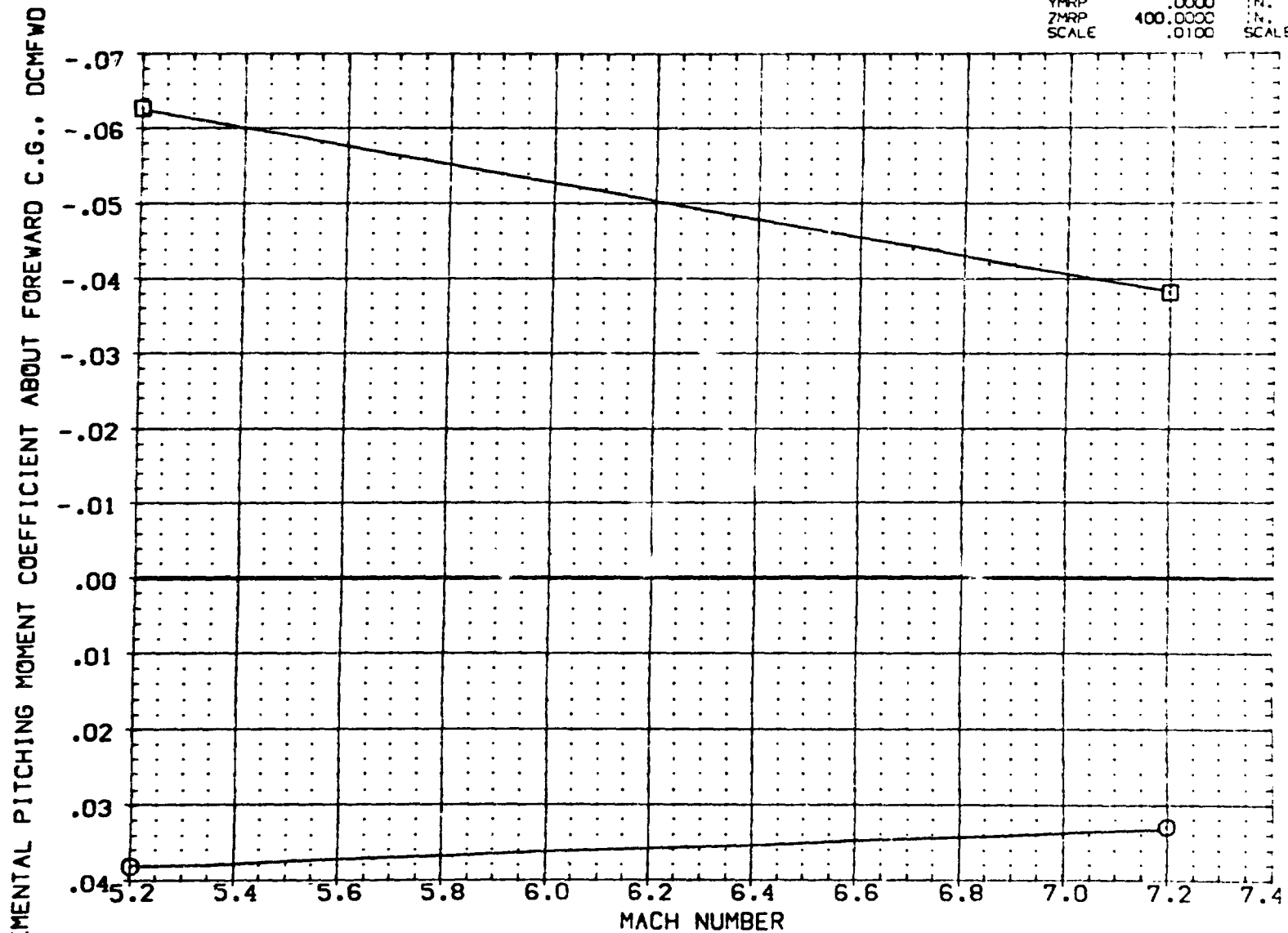


FIG. 8 BODY FLAP EFFECTS
(E) ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

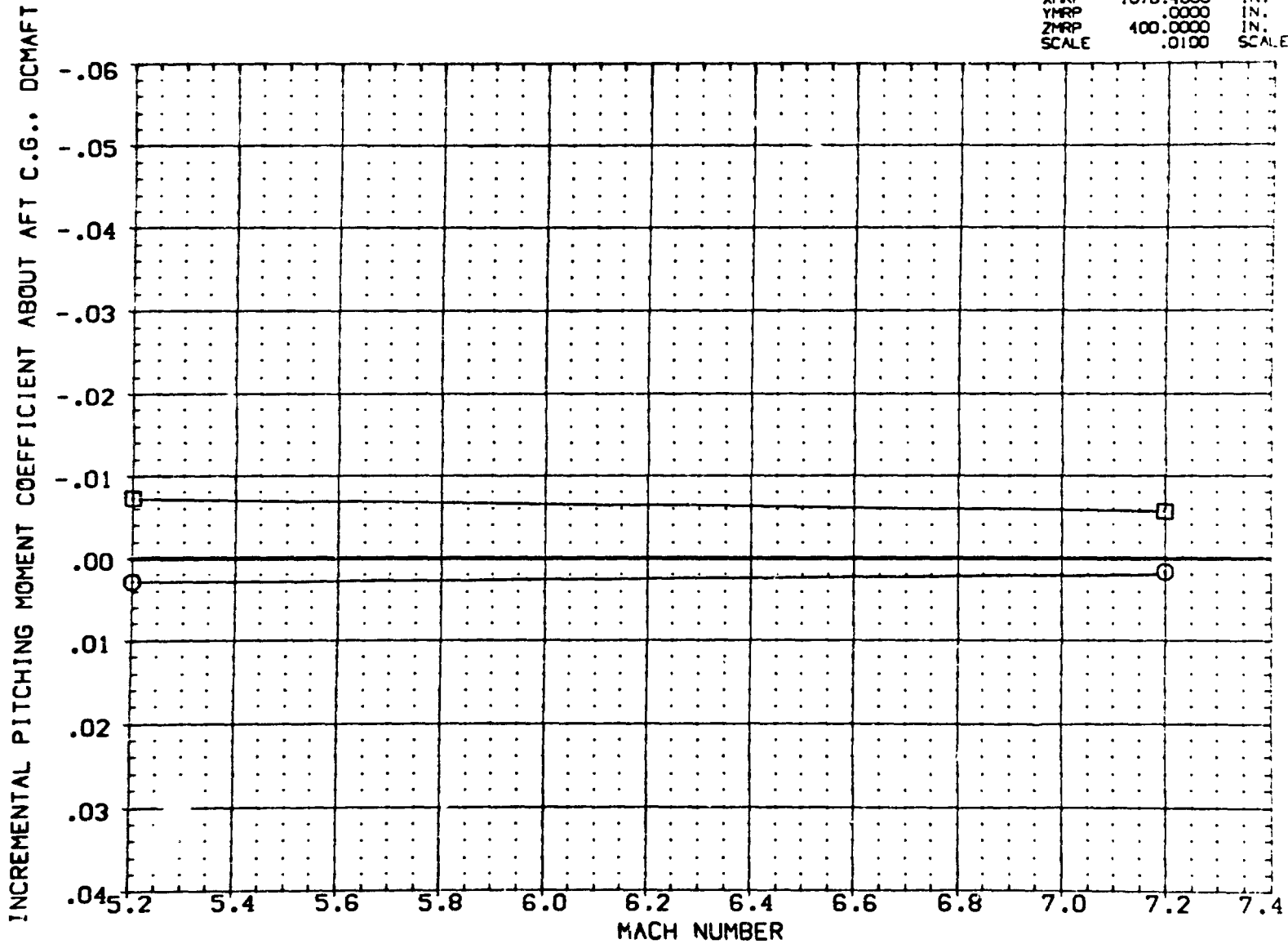


FIG. 8 BODY FLAP EFFECTS
(A) ALPHA = 12.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(UB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(UB6011)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	13.750	55.000	.000	LREF 474.8000 IN.
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

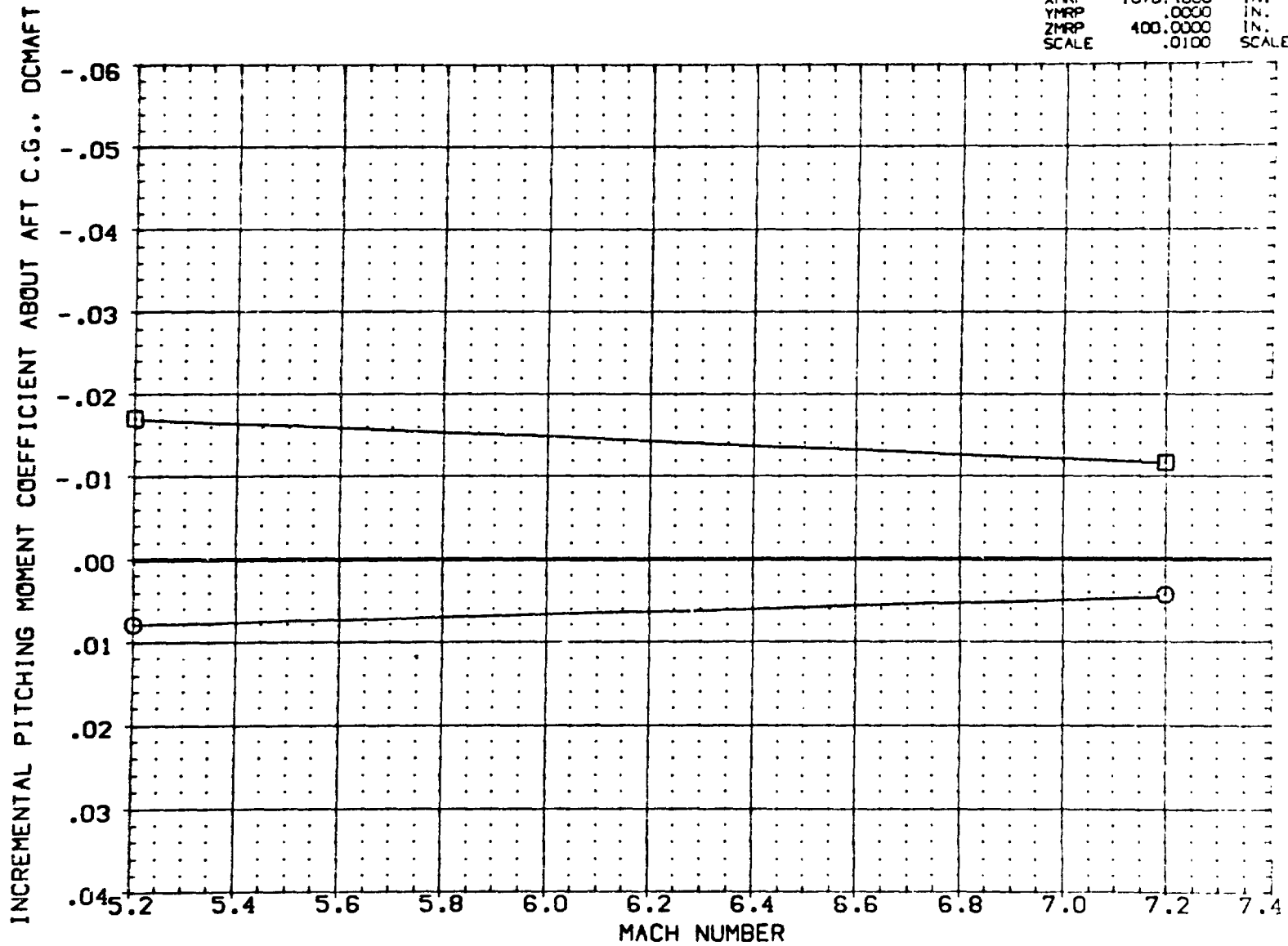


FIG. 8 BODY FLAP EFFECTS
(B) ALPHA = 20.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86012)	□ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(U86011)	○ AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	13.750	.000	LREF 474.8000 IN.	
						BREF 936.6800 IN.
						XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

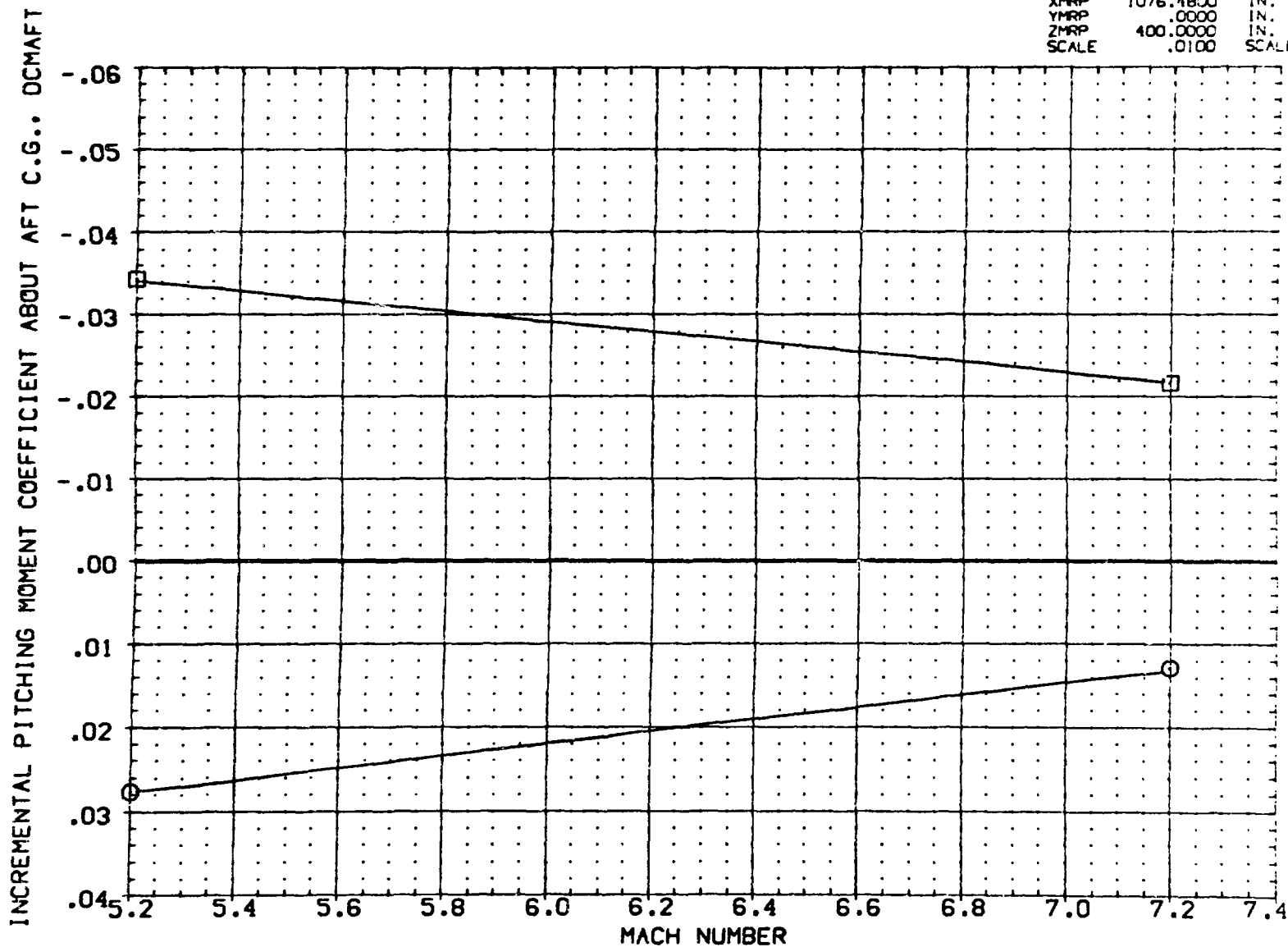


FIG. 8 BODY FLAP EFFECTS
(C) ALPHA = 30.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPDBRK	RUDDER	REFERENCE INFORMATION
(L86012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(L86011)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	

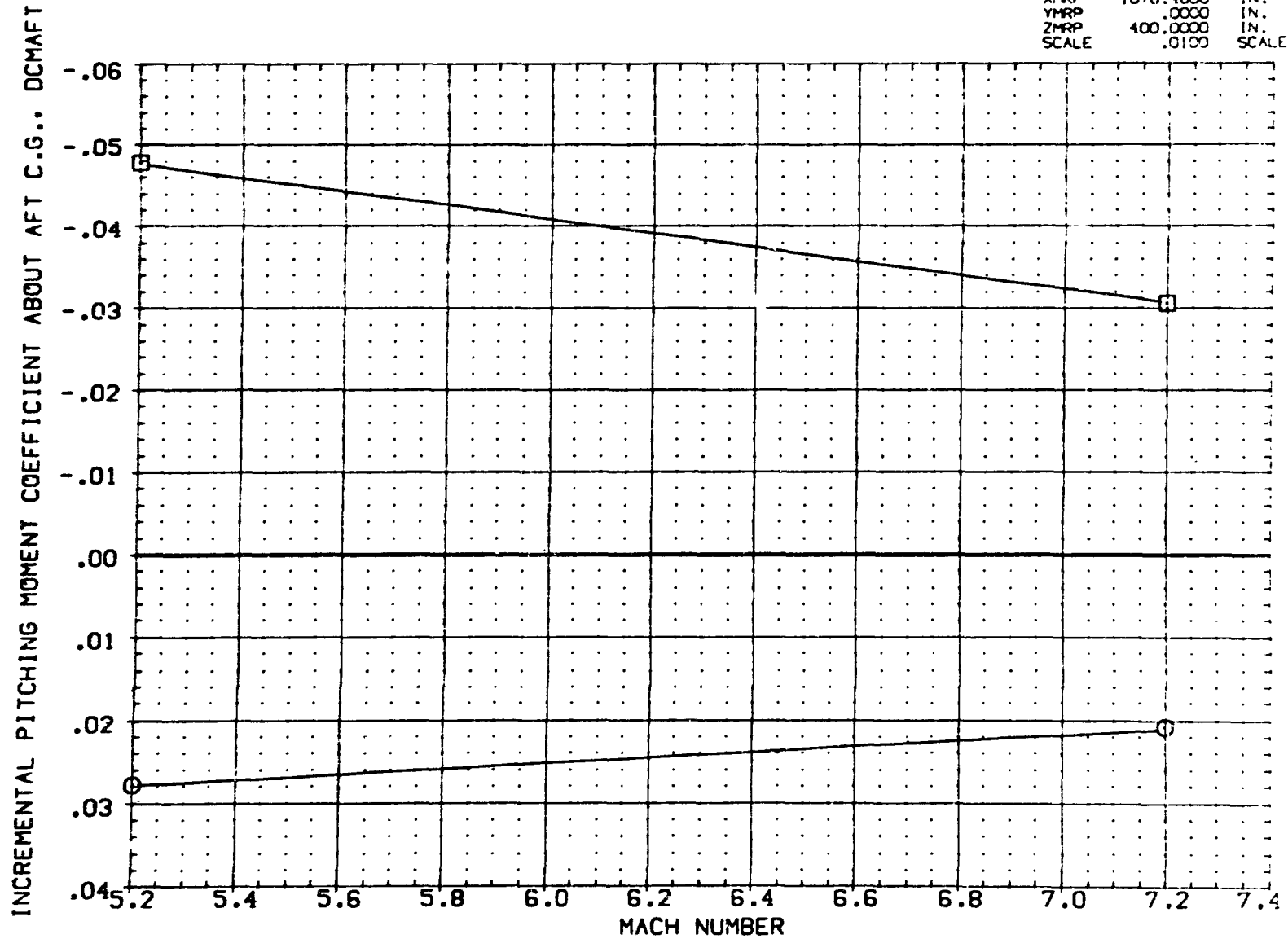


FIG. 8 BODY FLAP EFFECTS
(D) ALPHA = 40.00

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DBF	SPOBRK	RUDDER	REFERENCE INFORMATION
(U86012)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SC.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(U86011)	□ AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	13.750	55.000	.000	

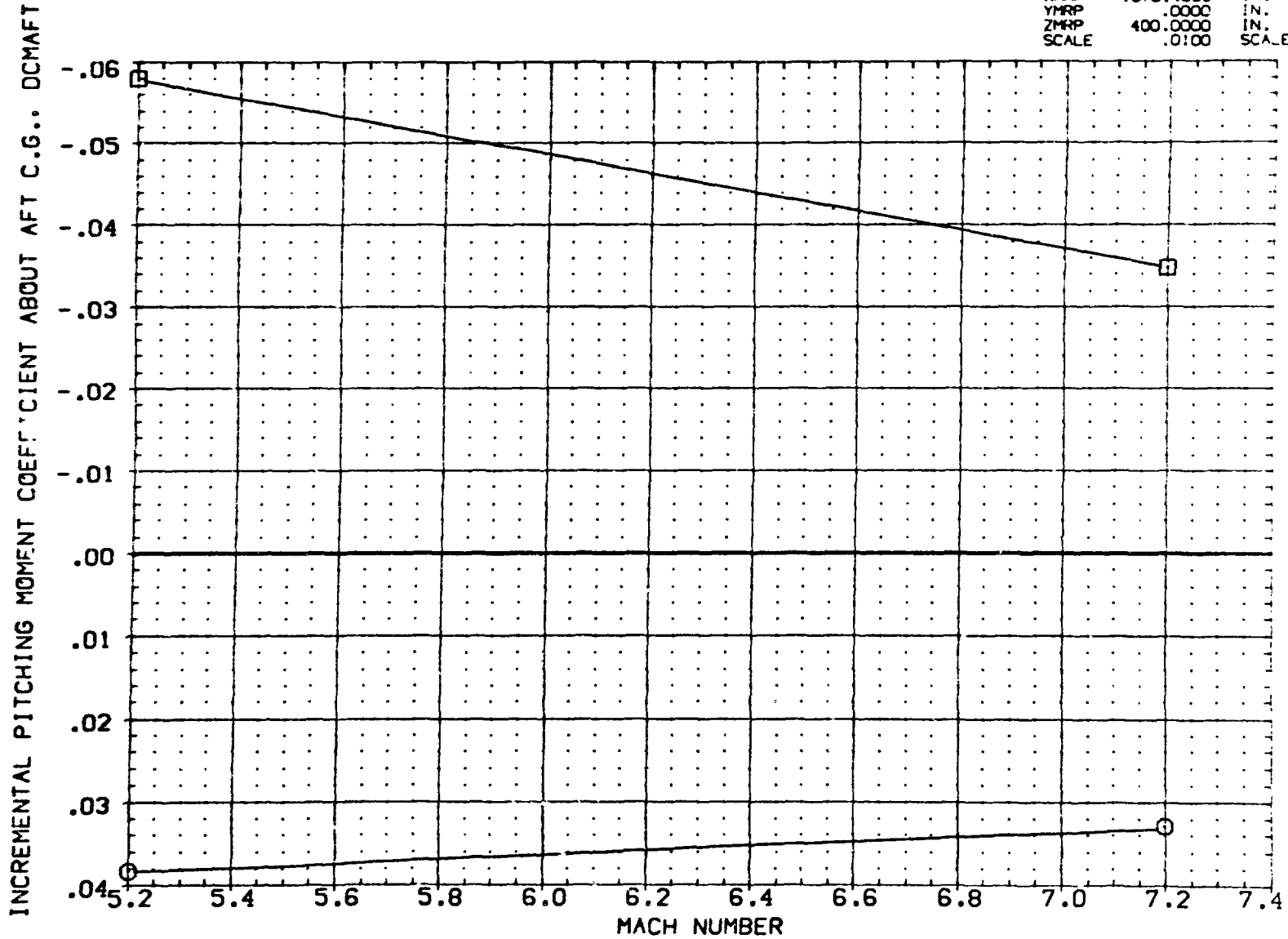


FIG. 8 BODY FLAP EFFECTS
(E)ALPHA = 50.00

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	DBF	DATASET	DBF	DATASET	DBF	SREF	SC.FT.
○	12.000	5.200	.000	UB6012	-14.250	DB6010	.000	2690.0000	IN.	
□	20.000	.000	.000	UB6012	13.750			474.8000	IN.	
◇	30.000	55.000	.000	UB6011				936.6800	IN.	
△	40.000							1076.4800	IN.	
▽	50.000							.0000	IN.	
								ZMRP	400.0000	IN.
								SCALE	.0100	SCALE

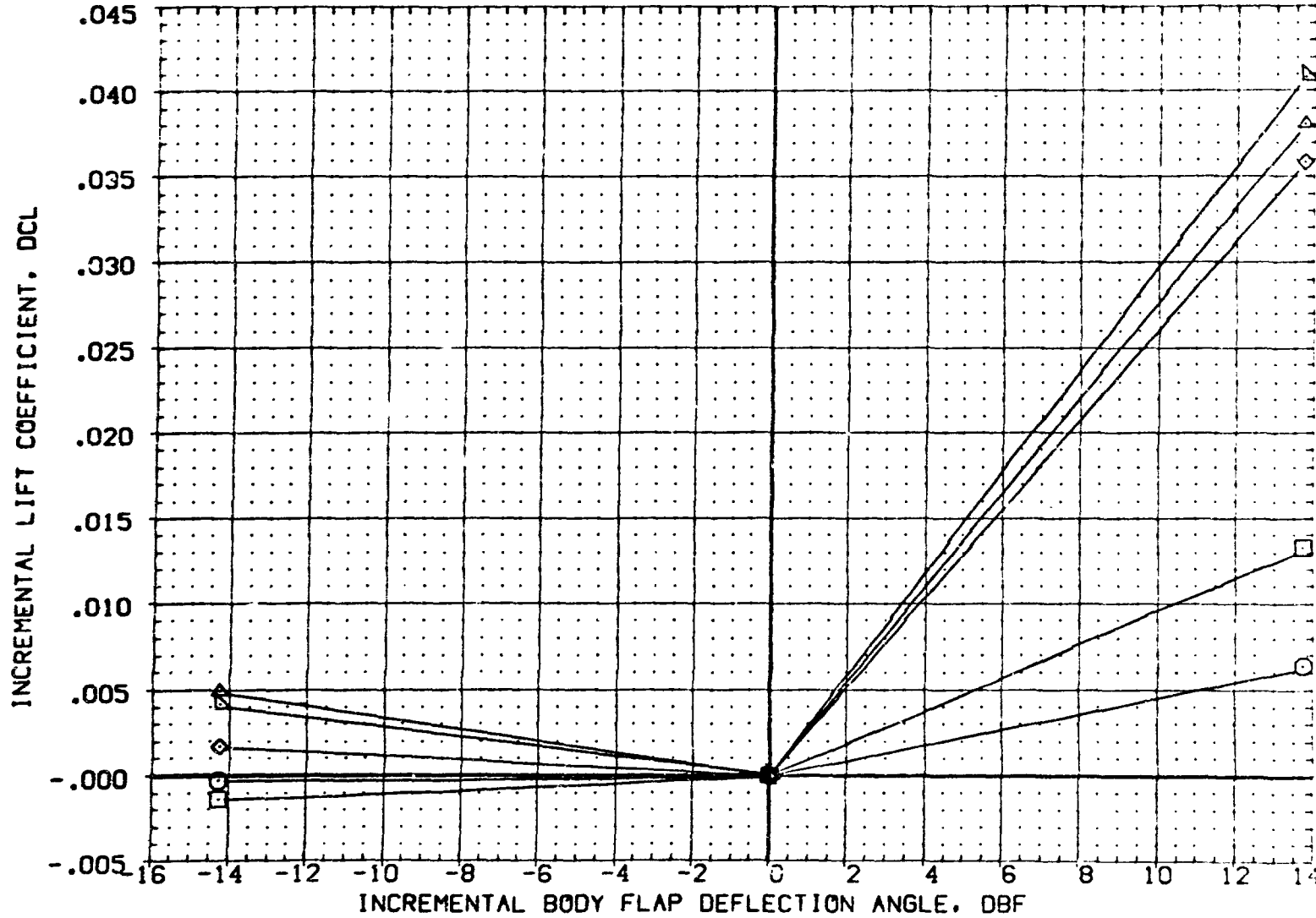


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
		MACH	BETA	DBF	DBF	DBF	DBF	SREF	REF	SCALE		
○	12.000	7.200	.000	UB6012	-14.250	DB6010	.000	2690.0000	474.8000	IN.		
□	20.000	.000	.000	UB6012	-14.250	DB6010	.000	936.6800	1076.4800	IN.		
◇	30.000	55.000	.000	UB6011	13.750			.0000	400.0000	IN.		
△	40.000							.0100		SCALE		
▽	50.000											

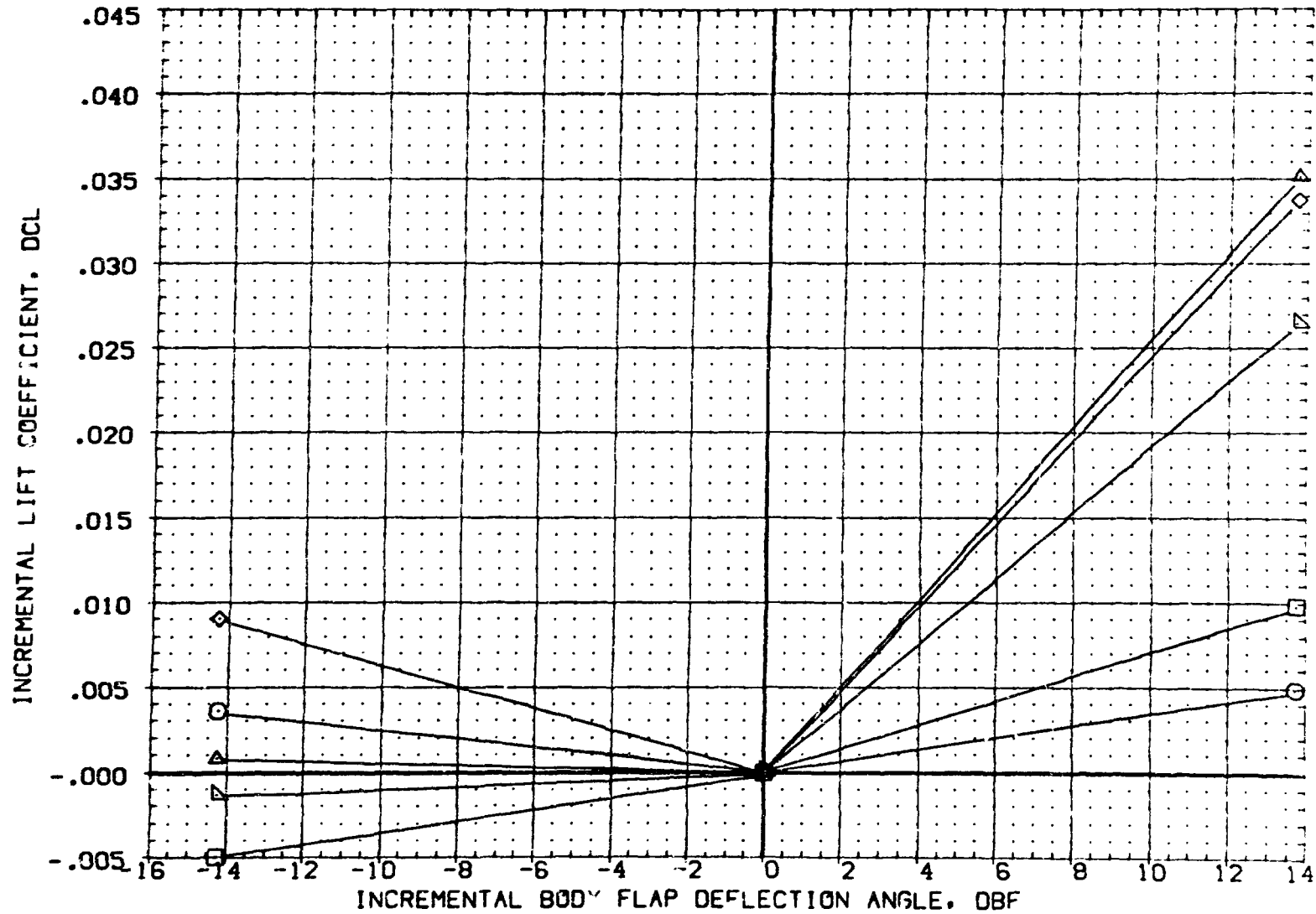


FIG. 8 BODY FLAP EFFECTS

.398 CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
	ALPHA	MACH	BETA	AILRON	DBF	DBF	DBF	SREF	SC.FT.		
○	12.000	5.200	.000	UB6012	-14.250	086010	.000	2690.0000	IN.		
□	20.000	.000	.000	UB6012	13.750			474.8000	IN.		
◇	30.000	55.000	.000	UB6011				936.6800	IN.		
△	40.000							1076.4800	IN.		
▽	50.000							.0000	IN.		
								400.0000	IN.		
								.0100	SCALE		

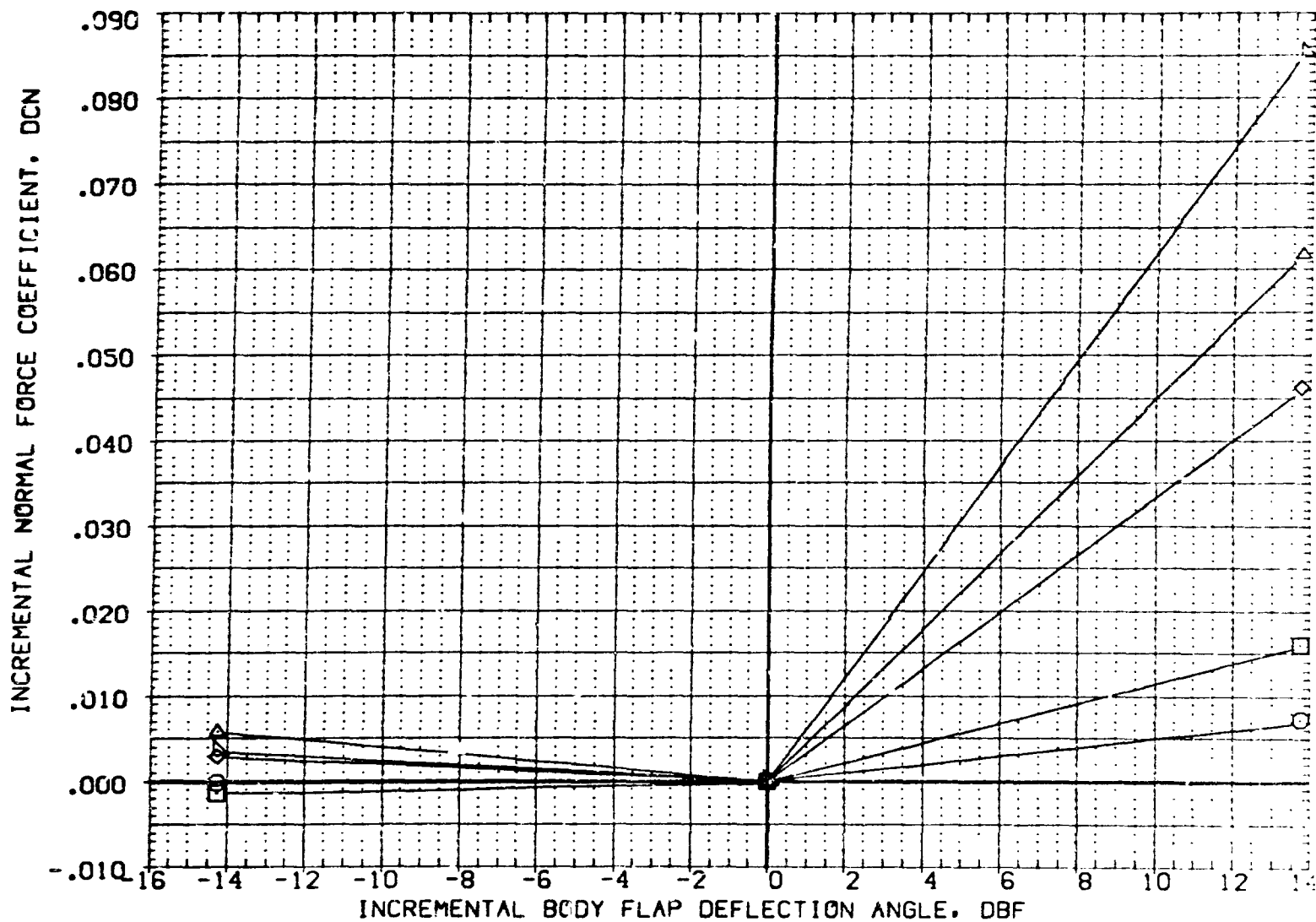


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION			
○	12.000		7.200	BETA	.000	UB6012	DBF	-14.250	DBF	SREF	2690.0000	50. FT.
□	20.000	ELEVON	.000	AILERON	.000	UB6012				LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011				BREF	936.6800	IN.
△	40.000									XHRP	1076.4800	IN.
▽	50.000									YHRP	.0000	IN.
										ZHRP	400.0000	IN.
										SCALE	.0100	SCALE

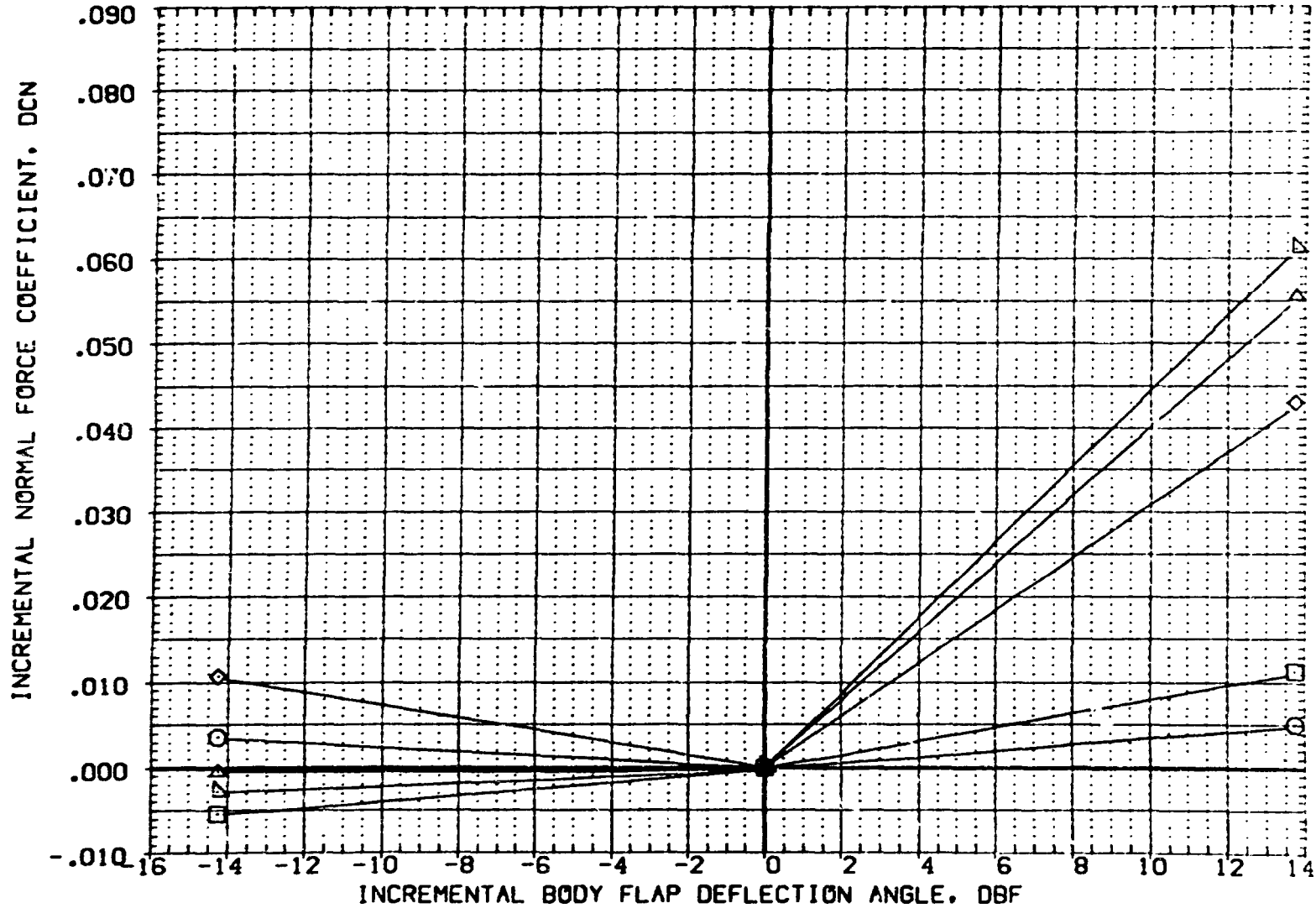


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 319 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA		DBF	DATASET	DBF	SREF	SCALE	
○	12.000		5.200	BETA	.000	UB6012	-14.250	2690.0000	.0100	SC.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	474.8000		IN.
◇	30.000	SPOBRK	55.000	RUDER	.000	UB6011	13.750	936.6800		IN.
△	40.000							1076.4800		IN.
▽	50.000							400.0000		IN.
								SCALE		SCALE

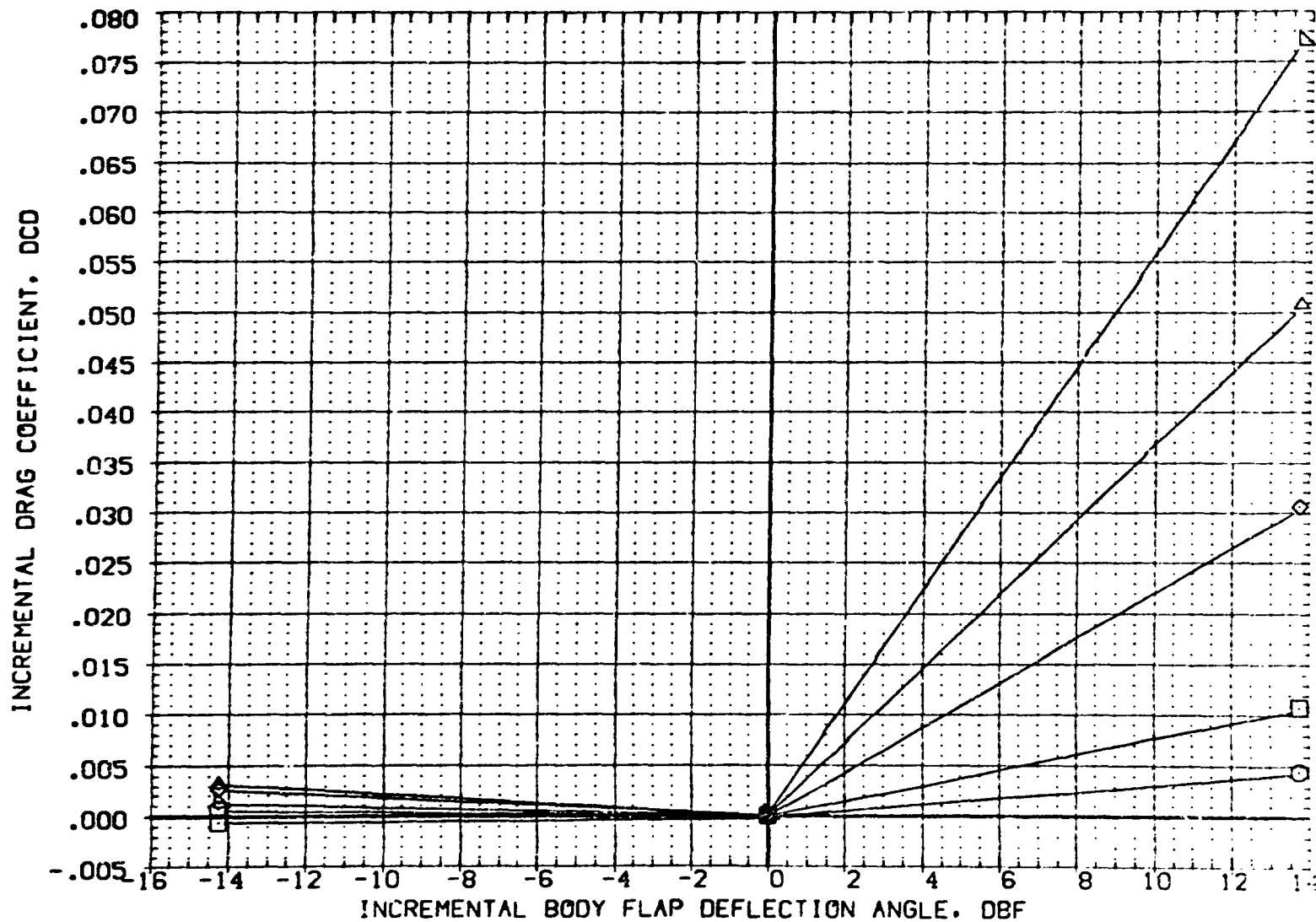


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION								
		MACH	BETA	AILRON	FLUDER	DBF	DBF	DBF	SREF	LREF	BREF	XMRP	YMRP	ZMRP	SCALE	SQ.FT.	
○	12.000	7.200	.000	.000	.000	UB6012	-14.250	086010	.000	2690.0000	474.8000	936.6800	1076.4800	.0000	400.0000	.0100	IN.
□	20.000																IN.
◇	30.000																IN.
△	40.000																IN.
▽	50.000																IN.

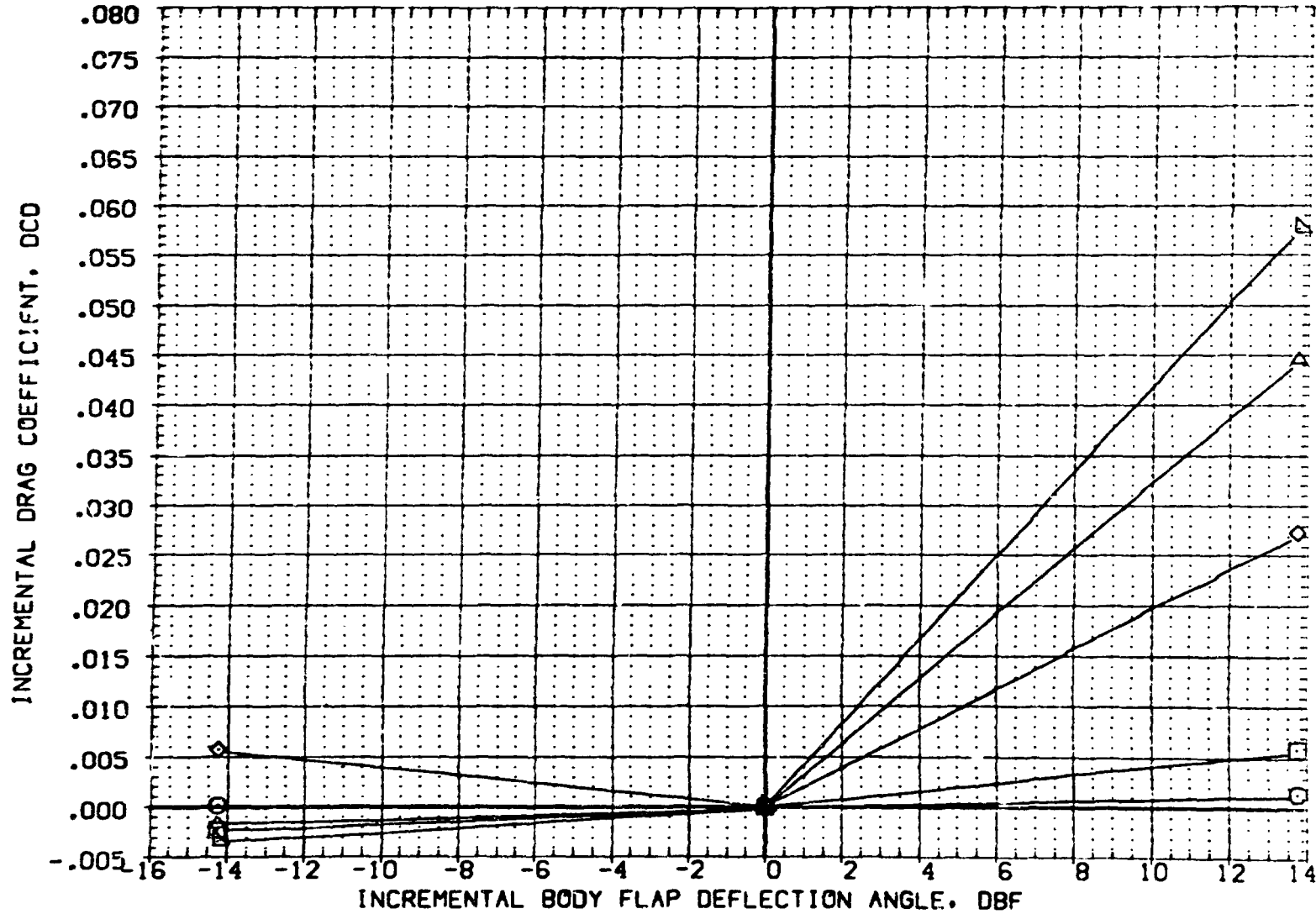


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 819 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION		
○	12.000		5.200	BETA	.000	DATASET	DBF	SREF	2690.0000	SCALE
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750	BREF	936.6800	IN.
△	40.000							XMRP	1076.4800	IN.
▽	50.000							YMRP	.0000	IN.
								ZMRP	400.0000	IN.
								SCALE	.0100	SCALE

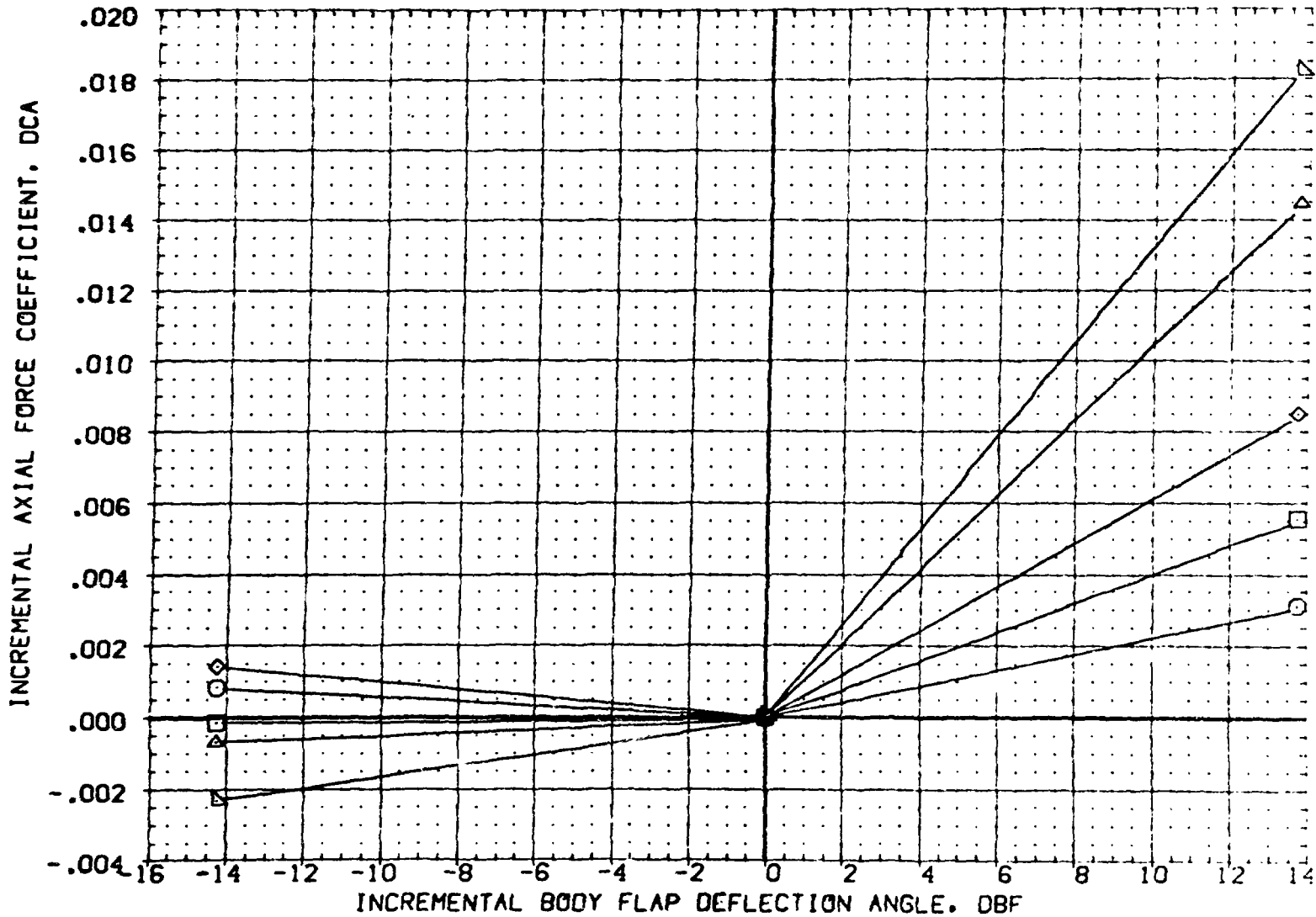


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
○	12.000		7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILERON	.000	UB6012	-14.250	086010	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

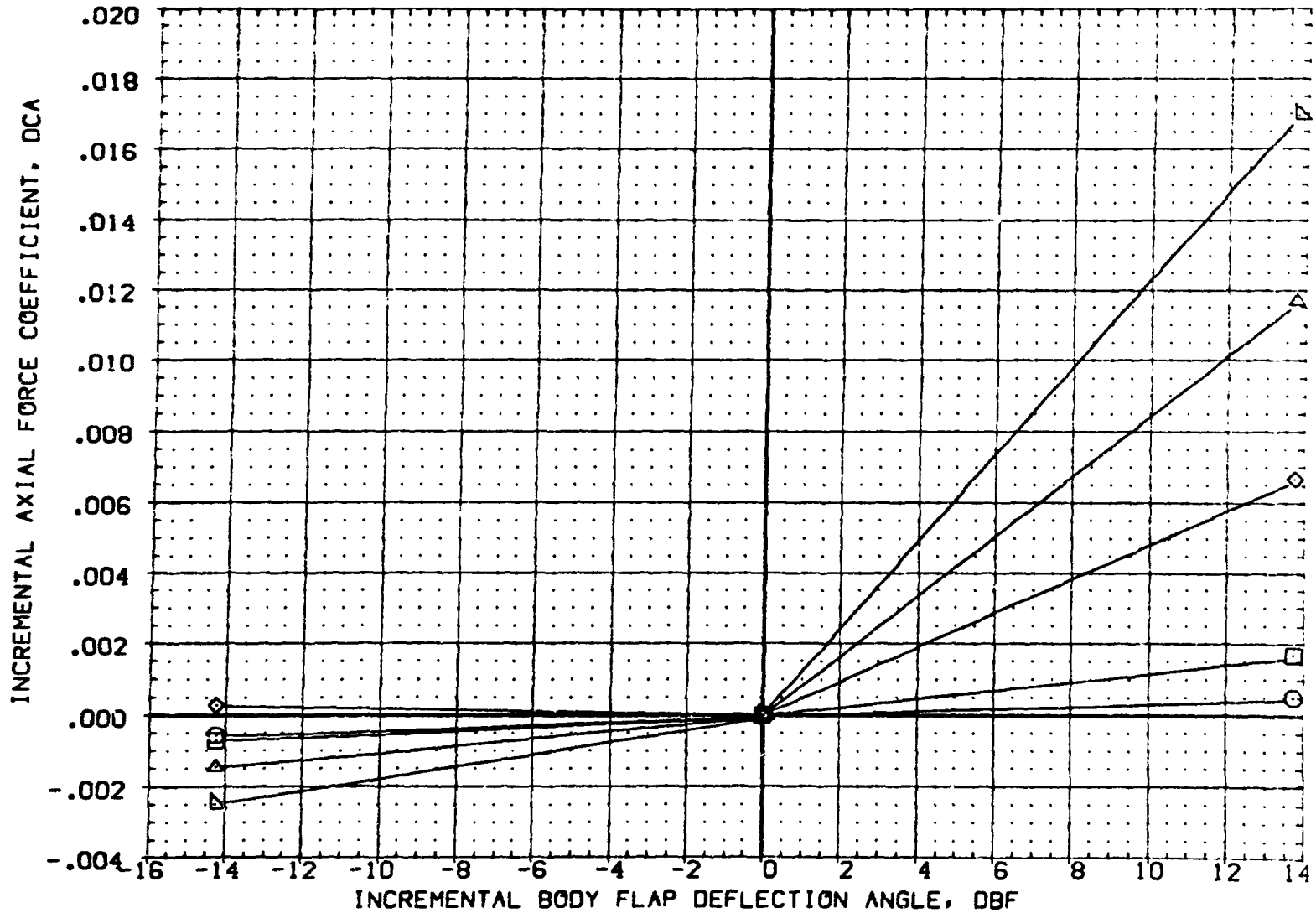


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	12.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2650.0000	50. FT.
○	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	086010	.000	LREF	474.8000	IN.
□	30.000	SPDRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

