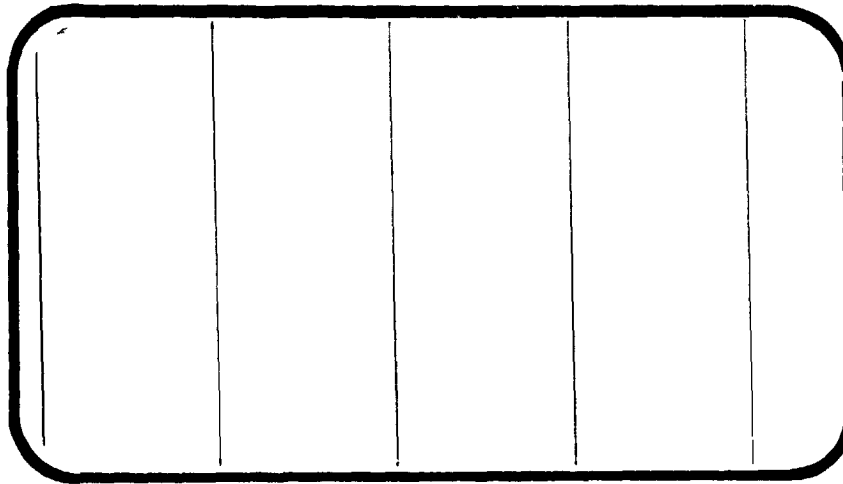




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

134119



(NASA-CR-134119) INVESTIGATIONS ON AN
0.030-SCALE SPACE SHUTTLE VEHICLE
CONFIGURATION 140A/B ORBITER MODEL IN THE
AMES RESEARCH CENTER 9 BY (Chrysler
Corp.) 743 p HC \$4.25

N74-33325

Unclass
G3/31 48765

CSSL 22B

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services



July, 1974

DMS-DR-2178
NASA-CR-134, 119

INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE
CONFIGURATION 140A/B ORBITER MODEL
IN THE AMES RESEARCH CENTER
9- BY 7-FOOT SUPERSONIC WIND TUNNEL (OA53B)

By

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Prepared under NASA Contract Number NAS9-13247

By

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

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 97-747
NASA Series Number: OA53B
Model Number: 47-0
Test Dates: 12 through 16 November 1973
Occupany Hours: 104

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INVESTIGATIONS ON AN 0.030-SCALE SPACE SHUTTLE VEHICLE

CONFIGURATION 140A/B ORBITER MODEL

IN THE AMES RESEARCH CENTER

9- BY 7-FOOT SUPERSONIC WIND TUNNEL (0A53B)

By M. E. Nichols, Rockwell International Space Division

ABSTRACT

This report documents data obtained in a wind tunnel test of an 0.030-scale Space Shuttle Vehicle Orbiter Configuration 140A/B model in the Ames Research Center 9- by 7-Foot Supersonic Wind Tunnel. This test was conducted from 12 November 1973 to 16 November 1973, in 104 test hours.

This part of test series 0A53 was conducted at Mach numbers of 1.60 and 2.00 and at Reynolds numbers ranging from $1.0 \times 10^6/\text{ft}$ to $4.0 \times 10^6/\text{ft}$.

The objective of test series 0A53 was to establish and verify longitudinal and lateral-directional aerodynamic performance, stability, and control characteristics for the Configuration 140A/B SSV Orbiter. Reynolds number studies were performed on certain nominal control-setting configurations, and examinations were made of the incremental effects of an alternate wing leading-edge configuration and of a sealed elevon-split construction.

Six-component force and moment data, base and cavity pressures, body-fairing elevon, speedbrake, and rudder hinge moments, and vertical tail forces and moments were measured for the Orbiter.

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- (A) CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT, L/D, XCP/L, versus ALPHA
CN versus CLMFWD
CL versus CD
- (B) CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT, L/D, XCP/L versus ALPHA
CN versus CLMFWD
CL versus CD
DCL, DCD, DCA, DCAF, DCAB, DCN, DCMFWD, DCMAFT versus ALPHA
- (C) CY, CYN, CBL versus BETA
- (D) CYBETA, CYNBET, CBLBET versus ALPHA

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- (K) CHR, CHUL, CHLL, CHUR, CHLR versus BETA
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- (N) CYV, CYNV versus RUDDER
- (O) CYV, CYNV versus BETA
- (P) CHET, CHEI, CHEO versus RUDDER
- (Q) CHBF versus RUDDER
- (R) CHR, CHUL, CHLL, CHUR, CHLR versus AILRON
- (S) CHBF versus AILRON
- (T) CHET, CHEI, CHEO versus ELEV-L
- (U) CHEI, CHEO versus ALPHA
- (V) CHUL, CHLL, CHUR, CHLR versus BETA
- (W) DCY/DA, DCYNDA, DCBLDA, DCLMDA versus ALPHA

NOMENCLATURE

Symbol	SADSAC Symbol	Definition
	Body Axis	
C_N	CN	normal-force coefficient
C_A	CA	axial-force coefficient
C_{A_F}	CAF	forebody axial-force coefficient
C_m	CLM	pitching-moment coefficient
C_Y	CY	side-force coefficient
C_n	CYN	yawing-moment coefficient
C_l	CBL	rolling-moment coefficient
	Stability Axis (Coefficients utilizing C_A)	
C_L	CL	lift coefficient
C_D	CD	drag coefficient
C_m	CLM	pitching-moment coefficient
C_{n_s}	CLN	stability yawing-moment coefficient
C_{l_s}	CSL	stability rolling-moment coefficient
	Stability Axis (Coefficients utilizing C_{A_F})	
C_{L_F}	CLF	forebody lift coefficient
C_{D_F}	CDF	forebody drag coefficient

C_{mF}	CMF	forebody pitching-moment coefficient
L/D	L/D	lift-to-drag ratio
L_F/D_F	LF/DF	forebody lift-to-drag ratio
X_{CP}/l_B	XCP/L	longitudinal center of pressure location of total vehicle, percent reference body length
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
M	MACH	free-stream Mach number
P_o	PO	free-stream static pressure, psia
P_T	PT	total pressure, psia
q	Q	free-stream dynamic pressure ($\rho \epsilon F$)
RN/ft	RN/L	unit Reynolds number, per foot
TTAV	TTAV	average total temperature, deg. R

Vertical Tail Data

Body Axis

C_{N_V}	CNV	vertical normal-force coefficient
C_{A_V}	CAV	vertical axial-force coefficient
C_{m_V}	CMV	vertical pitching-moment coefficient
C_{Y_V}	CYV	vertical side-force coefficient
C_{n_V}	CYNV	vertical yawing-moment coefficient
C_{l_V}	CBLV	vertical rolling-moment coefficient

Pressure Coefficients and Pressure Corrections

$C_{P_{B_i}}$	CPBI	pressure coefficient for individual base pressures
C_{P_B}	CPB	average base pressure coefficient
$C_{P_{SC_j}}$	CPSCJ	pressure coefficient for individual sting-cavity pressures
$C_{P_{SC}}$	CPSC	average sting-cavity pressure coefficient
C_{A_B}	CAB	base axial-force coefficient
$C_{A_{SC}}$	CASC	sting-cavity axial-force coefficient

Hinge Moments

C_{H_R}	CHR	rudder hinge-moment coefficient
$C_{H_{E_I}}$	CHEI	inboard elevon hinge-moment coefficient
$C_{H_{E_O}}$	CHEO	outboard elevon hinge-moment coefficient
$C_{H_{E_T}}$	CHET	total elevon hinge-moment coefficient
$C_{H_{UL}}$	CHUL	speedbrake hinge-moment coefficient (upper left)
$C_{H_{LL}}$	CHLL	speedbrake hinge-moment coefficient (lower left)
$C_{H_{UR}}$	CHUR	speedbrake hinge-moment coefficient (upper right)
$C_{H_{LR}}$	CHLR	speedbrake hinge-moment coefficient (lower right)

$C_{H_{BF}}$	CHBF	bodyflap hinge-moment coefficient
$C_{H_{SB}}$	CHSB	total speedbrake hinge-moment coefficient
$C_{P_{V_1}}$	CPV1	pressure coefficient for P_{V_1}
$C_{P_{V_2}}$	CPV2	pressure coefficient for P_{V_2}
$C_{P_{V_3}}$	CPV3	pressure coefficient for P_{V_3}
$C_{P_{V_4}}$	CPV4	pressure coefficient for P_{V_4}
$C_{A_{VB}}$	CAVB	vertical tail base axial-force coefficient
$\frac{X_{CPV}}{l_B}$	XCPV/L	longitudinal center-of-pressure location of vertical tail forces
$\frac{Z_{CPV}}{l_B}$	ZCPV/L	vertical center-of-pressure location of vertical tail forces
$P_{V_1}, P_{V_2}, P_{V_3}, P_{V_4}$		pressure on vertical tail at stations 1, 2, 3, 4 respectively, psia

NOMENCLATURE (Continued)
ADDITIONS TO NOMENCLATURE

C_{mFWD}	CLMFWD	pitching moment coefficient (FWD C.G.)
C_{mAFT}	CLMAFT	pitching moment coefficient (AFT C.G.)
δ_{eL}	ELEV-L	left elevon deflection
ΔC_L	DCL	incremental lift coefficient
ΔC_D	DCD	incremental drag coefficient
ΔC_A	DCA	incremental axial force coefficient
ΔC_{AF}	DCAF	incremental forebody axial force coefficient
ΔC_{AB}	DCAB	incremental base axial force coefficient
ΔC_N	DCN	incremental normal force coefficient
ΔC_{mFWD}	DCMFWD	incremental pitching moment coefficient (FWD C.G.)
ΔC_{mAFT}	DCMAFT	incremental pitching moment coefficient (AFT C.G.)
ΔC_y	DCY	incremental side force coefficient
ΔC_n	DCYN	incremental yawing moment coefficient
ΔC_r	DCBL	incremental rolling moment coefficient
$C_y \delta_{SB}$	DCY/DS	side force coefficient derivative with respect to speed brake deflection. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_n \delta_{SB}$	DCYNDS	yawing moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree

NOMENCLATURE (Continued)

$C_{l_{\delta_{SB}}}$	DCBLDS	rolling moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_{m_{\delta_{SB}}}$	DCLMDS	pitching moment coefficient derivative with respect to speed brake deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the speed brake angle of the runs; per degree.
$C_{m_{\delta_a}}$	DCLMDA	pitching moment coefficient derivative with respect to aileron deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; per degree.
$C_{m_{\delta_r}}$	DCLMDR	pitching moment coefficient derivative with respect to rudder deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the total rudder deflection of the runs; per degree.
$C_{H_{SB\delta}}$	DCHDSB	speed brake hinge moment derivative with respect to speed brake deflection. Algebraic difference of the speed brake hinge moment coefficient of two runs divided by the algebraic difference of the speed brake deflection angle of the runs; per degree.
$\Delta\alpha_a$	DA	algebraic difference of aileron deflection angle between two runs; degrees.
$\Delta\delta_e$	DE	algebraic difference of elevon deflection angle between two runs; degrees.
$\Delta\delta_r$	DR	algebraic difference of rudder deflection angle between two runs; degrees.
$\Delta\delta_{BF}$	DBF	algebraic difference of body flap deflection angle between two runs; degrees.
δ_a	AILRON	aileron, total aileron deflection angle, degrees, (left aileron - right aileron)/2.

NOMENCLATURE (Concluded)

δ_{BF}	BDFLAP	body flap, surface deflection angle; degrees.
δ_e	ELEVON	elevon, surface deflection angle; degrees.
δ_r	RUDDER	rudder, surface deflection angle; degrees.
δ_{SB}	SPDBRK	speedbrake, split rudder inclusive deflection angle between outer surfaces; degrees.

CONFIGURATIONS INVESTIGATED

The Configuration 140A/B Space Shuttle Vehicle Orbiter was the subject of the OA53 test series. An 0.030-scale Orbiter model was employed. Sealed elevon-split and alternate leading-edge investigations were carried out. Various elevon, aileron, bodyflap, speedbrake, and rudder control settings were applied.

The following nomenclature designated model components:

Component	Description
B ₂₆	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139)
C ₉	140A/B basic canopy (VL70-000140A, VL70-000143A)
F ₉	140A/B bodyflap (VL70-000140B, VL70-00200)
M ₇	OMS/RCS pods for 140A/B Orbiter
N ₂₈	OMS basic nozzles for 140A/B configuration
V ₈	Basic Orbiter vertical tail (VL70-000146A)
R ₅	Basic Orbiter rudder (VL70-000146A, VL70-000095)
W ₁₁₆	Basic 140A/B wing (VL70-000140B, VL70-000200)
E ₂₆	Basic 140A/B elevons (VL70-000200, VL70-006089, VL70-006092)
W ₂₁	Alternate leading edge wing configuration (VL70-000219, VL70-000200, VL70-006089, VL70-006092)

Reference dimensions and constants for Orbiter data were:

Symbol	Definition	Value
A _B	(see below for base areas) $\sum_{i=1}^6 A_{B_i}$	0.298472 ft ²

A_{SC}	Sting-cavity area	0.07670 ft ²
b_w	Reference wing span	28.1064 inch
\bar{c}_w	Reference MAC	14.244 inches
l_B	Reference body length (IML)	38.709 inches
S_w	Reference wing area	2.4210 ft ²
X_{CG}	Longitudinal length, nose to moment reference center	25.251 inches
Y_{CG}	Lateral length, plane of symmetry to moment reference center	0.000 inch
Z_{CG}	Vertical length, FRP to moment reference center	-0.750 inch
\bar{c}_E	Elevon chord	2.7210 inches
\bar{c}_R	Rudder chord	2.2110 inches
\bar{c}_{SB}	Speedbrake chord	2.2110 inches
\bar{c}_{BF}	Bodyflap chord	2.541 inches
S_E	Reference elevon area	0.18900 ft ²
S_R	Reference rudder area	0.090135 ft ²
S_{SB}	Reference speedbrake area	0.090135 ft ²
S_{BF}	Reference bodyflap area	0.12834 ft ²
Orbiter Base Area (ft ²)		
A_{B_1}	0.050764	
A_{B_2} (OMS)	0.087153	

	A_{B_3}	.033333
	A_{B_4}	.060069
	A_{B_5}	.028472
	A_{B_6}	.038681

TEST FACILITY DESCRIPTION

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

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

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

DATA REDUCTION

A. Data Reduction for the Orbiter

Standard ARC methods were used to compute coefficient data.

One set of body- and two sets of stability-axis data are used. The first stability-axis data set has the axial-force coefficient corrected to the base pressure, whereas the second stability-axis data set has the axial-force coefficient corrected to free-stream pressure.

The following outputs are some of those required for data presentation.

Pressure coefficient was computed for each pressure (P_{B_i}) as follows:

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

where

P_{B_i} = pressure at base orifice i

P_o = free-stream static pressure

q = free-stream dynamic pressure

Pressure coefficient was computed for each sting-cavity pressure (P_{SC_j}) as follows:

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

where

P_{SC_j} = pressure at sting-cavity orifice j

Average (area-weighted) base pressure coefficient was computed as follows:

$$C_{P_B} = \frac{P_B - P_o}{q}$$

where

$$P_B = \frac{\sum_{i=1}^6 P_{B_i} A_{B_i}}{\sum_{i=1}^6 A_{B_i}}$$

and

6 = number of base pressures

P_{B_i} = pressure at base orifice i

A_{B_i} = area assigned to base orifice i

Average (numerically averaged) sting-cavity pressure coefficient was computed as follows:

$$C_{p_{SC}} = \frac{P_{SC} - P_o}{q}$$

where

$$P_{SC} = \frac{\sum_{j=1}^2 P_{SC_j}}{2}$$

and

2 = number of sting-cavity pressures

P_{SC_j} = pressure at sting-cavity orifice j

Base axial-force coefficient was computed as follows:

$$C_{A_B} = \frac{-[C_{p_B} (A_B) + C_{p_{SC}} (A_{SC})]}{S_w}$$

where

A_B = area of base (total)

A_{SC} = area of sting-cavity

S_w = wing reference area

Sting-cavity axial-force coefficient was computed as follows:

$$C_{A_{SC}} = \frac{-(P_{SC} - P_B) A_{SC}}{q S_w}$$

Axial-force coefficient adjusted to the average (area-weighted) base pressure was computed as follows:

$$C_A = C_{A_U} - C_{A_{SC}}$$

where

C_{A_U} = axial-force coefficient unadjusted for base or sting-cavity pressures

Axial-force coefficient corrected to freestream static pressure (forebody axial-force coefficient) was computed as follows:

$$C_{A_F} = C_{A_U} - C_{A_B}$$

Center-of-pressure location, in percent of reference body length was computed as follows:

$$\frac{x_{CP}}{l_B} = \frac{x_{CG} - \frac{C_m \bar{c}_w}{C_N}}{l_B}$$

where

x_{CG} = center-of-gravity location aft of model nose

l_B = reference body length

Lift-to-drag ratios, based on each of the two sets of stability axis data were computed as follows:

$$\frac{L}{D} = \frac{C_L}{C_D} \text{ based on } C_A$$

$$\frac{L_F}{D_F} = \frac{C_{L_F}}{C_{D_F}}, \text{ based on } C_{A_F}$$

Rudder hinge-moment coefficient was computed as follows:

$$C_{H_R} = \frac{HM_R}{q S_R \bar{c}_R}$$

where

$$HM_R = HM_{SB_{UL}} + HM_{SB_{LL}} - HM_{SB_{UR}} - HM_{SB_{LR}}$$

Inboard-elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_I}} = \frac{HM_{E_I}}{q S_E \bar{c}_E}$$

Outboard-elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_O}} = \frac{HM_{E_O}}{q S_E \bar{c}_E}$$

Total elevon hinge-moment coefficient was computed as follows:

$$C_{H_{E_T}} = C_{H_{E_I}} + C_{H_{E_O}}$$

Speedbrake hinge-moment coefficient was computed as follows:

$$C_{H_{SB_k}} = \frac{HM_{SB_k}}{q S_{SB} \bar{c}_{SB}}$$

where k = two upper and two lower speedbrake panels

Bodyflap hinge-moment coefficient was computed as follows:

$$C_{H_{BF}} = \frac{HM_{BF}}{q S_{BF} \bar{c}_{BF}}$$

B. Data Reduction for Vertical Tail Instrumentation

Standard ARC methods were used to compute six-component data.

The data were reduced to coefficient form using the wing area (S_w), wing chord (\bar{c}_w), and wing span (b_w). Moments were determined about the balance center, and then transferred to the model C.G.

Pressure coefficients were computed for vertical base pressures, P_{V_1} and P_{V_2} as follows:

$$C_{P_{V_{1,2}}} = \frac{P_{V_{1,2}} - P_0}{q}$$

Pressure coefficients were computed for vertical cavity pressures, P_{V_3} and P_{V_4} as follows:

$$C_{P_{V_{3,4}}} = \frac{P_{V_{3,4}} - P_0}{q}$$

Vertical tail base axial-force correction was computed as follows:

$$C_{A_{V_B}} = \frac{-[(C_{P_{V_2}} - C_{P_{V_3}}) A_{V_2} + C_{P_{V_1}} A_{V_1}]}{S_w}$$

Vertical tail axial-force coefficient corrected to freestream pressure was computed as follows:

$$C_{A_V} = C_{A_{V_U}} - C_{A_{V_B}}$$

where

$C_{A_{V_U}}$ = vertical tail axial-force coefficient unadjusted for base pressures

Center-of-pressure locations on the vertical tail were computed as follows:

$$x_{CP_V} = x_{CG} - \frac{C_{n_{V\text{BODY}}} b_w}{C_{Y_{V\text{BODY}}}}$$

(where "BODY" means "body-axis")

$$z_{CP_V} = z_{CG} + \frac{C_{l_{V\text{BODY}}} b_w}{C_{Y_{V\text{BODY}}}}$$

Pressure coefficient for each extra "monitoring" pressure (P_{X_i}) was computed as follows:

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

Reference dimensions and constants for the vertical tail were:

<u>Symbol</u>	<u>Comments</u>	<u>Value</u>
A_{V_1}	See figures	0.00625 ft ²
A_{V_2}	See figures	0.01326 ft ²
S_w	Given in previous section	
b_w	Given in previous section	
L_B	Given in previous section	
x_{CG}	Given in previous section	
z_{CG}	Given in previous section	

REFERENCES

1. Rockwell International Space Division Technical Report No. SD73-SH-0276: "Pretest Information for Tests of the 0.030-Scale Space Shuttle Orbiter Force Model 47-0 in the NASA/Ames 11- by 11-Foot, 9- by 7-Foot, and 8- by 7-Foot Unitary Plan Wind Tunnels (OA53A,B,C)", by M. D. Milam, E. Chee, and M. E. Nichols, 19 October 1973.
2. Rockwell International Space Division Internal Letter No. SAS/WT0/73-205: "Model Design Requirements for the 0.030-Scale Pressure/Loads Model 47-OTS," 20 June 1973.
3. NASA-CR-134,114 (DMS-DR-2128, Vol. I); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center 11-by 11-foot Transonic Wind Tunnel (OA53A)," by M. D. Milam, and M. E. Nichols, July 1974.
4. NASA-CR-134, 115 (DMS-DR-2128, Vol. II); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center 11-by 11-foot Transonic Wind Tunnel (OA53A)," by M. D. Milam, E. Chee, and M. E. Nichols, July 1974.
5. NASA-CR-134, 120 (DMS-DR-2185); "Investigations on an 0.030-Scale Space Shuttle Vehicle Configuration 140A/B Orbiter Model in the Ames Research Center Unitary Plan 8-by 7-foot Supersonic Wind Tunnel (OA53C)," by M. D. Milam, E. Chee, and M. E. Nichols, July 1974.

TABLE 1.

TEST : 0A53B		DATE : 11-12-73	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
1.6	1.25	1.93	120
1.6	2.75	4.37	120
1.6	4.00	6.22	120
			120
2.0	1.00	1.53	120
2.0	2.75	4.19	120
2.0	4.00	6.10	120
BALANCE UTILIZED: <u>2.5" Mk XX</u>			
	CAPACITY:	ACCURACY	COEFFICIENT TOLERANCE:
NF	<u>3000 lb</u>	_____	_____
NA	<u>3000 lb</u>	_____	_____
SF	<u>1500 lb</u>	_____	_____
SA	<u>1500 lb</u>	_____	_____
R	<u>4000 in-lb</u>	_____	_____
X	<u>600 lb</u>	_____	_____
COMMENTS:			

TABLE II

TEST: 97-747-1 Φ A53B		DATA SET RUN NUMBER COLLATION SUMMARY								DATE: 16 NOV 1973																													
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES					MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)	TEST RUN NUMBERS																													
		A	B	DR	SBR	DR	RM	0.6		0.8	0.9	1.05	1.2	1.6	2.0	2.5	3.0	3.5																					
REK 001	BCMFVIV	A	0	0	22.5	55	0	2.75	0.6																														
02		A	0	-10	-11.7										1	2																							
03		B	0	115											3	4																							
04				5	5										10	9																							
05				5	15										6	5																							
06				0	15										8	7																							
07				15	16.3						3.98				12	11																							
08											2.75				14	13																							
09											1.40				18	17																							
10											2.75				19	20																							
11															22	21																							
12															27	23																							
13															28	24																							
14															29	25																							
15															30	26																							
16															36	35																							
17															33	34																							
18															32	31																							
															37	38																							

NOTE: FOR COEFFICIENTS RECORDED SEE DATASETS IN APPENDIX I

α OR β SCHEDULES
 $\alpha(A) = -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27$
 $\alpha(B) = -1.25, 0, 1.5, 3, 5, 7.5, 9, 12, 15, 18, 21, 24, 27$
 $\beta(B) = -5, -3, -1, 0, 1, 3, 5, 7, 9$

COEFFICIENTS
 $BCMFV_1V = B_{26}C_9M_7F_9W_{116}V_2R_5E_{26}N_{28}$
 $BCMFV_2V = B_{26}C_9M_7F_9W_{121}V_8R_5E_{26}N_{28}$

TABLE II - Continued

TEST: 97-747-1 Φ A53B		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 16 NOV 1973													
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		$P_{H/L}$	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																				
		α	β		0.6	0.8	0.9	1.05	1.2	1.6	2.0	2.5	3.0	3.5											
REK019	BCMF ₁ W ₁ V	B	0	-20	-11.7	55	0	2.75					42	34											
20				-20				4.0					41	40											
21				C -20				2.75					43	44											
22				D -40									46	45											
23				-40									48	47											
24				0			25						56	49											
25				0	B								55	50											
26				10									54	51											
27				20									53	52											
28	BCMF ₂ W ₂ Y	B	0	0	55								58	57											
29	BCMF ₁ W ₁ Y	0	B		-11.7		-10						62	59											
30				10									63	60											
31				20									64	61											
32				0				-25					68	65											
33				10									69	66											
34				20									70	67											
35				0									76	71											
36				10									75	72											

COEFFICIENTS

α OR β
SCHEDULES

TABLE II - Concluded

TEST: 97-747-1 0A53B		DATA SET RUN NUMBER COLLATION SUMMARY						DATE 16 NOV 1973															
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		M/N/L	MACH NUMBERS (OF ALTERNATE INDEPENDENT VARIABLE)																
		α	β	USR	SR		0.6	0.8	0.9	1.05	1.2	1.6	2.0	2.5	3.0	3.5							
REK037	BCMFVIV	20	B	0	-11.7	25	-10	2.75							74	73							
38		B	0			85	0								77	81							
39		0	B												78	82							
40		10													79	83							
41		20													80	84							
42		B	0		15	5	55								85	86							
43					15	-15									88	89							
44					5	-25									91	90							
45					-15										93	92							
46					-25										94	99							
47		0	B		0		85	-10							95	98							
48		10													96	97							
49	SEALED FLEV	B	0		15	16.3	55	0							100	101							
50	SEALED FLEV	B	0		0	16.3	55	0							102	103							

COEFFICIENTS

α OR β SCHEDULES

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B26

GENERAL DESCRIPTION Orbiter fuselage configuration 140A, B

NOTE: B26 identical to B24 except underside of fuselage refaired to accept W116.

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000139, VL70-000140A, VL70-000140B, VL70-000143A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (Body Fwd Sta $X_0=235$) - In.	<u>1293.3</u>	<u>38.799 (OML)</u>
Max Width (@ $X_0 = 1520$) - In.	<u>262.0</u>	<u>7.860</u>
Max Depth (@ $X_0 = 1464$) - In.	<u>250.0</u>	<u>7.500</u>
Fineness Ratio	<u>0.26357</u>	<u>0.26357</u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u>340.88462</u>	<u>0.30679</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 140 A/B orbiter fuselage canopy

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140A, VL70-000143A

DIMENSIONS	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643$ to 578)-In.	<u>143.357</u>	<u>4.30071</u>
Max Width ($@ X_0 = 513.127$)	<u>152.412</u>	<u>4.57236</u>
Max Depth ($@ X_0 = 485.0$)	<u>25.000</u>	<u>0.75000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT BODY FLAP - F₃

GENERAL DESCRIPTION Configuration 140 A/B body flap

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000140B, VL70-000200

DIMENSIONS	FULL SCALE	MODEL SCALE
Length - In.	<u>84.7</u>	<u>2.541</u>
Max Width - In.	<u>262.308</u>	<u>7.86924</u>
Max Depth - In.	<u>24.000</u>	<u>0.69000</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>158.85350</u>	<u>0.14297</u>
Wetted	<u> </u>	<u> </u>
Base	<u>41.89642</u>	<u>0.03771</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT OMS PODS - M₇
 GENERAL DESCRIPTION Configuration 140 A/B OMS Pods

 MODEL SCALE: 0.030

 DRAWING NUMBER VL70-000140A, VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta. $X_0 = 1233.0$ (In.))	<u>327.000</u>	<u>9.810</u>
Max Width (@ $X_0 = 1450.0$) - In.	<u>94.5</u>	<u>2.8350</u>
Max Depth (@ $X_0 = 1493.0$) - In.	<u>109.000</u>	<u>3.270</u>
Fineness Ratio	_____	_____
Area	_____	_____
Max. Cross-Sectional	_____	_____
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: NOZZLES - N₂₈

GENERAL DESCRIPTION: Configuration 140 A/B OMS

MODEL SCALE: 0.030

DRAWING NO.: VL70-000140A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Gimbal Origin		
Fuselage Sta. - In.		
X	<u>1518</u>	<u>45.54</u>
Y	<u>+ 88.0</u>	<u>2.64</u>
Z	<u>492.0</u>	<u>14.76</u>
Null Position		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Gimbal Range		
Pitch		
Outboard	<u>+ 8°</u>	<u>+ 8°</u>
Yaw		
Outboard	<u>13°17'</u>	<u>13°17'</u>
Inboard	<u>2°30'</u>	<u>2°30'</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V8

GENERAL DESCRIPTION: Configuration 140 A/B vertical tail.

NOTE: Similar to V5 with radius on T.E. upper corner and L.E. lower corner where vertical meets fuselage.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A, VL70-000146A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.37193</u>
Span (Theo) - In.	<u>315.727</u>	<u>9.46160</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.40398</u>	<u>0.40399</u>
Sweep-Back Angles - Degrees		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>25.947</u>	<u>25.947</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>8.05500</u>
Tip (Theo) WP	<u>108.470</u>	<u>3.25410</u>
MAC	<u>199.80756</u>	<u>5.99423</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>43.9050</u>
W.P. of .25 MAC	<u>635.522</u>	<u>19.06566</u>
B.L. of .25 MAC		
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius (Min.) - In.	<u>2.00</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.01185</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: 140 A/B configuration per Rockwell Lines
VL70-000095.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000095, VL70-000146A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>106.38</u>	<u>0.09574</u>
Span (equivalent) - In.	<u>201.0</u>	<u>6.0300</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) Ft ³	<u>526.13</u>	<u>0.01420</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: WING-W₁₁₆

GENERAL DESCRIPTION: Configuration 140 A/B basic wing.

NOTE: Identical to W114 except airfoil thickness. Dihedral angle is
given for trailing edge of wing.

MODEL SCALE: 0.030

TEST NO. _____ DWG. NO. VL70-000145B
VL70-000100

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area (Theo.) - Ft ²		
Planform	2690.00	2.4210
Span (Theo.)-In.	936.6816	28.10045
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.00	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	- 10.250	- 10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.2429	20.67729
Tip, (Theo) B.P.	137.8486	4.13546
MAC	474.8117	14.24435
Fus. Sta. of .25 MAC	1126.721	33.80163
W.P. of .25 MAC	291.00	8.73000
B.L. of .25 MAC	187.33497	5.62005

EXPOSED DATA

Area (Theo) - Ft ²	1812.2205	1.63910
Span, (Theo) - In. BP108	736.6816	22.10045
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	579.6230	17.11869
Tip 1.00 $\frac{b}{2}$	137.851	4.13554
MAC	354.2376	10.62713
Fus. Sta. of .25 MAC	1164.237	34.92711
W.P. of .25 MAC	292.00	8.76000
B.L. of .25 MAC	239.67786	7.19034
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.12	0.12

Data for (1) of (2) Sides

Leading Edge Cuff $\frac{2}{2}$		
Planform Area Ft ²	79.13389	0.10650
Leading Edge Intersects Fus M. L. @ Sta	305.0	14.15000
Leading Edge Intersects Wing @ Sta	1084.5	30.10500

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E26

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Elevons
Data for one side.

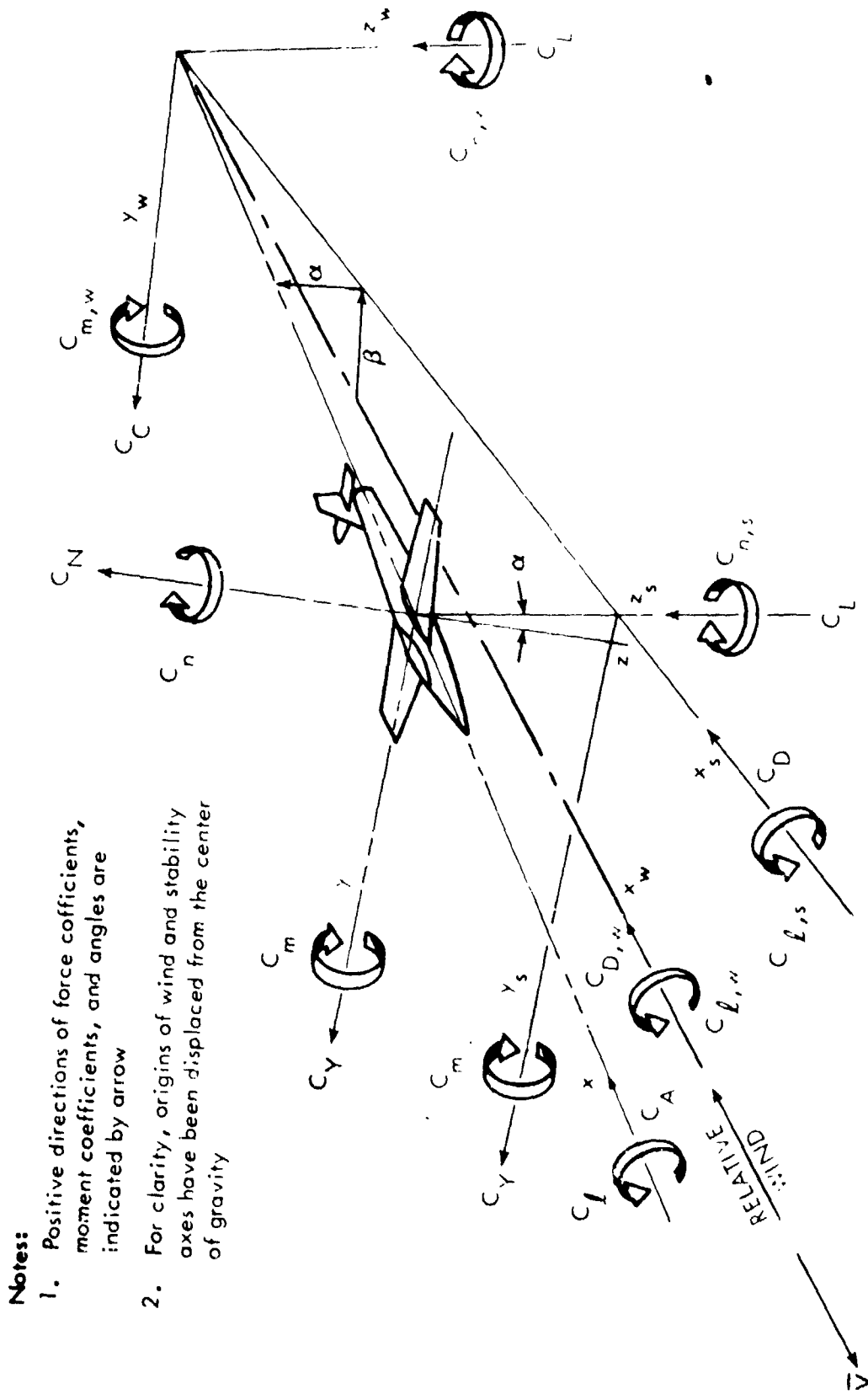
MODEL SCALE: 0.030 MODEL DRAWING: SS-A0014B, RELEASE 6

DRAWING NUMBER: VL70-000200, VL70-006089, VL70-006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.1890</u>
Span (equivalent) - In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord - In.	<u>118.004</u>	<u>3.540</u>
Outb'd equivalent chord - In.	<u>55.192</u>	<u>1.656</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1587.25</u>	<u>0.005670</u>
Mean Aerodynamic Chord - In.	<u>90.70</u>	<u>2.721</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: <u>WING-W₁₂₁</u>		
GENERAL DESCRIPTION: <u>Identical to W₁₂₁ except for modified leading edge as shown on Figure 2c.</u>		
MODEL SCALE: <u>0.030</u>		
TEST NO.	DMG. NO. <u>VL70-000200, -006089,</u> <u>-000219, -006092</u>	
DIMENSIONS:	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo.) Ft ²		
Planform	<u>2690.0</u>	<u>2.421</u>
Span (Theo In.)	<u>936.682</u>	<u>28.100</u>
Aspect Ratio	<u>2.265</u>	<u>2.265</u>
Rate of Taper	<u>1.177</u>	<u>1.177</u>
Taper Ratio	<u>0.200</u>	<u>0.200</u>
Dihedral Angle, degrees	<u>3.500</u>	<u>3.500</u>
Incidence Angle, degrees	<u>0.500</u>	<u>0.500</u>
Aerodynamic Twist, degrees	<u>+ 3.000</u>	<u>+ 3.000</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
0.25 Element Line	<u>35.209</u>	<u>35.209</u>
Chords:		
Root (Theo) B.P.O.O.	<u>689.243</u>	<u>20.677</u>
Tip, (Theo) B.P.	<u>137.849</u>	<u>4.135</u>
MAC	<u>474.812</u>	<u>14.244</u>
Fus. Sta. of .25 MAC	<u>1126.721</u>	<u>33.802</u>
W.P. of .25 MAC	<u>291.00</u>	<u>8.730</u>
B.L. of .25 MAC	<u>187.335</u>	<u>5.620</u>
EXPOSED DATA		
Area (Theo) Ft ²	<u>1812.221</u>	<u>1.631</u>
Span, (Theo) In. BP108	<u>736.682</u>	<u>22.100</u>
Aspect Ratio	<u>2.058</u>	<u>2.058</u>
Taper Ratio	<u>0.245</u>	<u>0.245</u>
Chords		
Root BP108	<u>570.623</u>	<u>1.631</u>
Tip $1.00 \frac{b}{2}$	<u>137.851</u>	<u>4.136</u>
MAC	<u>354.238</u>	<u>10.627</u>
Fus. Sta. of .25 MAC	<u>1164.227</u>	<u>35.077</u>
W.P. of .25 MAC	<u>292.0</u>	<u>8.760</u>
B.L. of .25 MAC	<u>239.678</u>	<u>7.190</u>
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $b =$	<u>0.113</u>	<u>0.113</u>
Tip $b =$	<u>0.12</u>	<u>0.12</u>
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft ²	<u>79.13389</u>	<u>0.0712</u>
Leading Edge Intersects Fus M. L. @ Sta	<u>505.0</u>	<u>15.150</u>
Leading Edge Intersects Wing @ Sta	<u>1084.5</u>	<u>32.535</u>



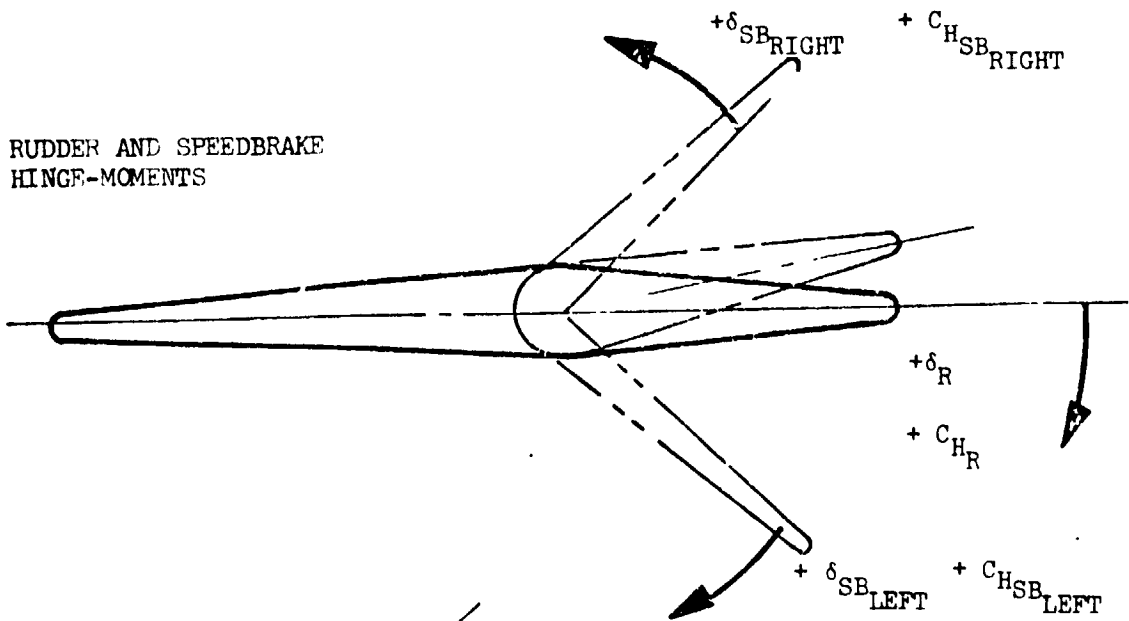
Notes:

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

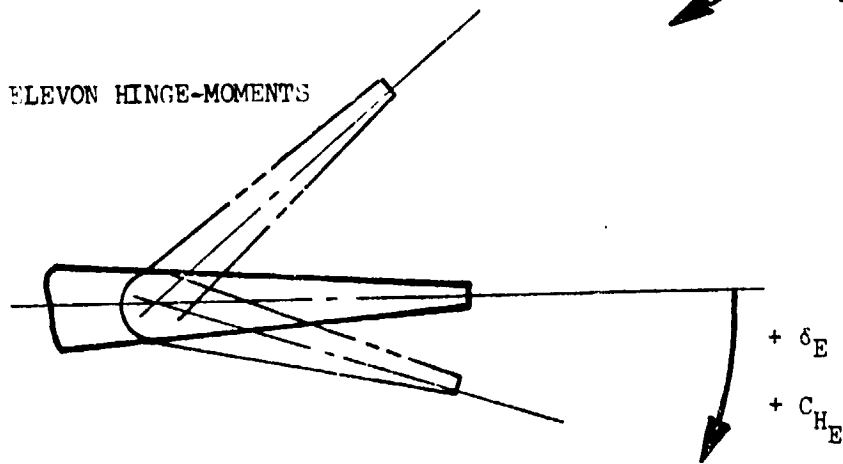
a. Body and stability axes

Figure 1. - Axis systems.

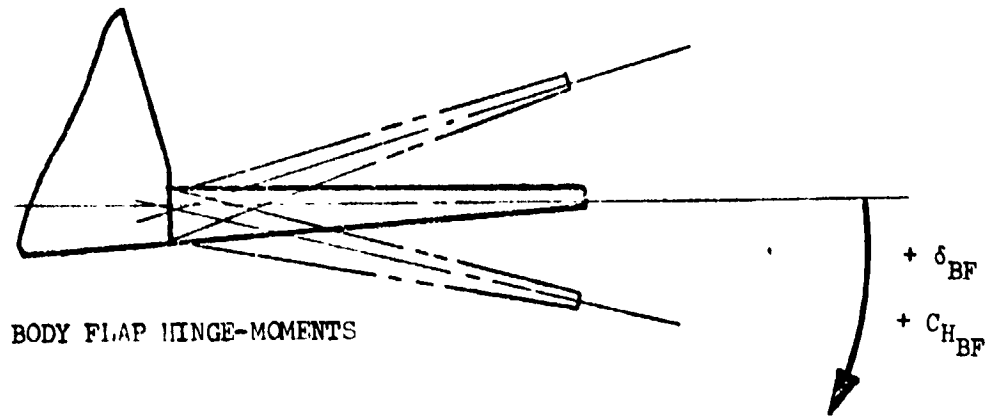
RUDDER AND SPEEDBRAKE
HINGE-MOMENTS



ELEVON HINGE-MOMENTS

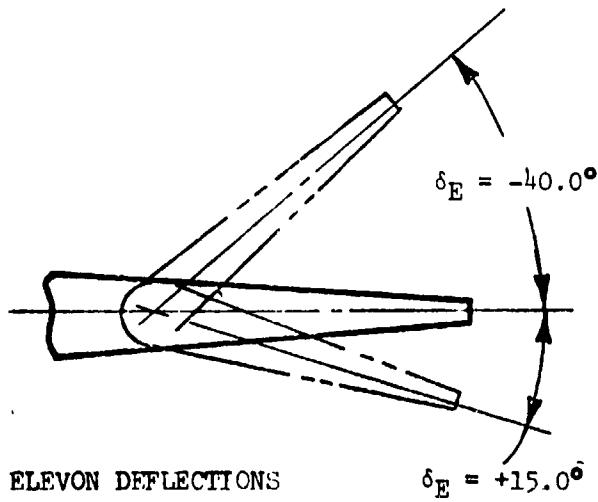
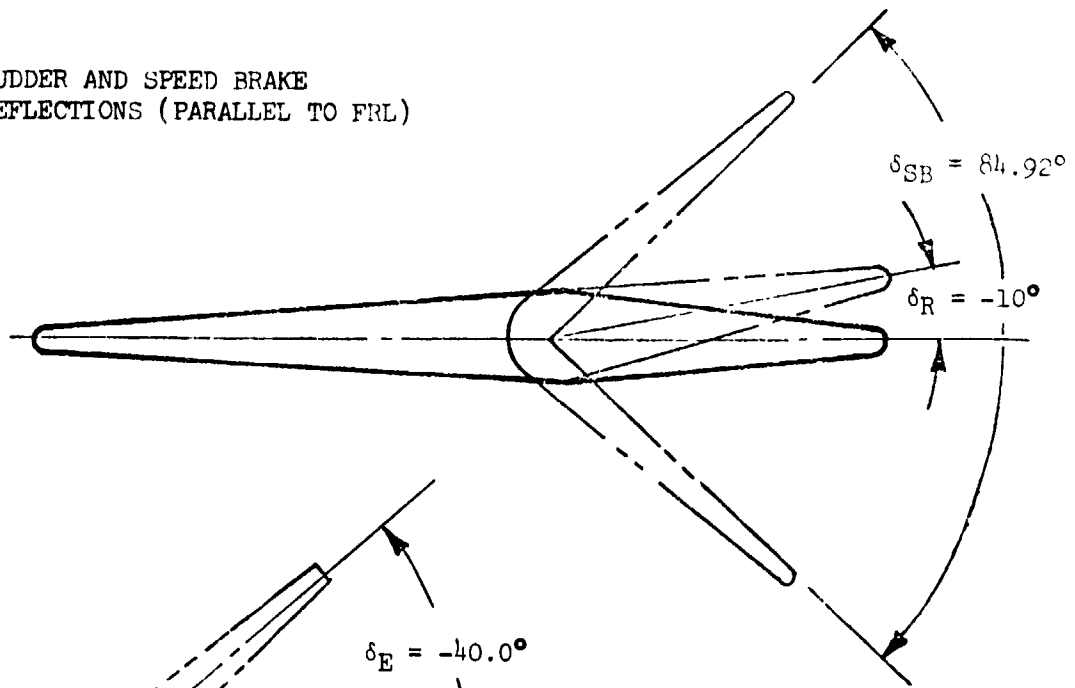


BODY FLAP HINGE-MOMENTS

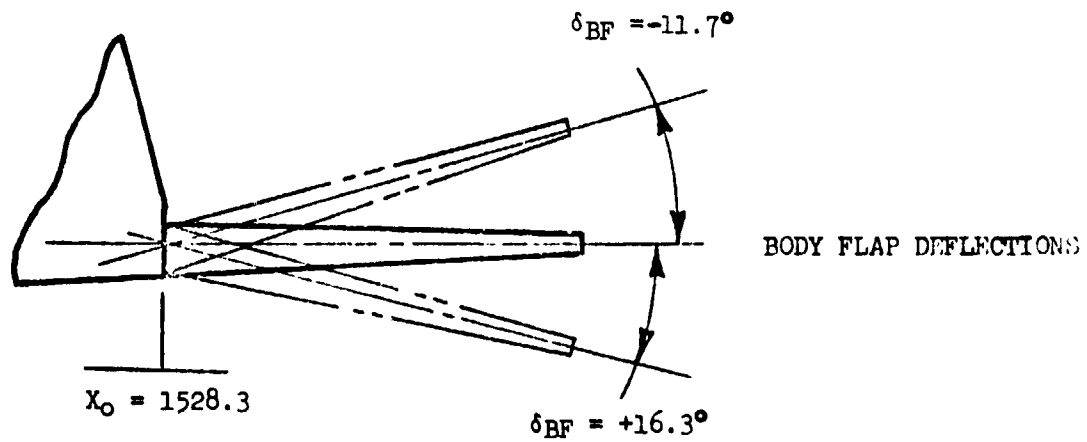


b. Definition of Hinge-Moment Directions
Figure 1. - Continued

RUDDER AND SPEED BRAKE
DEFLECTIONS (PARALLEL TO FRL)



ELEVON DEFLECTIONS



BODY FLAP DEFLECTIONS

c. Definition of Angular Measurements

Figure 1. - Concluded.

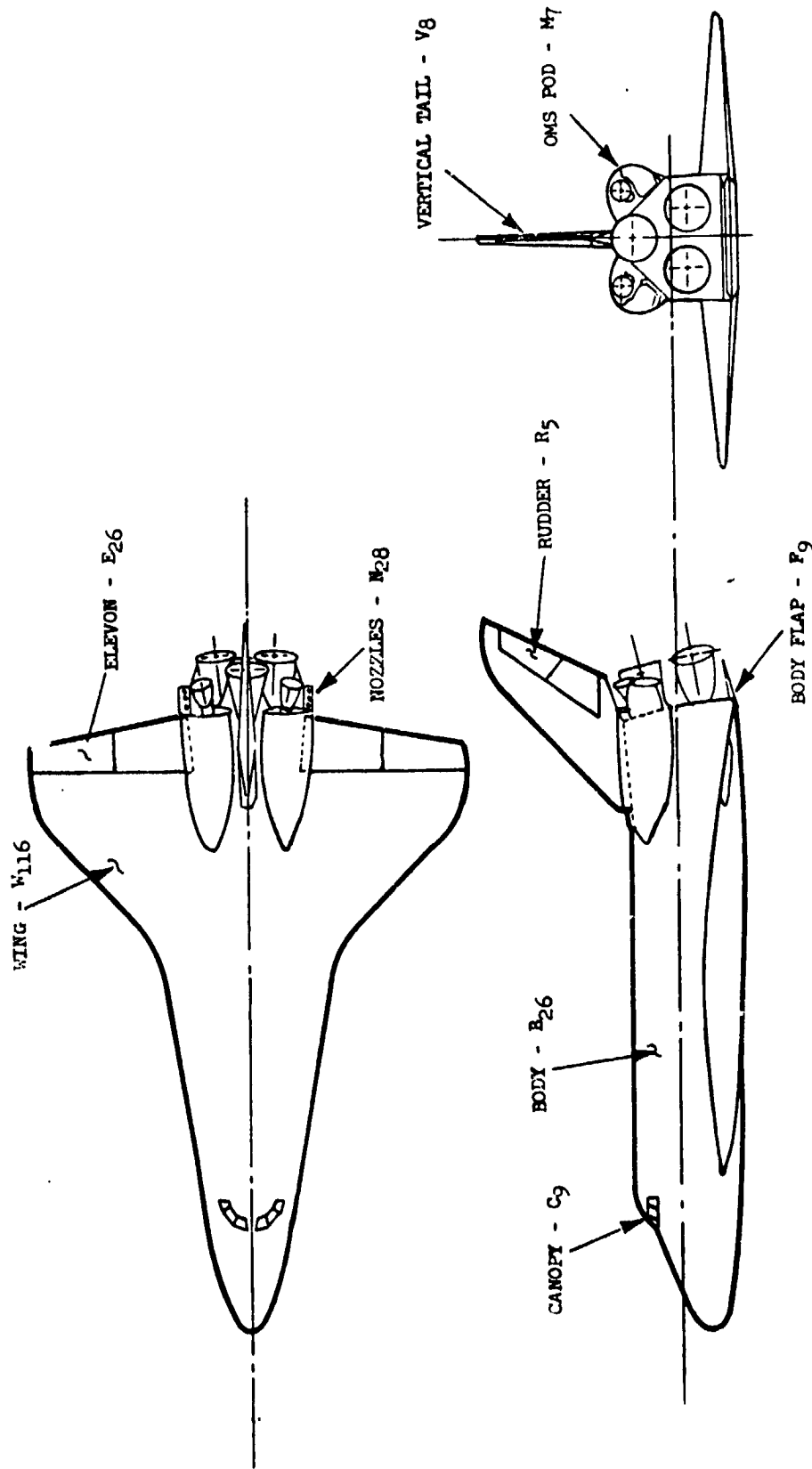


Figure 2. - Model sketches.
a. Configuration 140 A/B

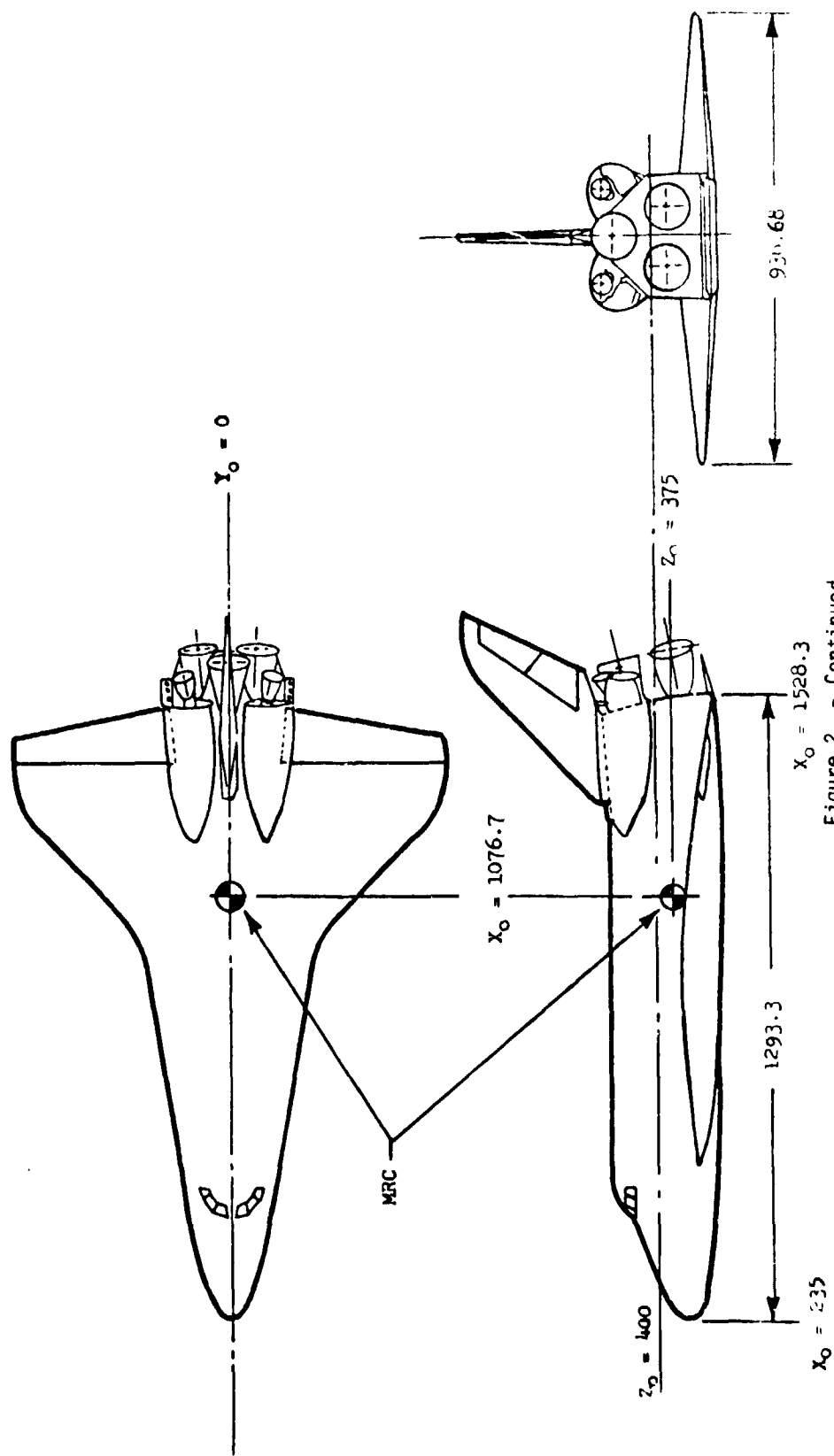


Figure 2. - Continued.
 b. Dimensional Data

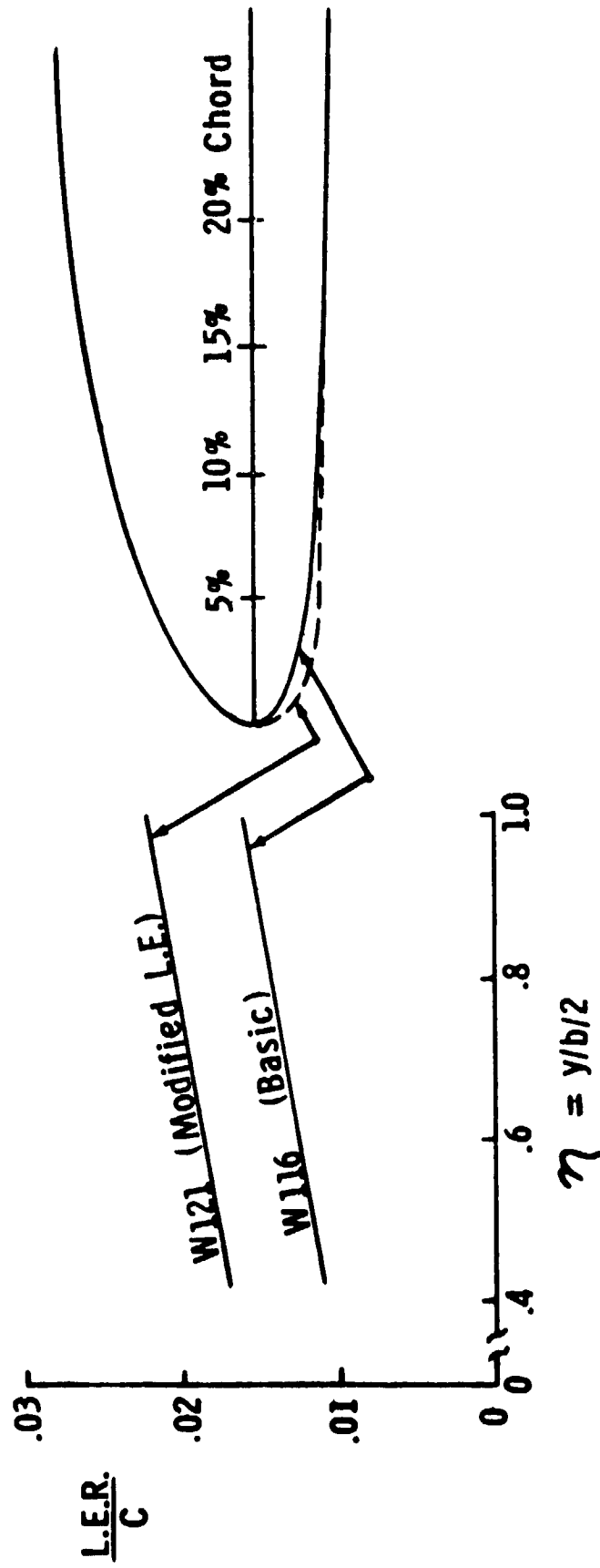
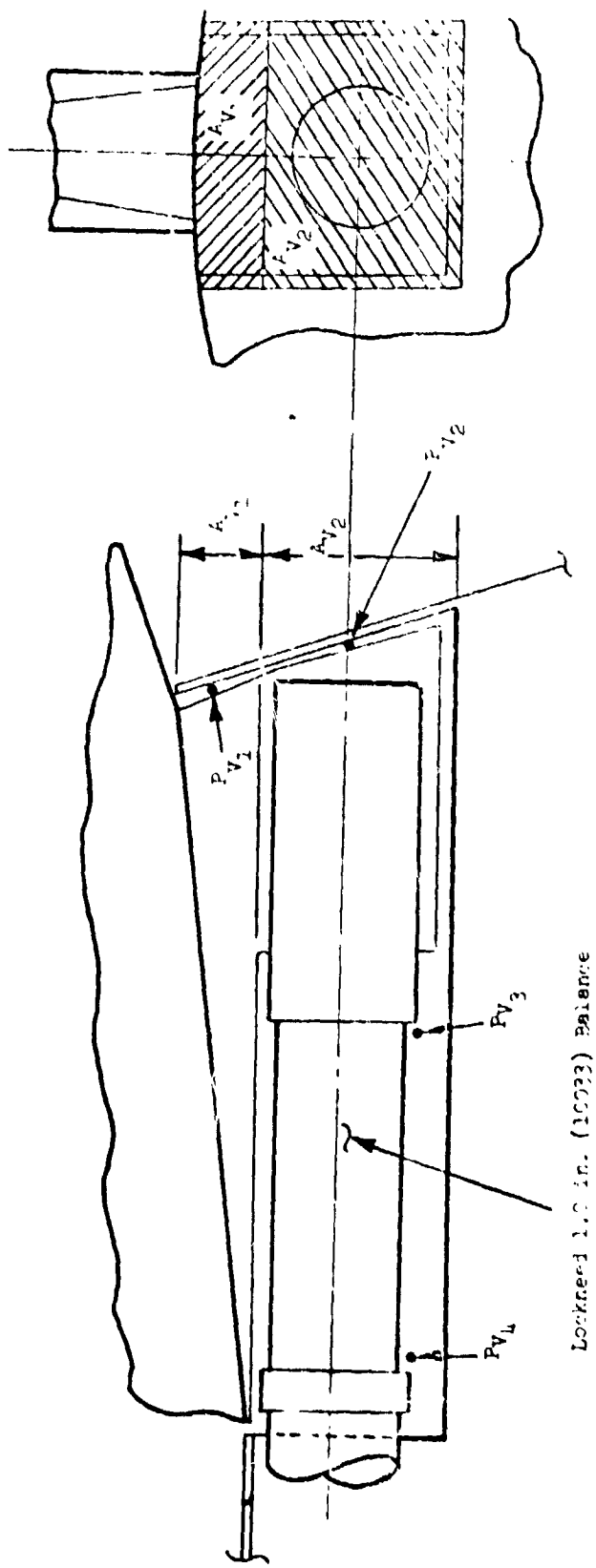


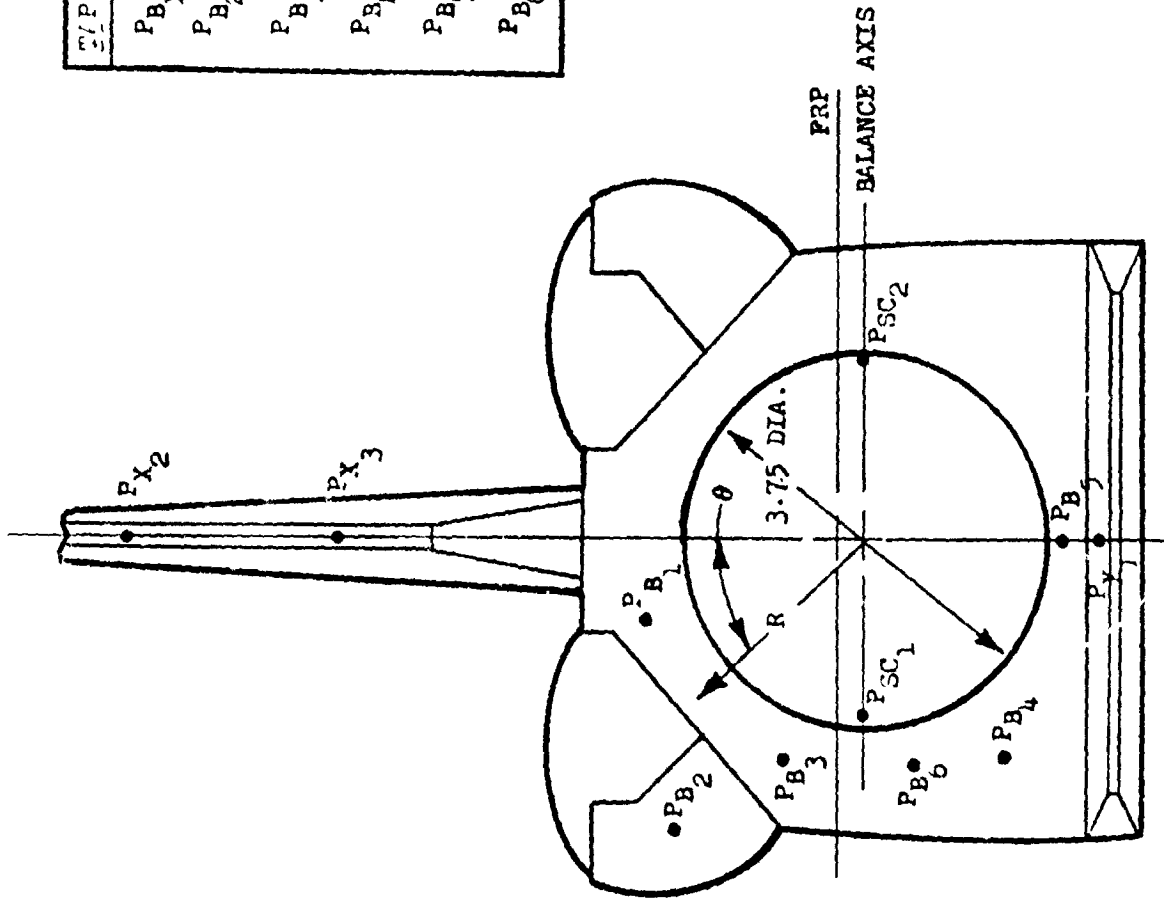
Figure 2. - Concluded.

c. Wing Leading-Edge Modifications



Lockheed 1.0 in. (10033) Balance

a. Vertical Balance Pressure Orifice Locations
 Figure 3. - Pressure instrumentation.



TYPE	θ	R
P_{B1}	23°	2.65
P_{B2}	57°	CENTROID
P_{B3}	73°	2.60
P_{B4}	125°	3.30
P_{B5}	180°	2.30
P_{B6}	99°	2.85

b. Basic Pressure Orifice Locations
Figure 3. - Concluded.

DATA FIGURES

ARC 97-747 0A53B B C M F W I V NOM. RN/L (TEK011)

SYMBOL MACH

○	1.600
□	2.002

PARAMETRIC VALUES

BETA	.000	ELEVON	.000
AILERON	.000	BOFLAP	-11.700
SPOILER	55.000	RUDDER	.000
ELEV-L	.000	ELEV-R	.000

REFERENCE INFORMATION

SREF	2.4210	SQ.FT.
LREF	14.2440	IN.
BREF	28.1004	IN.
XMRP	32.3010	IN.
YMRP	.0000	IN.
ZMRP	11.2500	IN.
SCALE	.0000	SCALE

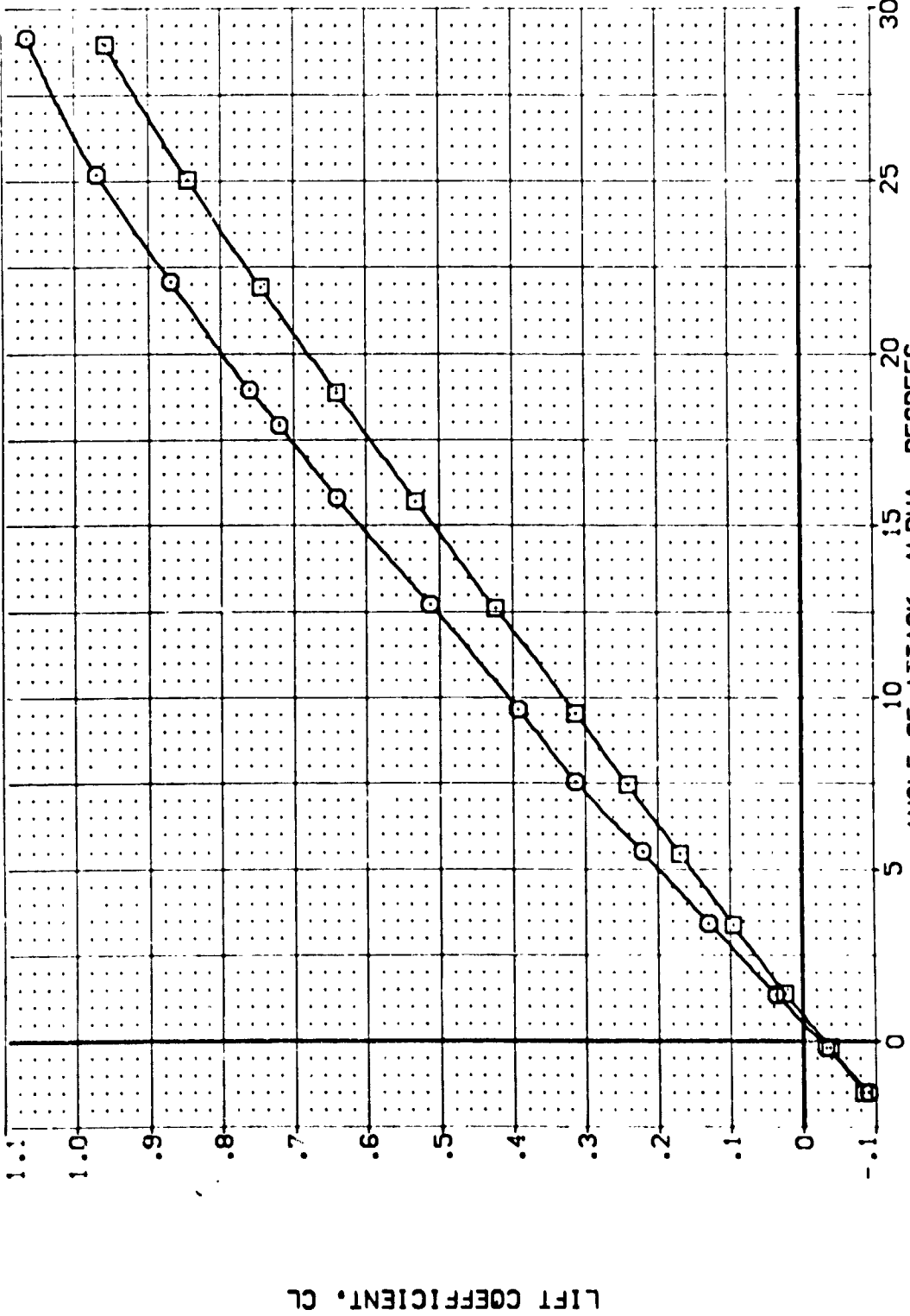


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

SYMBOL
 ○
 □

MACH 1.600
 2.002

BETA
 AILTRON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000
 .000
 55.000
 .000

ELEVON
 BOFLAP
 RUDDER
 ELEV-R

.000
 -11.700
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 XREF 29.1007 IN.
 YREF 32.3010 IN.
 ZREF 00.000 IN.
 WREF 11.2500 IN.
 SCALE .0330

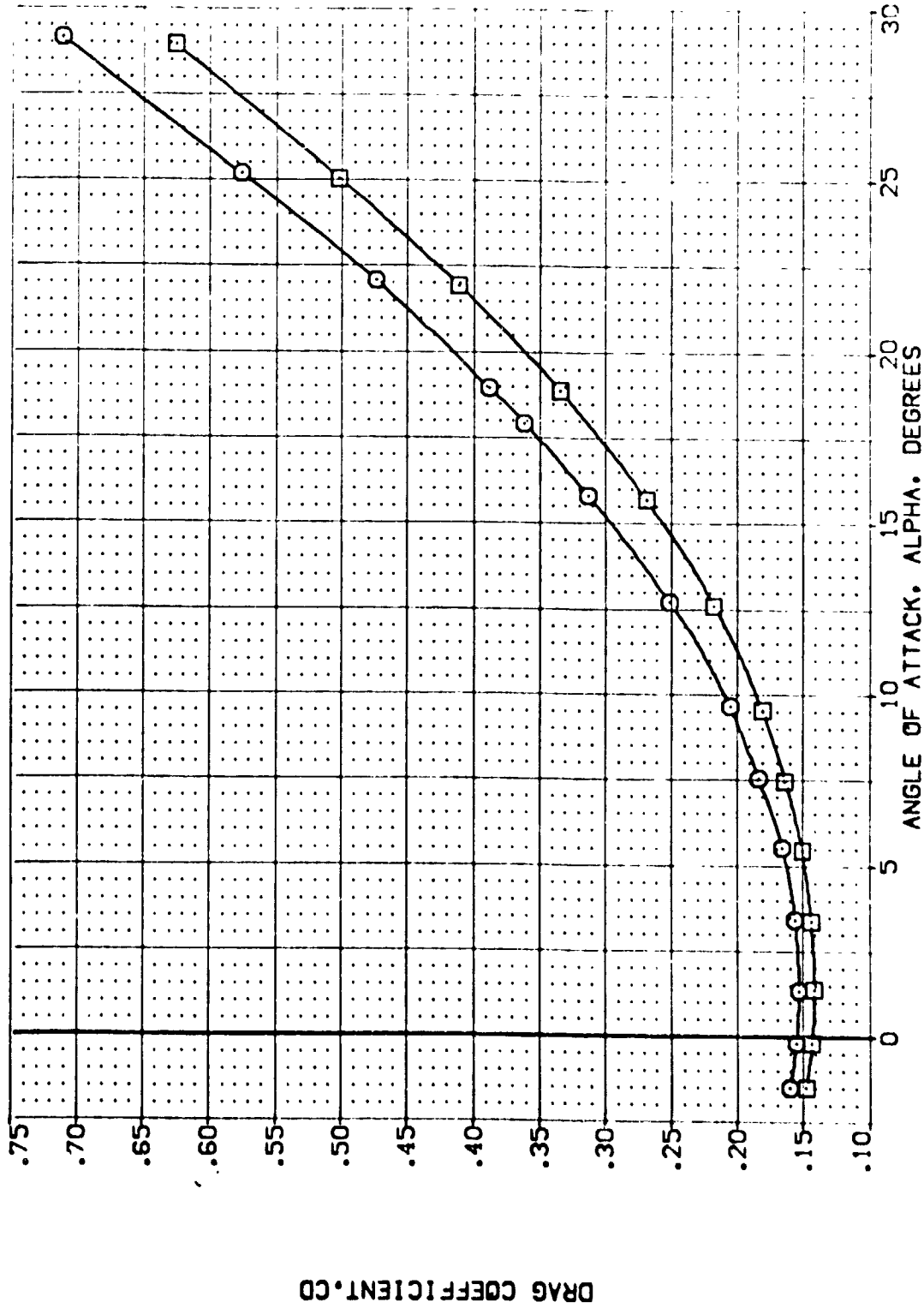


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE



ARC 97-747 0A538 B C M F W I V NOM. RN/L (TEK011)

SYMBOL	WAD	BETA	PARAMETRIC VALUES	REF	SCALE
□	1.600	.000	ELEVON .000	2.4210	SC.FT.
○	2.002	.000	ELEVON -11.700	14.2440	IN.
		.000	BD FLAP	20.1004	IN.
		56.000	RUDDER .000	32.9310	IN.
		.000	ELEV-R .000	.0000	IN.
				11.2500	IN.
				.0000	SCALE

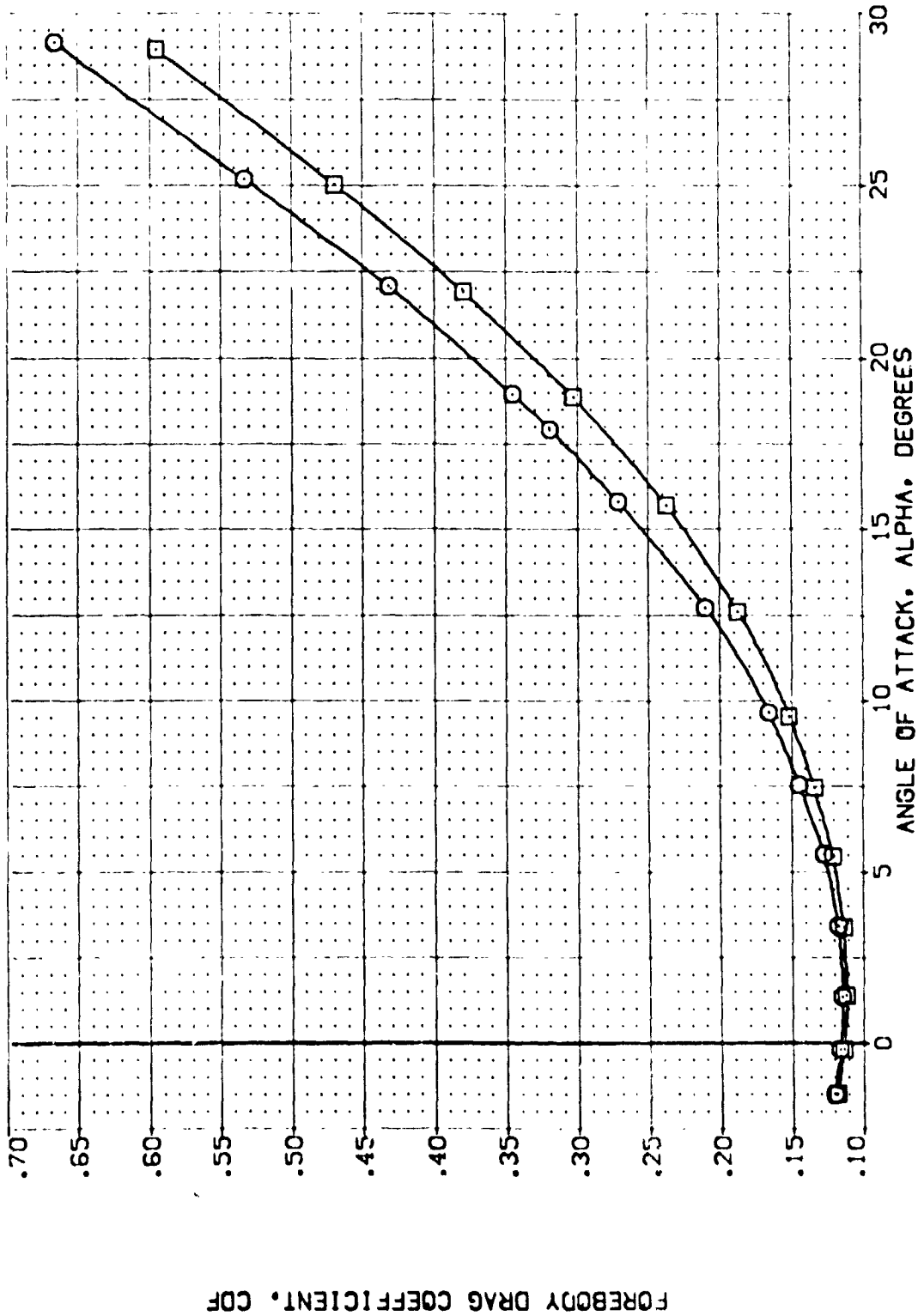


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A503 B C M F W1 V NOM. RN/L (TEK011)

SYMBOL
 ○
 □

MACH
 1.600
 2.002

BETA
 AILTRON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON .000
 .000 SOFLAP -11.700
 55.000 RUDDER .000
 .000 ELEV-R .000

REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.2440 IN.
 29.100% IN.
 32.3010 IN.
 .0000 IN.
 11.2500 IN.
 .0000 SCALE

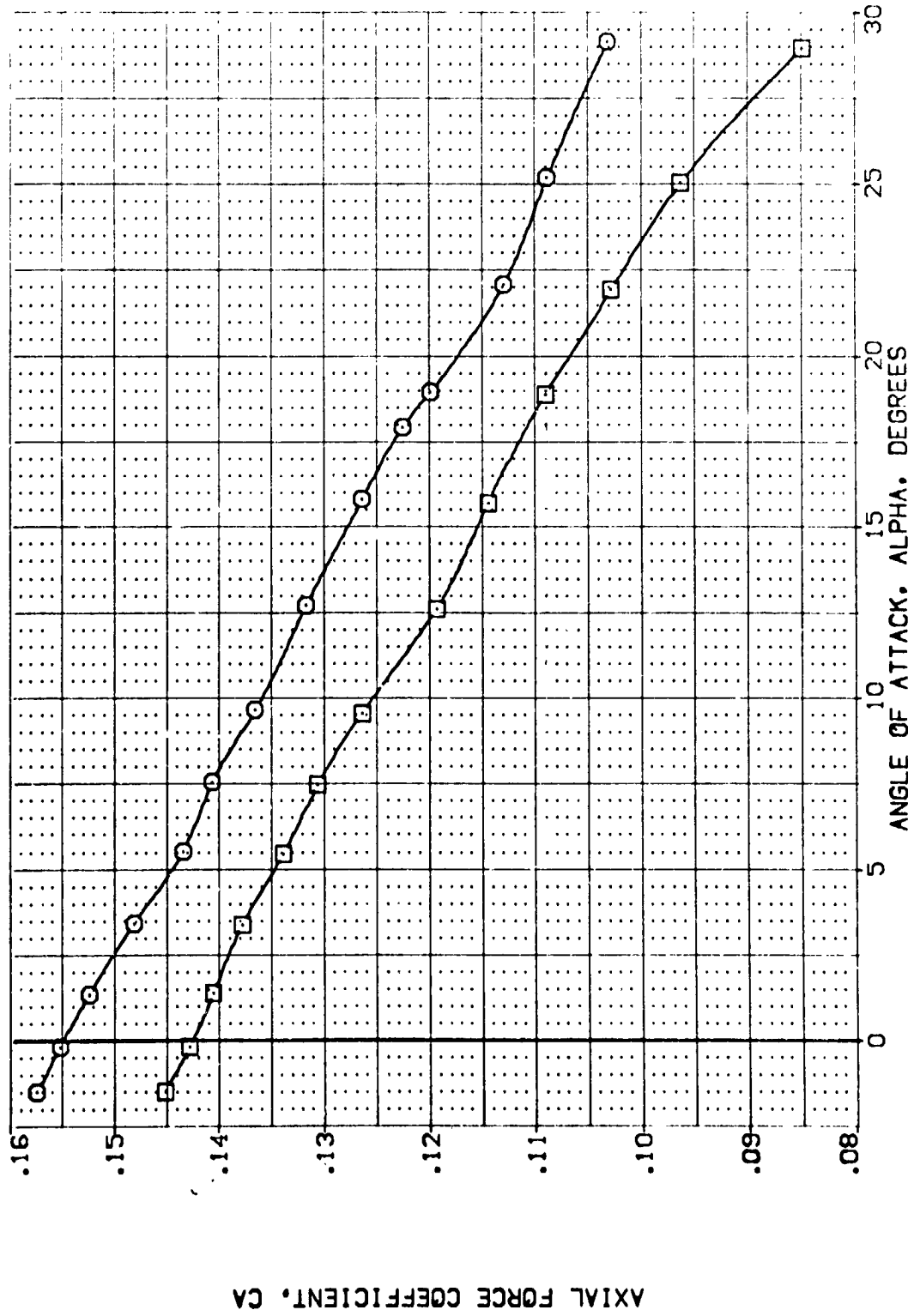


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 OA53B B C M F W I V NCM. RN/L (TEK011)

SYMBOL
 ○ □

MACH
 1.500
 2.002

PARAMETRIC VALUES
 BETA .000 ELEVON .000
 AILERON .000 BOFLAP -11.700
 SPOBRK 55.000 RUDDER .000
 ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMCP 32.5010 IN.
 YMCP .0000 IN.
 ZMCP 11.2500 IN.
 SCALE .0300

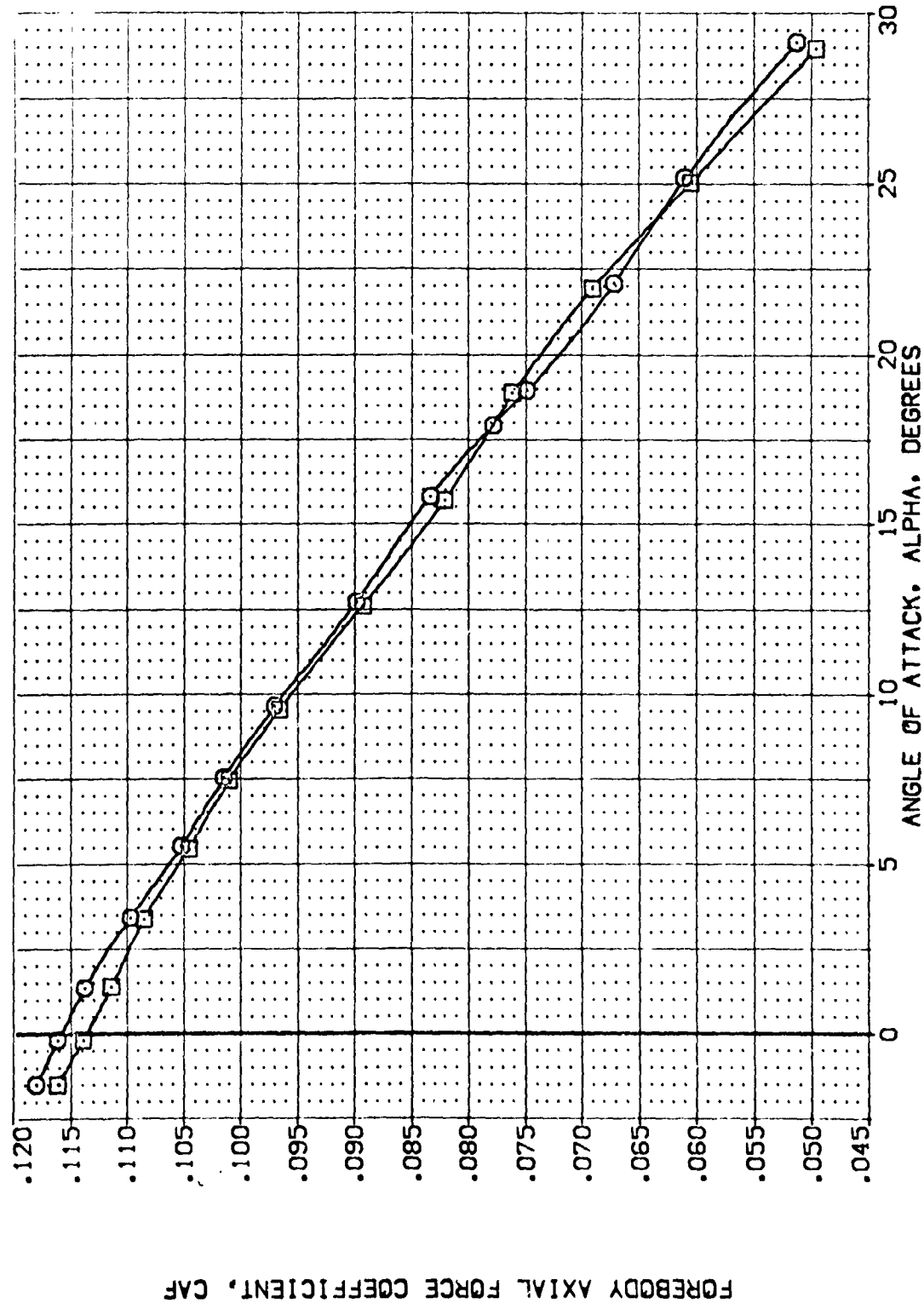


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

SYMBOL
 ○ □

MACH
 1.600
 2.002

BETA
 AILTRON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON .000
 .000 BOFLAP -11.700
 55.000 RUDDER .000
 .000 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 20.1004 IN.
 YMRP 32.3010 IN.
 ZMRP .0000 IN.
 SCALE 11.2500 IN.
 .0000 SCALE

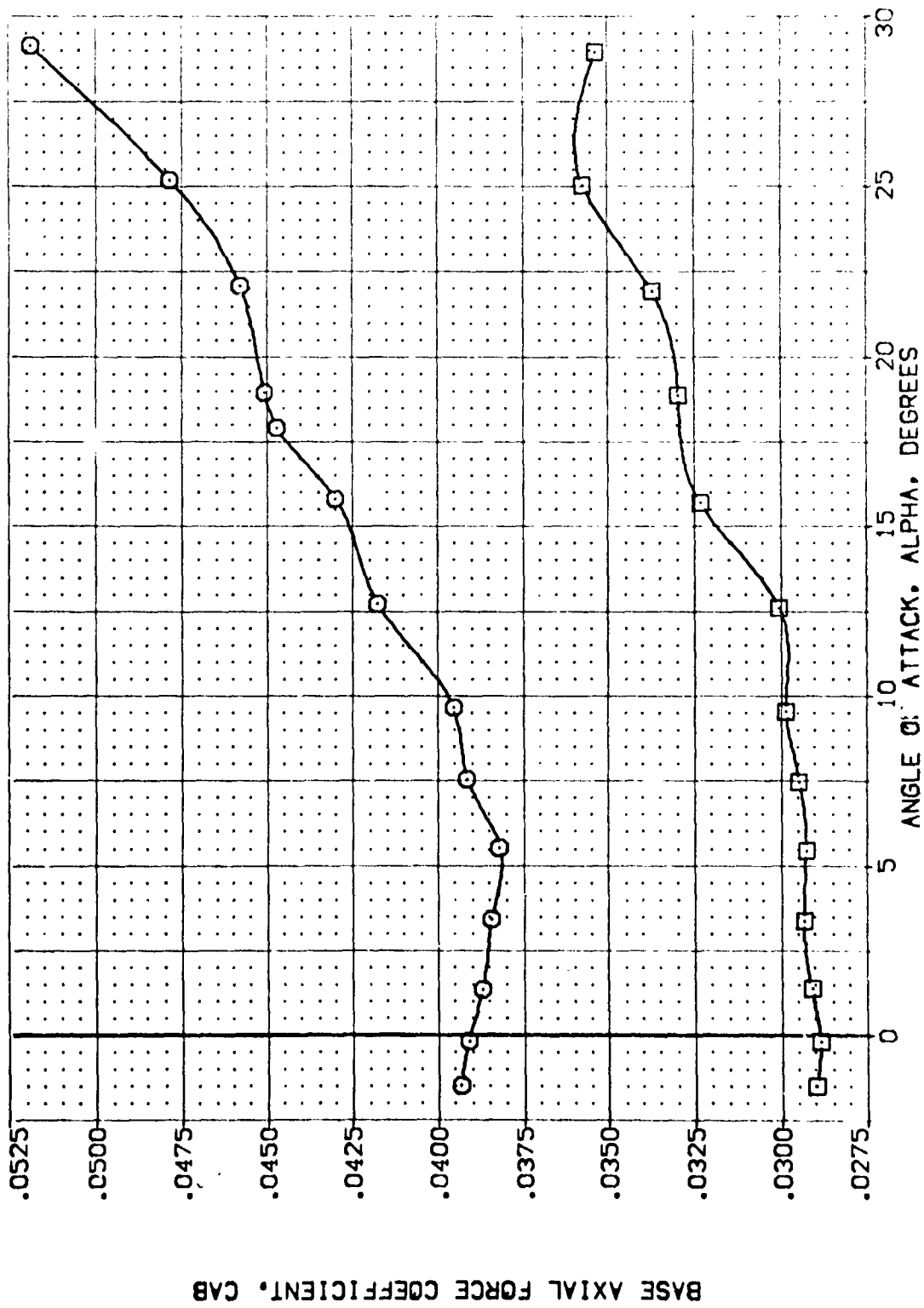


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W I V NOM. RN/L (TEK011)

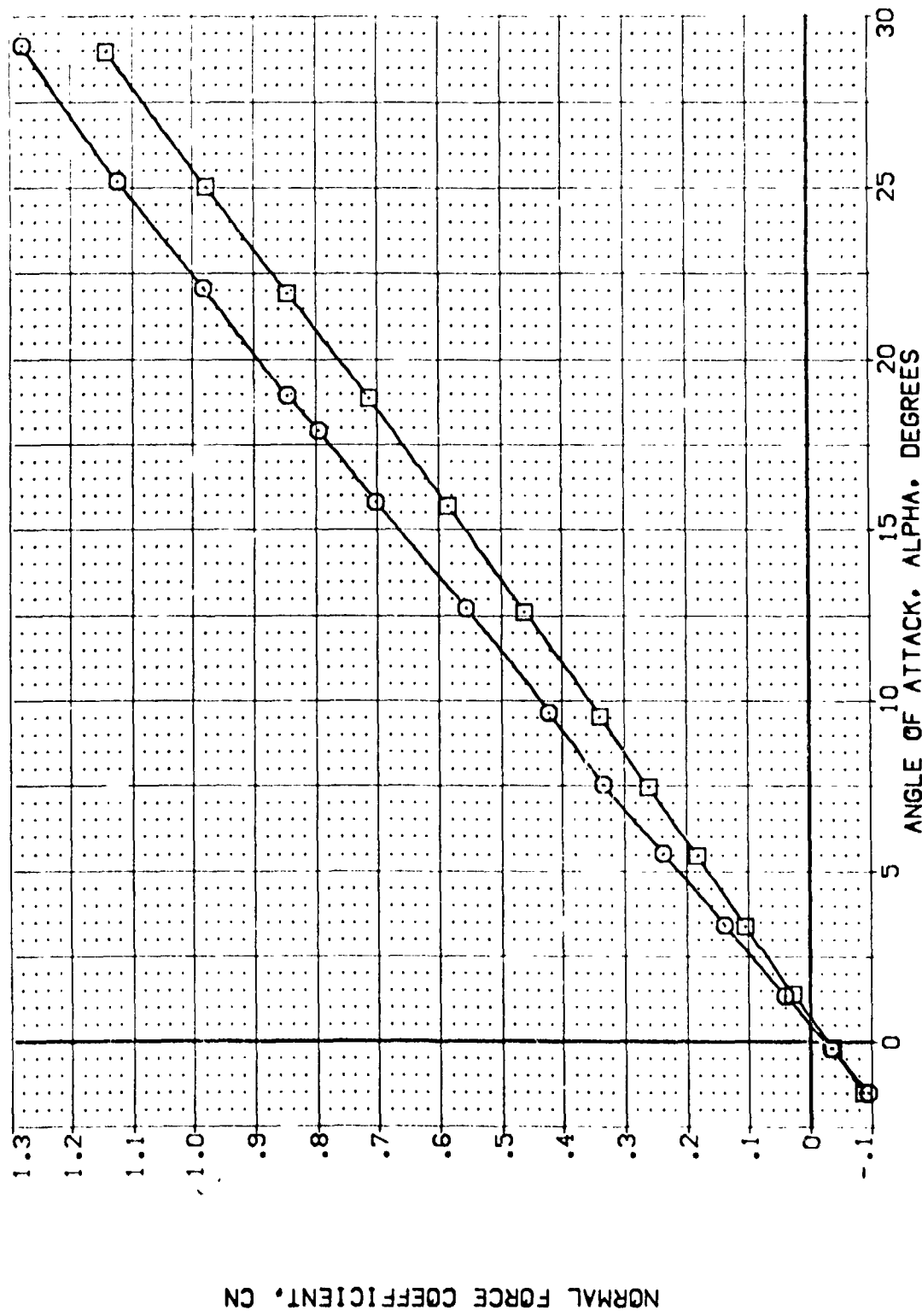
SYMBOL
 ○ □

MACH
 1.600
 2.002

BETA
 AILTRON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON
 .000 BOFLAP
 56.000 RUDDER
 .000 ELEV-R

REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.7440 IN.
 28.1004 IN.
 32.5010 IN.
 .0000 IN.
 11.2500 IN.
 .0000 SCALE



NORMAL FORCE COEFFICIENT, CN

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 OA53B B C M F W I V NOM. RN/L (TEK011)

SYMBOL



MACH

1.600
2.002

BETA

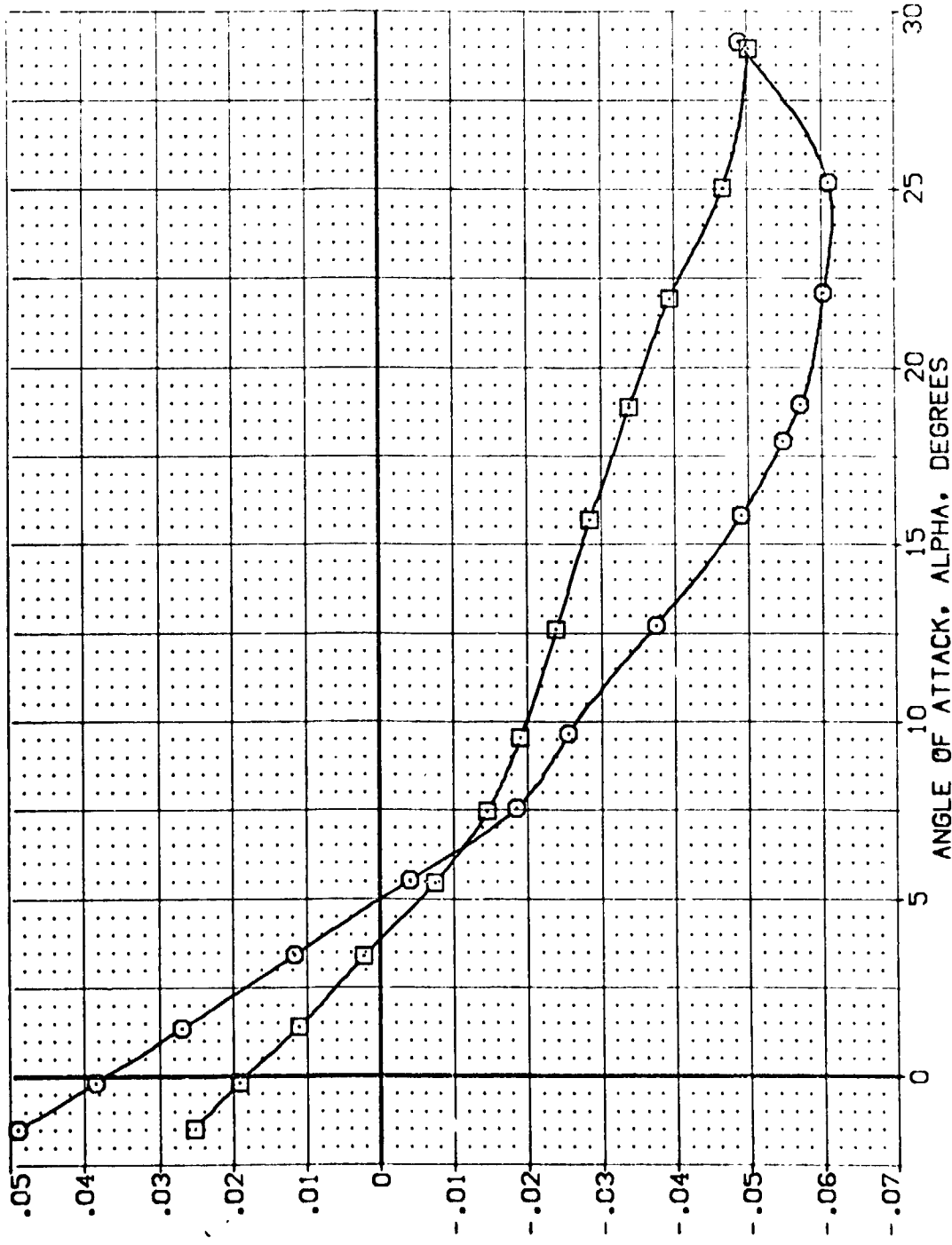
AILRON
SPDRBK
ELEV-L

PARAMETRIC VALUES

.000 ELEVON .000
.000 BOFLAP -11.700
55.000 RUDDER .000
.000 ELEV-R .000

REFERENCE INFORMATION

2.4210 SQ.FT.
14.2440 IN.
28.1004 IN.
32.3010 IN.
05.00 IN.
11.2500 IN.
.0500 SCALE



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A53B B C M F W1 V NOM. RN/L

(TEK011)

SYMBOL

○ □

MACH
1.600
2.002

PARAMETRIC VALUES
BETA .000 ELEVON .000
AILRON .000 EOF LAP -11.700
SPOBRK 55.000 RUDDER .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
REF 2.4210 50.FT.
L REF 14.2440 IN.
B REF 26.1004 IN.
X REF 32.3010 IN.
Y REF .0000 IN.
Z REF 11.2500 IN.
SCALE .0300

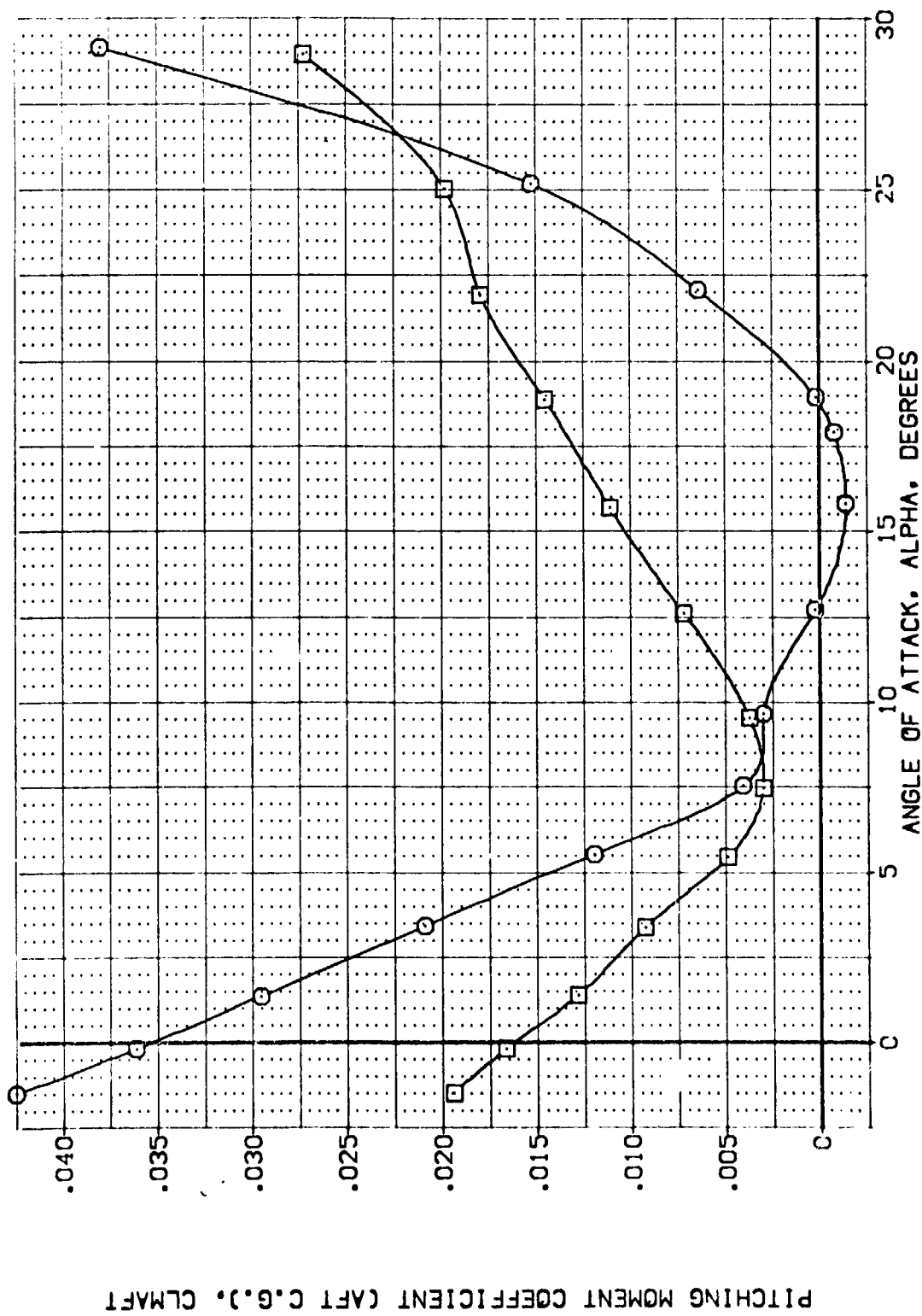


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (TEK011)

SYMBOL
 ○ □

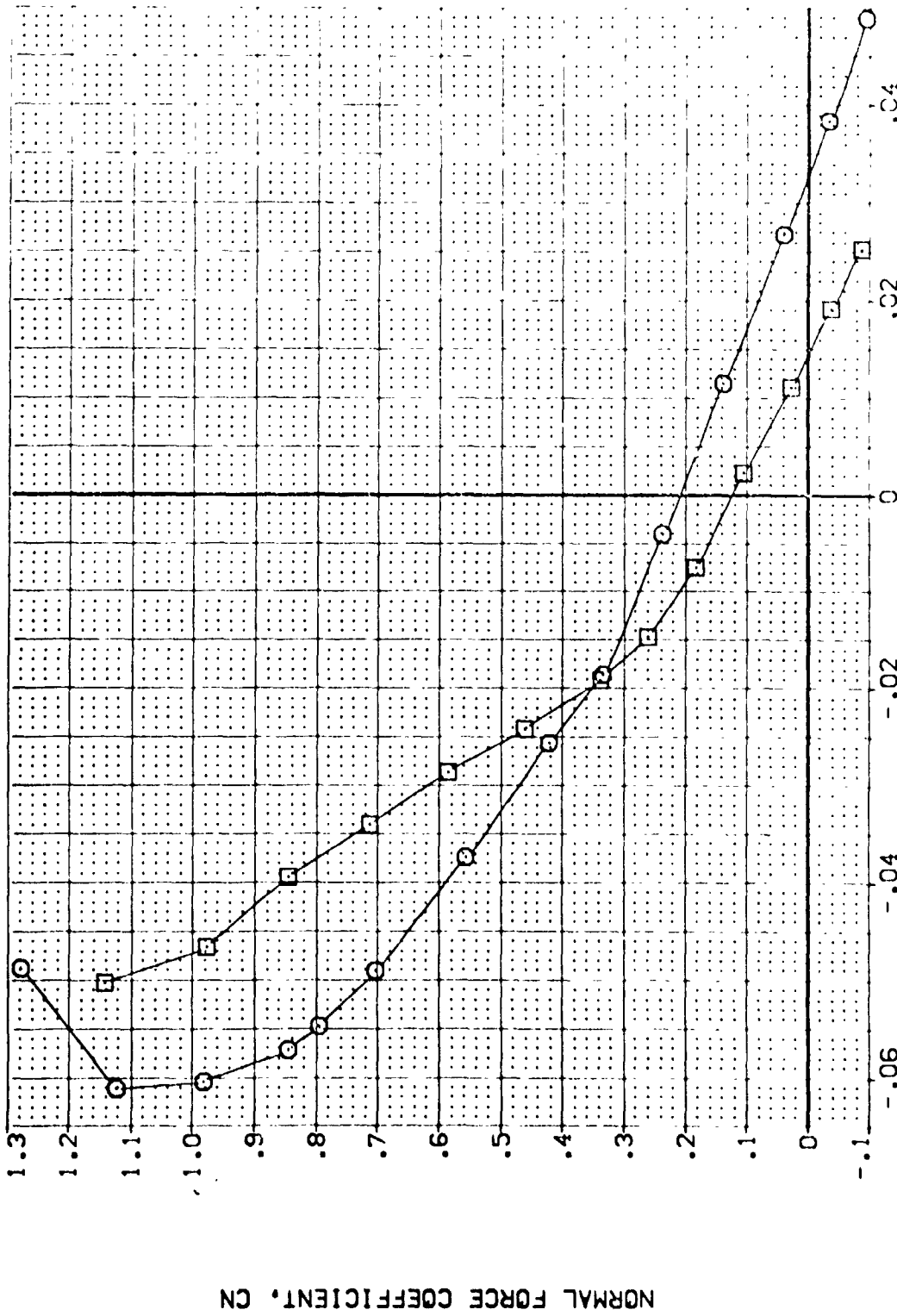
MACH
 1.500
 2.002

BETA
 AILTRN
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON
 .000 BDFLAP
 55.000 RUDDER
 .000 ELEV-R

.000
 -11.700
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMP 32.5010 IN.
 YMP .0000 IN.
 ZMP 11.2500 IN.
 SCALE .0300



NORMAL FORCE COEFFICIENT, CN

PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFWD

FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 OA53B B C M F W1 V NOM. RN/L (TEK011)

SYMBOL



MACH

1.600
2.002

BETA

.000

AILERON

.000

SPDSTRK

56.000

PARAMETRIC VALUES

ELEVON .000
BOFLAP -11.700
RUDDER .000
ELEV-R .000

ELEVON

.000

BOFLAP

-11.700

RUDDER

.000

ELEV-R

.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300

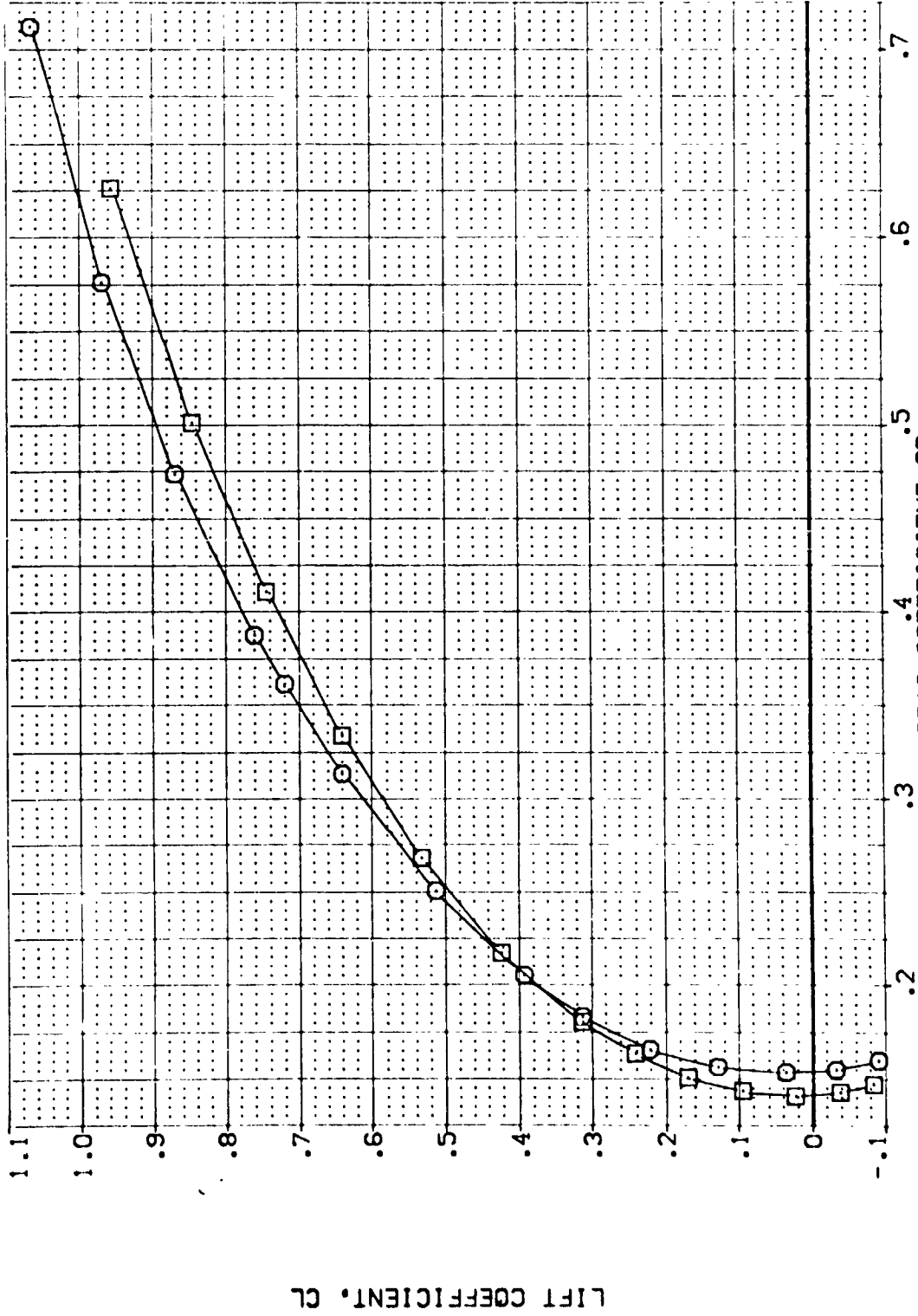


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

ARC 97-747 0A538 B C M F W I V NOM. RN/L (TEK011)

SYMBOL
 ○
 □

MACH
 1.600
 2.002

BETA
 .000
 .000

AILRON
 .000
 .000

SPOBRK
 55.000
 .000

ELEV-L
 .000
 .000

PARAMETRIC VALUES
 ELEVON
 .000

EDFLAP
 -11.700

RUDDER
 .000

ELEV-R
 .000

REFERENCE INFORMATION,
 SQ.FT.
 SREF 2.4210
 LREF 14.2443
 GREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2600
 SCALE .0030

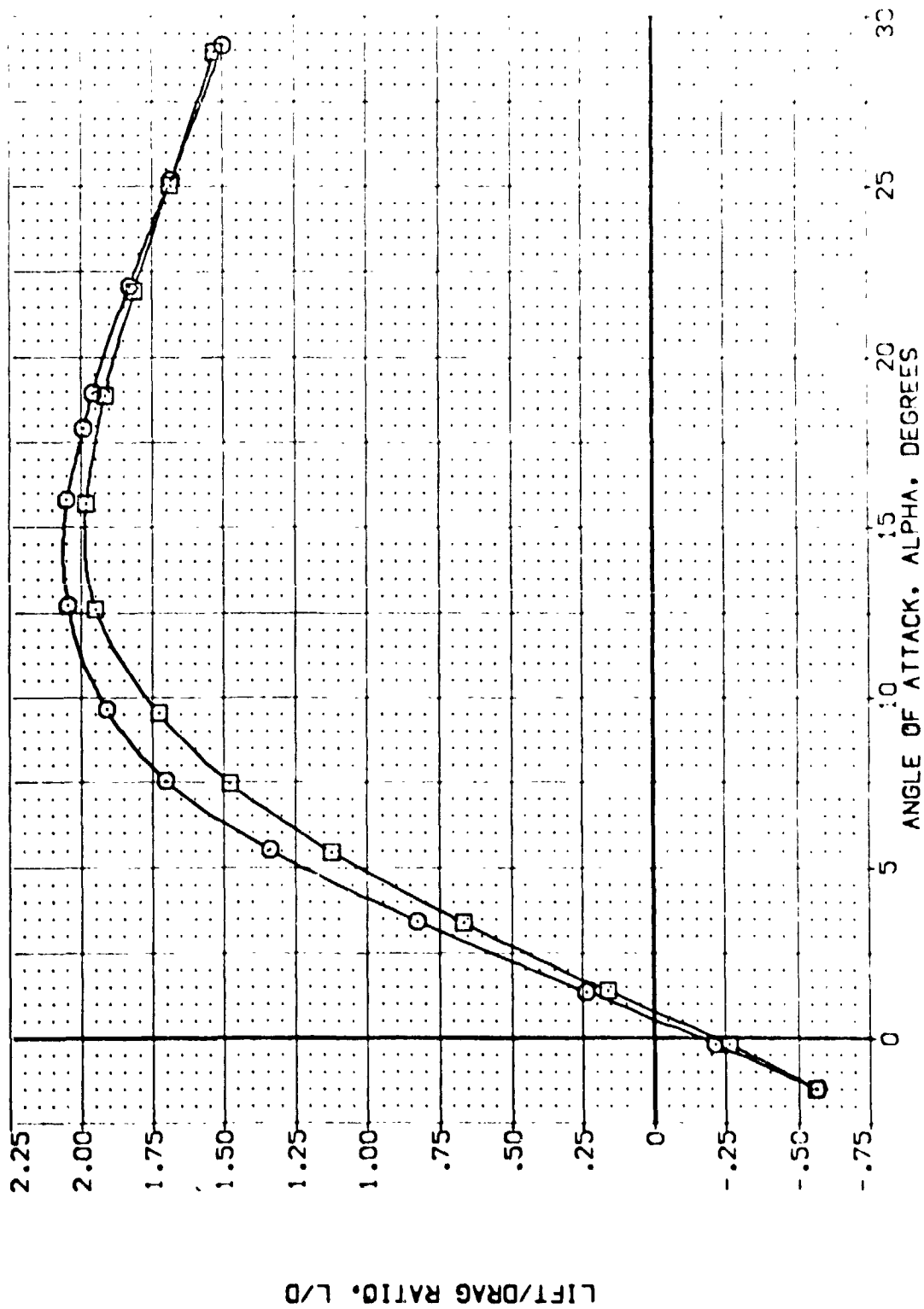


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE



ARC 97-747 CA538 B C M F W I V NOM. RN/L

(AEK011)

SYMBOL



MACH
1.600
2.002

BETA
AILPON
SPDCK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 BOFLAP
56.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
YREF 32.5010 IN.
ZREF 0.0000 IN.
YPRP 11.2500 IN.
ZPRP .0000 IN.
SCALE .0000

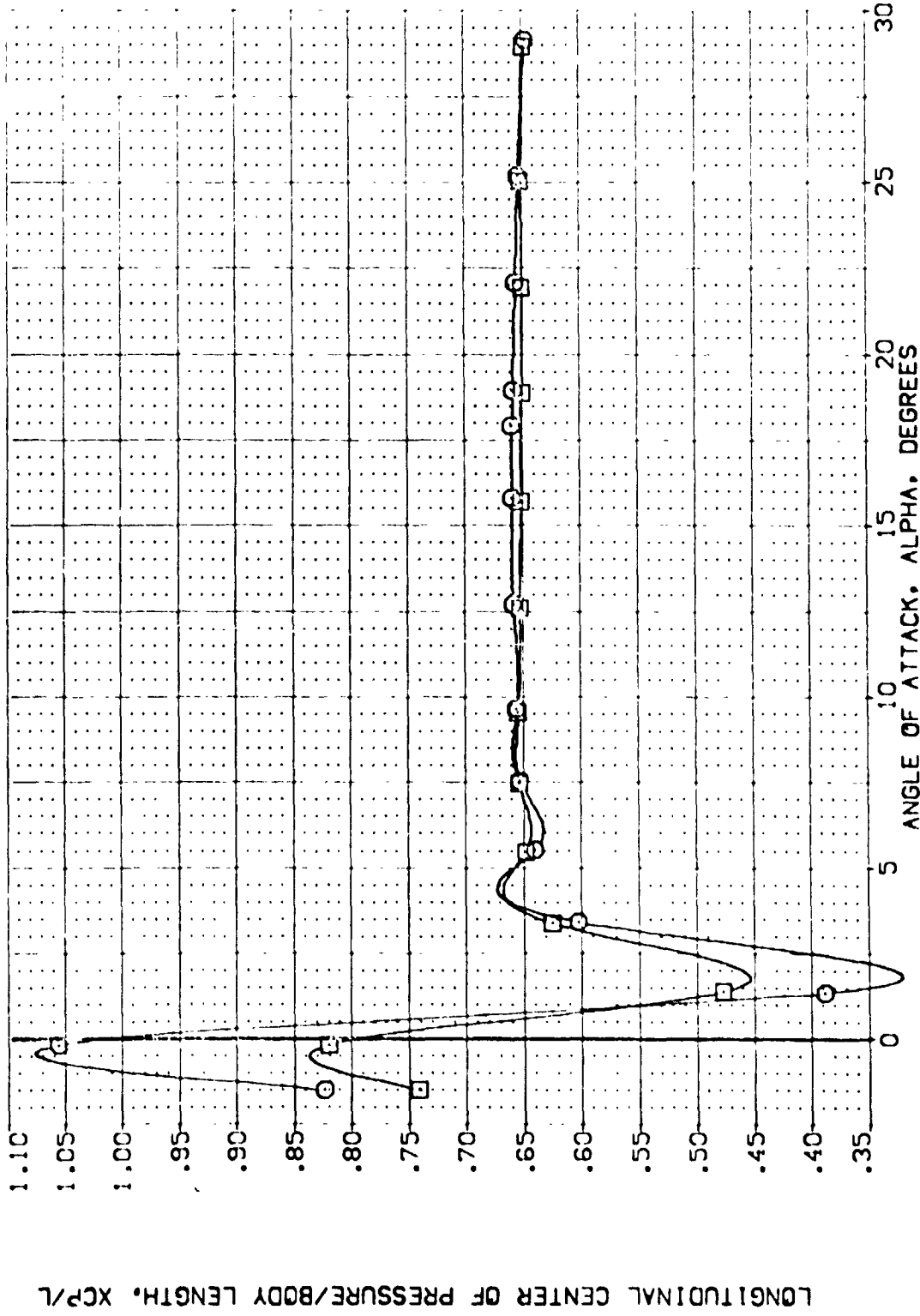


FIG. 4 LONGITUDINAL CHARACTERISTICS OF TOTAL VEHICLE

DATA SET SYMBOL CONFIGURATION DESCRIPTION HIGH RV/L NOM. RV/L LOW RV/L

[TEPR17] ARC 97-747 OAS38 B C M F V1 V 4.000 2.750 1.120

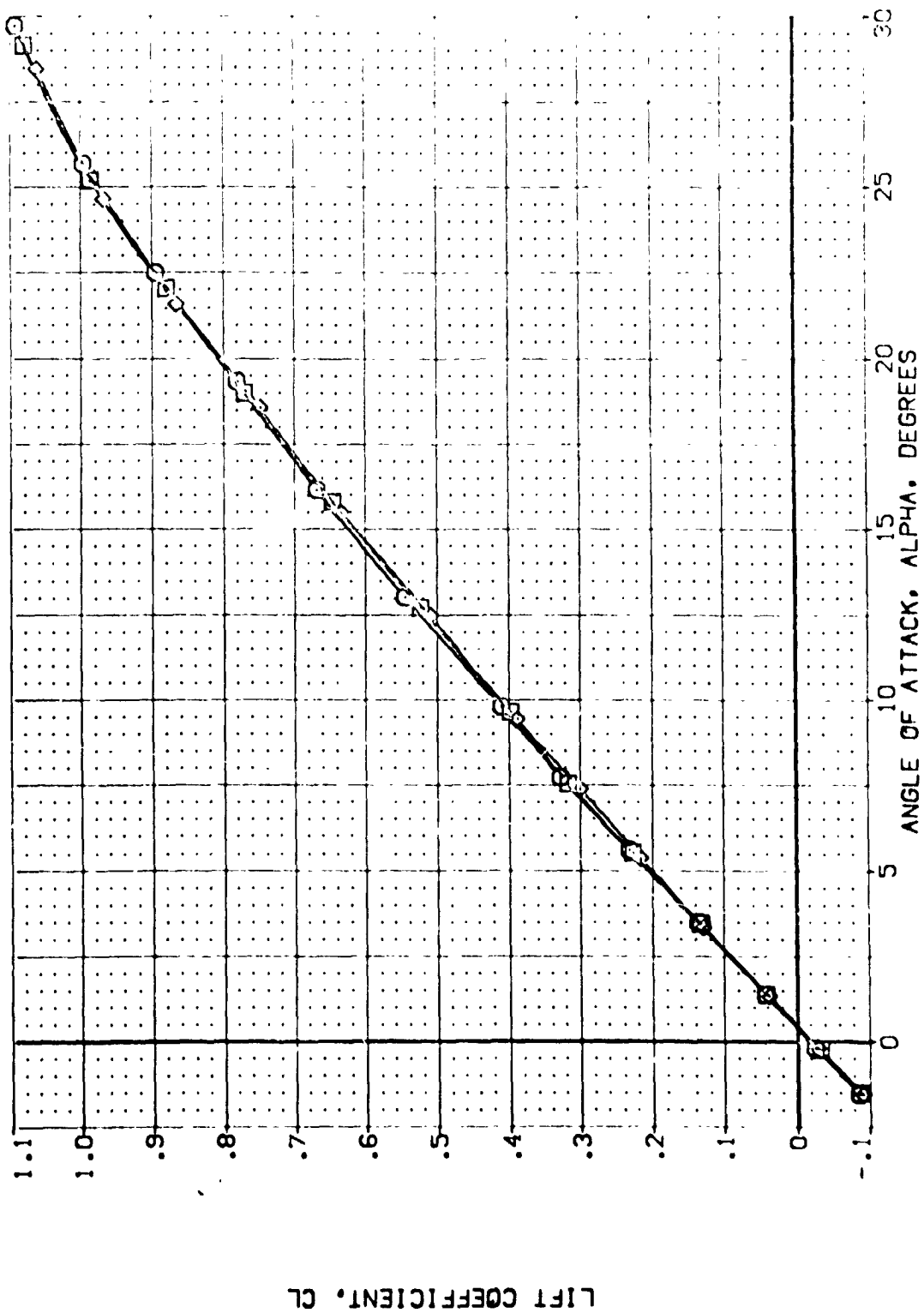
[TEPR16] ARC 97-747 OAS33 B C M F V1 V .000 .000 .000

[TEPR15] ARC 97-747 OAS33 B C M F V1 V .000 .000 .000

REFERENCE INFORMATION SQ. FT. SPOBRK BOFLAP ALLRBN RV/L SREF LREF EREF XREF YREF ZREF SCALE

2.4210 55.000 .000 .000 .000 4.000 2.4210 14.2440 23.1004 32.2016 .0000 .0000 .0000

11.2500 55.000 .000 .000 .000 2.750 1.120 .0000 .0000 .0000 .0000 .0000 .0000



LIFT COEFFICIENT, CL

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AILTRON	EDFLAP	SPOBRK	REFERENCE INFORMATION
{TEMR17}	ARC 97-747 CAS33 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ. FT.
{TEMR16}	ARC 97-747 CAS33 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2740 IN.
{TEMR15}	ARC 97-747 CAS33 B C M F VI V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						XREF 32.3010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

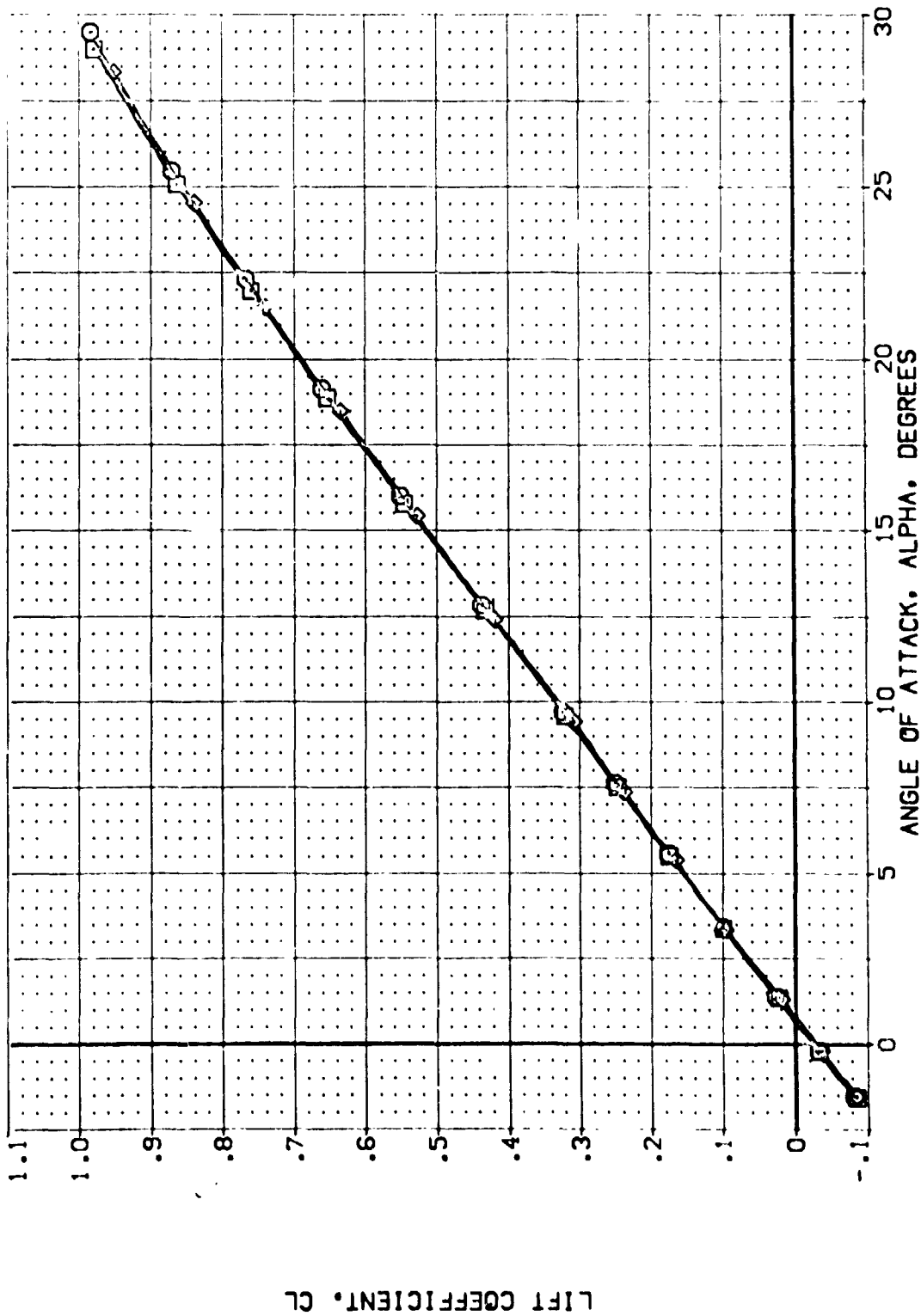


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RAVL	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEOR17)	ARC 97-747 BA538 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ. FT.
(TEOR16)	ARC 97-747 BA538 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEOR15)	ARC 97-747 BA538 B C M F V1 V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0020

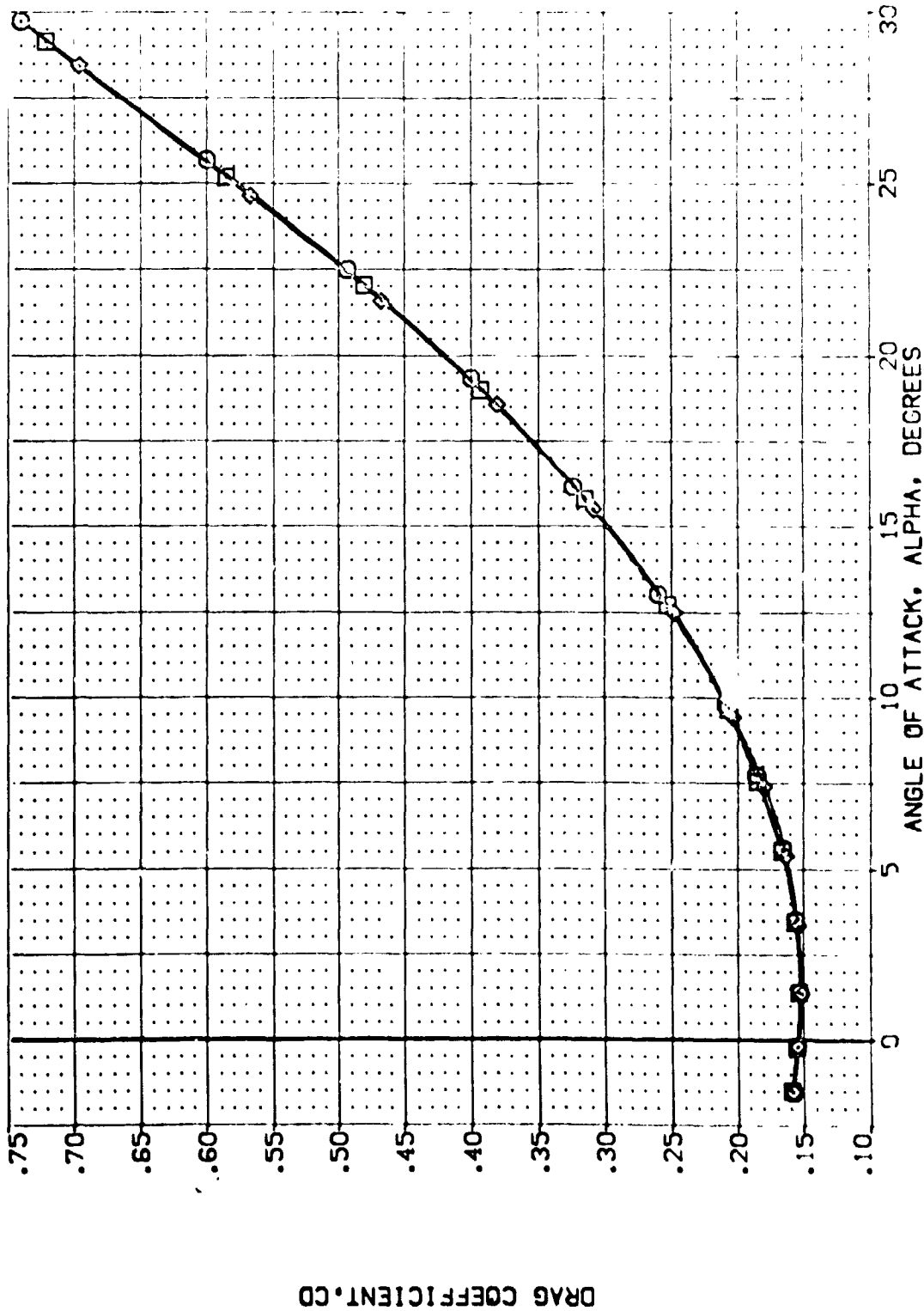


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[*EXP:7] O ARC 97-747 CA503 B C M F V | V HIGH RNVL
 [*EXP:6] X ARC 97-747 CA503 B C M F V | V MDV, RNVL
 [*EXP:5] X ARC 97-747 CA503 B C M F V | V LDV, RNVL