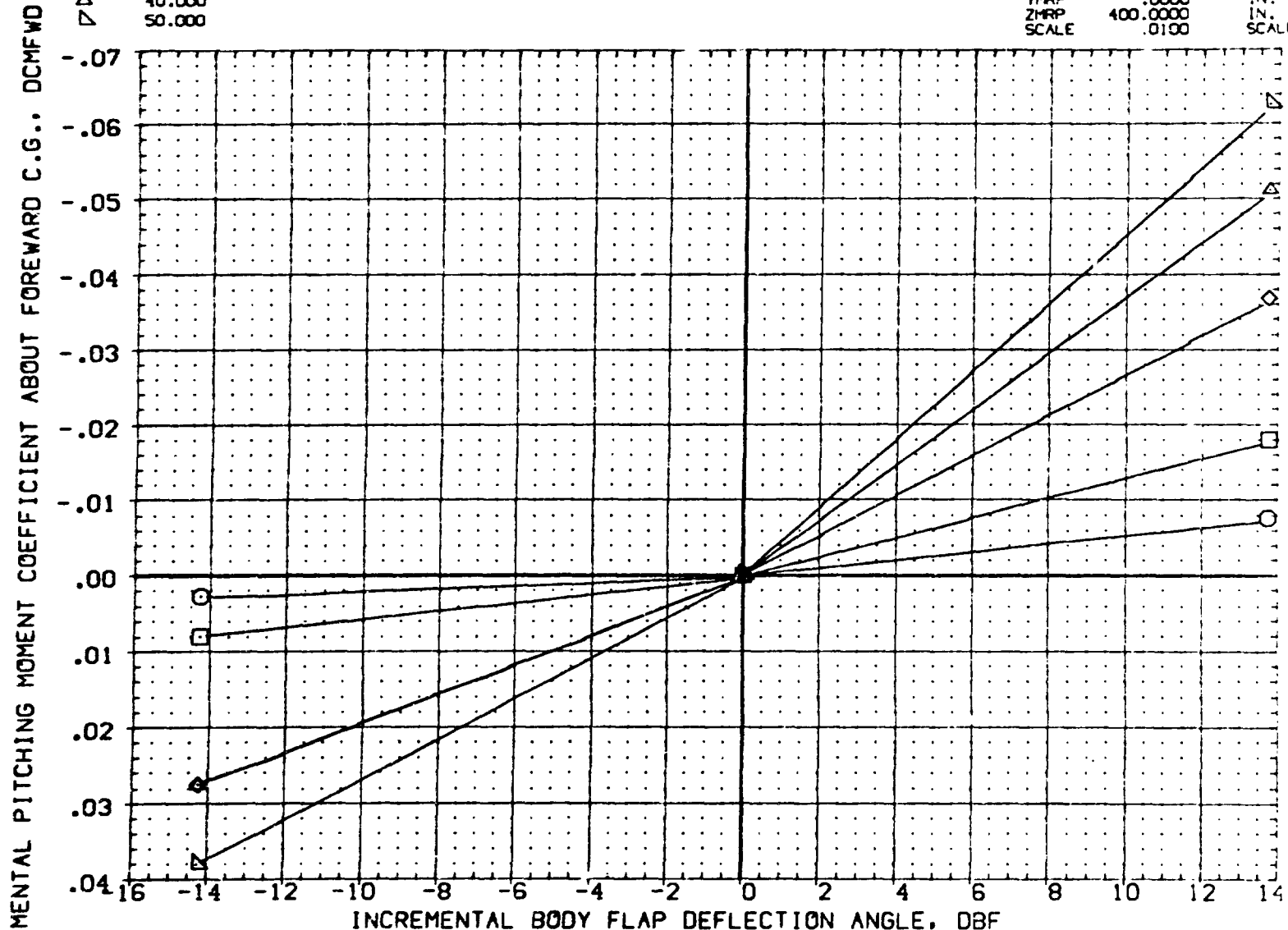


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION		
○	12.000		7.200	BETA	.000	DATASET	DBF	SREF	2690.0000	50.FT.
□	20.000	ELEVON	.000	AILRON	.000	UB6012	-14.250	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6011	13.750	BREF	936.6800	IN.
△	40.000							XMRP	1076.4800	IN.
▽	50.000							YMRP	.0000	IN.
								ZMRP	400.0000	IN.
								SCALE	.0100	SCALE

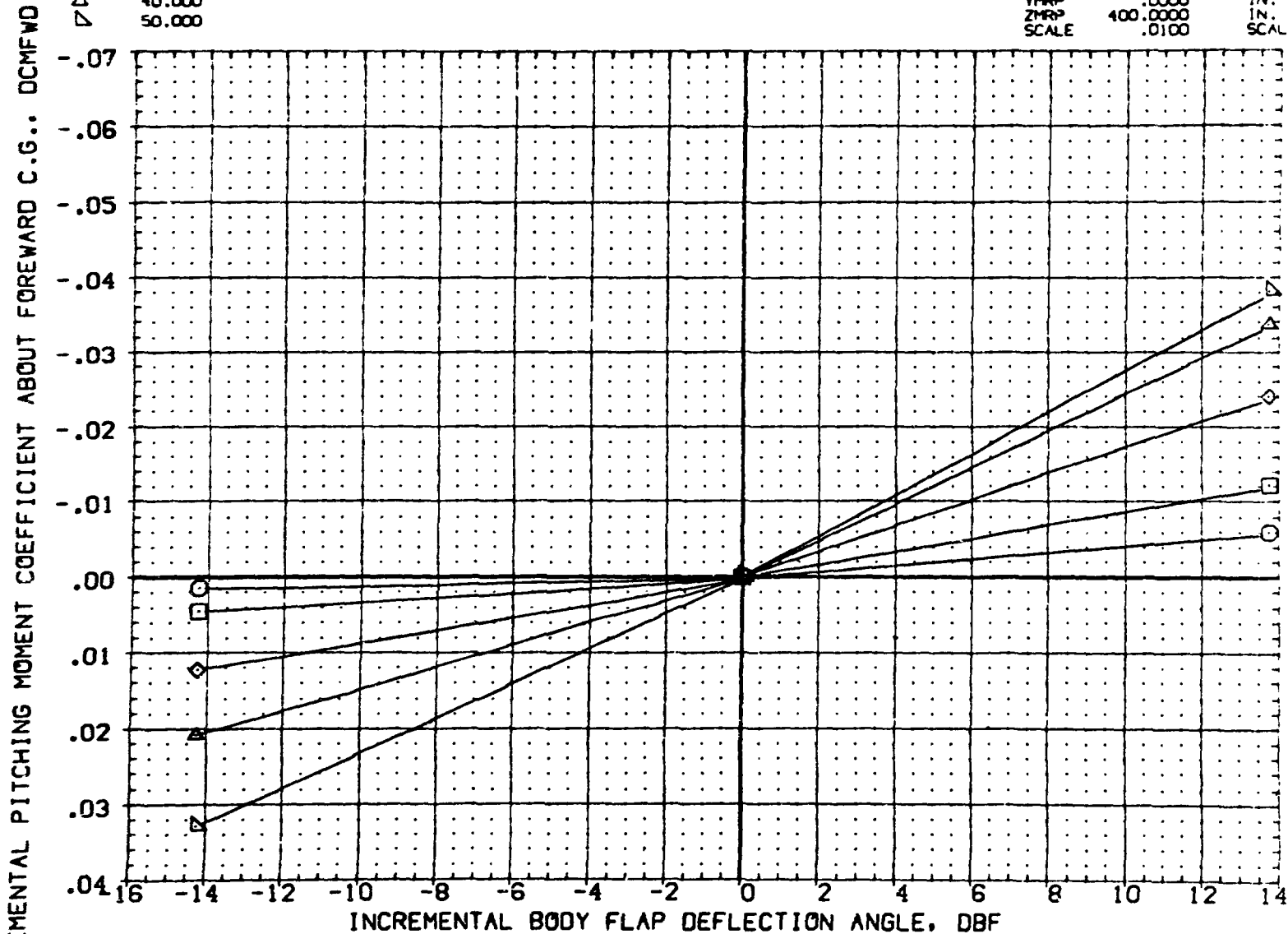


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

SYMBOL	ALPHA		PARAMETRIC VALUES		DATA SOURCE			REFERENCE INFORMATION				
	12.000	MACH	5.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
○	20.000	ELEVON	.000	AILERON	.000	UB6012	-14.250	DB6010	.000	LREF	474.8000	IN.
□	30.000	SPDBRK	55.000	RUDDER	.000	UB6011	13.750			BREF	936.6800	IN.
◇	40.000									XMRP	1076.4800	IN.
△	50.000									YMRP	.0000	IN.
▽										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT AFT C.G.: DCMAFT

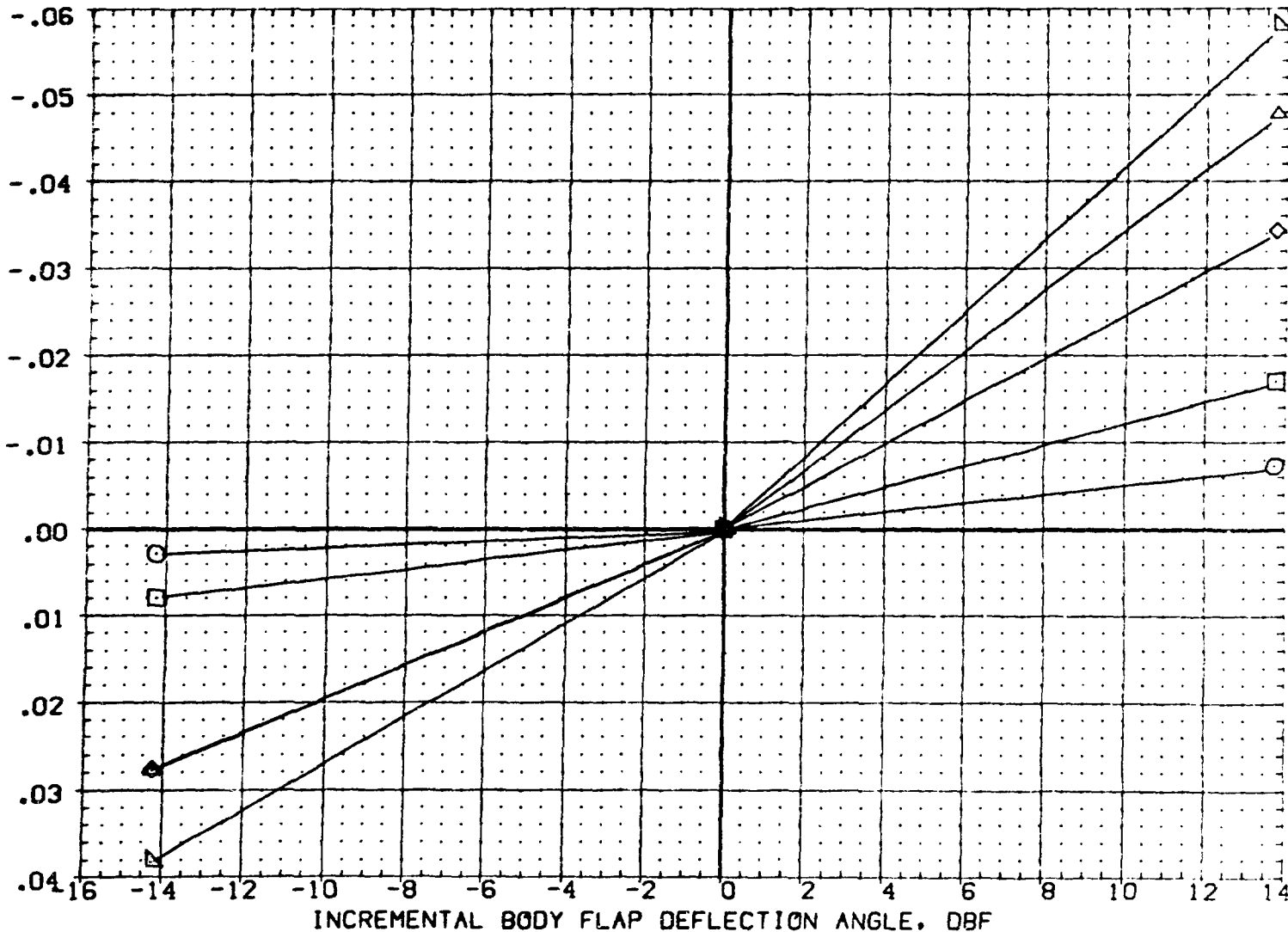


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6012)

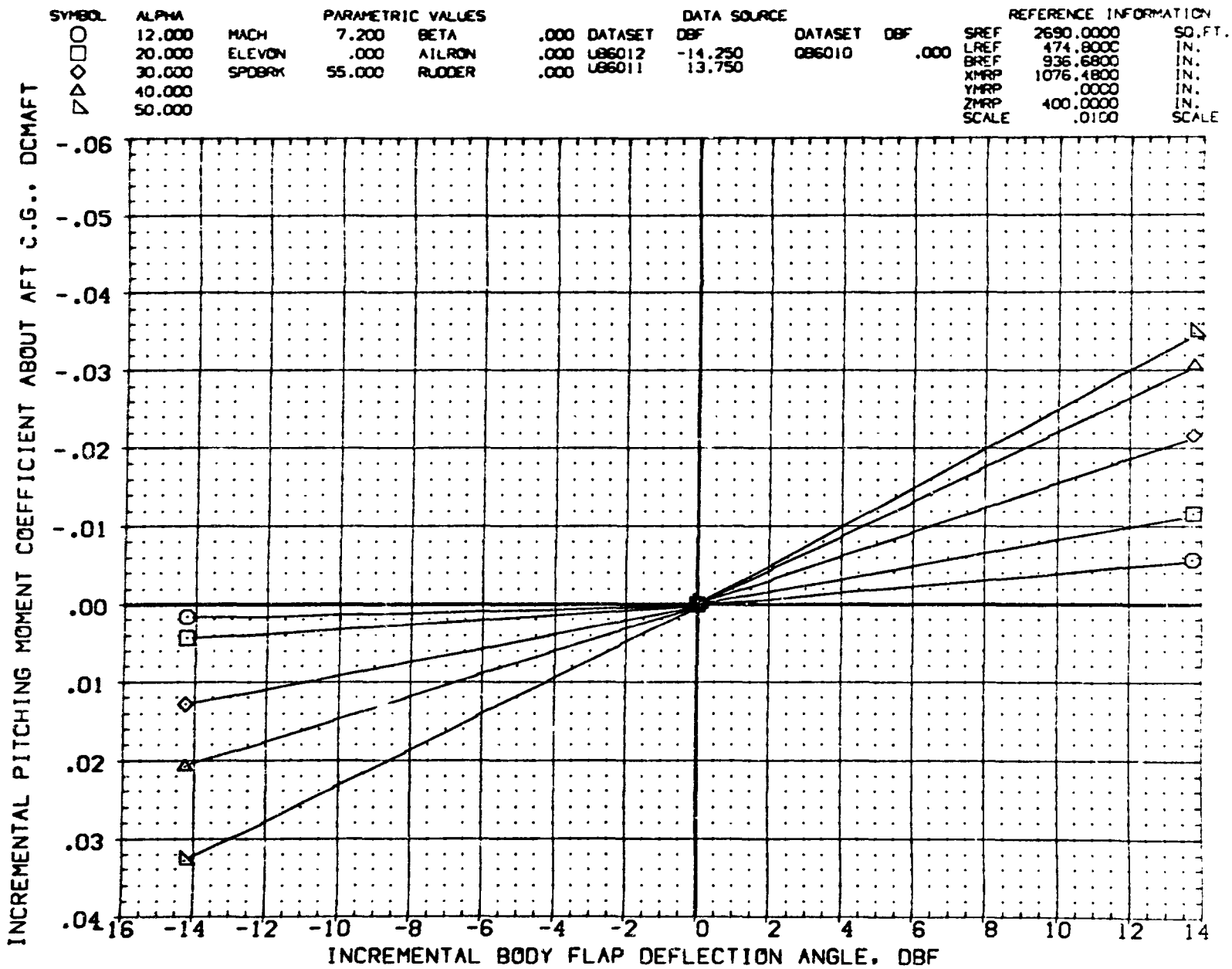


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA		PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION	
	12.000	MACH	7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SO. FT.
○	20.000	ELEVON	-40.000	AILRON	.000	UB6U18	-14.250	086017	.000	LREF	474.8000	IN.
□	30.000	SPDBRK	55.000	RUDDER	.000	UB6U16	13.750			BREF	936.6800	IN.
◇	40.000									XMRP	1076.4800	IN.
△	50.000									YMRP	.0000	IN.
▽										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

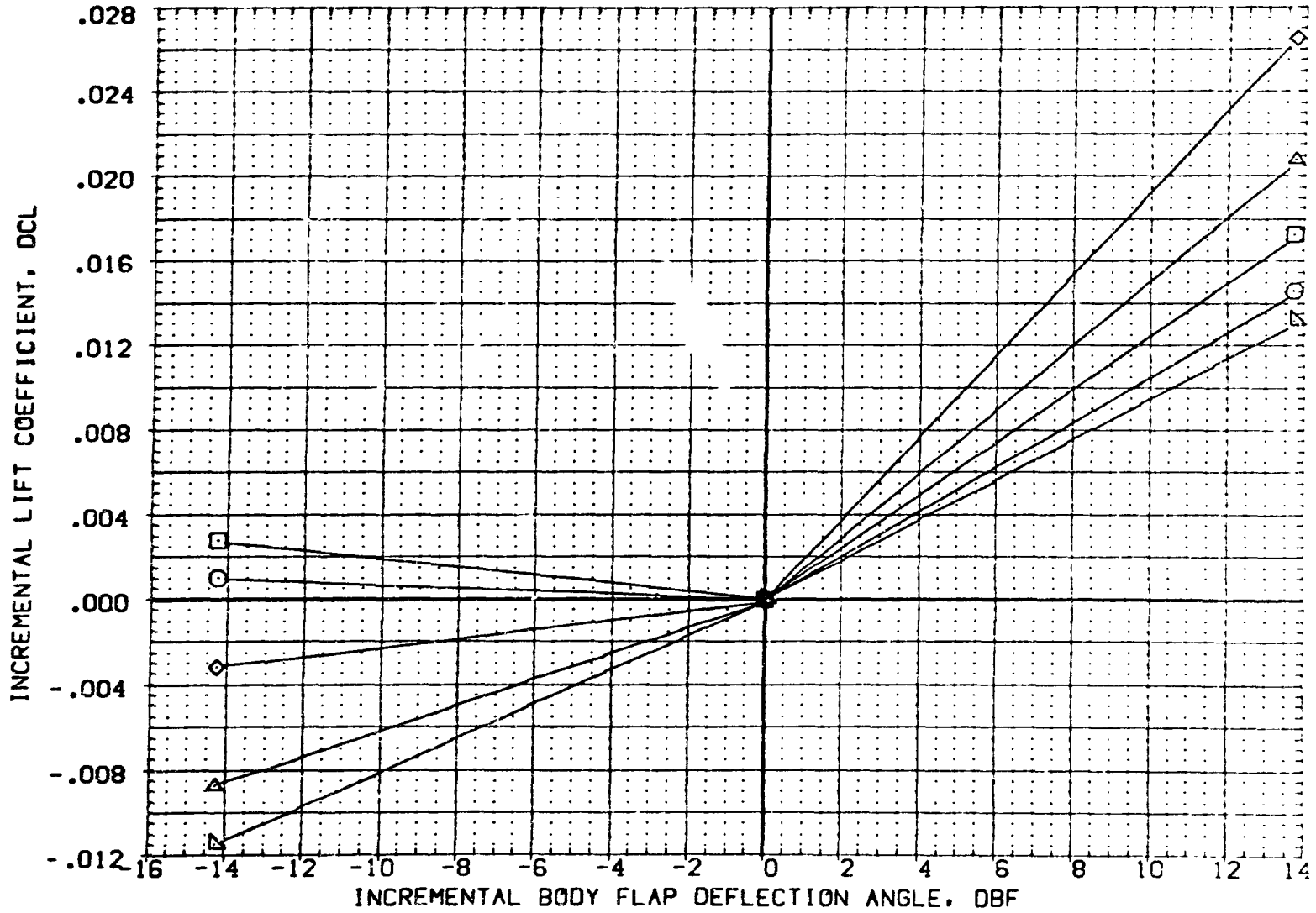


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE				REFERENCE INFORMATION			
○	12.000		7.200	BETA	.000	DATASET	DBF	DATASET	DBF	SREF	2690.0000	SQ.FT.
□	20.000	ELEVON	-40.000	AILERON	.000	UB6U18	-14.250	086017	.000	LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6U16	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

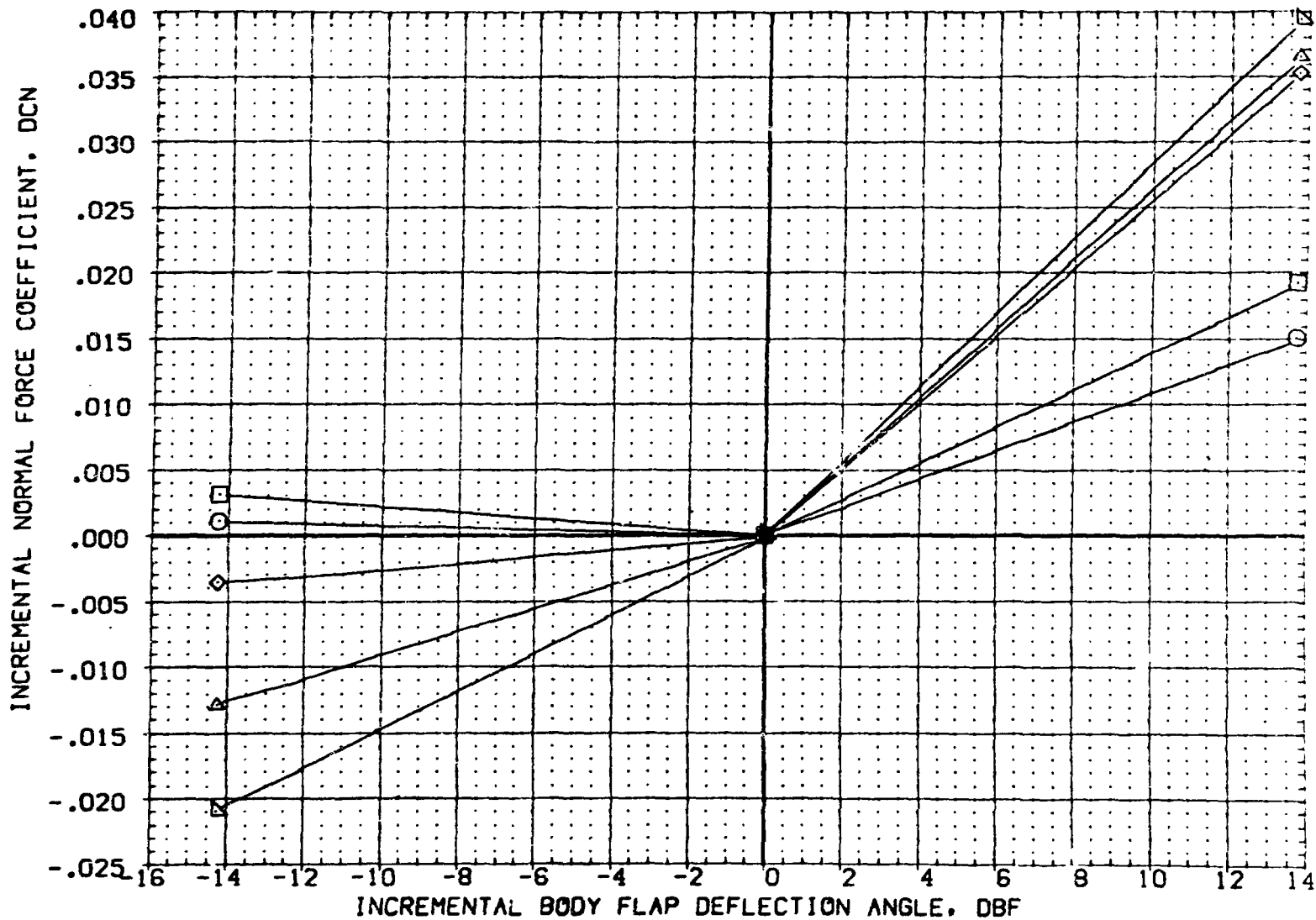


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107 (UB6U18)

SYMBOL	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
	ALPHA	MACH	BETA	AILRON	DBF	DBF	SREF	SO.F.T.		
○	12.000	7.200	.000	UB6U19	-14.250	086017	2690.0000	IN.		
□	20.000	-40.000	.000	UB6U19	13.750		474.8000	IN.		
◇	30.000	55.000	.000	UB6016			936.8900	IN.		
△	40.000						1076.4800	IN.		
▽	50.000						100.0000	IN.		
							SCALE	SCALE		
							.0100			

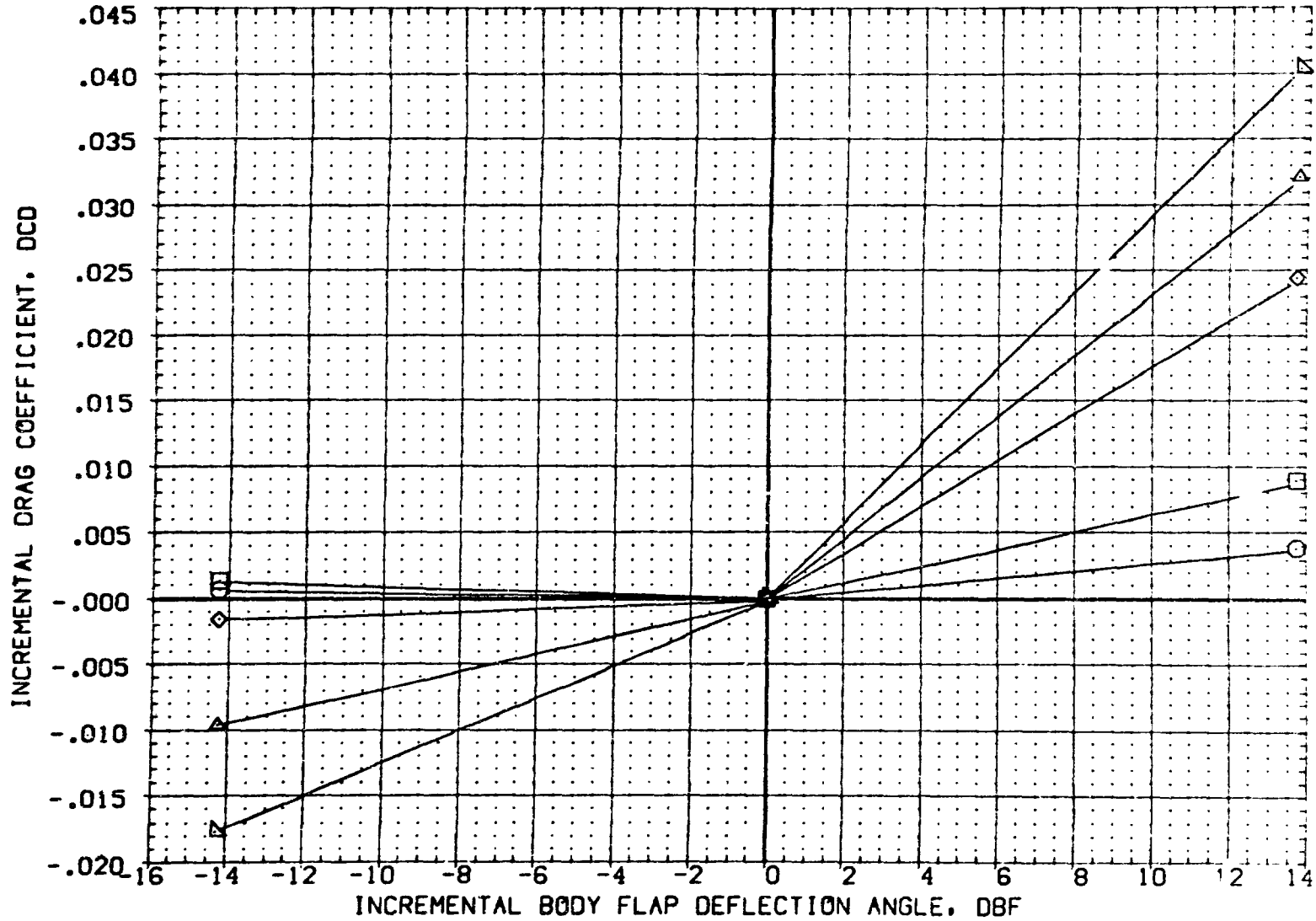


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION					
○	12.000		7.200	BETA	.000	UB6U18	DBF	086017	.000	SREF	2690.0000	SQ. FT.
□	20.000	ELEVON	-40.000	AILERON	.000	UB6U18	-14.250			LREF	474.8000	IN.
◇	30.000	SPOBRK	55.000	RUDDER	.000	UB6016	13.750			BREF	936.6800	IN.
△	40.000									XMRP	1076.4800	IN.
▽	50.000									YMRP	.0000	IN.
										ZMRP	400.0000	IN.
										SCALE	.0100	SCALE

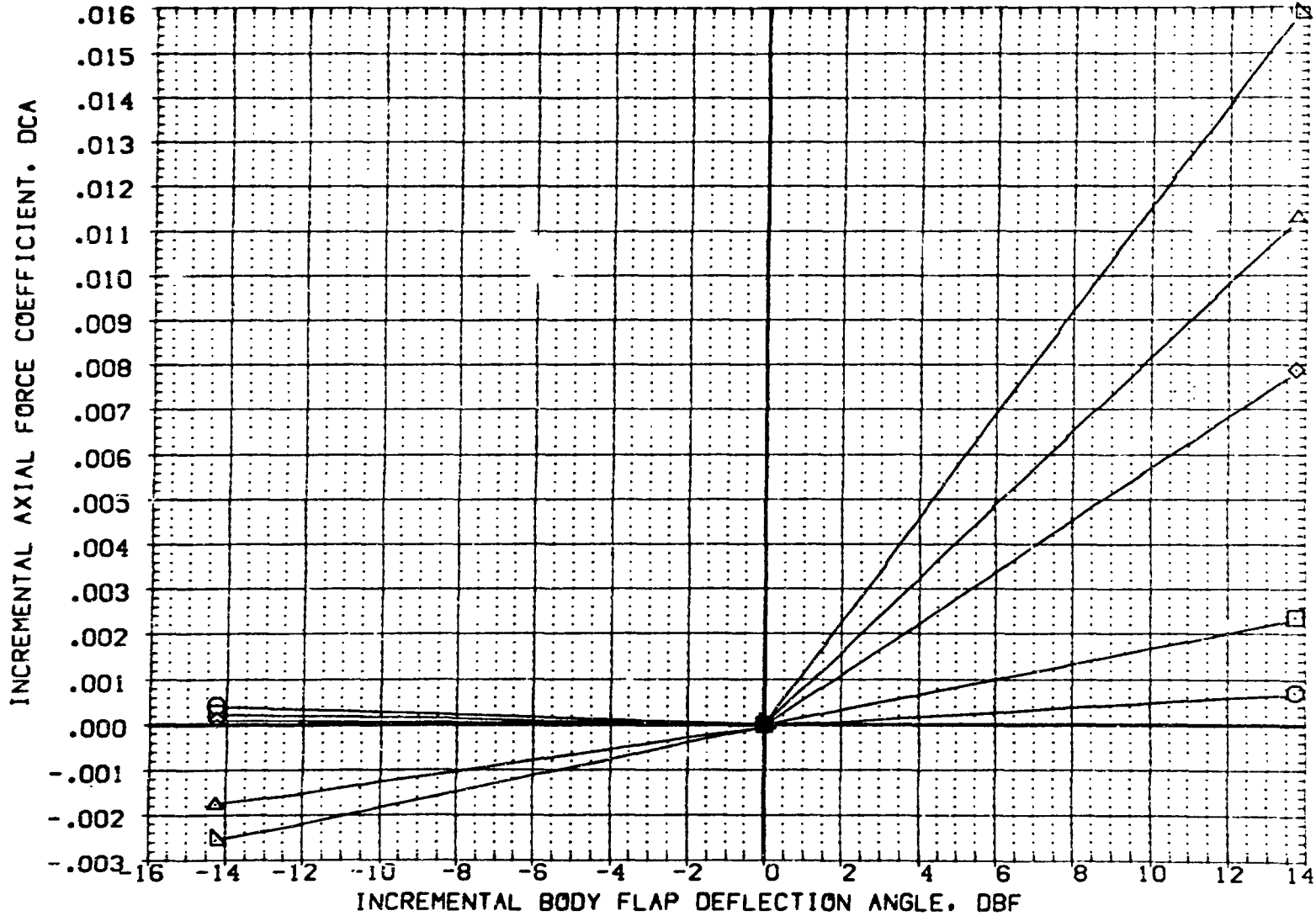


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE			REFERENCE INFORMATION		
		MACH	BETA	AILRON	RUDER	DBF	DBF	DBF	SR: F	SQ. FT.	
○	12.000	7.200	.000	.000	.000	UB6U18	-14.250	085017	.000	2690.0000	IN.
□	20.000	-40.000	.000	.000	.000	UB6U18	13.750			474.8000	IN.
◇	30.000	55.000	.000	.000	.000	UB6016				936.6800	IN.
△	40.000									1076.4800	IN.
▽	50.000									.0000	IN.
										400.0000	IN.
										.0100	SCALE

INCREMENTAL PITCHING MOMENT COEFFICIENT ABOUT FOREWARD C.G., DCIFWD

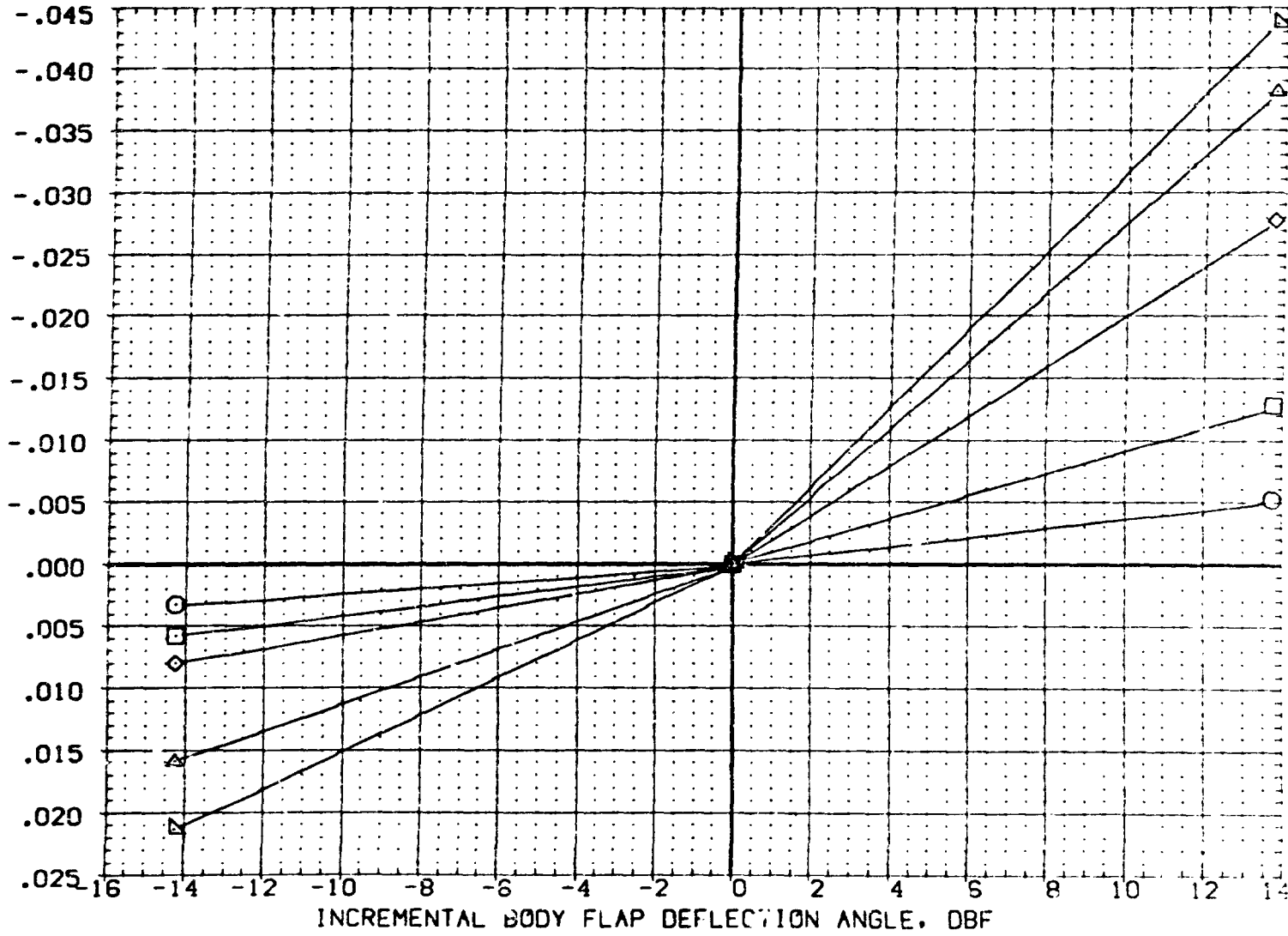


FIG. 8 BODY FLAP EFFECTS 139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(UB6U18)

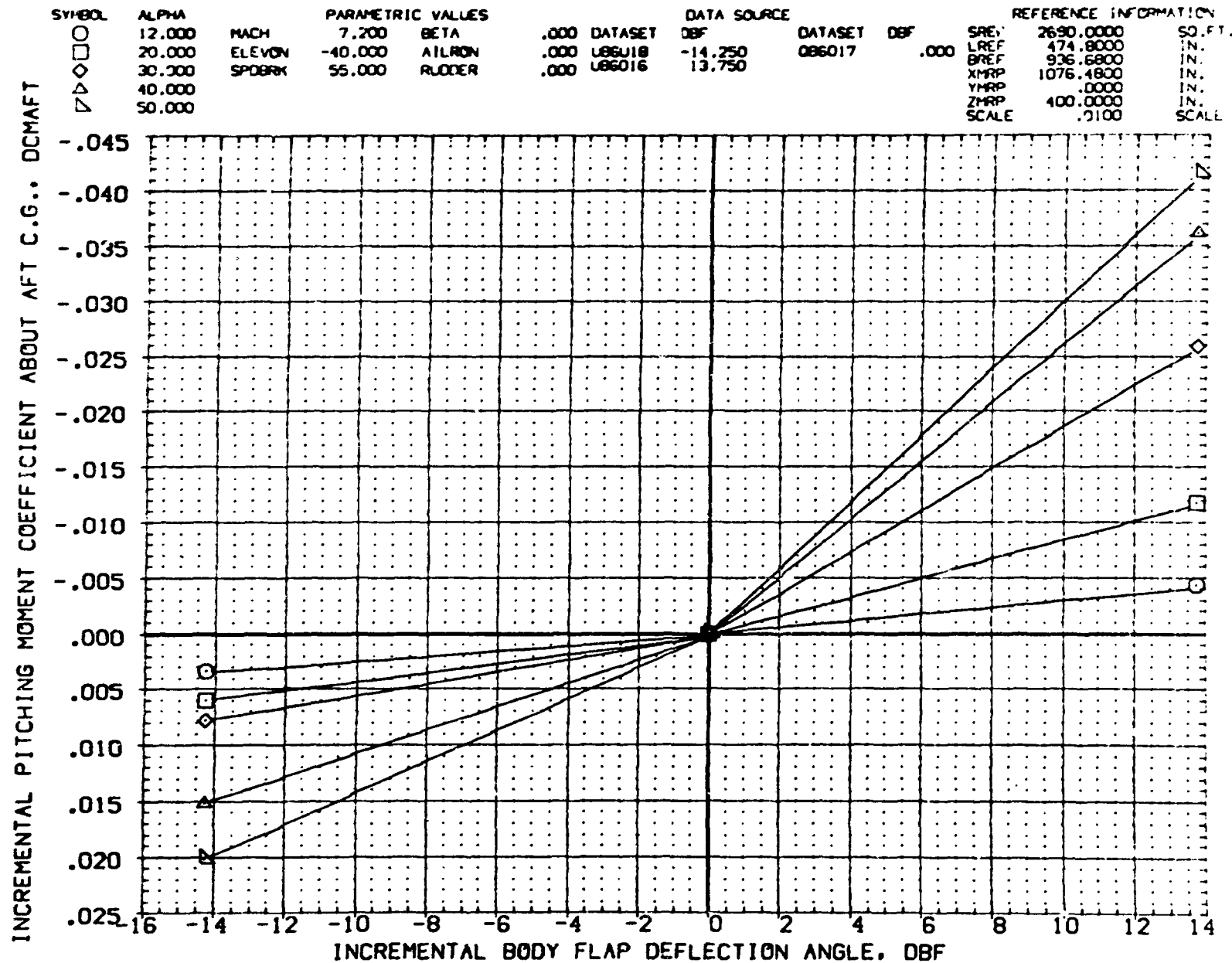


FIG. 8 BODY FLAP EFFECTS

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886025)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(886012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(886032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 936.0000 IN.
(886033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMZP 1076.0000 IN.
						YMZP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

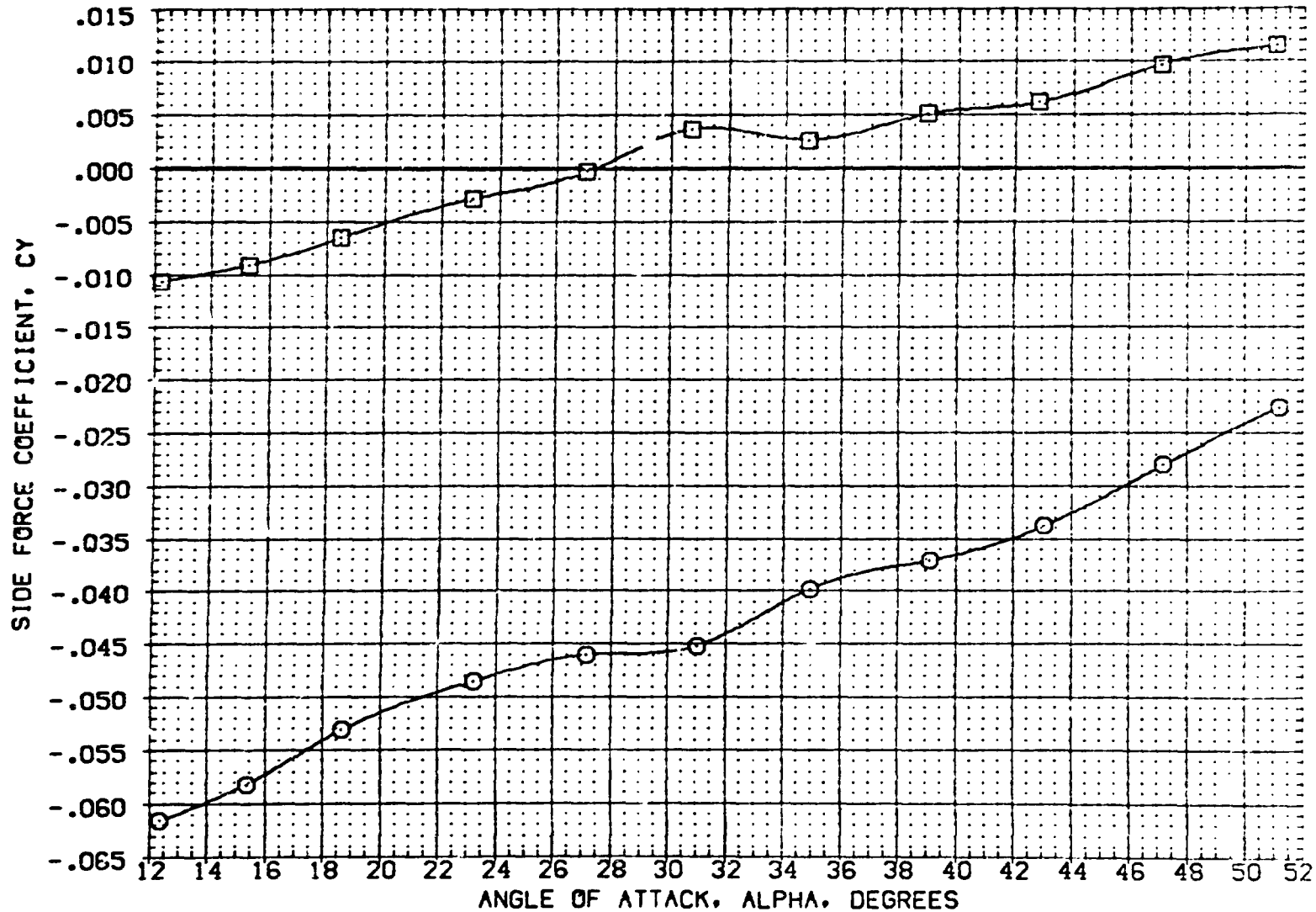


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A) MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B06825)	AMES3.5-168 0A23 B19 C7 E23 FS H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B06012)	AMES3.5-168 0A23 B19 C7 E23 FS H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(B06032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 936.6000 IN.
(B06033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

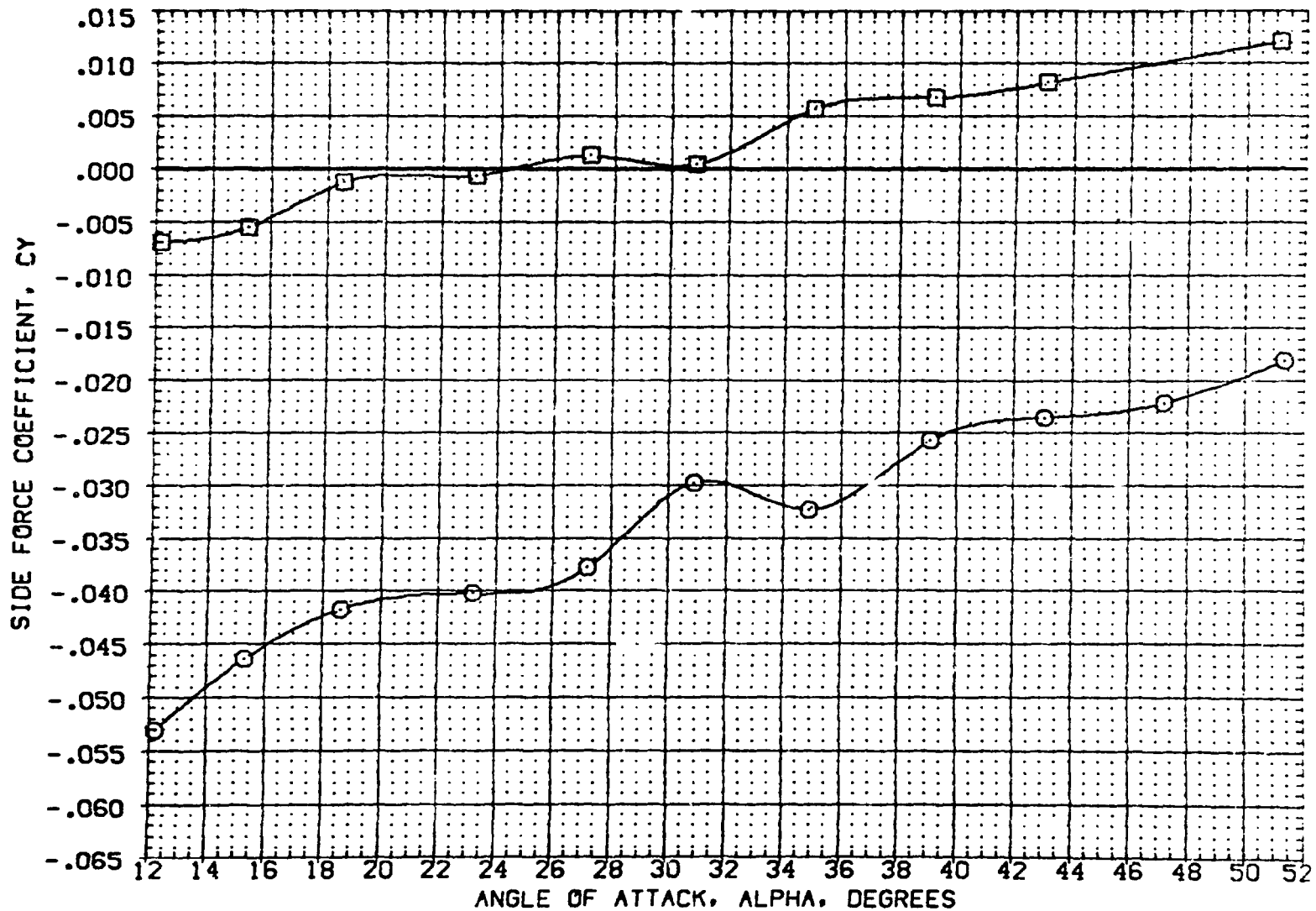


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDRK	RUDDER	REFERENCE INFORMATION
(B66825)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B66012)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(B66032)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	BREF 936.0000 IN.
(B66033)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

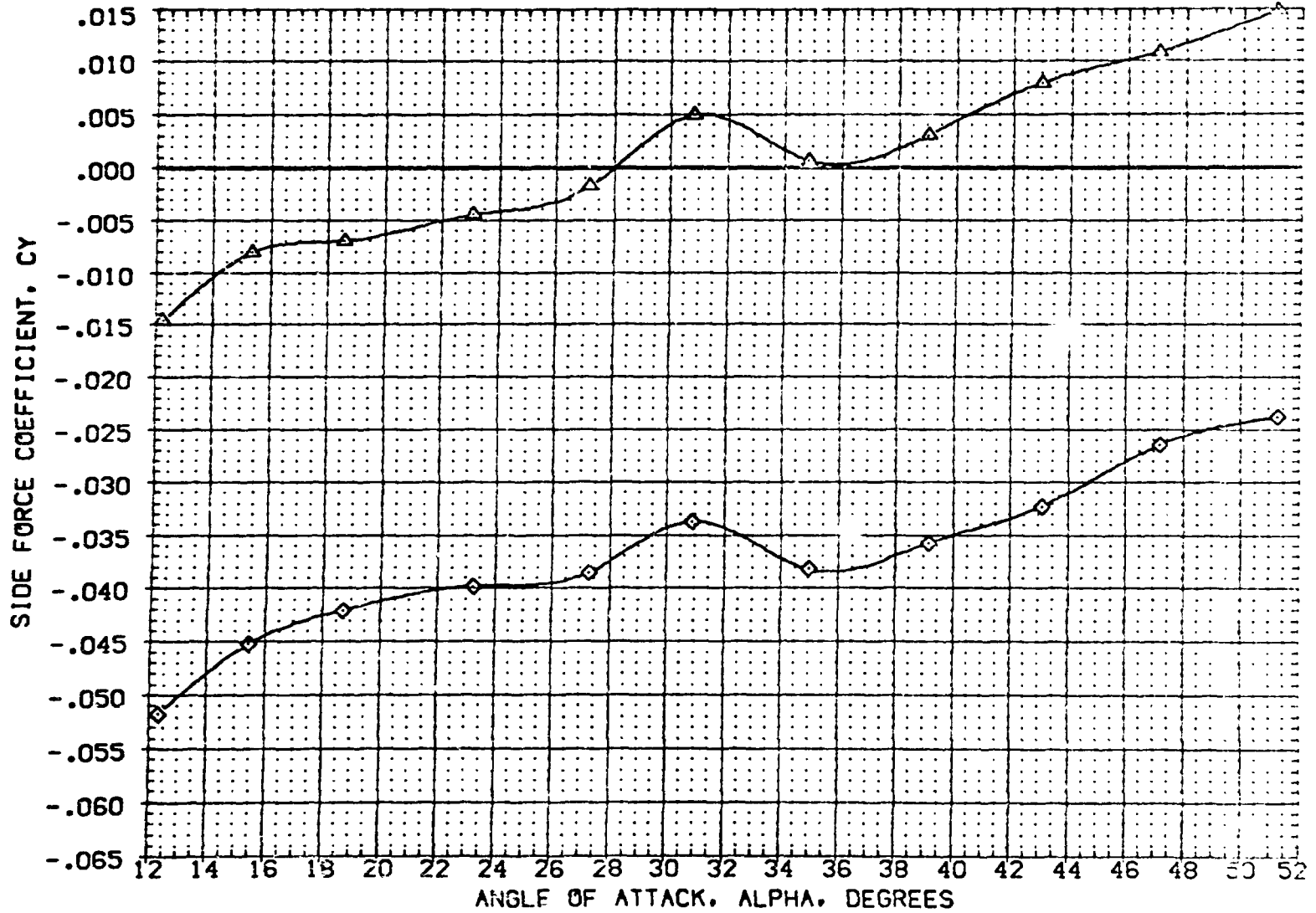


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (C)MACH = 10.29 PAGE 556

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(BB6825)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(BB6012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(BB6032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 936.0000 IN.
(BB6033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

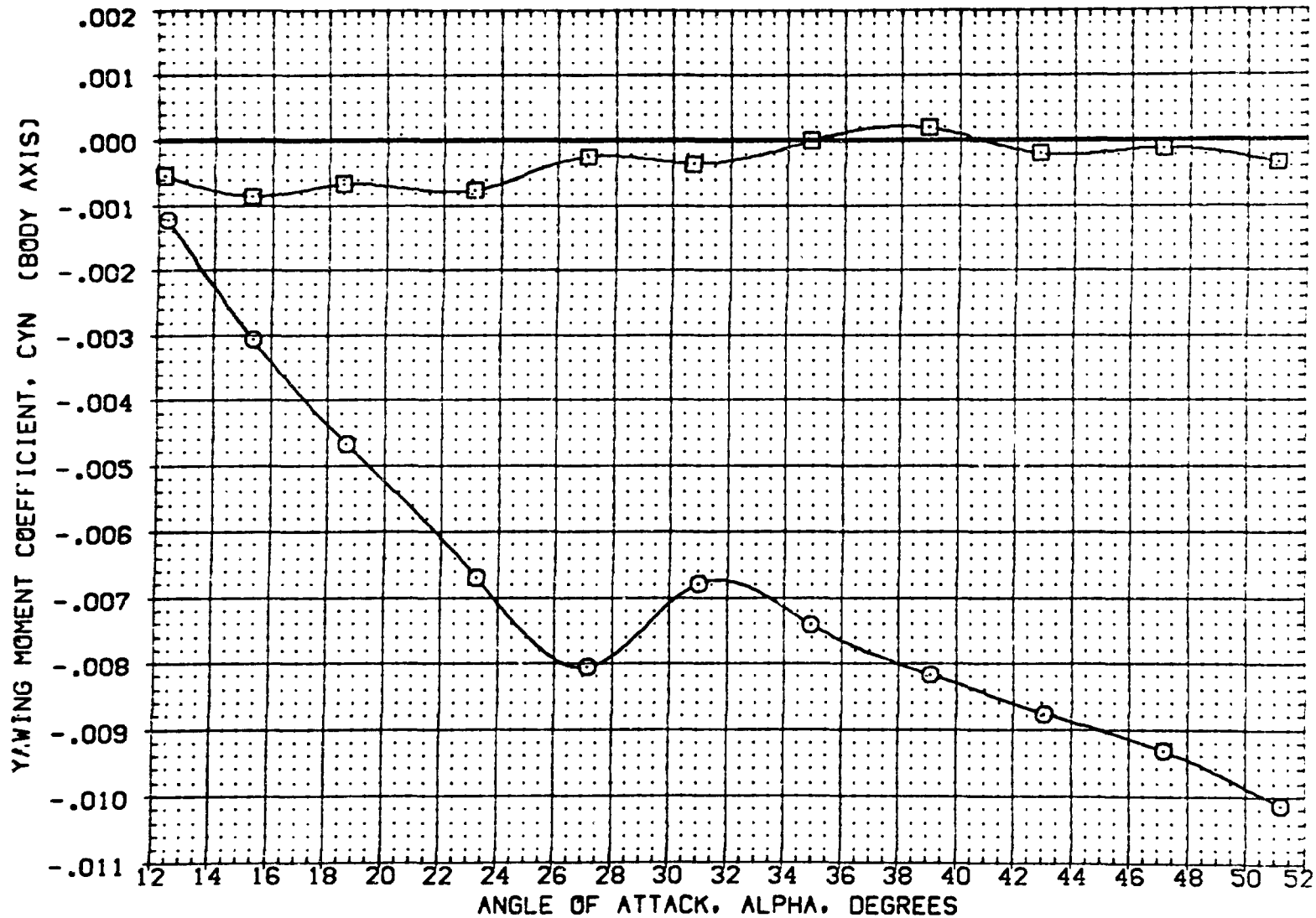


FIG. 9 SIDESLIP EFFECTS
(A)MACH = 5.26

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDRK	RUDDER	REFERENCE INFORMATION
(886025)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(886012)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(886032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 936.0000 IN.
(886033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE



FIG. 9 SIDESLIP EFFECTS
(B)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(B86825)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B86012)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	LREF 474.0000 IN.
(B86032)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	BREF 935.6800 IN.
(B86033)	AMES3.5-168 0A23 B19 C7 E23 F5 H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	XMRP 1076.0000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

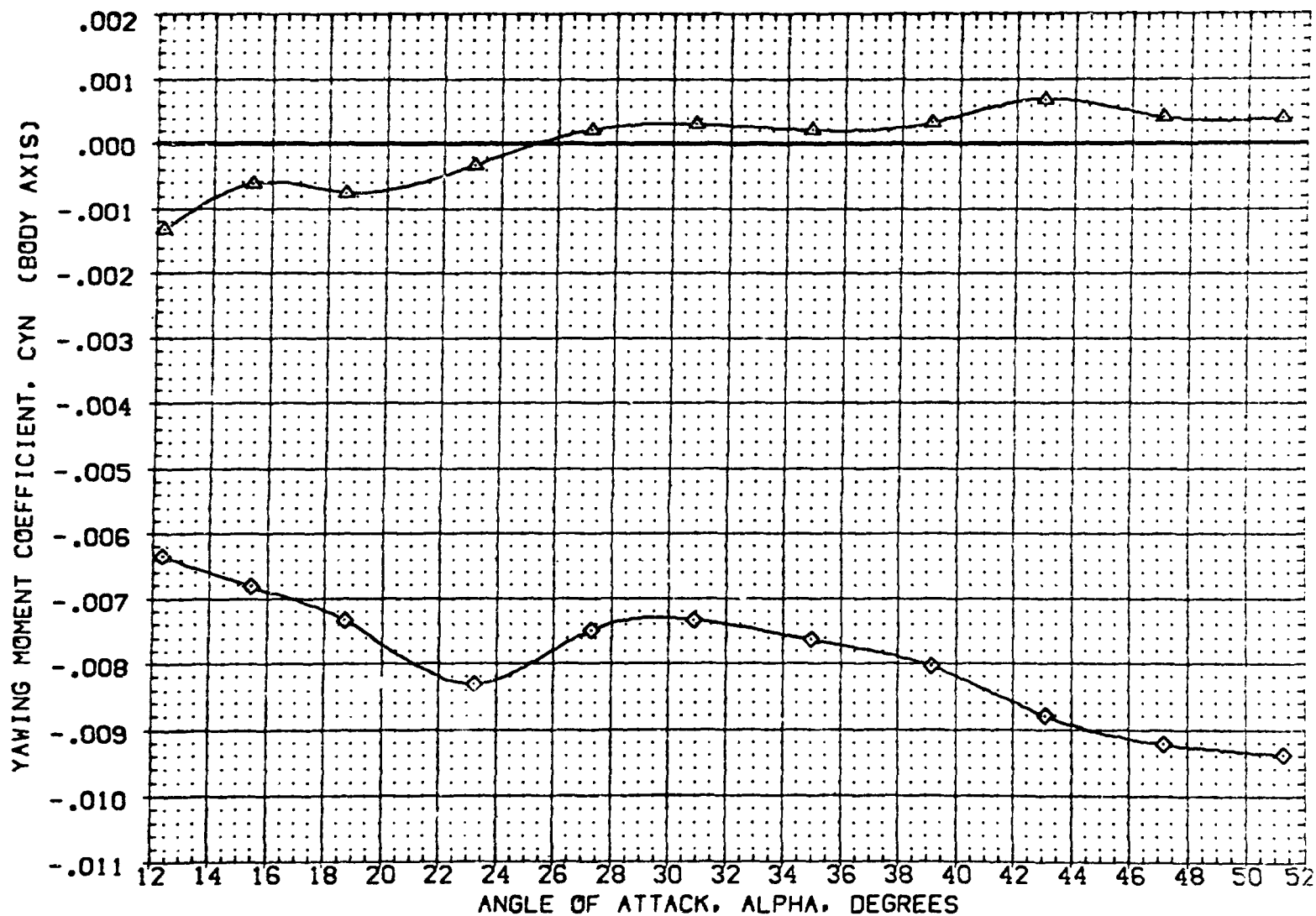


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (C)MACH = 10.29

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B96B25)	AMES3,5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B96012)	AMES3,5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.6000 IN.
(B96032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 936.6000 IN.
(B96033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMYP 1076.4000 IN.
						YMYP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

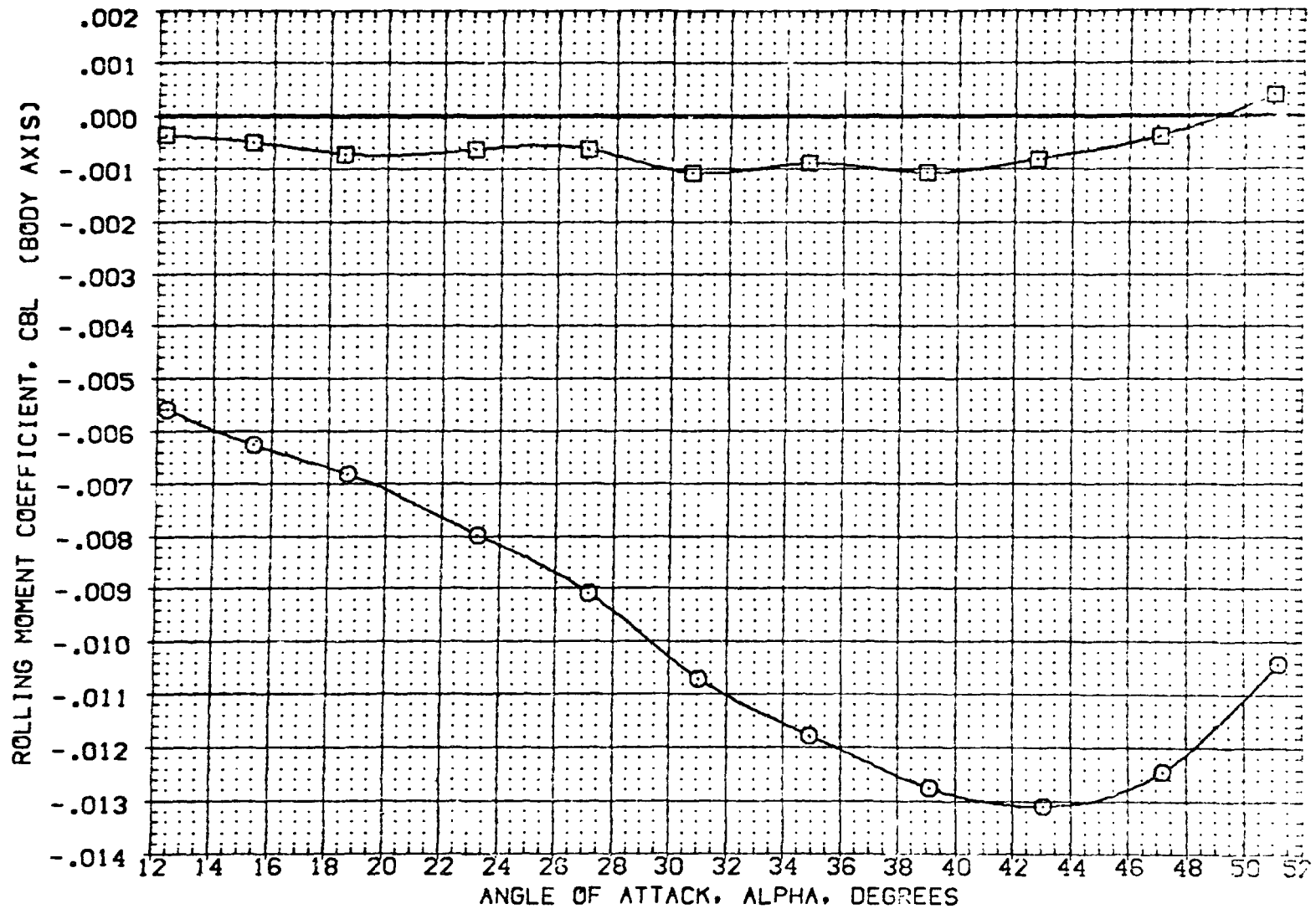


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 5.26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPOILER	RUDER	REFERENCE INFORMATION
(B66825)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ.FT.
(B66012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	LREF 474.0000 IN.
(B66032)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	BREF 905.0000 IN.
(B66033)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

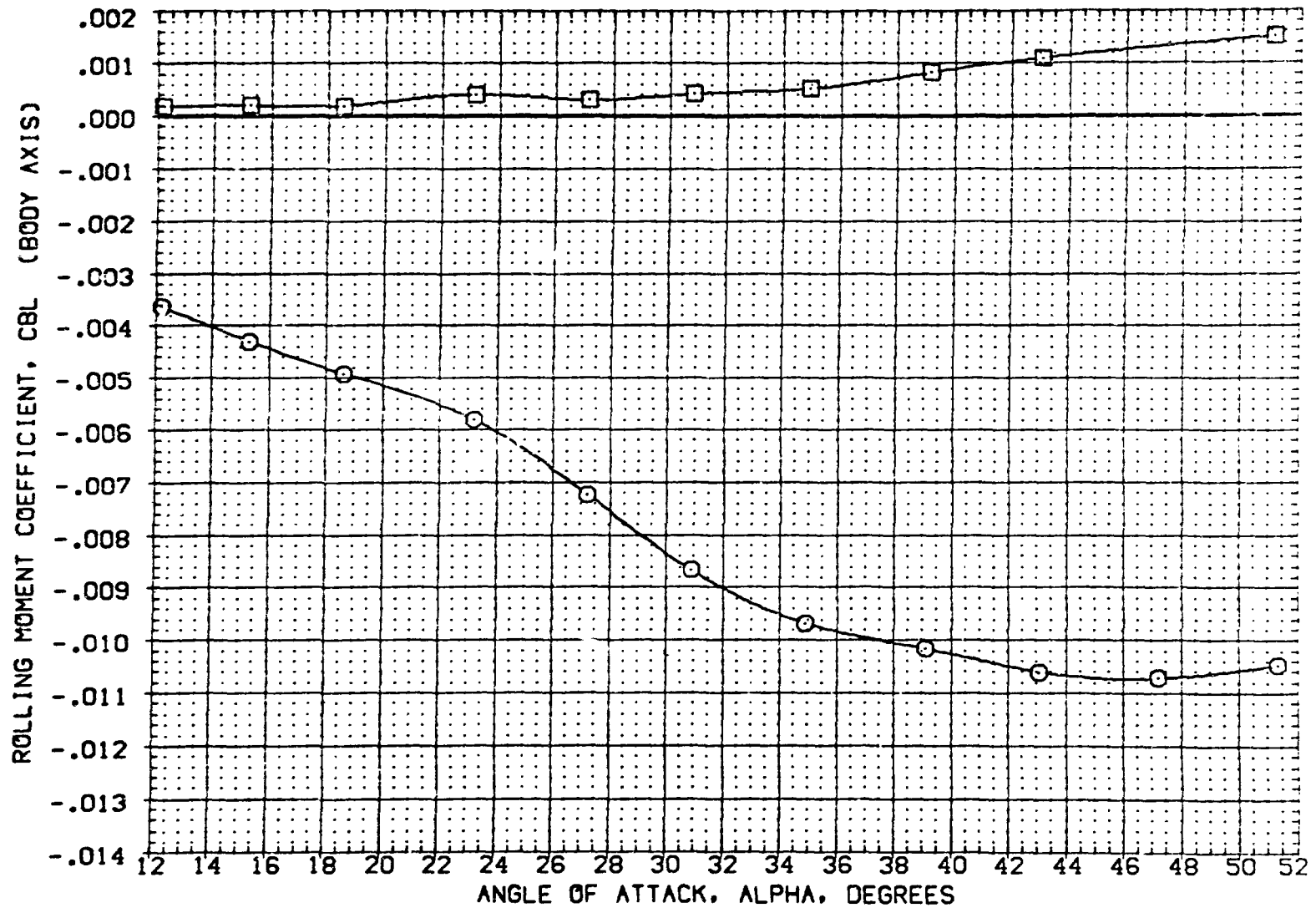


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
(B)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	BOFLAP	SPDYRK	RUDDER	REFERENCE INFORMATION
(B86825)	DATA NOT AVAILABLE	5.000	-14.250	55.000	.000	SREF 2690.0000 SQ. FT.
(B86012)	DATA NOT AVAILABLE	.000	-14.250	55.000	.000	LREF 474.8000 IN.
(B86032)	AMES3.5-158 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	5.000	-14.250	55.000	.000	EREF 336.6000 IN.
(B86033)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

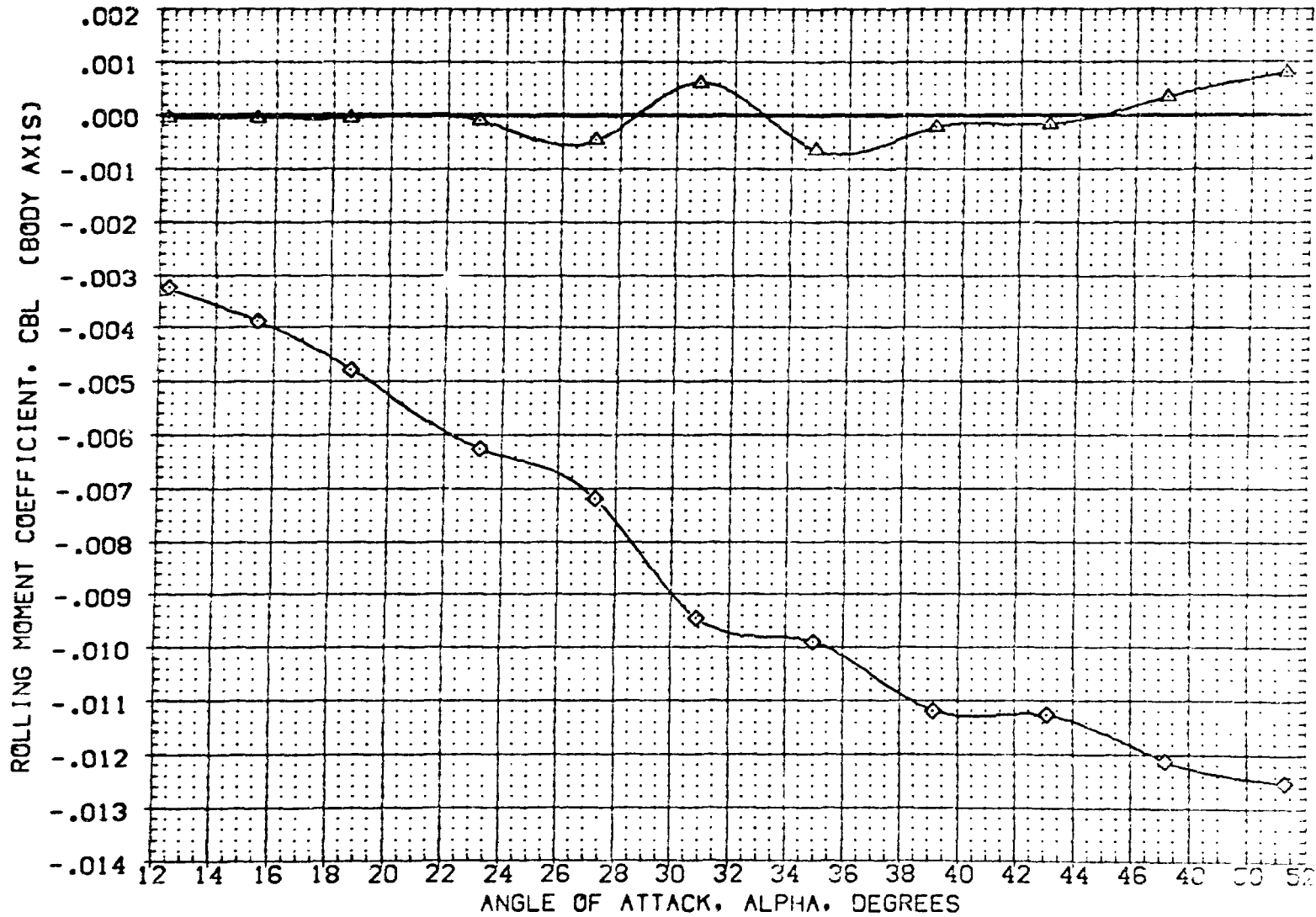
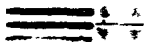


FIG. 9 SIDESLIP EFFECTS 139B CONFIGURATION (0.010-SCALE).
 (C)MACH = 10.29



AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(VB6025)

SYMBOL	MACH	PARAMETRIC VALUES
○	5.200	DBETA 5.000 CLEVON .000
□	7.200	AILRON .000 BOFLAP -14.250
◇	10.200	SPOBRK *5.000 RUDDER .000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	474.8000 IN.
BREF	936.6000 IN.
XMRP	1076.4000 IN.
YMRP	.0000 IN.
ZMRP	400.0000 IN.
SCALE	.0100 SCALE

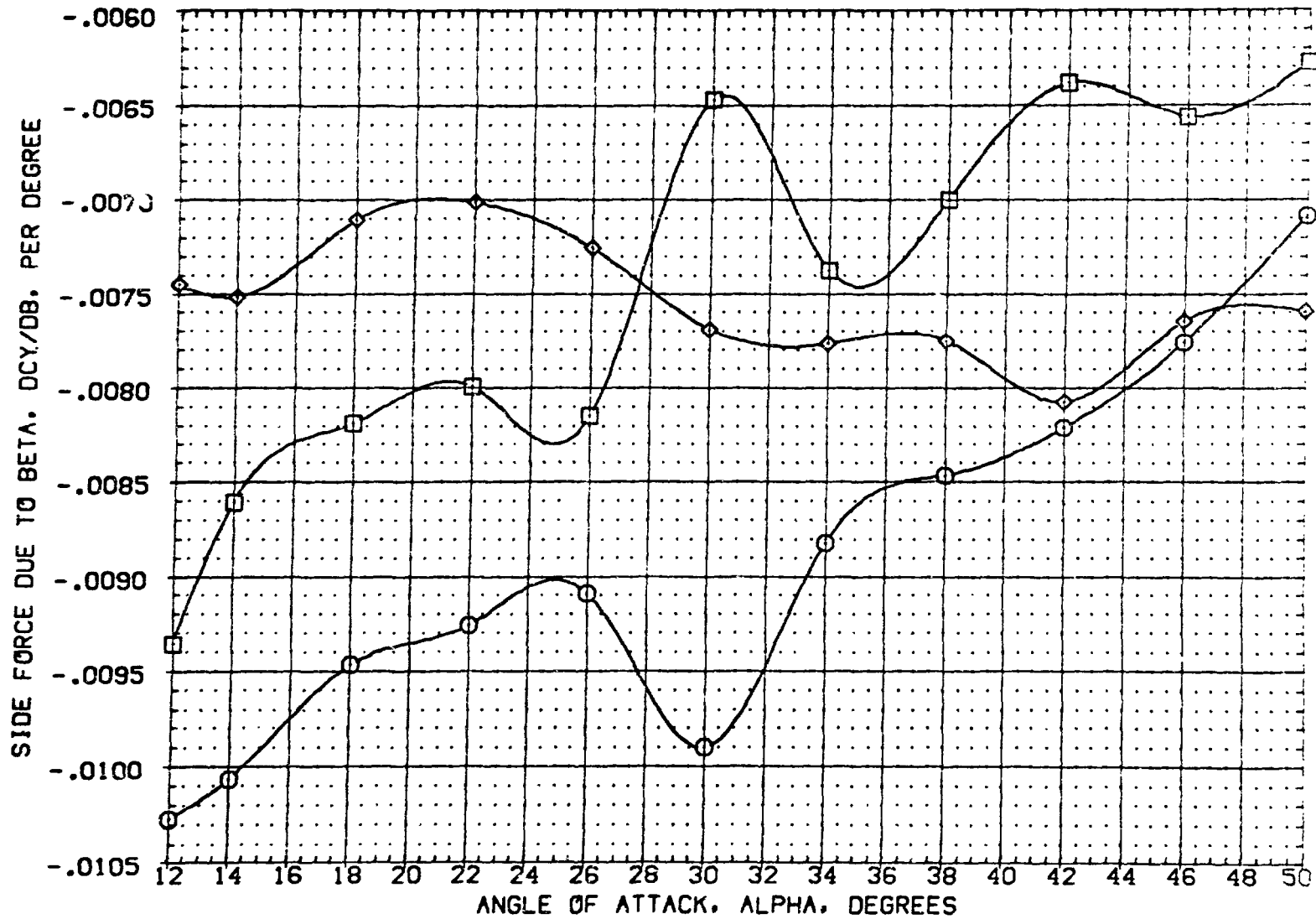


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(VB6025)

SYMBOL	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	5.200	DBETA 5.000 ELEVON .000	SREF 2600.0000 00.00
□	7.200	A1LRON .000 BDFLAP -14.250	LREF 474.6000 IN.
◇	10.200	SPDBRK 55.000 RUDDER .000	BREF 936.6000 IN.
			XMRP 1076.4000 IN.
			YMRP .0000 IN.
			ZMRP 400.0000 IN.
			SCALE .0100 SCALE

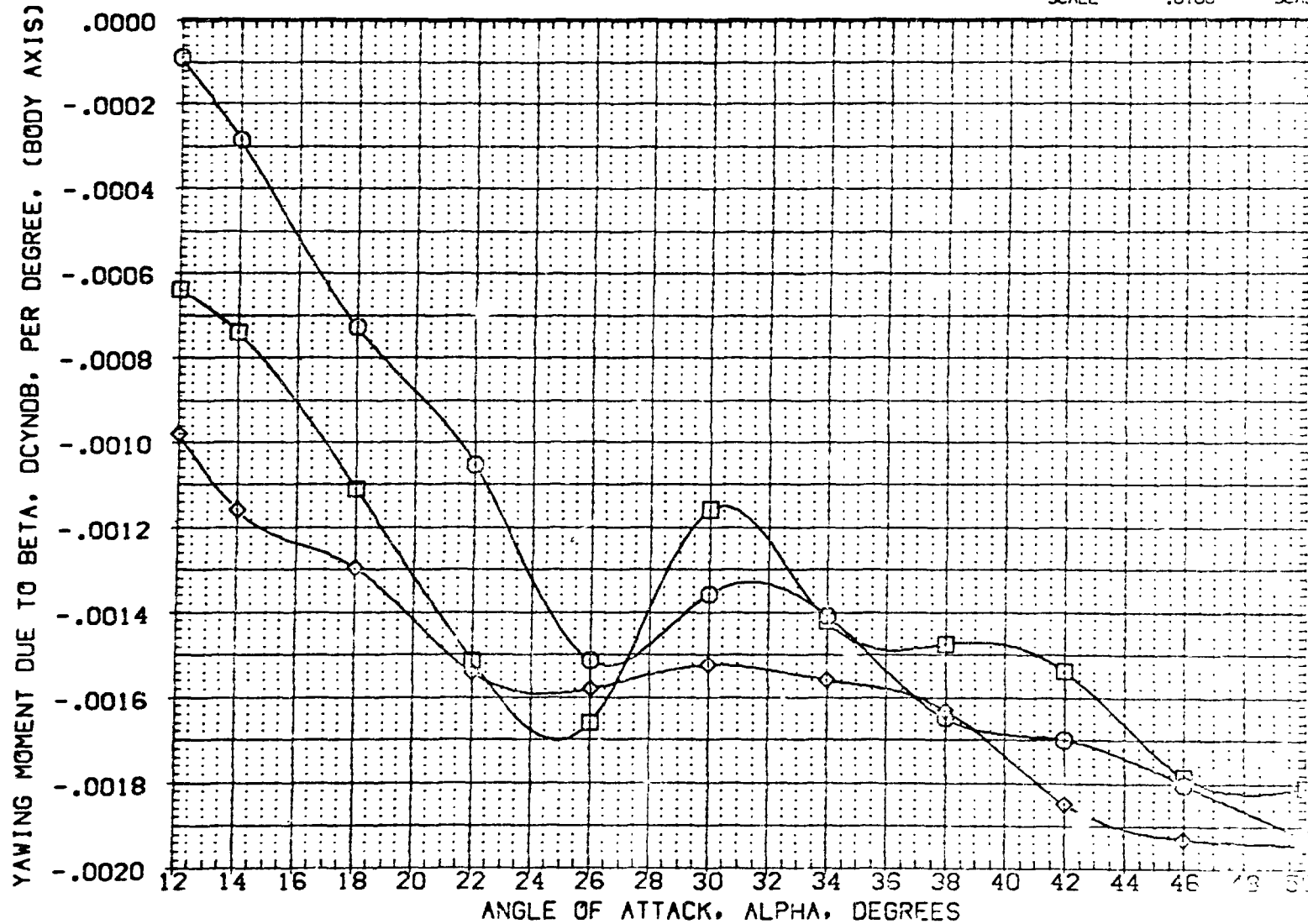


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(VB6025)

SYMBOL	MACH	PARAMETRIC VALUES	REFERENCE INFORMATION
○	5.200	DBETA 5.000 ELEVON .000	SREF 2690.0000 SQ. FT.
□	7.200	AILRON .000 BOFLAP -14.250	LREF 474.8000 IN.
◇	10.200	SPDRK 55.000 RUDDER .000	BREF 936.6900 IN.
			XMRP 1076.4800 IN.
			YMRP .0000 IN.
			ZMRP 400.0000 IN.
			SCALE .0100 SCALE

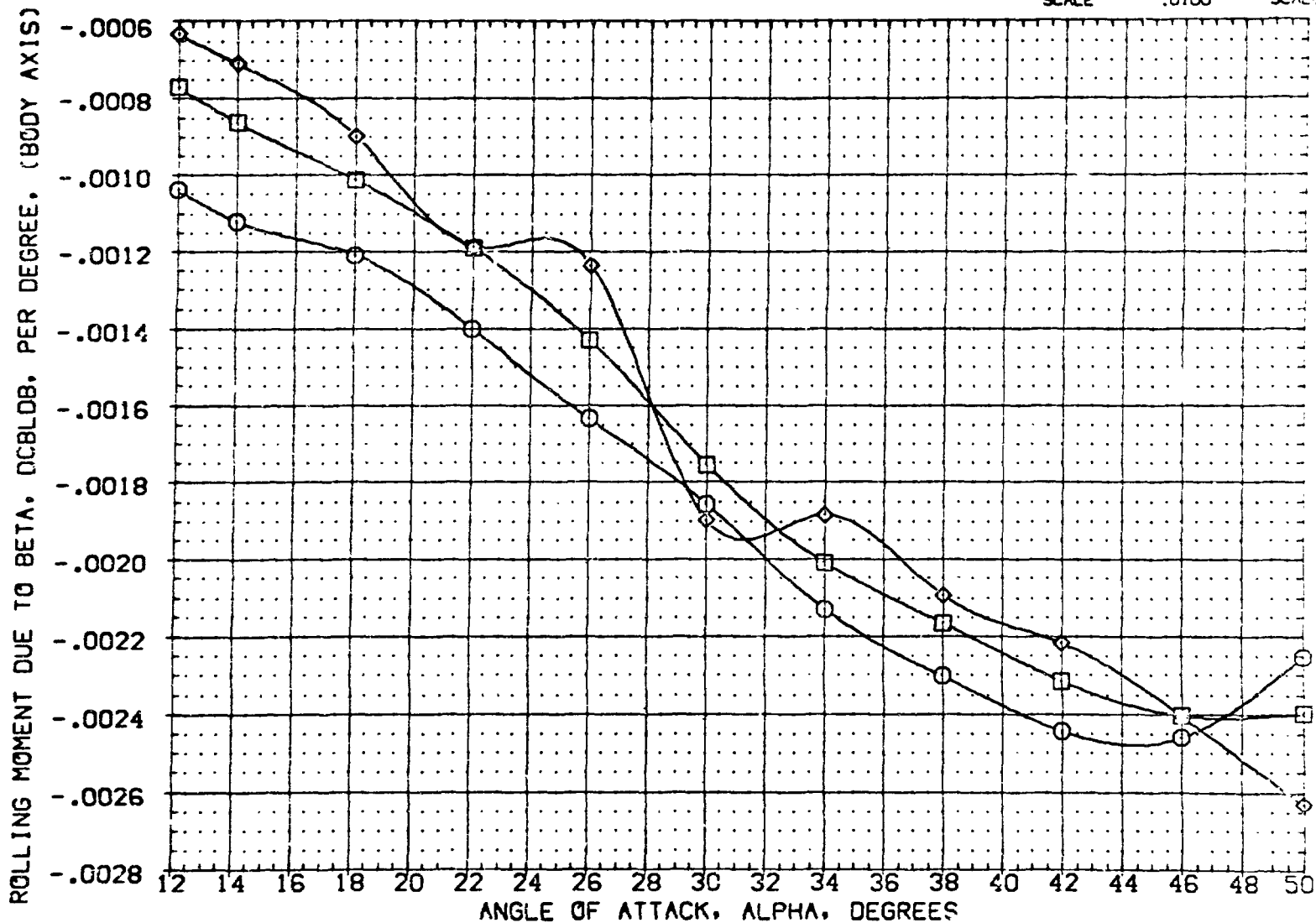


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N6 R5 V7 W107(WB6025)

SYMBOL	ALPHA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	12.000	DBETA 5.000 ELEVON .000	SREF 2000.0000
□	20.000	AILRON .000 SDFLAP -14.250	LREF 474.0000
◇	30.000	SPOBRK 55.000 RUDDER .000	BREF 936.0000
△	40.000		XMRP 1076.0000
▽	50.000		YMRP 1000.0000
			ZMRP 400.0000
			SCALE .0100

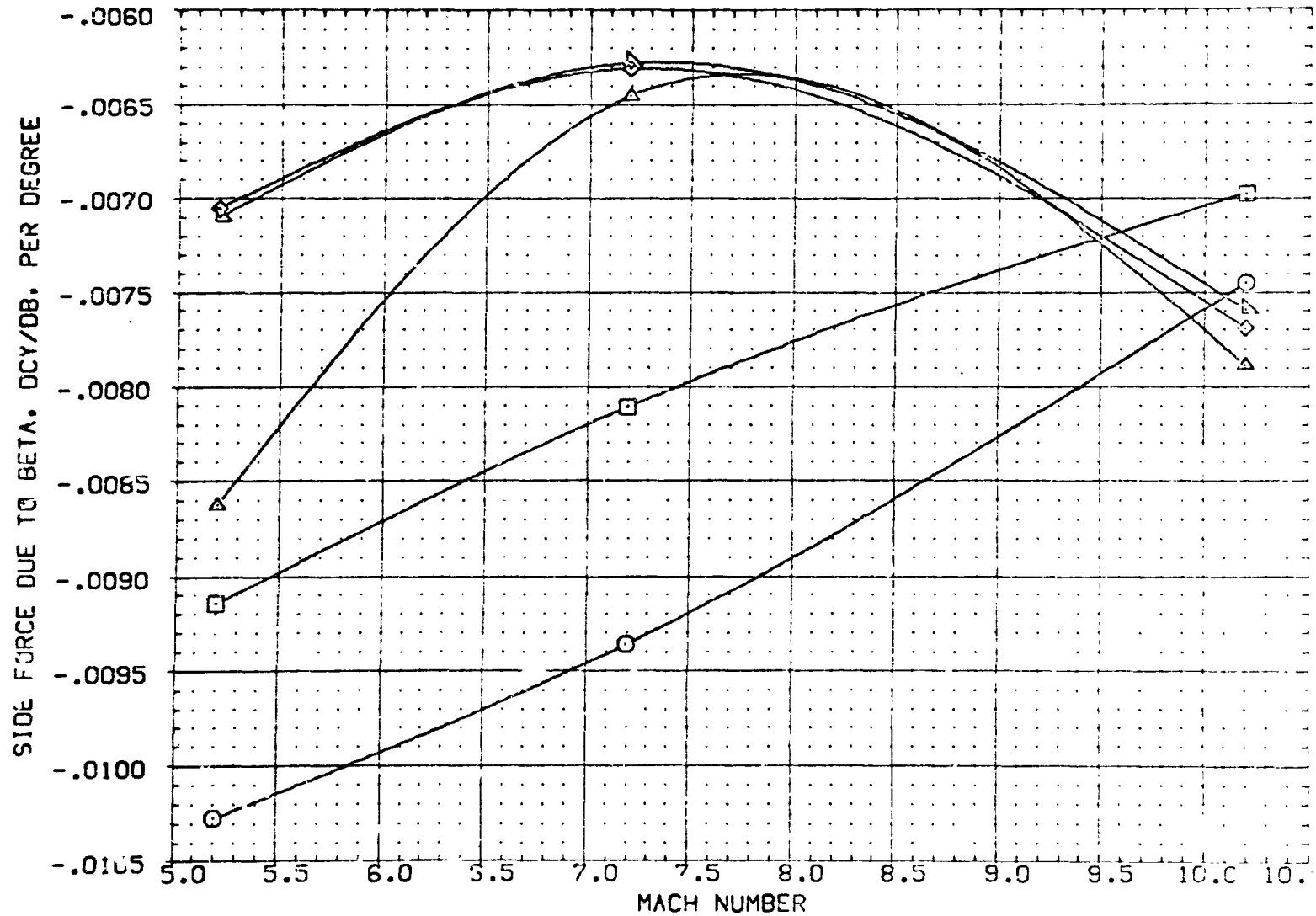


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W1U7(WB6025)

SYMBOL	ALPHA	PARAMETRIC VALUES	REFERENCE INFORMATION
○	12.000	DBETA 5.000 ELEVON .000	SREF 2000.0000 CO. FT.
□	20.000	A1LRON .000 BOFLAP -14.250	LREF 474.8000 IN.
◇	30.000	SPOBRK 55.000 RUDDER .000	BREF 936.6000 IN.
△	40.000		XMRP 1076.4000 IN.
▽	50.000		YMRP .0000 IN.
			ZMRP 400.0000 IN.
			SCALE .0100 SCALE

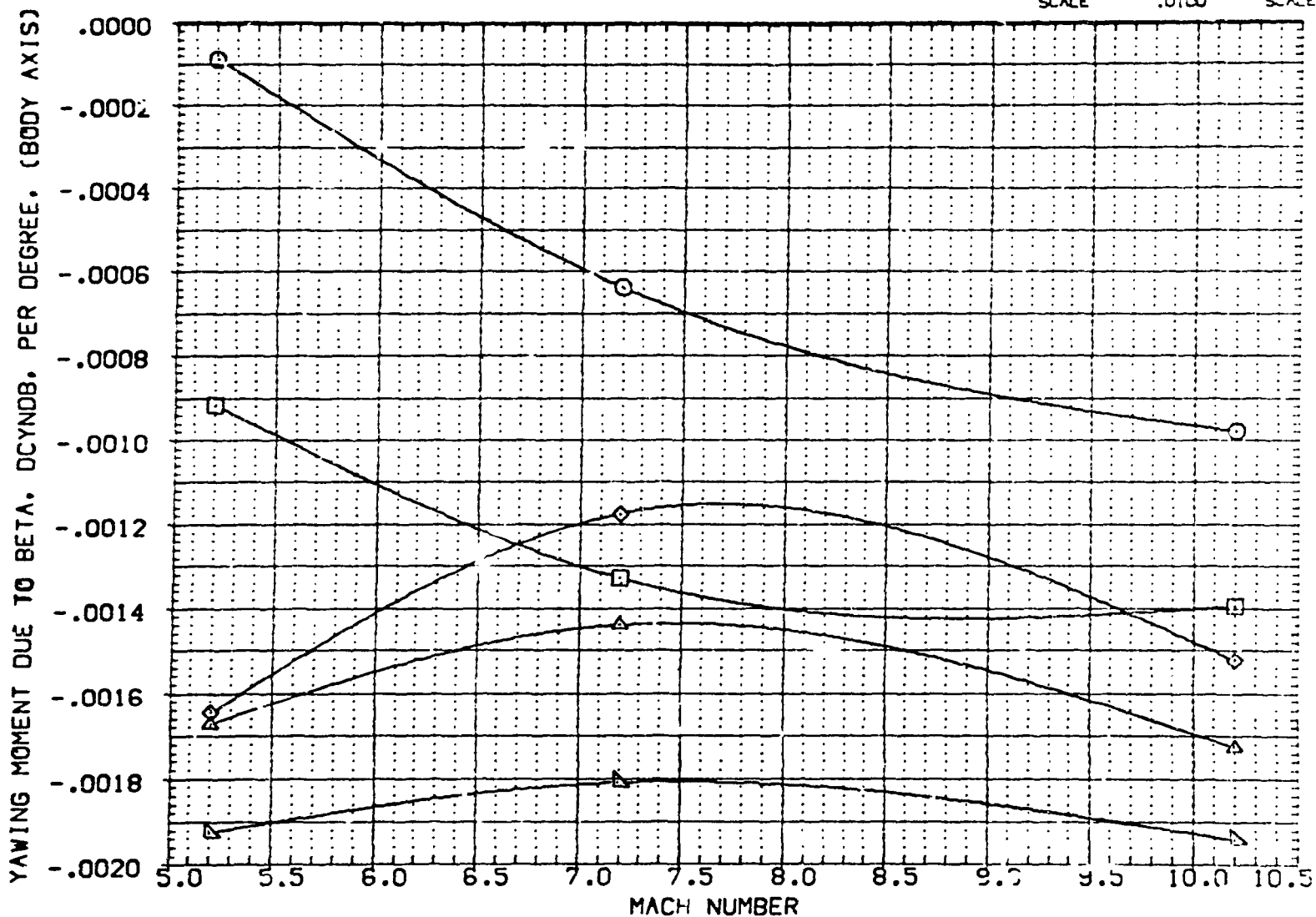


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107(WB6025)

SYMBOL		ALPHA	PARAMETRIC VALUES				REFERENCE INFORMATION		
○		12.000	DBETA	5.000	ELEVON	.000	SREF	2600.0000	SQ.FT.
□		20.000	AIRLON	.000	BDFLAP	-14.250	LREF	474.0000	IN.
◇		30.000	SPDBRK	55.000	RUDDER	.000	CPCF	925.0000	IN.
△		40.000					XMRP	1076.4000	IN.
▽		50.000					YMRP	.0000	IN.
							ZMRP	400.0000	IN.
							SCALE	.0100	SCALE

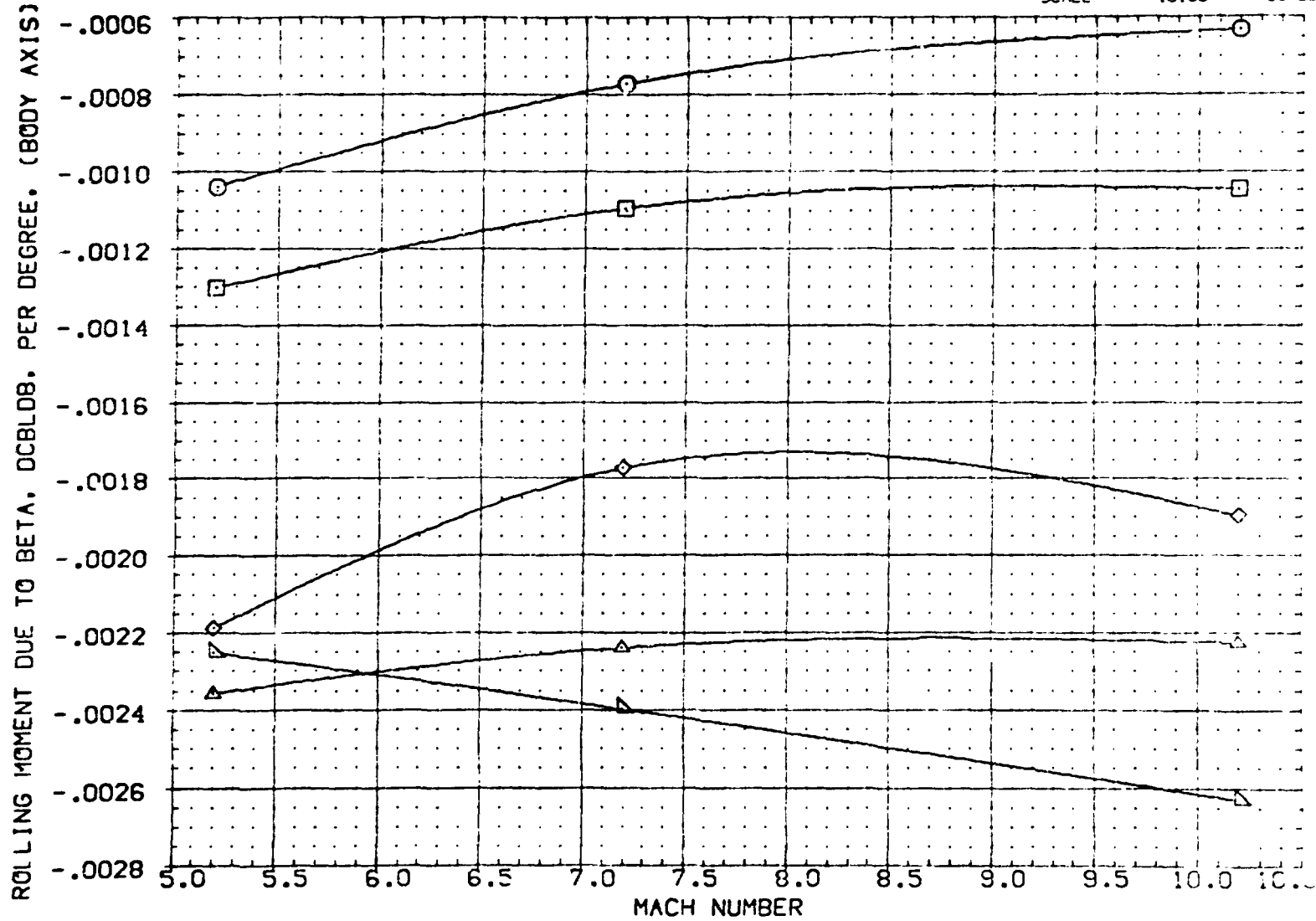


FIG. 9 SIDESLIP EFFECTS

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	○	AMES3.5-168 OA23 B19 C7					SREF 2630.0000 IN.
(CB6030)	□	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.0000 IN.
(CB6029)	◇	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 935.0000 IN.
(296012)	△	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

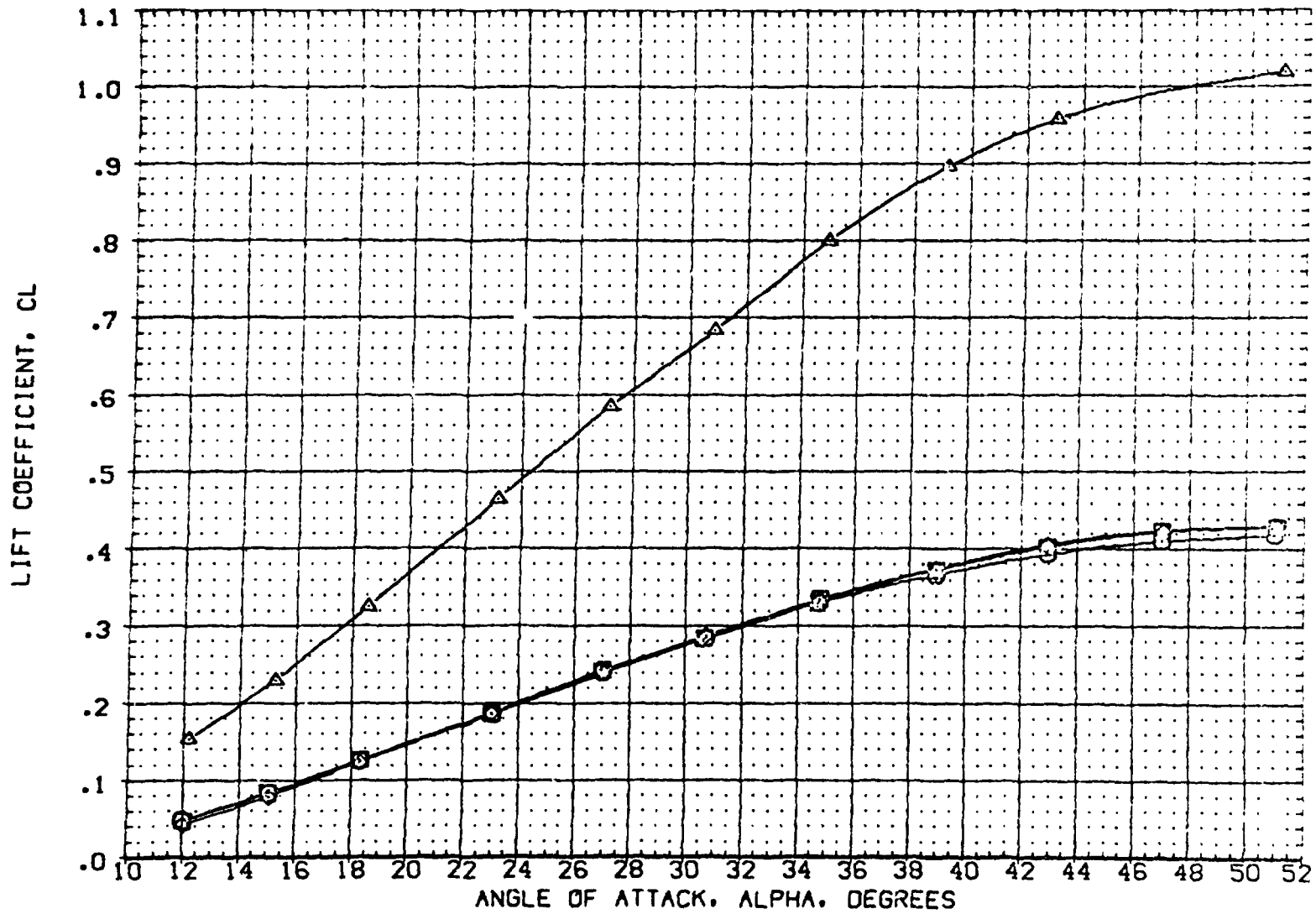


FIG. 10 COMPONENT BUILDUP
(A)MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOILER	RUDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 SC.F.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.0000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 936.0000 IN.
(266012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	50.000	.000	XMAP 1076.4000 IN.
						YMAP .0000 IN.
						ZMAP 100.0000 IN.
						SCALE .0100 SCALE

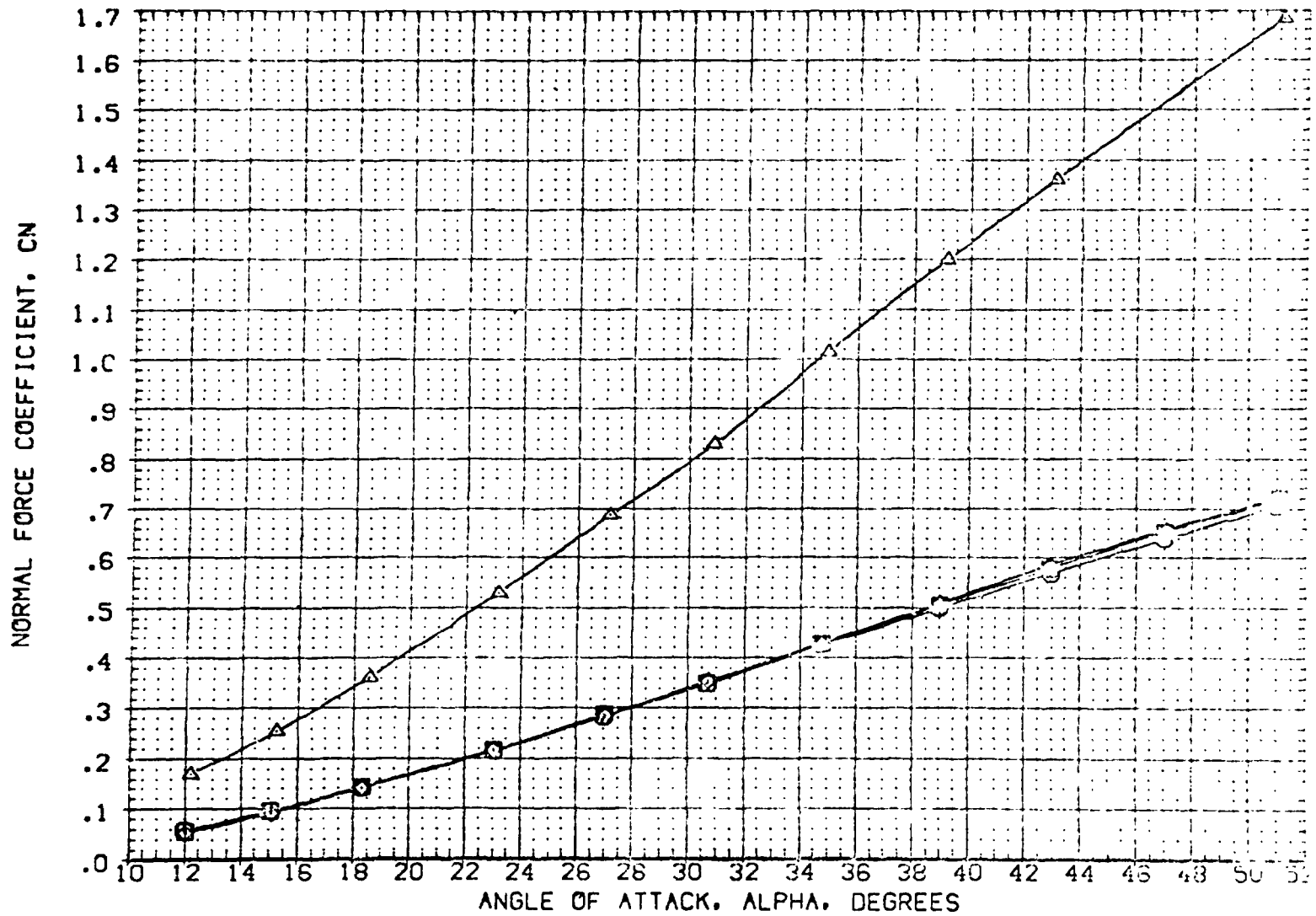


FIG. 10 COMPONENT BUILDUP
(A) MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDRK	RUDDER	REFERENCE INFORMATION
(CB6031)	○	AMES3.5-168 OA23 819 C7					SREF 2690.0000 SQ.FT.
(CD6030)	□	AMES3.5-168 OA23 819 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	◇	AMES3.5-168 OA23 819 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 935.0000 IN.
(Z66012)	△	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	XMRP 1076.0000 IN.
							YMRP .0000 IN.
							ZMRP 400.0000 IN.
							SCALE .0100 SCALE

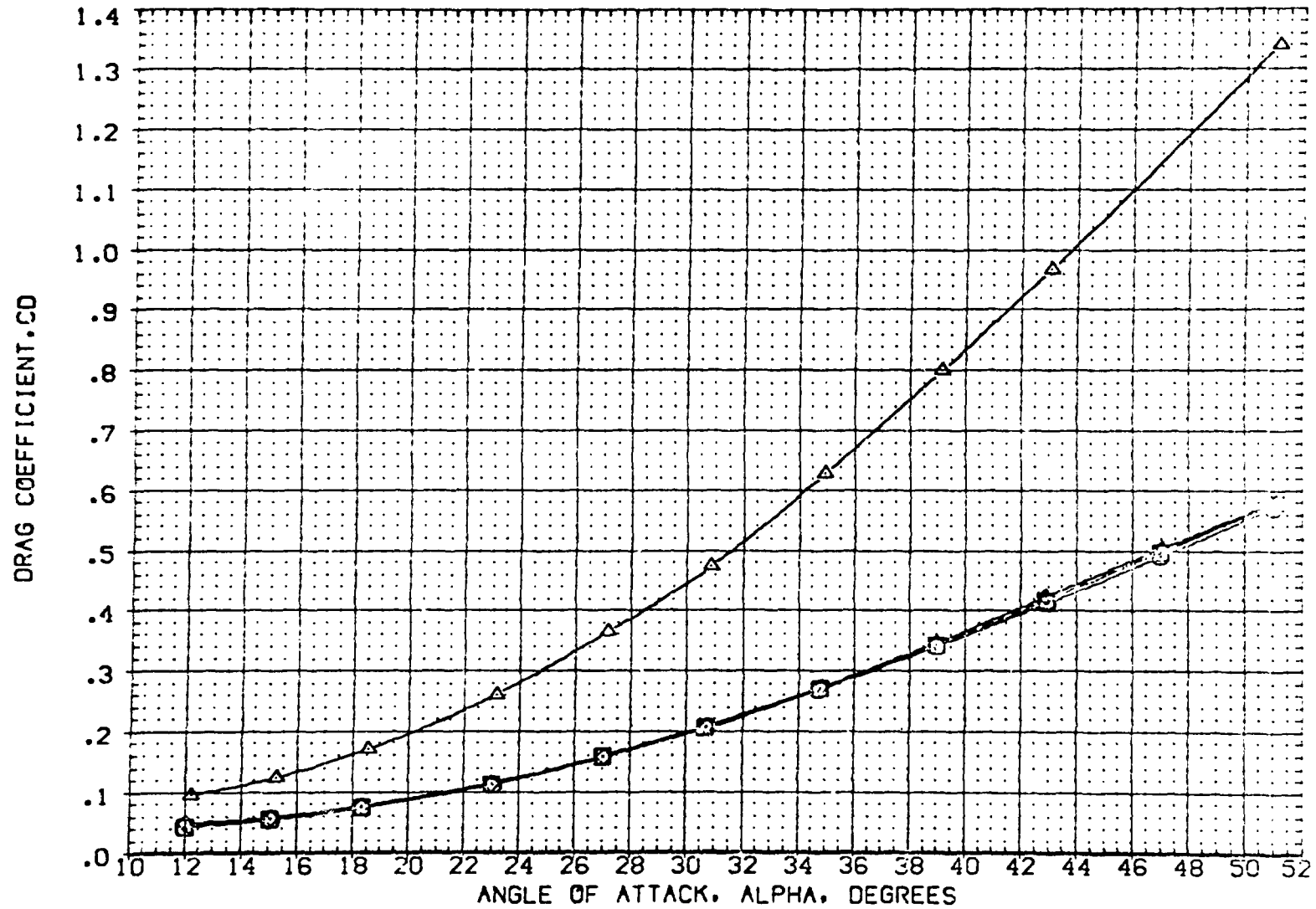


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2090.0000 53/71
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.0000 13/
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	DREF 909.0000 13/
(2B6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	XMRP 1015.0000 13/
						YMRP .0000 13/
						ZMRP 400.0000 13/
						SCALE .0100 53/71