RNVL 4.000
 2.750
 1.120

AIRLON .000
 .000
 .000

BOFLAP .000
 .000
 .000

SPOBRK 55.000
 55.000
 55.000

SREF 2.4210
 LRPF 14.2440
 SPREF 28.1004
 XMSD 30.2010
 YMSD .0000
 ZMSD 11.2500
 SCALE .0000

REFERENCE INFORMATION
 SC.FT. 2.4210
 IN. 14.2440
 IN. 28.1004
 IN. 30.2010
 IN. .0000
 IN. 11.2500
 SCALE .0000

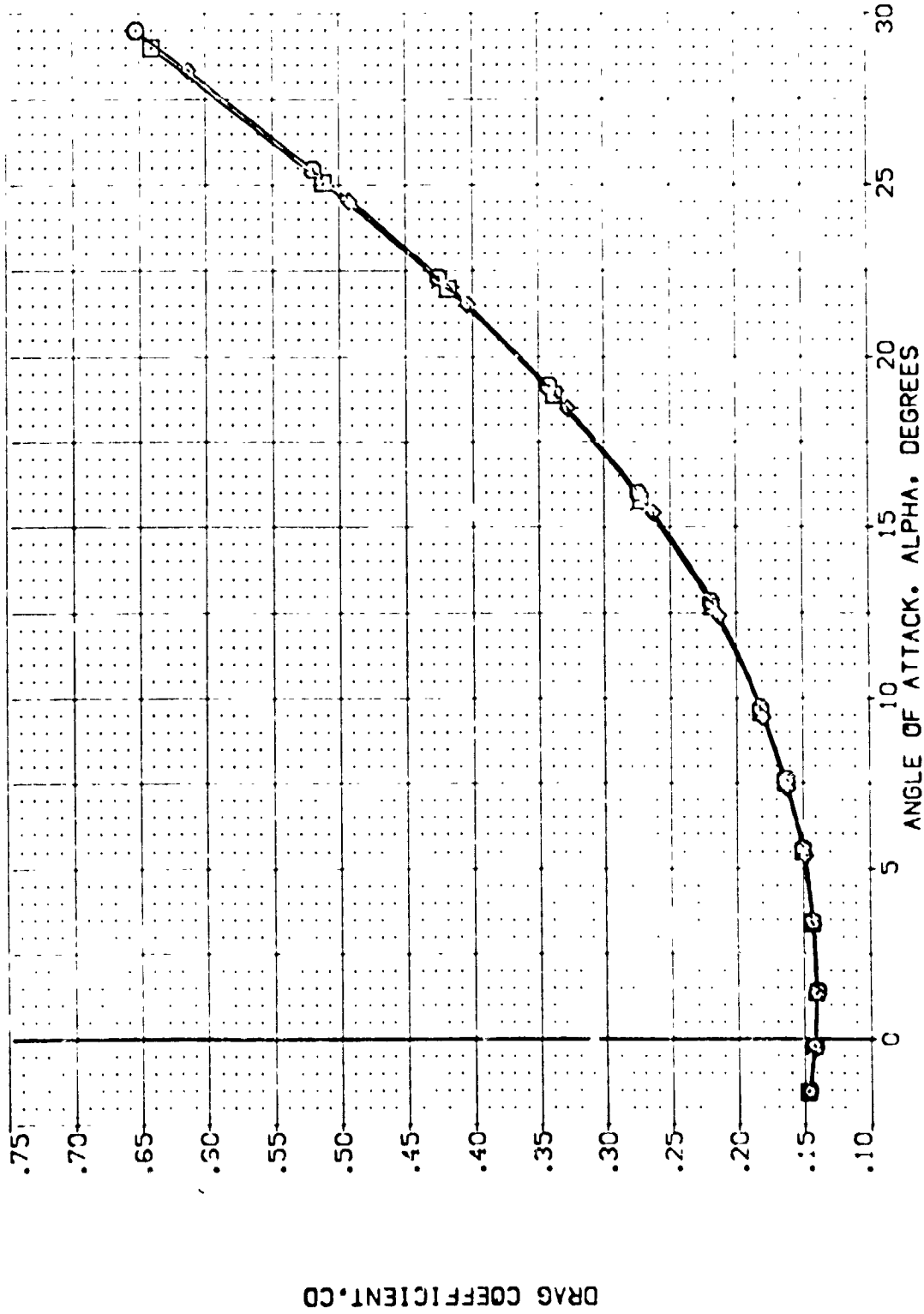


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(8)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RV/L	LOW RV/L	RV/L	AIL/RON	BDF/LAP	SPDRBK	REFERENCE INFORMATION	SQ.FT.
{TEVR17}	ARC 97-747 OAS38 B C M F VI V	RV/L	RV/L	4.000	.000	.000	55.000	SREF	2.4210
{TEVR16}	ARC 97-747 OAS38 B C M F VI V	NOM. RV/L	NOM. RV/L	2.750	.000	.000	55.000	LREF	14.2440
{TEVR15}	ARC 97-747 OAS38 B C M F VI V	RV/L	RV/L	1.120	.000	.000	55.000	SREF	28.1000
								XREF	32.2510
								YMRP	.0000
								ZMRP	11.2500
								SCALE	.0000

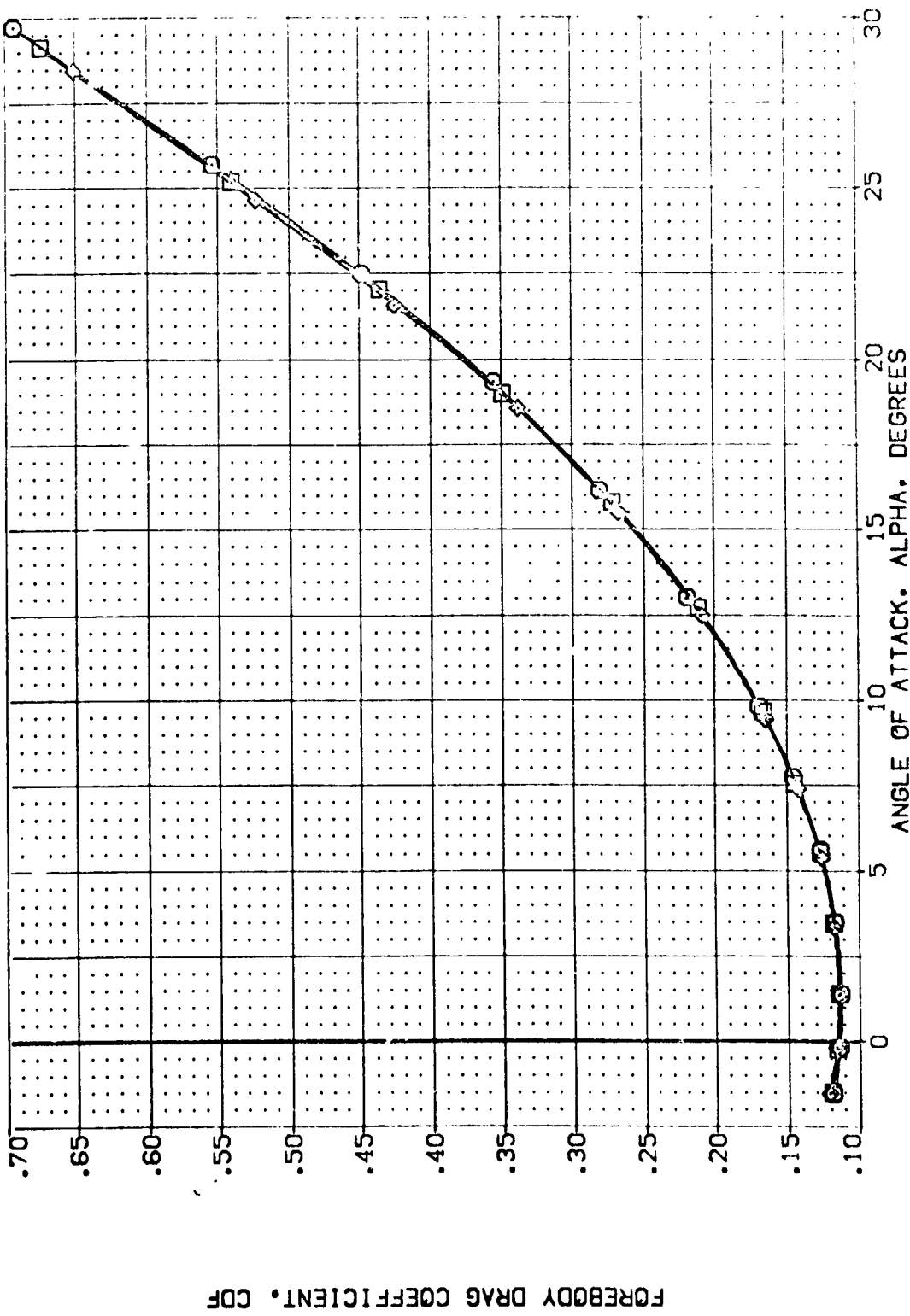


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	ATLRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS23 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEKR16)	ARC 97-747 OAS23 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEKR15)	ARC 97-747 OAS23 B C H F V1 V	1.120	.000	.000	55.000	BREF 20.1004 IN.
						XMRP 32.5010 IN.
						YMRP .6300 IN.
						ZMRP 11.2300 IN.
						SCALE .0300

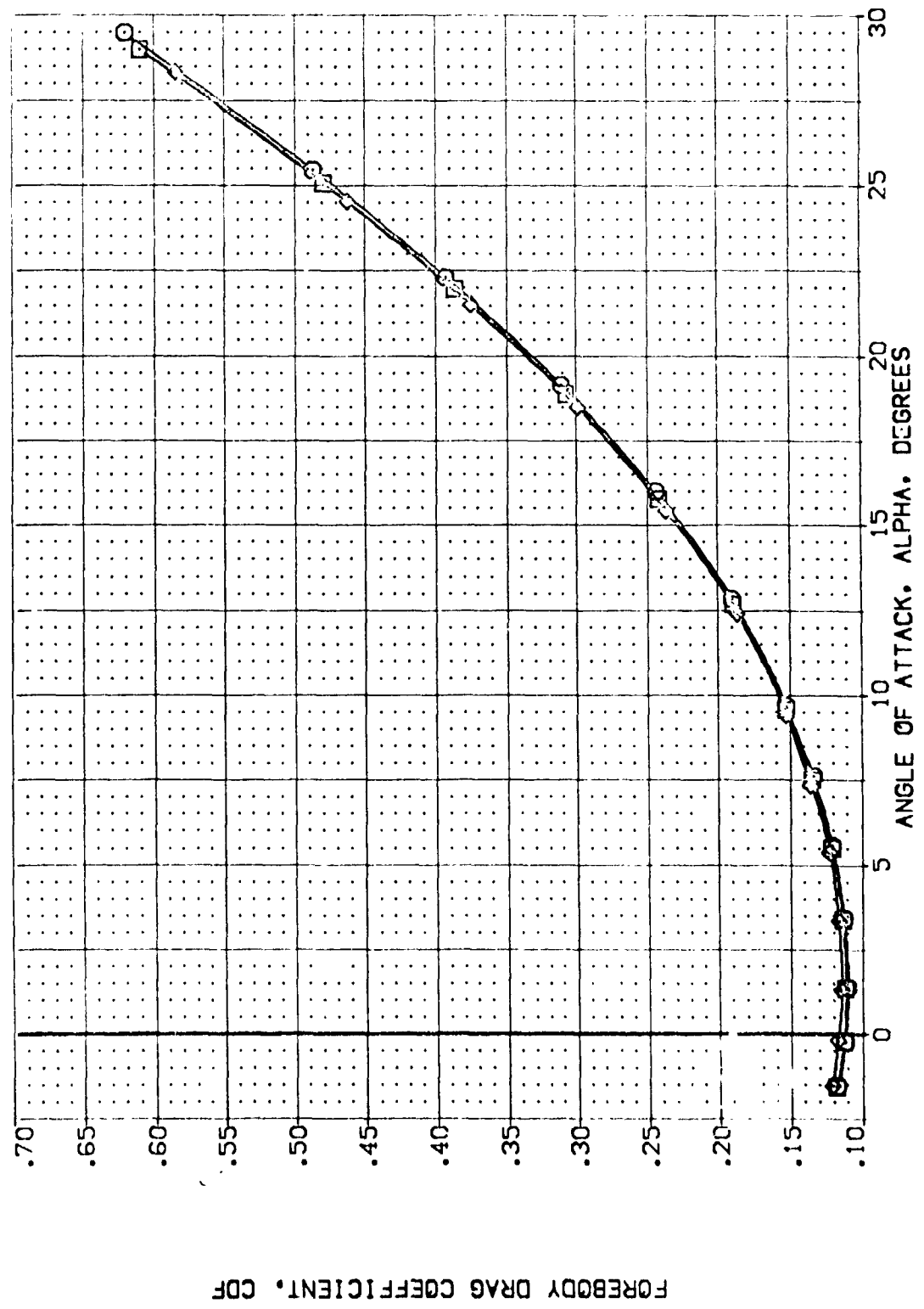
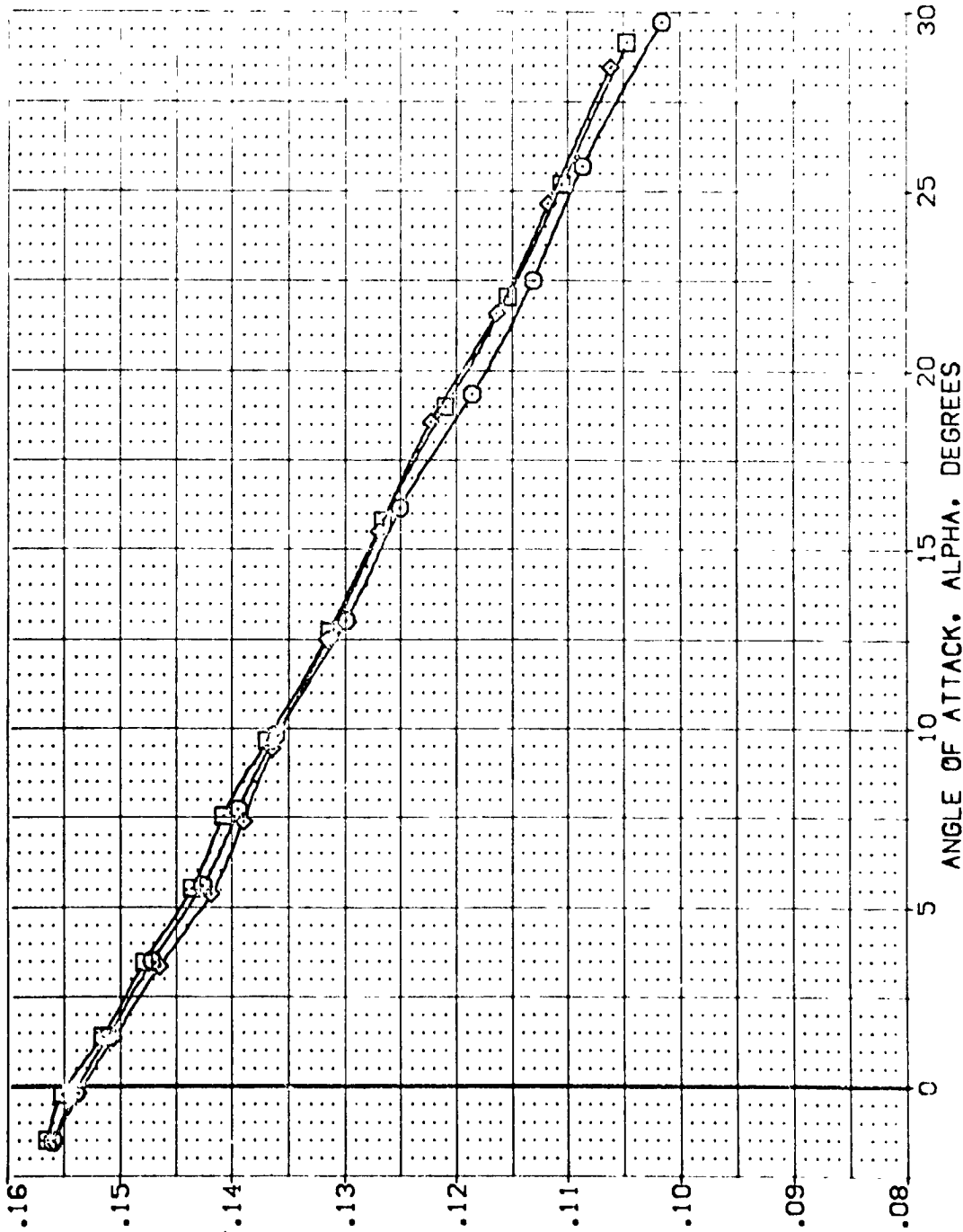


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B) $\mu/\rho = 2.00$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVAL	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEKR17}	ARC 97-747 D4S38 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ. FT.
{TEKR16}	ARC 97-747 D4S38 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2440 IN.
{TEKR15}	ARC 97-747 D4S38 B C M F V1 V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						XMRP 32.2010 IN.
						CMRQ 11.2500 IN.
						ZMRQ .0300 SCALE



AXIAL FORCE COEFFICIENT, CA

FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

CA/MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[TEKR:7] ARC 97-747 CAS38 B C M F VI V HIGH RV/L
 [TEKR:6] ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 [TEKR:5] ARC 97-747 CAS38 B C M F VI V LOW RV/L

RV/L AILRON BOFLAP SPOBRK REFERENCE INFORMATION

4.000 .000 .000 2.4210 50.FT.
 2.750 .000 .000 14.2440 IN.
 1.120 .000 .000 28.1004 IN.
 .000 .000 .000 32.3010 IN.
 .000 .000 .000 11.2500 IN.
 .000 .000 .000 11.2500 IN.
 .000 .000 .000 .0300 SCALE

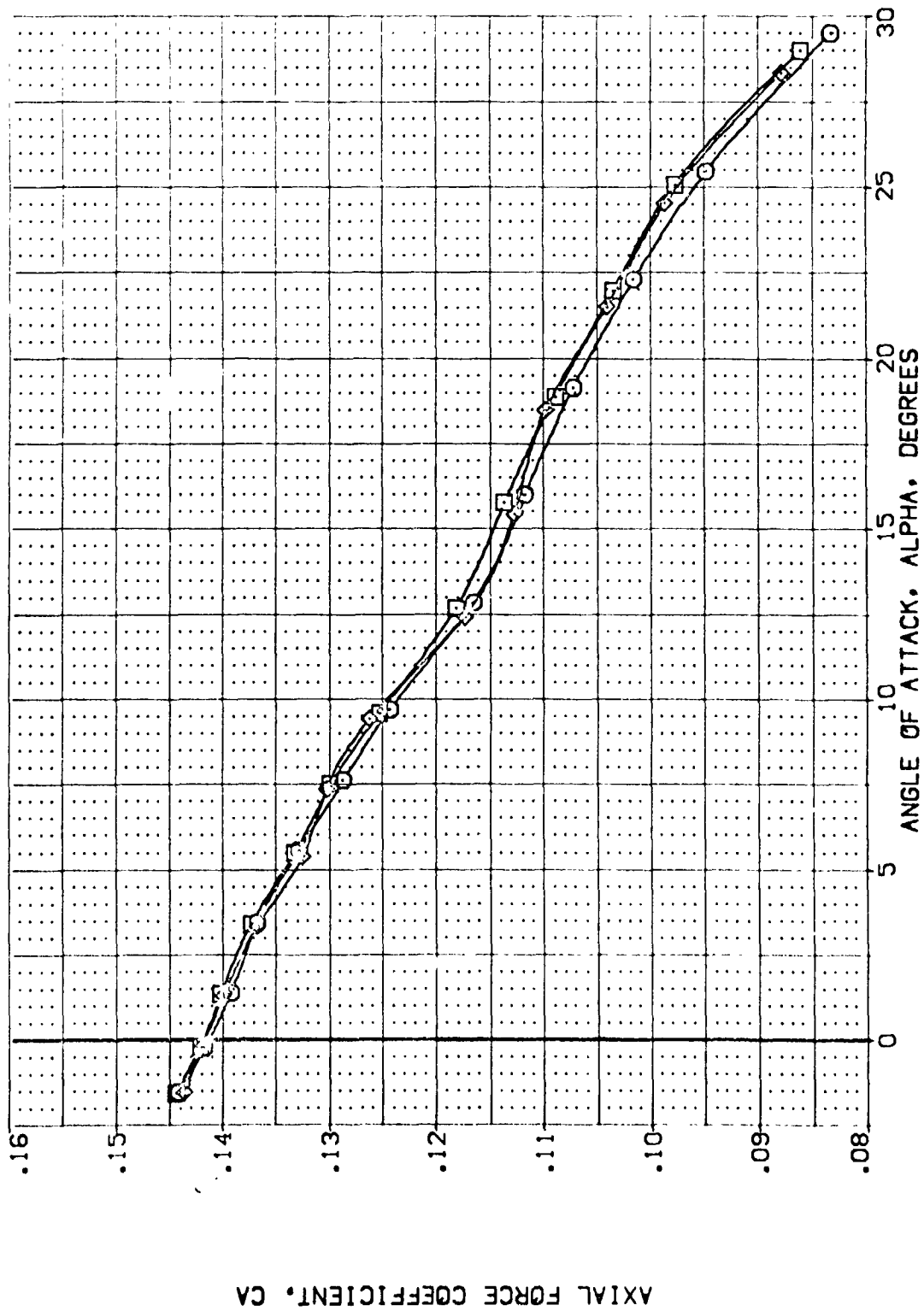


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	A1/LRON	BDFLAP	SPDRK	REFERENCE INFORMATION
{TEKR17}	ARC 97-747 OAS38 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 50. FT.
{TEKR16}	ARC 97-747 OAS38 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
{TEKR15}	ARC 97-747 OAS38 B C M F VI V	1.120	.000	.000	55.000	BREF 28.1004 IN.
						YMFP .0000 IN.
						ZMFP .0000 IN.
						SCALE .0000

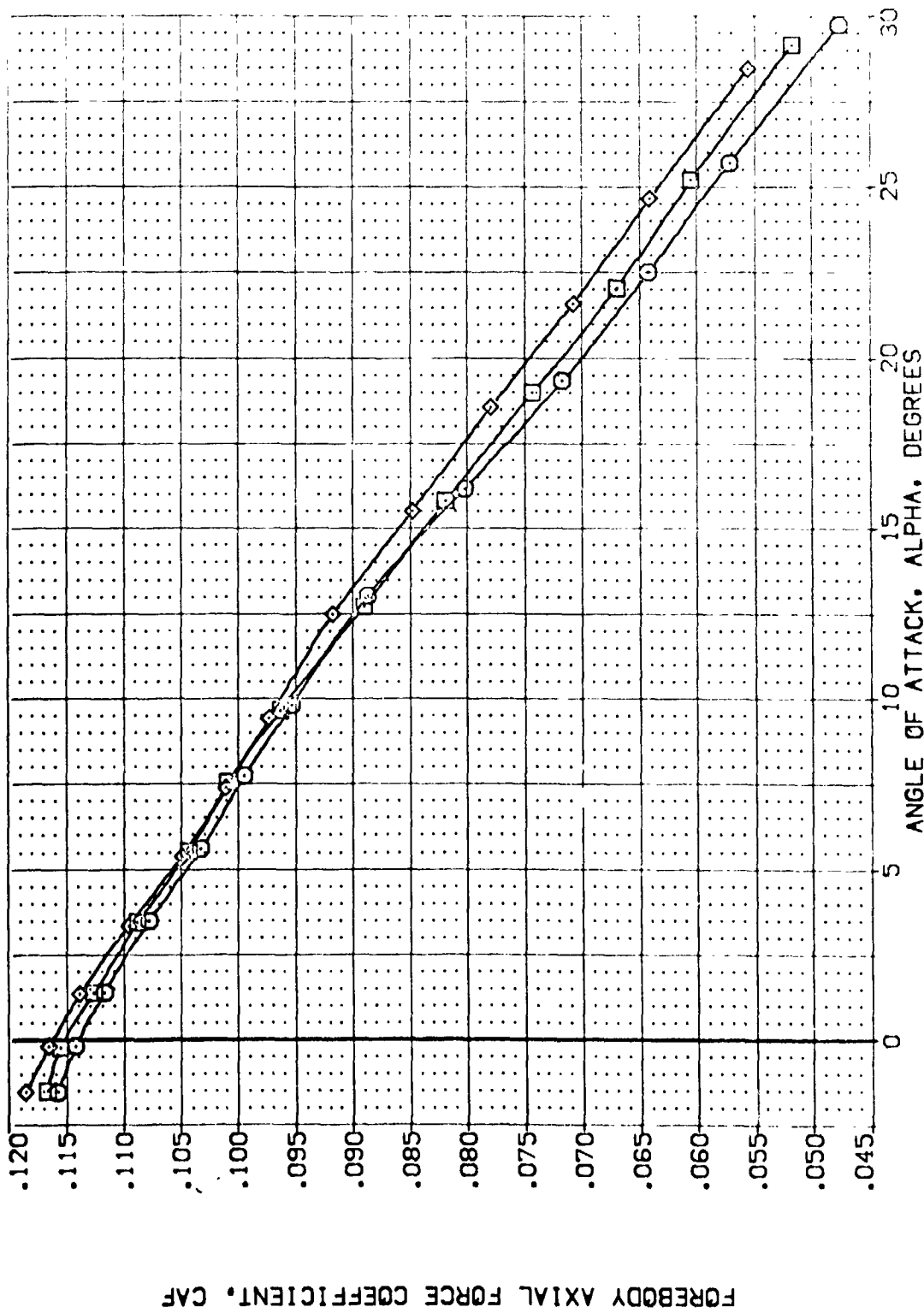


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION HIGH RV/L LOW RV/L

[TEKRI7] ARC 97-747 CAS30 B C M F VI V

[TEKRI6] ARC 97-747 CAS30 B C M F VI V

[TEKRI5] ARC 97-747 CAS30 B C M F VI V

RV/L AILRON BOFLAP SPOBRK REFERENCE INFORMATION SQ.FT.

4.000 .000 55.000 SREF 2.4210 50.000

2.750 .000 55.000 LREF 14.2440 IN.

1.120 .000 55.000 BREF 20.1004 IN.

XMSP 32.5010 IN.

ZMSP 11.2600 IN.

SCALE .0300 SCALE

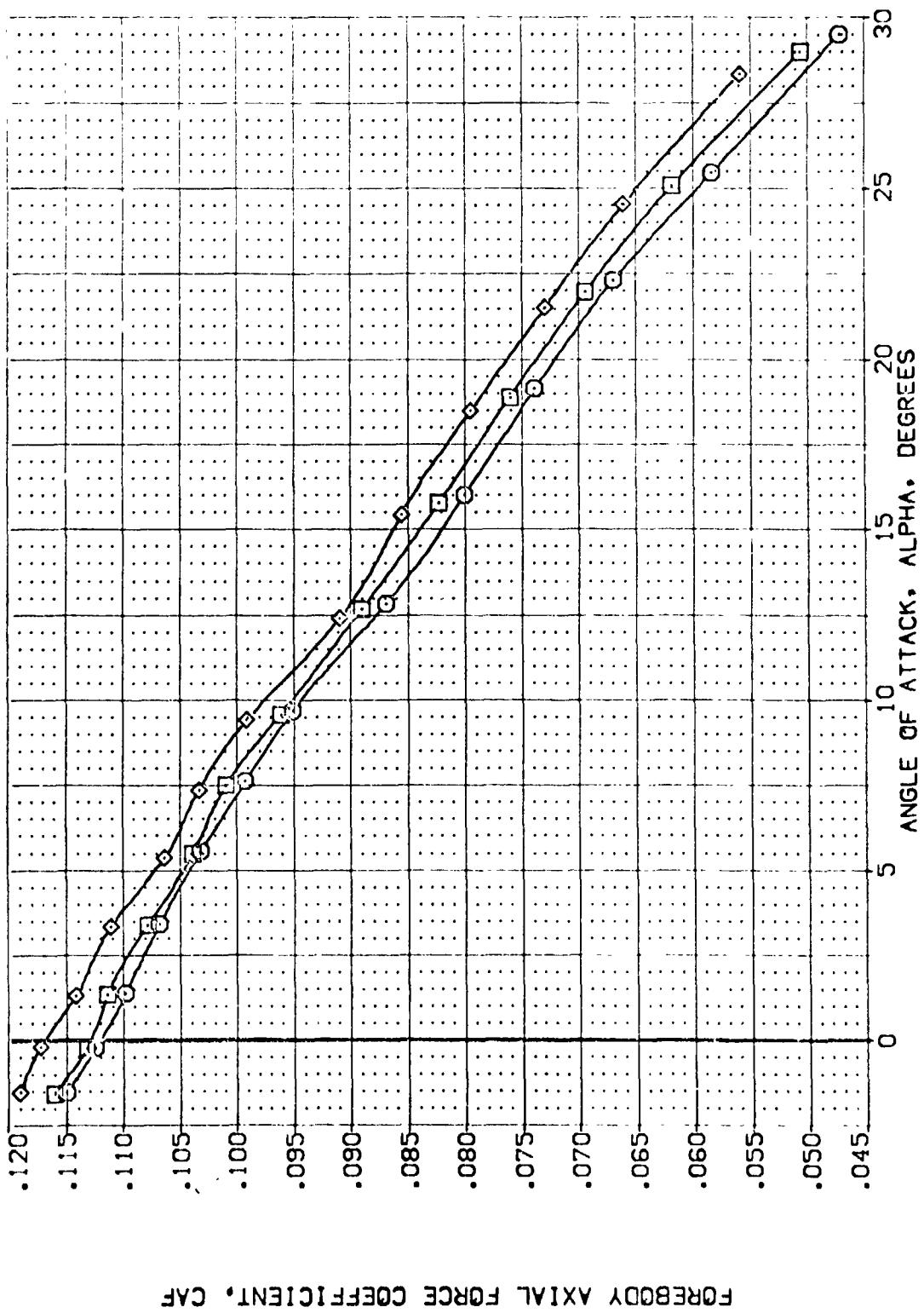
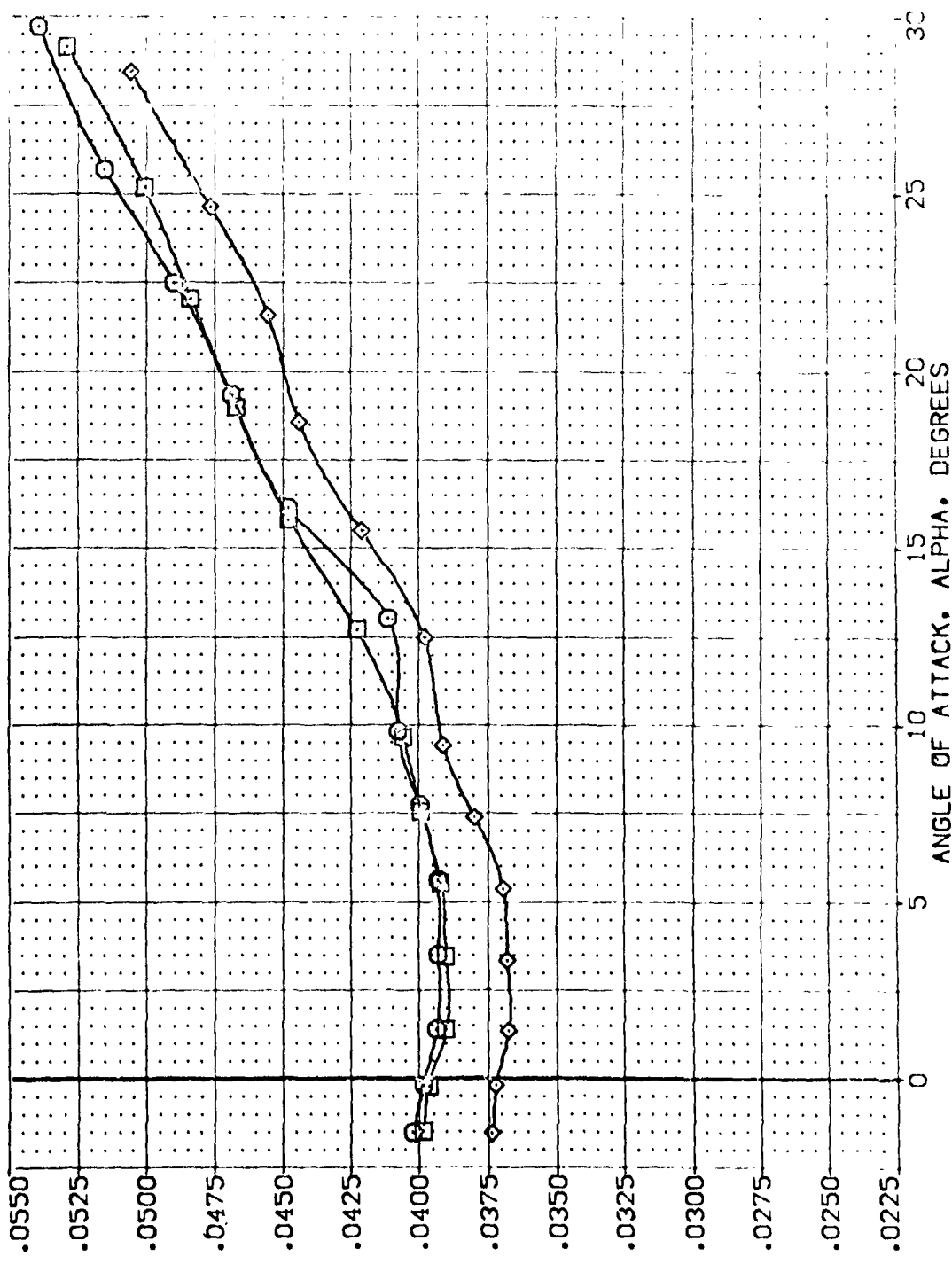


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS38 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210
(TEKR16)	ARC 97-747 OAS33 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440
(TEKR15)	ARC 97-747 OAS33 B C M F VI V	1.120	.000	.000	55.000	EREF 28.1000
						APREF 32.5310
						YMPREF .0000
						ZMPREF .0000
						SCALE 11.4000
						IN. .0030
						SCALE



BASE AXIAL FORCE COEFFICIENT, CAB

FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (TEKR17), (TEKR16), (TEKR15)
 CONFIGURATION DESCRIPTION: ARC 97-747 CASE3 B C M F V1 V, ARC 97-747 CASE3 B C M F V1 V, ARC 97-747 CASE3 B C M F V1 V
 HIGH RV/L: RV/L, ND1, RV/L, LOW RV/L
 RV/L: 4.000, 2.750, 1.120
 AILTRON: .000, .000, .000
 BDFLAP: .000, .000, .000
 SPOBRK: 55.000, 55.000, 55.000
 REFERENCE INFORMATION: SREF 2.4210 SQ.FT., LREF 14.2480 IN., EREF 20.1000 IN., XREF 32.2010 IN., YREF 10.0000 IN., ZREF 11.0000 IN., SCALE .0050

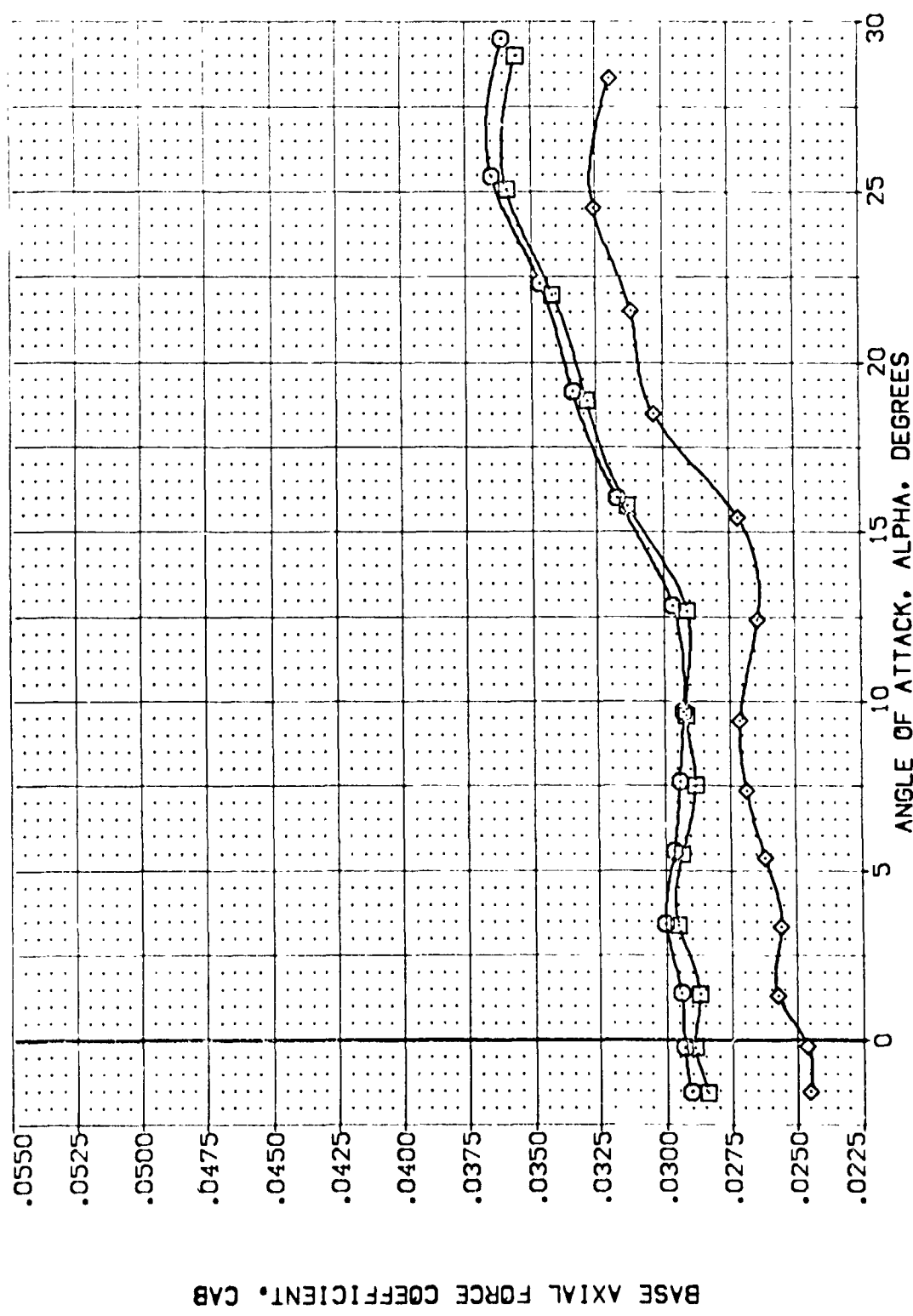


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIL/RON	BD/LAP	SPO/BRK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 0A538 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEKR16)	ARC 97-747 0A538 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2410 IN.
(TEKR15)	ARC 97-747 0A538 B C M F V1 V	1.120	.000	.000	55.000	EREF 23.1004 IN.
						XREF 32.9310 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000 SCALE

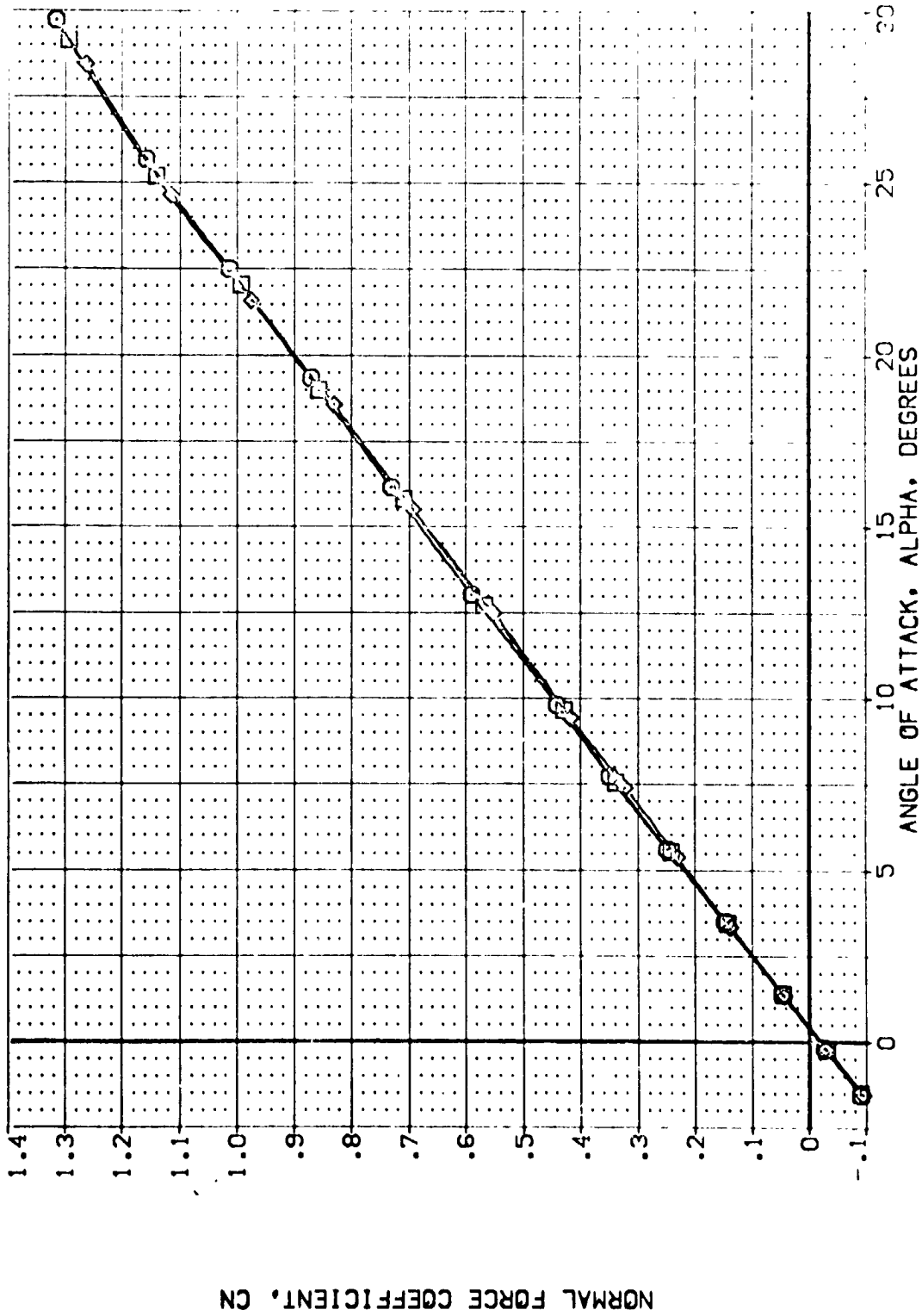


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RVNL	RVNL	AIRLON	BDFLAP	SPDRBK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 CAS29 B C M F VI V	RVNL	4.000	.000	.000	55.000	SREF 2.4210 50.FT.
(TEKR16)	ARC 97-747 CAS22 B C M F VI V	NOM. RVNL	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEKR15)	ARC 97-747 CAS23 B C M F VI V	LOW RVNL	1.120	.000	.000	55.000	ESCF 20.1000 IN.
							YMXP 92.0000 IN.
							ZMXP 11.0000 IN.
							SCALE .10000 SCALE

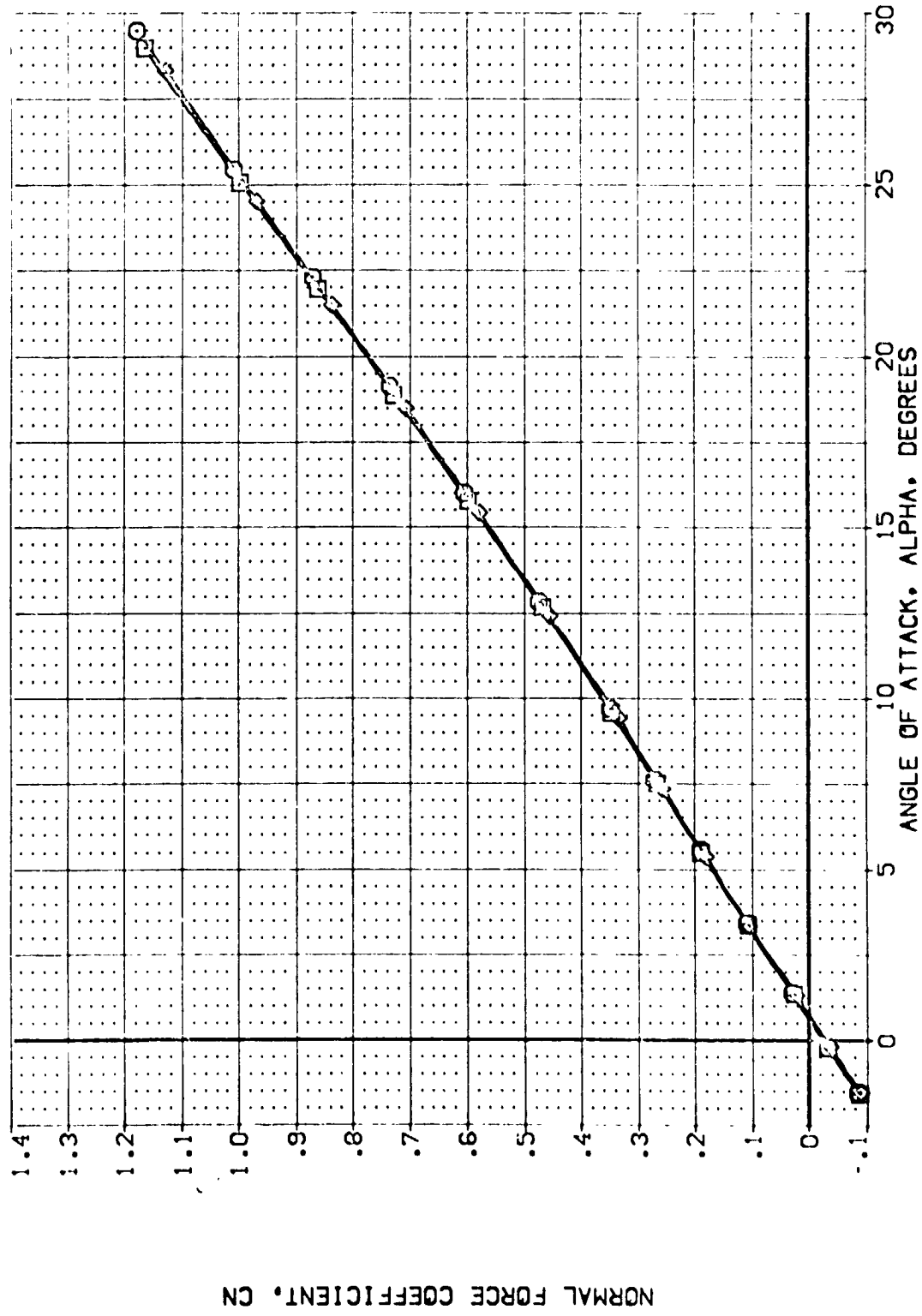


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION HIGH RV/L LOW RV/L

(TEPR17) ARC 97-747 OAS38 B C M F VI V 4.000

(TEPR16) ARC 97-747 OAS38 B C M F VI V 2.750

(TEPR15) ARC 97-747 OAS38 B C M F VI V 1.120

RV/L AIRLON BOFLAP SPOBRK

4.000 .000 .000 55.000

2.750 .000 .000 55.000

1.120 .000 .000 55.000

REFERENCE INFORMATION

SRREF 2.4210 SQ.FT.

LRREF 14.2740 IN.

CRREF 28.1004 IN.

XRREF 32.5010 IN.

YRREF .6200 IN.

ZRREF 11.2500 IN.

SCALE .0000 SCALE

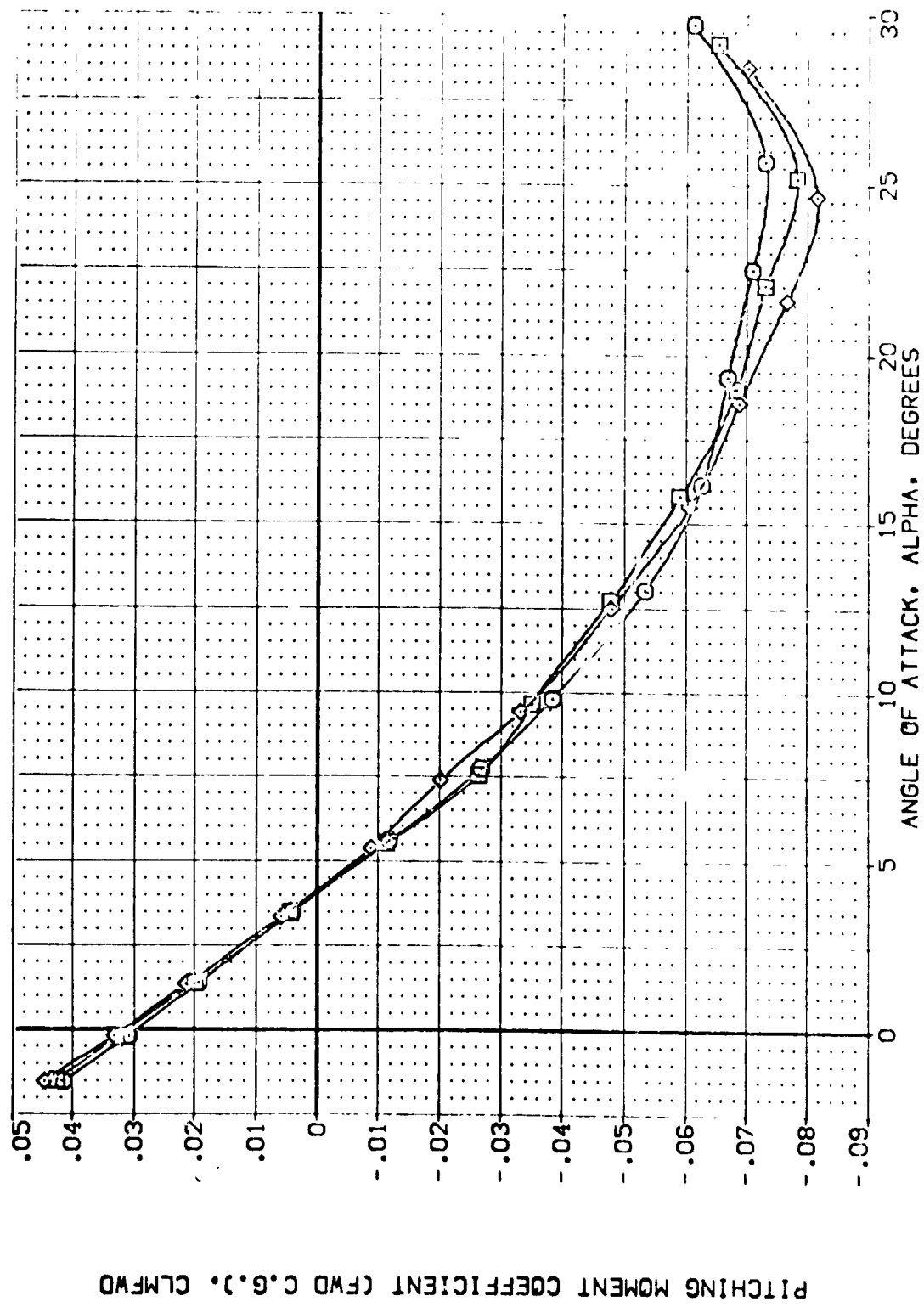


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RV/L	LOW RV/L	RV/L	AILTRON	BOFLAP	SPODBRK	REFERENCE INFORMATION
{TEMR:7}	ARC 57-747 C-503 B C M F VI V	4.000		4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{TEMR:6}	ARC 57-747 C-503 B C M F VI V	2.750		2.750	.000	.000	55.000	LREF 14.2643 IN.
{TEMR:5}	ARC 97-747 C-1503 B C M F VI V			1.120	.000	.000	55.000	UREF 23.1664 IN.
								VREF 32.15316 IN.
								YREF .0000 IN.
								ZREF 11.2500 IN.
								SCALE .0000

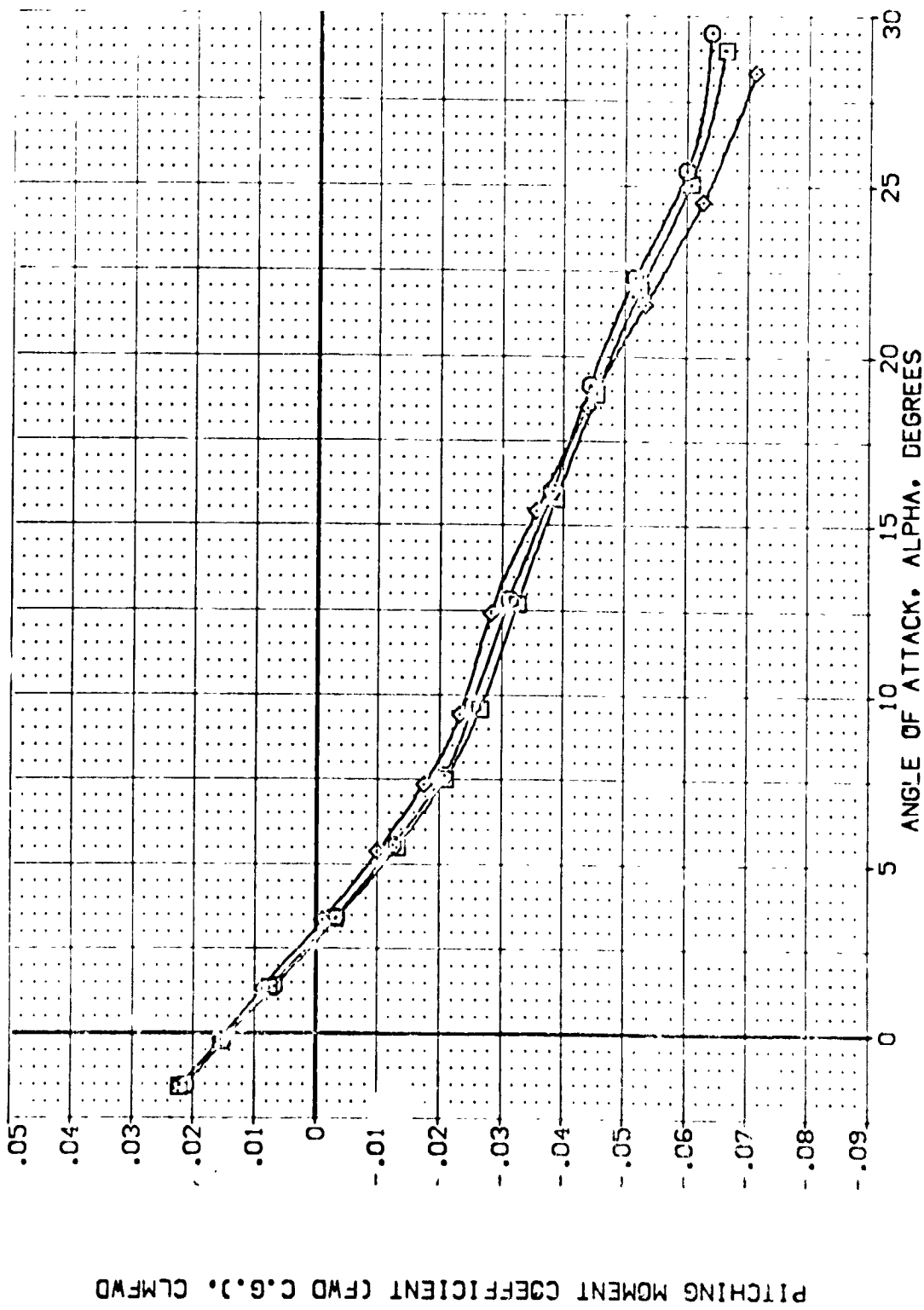


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: [TEKR17] [TEKR16] [TEKR15]

CONFIGURATION DESCRIPTION: ARC 97-747 OAS33 B C H F VI V HIGH RV/L 4.000
 ARC 97-747 OAS33 B C H F VI V N31. RV/L 2.750
 ARC 97-747 OAS33 B C H F VI V LOW RV/L 1.120

REFERENCE INFORMATION: SREF 2.4210 SQ. FT. 2.4210
 LREF 14.2440 IN. 14.2440
 BREF 28.4880 IN. 28.4880
 XMAP 32.6240 IN. 32.6240
 YMAP 11.5440 IN. 11.5440
 ZMAP 11.5440 IN. 11.5440
 SCALE .0030

SPDRK 55.000
 BOFLAP .000
 AILTRN .000
 RV/L 4.000
 RV/L 2.750
 RV/L 1.120

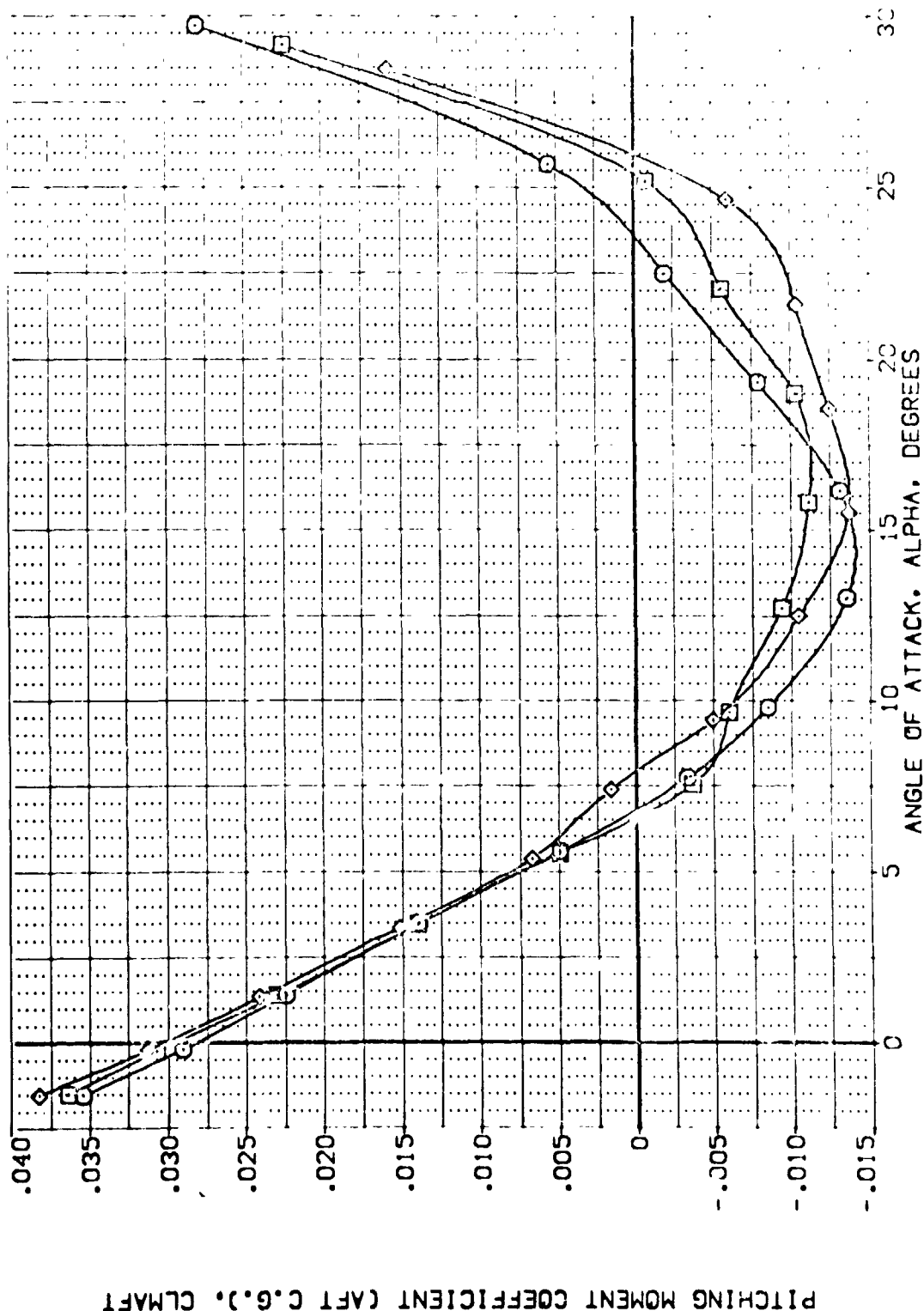


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIR/RON	BO/LAP	SPOBRK	REFERENCE INFORMATION
{TEPR17}	ARC 97-747 B A S 29 B C M F #1 V	4.000	.000	.000	55.000	SRRF 2.4210 SQ.FT.
{TEPR16}	ARC 97-747 B A S 23 B C M F #1 V	2.750	.000	.000	55.000	LE/F 14.2540 IN.
{TEPR15}	ARC 97-747 B A S 23 B C M F #1 V	1.120	.000	.000	55.000	DI/F 20.1700 IN.
						MA/S 32.2010 IN.
						Y/F 7.000 IN.
						Z/F 11.0000 IN.
						SCALE .0000

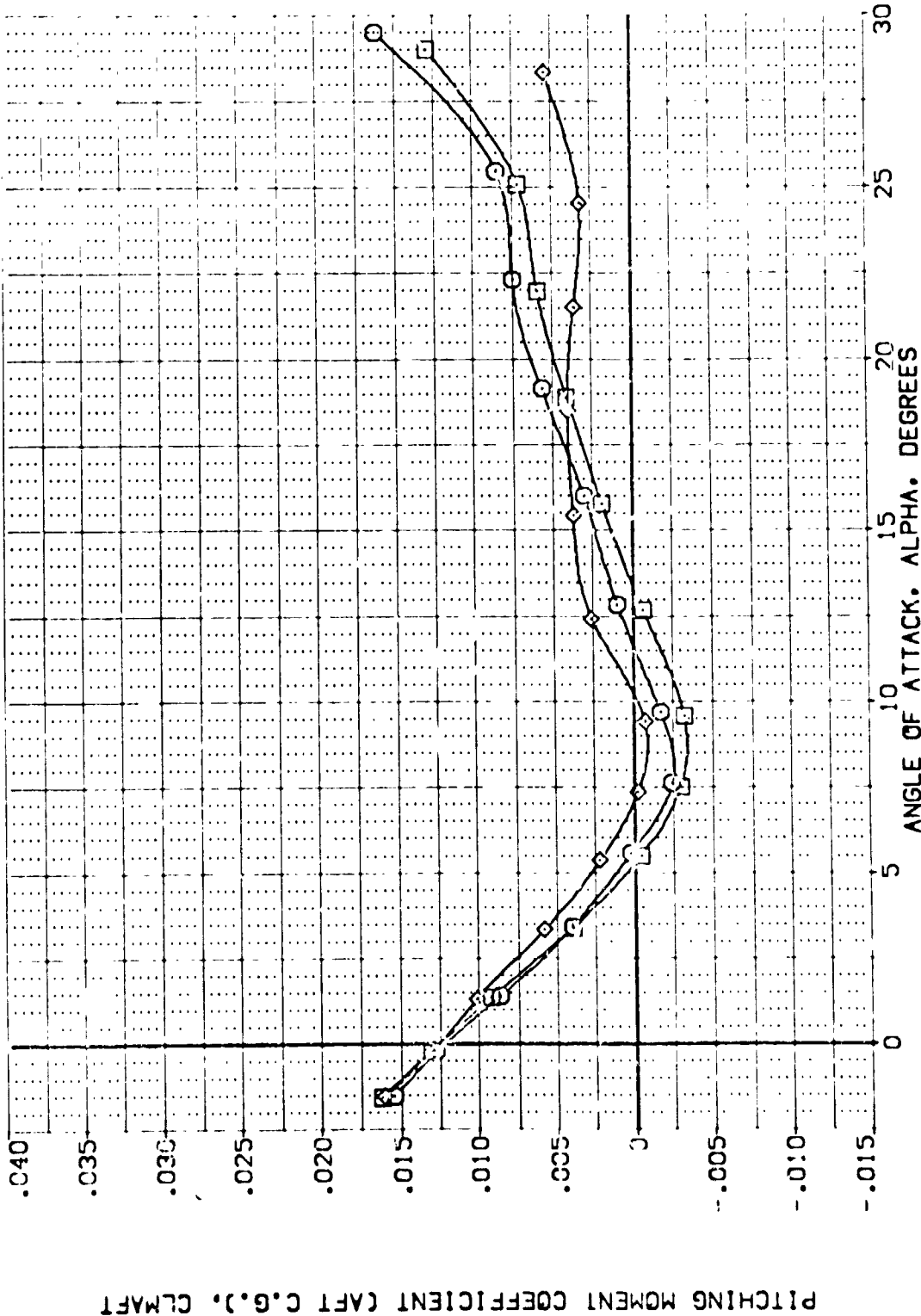


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: (TEKR17), (TEKR16), (TEKR15)

CONFIGURATION DESCRIPTION: ARC 97-747 D4558 B C M F VI, ARC 97-747 D4553 B C M F VI, ARC 97-747 D4558 B C M F VI

REFERENCE INFORMATION: SREF 2.4210 SQ. FT., LREF 14.2440 IN., BREF 29.1034 IN., XREF 32.5010 IN., YREF .8633 IN., ZREF 11.2500 IN., SCALE .0500

R./L: 1.000, 2.750, 1.120

AILERON: .000, .000, .000

BOFLAP: .000, .000, .000

SPDBRK: 55.000, 55.000, 55.000

HIGH RWL, LOW RWL

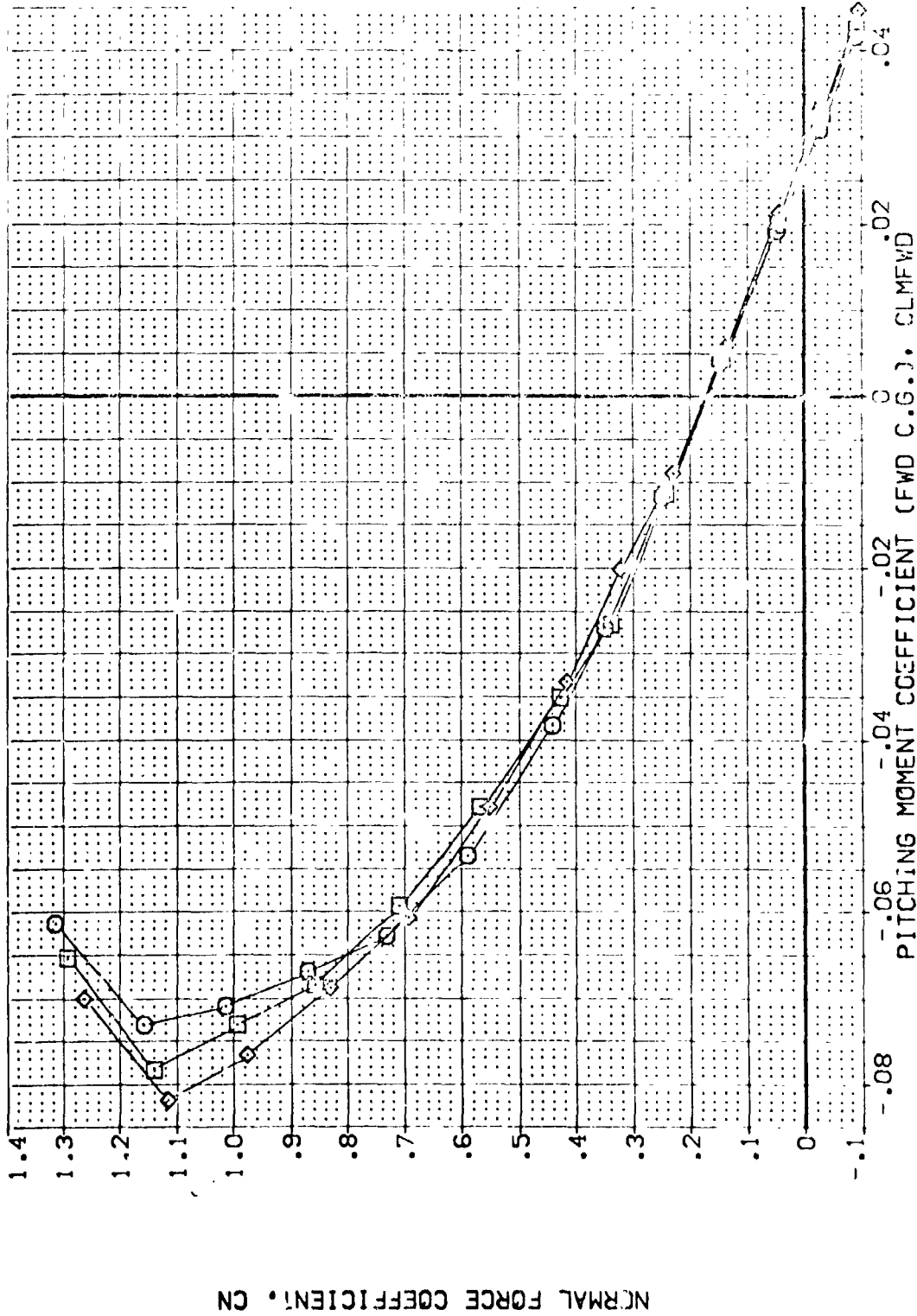


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	HIGH RNAL	LOW RNAL	RNAL	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(LEPR17)	ARC 97-747 CAS33 B C M F V1 V	1.120	1.120	1.120	.000	.000	55.000	2.4210 SC.FT.
(LEPR16)	ARC 97-747 CAS33 B C M F V1 V	1.120	1.120	1.120	.000	.000	55.000	14.2440 IN.
(LEPR15)	ARC 97-747 CAS33 B C M F V1 V	1.120	1.120	1.120	.000	.000	55.000	29.1000 IN.
								32.0000 IN.
								11.2000 IN.
								.0000 SCALE

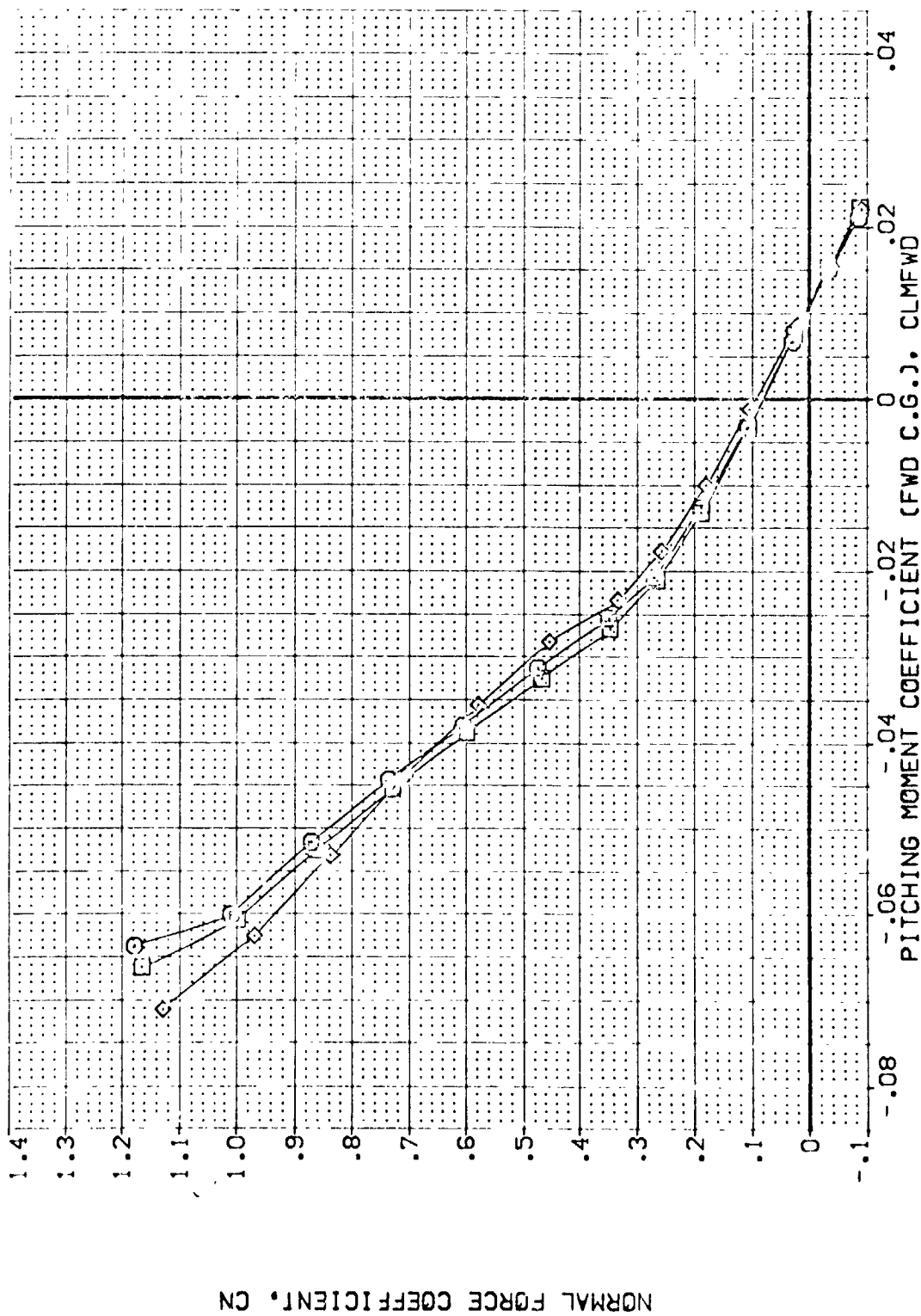


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION SO. FT.

(TEKR17)	ARC 97-747 OAS38 B C M F V I V	SREF	2-4210	IN.
(TEKR16)	ARC 97-747 OAS33 B C M F V I V	LRREF	14-2460	IN.
(TEKR15)	ARC 97-747 OAS33 B C M F V I V	ERREF	28-1057	IN.
		XMPD	32-0310	IN.
		YMCD	0000	IN.
		ZMCD	11-2000	IN.
		SCALE	.0000	SCALE

RVL	A1LRON	BOFLAP	SPOBRK
4.000	.000	.000	55.000
2.750	.000	.000	55.000
1.120	.000	.000	55.000

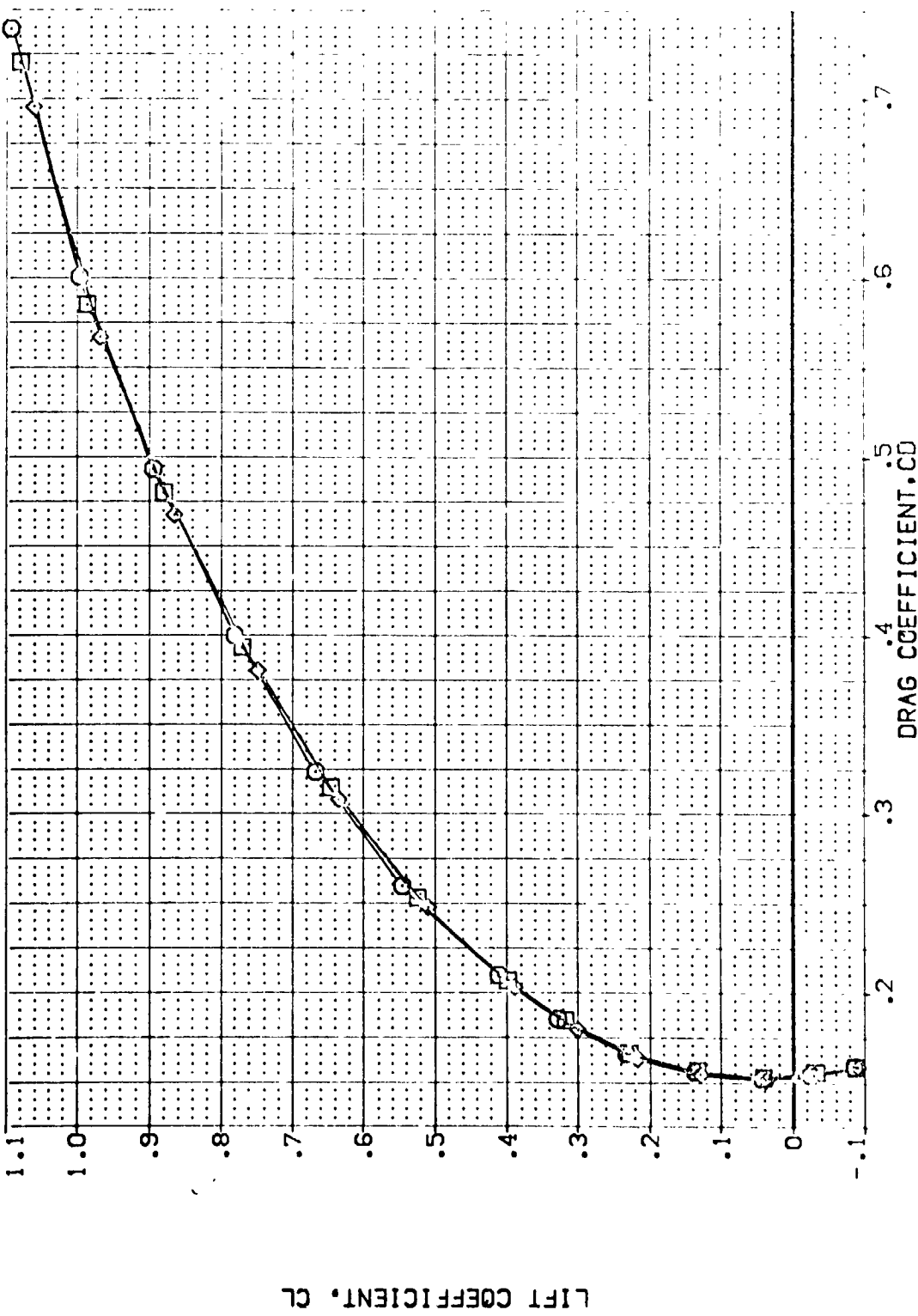


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RNVL	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(TEPR17)	ARC 97-747 CASE3 B C M F VI V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TEPR16)	ARC 97-747 CASE3 B C M F VI V	2.750	.000	.000	55.000	LREF 14.2440 IN.
(TEPR15)	ARC 97-747 CASE3 B C M F VI V	1.120	.000	.000	55.000	REFE 20.1104 IN.
						XREF 32.1500 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

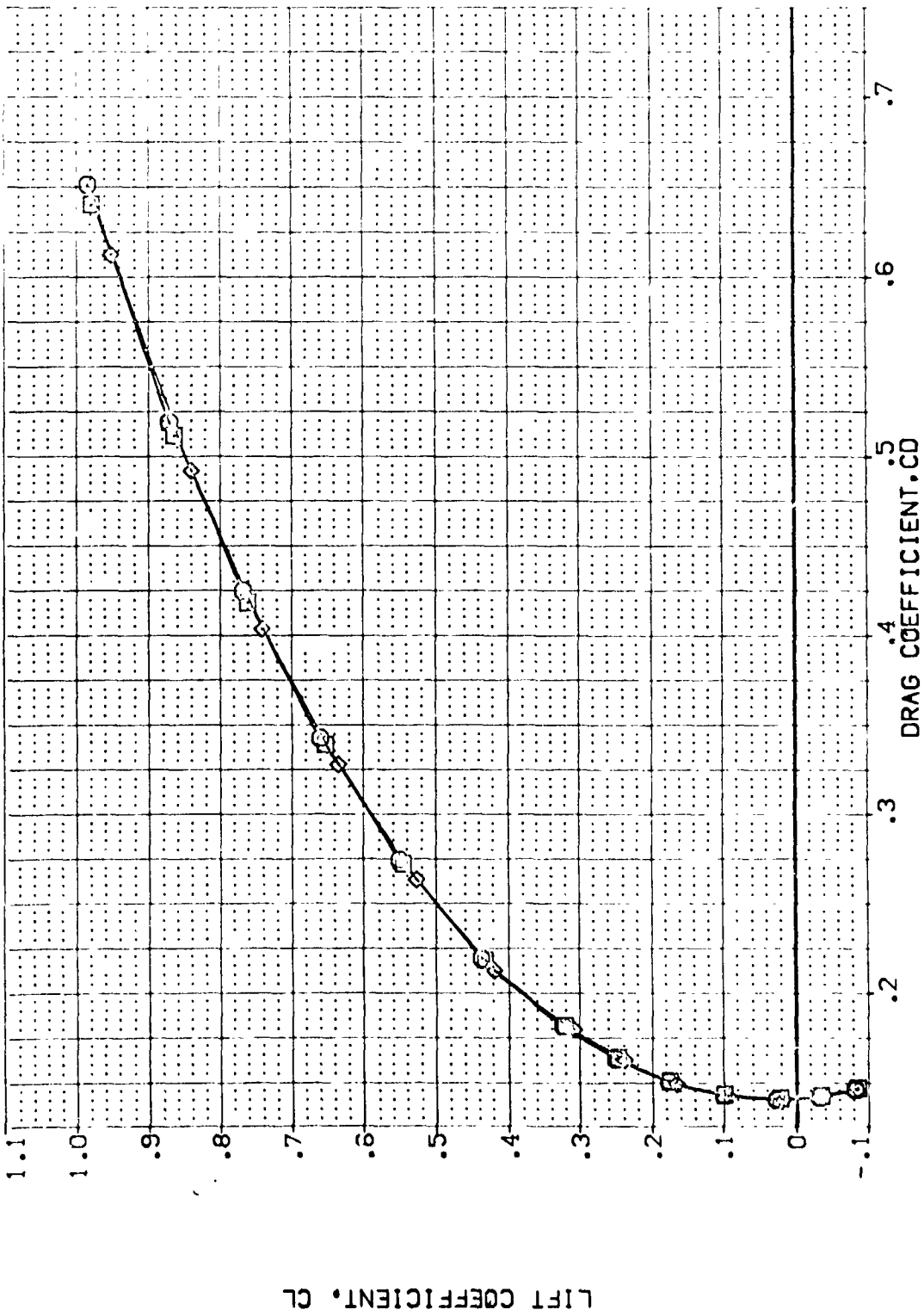


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIRL/RN	BOFLAP	SPDRBK	REFERENCE INFORMATION
(TEKR17)	ARC 97-747 OAS33 B C M F VI V	4.000	.000	.000	55.000	2-4210
(TEKR16)	ARC 97-747 OAS33 B C M F VI V	2.750	.000	.000	55.000	14-2440
(TEKR15)	ARC 97-747 OAS33 B C M F VI V	1.120	.000	.000	55.000	28-1004
						32-5016
						11-2500
						.0000
						SCALE

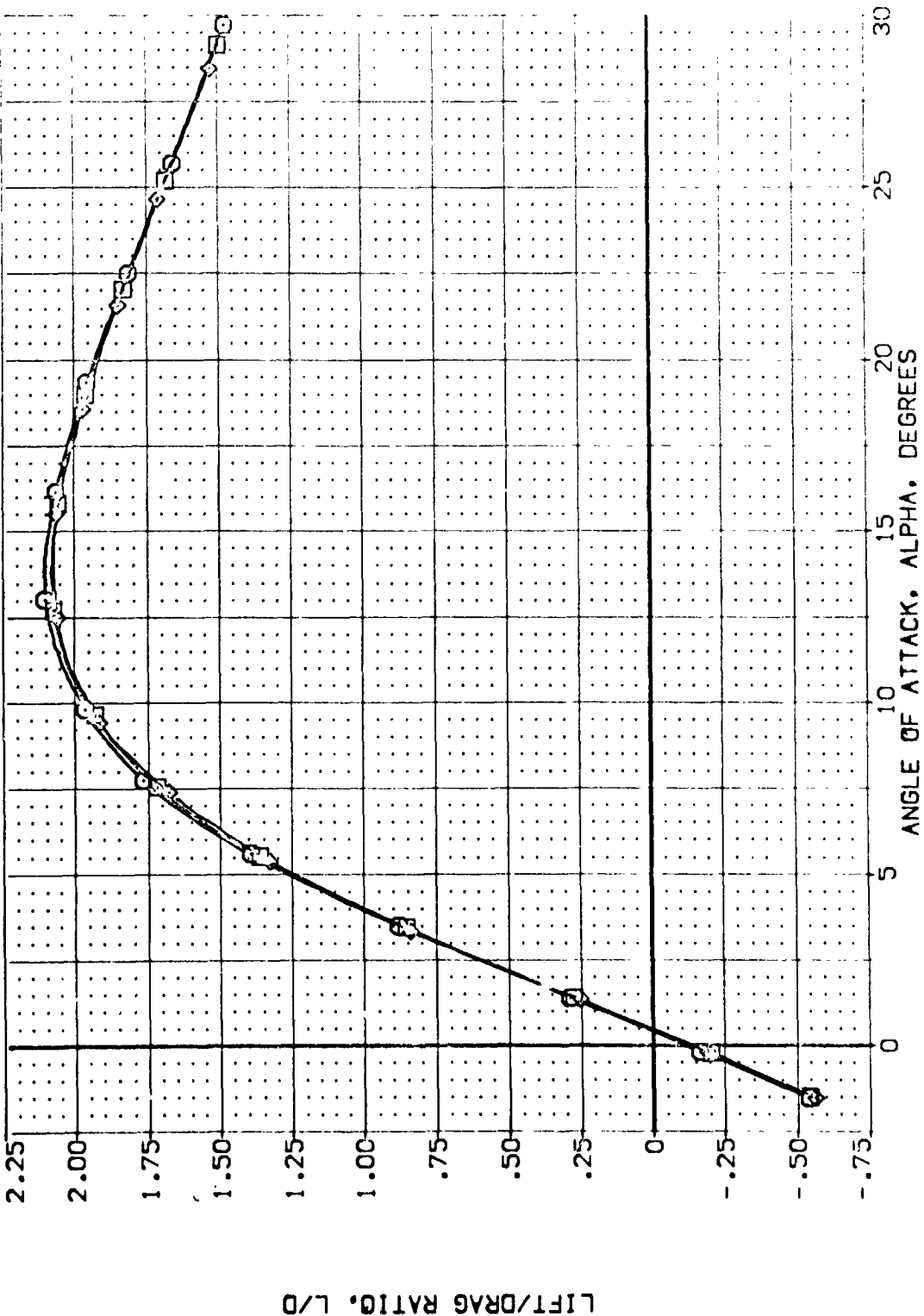


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	AIRL/RN	BDF/LAP	SPDRBK	REFERENCE INFORMATION
{TEKR17}	ARC 97-747 CAS28 B C M F V1 V	1.000	.000	.000	55.000	SREF 2.4210
{TEKR16}	ARC 97-747 CAS23 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2740
{TEKR15}	ARC 97-747 CAS33 B C M F V1 V	1.120	.000	.000	55.000	SREF 29.1004
						XREF 32.5010
						YMTP .0000
						ZMTP .0000
						SCALE .0000
						SO. FT. IN.

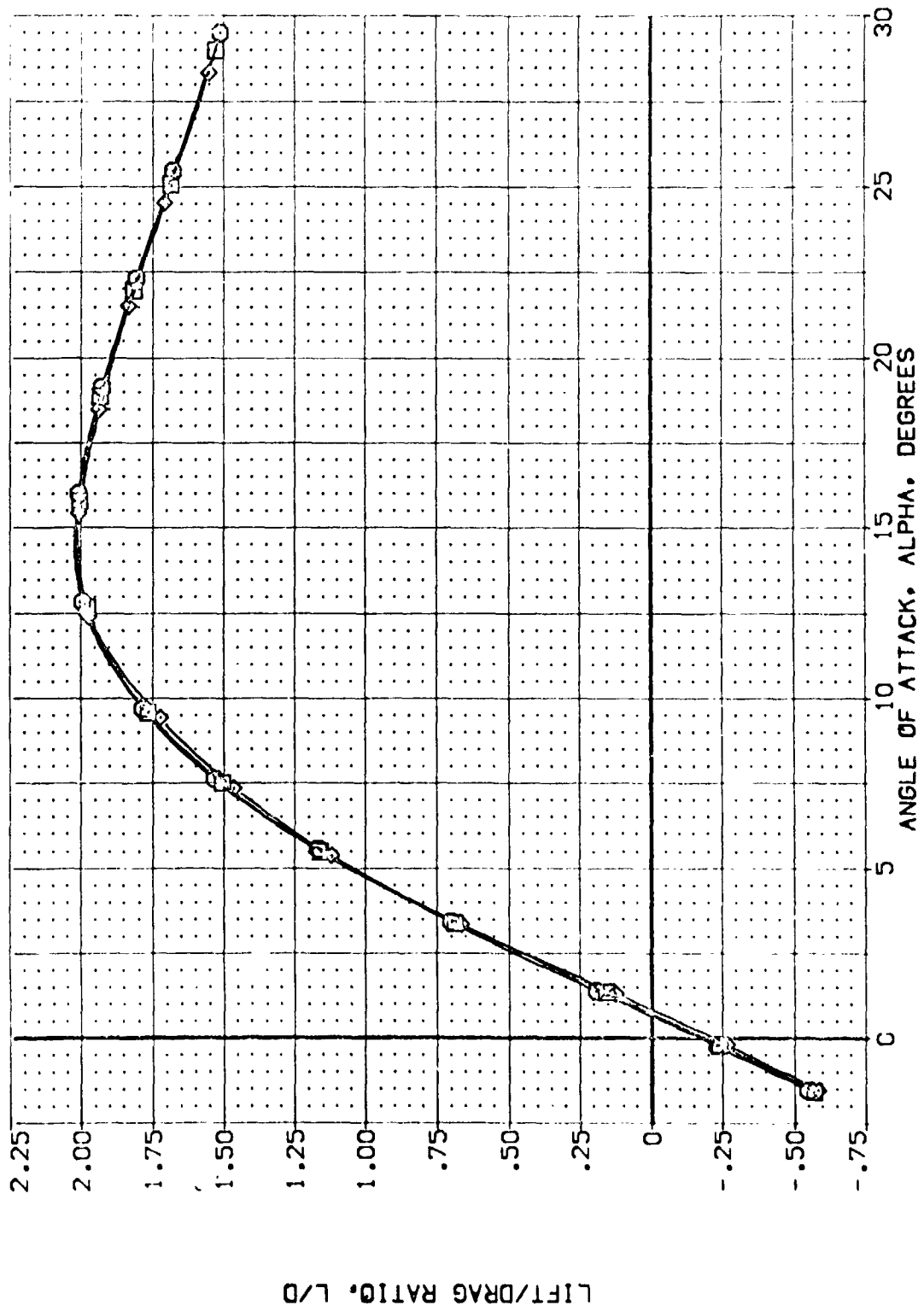


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVL	AIRLON	BDF/LAP	SPOBRK	REFERENCE INFORMATION
{AEKR17}	ARC 97-747 OAS33 B C M F V1 V	4.000	.000	.000	55.000	SREF 2-4210
{AEKR16}	ARC 97-747 OAS33 B C M F V1 V	2.750	.000	.000	55.000	LREF 14-2440
{AEKR15}	ARC 97-747 OAS33 B C M F V1 V	1.120	.000	.000	55.000	BREF 20-1004
						XMRP 32-1010
						YMRP 0-0000
						ZMRP 11-2600
						SCALE .0000
						SCALE

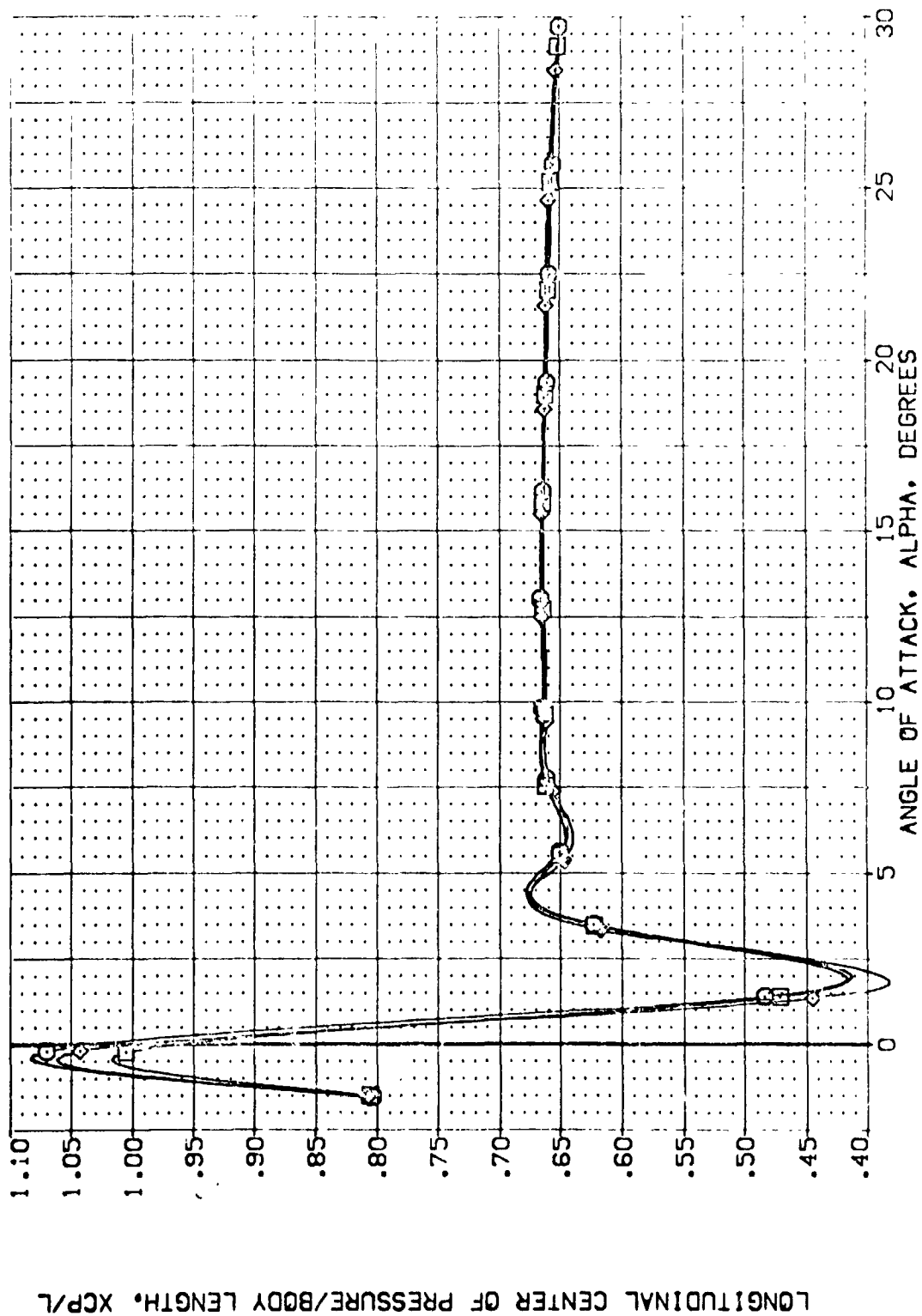


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

{A}MAC+ = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RVAL	ALIGN	BOFLAP	SPD2BK	REFERENCE INFORMATION
(AEKR17)	ARC 97-747 CASE33 B C M F V1 V	4.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(AEKR16)	ARC 97-747 CASE33 B C M F V1 V	2.750	.000	.000	55.000	LREF 14.2140 IN.
(AEKR15)	ARC 97-747 CASE33 B C M F V1 V	1.120	.000	.000	55.000	EREF 20.1004 IN.
						XMAP 32.3010 IN.
						YMAP 11.0000 IN.
						ZMAP 11.0000 IN.
						SCALE .0000

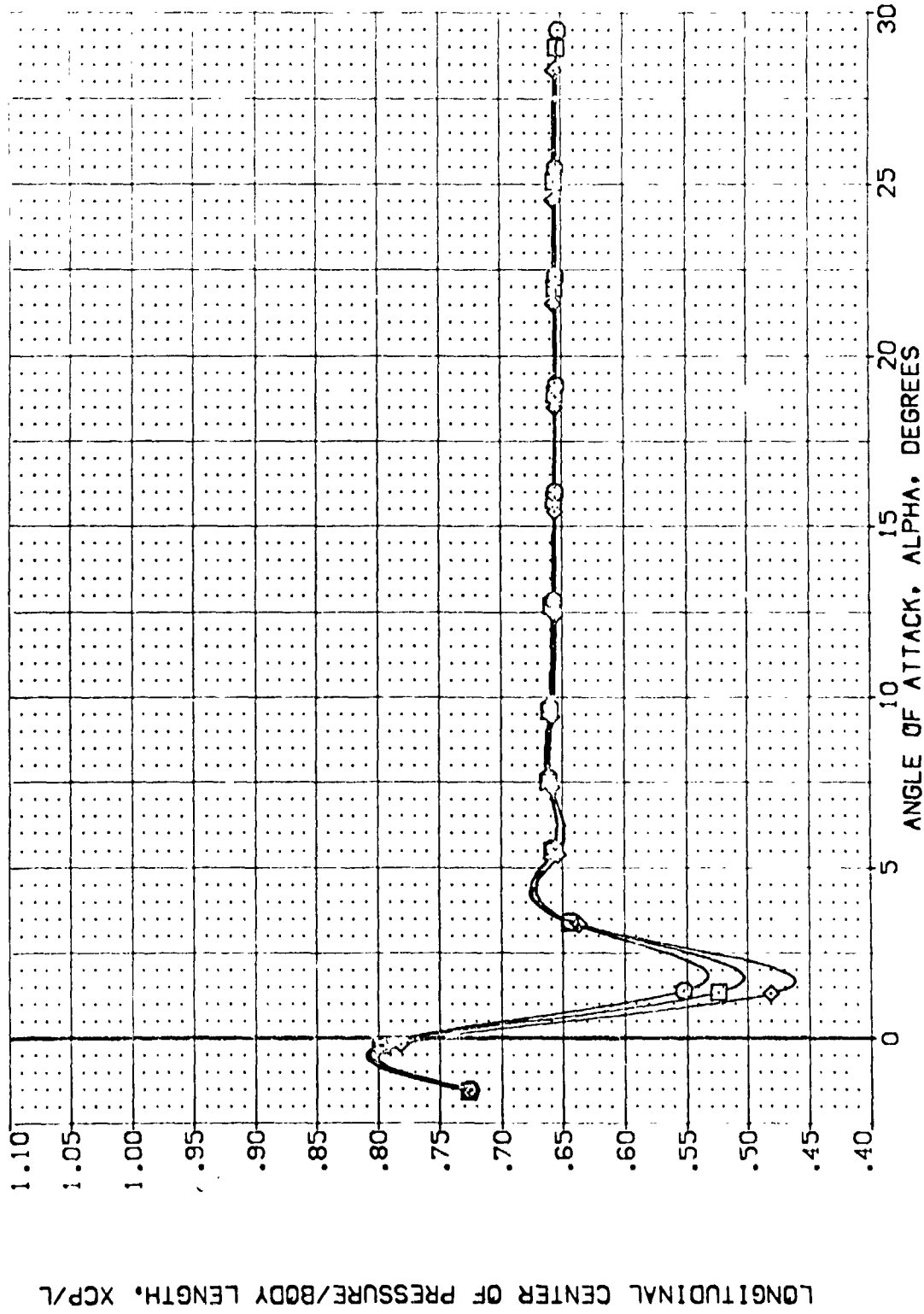


FIG. 5 LONGITUDINAL REYNOLDS NUMBER EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: (TEM028) (TEM016)

CONFIGURATION DESCRIPTION: ARC 97-747 BAS38 B C H F V2 V N04, RVAL

ARC 97-747 BAS38 B C H F V1 V N04, RVAL

ELEVON: .000
 AIRLON: .000
 BOFLAP: .000
 SPOBRK: 55.000

REFERENCE INFORMATION:
 SREF: 2.4210 50. FT.
 LREF: 14.2440 IN.
 GREF: 28.1004 IN.
 XMRP: 22.1018 IN.
 YMRP: 11.2500 IN.
 ZMRP: 10.0000 IN.
 SCALE: .0000

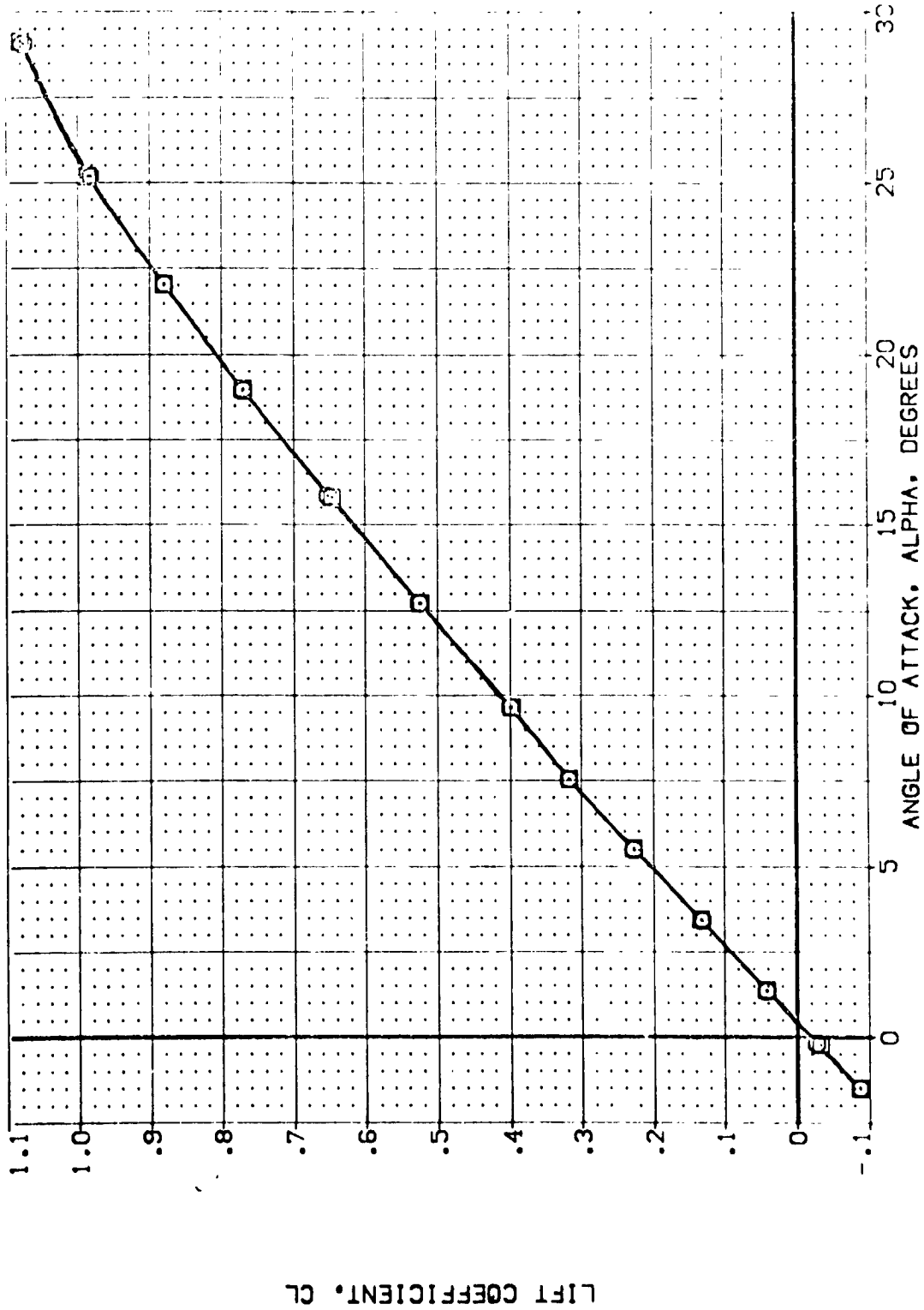


FIG. 6 WING MATRIX

(AJMACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
ARC 97-747	B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
ARC 97-747	B C M F V1 V	.000	.000	.000	55.000	LREF 14.2640 IN.
	NOM. RN/L					BREF 20.1001 IN.
	NOM. RN/L					XMPP 32.5310 IN.
						ZMPP 1.0000 IN.
						SCALE 11.4000 IN. SCALE

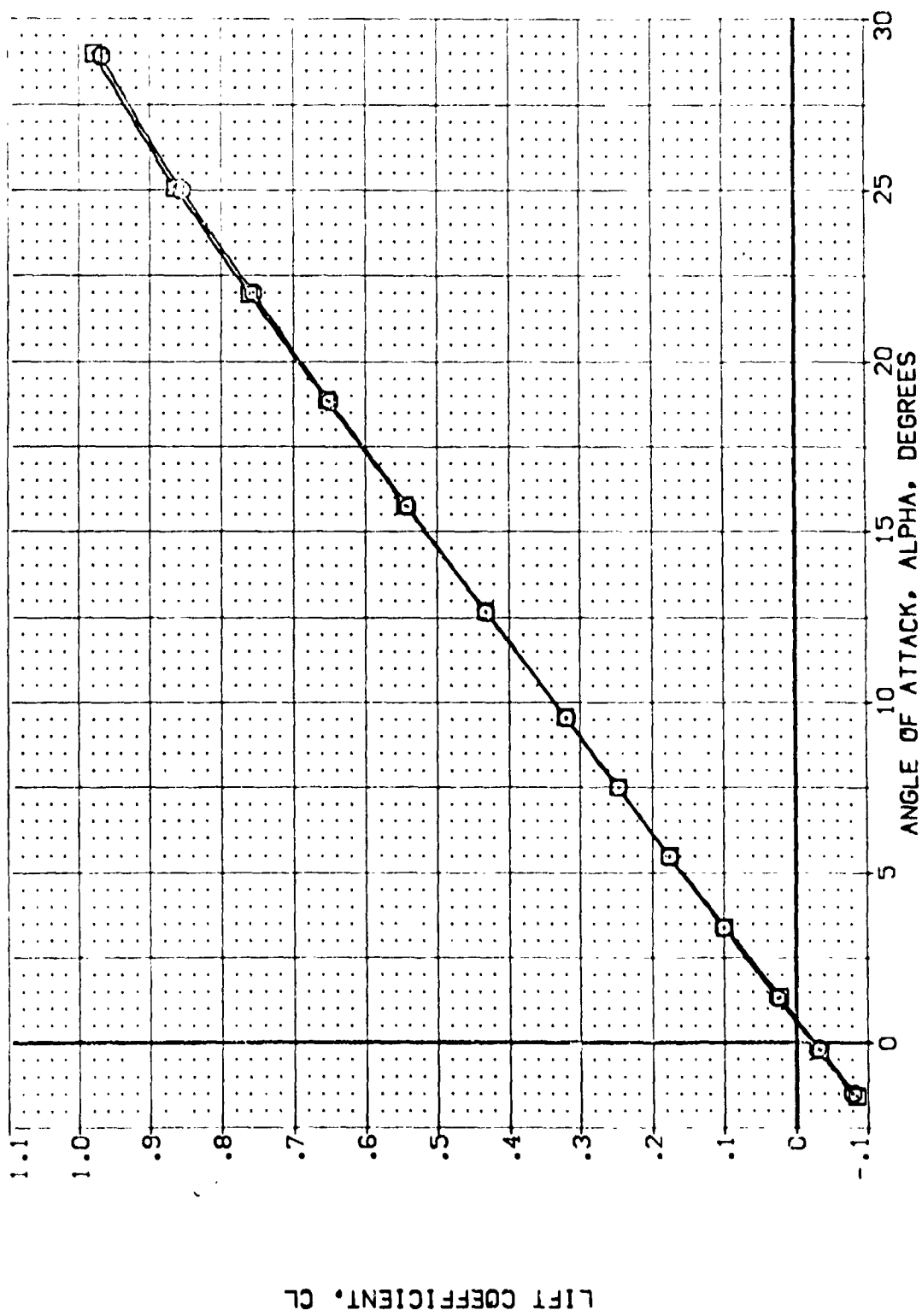


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TK028) ARC 57-747 DAS38 B C M F V2 V NOM. RWL
 (TK016) ARC 57-747 DAS38 B C M F V1 V NOM. RWL

ELEVON AILTRON BOFLAP SPOBRK
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2460 IN.
 BRPREF 28.1000 IN.
 XMRP 32.5010 IN.
 YMRP 5.0000 IN.
 ZMRP 11.2500 IN.
 SCALE .00000 SCALE

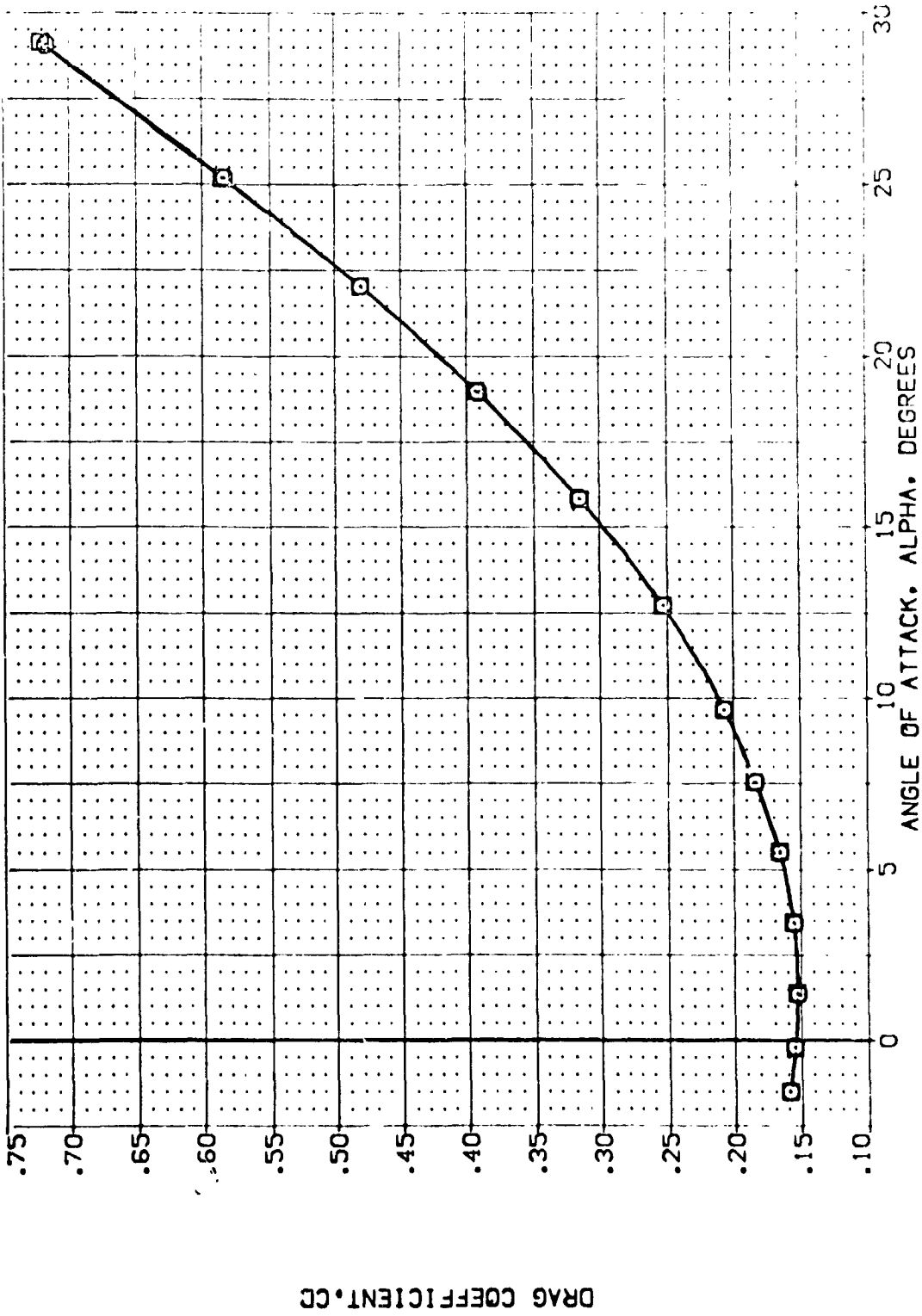


FIG. 6 WING MATRIX
 (AJMACH = 1.60)

DATA SET SYMBOL: (1) **Q** CONFIGURATION DESCRIPTION: ARC 97-747 B A S 3 B C M F V 2 V NOM: RVAL
 (1) **Q** ARC 97-747 C A S 3 B C M F V 1 V NOM: RVAL

ELEVON: .000 AILERON: .000 BOFLAP: .000 SPOBRK: 55.000
 .000 .000 .000 55.000
 .000 .000 .000 55.000
 REFERENCE INFORMATION: SREF: 2.4210 SQ. FT.:
 LREF: 14.2340 IN.:
 BRREF: 52.1100 IN.:
 XMSP: 11.0000 IN.:
 YMSP: 11.0000 IN.:
 ZMSP: 11.0000 IN.:
 SCALE: .0000

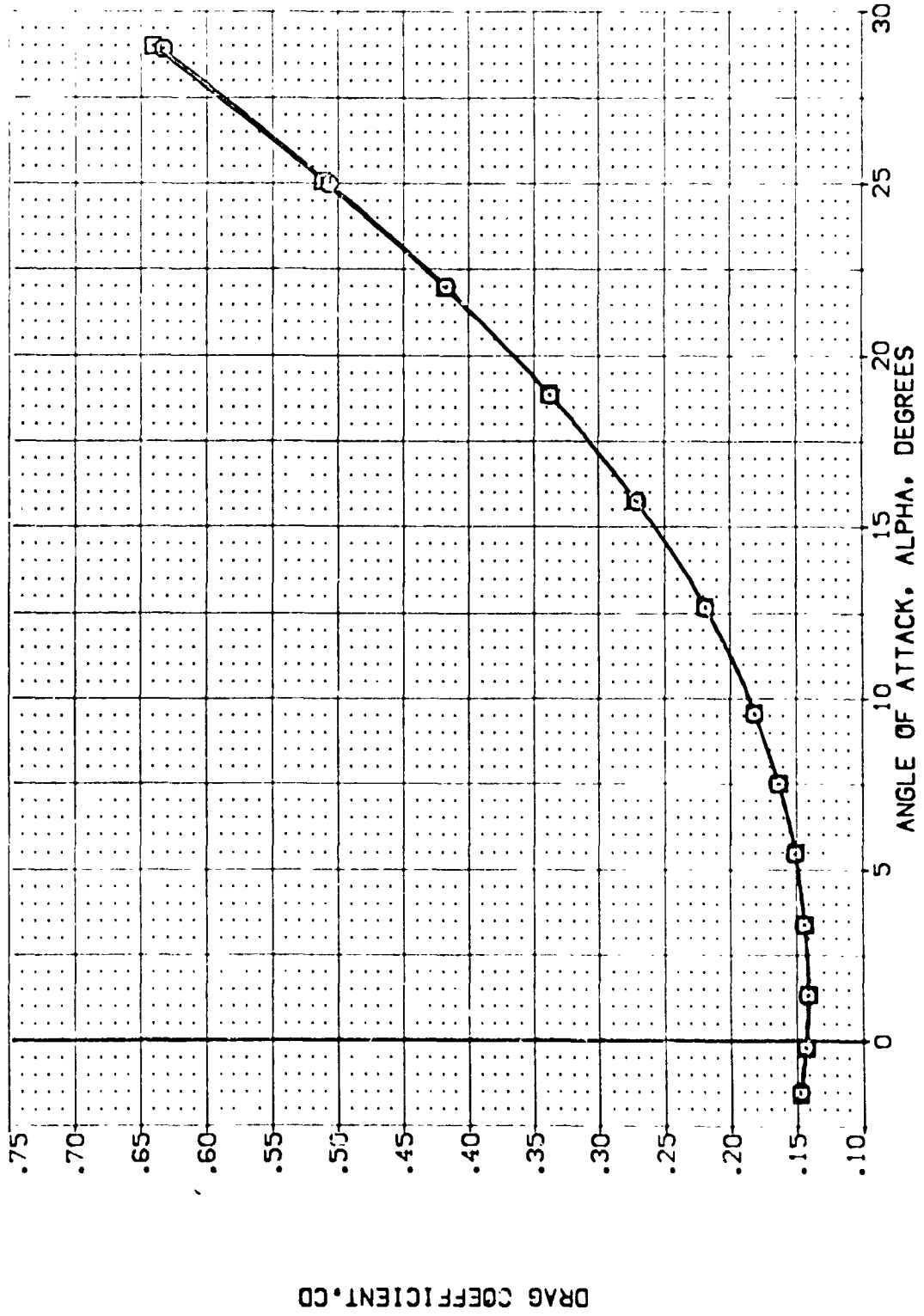


FIG. 6 WING MATRIX

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOE LIFT	SPDRBK	REFERENCE INFORMATION
(TERMO28)	ARC 97-747 BASSB B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210
(TERMO16)	ARC 97-747 BASSB B C M F V1 V	.000	.000	.000	55.000	LREF 14.2340
						BREF 28.1000
						XMAP 92.0000
						YMAP 0.0000
						ZMAP 0.0000
						SCALE 11.0000
						SCALE

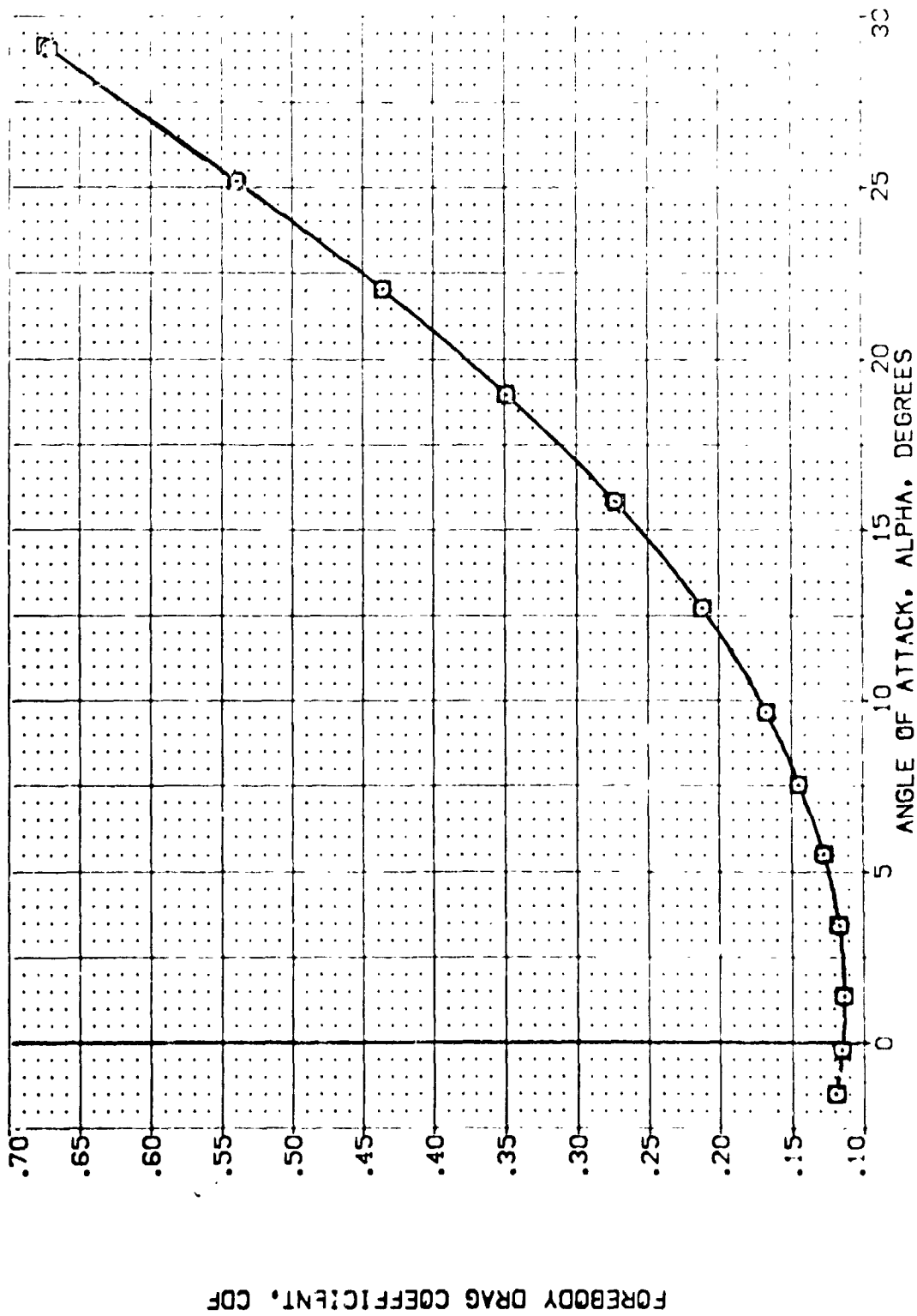


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	BDF LAP	SPOCK	REFERENCE INFORMATION
(TAK000)	APC 97-747 C/S23 B C M F V2 V	.000	.000	55.000	2.4210 SQ. FT.
(EPG16)	APC 97-747 C/S23 B C M F V1 V	.000	.000	55.000	14.1740 IN.
					29.1000 IN.
					32.0000 IN.
					7.0000 IN.
					11.2000 IN.
					.0000 SCALE

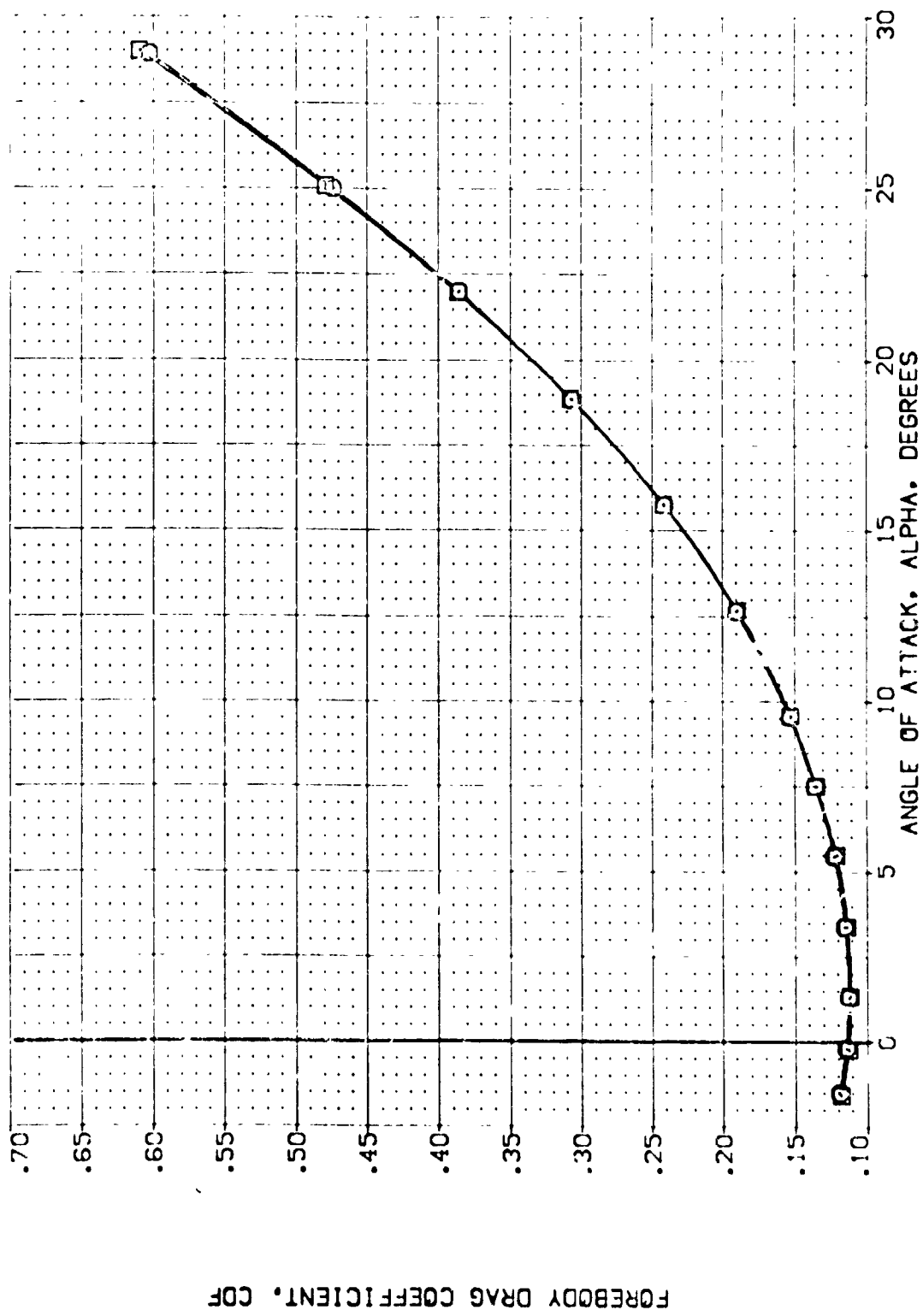


FIG. 6 WING MATRIX

(B) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TEK028) ARC 97-747 CAS38 B C M F V2 V NOM. PNVL
 (TEK016) ARC 97-747 CAS38 B C M F V1 V NOM. RNVL

ELEVON AILRON BOFLAP SPOBRK
 .000 .000 .000 55.000
 .000 .000 .000 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LRCF 14.2440 IN.
 BOFF 20.1000 IN.
 VMAP 32.2010 IN.
 VMAP 0.000 IN.
 ZMRP 11.2500 IN.
 SCALE 11.0000

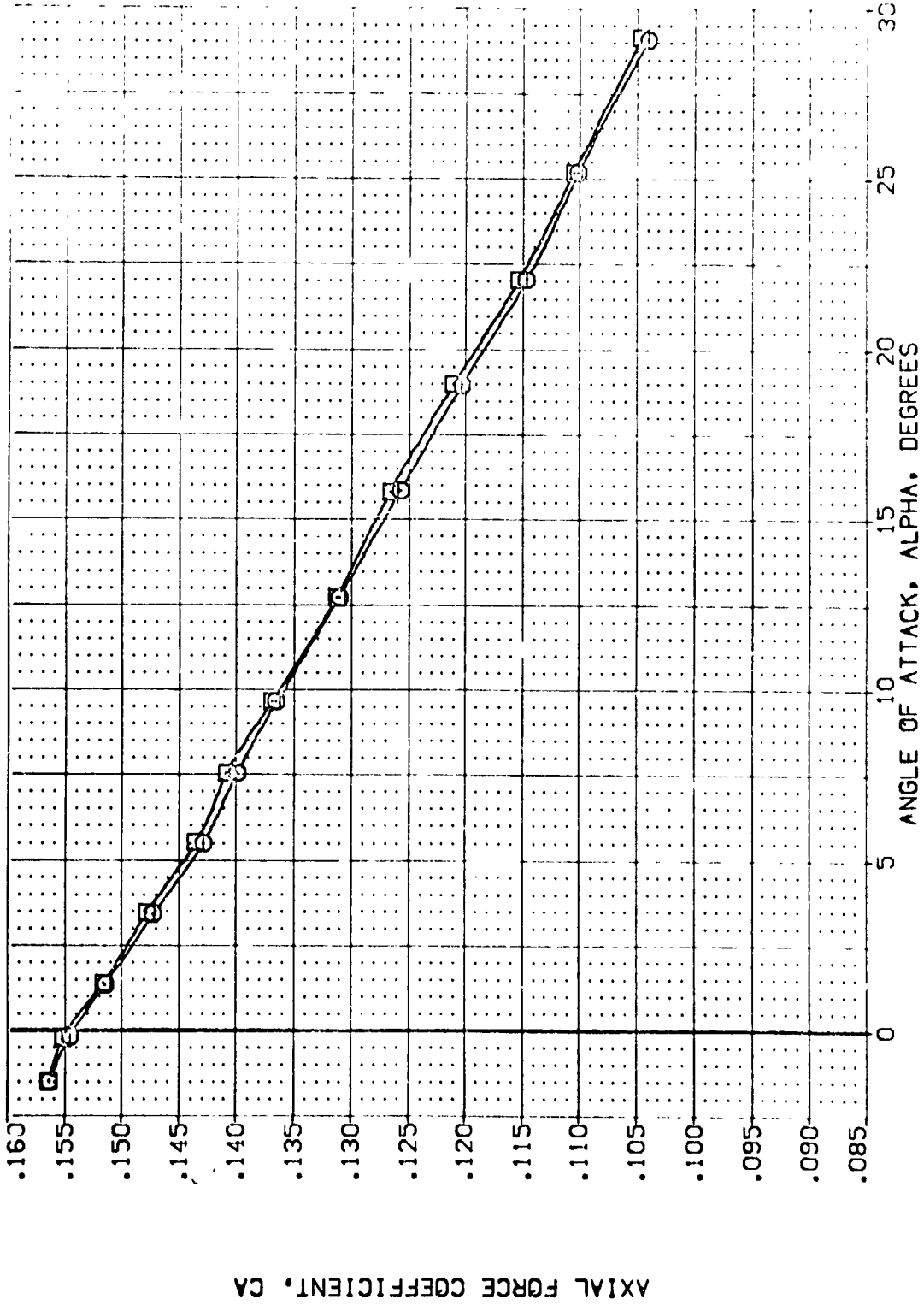


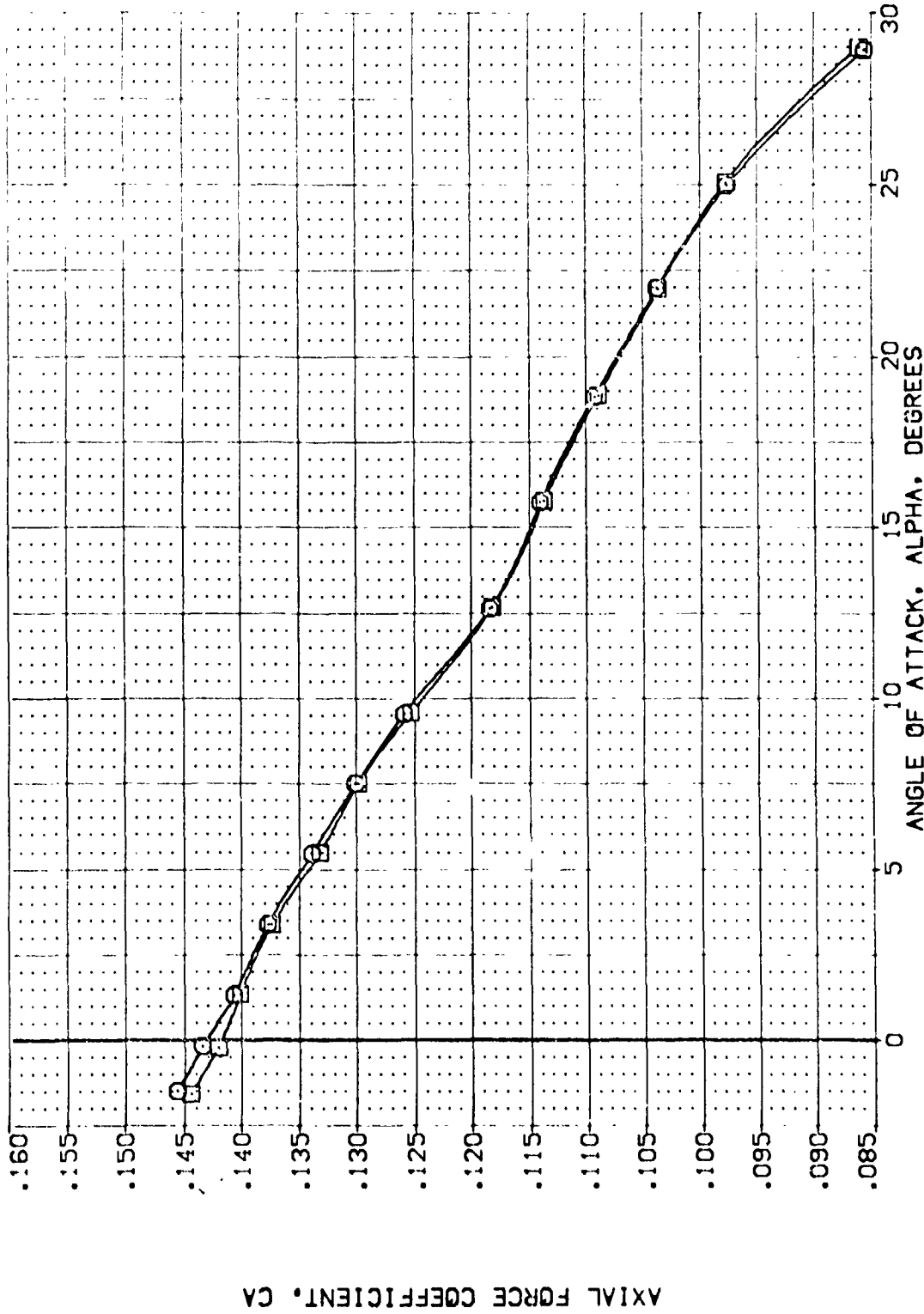
FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TEK028) □ ARC 97-747 CA538 B C M F #2 V NOM: RVUL
 (TEK016) □ ARC 97-747 CA533 B C M F #1 V NOM: RVUL

ELEVATION AILTRON BOFLAP SPODBRK
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SREF 2.4210 SC.FT.
 LREF 14.7410 IN.
 BREF 23.1004 IN.
 XREF 32.5010 IN.
 YREF 5.000 IN.
 ZREF 11.2600 IN.
 SCALE .10000 SCALE



AXIAL FORCE COEFFICIENT, CA

FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL (TEK028) (TEK016)

CONFIGURATION DESCRIPTION
 ARC 97-747 B A S C B B C M F V2 V
 ARC 97-747 B A S C B B C M F V1 V

NOM. RV/L
 NOM. RV/L

ELEVATION .000
 AIRLIFT .000
 BDF LAP .000

SPODBK 55.000
 55.000

REFERENCE INFORMATION
 SREF 2.4210 50. FT.
 LREF 14.2440 IN.
 BSREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0500 SCALE

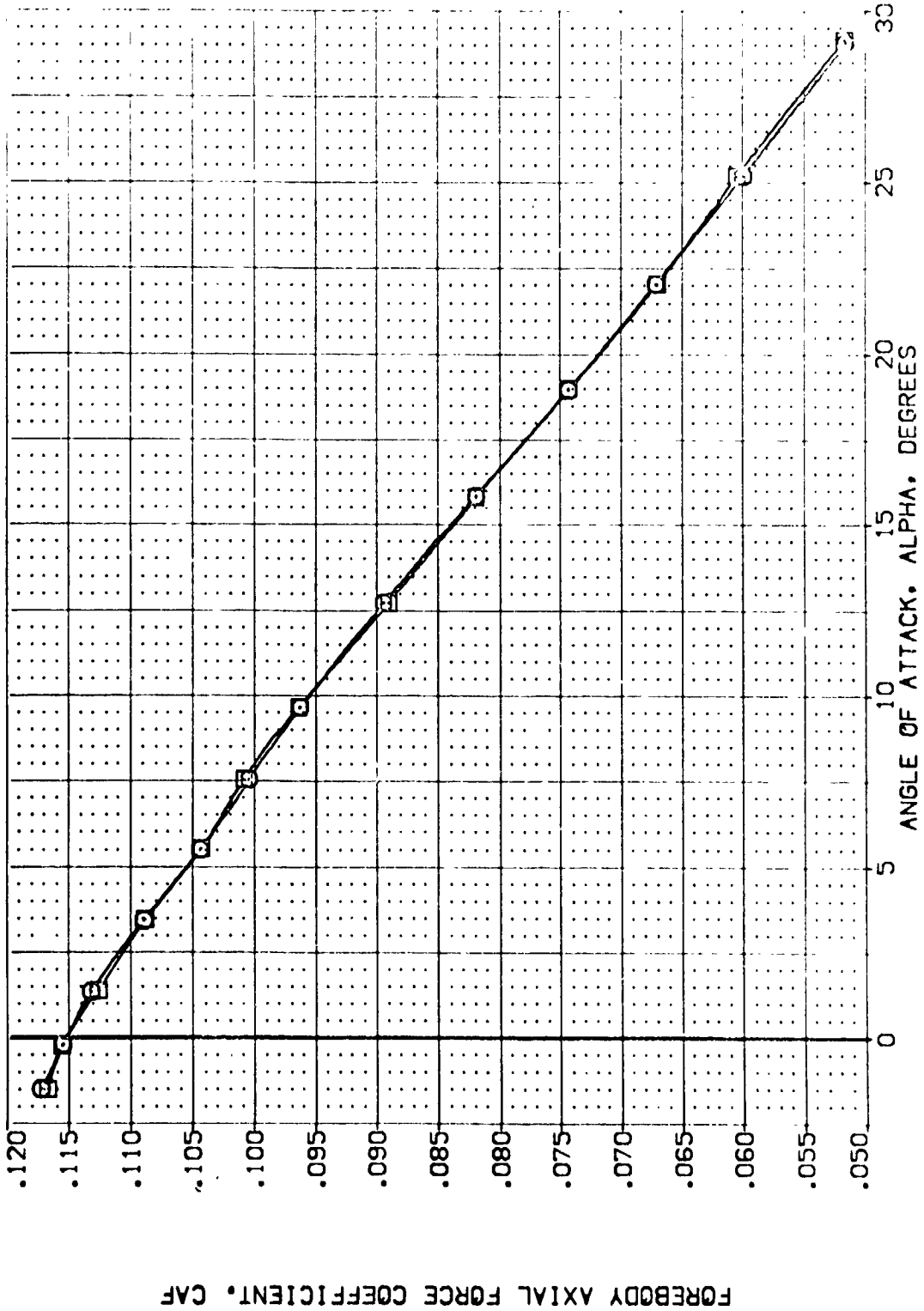


FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL: CO.F. (URATIC) DESCRIPTION
 [TEK023] ARC 97-747 04.533 B C M F V2 V NOM. RV/L
 [TEK016] ARC 97-747 04.533 B C M F V1 V NOM. RV/L

ELEVATION: .000
 AT/LR/N: .000
 BOF/LAP: .000
 SPDRBK: 55.000
 SREF: 2.4210 50.FT.
 LR/CF: 14.2740 IN.
 BR/CF: 23.1004 IN.
 YMRP: 32.5010 IN.
 ZMRP: .0000 IN.
 SCALE: 11.2500 IN.
 SCALE: .0000

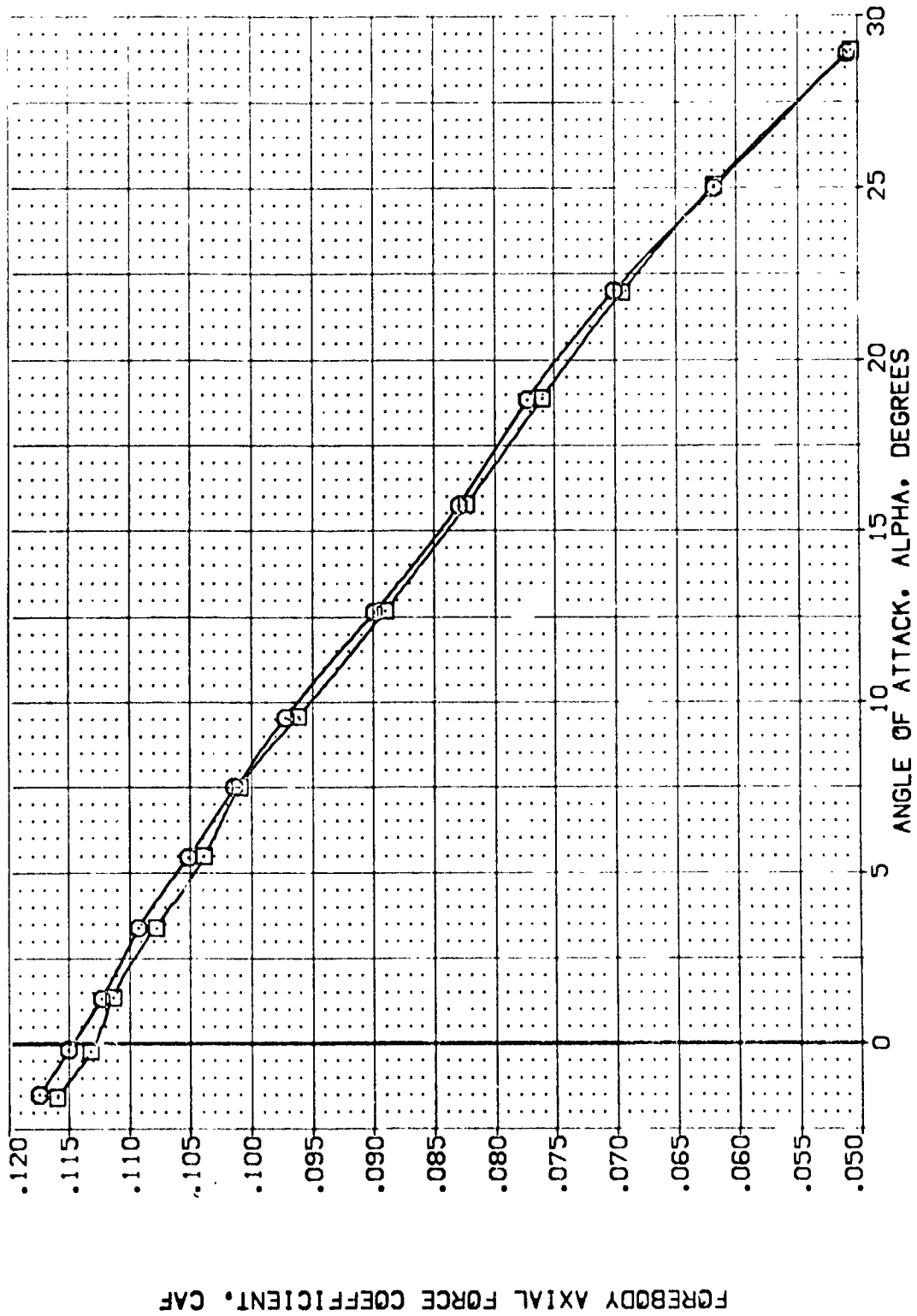


FIG. 6 WING MATRIX
 (B)MACH = 2.00

BASE AXIAL FORCE COEFFICIENT, CAB

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ (TK0028)	ARC 97-747 0A529 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{ (TK0016)	ARC 97-747 0A553 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						EREF 20.1034 IN.
						XMRP 32.0310 IN.
						YMRP 10.0000 IN.
						ZMRP 11.2600 IN.
						SCALE .0000

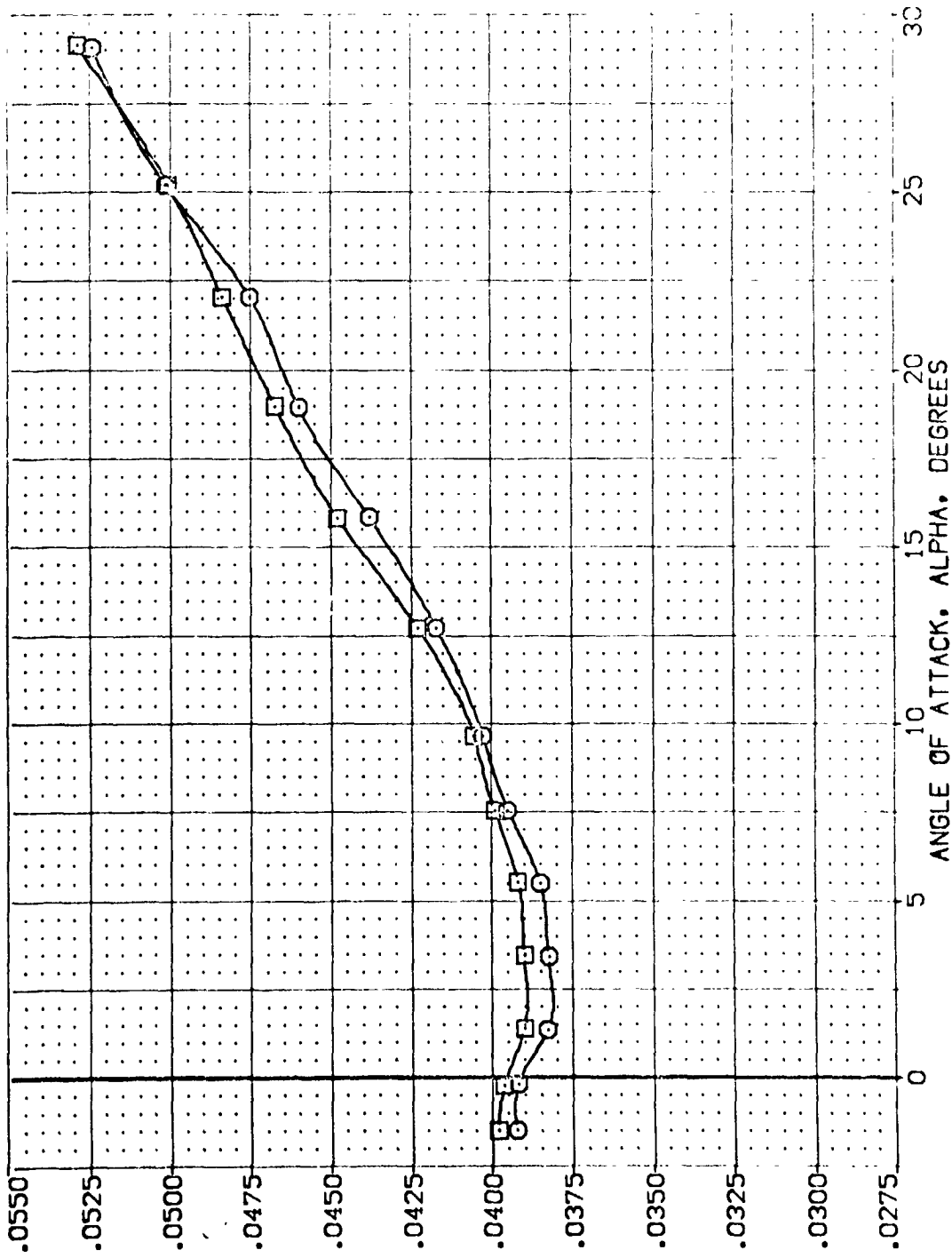


FIG. 6 WING MATRIX

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOORK	REFERENCE INFORMATION
(TK028)	ARC 97-747 DA533 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
(TR016)	ARC 97-747 DA503 B C M F V1 V	.000	.000	.000	55.000	LCDF 14.2440 IN.
						UDDF 20.1034 IN.
						YMPD 32.3310 IN.
						ZMPD 11.2500 IN.
						SCALE .0000

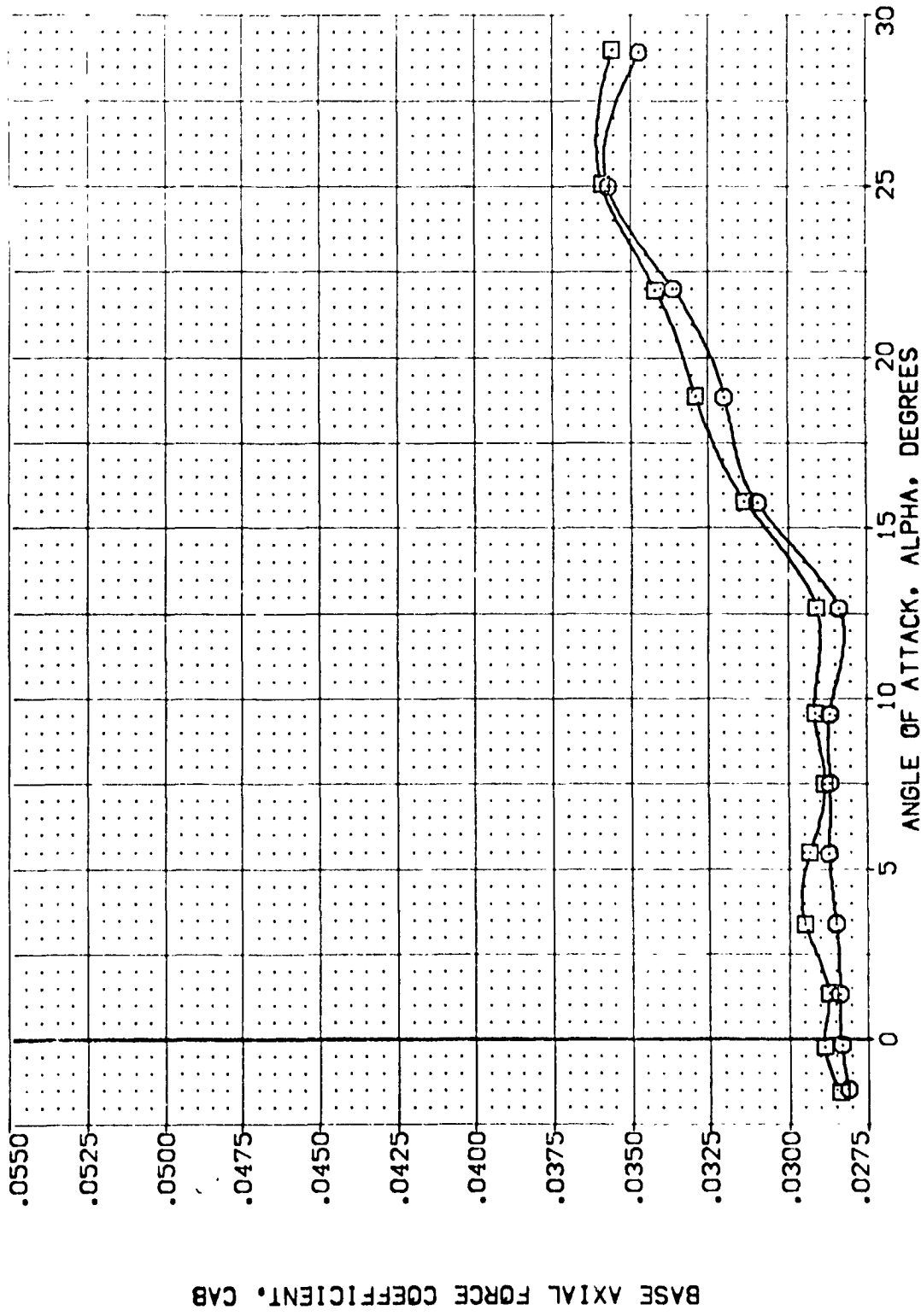


FIG. 6 WING MATRIX
(B)MACH = 2.00

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBOL: []
 [] (TERG.16)
 CONFIGURATION DESCRIPTION:
 ARC 97-747 B A S 3 B B C M F V 2 V NOM: RNVL
 ARC 97-747 B A S 3 B B C M F V 1 V NOM: RNVL

ELEVON: .000
 AIRLON: .000
 BDFLAP: .000
 SPOBRK: 55.000
 55.000
 55.000

REFERENCE INFORMATION:
 SREF: 2.4210 SQ. FT.
 LREF: 14.2440 IN.
 EXREF: 28.1004 IN.
 XMREF: 32.1004 IN.
 YMREF: 0.0000 IN.
 ZMREF: 11.7500 IN.
 SCALE: .0000

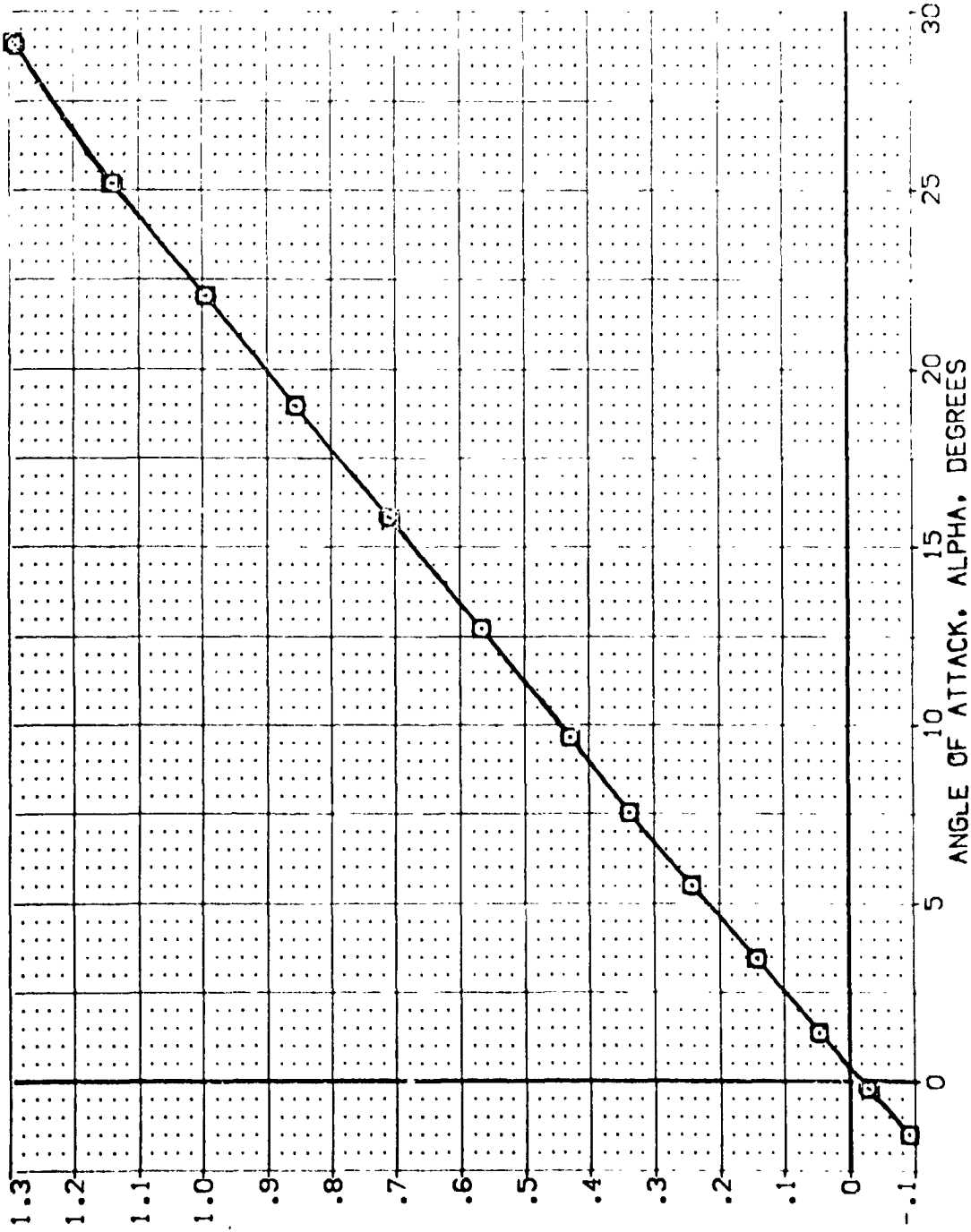


FIG. 6 WING MATRIX

(M)MACH = 1.60

DATA SET SYMBOL: (TEK028) (TEK016) Q

CONFIGURATION DESCRIPTION
ARC 97-747 0A529 B C M F V/2 V
ARC 97-747 0A533 B C M F V/1 V

NOM. RV/L
NOM. RV/L

ELEVATION: .000
AHLRON: .000
BOFLAP: .000
SPDRK: 55.000
55.000

REFERENCE INFORMATION
SREF: 2.4210 SQ. FT.
LREF: 14.2640 IN.
DREF: 28.1004 IN.
XMRP: 52.4210 IN.
YMRP: 11.2600 IN.
ZMRP: .0300 IN.
SCALE

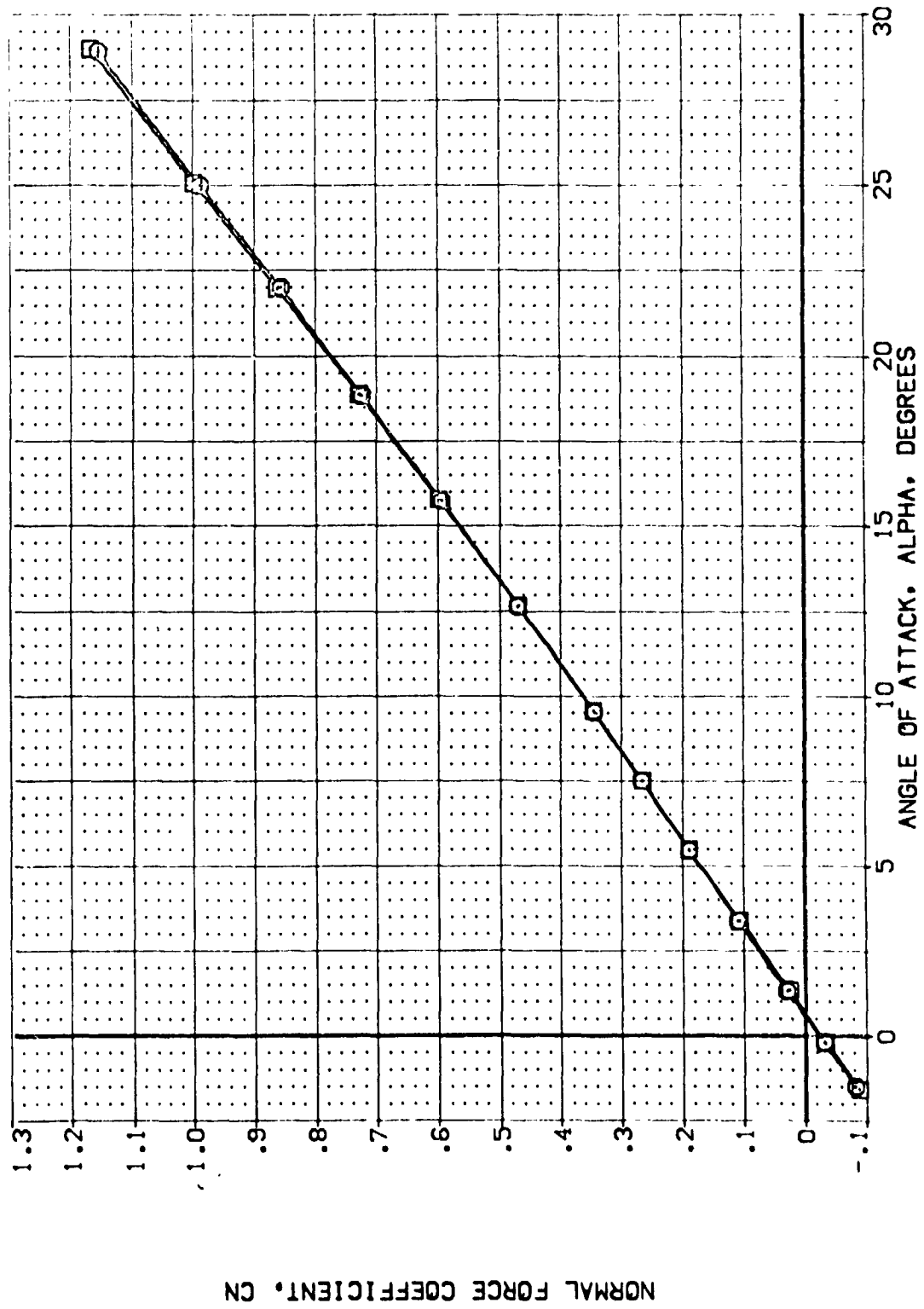


FIG. 6 WING MATRIX
(B)MACH = 2.00

DATA SET SYMBOL: []
 [] (TER028)
 [] (TER016)

CONFIGURATION DESCRIPTION
 ARC 97-747 DAS38 B C M F V2 V NOM. RWL
 ARC 97-747 DAS38 B C M F V1 V NOM. RWL

ELEVON ATTORN BDFLAP SPOBRK
 .000 .000 .000
 .000 .000 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2440 IN.
 YMRP 28.1004 IN.
 ZMRP 32.5010 IN.
 SCALE 11.2500 IN.
 .0000 SCALE

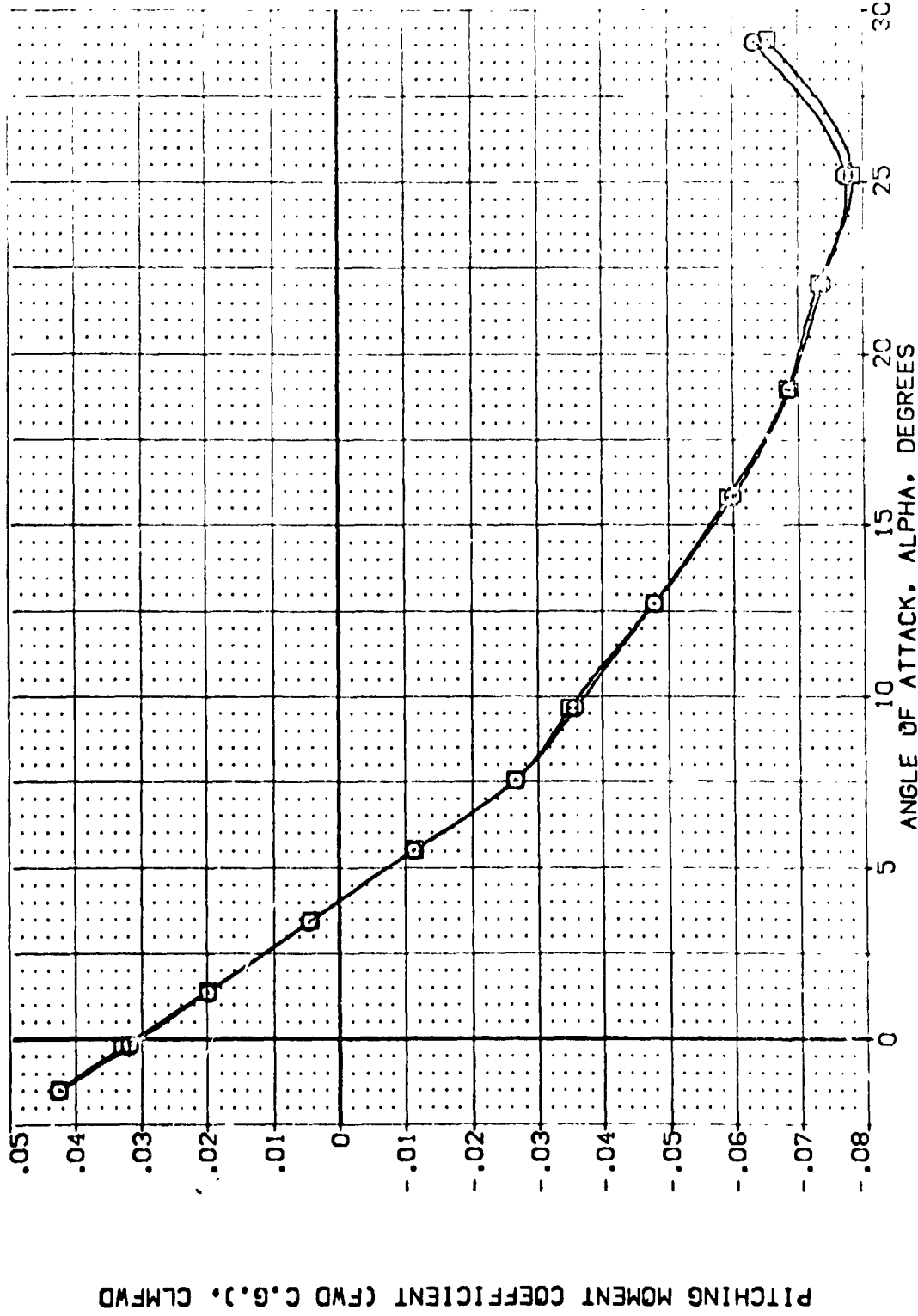


FIG. 6 WING MATRIX
 (A)MACH = 1.60

DATA SET SYMBOL: []
 CONFIGURATION DESCRIPTION: ARC 97-747 OAS3B B C M F V2 V NOM: RVAL
 ARC 97-747 OAS3B B C M F V1 V NOM: RVAL

ELEVATION: .000
 AILTON: .000
 BOFLAP: .000
 SPOBRK: 55.000

REFERENCE INFORMATION: SREF: 2.4210 SQ.FT.
 LREF: 14.2440 IN.
 XMAP: 28.1004 IN.
 YMAP: 32.3310 IN.
 ZMAP: .0000 IN.
 SCALE: 11.2000

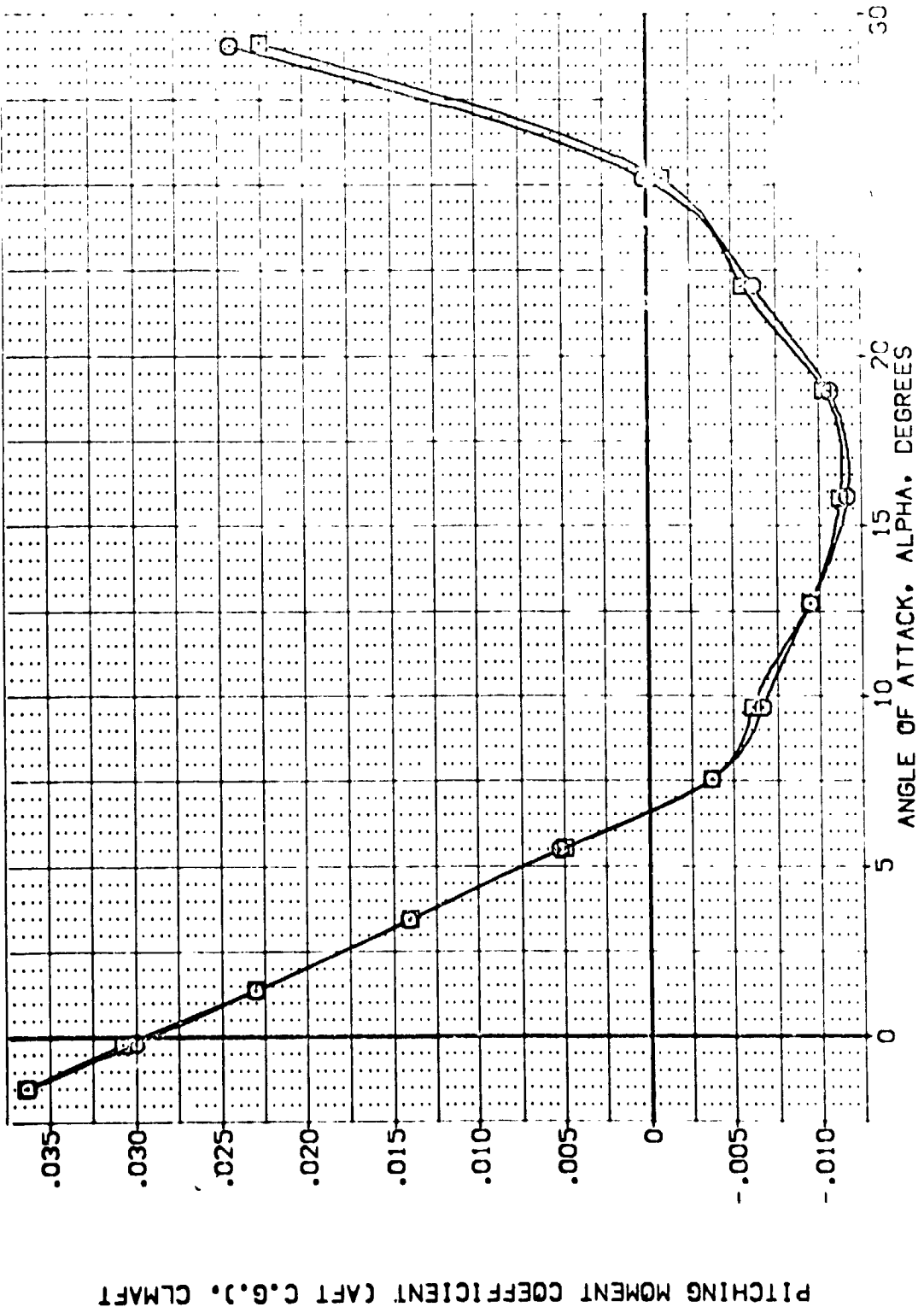


FIG. 6 WING MATRIX
 (A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(TEK028)	B C M F V2 V	.000	.000	.000	55.000	2.4210 SQ. FT.
(TEK016)	ARC 97-747 24538 B C M F V1 V	.000	.000	.000	55.000	14.2500 IN.
	ARC 97-747 24533 B C M F V1 V					28.0004 IN.
						27.0010 IN.
						1.0000 IN.
						1.0000 IN.
						SCALE

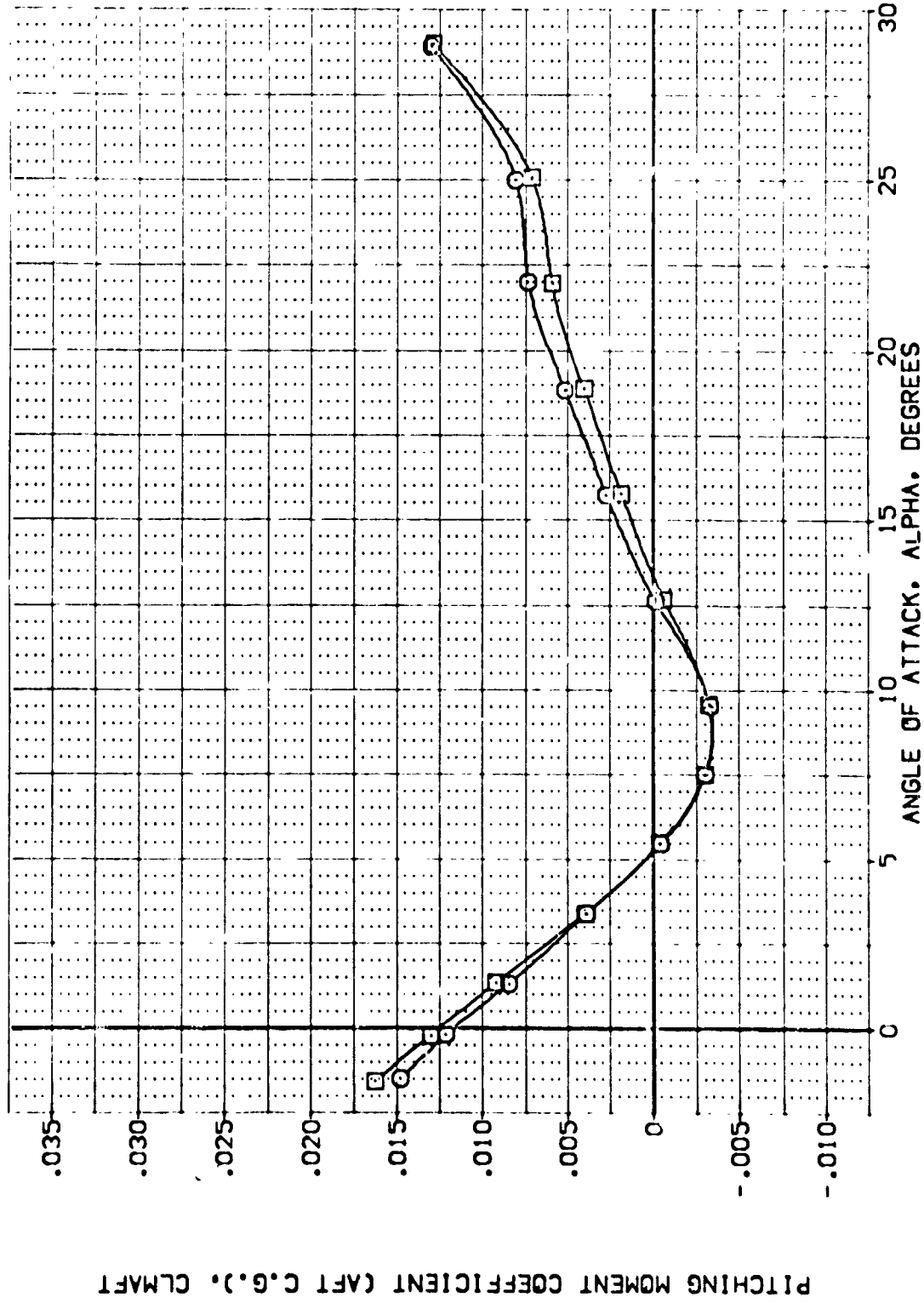


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL: (TEND16) CONFIGURATION DESCRIPTION: ARC 97-747 OA538 B C H F V2 V NOM: RNVL
 REFERENCE INFORMATION: SREF: 2.4210 SQ. FT.:
 LREF: 14.2140 IN.:
 XREF: 32.1004 IN.:
 YREF: .0000 IN.:
 ZREF: 11.2500 IN.:
 SCALE: .0000 SCALE:

E. YON: .000 AILERON: .000 BDFLAP: .000 SPOBRK: 55.000
 .000 .000 .000 55.000

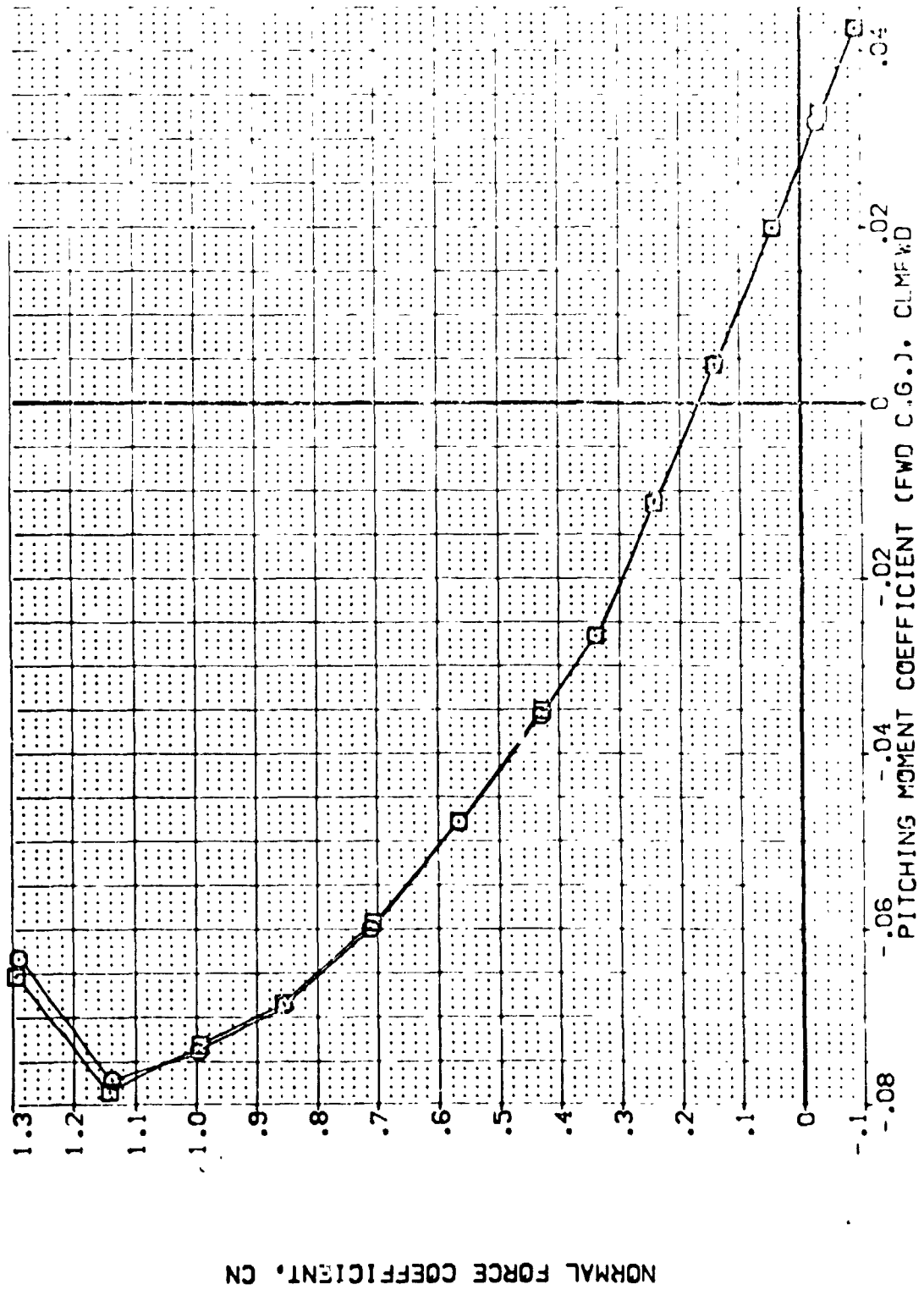


FIG. 6 WING MATRIX
 (A)MACH = 1.60

DATA SET SYMBOL: []
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS23 B C H F V2 V NOM: RNVL
 [] ARC 97-747 CAS23 B C H F V1 V NOM: RNVL
 REFERENCE INFORMATION: 2.4210 SQ.FT.
 SREF: 55.000
 XREF: 14.240
 YREF: 23.100
 XGRID: 22.000
 YGRID: 11.000
 SCALE: 11.0000

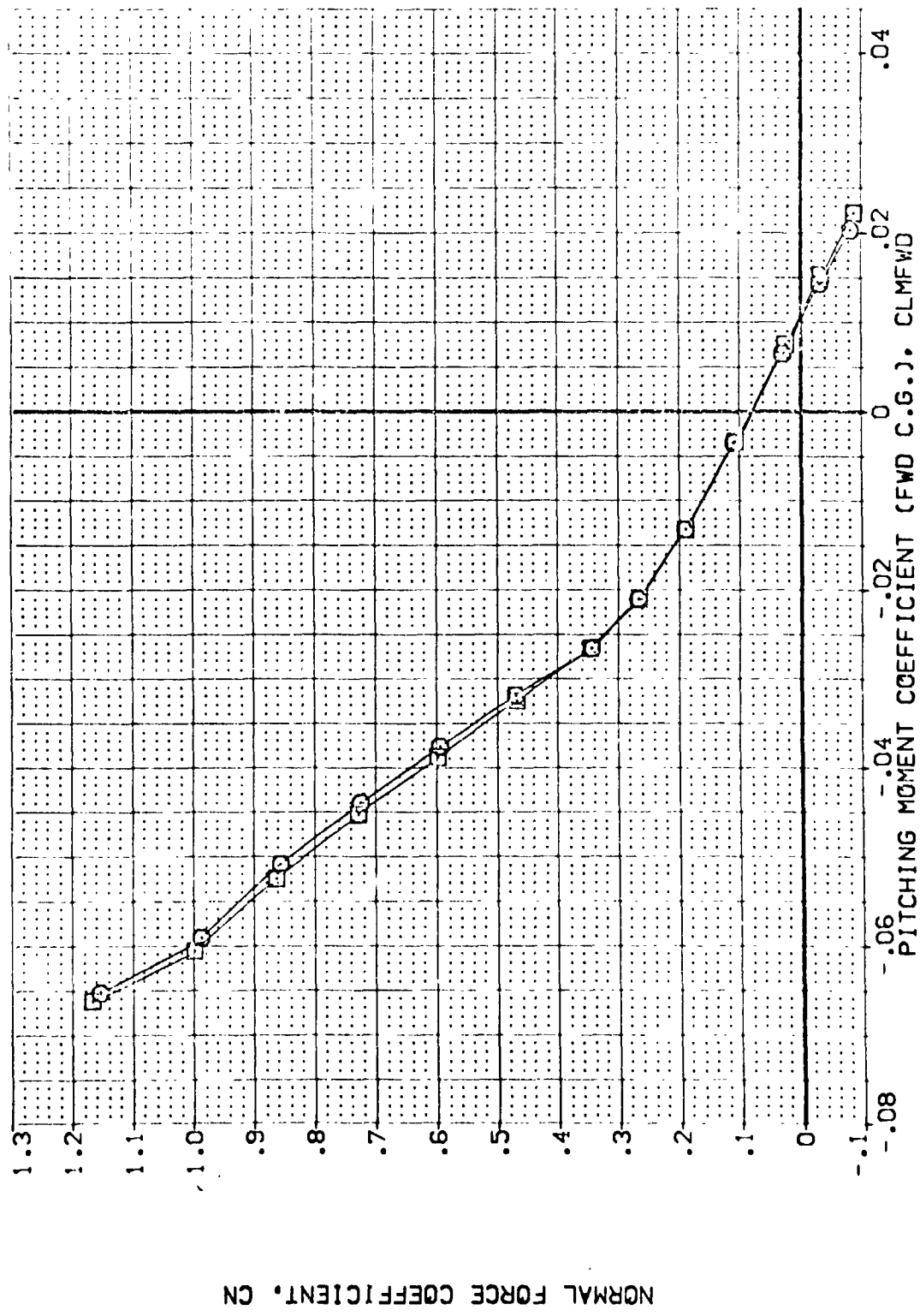


FIG. 6 WING MATRIX

(B)MACH = 2.00

DATA SET SYMBOL (TEK028) (TEK016)

CONFIGURATION DESCRIPTION
 ARC 97-747 0A538 B C M F V2 V
 ARC 97-747 0A538 B C M F V1 V

ELEVON AILTRON BDF LAP SPOBRK
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION
 SPREF 2.4210 50. FT.
 LPREF 14.2443 IN.
 XPREF 23.1004 IN.
 YMPR 32.5210 IN.
 ZMPR 6.0000 IN.
 SCALE 11.2500

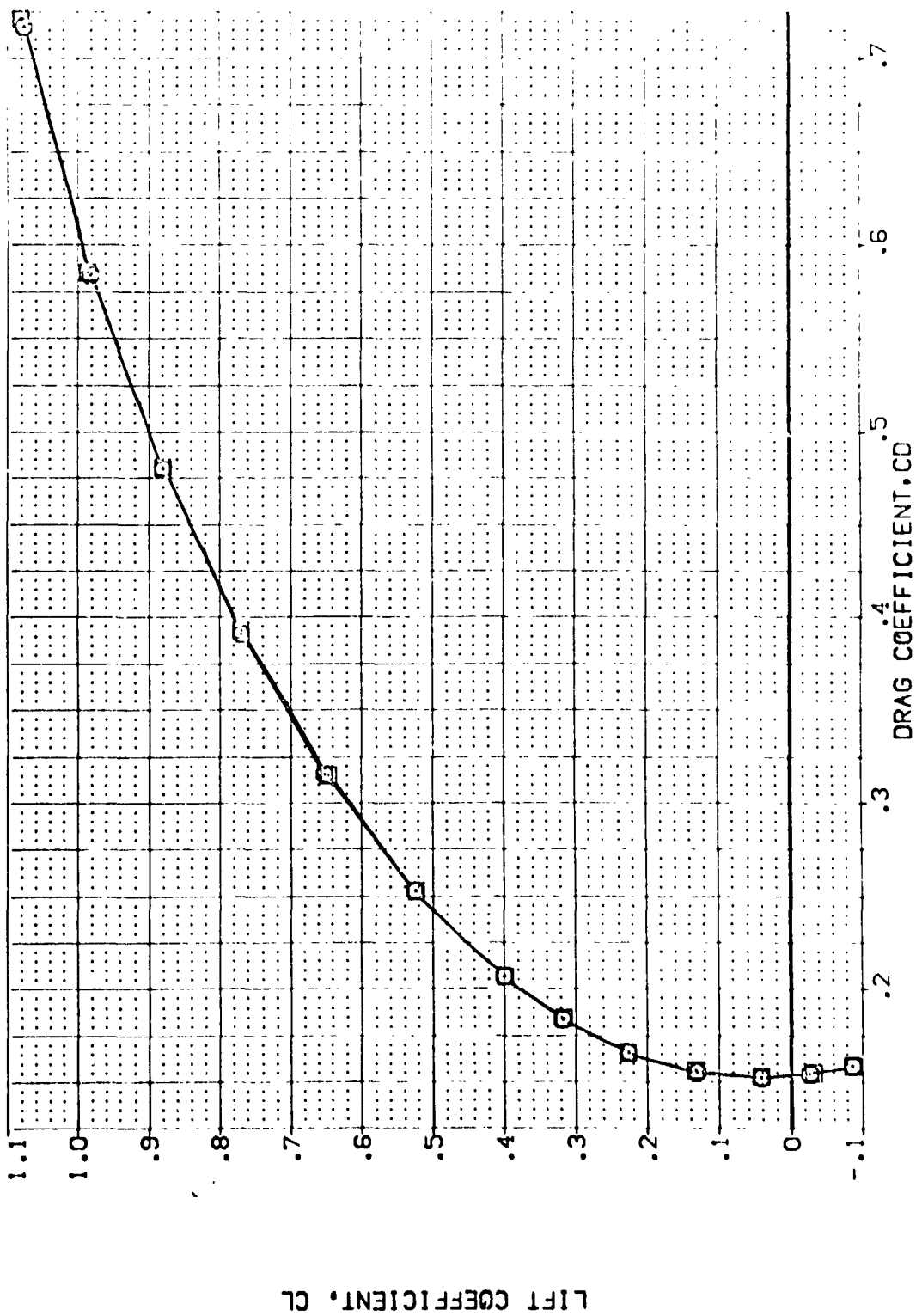


FIG. 6 WING MATRIX

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(1) 2078	APC 97-747 2A-503 B C E F V2 V	.000	.000	.000	55.000	SPEED 2.4210 COEFF.
(2) 518	APC 97-747 2A-503 B C E F V1 V	.000	.000	.000	55.000	REF 14.2510
						REF 29.1000
						REF 32.1000
						REF 11.0000
						SCALE

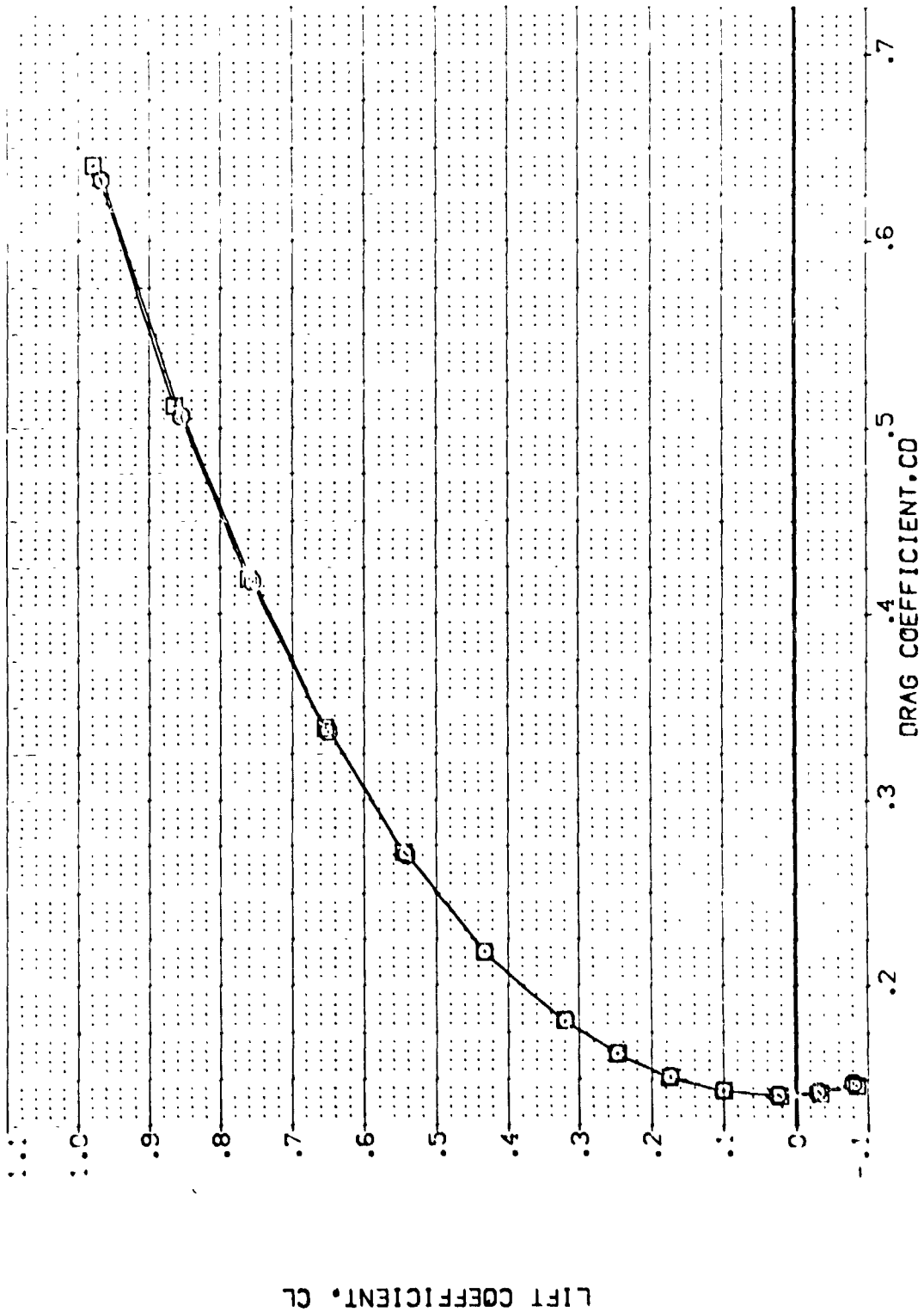


FIG. 6 WING MATRIX
(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BDF/LAP	SPOBRK	REFERENCE INFORMATION
{TEK029}	ARC 97-747 DA538 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 SQ.FT.
{TEK016}	ARC 97-747 DA538 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						EREF 23.1001 IN.
						XREF 32.3010 IN.
						YREF 6.0000 IN.
						ZREF 11.2600 IN.
						SCALE .0300 SCALE

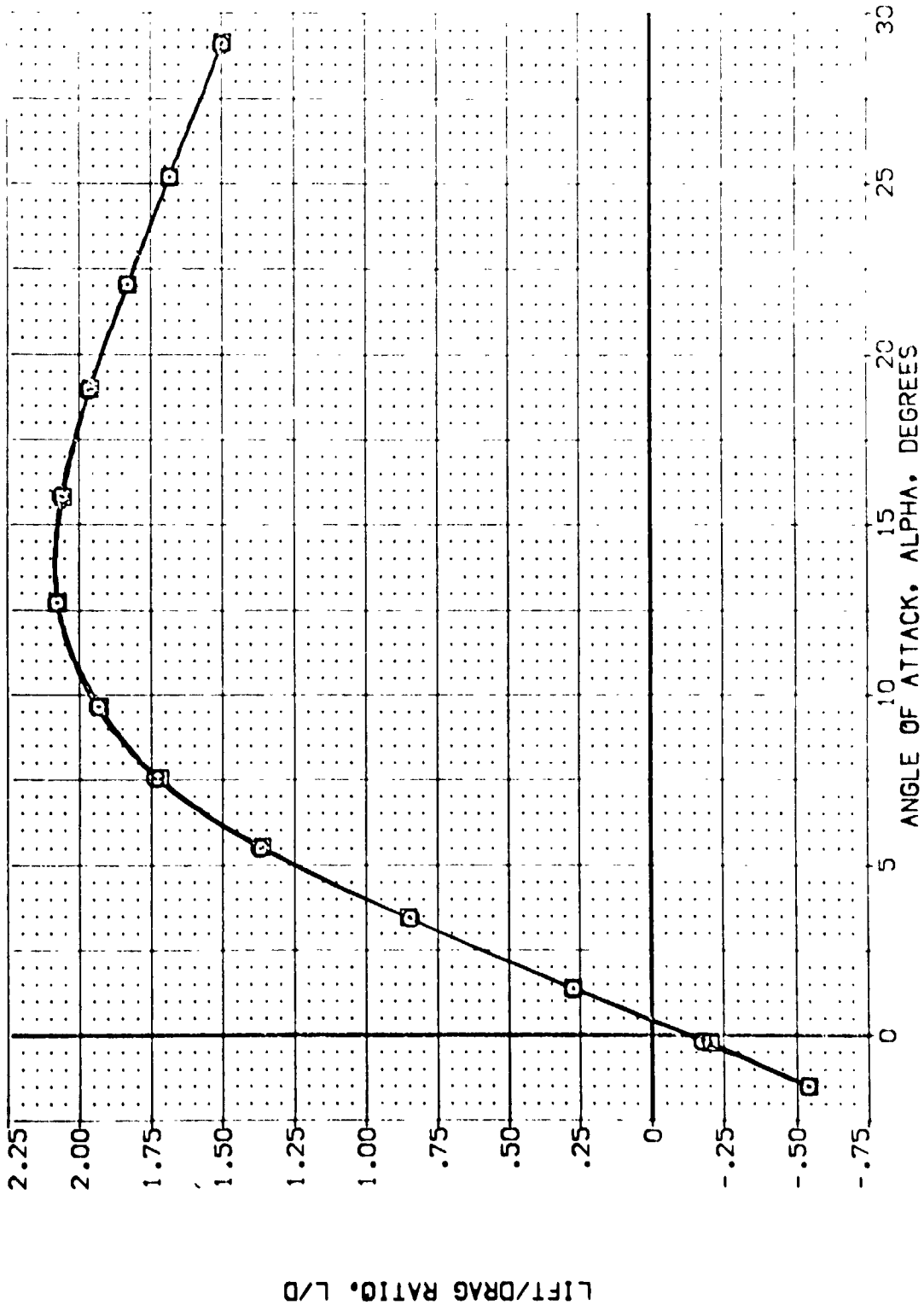


FIG. 6 WING MATRIX

{A}MACH = 1.60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(TEK028)	ARC 97-747 DA539 B C M F V2 V	.000	.000	.000	55.000	SREF 2.4210 50. FT.
(EX016)	ARC 97-747 DA533 B C M F V1 V	.000	.000	.000	55.000	LREF 14.2440 IN.
						BDF F 28.1000 IN.
						XMRD 32.0010 IN.
						YMRD .0000 IN.
						ZMRD 11.2500 IN.
						SCALE .0000 SCALE

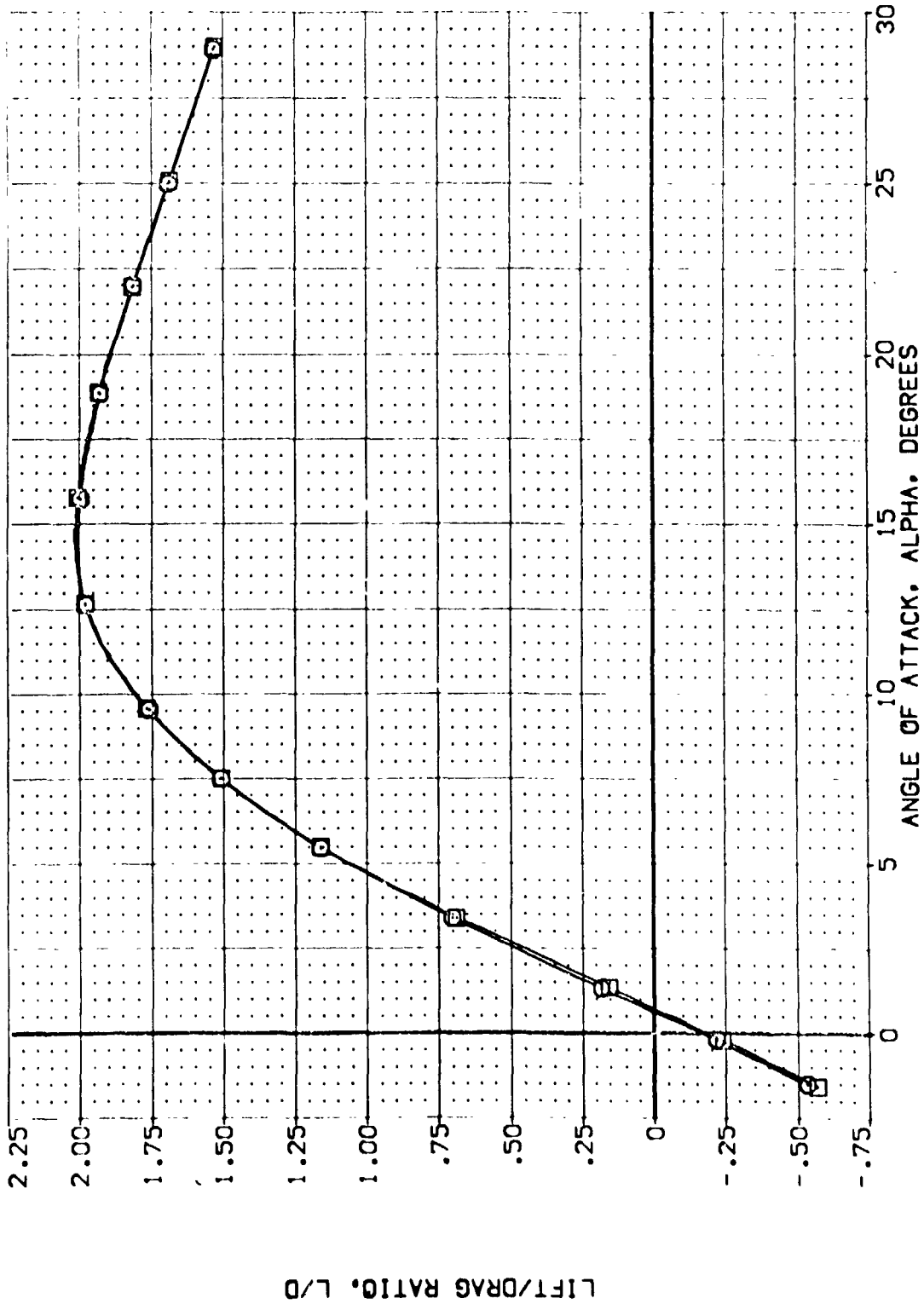


FIG. 6 WING MATRIX
(B)MACH = 2.00

DATA SET SYMBOL: (AERD28) (AERD16)
 CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C H F V2 V NON, RWL / ARC 97-747 GAS38 B C H F V1 V NON, RWL
 ELEVON: .000 / AILERON: .000 / BOFLAP: .000 / SPOBRK: 55.000 / SPOBRK: 55.000
 SREF: 2.4210 SQ.FT. / LREF: 14.2440 IN. / EREF: 28.1054 IN. / XMCP: 32.9910 IN. / YMCP: 0.000 IN. / ZMCP: 11.2000 IN. / SCALE: .0000 SCALE

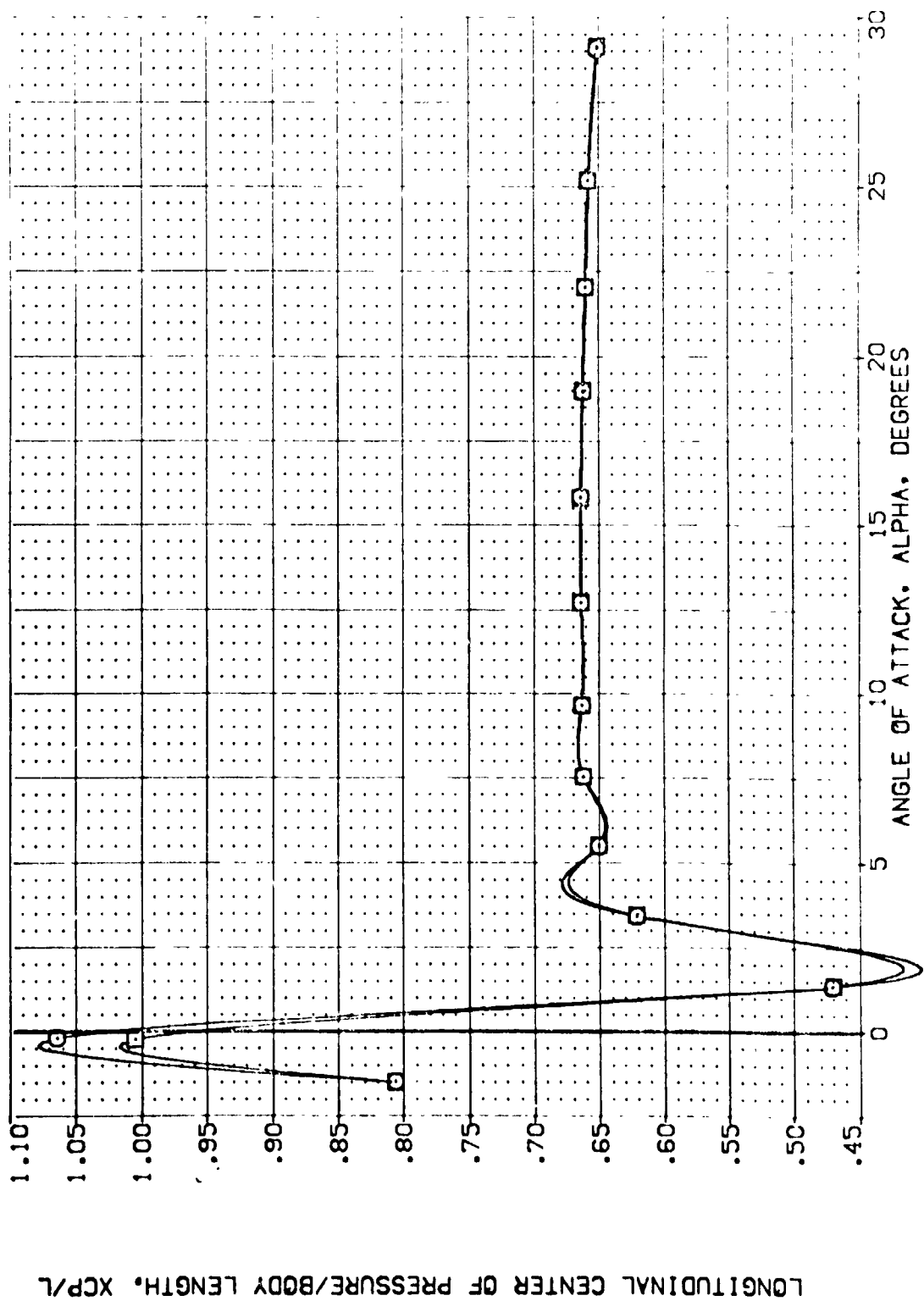


FIG. 6 WING MATRIX
 (A)MACH = 1.60

DATA SET SYMBOL: (AE-078)
 CONFIGURATION DESCRIPTION: APC 97-747 CA-508 B C M F V2 V NOM: RWL
 (AE-016) APC 97-747 CA-533 B C M F V1 V NOM: RWL

ELEVON: .000
 AIRLON: .000
 BOFLAP: .000
 SPOORK: 55.000

REFERENCE INFORMATION:
 SPEE: 2.4210 SC.FT.
 LITE: 14.2400 IN.
 ENGE: 28.1004 IN.
 XLOC: 22.0010 IN.
 YLOC: 11.0000 IN.
 ZLOC: .0000 IN.
 SCALE: .0000

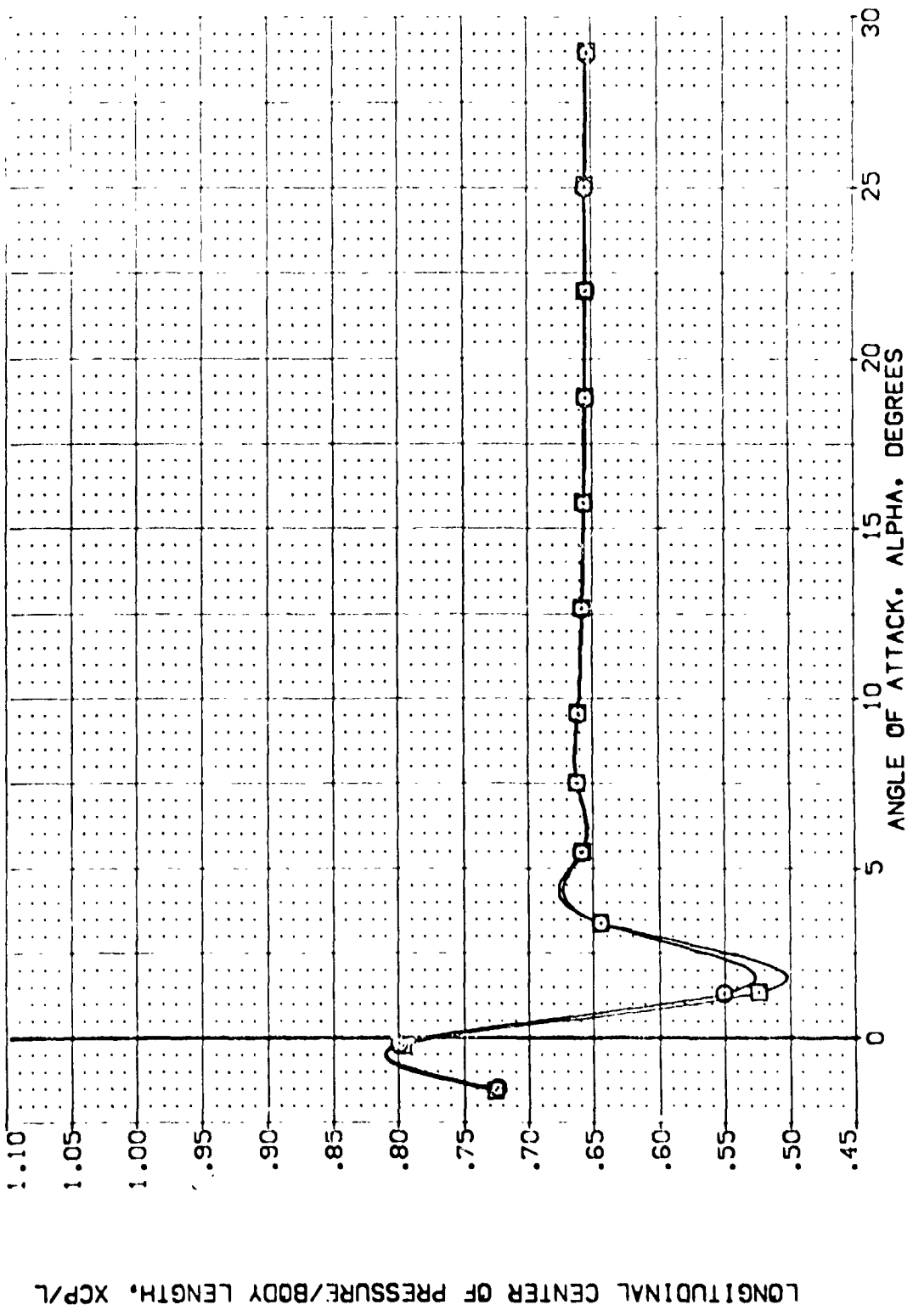


FIG. 6 WING MATRIX
 (B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 CAS33 B C M F VI V	NON.	RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{TEK011}	ARC 97-747 CAS33 B C M F VI V	NON.	RV/L	.000	.000	-11.700	55.000	LREF 14.2440
{TEK002}	ARC 97-747 CAS33 B C M F VI V	NON.	RV/L	-10.000	.000	-11.700	55.000	EREF 20.1550
{TEK019}	ARC 97-747 CAS33 B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	YREF 30.0000
{TEK023}	ARC 97-747 CAS33 B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	ZREF 11.2530
								SCALE .0000

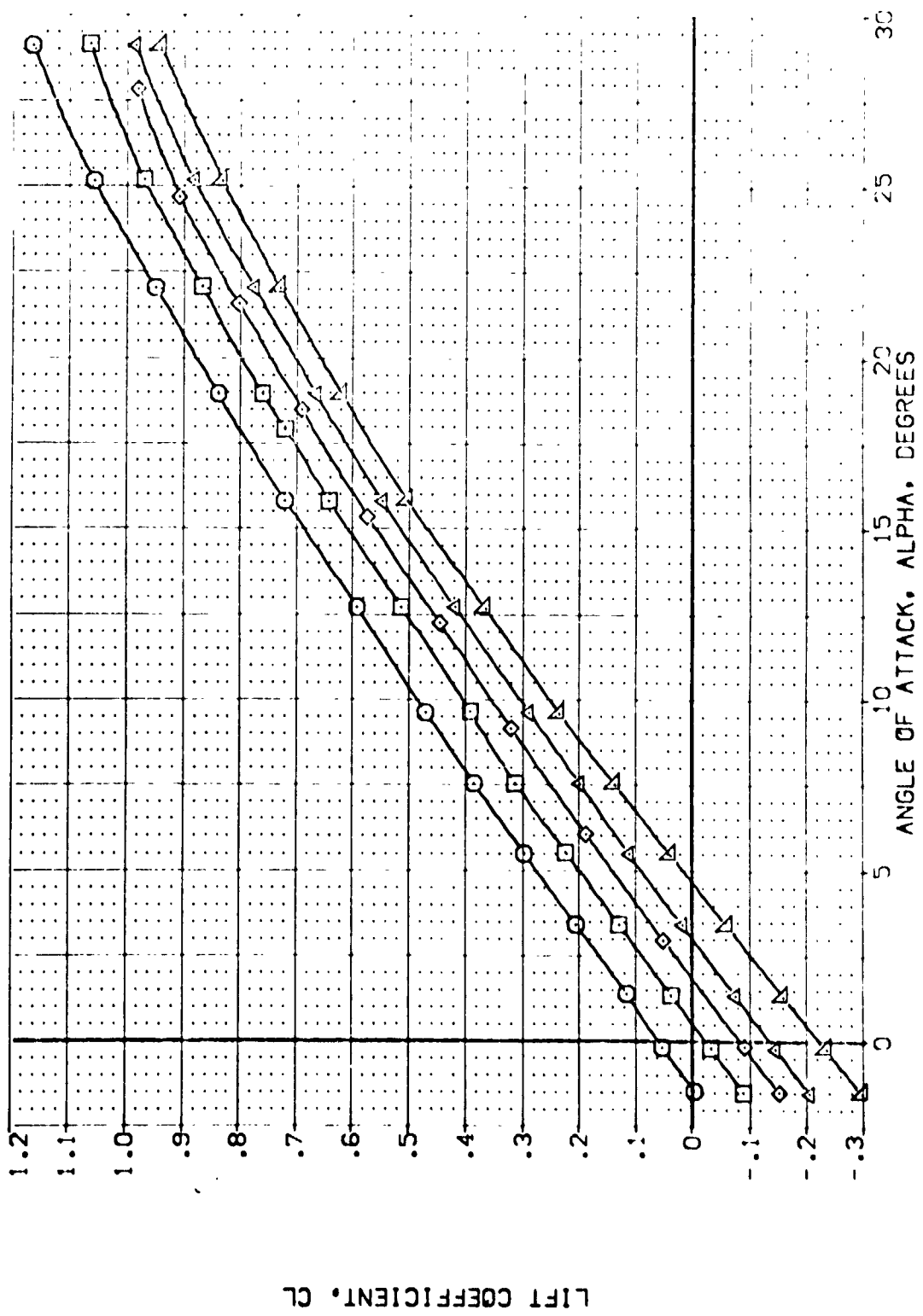


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	PNAL	ELEVON	AILERON	BOFLAP	SPOBRK	SPICE	REFERENCE INFORMATION
110000	ABC 57-747 B C M E V	V	PNAL	15.000	.000	-11.700	55.000	SPICE	2.4210
110001	ABC 57-747 B C M E V	V	PNAL	10.000	.000	-11.700	55.000	LEEF	14.2440
110002	ABC 57-747 B C M E V	V	PNAL	-10.000	.000	-11.700	55.000	DMAP	20.1004
110003	ABC 57-747 B C M E V	V	PNAL	-20.000	.000	-11.700	55.000	YMP3	32.0010
110004	ABC 57-747 B C M E V	V	PNAL	-20.000	.000	-11.700	55.000	ZMP3	11.0000
								SCALE	SCALE

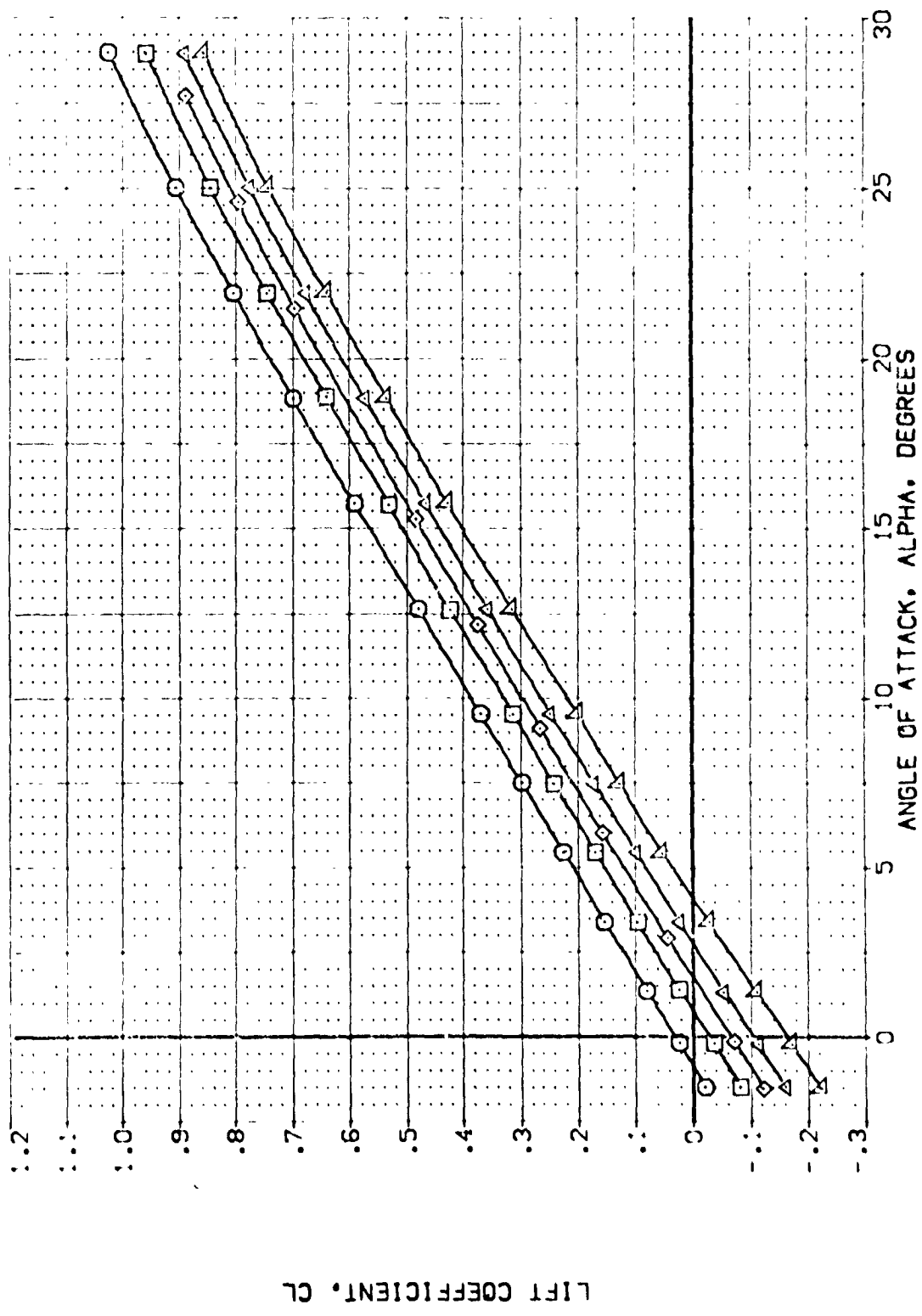


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NDI	RVL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 OAS38 B C M F VI V	NDI	RVL	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{TEK011}	ARC 97-747 OAS38 B C M F VI V	NDI	RVL	-10.000	.000	-11.700	55.000	LREF 14.2440 IN.
{TEK002}	ARC 97-747 OAS38 B C M F VI V	NDI	RVL	-10.000	.000	-11.700	55.000	BCRF 23.1004 IN.
{TEK019}	ARC 97-747 OAS38 B C M F VI V	NDI	RVL	-20.000	.000	-11.700	55.000	XMRP 32.3010 IN.
{TEK023}	ARC 97-747 OAS38 B C M F VI V	NDI	RVL	-20.000	.000	-11.700	55.000	YMRP 40.0000 IN.
								ZMRP 11.2500 IN.
								SCALE 11.0000 SCALE

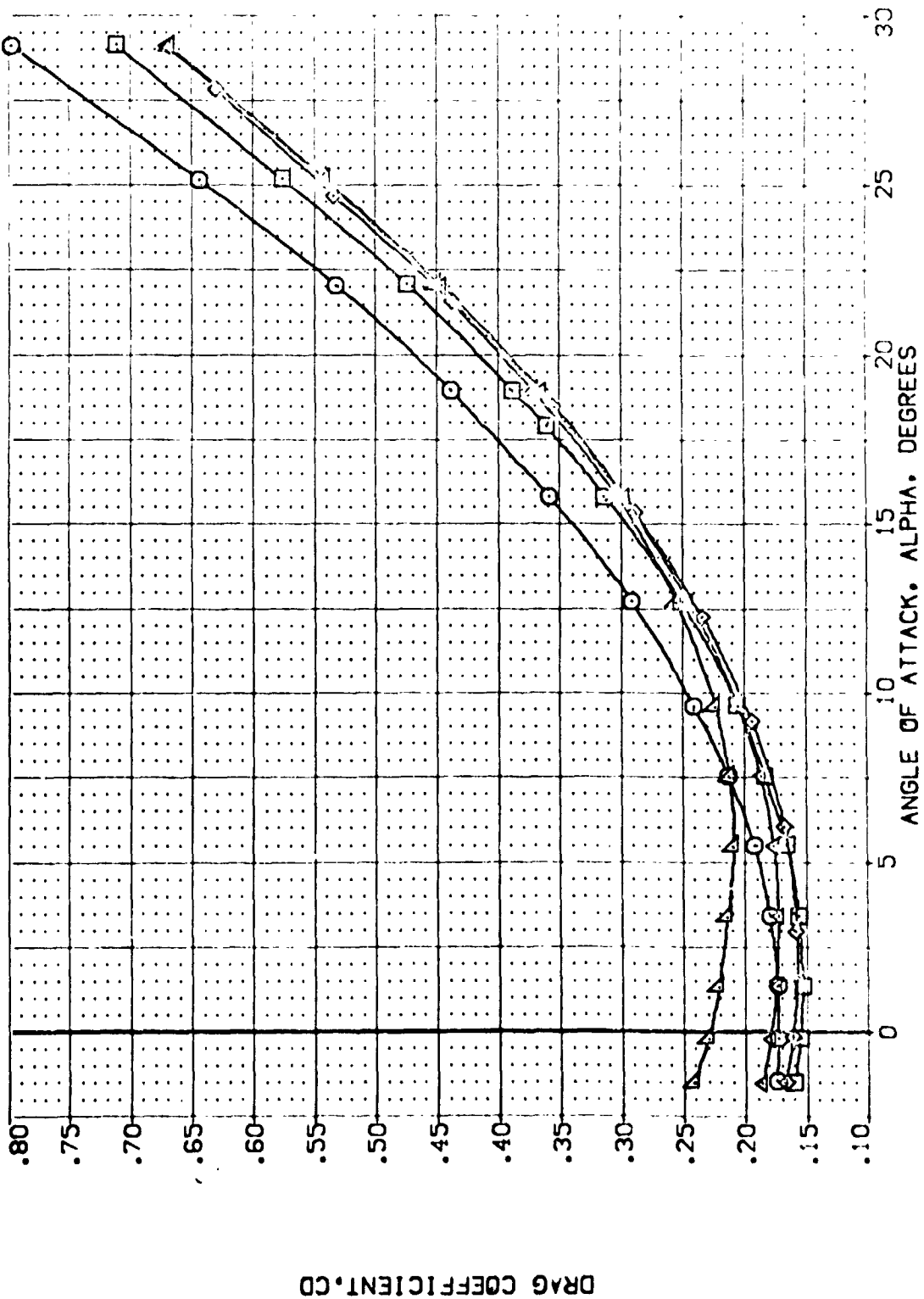


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
(TEPC03)	ARC 97-747 B A5 B B C M F VI V	NON.	RV/L	15.000	.000	-11.700	55.000	SREF 2.4210
(TEPC01)	ARC 97-747 B A5 B B C M F VI V	NON.	RV/L	10.000	.000	-11.700	55.000	URFF 14.2440
(TEPC02)	ARC 97-747 B A5 B B C M F VI V	NON.	RV/L	-10.000	.000	-11.700	55.000	LRFF 20.1004
(TEPC19)	ARC 97-747 B A5 B B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	XRFF 32.5310
(TEPC23)	ARC 97-747 B A5 B B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	YMRP .0000
								ZMRP 11.2500
								SCALE .0000

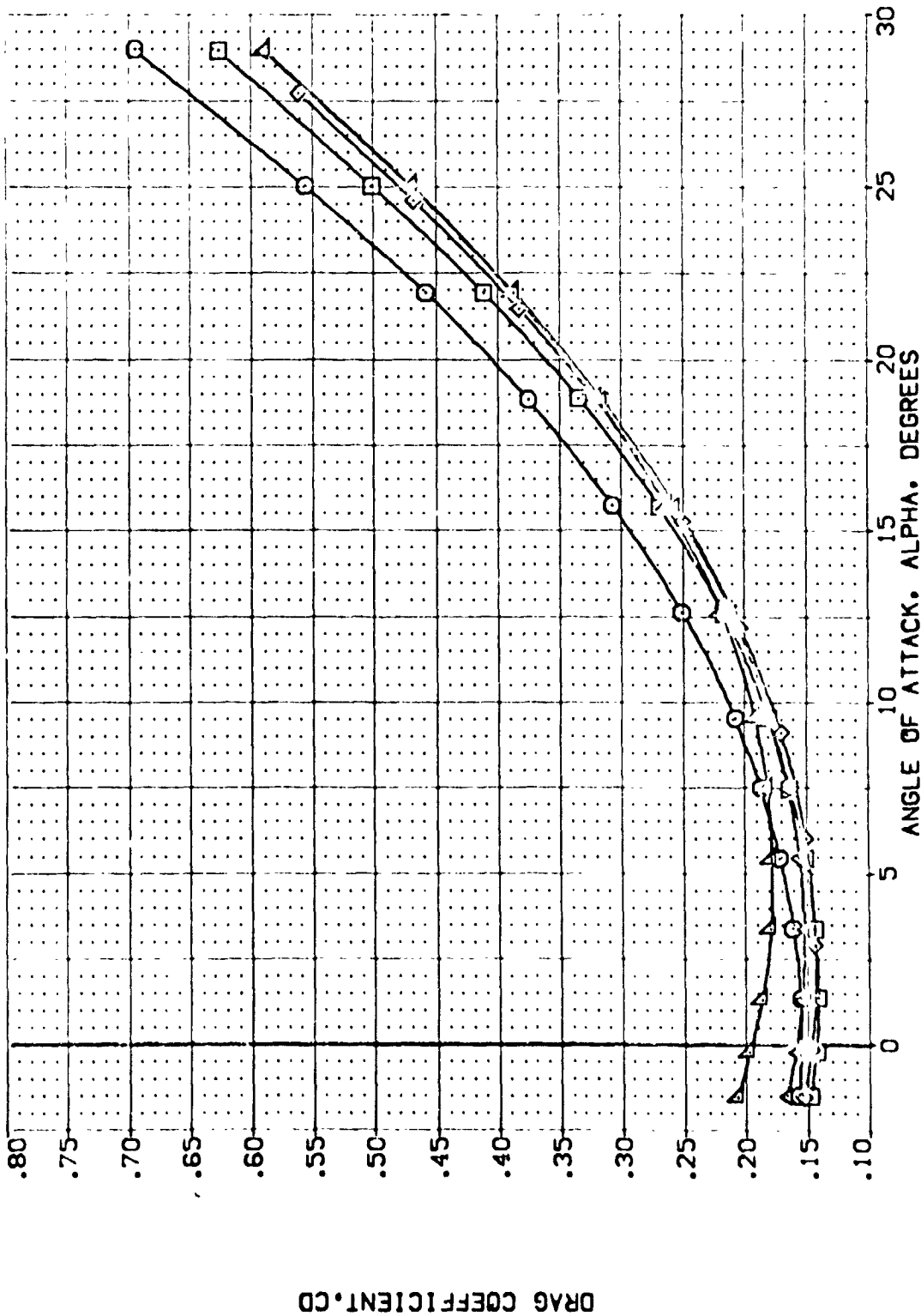


FIG. 7 ELEVON EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON:	RVAL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 OAS29 B C H F VI V	NON:	RVAL	15.000	.000	-11.700	55.000	SREF 2.4210 50. FT.
(TEK011)	ARC 97-747 OAS23 B C H F VI V	NON:	RVAL	.000	.000	-11.700	55.000	LREF 14.2440 10.
(TEK002)	ARC 97-747 OAS23 B C H F VI V	NON:	RVAL	-10.000	.000	-11.700	55.000	BREF 20.1000 10.
(TEK019)	ARC 97-747 OAS23 B C H F VI V	NON:	RVAL	-20.000	.000	-11.700	55.000	XREF 32.3010 10.
(TEK023)	ARC 97-747 OAS23 B C H F VI V	NON:	RVAL	-20.000	.000	-11.700	55.000	YREF 11.0000 10.
								ZREF 11.0000 10.
								SCALE .0000

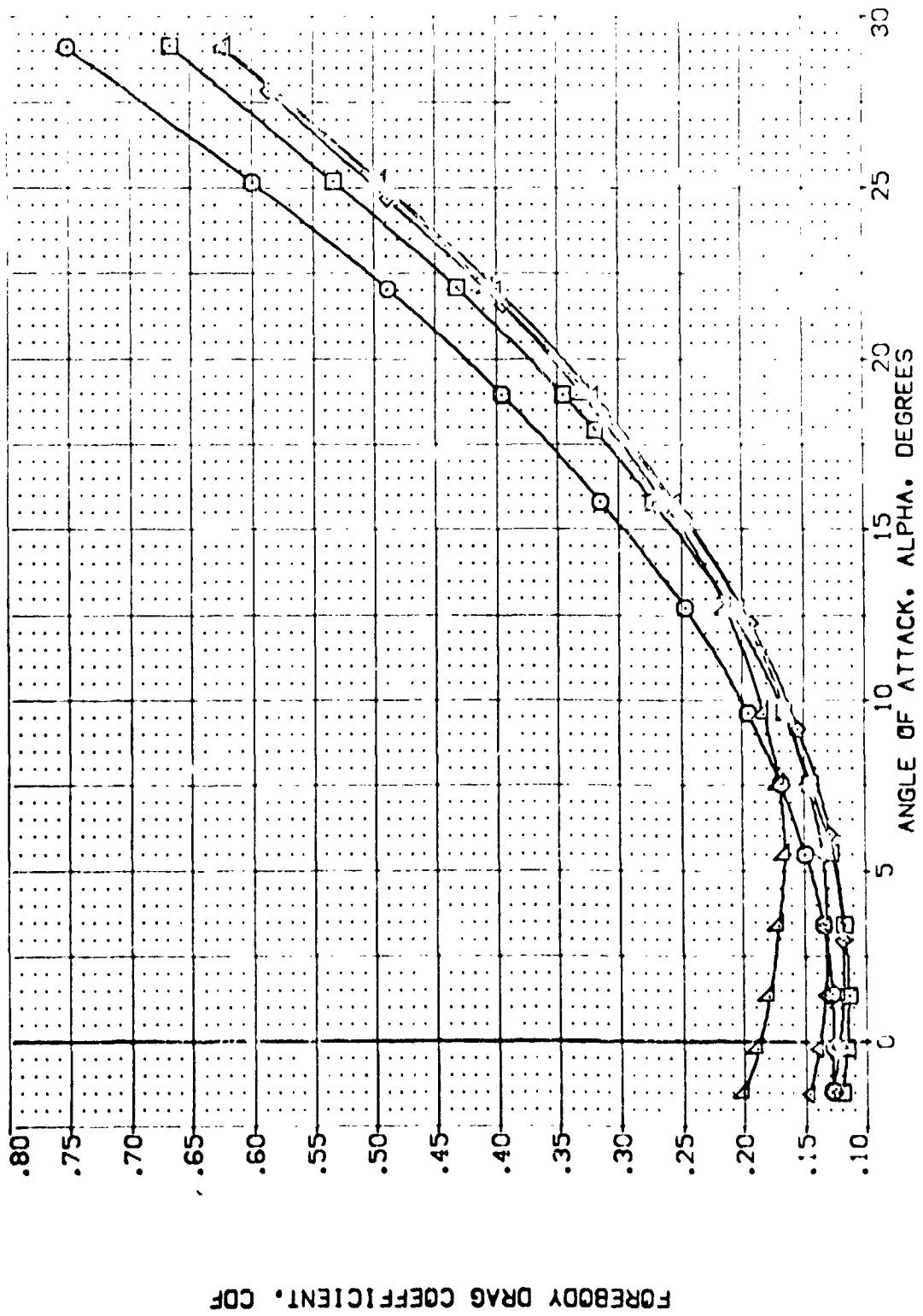
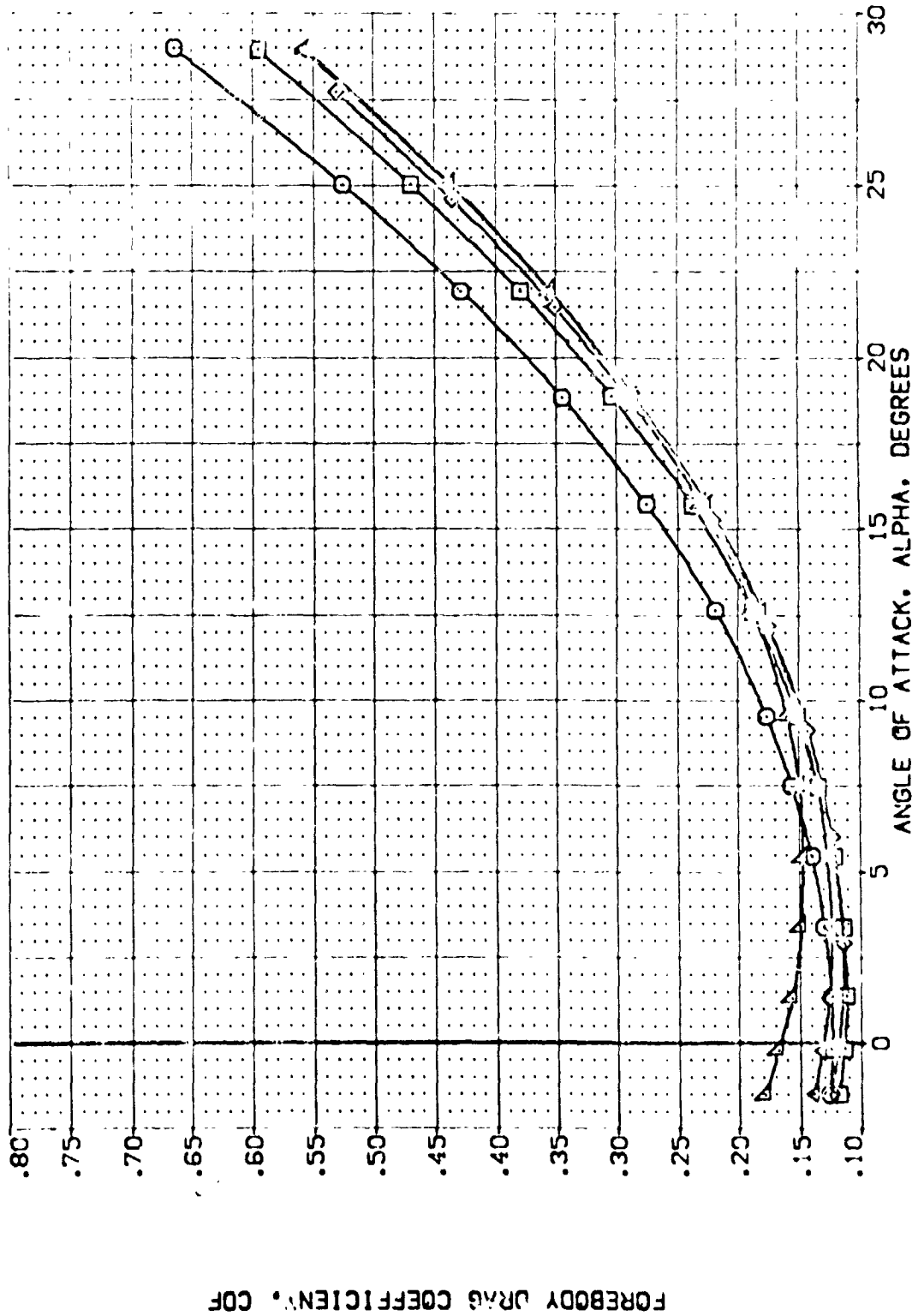


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CAS23 B C H F V I V	15.000	.000	-11.700	55.000	2.4210 SC.FT.
(TEK011)	ARC 97-747 CAS23 B C H F V I V	10.000	.000	-11.700	55.000	14.2140 SC.FT.
(TEK007)	ARC 97-747 CAS23 B C H F V I V	-10.000	.000	-11.700	55.000	20.1000 SC.FT.
(TEK019)	ARC 97-747 CAS23 B C H F V I V	-20.000	.000	-11.700	55.000	32.2070 SC.FT.
(TEK023)	ARC 97-747 CAS23 B C H F V I V	-20.000	.000	-11.700	55.000	11.0000 SC.FT.



FOREBODY DRAG COEFFICIENT, CDF

FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF. R/V/L	ELEVON	AILIRON	BD/LAP	SPEEDBRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CAS33 B C H F VI V	REF.	15.000	.000	-11.700	55.000	2.4210
(TEK011)	ARC 97-747 CAS33 B C H F VI V	REF.	.000	.000	-11.700	55.000	14.2440
(TEK002)	ARC 97-747 CAS33 B C H F VI V	REF.	-10.000	.000	-11.700	55.000	28.1004
(TEK019)	ARC 97-747 CAS33 B C H F VI V	REF.	-20.000	.000	-11.700	55.000	32.5210
(TEK023)	ARC 97-747 CAS33 B C H F VI V	REF.		.000	-11.700	55.000	11.2500

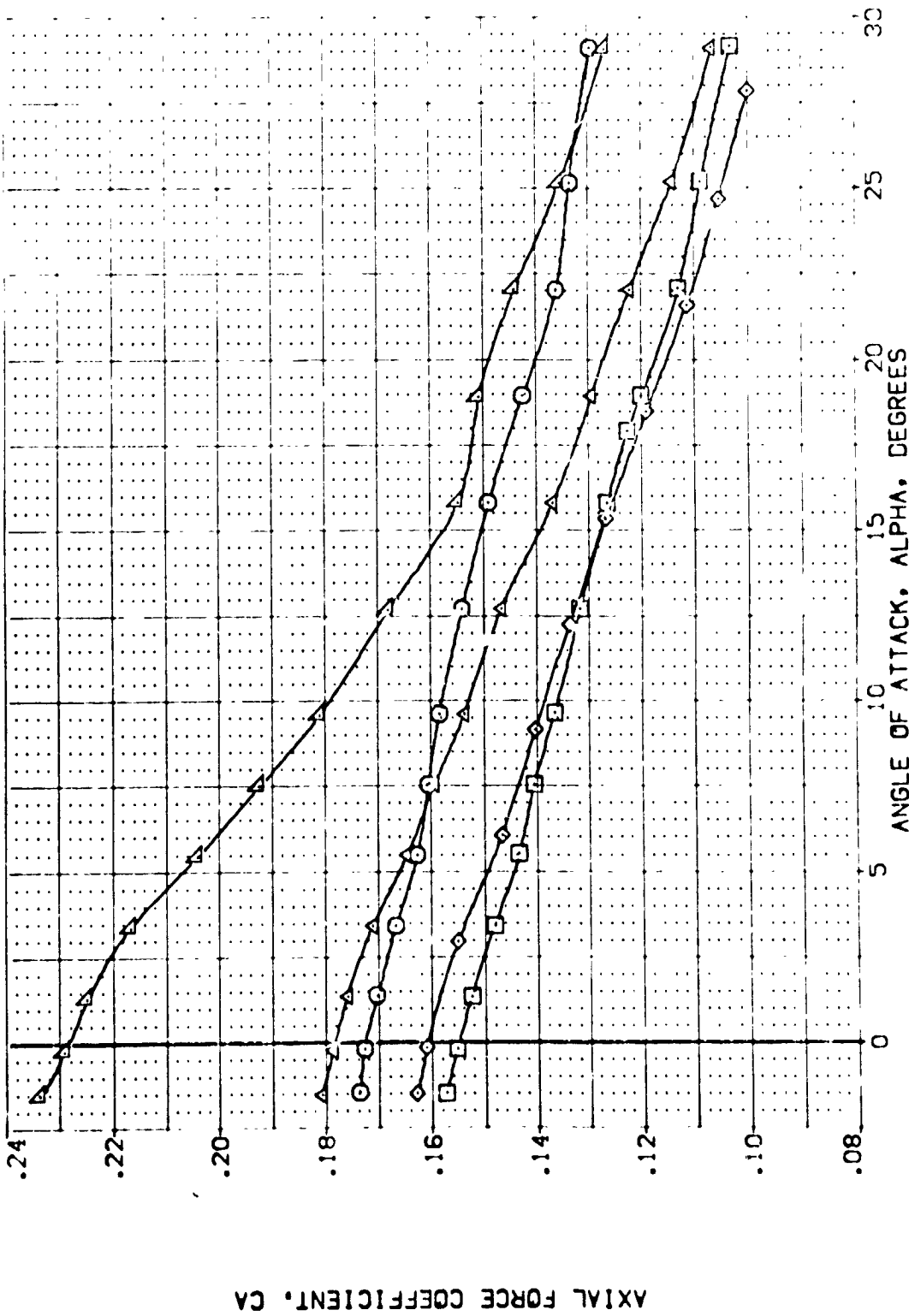


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MON.	RVAL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK003]	ARC 97-747 D4533 B C M F VI V	N24.	RVAL	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[TEK011]	ARC 97-747 D4533 B C M F VI V	N24.	RVAL	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[TEK012]	ARC 97-747 D4533 B C M F VI V	N24.	RVAL	-10.000	.000	-11.700	55.000	ISREF 20.1004 IN.
[TEK019]	ARC 97-747 D4533 B C M F VI V	N24.	RVAL	-20.000	.000	-11.700	55.000	XMREF 32.2010 IN.
[TEK023]	ARC 97-747 D4533 B C M F VI V	N24.	RVAL	-20.000	.000	-11.700	55.000	YMREF 11.0000 IN.
								ZMREF 11.0000 IN.
								SCALE .0300

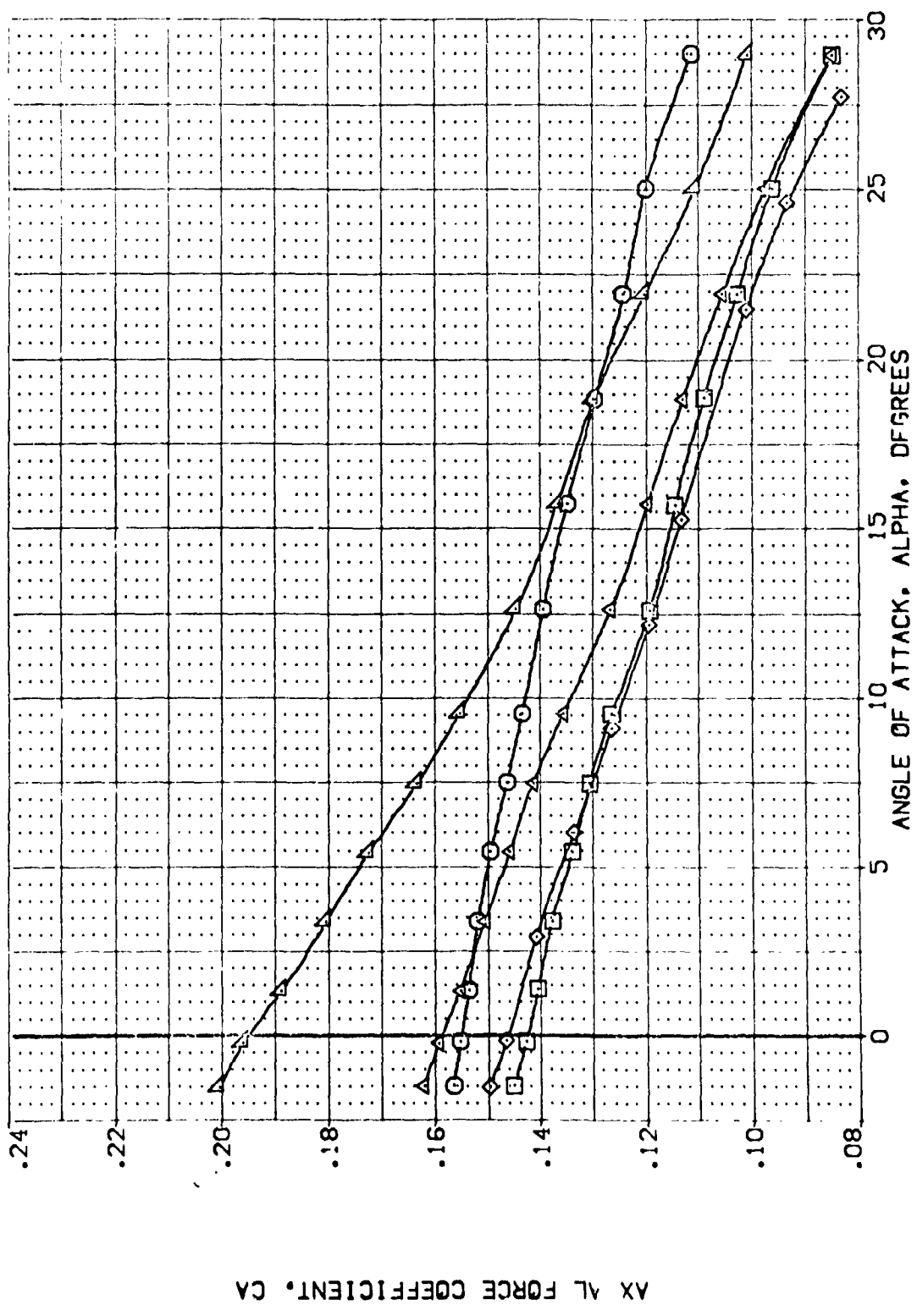


FIG. 7 ELEVON EFFECTS
(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[TEK003]	ARC 97-747 0A538 B C M F V1 V	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[TEK011]	ARC 97-747 0A533 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 N.
[TEK002]	ARC 97-747 0A533 B C M F V1 V	-10.000	.000	-11.700	55.000	BREF 28.1004 N.
[TEK019]	ARC 97-747 0A533 B C M F V1 V	-20.000	.000	-11.700	55.000	XMRP 32.0010 N.
[TEK023]	ARC 97-747 0A533 B C M F V1 V	-20.000	.000	-11.700	55.000	YMRP 11.0000 N.
						ZMRP 11.2600 N.
						SCALE .0300

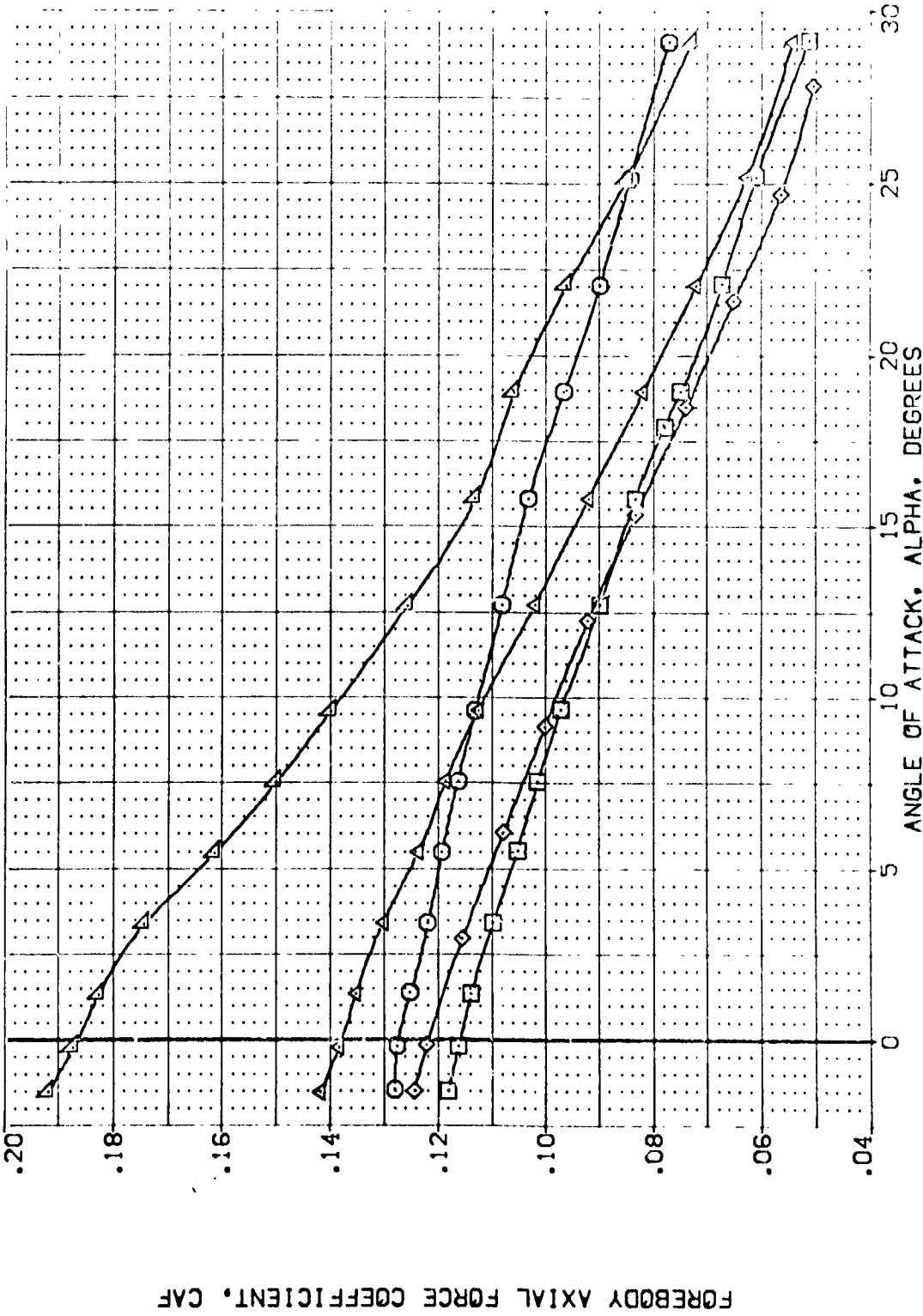


FIG. 7 ELEVON EFFECTS

(MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	Y	BU	ELEVON	ALPHA	ED LAR	SPOBOW	SCALE	REFERENCE INFORMATION
11E-003	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	2-4210 50.000
11E-004	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-005	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-006	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-007	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-008	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-009	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-010	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-011	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-012	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-013	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-014	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-015	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-016	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-017	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-018	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-019	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-020	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-021	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-022	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-023	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-024	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-025	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-026	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-027	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-028	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-029	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000
11E-030	APC 87-747 CAS-3 B C M E V	✓	BU	15.000	.000	-11.700	56.000	SCALE	1-4210 50.000

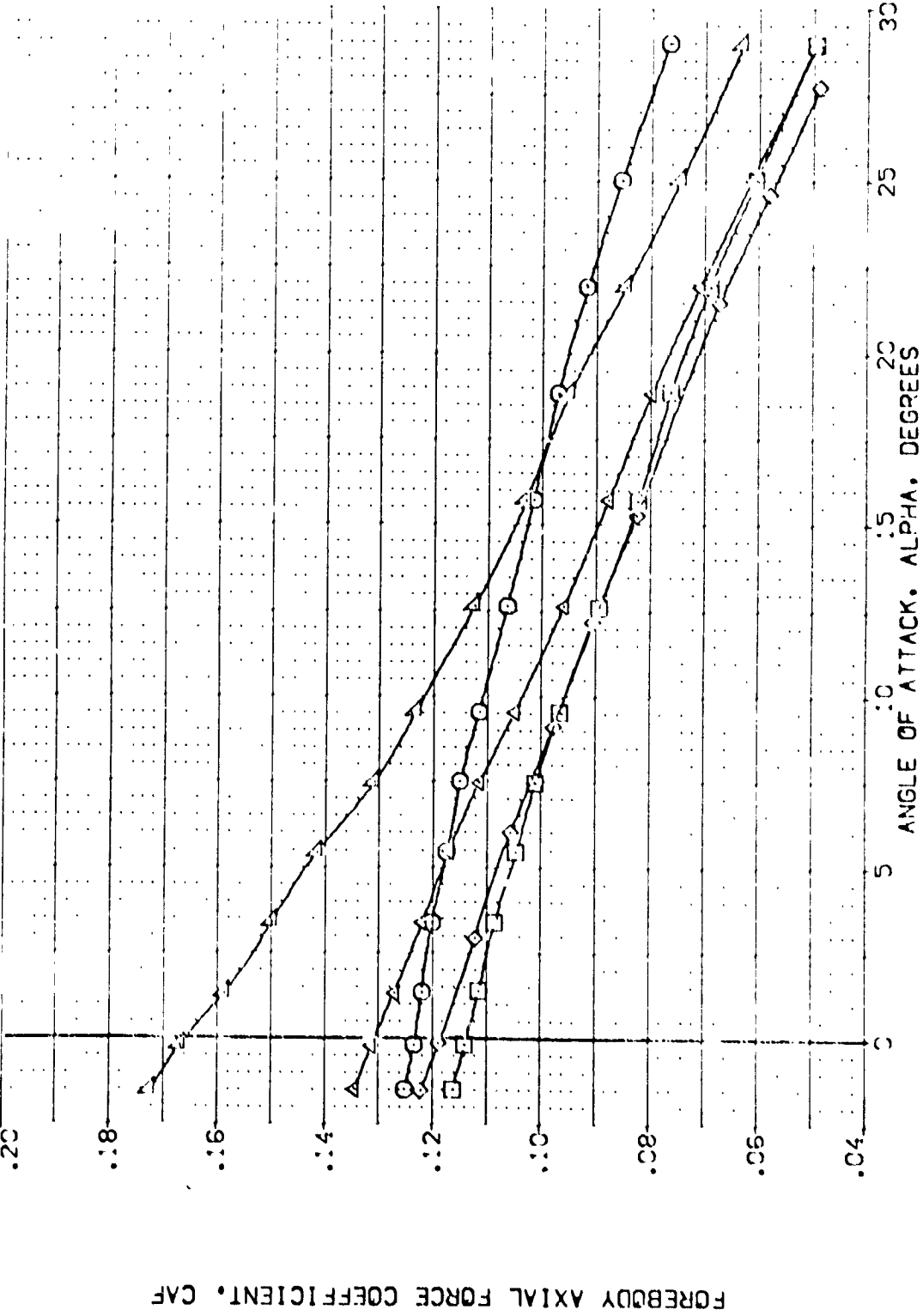


FIG. 7 ELEVON EFFECTS
 (B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RNVL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK000}	ARC 97-747 CAS38 B C M F VI V	NON.	RNVL	15.000	.000	-11.700	55.000	SREF 2.4210 50.FT.
{TEK011}	ARC 97-747 CAS38 B C M F VI V	NON.	RNVL	.000	.000	-11.700	55.000	LREF 14.2400 50.FT.
{TEK002}	ARC 97-747 CAS38 B C M F VI V	NON.	RNVL	-10.000	.000	-11.700	55.000	BREF 20.1000 50.FT.
{TEK019}	ARC 97-747 CAS38 B C M F VI V	NON.	RNVL	-20.000	.000	-11.700	55.000	XREF 32.0000 50.FT.
{TEK023}	ARC 97-747 CAS38 B C M F VI V	NON.	RNVL	-20.000	.000	-11.700	55.000	ZREF 44.0000 50.FT.
								SCALE 11.0000 50.FT.