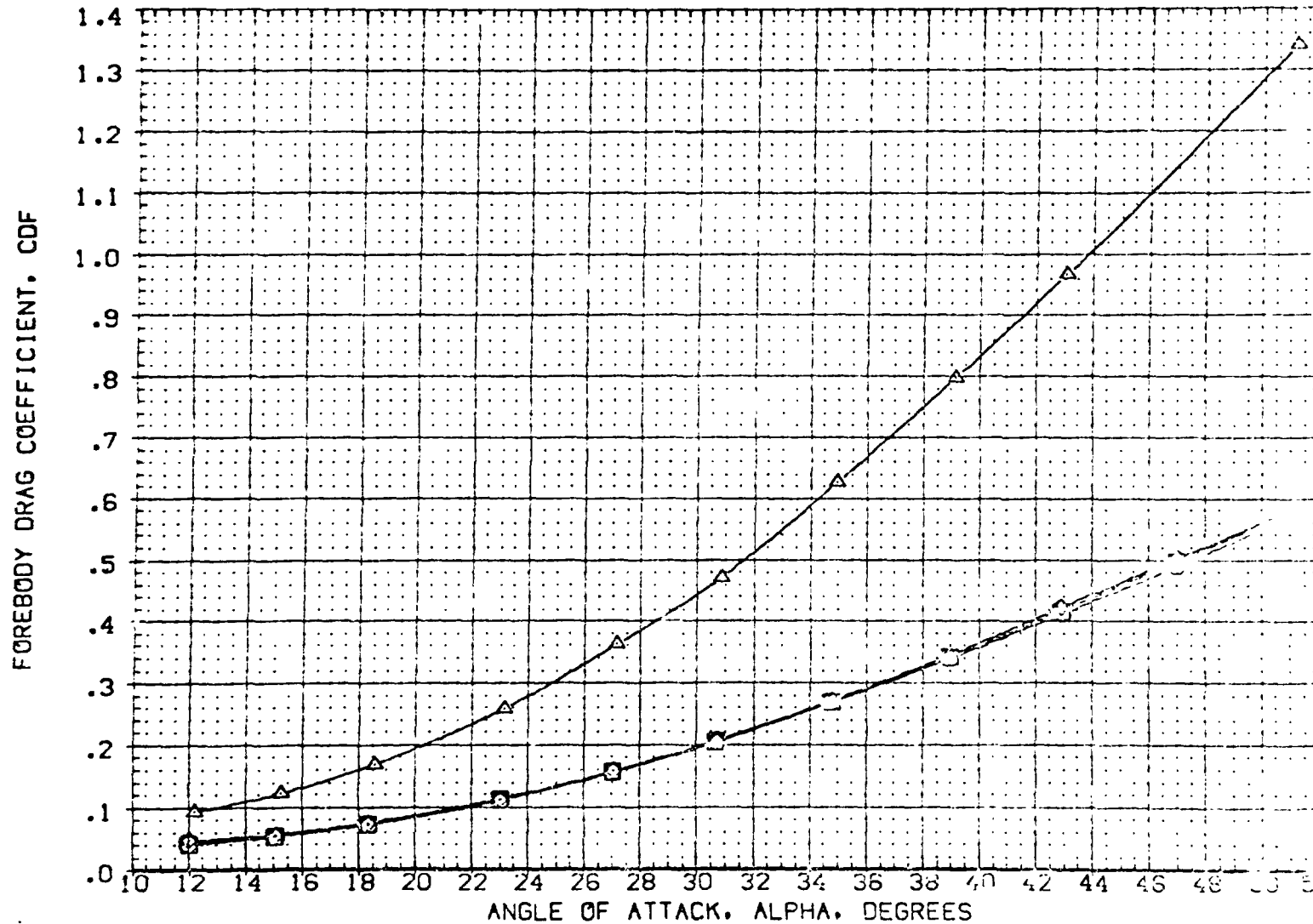


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 SQ.FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 FS		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 FS V7 R5 M4		-14.250	55.000	.000	BREF 936.0000 IN.
(2B6012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 NB R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.0000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

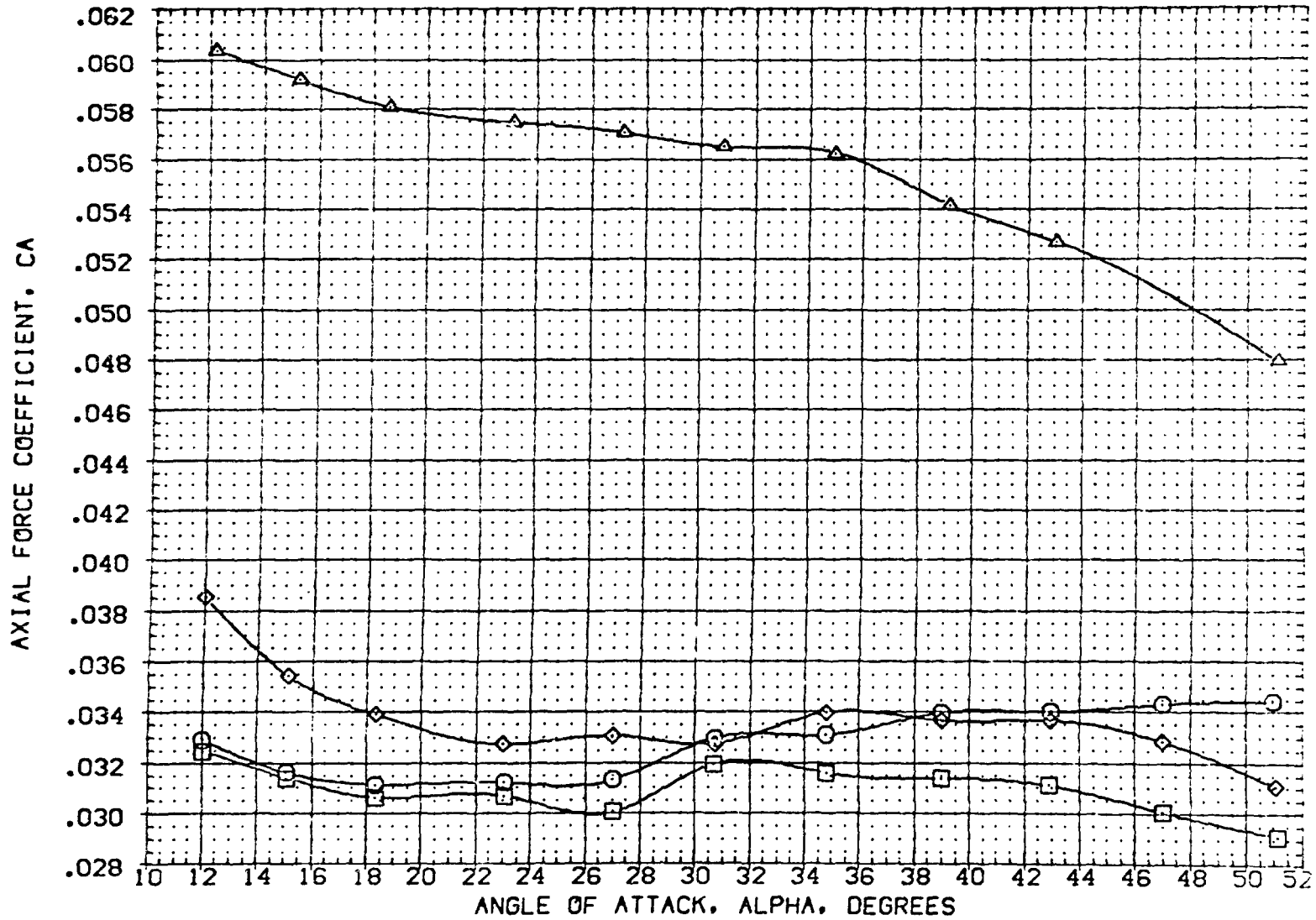


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 SQ.FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 905.0000 IN.
(2B6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	XMRP 1076.0000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

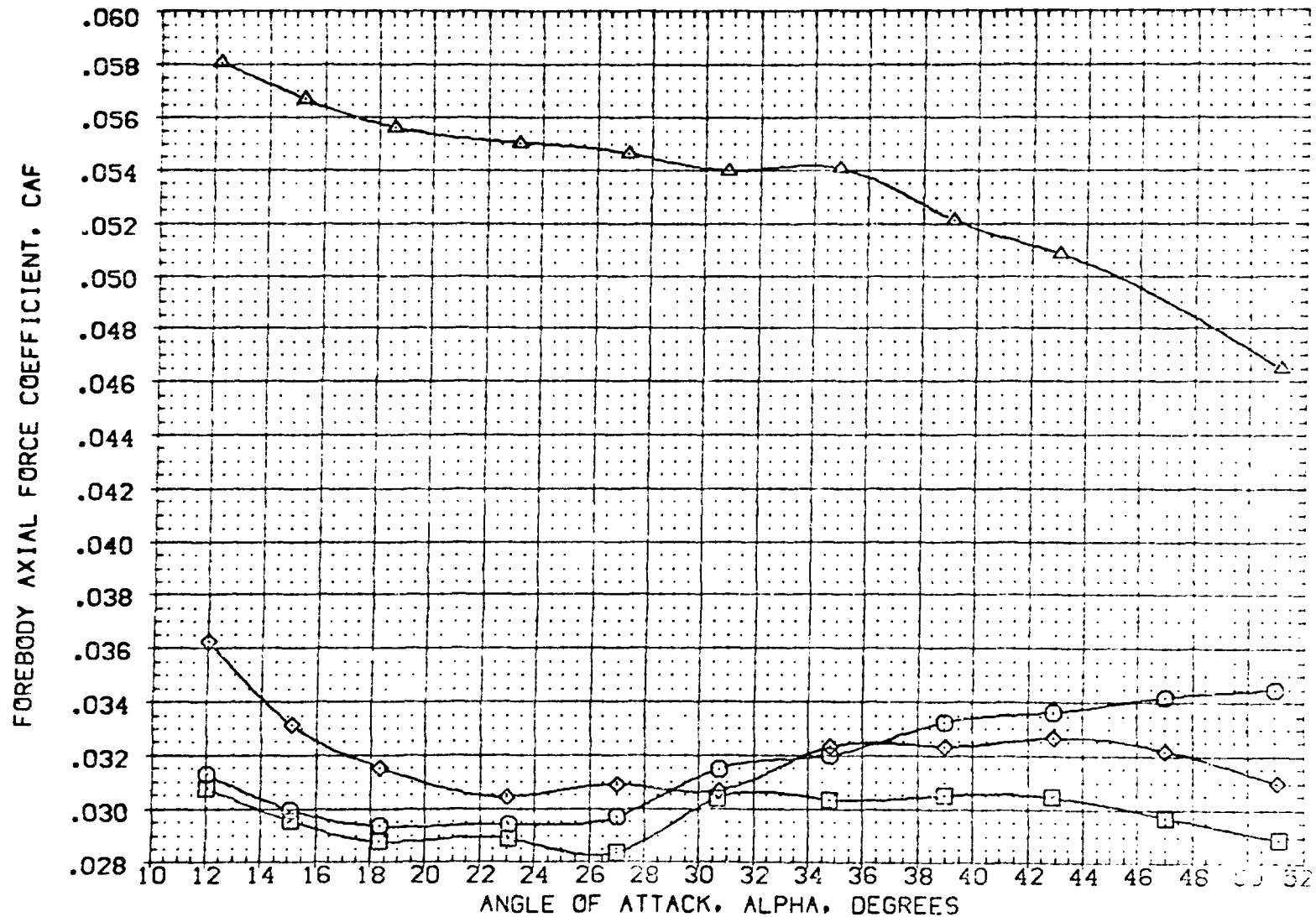


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2000.0000 CO. FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 936.6000 IN.
(286012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 NB R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

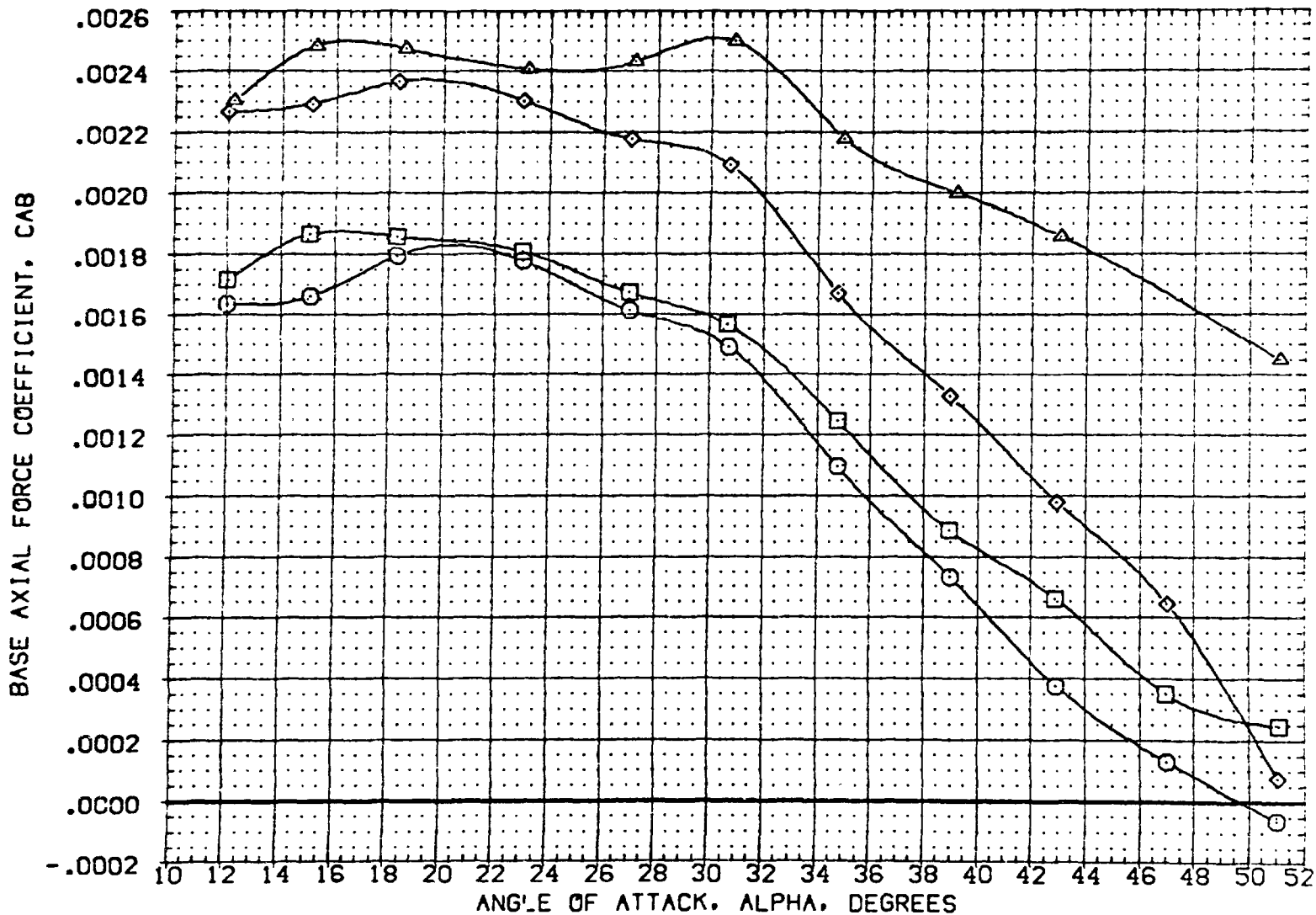


FIG. 10 COMPONENT BUILDUP
(A) MACH = 7.32

139B CONFIGURATION (0.010-SCALE).

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF	2690.0000 SO.FT.
(CB5030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF	474.0000 IN.
(CB5029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF	936.8000 IN.
(2B6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M1 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP	1070.4800 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

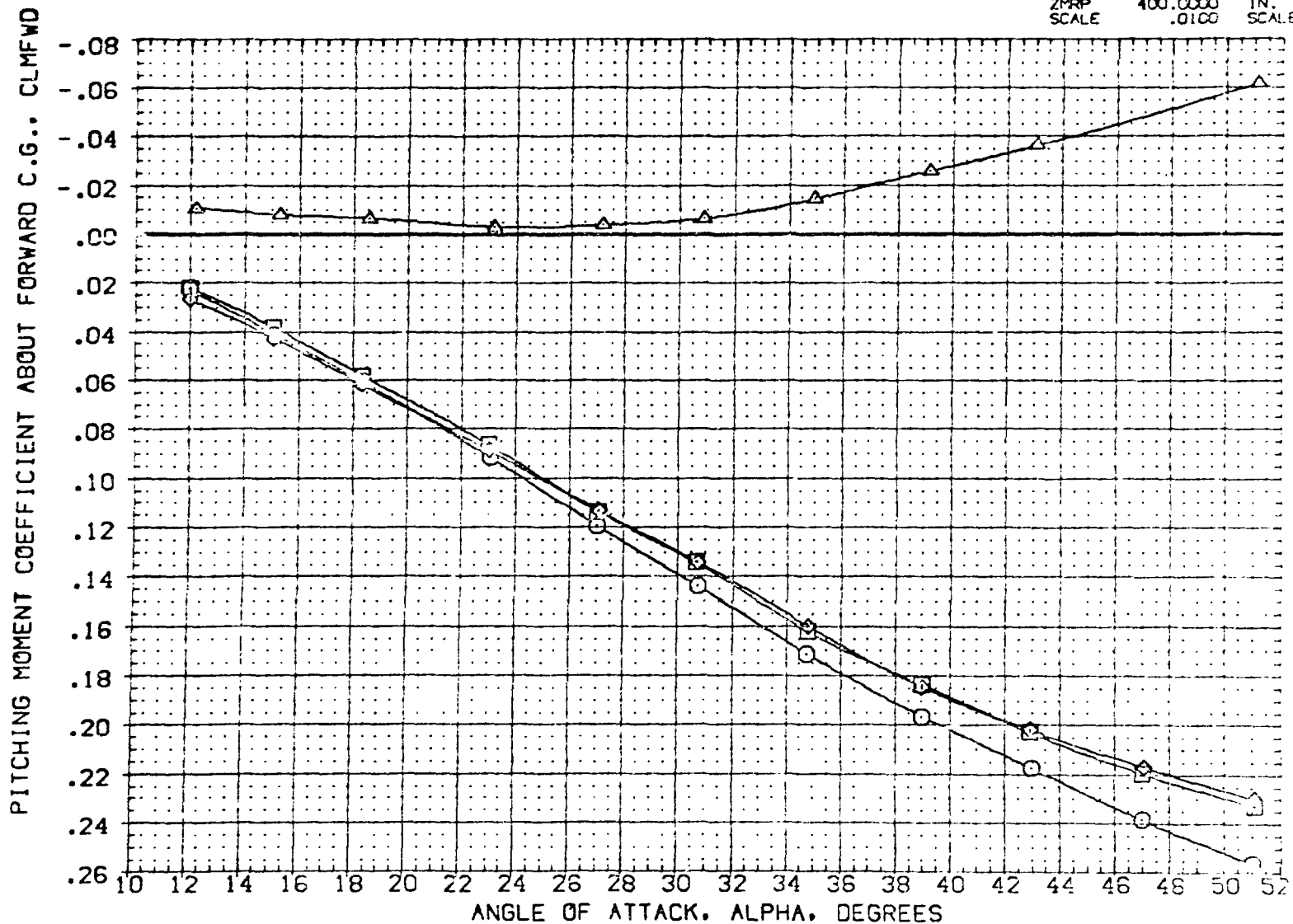


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 IN.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 936.0000 IN.
(266012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

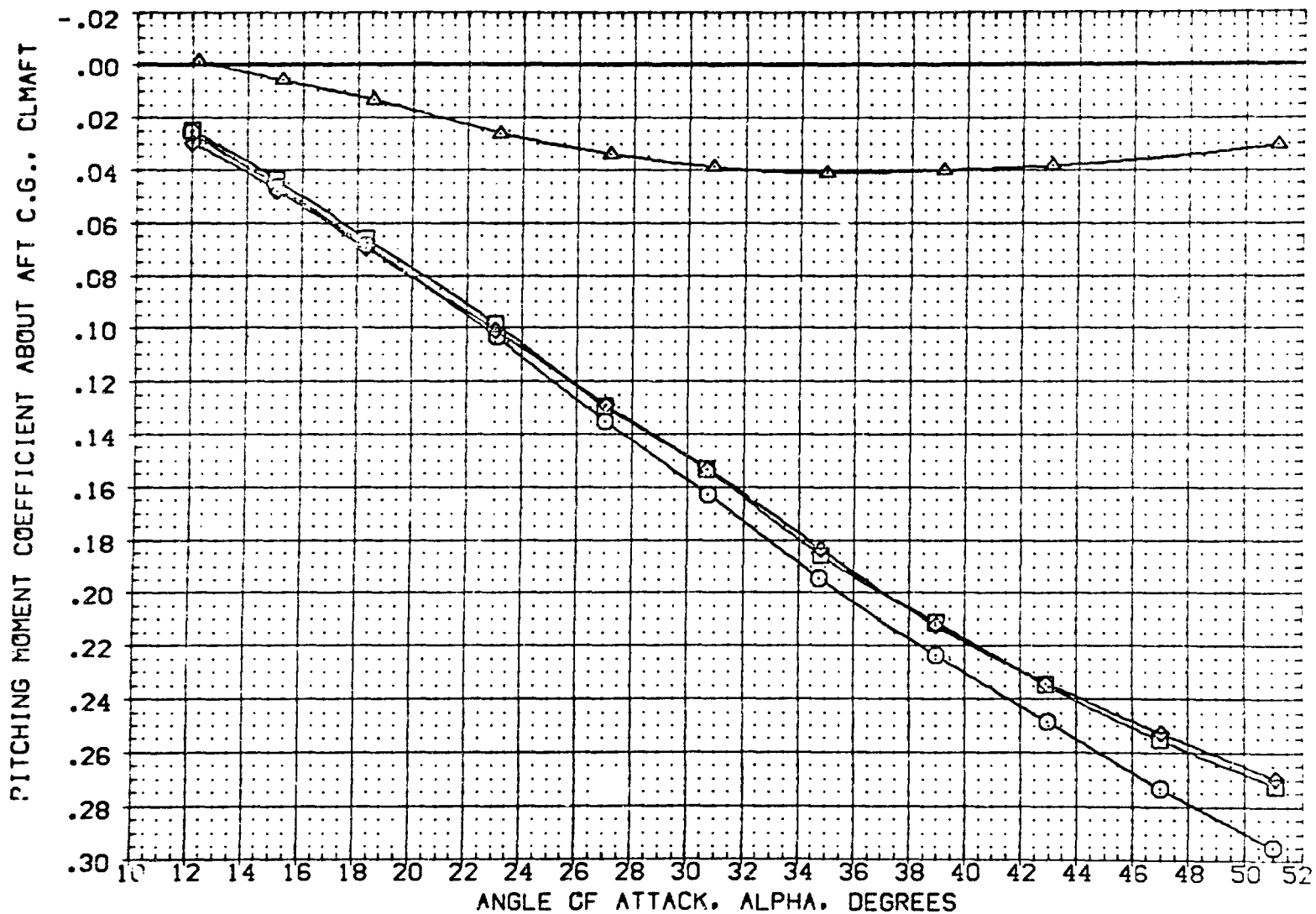


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 CO. FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 936.6000 IN.
(286012)	AMES3.5-163 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

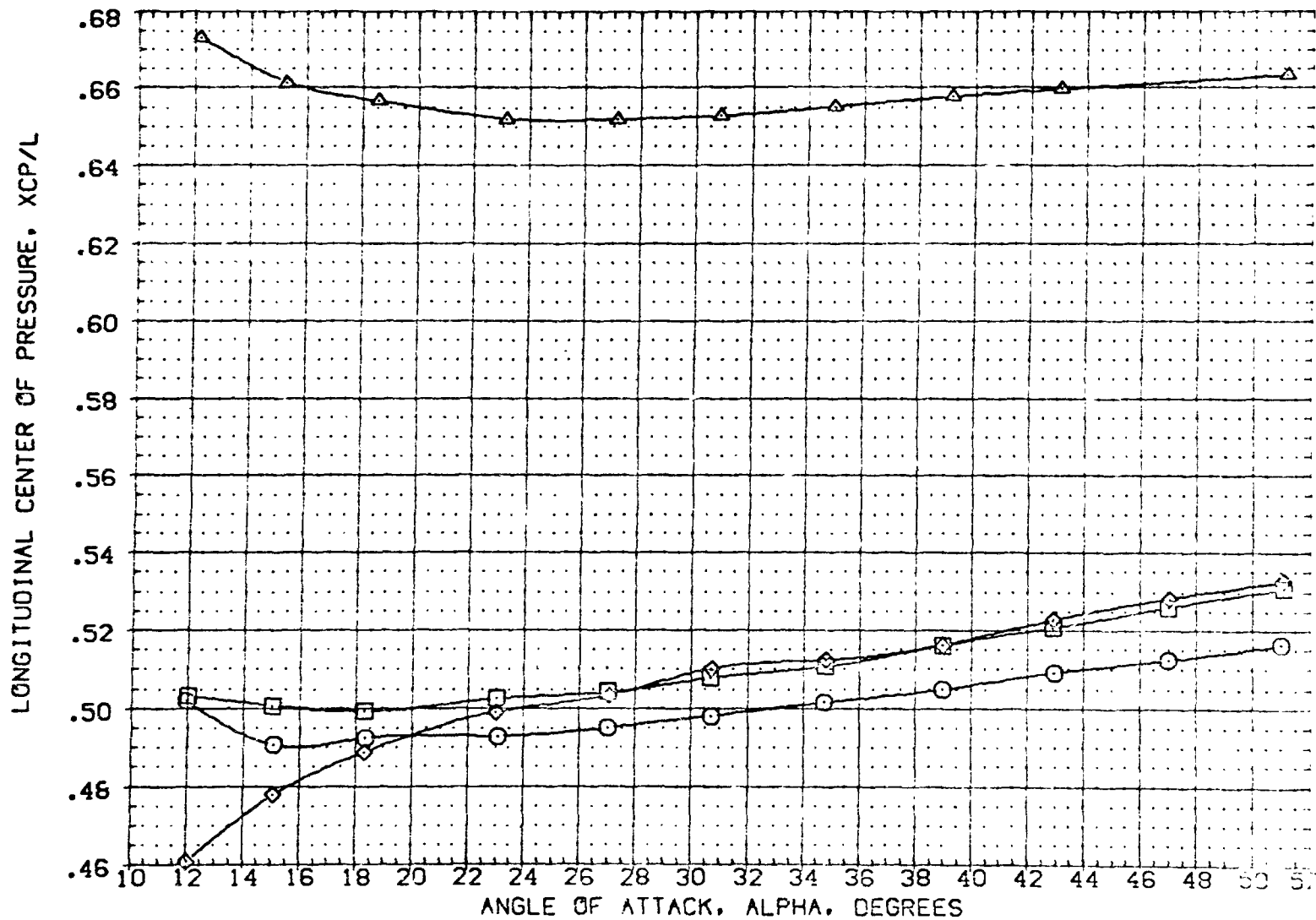
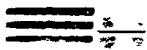


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 SQ FT.
(886030)	AMES3.5-168 OA23 B19 C7 FS		-14.250			LREF 474.8000 IN.
(886029)	AMES3.5-168 OA23 B19 C7 FS V7 R5 M		-14.250	55.000	.000	BREF 936.6000 IN.
(386012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 B R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4800 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

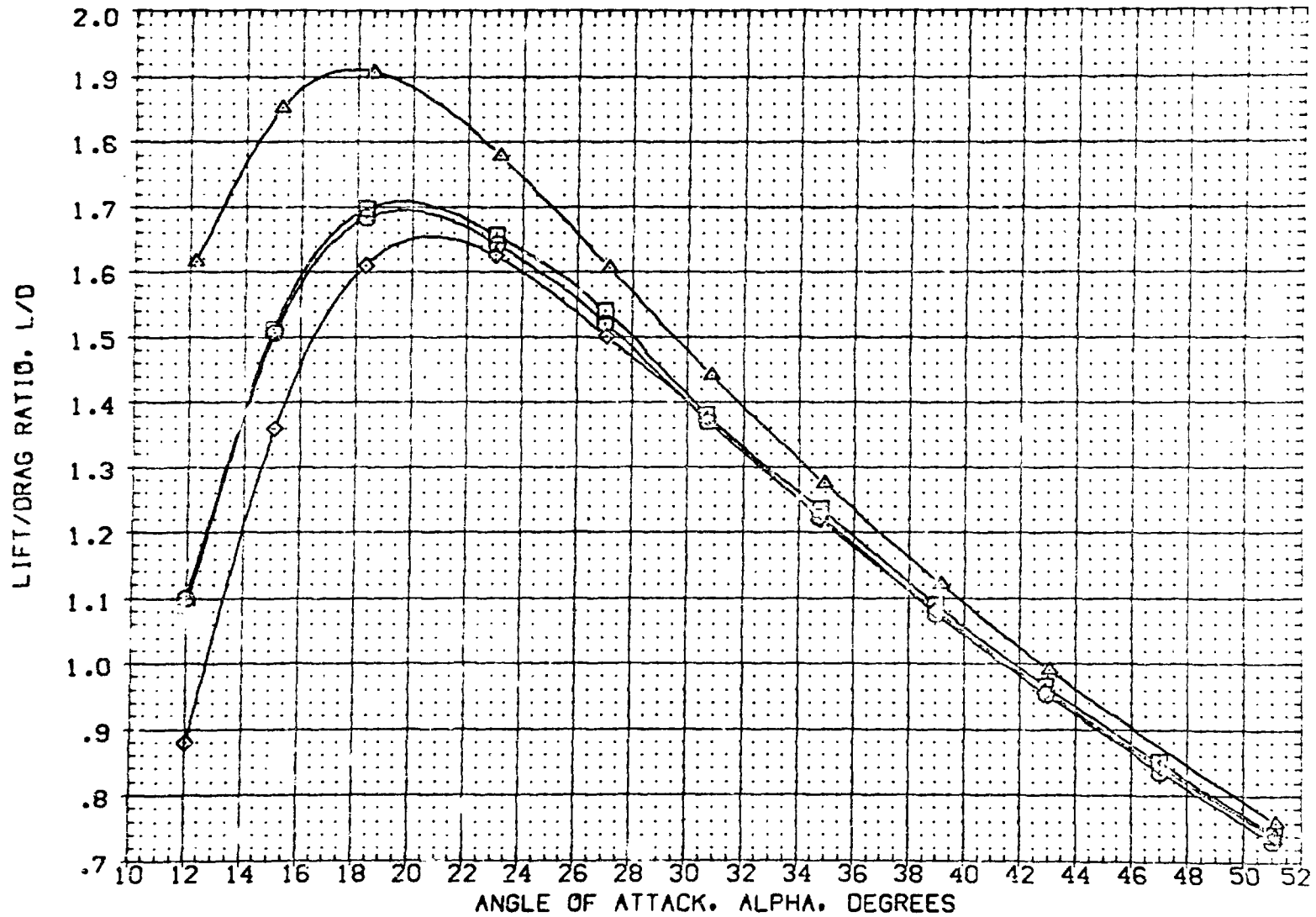


FIG. 10 COMPONENT BUILDUP 139B CONFIGURATION (0.010-SCALE).
 (A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION	
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF	2690.0000 SQ.FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF	474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF	930.6000 IN.
(286012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	XMRP	1076.4000 IN.
						YMRP	.0000 IN.
						ZMRP	400.0000 IN.
						SCALE	.0100 SCALE

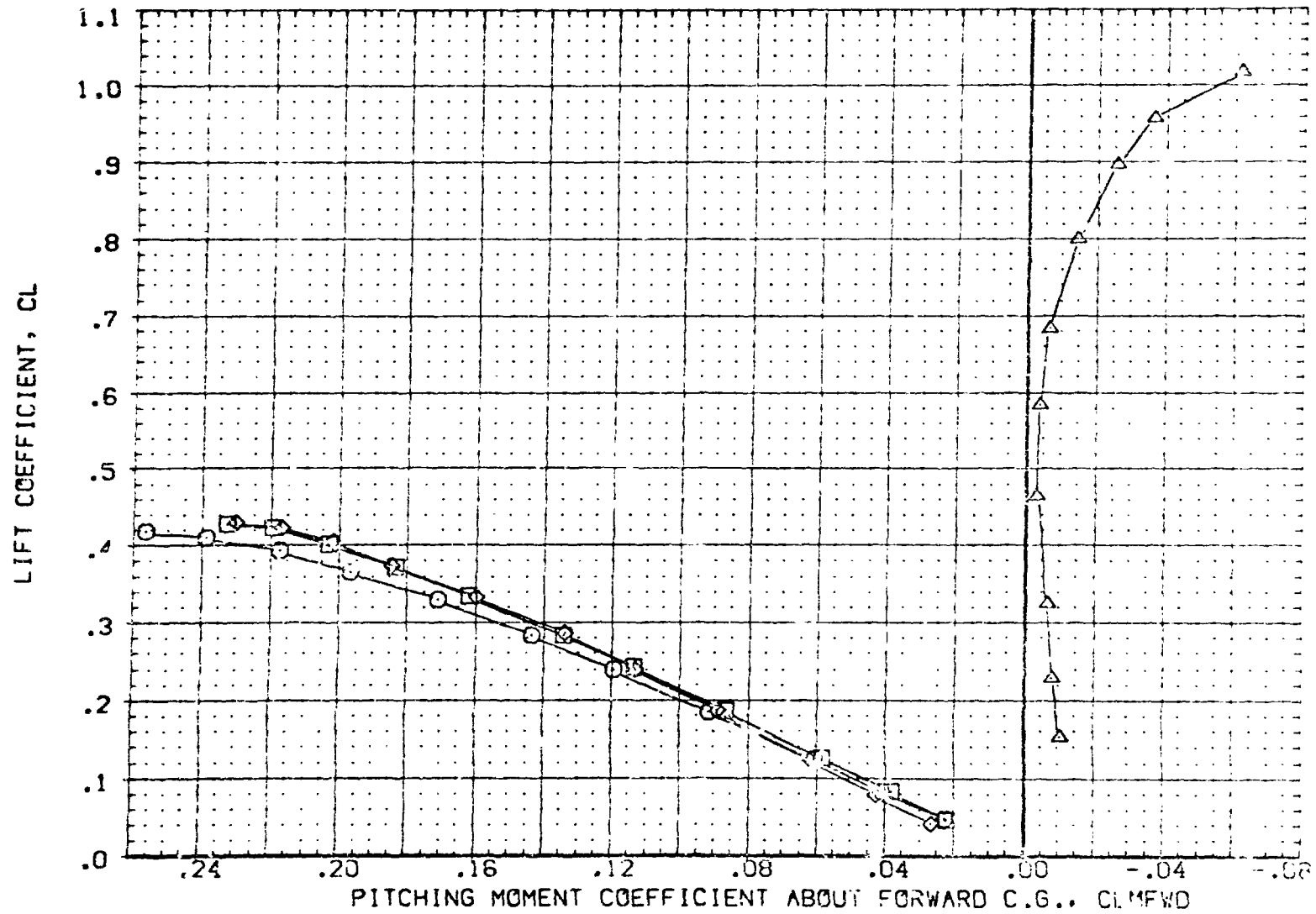


FIG. 10 COMPONENT BUILDUP

133B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	DOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 SQ.FT.
(CB6030)	AMES3.5-168 OA23 B19 C7 F5		-14.250			LREF 474.8000 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BREF 936.0000 IN.
(CB6012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

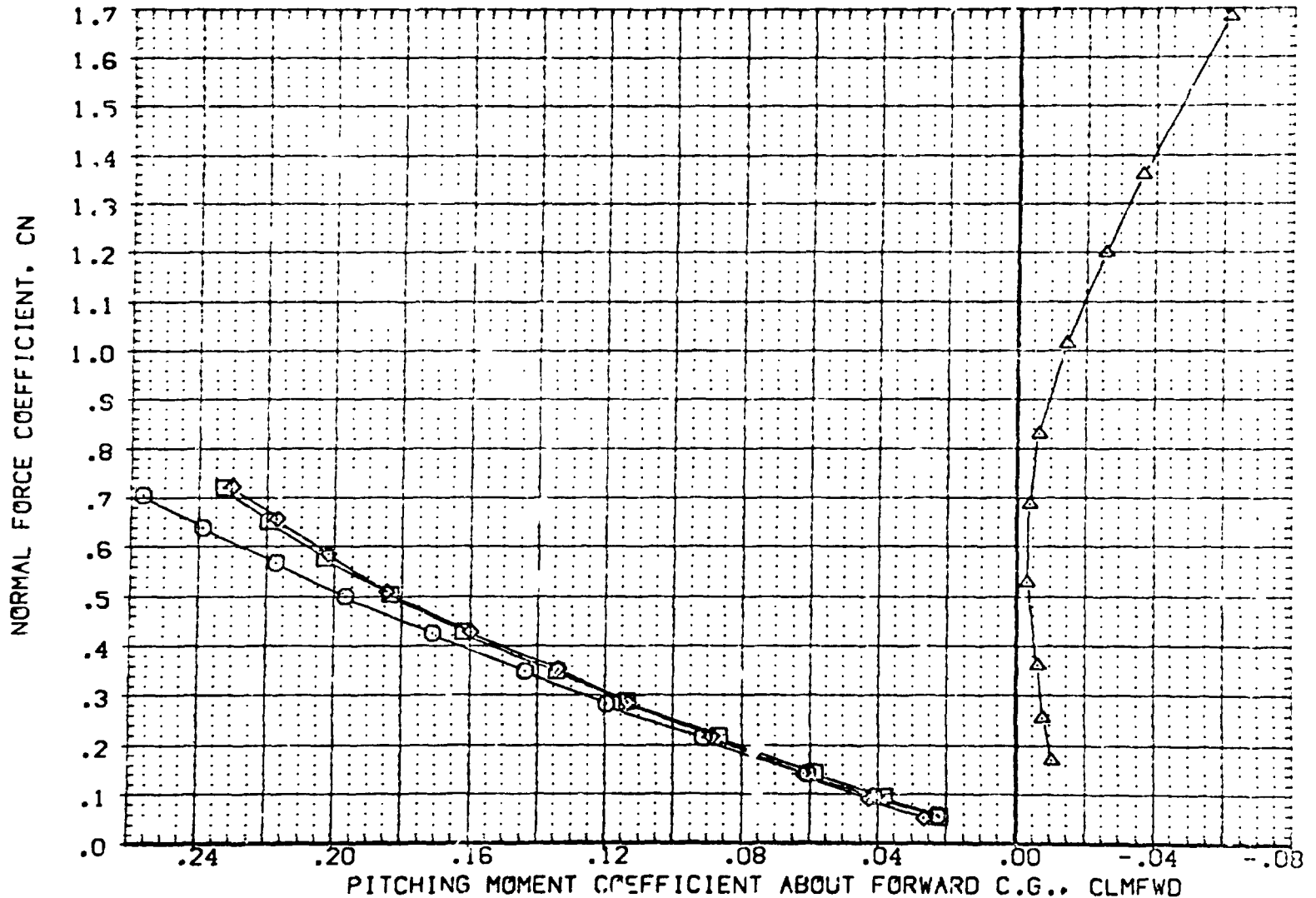


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(CB6031)	AMES3.5-168 OA23 B19 C7					SREF 2690.0000 IN.
(CB6030)	AMES3.5-168 OA23 B19 C7 FS		-14.250			LREF 474.6300 IN.
(CB6029)	AMES3.5-168 OA23 B19 C7 F5 V7 R5 M4		-14.250	55.000	.000	BRLF 935.6100 IN.
(286012)	AMES3.5-168 CA23 B19 C7 E23 F5 M4 N8 R5 V7 #107	.000	-14.250	55.000	.000	XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

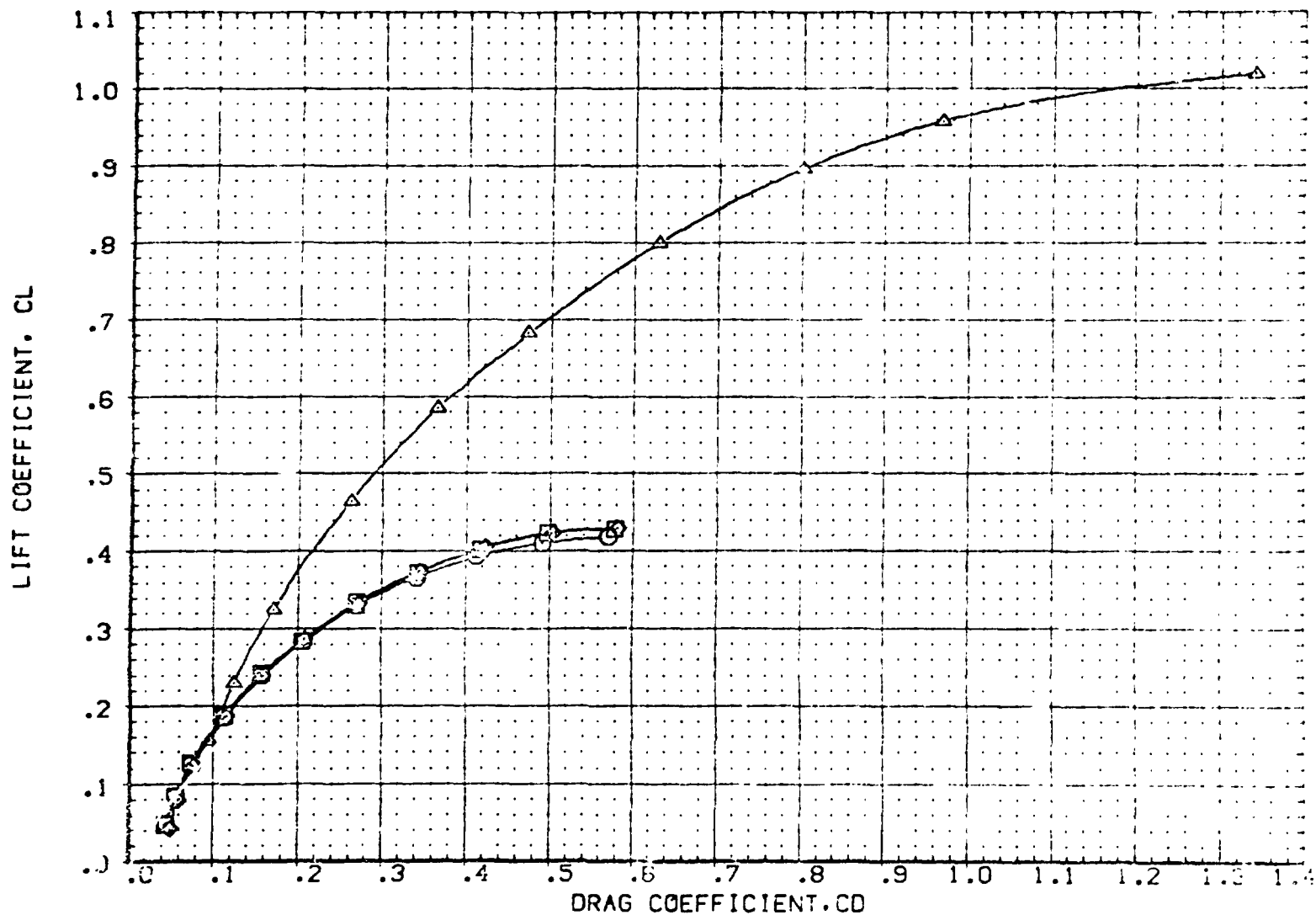


FIG. 10 COMPONENT BUILDUP

139B CONFIGURATION (0.010-SCALE).

(A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOBRK	BOFLAP	REFERENCE INFORMATION
(886022)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 V7 V107	-10.000	.000	55.000	-14.250	SREF 2600.0000 SC.F.
(886023)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 V7 V107	-10.000	-10.000	55.000	-14.250	LREF 474.8000 IN.
(886024)	AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 V7 V107	-10.000	-20.000	55.000	-14.250	BREF 950.0000 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

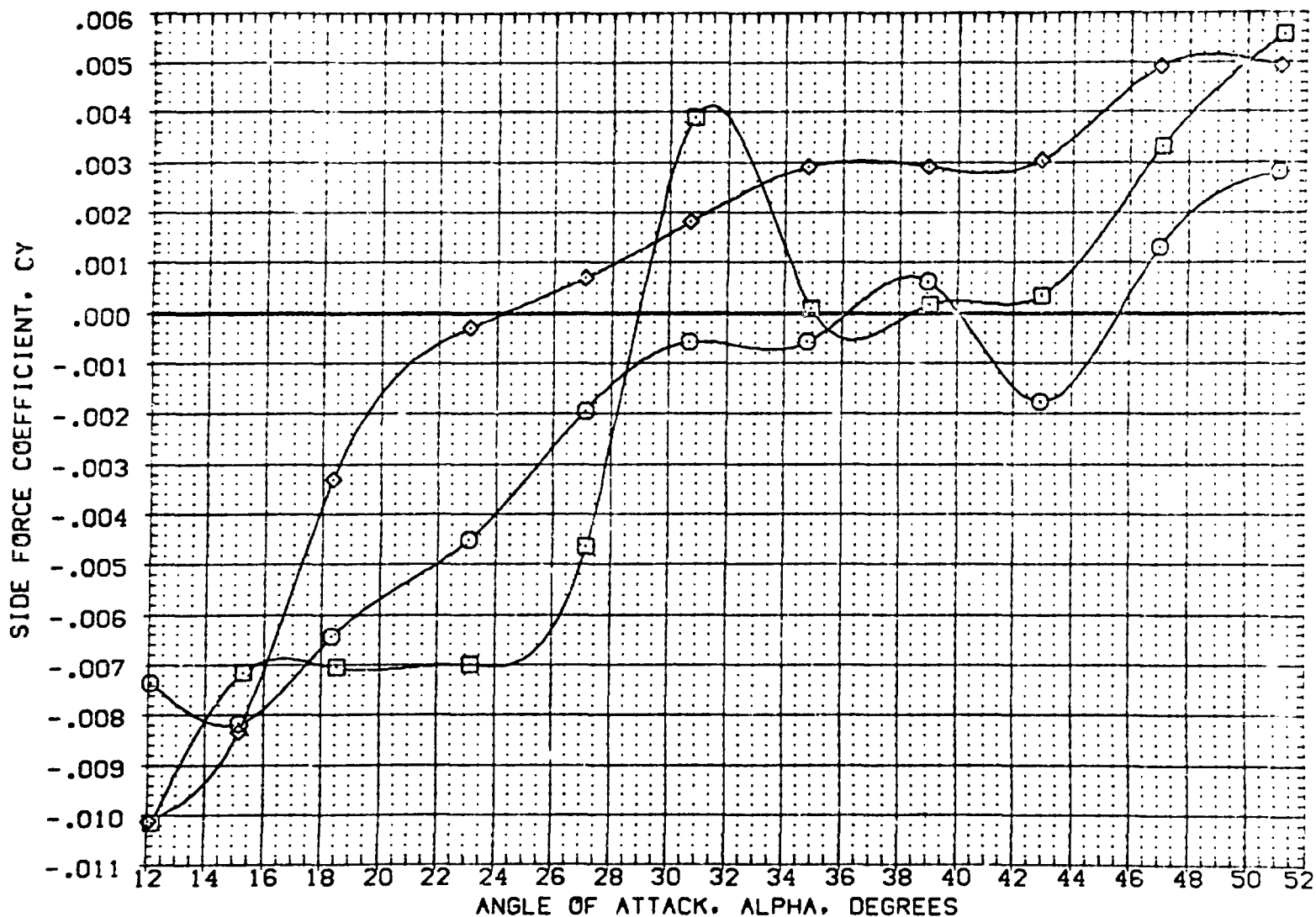


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILERON	CLEVON	SPOON	BOFLAP	REFERENCE INFORMATION
(886022)	○	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	.000	55.000	14.250	SREF 2690.0000 SQ.FT. LREF 474.0000 IN. EREF 900.0000 IN. XMRP 1076.0000 IN. YMRP 1000.0000 IN. ZMRP 400.0000 IN. SCALE 0.0100 SCALE
(886023)	□	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-10.000	55.000	14.250	
(886024)	◇	AMES3.5-168 OA23 819 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-20.000	55.000	14.250	

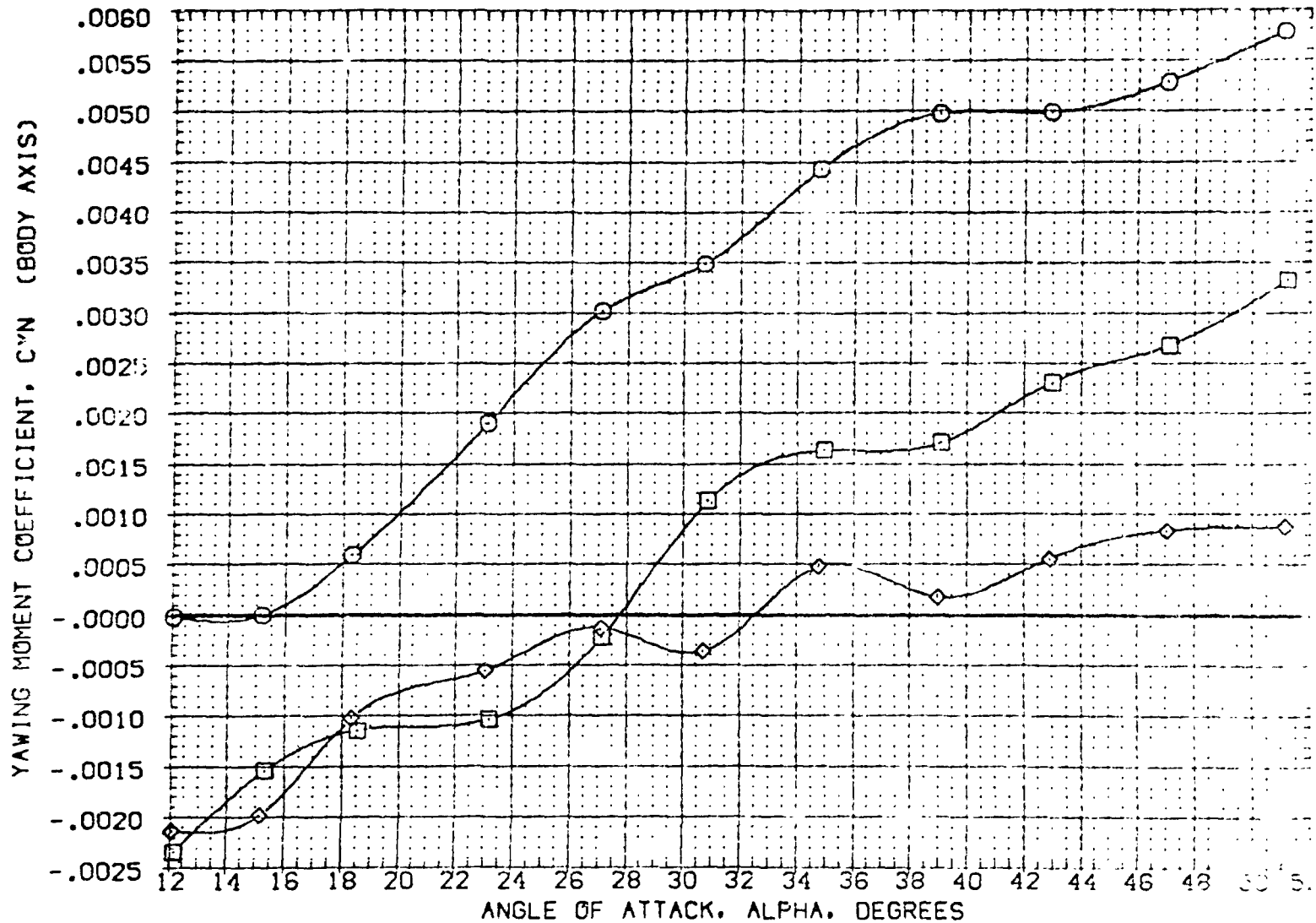


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOBRK	BOFLAP	REFERENCE INFORMATION
(BPG022)	AMES3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	.000	55.000	-14.250	SREF 2690.0000 SQ. FT.
(BPG023)	AMES3.5-169 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	-10.000	55.000	-14.250	LREF 474.0000 IN.
(BPG024)	AMES3.5-163 OA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	-20.000	55.000	-14.250	BREF 933.0000 IN.
						XMRP 1075.4000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

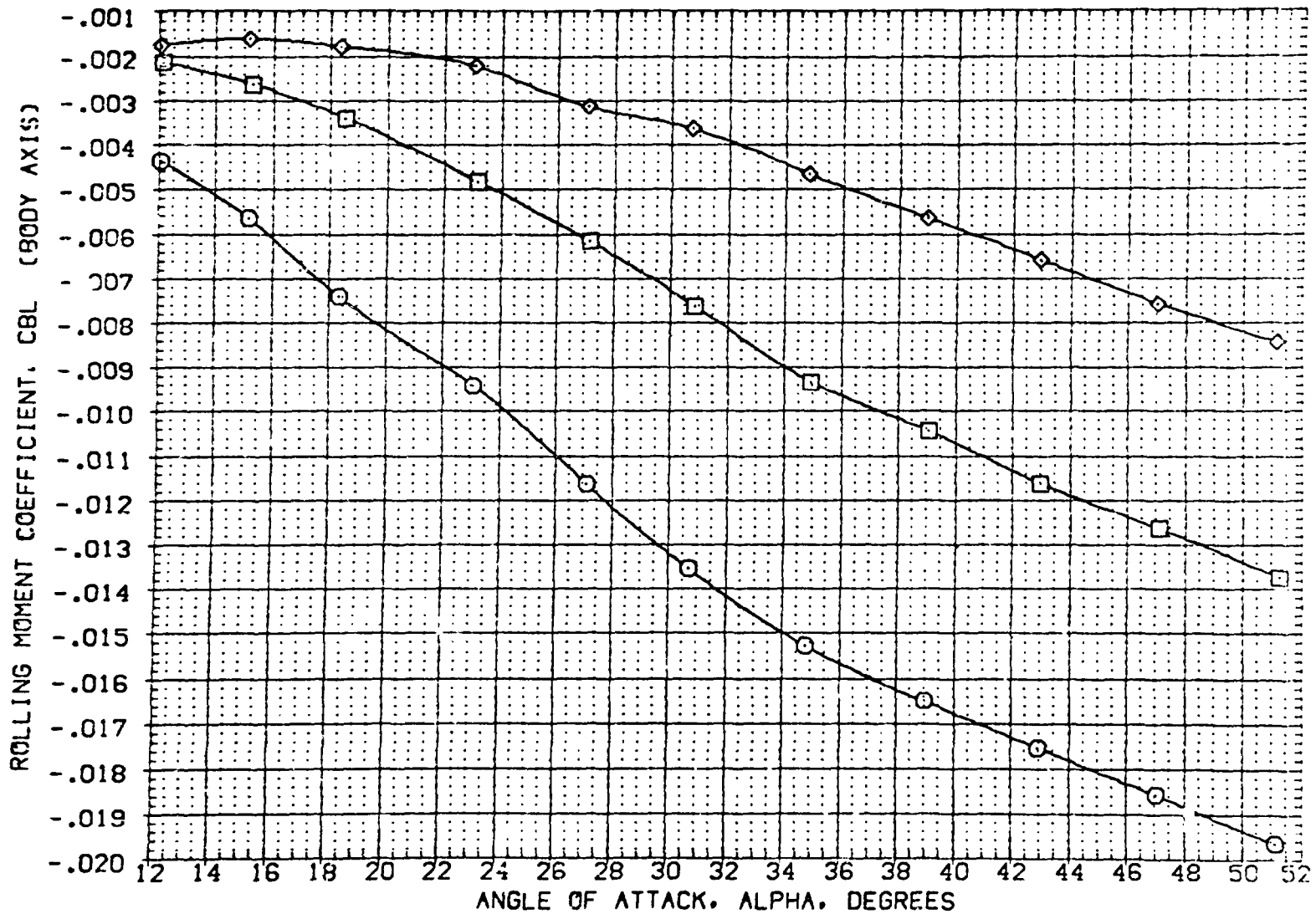


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONF. GURATION DESCRIPTION	AILRON	ELEVON	SPODRK	BDFLAP	REFERENCE INFORMATION
(386012)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	.000	55.000	-14.250	SREF 2690.0000 IN.
(886021)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-10.000	55.000	-14.250	LREF 474.0000 IN.
(386020)	AMES3.5-168 OA23 B19 C7 E23 FS M4 N8 R5 V7 V107	.000	-20.000	55.000	-14.250	BREF 903.0000 IN.
						XREF 1076.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

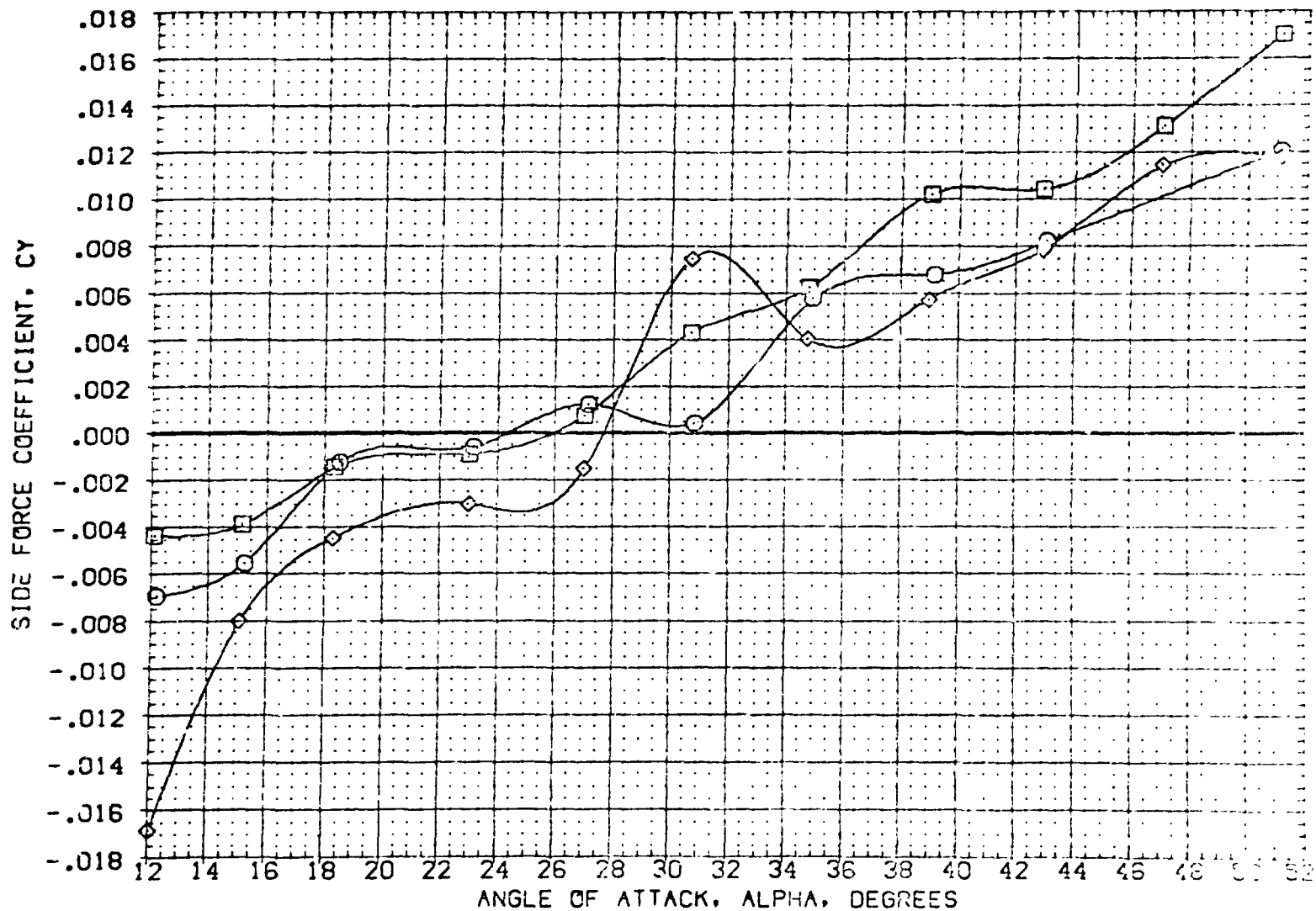


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPOBRK	BOFLAP	REFERENCE INFORMATION
(300012)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	.000	55.000	-14.250	SREF 2090.0000 SQ.FT.
(300021)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-10.000	55.000	-14.250	LREF 474.0000 IN.
(300020)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-20.000	55.000	-14.250	BREF 906.0000 IN.
						XMRP 1076.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

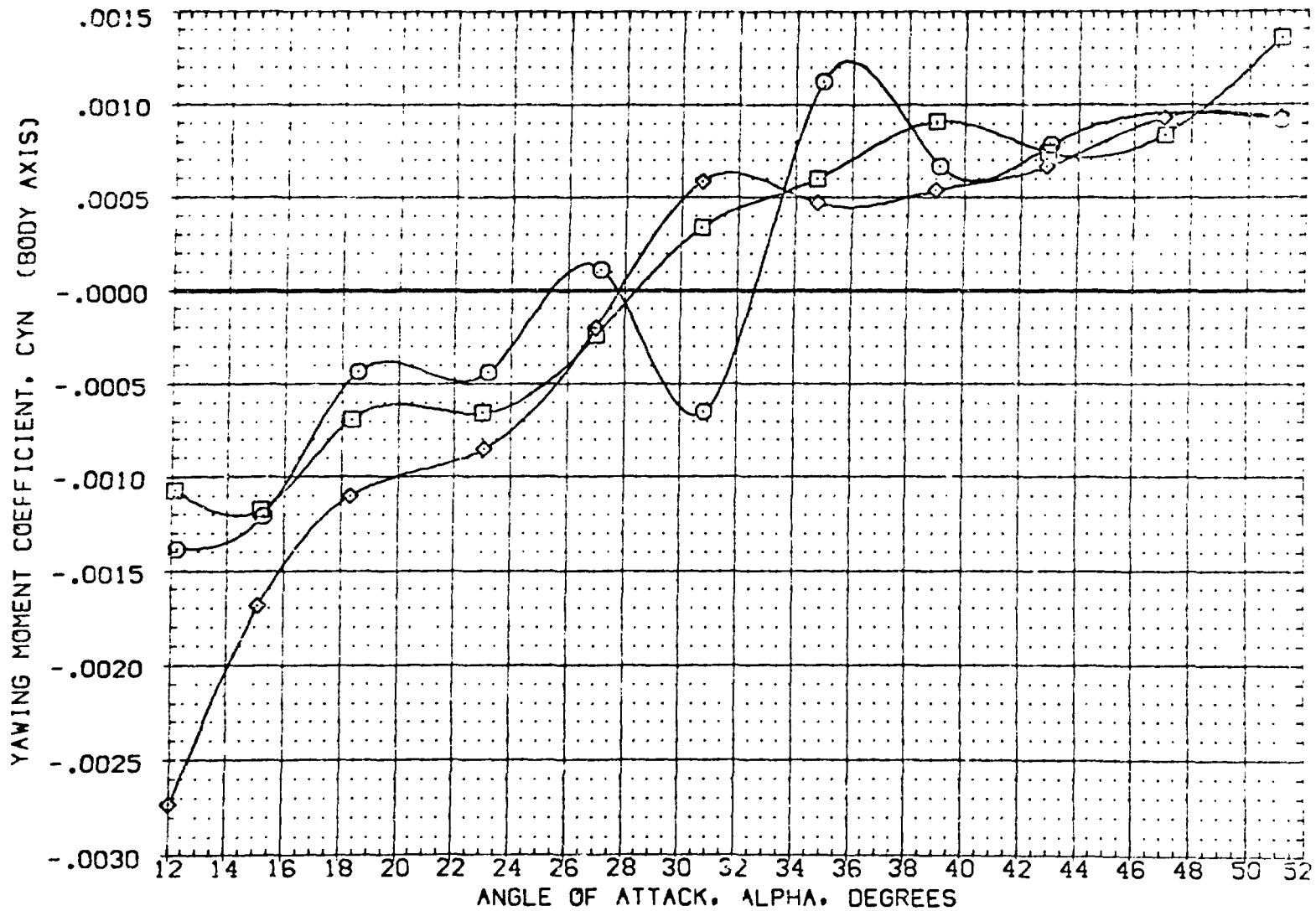


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	ELEVON	SPO2RK	BDFLAP	REFERENCE INFORMATION
(36G012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	.000	55.000	-14.250	SREF 2600.0000 CG, FT.
(36G021)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-10.000	55.000	-14.250	LDF 471.0000
(36G020)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-20.000	55.000	-14.250	LDF 22.0000
						XLDF 1070.0000
						YMR
						ZMR
						SCALE 400.0000
						SCALE .0100 SCALE

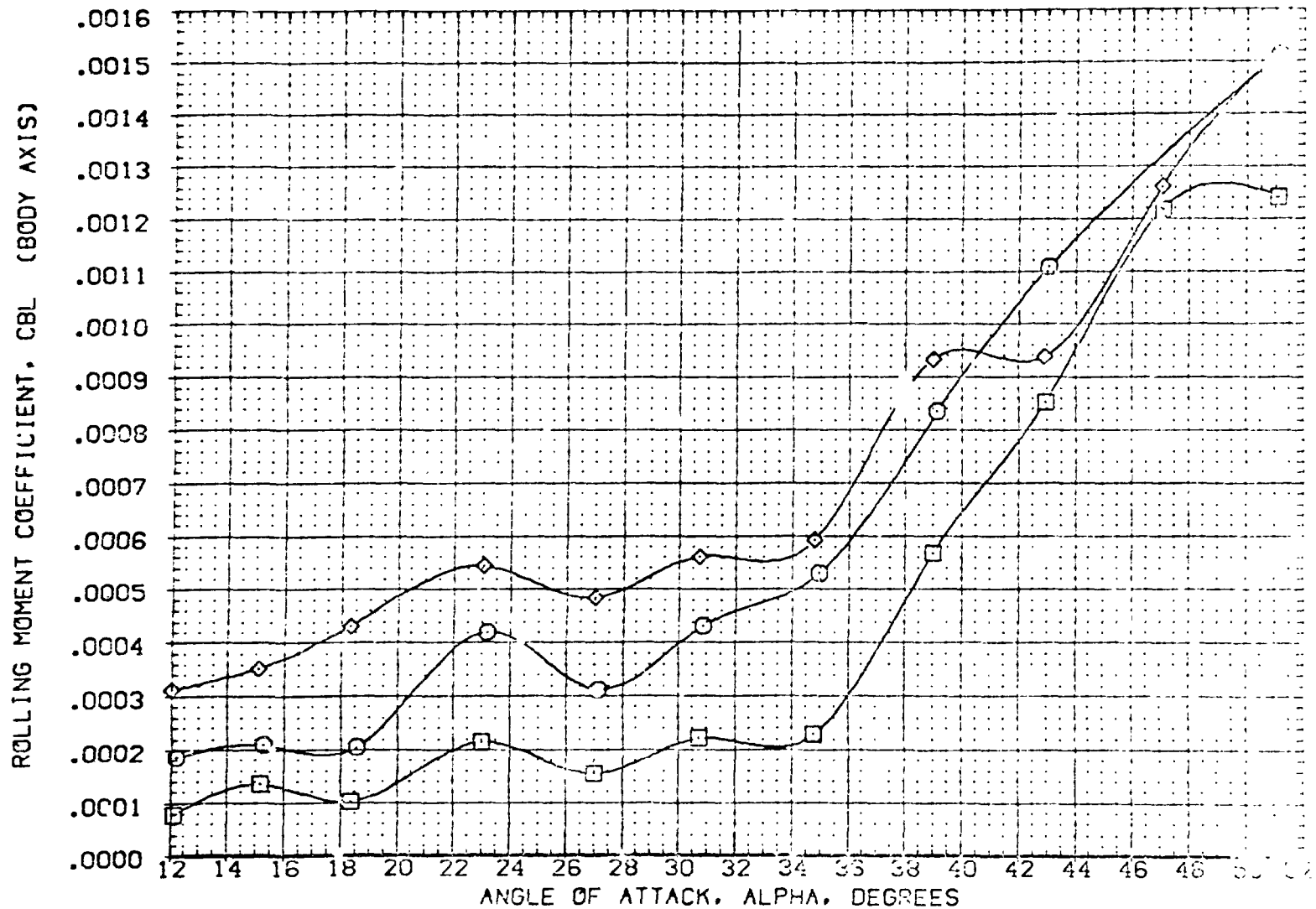


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(M)MACH = 7.32

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	OA	ELEVON	SPDBRK	BOFLAP	REFERENCE INFORMATION
(185022)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	.000	55.000	-14.250	SREF 2699.0000 SQ. FT.
(185023)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-10.000	55.000	-14.250	LREF 474.0000 IN.
(185024)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-20.000	55.000	-14.250	BREF 903.0000 IN.
						XMRP 1078.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

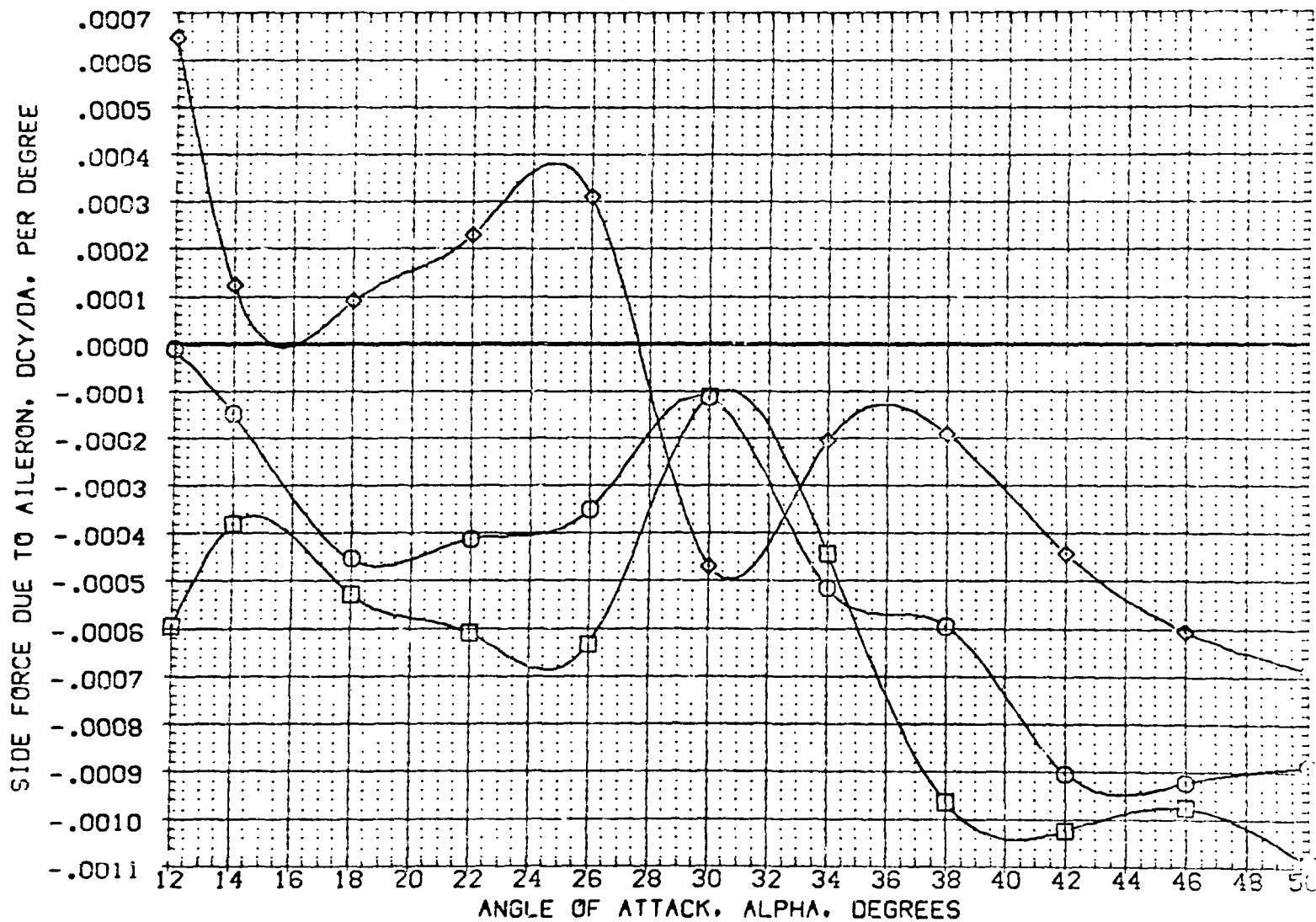


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	SPOBRK	BOFLAP	REFERENCE INFORMATION
(T86022)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	.000	55.000	-14.250	SREF 2000.0000 SQ.FT.
(T86023)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-10.000	55.000	-14.250	LREF 474.0000 IN.
(T86024)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	-20.000	55.000	-14.250	CREF 926.0000 IN.
						YREF 1016.0000 IN.
						YREFP .0000 IN.
						ZREF 400.0000 IN.
						ZREFP .0100 IN.
						SCALE

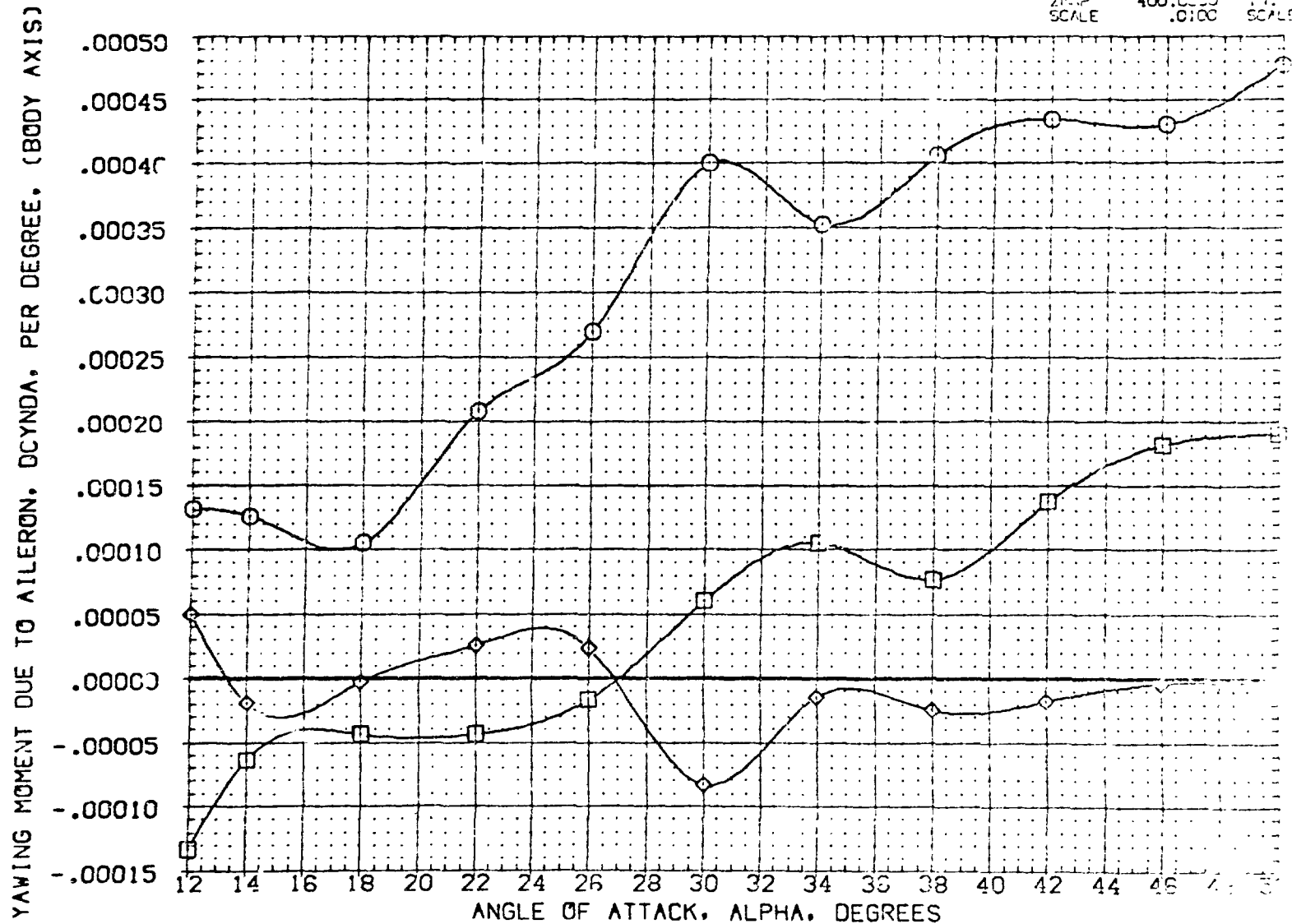


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEV	SPOBRK	BOFLAP	REFERENCE INFORMATION
(186022)	AM S3.5-169 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	.000	55.000	-14.250	SREF 2600.0000 IN.
(186023)	AM S3.5-169 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-10.000	55.000	-14.250	LREF 474.6000 IN.
(186024)	AM S3.5-169 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	-20.000	55.000	-14.250	BREF 905.6000 IN. XMRP 1076.8700 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

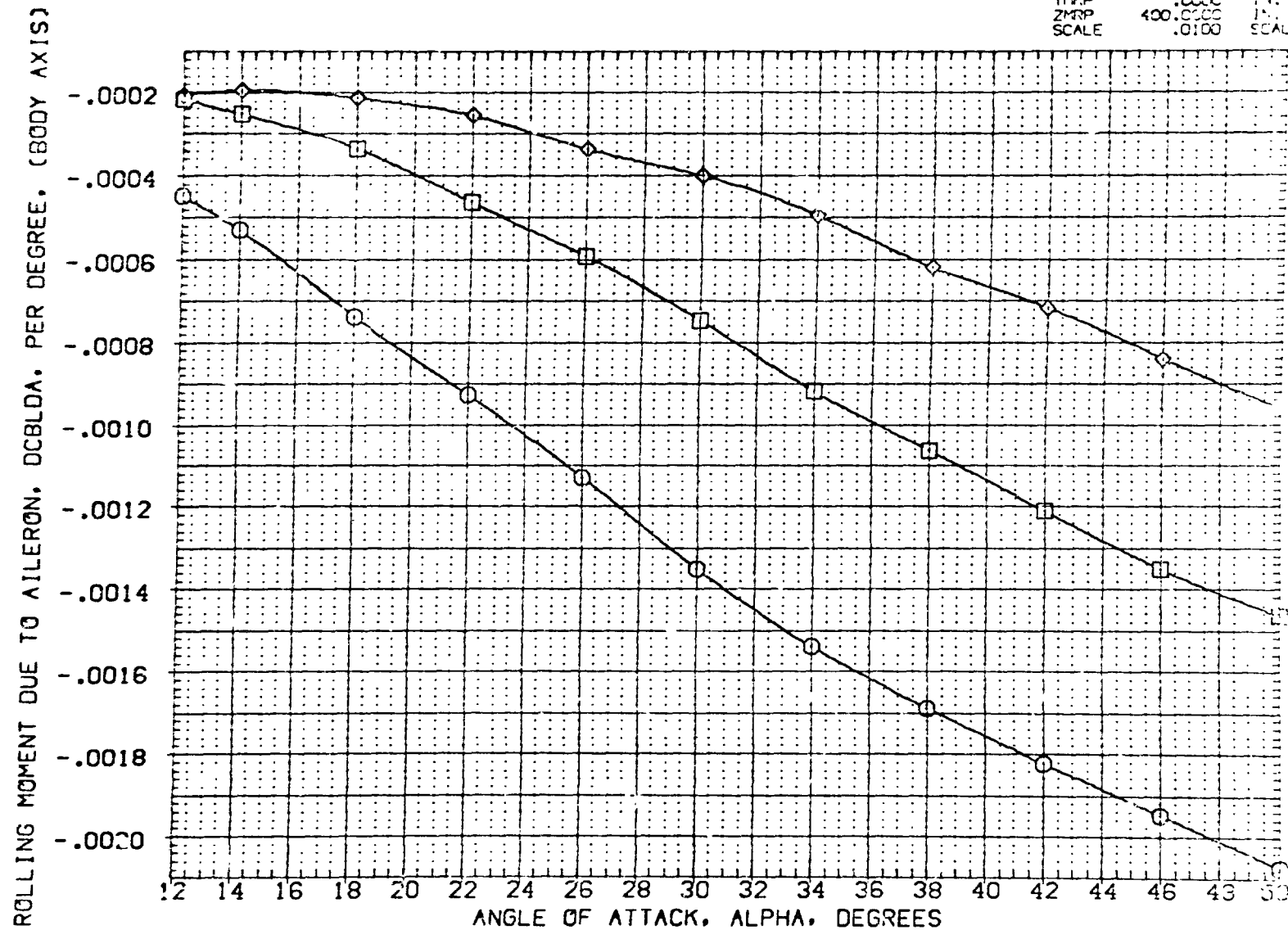


FIG. 11 AILERON EFFECTS

139B CONFIGURATION (0.010-SCALE).

(A) MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOON	RUDDER	REFERENCE INFORMATION
(306012)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 60.00 FT.
(806026)	AMES3.5-168 0A23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	10.000	LREF 474.0000 10.00 FT.
						EREF 210.0000 10.00 FT.
						XREF 1070.0000 10.00 FT.
						YMRP 400.0000 10.00 FT.
						ZMRP 400.0000 10.00 FT.
						SCALE .0100 100.00

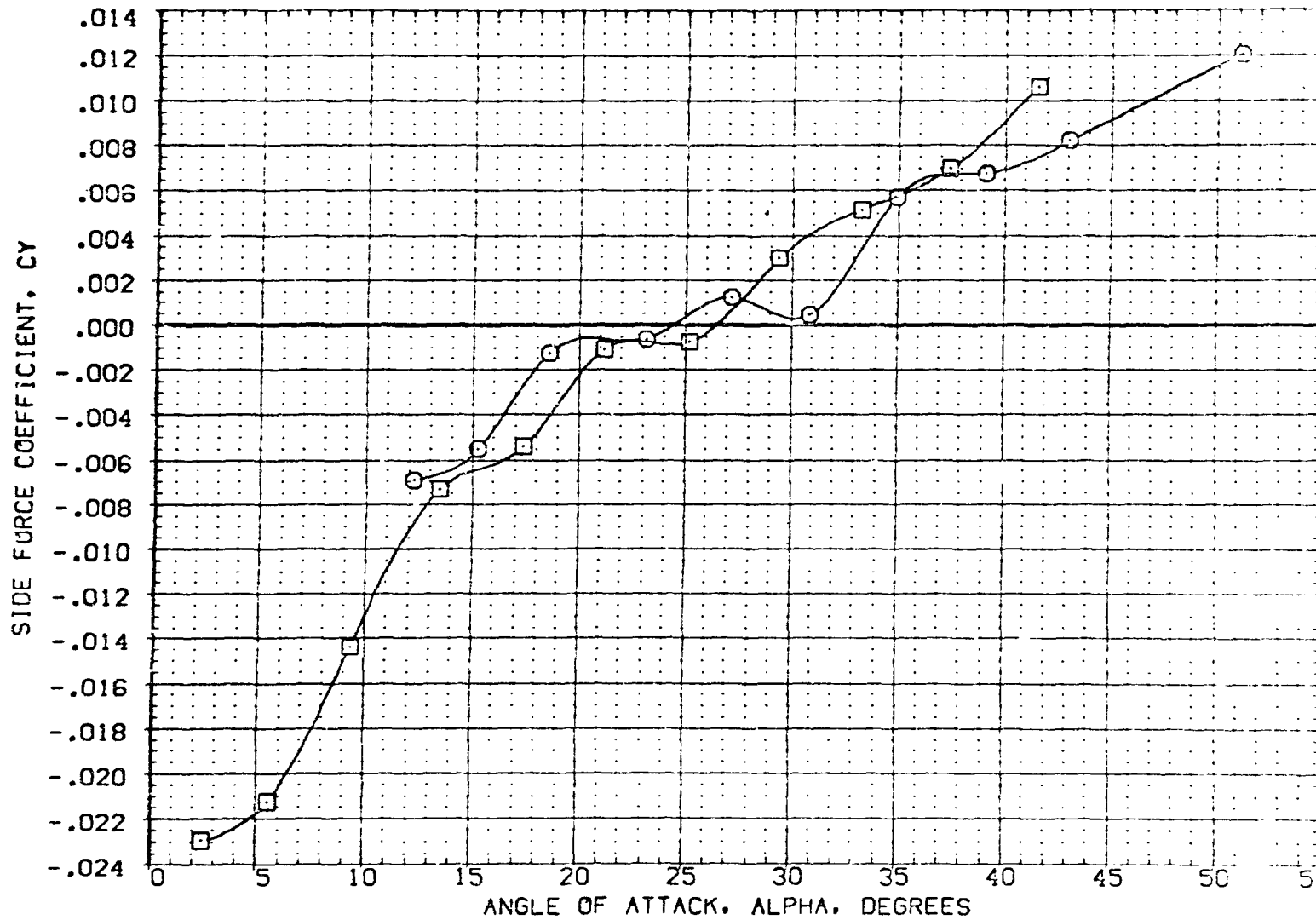


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE)

(A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B 5012)	AMES3.5-158 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	.000	SREF 2690.0000 SC
(B 5026)	AMES3.5-158 DA23 B19 C7 E23 F5 M4 N8 R5 V7 W107	.000	-14.250	55.000	-10.000	LREF 474.2000 IN.
						BREF 936.8500 IN.
						XMRP 1076.4000 IN.
						YMRP .0000 IN.
						ZMRP 100.0000 IN.
						SCALE .0100 SCALE

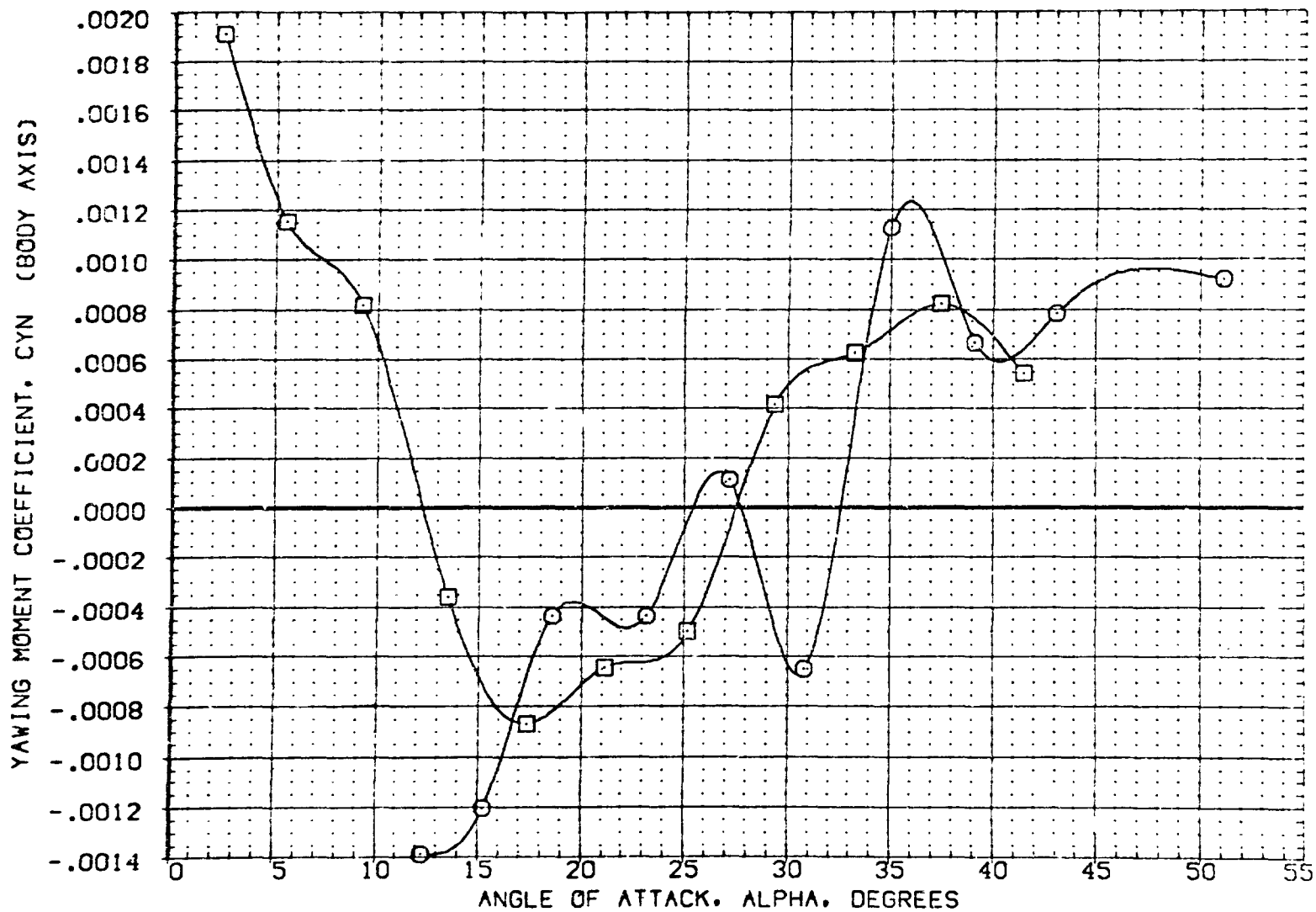


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE),
 (A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPDBRK	RUDDER	REFERENCE INFORMATION
(306012)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	.000	SREF 2690.0000
(006026)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	55.000	-10.000	LREF 474.0000
						CREF 935.0000
						XREF 1076.0000
						YMRP .0000
						ZMRP .0000
						SCALE .0100 SCALE

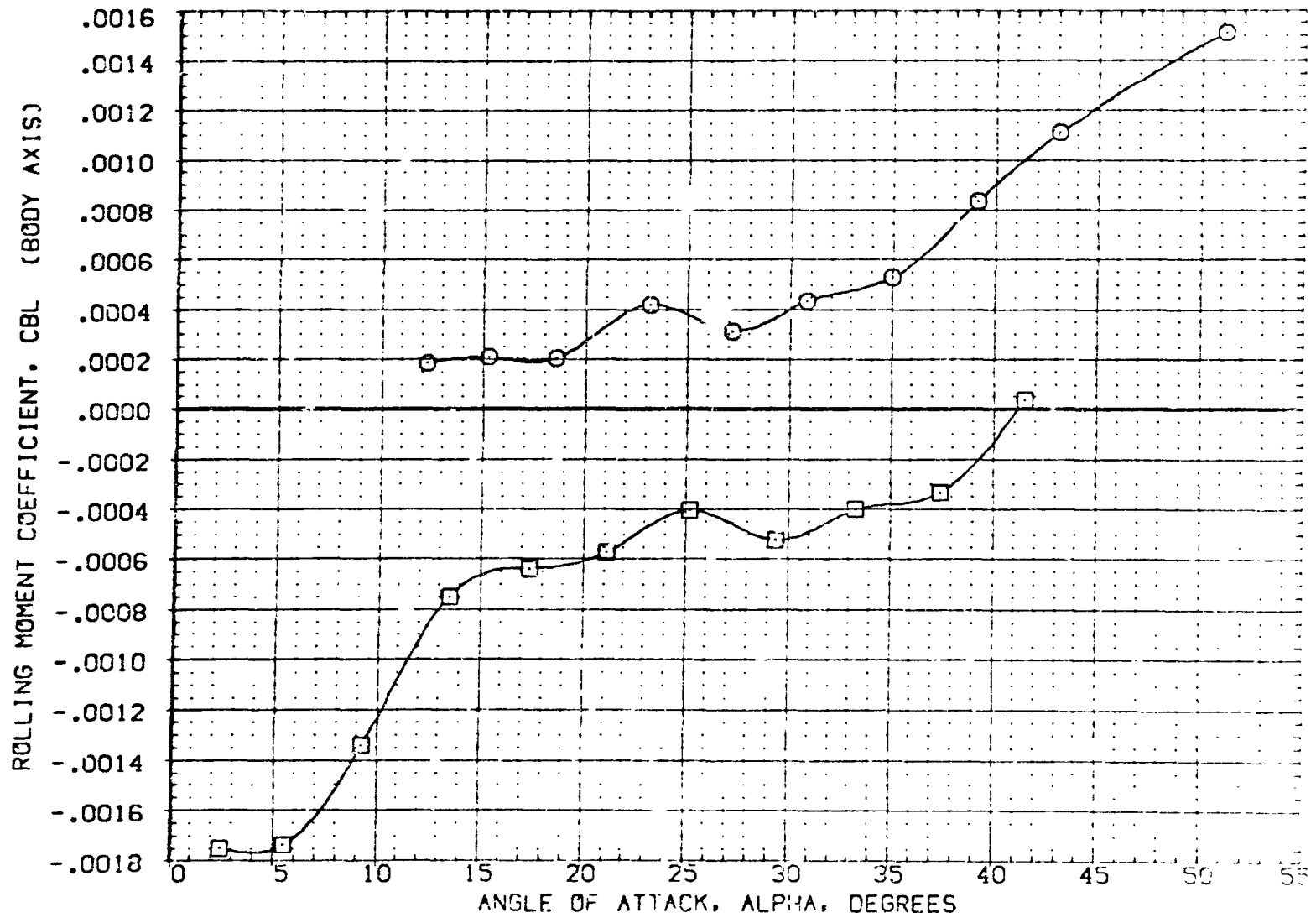


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A) MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BDFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(B96027)	AMES3.5-162 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	85.000	.000	SREF 2680.0000 LREF 474.0000 BREF 1900.0000 YMRP 1070.4000 YMRP .0000 ZMRP 400.0000 SCALE .0100
(B96028)	AMES3.5-168 DA23 B19 C7 E23 F5 H4 N8 R5 V7 V107	.000	-14.250	85.000	-10.000	SCALE .0100

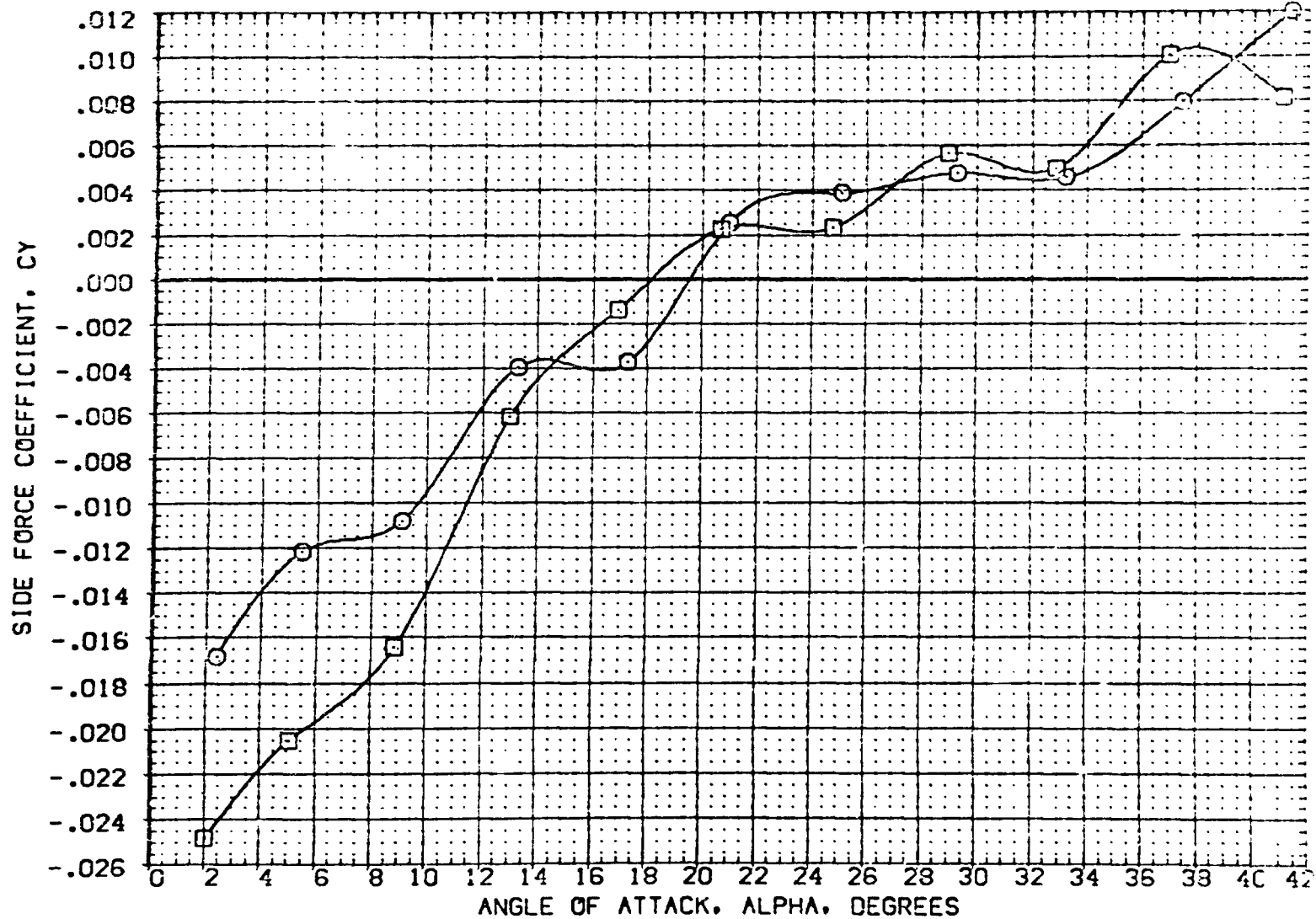


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 1398 CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(886077)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	85.000	.000	SREF 2600.0000
(886026)	AMES3.5-168 DA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	85.000	-10.000	LREF 474.1500
						BOFLP 225.8700
						XMRP 1070.0000
						YMRP .0000
						ZMRP 400.0000
						SCALE .0100 SCALE

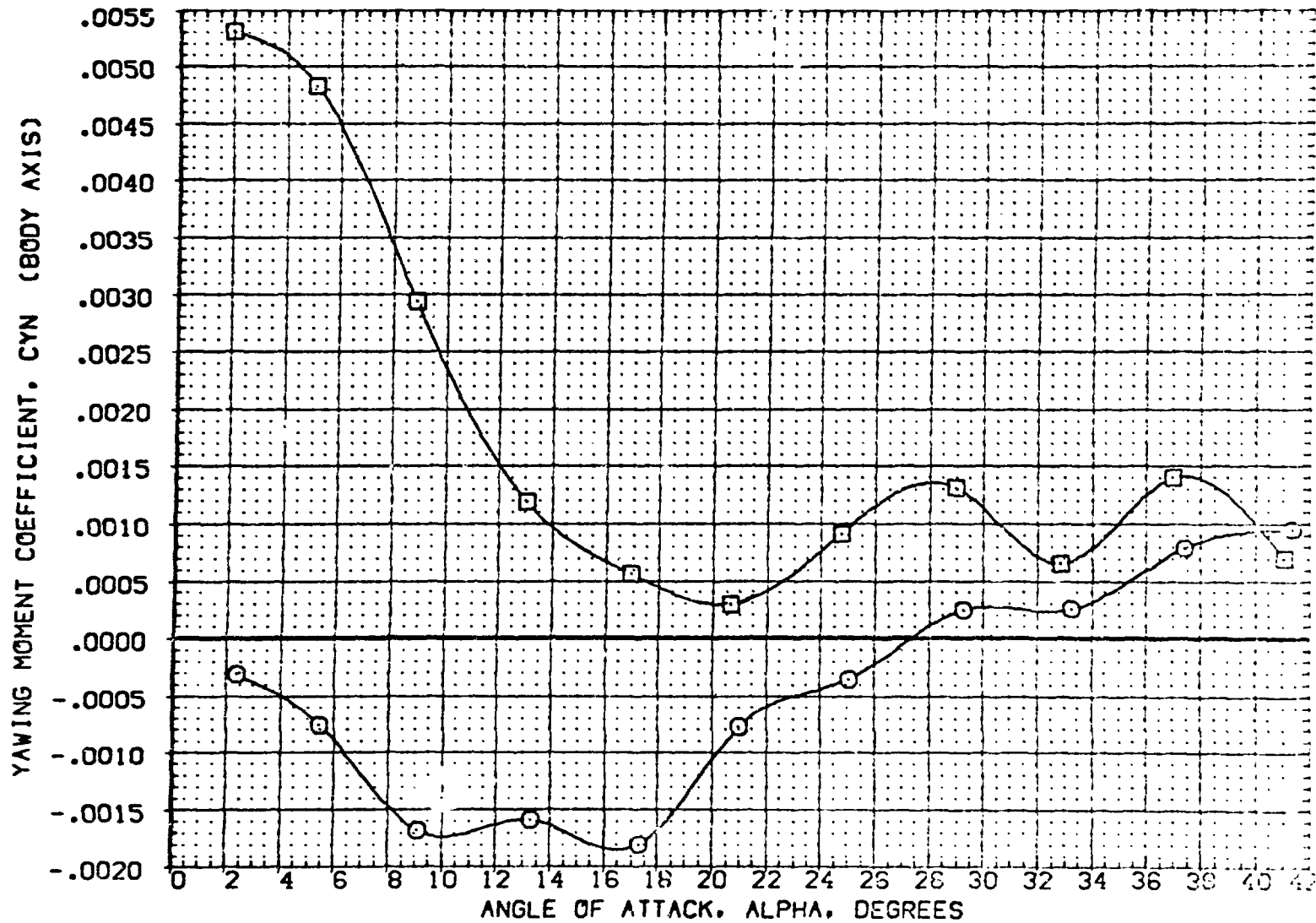


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	BOFLAP	SPOBRK	RUDDER	REFERENCE INFORMATION
(R06027)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	85.000	.000	SREF 2000.0000 IN.
(B06028)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	.000	-14.250	85.000	-10.000	LREF 474.8000 IN. BREF 936.6000 IN. XMRP 1076.4000 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE

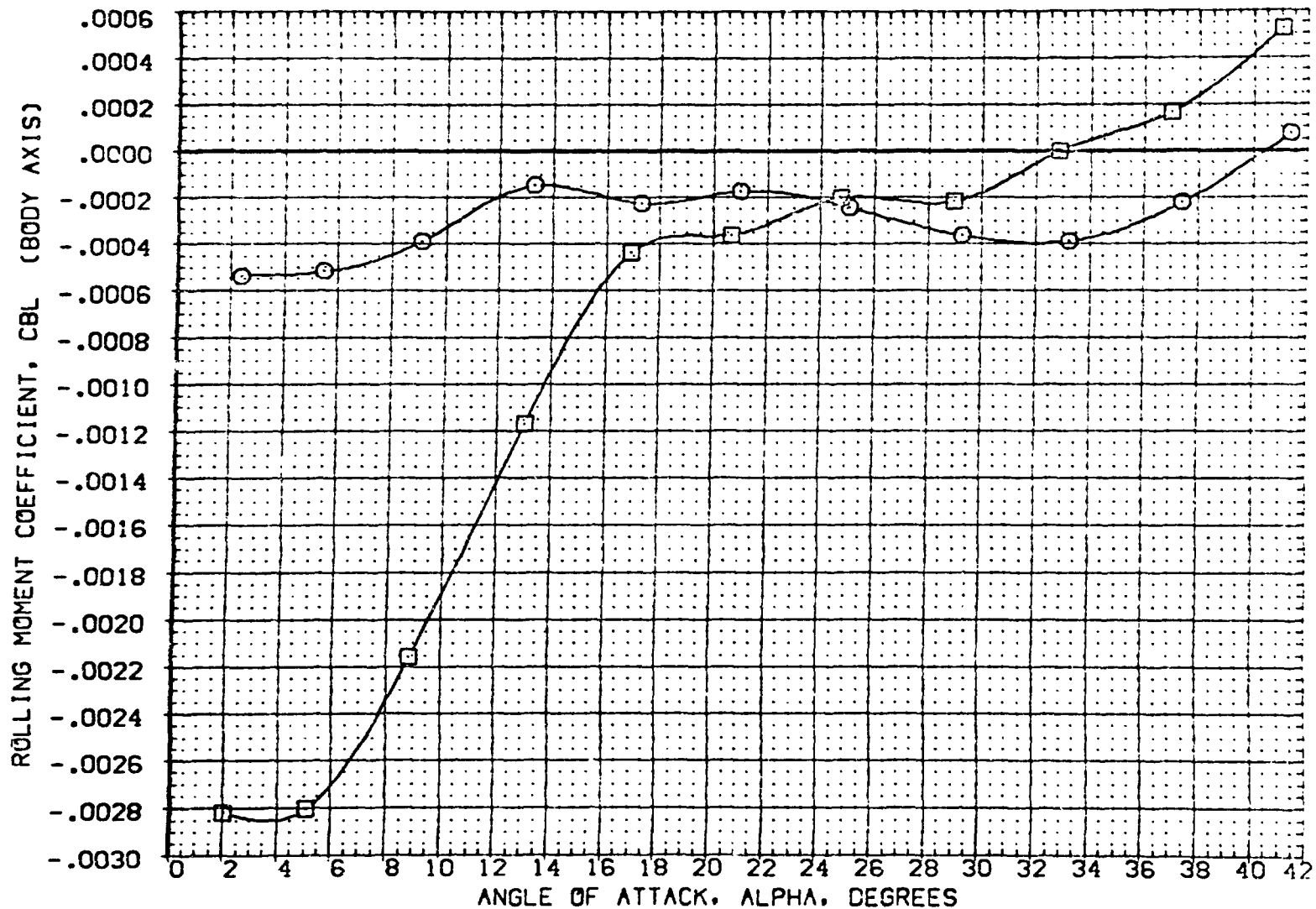


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.32

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DR	SPOBRK	BDFLAP	ELEVON	REFERENCE INFORMATION
(TB6026)	AMES3.5-168 DA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-10.003	55.000	-14.250	.000	SREF 2690.0000 SC.FT. LREF 474.8000 IN. BREF 936.6800 IN. XMRP 1076.4800 IN. YMRP .0000 IN. ZMRP 400.0000 IN. SCALE .0100 SCALE
(TB6028)	AMES3.5-168 DA23 819 C7 E23 F5 H4 N8 R5 V7 V107	-10.000	85.000	-14.250	.000	

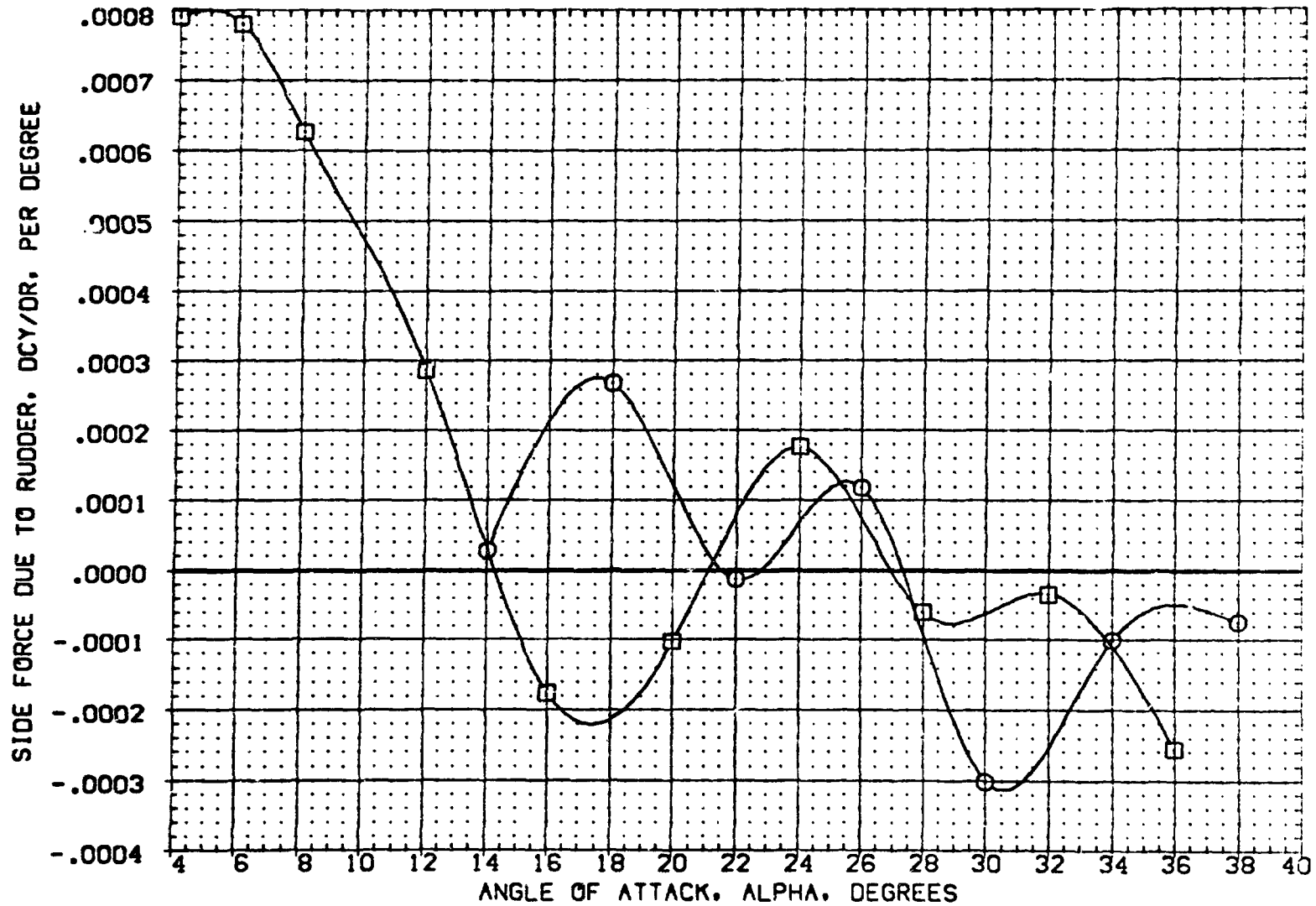


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A) MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DR	SPOON	SOFLAP	ELEVON	REFERENCE INFORMATION
139B	AMES3.5-158 0A23 B:9 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	55.000	-14.250	.000	SREF 2000.000 LREF 474.000 SREF 200.000 XREF 1000.000 YREF 100.000 ZREF 100.000 SCALE 10000
139B	AMES3.5-158 0A23 B:9 C7 E23 F5 M4 N8 R5 V7 W107	-10.000	85.000	-14.250	.000	

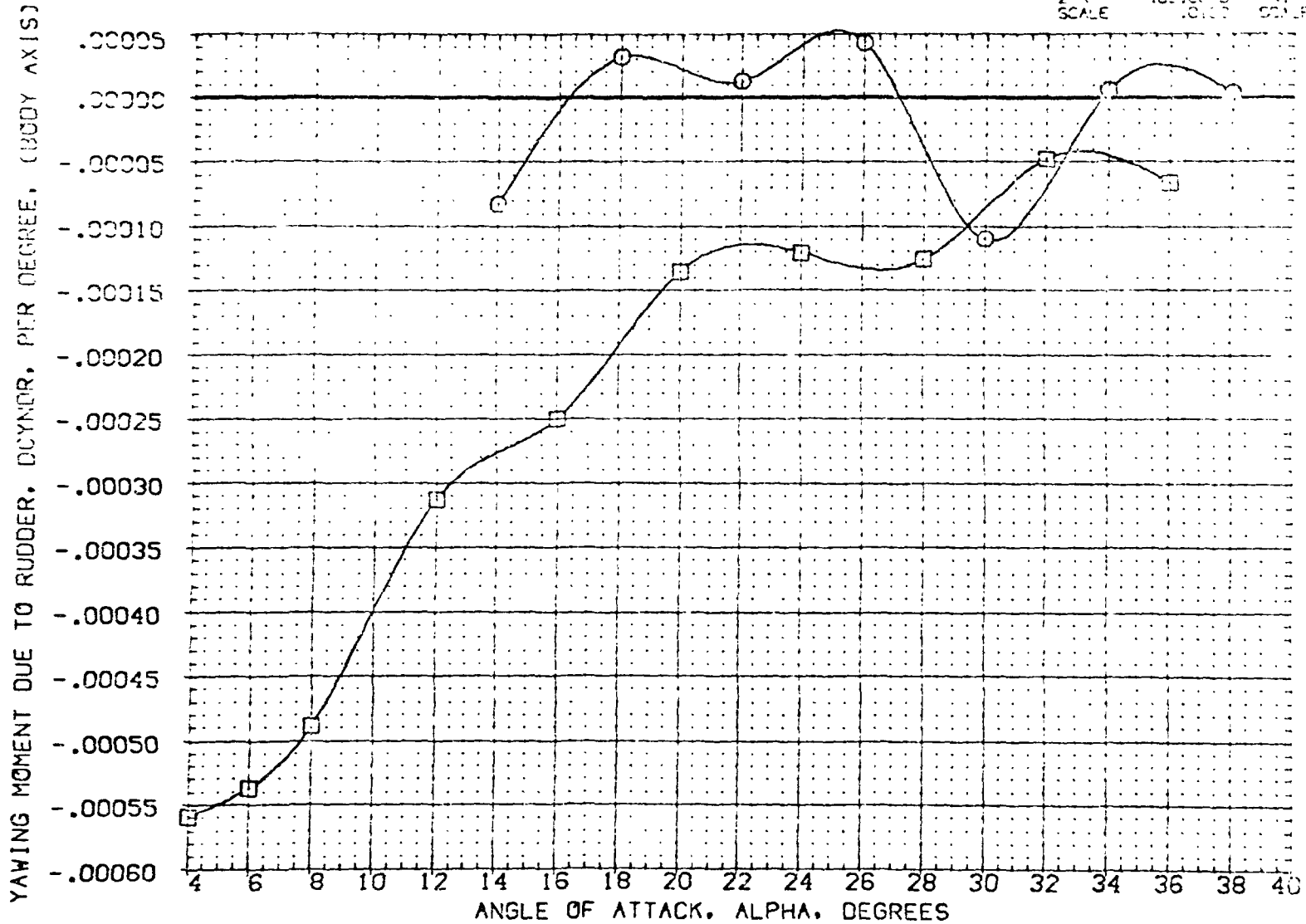


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DR	SPOBRK	BOFLAP	ELEVON	REFERENCE INFORMATION
(T86026)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	55.000	-14.250	.000	SREF 2600.0000 SQ.FT.
(T86028)	AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 V107	-10.000	85.000	-14.250	.000	LRCF 474.0000 IN.
						BRCP 936.0000 IN.
						XMRP 1076.0000 IN.
						YMRP .0000 IN.
						ZMRP 400.0000 IN.
						SCALE .0100 SCALE

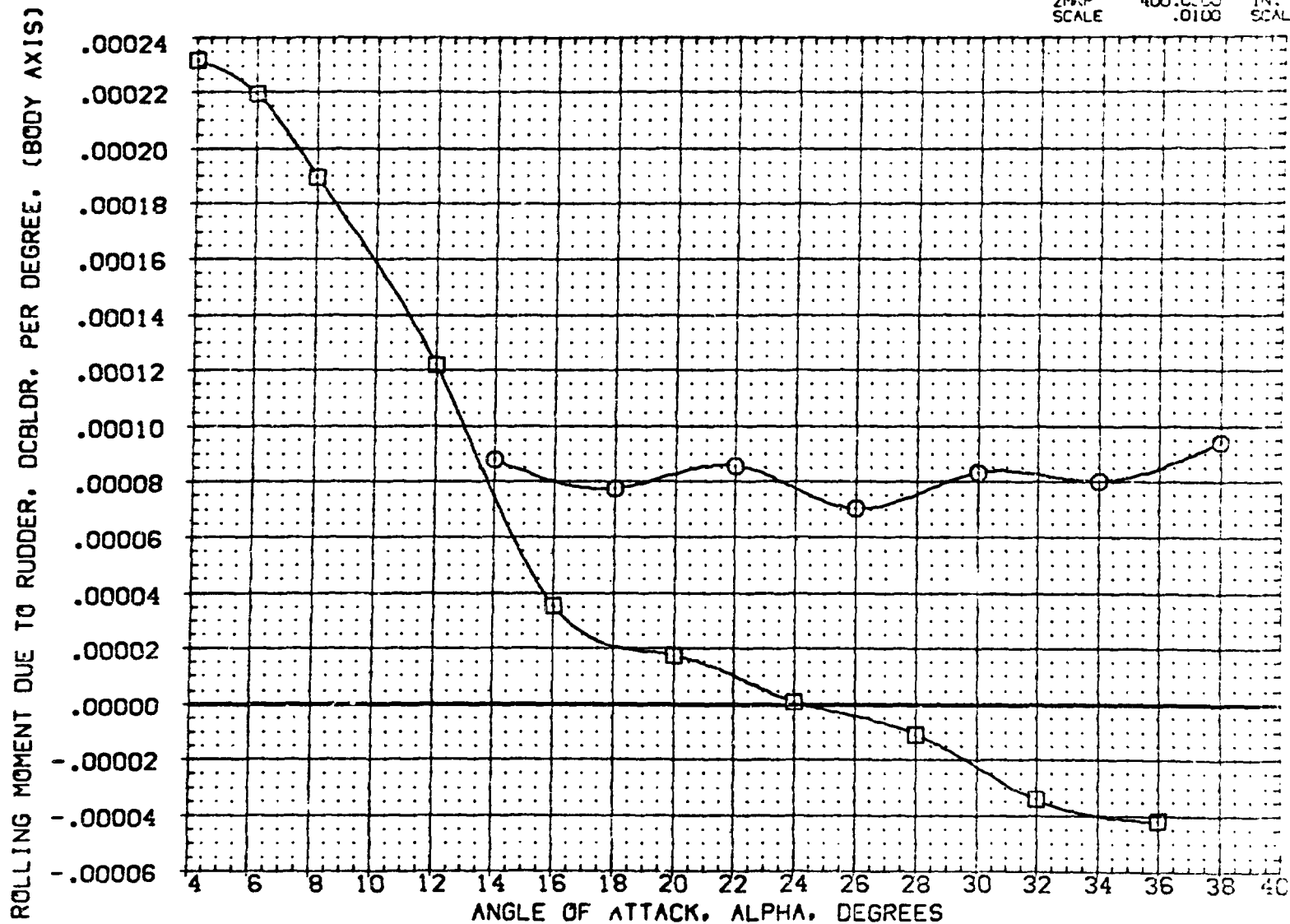


FIG. 12 SPEED BRAKE/RUDDER EFFECTS 139B CONFIGURATION (0.010-SCALE).