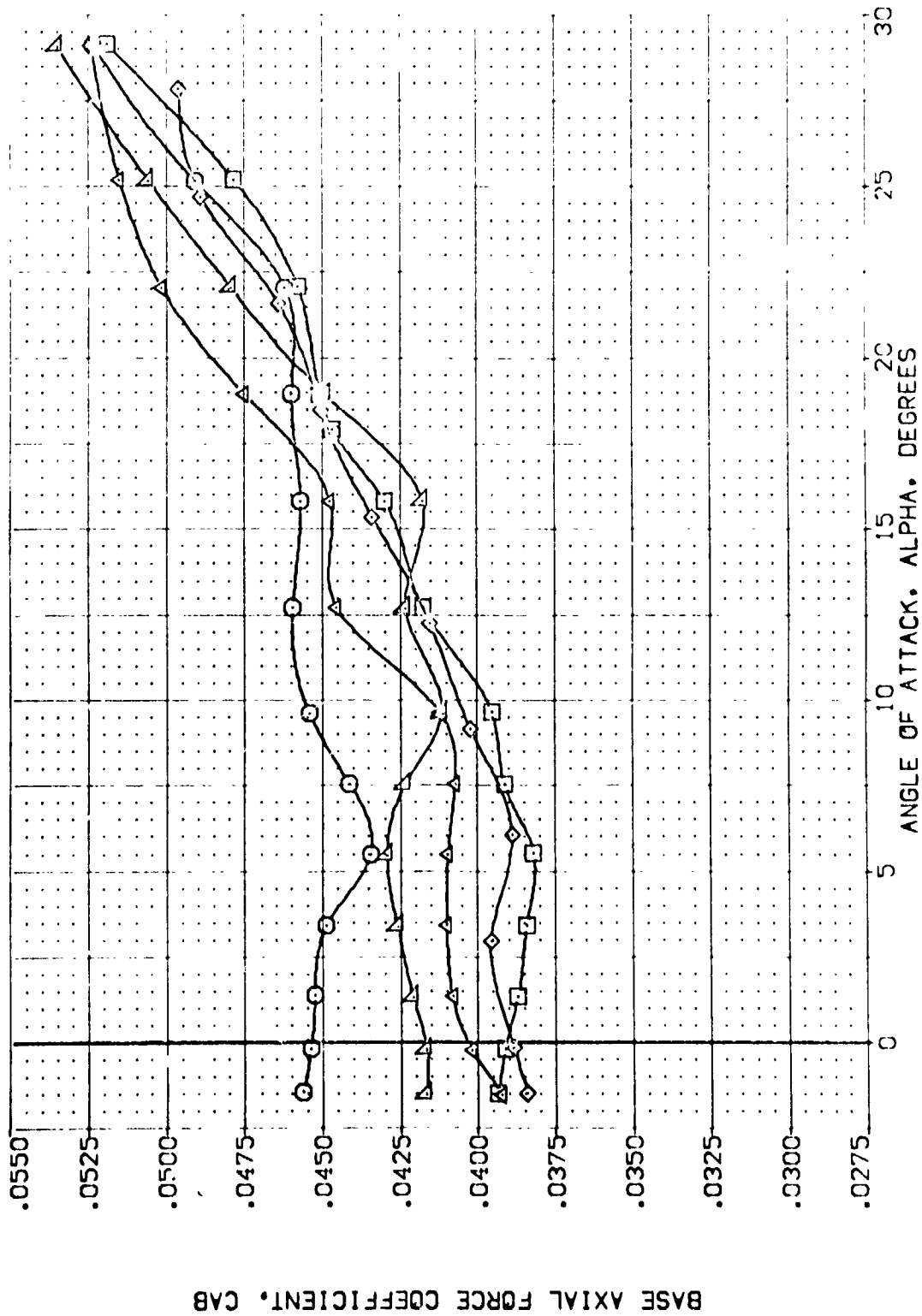


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOT.	RVAL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CAS23 B C M F VI V	NOT.	RVAL	15.000	.000	-11.700	55.000	SREF 2.4210 90.FT.
(TEK011)	ARC 97-747 CAS03 B C M F VI V	NOT.	RVAL	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK002)	ARC 97-747 CAS03 B C M F VI V	NOT.	RVAL	-10.000	.000	-11.700	55.000	BREF 28.1004 IN.
(TEK019)	ARC 97-747 CAS03 B C M F VI V	NOT.	RVAL	-20.000	.000	-11.700	55.000	XMPD 32.0010 IN.
(TEK023)	ARC 97-747 CAS03 B C M F VI V	NOT.	RVAL	-20.000	.000	-11.700	55.000	YMPD 11.0000 IN.
								ZMPD 11.7000 IN.
								SCALE .0500

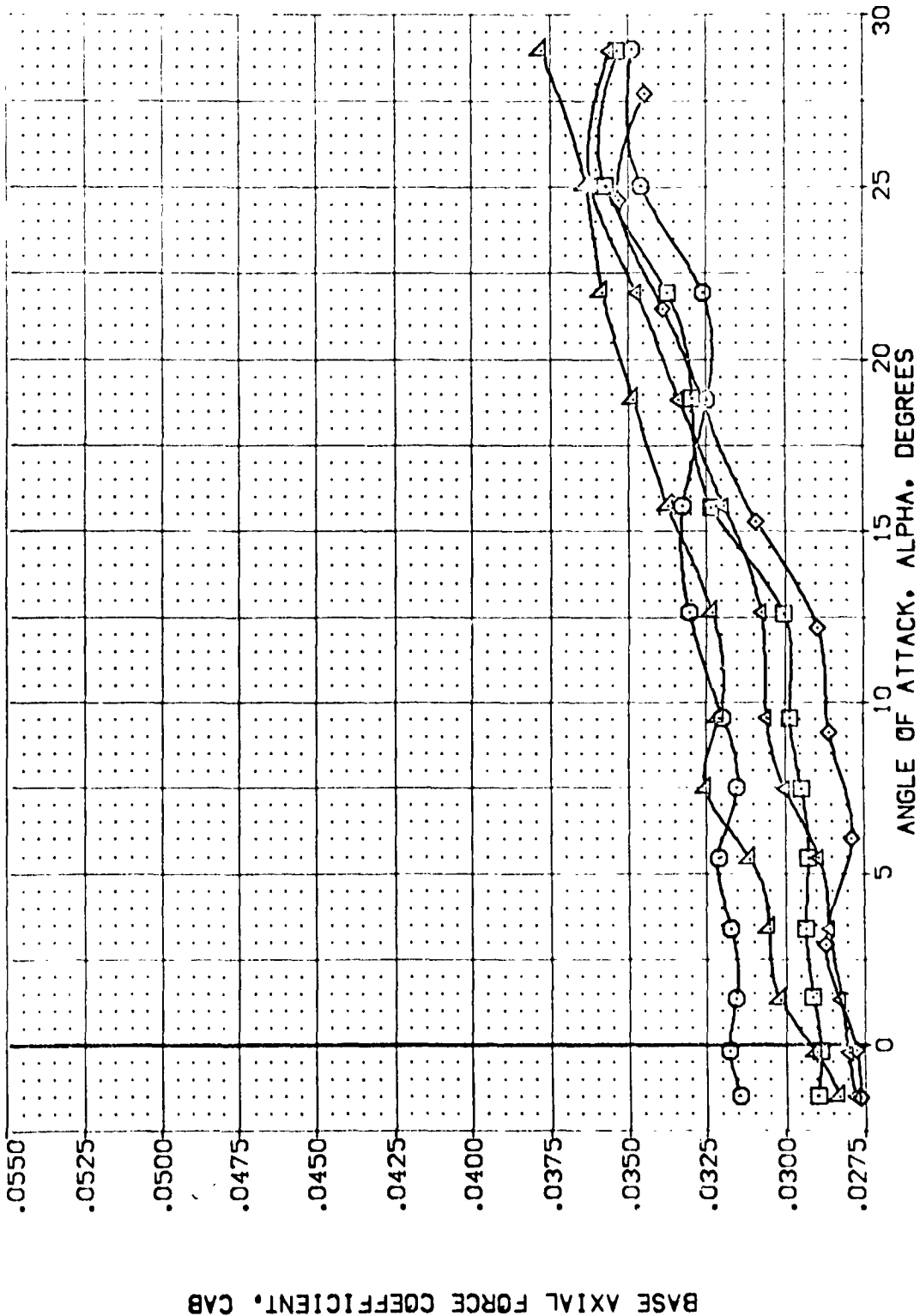


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

NORMAL FORCE COEFFICIENT, CN

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 DAS38 B C M F VI V	NOM.	15.000	.000	-11.700	55.000	SREF 2.4210 SC.FT.
{TEK011}	ARC 97-747 DAS38 B C M F VI V	NOM.	.000	.000	-11.700	55.000	LREF 14.2440
{TEK002}	ARC 97-747 DAS38 B C M F VI V	NOM.	-10.000	.000	-11.700	55.000	EREF 28.1004
{TEK019}	ARC 97-747 DAS38 B C M F VI V	NOM.	-20.000	.000	-11.700	55.000	XREF 32.9910
{TEK023}	ARC 97-747 DAS38 B C M F VI V	NOM.	-20.000	.000	-11.700	55.000	ZREF .0000
							YREF .0000
							SCALE 11.0000
							SCALE

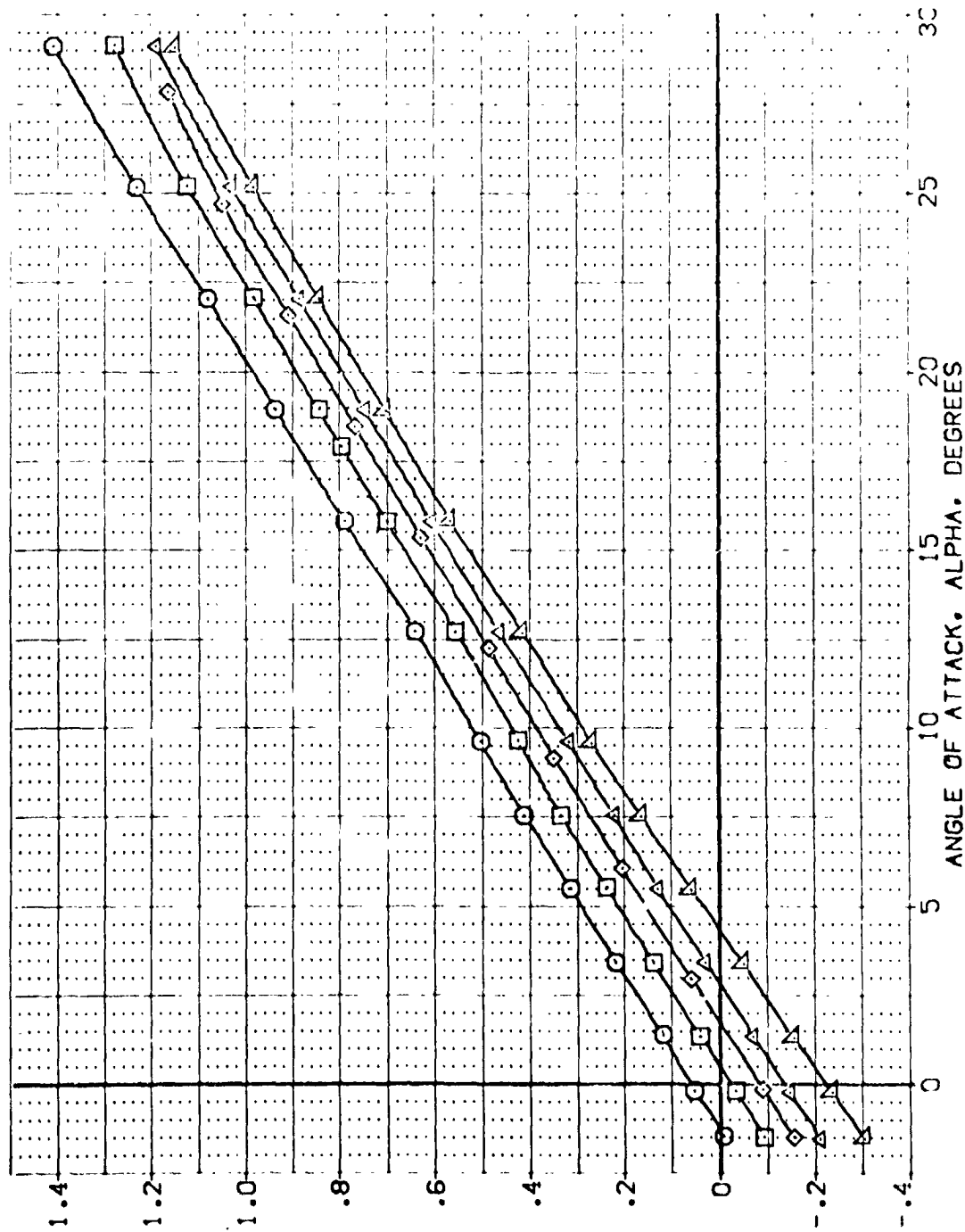


FIG. 7 ELEVON EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	WING PLANFORM	ELEVON	AIRLIFT	BD/LAP	SPOILER	REFERENCE INFORMATION
(E-003)	APC 97-747 CAS53 B C M F V	V	15.000	.000	-11.700	55.000	2.4210 SQ.FT.
(E-001)	APC 97-747 CAS53 C C M F V	V	10.000	.000	-11.700	55.000	14.2400
(E-002)	APC 97-747 CAS53 B C M F V	V	-10.000	.000	-11.700	55.000	28.1004
(E-009)	APC 97-747 CAS53 B C M F V	V	-20.000	.000	-11.700	55.000	32.0010
(E-023)	APC 97-747 CAS53 B C M F V	V	-20.000	.000	-11.700	55.000	11.2000
							SCALE

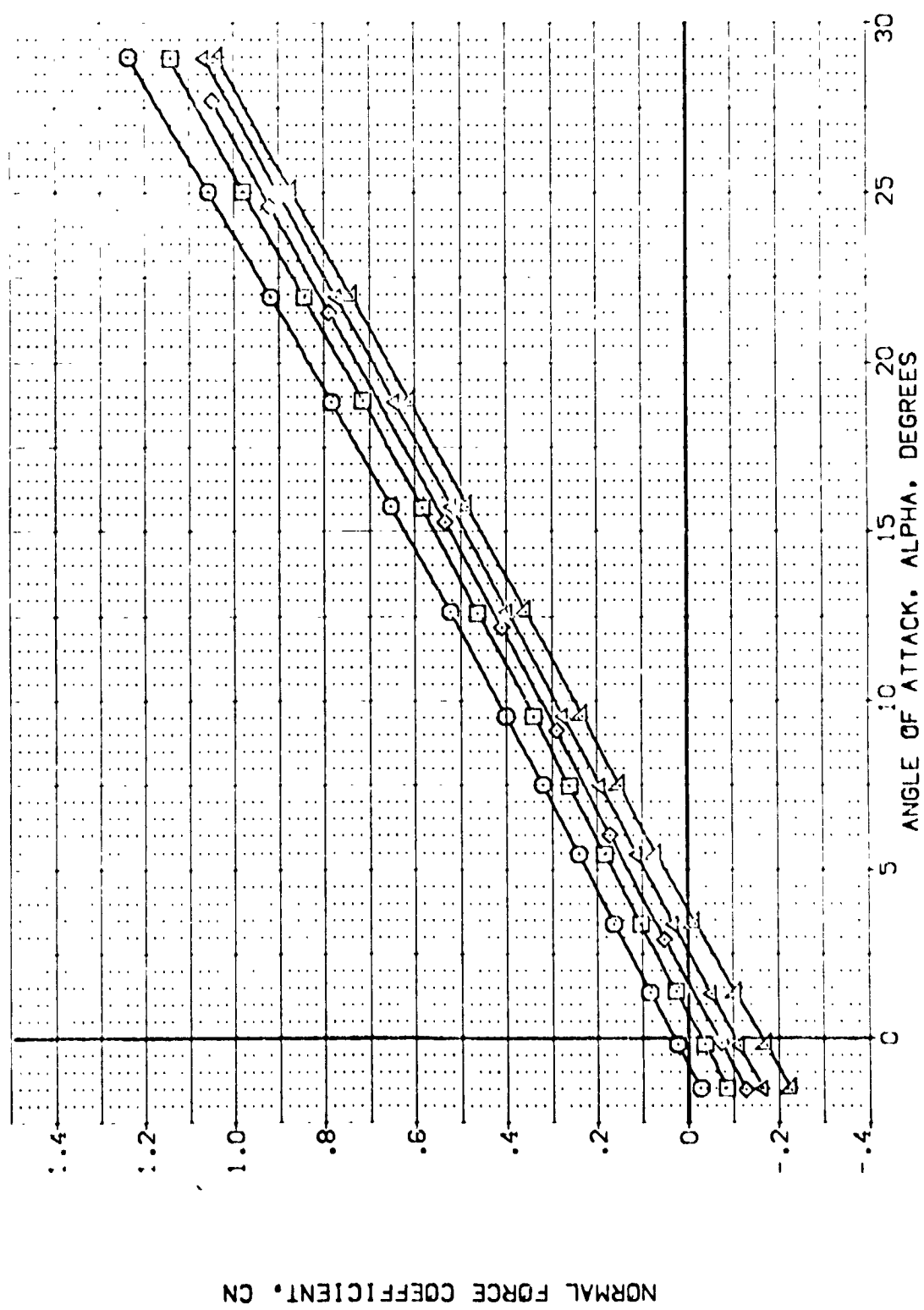


FIG. 7 ELEVON EFFECTS
(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CA538 B C M F VI V		RV/L	15.000	.000	-11.700	55.000	SRFF 2.4210
(TEK011)	ARC 97-747 CA533 B C M F VI V		RV/L	0.000	.000	-11.700	55.000	LRFF 14.2440
(TEK002)	ARC 97-747 CA533 B C M F VI V		RV/L	-10.000	.000	-11.700	55.000	CRFF 28.1004
(TEK019)	ARC 97-747 CA533 B C M F VI V		RV/L	-20.000	.000	-11.700	55.000	XRFF 92.5010
(TEK023)	ARC 97-747 CA533 B C M F VI V		RV/L		.000	-11.700	55.000	ZMFF 11.2500
								SCALE .0000
								SCALE .0000

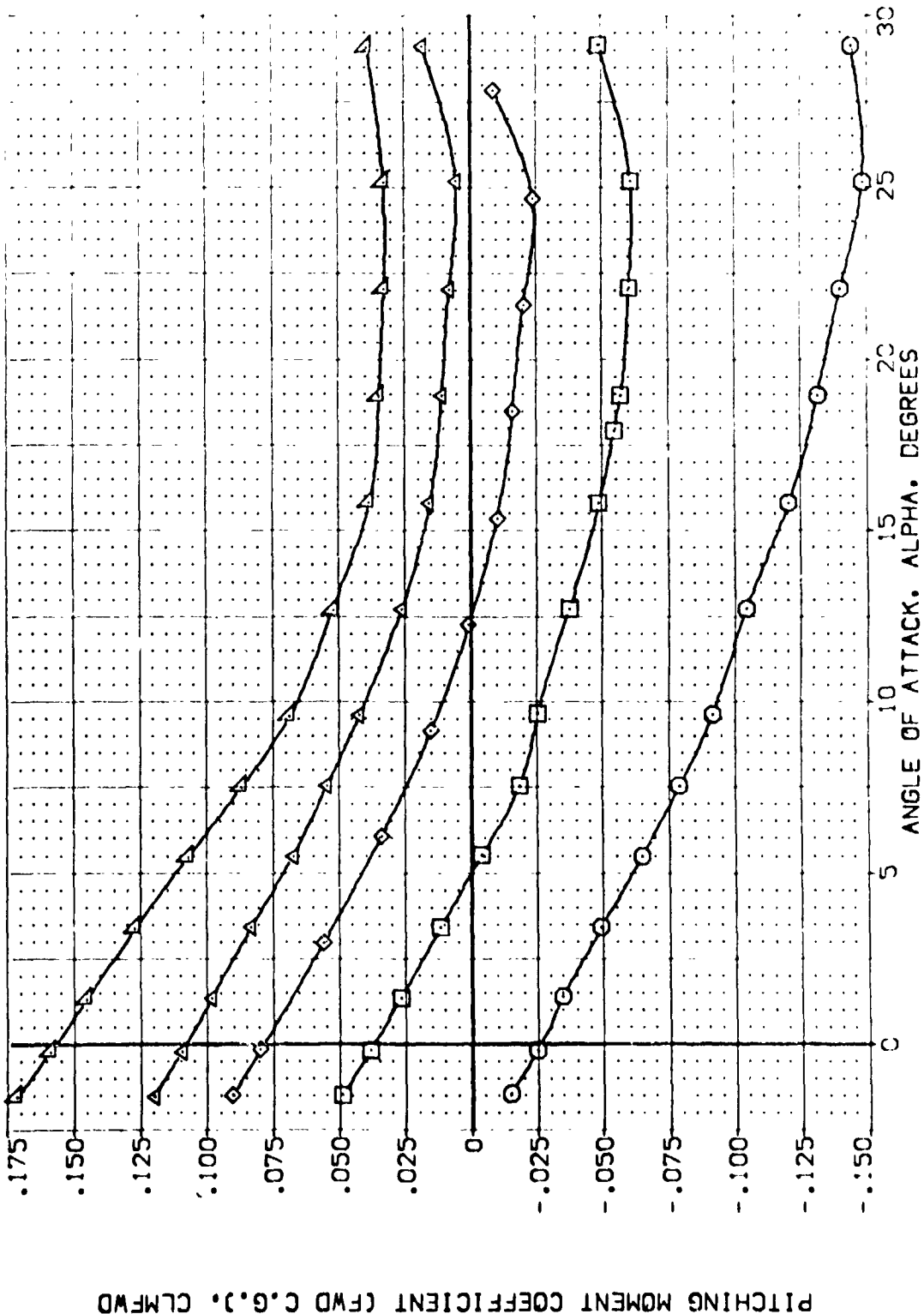
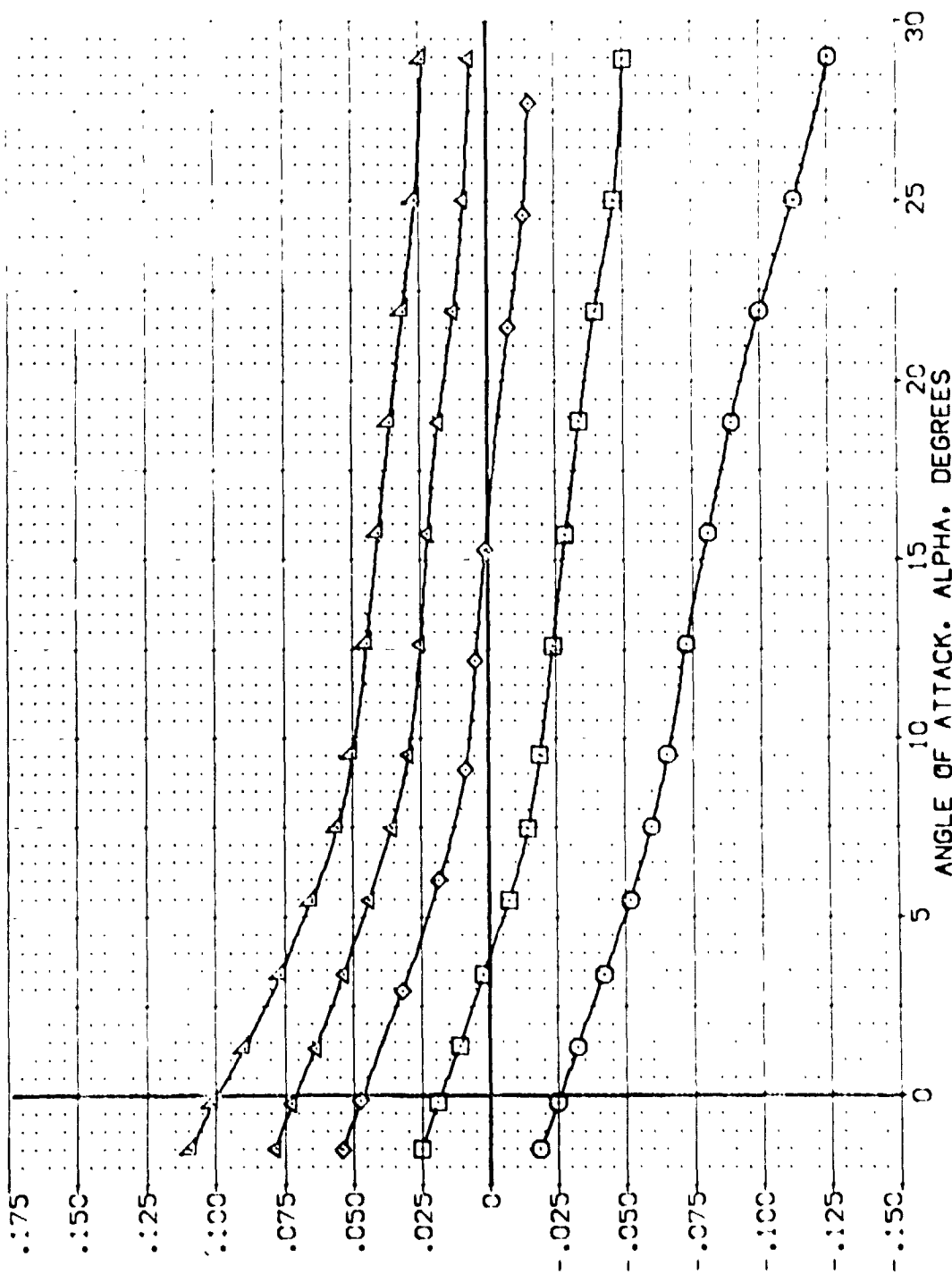


FIG. 7 ELEVON EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON. P/L	ELEVON	AILEON	EDFLAP	SPOBRK	REFERENCE INFORMATION
(1) 15003	ABC 97-747 B4503 B C M E V /	NON. P/L	15.000	.000	-.700	55.000	SCALE
(2) 15001	ABC 97-747 B4503 B C M E V /	NON. P/L	10.000	.000	-.700	55.000	SCALE
(3) 15002	ABC 97-747 B4503 B C M E V /	NON. P/L	-10.000	.000	-.700	55.000	SCALE
(4) 15019	ABC 97-747 B4503 B C M E V /	NON. P/L	-20.000	.000	-.700	55.000	SCALE
(5) 15073	ABC 97-747 B4503 B C M E V /	NON. P/L	-20.000	.000	-.700	55.000	SCALE



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

FIG. 7 ELEVON EFFECTS
(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	Y	NON.	RNVL	ELEVON	AILERON	BOFLAP	SPOBRK	SPRF	REFERENCE INFORMATION
(TEV003)	ARC 97-747 DAS38 B C M F V1 V	V	NON.	RNVL	15.000	.000	-11.700	55.000	2.4210	SC.FT.
(TEV011)	ARC 97-747 DAS38 B C M F V1 V	V	NON.	RNVL	10.000	.000	-11.700	55.000	14.2440	SC.FT.
(TEV002)	ARC 97-747 DAS38 B C M F V1 V	V	NON.	RNVL	-10.000	.000	-11.700	55.000	28.1000	SC.FT.
(TEV019)	ARC 97-747 DAS38 B C M F V1 V	V	NON.	RNVL	-20.000	.000	-11.700	55.000	32.0000	SC.FT.
(TEV023)	ARC 97-747 DAS38 B C M F V1 V	V	NON.	RNVL		.000	-11.700	55.000	11.2600	SCALE

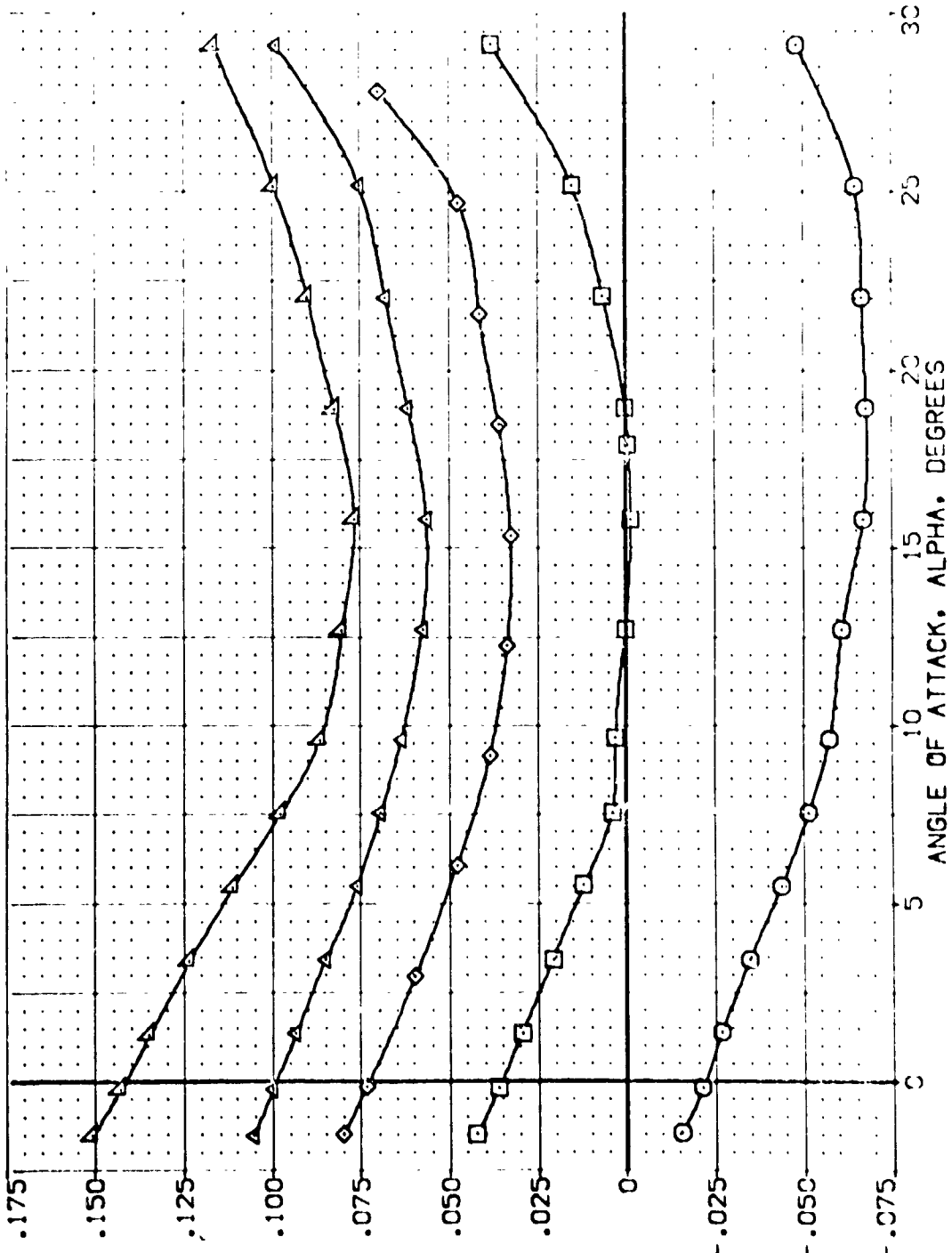


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOTES	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 CAS33 B C M F V1 V	NOM, RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 SC.FT.
(TEK011)	ARC 97-747 CAS33 B C M F V1 V	NOM, RV/L	.000	.000	-11.700	55.000	LR.F 14.2340 IN.
(TEK002)	ARC 97-747 CAS33 B C M F V1 V	NOM, RV/L	-10.000	.000	-11.700	55.000	PR.F 20.1600 IN.
(TEK019)	ARC 97-747 CAS33 B C M F V1 V	NOM, RV/L	-20.000	.000	-11.700	55.000	TR.F 32.2800 IN.
(TEK023)	ARC 97-747 CAS33 B C M F V1 V	NOM, RV/L	-20.000	.000	-11.700	55.000	YWR 11.5300 IN.
							SCALE 10000

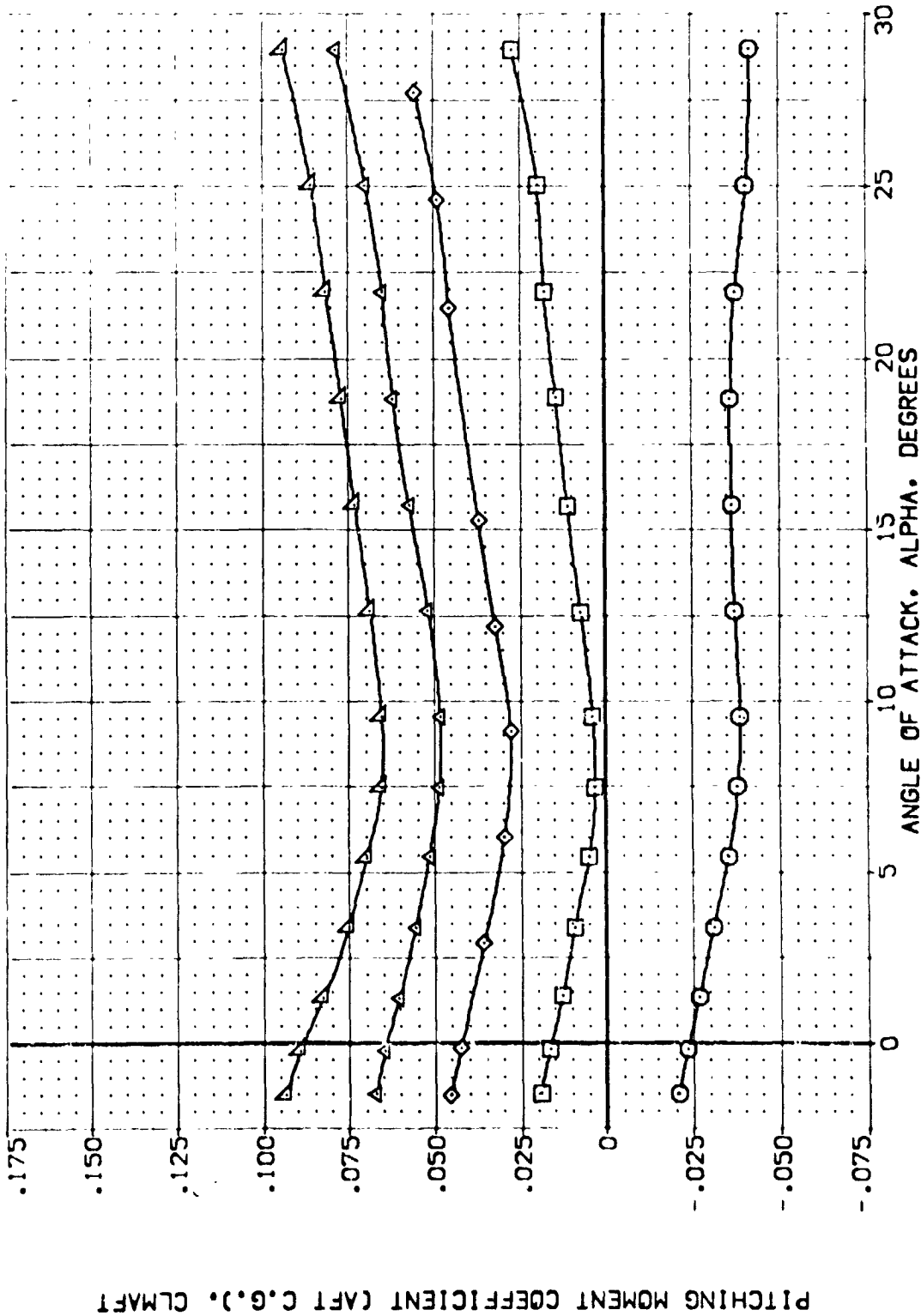


FIG. 7 ELEVON EFFECTS

(8)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 DAS38 B C M F VI V	NON.	RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 SC.FT.
(TEK011)	ARC 97-747 DAS38 B C M F VI V	NON.	RV/L	10.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK002)	ARC 97-747 DAS38 B C M F VI V	NON.	RV/L	-10.000	.000	-11.700	55.000	BREF 28.1004 IN.
(TEK019)	ARC 97-747 DAS38 B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	XREF 37.5310 IN.
(TEK023)	ARC 97-747 DAS38 B C M F VI V	NON.	RV/L	-20.000	.000	-11.700	55.000	ZREF 11.2500 IN.
								SCALE .0300

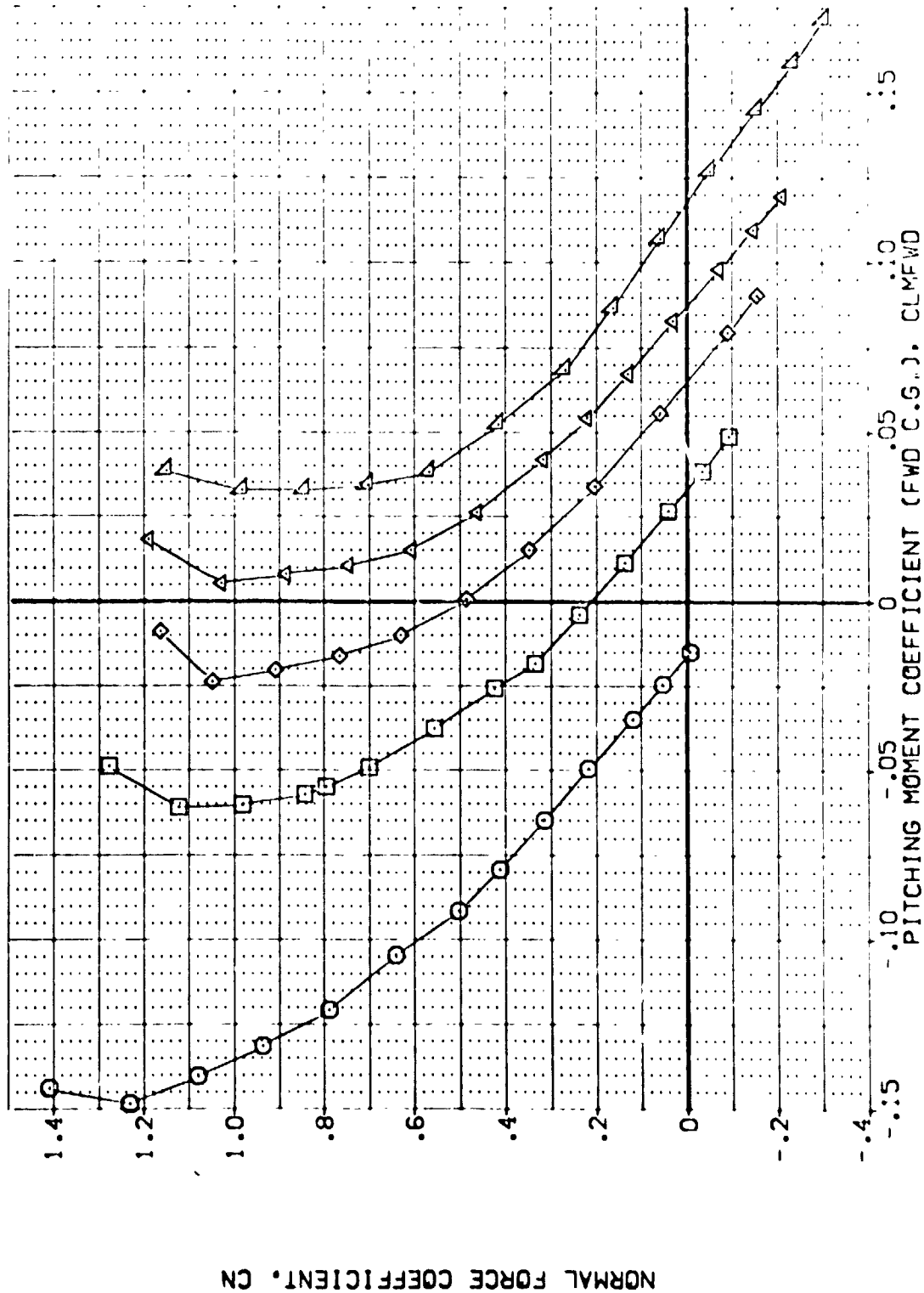


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF. INFO	SCALE
(1E-003)	ARC 97-747 CAS03 B C F V	SPREF 2.4210	SC.F.T.
(2E-003)	ARC 97-747 CAS03 B C M F V	LREF 14.7140	
(3E-003)	ARC 97-747 CAS03 B C M F V	DREF 29.4280	
(4E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(5E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(6E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(7E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(8E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(9E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(10E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(11E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(12E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(13E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(14E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(15E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(16E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(17E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(18E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(19E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(20E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(21E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(22E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(23E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(24E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(25E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(26E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(27E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(28E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(29E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(30E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(31E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(32E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(33E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(34E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(35E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(36E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(37E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(38E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(39E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(40E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(41E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(42E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(43E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(44E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(45E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(46E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(47E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(48E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(49E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(50E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(51E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(52E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
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(57E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(58E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(59E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(60E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(61E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(62E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(63E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(64E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(65E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(66E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(67E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(68E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(69E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(70E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(71E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(72E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(73E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(74E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(75E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(76E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(77E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(78E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(79E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(80E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(81E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(82E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(83E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(84E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(85E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(86E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(87E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(88E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(89E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(90E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(91E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(92E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(93E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(94E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(95E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(96E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(97E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(98E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(99E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	
(100E-003)	ARC 97-747 CAS03 B C M F V	ZREF 32.0000	

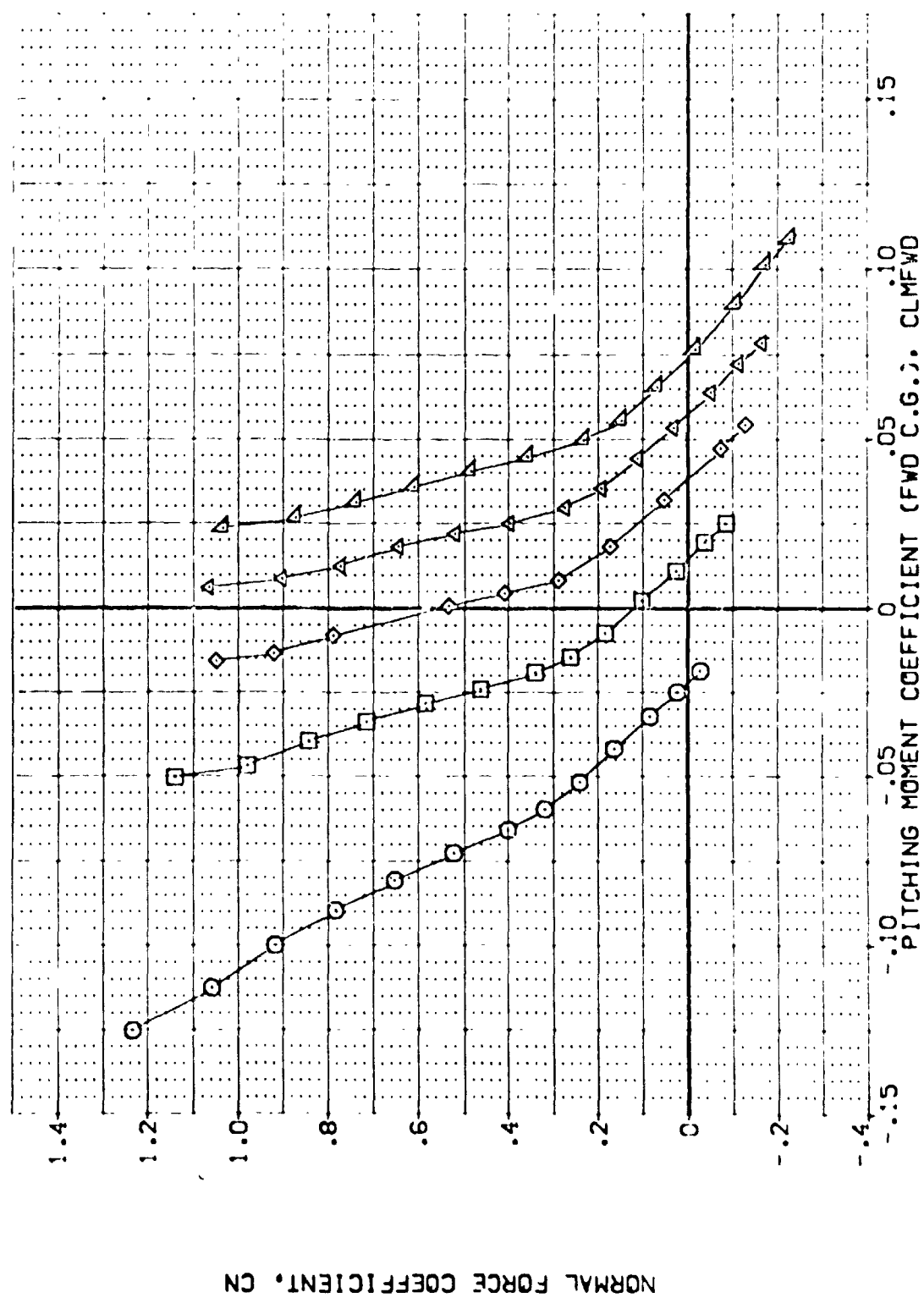


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRK	REFERENCE INFORMATION
(TEK003)	ARC 97-747 DAS33 B C H F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 50. FT.
(TEK011)	ARC 97-747 DAS33 B C H F VI V	10.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK002)	ARC 97-747 DAS33 B C H F VI V	-10.000	.000	-11.700	55.000	SREF 28.1004 IN.
(TEK019)	ARC 97-747 DAS33 B C H F VI V	-20.000	.000	-11.700	55.000	XMPD 32.3010 IN.
(TEK023)	ARC 97-747 DAS33 B C H F VI V	-30.000	.000	-11.700	55.000	YMPD 11.2000 IN.
						ZMPD 11.2000 IN.
						SCALE .0000

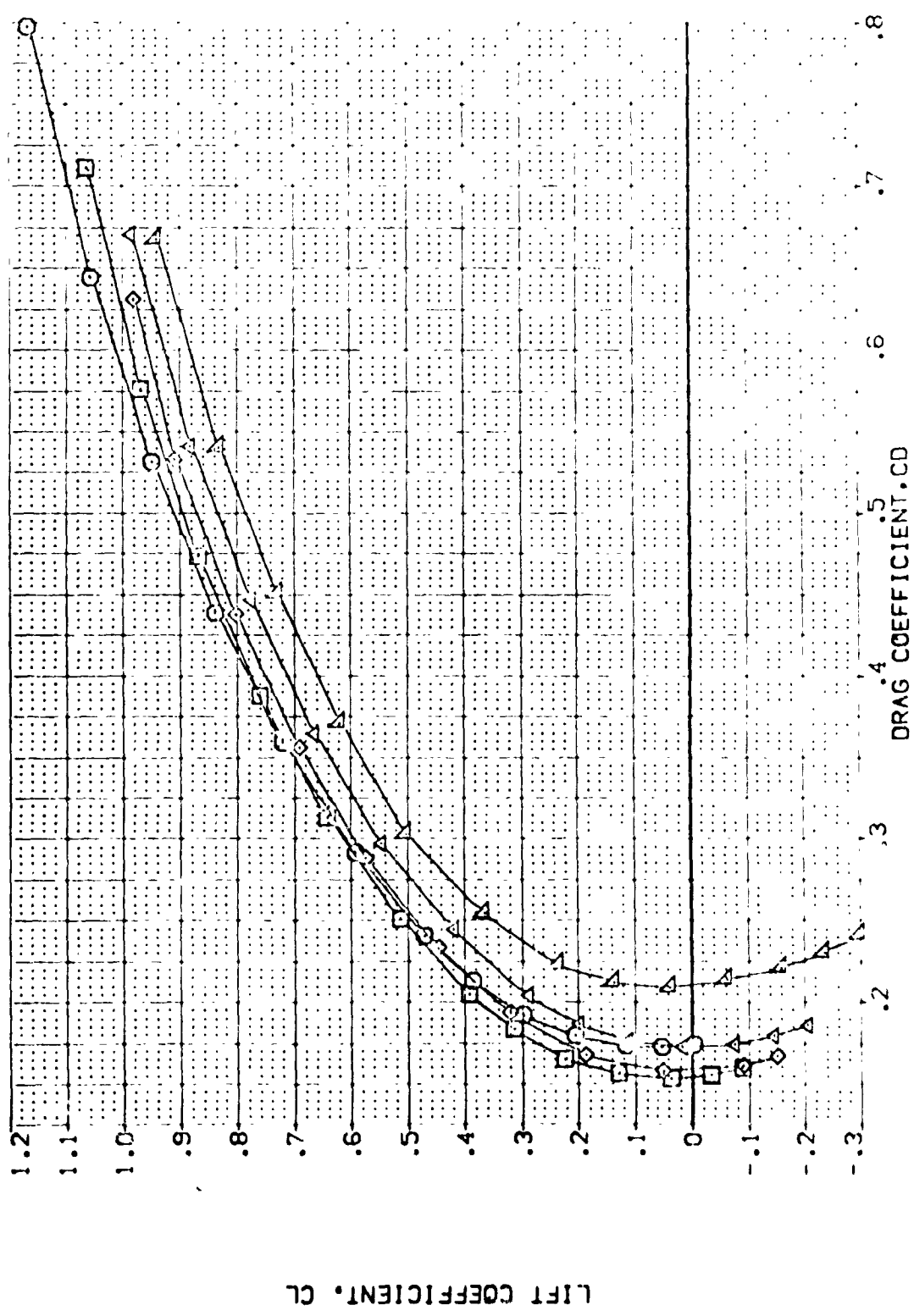


FIG. 7 ELEVON EFFECTS
(A)MACH = 0.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RVAL	ELEVON	A1LRON	BDFLAP	SPOBRK	SCALE	REFERENCE INFORMATION
(TEP003)	ARC 97-747 CAS38 B C M F VI V	NON.	RVAL	15.000	.000	-11.700	55.000	2.4210	50. FT.
(TEP011)	ARC 97-747 CAS33 B C M F VI V	NON.	RVAL	10.000	.000	-11.700	55.000	14.7640	IN.
(TEP002)	ARC 97-747 CAS33 B C M F VI V	NON.	RVAL	-10.000	.000	-11.700	55.000	28.1604	IN.
(TEP019)	ARC 97-747 CAS33 B C M F VI V	NON.	RVAL	-20.000	.000	-11.700	55.000	32.8330	IN.
(TEP023)	ARC 97-747 CAS33 B C M F VI V	NON.	RVAL	-20.000	.000	-11.700	55.000	11.4500	IN.

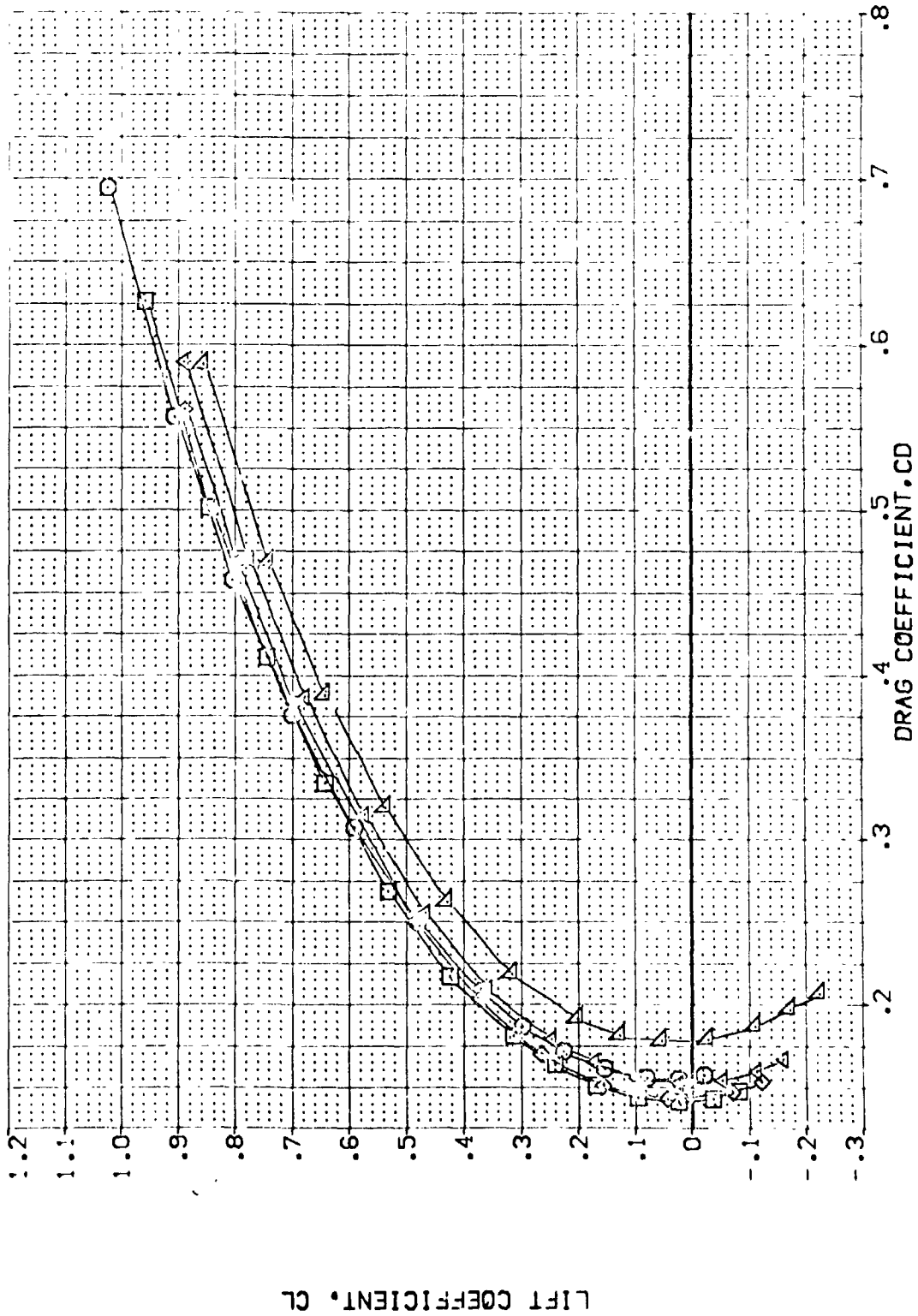


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
{TEK003}	ARC 97-747 DAS33 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{TEK011}	ARC 97-747 DAS33 B C M F VI V	.000	.000	-11.700	55.000	LRREF 14.2440 IN.
{TEK002}	ARC 97-747 DAS33 B C M F VI V	-10.000	.000	-11.700	55.000	BRREF 23.1004 IN.
{TEK013}	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XRREF 32.0010 IN.
{TEK023}	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	YRREF 11.2333 IN.
						SCALE .0333

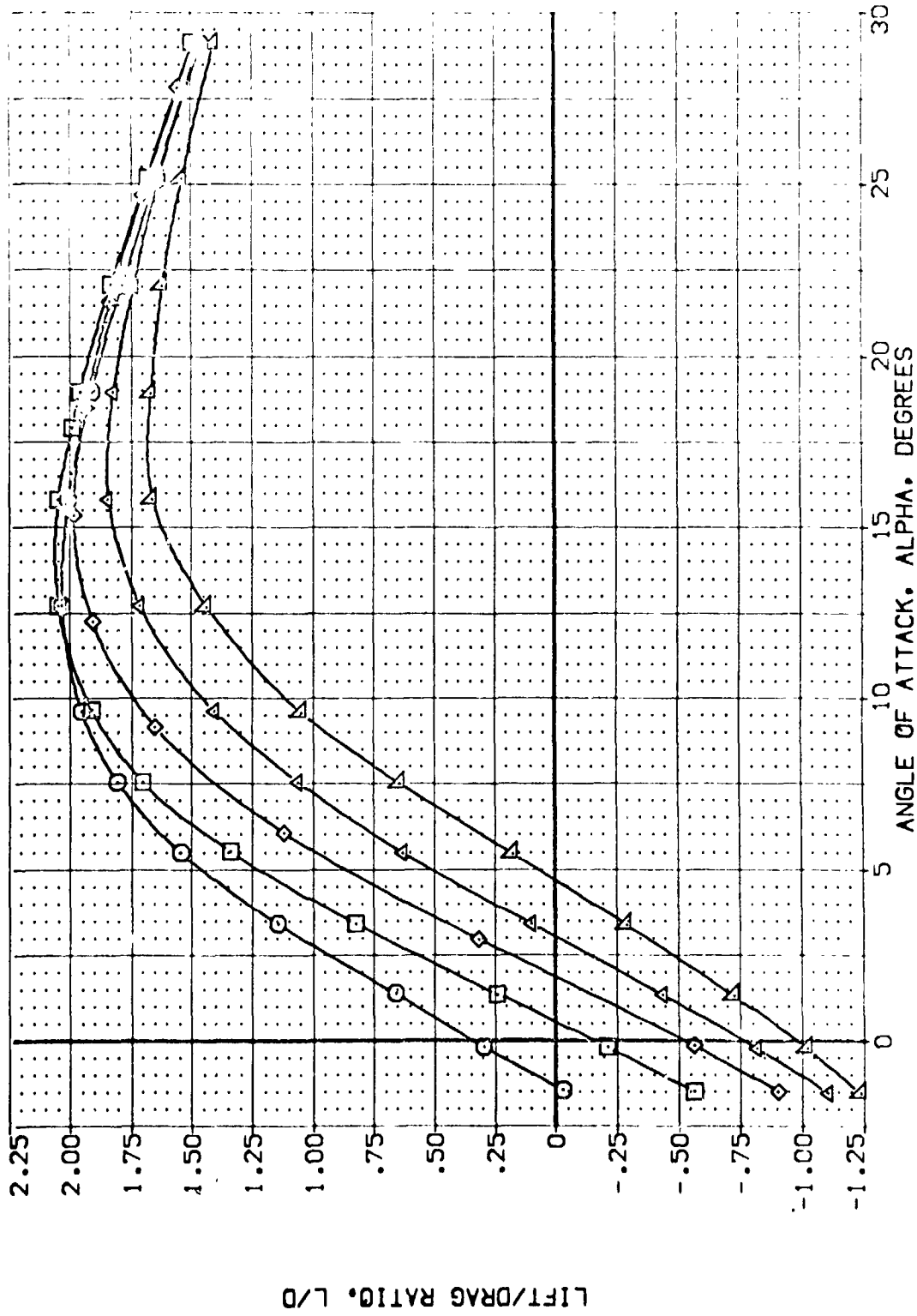


FIG. 7 ELEVON EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	R/V/L	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[1E1003]	APC 97-747 C4533 B C M F V I V	NO.	R/V/L	15.000	.000	-11.700	55.000	SREF 2.4210 SC.FT.
[1E1011]	APC 97-747 C4533 B C M F V I V	NO.	R/V/L	10.000	.000	-11.700	55.000	LRFF 14.2440 IN.
[1E1002]	APC 97-747 C4533 B C M F V I V	NO.	R/V/L	-10.000	.000	-11.700	55.000	SRFF 23.1004 IN.
[1E1019]	APC 97-747 C4533 B C M F V I V	NO.	R/V/L	-20.000	.000	-11.700	55.000	TRIP 11.2000 IN.
[1E1023]	APC 97-747 C4533 B C M F V I V	NO.	R/V/L	-20.000	.000	-11.700	55.000	YMRP 11.2000 IN.
								SCALE .00000

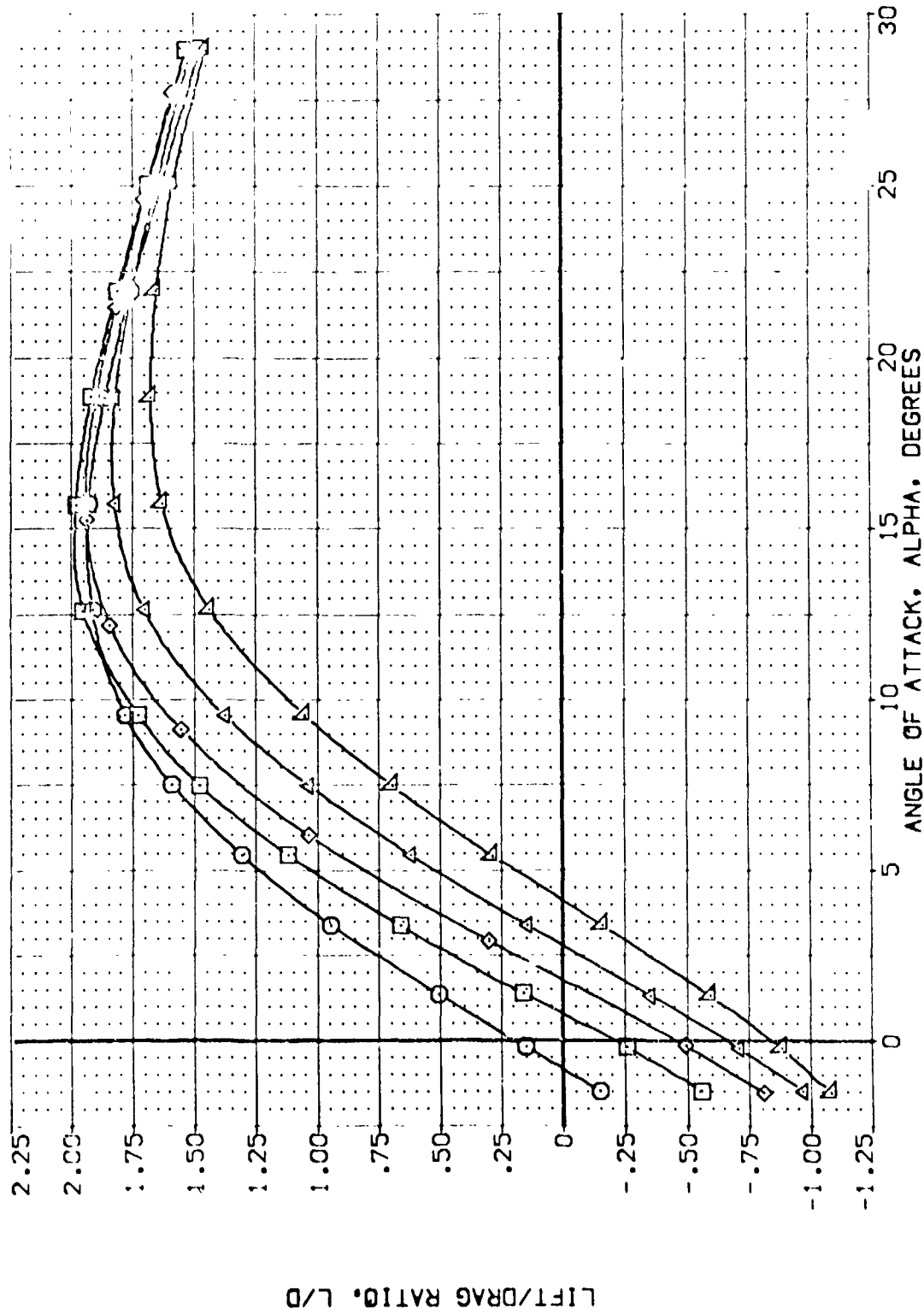


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
[AEK003]	ARC 97-747 DAS38 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
[AEK011]	ARC 97-747 DAS33 B C M F VI V	10.000	.000	-11.700	55.000	LREF 14.2440
[AEK002]	ARC 97-747 DAS33 B C M F VI V	-10.000	.000	-11.700	55.000	BREF 20.1604
[AEK019]	ARC 97-747 DAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XMRP 32.6310
[AEK023]	ARC 97-747 DAS38 B C M F VI V	-20.000	.000	-11.700	55.000	YMRP .0000
						ZMRP 11.2600
						SCALE .0000

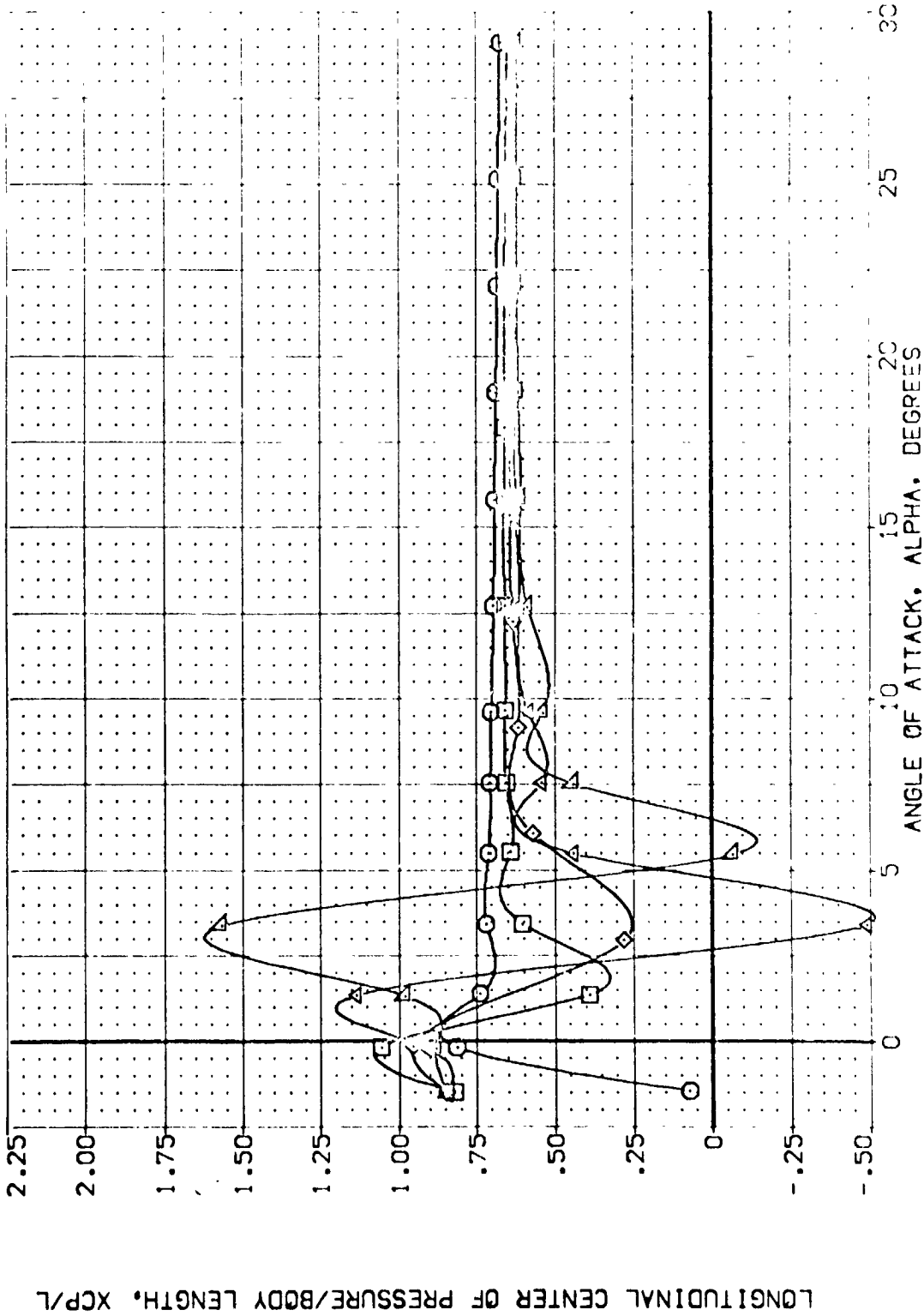


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BD/LAP	SPDRBK	REFERENCE INFORMATION
[AEP023]	ARC 97-747 CAS33 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210 SC.F.T.
[AEP011]	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
[AEP002]	ARC 97-747 CAS33 B C M F VI V	-10.000	.000	-11.700	55.000	BREF 20.1004 IN.
[AEP019]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	XREF 32.0910 IN.
[AEP029]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	YREF 48.0000 IN.
						ZREF 11.0000 IN.
						SCALE .0000

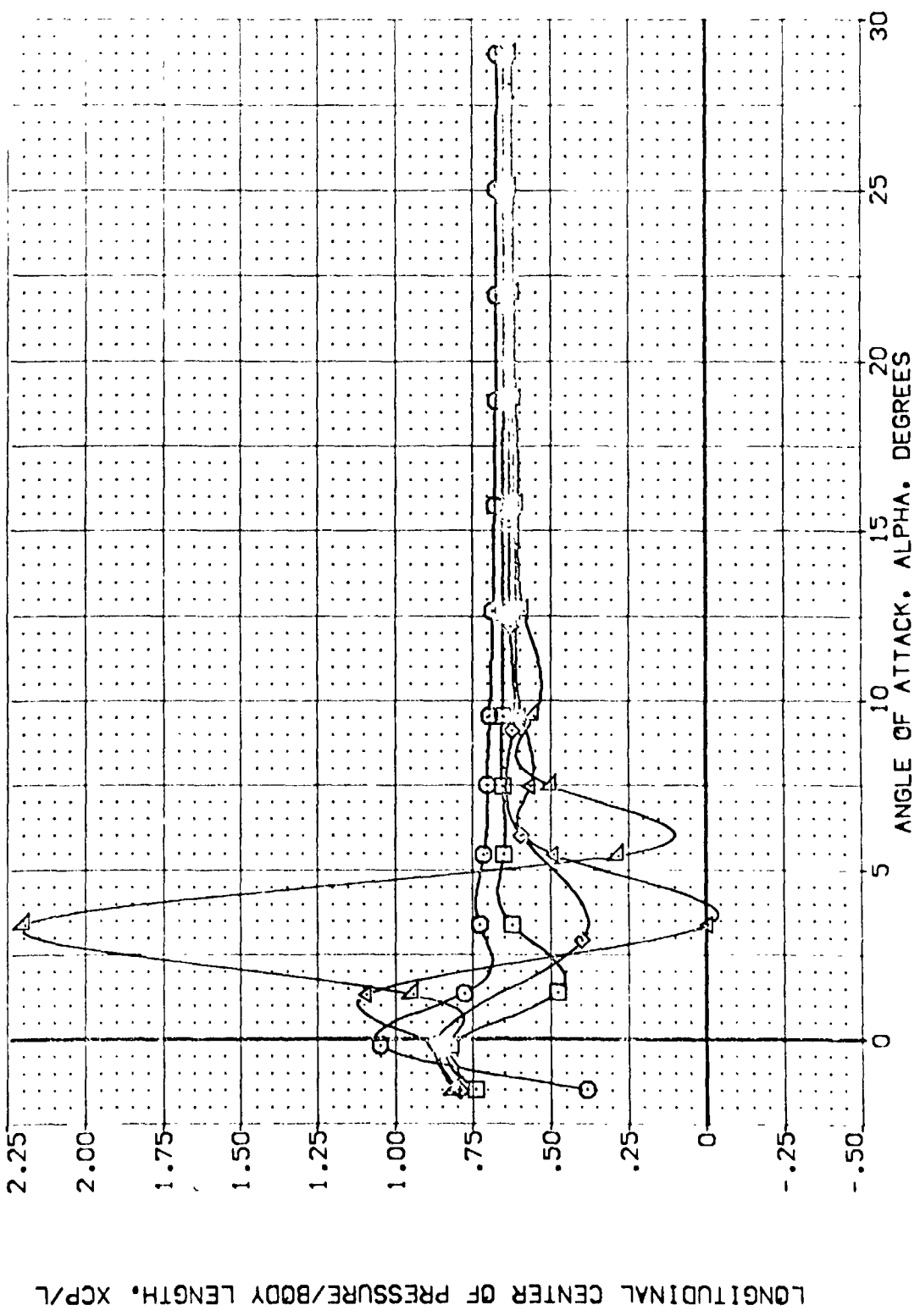


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON. RV/L	DE	AIRLON	BOFLAP	SPOSFK	REFERENCE INFORMATION
{VEP003}	ARC 97-747 CAS33 B C M F VI V	NON. RV/L	15.000	.000	-11.700	55.000	SREF 2.4210 SCLF...
{VEP002}	ARC 97-747 CAS33 B C M F VI V	NON. RV/L	-10.000	.000	-11.700	55.000	LRFF 14.2460
{VEP019}	ARC 97-747 CAS33 B C M F VI V	NON. RV/L	-20.000	.000	-11.700	55.000	LRFF 20.1600
{VEP023}	ARC 97-747 CAS33 B C M F VI V	NON. RV/L	-20.000	.000	-11.700	55.000	LRFF 32.8370
							YMRP .0250
							YMRP .0250
							ZMRP 11.7250
							SCALE .0300

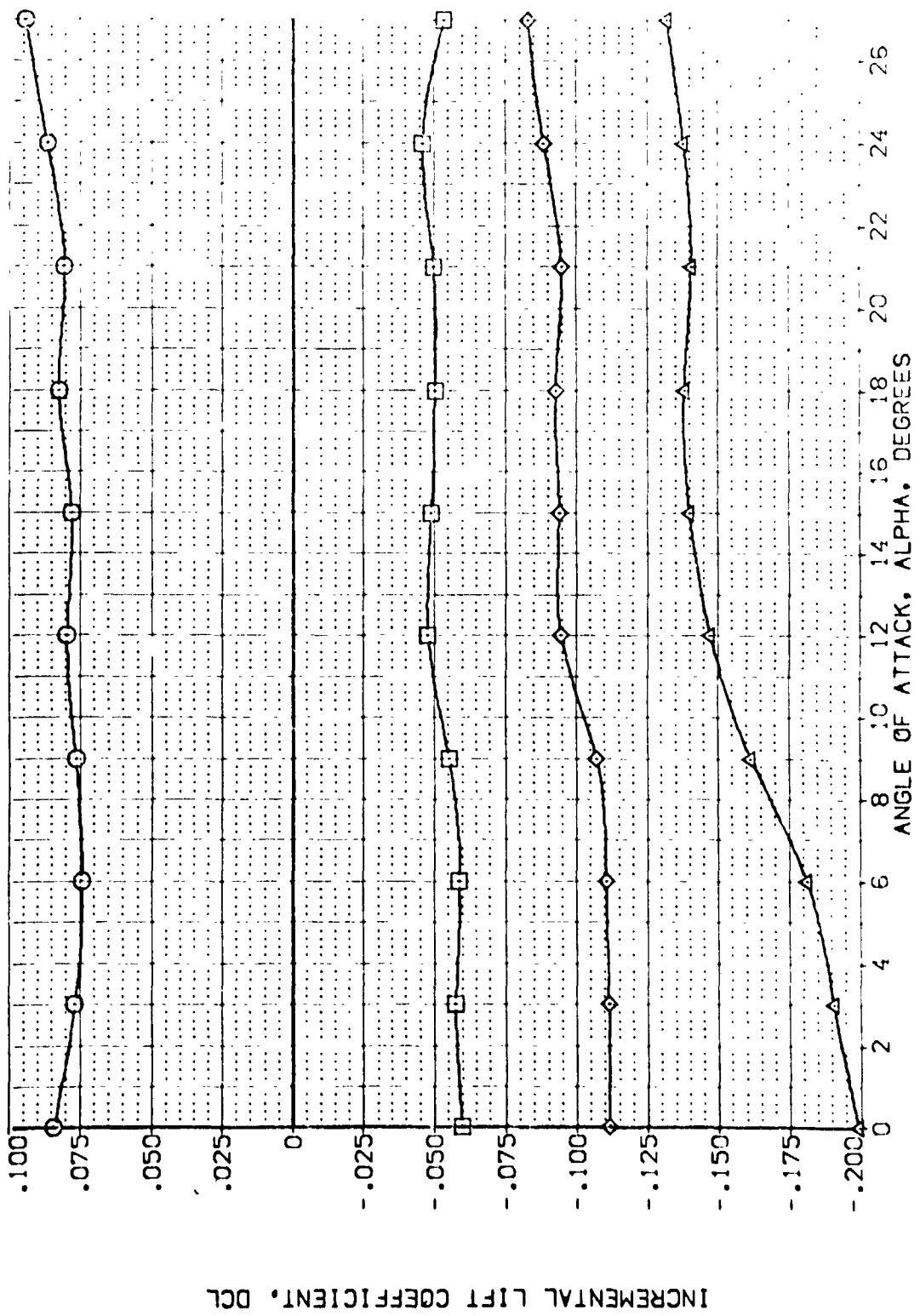
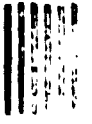


FIG. 7 ELEVON EFFECTS

(A) MACH = 1.60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRFOIL	BOFLAP	SPORON	REFERENCE INFORMATION
(P1003)	ABC 97-747 C1533 B C M F V	15.000	.000	-11.700	55.000	7.4210
(P1002)	ABC 97-747 C1533 B C M F V	-10.000	.000	-11.700	55.000	14.2140
(P1018)	ABC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	20.1200
(P1028)	ABC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	32.1250
						SCALE
						SCALE

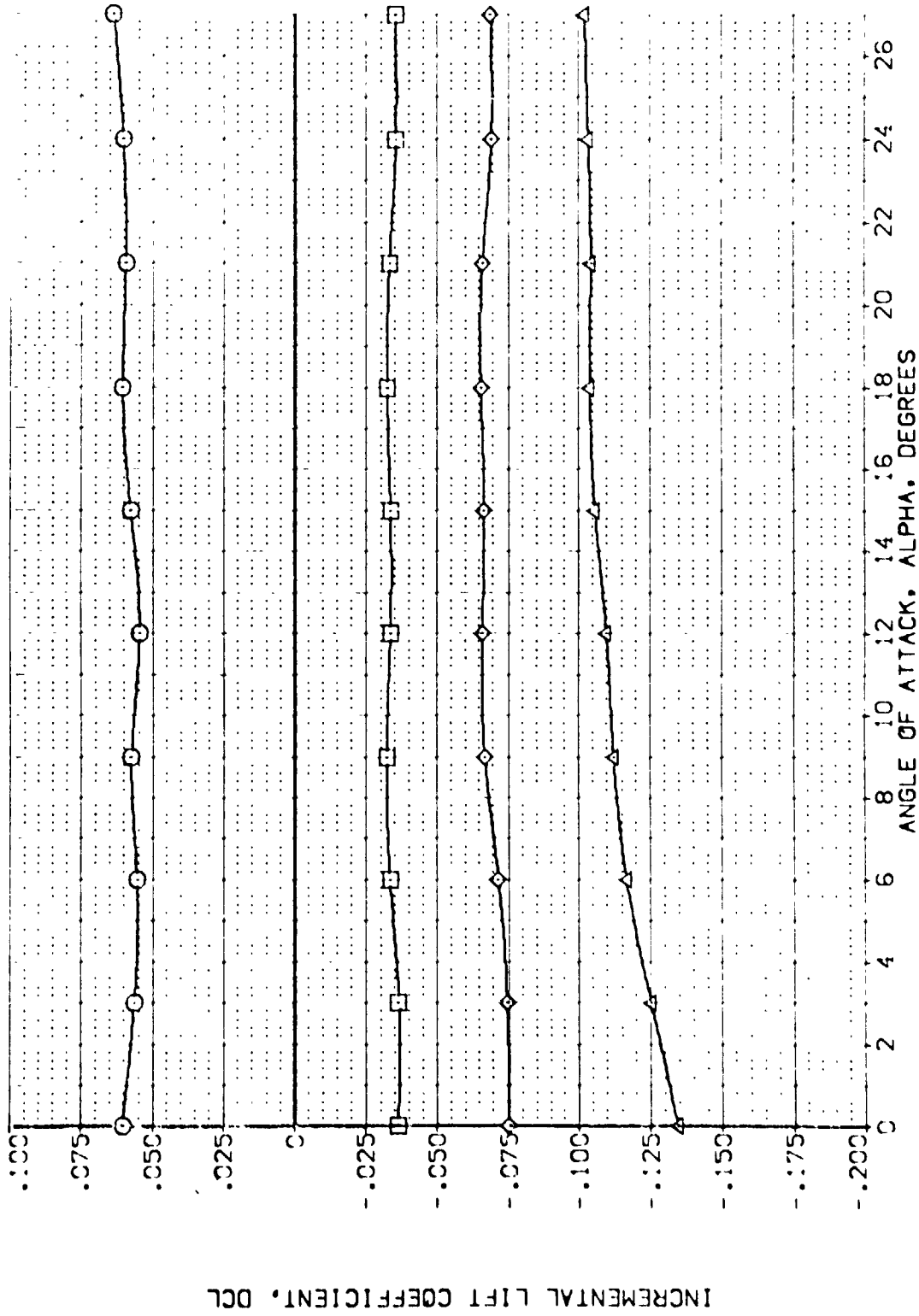


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
{VEF003}	ARC 97-747 DA523 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2-4210
{VEF002}	ARC 97-747 DA523 B C M F VI V	-10.000	.000	-11.700	55.000	LREF 14-2740
{VEF019}	ARC 97-747 DA523 B C M F VI V	-20.000	.000	-11.700	55.000	BOREF 28-1194
{VEF023}	ARC 97-747 DA523 B C M F VI V	-20.000	.000	-11.700	55.000	XREF 32-1000
						YREF 11-2000
						SCALE 11-1000

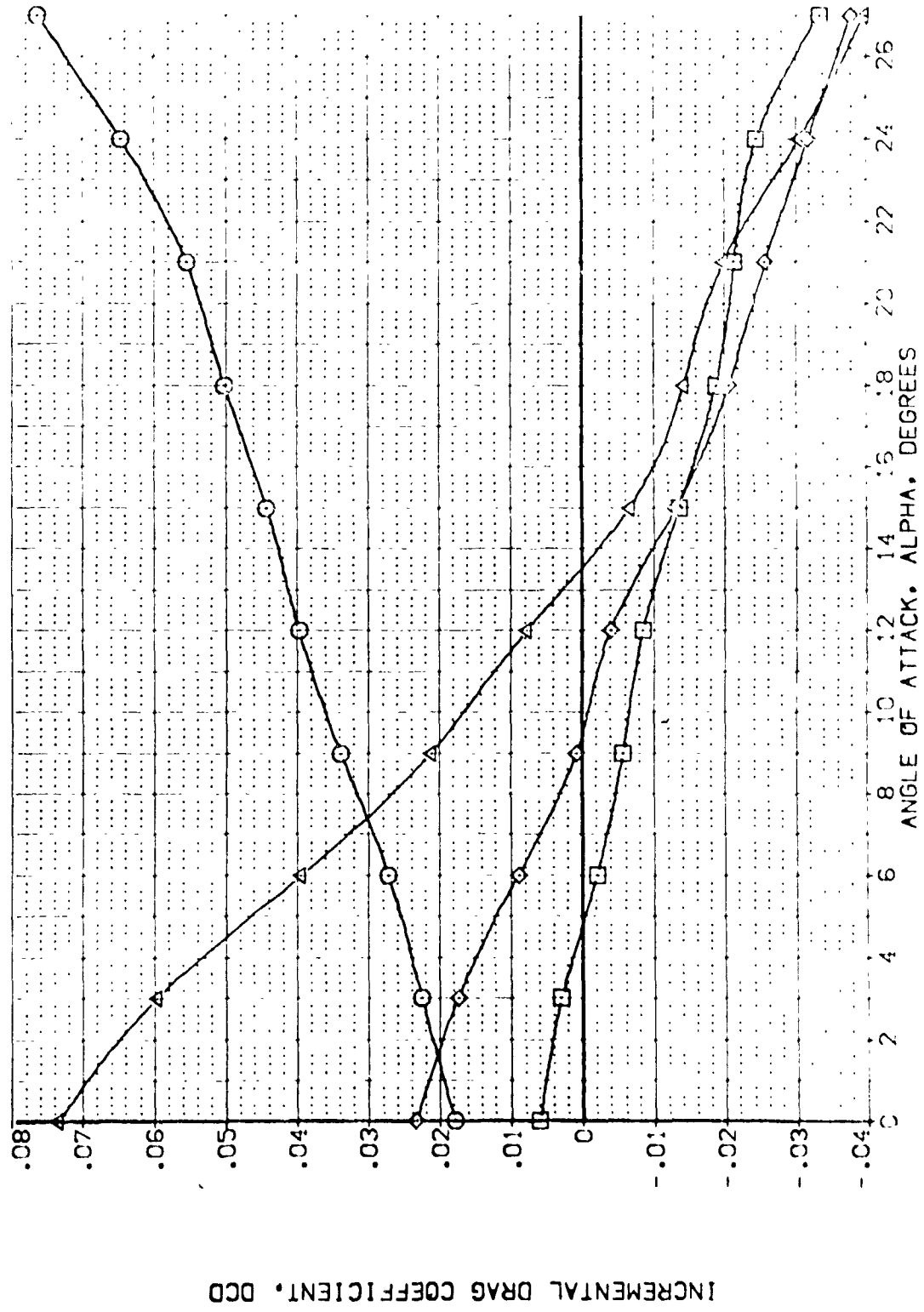


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	ALPHA	BOFLAP	SPOON	SCALE	REFERENCE INFORMATION	SCALE
1	APC 97-747 04523 3 C M F 1 1	15.000	.000	11.700	55.000	2.4210		
2	APC 97-747 04523 3 C M F 1 1	15.000	.000	11.700	55.000	14.2740		
3	APC 97-747 04523 3 C M F 1 1	-20.000	.000	11.700	55.000	20.1100		
4	APC 97-747 04523 3 C M F 1 1	-20.000	.000	11.700	55.000	32.1000		
						11.7000		
						11.7000		
						11.7000		
						11.7000		
						11.7000		

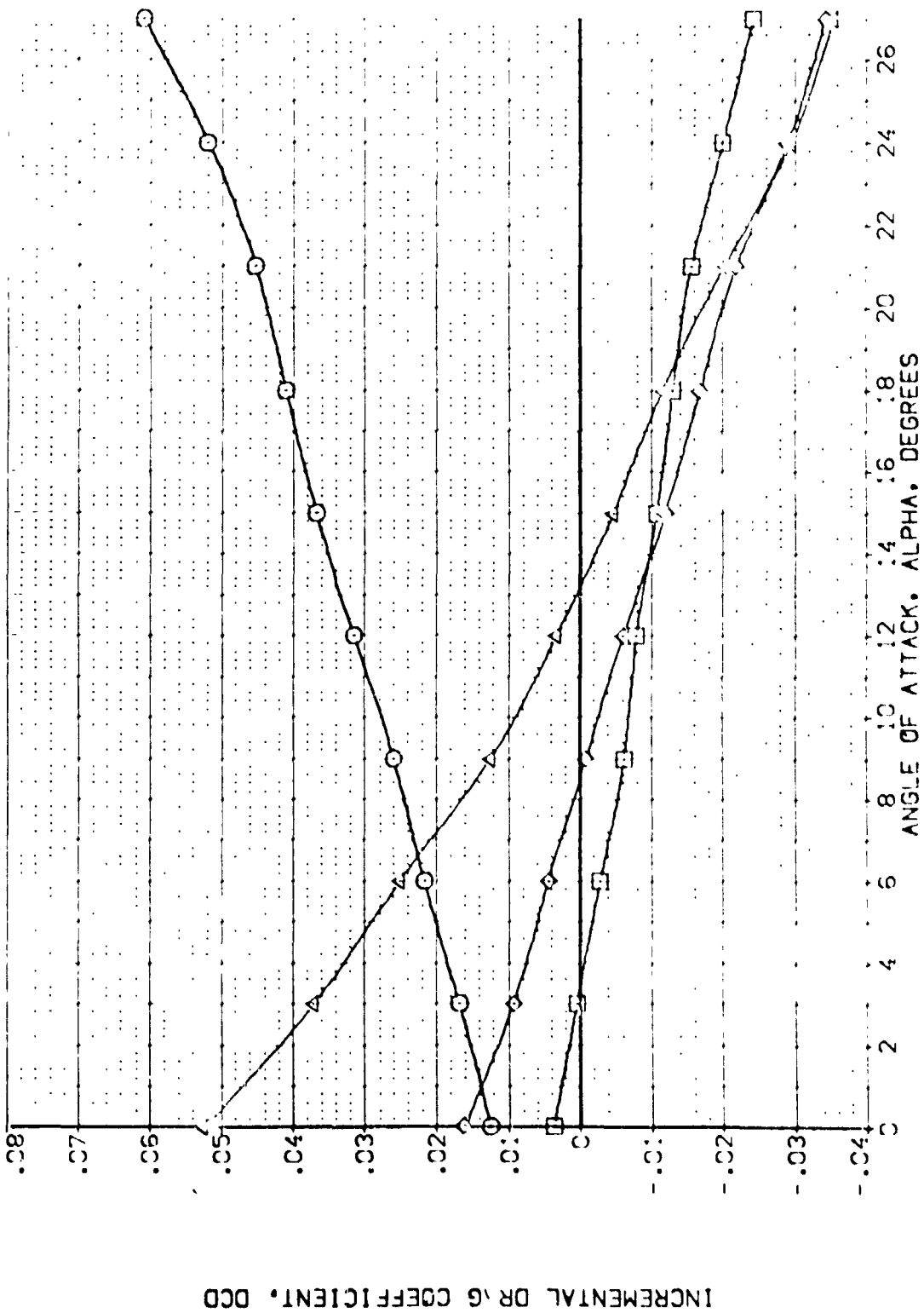


FIG. 7 ELEVON EFFECTS

(B) VACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIUPOA	BOFLAP	SPEED	REFERENCE INFORMATION
[VEP003]	ARC 97-747 CAS33 B C M F VI V	15.000	.000	-11.700	55.000	2-4210
[VEP002]	ARC 97-747 CAS33 B C M F VI V	-10.000	.000	-11.700	55.000	14-2240
[VEP019]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	20-1000
[VEP023]	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	32-1000
						MMAP
						SCALE

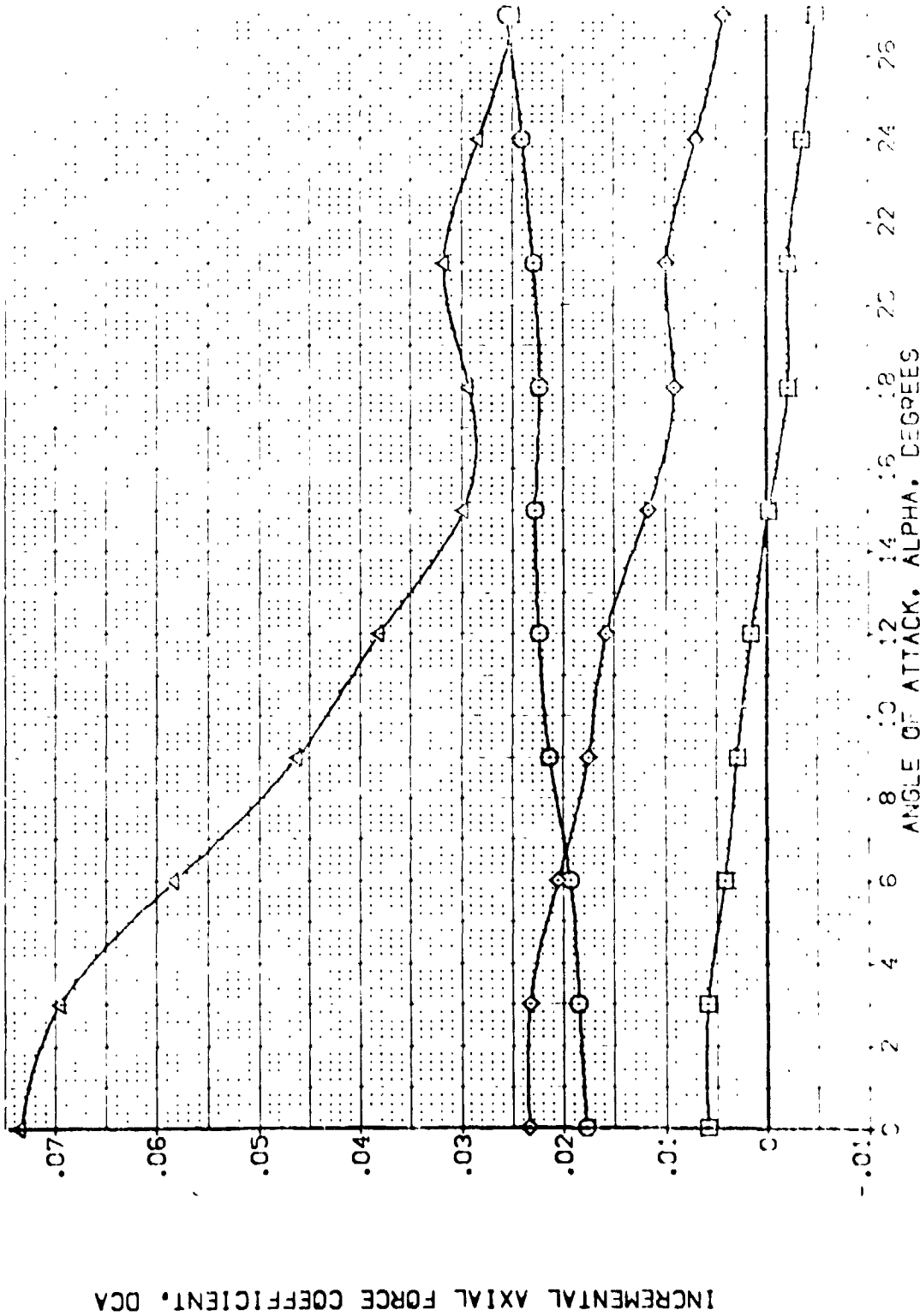


FIG. 7 ELEVON EFFECTS

(M)MACH = 1.50

INCREMENTAL AXIAL FORCE COEFFICIENT, DCA

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRTON	BOFLAP	SPOBRN	REFERENCE INFORMATION
(1) (1) (1)	ARC 97-747 01503 B C F V	15.000	.000	-11.700	55.000	SREF 2.4210
(2) (2) (2)	ARC 97-747 01503 B C F V	-16.000	.000	-11.700	55.000	LFEE 14.2440
(3) (3) (3)	ARC 97-747 01503 B C F V	-20.000	.000	-11.700	55.000	SPFE 20.1000
(4) (4) (4)	ARC 97-747 01503 B C F V		.000	-11.700	55.000	YVFB 32.1000
						YVFB 70.000
						SCALE 11.0000
						SCALE

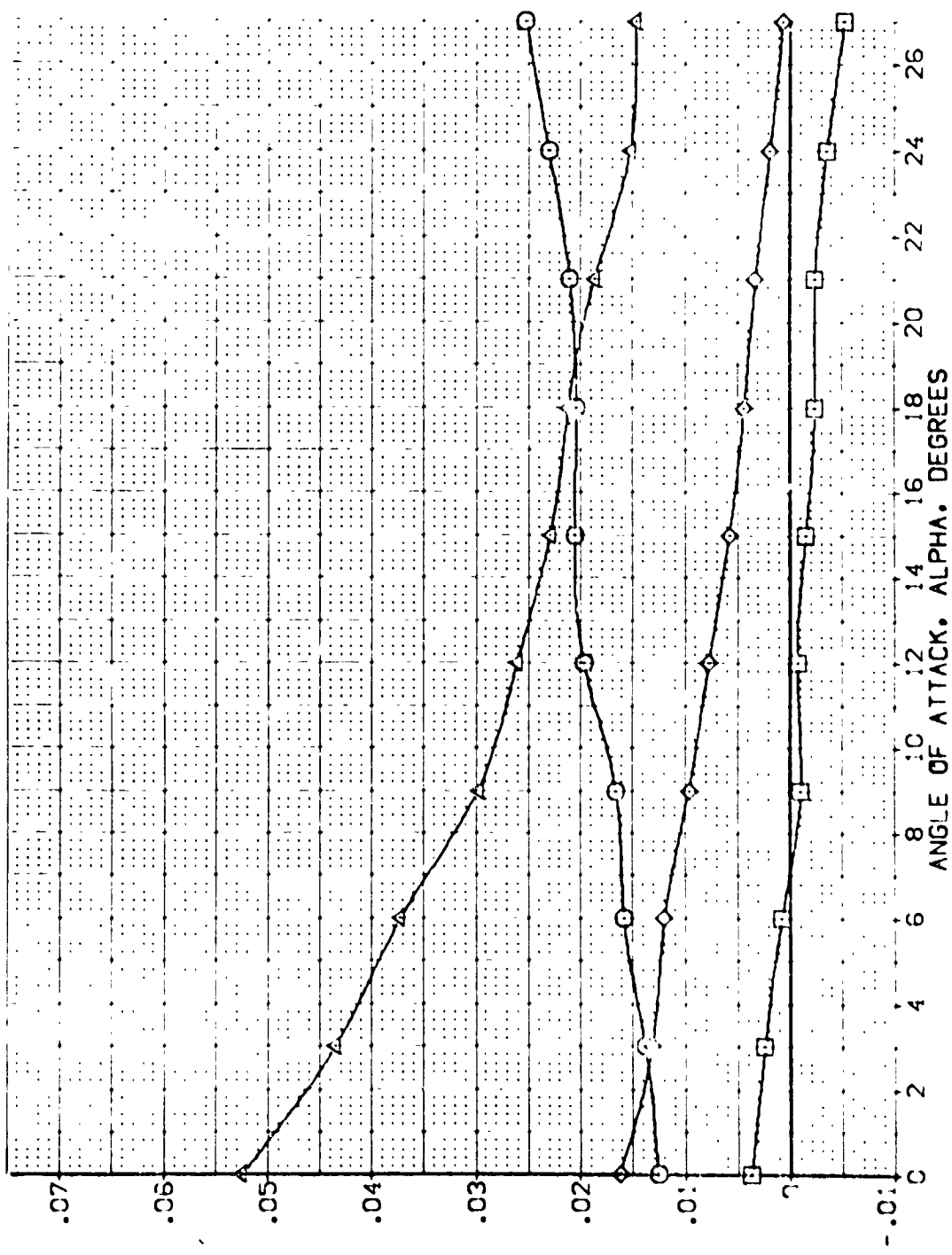


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: [VEP003] [VEP002] [VEP019] [VEP023]
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS33 B C M F V1 V [NM] RVAL [NM] RVAL [NM] RVAL [NM] RVAL
 DE: 15.000 -10.000 -20.000 -20.000
 AIRION: .000 .000 .000 .000
 BOFLAP: -11.700 -11.700 -11.700 -11.700
 SPOBRK: 55.000 55.000 55.000 55.000
 REFERENCE INFORMATION: SREF: 2.4210 SCALE: .0000
 LRYF: 14.2000
 DRYF: 20.1000
 XRAYO: 32.1000
 ZRAYO: 14.2000
 SCALE: .0000

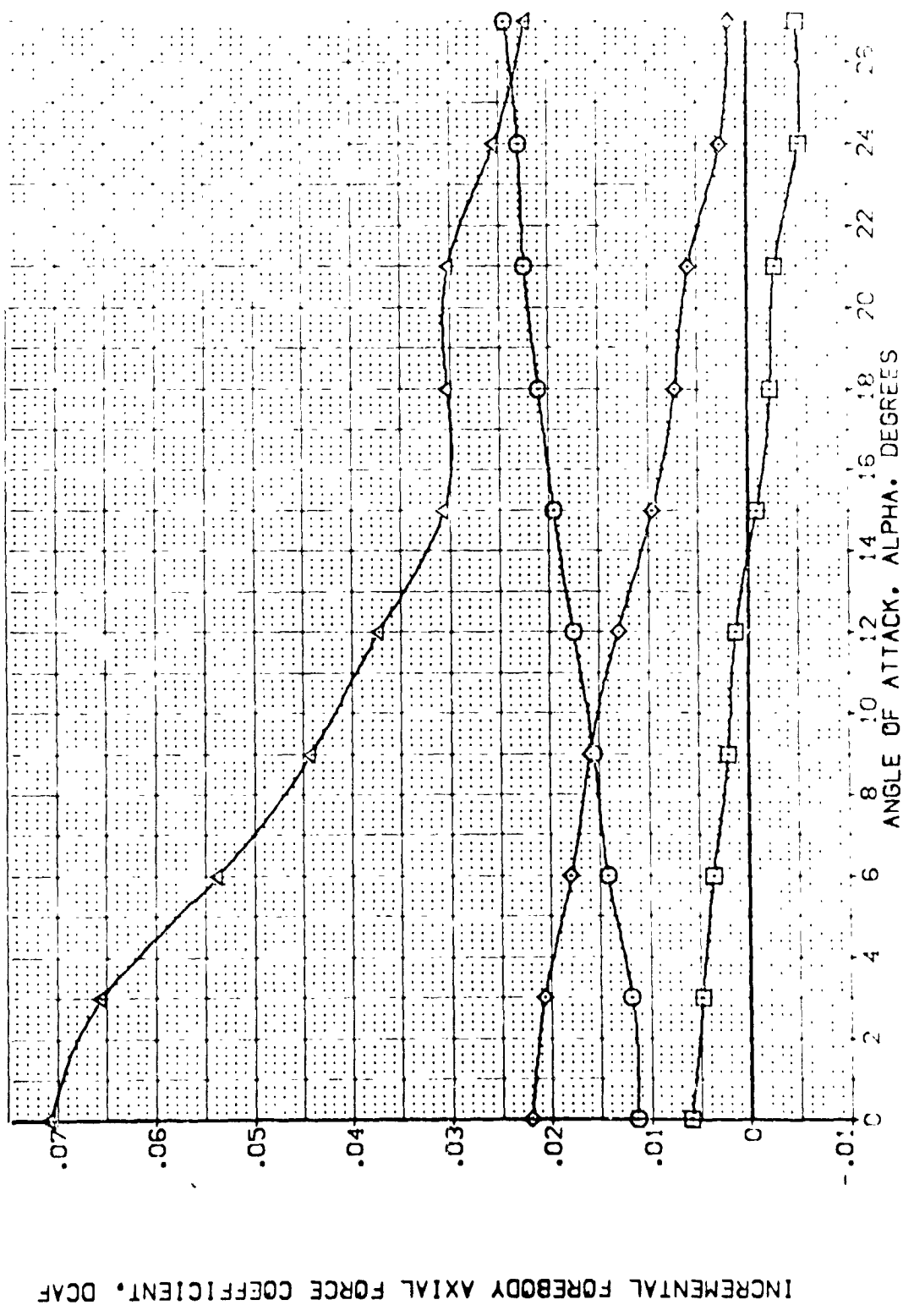


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: Q
 (VEP003)
 (VEP002)
 (VEP019)
 (VEP023)

CONFIGURATION: DESCRIPTION
 APC 97-747 C-53B B C M F VI V
 APC 97-747 C-53B B C M F VI V
 APC 97-747 C-53B B C M F VI V
 APC 97-747 C-53B B C M F VI V

DE: 15.000
 -10.000
 -20.000
 -20.000

AILRON: .000
 .000
 .000
 .000

BOFLAP: -11.700
 -11.700
 -11.700
 -11.700

SPEED: 55.000
 55.000
 55.000
 55.000

REFERENCE INFORMATION
 SREF: 2.4210 SQ.FT.
 LREF: 14.2440 IN.
 XREF: 20.1004 IN.
 YREF: 32.5310 IN.
 ZREF: 0.0000 IN.
 MREF: 11.2000 IN.
 SCALE: .0000

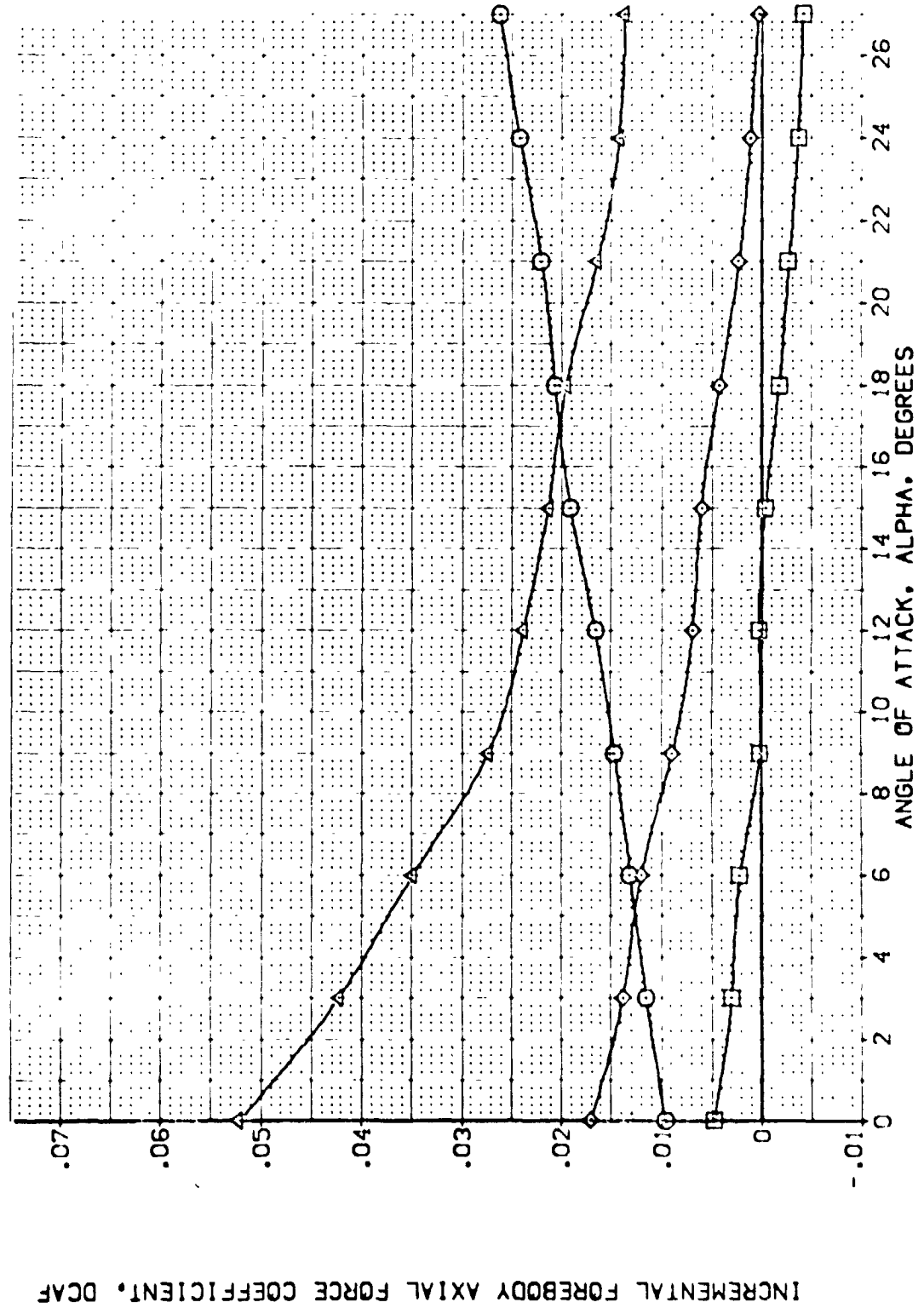
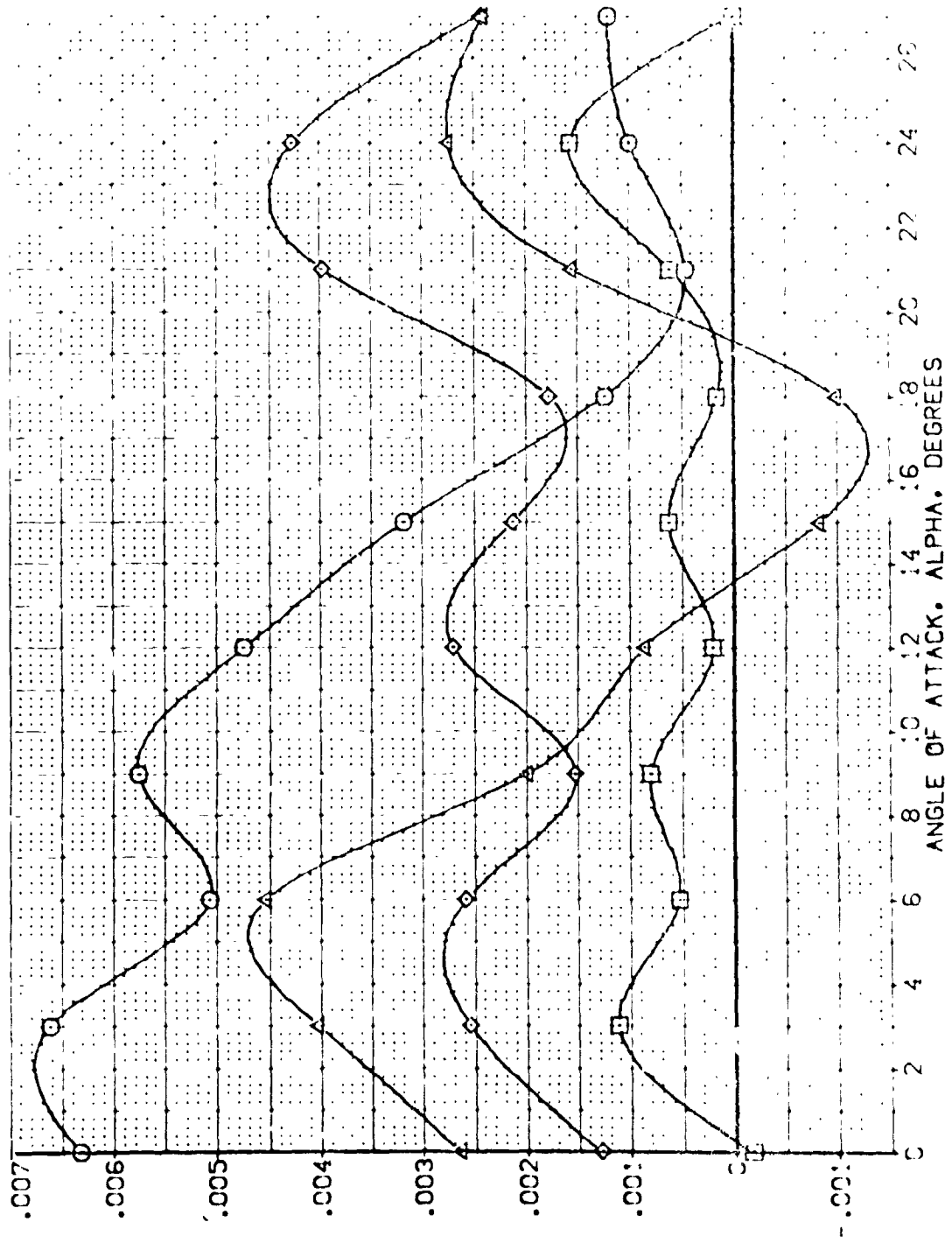


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	DE	AIRLON	BDF/LAP	SPDRBK	REFERENCE INFORMATION
[VEPC03]	ARC 97-747	04530 B C M F VI V	15.000	.000	-11.700	55.000	SREF 2.4210
[VEPC02]	ARC 97-747	04530 B C M F VI V	-10.000	.000	-11.700	55.000	LREF 14.7840
[VEPC19]	ARC 97-747	04530 B C M F VI V	-20.000	.000	-11.700	55.000	SREF 28.1004
[VEPC23]	ARC 97-747	04530 B C M F VI V	-20.000	.000	-11.700	55.000	ZREF 32.3000
							YREF 11.2000
							ZREF 11.2000
							SCALE 1.0000



INCREMENTAL BASE AXIAL FORCE COEFFICIENT, DCAB

FIG. 7 ELEVON EFFECTS

(M)MACH = 1.60



DATA SET SYMBOL CONFIGURATION DESCRIPTION DE AILRON BOFLAP SPOBRK REFERENCE INFORMATION

(VF-003)	ARC 97-747 CAS33 B C M F VI V	15.000	.000	-11.700	55.000	SREF	2.4210
(VF-007)	ARC 97-747 CAS33 B C M F VI V	-10.000	.000	-11.700	55.000	LREF	14.2410
(VF-019)	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	BREF	29.1004
(VF-023)	ARC 97-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	VMOD	92.0000
						ZMOD	11.2000
						SCALE	.0000

30. FT.

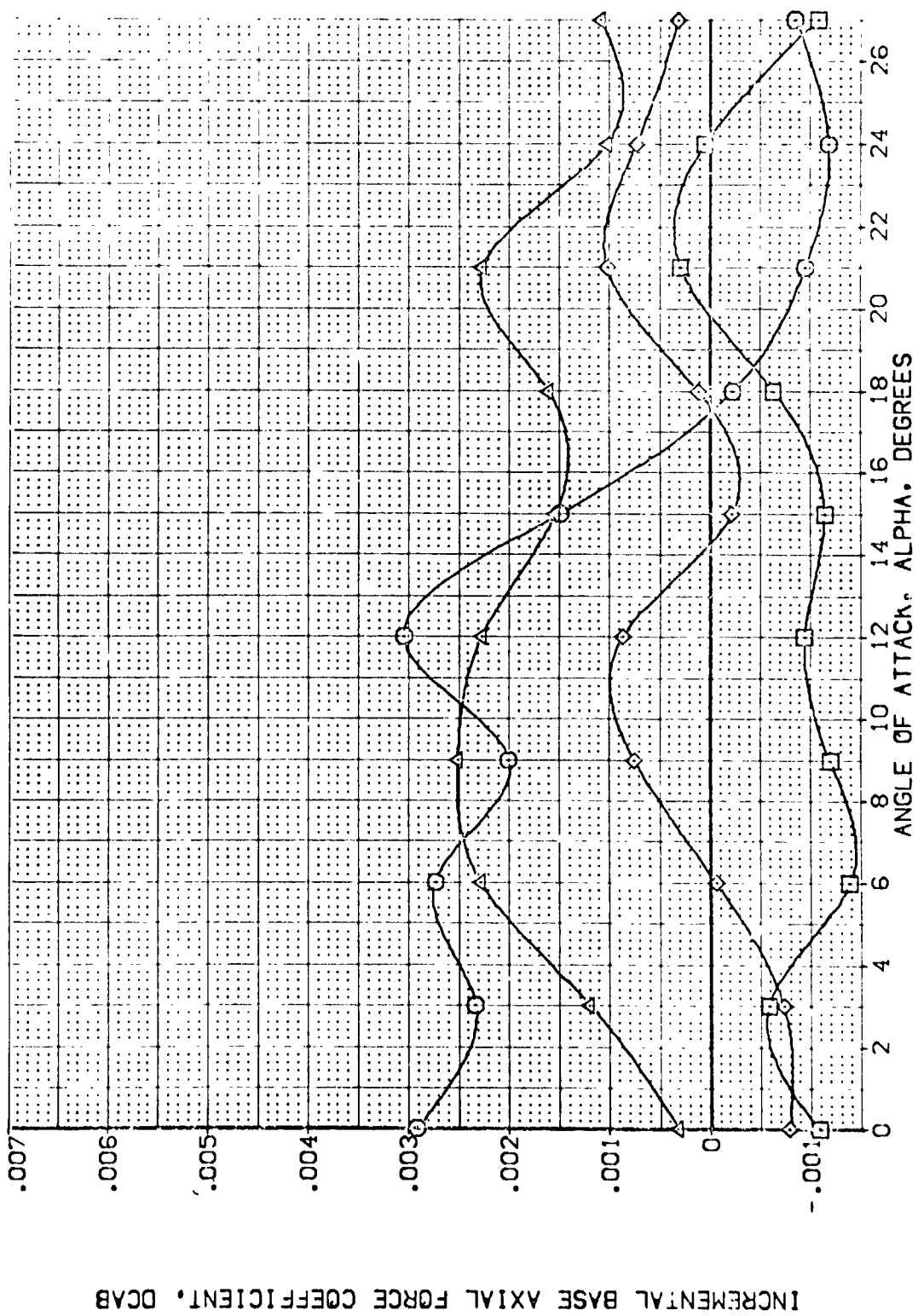


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON:	RVL	DE	AIRRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK003)	ARC 97-747 CAS33 B C M F VI V	NON:	RVL	15.000	.000	-11.700	55.000	SPEED 2.4210 SQ.FT.
(VEK002)	ARC 97-747 CAS33 B C M F VI V	NON:	RVL	-10.000	.000	-11.700	55.000	LRFC 14.2640
(VEK019)	ARC 97-747 CAS33 B C M F VI V	NON:	RVL	-20.000	.000	-11.700	55.000	SCALE 20.1000
(VEK023)	ARC 97-747 CAS33 B C M F VI V	NON:	RVL	-20.000	.000	-11.700	55.000	SCALE 52.6000
								SCALE 10.000
								SCALE 11.2500

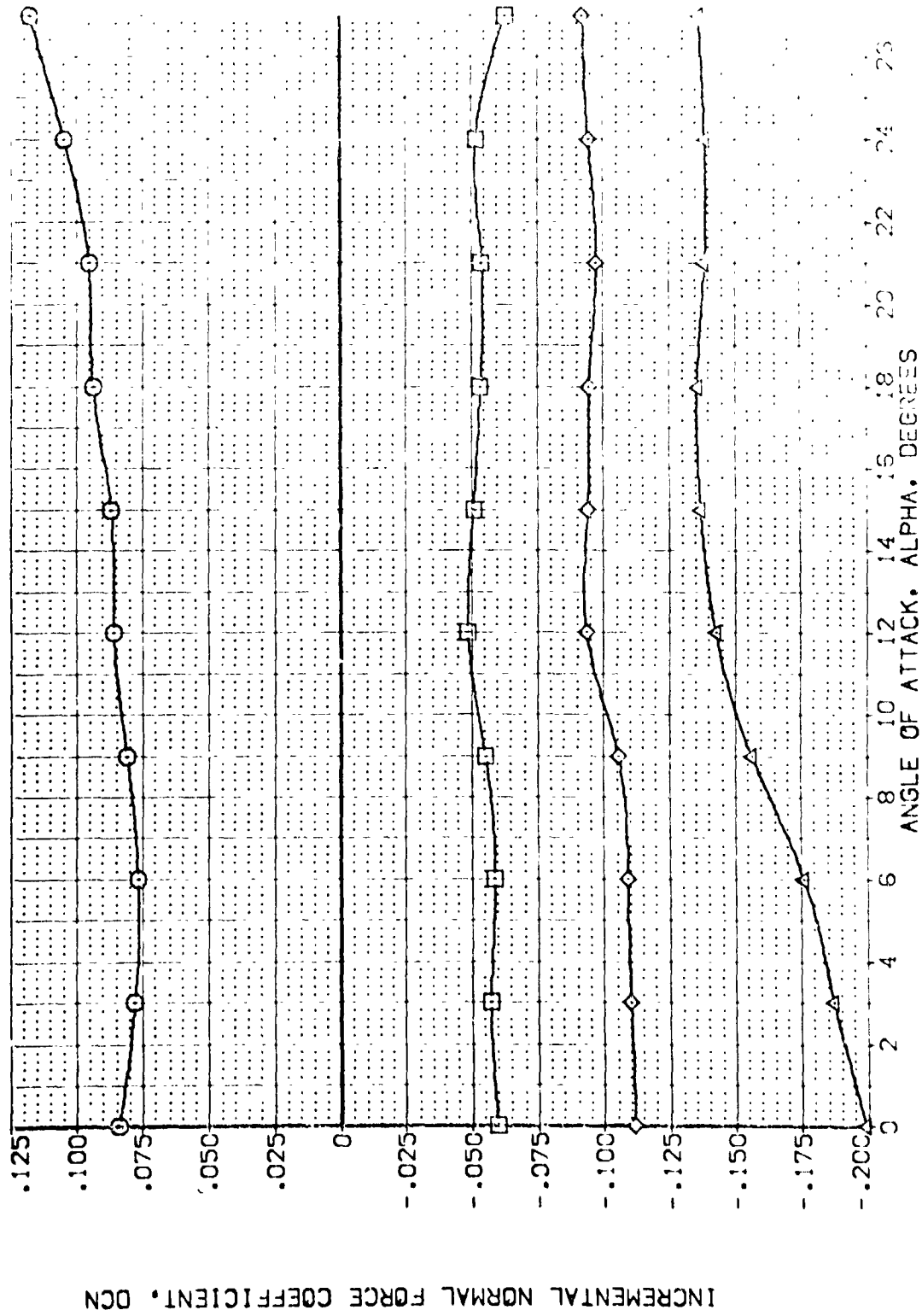


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION: REFERENCE INFORMATION:

(1) 003	ABC 97-747 3A503 B C M F M /	10M: P/V	DE	ALL PON	BOFLAP	SPOBRM	SPR	2-4210	COEFF.
(2) 002	ABC 97-747 3A503 B C M F M /	10M: P/V	-15.000	.000	-11.700	55.000	501	14.1210	1.000
(3) 001	ABC 97-747 3A503 B C M F M /	10M: P/V	-10.000	.000	-11.700	55.000	501	20.1150	1.000
(4) 002	ABC 97-747 3A503 B C M F M /	10M: P/V	-20.000	.000	-11.700	55.000	501	32.1150	1.000

SCALE SCALE SCALE SCALE SCALE

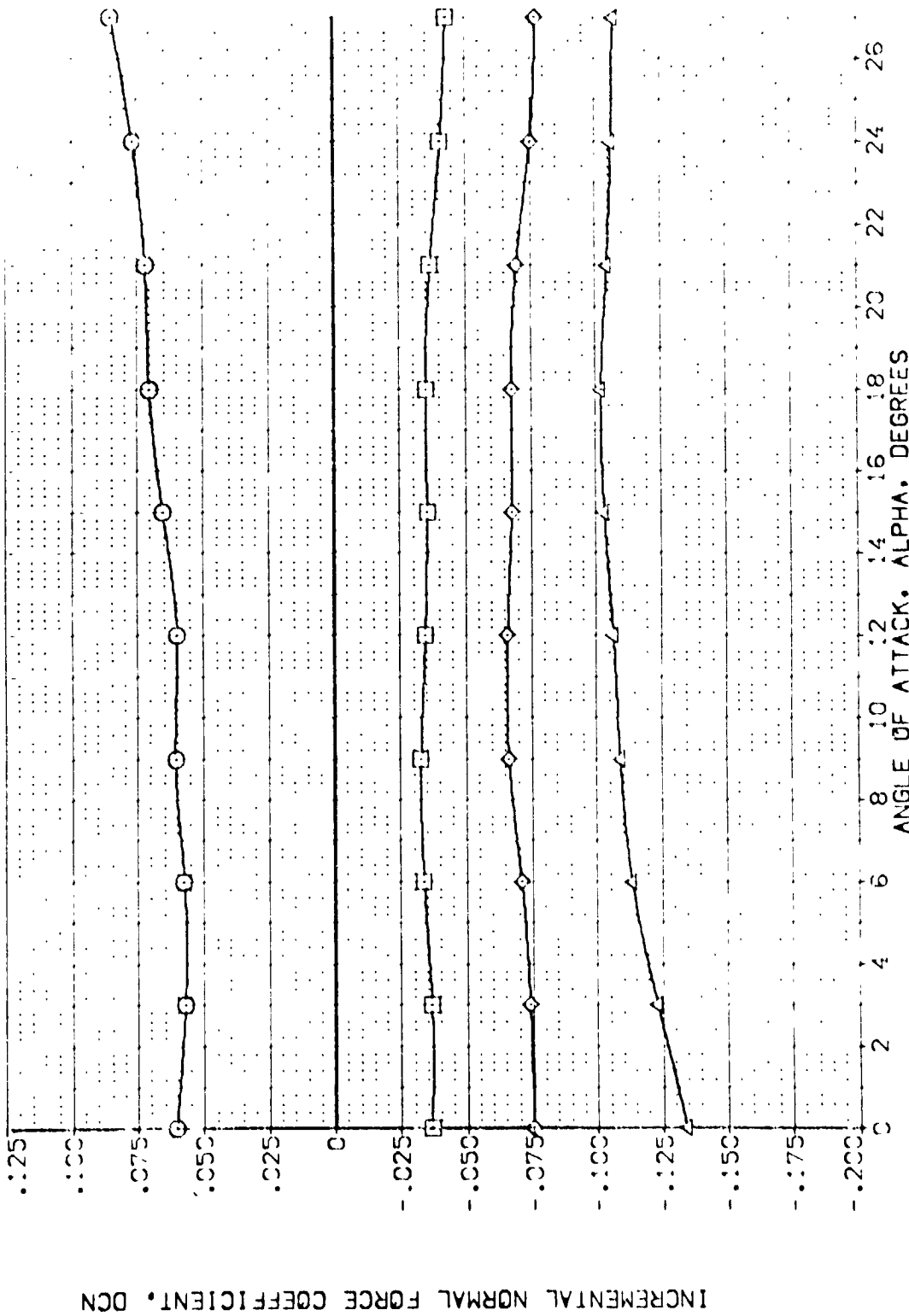


FIG. 7 ELEVON EFFECTS

(B) MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	DE	AILRON	BOFLAP	SPOSBY	REFERENCE INFORMATION
[VEK003]	ARC 97-747 GA533 B C M F VI V		RV/L	15.000	.000	-11.700	55.000	SPEF 2.4210 SCALE
[VEK002]	ARC 97-747 GA533 B C M F VI V		RV/L	-10.000	.000	-11.700	55.000	LBEP 14.2140
[VEK019]	ARC 97-747 GA533 B C M F VI V		RV/L	-20.000	.000	-11.700	55.000	EBEP 20.1070
[VEK023]	ARC 97-747 GA533 B C M F VI V		RV/L	-20.000	.000	-11.700	55.000	ZAPP 32.1000
								ZAPP 11.0000
								SCALE 10.5000

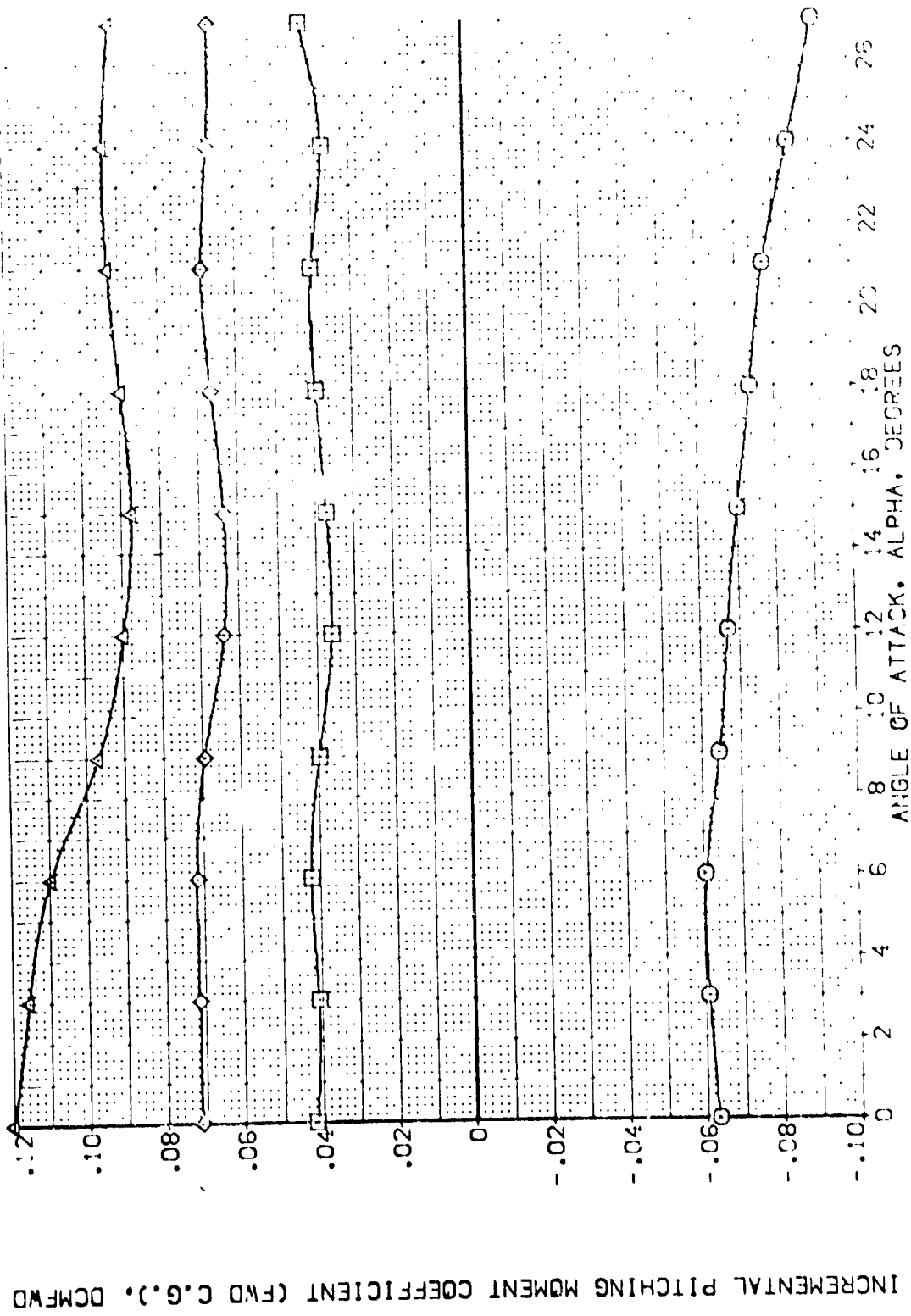


FIG. 7 ELEVON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AILERON	BOFLAP	SPOORX	REFERENCE INFORMATION
(VEK003)	ARC 57-747 CAS33 B C M F VI V	15.000	.000	-11.700	55.000	2.4210
(VEK002)	ARC 57-747 CAS33 B C M F VI V	-10.000	.000	-11.700	55.000	14.2410
(VEK019)	ARC 57-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	23.1004
(VEK023)	ARC 57-747 CAS33 B C M F VI V	-20.000	.000	-11.700	55.000	32.3010
						11.2000
						11.2000
						SCALE
						SCALE

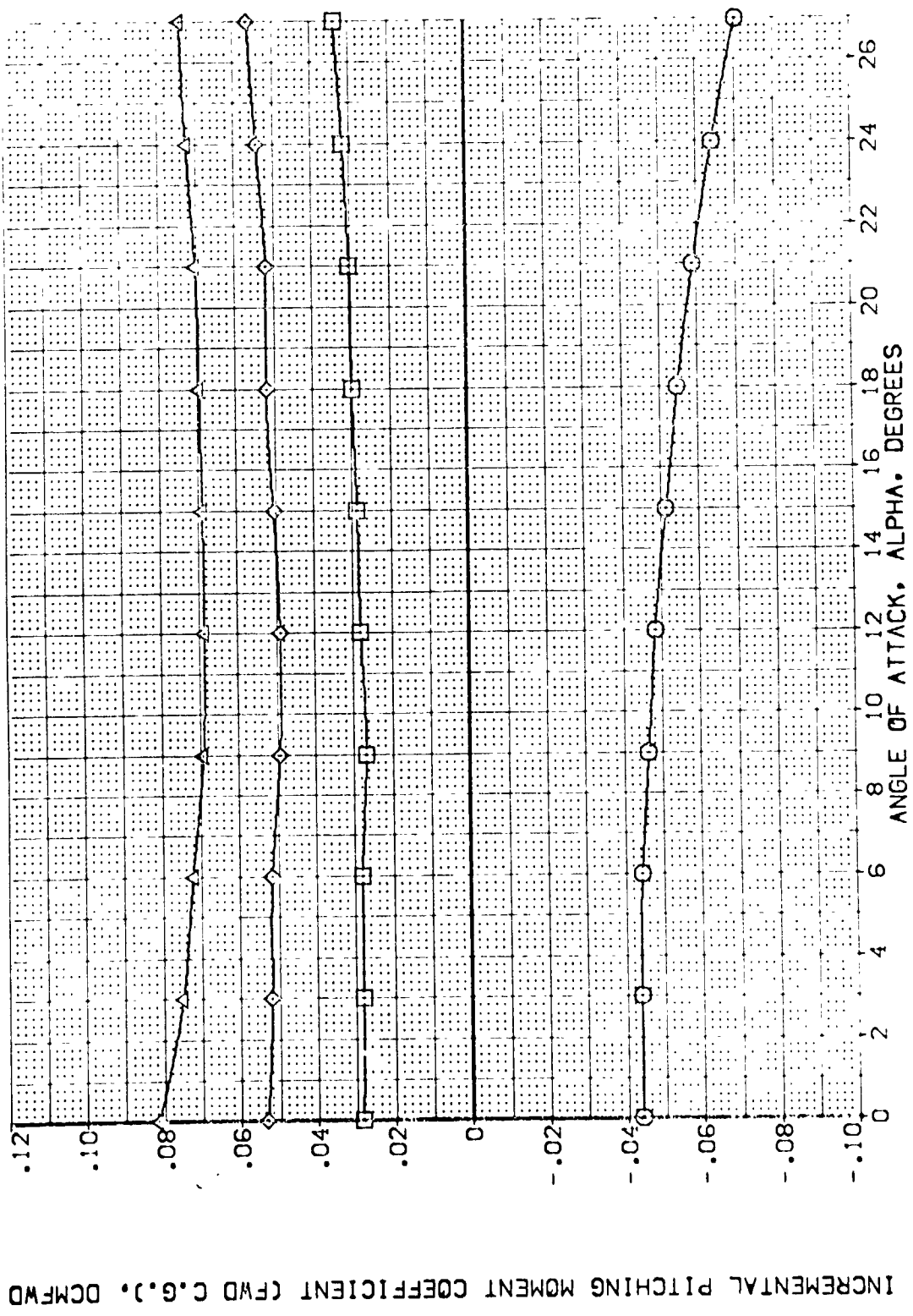


FIG. 7 ELEVON EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{VEK003}	ARC 97-747 GAS38 B C H F VI V	15.000	.000	-11.700	55.000	SREF 2.4210
{VEK002}	ARC 97-747 GAS33 B C H F VI V	-10.000	.000	-11.700	55.000	LREF 14.2410
{VEK019}	ARC 97-747 GAS33 B C H F VI V	-20.000	.000	-11.700	55.000	BREF 28.1004
{VEK023}	ARC 97-747 GAS33 B C H F VI V	-20.000	.000	-11.700	55.000	XREF 32.1000
						YREF 36.1000
						ZREF 40.1000
						SCALE 11.0000
						SCALE

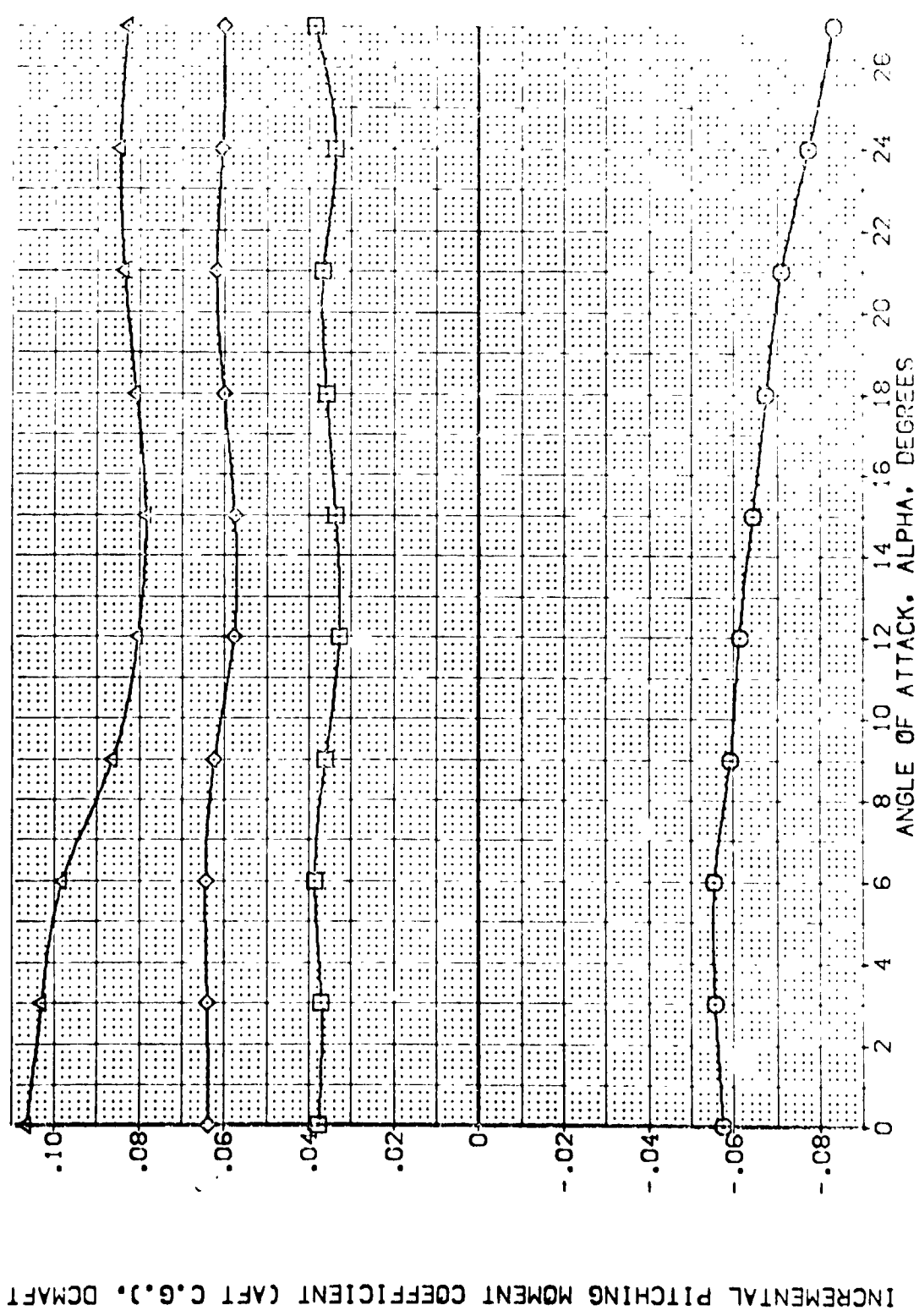


FIG. 7 ELEVON EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DE	AIRLON	EDFLAP	SPOBRN	REFERENCE INFORMATION
01	APC 97-747 C1503 B C M E V	15.000	.000	-11.700	55.000	2.4210 COL.F.
02	APC 97-747 C1503 B C M F V	-10.000	.000	-11.700	55.000	14.1240 COL.F.
03	APC 97-747 C1503 B C M F V	-20.000	.000	-11.700	55.000	24.1100 COL.F.
04	APC 97-747 C1503 B C M E V	-20.000	.000	-11.700	55.000	32.1010 COL.F.
						11.1000 SCALE
						10.0000 SCALE

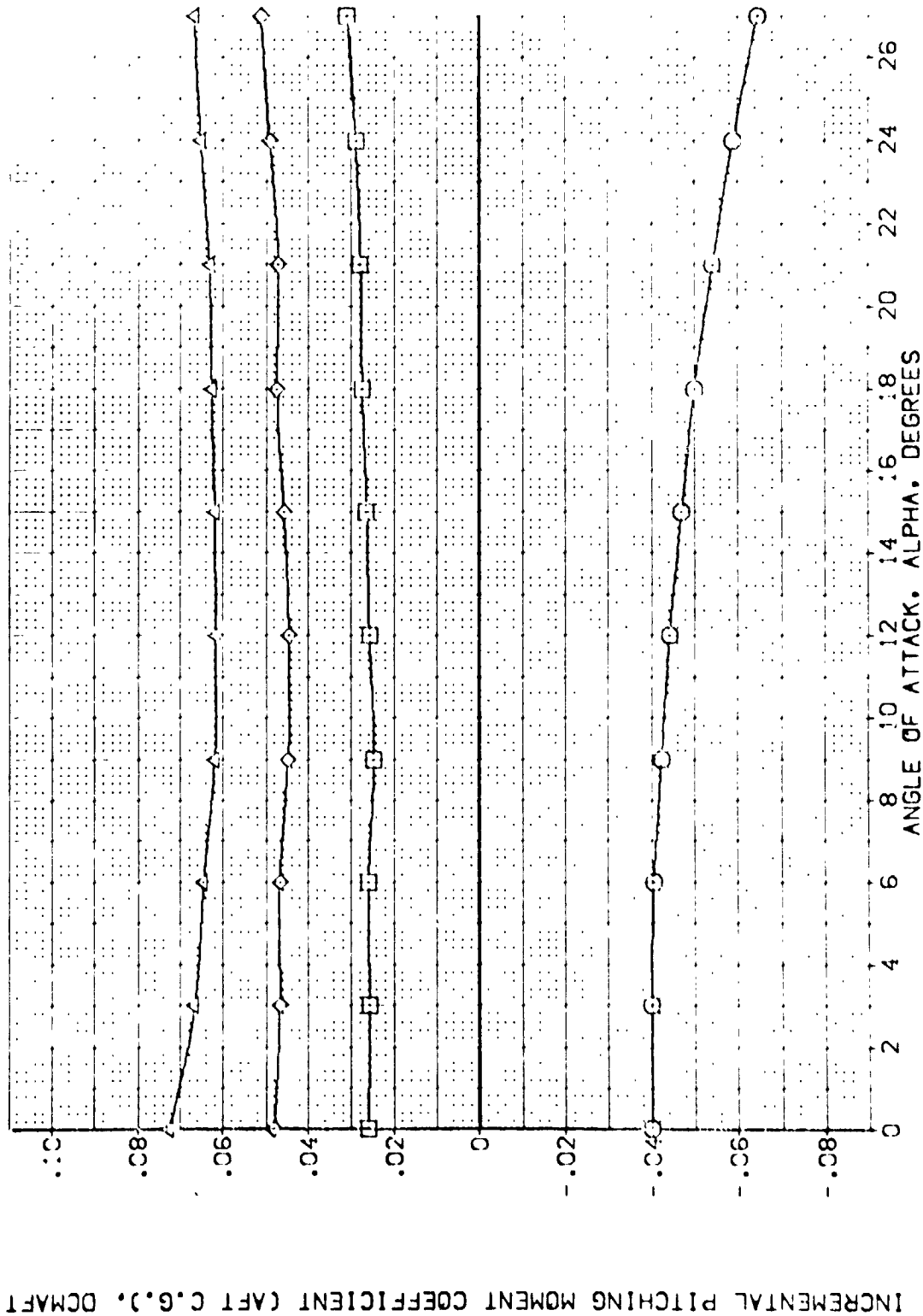


FIG. 7 ELEVON EFFECTS

(B) MACH = 2.00

ARC 97-747 0A538 B C M F W I V NOM. RN/L (TEKO16)

SYMBOL
 ○ □

MACH 1.600 2.002
 BETA .000
 AILRON .000
 SPOBRK 55.000
 ELEV-L .000
 ELEVON .000
 BOFLAP .000
 RUDDER .000
 ELEV-R .000

REFERENCE INFORMATION
 SPEC 2.4210
 LEFF 14.2440
 ELEV 20.1204
 XMP 32.1000
 YMP 11.0000
 ZMP 11.0000
 SCALE .0000

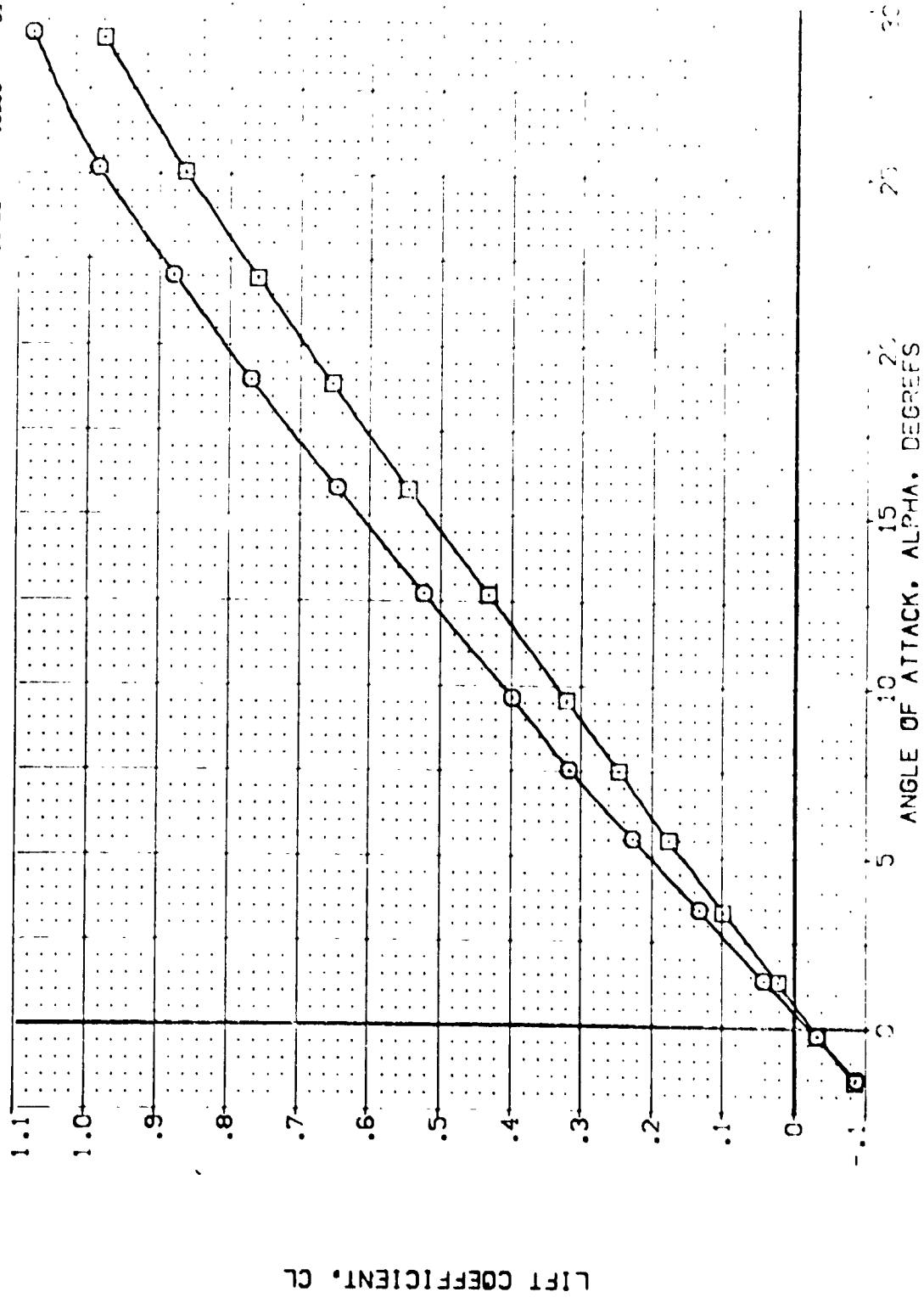


FIG. 7 ELEVON EFFECTS

SYMBOL

MACH
1.600
2.000

PARAMETRIC VALUES
BETA .000 ELEV-ON .000
ALPHA .000 SP-LAP .000
SP-ON 56.000 P-LDOP .000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION:
SPEE 2.4210 COL-FT.
DISE 14.2440
ELEV 20.0000
WIND 32.0000
WTD 11.0000
ZWD 11.0000
SCALE 10000

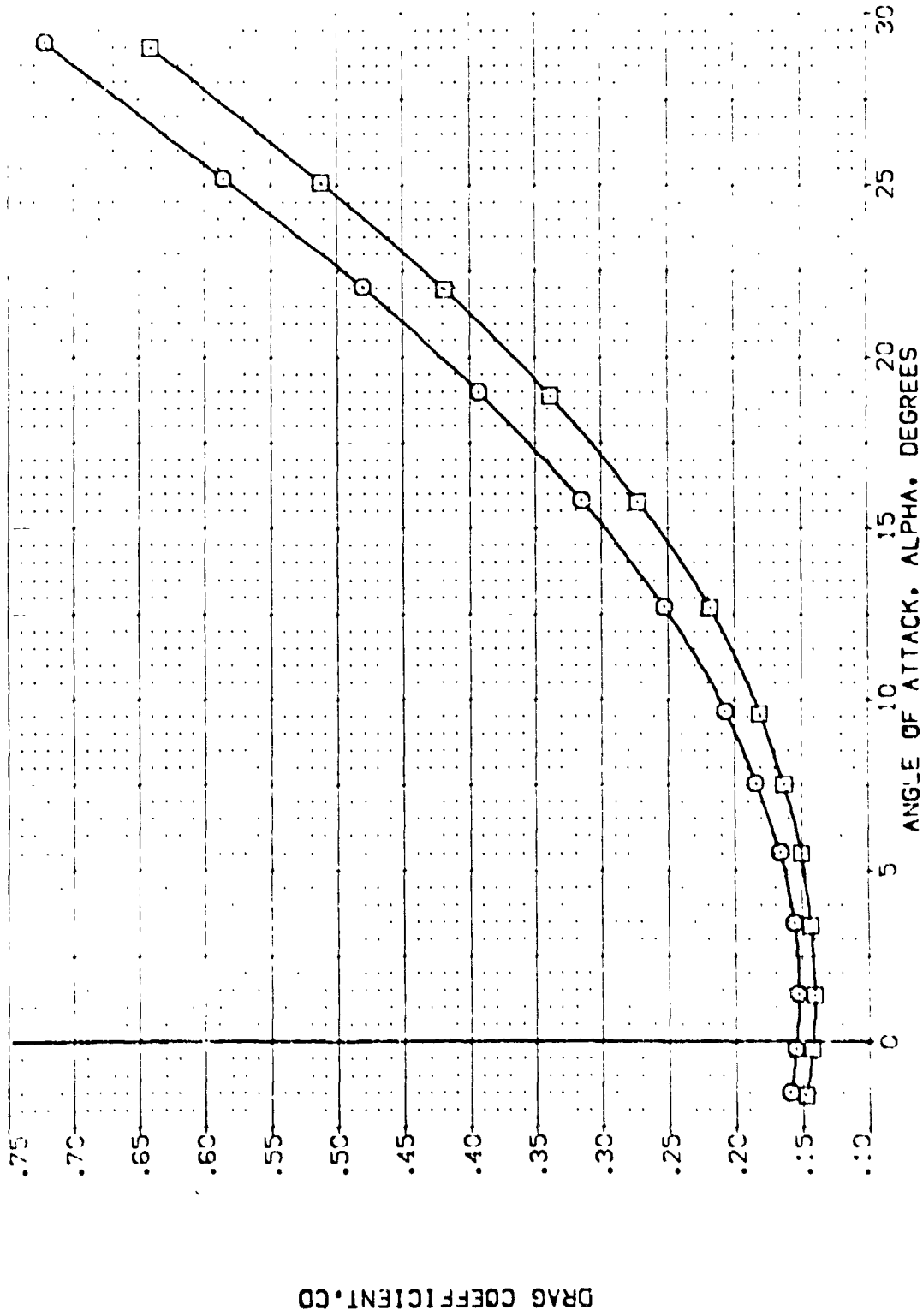


FIG. 7 ELEVON EFFECTS

SYMBOL
 ○ □

MACH
 1.600
 2.002

BETA
 AILRON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON
 .000 BOFLAP
 56.000 RUDDER
 .000 ELEV-R

SREF
 LREF
 BREF
 XREF
 YREF
 ZREF
 SCALE

REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.2440
 28.1004
 32.5010
 .0000
 11.7500
 .0000

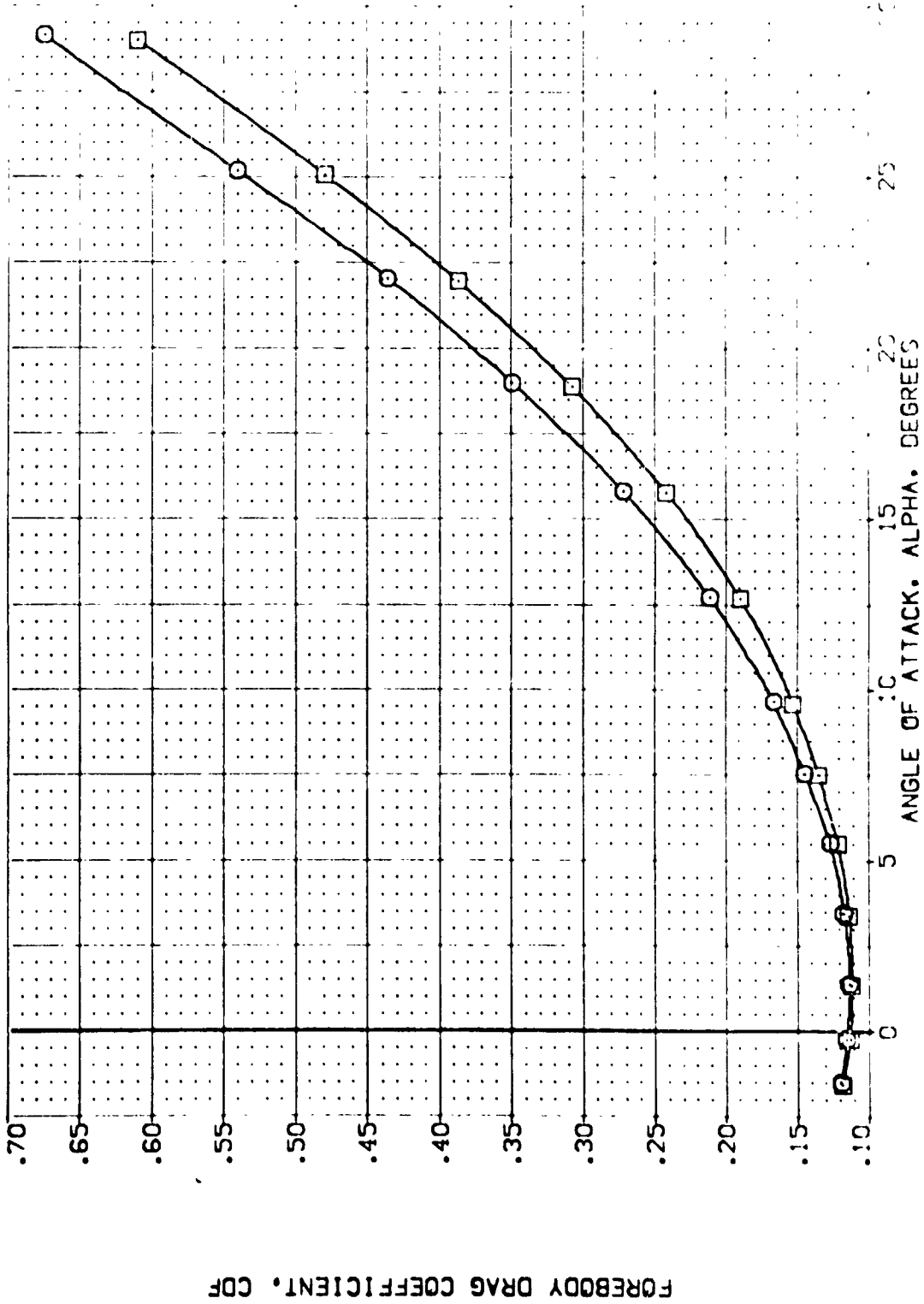


FIG. 7 ELEVON EFFECTS

ARC 97-747 CA538 B C M F W I V NOM. RN/L (TEKO16)

SYMBOL
 ○
 □

MACH 1.600 BETA .000
 2.002 ALPHA .000
 SPDRY 50.000 RLOOR .000
 ELEV-L .000 ELEV-P .000

PARAMETRIC VALUES
 ELEVON .000
 DEF-LAP .000
 RLOOR .000
 ELEV-P .000

REFERENCE INFORMATION
 SQ.FT. 2.4210
 LREF 14.2440
 DREF 27.1440
 AREF 32.1500
 Y/P 11.2500
 Z/P .0000
 SCALE .0000

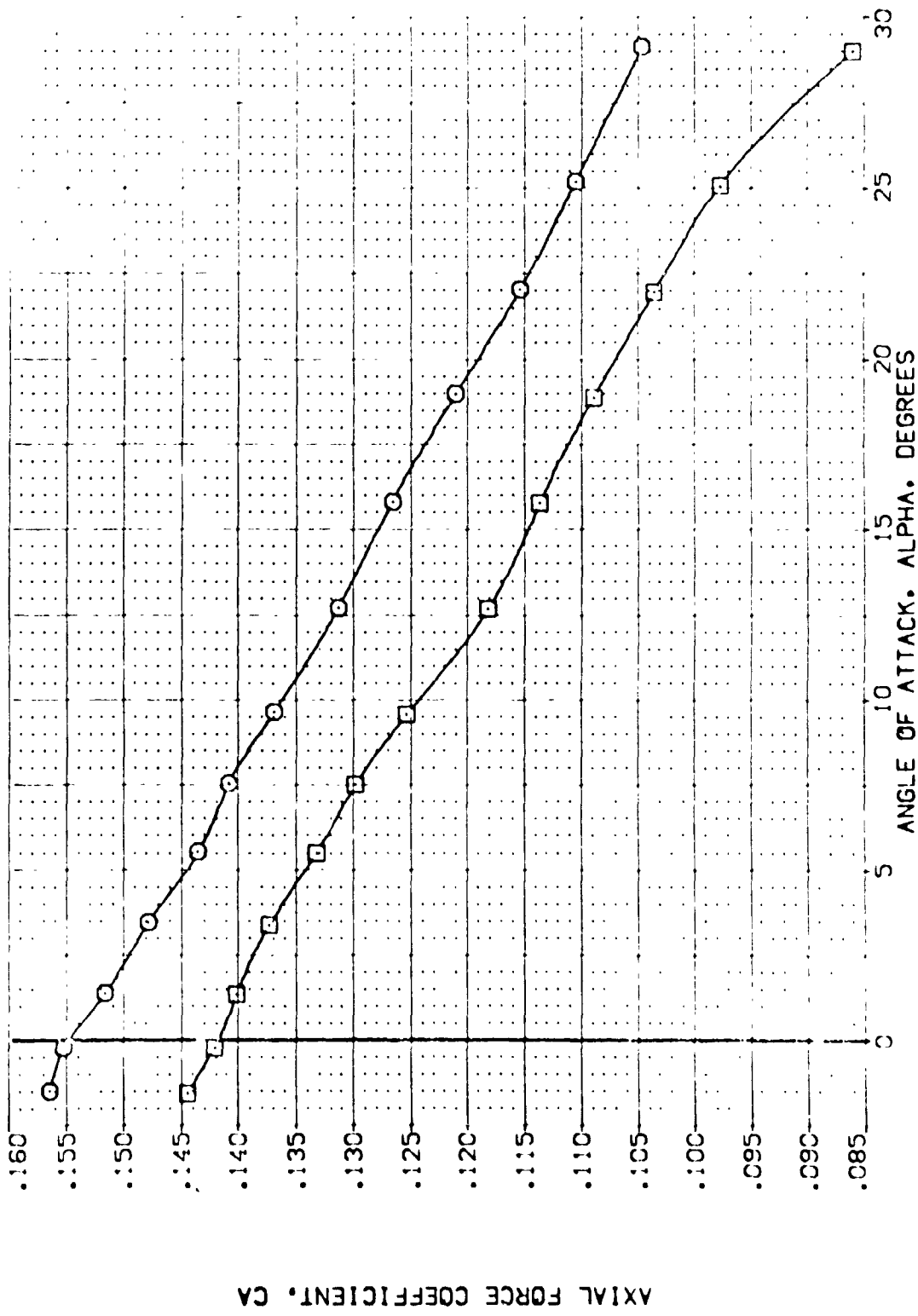


FIG. 7 ELEVON EFFECTS



ARC 97-747 0A538 B C M F W1 V NOM. RN/L (TEK016)

SYMBOL
 ○ □

MACH
 1.600
 2.002

BETA
 AILRON
 SPOORR
 ELEV-L

PARAMETRIC VALUES
 .000
 .000
 .000
 .000

ELEVON
 BOFLAP
 RUDDER
 ELEV-R

SREF
 LREF
 EREF
 XREF
 YREF
 ZREF
 SCALE

REFERENCE INFORMATION
 2.4210
 14.2440
 28.1004
 32.5010
 .0700
 11.2000
 .0000
 SCALE

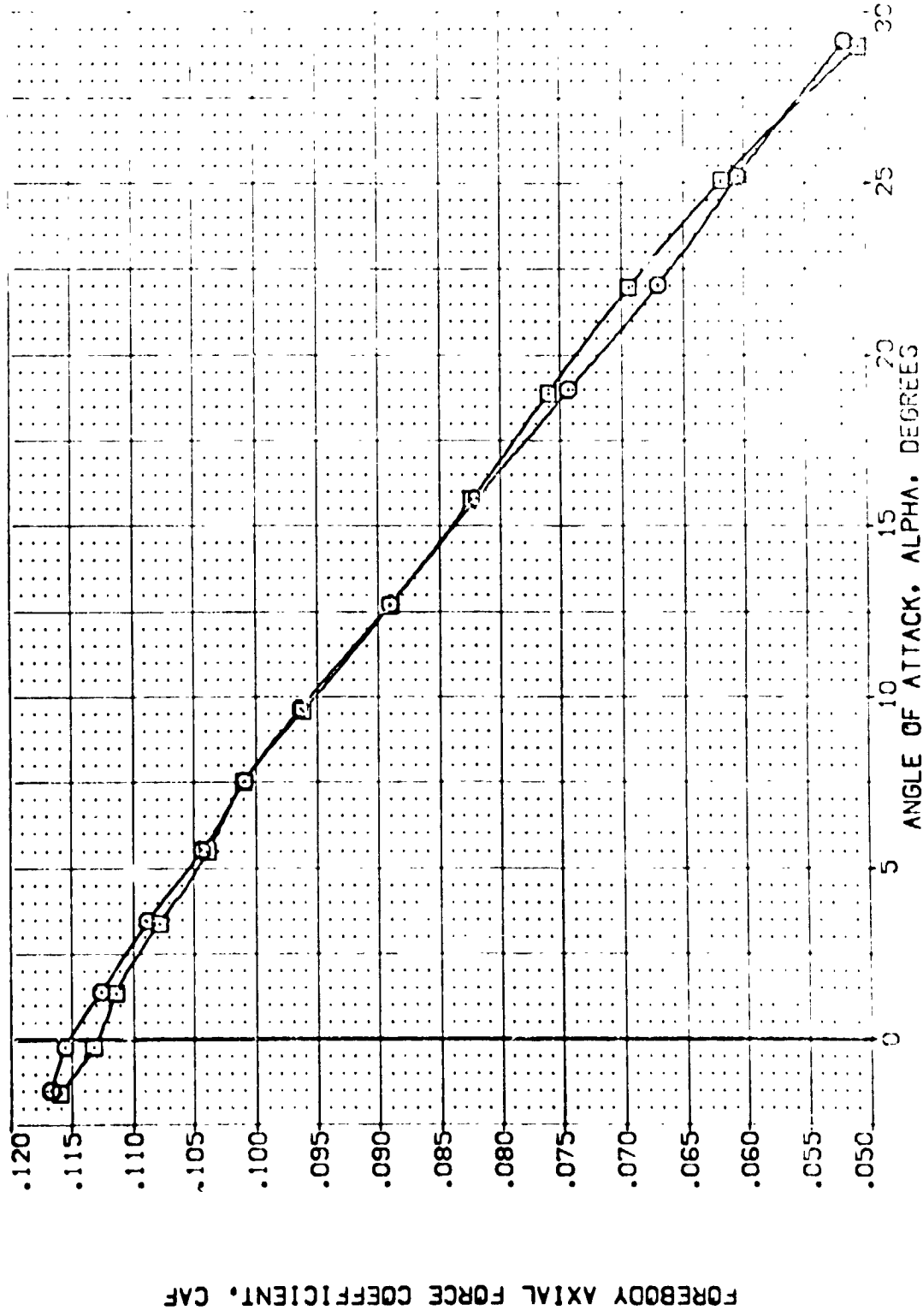


FIG. 7 ELEVON EFFECTS

ARC 97-747 CAS33 B C M F W I V NOM. RN/L (TEKO:6)

SYMBOL
○ □

MACH 1.600 BETA .000 ELEVON .000
2.002 ALLORN .000 EOLAP .000
SPDRK 55.000 FLDDR .000
ELEV-L .000 ELEV-R .000

PARAMETRIC VALUES

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2340 IN.
BREF 25.1100 IN.
YREF 25.1100 IN.
ZREF 11.0000 IN.
SCALE .0003

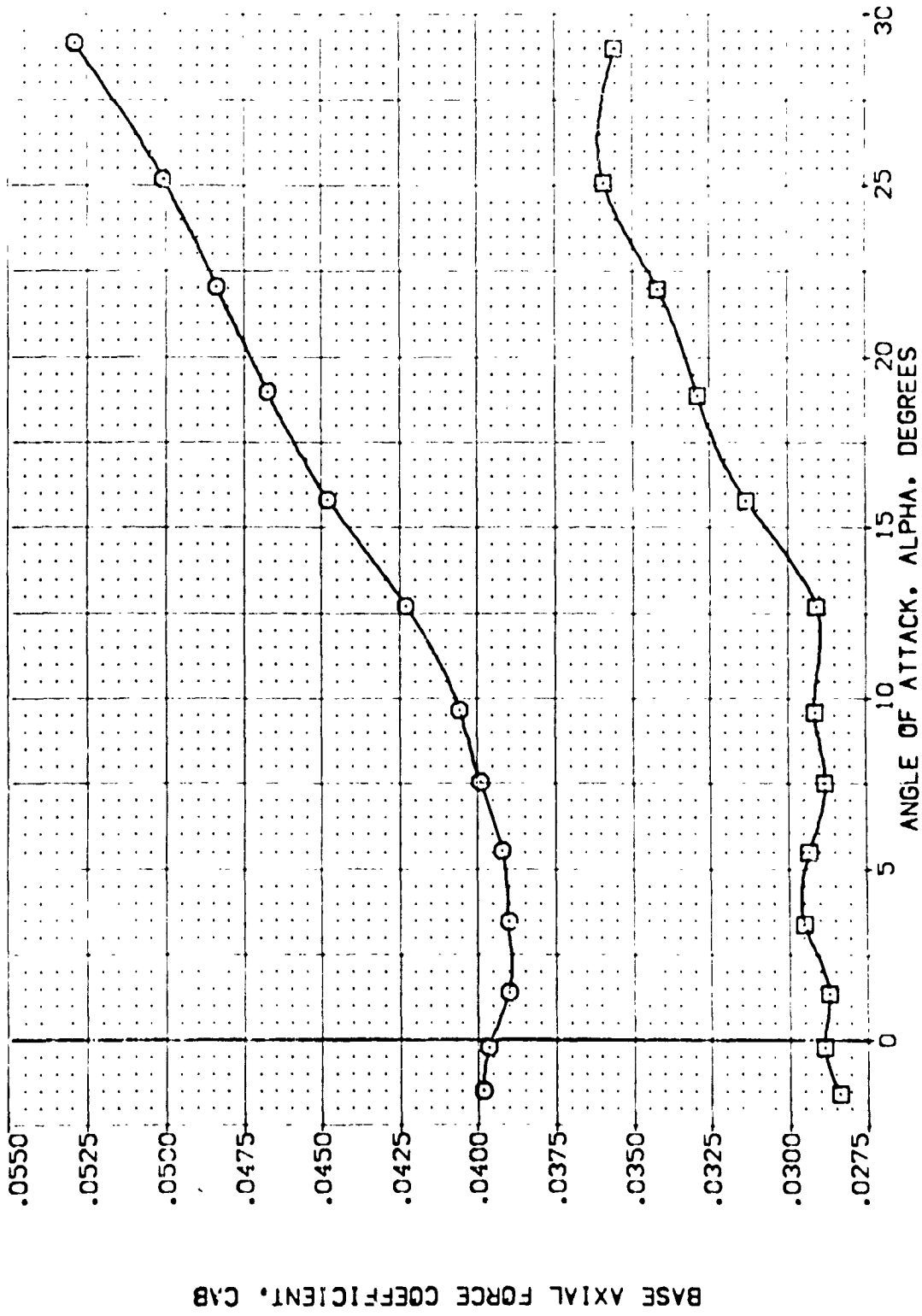


FIG. 7 ELEVON EFFECTS

SYMBOL
 ○
 □

MACH
 1.600
 2.000

BETA
 .000
 .000
 .000
 .000

PARAMETRIC VALUES
 ELEVON
 BOFLAP
 RUDDER
 ELEV-R

REFERENCE INFORMATION
 2-4210
 14-2440
 20-1100A
 32-1010
 11-1000
 11-1000
 11-1000

SREF
 LREF
 DREF
 XREF
 YREF
 ZREF
 SCALE

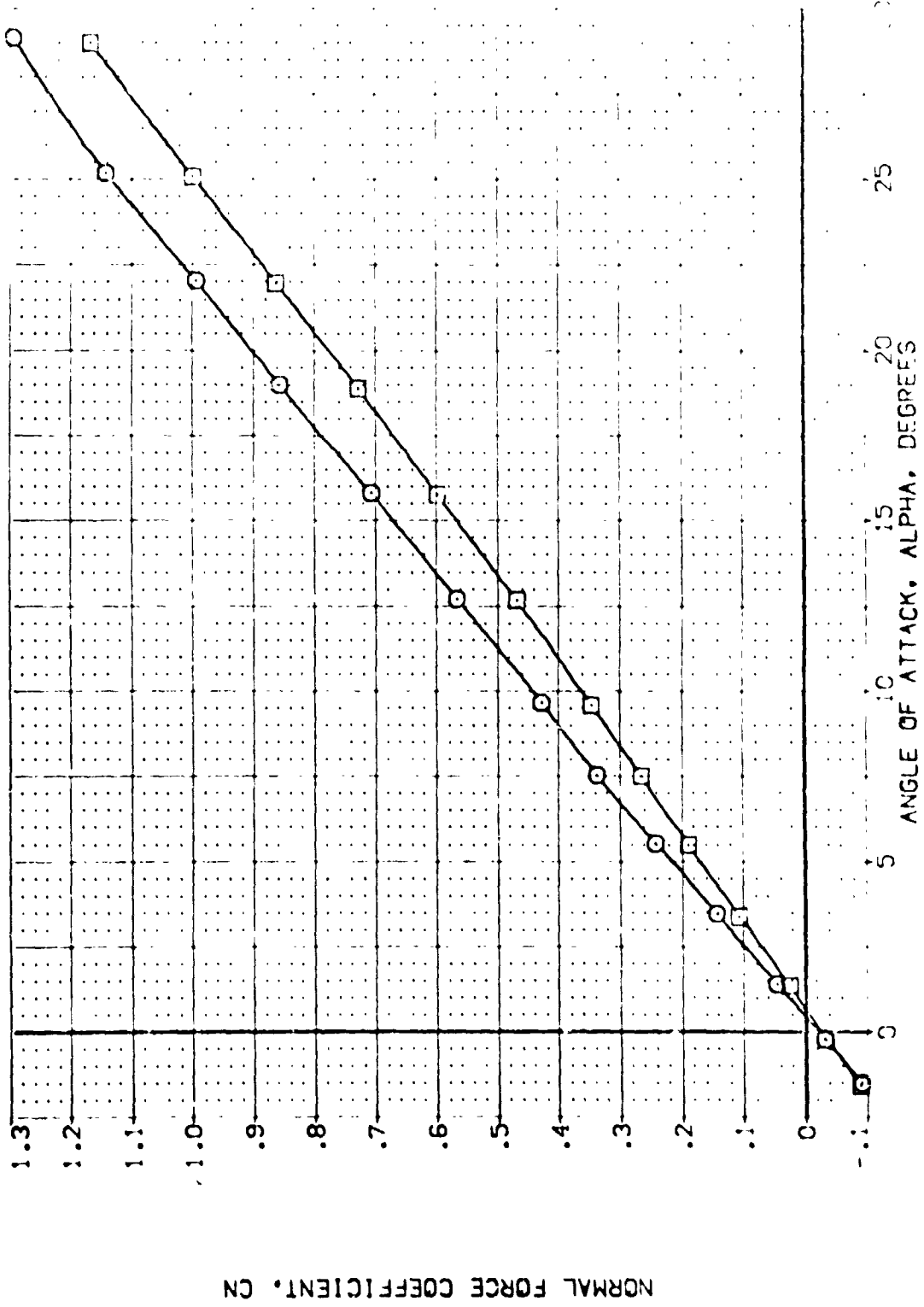


FIG. 7 ELEVON EFFECTS

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (TEK016)

SYMBOL
 ○
 □

MACH
 1.500
 2.000

BETA
 AILRON
 SPOSRK
 ELEV-L

PARAMETRIC VALUES
 .000 ELEVON
 .000 80FLAP
 55.000 PUDDER
 .000 ELEV-R

.000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2410 IN.
 EREF 33.1001 IN.
 XREF 32.1010 IN.
 YREF 1.0000 IN.
 ZREF 11.0000 IN.
 SCALE .0000

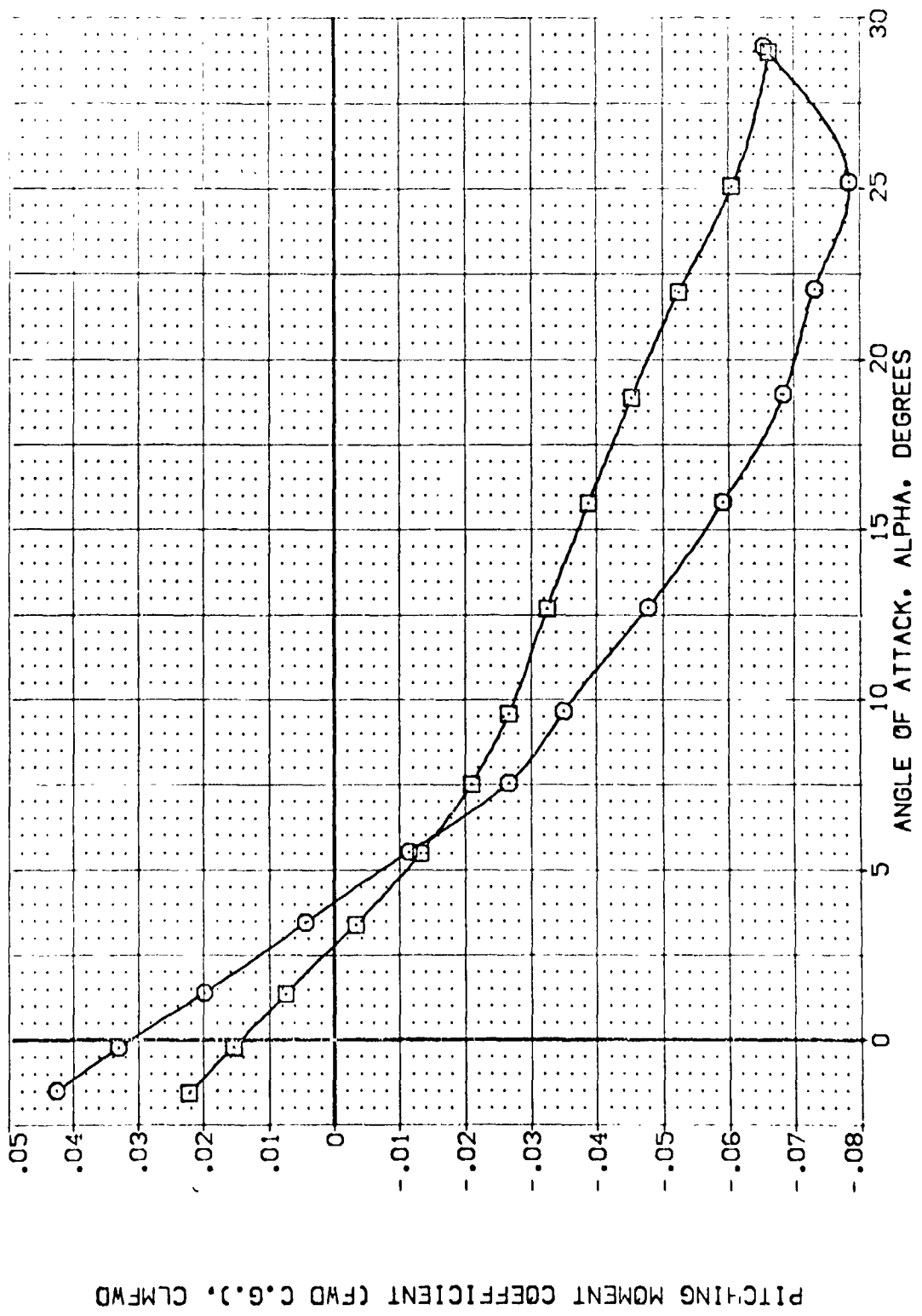


FIG. 7 ELEVON EFFECTS

SYMBOL
 ○ □

MACH 1.600
 2.002

BETA .000
 7.180N

PARAMETRIC VALUES
 ELEVON .000
 BOFLAP .000
 RUDDER .000
 ELEV-L 56.000
 ELEV-R .000

REFERENCE INFORMATION
 SPEC 2.4210
 LREF 14.2740
 EREF 20.1004
 XREF 22.5010
 YREF .0000
 ZREF 11.2000
 SCALE .0000

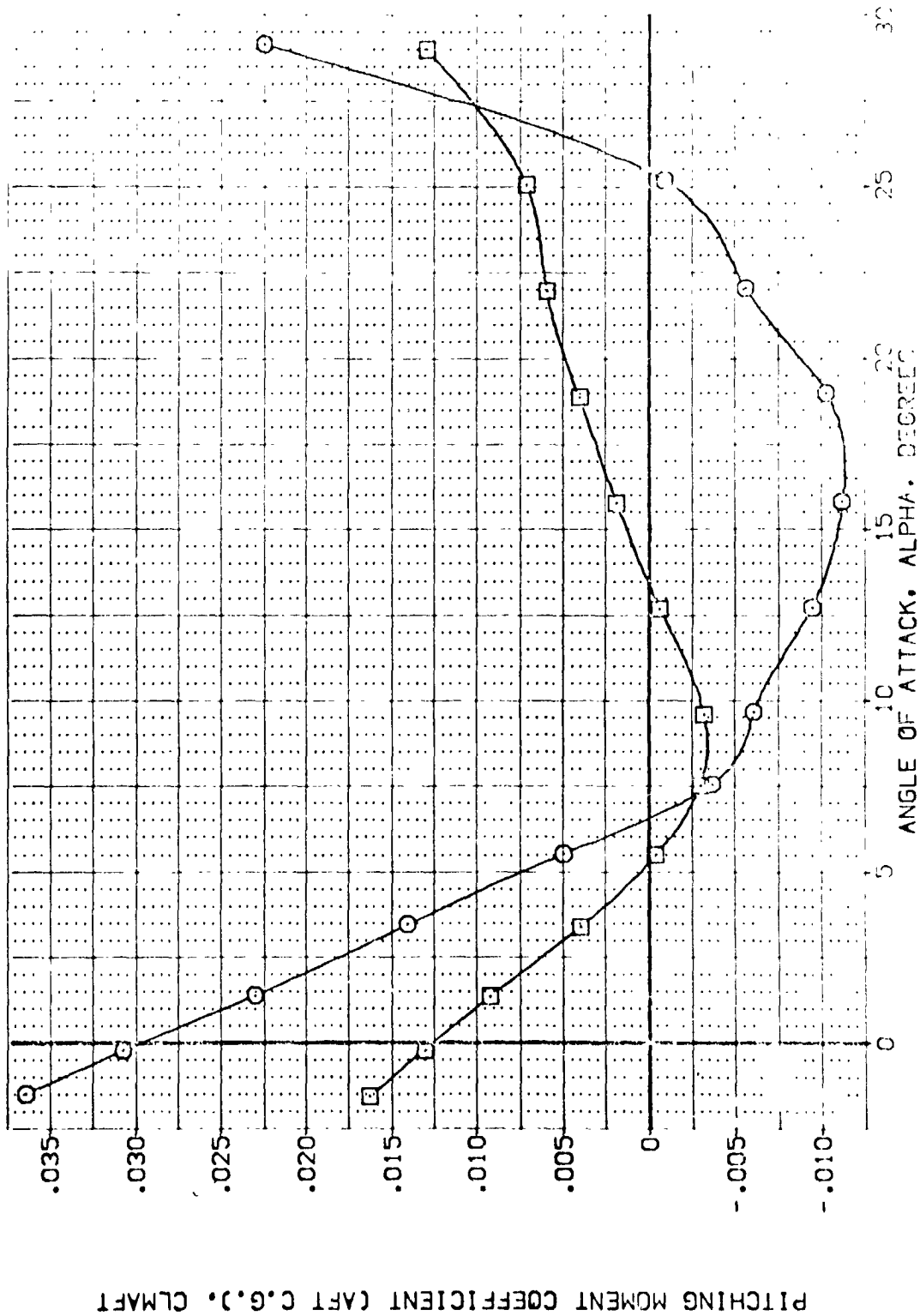


FIG. 7 ELEVON EFFECTS

SYMBOL MACH BETA ALPHON SPCOM ELEV-1
 1.000 .000 ELEVON .000
 2.000 .000 BOFLAP .000
 56.000 RUDER .000
 .000 ELEV-R .000

PARAMETRIC VALUES

REF REFERENCE INFORMATION:
 SREF 2.4210 30.07
 TRF 14.2000 1.1
 YREF 22.1000 1.1
 YMR 22.1000 1.1
 ZMR 11.0000 1.1
 SCALE .0000 107.0

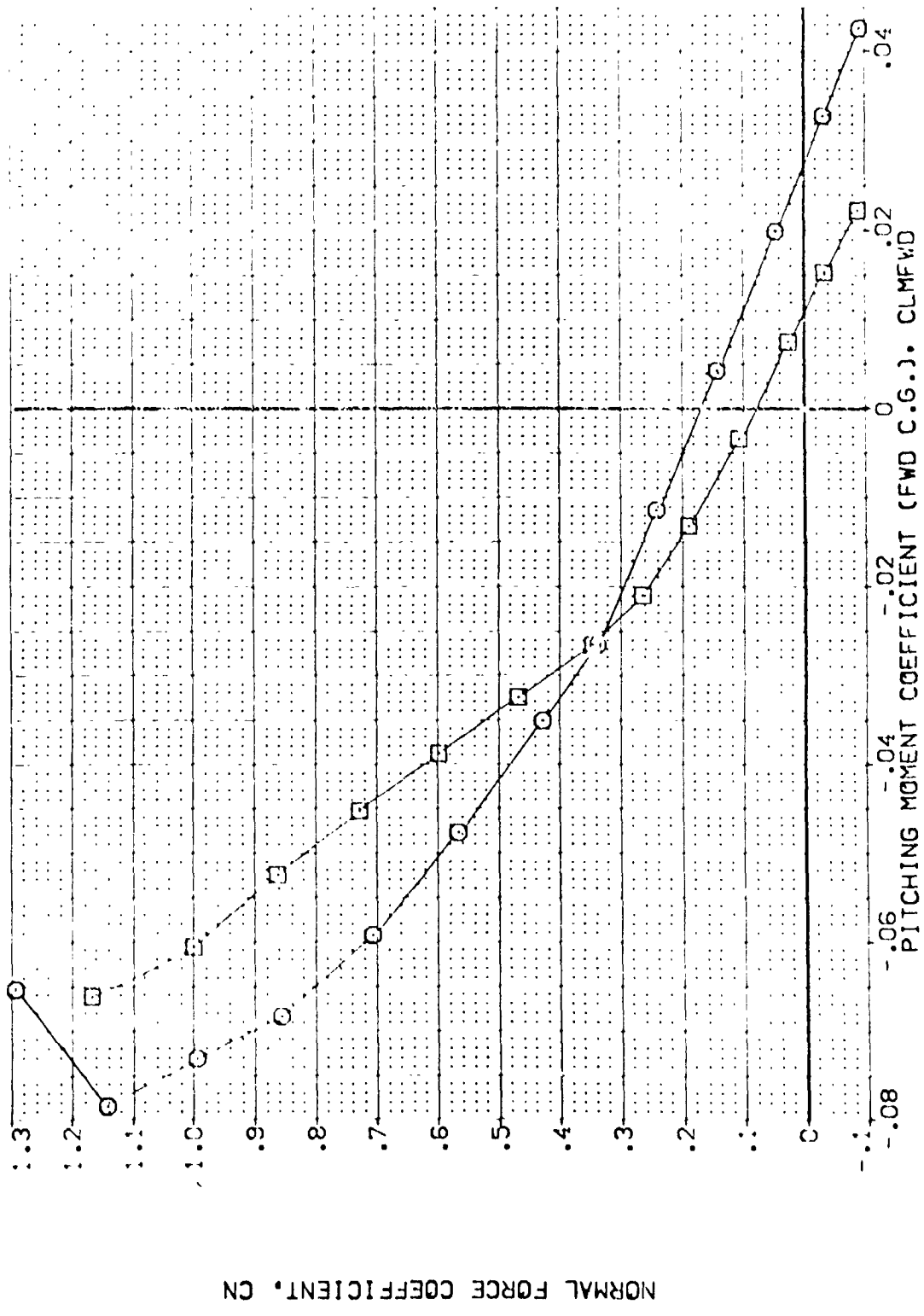


FIG. 7 ELEVON EFFECTS

SYMBOL	MACH	BETA	ALLRON	SPOORX	ELEV-L	PARAMETRIC VALUES	ELEVON	BOFLAP	RLOJER	ELEV-R	SREF	LREF	SREF	XREF	YREF	ZREF	SCALE	REFERENCE INFORMATION	SQ.FT.
○ □	1.000 2.002					.000 .000 56.000 .000	.000 .000 .000 .000				2.4210 14.2440 28.1004 32.0010 36.0020 40.0030 44.0040 48.0050								

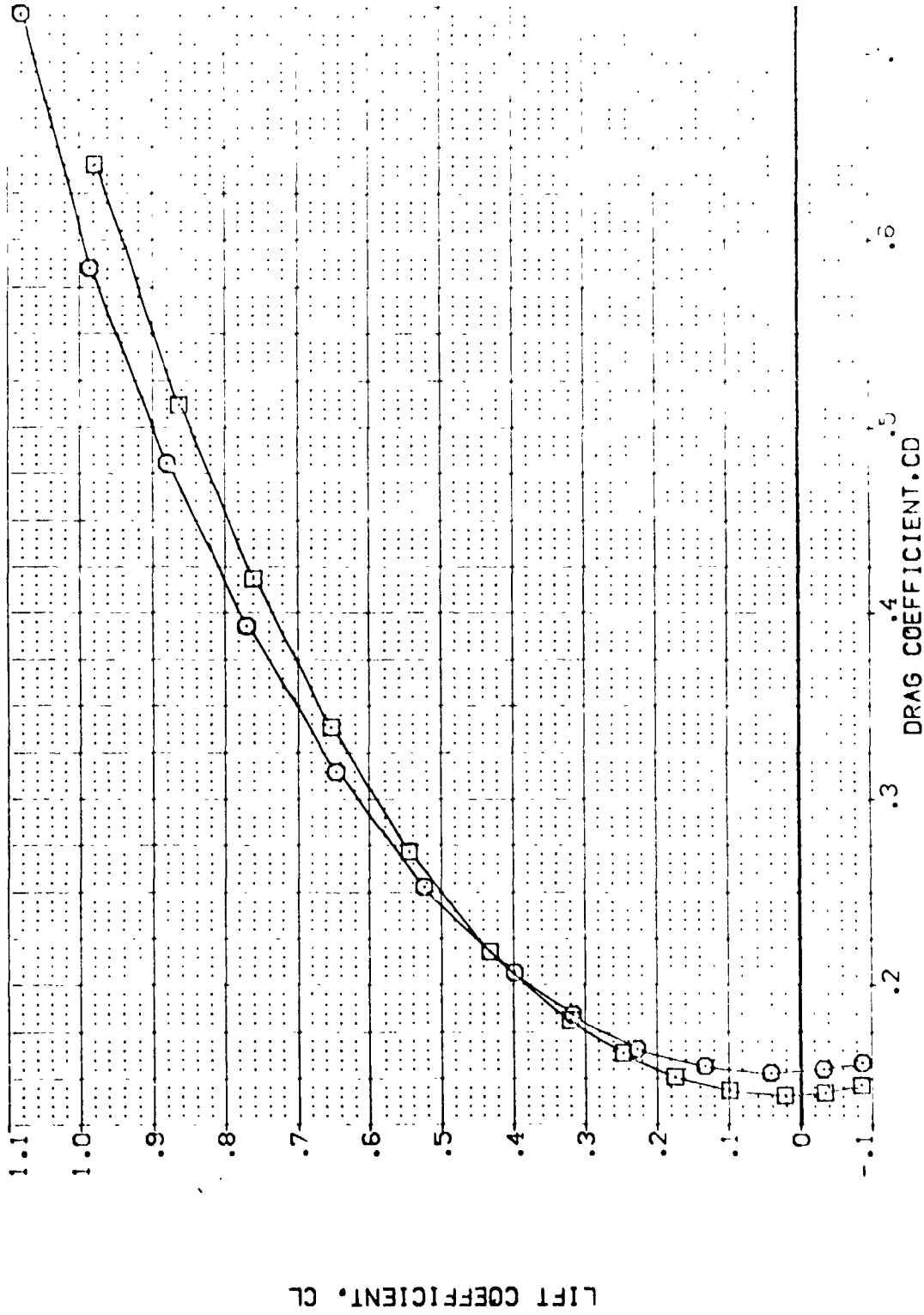


FIG. 7 ELEVON EFFECTS

SYMBOL
○ □

MACH
1.600
2.002

BETA
A1LRON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 ESC'LAP
55.000 RUDDER
.000 ELEV-R

SREF
LEEF
ELEV
XREF
YREF
ZREF
SCALE

REFERENCE INFORMATION
2.4210 SQ.FT.
14.19470 IN.
20.11004 IN.
32.00110 IN.
0.0000 IN.
11.25000 IN.
.00000 SCALE

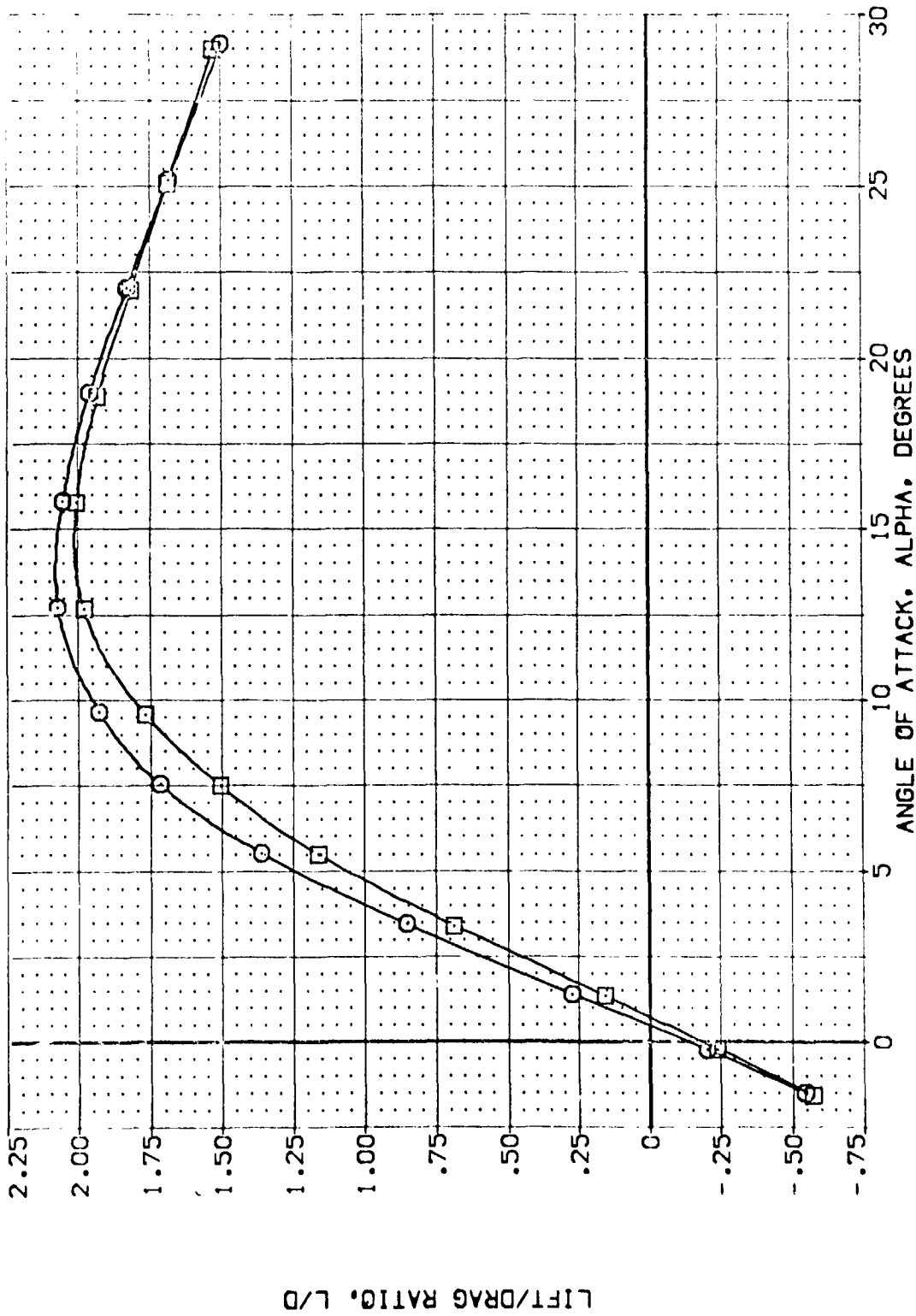


FIG. 7 ELEVON EFFECTS

ARC 97-747 OA53B B C M F W I V NOM. RN/L (AEK016)

SYMBOL



MACH
1.600
2.002

BETA
AILTRON
SPDRK
ELEV-L

PARAMETRIC VALUES
.000 ELEVON
.000 EDFLAP
55.000 RUDDER
.000 ELEV-R

REFERENCE INFORMATION
SQ.FT.
2.4210
14.2440
29.1004
32.3010
.0000
11.4000
SCALE

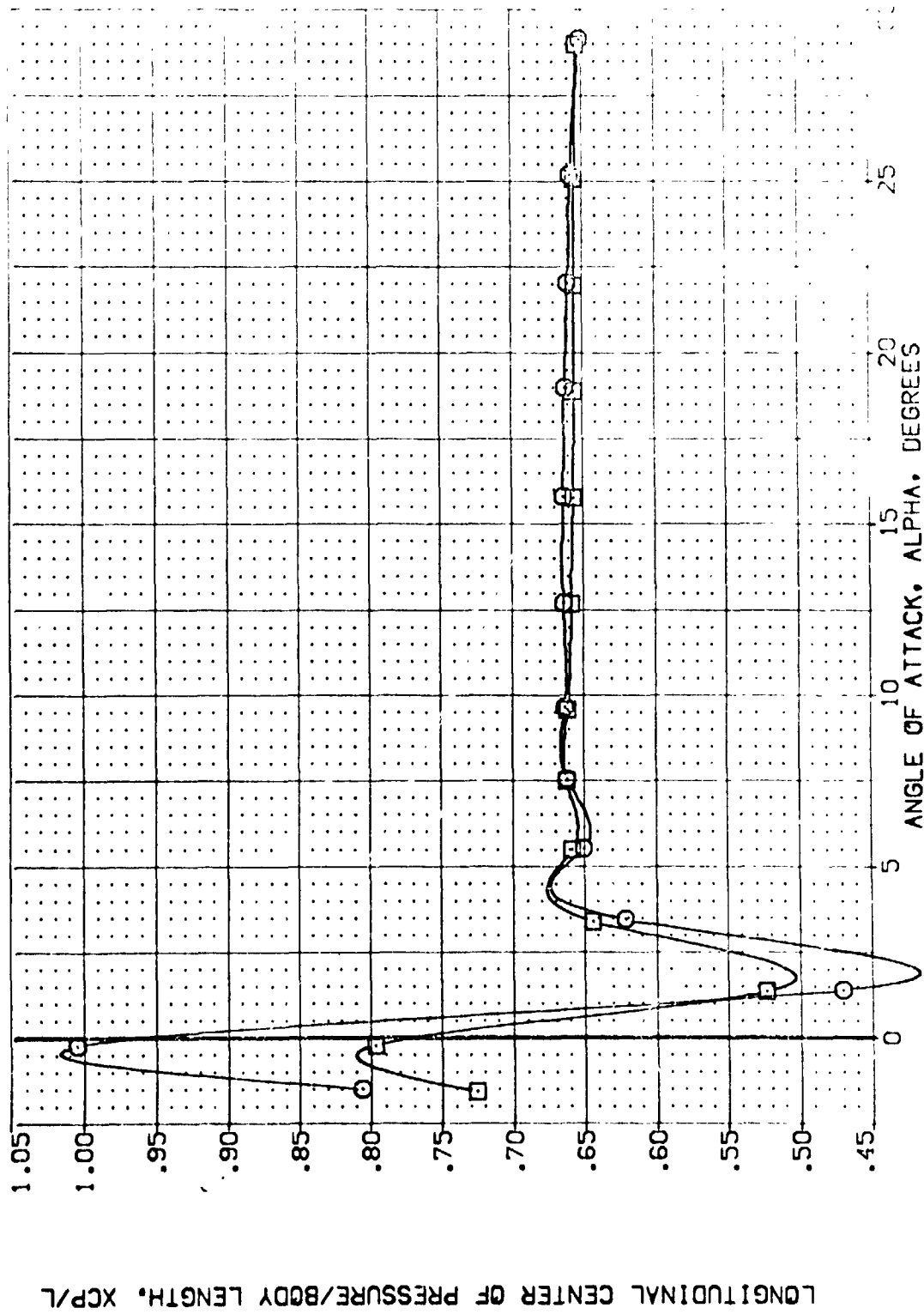


FIG. 7 ELEVON EFFECTS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILTRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 0A538 B C M F V I V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 0A538 B C M F V I V	.000	.000	.000	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 0A538 B C M F V I V	.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRP 32.3010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

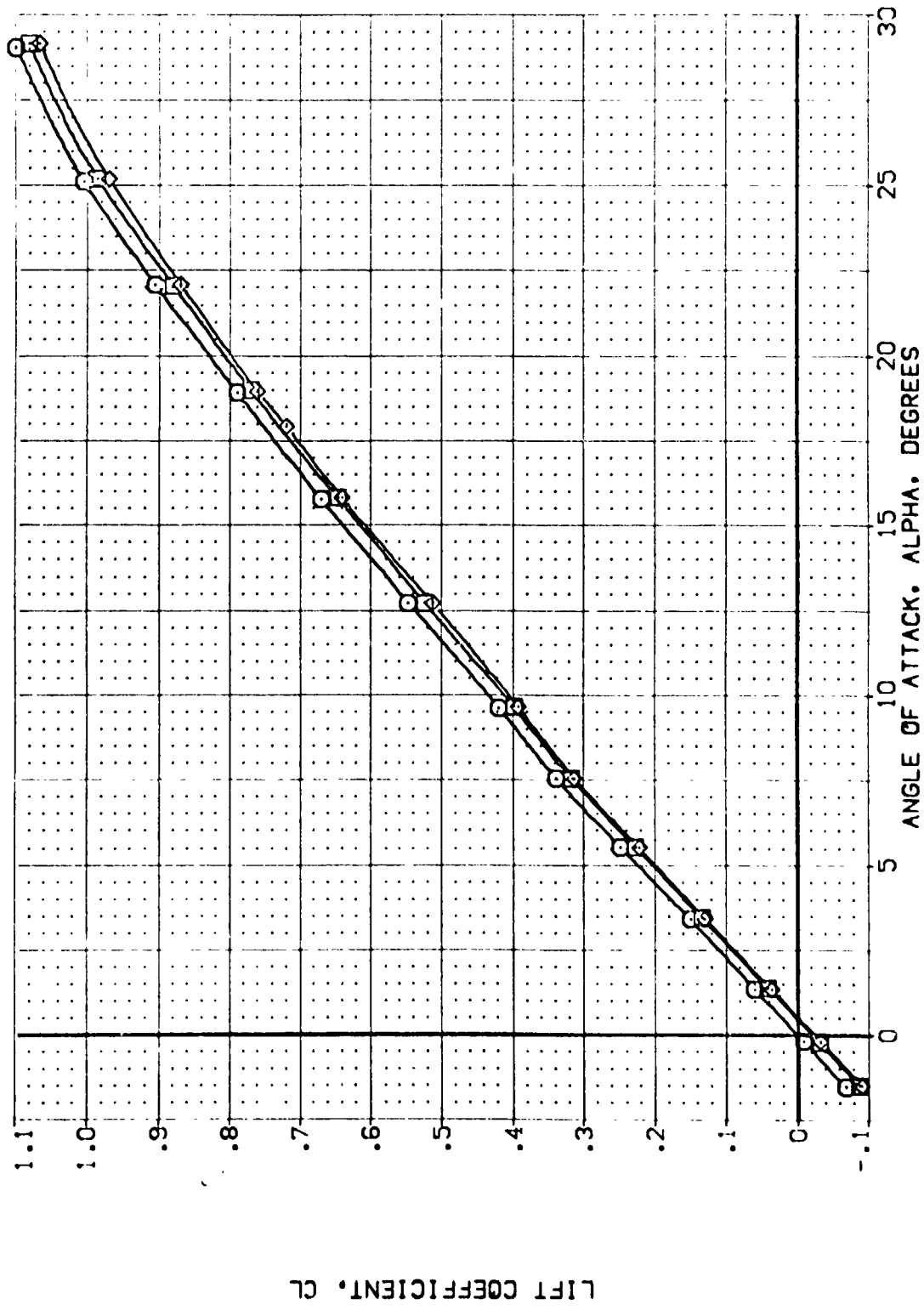


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPEED	REFERENCE INFORMATION
(TE01:0)	ARC 97-747 B A 503 B C M F VI V NOM. RNAL	.000	.000	16.200	55.000	2.4210 SQ.FT.
(TE01:6)	ARC 97-747 C A 503 B C M F VI V NOM. RNAL	.000	.000	.000	55.000	14.2410
(TE01:1)	ARC 97-747 C A 503 B C M F VI V NOM. RNAL	.000	.000	-11.700	55.000	22.1000
						32.1000
						40.2000
						11.2000
						SCALE

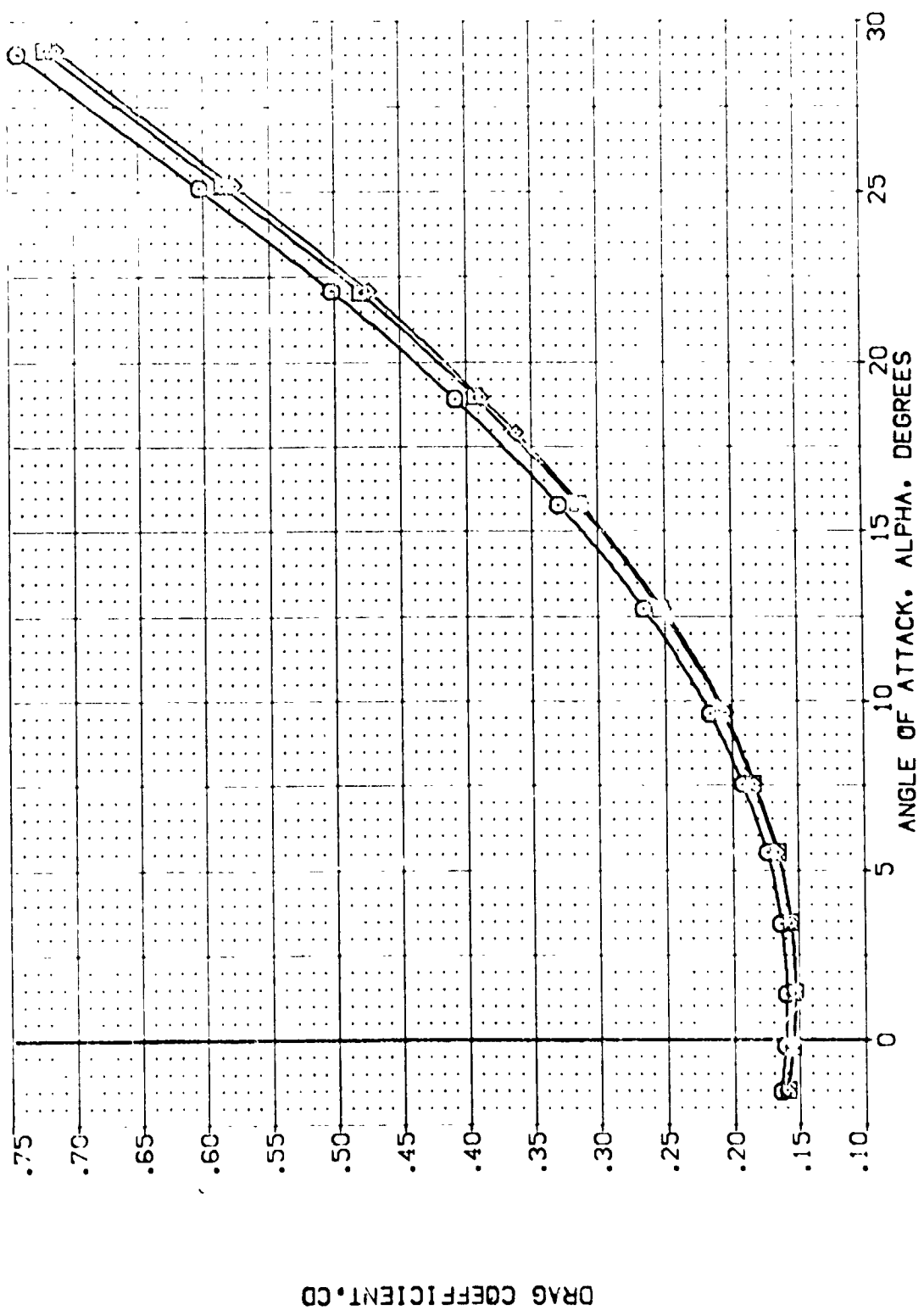


FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.30

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(TEP010)	ARC 97-747 B A S B B C M F VI V	.000	.000	16.000	55.000	SPREF 2.4210
(TEP016)	ARC 97-747 B A S B B C M F VI V	.000	.000	.000	55.000	LRREF 14.2740
(TEP011)	ARC 97-747 B A S B B C M F VI V	.000	.000	-11.700	55.000	DRREF 28.1004
						AMREF 37.5910
						VMREF 11.2000
						ZMREF 11.0000
						SCALE

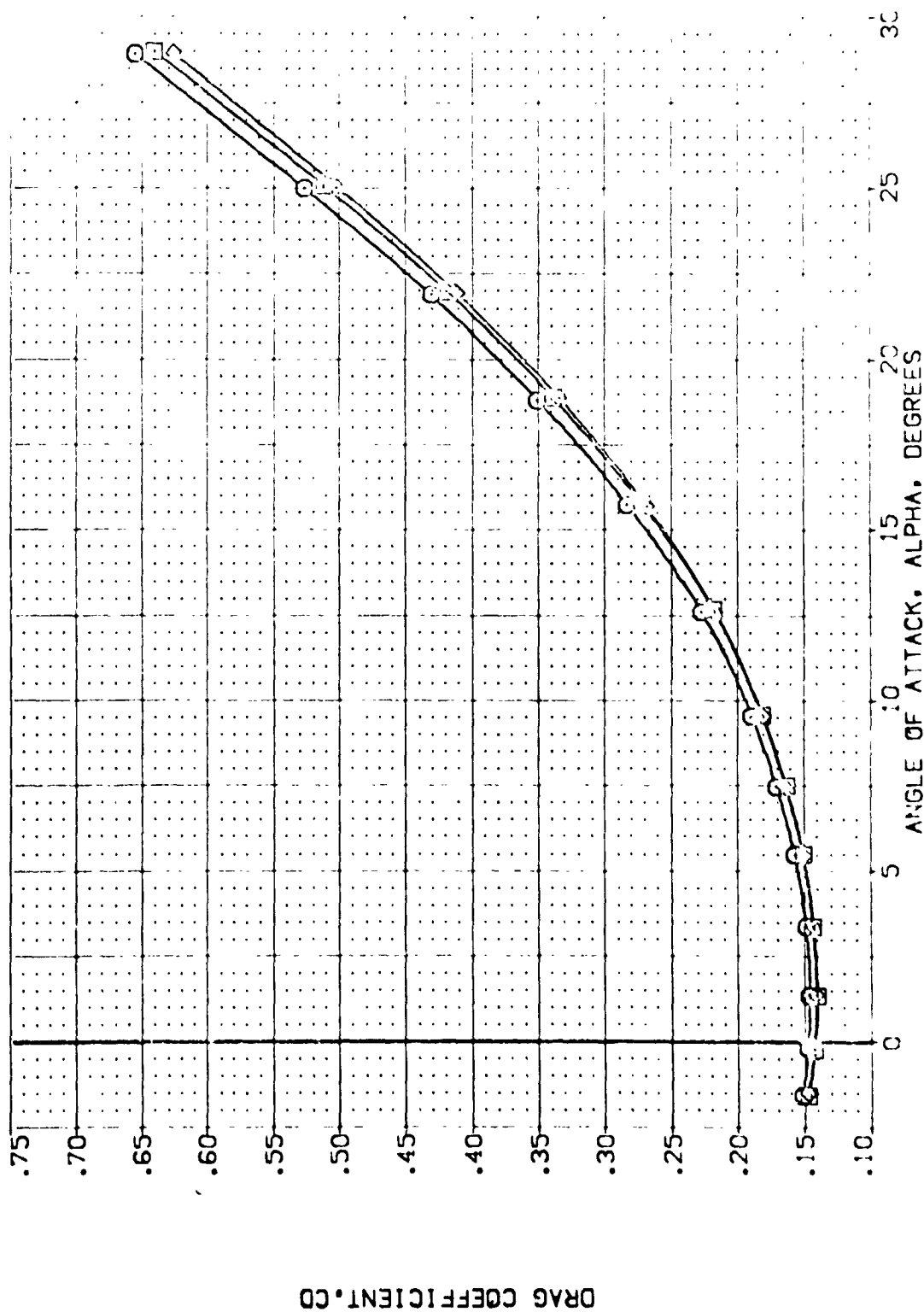


FIG. 8 BODYFLAP EFFECTS
(B) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747 04523 B C M F V I V NOM: RWL
 APC 97-747 04523 B C M F V I V NOM: RWL
 ARC 97-747 04523 B C M F V I V NOM: RWL

ELEVON AILTRON BOFLAP SPOBRK

.000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

REFERENCE INFORMATION

SREF 2.4210 52. FT.
 LREF 14.2140 IN.
 BRREF 22.1000 IN.
 XMREF 1.0000 IN.
 YMREF 1.0000 IN.
 ZMREF 11.0000 IN.
 SCALE .0003

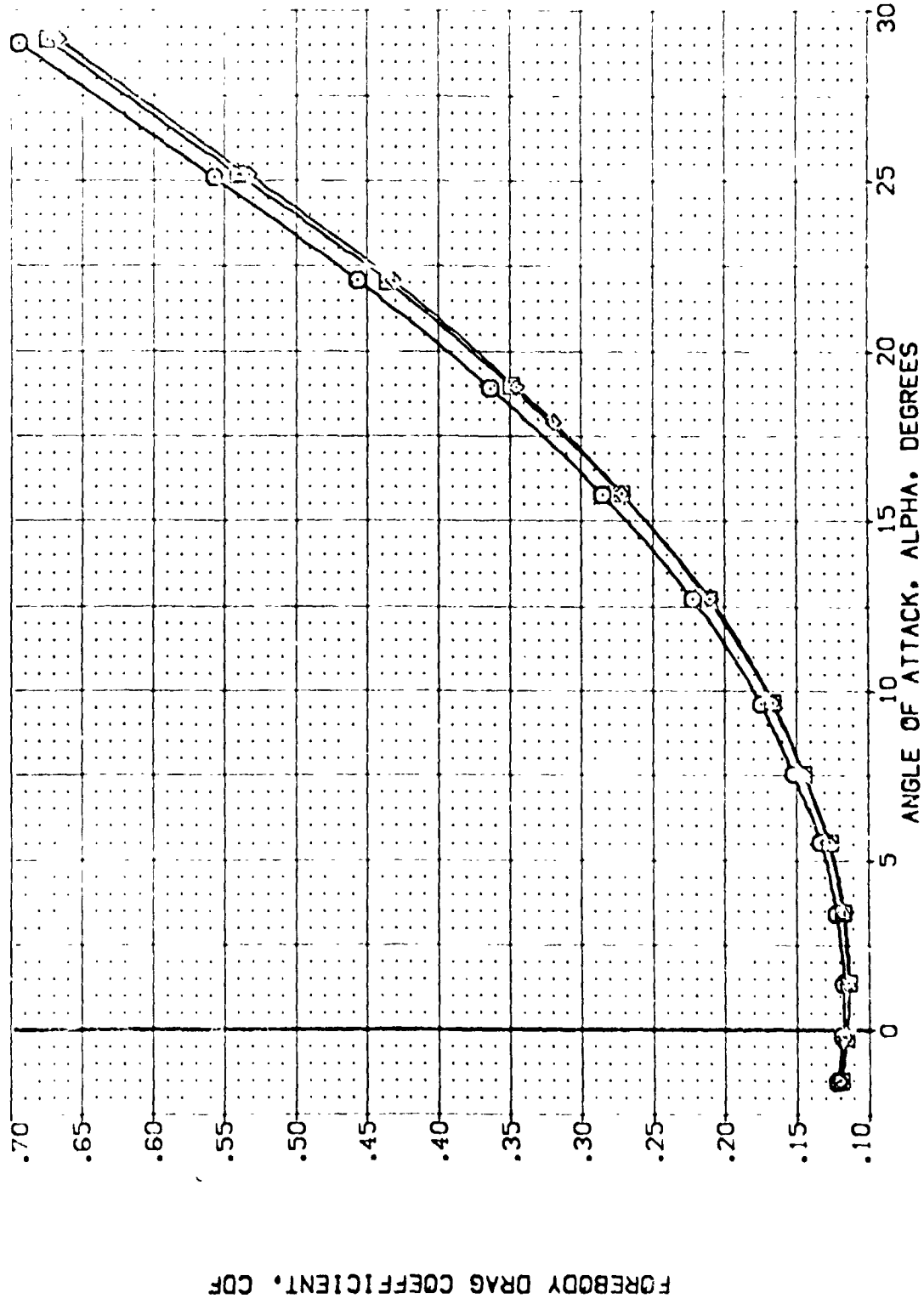


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBL	CONFIGURATION DESCRIPTION	ELEVON	AIRIRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
{TEMO10}	ARC 97-747 OAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
{TEMO16}	ARC 97-747 OAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2740
{TEMO11}	ARC 97-747 OAS38 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1004
						XMREF 32.0010
						YMRP .0000
						ZMRP .0000
						SCALE .0000

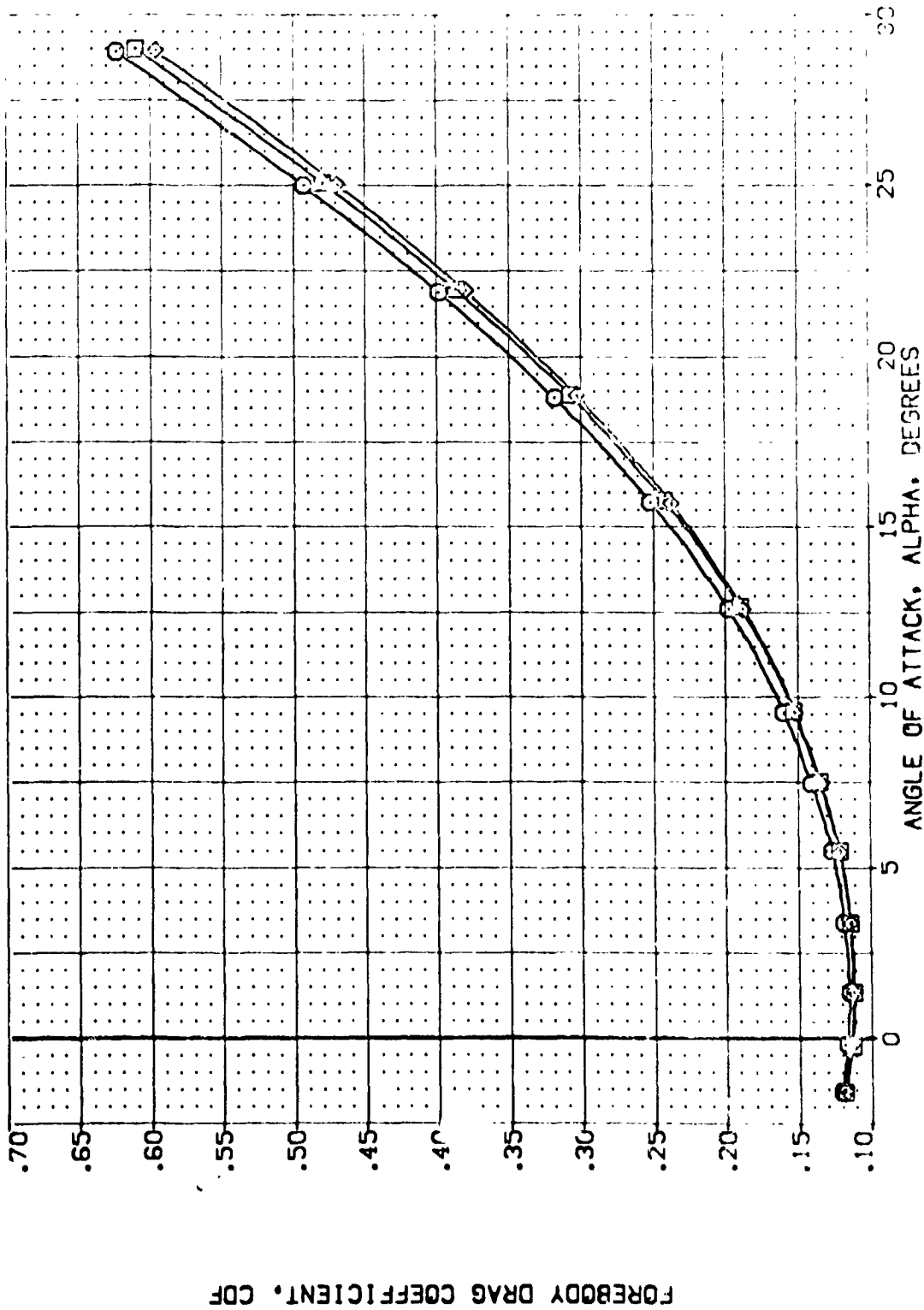


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEM010)	ARC 97-747 0A503 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEM019)	ARC 97-747 0A503 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2740
(TEM011)	ARC 97-747 0A503 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1001
						XMRP 32.6310
						YMRP 11.0700
						ZMRP .0000
						SCALE .0000

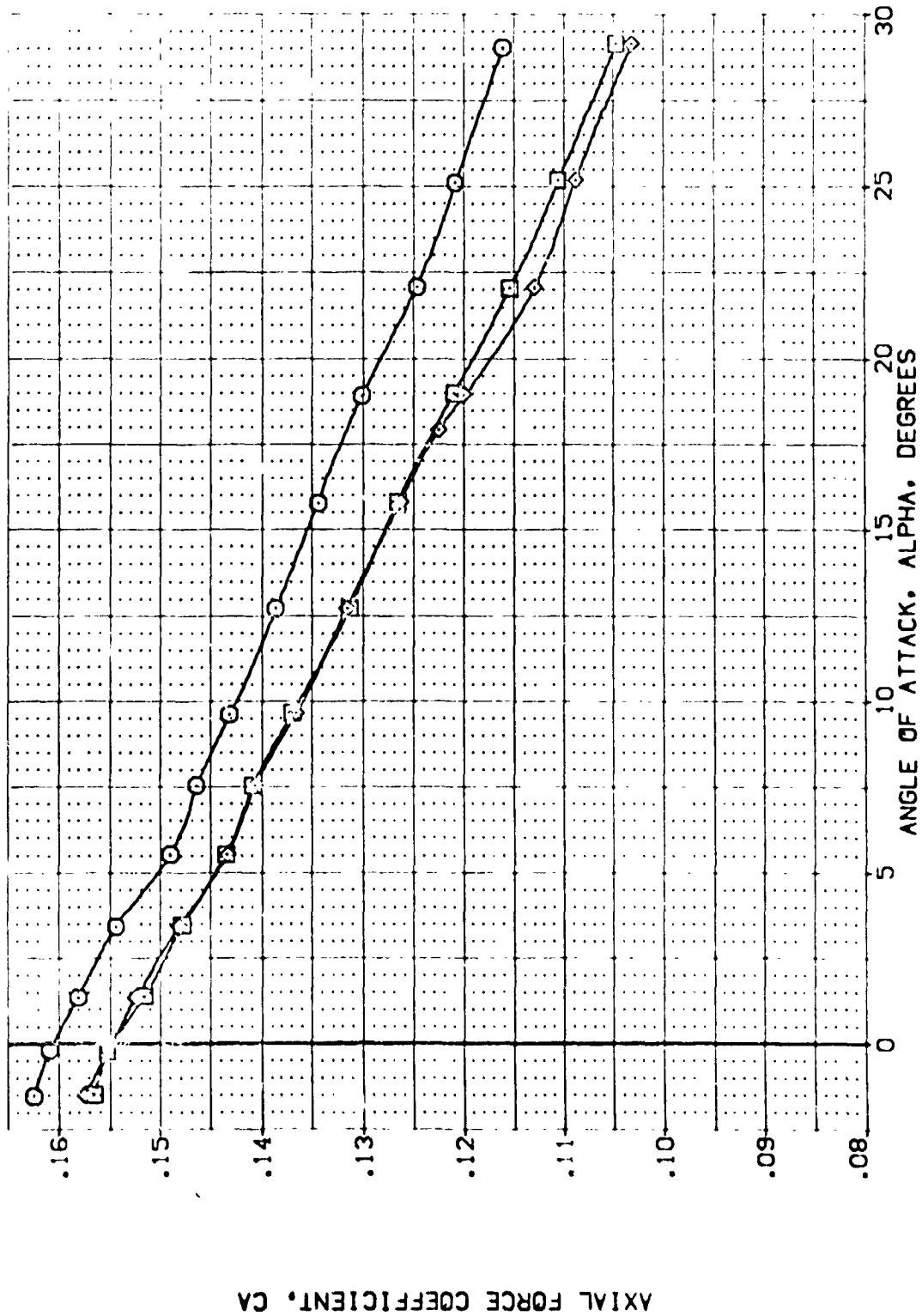


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	SOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	16.000	55.000	SREF 2-4710
(TEK016)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	.000	55.000	LREF 14.2470
(TEK011)	ARC 97-747 CAS-3 B C M F VI V	.000	.000	-11.700	55.000	BREF 20.1000
						XREF 32.1000
						YREF 11.5000
						ZREF 11.5000
						SCALE .0000

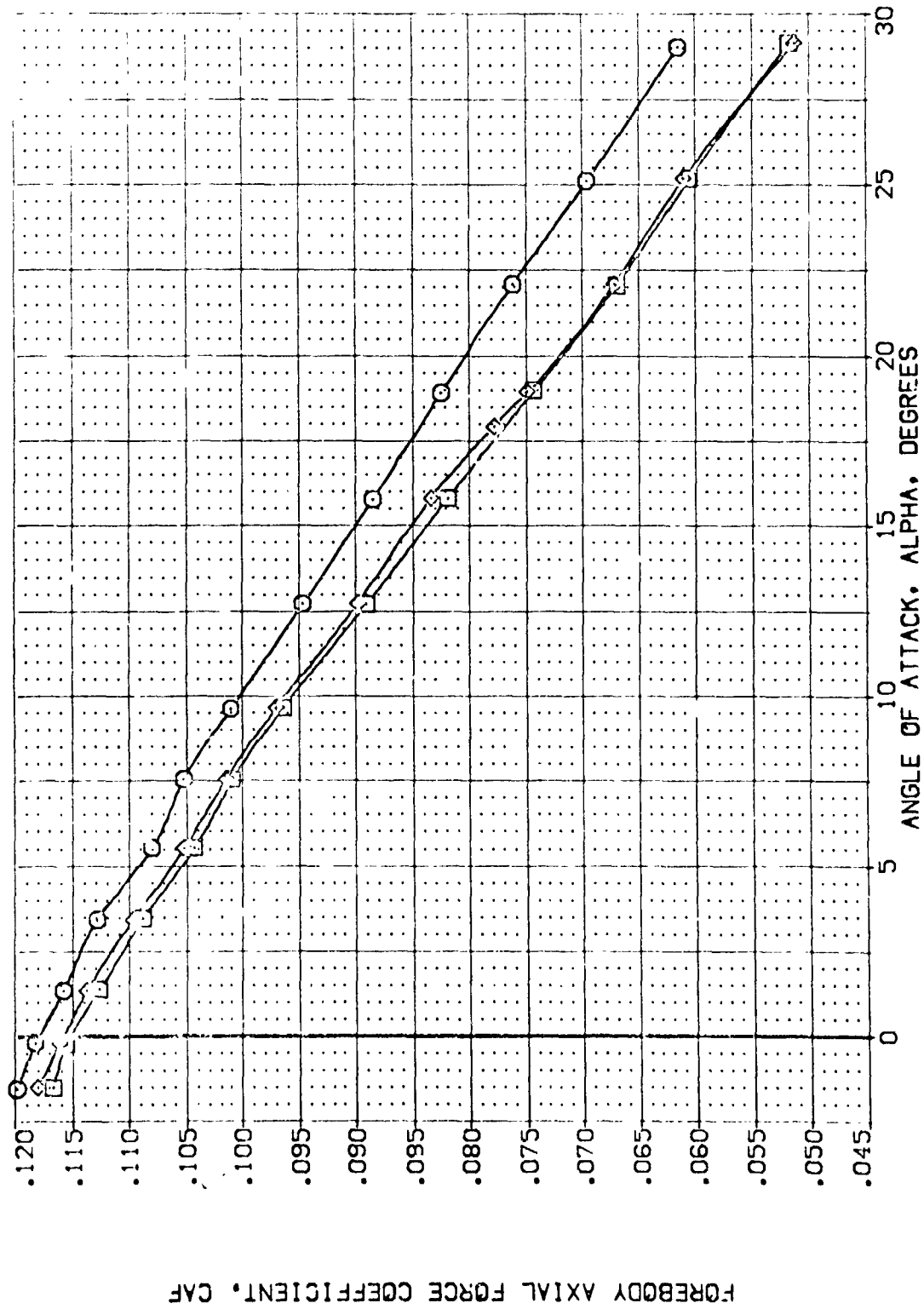


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK010}	ARC 97-747 OAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
{TEK016}	ARC 97-747 OAS38 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440
{TEK011}	ARC 97-747 OAS38 B C M F VI V	.000	.000	-11.700	55.000	BREF 20.1000
						XMRF 32.5010
						ZMRP .0000
						ZMRP 11.2500
						SCALE .0000
						SCALE

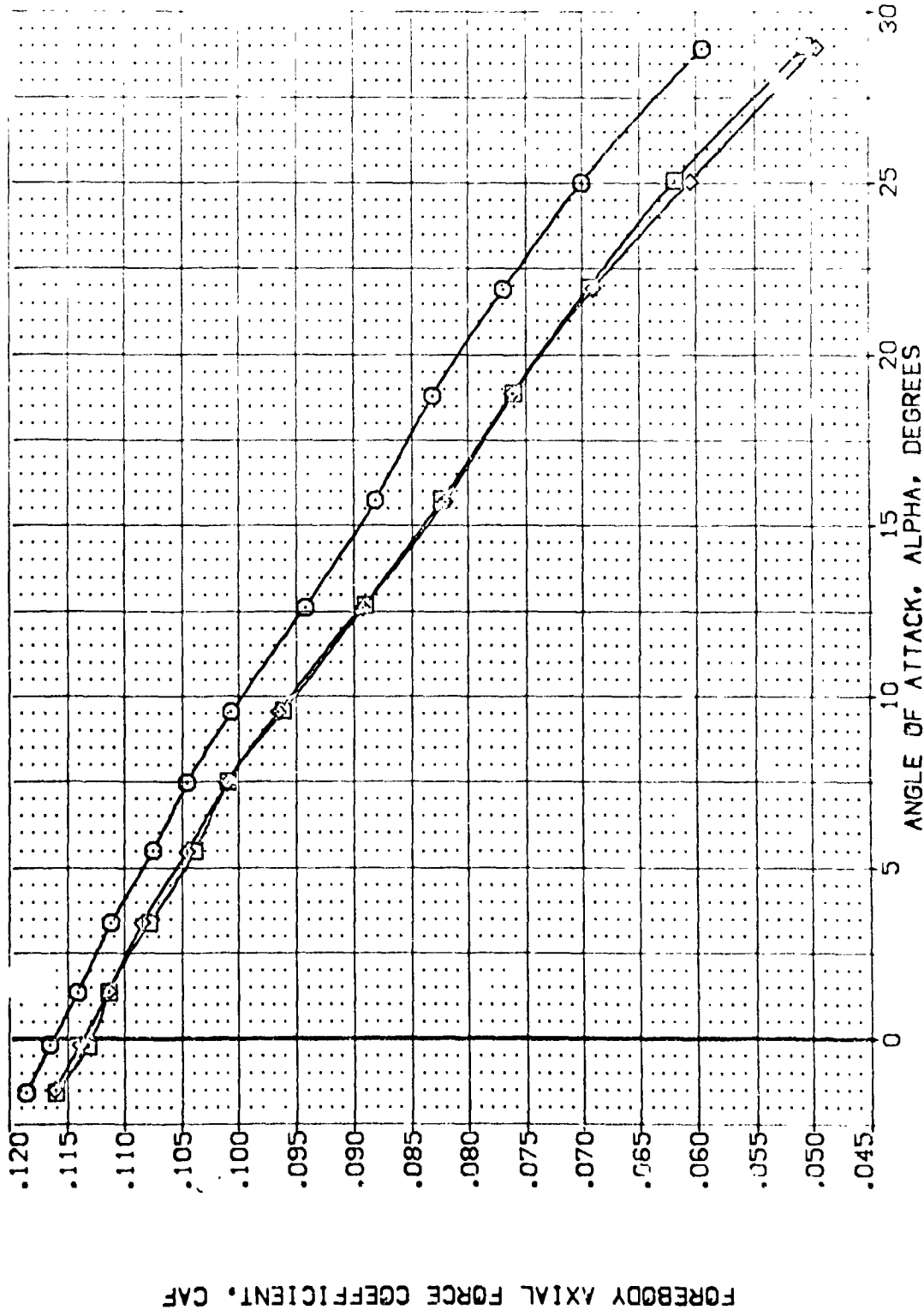


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDFLAP	SPODBK	REFERENCE INFORMATION
(TEG010)	ARC 97-747 0A503 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEG011)	ARC 97-747 0A503 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440
(TEG012)	ARC 97-747 0A503 B C M F VI V	.000	.000	-11.700	55.000	EREF 20.1004
						XREF 32.0010
						YREF 11.0000
						ZREF 11.0000
						SCALE .0000

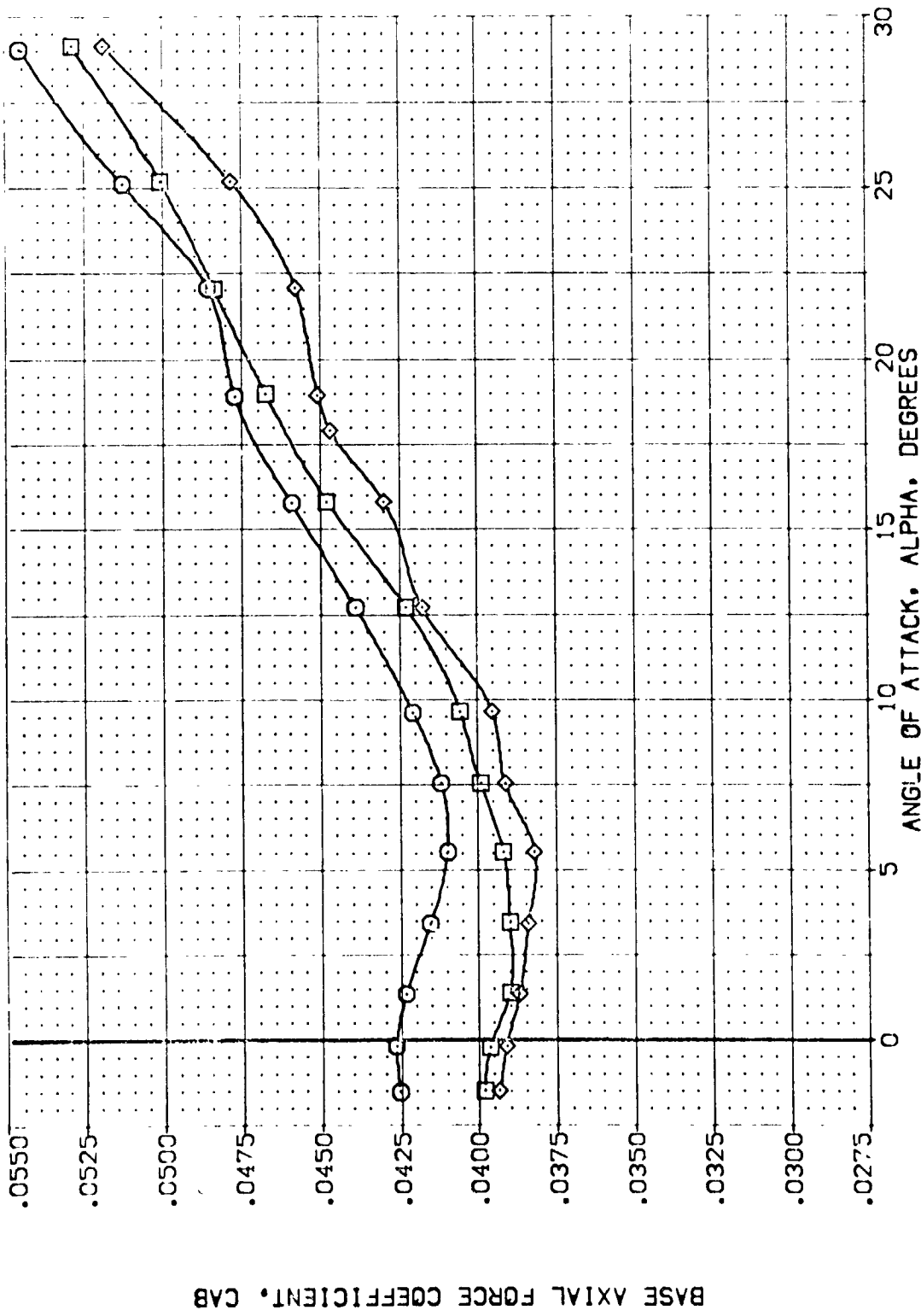


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL. CONFIGURATION DESCRIPTION
 (TEK010) [] ARC 97-747 DAS38 B C M F V1 V NOM. RV/L
 (TEK016) [] ARC 97-747 DAS33 B C M F V1 V NOM. RV/L
 (TEK011) [] ARC 97-747 DAS33 B C M F V1 V NOM. RV/L

ELEVON .000
 .000
 .000

AILERON .000
 .000
 .000

BDFLAP 16.300
 .000
 -11.700

SPOBRK 55.000
 55.000
 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.240 IN.
 BREF 23.1004 IN.
 XMRP 32.9010 IN.
 YMRP 11.2000 IN.
 ZMRP .0000 IN.
 SCALE .0000

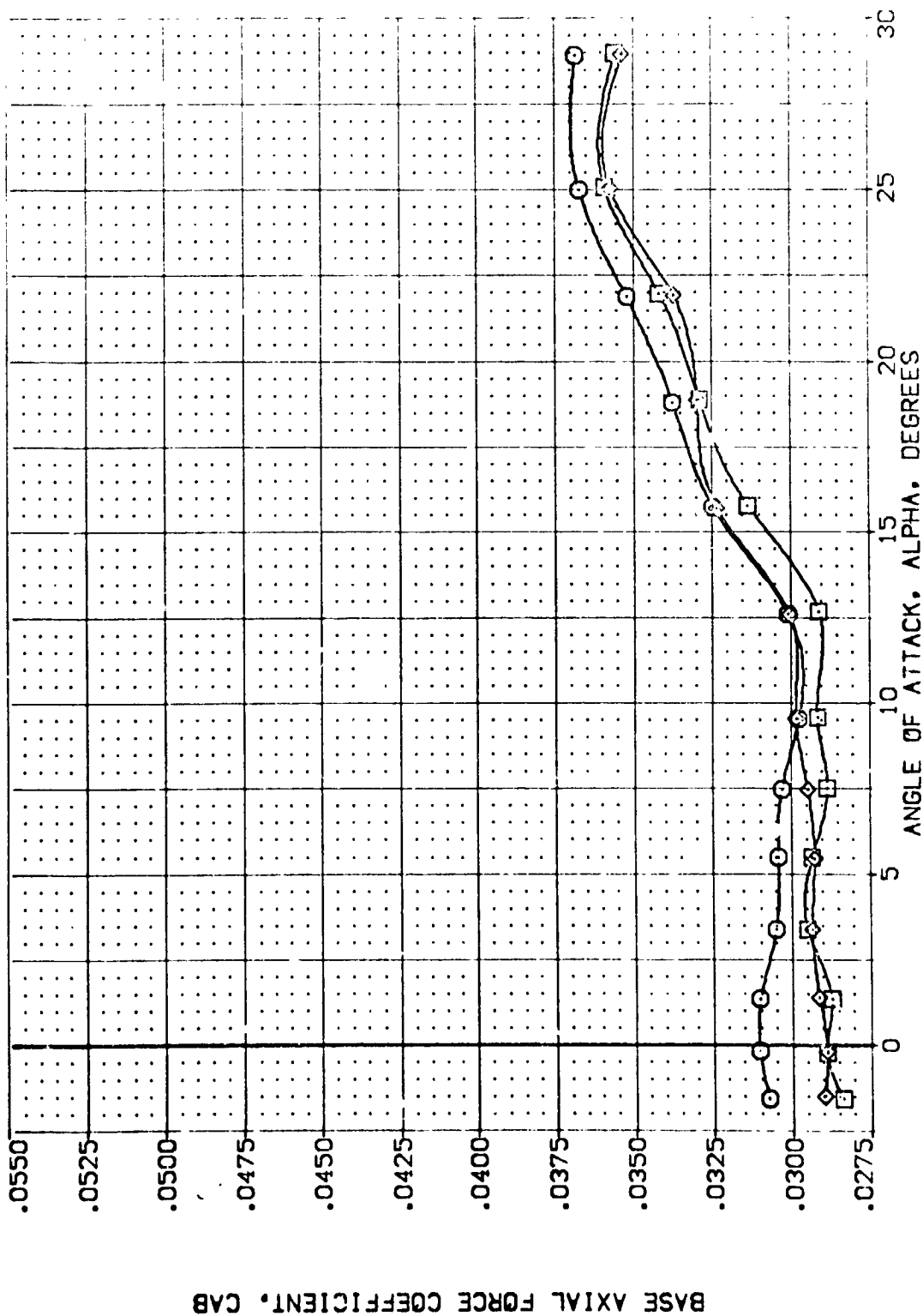


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBRK	REFERENCE INFORMATION
[TEK010]	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.200	55.000	SPICE 2.4210 SC.FT.
[TEK016]	ARC 97-747 CAS33 B C M F VI V	.000	.000	.000	55.000	SCALE 14.2240 IN.
[TEK011]	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	55.000	SCALE 20.1004 IN.
						SCALE 22.5310 IN.
						SCALE 11.2650 IN.
						SCALE .0000

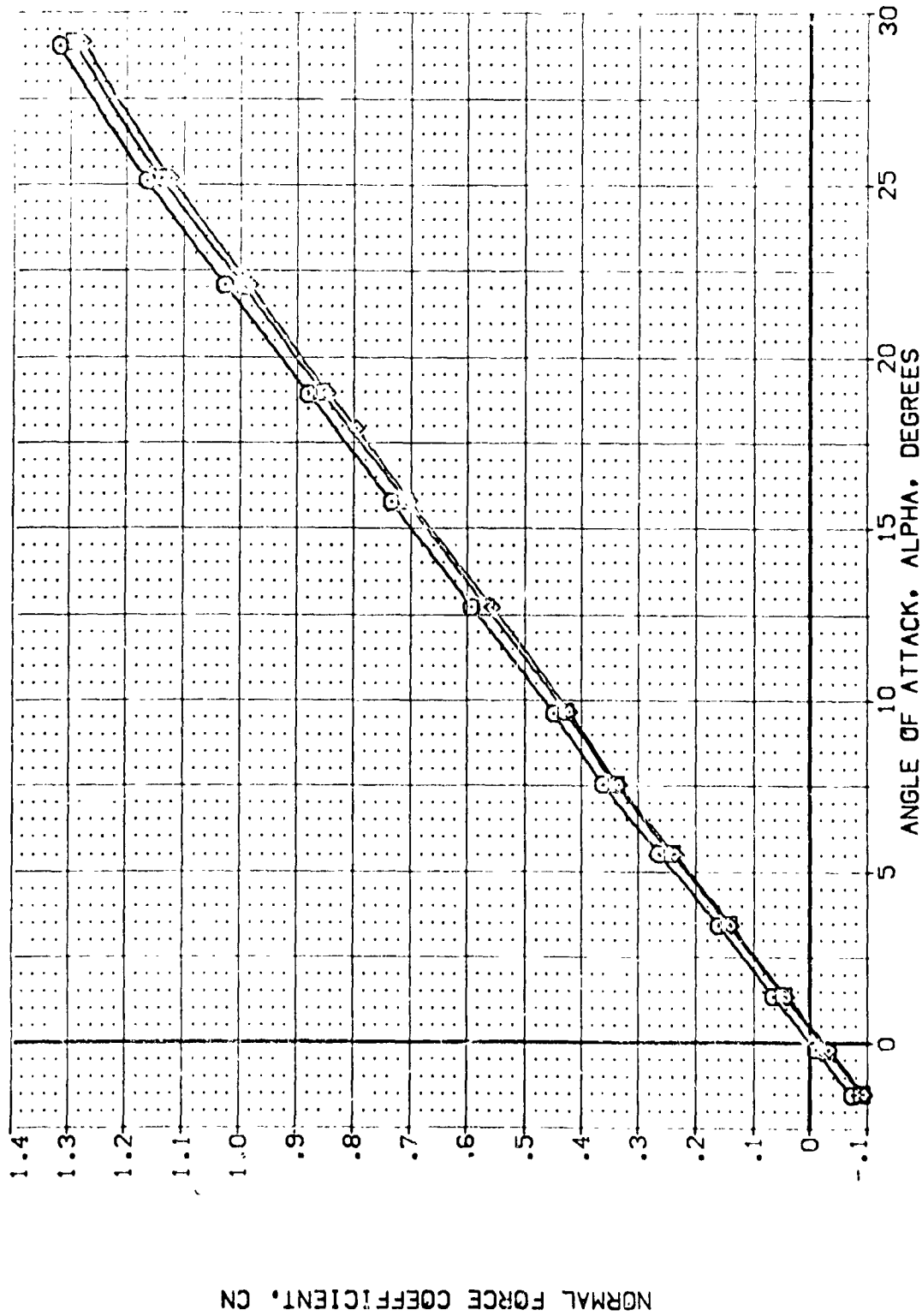


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[TEK010]	ARC 97-747	0A533 B C M F VI V	NOM. RNVL
[TEK016]	ARC 97-747	0A533 B C M F VI V	NOM. RNVL
[TEK011]	ARC 97-747	0A533 B C M F VI V	NOM. RNVL

ELEVATION AILTRON BODYFLAP SPINORK

.000	.000	16.300	55.000
.000	.000	.000	55.000
.000	.000	-11.700	55.000

REFERENCE INFORMATION

SREF	2.4210	55. FT.
LREF	14.2400	IN.
EREF	29.1004	IN.
XREF	32.0000	IN.
YREF	0.0000	IN.
ZREF	11.0000	IN.
SCALE	.0000	SCALE

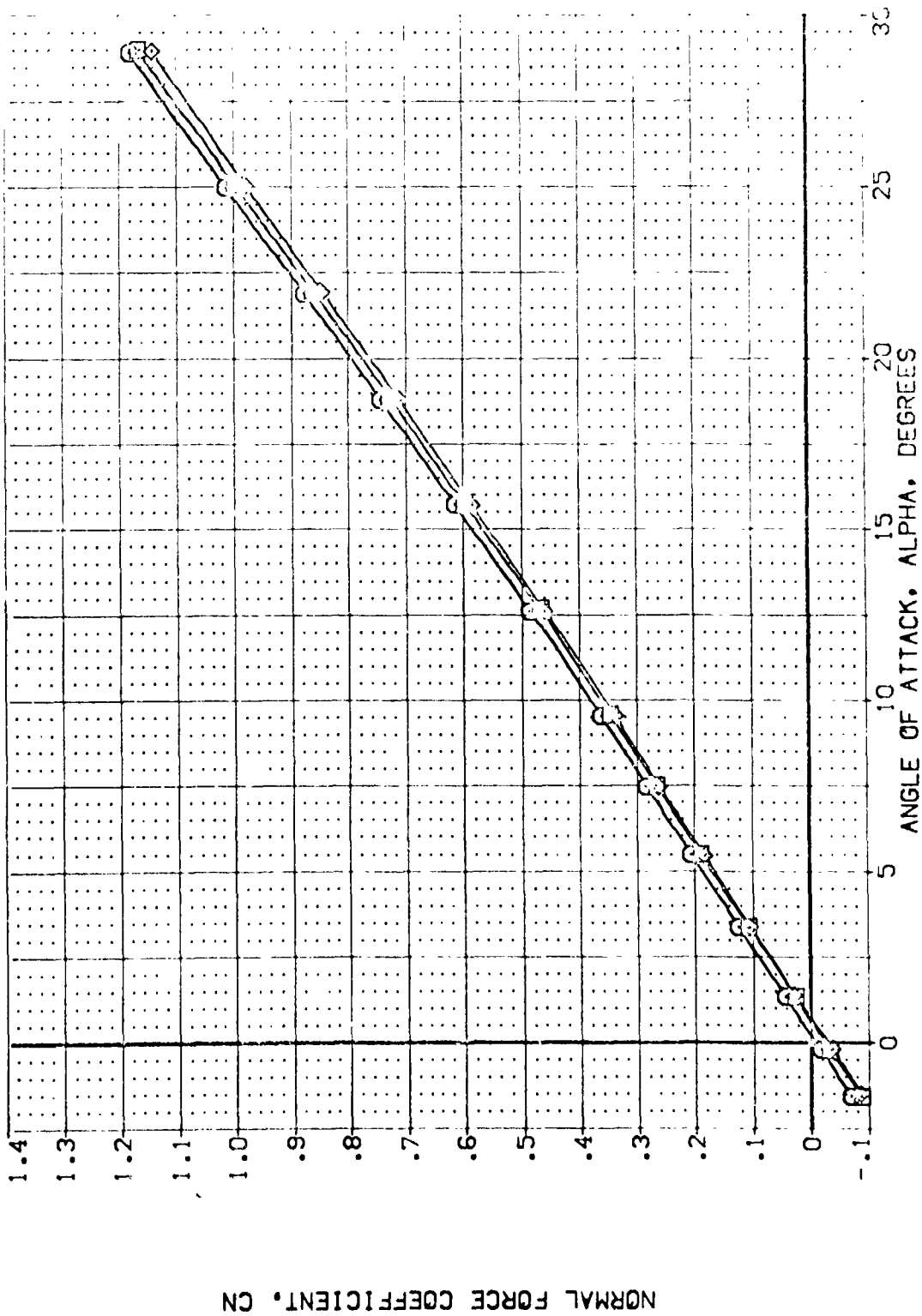
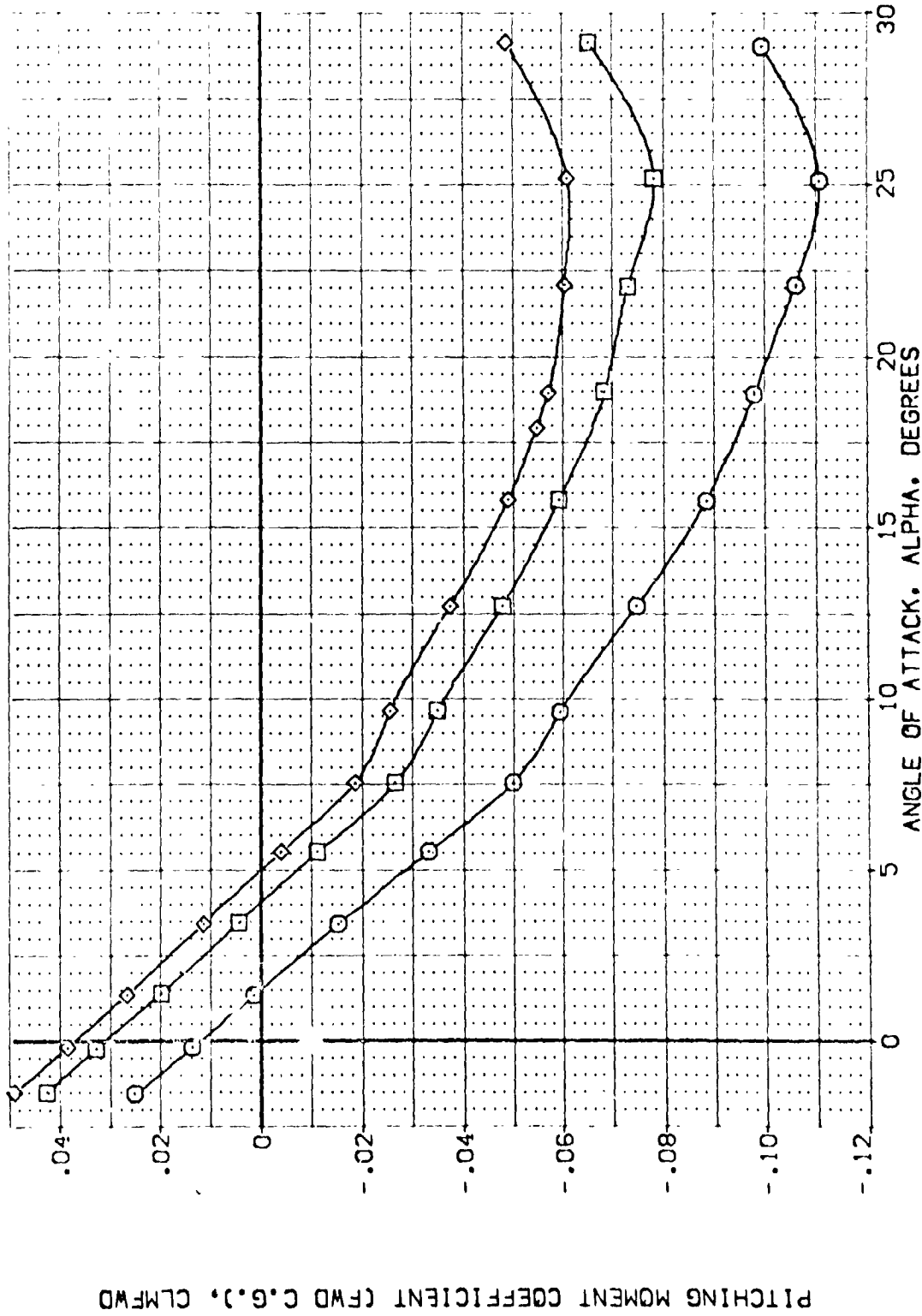


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODYFLAP	SPODBRK	REFERENCE INFORMATION
{TE010}	ARC 97-747 GA538 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
{TE016}	ARC 97-747 GA538 B C M F VI V	.000	.000	.000	55.000	LREF 14.2430 IN.
{TE011}	ARC 97-747 GA533 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1000 IN.
						ALREF 32.5010 IN.
						YMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE 11.42300 IN.
						SCALE .0000



PITCHING MOMENT COEFFICIENT (FWD C.G.), CLMFW

FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AILTRON BOFLAP SPOBRK REFERENCE INFORMATION

(TEK010) ARC 97-747 DAS38 B C M F VI V NOM. RV/L .000 .000 16.300 55.000 2.4210 SC.FT.

(TEK016) ARC 97-747 DAS38 B C M F VI V NOM. RV/L .000 .000 .000 55.000 14.2440

(TEK011) ARC 97-747 DAS38 B C M F VI V NOM. RV/L .000 .000 -11.700 55.000 23.1694

SCALE SCALE SCALE SCALE

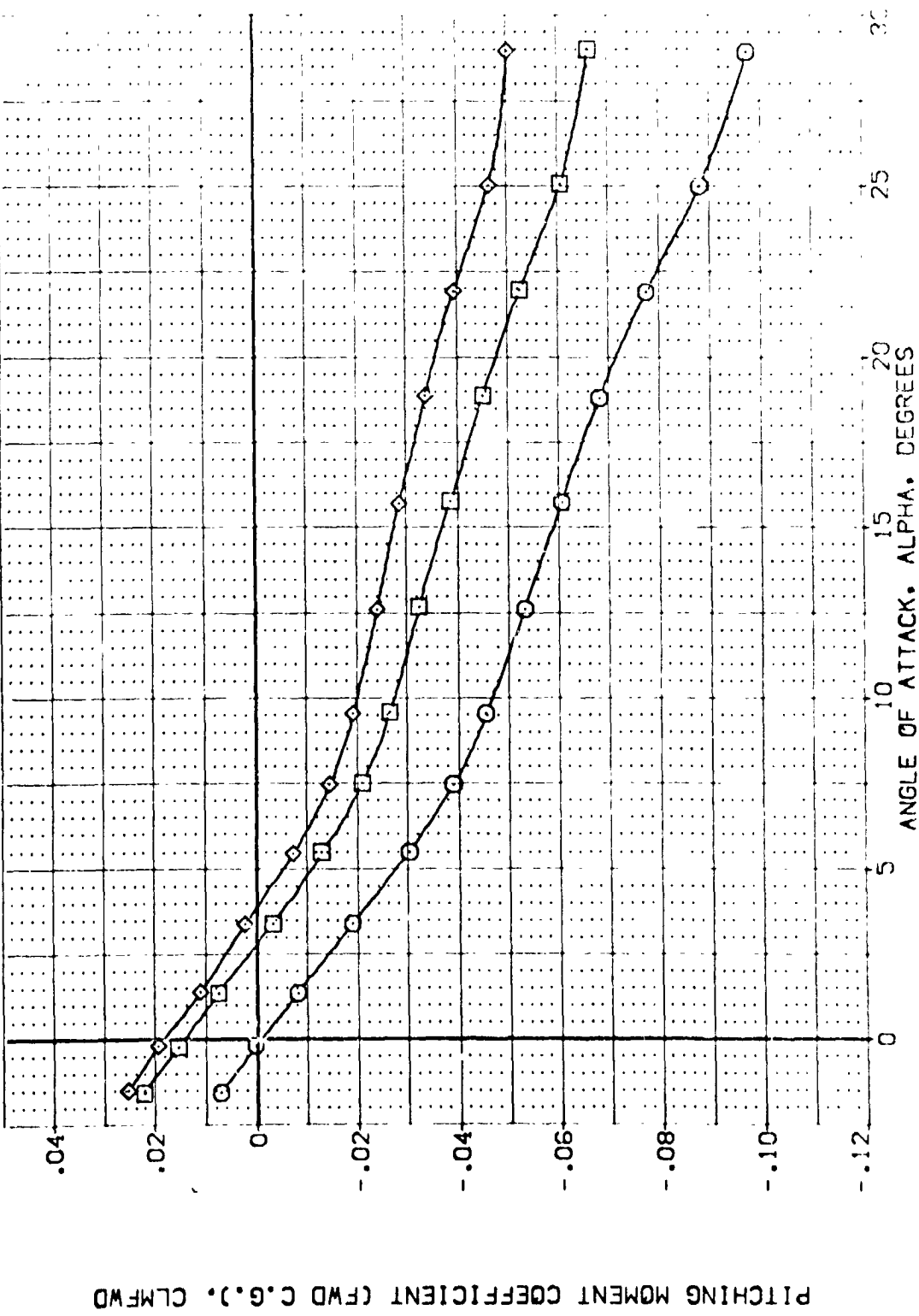


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

PITCHING MOMENT COEFFICIENT (AFT C.G.), CLMAFT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILERON	BODYFLAP	SPOILER	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS03 B C M F VI V	.000	.000	16.000	55.000	SREF 2.4210 SC.FT.
(TEK015)	ARC 97-747 CAS03 B C M F VI V	.000	.000	0.000	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 CAS03 B C M F VI V	.000	.000	-11.700	55.000	EREF 20.1004 IN.
						XMRP 92.5010 IN.
						YMRP .0000 IN.
						ZMRP 11.2600 IN.
						SCALE 11.0000

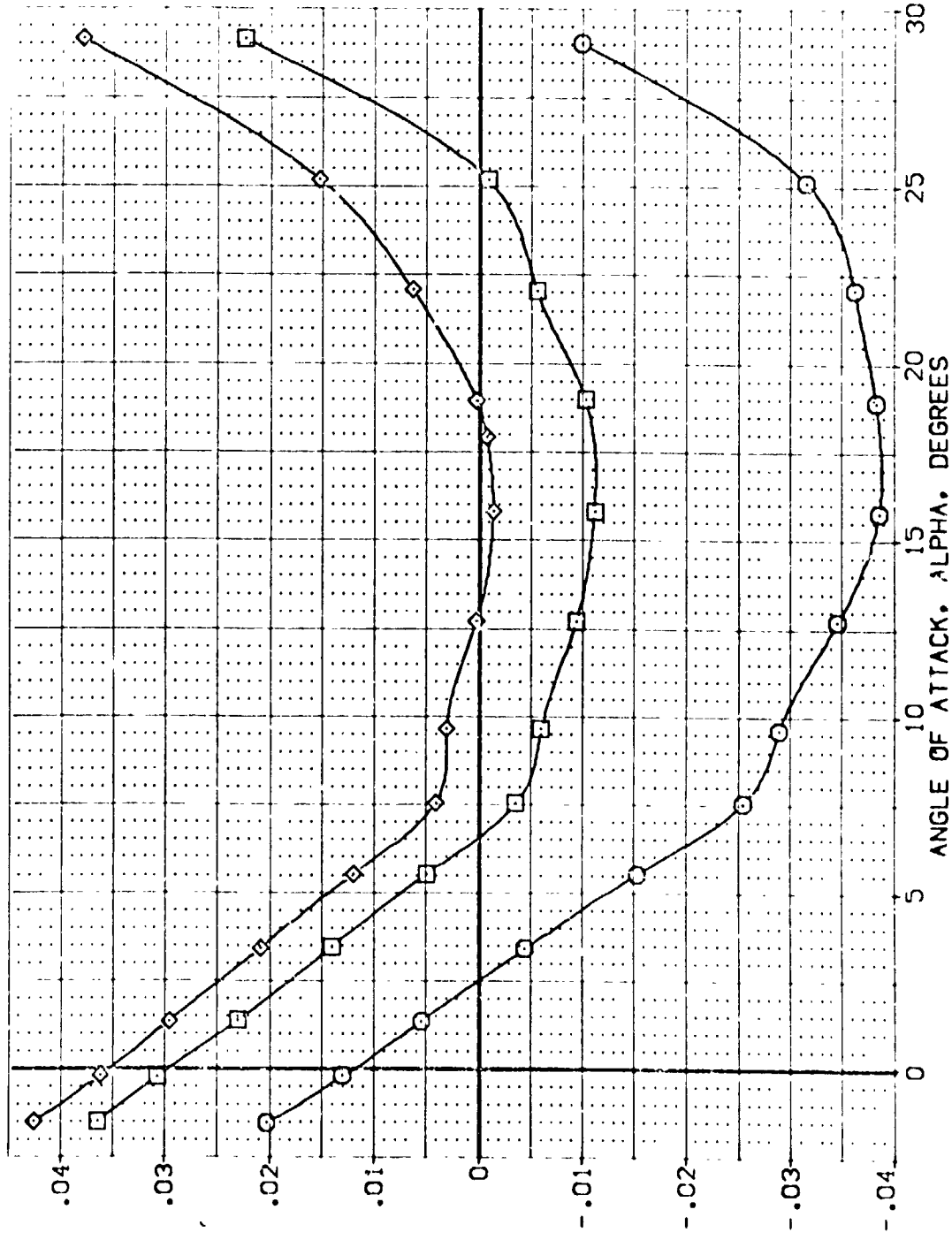


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILERON	BODYFLAP	SPOBRK	REFERENCE INFORMATION
(TEMP10)	ARC 97-747 BA538 B C H F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEMP16)	ARC 97-747 BA538 B C H F VI V	.000	.000	.000	55.000	LREF 14.2740
(TEMP11)	ARC 97-747 BA538 B C H F VI V	.000	.000	-11.700	55.000	BREF 20.1004
						XMREF 32.2010
						YMREF 11.2530
						ZMREF .0000
						SCALE .0000

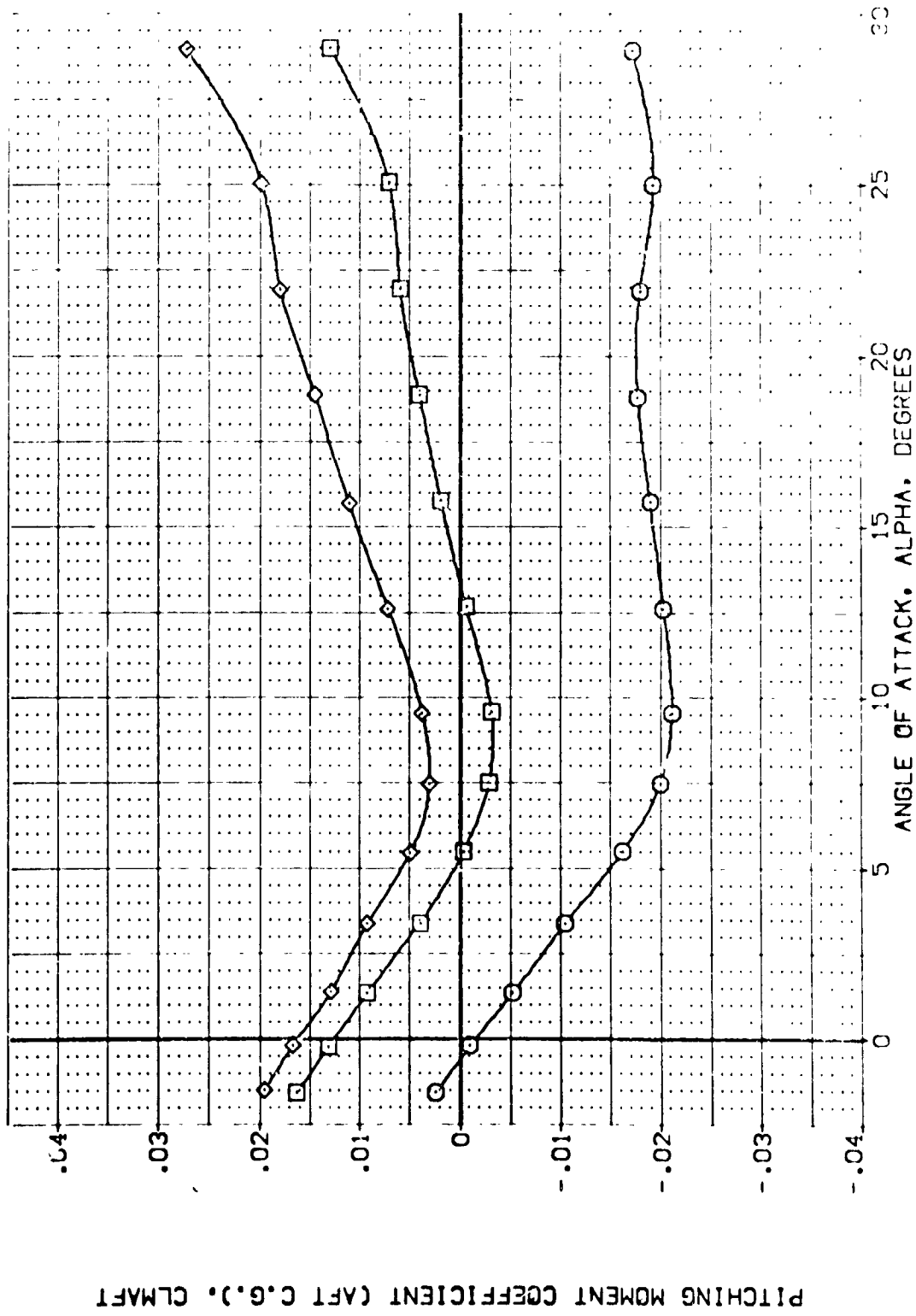


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDFLAP	SPODBK	REFERENCE INFORMATION
(TE-010)	ARC 9--747 C-5520 B C M F VI V	.000	.000	16.200	55.000	SREF 2.4210 50. FT.
(TE-016)	ARC 9--747 C-5523 B C M F VI V	.000	.000	16.200	55.000	LREF 14.2470 10. IN.
(TE-011)	ARC 9--747 C-5523 B C M F VI V	.000	.000	-11.700	55.000	EREF 23.1004 10. IN.
						XREF 32.1004 10. IN.
						YREF 11.1000 10. IN.
						ZREF 10.0000 10. IN.
						SCALE .0030

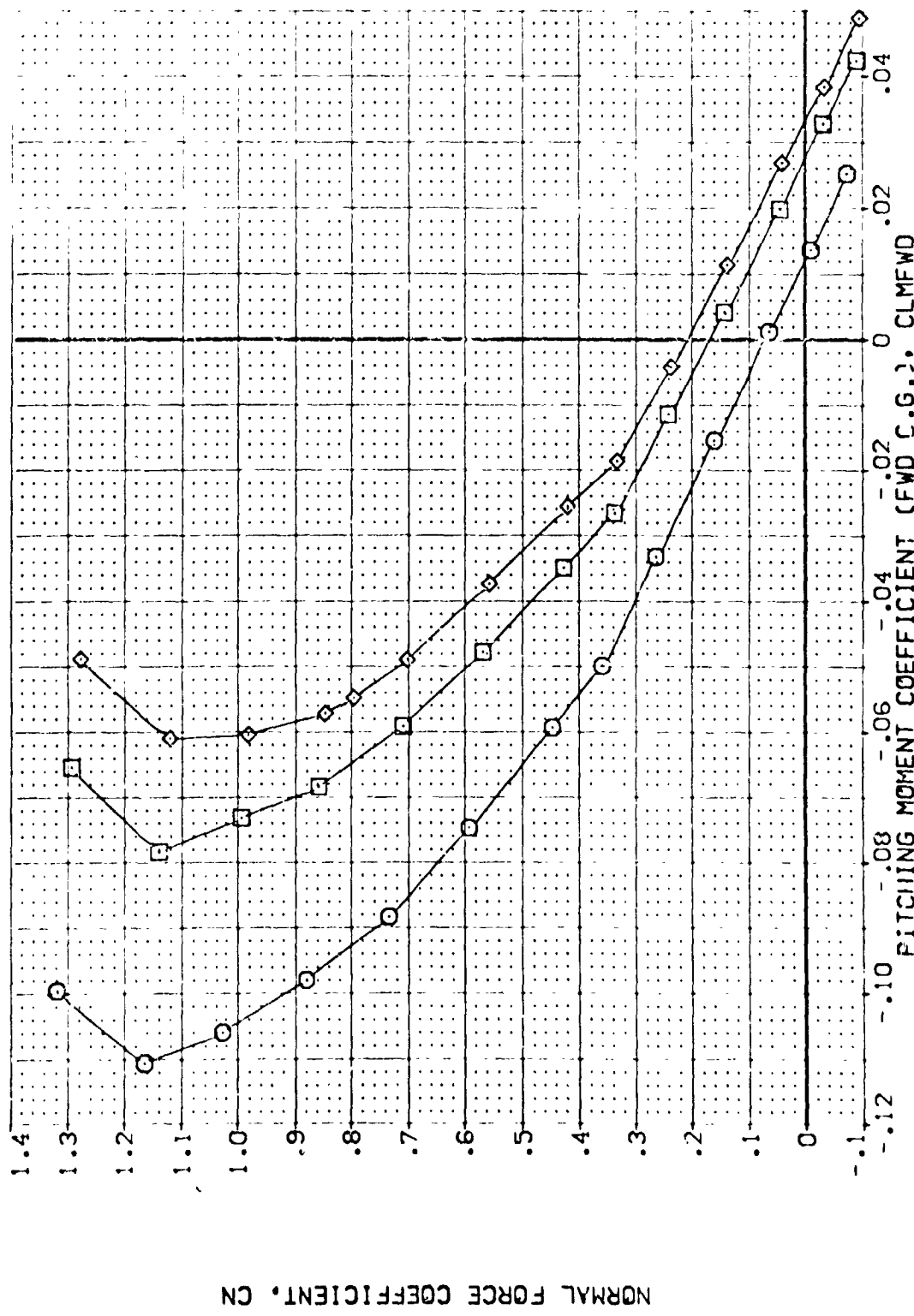


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (TERK010) (TERK016) (TERK011)
 CONFIGURATION DESCRIPTION: ARC 97-747 DASS3 B C M F VI V, ARC 97-747 DASS3 B C M F VI V, ARC 97-747 DASS3 B C M F VI V
 ELEVON: .000, .000, .000
 AILERON: .000, .000, .000
 BODYFLAP: 16.300, 55.000, -11.700
 SPOBRK: 55.000, 55.000, 55.000
 REFERENCE INFORMATION: SREF 2.4210, LREF 14.2440, EREF 20.1001, XMPD 32.2010, YMPD 11.0000, ZMPD .0000, SCALE .0000
 CO. FT.: 11.0000, 11.0000, 11.0000

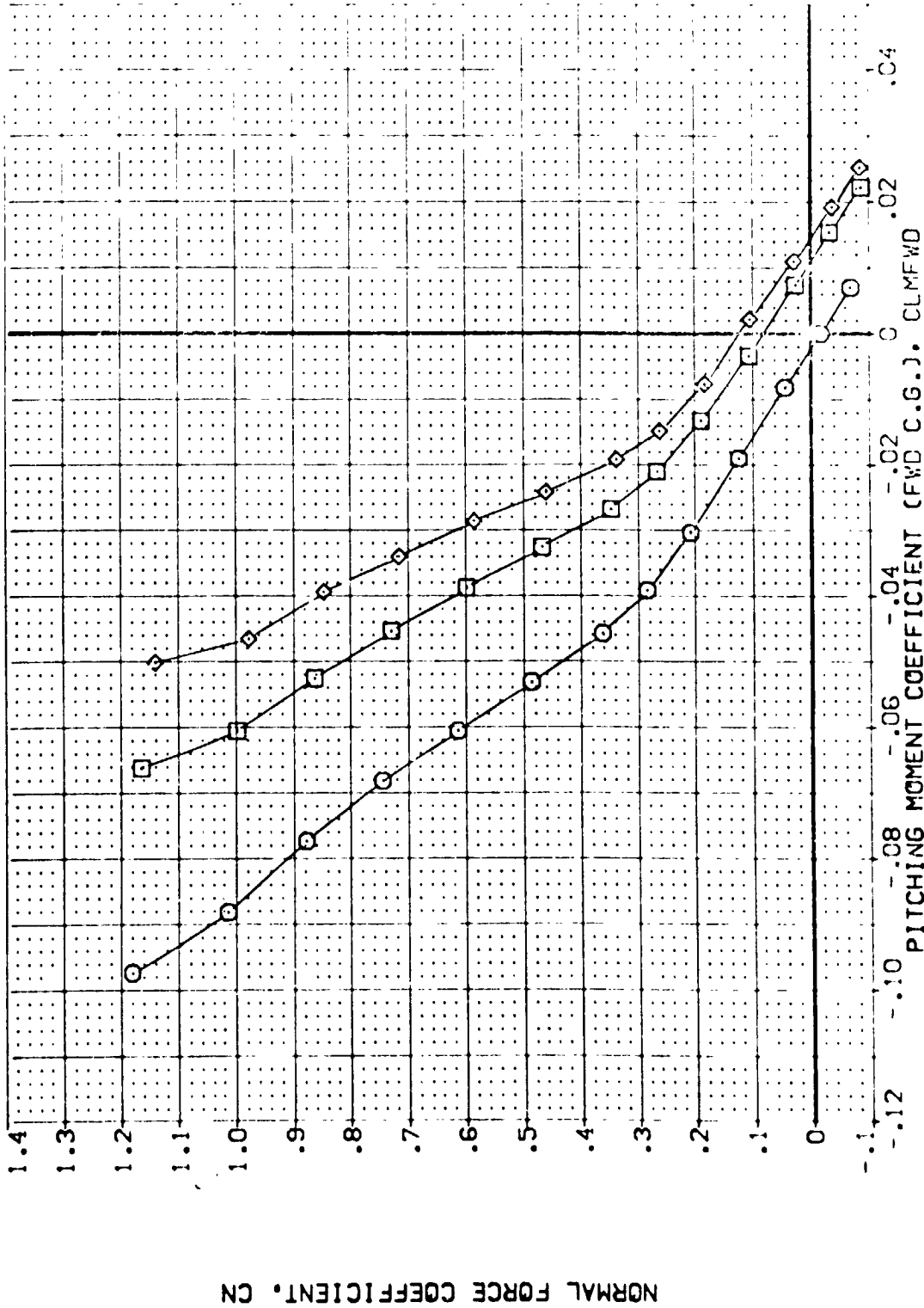


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEMP01)	ARC 97-747 CA538 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEMP02)	ARC 97-747 CA538 B C M F VI V	.000	.000	.000	55.000	LREF 14.2349 IN.
(TEMP03)	ARC 97-747 CA538 B C M F VI V	.000	.000	-11.700	55.000	BREF 28.1061 IN.
(TEMP04)	ARC 97-747 CA538 B C M F VI V	.000	.000			XREF 32.0310 IN.
						YREF 0.0000 IN.
						ZMSP 11.2000 IN.
						SCALE .0000

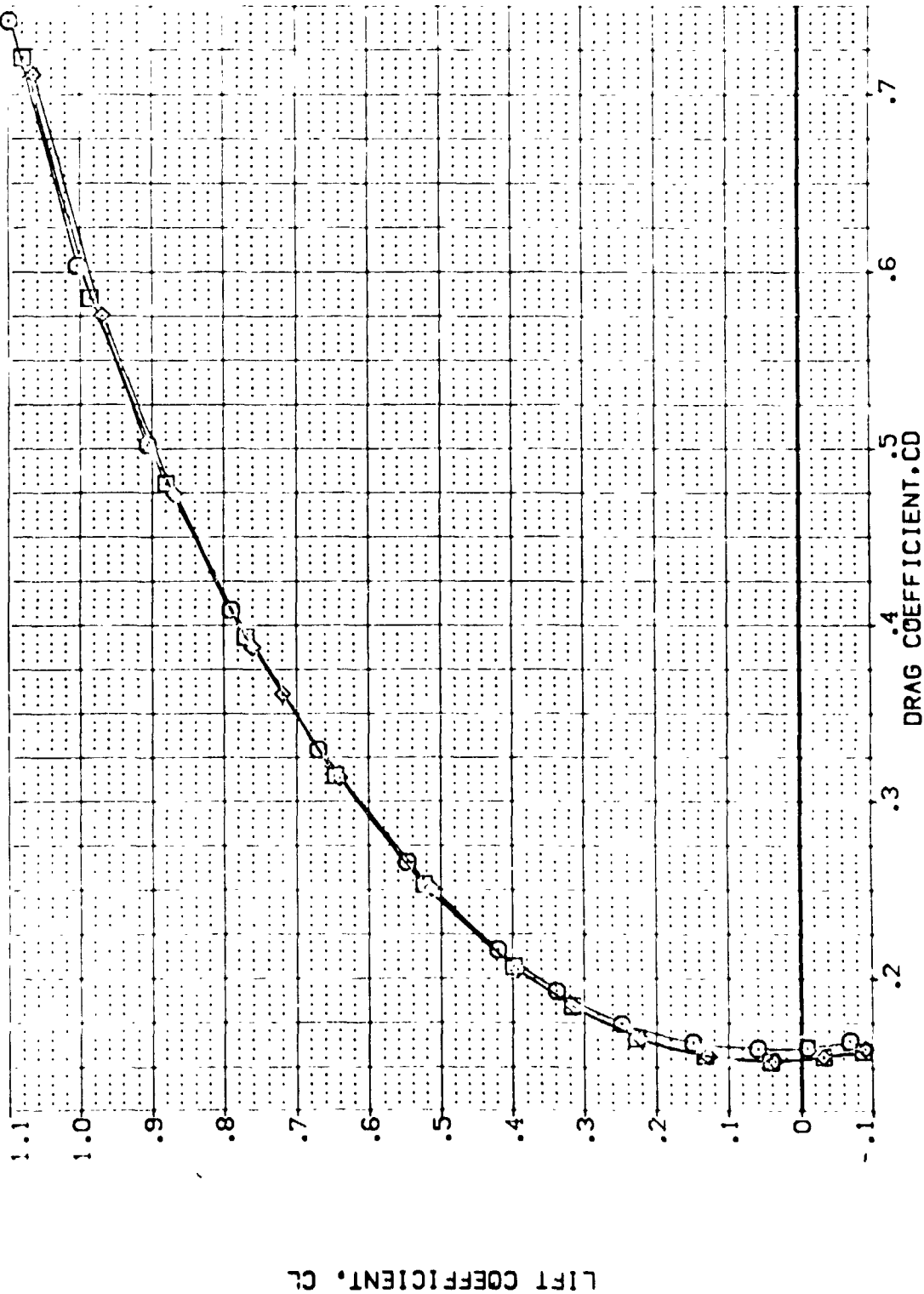


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BODY LAP	SPOROK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 GAS33 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK016)	ARC 97-747 GAS33 B C M F VI V	.000	.000	.000	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 GAS33 B C M F VI V	.000	.000	-11.700	55.000	BREF 26.1004 IN.
						XREF 37.7010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