(A)MACH = 7.20

APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Systems

AME3.5-166 OA25 B22 C7 E23 F5 H4 R5 V7 W107

(RB6001) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	2.009	-.03007	.08569	-.02011	-.03306	.08459	.02673	-551.34600	-.03967	-.03253	-.03520
5.260	5.001	.03369	.08032	-.01620	.02644	.08298	-.01068	-550.40600	-.04090	-.03427	-.03670
5.260	8.715	.11720	.07414	-.01117	.10461	.09104	-.02613	-550.60900	-.04165	-.03492	-.03746
5.260	12.815	.22965	.07054	-.00718	.20828	.11972	-.03820	-550.31800	-.04203	-.03586	-.03877
5.260	16.823	.35165	.06665	-.00707	.31731	.16557	-.03856	-542.59400	-.04212	-.03705	-.03835
5.260	20.532	.46406	.06379	-.00830	.41221	.22250	-.04094	-531.28300	-.04155	-.03991	-.03998
5.260	24.535	.62650	.06464	-.01036	.54309	.31896	-.03847	-537.44300	-.04119	-.03658	-.03762
5.260	28.760	.78884	.06403	-.01669	.66073	.43568	-.03826	-532.47700	-.04060	-.03706	-.03713
5.260	32.738	.95512	.06358	-.02505	.76902	.57001	-.03827	-532.53700	-.04023	-.03572	-.03787
5.260	36.808	1.12276	.06257	-.03516	.86144	.72278	-.03759	-530.86100	-.03883	-.03653	-.03724
5.260	40.824	1.28571	.05975	-.04624	.93386	.88573	-.03585	-529.51400	-.03771	-.03494	-.03461
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 22/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.513	-.04065	.07886	-.02782	-.04272	.07776	-.01881	-.01943	-.01544	-.01473	-.01506
7.320	1.917	-.03463	.07824	-.02663	-.03722	.07704	-.01444	-.01590	-.01963	-.01175	-.01282
7.320	4.938	.01771	.07197	-.01888	.01145	.07323	-.01597	-.01677	-.02053	-.01313	-.01408
7.320	8.729	.08874	.06642	-.00925	.07763	.07912	-.01607	-.01737	-.02053	-.01304	-.01461
7.320	12.858	.18480	.06196	.00012	.16638	.10153	-.02038	-.02088	-.01816	-.01710	-.01731
7.320	16.810	.30439	.06118	.00739	.27370	.14658	-.01677	-.01807	-.02047	-.01371	-.01471
7.320	20.544	.41767	.06054	.01162	.36987	.20328	-.02055	-.02086	-.01860	-.01690	-.01732
7.320	24.543	.57333	.06212	.01367	.49572	.29466	-.01725	-.01816	-.01924	-.01204	-.01389
7.320	28.863	.72957	.05944	.01301	.61025	.40424	-.01947	-.01959	-.01795	-.01600	-.01588
7.320	32.797	.89128	.05054	.00872	.71641	.53366	-.01820	-.01830	-.01658	-.01558	-.01464
7.320	36.908	1.06676	.05927	.00118	.81739	.68803	-.01625	-.01711	-.01572	-.01470	-.01346
7.320	40.811	1.22820	.05756	-.00507	.89198	.84627	-.01079	-.01182	-.01099	-.00938	-.00876
	GRADIENT	.01716	-.00204	.00259	.01594	-.00130	.00033	.00037	-.00104	.00012	.00002

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W07

(RB001) (13 SEP 73)

REFERENCE DATA

SREF = 2000.0000 80.FT. XMRP = 1078.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SP7BRK = 55.000 RUDDER = .000

RUN NO. 2/0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.961	-.03346	.07703	-.02760	-.03607	.07584	-.00126	.00096	-.00900	.00521	.00094
10.290	3.009	.01523	.07009	-.02034	.00905	.07115	-.00231	.00049	-.00871	.00426	.00012
10.290	4.095	.08225	.06425	-.01097	.07160	.07595	-.00274	.00011	-.00823	.00610	.00013
10.290	12.804	.17581	.06038	-.00148	.15806	.09784	-.00378	-.00060	-.00769	.00425	.00012
10.290	16.795	.29022	.05474	.00495	.26203	.13626	-.00378	-.00060	-.00643	.00344	.00114
10.290	20.533	.40102	.05333	.00388	.35473	.19621	-.00735	-.00473	-.00401	-.00204	-.00339
10.290	24.397	.56017	.05386	.01088	.48791	.28043	-.00385	-.00003	-.00403	.00597	.00696
10.290	28.664	.73140	.05255	.00865	.61656	.39695	-.00349	-.00035	-.00307	.00482	.00919
10.290	32.549	.88838	.04483	.00494	.72473	.51576	-.00275	-.00060	-.00091	.00769	.00696
10.290	36.661	1.05752	.06312	-.00534	.81064	.68206	-.00084	.00196	.00197	.00655	.00697
10.290	40.701	1.22295	.06215	-.01513	.88662	.84461	.00591	.00600	.00511	.01140	.00921
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



AMES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(RB6002) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 34.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AIRLON = .000 BDLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 9/ 0 RN/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.262	.19217	.06776	-.00678	.17340	.10703	-.03218	.25802	-.03812	-.02761	-.03263
5.260	13.439	.22626	.06729	-.00613	.20443	.11803	-.03278	.25762	-.03825	-.02835	-.03320
5.260	17.126	.34269	.06488	-.00588	.30838	.16292	-.03276	.25905	-.03830	-.02815	-.03334
5.260	20.944	.47271	.06289	-.00714	.41900	.22770	-.03768	.11337	-.03667	-.03213	-.03234
5.260	25.021	.64010	.06276	-.00944	.55349	.32750	-.03393	.25684	-.03731	-.02744	-.03299
5.260	28.078	.80770	.06375	-.01570	.67648	.44590	-.03366	.25447	-.03607	-.02767	-.03214
5.260	32.820	.97896	.06306	-.02371	.73852	.58380	-.03209	.25046	-.03466	-.02713	-.03045
5.260	36.771	1.15434	.06104	-.03375	.88812	.73990	-.03176	.24605	-.03345	-.02850	-.02876
5.260	41.056	1.33958	.05619	-.04419	.97322	.92221	-.03087	.24141	-.03282	-.02781	-.02716
	GRADIENT	.04014	-.00030	-.00126	.02879	.02784	.00007	.00020	.00020	.00003	.00019

RUN NO. 26/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.023	.15301	.06337	-.00253	.13645	.09385	-.01818	-.01759	-.01805	-.01757	-.01617
7.320	13.228	.18528	.06302	-.00065	.16594	.10375	-.01838	-.01735	-.01804	-.01765	-.01665
7.320	17.139	.29925	.06102	.00560	.26798	.14650	-.01869	-.01790	-.01804	-.01859	-.01669
7.320	20.872	.42432	.06022	.003971	.37502	.20745	-.02184	-.02016	-.01802	-.01960	-.01860
7.320	25.052	.58398	.06121	.01111	.50312	.30274	-.01996	-.01927	-.01856	-.01823	-.01740
7.320	28.929	.74052	.06167	.00966	.61829	.41218	-.01906	-.01876	-.01804	-.01756	-.01661
7.320	32.738	.90115	.06132	.00557	.72485	.53892	-.01838	-.01753	-.01674	-.01584	-.01517
7.320	36.904	1.06198	.05942	-.00281	.82952	.69721	-.01816	-.01688	-.01543	-.01797	-.01368
7.320	40.976	1.25673	.05762	-.01286	.91103	.86759	-.01679	-.01551	-.01395	-.01367	-.01245
	GRADIENT	.03828	-.00014	-.00024	.02762	.02619	.00005	.00006	.00012	.00007	.00013

RUN NO. 8/ 0 RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	11.984	.14595	.06406	-.00452	.12947	.09297	.00053	-.00199	-.00276	.00051	.00050
10.290	13.232	.17798	.06303	-.00223	.15883	.10209	-.00040	-.00217	-.00277	.00020	.00008
10.290	17.070	.28924	.06229	.00327	.25821	.14446	-.00061	-.00235	-.00278	.00057	.00052
10.290	20.691	.40534	.06261	.00477	.35707	.20179	-.00499	-.00496	-.00274	-.00359	-.00264
10.290	24.962	.57816	.06428	.00791	.49703	.30226	-.00120	-.00218	-.00157	.00125	.00303
10.290	28.780	.73913	.06581	.00422	.61614	.41354	-.00070	-.00102	-.00035	.00267	.00602
10.290	32.592	.90498	.06499	-.00013	.72691	.54305	-.00060	-.00088	.00047	.00269	.00550
10.290	36.745	1.09399	.06551	-.00954	.83743	.70697	.00030	-.00014	.00146	.00320	.00525
10.290	40.812	1.27120	.06299	-.02408	.92095	.87851	.00241	.00097	.00215	.00471	.00523
	GRADIENT	.03934	.00006	-.00051	.02845	.02679	.00007	.00012	.00019	.00017	.00024

AMES3.5-188 OA23 222 C7 E23 F5 M4 R5 V7 W107

(RB8003) (13 SEP 73)

REFERENCE DATA

SREF = 2690.0000 34.FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	1.918	-.07930	.10738	.00978	-.08284	.10464	-.03166	-.03341	-.03887	-.03012	-.03279
5.200	4.927	-.00966	.09545	.00886	-.01783	.09427	-.03435	-.03306	-.04066	-.03403	-.03528
5.200	8.628	.07664	.08545	.01141	.06295	.09598	-.03611	-.03563	-.04184	-.03497	-.03673
5.200	12.740	.18496	.07718	.01605	.16339	.11607	-.03754	-.03633	-.04243	-.03606	-.03789
5.200	16.768	.29848	.07071	.02064	.26538	.15381	-.03715	-.03669	-.04244	-.03638	-.03799
5.200	21.529	.41147	.06796	.02343	.36150	.20794	-.04183	-.04118	-.04110	-.04078	-.04062
5.200	24.454	.55085	.06748	.02862	.47351	.26945	-.03867	-.03840	-.04188	-.03649	-.03840
5.200	28.692	.69730	.06602	.03176	.57998	.39269	-.03852	-.03824	-.04108	-.03685	-.03790
5.200	32.627	.84502	.06559	.03231	.67631	.51085	-.03881	-.03847	-.04079	-.03793	-.03780
5.200	36.765	.99692	.06400	.03365	.76032	.64796	-.03747	-.03709	-.03834	-.03575	-.03601
5.200	40.775	1.14293	.06031	.03262	.82613	.79212	-.03627	-.03539	-.03692	-.03520	-.03373
	GRADIENT	.02313	-.00395	-.00031	.02159	-.00345	-.00089	.00012	-.00059	-.00131	-.00083

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.798	-.07765	.09932	-.00331	-.08073	.09684	-.01217	-.01539	-.01527	-.01105	-.01120
7.320	4.928	-.01736	.08640	-.00042	-.02471	.08459	-.01461	-.01572	-.01702	-.01333	-.01369
7.320	8.615	.06067	.07588	.00713	.04862	.08411	-.01598	-.01709	-.01789	-.01494	-.01460
7.320	12.793	.16251	.06945	.01643	.14310	.10371	-.01598	-.01700	-.01789	-.01489	-.01492
7.320	16.805	.27149	.06546	.02774	.24097	.14115	-.01598	-.01750	-.01789	-.01519	-.01493
7.320	20.531	.37845	.06479	.03606	.33168	.19340	-.01852	-.01902	-.01658	-.01746	-.01617
7.320	24.578	.52084	.06527	.04568	.44651	.27599	-.01551	-.01704	-.01658	-.01333	-.01377
7.320	28.707	.67177	.06506	.05384	.55795	.37974	-.01535	-.01677	-.01576	-.01341	-.01369
7.320	32.668	.81969	.06606	.05960	.65437	.49806	-.01492	-.01626	-.01449	-.01304	-.01269
7.320	36.763	.97074	.06382	.06191	.73947	.63213	-.01387	-.01558	-.01271	-.01329	-.01166
7.320	40.754	1.12261	.06273	.06368	.80945	.78037	-.01265	-.01420	-.01083	-.00998	-.00996
	GRADIENT	.01926	-.00413	.00092	.01789	-.00391	-.00078	-.00010	-.00056	-.00073	-.00079



AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(RB6003) (13 SEP 73)

REFERENCE DATA

SREF = 2097.0000 30.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 6/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.914	-.05696	.09654	-.00847	-.06016	.09458	-.00010	-.00142	-.00690	.00446	.00245
10.290	4.963	-.00089	.08448	-.00485	-.00820	.08409	-.00181	-.00253	-.00778	.00187	.00051
10.290	8.616	.07158	.07360	.00215	.05975	.08349	-.00430	-.00343	-.00891	.00160	-.00120
10.290	12.747	.16825	.06678	.01242	.14937	.10226	-.00451	-.00382	-.00771	.00113	-.00144
10.290	16.781	.28237	.06501	.02234	.25158	.14376	-.00452	-.00379	-.00695	.00141	-.00123
10.290	20.483	.38122	.06527	.03100	.33428	.19454	-.00743	-.00777	-.00529	-.00358	-.00429
10.290	24.487	.53785	.06730	.03906	.46158	.28418	-.00380	-.00333	-.00482	.00292	.00172
10.290	28.692	.68936	.06775	.04552	.57219	.39039	-.00306	-.00333	-.00410	.00213	.00286
10.290	32.587	.83498	.06974	.05085	.66598	.50846	-.00223	-.00282	-.00289	.00517	.00286
10.290	36.664	.99510	.06998	.05522	.75643	.65033	-.00106	-.00170	-.00067	.00795	.00287
10.290	40.751	1.15409	.06814	.05727	.82980	.80498	.00253	.00070	.00157	.00312	.00415
	GRADIENT	.01839	-.00395	.00119	.01704	-.00344	-.00056	-.00036	-.00029	-.00085	-.00064

AMES3.3-188 CASE 3 B22 C7 E23 F5 M4 R5 V7 W107

(R8003A) (13 SEP 73)

REFERENCE DATA

XREF = 2890.0000 88.FT. XMRP = 1076.4800 IN.
 YREF = 474.6000 IN. YMRP = .0000 IN.
 ZREF = 938.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAT = -14.250
 SPDBRK = 55.000 RUDDCR = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	1.916	-.07930	.10736	.00978	-.08284	.10464	-.03166	-.03341	-.03887	-.03012	-.03279
5.200	4.927	-.00966	.09345	.00886	-.01783	.09427	-.03435	-.03306	-.04066	-.03405	-.03328
5.200	8.628	.07664	.08545	.01141	.06295	.09598	-.03611	-.03563	-.04184	-.03497	-.03673
5.200	12.740	.18496	.07718	.01605	.16339	.11607	-.03754	-.03633	-.04243	-.03606	-.03789
5.200	16.768	.29848	.07071	.02064	.26538	.15381	-.03715	-.03669	-.04244	-.03638	-.03799
5.200	20.529	.41147	.06796	.02343	.36150	.20794	-.04183	-.04118	-.04110	-.04078	-.04062
5.200	24.454	.55085	.06748	.02862	.47351	.28945	-.03867	-.03840	-.04188	-.03649	-.03840
5.200	28.692	.69730	.06602	.03176	.57998	.39269	-.03852	-.03824	-.04108	-.03685	-.03790
5.200	32.627	.84502	.06559	.03231	.67631	.51085	-.03881	-.03847	-.04079	-.03793	-.03780
5.200	36.765	.99692	.06400	.03365	.76032	.64796	-.03747	-.03709	-.03834	-.03575	-.03601
5.200	40.773	1.14293	.06031	.03262	.82613	.79212	-.03627	-.03539	-.03692	-.03520	-.03373
	GRADIENT	.02313	-.00395	-.00031	.02159	-.00345	-.00089	.00012	-.00059	-.00131	-.00083

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.798	-.07765	.09932	-.00331	-.08073	.09684	-.01217	-.01539	-.01527	-.01105	-.01120
7.320	4.928	-.01736	.08640	-.00342	-.02471	.08459	-.01461	-.01572	-.01702	-.01335	-.01369
7.320	8.613	.06067	.07588	.00713	.04862	.08411	-.01598	-.01709	-.01789	-.01494	-.01460
7.320	12.793	.16251	.06945	.01643	.14310	.10371	-.01598	-.01700	-.01789	-.01489	-.01492
7.320	15.803	.27149	.06546	.02774	.24097	.14115	-.01598	-.01750	-.01789	-.01519	-.01493
7.320	20.531	.37845	.06479	.03606	.33168	.19340	-.01852	-.01902	-.01658	-.01746	-.01617
7.320	24.578	.52084	.06527	.04568	.44651	.27599	-.01551	-.01704	-.01658	-.01333	-.01377
7.320	28.707	.67177	.06506	.05384	.55795	.37974	-.01535	-.01677	-.01576	-.01341	-.01369
7.320	32.868	.81969	.06606	.05960	.65437	.49806	-.01492	-.01526	-.01449	-.01304	-.01269
7.320	36.763	.97074	.06382	.05191	.73547	.63213	-.01387	-.01558	-.01271	-.01329	-.01166
7.320	40.754	1.12261	.06273	.06368	.80945	.78037	-.01265	-.01420	-.01083	-.00998	-.00996
	GRADIENT	.01926	-.00413	.00092	.01789	-.00391	-.00078	-.00010	-.00056	-.00073	-.00079



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

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AMESS.5-138 OA23 B22 C7 E23 F5 H4 R5 V7 W07

(RB013A) (13 SEP 73)

REFERENCE DATA

BREF = 2000.0000 30.FT. XMRP = 1076.4800 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = -14.000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 7/0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CF1	CP2	CP3	CP4	CP5
10.290	1.842	-.08116	.09856	-.00748	-.08395	.09619	-.00290	-.00453	-.00192	-.00049	-.00012
10.290	4.860	-.02349	.08474	-.00545	-.03062	.08244	-.00444	-.00472	-.00243	-.00170	-.00175
10.290	8.675	.05002	.07185	.00159	.03862	.07857	-.00647	-.00602	-.00444	-.00364	-.00434
10.290	12.799	.14768	.06571	.01064	.12945	.09680	-.00642	-.00645	-.00545	-.00338	-.00442
10.290	16.911	.26053	.06312	.02208	.23090	.13618	-.00642	-.00654	-.00562	-.00422	-.00446
10.290	20.572	.37960	.06458	.03012	.33270	.19365	-.00743	-.00729	-.00559	-.00462	-.00478
10.290	24.706	.51556	.06453	.03829	.44139	.27411	-.00578	-.00623	-.00580	-.00337	-.00433
10.290	28.849	.67167	.06642	.04487	.55626	.36226	-.00431	-.00517	-.00444	-.00109	-.00133
10.290	32.826	.83025	.06837	.05043	.66061	.50753	-.00285	-.00359	-.00343	-.00052	.00092
10.290	36.885	.98704	.06841	.05292	.74842	.64715	-.00079	-.00239	-.00197	.00441	.00138
10.290	40.740	1.13944	.06680	.05302	.81972	.79425	.00309	.00177	.00001	.00472	.00366
	GRADIENT	.01781	-.00427	.00063	.01647	-.00425	-.00048	-.00006	-.00016	-.00037	-.00050

AMES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(RB0004) (13 SEP 73)

REFERENCE DATA

WREF = 2690.0000 96.FT. WMRP = 1076.4300 IN.
 UREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 24/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.851	-.05068	.08062	-.01616	-.05324	.07894	-.01151	-.01373	-.01589	-.01080	-.01017
7.320	4.943	.00546	.07344	-.01050	-.00089	.07364	-.01341	-.01387	-.01736	-.01227	-.01226
7.320	8.659	.07876	.06759	-.00031	.06769	.07868	-.01461	-.01550	-.01753	-.01321	-.01291
7.320	12.818	.17486	.06368	.01214	.15637	.10089	-.01460	-.01559	-.01752	-.01312	-.01295
7.320	16.791	.28678	.06213	.02239	.25660	.14232	-.01460	-.01577	-.01713	-.01336	-.01286
7.320	20.489	.39015	.06100	.03044	.34411	.19370	-.01772	-.01783	-.01504	-.01524	-.01482
7.320	24.572	.53965	.06225	.03962	.46489	.28102	-.01460	-.01572	-.01621	-.01097	-.01240
7.320	28.716	.68821	.06233	.04637	.57362	.38533	-.01460	-.01558	-.01492	-.01098	-.01129
7.320	32.649	.83692	.06105	.05088	.67175	.50291	-.01385	-.01507	-.01343	-.00981	-.00988
7.320	36.791	.99555	.05933	.05174	.76173	.64375	-.01331	-.01446	-.01151	-.01243	-.00933
7.320	40.816	1.14930	.05628	.05073	.83302	.79381	-.01171	-.01257	-.00967	-.01105	-.00770
	GRADIENT	.01815	-.00232	.00183	.01693	-.00172	-.00061	-.00004	-.00048	-.00048	-.00068



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-188)

PAGE 10

AMES3.5-188 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(RB9005) (13 SEP 73)

REFERENCE DATA

BREF = 2990.0000 90.FT. XGRP = 1078.4800 IN.
 LREF = 474.8000 IN. YGRP = .0000 IN.
 BREF = 936.6800 IN. ZGRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 3/ 0 RN/L = 1.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CM	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.980	-.01599	.07714	-.03423	-.01864	.07855	.00421	.00172	-.00452	.00718	.00454
10.290	5.067	.03813	.07119	-.03135	.03169	.07428	.00276	.00097	-.00463	.00597	.00341
10.290	8.751	.11407	.06864	-.02894	.10230	.08520	.00198	.00041	-.00475	.00548	.00258
10.290	12.833	.22281	.06898	-.03175	.20192	.11674	.00129	-.00006	-.00467	.00490	.00227
10.290	16.785	.34782	.07216	-.03833	.31216	.16953	.00105	-.00010	-.00403	.00491	.00227
10.290	20.448	.47550	.07599	-.04972	.41899	.23732	-.00176	-.00250	-.00068	.00026	.00071
10.290	20.662	.48086	.07471	-.04469	.42357	.23958	.00369	.00173	-.00619	.00822	.00444
10.290	24.513	.64751	.08408	-.05708	.55427	.34513	.00072	-.00047	-.00247	.00648	.00468
10.290	28.604	.82682	.09162	-.07384	.68204	.47628	.00131	-.00081	-.00138	.00934	.00635
10.290	32.571	.98985	.09683	-.08255	.78205	.61447	.00239	.00047	.00102	.00641	.00601
10.290	36.682	1.17333	.10070	-.10165	.88082	.78167	.00778	.00467	.00466	.00717	.00837
10.290	40.860	1.35434	.10390	-.11951	.95633	.96460	.01166	.01057	.00953	.01155	.01316
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



AHE3.5-166 OA23 B22 (7 E23 F5 M4 R5 V7 W107

(R00006) (13 SEP 73)

REFERENCE DATA

BRP = 2000.0000 30.FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRP = 938.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 25/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.775	-.07805	.09993	-.00343	-.07911	.09754	-.01388	-.01699	-.01885	-.01514	-.01257
7.320	4.662	-.01492	.08673	-.00117	-.02224	.08515	-.01672	-.01817	-.02080	-.01711	-.01537
7.320	8.610	.06330	.07536	.00394	.05130	.08398	-.01793	-.01936	-.02162	-.01781	-.01631
7.320	12.779	.16413	.06944	.01528	.14470	.10402	-.01799	-.01931	-.02162	-.01818	-.01656
7.320	16.794	.27877	.06582	.02413	.24787	.14356	-.01772	-.01991	-.02092	-.01711	-.01639
7.320	20.472	.38783	.06345	.02975	.34044	.19696	-.02156	-.02218	-.01900	-.02022	-.01840
7.320	24.554	.53882	.06604	.03618	.46246	.28390	-.01719	-.01940	-.01958	-.01571	-.01561
7.320	28.766	.69196	.06632	.04088	.57466	.39113	-.01703	-.01890	-.01901	-.01645	-.01507
7.320	32.678	.84039	.06638	.04381	.67154	.50961	-.01703	-.01894	-.01771	-.01620	-.01379
7.320	36.819	.99090	.06661	.04371	.75974	.65195	-.01608	-.01793	-.01557	-.01640	-.01263
7.320	40.872	1.15411	.06398	.04212	.83084	.80360	-.01439	-.01628	-.01398	-.01442	-.01057
	GRADIENT	.01968	-.00425	.00073	.01831	-.00399	-.00091	-.00038	-.00063	-.00063	-.00090

AMES3.5-188 OA23 822 C7 E23 F3 M4 R5 V7 W107

(RB0007) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDRK = 95.000 RUDDER = .000

RUN NO. 11/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
9.280	1.997	-.02752	.08427	-.02084	-.03044	.08328	.08508	-.02961	-.03665	-.03105	-.03207
9.280	3.051	.03495	.07848	-.01756	.02790	.08126	.02785	-.03381	-.03848	-.03210	-.03405
9.280	8.736	.11917	.07235	-.01324	.10680	.08961	-.01017	-.03586	-.03923	-.03379	-.03538
9.280	12.696	.22743	.06874	-.01144	.20676	.11705	-.03266	-.03599	-.03964	-.03413	-.03606
9.280	16.780	.35232	.06612	-.01274	.31823	.16502	-.03489	-.03619	-.03914	-.03488	-.03535
9.280	20.503	.47570	.06506	-.01845	.42278	.22756	-.03742	-.03836	-.03801	-.03734	-.03663
9.280	24.539	.63754	.06639	-.02277	.55238	.32517	-.03480	-.03563	-.03812	-.03388	-.03597
9.280	28.700	.80435	.06507	-.03173	.67428	.44335	-.03392	-.03542	-.03696	-.03193	-.03321
9.280	32.688	.97185	.06518	-.04352	.78273	.57972	-.03341	-.03530	-.03666	-.03454	-.03251
9.280	36.776	1.15068	.06430	-.05727	.88318	.74040	-.03302	-.03399	-.03585	-.03227	-.03138
9.280	40.874	1.31701	.06198	-.07237	.95531	.90871	-.03058	-.03220	-.03447	-.03099	-.02953
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 21/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.781	-.03616	.07774	-.02702	-.03856	.07657	-.01501	-.01632	-.01842	-.01228	-.01312
7.320	4.869	.01608	.07148	-.02142	.00995	.07258	-.01684	-.01641	-.01977	-.01390	-.01493
7.320	8.623	.09350	.06577	-.01201	.08258	.07902	-.01732	-.01732	-.01985	-.01488	-.01559
7.320	12.749	.19064	.06256	-.00291	.17214	.10309	-.01721	-.01751	-.01977	-.01444	-.01559
7.320	16.787	.31000	.06073	.00229	.27925	.14768	-.01722	-.01769	-.01973	-.01460	-.01559
7.320	20.470	.42841	.06066	.00363	.38014	.20665	-.02005	-.01906	-.01770	-.01643	-.01695
7.320	24.524	.58416	.06130	.00326	.50602	.29224	-.01816	-.01769	-.01856	-.01359	-.01486
7.320	28.748	.75259	.06172	-.00226	.63014	.41608	-.01706	-.01751	-.01748	-.01420	-.01436
7.320	36.790	1.08936	.05989	-.01869	.83653	.70036	-.01245	-.01237	-.01324	-.01039	-.01014
7.320	40.902	1.25079	.05664	-.02942	.90830	.86179	-.00611	-.00595	-.00676	-.00515	-.00268
	GRADIENT	.01892	-.00203	.00181	.01571	-.00129	-.00059	-.00003	-.00043	-.00053	-.00058



AMES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(RB0008) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 SQ.FT. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 DREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 12/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	1.915	-.02849	.08521	-.02377	-.02932	.08428	-.03472	-.03691	-.04037	-.03442	-.03514
5.280	5.000	.03785	.07911	-.02187	.03081	.08211	-.03625	-.03618	-.04157	-.03369	-.03688
5.280	8.595	.12439	.07379	-.02055	.11197	.09155	-.03664	-.03783	-.04163	-.03575	-.03716
5.280	12.754	.23651	.07099	-.02129	.21300	.12145	-.03786	-.03798	-.04193	-.03654	-.03778
5.280	16.691	.36697	.07033	-.02997	.33131	.17276	-.03781	-.03808	-.04180	-.03663	-.03841
5.280	20.448	.50815	.07177	-.04413	.45107	.24476	-.04120	-.04127	-.04042	-.04048	-.03986
5.280	24.493	.65959	.07297	-.05067	.56998	.33985	-.03824	-.03868	-.04095	-.03639	-.03772
5.280	28.634	.83861	.07533	-.06762	.69994	.46799	-.03776	-.03833	-.03938	-.03645	-.03630
5.280	32.619	1.01001	.07834	-.08611	.80848	.61044	-.03691	-.03759	-.03819	-.03342	-.03496
5.280	36.752	1.19183	.07912	-.10458	.90758	.77653	-.03642	-.03687	-.03720	-.03435	-.03432
5.280	40.837	1.36537	.07813	-.12574	.98190	.95194	-.03456	-.03612	-.03658	-.03316	-.03309
	GRADIENT	.02085	-.00198	.00062	.01949	-.00070	-.00049	.00024	-.00039	.00024	-.00056

RUN NO. 20/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.747	-.03389	.05616	-.02854	-.03558	.05510	-.01192	-.01415	-.01519	-.00982	-.01029
7.320	4.885	.02154	.05153	-.02281	.01707	.05316	-.01391	-.01461	-.01627	-.01187	-.01156
7.320	8.625	.09827	.04769	-.01488	.08803	.06159	-.01413	-.01506	-.01614	-.01069	-.01165
7.320	12.770	.20163	.04607	-.00975	.18646	.08950	-.01413	-.01520	-.01614	-.01155	-.01202
7.320	16.764	.32386	.04528	-.00953	.29704	.13575	-.01392	-.01511	-.01597	-.01044	-.01153
7.320	20.470	.00483	.00328	-.00099	.00338	.0 476	3.49292	3.46958	3.48598	3.45495	3.47146
7.320	24.657	.61371	.04880	-.02053	.53739	.30038	-.01418	-.01561	-.01532	-.01061	-.01165
7.320	28.773	.78791	.05086	-.03247	.66614	.42383	-.01355	-.01506	-.01467	-.01098	-.01063
7.320	32.743	.95578	.05267	-.04479	.77543	.56126	-.01319	-.01479	-.01338	-.00971	-.01031
7.320	36.896	1.13314	.05290	-.05956	.87444	.72280	-.00874	-.01089	-.00950	-.00387	-.00556
7.320	40.912	1.23988	.04913	-.07050	.90482	.84910	.02697	.02709	.02329	.02707	.03082
	GRADIENT	.01766	-.00147	.00183	.01678	-.00061	-.00063	-.00015	-.00034	-.00059	-.00041



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-168)

PAGE 15

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(RB800A) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 98 FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 5/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	C-5
10.290	1.825	-.03368	.07768	-.02951	-.03614	.07656	.00285	-.00020	-.00590	.00862	.00359
10.290	4.940	.01679	.07051	-.02353	.01065	.07169	.00148	-.00135	-.00623	.00390	.00237
10.290	8.629	.08703	.06551	-.01584	.07621	.07782	.00091	-.00134	-.00598	.00395	.00192
10.290	12.765	.18929	.06211	-.01256	.17088	.10240	.00002	-.00178	-.00571	.00298	.00206
10.290	16.746	.31137	.05386	-.01397	.27977	.15087	-.00003	-.00182	-.00482	.00451	.00370
10.290	20.483	.43728	.06698	-.02213	.38620	.21576	-.00285	-.00419	-.00308	-.00056	-.00114
10.290	24.528	.59852	.07103	-.03204	.51502	.31309	-.00006	-.00163	-.00264	.00711	.00001
10.290	28.723	.77877	.07577	-.04656	.64654	.44070	.00082	-.00133	-.00155	.00842	.00715
10.290	32.589	.95132	.07903	-.05573	.75897	.57898	.00215	.00029	.00096	.00531	.00785
10.290	36.751	1.13065	.07952	-.07747	.65835	.74023	.00886	.00564	.00504	.00967	.01061
10.290	40.898	1.30542	.07951	-.09695	.93468	.91477	.01183	.01023	.00871	.00910	.01065
	GRADIENT	.01620	-.00230	.00192	.01502	-.00156	-.00044	-.00037	-.00010	-.00152	-.00039

AMES3.5-166 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(RB0009) (13 SEP 73)

REFERENCE DATA

XREF = 2980.0000 SQ.FT. XMRP = 1076.4800 IN.
 YREF = 474.0000 IN. YMRP = .0000 IN.
 ZREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	1.914	-.00962	.08706	-.03710	-.01252	.08669	-.03586	-.03936	-.04179	-.03415	-.03615
5.200	4.921	.05816	.08729	-.03951	.05072	.08897	-.03742	-.03799	-.04262	-.03495	-.03780
5.200	8.615	.15189	.07994	-.04510	.13820	.10179	-.03808	-.03978	-.04306	-.03588	-.03851
5.200	12.708	.27499	.08167	-.05733	.25029	.14017	-.03851	-.04008	-.04316	-.03734	-.03892
5.200	16.760	.41535	.08415	-.07427	.37344	.20035	-.03809	-.03979	-.04299	-.03770	-.03852
5.200	20.464	.55379	.08749	-.09265	.48826	.27559	-.04207	-.04213	-.04134	-.04125	-.04057
5.200	24.522	.72403	.09531	-.11549	.61917	.38721	-.03895	-.03941	-.04220	-.03723	-.03798
5.200	28.716	.90555	.10227	-.13966	.74502	.52481	-.03826	-.03994	-.04102	-.03602	-.03674
5.200	32.842	1.08151	.11008	-.16452	.85132	.67604	-.03792	-.03964	-.04003	-.03560	-.03554
5.200	36.798	1.26985	.11493	-.19012	.94798	.85265	-.03646	-.03766	-.03685	-.03166	-.03431
5.200	40.820	1.44283	.11752	-.21234	1.01505	1.03210	-.03029	-.03092	-.03001	-.02271	-.02528
	GRADIENT	.02254	-.00092	-.00080	.02103	.00076	-.00059	.00046	-.00027	-.00027	-.00055

RUN NO. 19/ 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.796	-.00947	.08166	-.04000	-.01203	.08132	-.01199	-.01554	-.01964	-.00901	-.01288
7.320	5.069	.04695	.07665	-.03533	.04000	.08050	-.01364	-.01569	-.02042	-.01051	-.01413
7.320	8.614	.12480	.07374	-.03458	.11235	.09160	-.01359	-.01610	-.02042	-.01035	-.01413
7.320	12.705	.23973	.07489	-.03989	.21739	.12578	-.01357	-.01609	-.02042	-.00979	-.01411
7.320	16.755	.37772	.07900	-.05080	.33891	.18454	-.01339	-.01602	-.01949	-.01042	-.01409
7.320	20.485	.50546	.08241	-.06371	.44465	.25409	-.02067	-.01966	-.01913	-.01812	-.01680
7.320	24.515	.66893	.09172	-.08326	.58877	.36931	-.01455	-.01694	-.01914	-.00968	-.01313
7.320	28.871	.87106	.09943	-.10401	.71655	.50516	-.01450	-.01708	-.01911	-.00828	-.01303
7.320	32.599	1.04772	.10645	-.12542	.82531	.65414	-.01393	-.01626	-.01636	-.00887	-.01240
7.320	36.651	1.22992	.11135	-.14682	.92029	.82352	-.00939	-.01287	-.01217	-.00532	-.00690
7.320	40.846	1.01749	.26098	-.03059	2.11195	2.17095	.01567	.02410	.02795	.03342	.03160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

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AME3.5-166 OA23 B22 C7 E23 F5 H4 R5 V7 W107

(R00009) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 80.FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BOFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.849	-.01416	.07820	-.03608	-.01668	.07770	.00450	.00273	-.00974	.00956	.00308
10.290	4.945	.03789	.07227	-.03363	.03152	.07527	.00204	.00195	-.00974	.00663	.00181
10.290	8.638	.11741	.06991	-.03427	.10558	.08675	.00157	.00111	-.00938	.00669	.00135
10.290	12.700	.23147	.07055	-.04184	.21030	.11971	.00140	.00114	-.00804	.00745	.00155
10.290	16.758	.36739	.07300	-.05560	.33074	.17582	.00094	.00112	-.00728	.00731	.00203
10.290	20.466	.51100	.07806	-.07233	.45144	.25182	.00011	-.00016	-.00635	.00597	.00248
10.290	24.438	.67859	.08387	-.09464	.58309	.35709	.00004	-.00018	-.00511	.00568	.00476
10.290	28.583	.86547	.09056	-.11866	.71666	.49359	.00010	-.00017	-.00369	.00818	.00657
10.290	32.546	1.04222	.09031	-.14568	.82997	.63682	.00156	.00063	-.00136	.00870	.00591
10.290	36.692	1.22797	.09069	-.16970	.93047	.80645	.00737	.00378	.00234	.01081	.00928
10.290	40.709	1.40513	.12200	-.19599	.98556	1.00893	.01167	.01117	.00906	.01069	.01504
	GRADIENT	.01681	-.00191	.00079	.01556	-.00079	-.00079	-.00025	-.00000	-.00088	-.00041

AMESS.5-166 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(RB609A) (13 SEP 73)

REFERENCE DATA

WREF = 2090.0000 30.FT. WMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BOFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	1.914	-.00962	.08706	-.03710	-.01252	.08669	-.03566	-.03936	-.04179	-.03415	-.03615
5.280	4.921	.05816	.08429	-.03951	.09072	.08897	-.03742	-.03799	-.04262	-.03495	-.03780
5.280	8.615	.15189	.07994	-.04510	.13820	.10179	-.03808	-.03978	-.04308	-.03588	-.03851
5.280	12.708	.27499	.08167	-.05733	.25029	.14017	-.03851	-.04008	-.04316	-.03734	-.03892
5.280	16.760	.41535	.08415	-.07427	.37344	.20035	-.03909	-.03979	-.04299	-.03770	-.03852
5.280	20.464	.55379	.08749	-.09265	.48826	.27359	-.04207	-.04215	-.04134	-.04125	-.04057
5.280	24.522	.72403	.09531	-.11549	.61917	.38721	-.03895	-.03941	-.04220	-.03723	-.03798
5.280	28.718	.90555	.10227	-.13966	.74502	.52481	-.03826	-.03994	-.04102	-.03602	-.03674
5.280	32.642	1.08151	.11008	-.16452	.85132	.67604	-.03792	-.03964	-.04033	-.03560	-.03554
5.280	36.798	1.26983	.11493	-.19012	.94798	.85265	-.03646	-.03766	-.03685	-.03166	-.03431
5.280	40.820	1.44283	.11752	-.21234	1.01505	1.03210	-.03029	-.03092	-.03031	-.02271	-.02528
	GRADIENT	.02254	-.00092	-.00080	.02103	.00076	-.00059	.00046	-.00027	-.00027	-.00055

RUN NO. 23/ 0 RN/L = 2.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.768	-.01601	.08077	-.03843	-.01849	.08024	-.00973	-.01362	-.01677	-.01018	-.01071
7.320	4.849	.04227	.07588	-.03577	.03571	.07918	-.01193	-.01403	-.01729	-.01255	-.01235
7.320	8.603	.12503	.07189	-.03422	.11287	.08978	-.01193	-.01430	-.01703	-.01116	-.01243
7.320	12.785	.24273	.07309	-.04048	.22054	.12500	-.01194	-.01426	-.01678	-.01137	-.01231
7.320	16.785	.37971	.07722	-.05224	.34123	.18359	-.01100	-.01418	-.01531	-.01105	-.01195
7.320	20.456	.50790	.08212	-.06468	.44718	.25445	-.01731	-.01774	-.0156	-.01643	-.01443
7.320	24.552	.69230	.08955	-.08379	.59250	.36912	-.01194	-.01499	-.01562	-.00974	-.01092
7.320	28.693	.87506	.09784	-.10587	.72063	.50596	-.01196	-.01482	-.01477	-.00938	-.01086
7.320	32.709	1.05621	.10449	-.12767	.83226	.65868	-.01080	-.01363	-.01333	-.00774	-.01072
7.320	36.787	1.23738	.10831	-.14846	.92611	.82775	-.00410	-.00860	-.00774	-.00320	-.00287
	GRADIENT	.01891	-.00159	.00086	.01759	-.00034	-.00071	-.00013	-.00017	-.00077	-.00053



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-168)

PAGE 19

AMES3.5-168 OA23 B22 C7 E23 F3 M4 R5 V7 W07

(RB009A) (13 SEP 73)

REFERENCE DATA

BREF = 2690.0000 30.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = 13.750
 SPDRK = 55.000 RUDDER = .000

RUN NO. 4/0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	1.849	-.01416	.07820	-.03608	-.01668	.07770	.00450	.00273	-.00974	.00956	.00308
10.290	4.945	.03789	.07227	-.03363	.03152	.07527	.00204	.00195	-.00974	.00683	.00181
10.290	8.638	.11741	.06991	-.03427	.10558	.08675	.00157	.00111	-.00938	.00669	.00133
10.290	12.700	.23147	.07055	-.04184	.21030	.11971	.00140	.00114	-.00804	.00745	.00135
10.290	16.758	.36739	.07300	-.05560	.33074	.17582	.00094	.00112	-.00728	.00731	.00203
10.290	20.468	.51100	.07806	-.07233	.45144	.25182	.00011	-.00016	-.00635	.00597	.00248
10.290	24.438	.67859	.08387	-.09464	.58309	.35709	.00004	-.00018	-.00511	.00568	.00476
10.290	28.583	.86547	.09056	-.11866	.71666	.49359	.00010	-.00017	-.00369	.00818	.00657
10.290	32.543	1.04222	.09031	-.14568	.82997	.63682	.00156	.00063	-.00136	.00870	.00591
10.290	36.692	1.22797	.09069	-.16970	.93047	.80645	.00737	.00378	.00234	.01081	.00928
10.290	40.709	1.40513	.12200	-.19599	.98556	1.00893	.01167	.01117	.00906	.01069	.01304
	GRADIENT	.01681	-.00191	.00079	.01556	-.00079	-.00079	-.00025	-.00000	-.00088	-.00041

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(R88010) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 926.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 55/ D RN/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	12.240	.19751	.06740	-.01699	.17912	.10782	-.03499	-.03453	-.03719	-.03268	-.03392
5.200	15.296	.29277	.06614	-.02016	.26495	.14104	-.03536	-.03646	-.03765	-.03298	-.03426
5.200	18.454	.40458	.06423	-.02455	.36744	.18899	-.03584	-.03644	-.03782	-.03267	-.03492
5.200	23.093	.58362	.06402	-.03027	.51174	.28782	-.03534	-.03573	-.03766	-.03258	-.03424
5.200	27.026	.74706	.06310	-.03895	.63681	.39567	-.03416	-.03524	-.03595	-.03326	-.03424
5.200	30.751	.89360	.06115	-.05112	.73669	.50947	-.03662	-.03710	-.03576	-.03626	-.03681
5.200	34.762	1.08733	.06130	-.06107	.85831	.67032	-.03445	-.03471	-.03553	-.03399	-.03609
5.200	39.027	1.27169	.05939	-.07670	.95051	.84691	-.03333	-.03377	-.03484	-.03434	-.03628
5.200	42.894	1.43441	.05785	-.08942	1.01149	1.01871	-.03258	-.03354	-.03430	-.03541	-.03608
5.200	47.060	1.60209	.05530	-.10611	1.05091	1.21050	-.03071	-.03227	-.03368	-.03241	-.03387
5.200	51.086	1.75297	.05293	-.11903	1.05995	1.39722	-.02830	-.03123	-.03267	-.03162	-.03161
	GRADIENT	.04107	-.00034	-.00269	.02433	.03377	.00015	.00011	.00013	-.00001	.00001

RUN NO. 27/ D RN/L = 1.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.222	.16584	.06100	-.01266	.14917	.09472	-.01393	-.01465	-.01514	-.01188	-.01202
7.320	15.299	.24532	.05922	-.01410	.22100	.12185	-.01488	-.01570	-.01571	-.01131	-.01314
7.320	18.615	.36288	.05876	-.01031	.33177	.17376	-.01551	-.01552	-.01545	-.01250	-.01313
7.320	23.183	.52973	.05789	-.01071	.46416	.26175	-.01551	-.01488	-.01497	-.01168	-.01313
7.320	27.162	.68406	.05714	-.01413	.58254	.36311	-.01409	-.01359	-.01366	-.01139	-.01198
7.320	30.845	.81689	.05630	-.01826	.67248	.46717	-.01551	-.01474	-.01309	-.01283	-.01173
7.320	34.932	1.01486	.05663	-.02880	.79958	.62755	-.01235	-.01158	-.01235	-.01143	-.00942
7.320	39.093	1.19735	.05561	-.04487	.89422	.79818	-.01150	-.01020	-.01235	-.01179	-.00893
7.320	42.965	1.36401	.05421	-.05935	.96119	.96932	-.01076	-.00910	-.01065	-.01019	-.00446
7.320	47.143	1.52644	.05235	-.07411	.99987	1.15457	-.00802	-.00714	-.00969	-.00908	-.00109
7.320	51.147	1.68934	.05082	-.09799	1.02018	1.34747	-.00617	-.00677	-.00978	-.00858	.00173
	GRADIENT	.04005	-.00022	-.00208	.02397	.03259	.00021	.00024	.00017	.00007	.00037



AME33.0-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W107

(RB011) (13 SEP 73)

REFERENCE DATA

BREF = 2690.0000 36.FT. XMRP = 1076.4600 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BULFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 52/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.300	.20773	.07046	-.02465	.16795	.11309	-.03475	-.03402	-.03643	-.03012	-.03543
5.260	15.346	.30917	.06971	-.03050	.27970	.14905	-.03511	-.03551	-.03452	-.03126	-.03542
5.260	18.622	.42569	.06921	-.03977	.38130	.20152	-.03560	-.03579	-.03651	-.03458	-.03633
5.260	23.082	.60437	.07060	-.05449	.52831	.30189	-.03478	-.03581	-.03845	-.03407	-.03476
5.260	27.001	.77814	.07208	-.07007	.66060	.41750	-.03317	-.03478	-.03671	-.03062	-.03556
5.260	30.744	.94148	.06971	-.08910	.77354	.54119	-.03672	-.03722	-.03660	-.03646	-.03699
5.260	34.758	1.13279	.07351	-.10729	.88876	.70621	-.03296	-.03364	-.03576	-.03464	-.03546
5.260	38.976	1.32662	.07340	-.12614	.98517	.89149	-.03227	-.03326	-.03534	-.03602	-.03432
5.260	42.760	1.50102	.07353	-.14351	1.05213	1.07308	-.02967	-.03255	-.03431	-.03525	-.03275
5.260	47.005	1.67792	.07248	-.16572	1.09122	1.27668	-.02905	-.03091	-.03296	-.03284	-.02957
5.260	50.899	1.83315	.07155	-.18099	1.10061	1.46772	-.02800	-.02999	-.03230	-.03387	-.02805
	GRADIENT	.04320	.00009	-.00421	.02534	.03573	.00019	.00013	.00017	-.00008	.00017

RUN NO. 28/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.166	.17171	.06145	-.01840	.15487	.09631	-.01517	-.01665	-.01653	-.01376	-.01422
7.320	15.248	.26894	.06073	-.01879	.24350	.12933	-.01653	-.01742	-.01700	-.01466	-.01442
7.320	18.397	.37916	.06003	-.02048	.34024	.17762	-.01673	-.01765	-.01665	-.01424	-.01421
7.320	23.166	.55597	.06076	-.02623	.48724	.27457	-.01669	-.01734	-.01606	-.01365	-.01439
7.320	27.061	.71411	.06239	-.03295	.60755	.38044	-.01606	-.01593	-.01489	-.01365	-.01422
7.320	30.861	.86232	.06322	-.04291	.70780	.49660	-.01639	-.01730	-.01395	-.01546	-.01424
7.320	34.944	1.06172	.06528	-.05872	.83291	.66164	-.01339	-.01347	-.01393	-.01147	-.01151
7.320	38.965	1.24806	.06650	-.07678	.92830	.83666	-.01276	-.01320	-.01393	-.01180	-.01053
7.320	43.032	1.41964	.06765	-.09528	.99155	1.01823	-.01120	-.01107	-.01394	-.01054	-.00809
7.320	47.091	1.58708	.06782	-.11351	1.03087	1.20861	-.00963	-.00839	-.01130	-.00817	-.00453
7.320	51.150	1.74613	.06831	-.13277	1.04212	1.40272	-.00649	-.00785	-.00932	-.00482	-.00072
	GRADIENT	.04141	.00023	-.00301	.02442	.03408	.00023	.00026	.00017	.00020	.00031

AME33.5-188 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(RB0012) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 SQ.FT. ZMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDPRK = 55.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	12.267	.19894	.06806	-.01399	.17994	.10878	-.03274	-.03344	.03699	-.03088	-.03309
5.200	15.294	.29475	.06590	-.01440	.26693	.14131	-.03384	-.03464	-.03745	-.03074	-.03375
5.200	18.513	.40549	.06401	-.01729	.36418	.18945	-.03513	-.03554	-.03852	-.03318	-.03460
5.200	23.068	.58145	.06391	-.02112	.50992	.28663	-.03518	-.03616	-.03865	-.03236	-.03439
5.200	27.032	.74510	.06382	-.02453	.63470	.39548	-.03440	-.03541	-.03780	-.03231	-.03428
5.200	30.731	.89849	.06259	-.02246	.73861	.51192	-.03792	-.03767	-.03707	-.03734	-.03761
5.200	34.606	1.08885	.06171	-.03995	.85882	.67218	-.03380	-.03475	-.03656	-.03173	-.03437
5.200	38.951	1.27252	.05893	-.04977	.95257	.84581	-.03304	-.03372	-.03577	-.03297	-.03380
5.200	42.829	1.43914	.05668	-.06190	1.01692	1.01991	-.03247	-.03326	-.03544	-.03385	-.03373
5.200	47.061	1.60610	.05389	-.07242	1.05480	1.21237	-.03131	-.03252	-.03435	-.03321	-.03245
5.200	51.029	1.75445	.05032	-.07975	1.06430	1.39567	-.02911	-.03231	-.03329	-.02971	-.03110
	GRADIENT	.04122	-.00040	-.00178	.02449	.03383	.00010	.00006	.00011	-.00001	.00005

RUN NO. 29/ 0 RN/L = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.205	.17002	.06040	-.01082	.15341	.09498	-.01435	-.01541	-.01502	-.01379	-.01352
7.320	15.230	.25426	.05921	-.00811	.22974	.12400	-.01552	-.01669	-.01615	-.01530	-.01412
7.320	18.551	.36274	.05811	-.00673	.32540	.17049	-.01593	-.01668	-.01614	-.01463	-.01403
7.320	23.195	.53058	.05748	-.00313	.46524	.26148	-.01587	-.01700	-.01579	-.01324	-.01350
7.320	27.181	.68700	.05709	-.00391	.58518	.36441	-.01536	-.01638	-.01490	-.01470	-.01476
7.320	30.839	.82865	.05652	-.00661	.68251	.47332	-.01683	-.01686	-.01384	-.01560	-.01512
7.320	34.953	1.01582	.05625	-.01448	.80036	.62807	-.01399	-.01453	-.01348	-.01273	-.01341
7.320	39.154	1.20036	.05415	-.02575	.89664	.79990	-.01276	-.01370	-.01221	-.01168	-.01221
7.320	43.071	1.36143	.05269	-.03630	.95855	.96823	-.01216	-.01300	-.01133	-.01067	-.01069
7.320	51.133	1.68347	.04792	-.06150	1.01908	1.34084	-.00725	-.01226	-.00967	-.00759	-.00858
	GRADIENT	.03962	-.00027	-.00121	.02415	.03177	.00017	.00011	.00016	.00016	.00012



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 23

A*E33.5-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W10T

(R04013) (13 SEP 73)