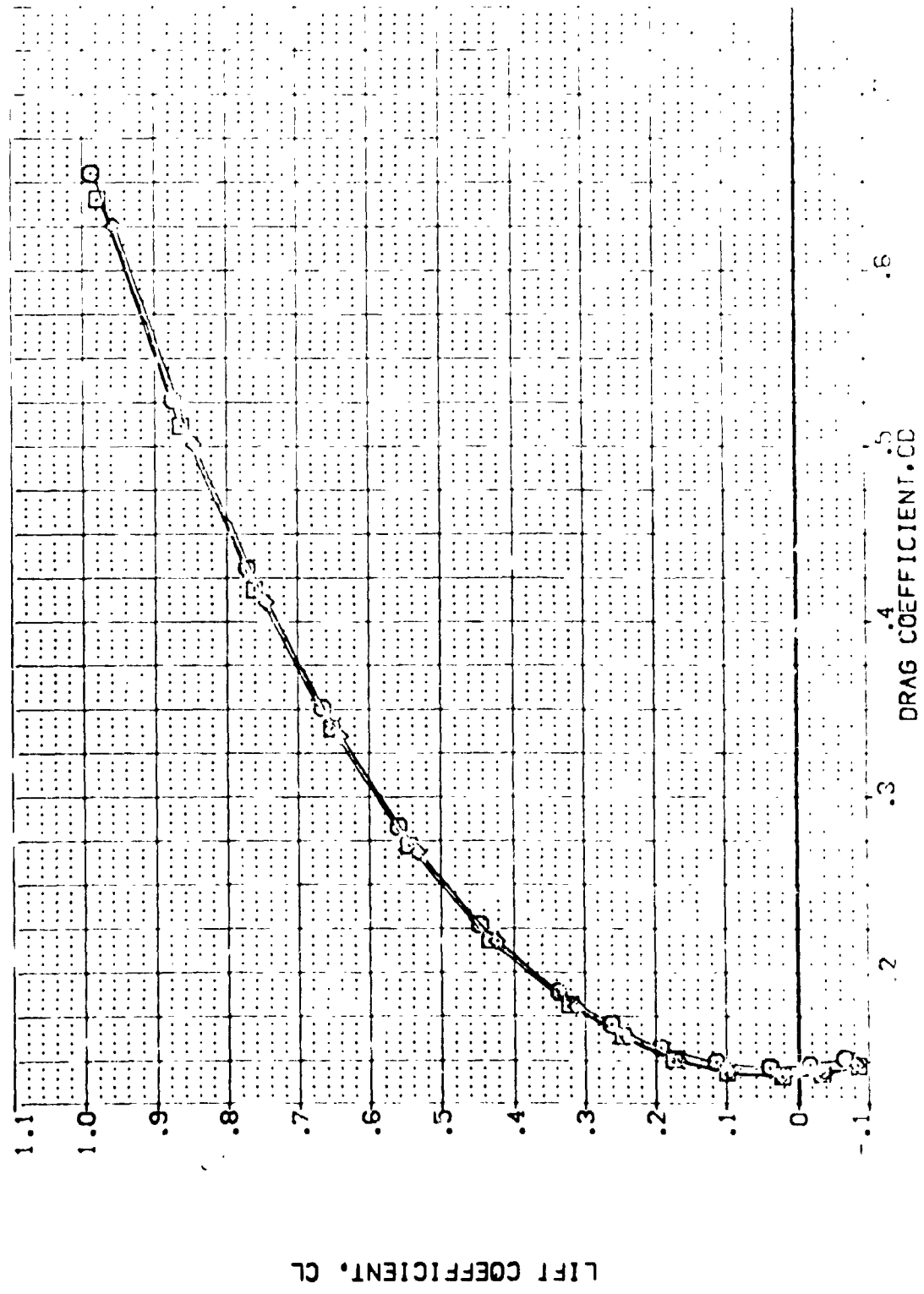


FIG. 8 BODYFLAP EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS-3 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK015)	ARC 97-747 DAS-3 B C M F VI V	.000	.000	1.000	55.000	LREF 14.2440 IN.
(TEK011)	ARC 97-747 DAS-3 B C M F VI V	.000	.000	-11.700	55.000	DREF 29.1004 IN.
						XREF 32.0010 IN.
						YMAP .0000 IN.
						ZMAP 11.2500 IN.
						SCALE .0000 CC/ALE

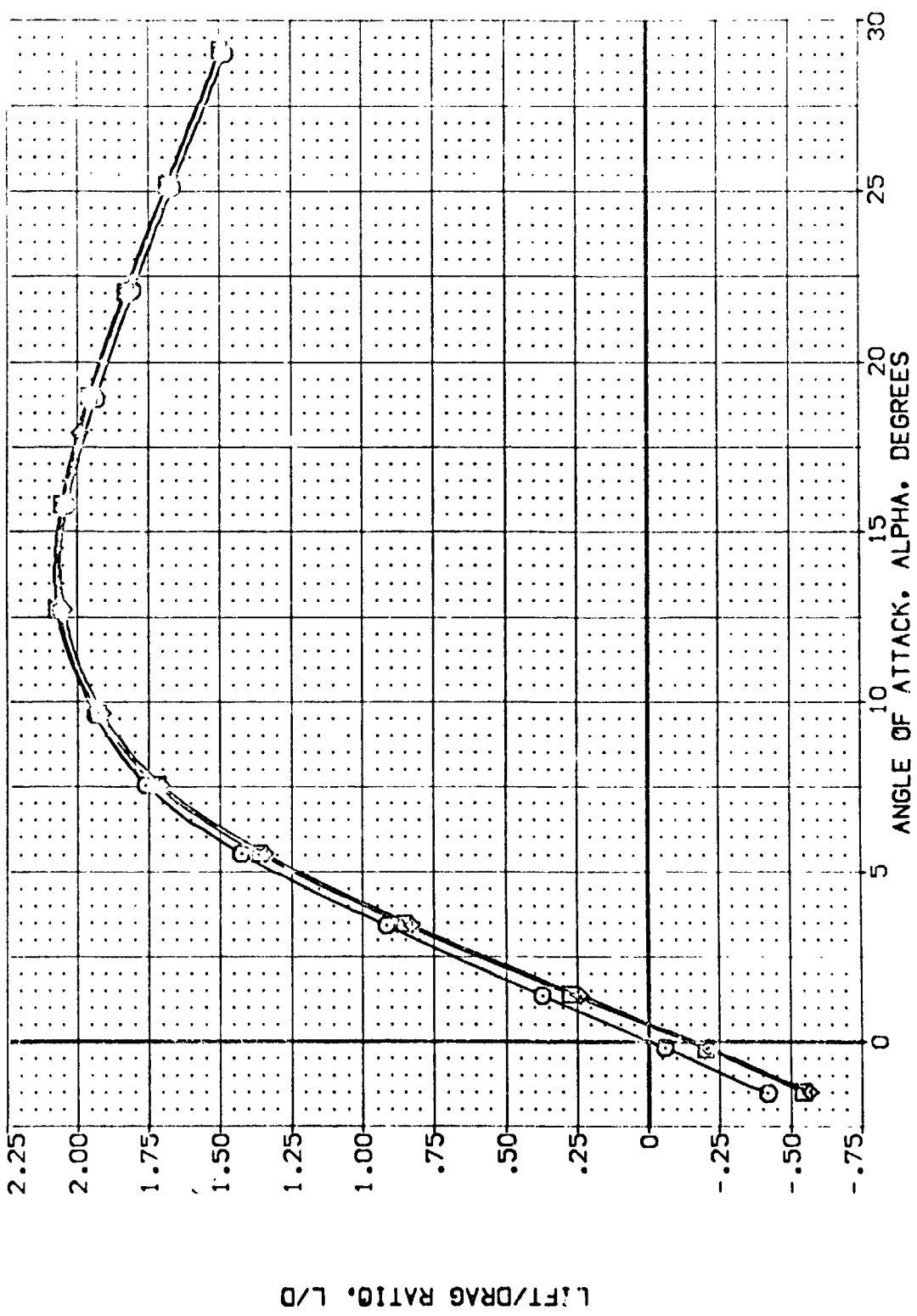


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF LAP	SPOBRK	REFERENCE INFORMATION
(TEKD10)	ARC 97-747 GAS39 B C M F VI V	.000	.000	16.000	55.000	2.4210 SQ. FT.
(TEKD16)	ARC 97-747 GAS33 B C M F VI V	.000	.000	16.000	55.000	14.2440 IN.
(TEKD11)	ARC 97-747 GAS33 B C M F VI V	.000	.000	-11.700	55.000	23.1004 IN.
						32.2510 IN.
						11.2500 IN.
						11.2500 IN.
						SCALE

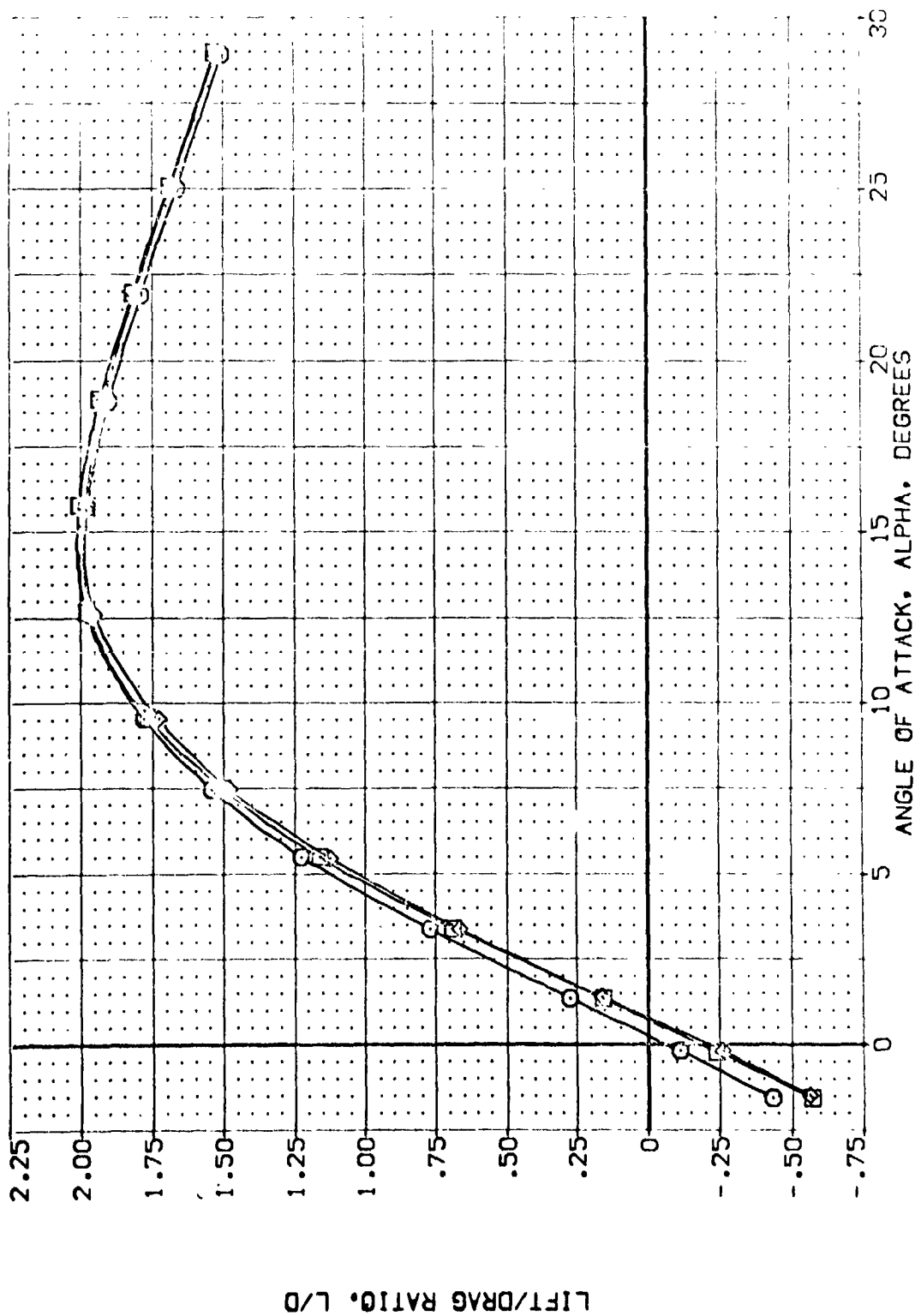


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(AEK010)	ARC 97-747 DASE3 B C M F V1 V	.000	.000	16.000	55.700	SREF 2.4210 50. FT.
(AEP016)	ARC 97-747 DASE3 B C M F V1 V	.000	.000	16.000	55.000	LREF 14.2740 IN.
(AEK011)	ARC 97-747 DASE3 B C M F V1 V	.000	.000	-11.700	55.000	BREF 28.1000 IN.
						XMREF 32.0010 IN.
						ZMREF 11.0000 IN.
						SCALE .0000

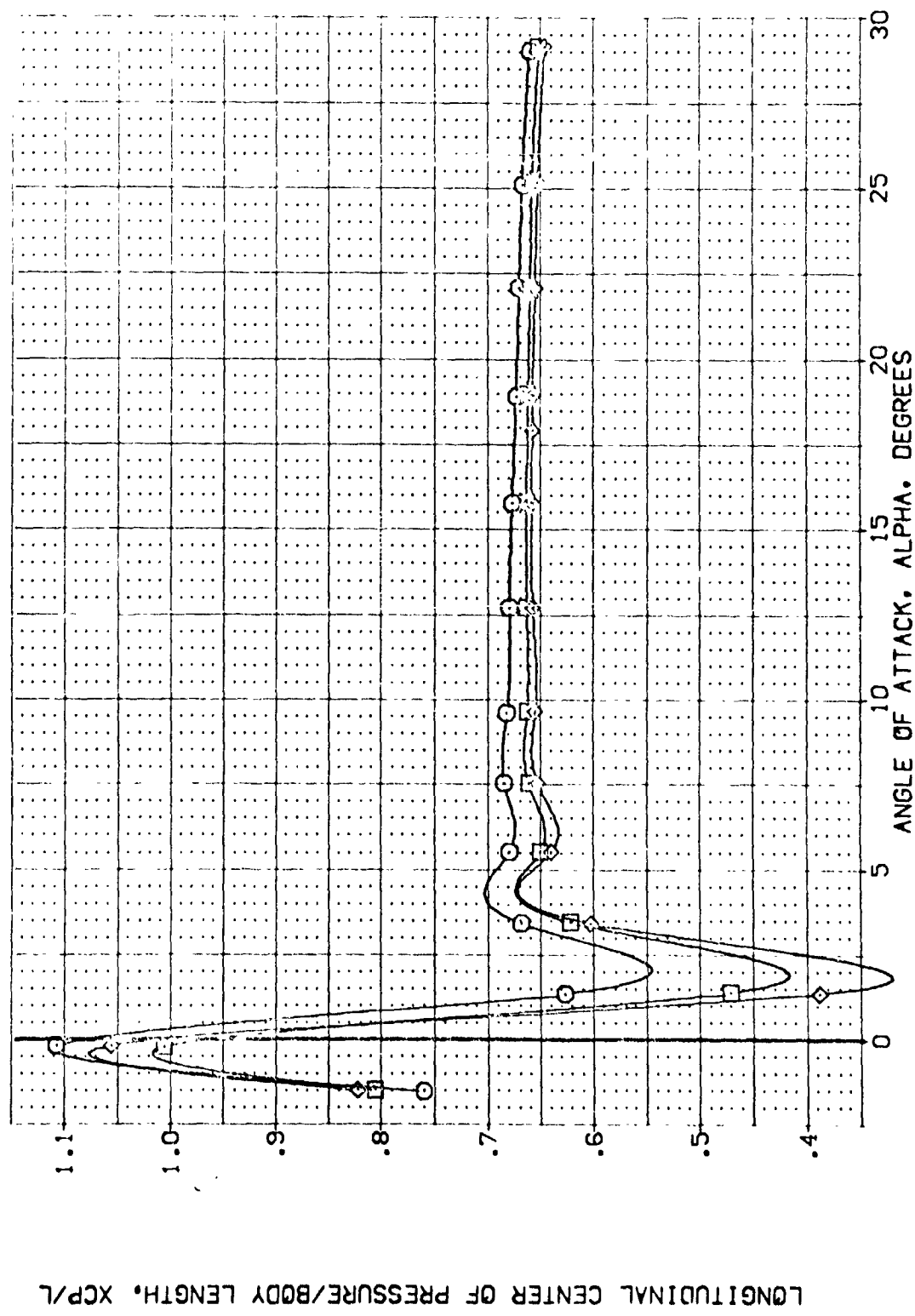
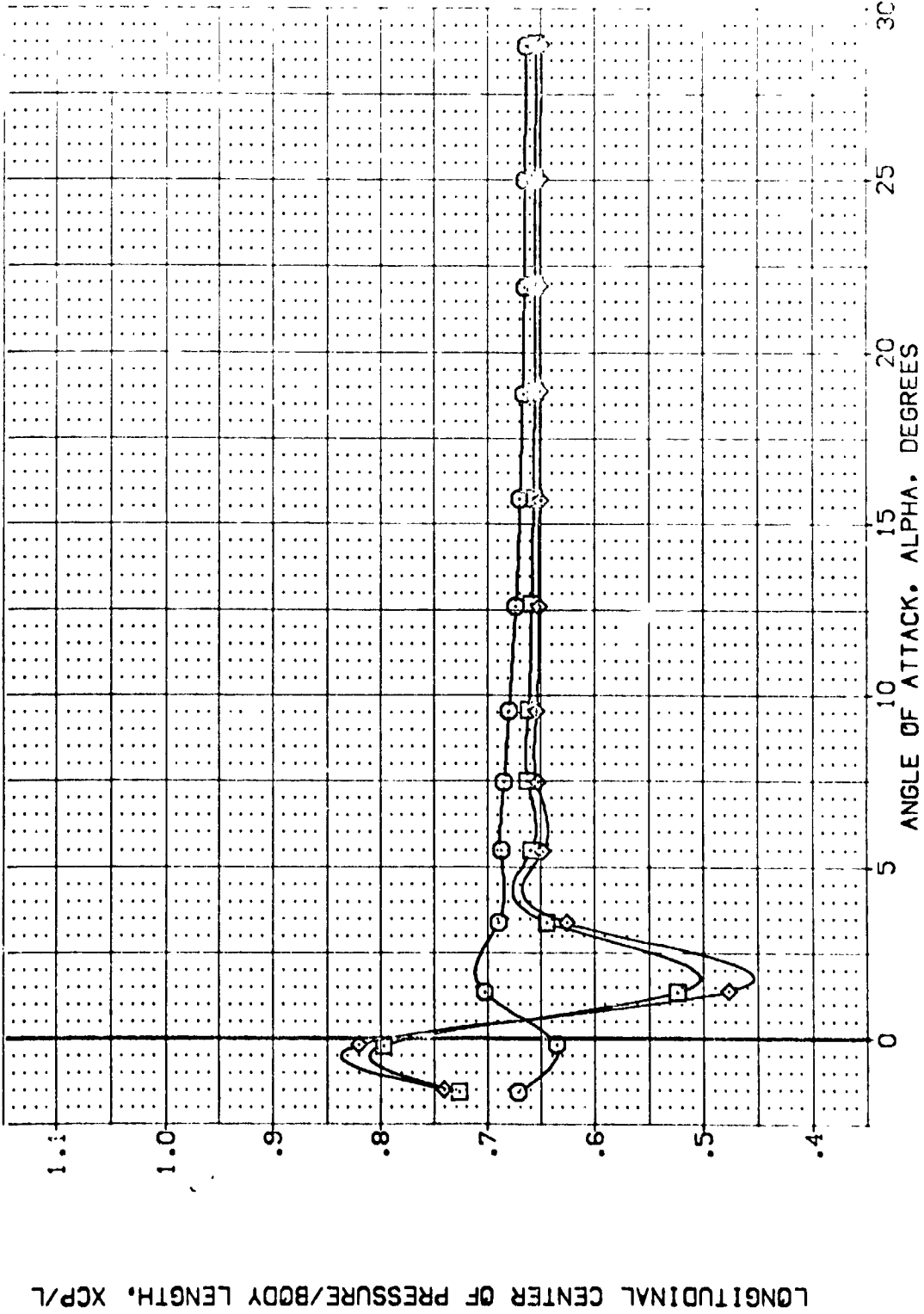


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[AER010]	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	2.4210 SQ. FT.
[AER016]	ARC 97-747 DAS38 B C M F VI V	.000	.000	.000	55.000	14.2740 IN.
[AER011]	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	29.1004 IN.
						32.6010 IN.
						.0000 IN.
						11.2700 IN.
						.0000 SCALE



LONGITUDINAL CENTER OF PRESSURE/BODY LENGTH, XCP/L

FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: (VEKD10) (VEKD11)
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V, NCH: RV/L, NCH: RV/L
 ELEVON: .000, AILTRON: .000, DBF: 16.300, SPOBRK: 55.000, 55.000
 REFERENCE INFORMATION: SREF: 2.4210, SC.FT.: 70.000, LREF: 14.2410, YREF: 23.1004, XMRP: 32.0010, YMRP: .0000, ZMRP: .0000, SCALE: 11.2000, .0010

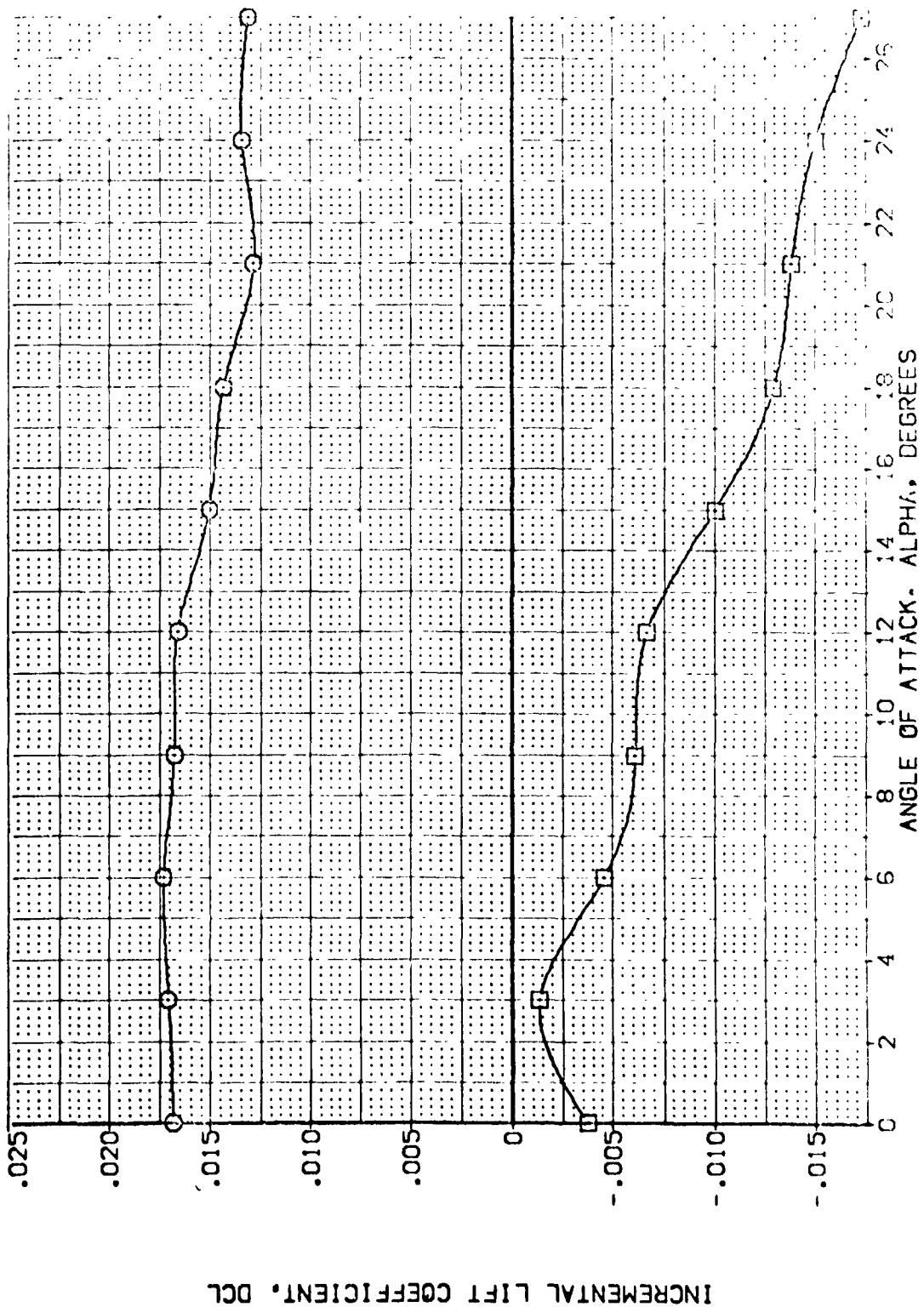


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	DBF	SPOBRK	REFERENCE INFORMATION
(VEP:0)	ARC 97-747 C4538 B C M F V I V	.000	.000	16.300	55.000	SREF 2.4210
(VEP:1)	ARC 97-747 C4538 B C M F V I V	.000	.000	-11.700	55.000	LRREF 14.2740
						BRREF 23.1000
						YREF 32.5510
						ZREF 10.0000
						YMRP 7.0000
						ZMRP 11.2000
						SCALE .0003

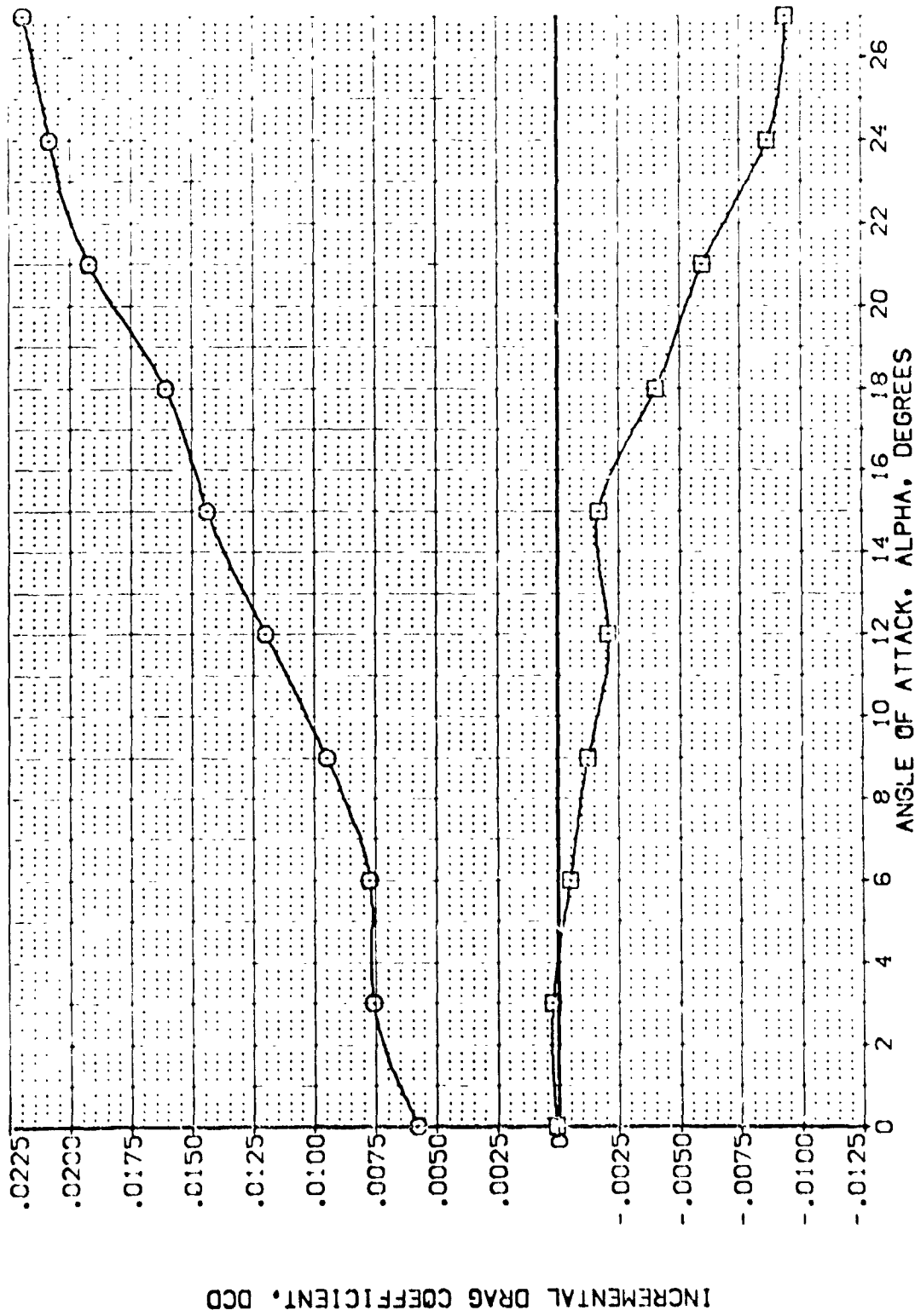


FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	DEF	SPODBRK	REFERENCE INFORMATION
[VEN010]	ARC 97-747 B A538 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 50. FT.
[VEN011]	ARC 97-747 B A538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2740 IN.
						BREF 28.1004 IN.
						XREF 32.0316 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000 SCALE

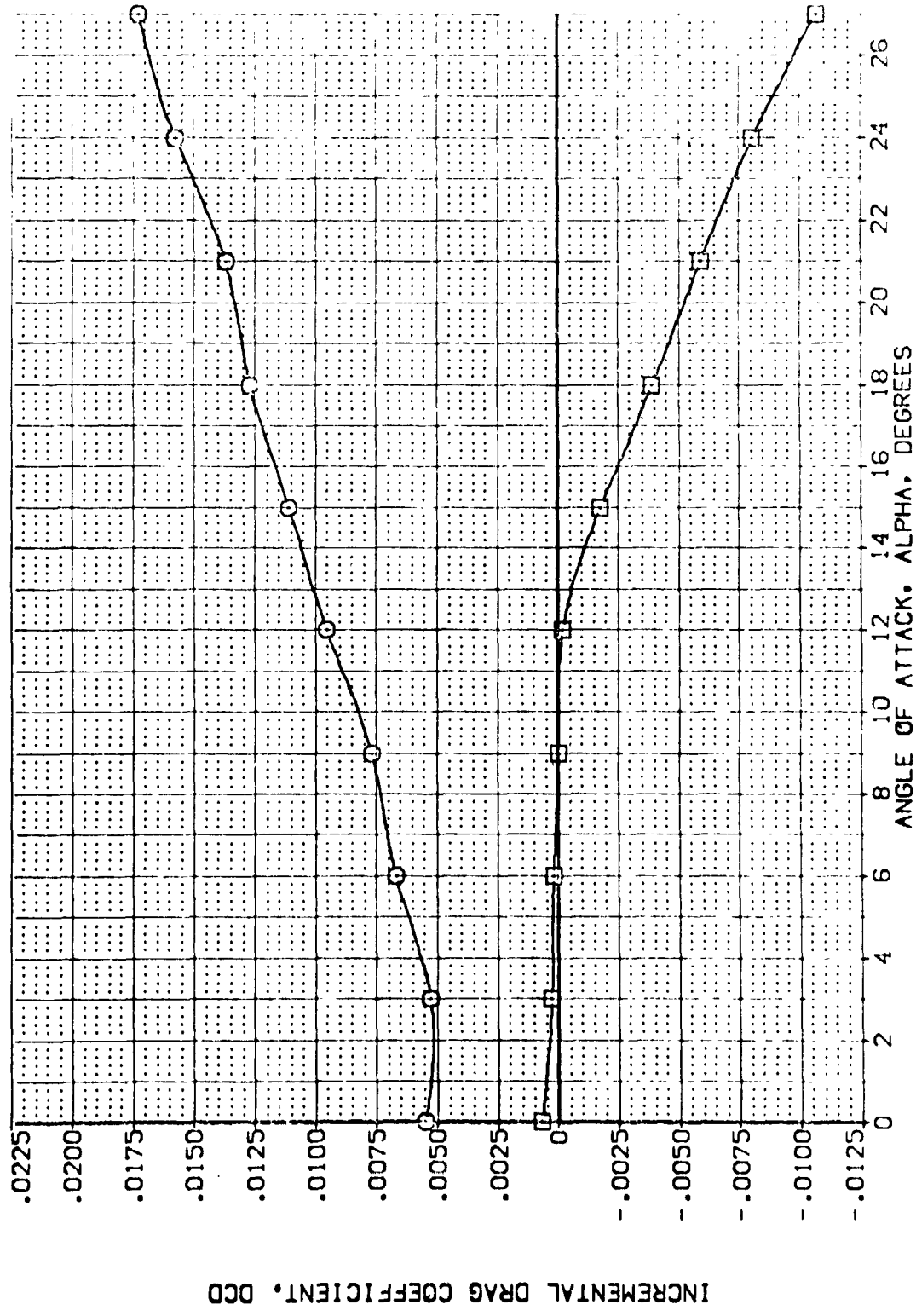
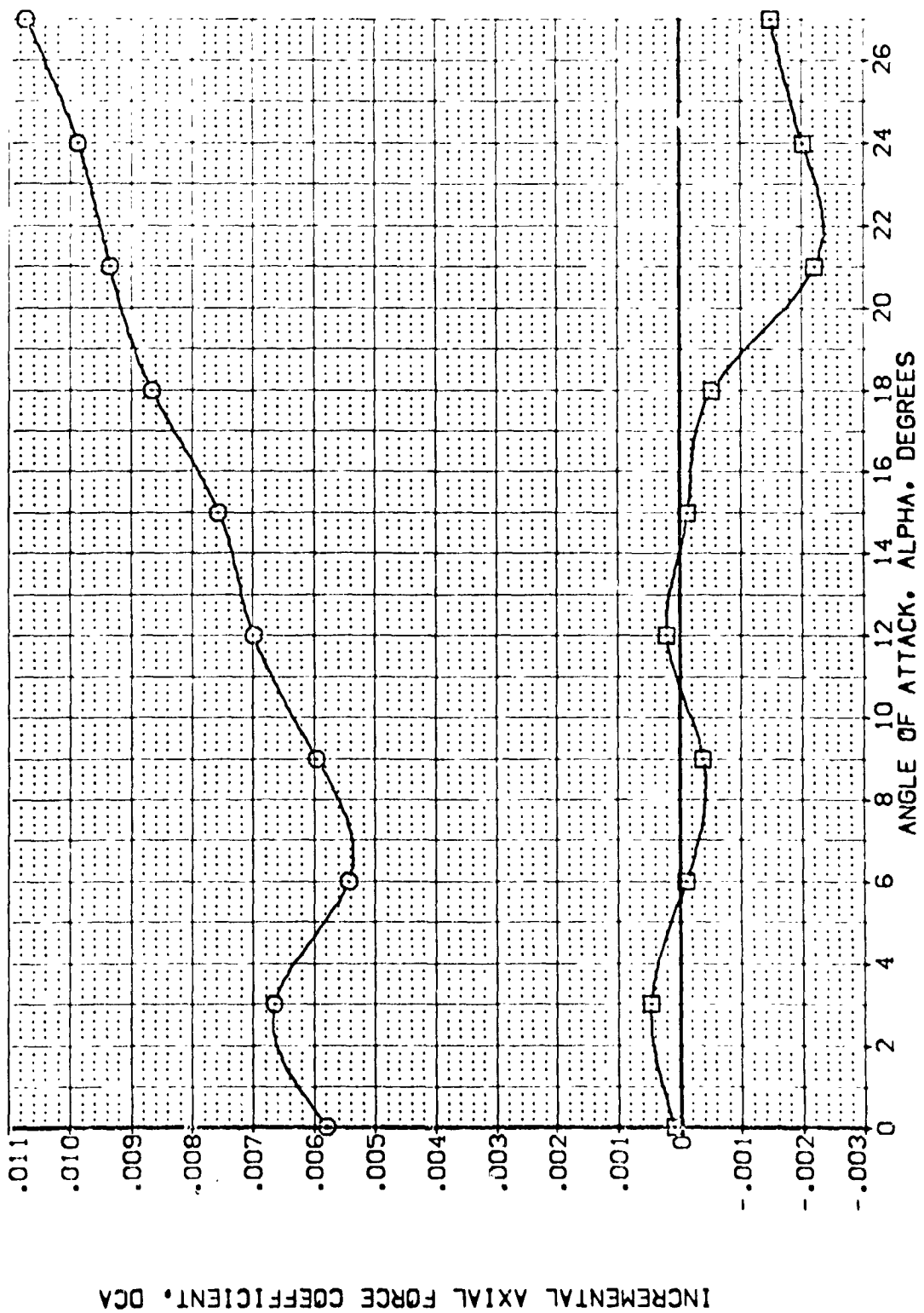


FIG. 8 BODYFLAP EFFECTS
 (B)MACH = 2.00



DATA SET SYMBOL: (VF010) (VF011)
 CONFIGURATION DESCRIPTION: ARC 97-747 BASE3 B C H F V1 V NCH, RVUL
 ARC 97-747 BASE3 B C H F V1 V NCH, RVUL
 ELEVATION: .000
 AIRLIFT: .000
 DBF: 16.300
 SPOBRK: 55.000
 REFERENCE INFORMATION: SREF: 2.4210 SQ.FT., LREF: 14.2740 IN., GREF: 20.1004 IN., XREF: 32.1010 IN., YREF: .0000 IN., ZREF: 11.2000 IN., SCALE: .0030

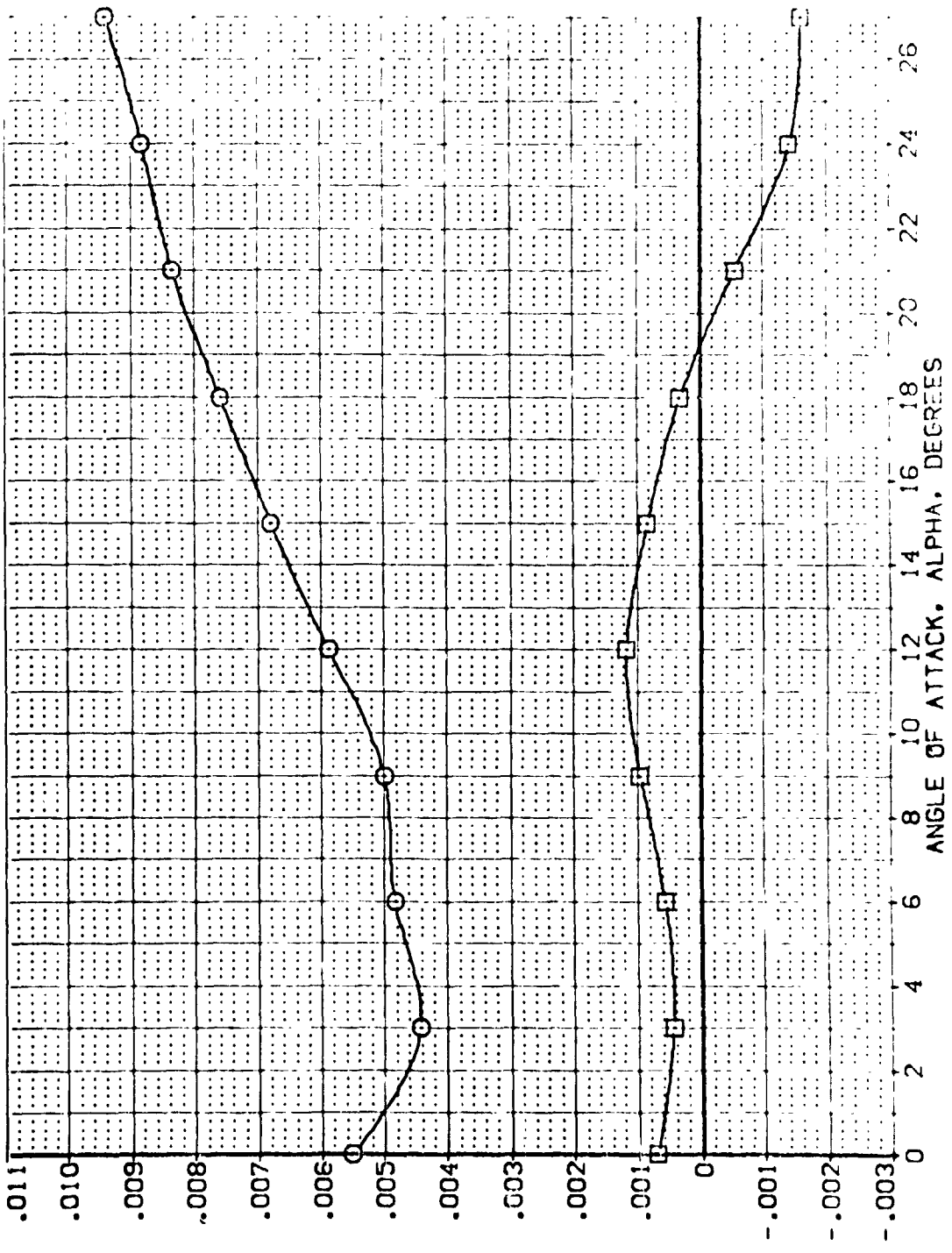


INCREMENTAL AXIAL FORCE COEFFICIENT, DCA

FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (VEK010) □
 CONFIGURATION DESCRIPTION: ARC 97-747 0A53B B C H F VI V NPH: RMVL
 REFERENCE INFORMATION: SREF 2.4210 SQ. FT. 2.4210
 LREF 14.2740 IN. 14.2740
 ESREF 32.1534 IN. 32.1534
 XPROP 0.0000 IN. 0.0000
 YPROP 0.0000 IN. 0.0000
 ZPROP 0.0000 IN. 0.0000
 SCALE 1:10000 SCALE 1:10000



INCREMENTAL AXIAL FORCE COEFFICIENT, OCA

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[VEK010] ARC 97-747 DA533 B C M F V1 V NOM. RVVL SREF 2.4210 52. FT.

[VEK011] ARC 97-747 DA533 B C M F V1 V NOM. RVVL LREF 14.2740 14. IN.

[VEK012] ARC 97-747 DA533 B C M F V1 V NOM. RVVL XREF 20.1100 20. IN.

[VEK013] ARC 97-747 DA533 B C M F V1 V NOM. RVVL YREF 22.0010 22. IN.

[VEK014] ARC 97-747 DA533 B C M F V1 V NOM. RVVL ZREF 11.0000 11. IN.

[VEK015] ARC 97-747 DA533 B C M F V1 V NOM. RVVL SCALE 11.0000 SCALE

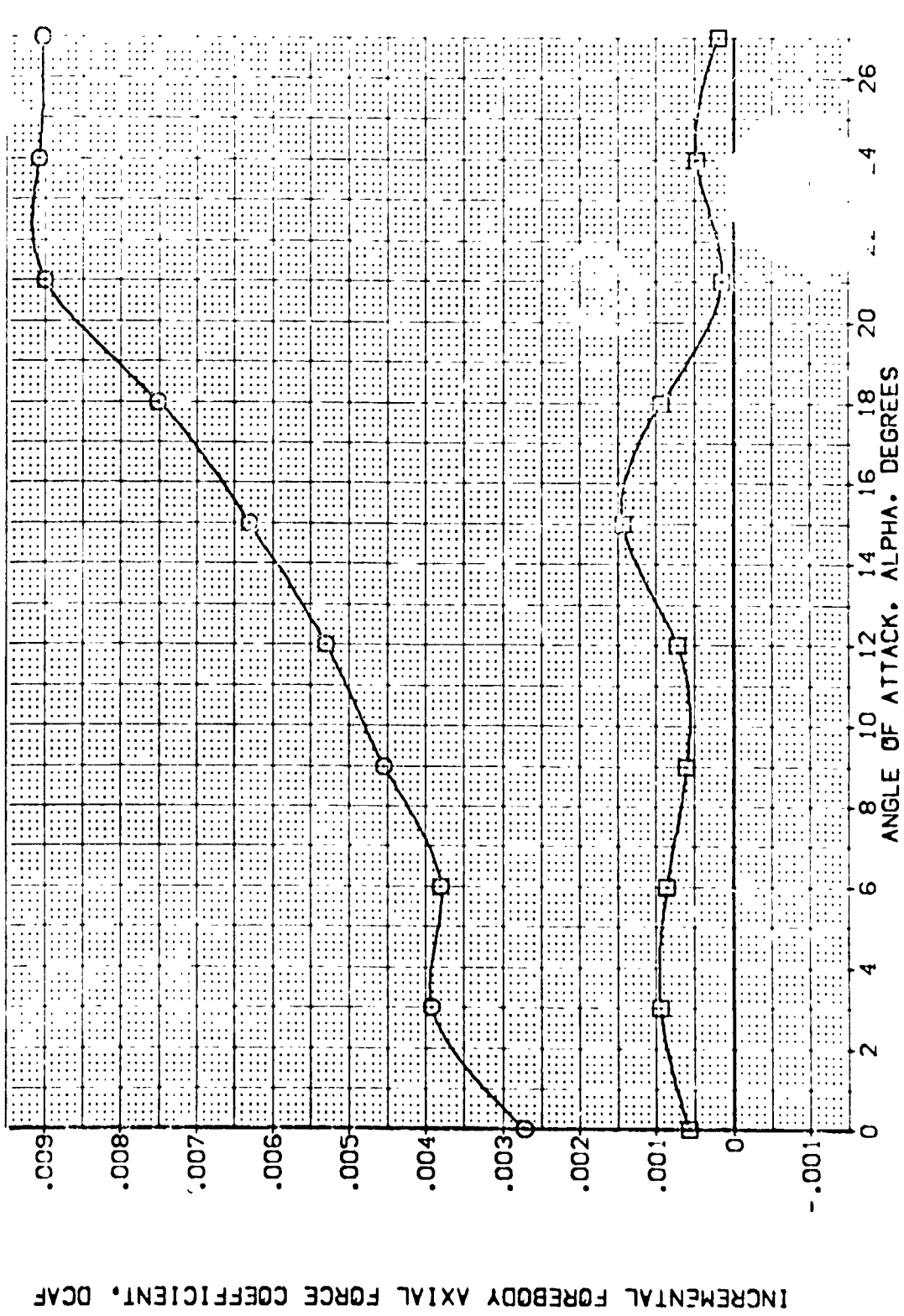
ELEVON ALLRON DBF SPOBRK

.000 .000 .000 55.000

.000 .000 .000 55.000

.000 .000 .000 55.000

.000 .000 .000 55.000



INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

FIG. 8 BODYFLAP EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (VFK010) (VFK011)

CONFIGURATION DESCRIPTION:
 ARC 97-747 0A538 B C H F VI V NDH: RNAL
 ARC 97-747 0A538 B C H F VI V NDH: RNAL

ELEVON: .000 .000
 AIRLON: .000 .000
 DBF: 16.300 -11.700
 SPOBRK: 55.000 55.000

REFERENCE INFORMATION:
 SREF: 2.4210
 LREF: 14.2240
 GREF: 20.0001
 XREF: 22.0009
 YREF: .0000
 ZREF: 11.0000
 SCALE: .0000

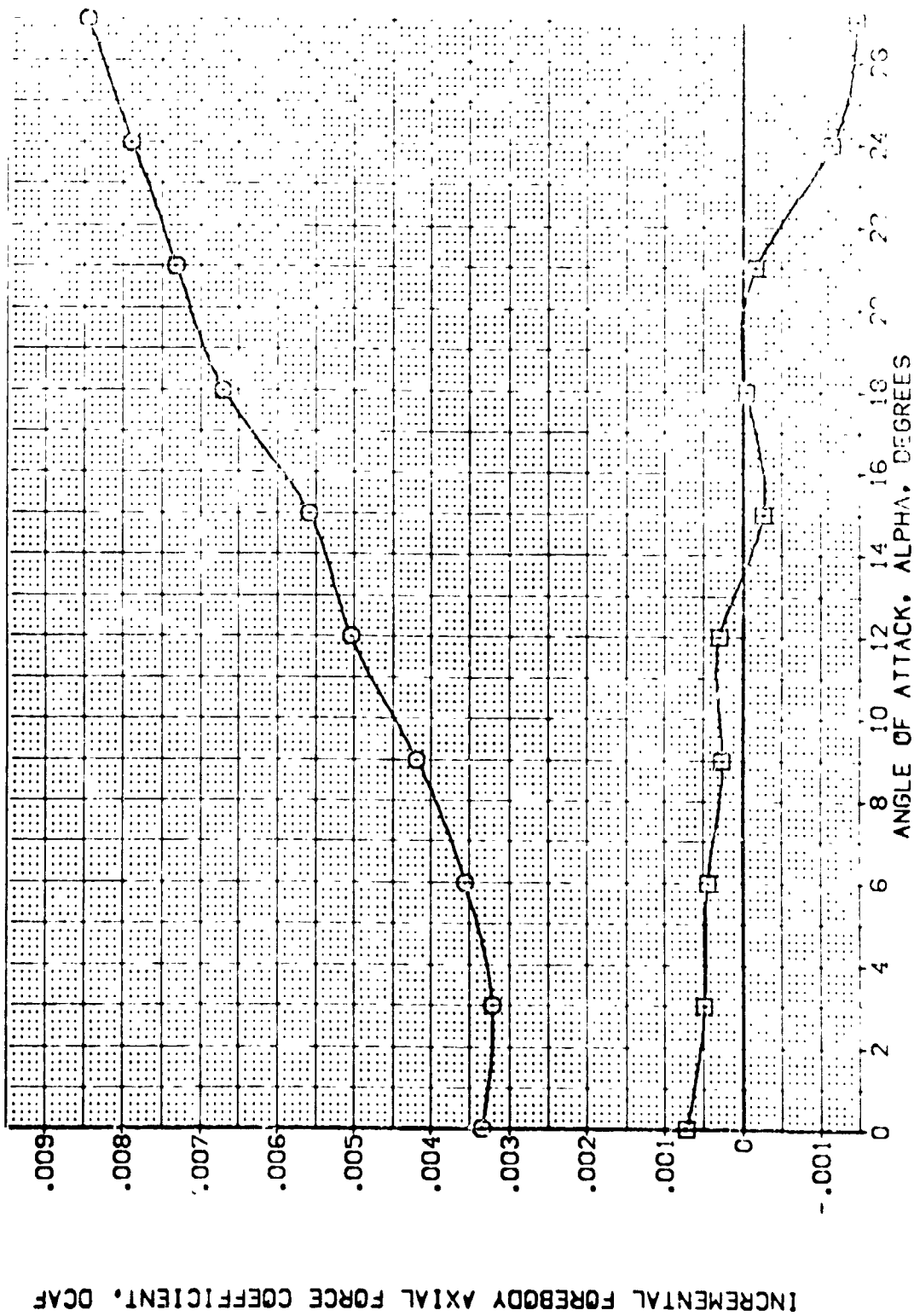


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEK010) ARC 97-747 B A S 32 B C M F V I V N54, RNAL
 (VEK011) ARC 97-747 B A S 32 B C M F V I V N54, RNAL

ELEV AILTRON DSF SPOSRK
 .000 .000 16.300 55.000
 .000 .000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 50.FT.
 LREF 14.2180 IN.
 BREF 20.1001 IN.
 XREF 32.0010 IN.
 YREF 11.0000 IN.
 ZREF 11.0000 IN.
 SCALE .0030 SCALE

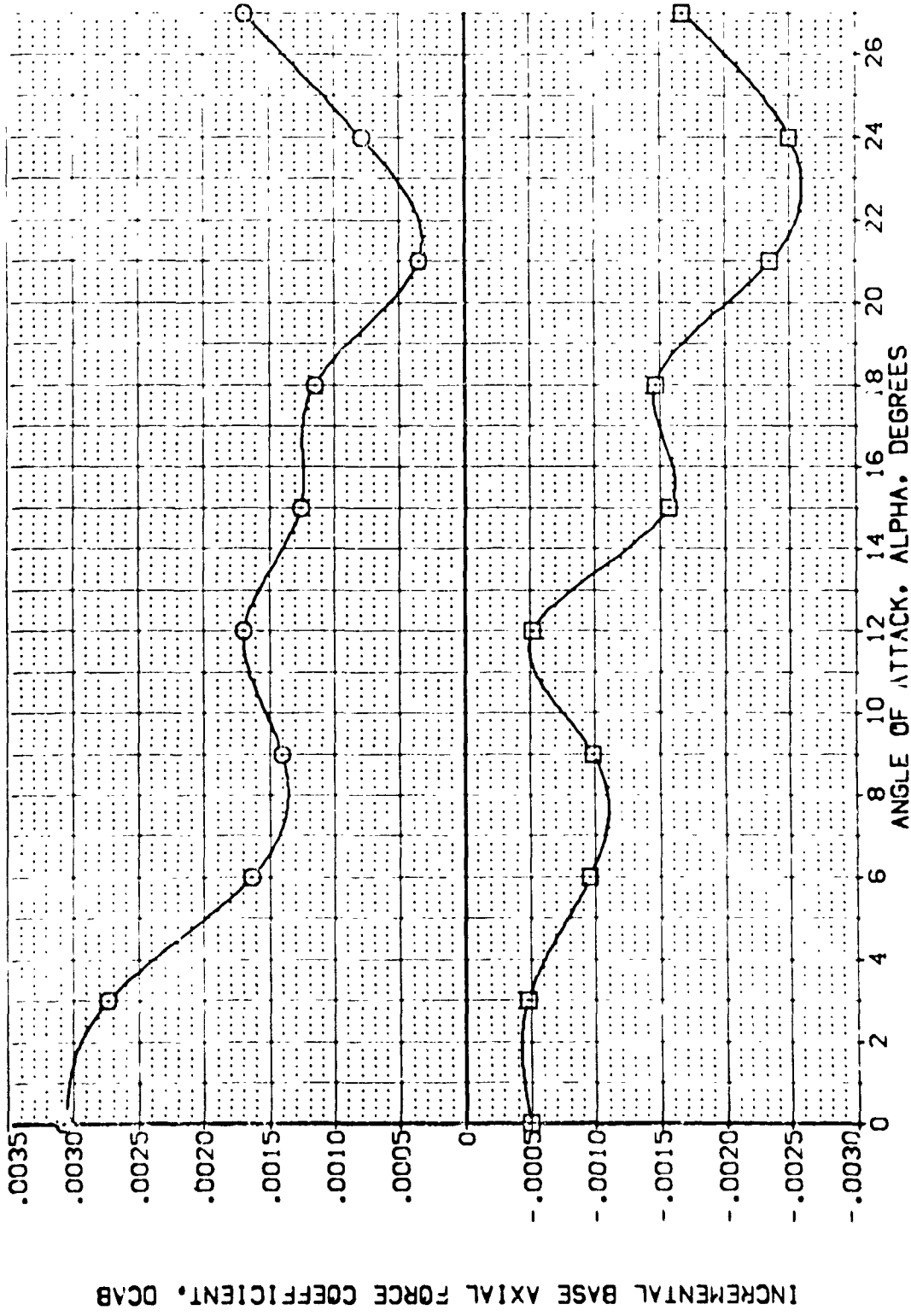


FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [VE013] 9 ARC 97-747 BA538 B C M F V1 V NOM: RV/L
 [VE011] ARC 97-747 BA538 B C M F V1 V NOM: RV/L

ELEVATION AILTRON DEF SPOBRK

.000 .000 .000 16.300 55.000
 .000 .000 .000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2270
 BREF 23.1001
 VMREF 32.1010
 VMREF 11.2000
 VMREF 11.2000
 VMREF 11.2000
 SCALE 10.0000

INCREMENTAL BASE AXIAL FORCE COEFFICIENT, DCAB

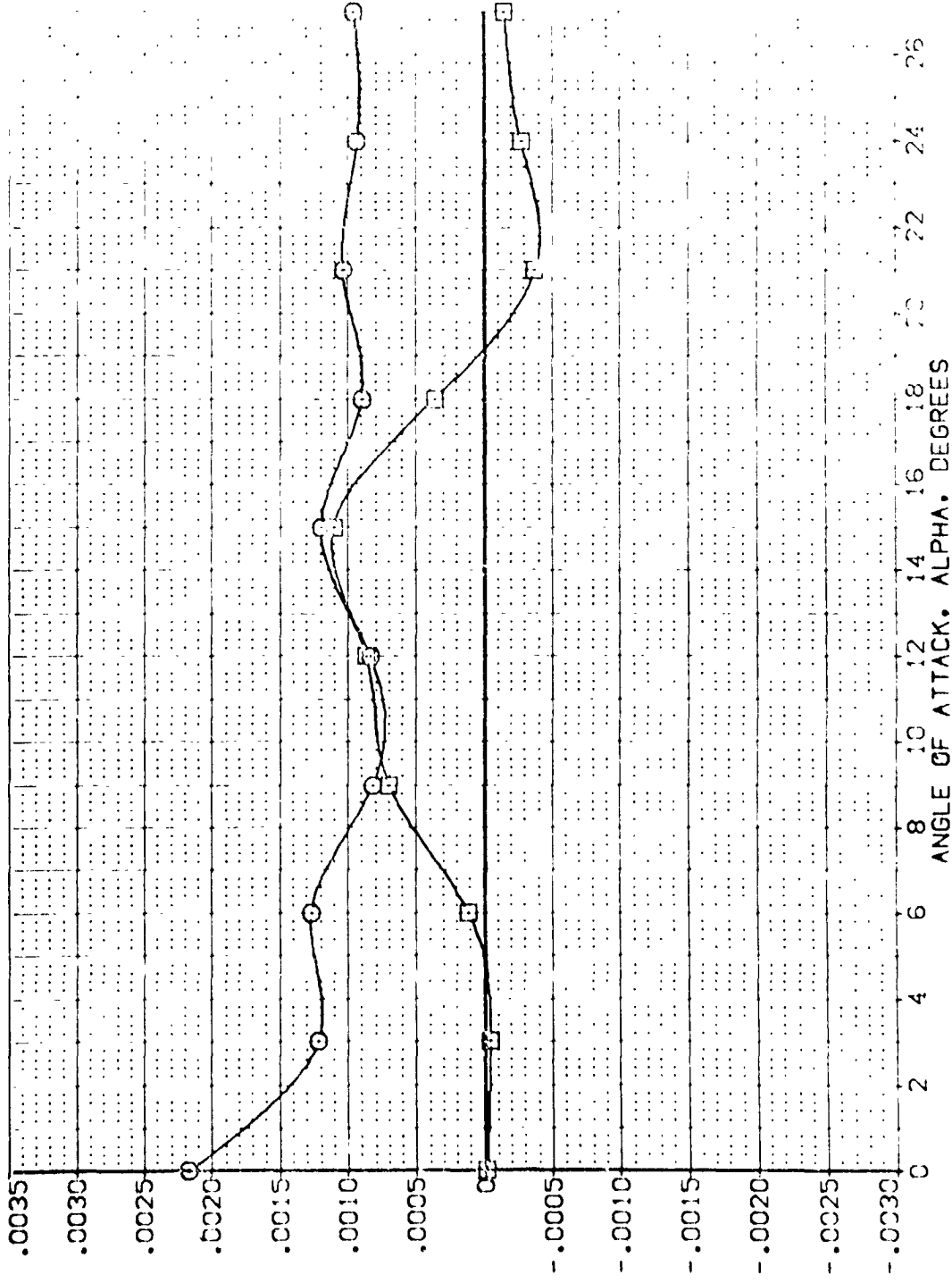
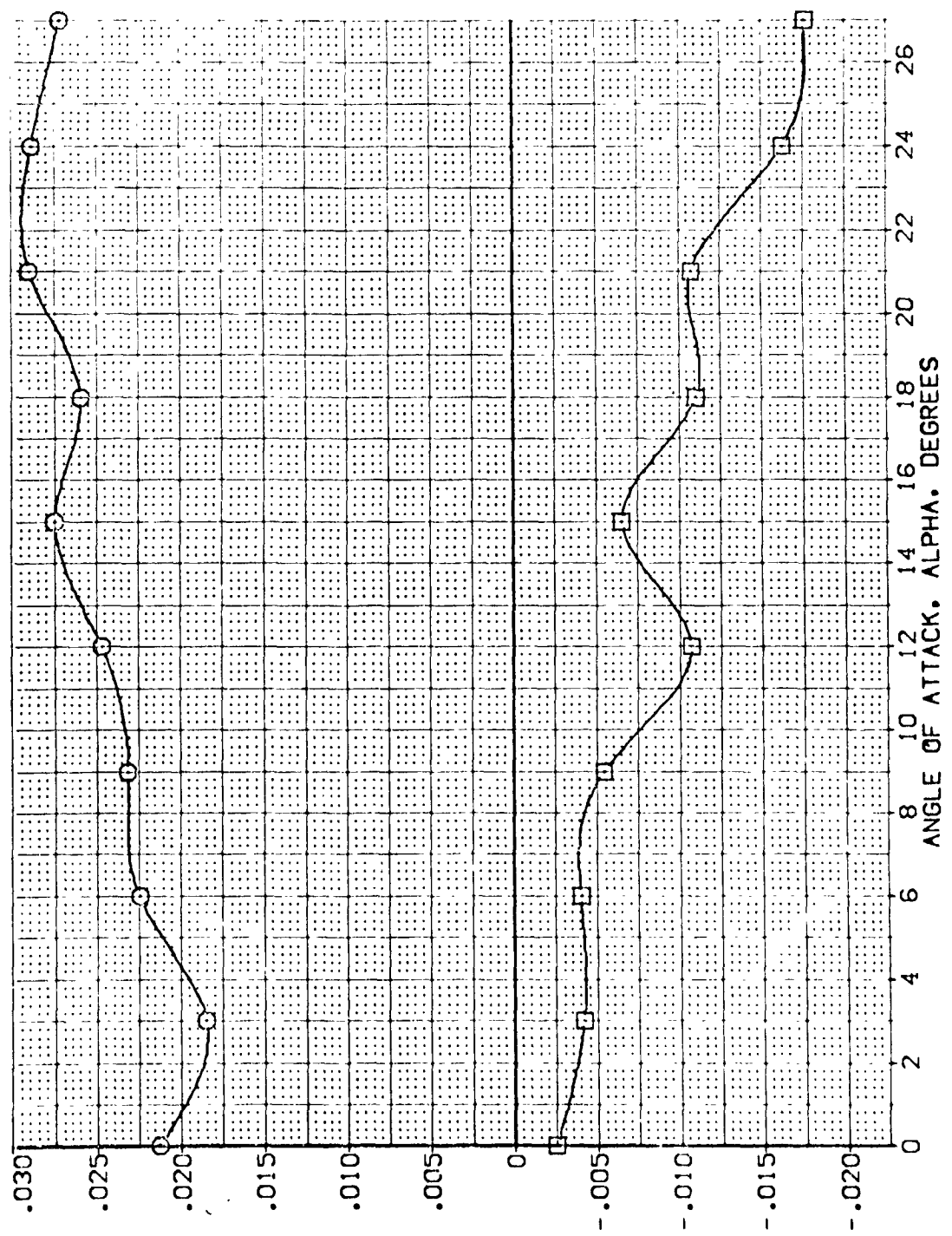


FIG. 8 BODYFLAP EFFECTS

(8)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	DEF	SPOBRK	REFERENCE INFORMATION
(V1P010)	ARC 97-747 CAS33 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
(V1P011)	ARC 97-747 CAS33 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
						EREF 28.1000 IN.
						XV3P 32.3010 IN.
						VMCP .0000 IN.
						ZMCP .0000 IN.
						SCALE 11.0000 IN.
						SCALE .0000



INCREMENTAL NORMAL FORCE COEFFICIENT, DCN

FIG. 8 BODYFLAP EFFECTS

DATA SET SYMBOL: [VEK010] [VEK011] □
 CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V1 V NOM: RNVL
 ARC 97-747 OAS38 B C M F V1 V NOM: RNVL
 ELEVATION: .000 .000
 AIRLIFT: .000 .000
 DEF: 16.300 -11.700
 SPOBRK: 55.000 55.000
 REFERENCE INFORMATION:
 SREF: 2.4210 SC.FT.
 LREF: 14.2440 IN.
 BRCF: 28.1004 IN.
 XMRP: 32.2010 IN.
 YMRP: .0000 IN.
 ZMRP: 11.2500 IN.
 SCALE: .0000 SCALE

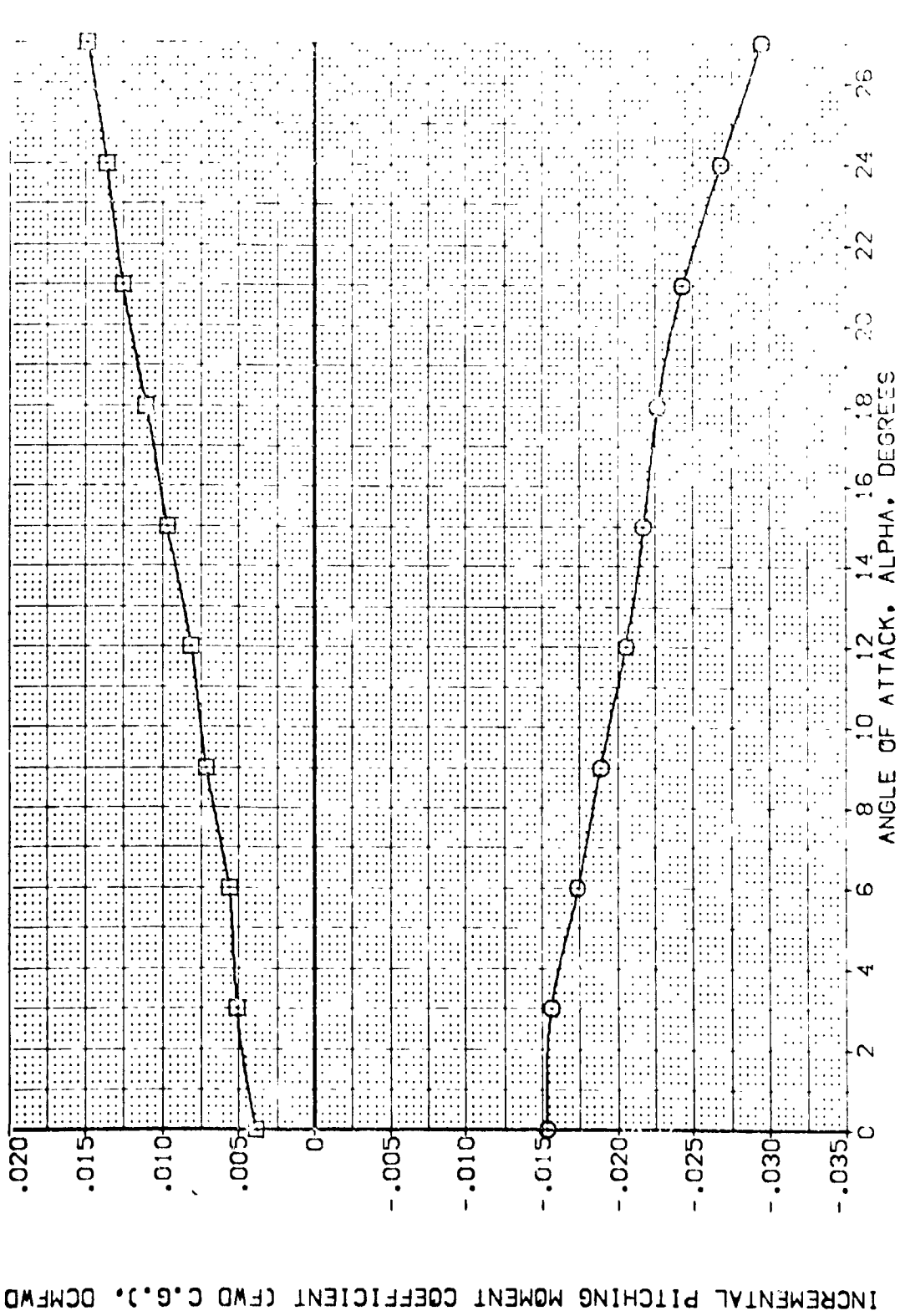


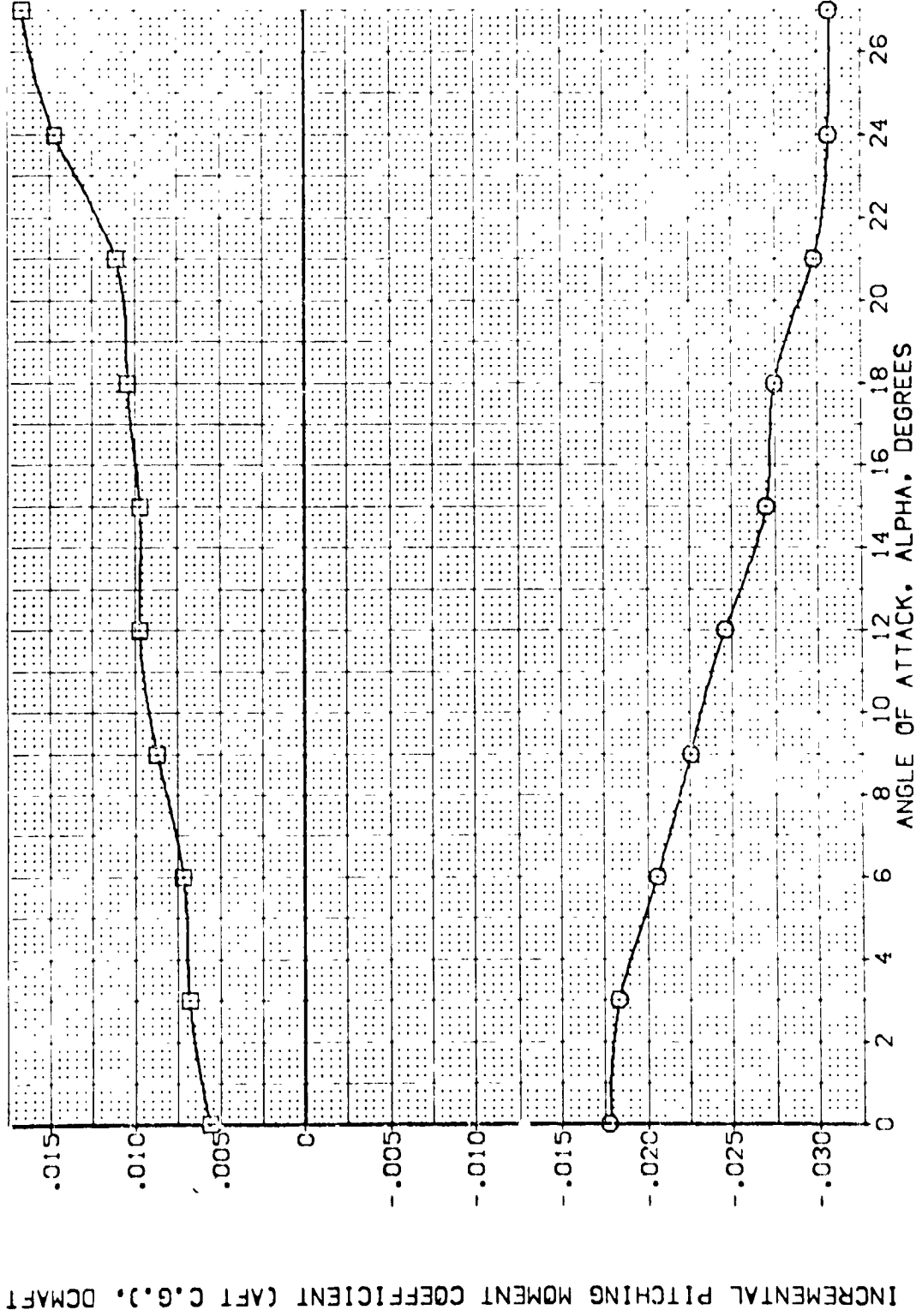
FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEK010) APC 97-747 B A S 39 B C M F V1 V NOM. RW/L
 (VEK011) APC 97-747 B A S 39 B C M F V1 V NOM. RW/L

ELEVON AILRON DBF SPOBRK
 .000 .000 16.300 55.000
 .000 .000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 50. FT.
 LREF 14.2440 IN.
 BREF 29.1004 IN.
 XREF 32.5010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300 SCALE



INCREMENTAL PITCHING MOMENT COEFFICIENT (Cp C.G.), DCMAF1

FIG. 8 BODYFLAP EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL (VEK010) (VEK011) □

CONFIGURATION DESCRIPTION
 ARC 97-747 BA538 B C M F V1 V
 ARC 97-747 BA538 B C M F V1 V

NON. RV/L
 NON. RV/L

ELEVON .000
 AILRON .000
 DEF 16.300
 SPOBRK 55.000
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XMAP 30
 YMAP .0000
 ZMAP .0000
 SCALE 11.0000

REFERENCE INFORMATION
 SQ. FT.

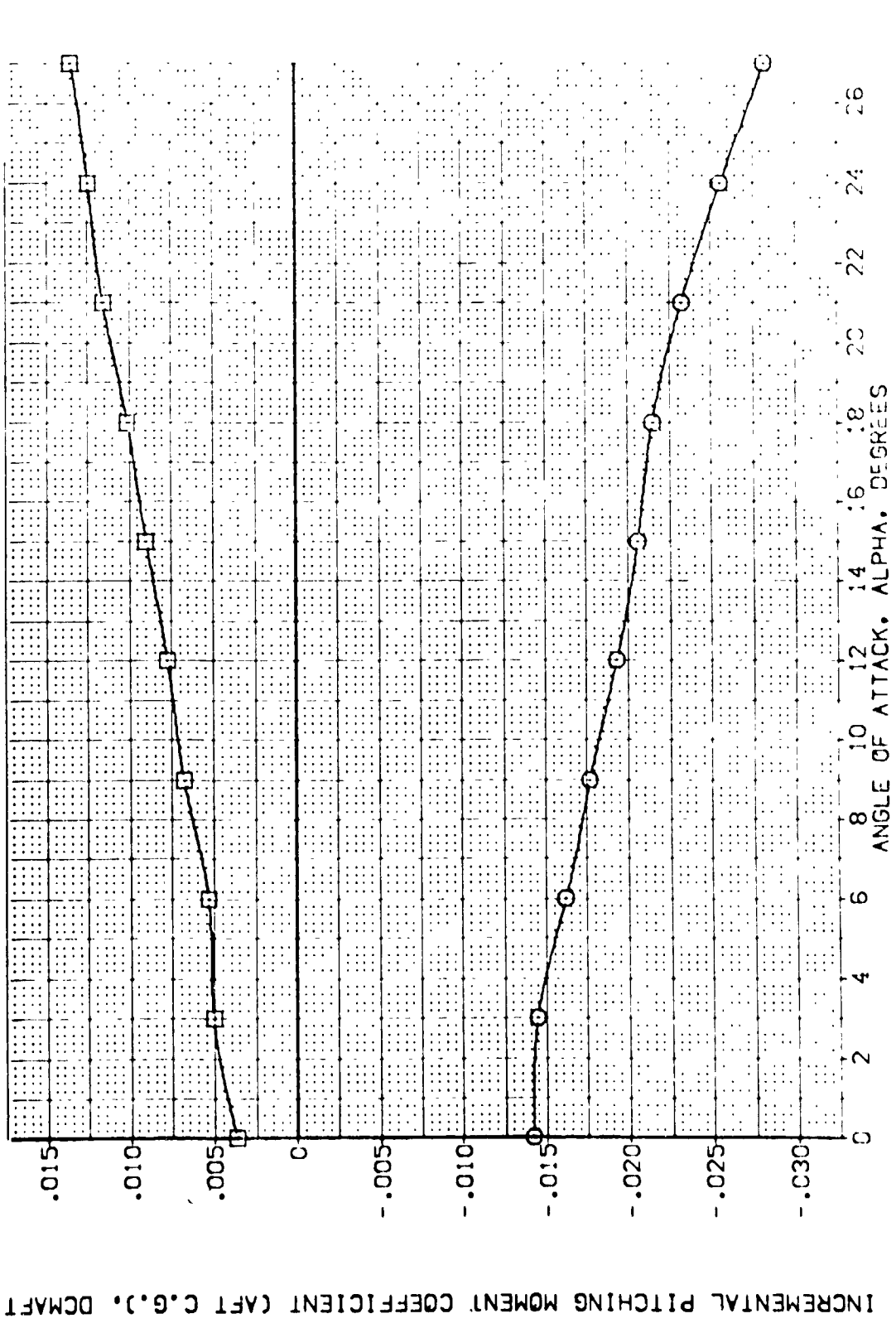
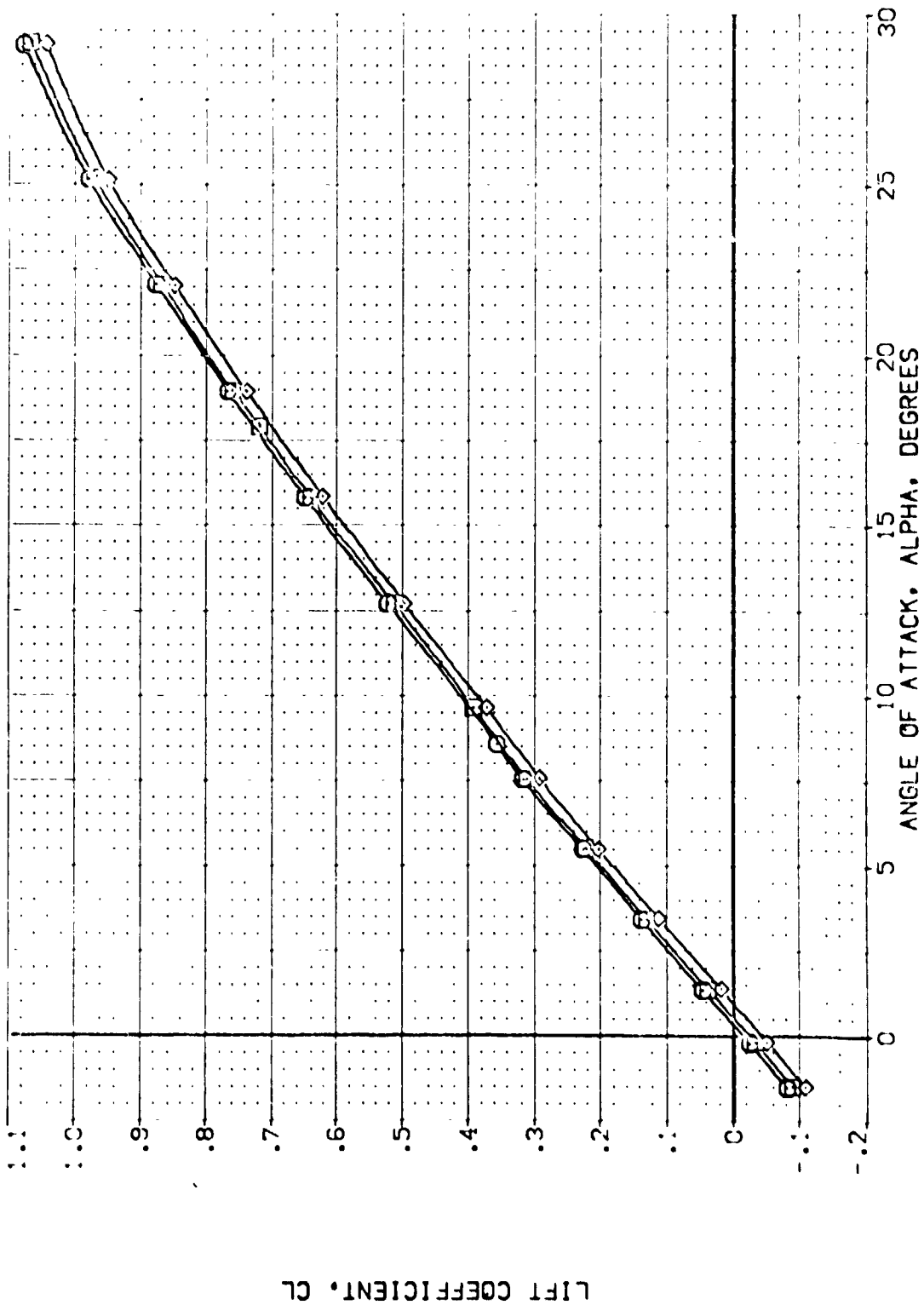


FIG. 8 BODYFLAP EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPODBK	REFERENCE INFORMATION
(TEMP04)	ARC 97-747 2A538 B C M F V: V NOM. RWL	.000	.000	-11.700	25.000	2.4210 SQ.FT.
(TEMP01)	ARC 97-747 2A538 B C M F V: V NOM. RWL	.000	.000	-11.700	55.000	14.2440
(TEMP03)	ARC 97-747 2A538 B C M F V: V NOM. RWL	.000	.000	-11.700	65.000	20.1061
						32.2210
						11.2500
						SCALE



LIFT COEFFICIENT, CL

FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(TEPO24) ARC 97-747 BA538 B C H F VI V N01: RVUL 2.4210 SQ. FT.

(TEPO11) ARC 97-747 BA538 B C H F VI V N01: RVUL 14.2440 IN.

(TEPO38) ARC 97-747 BA538 B C H F VI V N01: RVUL 23.1004 IN.

ELEVON .000 AILTRON .000 BOFLAP -11.700 SPOBRK 25.000

ELEVON .000 AILTRON .000 BOFLAP -11.700 SPOBRK 55.000

ELEVON .000 AILTRON .000 BOFLAP -11.700 SPOBRK 85.000

XMRP .0000 YMRP .0000 ZMRP .0000 SCALE 11.7000

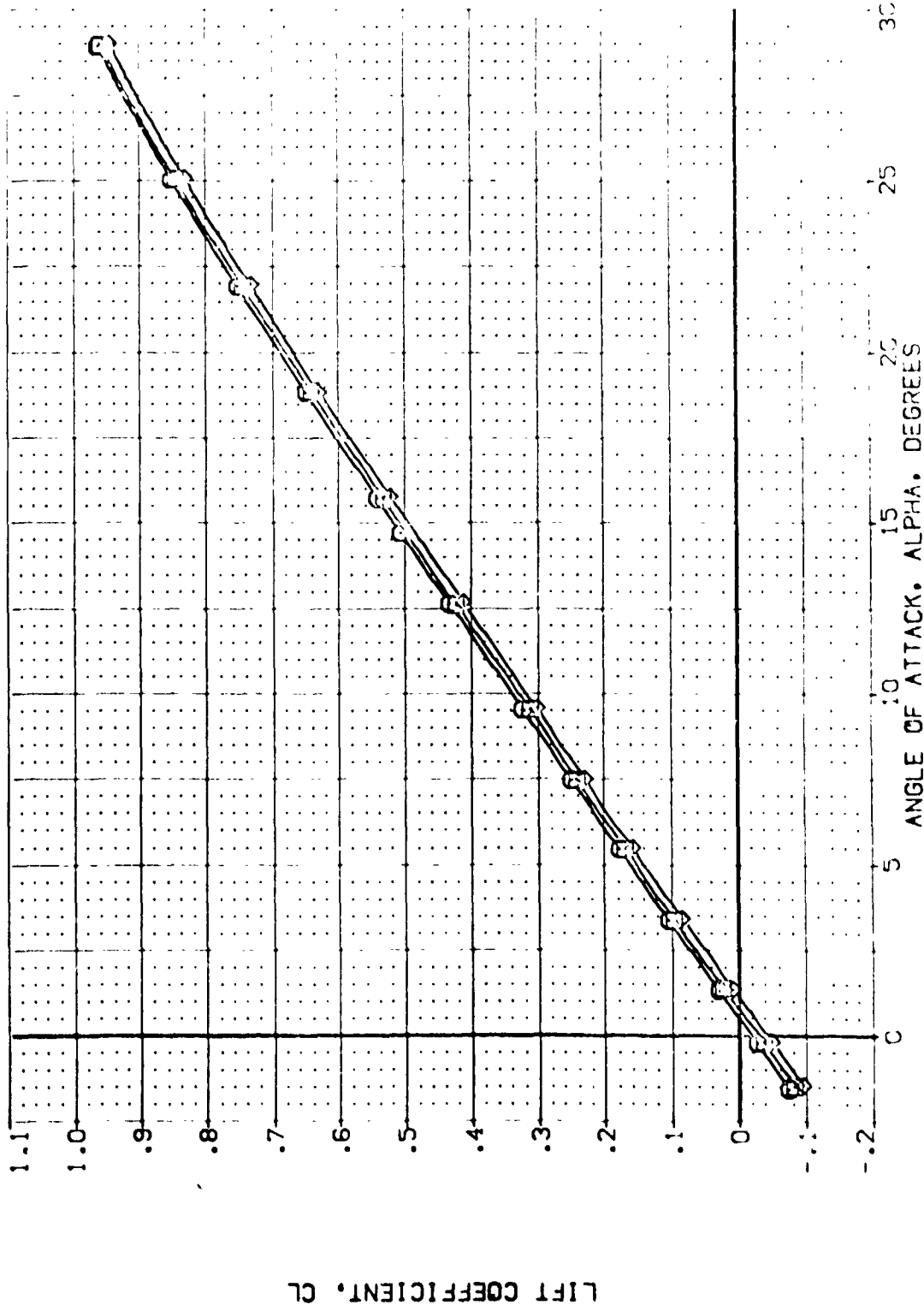


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	C-FIGURATION DESCRIPTION	ELEVON	AILIRON	BOFLAP	SPODBK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 CAS20 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ. FT.
(TEK011)	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK038)	ARC 97-747 CAS33 B C M F VI V	.000	.000	-11.700	85.000	BREF 23.1000 IN.
						XMCP 32.5000 IN.
						YMCP 0.0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

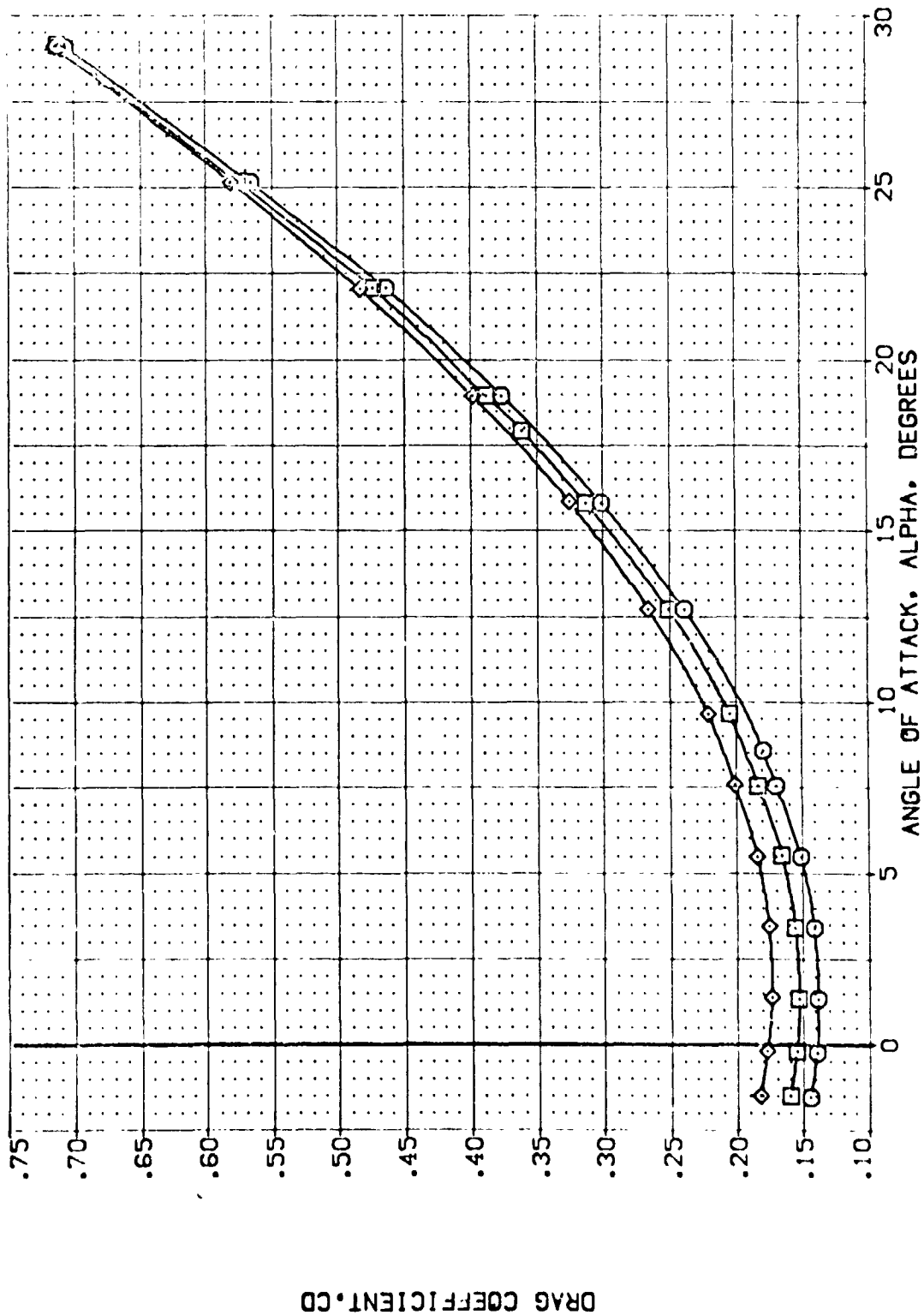


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	BOFLAP	SPEEDBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEK011)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	55.000	UREF 14.2140
(TEK038)	ARC 97-747 DAS38 B C H F VI V	.000	.000	-11.700	85.000	UREF 28.1004
						YMRP 32.5010
						ZMRP .0000
						SCALE 11.2500
						SCALE .0500

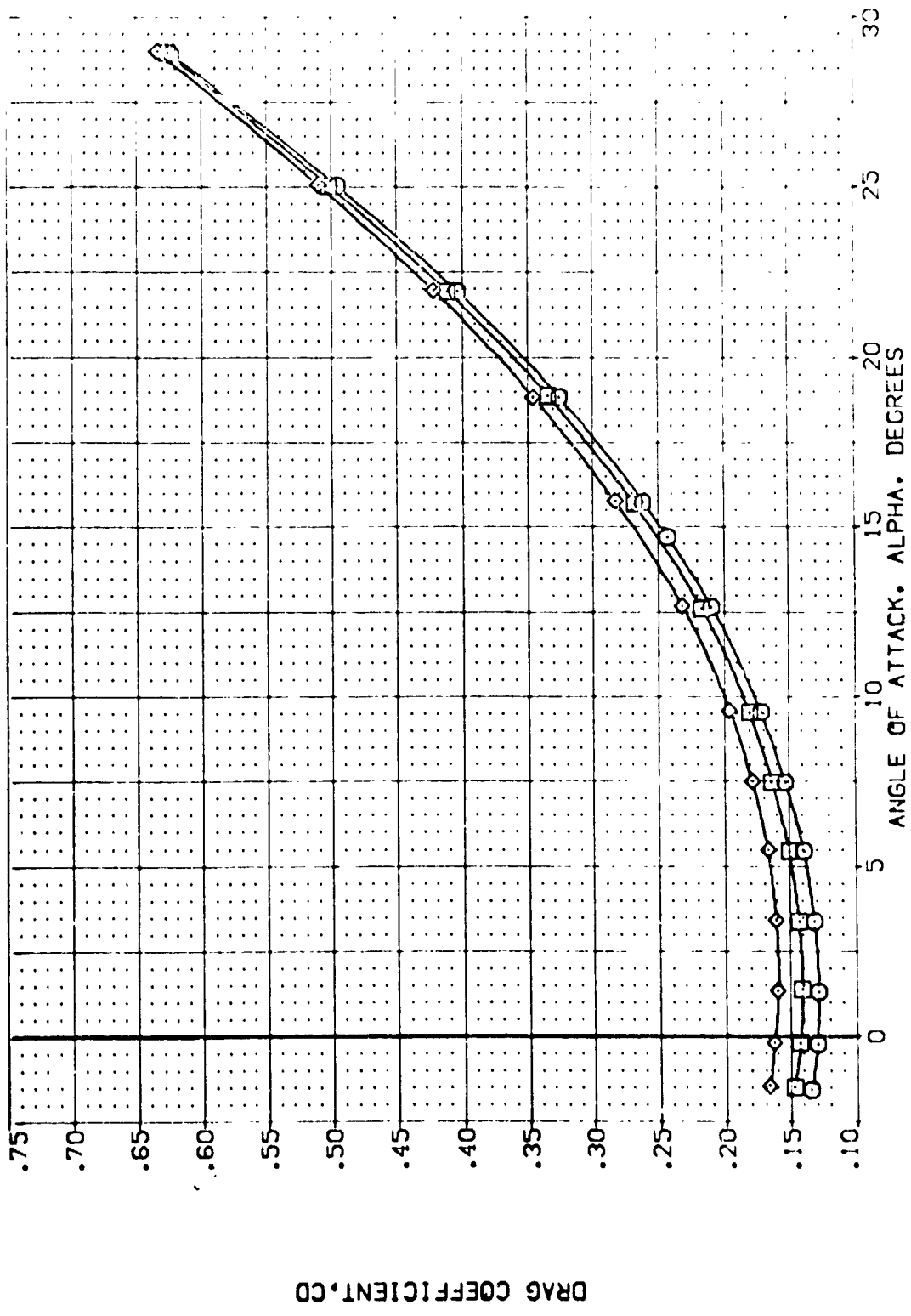


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



FOREBODY DRAG COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEP024)	ARC 97-747 D4539 B C M F V1 V	.000	.000	-11.700	75.000	SREF 2.4210 SQ. FT.
(TEP011)	ARC 97-747 D4538 B C M F V1 V	.000	.000	-11.700	55.000	LREF 14.7410 IN.
(TEP038)	ARC 97-747 D4538 B C M F V1 V	.000	.000	-11.700	65.000	BREF 28.1004 IN.
						XMRP 32.2010 IN.
						YMRP 10.0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

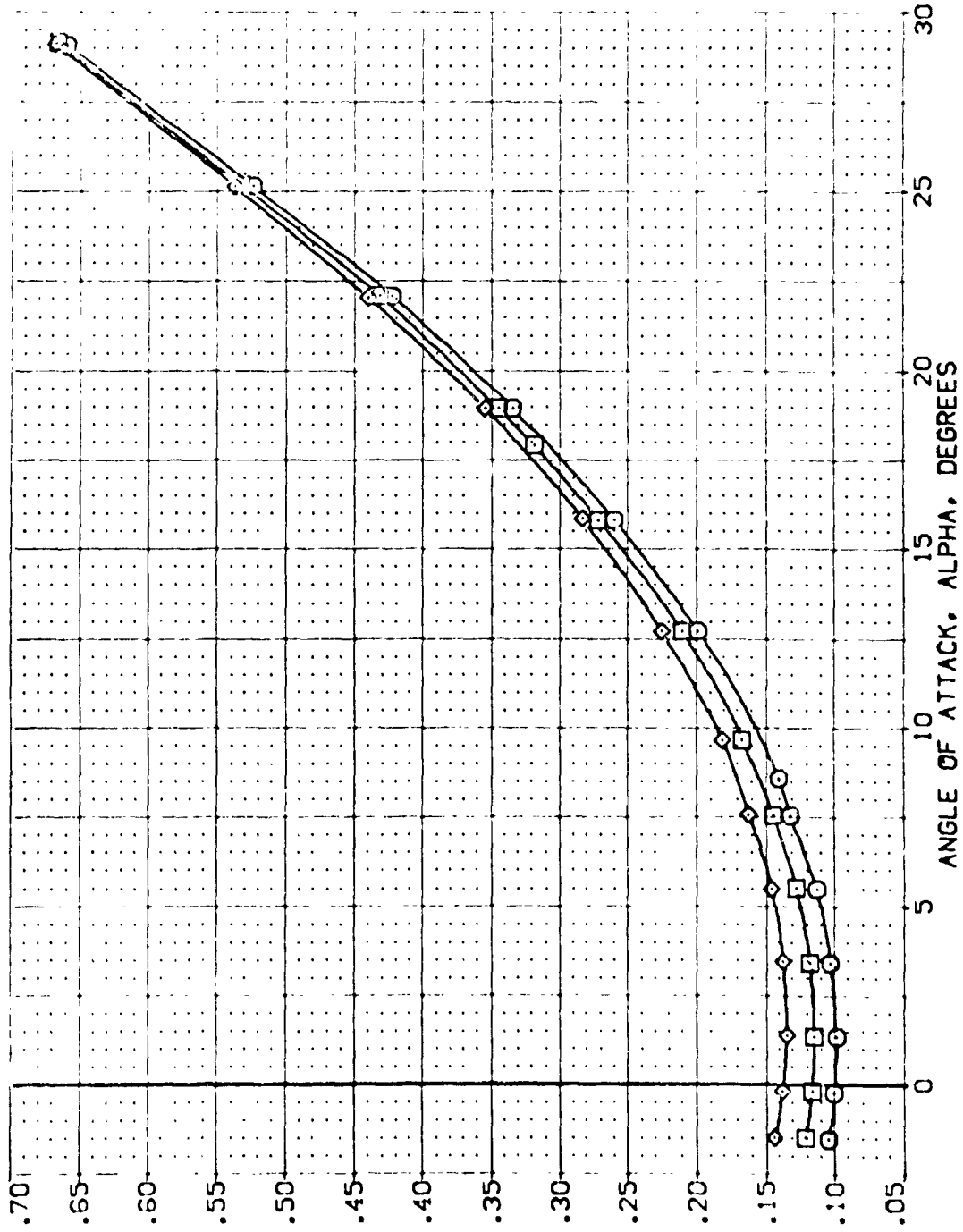


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210
(TEK011)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440
(TEK038)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	85.000	BREF 20.1004
						XMP 32.0010
						YMRP 0.0000
						ZMRP 11.2000
						SCALE .0300
						SC.FT.
						IN.
						IN.
						IN.
						IN.

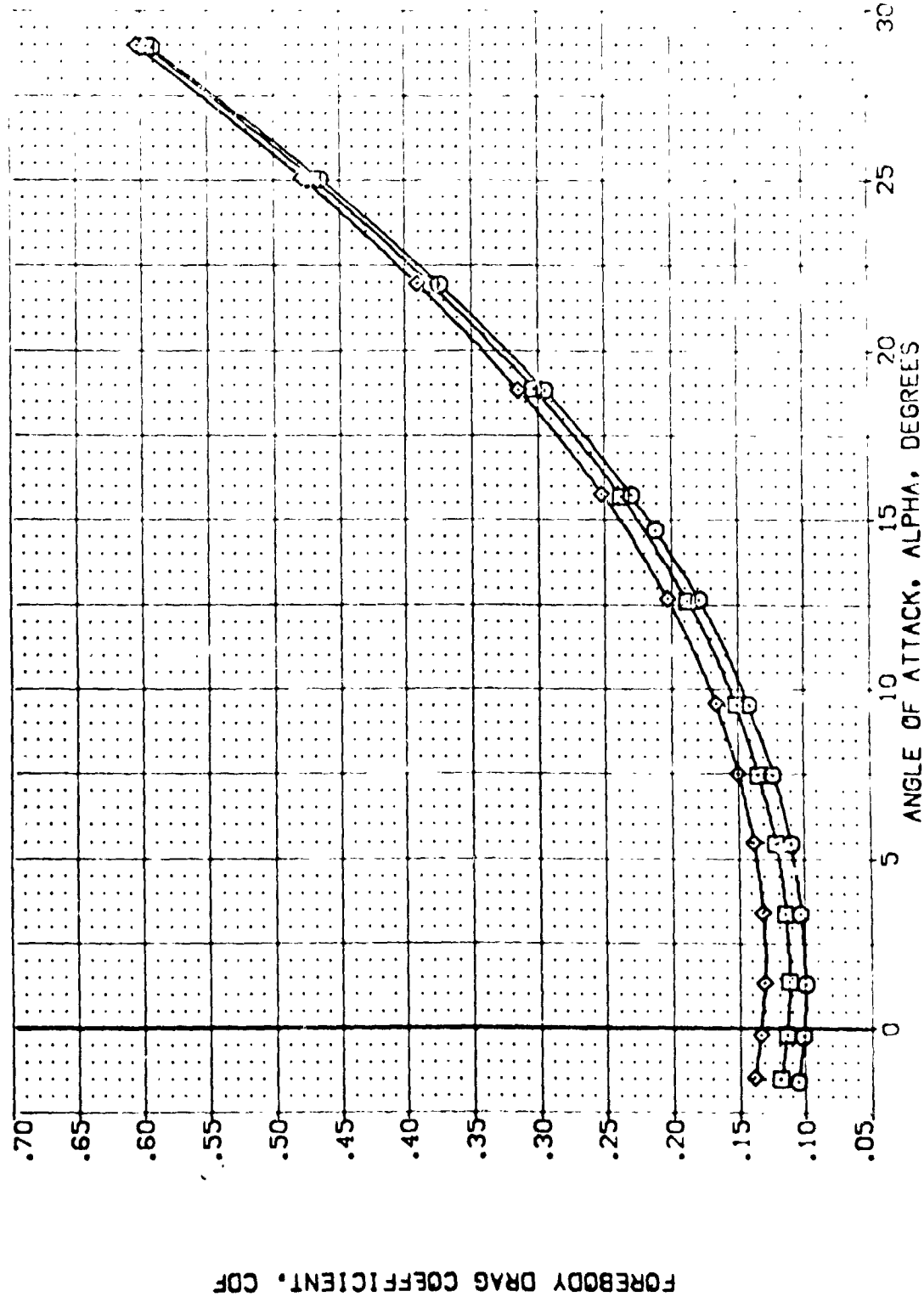


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL: (TENG24), (TENG11), (TENG00)
 CONFIGURATION: DESCRIPTION: ARC 97-747 D4533 B C M F V I V, ARC 97-747 D4533 B C M F V I V, ARC 97-747 D4533 B C M F V I V
 NOM: RNVL, NOM: RNVL, NOM: RNVL
 ELEVON: .000, .000, .000
 AIRLON: .000, .000, .000
 EDFLAP: -11.700, -11.700, -11.700
 SPOBRK: 29.000, 55.000, 86.000
 REFERENCE INFORMATION: 2.4210 SQ.FT., 14.2440 IN., 29.1004 IN., 32.3010 IN., 11.2600 IN., .0300 SCALE

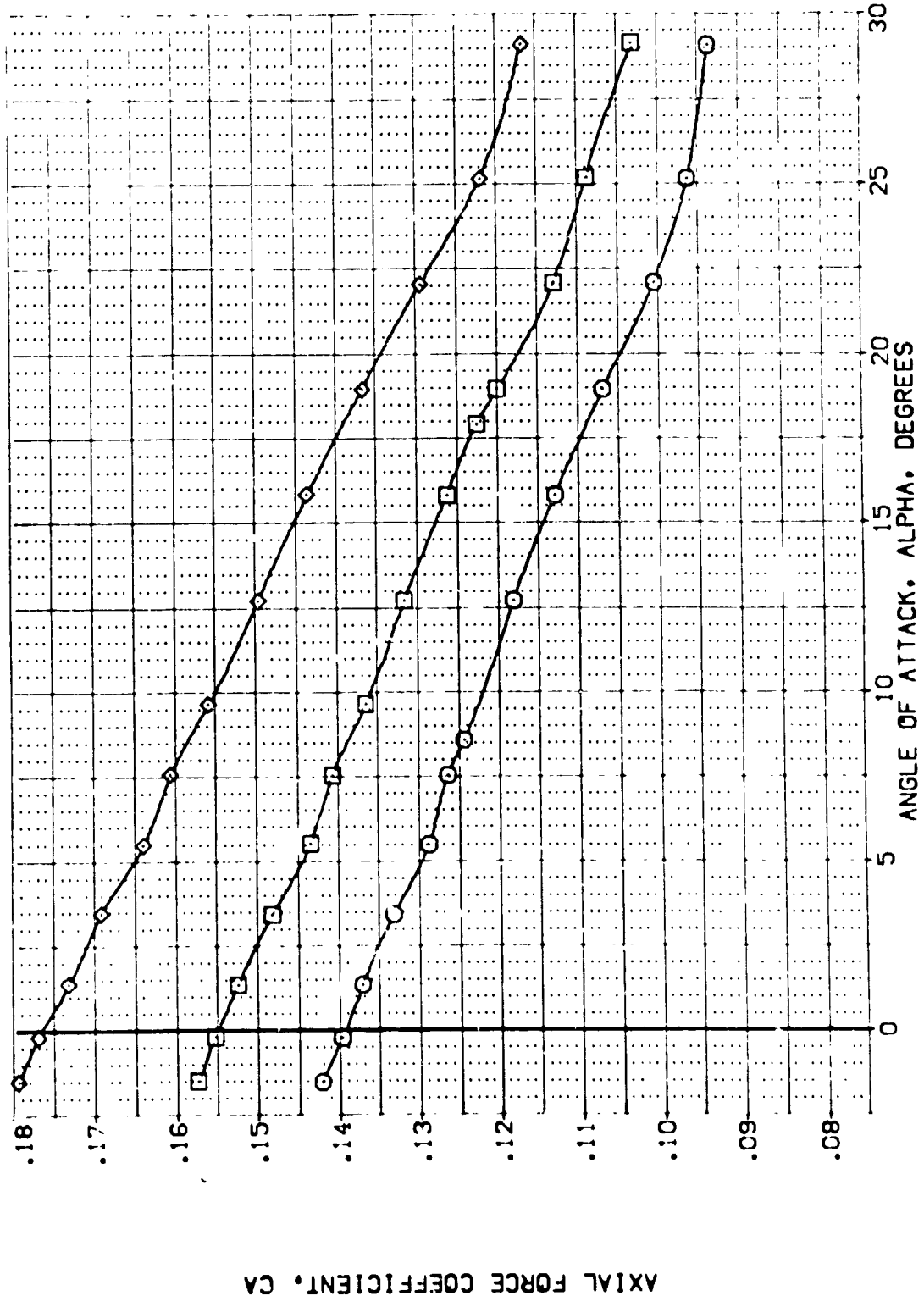


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

AXIAL FORCE COEFFICIENT, CA

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(TEK024) ARC 97-747 D/AS38 B C M F V1 V NOM. R/V/L

(TEK011) ARC 97-747 D/AS38 B C M F V1 V NOM. R/V/L

(TEK038) ARC 97-747 D/AS38 B C M F V1 V NOM. R/V/L

ELEVATION AIRLIFT BDF LAP SPEEDYK

.000 .000 .000 25.000

.000 .000 .000 55.000

.000 .000 .000 85.000

REFERENCE INFORMATION

SREF 2.4210 SQ. FT.

LREF 14.7440 IN.

L-REF 28.1004 IN.

XMRP 32.5010 IN.

YMRP .0500 IN.

ZMRP 11.2500 IN.

SCALE .00000

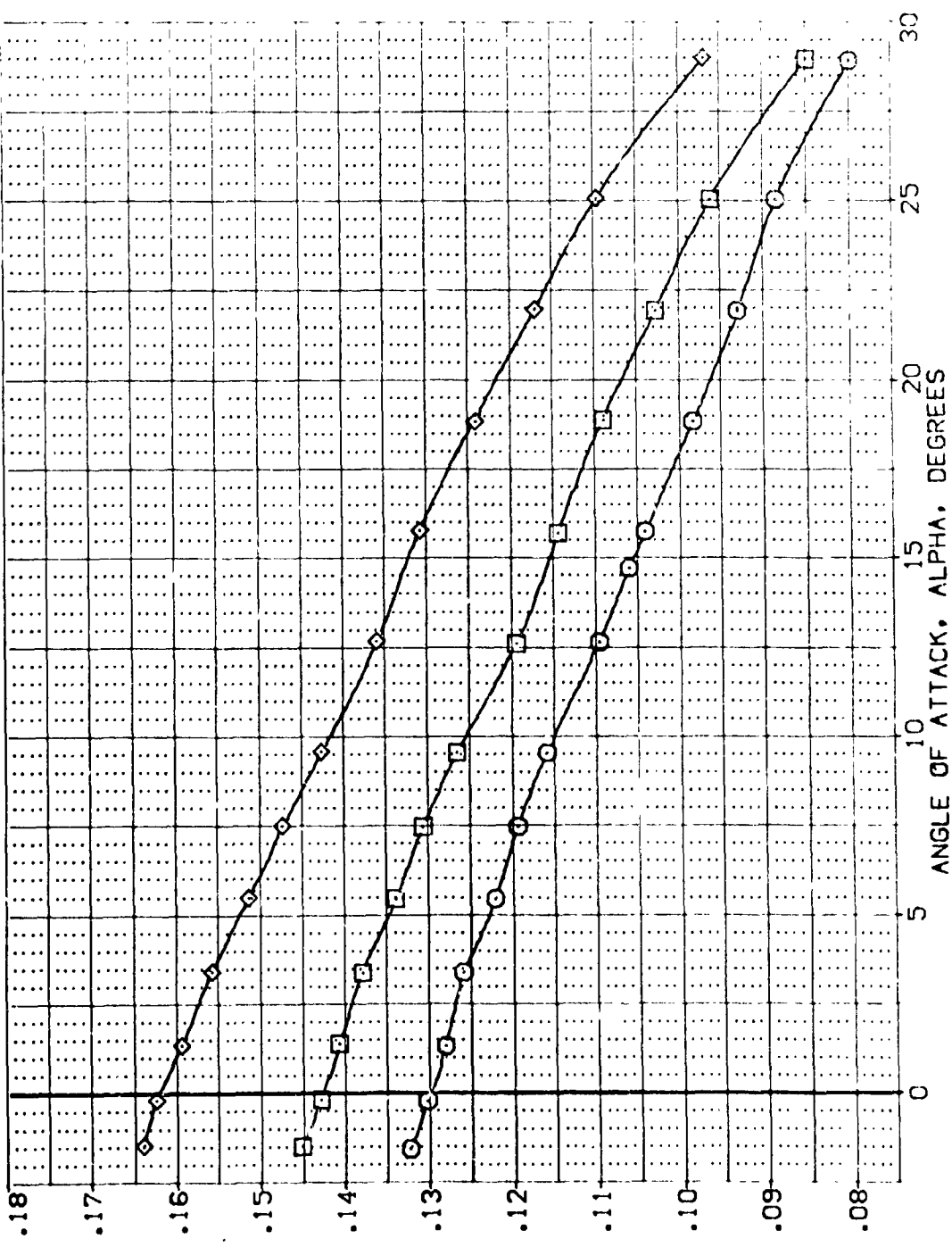


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AIRLON BOFLAP SPOBRK REFERENCE INFORMATION

(TE024) Q ARC 97-747 D4538 B C M F V1 V NOM: RV/L SREF 2.4210 SQ.F.
 (TE011) Q ARC 97-747 D4538 B C M F V1 V NOM: RV/L LREF 14.2400 IN.
 (TE038) Q ARC 97-747 D4538 B C M F V1 V NOM: RV/L XREF 20.1004 IN.
 YMRP 32.5010 IN.
 ZMRP 11.7500 IN.
 SCALE .0300 SCALE

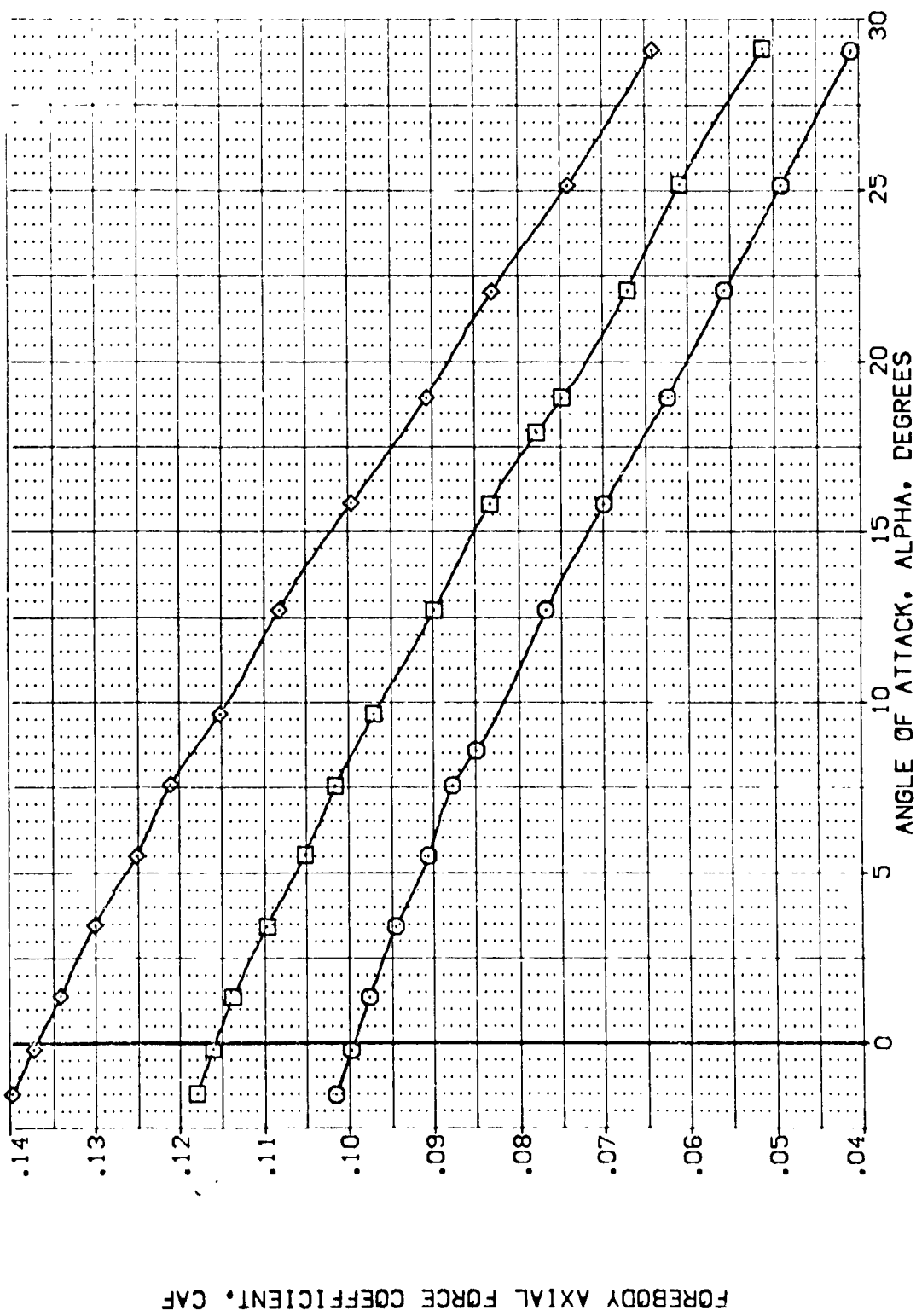
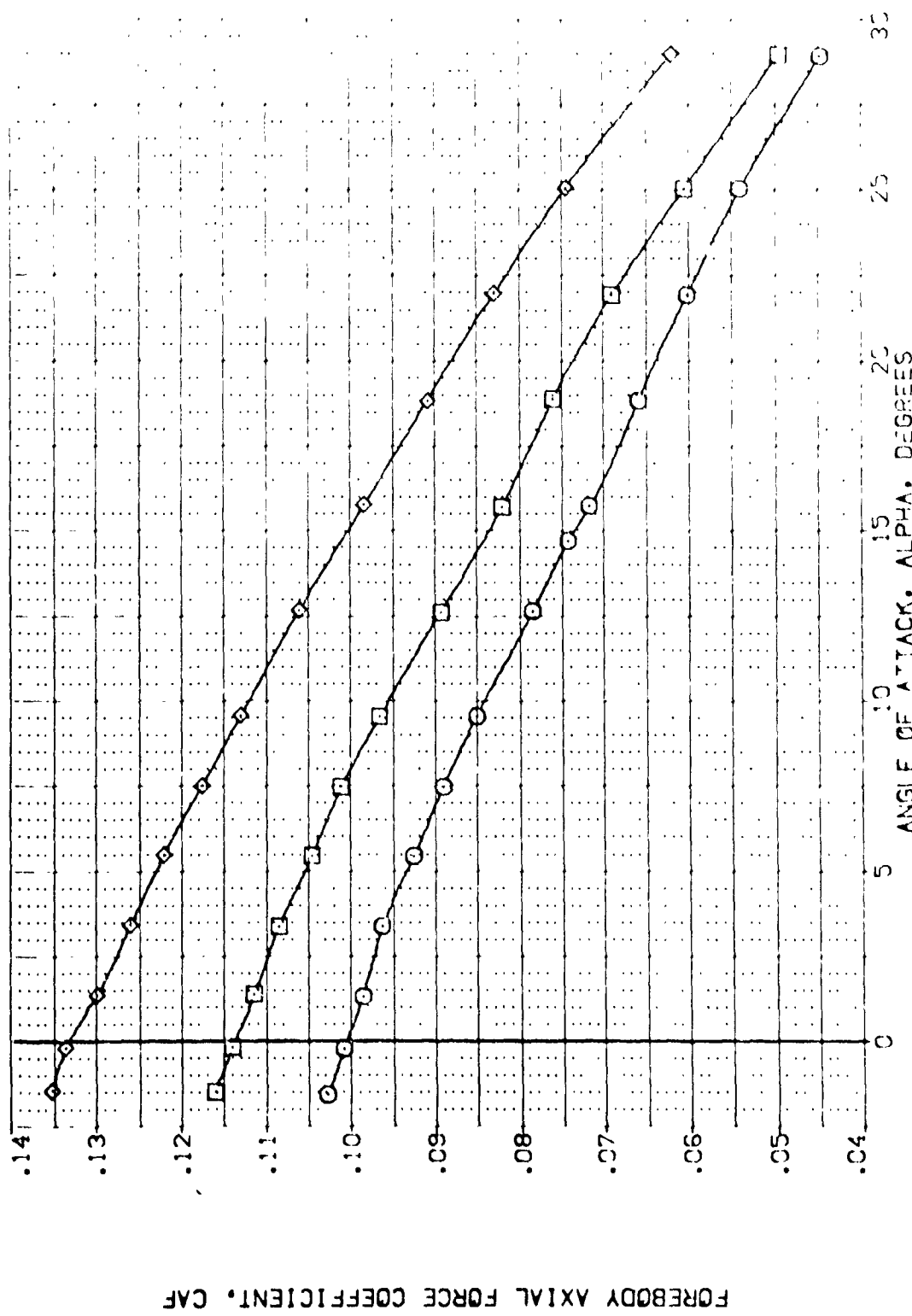


FIG. 9 SPEEDBRAKE EFFECTS
 (A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TEP024) ARC 97-747 BA538 B C M F V I V NOM: RWL
 (TEP011) ARC 97-747 BA538 B C M F V I V NOM: RWL
 (TEP036) ARC 97-747 BA538 B C M F V I V NOM: RWL

ELEVON .000 .000 .000
 AIRLON .000 .000 .000
 BOFLAP -11.700 -11.700 -11.700
 SPEEDK 25.000 55.000 85.000

REFERENCE INFORMATION:
 SREF 2.4210 SCALE
 LREF 14.2440 SCALE
 MREF 70.1250 SCALE
 YMPR 32.0000 SCALE
 ZMPR 11.2500 SCALE



FOREBODY AXIAL FORCE COEFFICIENT, CAF

FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPEED	REFERENCE INFORMATION
(TE024)	ARC 97-747 01538 B C M F V	.000	.000	1.700	26.000	SREF 2.4210 SC.FT.
(TE021)	ARC 97-747 01538 B C M F V	.000	.000	1.700	55.000	REF 14.2440
(TE038)	ARC 97-747 01538 B C M F V	.000	.000	1.700	80.000	REF 20.1000
						REF 32.0000
						REF 45.0000
						REF 60.0000
						REF 75.0000
						REF 90.0000
						REF 105.0000
						REF 120.0000
						REF 135.0000
						REF 150.0000
						REF 165.0000
						REF 180.0000
						REF 195.0000
						REF 210.0000
						REF 225.0000
						REF 240.0000
						REF 255.0000
						REF 270.0000
						REF 285.0000
						REF 300.0000
						REF 315.0000
						REF 330.0000
						REF 345.0000
						REF 360.0000

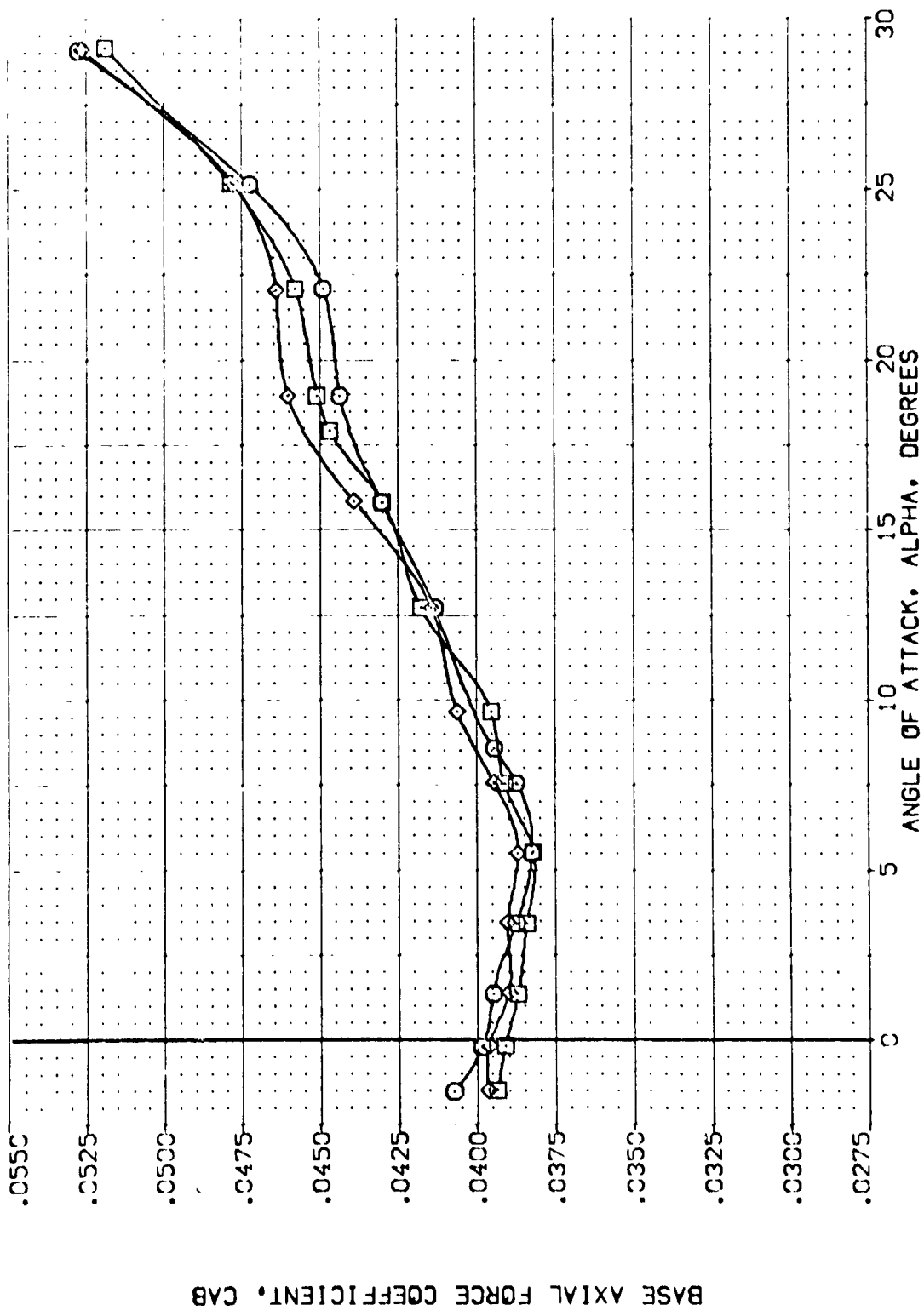


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIGN	BOFLAP	SPODBR	REFERENCE INFORMATION
(TEK024)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	75.000	SREF 2.4210 SQ.FT.
(TEK011)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEK038)	ARC 97-747 CAS38 B C M F VI V	.000	.000	-11.700	85.000	EREF 28.1004 IN.
						XMRP 32.5010 IN.
						YMRP .0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0000

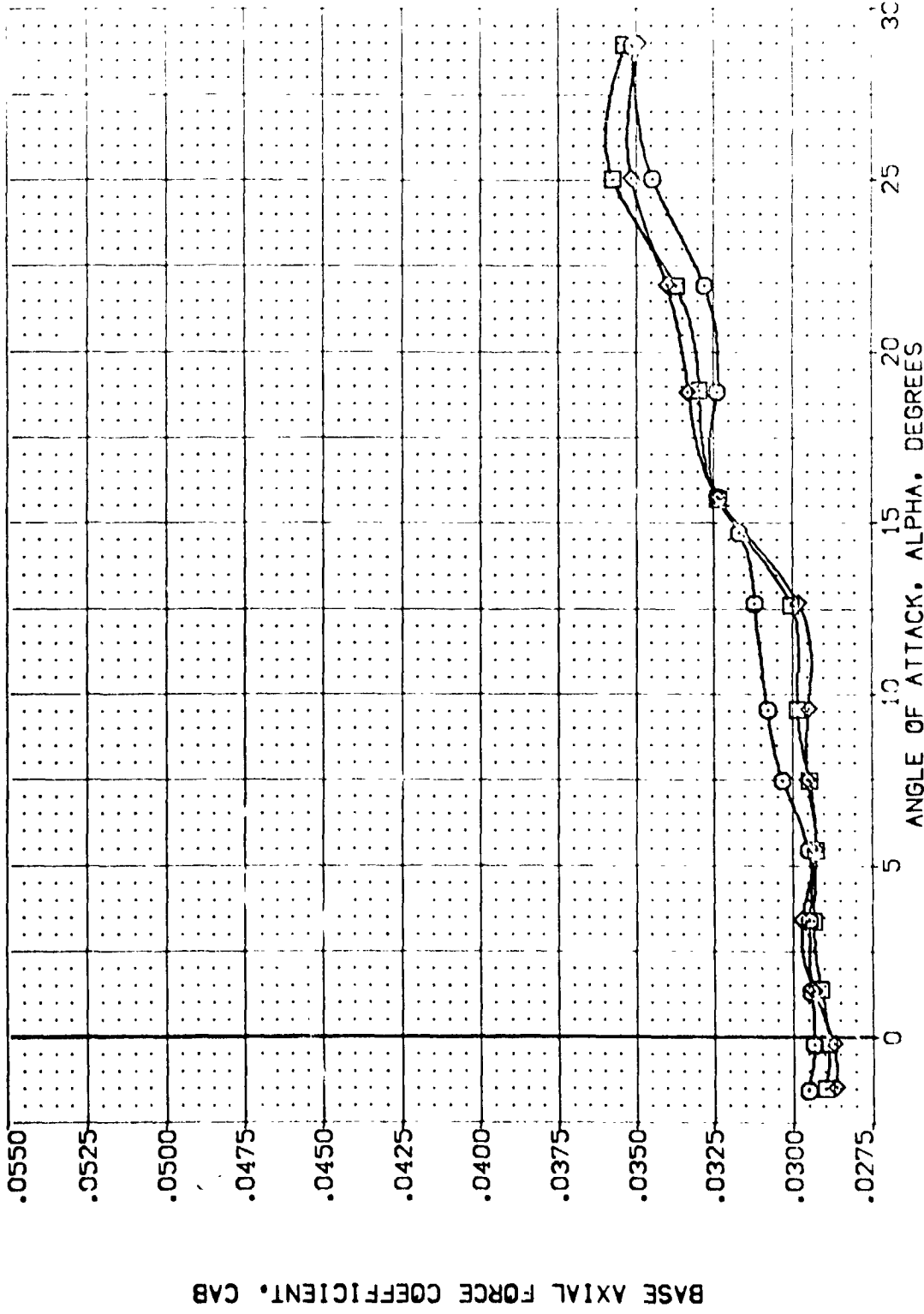
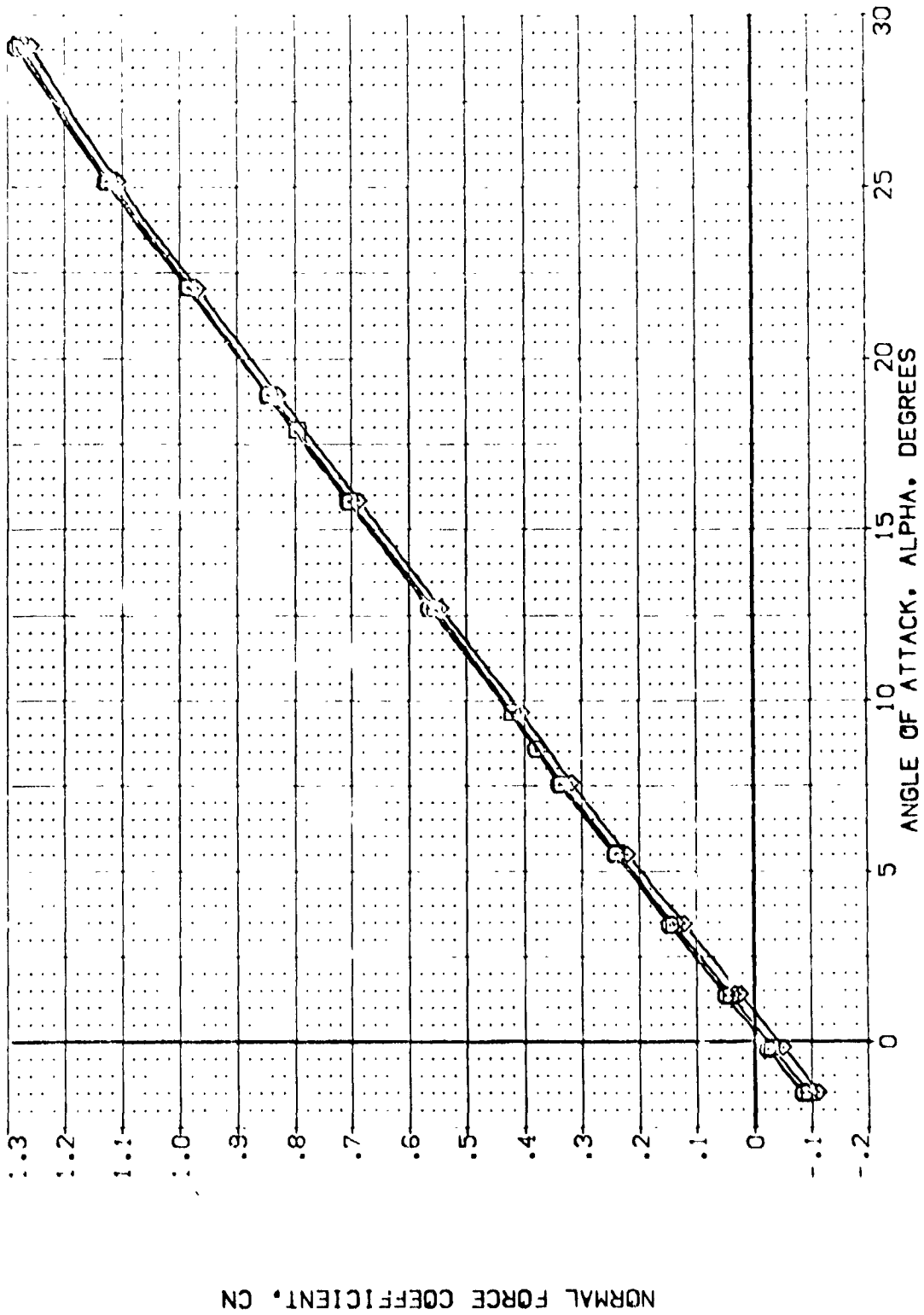