REFERENCE DATA

XREF = 2000.0000 88.FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 30/ 0 RML = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.128	.16368	.06467	-.03082	.14663	.09786	-.01250	-.01503	-.01393	-.01106	-.01206
7.320	15.255	.25971	.06448	-.03380	.23360	.13052	-.01476	-.01557	-.01501	-.01170	-.01210
7.320	18.477	.37163	.06490	-.03817	.33190	.17933	-.01497	-.01580	-.01519	-.01379	-.01235
7.320	23.141	.55119	.06728	-.04382	.48040	.27849	-.01497	-.01635	-.01502	-.01338	-.01232
7.320	27.152	.72207	.06878	-.05261	.61111	.39072	-.01476	-.01557	-.01389	-.01284	-.01379
7.320	30.820	.86409	.07064	-.05806	.70587	.50336	-.01607	-.01662	-.01302	-.01457	-.01469
7.320	34.806	1.06359	.07391	-.07359	.83112	.65778	-.01435	-.01499	-.01260	-.01224	-.01338
7.320	39.076	1.25473	.07635	-.08807	.92594	.85019	-.01277	-.01417	-.01129	-.01166	-.01330
7.300	42.960	1.42170	.07854	-.10235	.98653	1.02670	-.01146	-.01363	-.00939	-.01023	-.01207
7.320	47.110	1.59680	.07964	-.11860	1.02843	1.22411	-.00968	-.01226	-.00740	-.00892	-.01207
7.320	51.158	1.75805	.08093	-.13739	1.03832	1.41851	-.00916	-.01090	-.00455	-.00749	-.00888
	GRADIENT	.04184	.00047	-.00271	.02454	.03442	.00013	.00011	.00024	.00010	.00004

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB0015) (13 SEP 73)

REFERENCE DATA

BREF = 2980.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6810 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 31/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	12.250	.23636	.07592	-.04653	.21507	.12439	-.03327	-.03379	-.03488	-.03167	-.03347
5.280	15.347	.34337	.07729	-.05907	.31067	.16541	-.03331	-.03434	-.03475	-.03194	-.03387
5.280	18.579	.46728	.07927	-.07423	.41767	.22402	-.03306	-.03400	-.03447	-.03177	-.03388
5.280	23.092	.65642	.08399	-.09511	.57094	.33462	-.03295	-.03379	-.03417	-.03124	-.03315
5.280	27.034	.84001	.08853	-.11901	.70799	.46066	-.03187	-.03386	-.03349	-.03281	-.03481
5.280	30.755	.99766	.08768	-.13386	.81252	.58552	-.03506	-.03688	-.03350	-.03600	-.03720
5.280	34.814	1.21558	.09704	-.16481	.94260	.77367	-.03302	-.03324	-.03354	-.03301	-.03657
5.280	38.992	1.41522	.10074	-.18867	1.03658	.96876	-.03205	-.03312	-.03293	-.03307	-.03647
5.280	42.927	1.59205	.10302	-.20915	1.09557	1.15972	-.03151	-.03246	-.03247	-.03396	-.03583
5.280	47.091	1.75885	.10529	-.23069	1.12719	1.36725	-.03049	-.03118	-.03115	-.03362	-.03402
5.280	51.131	1.91877	.10661	-.26277	1.13852	1.58275	-.02925	-.03156	-.03153	-.03111	-.03228
	GRADIENT	.04501	.00088	-.00555	.02545	.03813	.00009	.00007	.00009	-.00003	-.00002

RUN NO. 32/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.115	.18597	.06745	-.03472	.16767	.10498	-.00973	-.01197	-.01357	-.00825	-.00962
7.320	15.203	.28198	.06744	-.04167	.25442	.13903	-.01111	-.01229	-.01405	-.00837	-.01070
7.320	18.440	.39987	.06836	-.04890	.35771	.19133	-.01142	-.01229	-.01379	-.00760	-.01087
7.320	23.068	.57940	.07255	-.06202	.50466	.29376	-.01116	-.01220	-.01299	-.00779	-.00986
7.320	27.009	.75158	.07600	-.07708	.63510	.40902	-.01068	-.01150	-.01220	-.00837	-.01086
7.320	30.904	.91078	.07741	-.09580	.74172	.53420	-.01225	-.01287	-.01086	-.01116	-.01097
7.320	34.780	1.10157	.08391	-.11358	.85691	.69728	-.00923	-.01062	-.01087	-.00704	-.00961
7.320	38.046	1.29145	.08953	-.13679	.94813	.88143	-.00907	-.00997	-.00955	-.00691	-.00835
7.320	42.870	1.46615	.09314	-.16049	1.01117	1.06574	-.00747	-.00825	-.00796	-.00711	-.00685
7.320	47.018	1.63993	.09637	-.18382	1.04755	1.26543	-.00588	-.00802	-.00633	-.00480	-.00552
7.320	51.064	1.79938	.09825	-.20862	1.05439	1.46140	-.00364	-.00589	-.00426	-.00265	-.00301
	GRADIENT	.04251	.00089	-.00452	.02449	.03547	.00016	.00015	.00024	.00011	.00016



AME33.5-166 OA23 B19 C7 E23 F3 M4 N6 R5 V7 W107

(RB0016) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.4800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = 13.750
 SPDRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.103	.14820	.07140	-.00052	.12798	.10047	-.01558	-.01647	-.01895	-.01315	-.01428
7.320	15.164	.23579	.06845	-.00107	.20967	.12774	-.01616	-.01729	-.01921	-.01361	-.01448
7.320	18.451	.34040	.06670	.00157	.30179	.17101	-.01653	-.01729	-.01895	-.01385	-.01452
7.320	23.063	.50020	.06766	.00397	.43372	.25820	-.01558	-.01646	-.01769	-.01265	-.01501
7.320	26.991	.65228	.06684	.00420	.54999	.35720	-.01489	-.01563	-.01686	-.01286	-.01435
7.320	30.898	-.00052	-.00028	.00324	-.00030	-.00031	4.46846	4.43977	4.42590	4.40163	4.39470
7.320	34.872	.96844	.07205	-.00092	.75335	.61281	-.01241	-.01371	-.01393	-.00782	-.01055
7.320	38.978	1.13821	.07302	-.00515	.83690	.77273	-.01082	-.01297	-.01328	-.00550	-.00733
7.320	42.953	1.29375	.07279	-.01012	.89731	.93484	-.00807	-.01233	-.01240	-.00195	-.00419
7.320	47.068	1.44829	.07206	-.01399	.93371	1.10946	-.00511	-.01077	-.01122	.00256	.00080
7.320	51.180	1.58913	.07173	-.02075	.94076	1.28276	-.00353	-.01146	.01109	.00541	.00432
	GRADIENT	.03798	.00012	-.00049	.02239	.03091	-.00010	-.00025	-.00019	.00007	.00005

AME33.5-166 OA23 B19 C7 E23 F3 M4 N6 R5 V7 W107

(RB0017) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = .000
 SPDRK = 55.000 RUDDER = .000

RUN NO. 34/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.151	.13209	.07063	.00496	.11427	.09685	-.01345	-.01528	-.01680	-.01191	-.01305
7.320	15.272	.21853	.06724	.00998	.19310	.12243	-.01440	-.01546	-.01678	-.01117	-.01313
7.320	18.538	.32420	.06501	.01339	.28870	.16471	-.01440	-.01527	-.01680	-.01199	-.01305
7.320	23.184	.48219	.05367	.02117	.41827	.24821	-.01297	-.01431	-.01529	-.01186	-.01304
7.320	27.155	.63294	.06367	.02697	.53411	.34553	-.01281	-.01389	-.01406	-.01108	-.01304
7.320	31.011	.77515	.06181	.03167	.63251	.45234	-.01442	-.01442	-.01284	-.01506	-.01302
7.320	34.957	.94385	.06298	.03270	.73748	.59241	-.01111	-.01251	-.01248	-.00814	-.01030
7.320	39.150	1.11003	.06229	.03249	.82150	.74912	-.00963	-.01140	-.01138	-.00728	-.00815
7.320	43.035	1.25869	.05966	.02823	.87931	.90259	-.00688	-.01112	-.01002	-.00257	-.00483
7.320	47.128	1.41374	.05788	.02702	.91945	1.07547	-.00396	-.00973	-.00835	.00067	-.00064
7.320	51.248	1.55073	.05493	.02391	.92784	1.24373	-.00184	-.00955	-.00629	.00781	.00438
	GRADIENT	.03727	-.00031	.00033	.02234	.02992	.00030	.00016	.00026	.00043	.00040

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB6018) (13 SEP 73)

REFERENCE DATA

SREP = 2690.0000 38.FT. XMRP = 1078.4800 IN.
 LREP = 474.8000 IN. YMRP = .0000 IN.
 BREP = 938.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = -14.250
 SPD BRK = 55.000 RUDDER = .000

RUN NO. 53/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.260	12.357	.15337	.06061	.01238	.13257	.11157	-.03376	-.03396	-.03973	-.02949	-.03484
5.260	15.383	.24574	.07608	.01359	.21676	.13854	-.03545	-.03585	-.04060	-.03267	-.03599
5.260	18.606	.35542	.07205	.01478	.31385	.18169	-.03605	-.03733	-.04135	-.03264	-.03654
5.260	23.193	.52337	.06952	.01760	.45369	.27002	-.03545	-.03693	-.04027	-.03278	-.03590
5.260	27.190	.67711	.06835	.01932	.57106	.37020	-.03460	-.03578	-.03875	-.03212	-.03590
5.260	30.835	.83467	.06592	.01655	.68289	.48443	-.03833	-.03867	-.03840	-.03646	-.03840
5.260	34.878	.99517	.06541	.01938	.77903	.62271	-.03435	-.03553	-.03781	-.03067	-.03457
5.260	39.036	1.16978	.06261	.01856	.86919	.78538	-.03220	-.03516	-.03639	-.02665	-.03132
5.260	43.015	1.32426	.05919	.01771	.92788	.94669	-.02957	-.03360	-.03502	-.02316	-.02739
5.260	47.068	1.47606	.05572	.01672	.96480	1.11866	-.02538	-.03223	-.03350	-.01706	-.02190
5.260	51.183	1.61812	.05202	.01536	.97377	1.29337	-.02236	-.03377	-.03294	-.01111	-.01676
	GRADIENT	.03869	-.00064	.00007	.02318	.03105	.00029	.00017	.00021	.00046	.00043

RUN NO. 35/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.075	.13048	.07049	.00781	.11285	.09623	-.01353	-.01509	-.01634	-.01221	-.01301
7.320	15.152	.21918	.06640	.01219	.19421	.12138	-.01485	-.01652	-.01752	-.01237	-.01301
7.320	18.327	.32030	.06477	.01815	.28368	.16220	-.01505	-.01661	-.01752	-.01204	-.01321
7.320	23.040	.47523	.06321	.02837	.41259	.24416	-.01633	-.01747	-.01603	-.01179	-.01301
7.320	27.088	.62313	.06224	.03579	.52644	.33914	-.01358	-.01523	-.01489	-.01122	-.01301
7.320	30.934	.76363	.06201	.04166	.62313	.44574	-.01526	-.01646	-.01357	-.01387	-.01345
7.320	34.839	.92148	.06223	.04818	.72077	.57749	-.01225	-.01453	-.01357	-.01019	-.01175
7.320	39.008	1.08738	.06051	.04912	.80687	.73115	-.01070	-.01351	-.01356	-.00858	-.00926
7.320	43.000	1.23512	.05786	.05124	.86386	.88466	-.00848	-.01231	-.01224	-.00685	-.00606
7.320	47.106	1.38599	.05516	.05033	.90296	1.03294	-.00529	-.01005	-.00978	-.00298	-.00128
7.320	51.213	1.52404	.05264	.04743	.91366	1.22094	-.00174	-.00968	-.00776	.00327	.00370
	GRADIENT	.03640	-.00037	.00115	.02182	.02921	.00029	.00017	.00022	.00032	.00037



AHE3.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107

(RB018A) (13 SEP 73)

REFERENCE DATA

BREP = 2000.0000 30.FT. YMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREP = 938.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 ALLRON = .000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 53/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.200	12.357	.15337	.08061	.01238	.13257	.11157	-.03378	-.03398	-.03973	-.02949	-.03484
5.200	15.383	.24374	.07808	.01359	.21676	.13854	-.03545	-.03585	-.04080	-.03267	-.03599
5.200	18.608	.35542	.07205	.01478	.31385	.18169	-.03605	-.03733	-.04135	-.03264	-.03654
5.200	23.193	.52337	.06952	.01760	.45369	.27002	-.03545	-.03693	-.04027	-.03278	-.03590
5.200	27.190	.67711	.06835	.01932	.57106	.37020	-.03460	-.03578	-.03875	-.03212	-.03590
5.200	30.835	.83467	.06592	.01853	.68289	.48443	-.03833	-.03867	-.03840	-.03646	-.03640
5.200	34.876	.99517	.06541	.01938	.77903	.62271	-.03435	-.03553	-.03781	-.03067	-.03457
5.200	39.036	1.16978	.06261	.01856	.86919	.78558	-.03220	-.03516	-.03639	-.02665	-.03132
5.200	43.015	1.32426	.05919	.01571	.92788	.94669	-.02957	-.03360	-.03502	-.02316	-.02739
5.200	47.068	1.47806	.05572	.01672	.96480	1.11866	-.02538	-.03223	-.03330	-.01706	-.02190
5.200	51.183	1.61812	.05202	.01538	.97377	1.29337	-.02236	-.03377	-.03294	-.01111	-.01678
	GRADIENT	.03869	-.00064	.00007	.02318	.03105	.00029	.00007	.00021	.00046	.00043

RUN NO. 36/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	22.139	.43087	.06322	.02169	.37528	.22093	-.01251	-.01377	-.01464	-.00898	-.01070
7.320	25.283	.54637	.06282	.02784	.46721	.29015	-.01340	-.01387	-.01391	-.00976	-.01169
7.320	28.981	.69232	.06187	.03449	.57565	.38957	-.01188	-.01273	-.01257	-.00853	-.00972
7.320	33.202	.85345	.06057	.04035	.68094	.51803	-.01407	-.01399	-.01077	-.01092	-.01043
7.320	37.204	1.03055	.06161	.04228	.79356	.67220	-.01094	-.01210	-.01019	-.00682	-.00563
7.320	40.999	1.18901	.05957	.04383	.85528	.82237	-.00812	-.00992	-.00816	-.00274	-.00207
7.320	44.987	1.34453	.05681	.04448	.91077	.99070	-.00518	-.00878	-.00539	.00042	.00293
7.320	49.133	1.49951	.05325	.04498	.94087	1.16882	-.00307	-.00904	-.00130	.00538	.00922
7.320	53.184	1.63186	.04943	.04487	.93832	1.33603	.00005	-.01074	.00330	.01123	.01483
7.320	56.103	1.71844	.04781	.04810	.91776	1.45126	-.00008	-.01291	.00485	.01328	.01537
7.320	58.301	1.76309	.04748	.05681	.88604	1.52502	.00258	-.01209	.00778	.01613	.01961
	GRADIENT	.03798	-.00047	.00069	.01481	.03753	.00046	.00008	.00062	.00076	.00091

AMES3.5-166 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107

(RB6019) (13 SEP 73)

REFERENCE DATA

XREF = 2880.0000 38.FT. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 938.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 37/0 RM/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.055	.14266	.08459	.00459	.12802	.09298	-.01279	-.01468	-.01353	-.01005	-.01106
7.320	15.134	.22652	.06216	.00977	.20239	.11921	-.01353	-.01505	-.01436	-.00972	-.01168
7.320	18.400	.32720	.06053	.01649	.29137	.16072	-.01389	-.01482	-.01435	-.01075	-.01131
7.320	23.049	.48285	.06027	.02636	.42071	.24450	-.01303	-.01468	-.01305	-.01021	-.01114
7.320	27.022	.62734	.05974	.03532	.53171	.33824	-.01199	-.01331	-.01196	-.00951	-.01229
7.320	30.707	.75627	.05909	.03997	.62006	.43699	-.01434	-.01406	-.01171	-.01286	-.01350
7.320	34.795	.92841	.05840	.04357	.72909	.57775	-.01120	-.01207	-.01078	-.00823	-.01060
7.320	38.989	1.09226	.05646	.04579	.81346	.73110	-.00961	-.01193	-.01025	-.00543	-.00775
7.320	42.928	1.24614	.05371	.04455	.87586	.88804	-.00760	-.01064	-.00911	-.00279	-.00399
7.320	47.024	1.39521	.04990	.04259	.91459	1.05481	-.00460	-.01019	-.00798	-.00019	.00009
7.320	51.099	1.53649	.04601	.04006	.92907	1.22464	-.00327	-.00831	-.00728	.00739	.00504
	GRADIENT	.03655	-.00039	.00100	.02198	.02945	.00025	.00016	.00018	.00037	.00037



AMESS.5-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W107

(RB8020) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 88.FT. WMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 54/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	12.304	.17820	.06954	.00184	.15733	.10549	-.03273	-.03357	-.03656	-.03149	-.03340
5.280	15.326	.26732	.06771	.00367	.23992	.13596	-.03476	-.03574	-.03842	-.03256	-.03478
5.280	18.650	.37370	.06381	.00514	.33367	.17996	-.03489	-.03630	-.03865	-.03263	-.03480
5.280	23.178	.54044	.06231	.00772	.47248	.27007	-.03473	-.03572	-.03831	-.03034	-.03343
5.280	27.134	.69650	.06035	.00750	.59232	.37136	-.03360	-.03576	-.03725	-.03155	-.03377
5.280	30.803	.84109	.05748	.00573	.69301	.48008	-.03739	-.03803	-.03802	-.03586	-.03688
5.280	34.823	1.02241	.05653	.00354	.80703	.63025	-.03477	-.03507	-.03836	-.03403	-.03453
5.280	39.025	1.19370	.05276	-.00117	.89413	.79261	-.03286	-.03429	-.03724	-.03288	-.03241
5.280	42.922	1.35228	.04821	-.00414	.95742	.95620	-.03092	-.03283	-.03549	-.03149	-.02985
5.280	47.034	1.51129	.04290	-.01005	.99865	1.13515	-.02803	-.03093	-.03454	-.02852	-.02888
5.280	51.120	1.65957	.03857	-.01329	1.01167	1.31613	-.02482	-.02929	-.03387	-.02473	-.02688
GRADIENT		.03919	-.00075	-.00042	.02358	.03171	.00019	.00013	.00009	.00011	.00017

RUN NO. 38/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.033	.14683	.06277	-.00073	.13052	.09200	-.01237	-.01409	-.01445	-.01050	-.01188
7.320	15.099	.23197	.06082	.00483	.20812	.11915	-.01349	-.01525	-.01534	-.01101	-.01198
7.320	18.326	.33037	.05993	.01116	.29477	.16076	-.01370	-.01520	-.01534	-.01035	-.01190
7.320	23.030	.48645	.05866	.02093	.42473	.24429	-.01321	-.01469	-.01411	-.01025	-.01188
7.320	27.036	.63123	.05748	.02914	.53613	.33813	-.01319	-.01362	-.01344	-.01093	-.01309
7.320	30.703	.76451	.05579	.03302	.62888	.43832	-.01477	-.01490	-.01270	-.01376	-.01359
7.320	34.784	.93937	.05516	.03579	.74004	.58119	-.01174	-.01268	-.01255	-.01034	-.01188
7.320	38.997	1.10432	.05194	.03372	.82557	.73530	-.01034	-.01173	-.01138	-.00976	-.01045
7.320	42.945	1.26097	.04840	.03181	.89007	.89452	-.00850	-.01073	-.01090	-.00756	-.00824
7.320	47.039	1.41703	.04356	.02784	.93383	1.06670	-.00576	-.00999	-.00947	-.00692	-.00661
7.320	51.119	1.55736	.03932	.02298	.94696	1.23701	-.00372	-.00741	-.00888	-.00502	-.00446
GRADIENT		.03696	-.00054	.00069	.02234	.02974	.00022	.00017	.00016	.00012	.00017

AME33.5-166 OA23 B19 C7 E23 F3 M4 N6 R5 V7 W107

(RB6021) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRZF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.096	.15298	.06042	-.00239	.13693	.09113	-.01634	-.01762	-.01669	-.01499	-.01472
7.320	15.167	.23911	.05937	.00160	.21524	.11986	-.01781	-.01917	-.01799	-.01413	-.01521
7.320	18.373	.33893	.05821	.00678	.30141	.16145	-.01870	-.01917	-.01799	-.01450	-.01521
7.320	23.015	.49429	.05641	.01480	.43289	.24518	-.01781	-.01917	-.01772	-.01371	-.01484
7.320	27.028	.64452	.05546	.01947	.54893	.34229	-.01754	-.01830	-.01668	-.01449	-.01648
7.320	30.739	.78629	.05393	.02216	.64825	.44825	-.01873	-.01915	-.01665	-.01454	-.01716
7.320	34.806	.95837	.05303	.01840	.75664	.59058	-.01648	-.01779	-.01667	-.01481	-.01610
7.320	39.016	1.13283	.04976	.01322	.84886	.75182	-.01532	-.0169	-.01598	-.01387	-.01544
7.320	42.965	1.29458	.04672	.00662	.91549	.91651	-.01300	-.01505	-.01537	-.01263	-.01346
7.320	47.065	1.45134	.04293	-.00350	.95731	1.09196	-.01237	-.01381	-.01297	-.01090	-.01112
7.320	51.117	1.60279	.03933	-.00966	.97550	1.27235	-.00826	-.01367	-.01171	-.00814	-.00778
	GRADIENT	.03801	-.00051	-.00015	.02298	.03065	.00020	.00014	.00013	.00012	.00013

AME33.5-166 OA23 B19 C7 E23 F3 M4 N6 R5 V7 W107

(RB6022) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRZF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = -10.000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 40/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.071	.16447	.06349	-.01363	.14756	.09648	-.01532	-.01595	-.01601	-.01224	-.01282
7.320	15.164	.23343	.06206	-.01435	.23030	.12672	-.01669	-.01732	-.01714	-.01269	-.01331
7.320	18.330	.36087	.06230	-.01265	.32294	.17268	-.01648	-.01737	-.01661	-.01306	-.01327
7.320	23.077	.52487	.06237	-.01173	.45842	.26311	-.01632	-.01741	-.01652	-.01290	-.01298
7.320	27.101	.68198	.06282	-.01305	.57848	.36661	-.01600	-.01654	-.01543	-.01330	-.01528
7.320	30.713	.82327	.06309	-.01720	.67730	.47573	-.01731	-.01739	-.01484	-.01567	-.01555
7.320	34.799	1.00757	.06378	-.02556	.79097	.62740	-.01552	-.01589	-.01469	-.01231	-.01453
7.320	38.986	1.18771	.06309	-.03565	.88331	.79627	-.01394	-.01553	-.01469	-.01334	-.01367
7.320	42.941	1.35124	.06265	-.04658	.94651	.96638	-.01394	-.01374	-.01338	-.01198	-.01280
7.320	47.029	1.52049	.06071	-.06069	.99200	1.15392	-.01256	-.01314	-.01198	-.00979	-.00966
7.320	51.120	1.67045	.05928	-.07445	1.00239	1.33759	-.01103	-.01209	-.01075	-.00665	-.00660
	GRADIENT	.03951	-.00005	-.00151	.02347	.03227	.00012	.00012	.00014	.00010	.00011



AME3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(RB6025) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 38.FT. YMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 57/0 RN/L = 2.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
5.280	12.334	.19780	.06719	-.01418	.17888	.10789	-.03383	-.03366	-.03614	-.03284	-.03388
5.280	15.373	.29104	.06517	-.01435	.26335	.17999	-.03556	-.03559	-.03808	-.03383	-.03571
5.280	18.364	.39861	.06368	-.01558	.35728	.28790	-.03586	-.03596	-.03849	-.03506	-.03714
5.280	23.245	.58080	.06366	-.02091	.50852	.28772	-.03629	-.03676	-.03813	-.03536	-.03810
5.280	27.180	.74404	.06364	-.02554	.63261	.39648	-.03640	-.03723	-.03838	-.03657	-.03909
5.280	30.805	.89325	.06135	-.02806	.73581	.51014	-.03703	-.03692	-.03678	-.03730	-.03833
5.280	31.027	.90909	.06231	-.03190	.74691	.52197	-.03472	-.03555	-.03739	-.03568	-.03778
5.280	34.943	1.08252	.06084	-.04118	.85251	.66990	-.03377	-.03551	-.03737	-.03430	-.03644
5.280	39.122	1.26399	.05890	-.05149	.94345	.84323	-.03243	-.03552	-.03738	-.03361	-.03570
5.280	43.096	1.42685	.05606	-.06061	1.00360	1.01579	-.03126	-.03359	-.03739	-.03480	-.03448
5.280	47.200	1.59329	.05318	-.07041	1.04353	1.20518	-.02878	-.03069	-.03458	-.03440	-.03122
5.280	51.219	1.73619	.05082	-.07614	1.04783	1.38527	-.02685	-.02986	-.03461	-.03136	-.02855
	GRADIENT	.04075	-.00033	-.00173	.02408	.03354	.00020	.00012	.00007	.00003	.00014

RUN NO. 43/0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.191	.15937	.06425	-.01131	.14221	.09645	-.01398	-.01478	-.01627	-.01161	-.01244
7.320	15.308	.24924	.06226	-.00844	.22397	.12584	-.01493	-.01648	-.01752	-.01252	-.01356
7.320	18.635	.35638	.06065	-.00792	.31832	.17134	-.01556	-.01740	-.01831	-.01351	-.01480
7.320	23.236	.52420	.05983	-.00592	.45808	.26179	-.01573	-.01704	-.01832	-.01491	-.01530
7.320	27.216	.67673	.06024	-.00553	.57427	.36306	-.01461	-.01652	-.01831	-.01403	-.01480
7.320	30.888	.81377	.05806	-.00818	.66855	.46758	-.01716	-.01773	-.01577	-.01678	-.01527
7.320	34.904	.99593	.05876	-.01441	.78315	.61807	-.01412	-.01601	-.01580	-.01147	-.01230
7.320	39.138	1.17823	.05685	-.02518	.87798	.78778	-.01274	-.01462	-.01567	-.01176	-.00989
7.320	43.087	1.34588	.05414	-.03735	.94595	.95891	-.01040	-.01241	-.01324	-.01175	-.00676
7.320	47.194	1.51420	.05137	-.05203	.99124	1.14581	-.00759	-.01046	-.01179	-.00939	-.00339
7.320	51.338	1.66468	.04785	-.06451	1.00265	1.32972	-.00440	-.00825	-.00981	-.00868	.00143
	GRADIENT	.03944	-.00035	-.00133	.02357	.03202	.00023	.00018	.00019	.00009	.00034

AME33.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(RB020) (13 SEP 73)

REFERENCE DATA

SREF = 2000.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 44/ D RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	2.448	-.04080	.07886	-.02585	-.04413	.07705	-.01212	-.01310	-.01266	-.01028	-.00971
7.320	5.515	.00989	.07346	-.01863	.00279	.07407	-.01446	-.01471	-.01479	-.01063	-.01204
7.320	9.291	.08698	.06749	-.01228	.07492	.08065	-.01470	-.01487	-.01482	-.01192	-.01201
7.320	13.480	.18930	.06247	-.00642	.16956	.10482	-.01526	-.01619	-.01547	-.01338	-.01266
7.320	17.401	.30709	.06055	-.00370	.27493	.14962	-.01579	-.01638	-.01565	-.01347	-.01258
7.320	21.137	.42878	.05852	-.00048	.37881	.20920	-.01765	-.01666	-.01483	-.01499	-.01389
7.320	25.205	.57840	.05685	-.00020	.49826	.29957	-.01604	-.01663	-.01532	-.01245	-.01258
7.320	29.416	.74201	.05916	-.00066	.61730	.41597	-.01611	-.01628	-.01487	-.01269	-.01381
7.320	33.275	.89708	.05776	-.00682	.71831	.54048	-.01535	-.01626	-.01479	-.01347	-.01327
7.320	37.439	1.06810	.05678	-.01495	.81356	.69440	-.01452	-.01532	-.01356	-.01379	-.01212
7.320	41.531	1.23173	.05583	-.02458	.88504	.85847	-.01302	-.01371	-.01251	-.01263	-.01097
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AME33.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(RB027) (13 SEP 73)

REFERENCE DATA

SREF = 2000.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 45/ D RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	2.362	-.04494	.08603	-.01759	-.04845	.08410	-.01414	-.01388	-.01286	-.01117	-.01098
7.320	5.443	.00837	.07965	-.01151	.00078	.08009	-.01572	-.01561	-.01495	-.01305	-.01336
7.320	9.105	.08601	.07217	-.00664	.07430	.08500	-.01640	-.01697	-.01556	-.01416	-.01382
7.320	13.290	.18620	.06471	-.00300	.16634	.10578	-.01729	-.01724	-.01612	-.01379	-.01459
7.320	17.316	.30257	.06094	-.00028	.27072	.14824	-.01729	-.01752	-.01625	-.01481	-.01402
7.320	20.983	.42423	.05899	-.00052	.37497	.20699	-.01885	-.01832	-.01533	-.01672	-.01580
7.320	25.085	.57100	.05823	-.00091	.49246	.29482	-.01734	-.01751	-.01624	-.01534	-.01456
7.320	29.271	.73411	.05840	-.00130	.61182	.40988	-.01729	-.01697	-.01572	-.01387	-.01372
7.320	33.242	.88995	.05780	-.00616	.71275	.53602	-.01728	-.01705	-.01528	-.01575	-.01335
7.320	37.431	1.08189	.05623	-.01505	.80905	.69008	-.01570	-.01678	-.01493	-.01574	-.01137
7.320	41.374	1.22590	.05554	-.02625	.88321	.85197	-.01350	-.01445	-.01363	-.01492	-.00911
	GRADIENT	.00000	.00300	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB6029) (13 SEP 73)

REFERENCE DATA

SRFP = 2990.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BRFP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 65.000 RUDDER = -10.000

RUN NO. 49/ 0 RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	1.996	-.04956	.06933	-.01080	-.05255	.08755	-.00920	-.01050	-.00966	-.00773	-.00767
7.320	5.065	-.00040	.08416	-.00279	-.00783	.08382	-.01082	-.01191	-.01107	-.00875	-.00955
7.320	8.851	.08178	.07457	.00006	.06934	.08626	-.01140	-.01287	-.01138	-.01030	-.00971
7.320	13.010	.18644	.06597	-.00167	.16681	.10625	-.01297	-.01387	-.01246	-.01153	-.01078
7.320	16.934	.30919	.06154	-.00169	.27766	.14893	-.01360	-.01423	-.01267	-.01095	-.01016
7.320	20.648	.43032	.05855	-.00234	.38203	.20653	-.01456	-.01482	-.01231	-.01295	-.01195
7.320	24.757	.57879	.05888	-.00150	.50094	.25586	-.01327	-.01421	-.01237	-.01118	-.01001
7.320	28.964	.74193	.05842	-.00336	.62085	.41040	-.01285	-.01339	-.01239	-.01093	-.00952
7.320	32.678	.89652	.05756	-.00835	.72168	.53501	-.01231	-.01329	-.01234	-.01142	-.00827
7.320	36.989	1.06805	.05649	-.01896	.81912	.66773	-.01109	-.01283	-.01233	-.01194	-.00562
7.320	41.061	1.23566	.05613	-.02924	.89483	.85397	-.00977	-.01214	-.01233	-.01157	-.00314
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES3.5-166 OA23 B19 C7 F5 V7 R5 M4

(RB6029) (13 SEP 73)

REFERENCE DATA

SRFP = 2990.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BRFP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 46/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	11.999	.05178	.03853	.02658	.04264	.04845	-.01456	-.01626	-.01416	-.01338	-.01251
7.320	13.099	.09113	.03543	.04261	.07876	.05794	-.01493	-.01671	-.01476	-.01277	-.01259
7.320	16.313	.14104	.03390	.06173	.12324	.07650	-.01560	-.01725	-.01523	-.01329	-.01270
7.320	23.008	.21457	.03274	.08075	.18055	.11478	-.01555	-.01697	-.01470	-.01244	-.01243
7.320	27.034	.28479	.03307	.11334	.23864	.15890	-.01580	-.01721	-.01463	-.01030	-.01040
7.320	30.723	.35341	.03277	.13409	.28707	.20872	-.01560	-.01743	-.01410	-.00919	-.00905
7.320	34.814	.42839	.03399	.16003	.33231	.27248	-.01258	-.01490	-.01278	-.00559	-.00630
7.320	38.975	.50829	.03368	.18457	.37397	.34589	-.01081	-.01397	-.01044	-.00259	-.00379
7.320	42.950	.58550	.03366	.20199	.40562	.42357	-.00929	-.01282	-.00698	.00009	-.00164
7.320	47.039	.65715	.03285	.21699	.42361	.50330	-.00677	-.01128	-.00465	.00270	-.00017
7.320	51.073	.72231	.03108	.22999	.42966	.58145	-.00315	-.00861	-.00149	.00595	.00497
	GRADIENT	.01759	-.00010	.00543	.01058	.01393	.00028	.00019	.00032	.00051	.00044

AMES3.5-166 OA23 B19 C7 F5

(RB6030) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 946.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 BOFLAP = -14.250

RUN NO. 47/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.006	.05901	.03247	.02192	.04705	.04320	-.01327	-.00822	-.01340	-.01275	-.01175
7.320	15.055	.09431	.03140	.03622	.08291	.05482	-.01430	-.00737	-.01467	-.01379	-.01295
7.320	16.350	.14238	.03063	.05830	.12549	.07390	-.01428	-.00634	-.01466	-.01364	-.01293
7.320	23.026	.21616	.03069	.08656	.18693	.11279	-.01451	-.00429	-.01332	-.01331	-.01284
7.320	27.020	.28726	.03005	.11375	.24226	.15727	-.01337	-.00241	-.01213	-.01154	-.01292
7.320	30.676	.34826	.03195	.13443	.28323	.20515	-.01276	.00482	-.01075	-.01167	-.01165
7.320	34.784	.42897	.03159	.16222	.33430	.27066	-.01019	.00247	-.00869	-.00841	-.00994
7.320	38.981	.50529	.03138	.18359	.37304	.34226	-.00742	.00527	-.00602	-.00510	-.00791
7.320	42.908	.57860	.03110	.20299	.40262	.41670	-.00487	.00667	-.00528	-.00382	-.00581
7.320	47.000	.65279	.03006	.21967	.42321	.49792	-.00218	.00751	-.00383	-.00091	-.00355
7.320	51.109	.71960	.02912	.23290	.42913	.57838	-.00095	.00665	-.00487	.00032	-.00181
	GRADIENT	.01739	-.00004	.00362	.01044	.01390	.00036	.00045	.00030	.00038	.00028

AMES3.5-166 OA23 B19 C7

(RB6031) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 48/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	11.965	.05624	.03289	.02260	.04818	.04383	-.01294	-.00685	-.01174	-.01159	-.01134
7.320	15.092	.09470	.03162	.04099	.08320	.05518	-.01309	-.00607	-.01261	-.01113	-.01142
7.320	18.321	.14174	.03114	.06067	.12476	.07411	-.01315	-.00530	-.01304	-.01343	-.01257
7.320	23.051	.21465	.03121	.09157	.18530	.11276	-.01319	-.00378	-.01260	-.01334	-.01256
7.320	27.030	.28455	.03131	.11967	.23924	.15721	-.01293	-.00082	-.01104	-.01117	-.01182
7.320	30.719	.34875	.03298	.14381	.28297	.20650	-.01130	.00611	-.00994	-.01091	-.01128
7.320	34.782	.42487	.03309	.17124	.33008	.26955	-.00820	.00428	-.00740	-.00764	-.00858
7.320	39.004	.49908	.03397	.19653	.36645	.34051	-.00415	.00648	-.00479	-.00596	-.00640
7.320	42.956	.56887	.03401	.21741	.39317	.41254	-.00083	.00786	-.00217	-.00402	-.00392
7.320	47.029	.63880	.03432	.23859	.41032	.49081	.00129	.00843	-.00107	-.00253	-.00144
7.320	51.005	.70625	.03443	.25637	.41765	.57056	.00130	.00753	-.00228	.00183	.00104
	GRADIENT	.01701	.00008	.00616	.01010	.01370	.00043	.00045	.00034	.00034	.00033



AMES3.5-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W107

(08032) (13 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2880.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

BETA = 5.000 ELEVON = .000
 AIRCRN = .000 BOFLAP = -14.290
 SPDRK = 55.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.334	.14233	.06006	-.00891	.12622	.08907	.00436	.00346	.00156	.00709	.00786
10.290	15.416	.22935	.05949	-.00747	.20528	.11832	.00349	.00313	.00136	.00680	.00617
10.290	18.705	.33506	.05865	-.00473	.29856	.15300	.00292	.00301	.00157	.00707	.00603
10.290	23.255	.50125	.05880	-.00350	.43731	.25152	.00288	.00323	.00193	.00726	.00615
10.290	27.286	.66184	.05912	-.00632	.56110	.35595	.00292	.00339	.00289	.00722	.00619
10.290	30.895	.80536	.06066	-.01605	.65995	.46557	.00154	.00136	.00324	.00308	.00306
10.290	34.974	.99142	.05941	-.01965	.77833	.61696	.00435	.00463	.00508	.00999	.01182
10.290	39.183	1.16753	.05897	-.03188	.86801	.78304	.00688	.00535	.00583	.01080	.01409
10.290	43.130	1.33685	.05796	-.04284	.93601	.95624	.00874	.00721	.00789	.02412	.01684
10.290	47.231	1.50223	.05580	-.05557	.97912	1.14067	.01225	.00853	.00684	.01147	.01751
10.290	51.299	1.65926	.05307	-.06911	.99627	1.32794	.01357	.00971	.00671	.00988	.01874
	GRADIENT	.03993	-.00012	-.00157	.02395	.03229	.00025	.00016	.00018	.00021	.00036

AMES3.5-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W107

(08033) (13 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2880.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

BETA = .000 ELEVON = .000
 AIRCRN = .000 BOFLAP = -14.290
 SPDRK = 55.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.239	.14613	.05980	-.01015	.13013	.08942	.00228	.00005	-.00293	.00495	.00391
10.290	15.328	.23307	.05940	-.00754	.20908	.11889	.00046	-.00080	-.00279	.00456	.00275
10.290	18.579	.34280	.05872	-.00398	.30623	.16487	-.00002	-.00122	-.00279	.00424	.00275
10.290	23.066	.50863	.05941	-.00318	.44480	.25410	-.00021	-.00067	-.00170	.00372	.00276
10.290	27.178	.67075	.05901	-.00627	.59973	.35684	.00107	.00005	-.00069	.00480	.00277
10.290	30.827	.81831	.05801	-.01823	.67314	.48926	-.00055	-.00128	.00093	.00378	.00210
10.290	34.849	1.00481	.05852	-.02155	.79117	.62220	.00254	.00196	.00084	.01743	.00780
10.290	39.023	1.19143	.05793	-.02923	.88907	.79528	.00401	.00261	.00274	.00647	.01078
10.290	42.978	1.36570	.05651	-.04188	.98067	.97234	.00547	.00379	.00422	.00908	.01306
10.290	47.091	1.54208	.03337	-.06740	1.01080	1.16580	.00696	.00391	.00311	.00920	.01630
10.290	51.183	1.69062	.05134	-.08088	1.01975	1.34943	.00903	.00392	.00568	.00557	.01952
	GRADIENT	.04084	-.00018	-.00180	.02484	.03293	.00020	.00014	.00024	.00010	.00043

A/E33.5-166 QA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(R86034) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 60/ 0 RM/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MA01	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.291	.13521	.00865	-.02016	.13027	.03724	-.00210	-.00296	-.00517	.00348	.00017
10.290	15.344	.22629	.09031	-.01263	.20491	.10840	-.00299	-.00322	-.00547	.00236	-.00095
10.290	18.591	.33276	.05855	-.00975	.29673	.16158	-.00333	-.00339	-.00494	.00183	-.00095
10.290	23.183	.49905	.05797	-.01141	.43593	.24976	-.00395	-.00315	-.00426	.00223	.00007
10.290	27.126	.65976	.05818	-.01832	.56066	.35260	-.00192	-.00217	-.00322	.00235	.00018
10.290	30.833	.83722	.05819	-.02793	.68907	.47908	-.00350	-.00306	-.00127	-.00133	-.00086
10.290	34.836	1.00725	.05873	-.03607	.79319	.62358	-.00018	-.00044	-.00109	.00276	.00473
10.290	39.064	1.19925	.05789	-.04927	.89466	.80071	.00133	.00078	.00027	.00340	.00814
10.290	42.955	1.38525	.05746	-.06311	.97470	.98800	.00166	.00085	.00159	.00378	.01051
10.290	47.075	1.54496	.05520	-.08416	1.01176	1.16888	.00470	.00213	.00185	.00654	.01447
10.290	51.147	1.71940	.05367	-.10437	1.03682	1.37267	.00652	.00291	.00198	.00438	.01843
	GRADIENT	.04177	.00053	-.00224	.02518	.03414	.00023	.00017	.00022	.00007	.00046

A/E33.5-166 QA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(R86035) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 61/ 0 RM/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MA01	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.281	.14331	-.01639	-.02851	.14395	.01252	-.00152	-.00331	-.00482	.00241	.00118
10.290	15.323	.23553	.01961	-.02257	.22198	.08116	-.00265	-.00403	-.00526	.00134	.00049
10.290	18.604	.34770	.04801	-.02370	.31422	.15843	-.00309	-.00407	-.00498	.00203	.00050
10.290	23.196	.52382	.06273	-.03012	.45676	.26400	-.00275	-.00399	-.00393	-.00004	.00049
10.290	27.158	.69627	.06525	-.04290	.58972	.37587	-.00119	-.00255	-.00232	.00191	.00163
10.290	30.858	.85748	.06726	-.05839	.70158	.49754	-.00285	-.00322	.00014	-.00203	.00062
10.290	34.889	1.05018	.07022	-.07560	.82125	.65829	.00044	.00022	.00076	.00372	.00681
10.290	39.043	1.22463	.07074	-.08667	.90657	.82635	.00192	.00153	.00142	.00522	.00940
10.290	42.961	1.41728	.07185	-.11170	.98786	1.01880	.00358	.00244	.00247	.00381	.01188
10.290	47.098	1.59778	.07211	-.13083	1.03490	1.21946	.00601	.00332	.00342	.00506	.01457
10.290	51.174	1.75943	.07159	-.14841	1.04732	1.41557	.00785	.00411	.00397	.00465	.01772
	GRADIENT	.04264	.00170	-.00334	.02511	.03594	.00026	.00023	.00026	.00010	.00046



AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB6036) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 88.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 DOFLAP = 13.790
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.274	.17454	.08519	-.03301	.15869	.10081	-.00207	-.00347	-.00542	.00078	-.00033
10.290	15.329	.27338	.06535	-.04016	.24831	.13583	-.00294	-.00405	-.00590	-.00035	-.00101
10.290	18.609	.39140	.06777	-.05065	.34931	.18912	-.00318	-.00405	-.00541	-.00062	-.00097
10.290	23.171	.57975	.07224	-.06719	.50456	.29453	-.00294	-.00405	-.00453	.00045	-.00059
10.290	27.188	.76490	.07809	-.08803	.64470	.41895	-.00186	-.00278	-.00312	.00075	-.00062
10.290	30.861	.92199	.08337	-.10787	.74850	.54476	-.00419	-.00398	-.00146	-.00245	-.00164
10.290	34.863	1.11540	.08899	-.12579	.86434	.71060	-.00044	-.00095	-.00069	.00176	.00179
10.290	39.073	1.32510	.09486	-.15243	.96894	.90888	.00079	.00012	.00053	.00157	.00249
10.290	43.017	1.50837	.09893	-.17746	1.03536	1.10136	.00247	.00200	.00179	.00331	.00296
10.290	47.086	1.70016	.10293	-.20663	1.08227	1.31524	.00400	.00150	.00310	.00018	.00413
10.290	51.192	1.85734	.10415	-.24114	1.08404	1.51200	.00539	.00412	.00514	.00074	.00530
	GRADIENT	.04451	.00114	-.00530	.02569	.03705	.00021	.00022	.00028	.00004	.00016

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB6037) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 88.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 DOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.248	.12286	.06637	.00441	.10579	.09088	-.00342	-.00505	-.00577	.00120	-.00181
10.290	15.348	.2197	.06380	.00880	.18758	.11743	-.00488	-.00598	-.00637	-.00055	-.00258
10.290	18.582	.31137	.06294	.01549	.27508	.15888	-.00488	-.00555	-.00617	-.00127	-.00226
10.290	23.213	.47171	.06288	.02561	.40874	.24371	-.00399	-.00504	-.00511	-.00018	-.00142
10.290	27.099	.61614	.06324	.03209	.51989	.33697	-.00253	-.00377	-.00347	.00084	-.00112
10.290	30.785	.75893	.06242	.03026	.62004	.44206	-.00463	-.00500	-.00264	-.00343	-.00174
10.290	34.836	.92791	.06425	.04100	.72491	.53279	-.00047	-.00122	.00025	.00389	.00348
10.290	39.032	1.09383	.06304	.04427	.80998	.73782	.00100	.00005	.00215	.00416	.00738
10.290	42.988	1.24884	.06186	.04412	.87151	.89680	.00422	.00090	.00473	.01099	.01068
10.290	47.129	1.41296	.05973	.04228	.91754	1.07617	.00689	.00152	.00600	.00938	.01452
10.290	51.183	1.53933	.05482	.03496	.92236	1.23381	.00984	.00136	.00909	.01284	.02144
	GRADIENT	.03745	-.00018	.00096	.02250	.03003	.00038	.00022	.00040	.00034	.00057

AME33.5-166 OA23 B19 C7 E23 F5 M4 N6 R3 V7 W107

(RB0036) (13 SEP 73)

REFERENCE DATA

BREF = 2000.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 1.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
10.290	12.158	.11753	.07119	.00299	.09990	.09434	-.00082	-.00062	.00039	.00650	.00390
10.290	15.276	.19914	.06673	.00677	.17452	.11684	-.00117	-.00253	-.00048	.00458	.00287
10.290	18.507	.29680	.06653	.01295	.26015	.15724	-.00119	-.00255	.00008	.00518	.00284
10.290	23.170	.45672	.06624	.02184	.39382	.24060	-.00085	-.00118	.00138	.00571	.00400
10.290	27.119	.60030	.06655	.02750	.50396	.33288	.00018	-.00029	.00236	.00512	.00479
10.290	30.818	.75407	.06461	.02920	.61450	.44180	-.00074	-.00131	.00347	.00352	.00394
10.290	34.946	.91409	.06772	.03737	.71048	.57910	.00248	.00201	.00570	.00775	.00878
10.290	39.113	1.07487	.06518	.03976	.79288	.72866	.00446	.00428	.00787	.00891	.01112
10.290	42.995	1.23744	.06344	.03970	.86182	.89028	.00700	.00525	.01011	.01343	.01551
10.290	47.105	1.39817	.06037	.04132	.90744	1.06540	.00978	.00551	.01268	.01601	.02065
10.290	51.190	1.54708	.05669	.03313	.92544	1.24108	.01243	.00500	.01453	.01845	.02723
	GRADIENT	.03749	-.00025	.00095	.02281	.02983	.00034	.00022	.00039	.00032	.00057

AME33.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(RB0023) (17 SEP 73)

REFERENCE DATA

BREF = 2000.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = -10.000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 41/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.154	.15097	.08384	-.00545	.13414	.09419	-.01138	-.01280	-.01925	-.01080	-.01054
7.320	15.308	.24016	.08228	-.00106	.21520	.12347	-.01295	-.01403	-.01843	-.01029	-.01251
7.320	18.590	.34216	.08054	.00208	.30512	.16623	-.01391	-.01435	-.01643	-.00996	-.01214
7.320	23.170	.50584	.05977	.00804	.44134	.25389	-.01348	-.01384	-.01511	-.00971	-.01251
7.320	27.180	.65233	.05934	.01188	.55323	.35075	-.01252	-.01324	-.01432	-.01004	-.01263
7.320	30.856	.79091	.05672	.01280	.64988	.45434	-.01479	-.01480	-.01378	-.01257	-.01282
7.320	34.955	.98879	.05688	.01052	.73993	.60034	-.01230	-.01204	-.01379	-.00845	-.01250
7.320	39.087	1.14440	.05510	.00472	.83380	.76401	-.01104	-.01140	-.01248	-.00870	-.01110
7.320	43.007	1.29912	.05118	-.00379	.91511	.92352	-.00986	-.01167	-.01128	-.00965	-.00930
7.320	47.138	1.46294	.04775	-.01287	.98018	1.10478	-.00911	-.01065	-.01086	-.00858	-.00876
7.320	51.256	1.60567	.04337	-.02295	.97106	1.27949	-.00864	-.00927	-.01082	-.00498	-.00502
	GRADIENT	.03819	-.00046	-.00038	.02296	.03084	.00011	.00011	.00016	.00011	.00014



AMES3.9-100 OA23 519 C7 E23 F5 M4 N0 R5 V7 M107

(R80024) (17 SEP 73)

REFERENCE DATA

SREF = 2080.0000 80.FT. XMRP = 1078.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BRZF = 938.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = -10.000 BDPLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 42/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ON	CA	CLM	CL	CD	CP1	CP2	CP3	CP4	CP5
7.320	12.054	.14893	.08327	-.00088	.13048	.09256	-.01482	-.01663	-.01991	-.01302	-.01283
7.320	15.148	.23012	.06115	.00299	.27314	.11916	-.01635	-.01813	-.01739	-.01405	-.01408
7.320	18.352	.33080	.04038	.01078	.3478	.18141	-.01671	-.01822	-.01739	-.01430	-.01435
7.320	23.080	.49011	.05881	.01790	.42792	.24608	-.01635	-.01814	-.01818	-.01282	-.01407
7.320	27.093	.64075	.05803	.02390	.54401	.34348	-.01551	-.01677	-.01557	-.01389	-.01476
7.320	30.705	.78067	.05710	.02834	.64207	.44772	-.01714	-.01746	-.01427	-.01478	-.01530
7.320	34.799	.95327	.05631	.02831	.75065	.59027	-.01494	-.01600	-.01427	-.01208	-.01407
7.320	38.982	1.12413	.05346	.02731	.84021	.74872	-.01352	-.01595	-.01354	-.00941	-.01161
7.320	42.934	1.27885	.05085	.02313	.90180	.90818	-.01192	-.01478	-.01331	-.00698	-.00819
7.320	47.034	1.43717	.04647	.01854	.94552	1.08333	-.01007	-.01387	-.01255	-.00125	-.00313
7.320	51.181	1.58299	.04254	.01261	.95962	1.25968	-.00881	-.01172	-.01189	.00353	.00226
	GRADIENT	.03769	-.00047	.00043	.02277	.03032	.00020	.00013	.00013	.00038	.00033

AMES3.5-166 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(880001) (13 SEP 73)

REFERENCE DATA

BREF = 2660.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 DREF = 936.8600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = -14.250
 SDBRK = 55.000 RUDDER = .000

RUN NO. 10/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	2.009	-.00503	-.00097	.00015	-.39083
5.260	5.081	-.00402	-.00101	-.00009	.31861
5.260	8.715	-.00177	-.00133	-.00004	1.14911
5.260	12.815	-.00086	-.00101	-.00015	1.73973
5.260	16.823	.00036	-.00085	-.00020	1.91646
5.260	20.532	.00268	-.00086	-.00011	1.85267
5.260	24.535	.00181	-.00089	-.00030	1.70271
5.260	28.760	.00125	-.00164	-.00039	1.51656
5.260	32.738	.00096	-.00051	-.00025	1.34914
5.260	36.808	.00161	-.00076	-.00025	1.19184
5.260	40.824	.00114	-.00056	-.00020	1.05433
	GRADIENT	.00000	.00000	.00000	.00000

RUN NO. 22/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.513	-.01084	-.00071	.00012	-.54934
7.320	1.917	-.00937	-.00095	.00043	-.48316
7.320	4.936	-.00919	-.00109	.00032	.15635
7.320	8.729	-.00824	-.00108	.00011	.98123
7.320	12.658	-.00360	-.00129	.00007	1.63872
7.320	16.810	-.00388	-.00106	.00004	1.86726
7.320	20.544	-.00387	-.00142	.00007	1.81966
7.320	24.543	-.00316	-.00129	-.00008	1.68235
7.320	28.863	-.00567	-.00143	.00004	1.50962
7.320	32.797	-.00414	-.00107	-.00015	1.34243
7.320	36.908	-.00582	-.00145	-.00012	1.18802
7.320	40.811	-.00771	-.00144	-.00010	1.05401
	GRADIENT	.00039	-.00009	.00002	.20832



DATE 11 SEP 74

TABULATED DATA LISTING FOR Q423 (ARC 3.5-16c)

PAGE 41

AMES3.5-160 Q423 B22 C7 E23 F3 M4 R5 V7 W107

(063001) (13 SEP 73)

REFERENCE DATA

BREF = 2080.0000 86.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8000 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = -14.250
SPDRK = 55.000 RUDDER = .000

RUN NO. 2/ 0 RM/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.961	-.00980	-.00045	.00042	-.47564
10.290	5.009	-.00708	-.00056	.00022	.12720
10.290	8.095	-.00622	-.00070	-.00009	.94267
10.290	12.804	-.00601	-.00092	.00008	1.61552
10.290	15.795	-.00549	-.00043	-.00020	1.92295
10.290	20.533	-.00174	-.00106	-.00020	1.80790
10.290	24.397	-.00573	-.00023	-.00059	1.73982
10.290	28.664	-.00656	-.00007	-.00101	1.55325
10.290	32.549	-.00589	.00167	-.00057	1.40517
10.290	36.661	-.00563	-.00108	-.00041	1.18851
10.290	40.701	-.00578	-.00138	-.00055	1.04974
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-166 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(888002) (13 SEP 73)

REFERENCE DATA

XREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDWRK = 55.000 RUDDER = .000

RUN NO. 9/ D RN/L = 1.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.262	-.06189	-.00016	-.00197	1.54942
5.260	13.439	-.06399	-.00083	-.00219	1.66501
5.260	17.126	-.05763	-.00286	-.00256	1.84489
5.260	20.944	-.05433	-.00492	-.00286	1.81094
5.260	25.021	-.05331	-.00648	-.00358	1.67321
5.260	28.878	-.05304	-.00756	-.00404	1.90779
5.260	32.820	-.05460	-.00740	-.00492	1.34554
5.260	36.771	-.05277	-.00809	-.00511	1.19728
5.260	41.056	-.05170	-.00909	-.00526	1.05371
	GRADIENT	.00032	-.00030	-.00012	-.02184

RUN NO. 26/ D RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.023	-.05290	-.00352	-.00110	1.39210
7.320	13.228	-.05180	-.00419	-.00130	1.53978
7.320	17.139	-.04840	-.00582	-.00171	1.78628
7.320	20.872	-.04595	-.00720	-.00185	1.78155
7.320	25.052	-.04520	-.00821	-.00259	1.64764
7.320	28.929	-.04850	-.00750	-.00352	1.49098
7.320	32.756	-.04808	-.00815	-.00411	1.33984
7.320	36.904	-.04915	-.00892	-.00440	1.18682
7.320	40.976	-.05047	-.00948	-.00489	1.04832
	GRADIENT	.00006	-.00019	-.00014	-.01703

RUN NO. 8/ D RN/L = 1.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	11.984	-.04525	-.00454	-.00110	1.34185
10.290	13.232	-.04407	-.00517	-.00127	1.50603
10.290	17.070	-.04211	-.00628	-.00169	1.75103
10.290	20.891	-.04158	-.00715	-.00201	1.74600
10.290	24.962	-.04192	-.00823	-.00282	1.63163
10.290	28.780	-.04373	-.00765	-.00403	1.48226
10.290	32.592	-.04463	-.00768	-.00440	1.33410
10.290	36.745	-.04585	-.00839	-.00501	1.18207
10.290	40.812	-.04494	-.00884	-.00551	1.04706
	GRADIENT	-.00006	-.00013	-.00016	-.01554



AME33.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(000003) (13 SEP 73)

REFERENCE DATA

XREF = 2000.0000 88.FT. XMRP = 1078.4600 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 SDFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ D RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
5.260	1.916	-.01366	-.00061	.00024	-.79167
5.260	4.927	-.01192	-.00104	.00009	-.18910
5.260	8.628	-.00903	-.00135	-.00011	.65590
5.260	12.740	-.00797	-.00098	-.00029	1.40768
5.260	16.766	-.00760	-.00100	-.00043	1.72535
5.260	20.529	-.00547	-.00127	-.00032	1.73848
5.260	24.454	-.00682	-.00156	-.00057	1.63588
5.260	28.692	-.00690	-.00126	-.00072	1.47692
5.260	32.627	-.00733	-.00118	-.00070	1.32390
5.260	36.765	-.00814	-.00114	-.00072	1.17341
5.260	40.775	-.00869	-.00129	-.00080	1.04294
	GRADIENT	.00058	-.00006	-.00005	.20012

RUN NO. 17/ D RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	1.793	-.01070	-.00144	.00007	-.83360
7.320	4.928	-.00897	-.00116	.00007	-.29218
7.320	8.615	-.00727	-.00118	-.00026	.57809
7.320	12.793	-.00469	-.00118	-.00026	1.37974
7.320	16.805	-.00333	-.00108	-.00027	1.70713
7.320	20.531	-.00287	-.00141	-.00024	1.71501
7.320	24.578	-.00222	-.00111	-.00040	1.61783
7.320	28.707	-.00437	-.00128	-.00057	1.46930
7.320	32.668	-.00435	-.00108	-.00062	1.31384
7.320	36.763	-.00579	-.00126	-.00058	1.16982
7.320	40.754	-.00587	-.00154	-.00045	1.03727
	GRADIENT	.00055	.00009	-.00000	.17295

DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 44

AMES3.5-166 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(B88003) (13 SEP 73)

REFERENCE DATA

BRP = 2080.0000 98.FT. YRP = 1076.4800 IN.
 LREF = 474.6000 IN. YMRP = .0000 IN.
 BRP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 6/ 0 RNL = 1.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.914	-.01243	.00001	.00021	-.63603
10.290	4.963	-.01357	-.00035	.00023	-.09750
10.290	8.616	-.01274	-.00039	.00009	.71565
10.290	12.747	-.01119	-.00030	-.00004	1.46079
10.290	16.781	-.01123	-.00065	-.00020	1.74997
10.290	20.483	-.00767	-.00100	-.00026	1.71831
10.290	24.487	-.00769	-.00036	-.00089	1.62426
10.290	26.692	-.00811	-.00059	-.00087	1.46569
10.290	32.587	-.00890	-.00072	-.00086	1.30980
10.290	36.664	-.00694	-.00074	-.00081	1.16316
10.290	40.751	-.00729	-.00105	-.00081	1.03083
	GRADIENT	-.00037	-.00012	.00001	.17662



AMES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(88003A) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 88.FT. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 DREF = 938.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 13/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.916	-.01368	-.00085	.00024	-.79167
5.260	4.927	-.01192	-.00104	.00009	-.18910
5.260	8.628	-.00903	-.00135	-.00011	.65590
5.260	12.740	-.00797	-.00098	-.00029	1.40768
5.260	16.768	-.00760	-.00100	-.00043	1.72535
5.260	20.529	-.00547	-.00127	-.00032	1.73848
5.260	24.454	-.00682	-.00156	-.00057	1.63588
5.260	28.692	-.00690	-.00126	-.00072	1.47692
5.260	32.627	-.00733	-.00118	-.00070	1.32390
5.260	36.765	-.00814	-.00114	-.00072	1.17341
5.260	40.775	-.00869	-.00129	-.00080	1.04294
	GRADIENT	.00058	-.00006	-.00005	.20012

RUN NO. 17/ 0 RN/L = 1.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.798	-.01070	-.00144	.00007	-.83360
7.320	4.928	-.00897	-.00116	.00007	-.29218
7.320	8.615	-.00727	-.00118	-.00026	.57809
7.320	12.793	-.00469	-.00118	-.00026	1.37974
7.320	16.805	-.00333	-.00108	-.00027	1.70713
7.320	20.531	-.00287	-.00141	-.00024	1.71501
7.320	24.578	-.00222	-.00111	-.00040	1.61783
7.320	28.707	-.00437	-.00128	-.00057	1.46930
7.320	32.668	-.00435	-.00108	-.00062	1.31384
7.320	36.763	-.00579	-.00126	-.00058	1.16982
7.320	40.754	-.00587	-.00154	-.00045	1.03727
	GRADIENT	.00055	.00009	-.00000	.17295

ARC3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(88003A) (13 SEP 73)

REFERENCE DATA

XREF = 2090.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = -14.250
 SPDBRK = 35.000 RUDDER = .000

RUN NO. T/ D RV/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.842	-.00604	-.00057	.00014	-.87269
10.290	4.880	-.00572	-.00099	.00003	-.37140
10.290	8.675	-.00695	-.00105	.00006	.49148
10.290	12.799	-.00655	-.00127	.00007	1.33736
10.290	16.911	-.00642	-.00113	-.00002	1.69557
10.290	20.572	-.00709	-.00121	-.00007	1.71624
10.290	24.706	-.00781	-.00114	-.00008	1.61030
10.290	28.849	-.00893	-.00104	-.00041	1.45517
10.290	32.826	-.00944	-.00111	-.00065	1.30162
10.290	36.885	-.01056	-.00111	-.00061	1.15649
10.290	40.740	-.01222	-.00111	-.00087	1.03207
	GRADIENT	.00010	-.00013	-.00004	.15483



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 47

AME33.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(884004) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 38.FT. XMRP = 1070.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 938.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
AILRON = .000 BOFLAP = -14.250
SPDBRK = 55.000 RUCCZR = .000

RUN NO. 24/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.851	-.01129	-.00101	.00049	-.67439
7.320	4.343	-.00903	-.00099	.00041	-.01213
7.320	8.659	-.00742	-.00095	.00013	.86033
7.320	12.818	-.00408	-.00105	.00005	1.54995
7.320	16.791	-.00044	-.00075	-.00023	1.80297
7.320	20.489	-.00245	-.00103	-.00019	1.77654
7.320	24.572	-.00365	-.00121	-.00028	1.65429
7.320	28.716	-.00563	-.00125	-.00045	1.48866
7.320	32.649	-.00508	-.00115	-.00047	1.33573
7.320	36.791	-.0057.	-.00095	-.00052	1.18328
7.320	40.816	-.00809	-.00144	-.00044	1.04939
	GRADIENT	.00073	.00001	-.00003	.21419

AMES3.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W:07

(BB6005) (17 SEP 73)

REFERENCE DATA

GREF = 2680.000 38.FT. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 938.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BOFLAP = -14.250
 SFDRK = 55.000 RUDDER = .000

RUA NO. 14/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.977	-.01097	-.00096	.00025	-.18281
5.260	5.019	-.00986	-.00101	.00008	.53502
5.260	8.874	-.00834	-.00123	.00002	1.31358
5.260	12.777	-.00582	-.00093	-.00017	1.77036
5.260	16.803	-.00623	-.00108	-.00014	1.86687
5.260	20.399	-.00595	-.00140	-.00011	1.78033
5.260	20.626	-.00395	-.00120	-.00014	1.77344
5.260	24.17	-.00572	-.00158	-.00017	1.62021
5.260	28.710	-.00584	-.00143	-.00027	1.44170
5.260	32.703	-.00654	-.00124	-.00024	1.28036
5.260	36.789	-.00692	-.00127	-.00025	1.13331
5.260	40.833	-.00766	-.00150	-.00008	1.00183
	GRADIENT	.00000	.00000	.00000	.00000

RUA NO. 18/ 0 RN/L = 1.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.985	-.00741	-.00059	.00012	-.27042
7.320	5.092	-.00698	-.00087	.00013	.41197
7.320	8.740	-.00527	-.00091	.00011	1.17358
7.320	12.833	-.00316	-.00094	.00014	1.71172
7.320	16.964	-.00427	-.00124	.00015	1.83156
7.320	20.540	-.00065	-.00087	.00011	1.75662
7.320	24.580	-.00213	-.00122	-.00018	1.60649
7.320	28.719	-.00306	-.00106	-.00012	1.43421
7.320	32.599	-.00339	-.00081	-.00023	1.27946
7.320	36.758	-.00343	-.00061	-.00007	1.13223
7.320	40.819	-.00345	-.00100	.00025	.99914
	GRADIENT	.00000	.00000	.00000	.00000



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 49

AME33.5-166 OA23 B22 C7 E24 F5 H4 R5 V7 W107

(880005) (13 SEP 72)

REFERENCE DATA

SREF = 2000.0000 30.FT. XMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILPON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 3/0 RM/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C _x	C _{yN}	C _{bl}	L/D
10.290	1.960	-.01145	-.00025	.00023	-.24357
10.290	5.067	-.01132	-.00078	.00022	.42670
10.290	8.751	-.00881	-.00072	.00013	1.20070
10.290	12.833	-.00755	-.00110	.00016	1.72990
10.290	16.785	-.00781	-.00098	-.00032	1.84128
10.290	20.448	-.00523	-.00094	-.00011	1.76553
10.290	20.662	-.01129	-.00119	.00047	1.76799
10.290	24.513	-.00578	-.00093	-.00059	1.60601
10.290	28.604	-.00592	-.00082	-.00056	1.43203
10.290	32.571	-.00755	-.00108	-.00059	1.27272
10.290	36.682	-.00579	-.00124	.00019	1.12684
10.290	40.860	-.00788	-.00185	.00056	.99143
	GRADIENT	.00000	.00000	.00000	.00000

DATE 11 SEP 74

TABLATED DATA LISTING FOR OA23 (ARC 3.5-168)

PAGE 30

AME33.5-168 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(888006) (13 SEP 73)

REFERENCE DATA

BREF = 2990.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 25/ 0 RNAL = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CBL	L/D
7.320	1.775	-.01027	-.00136	.00006	-.81098
7.320	4.882	-.00678	-.00133	.00006	-.26123
7.320	8.610	-.00711	-.00131	.00007	.61086
7.320	12.779	-.00440	-.00118	.00006	1.39104
7.320	16.794	-.00353	-.00107	-.00012	1.72661
7.320	20.472	-.00297	-.00119	-.00002	1.72847
7.320	24.554	-.00185	-.00122	-.00024	1.62899
7.320	28.766	-.00401	-.00135	-.00046	1.46922
7.320	32.678	-.00488	-.00120	-.00048	1.31774
7.320	36.819	-.00576	-.00140	-.00045	1.16532
7.320	40.872	-.00505	-.00115	-.00043	1.03380
	GRADIENT	.00048	.00001	.00000	.17698



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 51

AMES3.5-166 OA23 022 C7 E23 F5 M4 R5 V7 W107

(000007) (13 SEP 73)

REFERENCE DATA

SREF = 2000.0000 30.FT. XMRP = 1076.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 DREF = 936.0000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRCON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 11/ 0 RV/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.997	-.00963	-.00112	.00003	-.36561
5.260	5.051	-.01023	-.00110	.00003	.34337
5.260	8.736	-.00677	-.00149	.00008	1.19176
5.260	12.696	-.00413	-.00104	-.00011	1.76654
5.260	16.780	-.00251	-.00093	-.00026	1.92844
5.260	20.503	-.00163	-.00116	-.00016	1.85786
5.260	24.539	-.00199	-.00146	-.00025	1.69877
5.260	28.700	-.00283	-.00114	-.00040	1.52089
5.260	32.668	-.00253	-.00100	-.00041	1.35018
5.260	36.776	-.00363	-.00096	-.00026	1.19284
5.260	40.874	-.00277	-.00104	-.00013	1.05128
	GRADIENT	.00000	.00000	.00000	.00000

RUN NO. 21/ 0 RV/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.791	-.01251	-.00098	.00046	-.50356
7.320	4.869	-.01184	-.00119	.00042	.13710
7.320	8.623	-.00917	-.00078	.00040	1.04503
7.320	12.749	-.00629	-.00117	.00008	1.66783
7.320	16.787	-.00544	-.00109	.00010	1.89090
7.320	20.470	-.00512	-.00131	.00012	1.83954
7.320	24.524	-.00517	-.00128	-.00018	1.69669
7.320	28.748	-.00603	-.00112	-.00018	1.51446
7.320	36.790	-.00939	-.00121	-.00013	1.19442
7.320	40.902	-.00818	-.00150	-.00005	1.05396
	GRADIENT	.00022	-.00007	-.00001	.20748

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TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

PAGE 52

AH33.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(888007) (13 SEP 73)

REFERENCE DATA

BREF = 2990.0000 24-FT. XMRP = 1078.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.8000 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = .000
SPDBRK = 55.000 RUDDER = .000

RUN NO. 1/0 RM/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACX	ALPHA	CX	CYN	CBL	L/D
10.290	1.910	-.00541	-.00035	.00006	-.42905
10.290	5.018	-.00363	-.00052	.00002	.14730
10.290	8.693	-.00369	-.00062	-.00004	.98094
10.290	12.716	-.00292	-.00078	-.00021	1.63078
10.290	16.773	-.00089	-.00075	-.00065	1.84756
10.290	20.458	-.00033	-.00087	-.00011	1.80744
10.290	24.502	-.00111	-.00028	-.00063	1.70344
10.290	28.641	-.00066	.00008	-.00089	1.53875
10.290	32.572	-.00065	-.00053	-.00062	1.35509
10.290	36.689	-.00206	-.00119	-.00086	1.18551
10.290	40.755	-.00304	-.00121	-.00107	1.04748
	GRADIENT	.00000	.00000	.00000	.00000



AME3.5-168 OA23 822 C7 E23 F5 M4 R5 V7 M07

(884008) (13 SEP 73)

REFERENCE DATA

REF = 2980.0000 98.FT. YMRP = 1076.4800 IN.
 REF = 474.8000 IN. YMRP = .0000 IN.
 REF = 934.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 13.750
 SPDRK = 55.000 RUDDER = .000

RUN NO. 12/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
5.260	1.915	-.01007	-.00074	.00009	-.34791
5.260	5.000	-.01021	-.00082	-.00009	.37528
5.260	8.595	-.00721	-.00108	-.00011	1.22299
5.260	12.754	-.00695	-.00092	-.00029	1.77020
5.260	16.891	-.00579	-.00083	-.00049	1.91775
5.260	20.446	-.00544	-.00078	-.00030	1.84290
5.260	24.493	-.00591	-.00134	-.00063	1.67715
5.260	28.634	-.00690	-.00086	-.00072	1.49563
5.260	32.619	-.00704	-.00049	-.00074	1.32442
5.260	36.752	-.00757	-.00054	-.00062	1.16878
5.260	40.837	-.00816	-.00074	-.00049	1.03148
	GRADIENT	-.00005	-.00003	-.00006	.23440

RUN NO. 20/ 0 RN/L = 1.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	1.747	-.01217	-.00165	.00077	-.64580
7.320	4.885	-.00927	-.00169	.00068	.32106
7.320	8.625	-.00837	-.00161	.00041	1.42922
7.320	12.770	-.00540	-.00184	.00040	2.08331
7.320	16.764	-.00495	-.00191	.00010	2.17220
7.320	20.470	.04717	-.00523	.00652	.70606
7.320	24.657	-.00581	-.00217	.00009	1.78904
7.320	28.773	-.00626	-.00187	-.07014	1.57172
7.320	32.743	-.00459	-.00177	-.00013	1.38159
7.320	36.896	-.00725	-.00184	-.00010	1.21013
7.320	40.912	-.00539	-.00213	-.00009	1.06562
	GRADIENT	.00093	-.00001	-.00003	.30810

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DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-148)

PAGE 54

AMES3.5-166 OA23 B22 C7 E23 F9 M4 R5 V7 W107

(BB0006) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
BREF = 936.6800 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
AILRON = .000 BOFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. S/ D RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.825	-.00654	-.00023	.00020	-.47199
10.290	4.940	-.00650	-.00064	.00013	.14857
10.290	8.629	-.00478	-.00059	-.00001	.97933
10.290	12.785	-.00573	-.00117	-.00026	1.66877
10.290	16.746	-.00470	-.00122	-.00059	1.85434
10.290	20.483	-.00399	-.00138	-.00026	1.78998
10.290	24.528	-.00582	-.00128	-.00110	1.64495
10.290	28.720	-.00647	-.00115	-.00111	1.46706
10.290	32.589	-.00632	-.00130	-.00065	1.31087
10.290	36.751	-.00839	-.00149	-.00105	1.15956
10.290	40.898	-.00650	-.00155	-.00010	1.02177
	GRADIENT	.00001	-.00013	-.00002	.19920



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TABULATED DATA LISTING FOR OA23 (ARC 3.5-146)

PAGE 35

ANES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(000009) (13 SEP 73)

REFERENCE DATA

BREF = 2990.0000 36.FT. WMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0190 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RV/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.914	-.01231	-.00091	.00016	-.14440
5.260	4.921	-.01153	-.00096	-.00002	.57003
5.260	8.615	-.00887	-.00122	-.00002	1.35766
5.260	12.708	-.00812	-.00100	-.00024	1.78564
5.260	16.760	-.00627	-.00095	-.00024	1.86393
5.260	20.464	-.00607	-.00133	-.00010	1.77170
5.260	24.522	-.00644	-.00151	-.00020	1.59904
5.260	28.718	-.00815	-.00169	-.00032	1.41961
5.260	32.642	-.00772	-.00141	-.00029	1.25927
5.260	36.798	-.00771	-.00129	-.00023	1.11180
5.260	40.820	-.00914	-.00170	-.00010	.98348
	GRADIENT	.00026	-.00002	-.00006	.23761

RUN NO. 19/ 0 RV/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.796	-.01380	-.00170	.00044	-.14791
7.320	5.069	-.01066	-.00150	.00042	.49685
7.320	8.614	-.00830	-.00137	.00041	1.22647
7.320	12.705	-.00764	-.00186	.00043	1.72832
7.320	16.755	-.00272	-.00124	.00008	1.83657
7.320	20.485	-.00372	-.00143	.00044	1.74999
7.320	24.515	-.00605	-.00156	.00017	1.59424
7.320	28.671	-.00666	-.00155	.00009	1.41847
7.320	32.599	-.00467	-.00128	.00009	1.26167
7.320	36.651	-.00570	-.00153	.00018	1.11751
7.320	40.846	-.02767	-.02133	.01329	.97282
	GRADIENT	.00000	.00000	.00000	.00000

DATE 11 SEP 74

TABULATED DATA LISTING FOR Oa23 (ARC 3.5-166)

PAGE 56

AMES3.5-166 Oa23 B22 C7 E23 F5 M4 R5 V7 W107

(880009) (13 SEP 73)

REFERENCE DATA

BREF = 2660.0000 SQ.FT. XMRP = 1076.4600 IN.
LREF = 474.8000 IN. YMRP = .0000 IN.
DREF = 936.6000 IN. ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
AILRON = .000 BOFLAP = 13.750
SPDBRK = 55.000 RUDDER = .000

RUN NO. 4/0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
10.290	1.849	-.01669	-.00054	.00053	-.21462
10.290	4.945	-.01536	-.00076	.00036	.41871
10.290	8.636	-.01562	-.00110	.00023	1.21706
10.290	12.700	-.01223	-.00104	.00011	1.75667
10.290	16.758	-.01041	-.00066	-.00022	1.88109
10.290	20.468	-.00972	-.00039	-.00050	1.79270
10.290	24.438	-.00854	-.00015	-.00058	1.63289
10.290	28.583	-.00908	-.00005	-.00092	1.45195
10.290	32.546	-.00847	.00145	-.00105	1.30330
10.290	36.692	-.01099	.00247	-.00098	1.15379
10.290	40.709	-.00760	-.00211	.00067	.97682
	GRADIENT	.00042	-.00007	-.00006	.20454



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-166)

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AMES3.5-166 OA23 B22 C7 E23 F5 M4 R5 V7 W107

(88609A) (13 SEP 73)

REFERENCE DATA

BREF = 2000.0000 36.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.6800 IN. ZMRP = 460.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 15/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	1.914	-.01231	-.00091	.00016	-.14440
5.260	4.921	-.01153	-.00096	-.00002	.57003
5.260	8.615	-.00887	-.00122	-.00002	1.35766
5.260	12.708	-.00812	-.00100	-.00024	1.78564
5.260	16.760	-.00627	-.00095	-.00024	1.86393
5.260	20.464	-.00607	-.00133	-.00010	1.77170
5.260	24.522	-.00644	-.00151	-.00020	1.59904
5.260	28.718	-.00815	-.00169	-.00032	1.41961
5.260	32.642	-.00772	-.00141	-.00029	1.25927
5.260	36.798	-.00771	-.00129	-.00023	1.11180
5.260	40.820	-.00914	-.00170	-.00010	.98348
	GRADIENT	.00026	-.00002	-.00006	.23761

RUN NO. 23/ 0 RN/L = 2.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.760	-.01013	-.00063	.00071	-.23043
7.320	4.849	-.00663	-.00044	.00046	.45095
7.320	8.603	-.00598	-.00063	.00038	1.25719
7.320	12.765	-.00225	-.00094	.00036	1.76437
7.320	16.785	-.00170	-.00072	.00016	1.85866
7.320	20.458	-.00339	-.00132	.00011	1.75743
7.320	24.552	-.00274	-.00112	.00013	1.60518
7.320	28.693	-.00544	-.00107	.00019	1.42429
7.320	32.709	-.00469	-.00095	.00021	1.26353
7.320	36.787	-.00597	-.00126	.00025	1.11883
	GRADIENT	.00114	.00006	-.00008	.22113

AME83,5-160 OA23 B22 C7 E23 F3 M4 R5 V7 W107

(88609A) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 50.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 DREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0150 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 4/ 0 RN/L = 1.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	1.849	-.01669	-.00054	.00053	-.21482
10.290	4.945	-.01538	-.00076	.00036	.41871
10.290	8.638	-.01562	-.00110	.00023	1.21706
10.290	12.700	-.01222	-.00104	.00011	1.75667
10.290	16.758	-.01041	-.00066	-.00022	1.88109
10.290	20.468	-.00972	-.00039	-.00050	1.79270
10.290	24.438	-.00854	-.00015	-.00058	1.63289
10.290	28.583	-.00808	-.00005	-.00092	1.45195
10.290	32.515	-.00847	.00145	-.00105	1.30330
10.290	36.612	-.01099	.00247	-.00098	1.15379
10.290	40.709	-.00760	-.00211	.00067	.97683
	GRADIENT	.00042	-.00007	-.00006	.20454



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.5-168)

PAGE 59

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(BB8010) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 88.FT. XMRP = 1078.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 938.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 55/ 0 RN/L = 2.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.240	-.00637	-.00046	-.00041	1.66128
5.260	15.296	-.00602	-.00047	-.00059	1.87856
5.260	18.454	-.00372	-.00046	-.00078	1.92307
5.260	23.095	-.00073	-.00073	-.00052	1.77799
5.260	27.026	.00098	-.00025	-.00068	1.60944
5.260	30.751	.00706	.00004	-.00121	1.44601
5.260	34.762	.00479	.00006	-.00093	1.28045
5.260	39.027	.00875	.00031	-.00078	1.12233
5.260	42.894	.00997	-.00008	-.00081	.99291
5.260	47.060	.01255	-.00005	-.00055	.86816
5.260	51.086	.01651	-.00007	.00038	.75861
	GRADIENT	.00058	.00002	.00001	-.03016

RUN NO. 27/ 0 RN/L = 1.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.222	-.01662	-.00277	.00039	1.57476
7.320	15.299	-.01035	-.00179	.00025	1.81375
7.320	18.615	-.01213	-.00144	.00021	1.90940
7.320	23.183	-.01301	-.00254	.00039	1.77330
7.320	27.162	-.00696	-.00045	.00057	1.60431
7.320	30.845	-.00094	-.00047	.00084	1.43949
7.320	34.933	-.00461	-.00037	.00057	1.27412
7.320	39.093	-.00505	-.00063	.00066	1.12032
7.320	42.965	-.00375	.00003	.00132	.99162
7.320	47.143	-.00392	-.00200	.00123	.86601
7.320	51.147	.00560	.00069	.00193	.75711
	GRADIENT	.00041	.00006	.00003	-.02849

AMES3.5-168 OA23 819 C7 E23 F5 H4 N8 R5 V7 W107

(880011) (13 SEP 73)

REFERENCE DATA

SREF = 2490.0000 SQ.FT. WMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 52/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.300	-.01051	-.00117	-.00019	1.66192
5.260	15.306	-.00549	-.00021	-.00007	1.87653
5.260	18.622	-.00327	-.00043	-.00015	1.89214
5.260	23.082	-.00336	-.00101	-.00024	1.74997
5.260	27.001	.00127	-.00021	-.00043	1.58226
5.260	30.744	.00433	-.00077	-.00040	1.42931
5.260	34.758	.00272	-.00020	-.00082	1.25849
5.260	38.976	.00722	.00012	-.00053	1.10508
5.260	42.760	.01156	.00027	-.00038	.98048
5.260	47.005	.01328	.00011	-.00026	.85473
5.260	50.899	.01544	-.00024	.00064	.74988
	GRADIENT	.00063	.00002	.00000	-.03034

RUN NO. 28/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.186	-.00603	-.00139	-.00001	1.60800
7.320	15.248	-.00169	-.00101	.00006	1.88283
7.320	18.597	-.00047	-.00050	-.00001	1.91341
7.320	23.166	-.00027	-.00087	.00021	1.77152
7.320	27.061	.00317	.00014	.00030	1.59698
7.320	30.861	.00698	.00030	.00050	1.42528
7.320	34.944	.00611	.00053	.00052	1.25885
7.320	38.985	.00619	.00041	.00080	1.10926
7.320	43.032	.00913	.00049	.00115	.97379
7.320	47.091	.01069	.00022	.00133	.85294
7.320	51.150	.01445	.00073	.00172	.74293
	GRADIENT	.00045	.00005	.00004	-.02998



AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(886012) (13 SEP 73)

REFERENCE DATA

XREF = 2880.0000 38.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6600 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 56/ 0 RN/L = 2.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.267	-.01059	-.00053	-.00036	1.65423
5.260	13.294	-.00905	-.00084	-.00049	1.88889
5.260	18.513	-.00650	-.00066	-.00071	1.92231
5.260	23.068	-.00275	-.00074	-.00063	1.77902
5.260	27.032	-.00029	-.00024	-.00061	1.60488
5.260	30.731	.00372	-.00035	-.00108	1.44284
5.260	34.806	.00267	-.00000	-.00089	1.27767
5.260	38.951	.00511	.00019	-.00107	1.12623
5.260	42.829	.00617	-.00019	-.00080	.99707
5.260	47.061	.00972	-.00010	-.00037	.87003
5.260	51.029	.01143	-.00034	.00038	.76258
	GRADIENT	.00056	.00002	.00001	-.03012

RUN NO. 29/ 0 RN/L = 1.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.205	-.00694	-.00139	.00019	1.61525
7.320	15.250	-.00553	-.00120	.00021	1.85276
7.320	18.551	-.00125	-.00044	.00020	1.90865
7.320	23.155	-.00060	-.00044	.00042	1.77923
7.320	27.161	.00125	.00011	.00031	1.60583
7.320	30.839	.00044	-.00065	.00043	1.44197
7.320	34.953	.00574	.00113	.00053	1.27431
7.320	39.154	.00678	.00067	.00084	1.12093
7.320	43.071	.00821	.00078	.00111	.99000
7.320	51.133	.01206	.00092	.00151	.76003
	GRADIENT	.00047	.00006	.00003	-.02864

AME3.5-166 OA23 B19 C7 E23 F5 H4 N6 R5 V7 W107

(886013) (13 SEP 73)

REFERENCE DATA

BREF = 2090.0000 IN. FT. YMRP = 1076.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 939.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVEN = 10.000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 317 0 RN/L = 2.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.128	-.01177	-.00216	-.00001	1.50147
7.320	15.255	-.00612	-.00158	.00006	1.78972
7.320	18.477	-.00612	-.00142	.00009	1.85078
7.320	23.141	-.00408	-.00120	.00023	1.72502
7.320	27.152	-.00379	-.00080	.00025	1.56407
7.320	30.820	.00317	-.00049	.00042	1.40227
7.320	34.806	.00111	-.00014	.00041	1.24459
7.320	39.076	.00280	-.00003	.00076	1.08910
7.320	42.980	.00756	.00043	.00090	.96091
7.320	47.110	.00721	.00042	.00113	.84014
7.320	51.159	.00592	-.00011	.00147	.73158
	GRADIENT	.00046	.00006	.00004	-.02761



DATE 11 SEP 74

TABULATED DATA LISTING FOR OA23 (ARC 3.3-166)

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AMES3.3-166 OA23 E19 C7 E23 F5 M4 N6 R3 V7 W107

(888019) (13 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1078.4000 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6400 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AIRCRN = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 31/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CBL	L/D
5.260	12.250	-.00920	-.00072	-.00023	1.72836
5.260	15.747	-.00671	-.00049	-.00042	1.87817
5.260	18.579	-.00398	-.00045	-.00050	1.86443
5.260	23.084	-.00241	-.00058	-.00043	1.70622
5.260	27.034	.00011	-.00010	-.00012	1.53691
5.260	30.755	.00426	-.00047	-.00081	1.38768
5.260	34.814	.00463	.00033	-.00095	1.21834
5.260	38.992	.00728	.00047	-.00077	1.07000
5.260	42.927	.01739	.00045	-.00046	.94469
5.260	47.091	.01116	-.00026	-.00016	.82442
5.260	51.131	.01678	-.00001	.00106	.71933
	GRADIENT	.00062	.00002	.00002	-.03154

RUN NO. 32/ 0 RN/L = 1.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CBL	L/D
7.320	12.115	-.01514	-.00222	-.00004	1.59714
7.320	15.203	-.00994	-.00155	-.00005	1.83006
7.320	18.440	-.00681	-.00116	-.00004	1.86939
7.320	23.066	-.00253	-.00082	.00020	1.71794
7.320	27.009	-.00018	-.00010	.00030	1.55273
7.320	30.904	.00526	.00021	.00019	1.38846
7.320	34.780	.00380	.00031	.00071	1.22893
7.320	39.946	.00872	.00072	.00079	1.07568
7.320	42.870	.01045	.00078	.00126	.94880
7.320	47.018	.01293	.00067	.00159	.82782
7.320	51.064	.01163	.00006	.00159	.72149
	GRADIENT	.00070	.00007	.00075	-.02958

AMES3,5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(BB8D16) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.105	-.01472	-.00247	.00052	1.27379
7.320	15.164	-.00683	-.00182	.00064	1.64140
7.320	18.451	-.00755	-.00163	.00064	1.76476
7.320	23.063	-.00263	-.00096	.00094	1.67978
7.320	26.991	-.00093	-.00074	.00109	1.53893
7.320	30.898	.02450	-.00199	-.00102	.58947
7.320	34.872	.00664	.00005	.00121	1.22934
7.320	38.978	.00815	.00040	.00160	1.08563
7.320	42.953	.01039	.00035	.00164	.95988
7.320	47.068	.01179	.00021	.00195	.84159
7.320	51.160	.01567	.00065	.00245	.73338
	GRADIENT	.00070	.00008	.00034	-.02278

AMES3,5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(BB8D17) (13 SEP 73)

REFERENCE DATA

SREF = 2890.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 34/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.151	-.01195	-.00195	.00071	1.17988
7.320	15.272	-.01099	-.00149	.00049	1.57726
7.320	18.538	-.00728	-.00137	.00059	1.74068
7.320	23.164	-.00438	-.00075	.00081	1.68518
7.320	27.195	-.00261	-.00019	.00086	1.54579
7.320	31.011	.00528	.00058	.00092	1.39831
7.320	34.957	.00329	.00046	.00093	1.24487
7.320	39.150	.00464	.00043	.00114	1.09861
7.320	43.035	.00618	.00047	.00127	.97421
7.320	47.128	.00868	.00069	.00151	.85493
7.320	51.248	.00840	.00039	.00188	.74601
	GRADIENT	.00056	.00006	.00003	-.02063



AMESS.5-1% OA23 B19 CT E23 F5 M4 M8 R3 V7 W107

(000010) (13 SEP 73)

REFERENCE DATA

BREF = 2090.0000 30.FT. XMRP = 1076.4000 IN.
 LREF = 474.0000 IN. YMRP = .0000 IN.
 BREF = 938.6000 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 33/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.357	-.01348	-.00061	.00024	1.18820
5.260	15.383	-.00951	-.00047	.00022	1.56456
5.260	18.608	-.00676	-.00051	.00006	1.72742
5.260	23.193	-.00211	-.00054	.00018	1.68023
5.260	27.190	.00047	-.00015	-.00005	1.54255
5.260	30.835	.00523	.00018	-.00008	1.40969
5.260	34.876	.00367	.00055	-.00010	1.25103
5.260	39.036	.00492	.00038	-.00031	1.10672
5.260	43.015	.00876	.00066	-.00016	.98014
5.260	47.068	.01032	.00038	.00015	.86228
5.260	51.183	.01300	.00030	.00141	.75290
	GRADIENT	.00063	.00003	.00001	-.02040

RUN NO. 35/ 0 RN/L = 1.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.075	-.01207	-.00188	.00031	1.17260
7.320	15.152	-.01152	-.00201	.00024	1.60001
7.320	18.327	-.00789	-.00136	.00028	1.74900
7.320	23.040	-.00308	-.00087	.00060	1.68984
7.320	27.086	-.00046	-.00053	.00057	1.55227
7.320	30.934	.00803	.00070	.00054	1.39797
7.320	34.839	.00504	.00050	.00087	1.24811
7.320	39.008	.00688	.00078	.00113	1.10311
7.320	43.000	.00809	.00075	.00129	.97648
7.320	47.106	.01181	.00095	.00156	.85756
7.320	51.213	.01481	.00143	.00191	.74832
	GRADIENT	.00069	.00009	.00004	-.02073

AME33,3-188 OA23 B19 C7 E23 F5 H4 M6 R5 V7 W107

(88818A) (13 SEP 73)

REFERENCE DATA

BREF = 2980.0000 36.FT. MCRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8600 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 BDFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 53/ 0 RN/L = 1.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.357	-.01348	-.00081	.00024	1.18820
5.260	15.383	-.00951	-.00047	.00022	1.56456
5.260	18.608	-.00676	-.00051	.00006	1.72742
5.260	23.193	-.00211	-.00054	.00018	1.68023
5.260	27.190	.00047	-.00015	-.00005	1.54253
5.260	30.835	.00523	.00018	-.00008	1.40969
5.260	34.876	.00387	.00055	-.00010	1.25103
5.260	39.036	.00492	.00038	-.00031	1.10672
5.260	43.015	.00876	.00066	-.00016	.98014
5.260	47.068	.01032	.00038	.00015	.86422
5.260	51.183	.01300	.00030	.00141	.75290
	GRADIENT	.00063	.00003	.00001	-.02040

RUN NO. 36/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	22.139	-.01198	-.00232	.00009	1.69865
7.320	25.283	-.00858	-.00163	.00025	1.61021
7.320	28.981	-.00664	-.00114	.00029	1.47765
7.320	33.202	.00391	.00005	.00020	1.31448
7.320	37.204	-.00164	-.00049	.00072	1.16567
7.320	40.999	.00261	-.00033	.00095	1.04001
7.320	44.987	.00541	.00017	.00094	.91933
7.320	49.133	.00804	.00048	.00104	.80498
7.320	53.184	.01009	.00048	.00124	.70232
7.320	56.103	.01238	.00055	.00145	.63238
7.320	58.301	.01348	.00076	.00157	.58100
	GRADIENT	.00070	.00007	.00004	-.03151

AMES3.5-166 OA23 B19 C7 E23 F3 M4 M8 R5 V7 W107

(000019) (13 SEP 73)

REFERENCE DATA

BREF = 2880.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALF

PARAMETRIC DATA

BETA = .000 ELEVON = -30.000
 AIRON = .000 BOFLAP = -14.250
 *DBRK = 55.000 RUDDER = .000

RUN NO. 37/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CBL	L/D
7.320	12.055	-.00956	-.00169	.00030	1.35567
7.320	15.154	-.00554	-.00112	.00026	1.69772
7.320	18.400	-.00409	-.00107	.00026	1.81291
7.320	23.049	-.00212	-.00062	.00025	1.72065
7.320	27.022	.00251	.00012	.00025	1.57196
7.320	30.707	.00645	.00025	.00030	1.41894
7.320	34.795	.00584	.00074	.00046	1.26194
7.320	38.989	.00448	.00028	.00073	1.11265
7.320	42.928	.00980	.00096	.00089	.98629
7.320	47.024	.01206	.00152	.00109	.86707
7.320	51.099	.01213	.00137	.00148	.75865
	GRADIENT	.00054	.00008	.00003	-.02399

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(886020) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 98.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = .000 BCFLAP = -14.250
 SPD BRK = 55.000 RUDDER = .000

RUN NO. 54/ 0 RN/L = 2.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
5.260	12.304	-.01055	-.00064	-.00005	1.49143
5.260	15.326	-.00731	-.00044	-.00017	1.76467
5.260	18.650	-.00538	-.00032	-.00038	1.85409
5.260	23.178	-.00047	-.00041	-.00006	1.74951
5.260	27.134	.00172	.00019	-.00018	1.59499
5.260	30.803	.00476	-.00022	-.00059	1.44352
5.260	34.823	.00365	.00036	-.00027	1.28049
5.260	39.025	.00503	.00043	-.00082	1.12808
5.260	42.922	.00702	.00033	-.00092	1.00127
5.260	47.034	.00930	.00025	-.00020	.87977
5.260	51.120	.01341	.00035	.00046	.76867
	GRADIENT	.00054	.00003	-.00000	-.02631

RUN NO. 38/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	12.033	-.01685	-.00274	.00031	1.41868
7.320	15.099	-.00803	-.00169	.00035	1.74673
7.320	18.326	-.00445	-.00110	.00043	1.83356
7.320	23.030	-.00301	-.00085	.00054	1.73861
7.320	27.036	-.00152	-.00020	.00048	1.58558
7.320	30.703	.00749	.00059	.00056	1.43470
7.320	34.784	.00402	.00047	.00059	1.27332
7.320	38.997	.00572	.00054	.00093	1.12276
7.320	42.945	.00788	.00067	.00094	.99503
7.320	47.039	.01144	.00093	.00126	.87544
7.320	51.119	.01180	.00093	.00151	.76552
	GRADIENT	.00064	.00009	.00003	-.02507



AME33.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(BB8021) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = .000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 39/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	12.096	-.00437	-.00107	.00008	1.50250
7.320	15.167	-.00388	-.00118	.00013	1.79576
7.320	18.375	-.00147	-.00069	.00010	1.86690
7.320	23.015	-.00090	-.00066	.00021	1.76564
7.320	27.028	.00076	-.00024	.00015	1.60368
7.320	30.739	.00431	.00034	.00022	1.44621
7.320	34.806	.00622	.00060	.00023	1.28118
7.320	39.016	.01023	.00091	.00057	1.12908
7.320	42.965	.01045	.00074	.00085	.99889
7.320	47.065	.01310	.00084	.00122	.87669
7.320	51.117	.01700	.00135	.00124	.76670
	GRADIENT	.00055	.00007	.00003	-.02679

AME33.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(BB8022) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = -10.000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 40/ 0 RN/L = 1.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	12.071	-.00734	-.00002	-.00437	1.52941
7.320	15.164	-.00817	-.00000	-.00565	1.81746
7.320	18.339	-.00645	.00059	-.00740	1.87014
7.320	23.077	-.00451	.00190	-.00941	1.74231
7.320	27.101	-.00194	.00302	-.01164	1.57794
7.320	30.713	-.00058	.00449	-.01354	1.42369
7.320	34.799	-.00056	.00443	-.01527	1.26071
7.320	38.986	.00062	.00498	-.01651	1.10955
7.320	42.941	-.00176	.00499	-.01754	.97943
7.320	47.029	.00130	.00529	-.01857	.85968
7.320	51.120	.00280	.00578	-.01966	.74940
	GRADIENT	.00026	.00016	-.00040	-.02777

AME33.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(880025) (13 SEP 73)

REFERENCE DATA

CRZF = 2890.0000 80.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 57/ 0 RN/L = 2.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
5.260	12.334	-.06161	-.00122	-.00559	1.58655
5.260	15.373	-.05821	-.00307	-.00627	1.82394
5.260	18.664	-.05313	-.00468	-.00682	1.86421
5.260	23.245	-.04853	-.00670	-.00798	1.74941
5.260	27.180	-.04602	-.00806	-.00908	1.58658
5.260	30.805	-.04099	-.00728	-.01112	1.43776
5.260	31.027	-.04517	-.00679	-.01070	1.42570
5.260	34.943	-.03978	-.00741	-.01170	1.27044
5.260	39.122	-.03706	-.00817	-.01276	1.11808
5.260	43.096	-.03375	-.00877	-.01310	.98792
5.260	47.200	-.02803	-.00932	-.01246	.86621
5.260	51.219	-.02255	-.01013	-.01042	.75687
	GRADIENT	.00093	-.00019	-.00018	-.02831

RUN NO. 43/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	12.191	-.05307	-.00479	-.00363	1.41333
7.320	15.308	-.04638	-.00548	-.00429	1.73201
7.320	18.635	-.04175	-.00645	-.00492	1.82726
7.320	23.236	-.04024	-.00859	-.00581	1.73405
7.320	27.216	-.03782	-.00772	-.00724	1.57375
7.320	30.888	-.02977	-.00812	-.00866	1.42701
7.320	34.904	-.03229	-.00647	-.00968	1.26562
7.320	39.138	-.02573	-.00644	-.01016	1.11459
7.320	43.087	-.02351	-.00726	-.01060	.98695
7.320	47.194	-.02216	-.00814	-.01072	.86563
7.320	51.336	-.01809	-.00793	-.01048	.75460
	GRADIENT	.00082	-.00015	-.00020	-.02513



AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(886026) (13 SEP 73)

REFERENCE DATA

BREF = 2660.0000 96.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = -10.000

RUN NO. 44/ 0 RN/L = 2.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	2.448	-.02297	.00191	-.00175	-.57275
7.320	5.515	-.02124	.00115	-.00174	.03761
7.320	9.291	-.01439	.00082	-.00134	.92897
7.320	13.460	-.00731	-.00036	-.00075	1.61764
7.320	17.401	-.00540	-.00087	-.00064	1.83754
7.320	21.137	-.00107	-.00064	-.00057	1.81080
7.320	25.205	-.00074	-.00050	-.00041	1.66327
7.320	29.416	.00298	.00042	-.00052	1.48401
7.320	33.275	.00519	.00062	-.00040	1.32901
7.320	37.439	.00699	.00082	-.00033	1.17159
7.320	41.531	.01063	.00054	.00004	1.03095
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(886027) (13 SEP 73)

REFERENCE DATA

BREF = 2660.0000 96.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 85.000 RUDDER = .000

RUN NO. 45/ 0 RN/L = 2.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	2.362	-.01684	-.00031	-.00054	-.57604
7.320	5.443	-.01216	-.00076	-.00052	.00975
7.320	9.105	-.01078	-.00160	-.00039	.87413
7.320	13.290	-.00391	-.00159	-.00015	1.57252
7.320	17.316	-.00372	-.00180	-.00023	1.82623
7.320	20.983	.00253	-.00078	-.00017	1.81155
7.320	25.085	.00388	-.00035	-.00024	1.67040
7.320	29.271	.00476	.00025	-.00036	1.49267
7.320	33.242	.00457	.00025	-.00039	1.32971
7.320	37.431	.00794	.00079	-.00022	1.17241
7.320	41.374	.01198	.00095	.00007	1.03667
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(888028) (13 SEP 73)

REFERENCE DATA

BREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.290
 SPOBRK = 85.000 RUDDER = -10.000

RUN NO. 49/ 0 RN/L = 1.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	1.998	-.02484	.00532	-.00282	-.80134
7.320	5.065	-.02053	.00484	-.00290	-.09346
7.320	8.851	-.01644	.00293	-.00216	.80381
7.320	13.010	-.00616	.00119	-.00117	1.56996
7.320	16.934	-.00137	.00056	-.00044	1.86572
7.320	20.618	.00228	.00030	-.00036	1.84977
7.320	24.757	.00232	.00091	-.00020	1.69319
7.320	28.964	.00565	.00131	-.00022	1.51277
7.320	32.878	.00497	.00065	-.00000	1.34891
7.320	36.989	.01006	.00140	.00017	1.19106
7.320	41.061	.00811	.00070	.00052	1.04785
	GRADIENT	.00000	.00000	.00000	.00000

AMES3.5-166 OA23 B19 C7 F5 V7 R5 M4

(888029) (13 SEP 73)

REFERENCE DATA

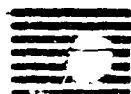
BREF = 2890.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0200 SCALE

PARAMETRIC DATA

BETA = .000 BOFLAP = -14.290
 SPOBRK = 85.000 RUDDER = .000

RUN NO. 46/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
7.320	11.999	-.01134	-.00136	.00009	.88012
7.320	15.099	-.00927	-.00088	.00007	1.35921
7.320	18.313	-.00711	-.00102	.00010	1.61105
7.320	23.008	-.00613	-.00084	.00003	1.82535
7.320	27.034	-.00490	-.00035	.00003	1.50182
7.320	30.723	.00616	.00006	.00036	1.37535
7.320	34.814	.00194	.00046	.00035	1.21956
7.320	38.975	.00385	.00017	.00041	1.08119
7.320	42.950	.00454	.00039	.00052	.95763
7.320	47.039	.00666	.00051	.00070	.84205
7.320	51.073	.00776	.00073	.00080	.73895
	GRADIENT	.00050	.00005	.00002	-.01445



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TABULATED DATA LISTING FOR QAZ3 (ARC 3.5-166)

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(886030) (15 SEP 73)

REFERENCE DATA

WREF = 2890.0000 80.FT. XMRP = 1076.4800 IN.
 UREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 SOFLAP = -14.250

RUN NO. 47/ 0 RN/L = 2.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	12.008	-.01378	-.00186	.00032	1.08907
7.320	15.055	-.00934	-.00144	.00032	1.51240
7.320	18.350	-.00948	-.00109	.00032	1.69824
7.320	23.026	-.00918	-.00033	.00031	1.85731
7.320	27.020	-.00480	-.00029	.00031	1.54036
7.320	30.676	.00046	-.00040	.00047	1.38059
7.320	34.784	-.00160	-.00016	.00064	1.23510
7.320	38.981	.00248	.00034	.00068	1.08998
7.320	42.908	.00357	.00031	.00072	.96621
7.320	47.000	.00630	.00082	.00079	.84996
7.320	51.109	.01028	.00152	.00093	.74195
	GRADIENT	.00055	.00007	.00002	-.01678

AME33.5-166 QAZ3 B19 C7

(886031) (13 SEP 73)

REFERENCE DATA

WREF = 2890.0000 80.FT. XMRP = 1076.4800 IN.
 UREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 48/ 0 RN/L = 2.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	11.985	-.00566	-.00092	.00005	1.09872
7.320	15.092	-.00358	-.00064	.00008	1.50773
7.320	18.321	-.00240	-.00028	.00006	1.68340
7.320	23.051	-.00088	.00001	.00005	1.84323
7.320	27.030	-.00181	.00023	.00001	1.52182
7.320	30.719	.00328	.00037	.00002	1.37031
7.320	34.782	.00323	.00064	.00039	1.22457
7.320	38.904	.00248	.00012	.00035	1.07619
7.320	42.956	.00507	.00053	.00046	.95303
7.320	47.029	.00429	.00045	.00061	.83601
7.320	51.005	.00647	.00079	.00067	.73201
	GRADIENT	.00029	.00004	.00002	-.01904

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(886032) (13 SEP 73)

REFERENCE DATA

BRFP = 239.0000 SQ.FT. CRFP = 1076.4800 IN.
 LRFP = 474.0000 IN. YMRP = .0000 IN.
 BRFP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = 5.000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 58/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.331	-.05175	-.00634	-.00326	1.35494
10.290	15.416	-.04526	-.00662	-.00387	1.68679
10.290	18.705	-.04204	-.00734	-.00477	1.79947
10.290	23.255	-.03978	-.00830	-.00625	1.71965
10.290	27.286	-.03847	-.00750	-.00719	1.56794
10.290	30.895	-.03369	-.00733	-.00944	1.41380
10.290	34.974	-.03819	-.00764	-.00990	1.25919
10.290	39.163	-.03574	-.00804	-.01118	1.10761
10.290	43.130	-.03225	-.00880	-.01127	.97873
10.290	47.231	-.02640	-.00923	-.01212	.85871
10.290	51.289	-.02383	-.00938	-.01253	.75063
	GRADIENT	.00058	-.00007	-.00026	-.02409

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R5 V7 W107

(886033) (13 SEP 73)

REFERENCE DATA

BRFP = 2880.0000 SQ.FT. CRFP = 1076.4800 IN.
 LRFP = 474.0000 IN. YMRP = .0000 IN.
 BRFP = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 59/ 0 RN/L = 2.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.259	-.01465	-.00132	-.00004	1.45528
10.290	15.326	-.00807	-.00061	-.00004	1.75862
10.290	18.579	-.00694	-.00074	-.00005	1.85735
10.290	23.066	-.00447	-.00032	-.00009	1.74973
10.290	27.176	-.00172	.00022	-.00046	1.58775
10.290	30.827	.00500	.00031	.00063	1.43448
10.290	34.849	.00069	.00022	-.00065	1.27157
10.290	39.029	.00313	.00034	-.00022	1.11793
10.290	42.976	.00800	.00070	-.00016	.98800
10.290	47.091	.01093	.00042	.00035	.86705
10.290	51.183	.01486	.00039	.00081	.75569
	GRADIENT	.00066	.00004	.00001	-.02621



AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R3 V7 W107

(888034) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 90.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 00/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.291	-.00802	.00113	-.00063	3.49845
10.290	15.344	.00042	.00057	-.00021	1.89037
10.290	18.591	.00016	.00053	-.00070	1.83641
10.290	23.183	.00257	.00060	-.00072	1.74544
10.290	27.125	.00696	.00117	-.00072	1.59010
10.290	30.833	.00914	.00112	-.00006	1.45833
10.290	34.836	.01008	.00137	-.00074	1.27199
10.290	39.064	.00950	.00097	-.00018	1.11733
10.290	42.955	.01359	.00113	.00022	.98854
10.290	47.075	.01261	.00069	-.00169	.86558
10.290	51.147	.01606	.00025	.00152	.75533
	GRADIENT	.00052	-.00000	.00002	-.04981

AMES3.5-166 OA23 B19 C7 E23 F5 M4 N6 R3 V7 W107

(888035) (13 SEP 73)

REFERENCE DATA

SREF = 2990.0000 90.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 SREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = 13.750
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 01/ 0 RN/L = 1.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	L/D
10.290	12.281	-.01811	.00101	-.00078	11.49910
10.290	15.323	-.00972	-.00055	-.00042	2.73505
10.290	18.604	-.00789	-.00043	-.00039	2.00869
10.290	23.196	-.00593	-.00066	-.00061	1.73014
10.290	27.158	-.00275	-.00047	-.00026	1.56895
10.290	30.858	.00546	-.00011	-.00008	1.41010
10.290	34.889	.00095	-.00040	-.00016	1.24755
10.290	39.043	.00492	.00001	.00052	1.09708
10.290	42.981	.01064	.00029	.00145	.96966
10.290	47.098	.01144	-.00016	.00056	.84866
10.290	51.174	.01550	-.00008	.00111	.73986
	GRADIENT	.00077	.00000	.00005	-.14734

A9E33.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107

(886036) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = .000 JOFLAP = 13.750
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 62/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
10.290	12.274	-.00985	-.00080	-.00003	1.55437
10.290	15.329	-.00856	-.00104	-.00006	1.82011
10.290	18.809	-.00603	-.00083	.00018	1.84704
10.290	23.171	-.00377	-.00040	.00003	1.71310
10.290	27.188	-.00164	-.00052	-.00021	1.53884
10.290	30.881	.00481	-.00032	.00036	1.37399
10.290	34.863	.00368	.00031	-.00018	1.21635
10.290	39.073	.00617	.00038	.00040	1.06608
10.290	43.017	.00958	.00047	.00059	.94007
10.290	47.086	.01255	.00047	.00047	.82287
10.290	51.152	.01507	.00023	.00134	.71696
	GRADIENT	.00065	.00004	.00003	-.02915

A9E33.5-168 OA23 B19 C7 E23 F5 H4 N8 R5 V7 W107

(886037) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.8800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 JOFLAP = -14.250
 SPDBRK = 55.000 RUDDER = .000

RUN NO. 63/ 0 RN/L = 1.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
10.290	12.246	-.01382	-.00162	.00018	1.6405
10.290	15.348	-.00782	-.00067	.00004	1.51734
10.290	18.582	-.00679	-.00065	.00019	1.73143
10.290	23.213	-.00223	-.00008	-.00011	1.67717
10.290	27.099	.00067	.00026	-.00016	1.54224
10.290	30.785	.00491	.00005	.00011	1.40264
10.290	34.836	.00348	.00035	.00039	1.24387
10.290	39.032	.00491	.00038	.00011	1.09781
10.290	42.986	.00701	.00022	.00142	.97202
10.290	47.129	.00682	.00033	.00042	.85260
10.290	51.183	.01128	.00037	.00098	.74769
	GRADIENT	.00058	.00004	.00002	-.02065



AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(088038) (13 SEP 73)

REFERENCE DATA

SREF = 2880.0100 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -40.000
 AILRON = .000 SFLAP = -14.250
 SPCBRK = 55.000 RUDDER = .000

RUN NO. 64/ 0 RN/L = 1.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CSL	L/D
10.290	12.158	-.01337	-.00128	.00012	1.05887
10.290	15.276	-.00869	-.00083	.00010	1.49365
10.290	18.507	-.00460	-.00074	.00002	1.65443
10.290	23.170	-.00263	-.00024	.00006	1.63681
10.290	27.119	.00677	.00124	-.00002	1.51396
10.290	30.812	.00579	.00051	.00025	1.39083
10.290	34.946	.00726	.00134	-.00007	1.22688
10.290	39.113	.01066	.00199	-.00030	1.08813
10.290	42.923	.01251	.00161	.00021	.96806
10.290	47.105	.01013	.00208	.00048	.85174
10.290	51.190	.01242	.00167	.00038	.74568
	GRADIENT	.00065	.00009	.00001	-.01779

AMES3.5-168 OA23 B19 C7 E23 F5 M4 N8 R5 V7 W107

(098023) (17 SEP 73)

REFERENCE DATA

SREF = 2880.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6800 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
 AILRON = -10.000 SFLAP = -14.250
 SPCBRK = 55.000 RUDDER = .000

RUN NO. 41/ 0 RN/L = 1.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CX	CYN	CSL	L/D
7.320	12.154	-.01019	-.00234	-.00211	1.47417
7.320	15.308	-.00716	-.00154	-.00262	1.74291
7.320	18.550	-.00706	-.00114	-.00339	1.83537
7.320	23.170	-.00700	-.00104	-.00481	1.73850
7.320	27.160	-.00464	-.00022	-.00616	1.57728
7.320	30.856	.00390	.00112	-.00762	1.43039
7.320	34.955	.00008	.00163	-.00933	1.26582
7.320	39.067	.00017	.00171	-.01114	1.11752
7.320	43.007	.00036	.00231	-.01163	.99089
7.320	47.136	.00333	.00268	-.01174	.86912
7.320	51.256	.00555	.00333	-.01373	.75895
	GRADIENT	.00037	.00014	-.00032	-.02533

AMES3.5-168 OA23 B10 C7 E23 F5 M4 N6 R5 V7 W107

(886024) (17 SEP 73)

REFERENCE DATA

SREF = 2090.0000 SQ.FT. XMRP = 1076.4800 IN.
 LREF = 474.8000 IN. YMRP = .0000 IN.
 BREF = 936.6400 IN. ZMRP = 400.0000 IN.
 SCALE = .0100 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AILRON = -10.000 BOFLAP = -14.250
 SPOBRK = 55.000 RUDDER = .000

RUN NO. 42/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CSL	L/D
7.320	12.054	-.01011	-.00214	-.00175	1.40977
7.320	15.149	-.00834	-.00198	-.00160	1.72992
7.320	18.352	-.00331	-.00102	-.00178	1.82630
7.320	23.060	-.00030	-.00055	-.00221	1.73891
7.320	27.093	.00070	-.00012	-.00213	1.58382
7.320	30.705	.00181	-.00036	-.00363	1.43410
7.320	34.799	.00290	.00048	-.00465	1.27171
7.320	38.982	.00291	.00016	-.00564	1.12220
7.320	42.934	.00304	.00056	-.00658	.99297
7.320	47.034	.00492	.00084	-.00757	.87279
7.320	51.161	.00492	.00088	-.00844	.76180
	GRADIENT	.00035	.00008	-.00018	-.02487