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AIRLIFT	EOF LAP	SPEED	REFERENCE INFORMATION
(TE)024	ABC 57-747 2A503 B C M F V I V	.000	.000	-11.700	25.000	2.4210 SCALE
(TE)021	ABC 57-747 2A503 B C M F V I V	.000	.000	-11.700	55.000	14.2440 IN.
(TE)020	ABC 57-747 2A503 B C M F V I V	.000	.000	-11.700	65.000	23.0000 IN.
(TE)038	ABC 57-747 2A503 B C M F V I V	.000	.000	-11.700		32.0000 IN.
						.0000 IN.
						11.2650 IN.
						.0000 SCALE



NORMAL FORCE COEFFICIENT, CN

FIG. 9 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ TEND4 }	ARC 97-747 DA538 B C M F V I V	.000	.000	-11.700	29.000	SREF 2.4210 SQ.FT.
{ TEND1 }	ARC 97-747 DA538 B C M F V I V	.000	.000	-11.700	55.000	LREF 14.2420 IN.
{ TEND38 }	ARC 97-747 DA538 B C M F V I V	.000	.000	-11.700	63.000	BREF 20.1124 IN.
						XREF 32.3210 IN.
						YREF 0.0000 IN.
						ZREF 0.0000 IN.
						SCALE 11.0000 SCALE

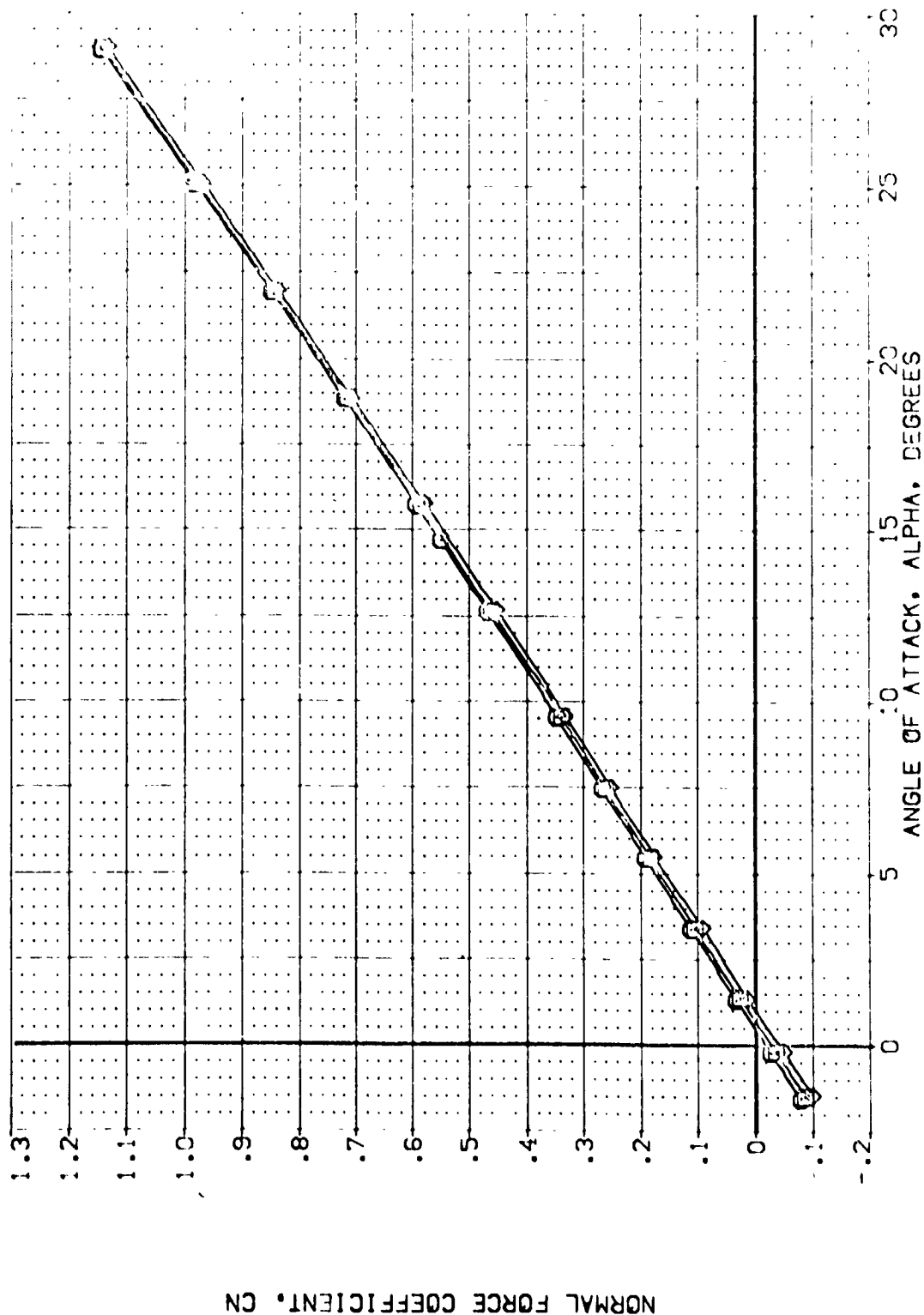
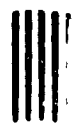


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AILIRON BOFLAP SPEEDBRK REFERENCE INFORMATION
 [TEMP24] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL SREF 2.4210 SCALF 1.0
 [TEMP25] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL LBREF 14.2640
 [TEMP26] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL BRREF 78.1000
 [TEMP27] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL YREF 32.5000
 [TEMP28] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL ZREF 11.2000
 [TEMP29] O ARC 97-747 CAS23 B C M F VI V NOM: RVUL SCAFE 11.0000 SCALE

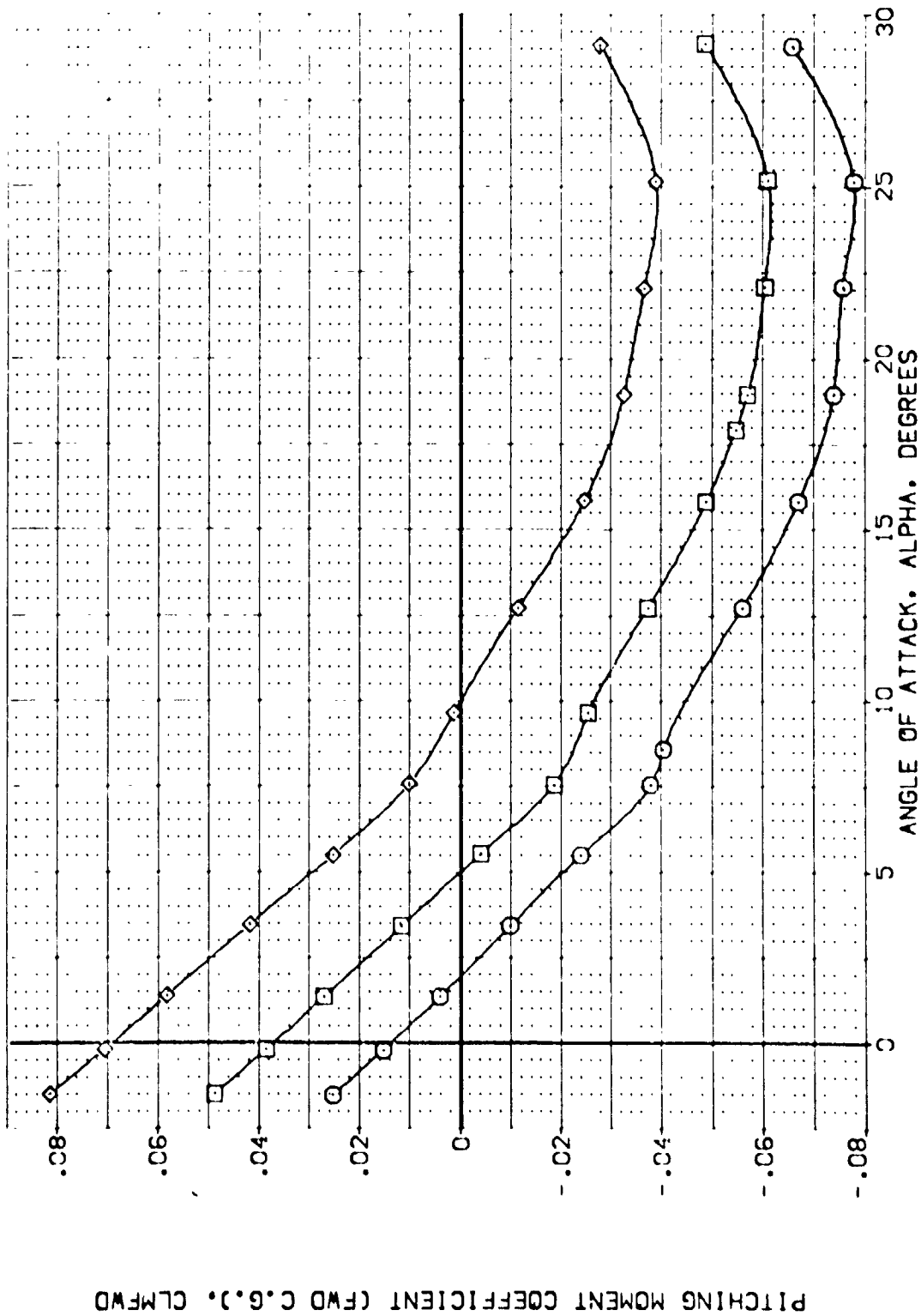


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (TEM024) (TEM011) (TEM008)

CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F V1 V (NOM. RWL) ARC 97-747 DAS38 B C M F V1 V (NOM. RWL) ARC 97-747 DAS38 B C M F V1 V (NOM. RWL)

ELEVATION: .000 .000 .000

AILERON: .000 .000 .000

EOF LAP: -11.700 -11.700 -11.700

SPOBRK: 25.000 55.000 85.000

REFERENCE INFORMATION: SREF: 2.4218 SCALE: LREF: 14.2140 BREF: 28.4280 XREF: 32.3000 YREF: 11.2500 ZREF: 11.2500 SCALE: .0500

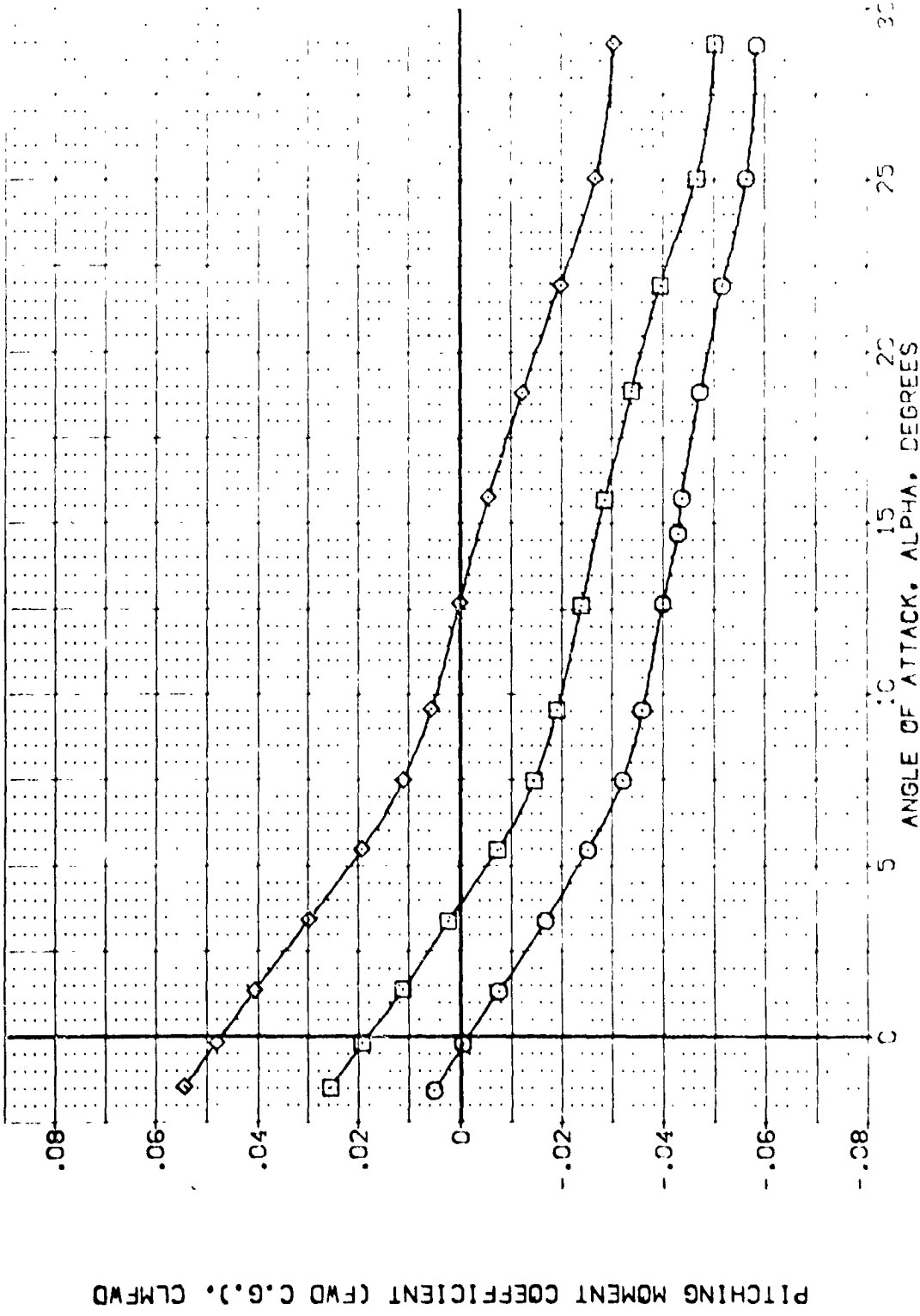
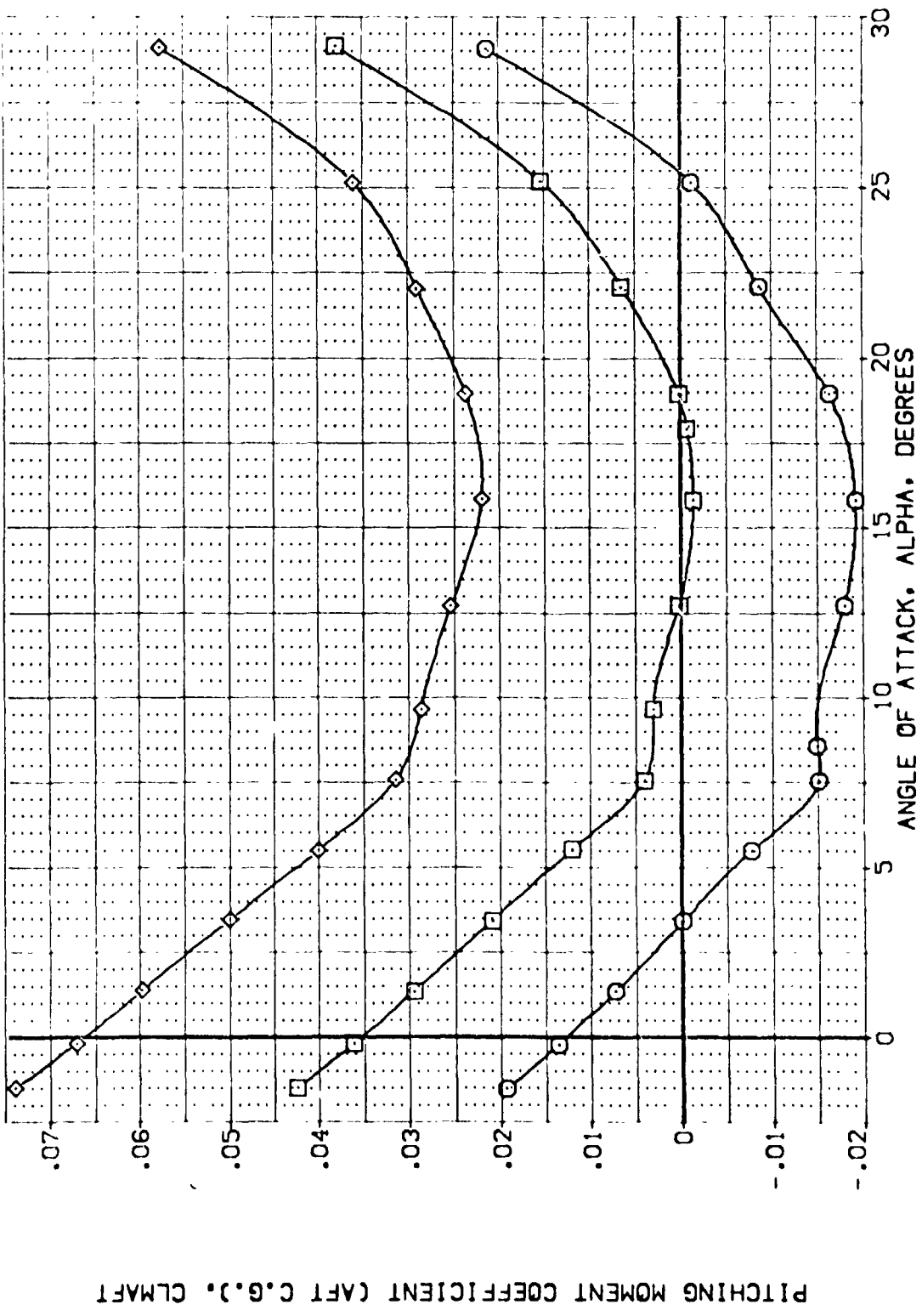


FIG. 9 SPEEDBRAKE EFFECTS

(3) MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ELEVON	AILLRON	BOFLAP	SPODBRK	REFERENCE INFORMATION
{TEK024}	ARC 97-747 BA538 B C M F V I V	NON.	RV/L	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
{TEP011}	ARC 97-747 CA538 B C M F V I V	NON.	RV/L	.000	.000	-11.700	55.000	LRFF 14.2440 IN.
{TEK038}	ARC 97-747 DA538 B C M F V I V	NON.	RV/L	.000	.000	-11.700	85.000	CRFF 28.1004 IN.
								XRFF 32.5310 IN.
								YMRP .0000 IN.
								ZMRP 11.2500 IN.
								SCALE .0000



PITCHING MOMENT COEFFICIENT (AFT C.G.), CLM_AFT

FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (TEK024), (TEK011), (TEK038)
 CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C M F VI V, ARC 97-747 GAS38 B C M F VI V, ARC 97-747 GAS38 B C M F VI V
 NOT: RV/L, NOT: RV/L, NOT: RV/L
 ELEVON: .000, .000, .000
 AIRTRON: .000, .000, .000
 BDFLAP: -11.700, -11.700, -11.700
 SPOBRK: 25.000, 55.000, 65.000
 REFERENCE INFORMATION: SREF 2.4210, LREF 14.2440, BREF 28.1004, XREF 32.5010, YMRP .0000, ZMRP 11.2000, SCALE .0330

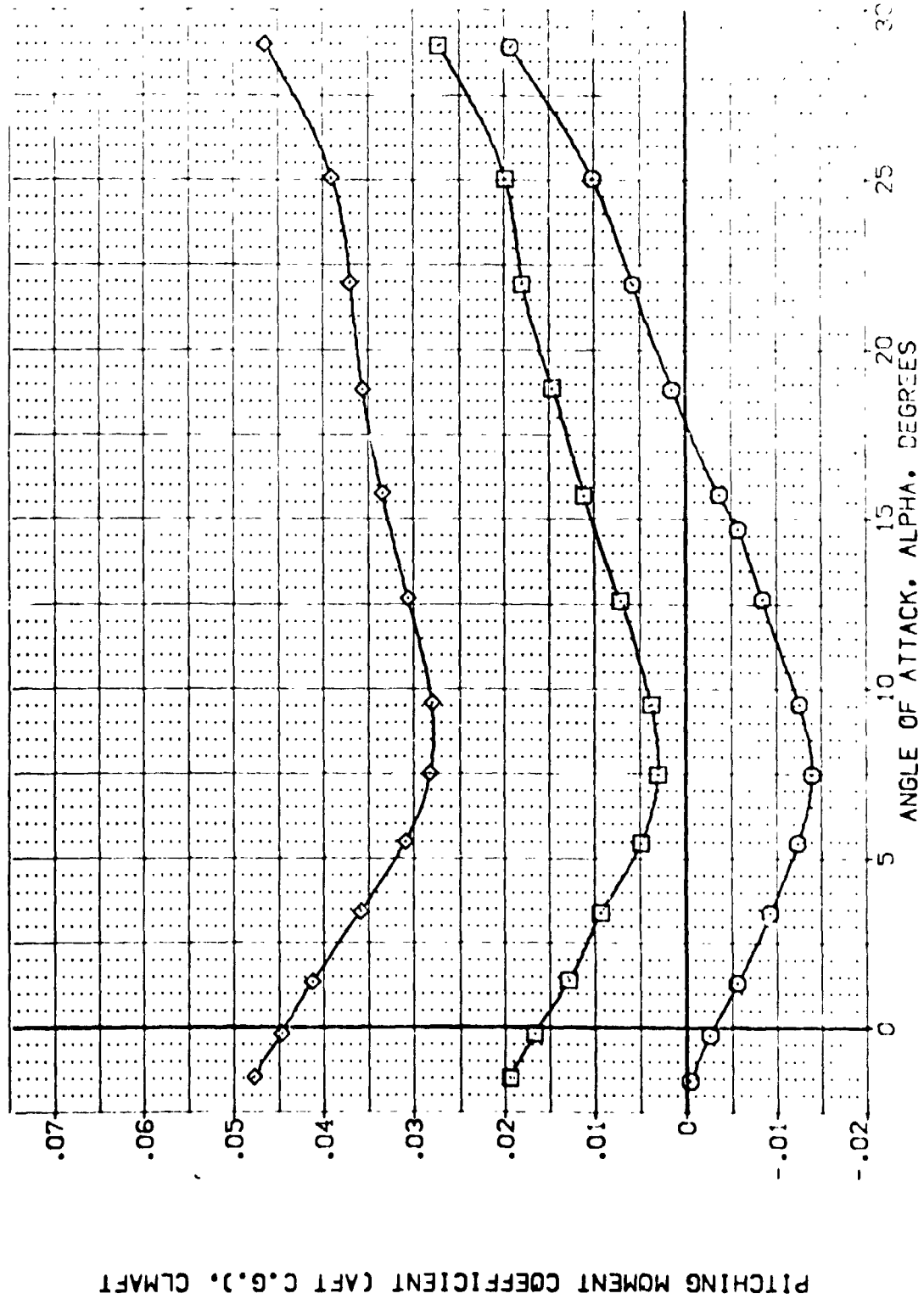


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK074)	ARC 57-747 C A538 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TEK071)	ARC 57-747 C A538 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2740 IN.
(TEK033)	ARC 57-747 C A538 B C M F VI V	.000	.000	-11.700	65.000	BREF 20.1004 IN.
						XREF 32.3310 IN.
						YREF 10.0000 IN.
						ZREF 11.2500 IN.
						SCALE .0330 SCALE

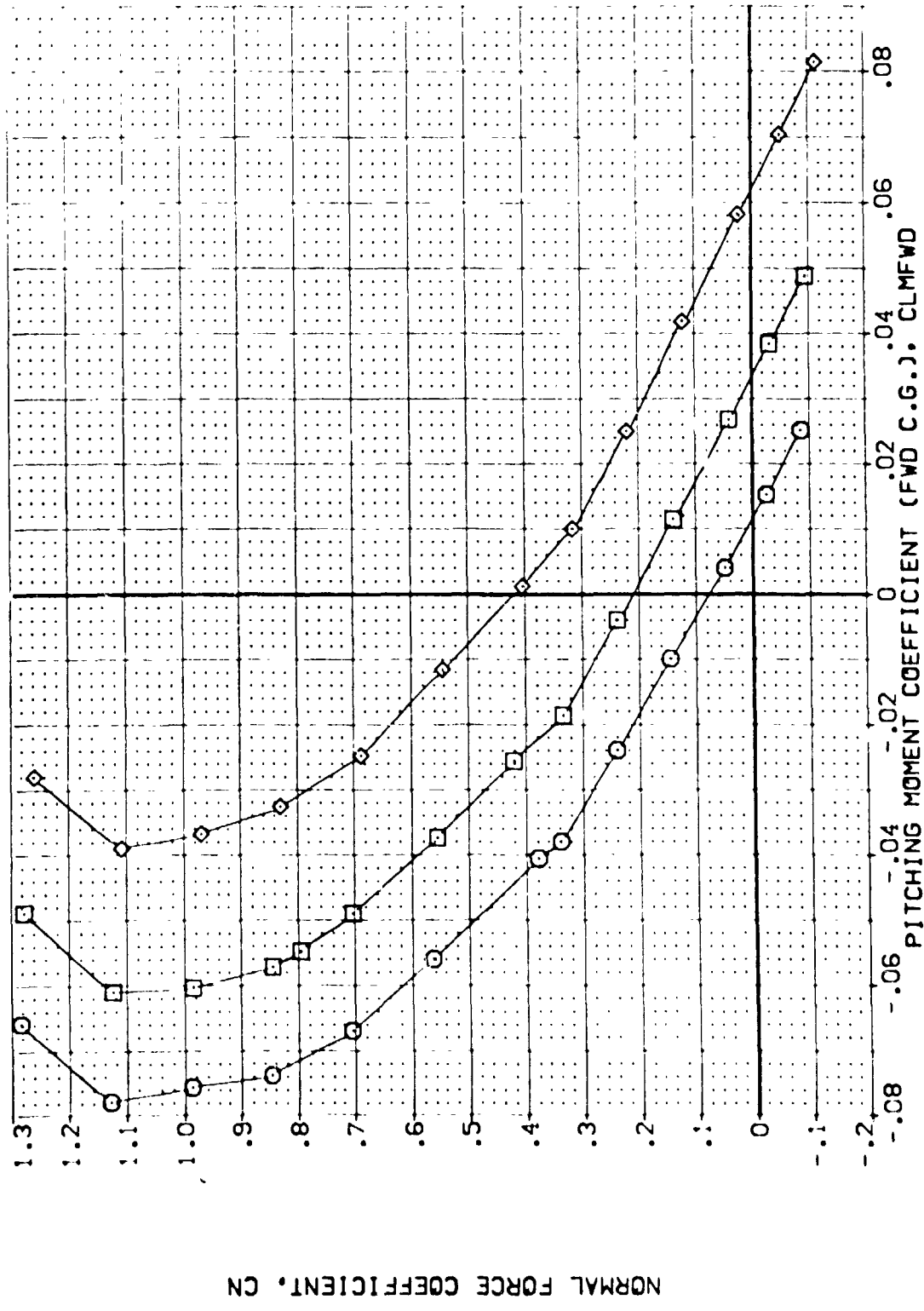


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: (TEK024), (TEK011), (TEK008)

CONFIGURATION DESCRIPTION:
 ARC 97-747 OAS38 B C M F V1 V
 ARC 97-747 OAS33 B C M F V1 V
 ARC 97-747 OAS33 B C M F V1 V

ELEVON: .000, .000, .000
 AIRLON: .000, .000, .000
 BDF LAP: -11.700, -11.700, -11.700
 SPOBRK: 25.000, 55.000, 65.000

REFERENCE INFORMATION:
 SREF: 2.4210 SQ. FT.
 LREF: 14.2440 IN.
 BREF: 28.1004 IN.
 XMRP: 32.5010 IN.
 YMRP: .0000 IN.
 ZMRP: 11.2000 IN.
 SCALE: .0000

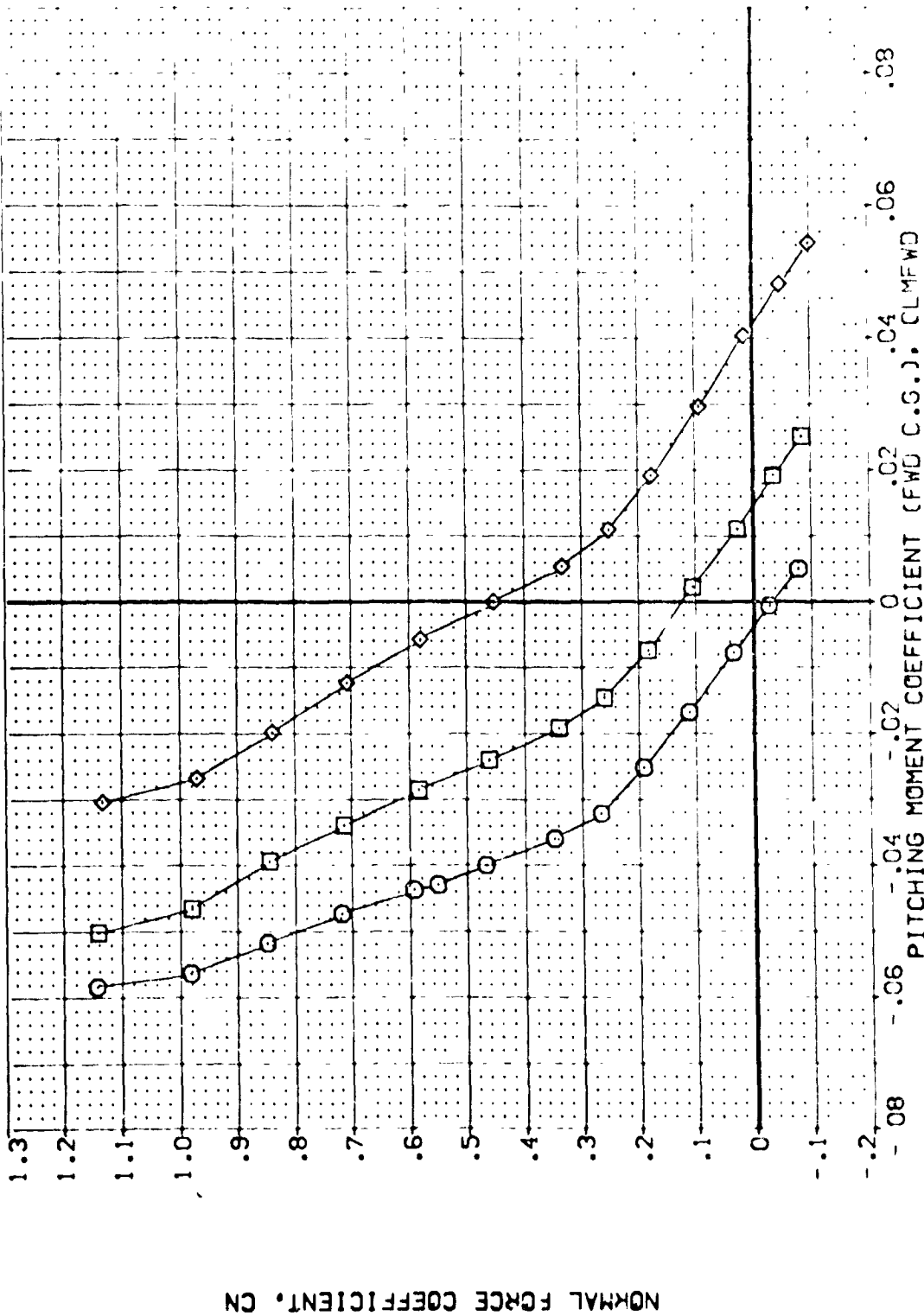


FIG. 9 SPEEDBRAKE EFFECTS
 (B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEMP04)	ARC 97-747 BA538 B C M F VI V	.000	.000	-11.700	25.000	SREF 2.4210 SQ.FT.
(TEMP01)	ARC 97-747 CA538 B C M F VI V	.000	.000	-11.700	55.000	LREF 14.2440 IN.
(TEMP038)	ARC 97-747 CA538 B C M F VI V	.000	.000	-11.700	65.000	BREF 28.1000 IN.
						VMPP 32.3013 IN.
						ZMPP 11.0000 IN.
						SCALE .0000 SCALE

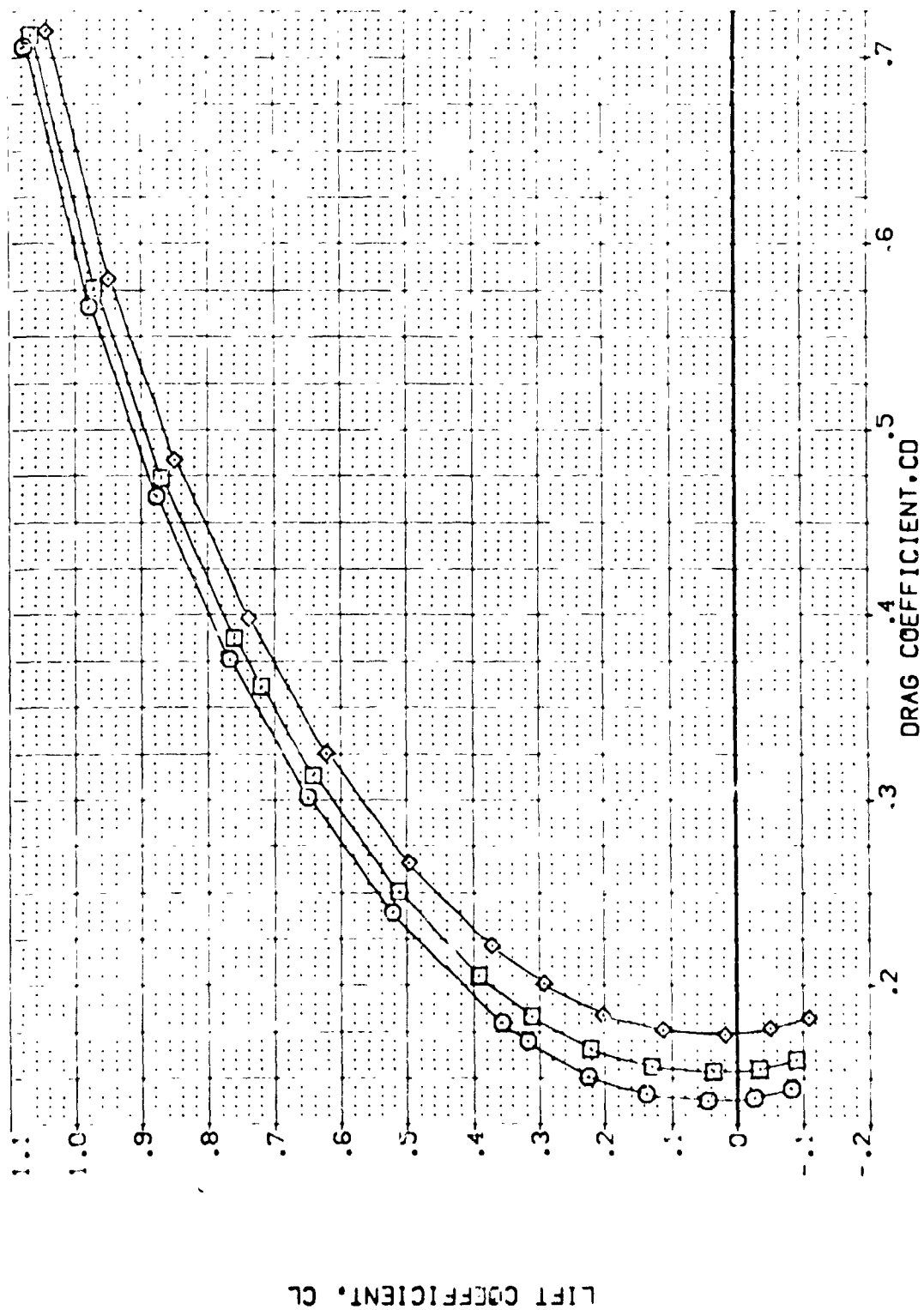
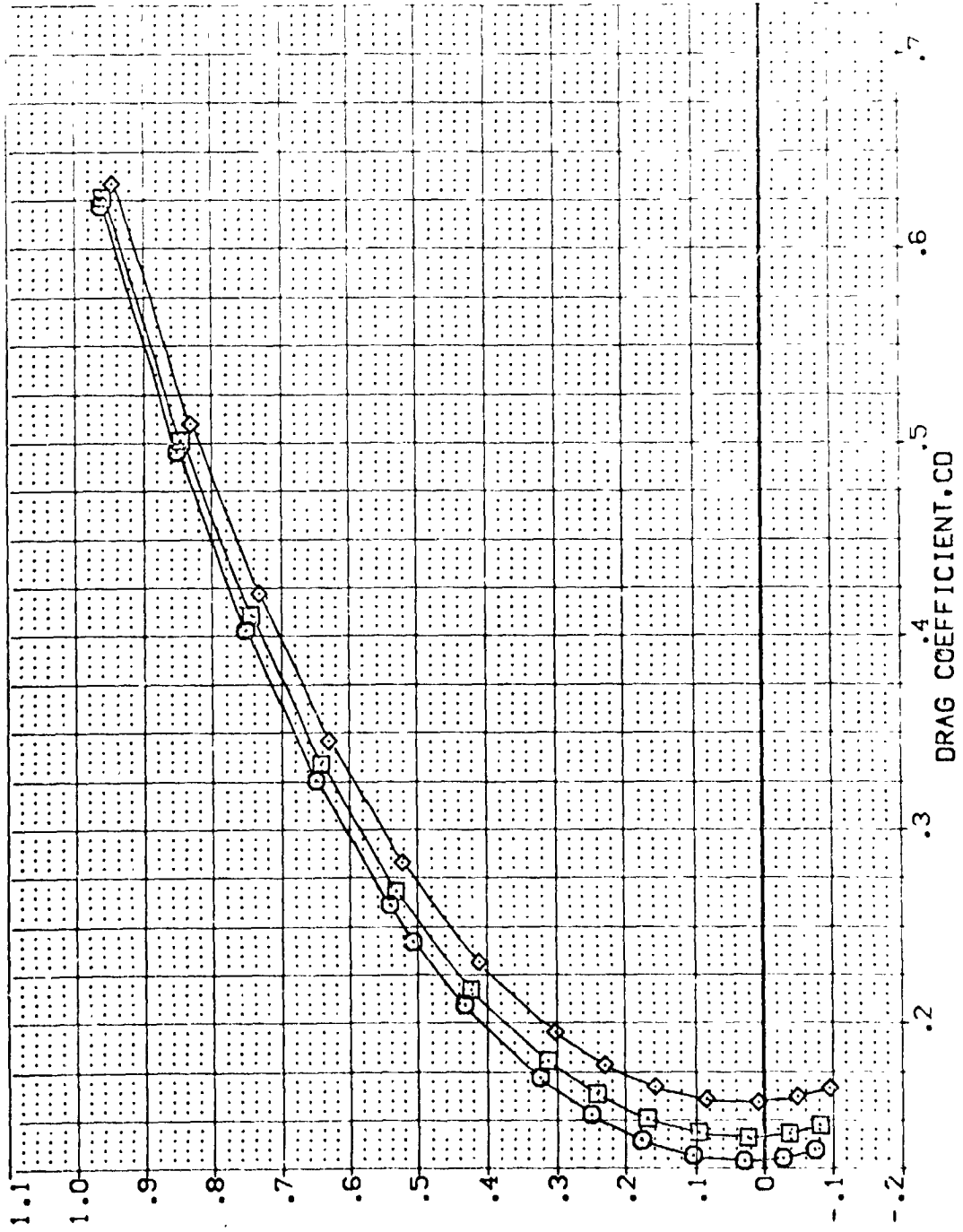


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK024)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	25.000	2.4210
(TEK011)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	55.000	14.2440
(TEK038)	ARC 97-747 DAS38 B C M F VI V	.000	.000	-11.700	65.000	28.1000
						32.0000
						.0000
						11.2500
						.0500
						SCALE



LIFT COEFFICIENT, CL

FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL: ○ □ ◇
 CONFIGURATION DESCRIPTION:
 ARC 97-747 CAS38 B C M F V1 V NOM: RVAL
 ARC 97-747 CAS33 B C M F V1 V NOM: RVAL
 ARC 97-747 CAS38 B C M F V1 V NOM: RVAL
 ELEVON: .000 .000 .000
 AIRLION: .000 .000 .000
 BOFLAP: -11.700 -11.700 -11.700
 SPOBRK: 25.000 25.000 25.000
 REFERENCE INFORMATION:
 SREF: 2.4210 SQ.FT.
 LREF: 14.2440 IN.
 SREF: 28.1004 IN.
 XMRP: 32.5010 IN.
 YMRP: .0000 IN.
 ZMRP: 11.2500 IN.
 SCALE: .0000 SCALE

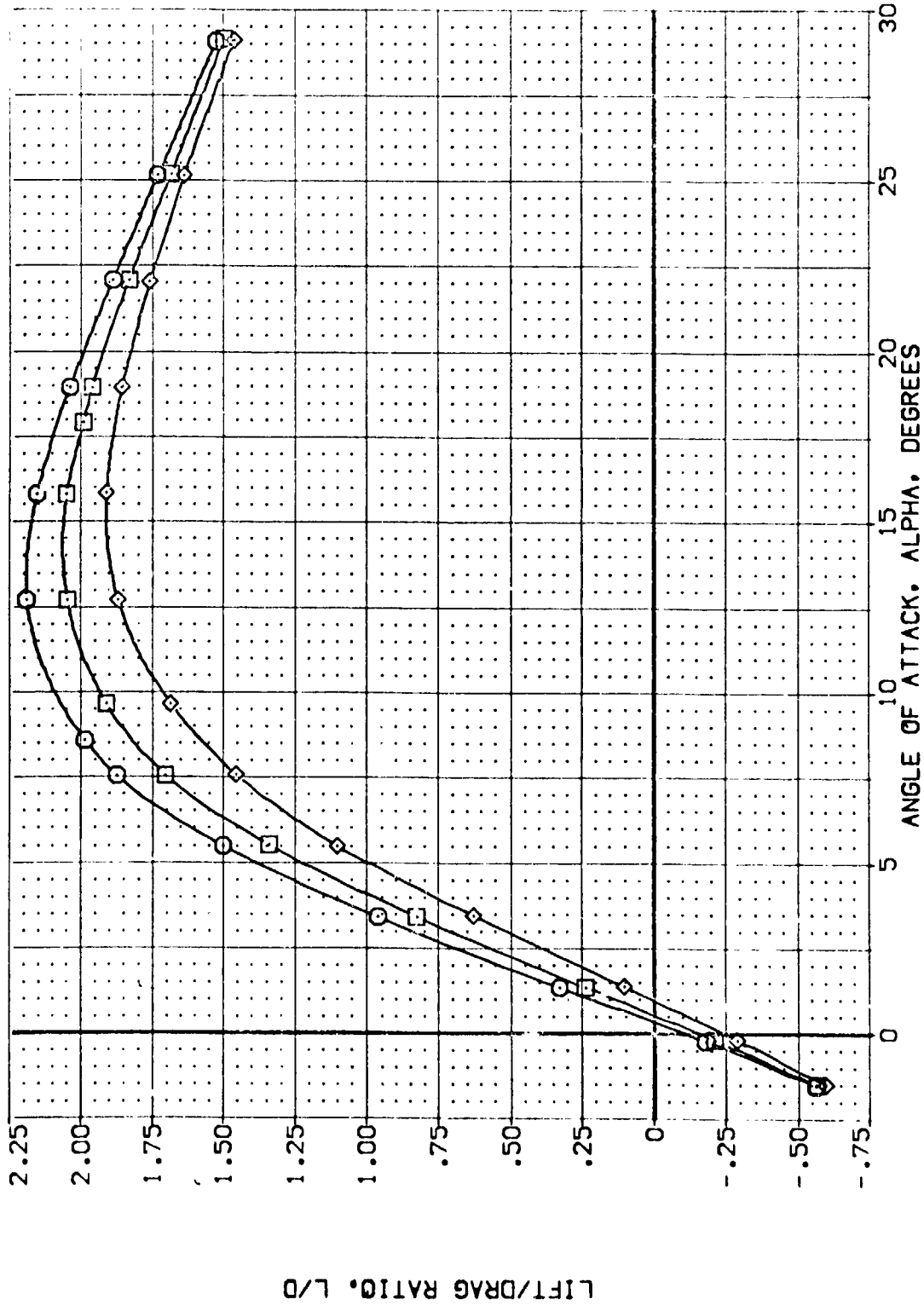


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1EM024) ARC 97-747 GAS38 B C M F V V NOM: RWVL
 (1EM011) ARC 97-747 GAS38 B C M F V V NOM: RWVL
 (1EM038) ARC 97-747 GAS38 B C M F V V NOM: RWVL

ELEVON .000
 AIRTRON .000
 BDFLAP -11.700
 SPOBRK 25.000

REFERENCE INFORMATION
 XREF 2.4210
 YREF 14.2470
 ZREF 28.1504
 YMRP 32.1504
 ZMRP 11.0000
 SCALE 11.0000

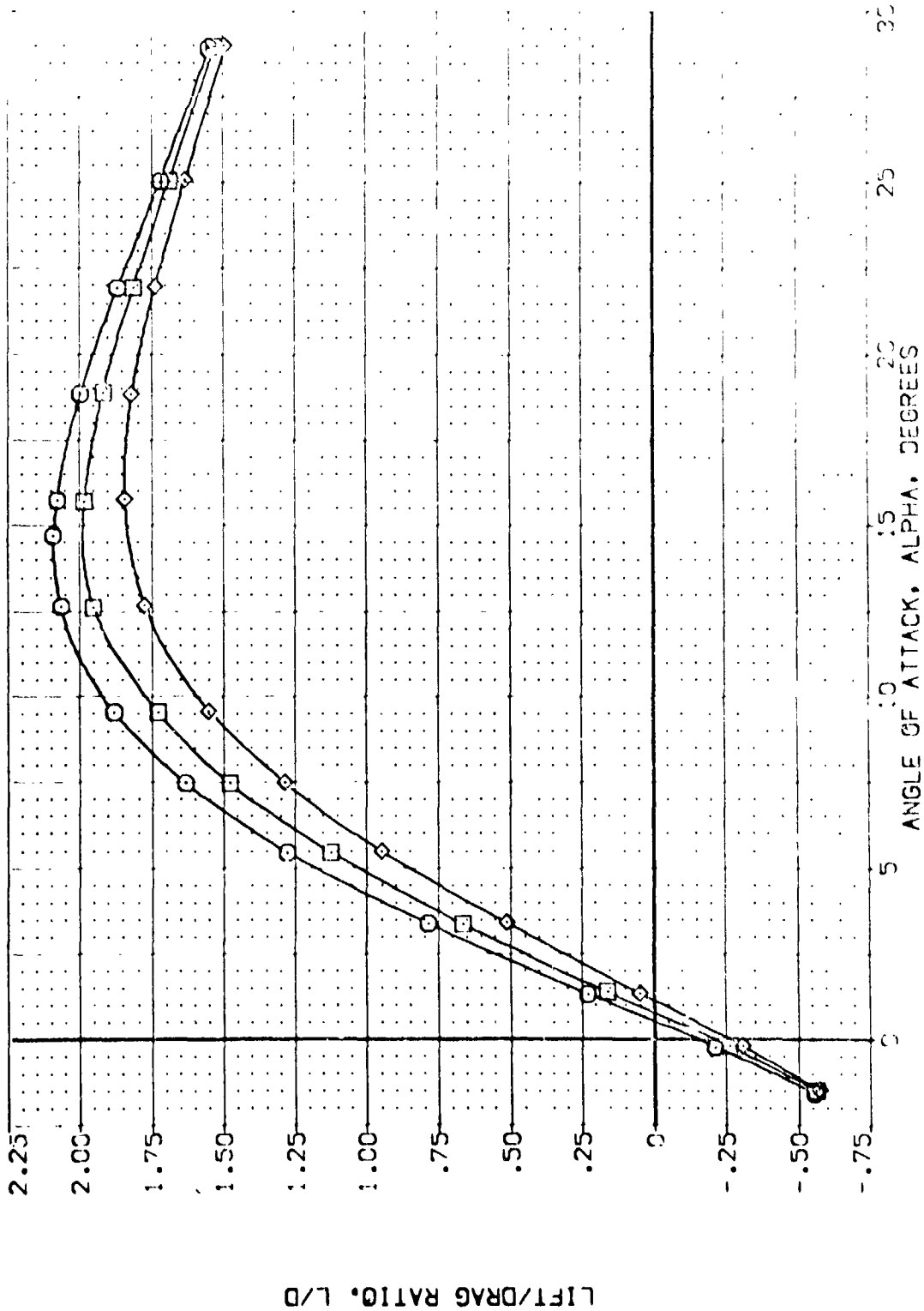


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVATION	AILDRN	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AEP074)	APC 97-747 CAS23 B C M F V V	.000	.000	-11.700	25.000	2.4210 SQ.FT.
(AEP075)	APC 97-747 CAS23 B C M F V V	.000	.000	-11.700	55.000	14.2440
(AEP080)	APC 97-747 CAS33 B C M F V V	.000	.000	-11.700	86.000	28.1004
(AEP081)	APC 97-747 CAS33 B C M F V V	.000	.000	-11.700		32.5010
						YMGD
						ZMGD
						SCALE
						.0300

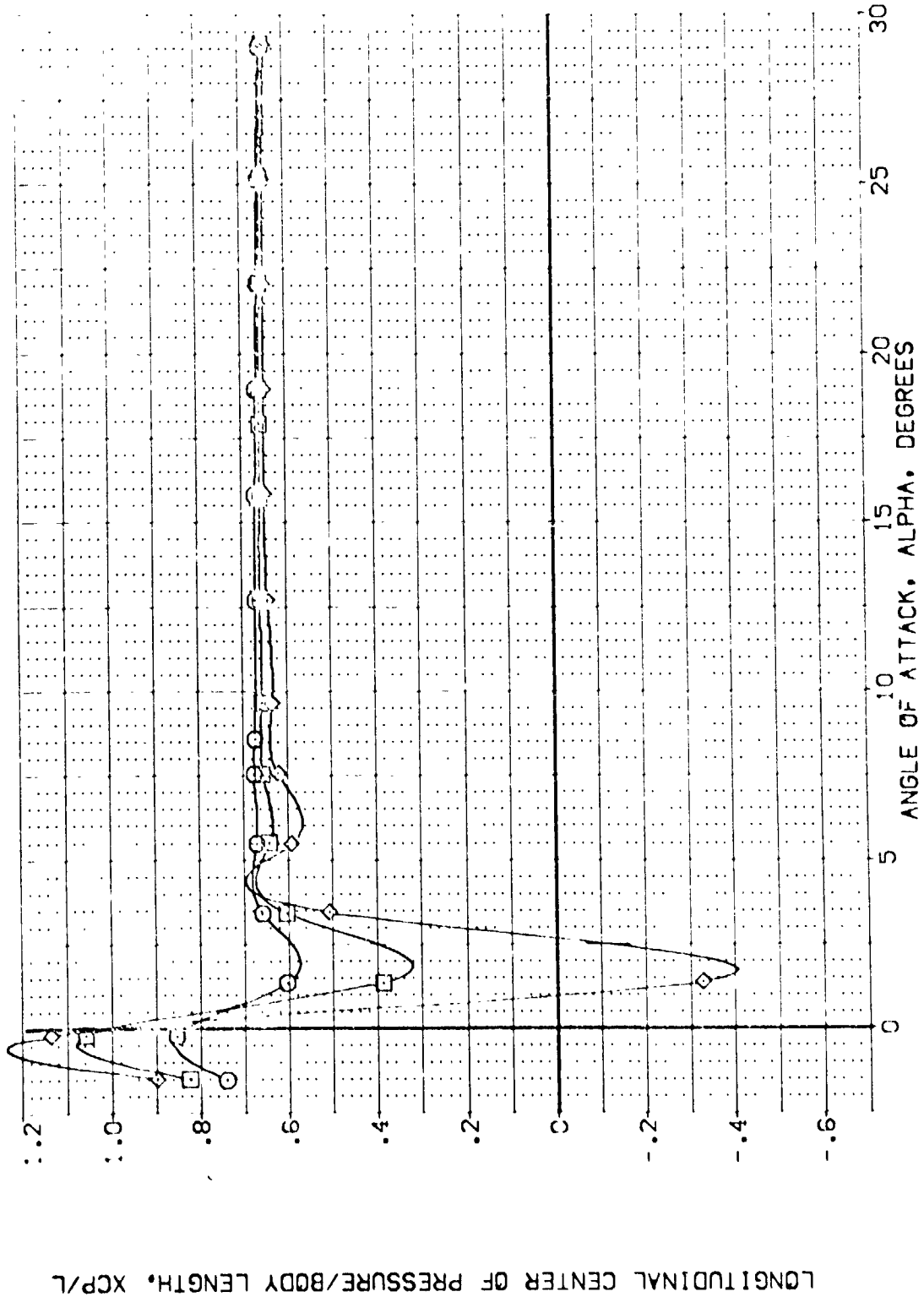


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

{AEK024} ARC 97-747 QAS38 B C M F VI V NOM: RNVL SREF 2.4210 SQ.FT.

{AEK011} ARC 97-747 QAS38 B C M F VI V NOM: RNVL LREF 14.2740 IN.

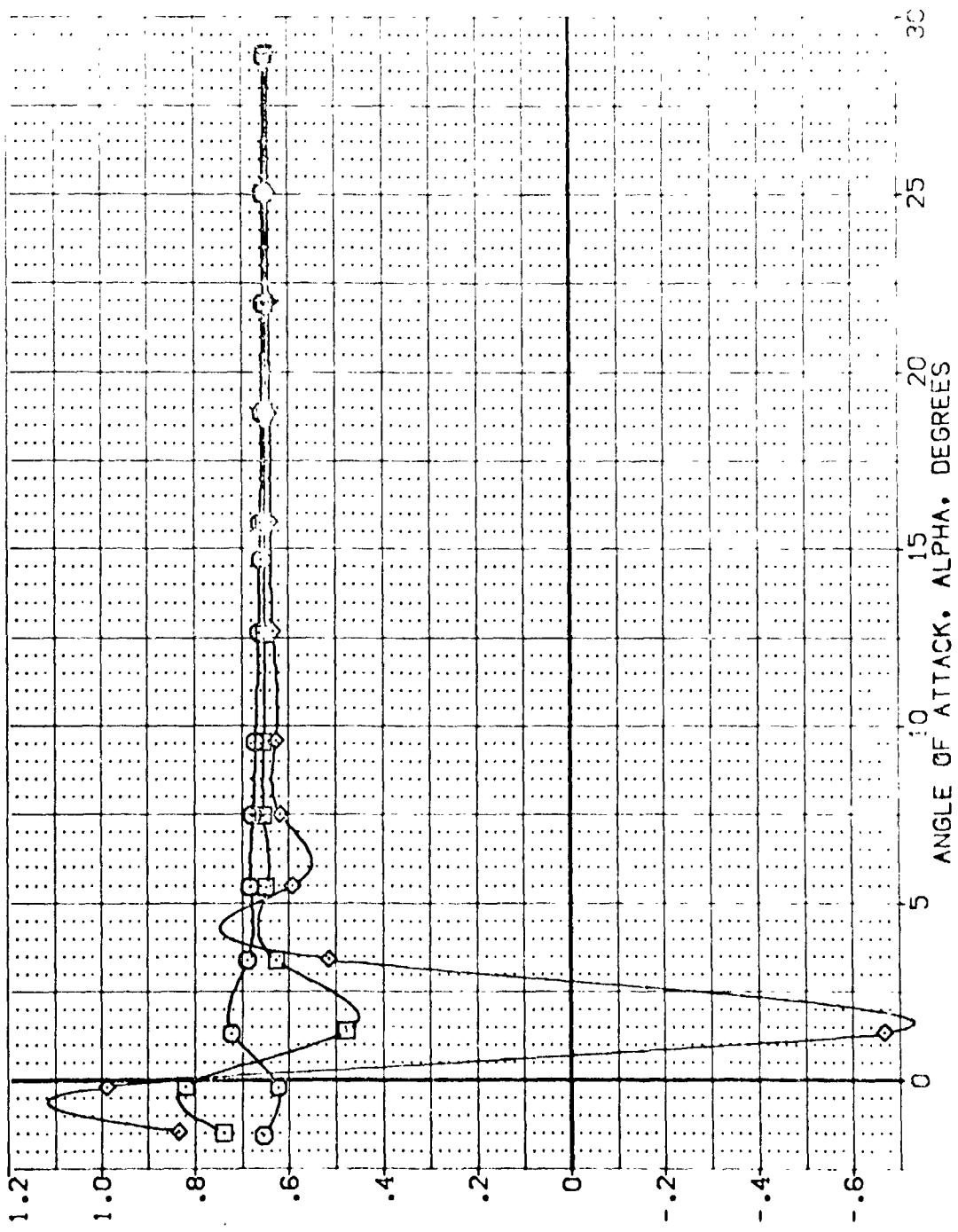
{AEK038} ARC 97-747 QAS38 B C M F VI V NOM: RNVL XMRP 28.1004 IN.

ELEVON .000 AILRON .000 BOFLAP -11.700 SPDBRK 25.000

.000 .000 .000 -11.700 55.000

.000 .000 .000 -11.700 65.000

ZMRP 11.2500 IN. SCALE .0300



LONGITUDINAL CENTER OF PRESSURE/BODY LENGTH, XCP/L

FIG. 9 SPEEDBRAKE EFFECTS
(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(06M011) APC 97-747 CA523 B C M F V I V NOM. RVL 2.4210 SQ. FT.

(7EPC30) APC 97-747 CA538 B C M F V I V NOM. RVL 14.244C IN.

ELEVON AILRON BOFLAP DSB SREF 30.000

.000 .000 -11.700 -11.700 LREF 60.000

.000 .000 -11.700 -11.700 BRREF 28.000

XMSP 32.3010 IN.

YMSP 11.0000 IN.

ZMSP 11.2500 IN.

SCALE .0000 SCALE

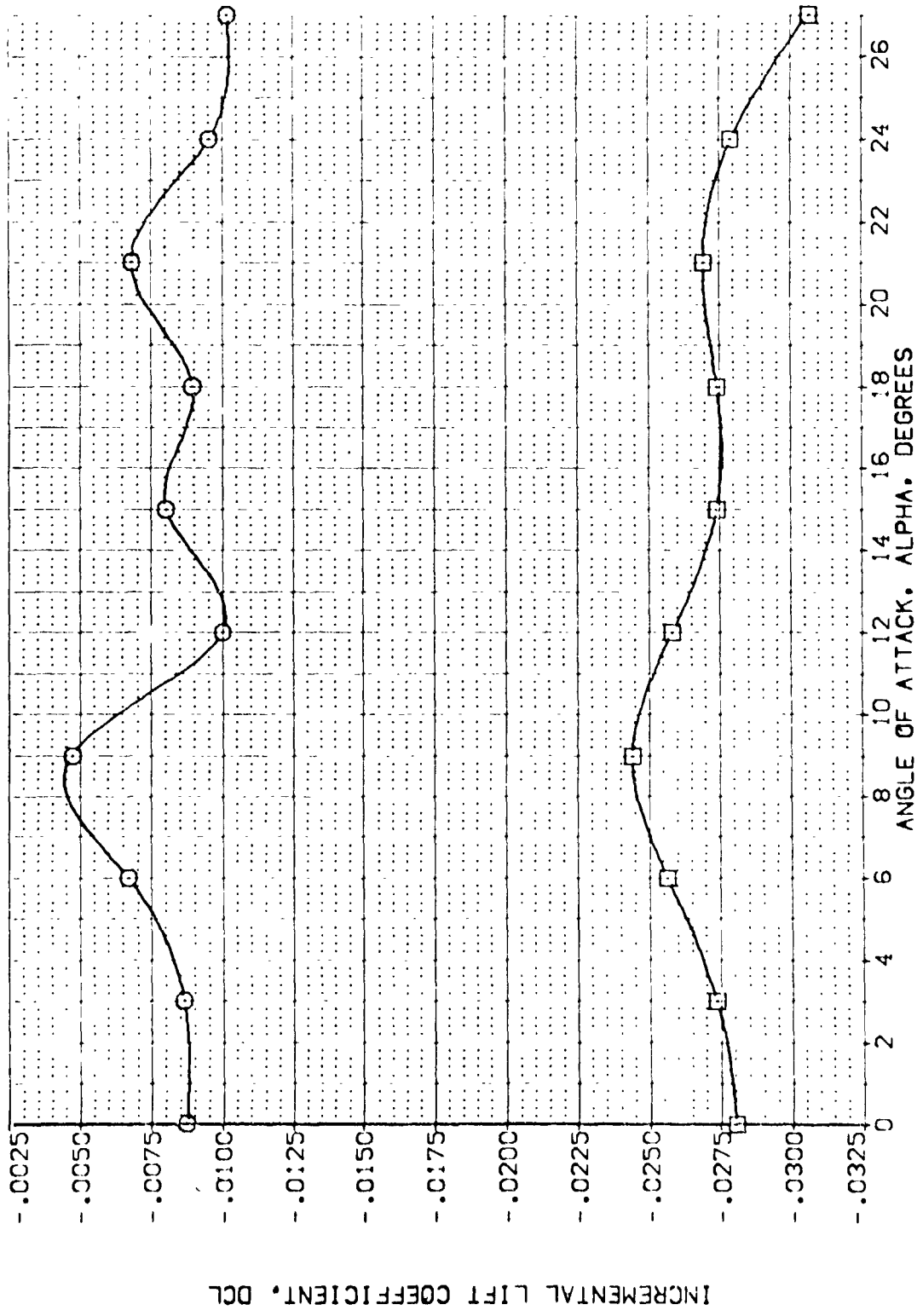


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: ()
 CONFIGURATION DESCRIPTION: ARC 97-747 C1A528 B C H F VI V NOM: RNVL
 (VER038) () ARC 97-747 C1A538 B C H F VI V NOM: RNVL
 ELEVON: .000 .000
 AIRLON: .000 .000
 BOFLAP: .000 -11.700
 DSB: 30.000 60.000
 REFERENCE INFORMATION:
 SREF: 2.4210 52. FT.
 LREF: 14.2440 IN.
 XMPG: 28.1004 IN.
 YMPG: 52.3010 IN.
 ZMPG: .0000 IN.
 SCALE: 11.2500 11.2500 SCALE

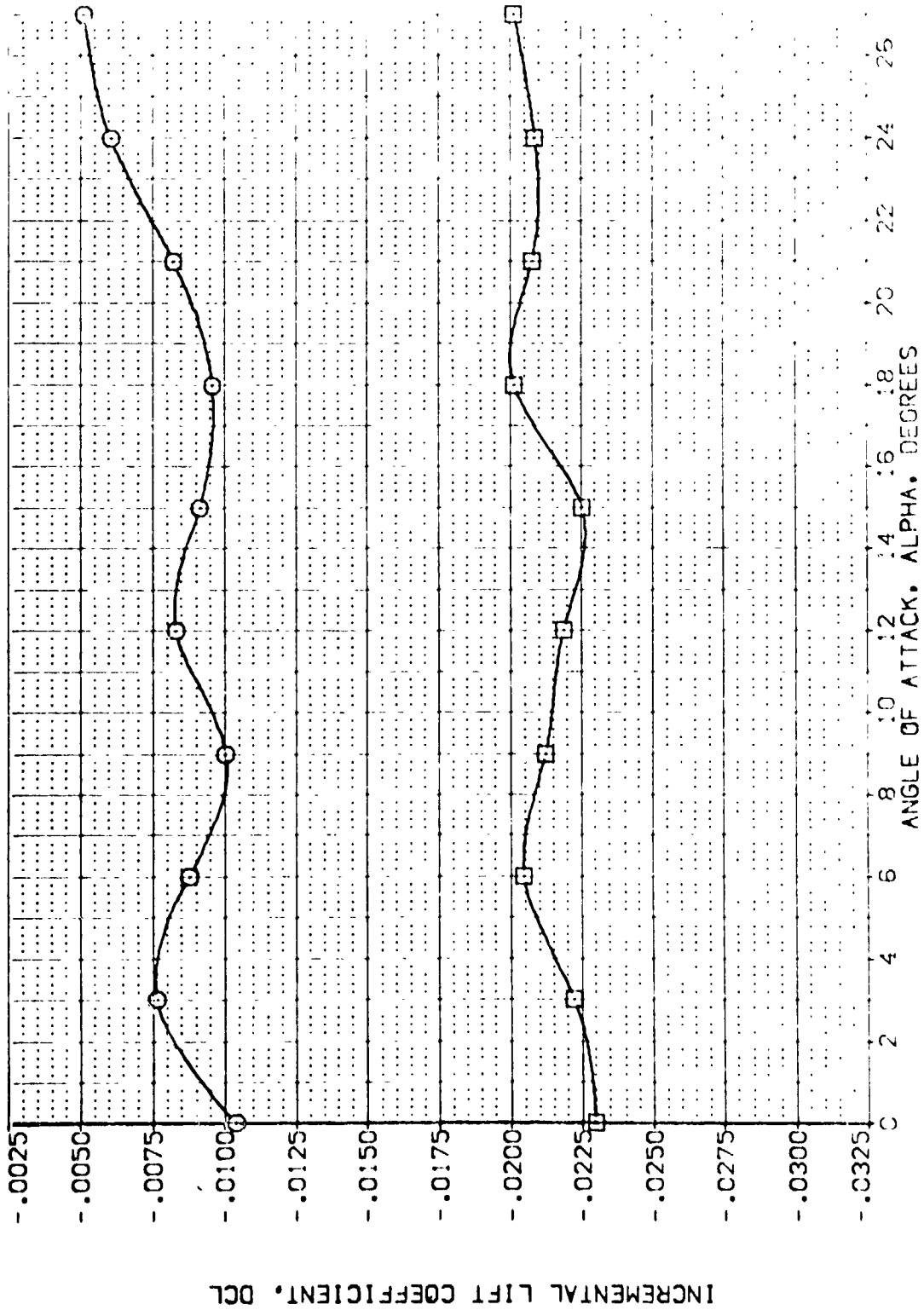


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL: (VE#038) □
 CONFIGURATION DESCRIPTION: ARC 97-747 D/S38 B C M F V; V NOM. RWL
 ARC 97-747 D/S33 B C M F V; V NOM. RWL
 ELEVON: .000 ALLIRON: .000 BDFLAP: DSB DS8
 SREF: 2.4218 SQ.FT.
 LREF: 14.2246 IN.
 BREF: 29.1001 IN.
 XREF: 32.3010 IN.
 YREF: 11.2500 IN.
 ZREF: 11.2500 IN.
 SCALE: .0000

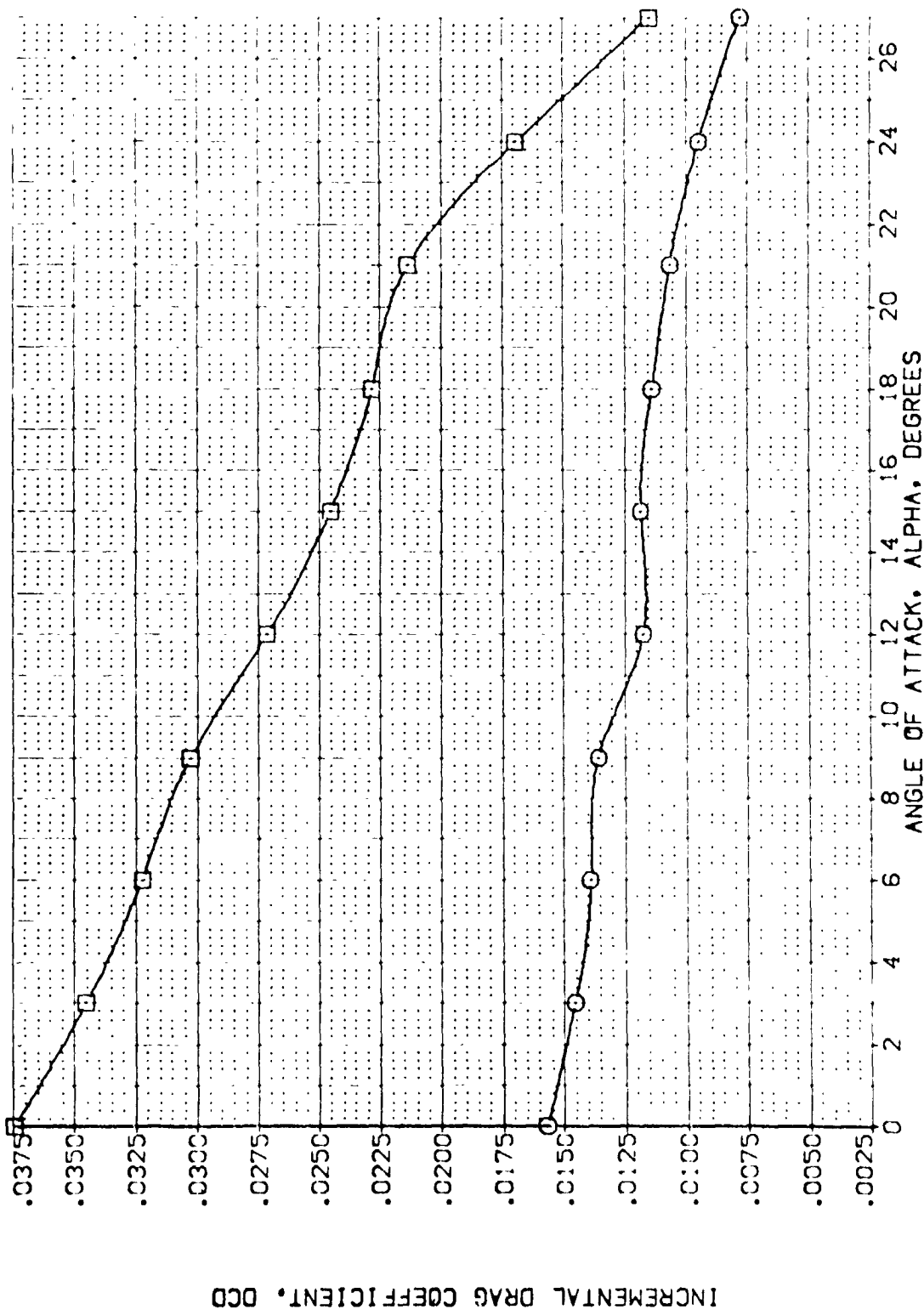


FIG. 9 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL: (DEMO11) (REF038)
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V NOM: RWL
 REFERENCE INFORMATION:
 SREF: 2.4219 SQ.FT.
 LREF: 14.2443
 EREF: 28.1001
 AREF: 32.1001
 YREF: 11.2001
 ZREF: 11.2001
 SCALE: 30.000
 DSB: 60.000
 BOFLAP: -11.700
 AILRON: .000
 ELEVON: .000
 DBFLAP: -11.700
 AILRON: .000
 ELEVON: .000
 YREF: 11.2001
 ZREF: 11.2001
 SCALE: 30.000

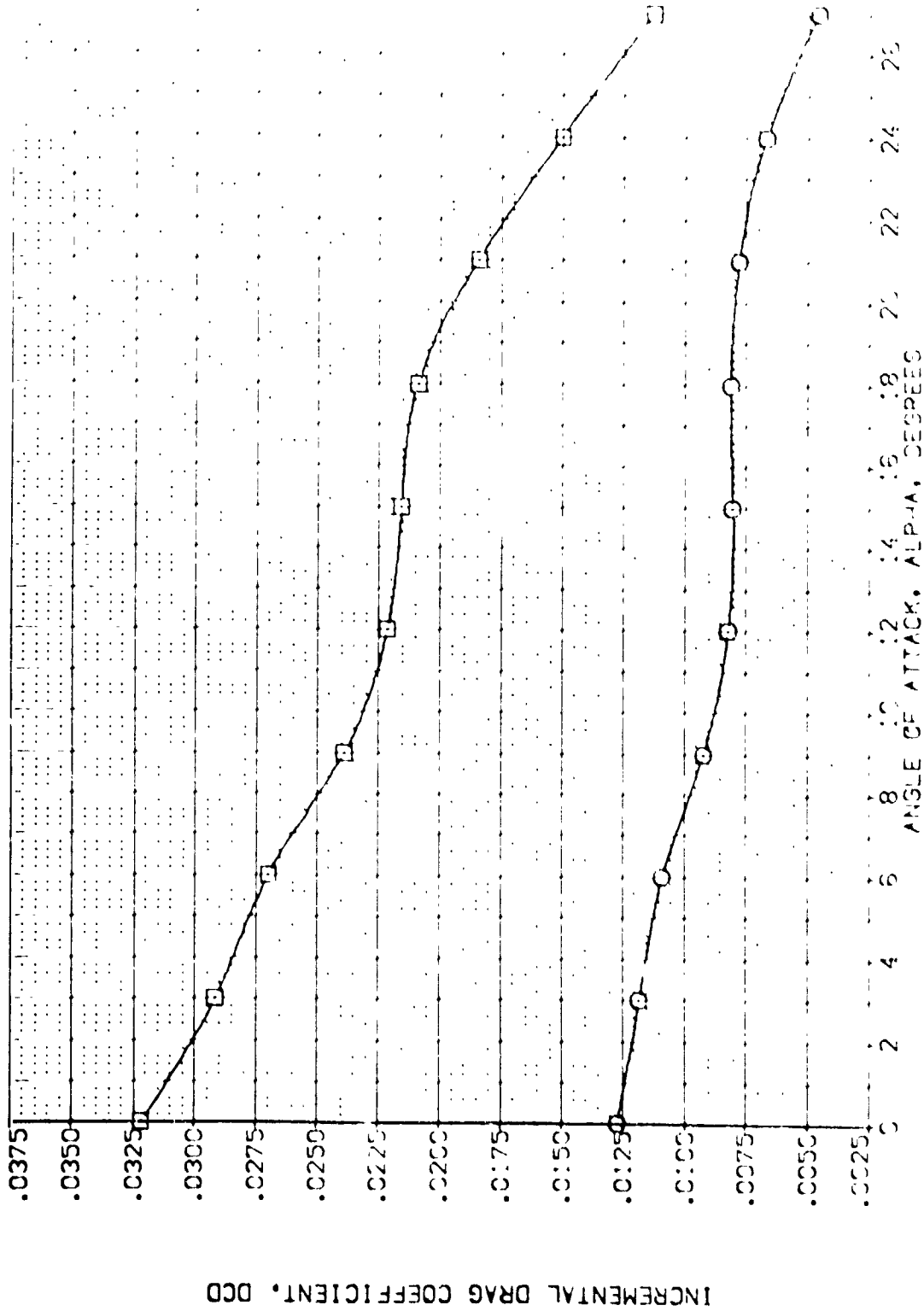


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00



DATA SET SYMBOL: (DEMO11) (VEK038)
 CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C M F VI V 10% RVL
 ARC 97-747 GAS38 B C M F VI V 10% RVL
 ELEVON: .000
 AIRLON: .000
 BOFLAP: -11.700
 DS8: 30.000
 SREF: 2.4210
 LREF: 14.2440
 BREF: 28.1024
 XMRP: 32.3010
 YMRP: .0000
 ZMRP: 11.2500
 SCALE: .0300
 REFERENCE INFORMATION: SC.FT.

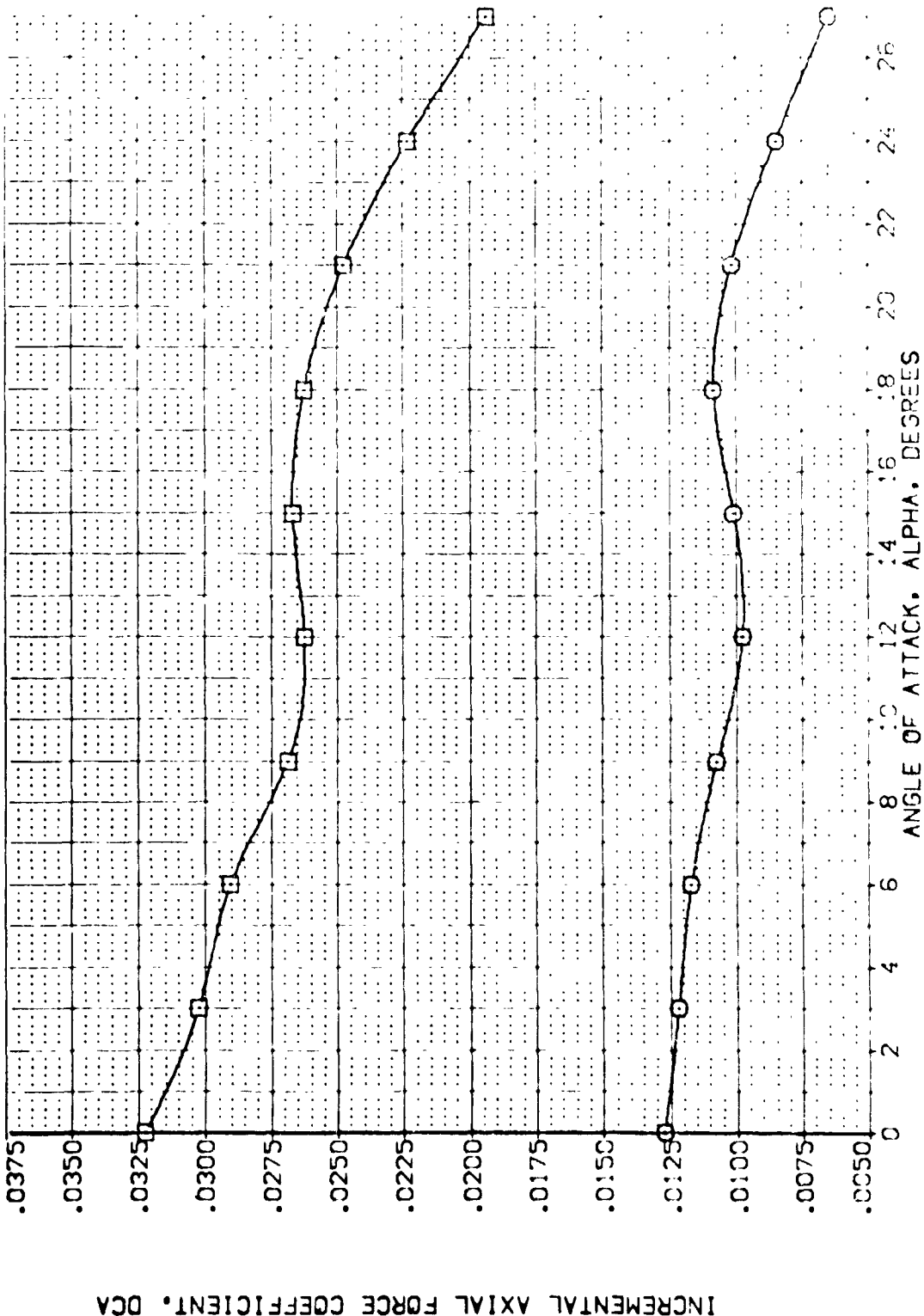


FIG. 9 SPEEDBRAKE EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL: (V:038) □
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V NOM: RNVL
 ELEVON: .000 .000
 AIRLON: .000 .000
 BOFLAP: -11.700 -11.700
 DSB: 30.000 60.000
 REFERENCE INFORMATION:
 SREF: 2.4210 SQ. FT.
 LREF: 14.2460 IN.
 BREF: 20.1004 IN.
 XMP0: 32.0010 IN.
 YMP0: .0000 IN.
 ZMP0: 11.2500 IN.
 SCALE: .0000 SCALE

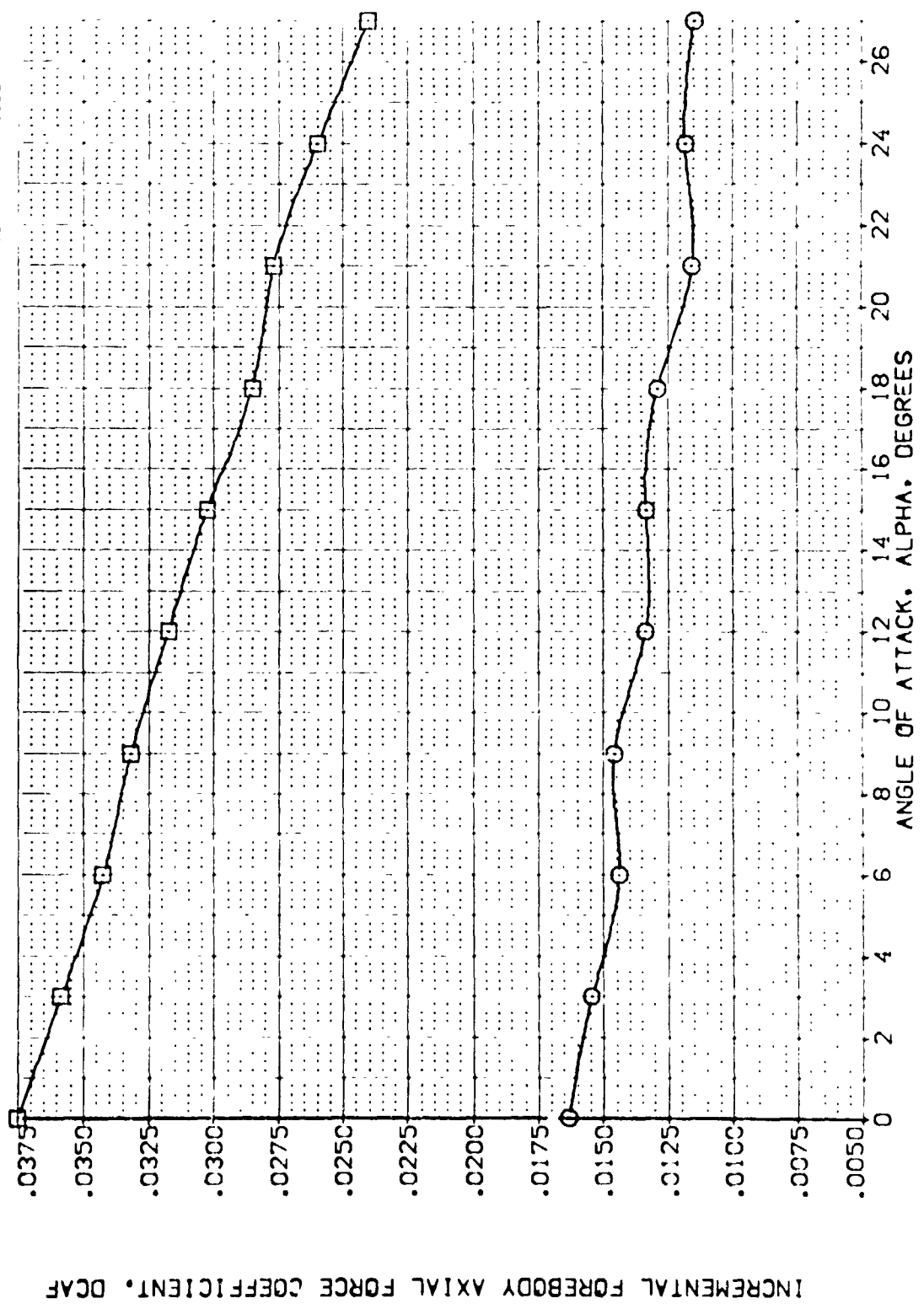


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: (06M011) (VEK008)
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C H F V1 V N04, RV/L
 REFERENCE INFORMATION: SREF 2.4210 50.17,
 LREF 14.7440 10,
 XREF 26.1000 10,
 YREF 32.0000 10,
 ZREF 11.0000 10,
 SCALE 11.0000 SCALE

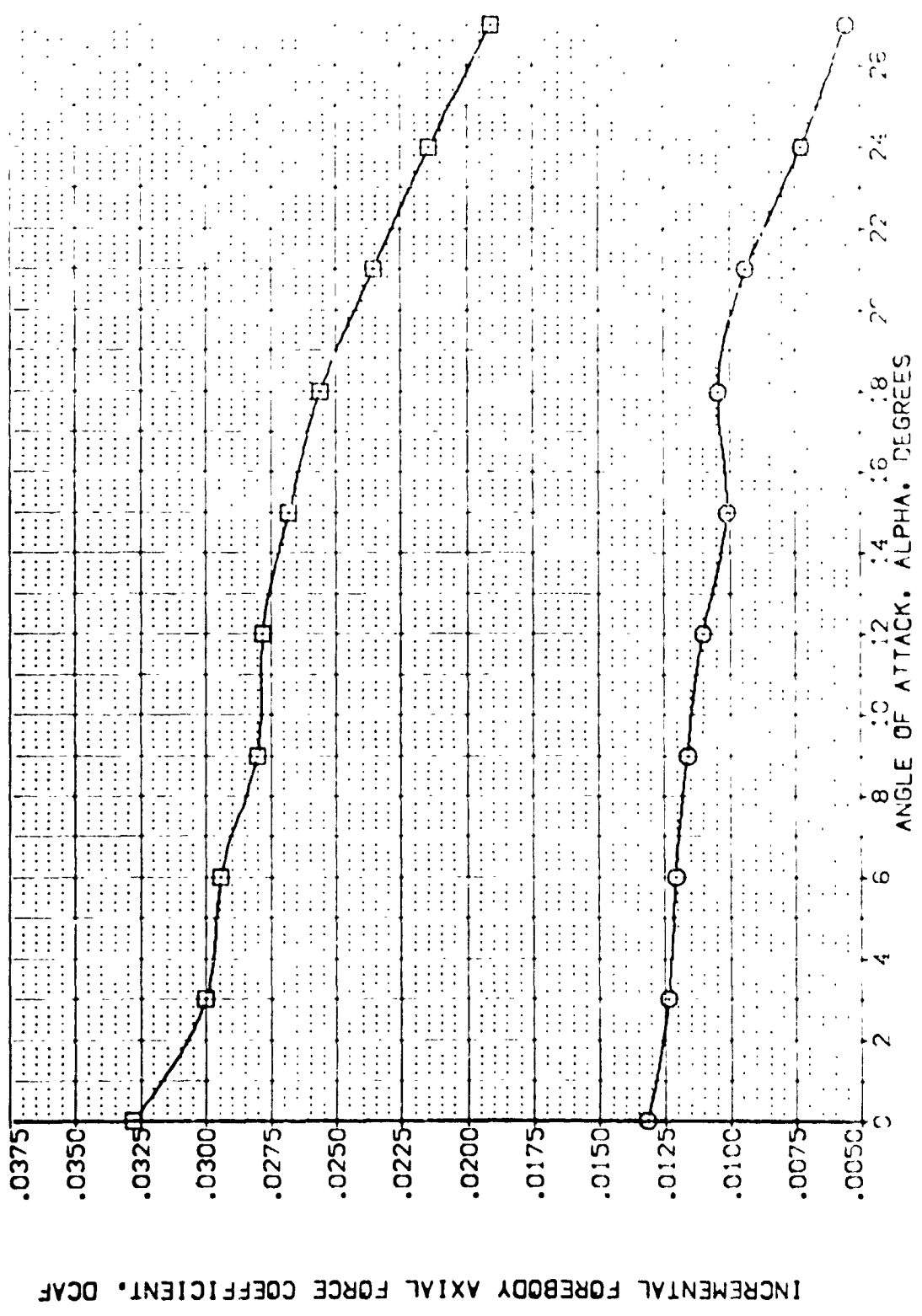


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	OSB	REFERENCE INFORMATION
(DEF011)	ARC 97-747 CAS33 B C M F V: V	.000	.000	-11.700	30.000	SREF 2.4210 50.FT.
(DEF036)	ARC 97-747 CAS33 B C M F V: V	.000	.000	-11.700	60.000	LREF 14.2440 100.FT.
						YREF 20.1000 100.FT.
						ZREF 32.1000 100.FT.
						SCALE 11.0000 100.FT.
						SCALE 10.000

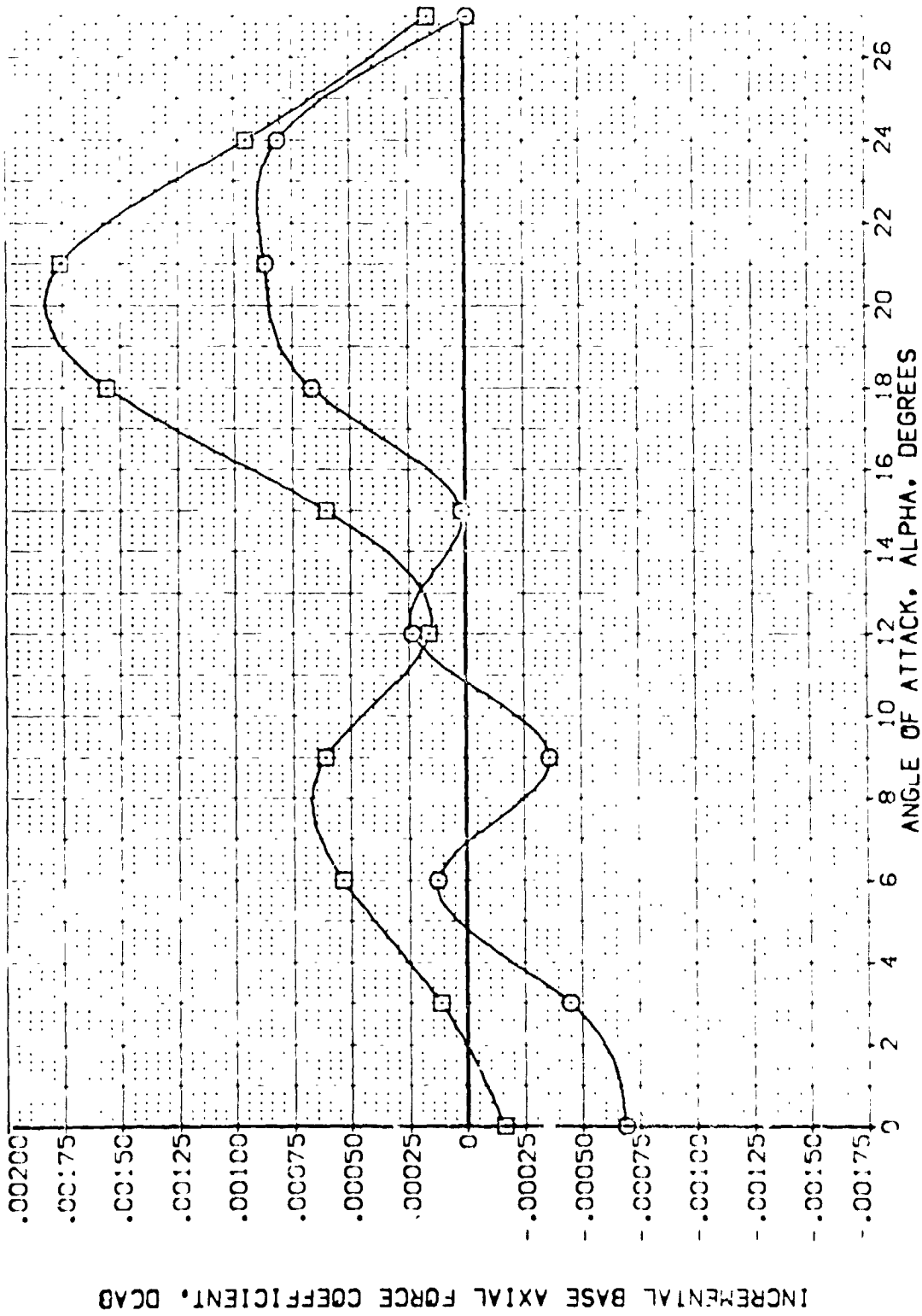


FIG. 9 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: (CEK011) (VER038) □
 CONFIGURATION DESCRIPTION: ARC 97-747 DAS3B B C M F VI V NOM: RV/L
 ELEVATION: .000 AILRON: .000 BDFLAP: -11.700 DSB: 30.000
 REFERENCE INFORMATION: SREF: 2.4210 SQ. FT.
 LREF: 14.2440 IN.
 CREF: 20.1004 IN.
 XMRP: 32.3316 IN.
 YMRP: .0000 IN.
 ZMRP: 11.2500 IN.
 SCALE: .0300

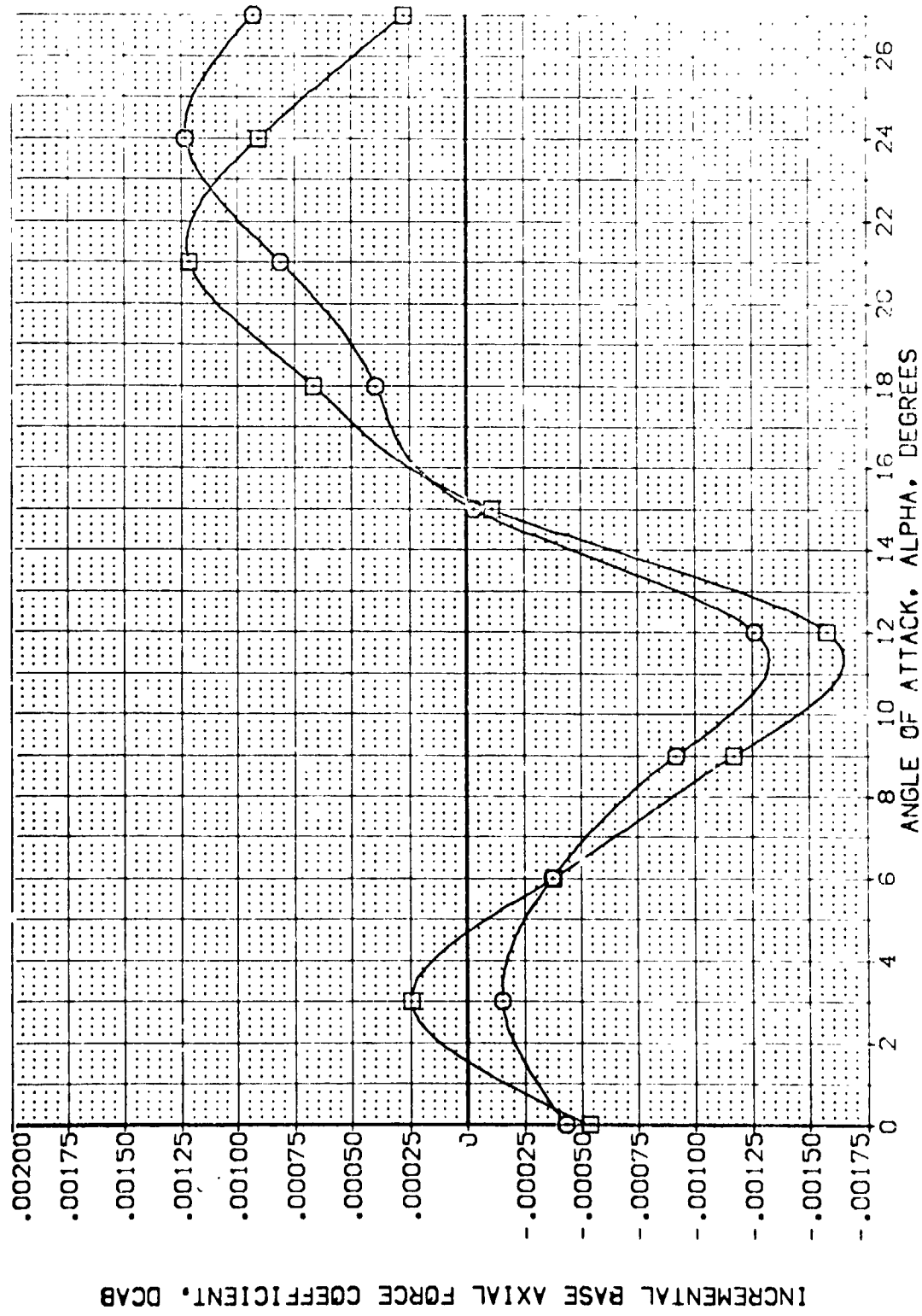


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	DSB	REFERENCE INFORMATION
{DEMO11}	ARC 97-747 CAS53 B C M F V1 V	.000	.000	-11.700	30.000	SREF 2.4210 SQ.FT.
{VEK038}	ARC 97-747 CAS53 B C M F V1 V	.000	.000	-11.700	60.000	LREF 14.2440 IN.
						DREF 28.1000 IN.
						XMRP 32.3010 IN.
						YMRP 0.0000 IN.
						ZMRP 11.2500 IN.
						SCALE .0300

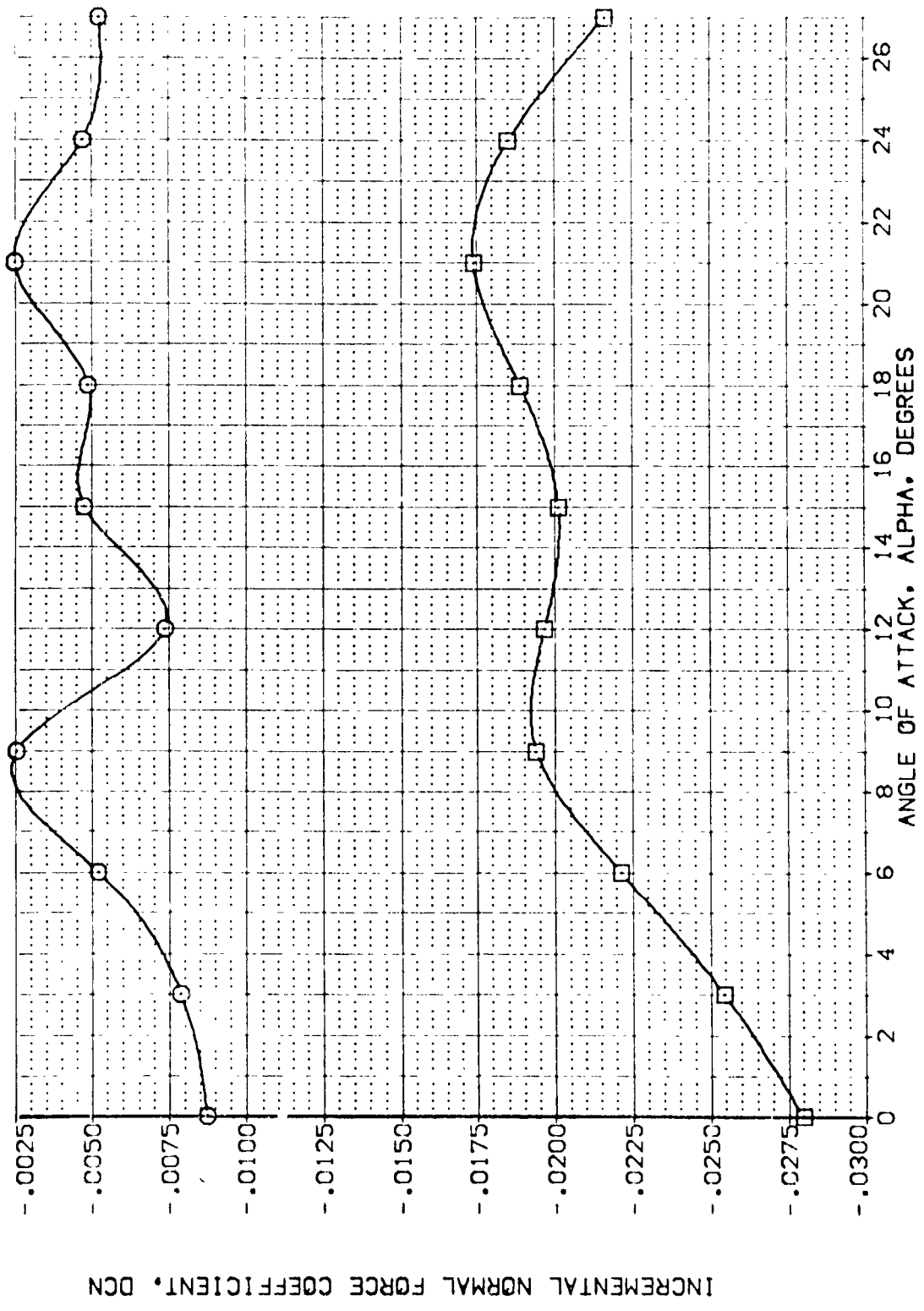


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (CER011) (VER038)
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V NMH: RNVL NMH: RNVL
 ARC 97-747 CAS38 B C M F VI V NMH: RNVL NMH: RNVL
 ELEVON: .000 .000 AILRON: .000 .000 BOFLAP: -11.700 -11.700 DSB: 30.000 60.000
 REFERENCE INFORMATION: SREF: 2.4210 SQ.FT. LIREF: 14.2440 IN. BREF: 28.1000 IN. XREF: 32.1000 IN. YMRP: .0000 IN. ZMRP: 11.2500 IN. SCALE: .0000

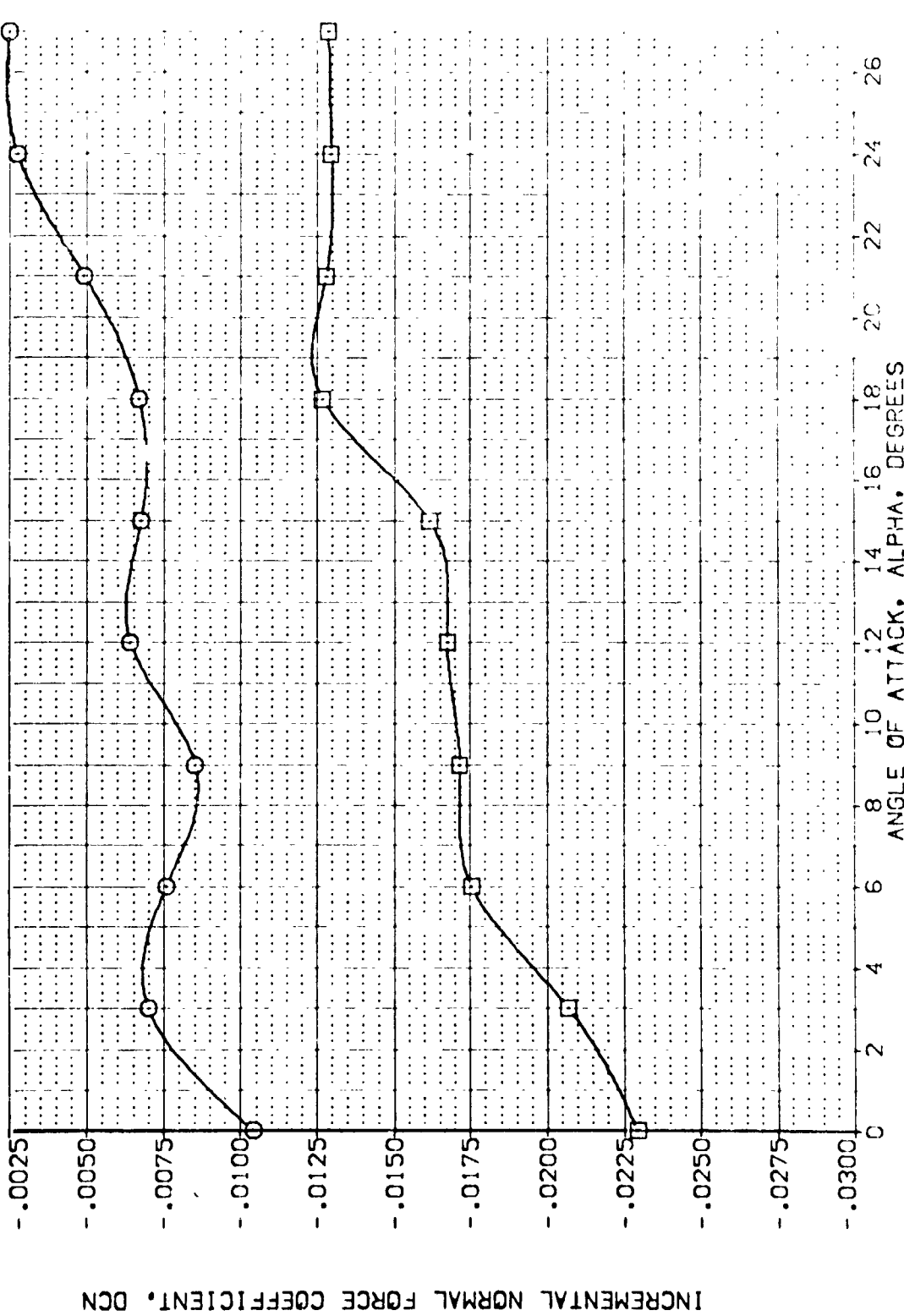


FIG. 9 SPEEDBRAKE EFFECTS

(B) VACH = 2.00

DATA SET SYMBOL: **CONF** CONFIGURATIVE DESCRIPTION: **REF** REFERENCE INFORMATION:
 (GROUP): **0** APC 97-747 CM523 B C M F V Y NOM: **RMV** SPEC: **2.4210** SQ.F.F.:
 (REPCN): **1** APC 97-747 CM523 B C M F V Y NOM: **RMV** LREF: **14.2440** L.F.F.:
 (REPCN): **1** APC 97-747 CM523 B C M F V Y NOM: **RMV** SREF: **28.1000** S.F.F.:
 (REPCN): **1** APC 97-747 CM523 B C M F V Y NOM: **RMV** AMPO: **52.1000** A.M.P.O.:
 (REPCN): **1** APC 97-747 CM523 B C M F V Y NOM: **RMV** ZMPD: **11.2500** Z.M.P.D.:
 (REPCN): **1** APC 97-747 CM523 B C M F V Y NOM: **RMV** SCALE: **0.0300** SCALE:

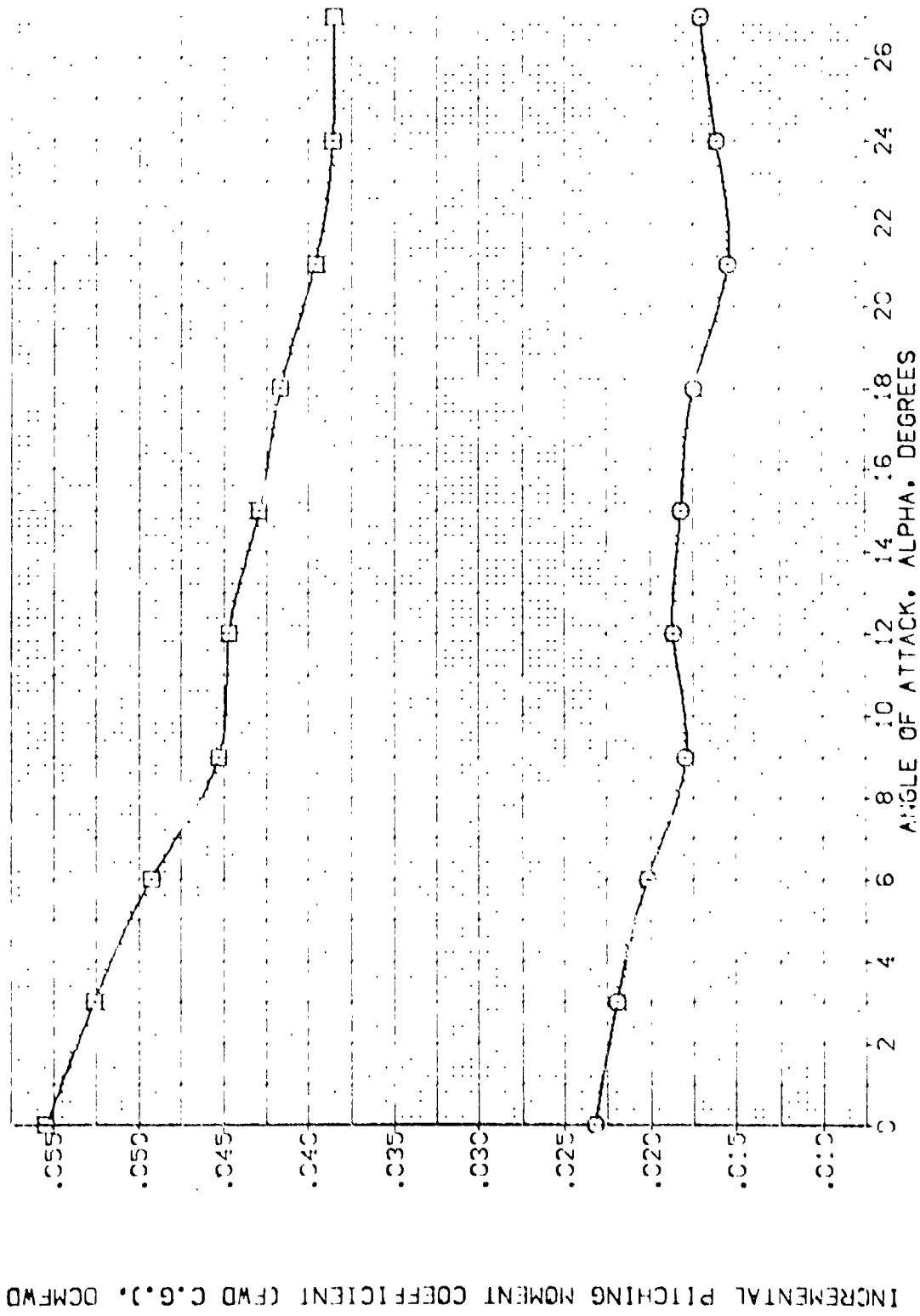


FIG. 9 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (DEKO:1) (VEK038)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V I V NOM: R/V L

ELEVATION: .000

AIRLIFT: .000

BOFLAP: -11.700

CSB: 30.000

REFERENCE INFORMATION: 2.4213 SCALF: 14.2443

SREF: 29.1007

LRIF: 32.1010

EREF: .0000

XMRP: .0000

YMRP: .0000

ZMRP: .0000

SCALE: 11.2500

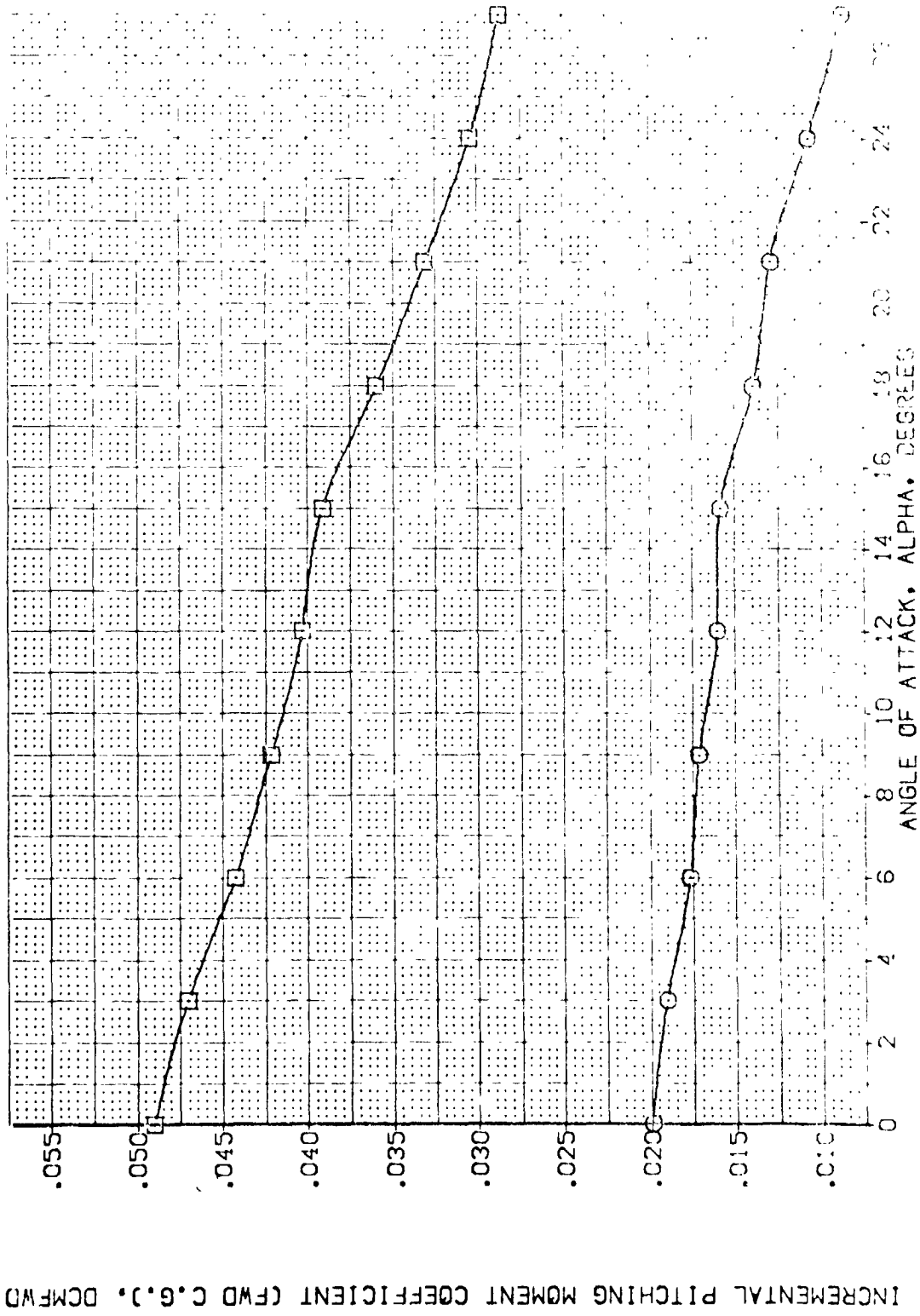


FIG. 9 SPEEDBRAKE EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	EOF LAP	DSB	REFERENCE INFORMATION
{ DEMO.1.1 }	ARC 97-747 CAS38 B C M F V I V	.000	.000	-11.700	30.000	2.4210 30. FT.
{ VEK38 }	ARC 97-747 CAS38 B C M F V I V	.000	.000	-11.700	60.000	14.2440 IN.
						23.1000 IN.
						32.1000 IN.
						11.2500 IN.
						SCALE

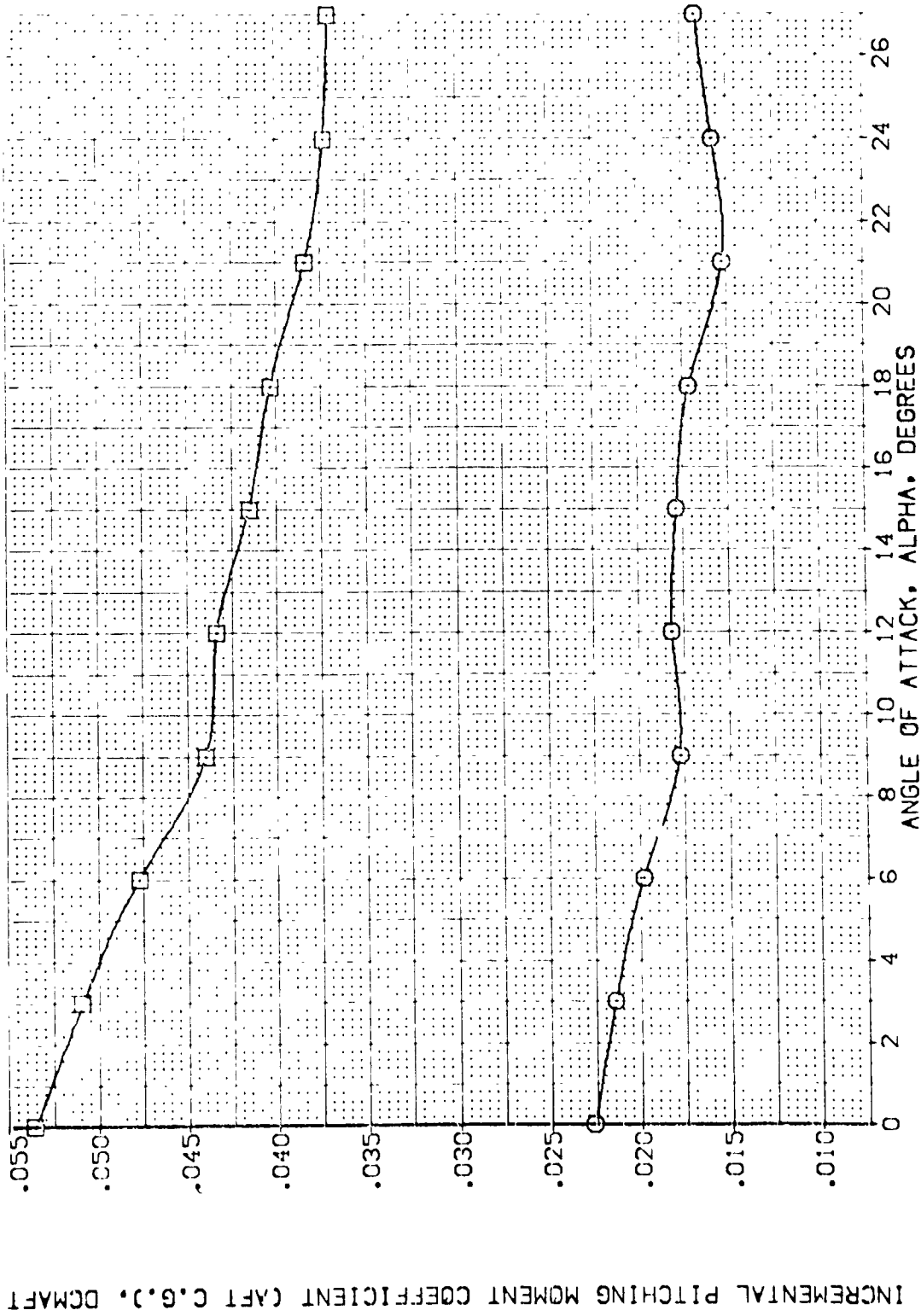


FIG. 9 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL: (7EPC38)
 CONFIGURATION DESCRIPTION: ARC 97-747 BA538 B C M F V I V NOM. RVUL
 REFERENCE INFORMATION: SPEE 2.4210 SCALF. 1.0000
 ELEVON: .000 .000
 AIRRGN: .000
 BDFLAP: -11.700
 DS8: 20.000
 60.000
 XMRD: 1.0000
 YMRD: 1.0000
 ZMRD: 1.0000
 SCALE: 1.0000

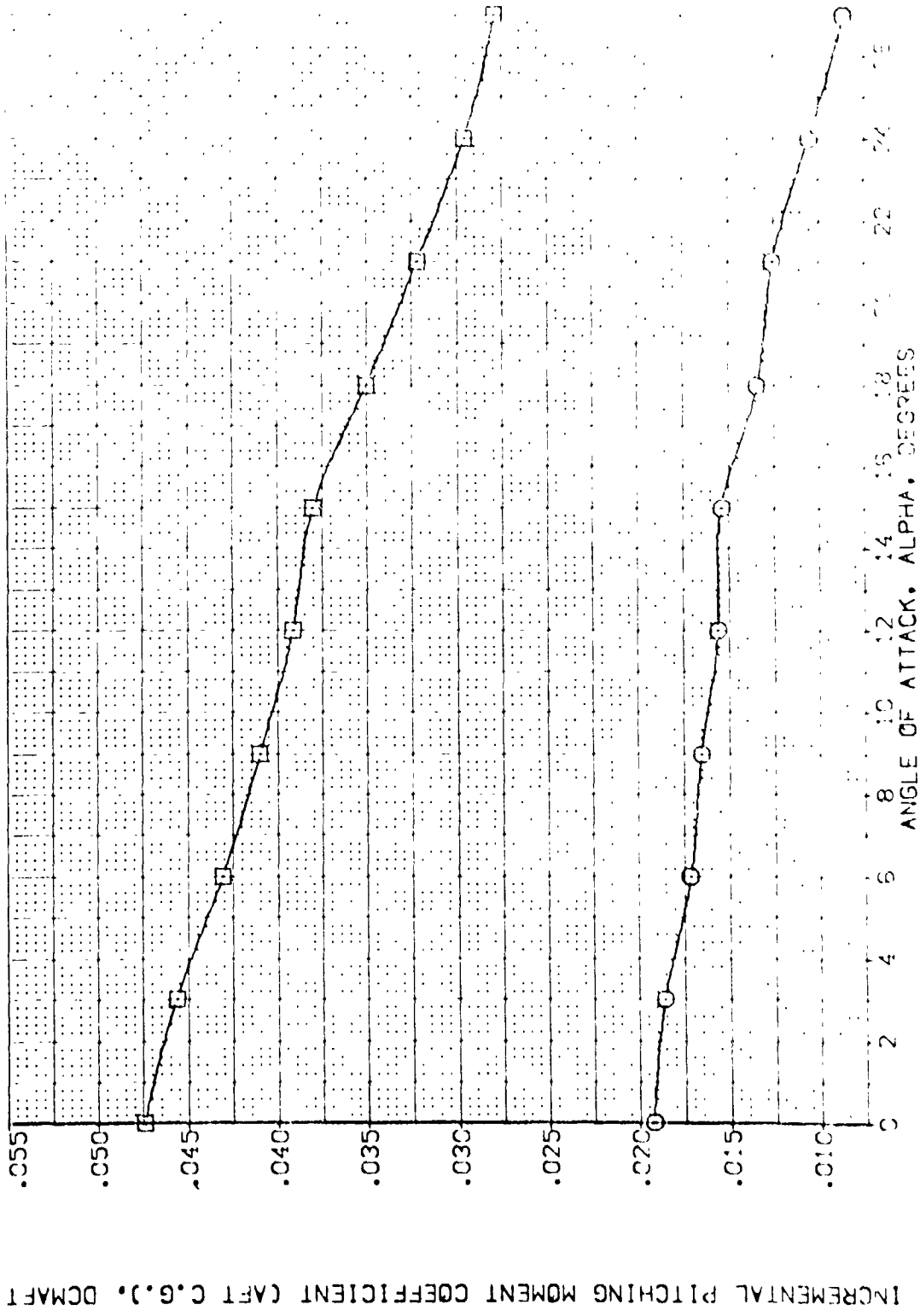


FIG. 9 SPEEDBRAKE EFFECTS
 (B) MAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

0	ARC 97-747	2A53B	B	C	M	F	V	V	NON	RVUL	RVUL
1	ARC 97-747	2A53B	B	C	M	F	V	V	NON	RVUL	SEAL.EL
2	ARC 97-747	2A53B	B	C	M	F	V	V	NON	RVUL	SEAL.EL
3	ARC 97-747	2A53B	B	C	M	F	V	V	NON	RVUL	SEAL.EL

ELEVON

.000	.000
.000	.000
.000	.000
.000	.000

AILLON

.000	.000
.000	.000
.000	.000
.000	.000

BOFLAP

16.300	16.300
16.300	16.300
16.300	16.300
16.300	16.300

SPOBRK

55.000	55.000
55.000	55.000
55.000	55.000
55.000	55.000

REFERENCE INFORMATION

SREF	4210	SO.FT.
LREF	14.740	IN.
BREF	20.1054	IN.
YMP	32.0000	IN.
ZMP	11.2000	IN.
SCALE	.0000	SCALE

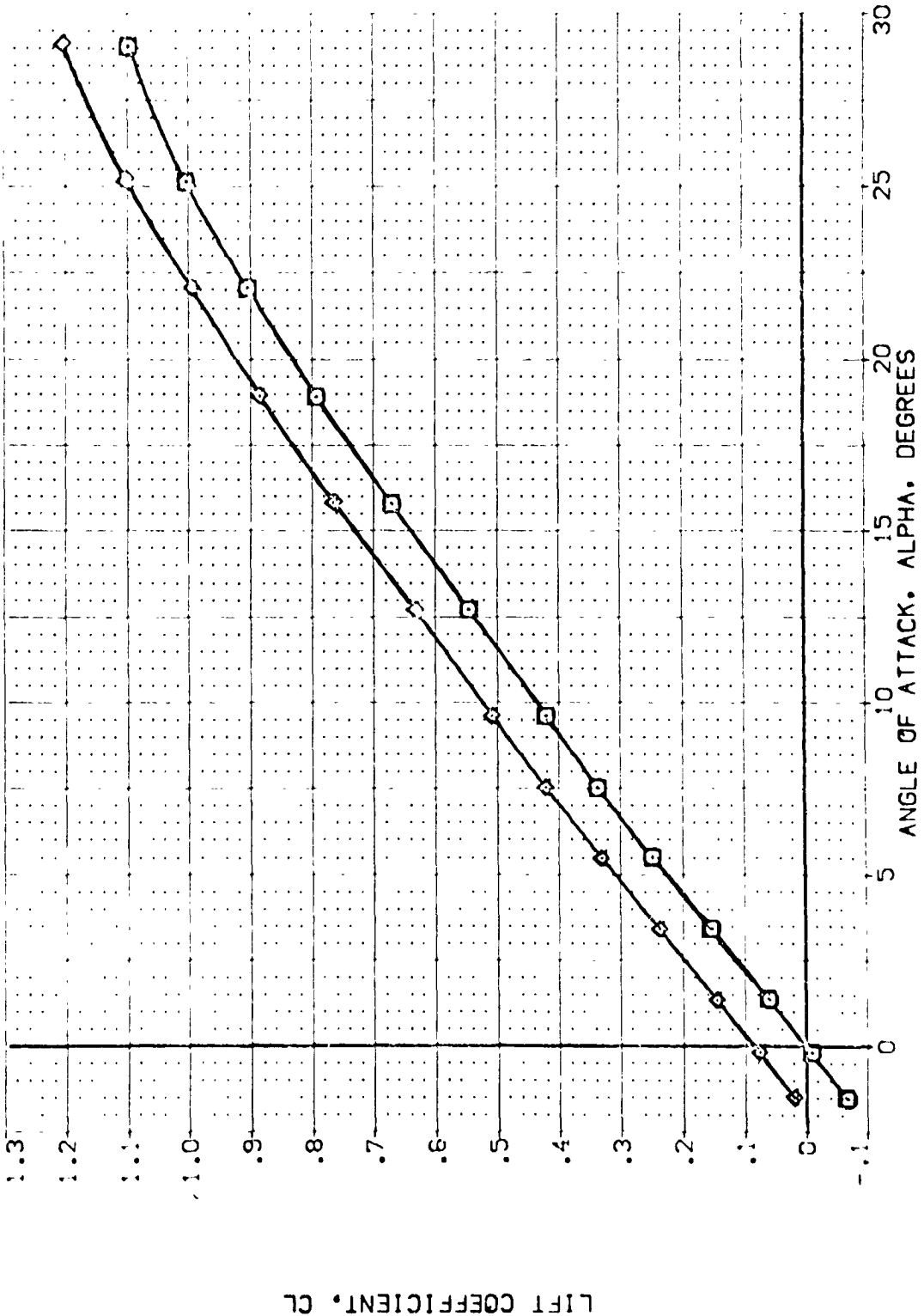


FIG. 10 SEALED ELEVON SPLIT EFFECTS

Ca)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RVL	SEAL. EL	ELEVON	ATLIRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEP010)	APC 97-747 CA553 B C M F V	V			.000	.000	18.000	55.000	SREF 2.4210 SQ. FT.
(TEP020)	APC 97-747 CA553 B C M F V	V			.000	.000	18.000	55.000	LREF 14.1210 IN.
(TEP030)	APC 97-747 CA553 B C M F V	V			15.000	.000	18.000	55.000	FREF 29.1210 IN.
(TEP040)	APC 97-747 CA553 B C M F V	V			15.000	.000	18.000	55.000	MREF 32.1210 IN.
(TEP049)	APC 97-747 CA553 B C M F V	V			15.000	.000	18.000	55.000	ZREF 11.1210 IN.
									SCALE 1:10000

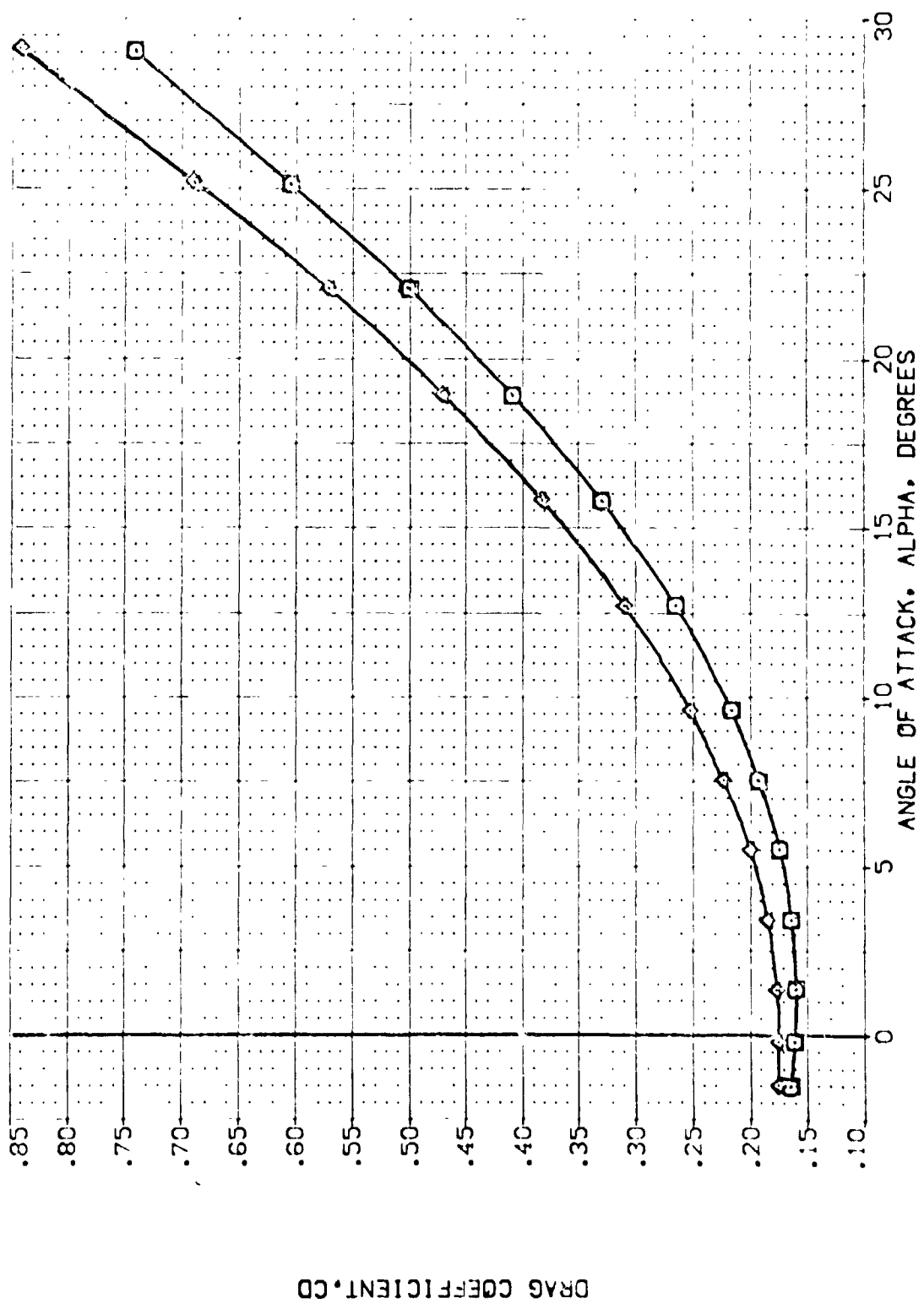


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RAVL	SEAL	ELEVON	AIRLON	BOFLAP	SPODBRK	REFERENCE INFORMATION
(TEKD10)	ARC 97-747 D4S38 B C M F VI V	NOM.	RAVL	SEAL	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEKD50)	ARC 97-747 D4S38 B C M F VI V	NOM.	RAVL	SEAL	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEKD08)	ARC 97-747 D4S38 B C M F VI V	NOM.	RAVL	SEAL	15.000	.000	16.300	55.000	BREF 28.1004 IN.
(TEKD19)	ARC 97-747 D4S38 B C M F VI V	NOM.	RAVL	SEAL	15.000	.000	16.300	55.000	XMRP 32.5010 IN.
									YMRP 0.0000 IN.
									ZMRP 11.2500 IN.
									SCALE .0000 SCALE

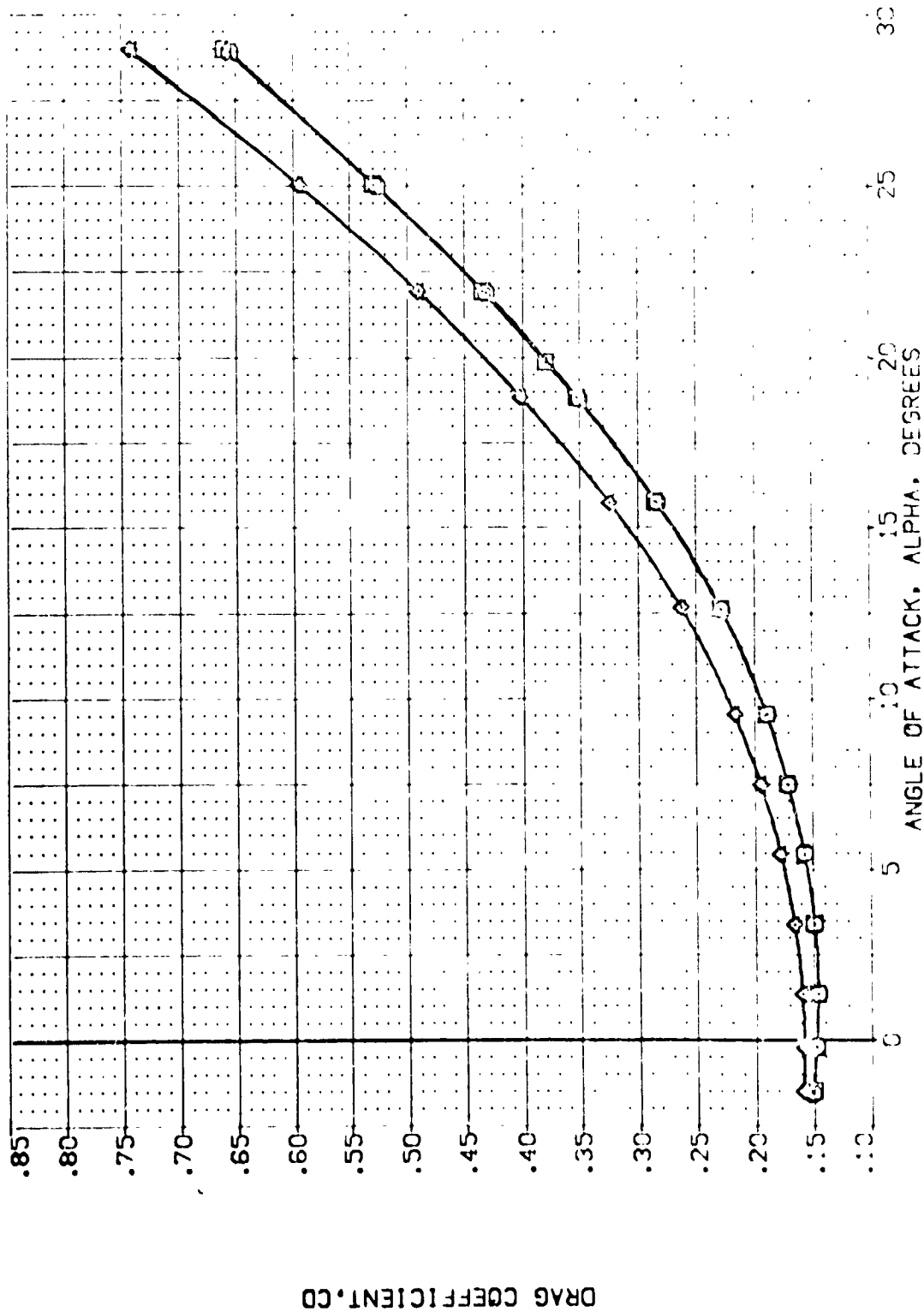


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RVAL	SEAL.EL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TK010)	ARC 97-747 CA503 B C M F V I V				.000	.000	16.300	55.000	SPEED 2.4213 SQ.FT.
(T11050)	ARC 97-747 CA503 B C M F V I V				.000	.000	16.300	55.000	LREF 14.2140
(T11073)	ARC 97-747 CA503 B C M F V I V				.000	.000	16.300	55.000	DRIF 29.1001
(T11049)	ARC 97-747 CA503 B C M F V I V				15.000	.000	16.300	55.000	YMRP 92.5010
									ZMRP .0000
									SCALE 11.2000
									SCALE .0000

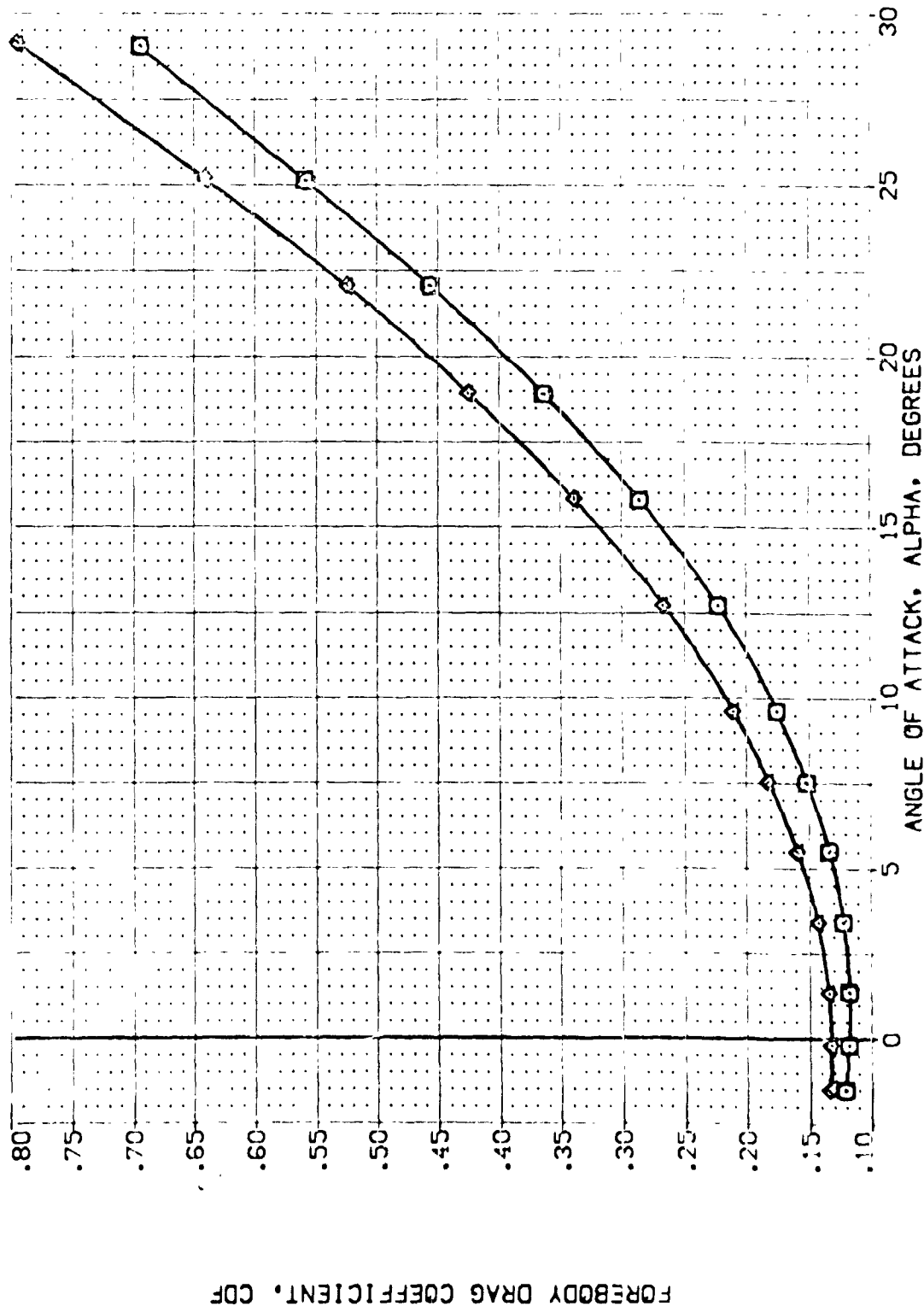
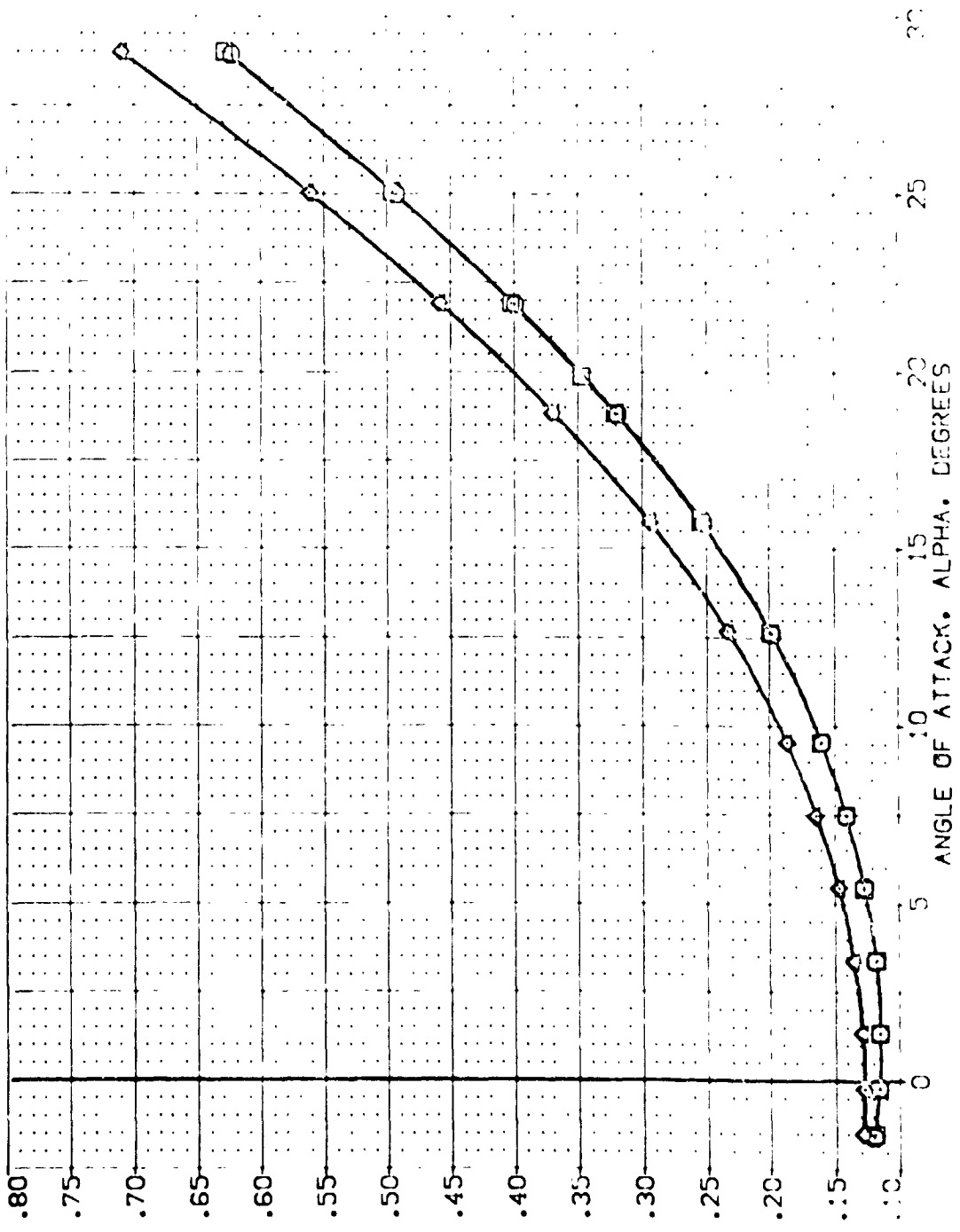


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	SEAL	EL	ELEVON	AIR/RON	BO/LAP	SPOBRK	SREF	REFERENCE INFORMATION
(TEK010)	ARC 97-747 DAS33 B C M F VI V					.000	.000	16.300	55.000	2.4210	SC.FY.
(TEK011)	ARC 97-747 DAS33 B C M F VI V					.000	.000	16.300	55.000	14.2420	IN.
(TEK012)	ARC 97-747 DAS33 B C M F VI V					15.000	.000	16.300	55.000	28.1000	IN.
(TEK013)	ARC 97-747 DAS33 B C M F VI V					15.000	.000	16.300	55.000	37.5010	IN.
(TEK019)	ARC 97-747 DAS33 B C M F VI V									.0000	IN.
										11.0000	SCALE



FOREBODY DRAG COEFFICIENT, CDF

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RV/L	SEAL, EL	ELEVON	AIRFOIL	BD/LAP	SPOON	REFERENCE INFORMATION
(1) (1) (1) (1)	APC 0107 24533 B C M E V	1	RV/L	SEAL, EL	.000	.000	16.300	55.000	SREF 2.4210 SQ. FT.
(2) (2) (2) (2)	APC 0107 24533 B C M E V	2	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(3) (3) (3) (3)	APC 0107 24533 B C M E V	3	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(4) (4) (4) (4)	APC 0107 24533 B C M E V	4	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(5) (5) (5) (5)	APC 0107 24533 B C M E V	5	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(6) (6) (6) (6)	APC 0107 24533 B C M E V	6	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(7) (7) (7) (7)	APC 0107 24533 B C M E V	7	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(8) (8) (8) (8)	APC 0107 24533 B C M E V	8	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(9) (9) (9) (9)	APC 0107 24533 B C M E V	9	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(10) (10) (10) (10)	APC 0107 24533 B C M E V	10	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(11) (11) (11) (11)	APC 0107 24533 B C M E V	11	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(12) (12) (12) (12)	APC 0107 24533 B C M E V	12	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(13) (13) (13) (13)	APC 0107 24533 B C M E V	13	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(14) (14) (14) (14)	APC 0107 24533 B C M E V	14	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(15) (15) (15) (15)	APC 0107 24533 B C M E V	15	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(16) (16) (16) (16)	APC 0107 24533 B C M E V	16	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(17) (17) (17) (17)	APC 0107 24533 B C M E V	17	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(18) (18) (18) (18)	APC 0107 24533 B C M E V	18	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(19) (19) (19) (19)	APC 0107 24533 B C M E V	19	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(20) (20) (20) (20)	APC 0107 24533 B C M E V	20	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(21) (21) (21) (21)	APC 0107 24533 B C M E V	21	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(22) (22) (22) (22)	APC 0107 24533 B C M E V	22	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(23) (23) (23) (23)	APC 0107 24533 B C M E V	23	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(24) (24) (24) (24)	APC 0107 24533 B C M E V	24	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(25) (25) (25) (25)	APC 0107 24533 B C M E V	25	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(26) (26) (26) (26)	APC 0107 24533 B C M E V	26	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(27) (27) (27) (27)	APC 0107 24533 B C M E V	27	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(28) (28) (28) (28)	APC 0107 24533 B C M E V	28	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(29) (29) (29) (29)	APC 0107 24533 B C M E V	29	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000
(30) (30) (30) (30)	APC 0107 24533 B C M E V	30	RV/L	SEAL, EL	.000	.000	16.300	55.000	SPR 1.0000

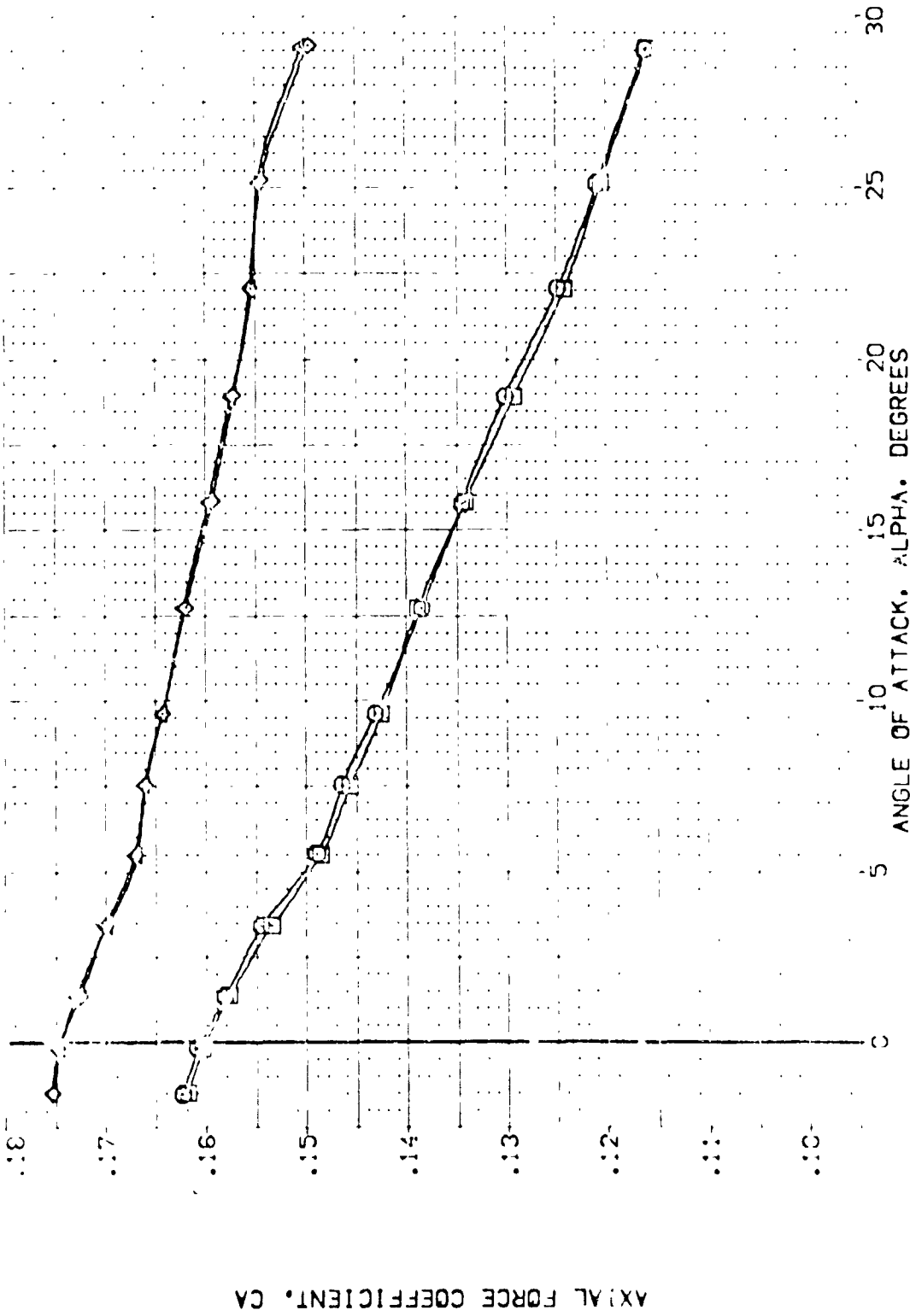


FIG. 10 SEALED ELEVON SPLIT EFFECTS

CA/MACH = 1.60

AXIAL FORCE COEFFICIENT, CA

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI:	RVAL	SEAL.EL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 GAS30 B C M F VI V	NOI:	RVAL	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210
(TEK050)	ARC 97-747 GAS30 B C M F VI V	NOI:	RVAL	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440
(TEK000)	ARC 97-747 GAS33 B C M F VI V	NOI:	RVAL	SEAL.EL	15.000	.000	16.300	55.000	BREF 23.1000
(TEK049)	ARC 97-747 GAS33 B C M F VI V	NOI:	RVAL	SEAL.EL	15.000	.000	16.300	55.000	XMAP 92.0000
									YMRP .0000
									ZMRP 11.7000
									SCALE .0500

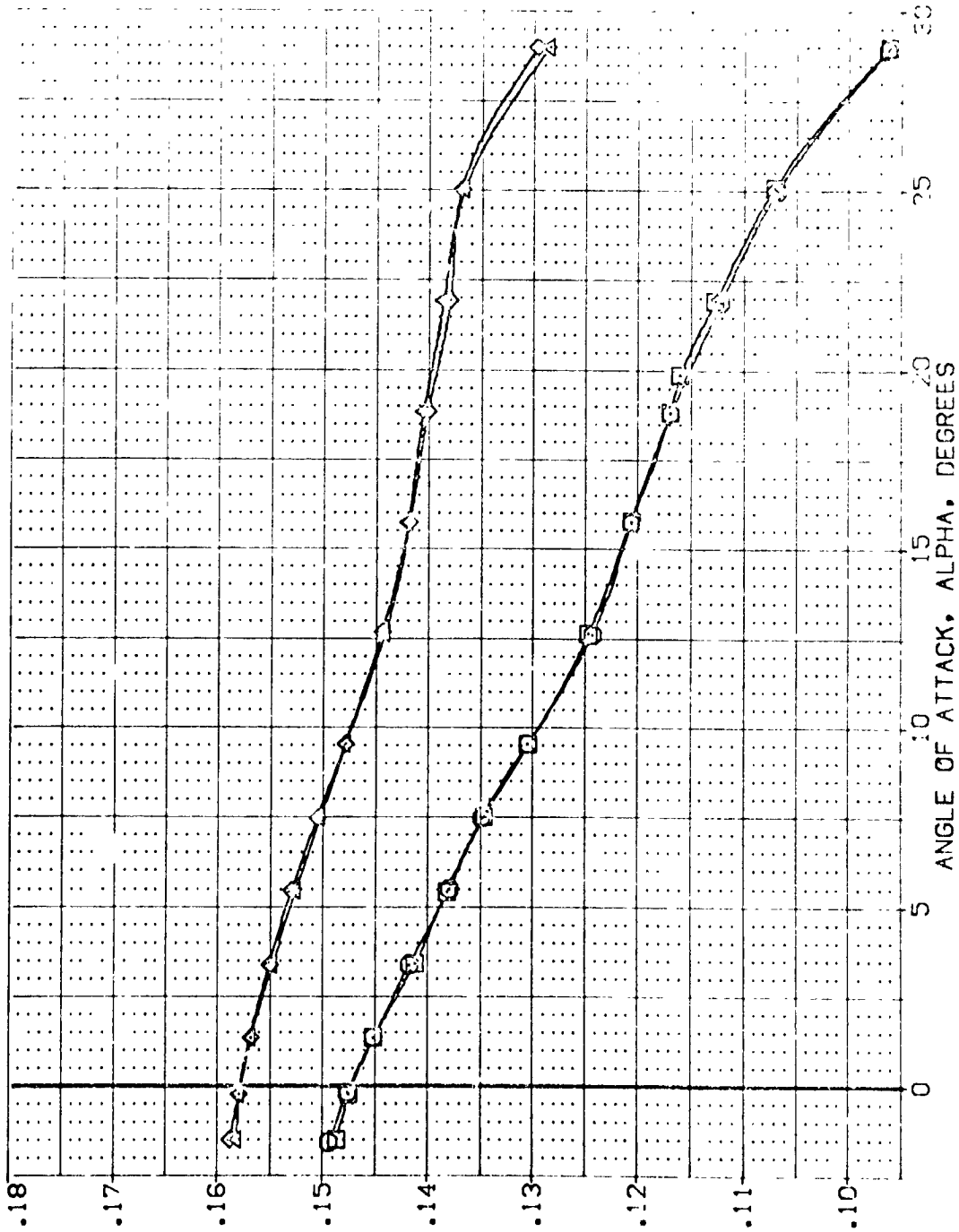
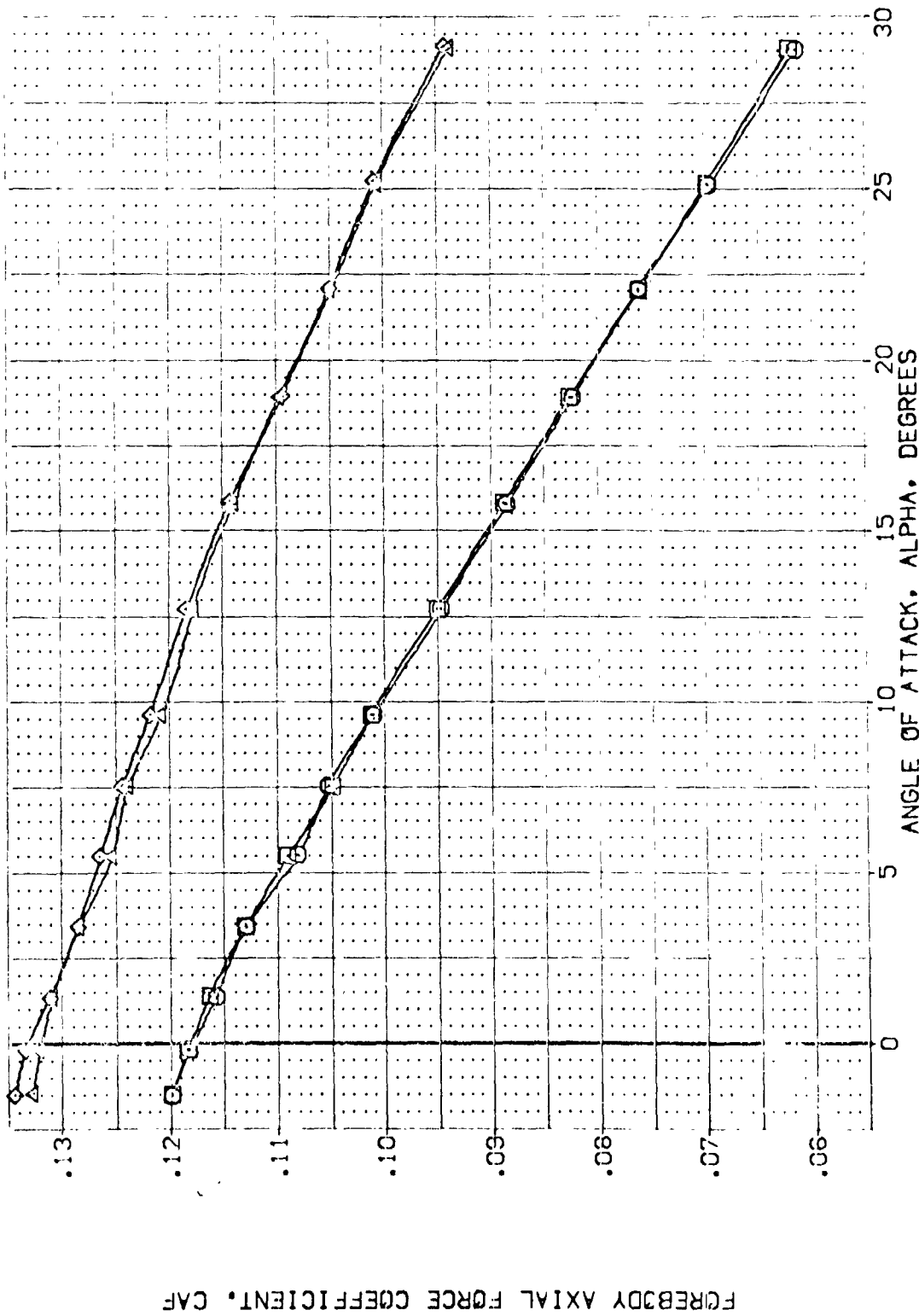


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(8)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AIRLON BOFLAP SPOBRK REFERENCE INFORMATION SC.F.T.

(1EPC010)	ARC 97-747 CA503 B C M F VI V	.000	.000	16.300	55.000	SREF	2.4210
(1EPC011)	ARC 97-747 CA503 B C M F VI V	.000	.000	16.300	55.000	LREF	14.2740
(1EPC012)	ARC 97-747 CA503 B C M F VI V	.000	.000	16.300	55.000	EREF	29.1100
(1EPC013)	ARC 97-747 CA503 B C M F VI V	15.000	.000	16.300	55.000	XREF	32.1010
(1EPC019)	ARC 97-747 CA503 B C M F VI V	15.000	.000	16.300	55.000	YREF	.0000
						ZREF	11.2600
						SCALE	.0000



FOREBODY AXIAL FORCE COEFFICIENT, CAF

ANGLE OF ATTACK, ALPHA, DEGREES

F_b, 10 SEALED ELEVON SPLIT EFFECTS

(C) VACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	SEAL.EL	ELEVON	AIRLRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{TEK010}	ARC 97-747 OAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.421C
{TEK050}	ARC 97-747 OAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	.000	.000	16.300	55.000	LREF 14.214C
{TEK003}	ARC 97-747 OAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	15.000	.000	16.300	55.000	BRF 20.100C
{TEK043}	ARC 97-747 OAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	15.000	.000	16.300	55.000	XMRP 32.301C
									YMRP .000C
									ZMRP 11.250C
									SCALE .0300

FOREBODY AXIAL FORCE COEFFICIENT, C_{AF}

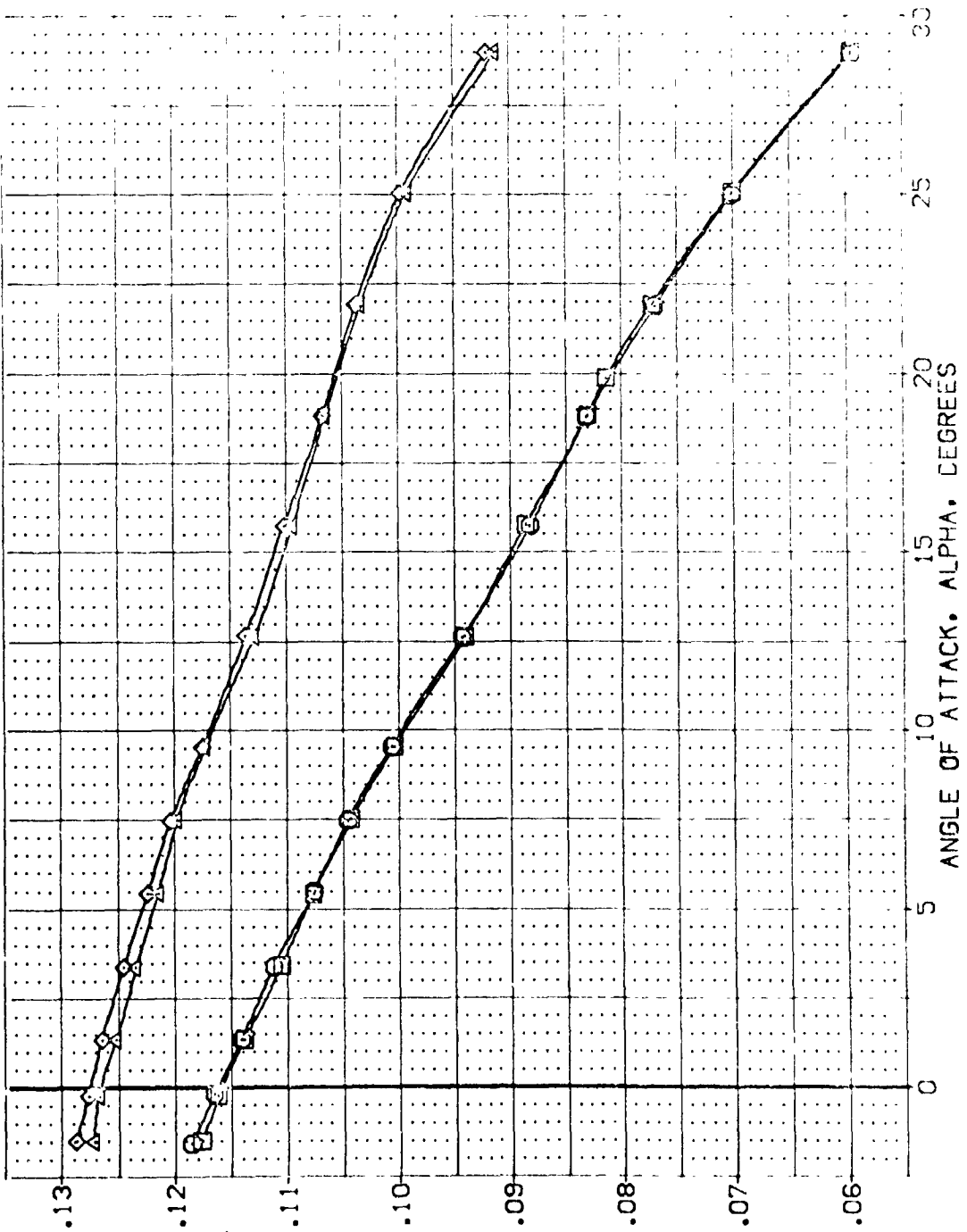


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(MACH = 2.00)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI.	RN/L	SEAL.EL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(1)E(0.0)	ARC 97-747 CAS33 B C M F VI V	NDM.	RN/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(2)E(0.0)	ARC 97-747 CAS33 B C M F VI V	NDM.	RN/L	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440 IN.
(3)E(0.0)	ARC 97-747 CAS33 B C M F VI V	NDM.	RN/L	SEAL.EL	15.000	.000	16.300	55.000	BREF 79.1004 IN.
(4)E(0.0)	ARC 97-747 CAS33 B C M F VI V	NDM.	RN/L	SEAL.EL	15.000	.000	16.300	55.000	VMRP 92.0010 IN.
									ZMRP .0000 IN.
									SCALE 11.0000 IN.

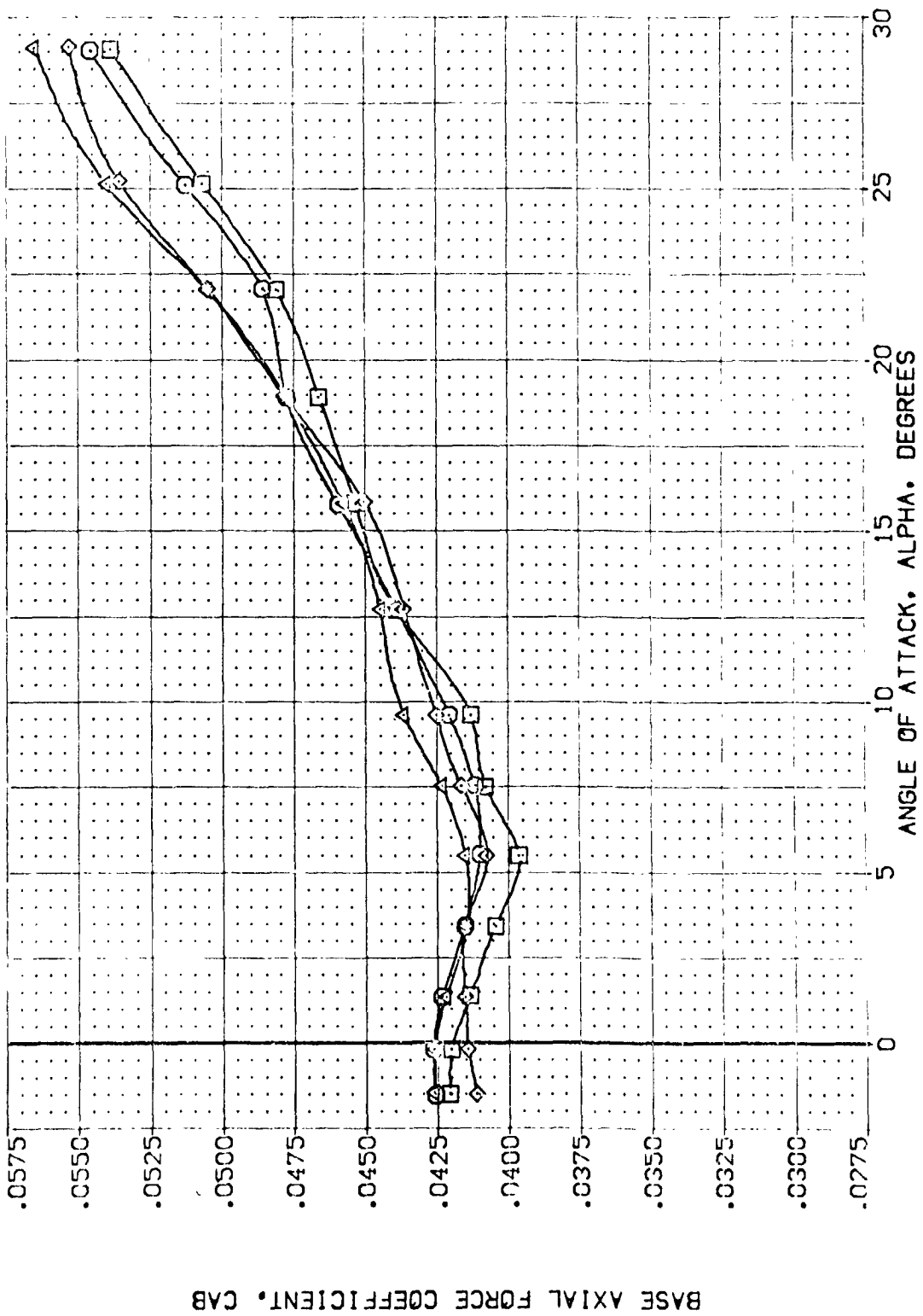


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RNVL	SEAL.EL	ELEVON	AILRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 OAS38 B C M F VI V	NON.	RNVL	SEAL.EL	.000	.000	16.000	55.000	SREF 2.4210
(TEK050)	ARC 97-747 OAS33 B C M F VI V	NON.	RNVL	SEAL.EL	.000	.000	16.000	55.000	LREF 14.2440
(TEK003)	ARC 97-747 OAS33 B C M F VI V	NON.	RNVL	SEAL.EL	15.000	.000	16.000	55.000	XPREF 20.1004
(TEK049)	ARC 97-747 OAS38 B C M F VI V	NON.	RNVL	SEAL.EL	15.000	.000	16.000	55.000	YMREF 32.0010
									ZMREF 11.0000
									SCALE

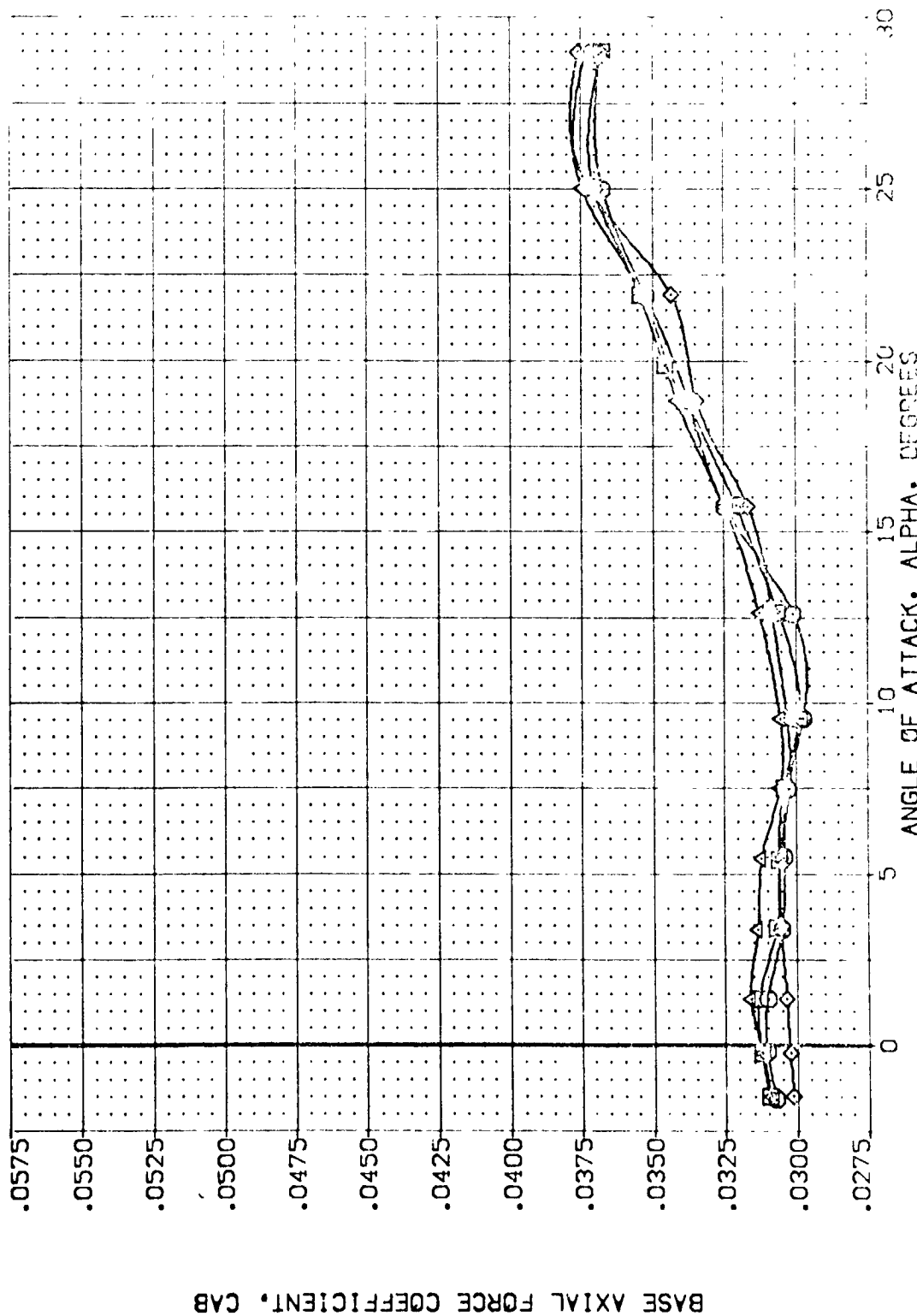


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOI.	RN/L	SEAL.EL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 C4523 B C M F VI V	NON.	RN/L	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(TEK050)	ARC 97-747 C4523 B C M F VI V	NON.	RN/L	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440
(TEK003)	ARC 97-747 C4523 B C M F VI V	NON.	RN/L	SEAL.EL	15.000	.000	16.300	55.000	BREF 26.1000
(TEK049)	ARC 97-747 C4523 B C M F VI V	NON.	RN/L	SEAL.EL	15.000	.000	16.300	55.000	XMRP 32.0010
									XMRP 11.0000
									ZMRP 11.2000
									SCALE

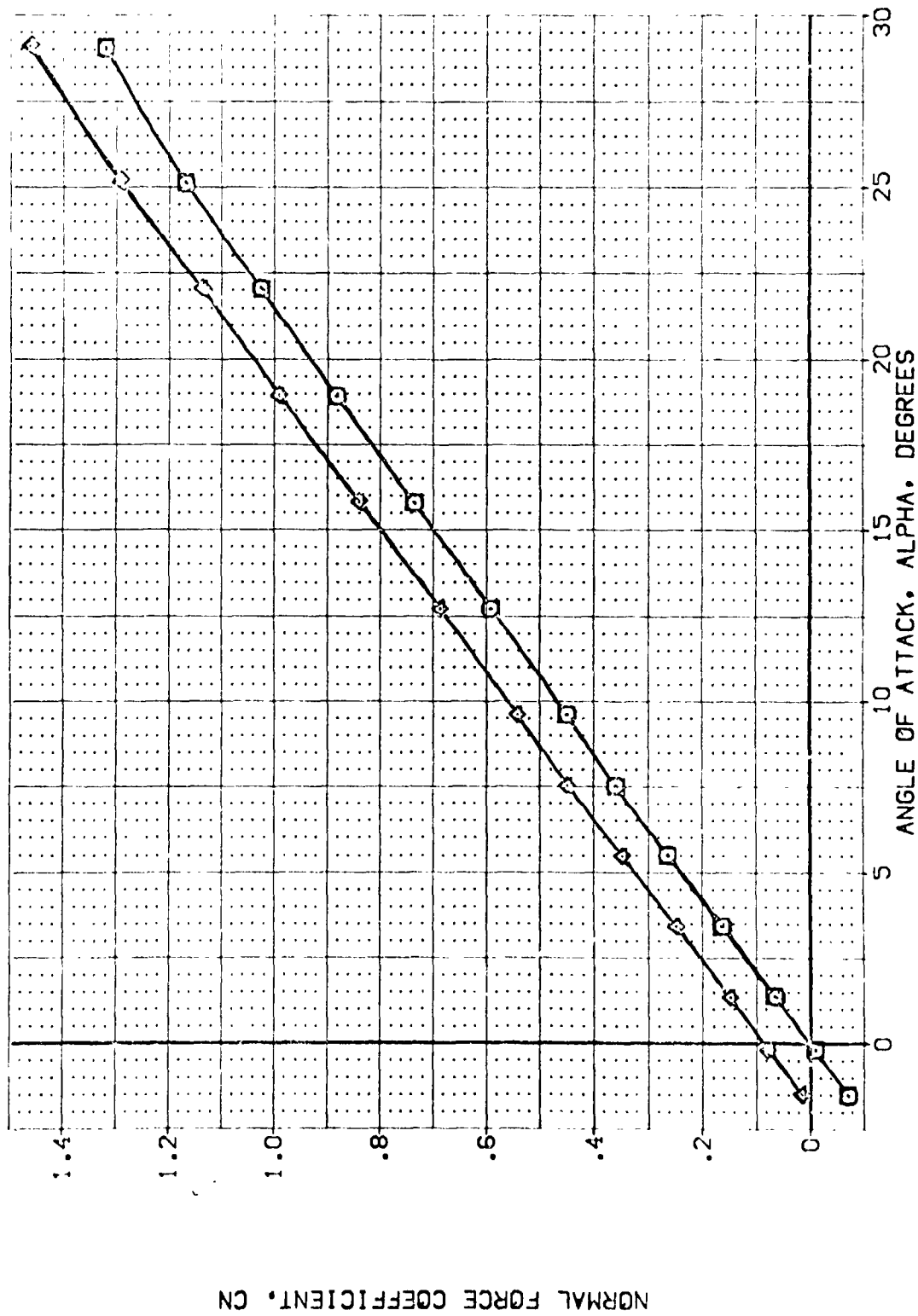


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION (G)

[TEK010]	ARC 57-747 DAS38 B C M F V1 V	SREF	2.4210	SO.F.F.
[TEK020]	ARC 57-747 DAS38 B C M F V1 V	LREF	14.2540	IN.
[TEK030]	ARC 57-747 DAS38 B C M F V1 V	BREF	29.1694	IN.
[TEK040]	ARC 57-747 DAS38 B C M F V1 V	XMRP	32.0310	IN.
[TEK049]	ARC 57-747 DAS38 B C M F V1 V	ZMRP	11.2500	IN.
		SCALE	11.0000	SCALE

SPOBRK 55.000
 BOFLAP 16.300
 AILRON .000
 ELEVON .000
 SEAL.EL 15.000
 RNVL .000
 RNVL .000
 RNVL .000
 RNVL .000

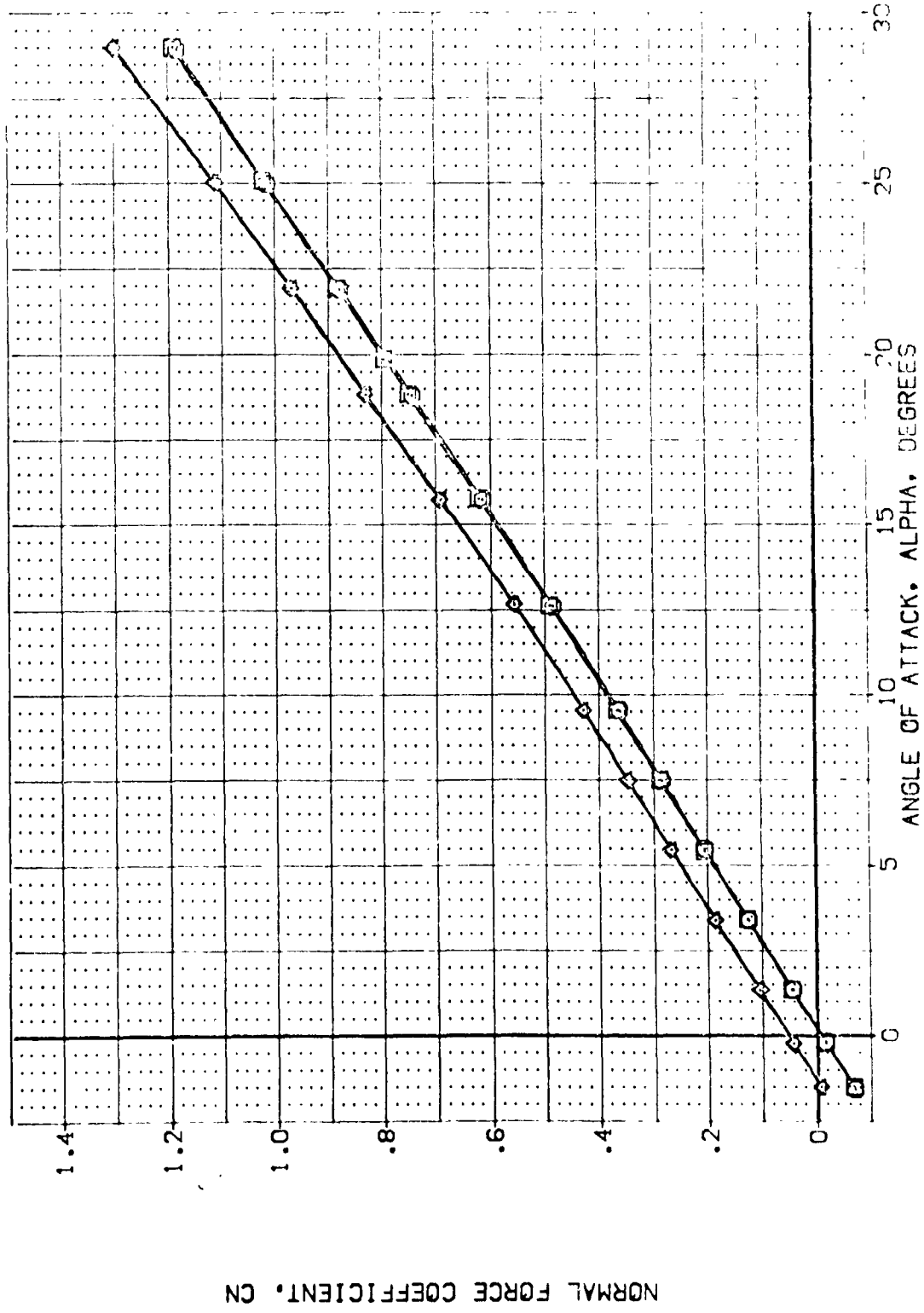


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON: RNVL	SEAL.EL	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 C-533 B C M F VI V	NON: RNVL	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210 SC.FT.
(TEK020)	ARC 97-747 C-533 B C M F VI V	NON: RNVL	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440 IN.
(TEK030)	ARC 97-747 C-533 B C M F VI V	NON: RNVL	SEAL.EL	15.000	.000	16.300	55.000	BREF 20.1004 IN.
(TEK040)	ARC 97-747 C-533 B C M F VI V	NON: RNVL	SEAL.EL	15.000	.000	16.300	55.000	VMRP 32.2010 IN.
(TEK045)	ARC 97-747 C-533 B C M F VI V	NON: RNVL	SEAL.EL	15.000	.000	16.300	55.000	ZMRP .0000 IN.
								SCALE 11.2500 IN.

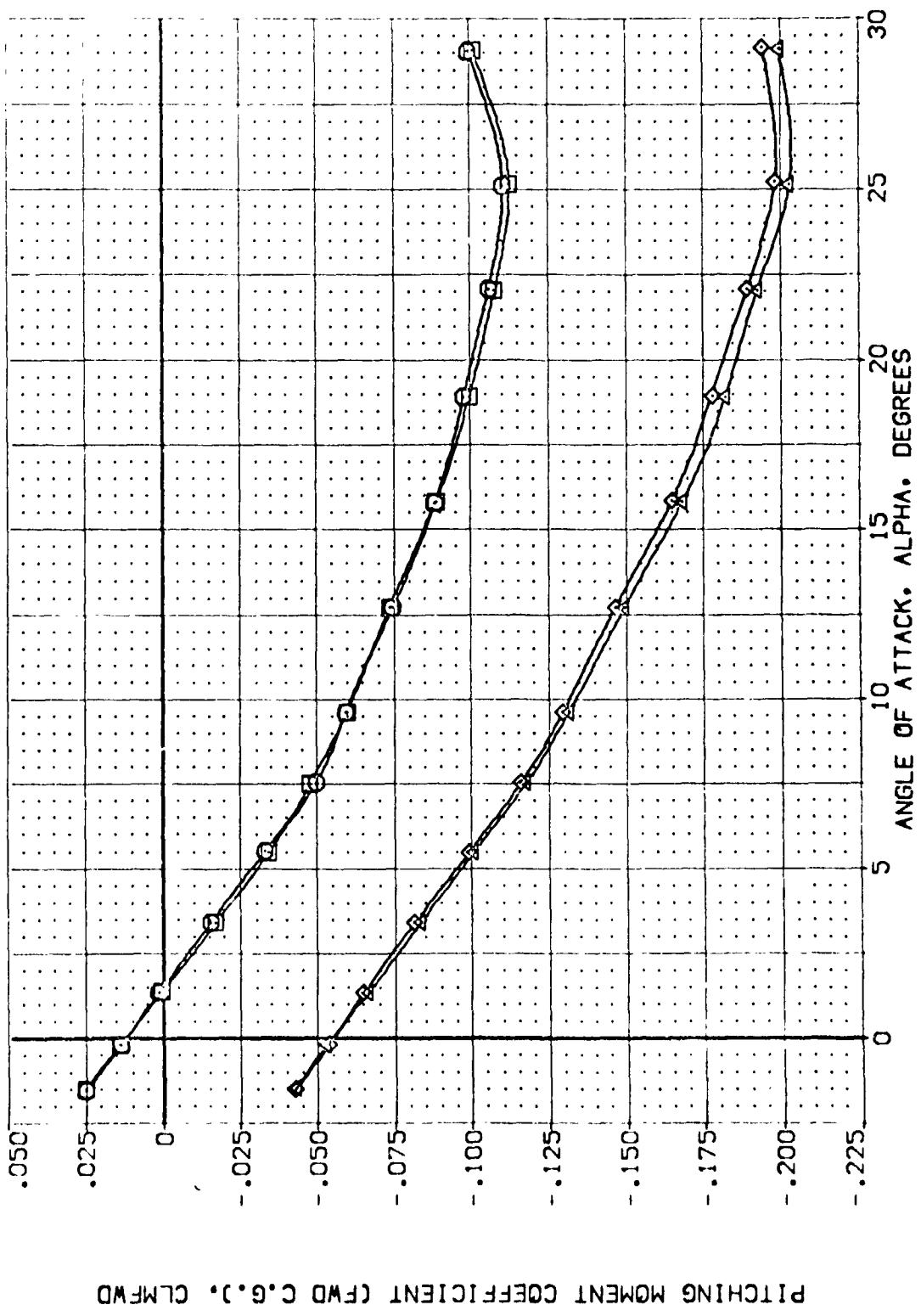


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	SEAL.EL	ELEVON	AILERON	BOFLAP	SPOBR	SREF	REFERENCE INFORMATION
(TEK010)	ARC 97-747 CAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	.000	.000	16.300	55.000	SREF	2.4210
(TEK050)	ARC 97-747 CAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	.000	.000	16.300	55.000	REF	14.2340
(TEK008)	ARC 97-747 CAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	15.000	.000	16.300	55.000	BMREF	20.1100
(TEK019)	ARC 97-747 CAS38 B C M F VI V	NOM.	RV/L	SEAL.EL	15.000	.000	16.300	55.000	BMREF	32.0010
									YMREF	11.2400
									SCALE	11.2400
									SCALE	11.2400

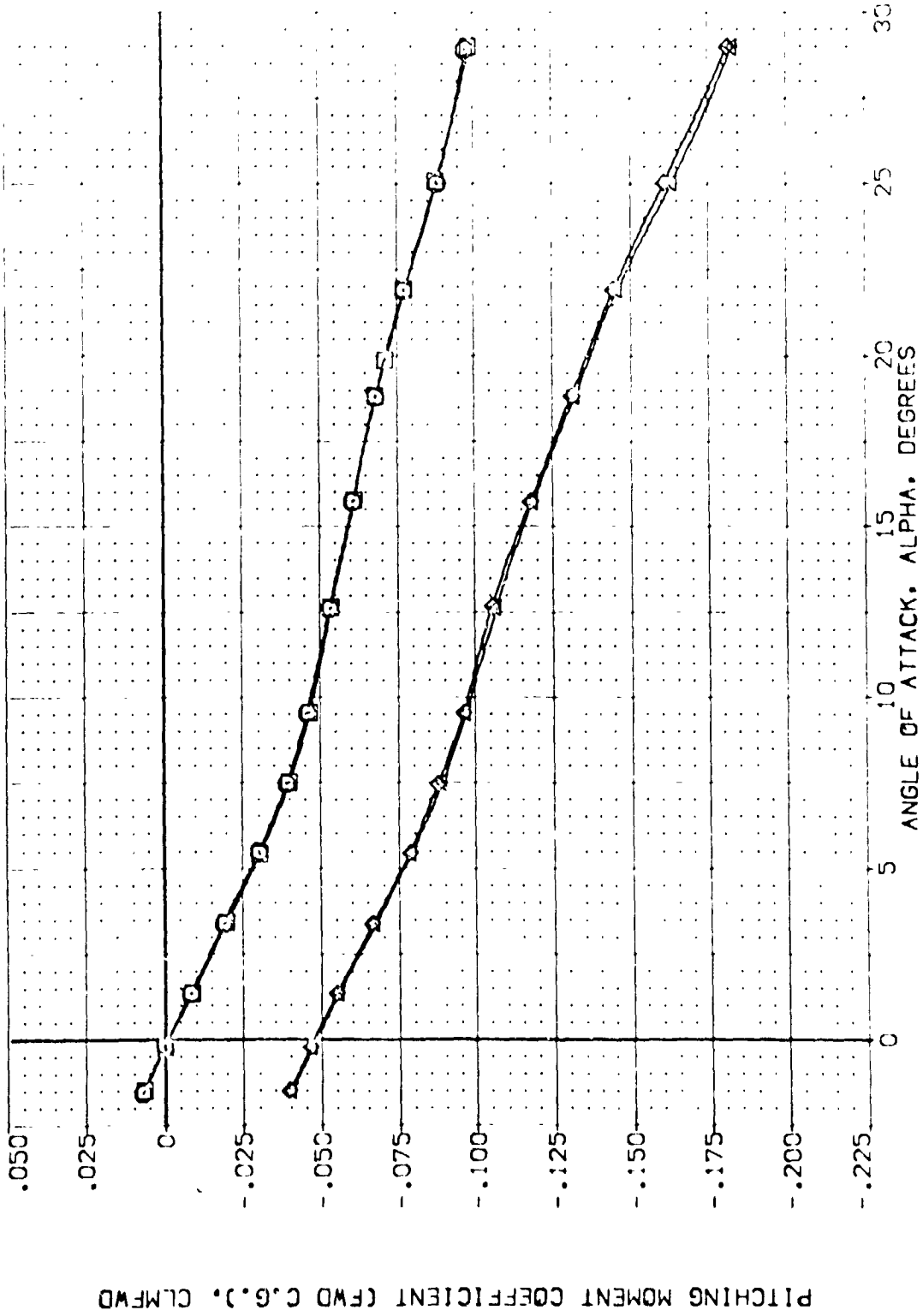


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(1) (010)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(2) (050)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	.000	.000	16.300	55.000	SREF 7.4210
(3) (020)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	.000	.000	16.300	55.000	UREF 14.2460
(4) (030)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	.000	.000	16.300	55.000	SCREF 28.1000
(5) (040)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	.000	.000	16.300	55.000	YREF 32.0000
(6) (049)	ARC 97-747 C-A529 B C M F V	V	NON:	R/V/L	SEAL:EL	.000	.000	16.300	55.000	ZREF 11.0000
						15.000	.000	6.000	50.000	SCALE

PITCHING MOMENT COEFFICIENT (CFT C.G.), CLMAFT

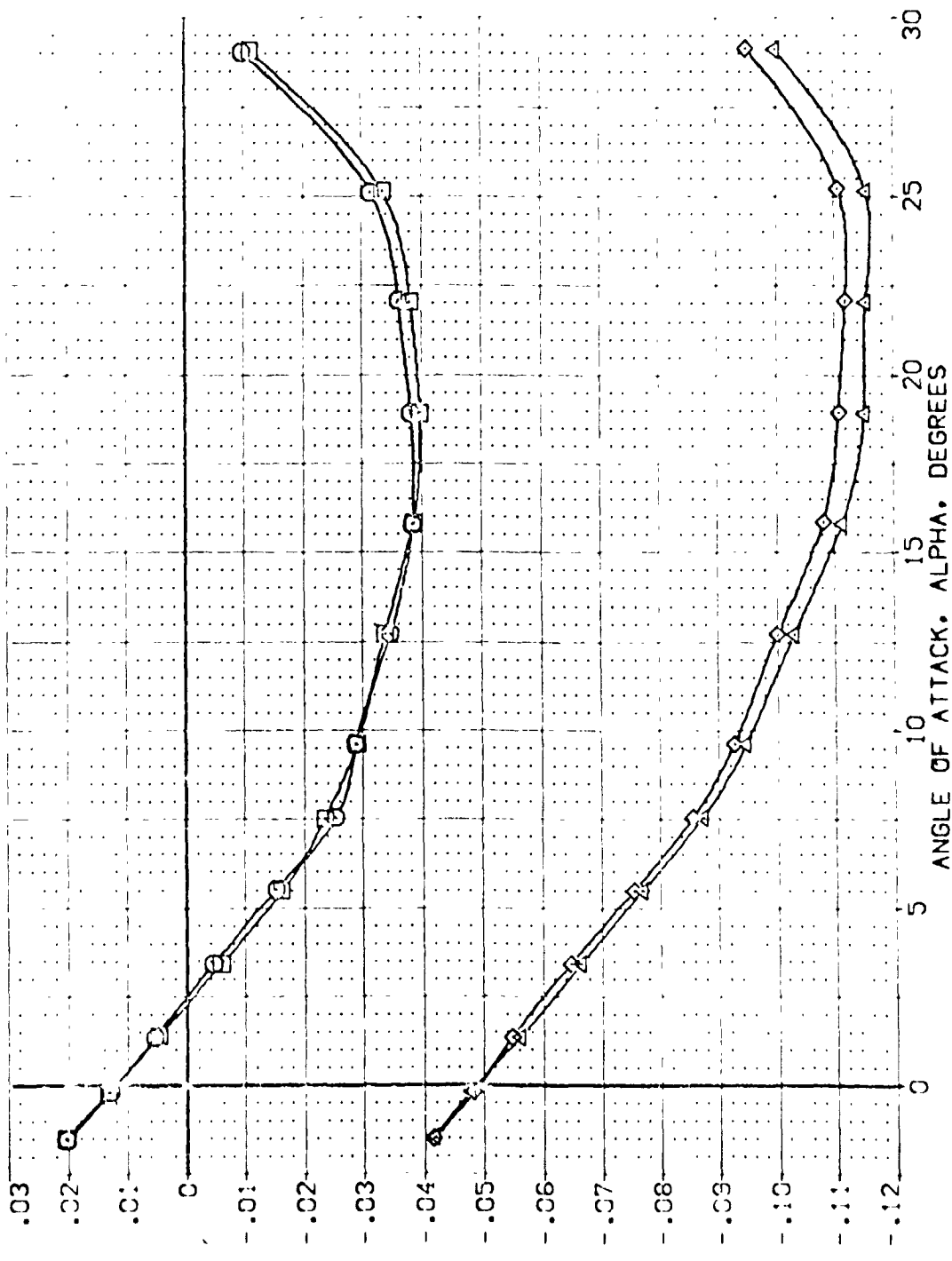


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(TEK010)	ARC 97-747	DA538	B	C	M	F	V	SREF	2.4210	SC.FT.
(TEK050)	ARC 97-747	DA533	B	C	M	F	V	LREF	14.2410	
(TEK008)	ARC 97-747	DA533	B	C	M	F	V	BRFF	79.1000	
(TEK049)	ARC 97-747	DA533	B	C	M	F	V	XMRP	22.3010	
								YMRP	.0000	
								ZMRP	11.7000	
								SCALE	.0005	SCALE

ELEVON AILERON BOFLAP SPDBRK
 .000 .000 .000 .000
 .000 .000 .000 .000
 15.000 15.000 15.000 15.000
 SEAL.EL SEAL.EL
 .000 .000
 .000 .000
 55.000 55.000
 55.000 55.000

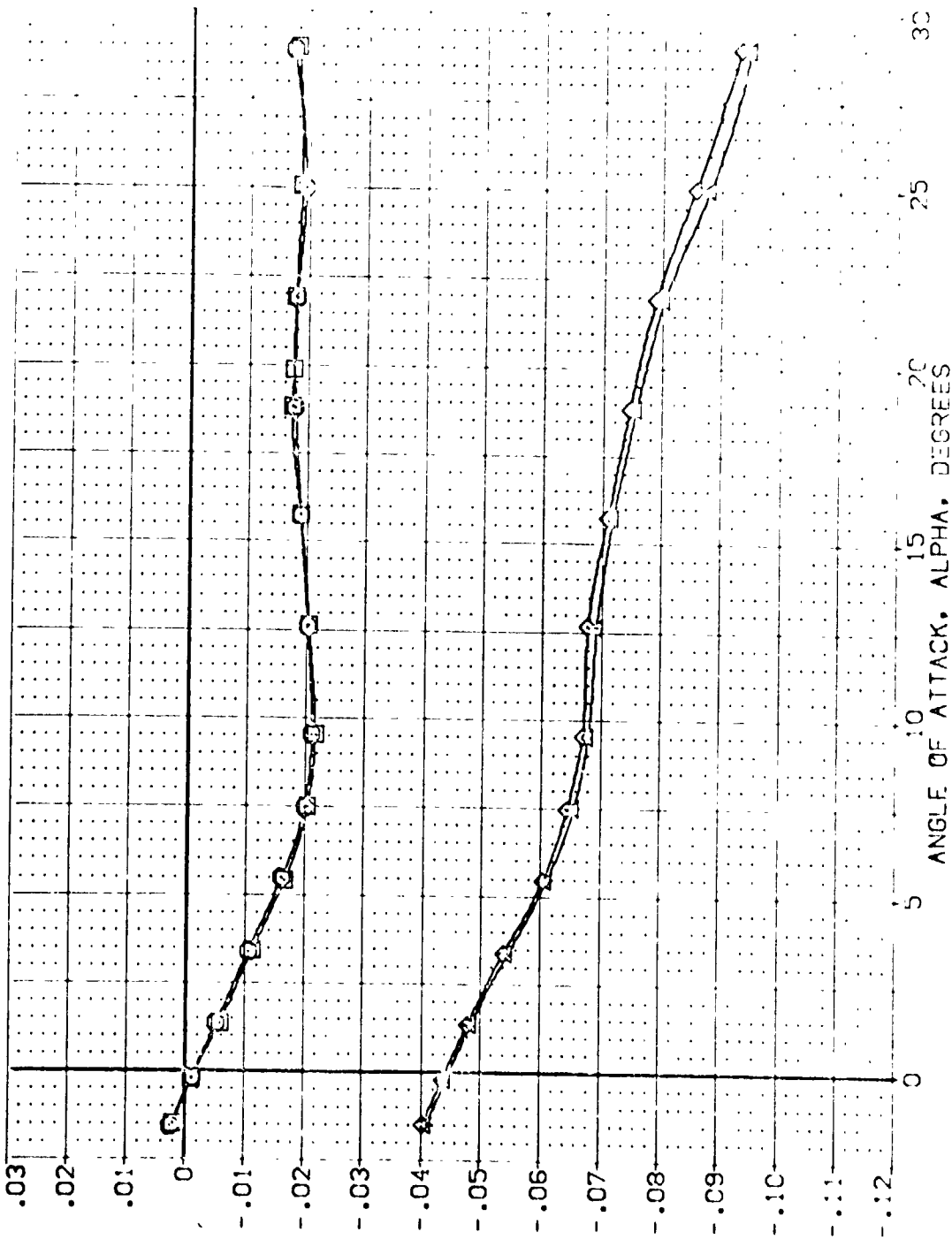


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RNVL	SEAL.EL	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(1EP010)	ARC 97-747 CAS09 B C M F VI V	1	RNVL	SEAL.EL	.000	.000	16.300	55.000	SREF 2.4210 50.FT.
(1EP020)	ARC 97-747 CAS09 B C M F VI V	2	RNVL	SEAL.EL	.000	.000	16.300	55.000	LREF 14.2440 IN.
(1EP030)	ARC 97-747 C1503 B C M F VI V	3	RNVL	SEAL.EL	15.000	.000	16.300	55.000	YREF 22.1001 IN.
(1EP049)	ARC 97-747 C1503 B C M F VI V	4	RNVL	SEAL.EL	15.000	.000	16.300	55.000	XREF 22.1010 IN.
									YREF 11.0000 IN.
									SCALE 11.0000 SCALE

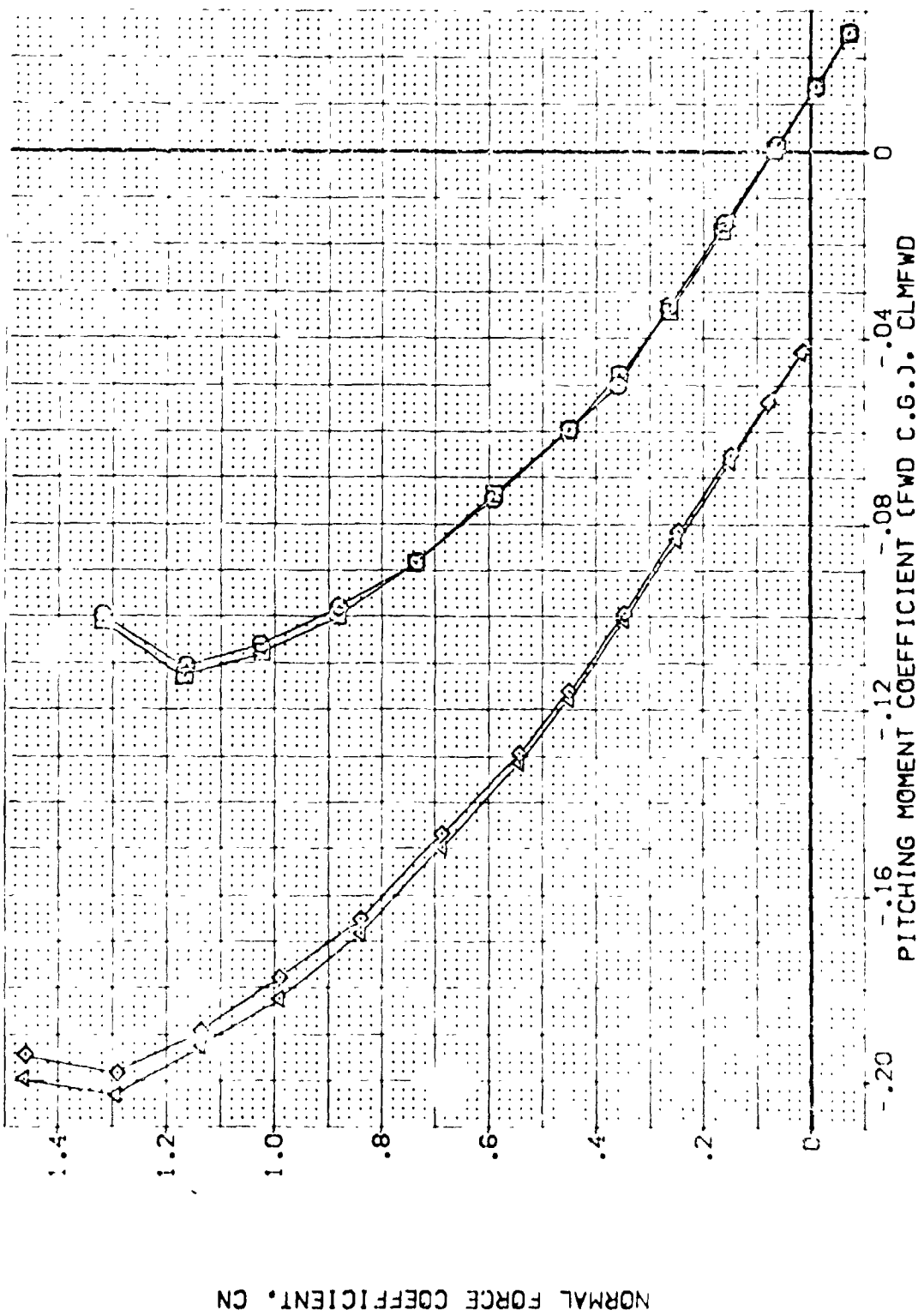


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPODBK	REFERENCE INFORMATION
(TEPC01)	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210
(TEPC02)	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2740
(TEPC03)	ARC 97-747 CAS33 B C M F VI V	15.000	.000	16.300	55.000	EXREF 29.1000
(TEPC48)	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.300	55.000	XREF 32.0000
(TEPC49)	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.300	55.000	YREF 11.2500
						ZREF 1.0000
						SCALE

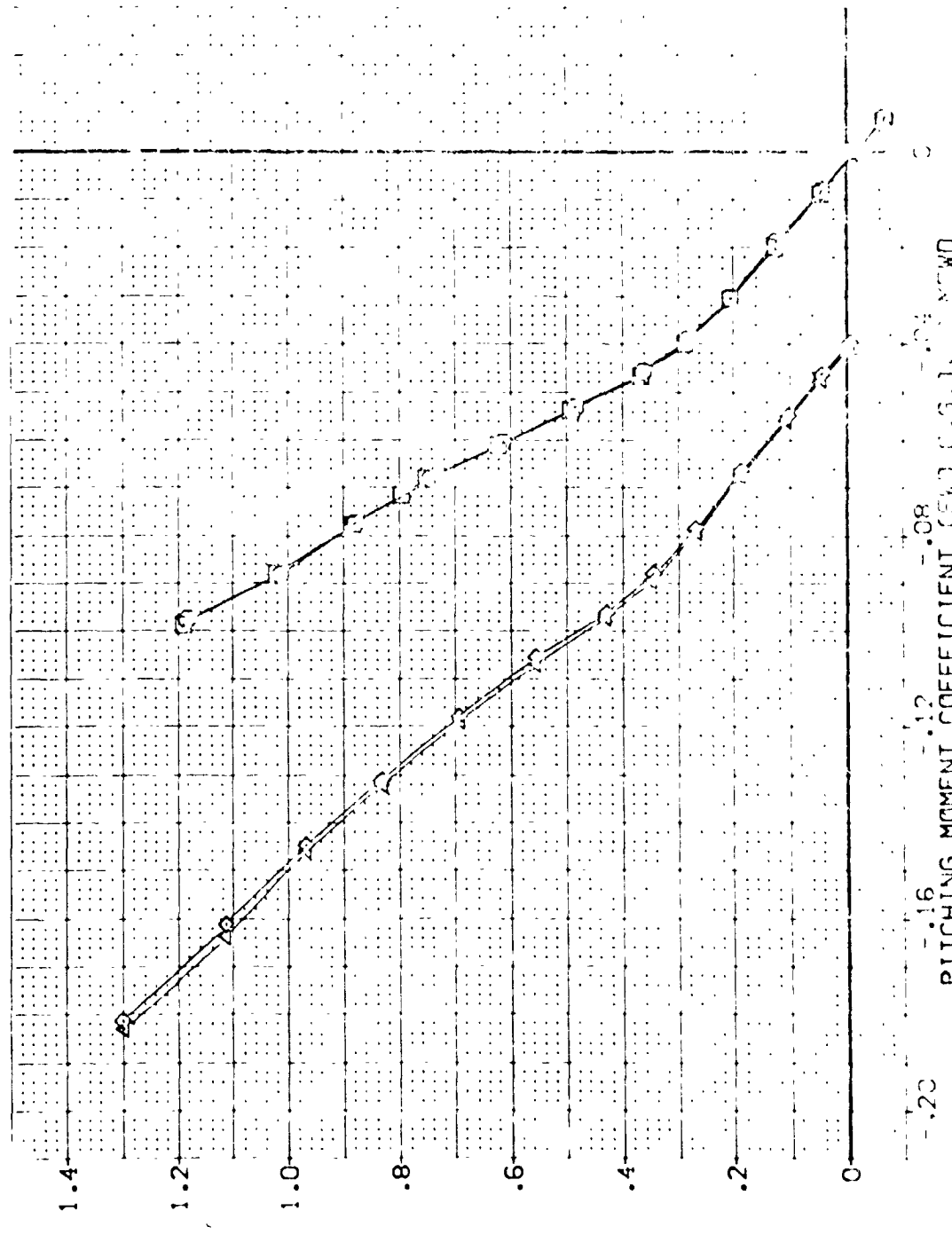


FIG. 10 SEALED ELEVON SPLIT EFFECTS
(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	R/V/L	SEAL.E/L	ELEVON	AILERON	BOFLAP	SPOON	REFERENCE INFORMATION
(1) (1) (1)	ARC 97-747 D/A/S/B B C M F V	V			.000	.000	16.300	55.000	SREF 2.4210
(2) (2) (2)	ARC 97-747 C/A/S/B B C M F V	V			.000	.000	16.300	55.000	LRFF 14.2410
(3) (3) (3)	ARC 97-747 C/A/S/B B C M F V	V			15.000	.000	16.300	55.000	LRFF 28.4820
(4) (4) (4)	ARC 97-747 C/A/S/B B C M F V	V			15.000	.000	16.300	55.000	LRFF 32.6230
									ZREF 11.2000
									SCALE .10000

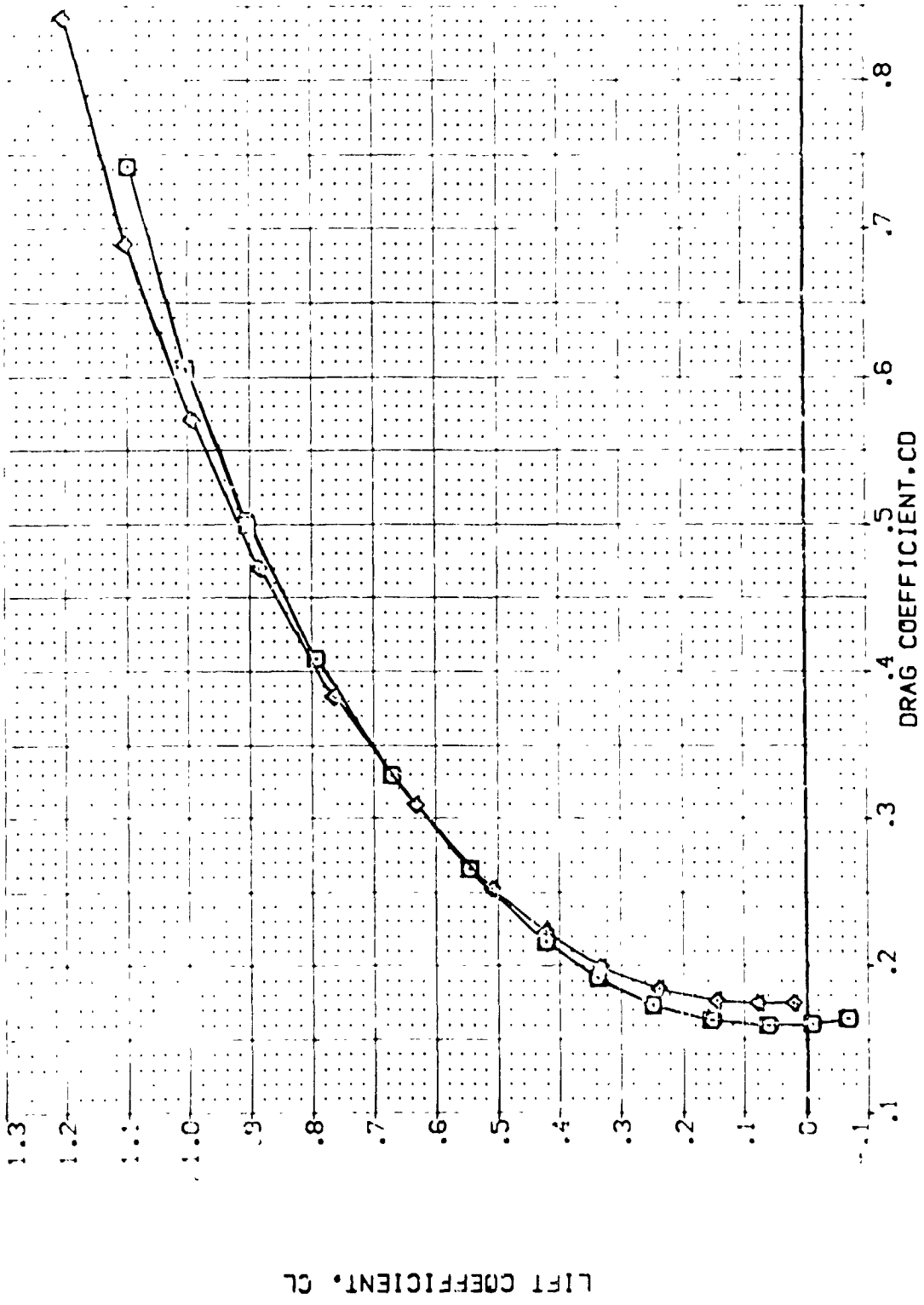


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM. R/V/L	ELEVON	AILTRON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(TEK010)	ARC 97-747 0A538 B C M F VI V	.000	.000	.000	16.300	55.000	SREF 2.4210
(TEK050)	ARC 97-747 0A538 B C M F VI V	.000	.000	.000	16.300	55.000	LREF 14.2450
(TEK049)	ARC 97-747 0A533 B C M F VI V	15.000	15.000	.000	16.300	55.000	BREF 29.1001
		SEAL .EL	SEAL .L				XMREF 52.2316
							YMRP .0000
							ZMRP 11.2350
							SCALE .0000

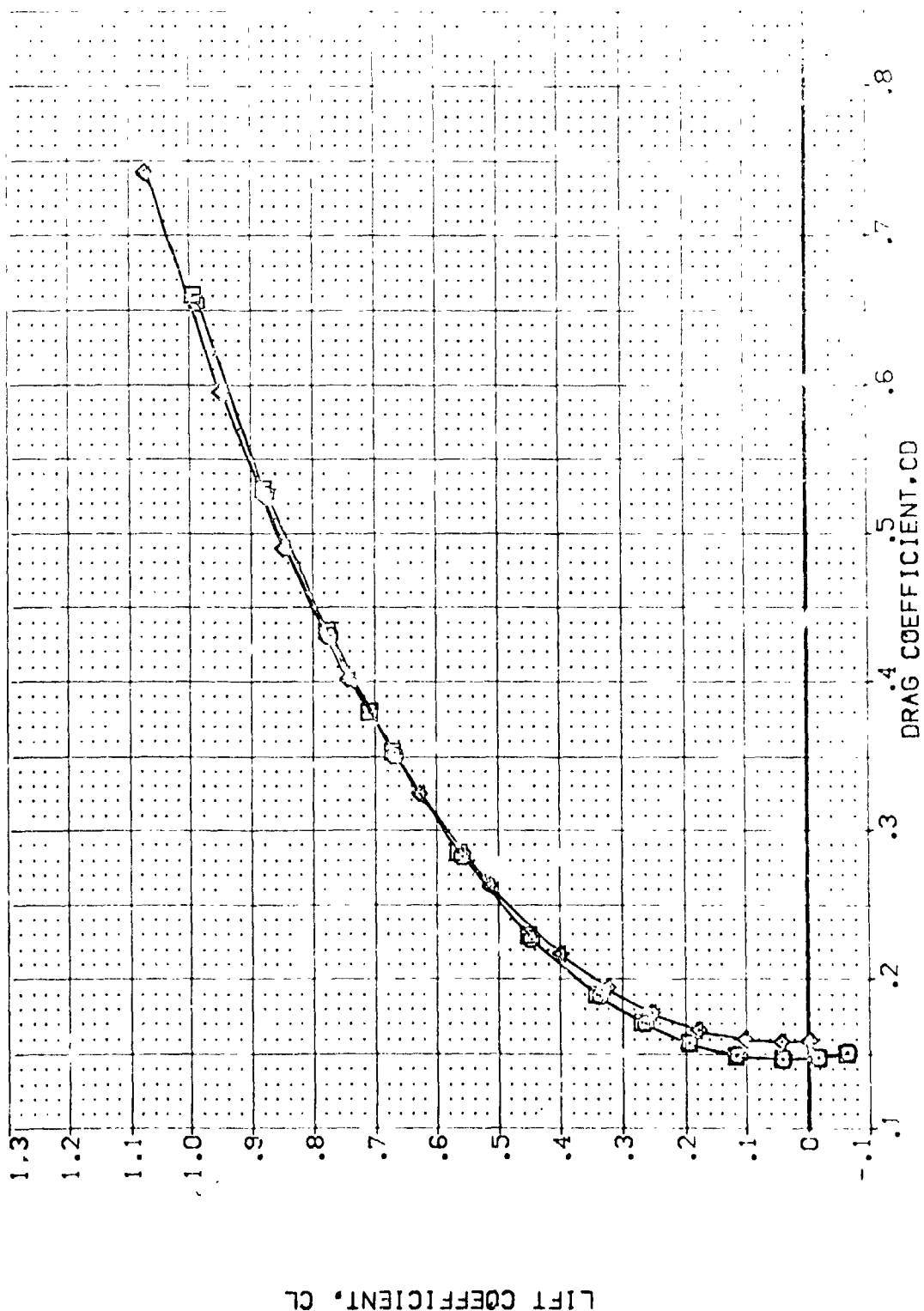


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF LAP	SPDRBK	REFERENCE INFORMATION
(1) (X010)	ARC 97-747 GAS29 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 53. FT.
(2) (X050)	ARC 97-747 GAS33 B C M F VI V	.000	.000	16.300	55.000	LREF 14.2440 IN.
(3) (X000)	ARC 97-747 GAS33 B C M F VI V	.000	.000	16.300	55.000	BREF 20.1601 IN.
(4) (X000)	ARC 97-747 GAS33 B C M F VI V	15.000	.000	16.300	55.000	XREF 52.1600 IN.
(5) (X049)	ARC 97-747 GAS33 B C M F VI V	15.000	.000	16.300	55.000	YREF 52.1600 IN.
						ZREF 11.2300 IN.
						SCALE .0000

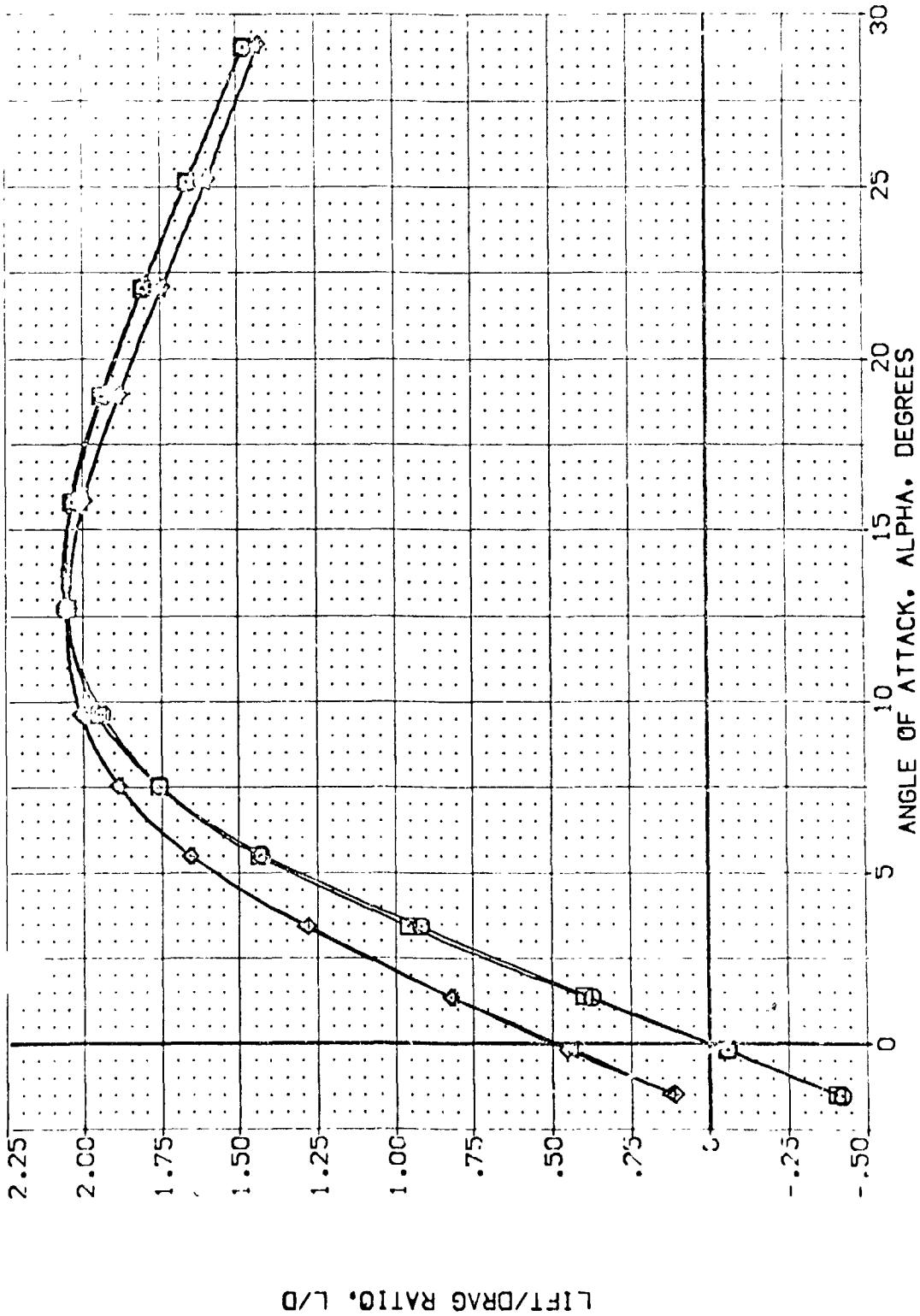


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(Ca/MACH = 1.60)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	V	REF. INFO	SCALE
(TEK010)	ARC 97-747 OAS33 B C M F V1 V	1.51	SREF	2.4210
(TEK050)	ARC 97-747 OAS33 B C M F V1 V	NOM.	LREF	14.7410
(TEK003)	ARC 97-747 OAS33 B C M F V1 V	NOM.	BREF	23.1001
(TEK049)	ARC 97-747 OAS33 B C M F V1 V	NOM.	XMRP	32.0000
			YMRP	11.0000
			ZMRP	11.0000
			SCALE	10000

ELEVON	ALLIRON	EDFLAP	SPOORK	REFERENCE INFORMATION
.000	.000	16.000	55.000	2.4210
.000	.000	16.000	55.000	14.7410
15.000	.000	16.000	55.000	23.1001
15.000	.000	16.000	55.000	32.0000
				11.0000
				10000

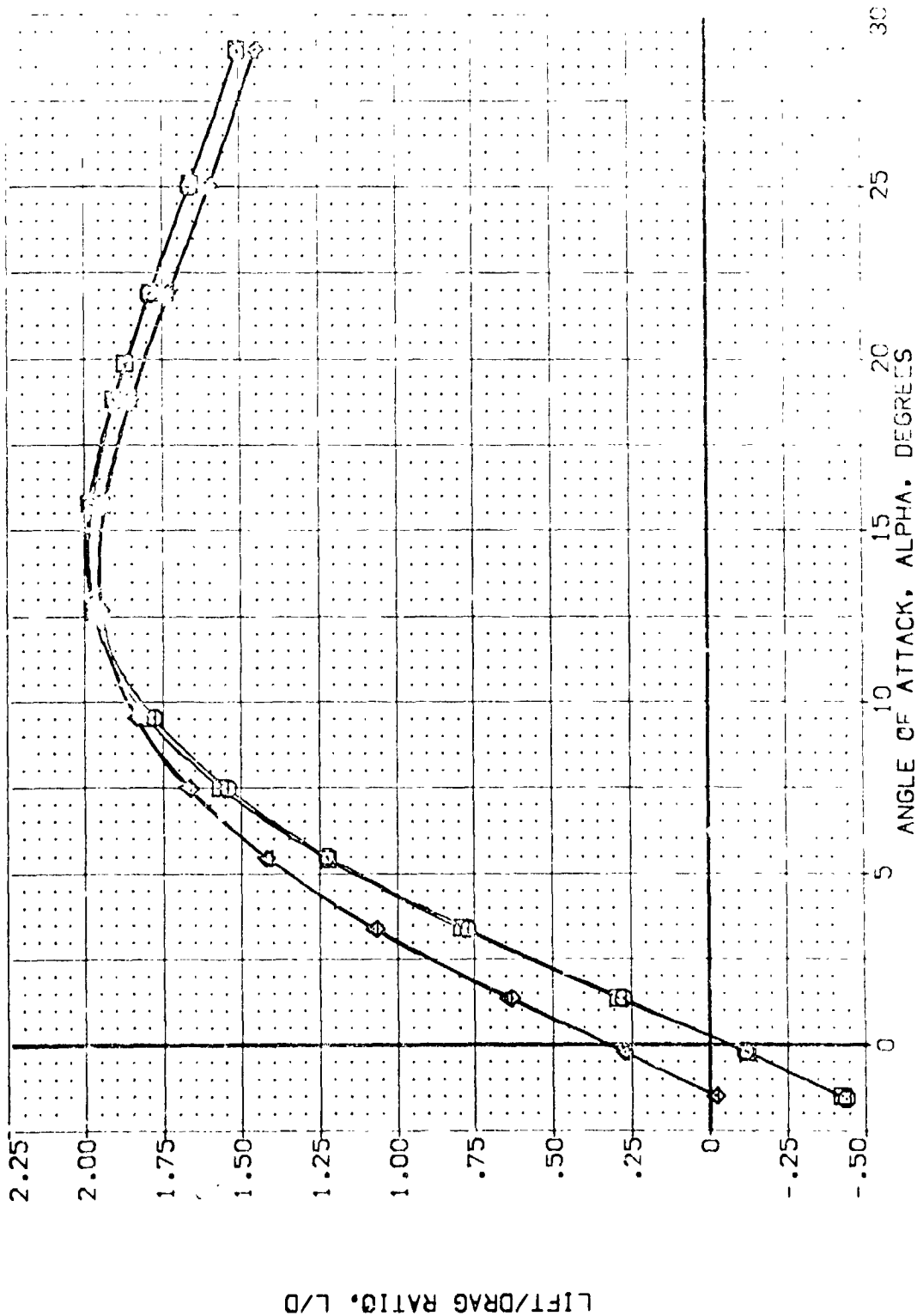


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEK010)	ARC 97-747	CA533	B	C	M	F	VI	V	NOM: RN/L	ELEVON	AIRLON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(AEK050)	ARC 97-747	CA533	B	C	M	F	VI	V	NOM: RN/L	.000	.000	16.300	55.000	SREF 2.4210
(AEK002)	ARC 97-747	CA533	B	C	M	F	VI	V	NOM: RN/L	.000	.000	16.300	55.000	LBREF 14.7460
(AEK049)	ARC 97-747	CA533	B	C	M	F	VI	V	NOM: RN/L	15.000	.000	16.300	55.000	DBREF 23.1654
									NOM: RN/L	15.000	.000	16.1500	55.000	XMRP 32.0000
									NOM: RN/L	15.000	.000	16.1500	55.000	YMRP 1.0000
									NOM: RN/L	15.000	.000	16.1500	55.000	ZMRP 11.2500
									NOM: RN/L	15.000	.000	16.1500	55.000	SCALE .0000

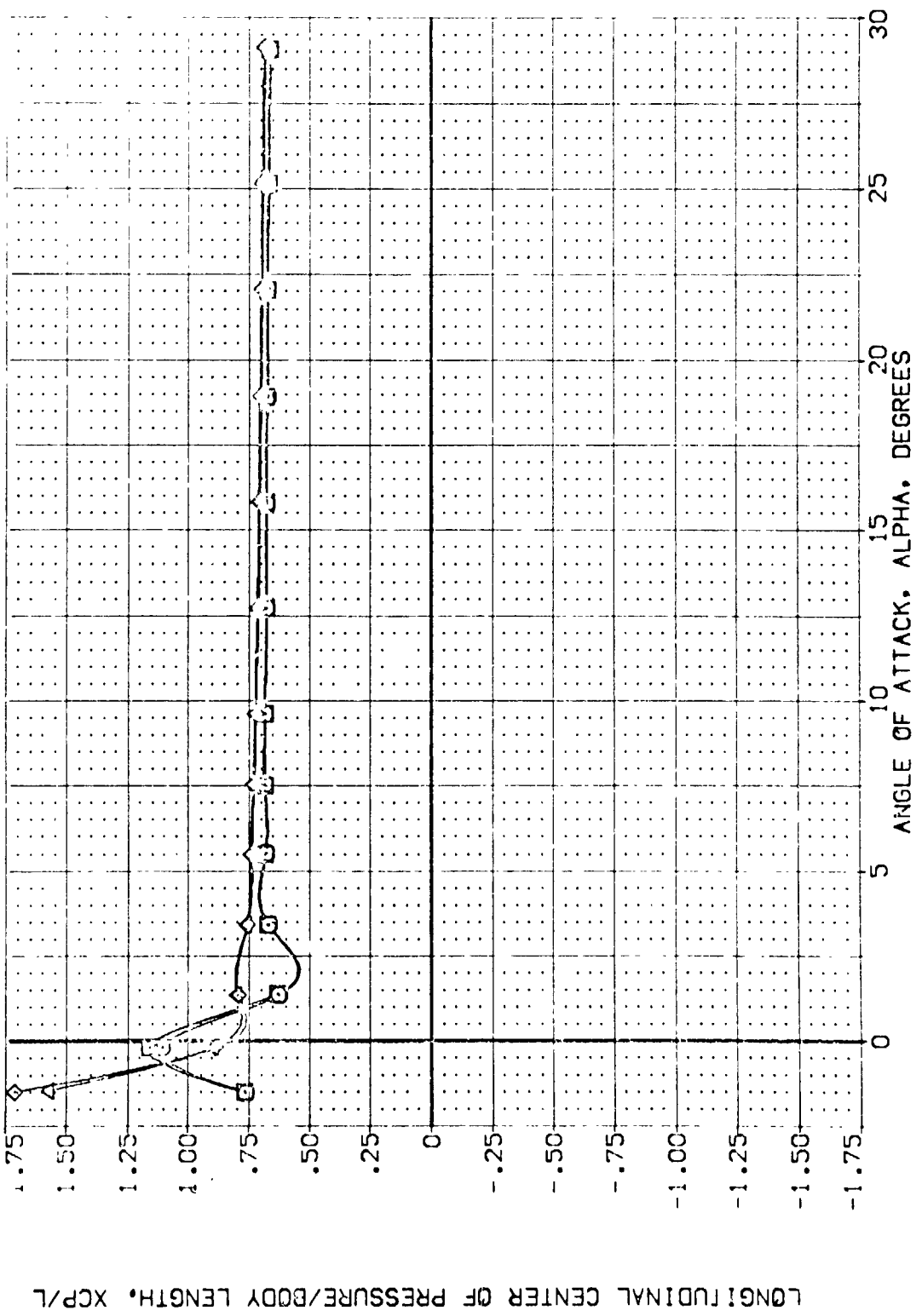


FIG. 10 SEALED ELEVON SPLIT EFFECTS

CA/MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RNVL	SEAL.EL	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AEK010)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	SREF 2.4710 16.1 FT.
(AEM050)	ARC 97-747 GAS38 B C M F VI V				.000	.000	16.300	55.000	LREF 14.2400 16.1 FT.
(AEP000)	ARC 97-747 GAS38 B C M F VI V			15.000	.000	.000	16.300	55.000	BREF 20.1000 16.1 FT.
(AEP049)	ARC 97-747 GAS38 B C M F VI V				15.000	.000	16.300	55.000	XREF 32.4010 16.1 FT.
									YREF 11.4000 16.1 FT.
									ZREF 11.4000 16.1 FT.
									SCALE .0010

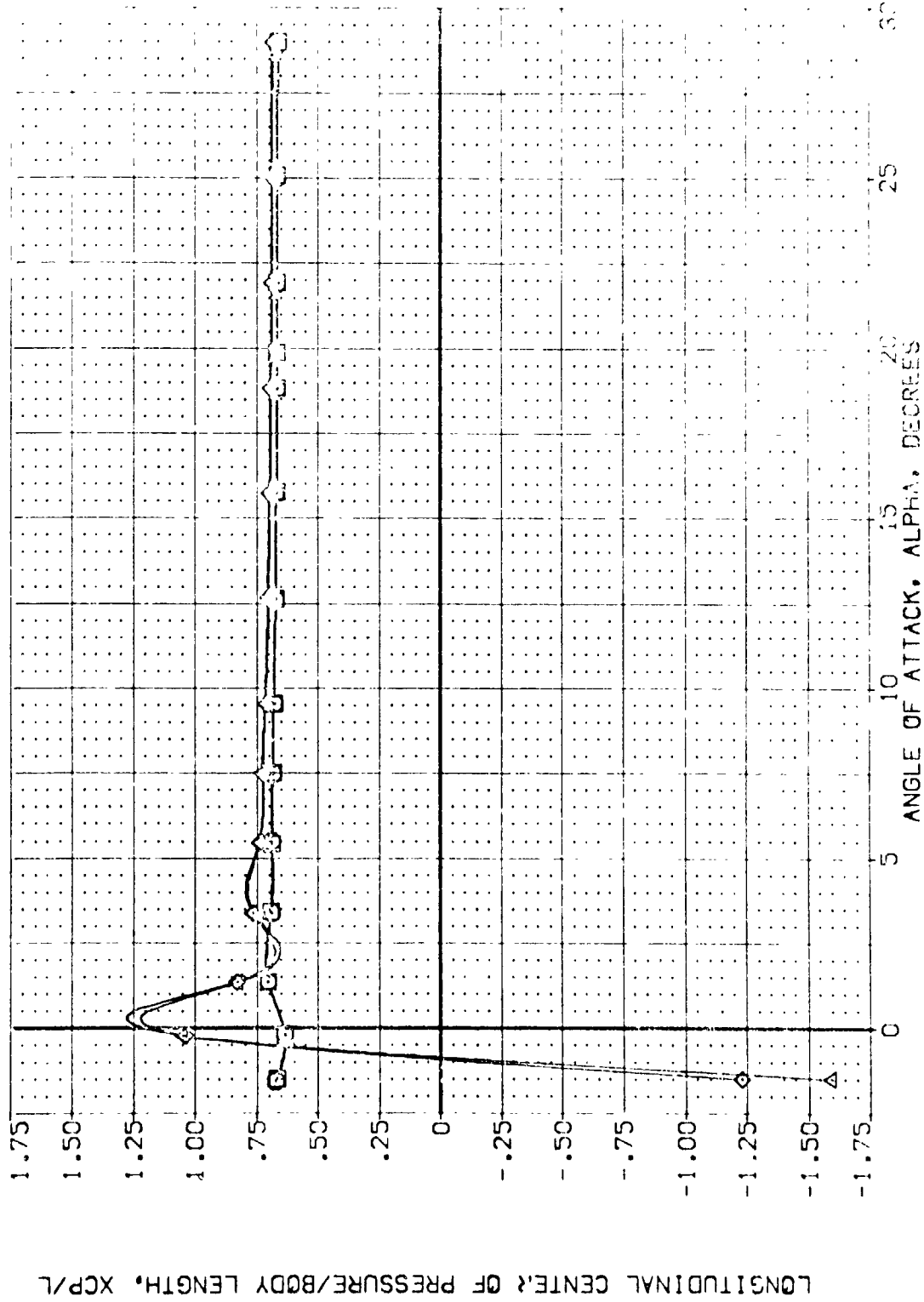
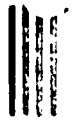


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 DA538 B C M F V1 V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(VEK049)	ARC 97-747 DA538 B C M F V1 V	.000	.000	16.300	55.000	LREF 14.2140 IN.
		SEAL.EL				BREF 28.1004 IN.
		SEAL.EL	15.000			XREF 32.3010 IN.
						YREF .0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000

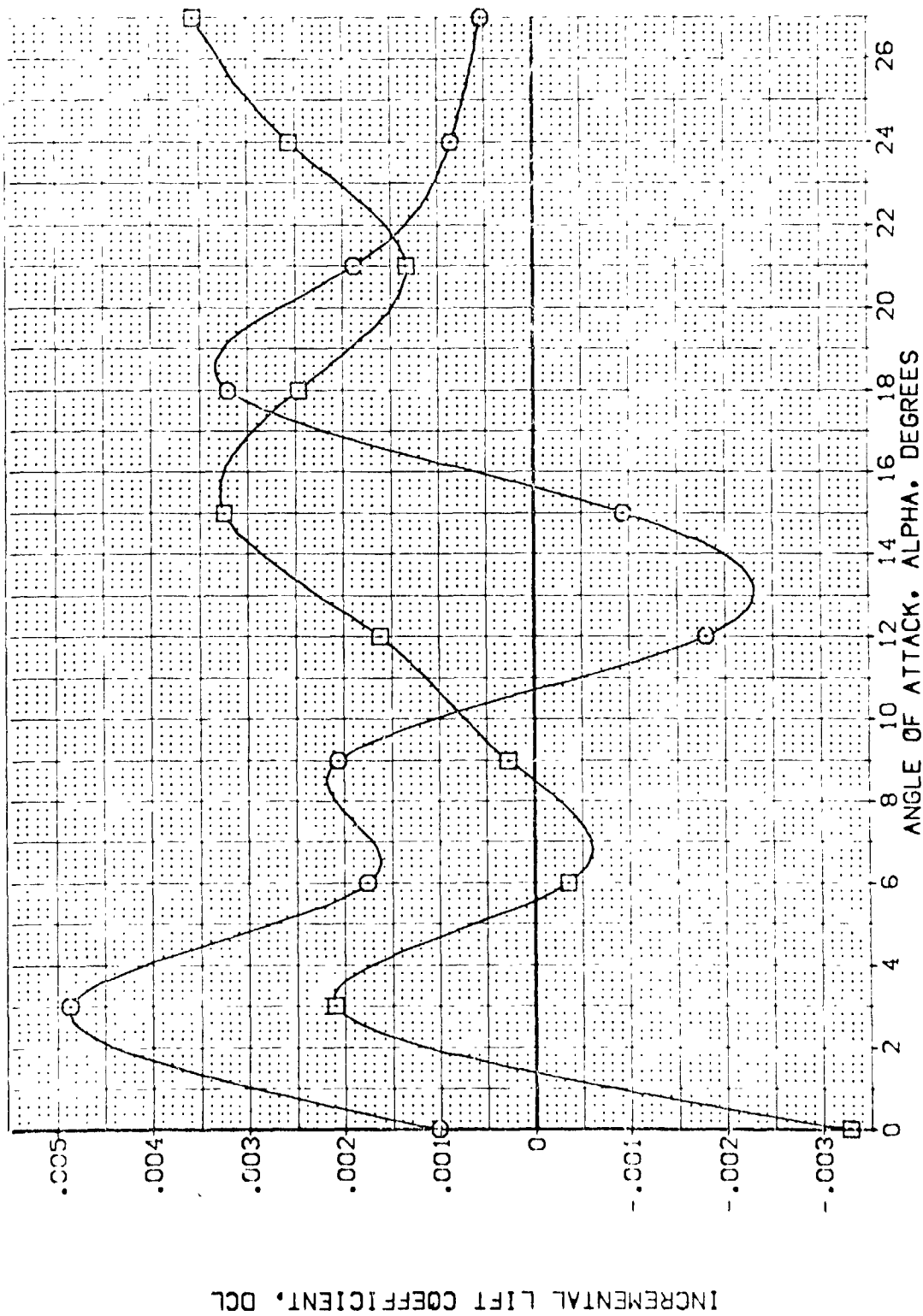


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (VF1050) (VF1049)
 CONFIGURATION DESCRIPTION: ARC 97-747 B C M F V1 V, ARC 97-747 C V S3 B C M F V1 V
 REFERENCE 1 → OPERATOR: 2.4010
 SREF: 55.000
 LREF: 16.300
 BREF: 16.300
 XREF: 16.300
 YREF: 16.300
 ZREF: 16.300
 SCALE: 55.000

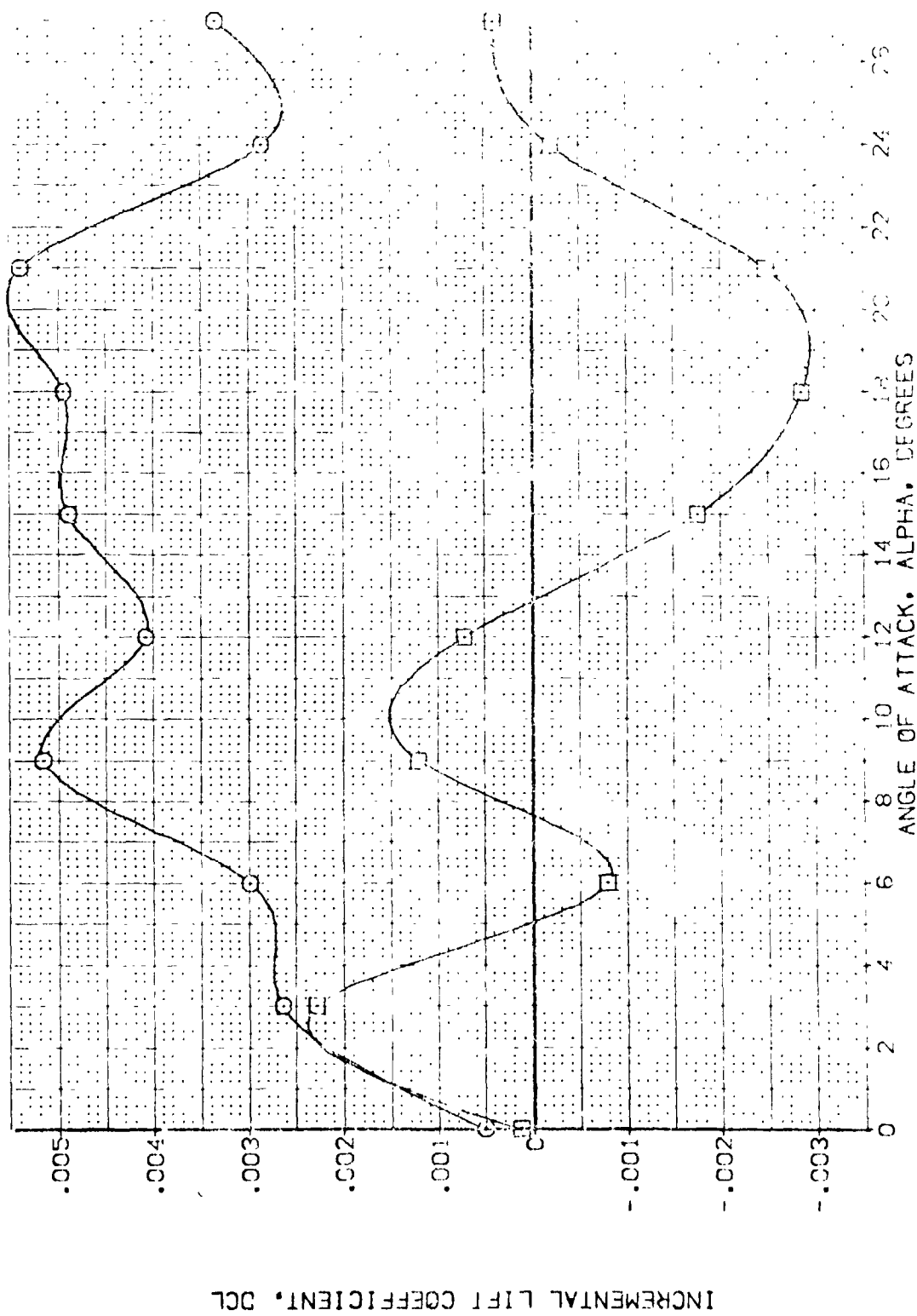


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 CAS38 B C M F VI V	.000	.000	16.300	55.000	SPEF 2.4210 SQ.FT.
(VEK049)	ARC 97-747 CAS33 B C M F VI V	15.000	.000	16.300	55.000	LREF 14.2640
		SEAL-EL	SEAL-EL			LREF 22.1000
						LAND 32.0010
						Y-MP .0000
						Z-MP 11.2000
						SCALE .0000

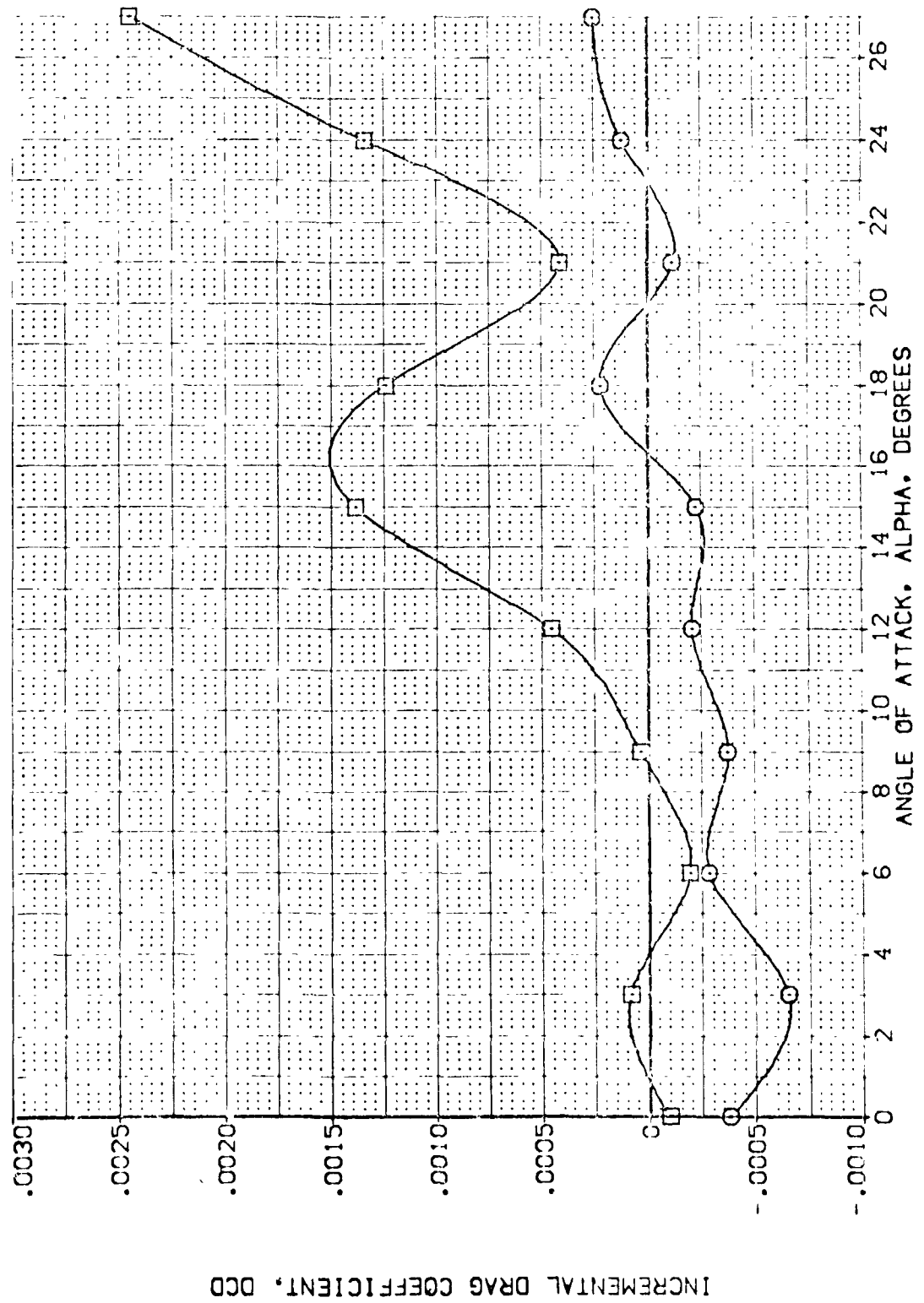


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL: []
 CONFIGURATION DESCRIPTION: ARC 97-747 C1A538 B C M F VI V NDI: RVAL SEAL EL NG1: RVAL SEAL EL
 [V1050] [V10319] []
 REFERENCE INFORMATION:
 SPREF: 2.4210
 LREF: 14.2110
 VREF: 50.000
 YREF: 11.000
 SCALE: 10.000

BOFLAP: 16.300
 AILRON: .000
 ELEVON: .000
 SEAL EL: .000
 SEAL EL: 15.000
 SPDBRK: 55.000
 SPDBRK: 55.000

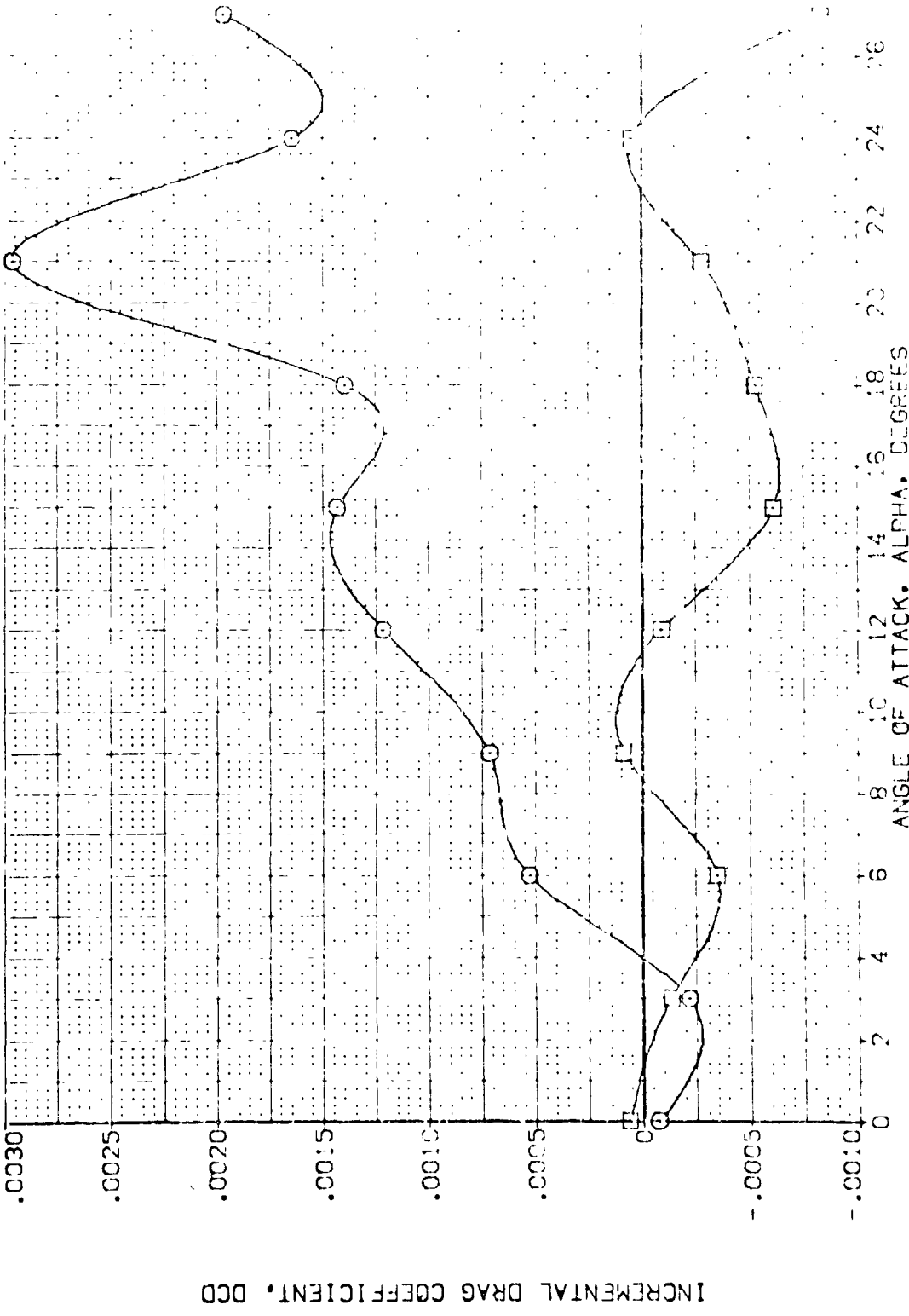


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BD/LAP	SPOBRK	REFERENCE INFORMATION:
(VEK02)	ARC 97-747 CAS33 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
(VEK049)	ARC 97-747 CAS33 B C W F VI V	15.000	.000	16.300	55.000	LREF 14.2140 IN.
						BREF 28.1004 IN.
						XMRP 32.0010 IN.
						YMRP .0000 IN.
						ZMRP 11.0500 IN.
						SCALE .0000 SCALE

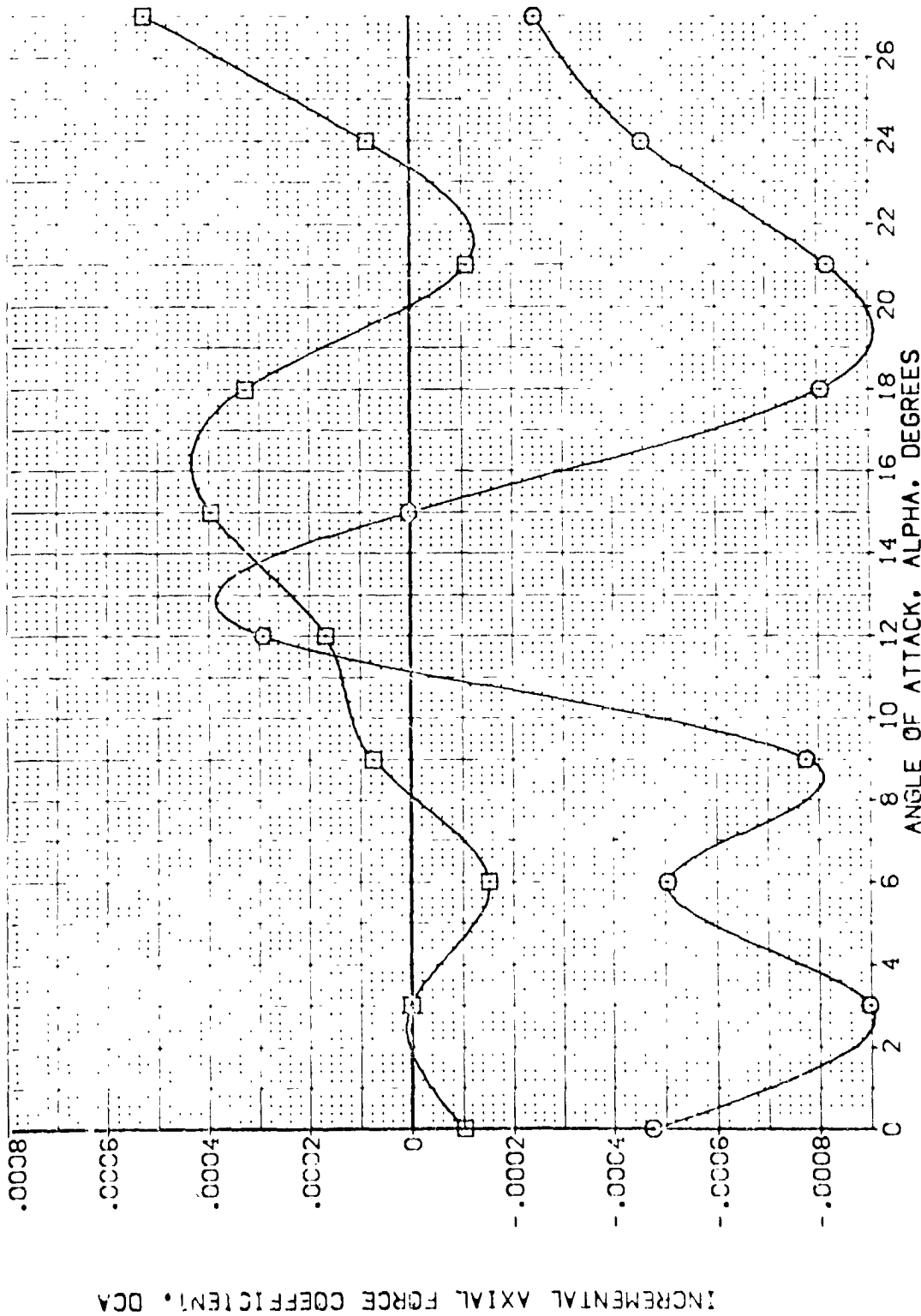


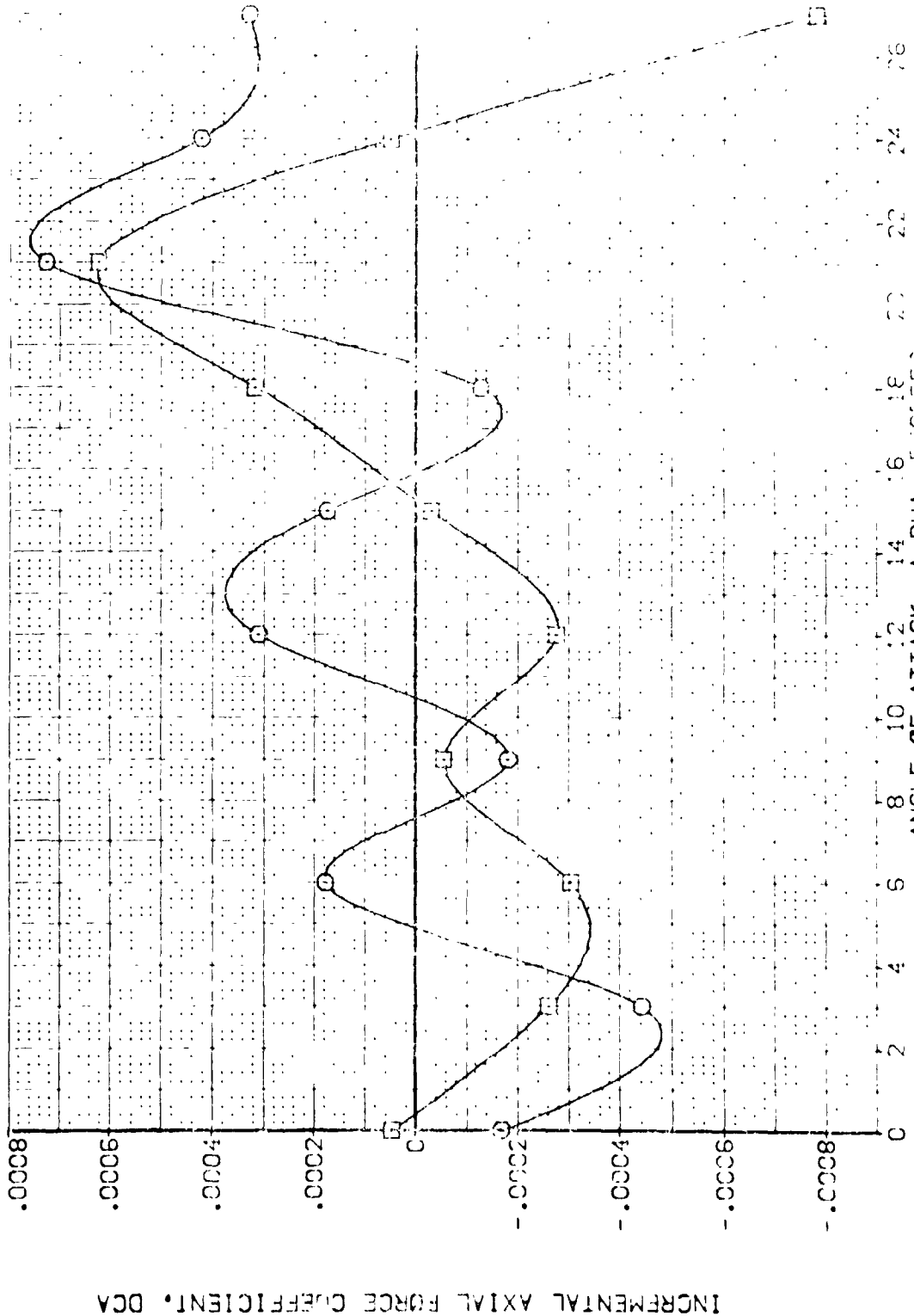
FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYM 30L CONFIGURATION DESCRIPTION
 (VEK050) ARC 97-747 0A538 B C M F VI V
 (VEK049) ARC 97-747 0A538 B C M F VI V

ELEVON AILRON BOFLAP SPODRK
 .000 .000 16.300 55.000
 .000 .000 16.300 55.000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.7240
 BREF 22.1210
 XMRD 32.1210
 YMRD 11.1210
 ZMRD 11.1210
 SCALE 10.000



INCREMENTAL AXIAL FORCE COEFFICIENT, DCA

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VEK050) [] ARC 97-747 CAS38 B C H F VI V

(VEK049) [] ARC 97-747 CAS38 B C H F VI V

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.

LREF 14.2140 IN.

BREF 28.1004 IN.

XMRP 32.5010 IN.

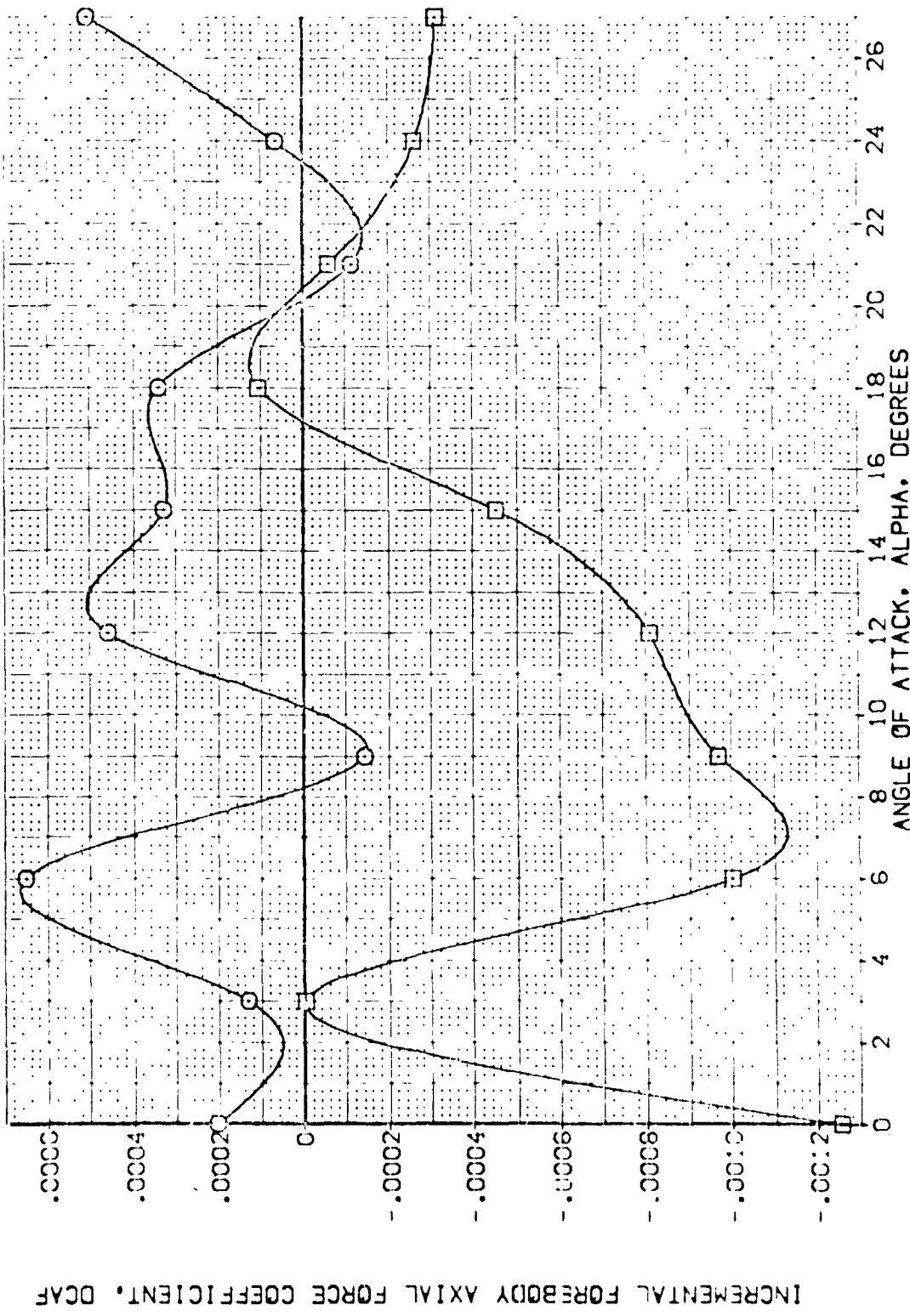
ZMRP .0000 IN.

SCALE 11.0000

ELEVON AILRON BDFLAP SPOBRK

.000 .000 16.300 55.000

15.000 16.300 55.000



INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION	
(A) (C) (O)	ARC 97-747 C-533 B C M F V	.000	.000	16.300	55.000	SREF	2.4210
(A) (O) (A) (9)	ARC 97-747 C-533 B C M F V	15.000	.000	16.300	55.000	LREF	14.2440
						ESREF	28.1001
						MSREF	32.1001
						TSREF	11.0000
						ZREF	11.0000
						SCALE	.0000

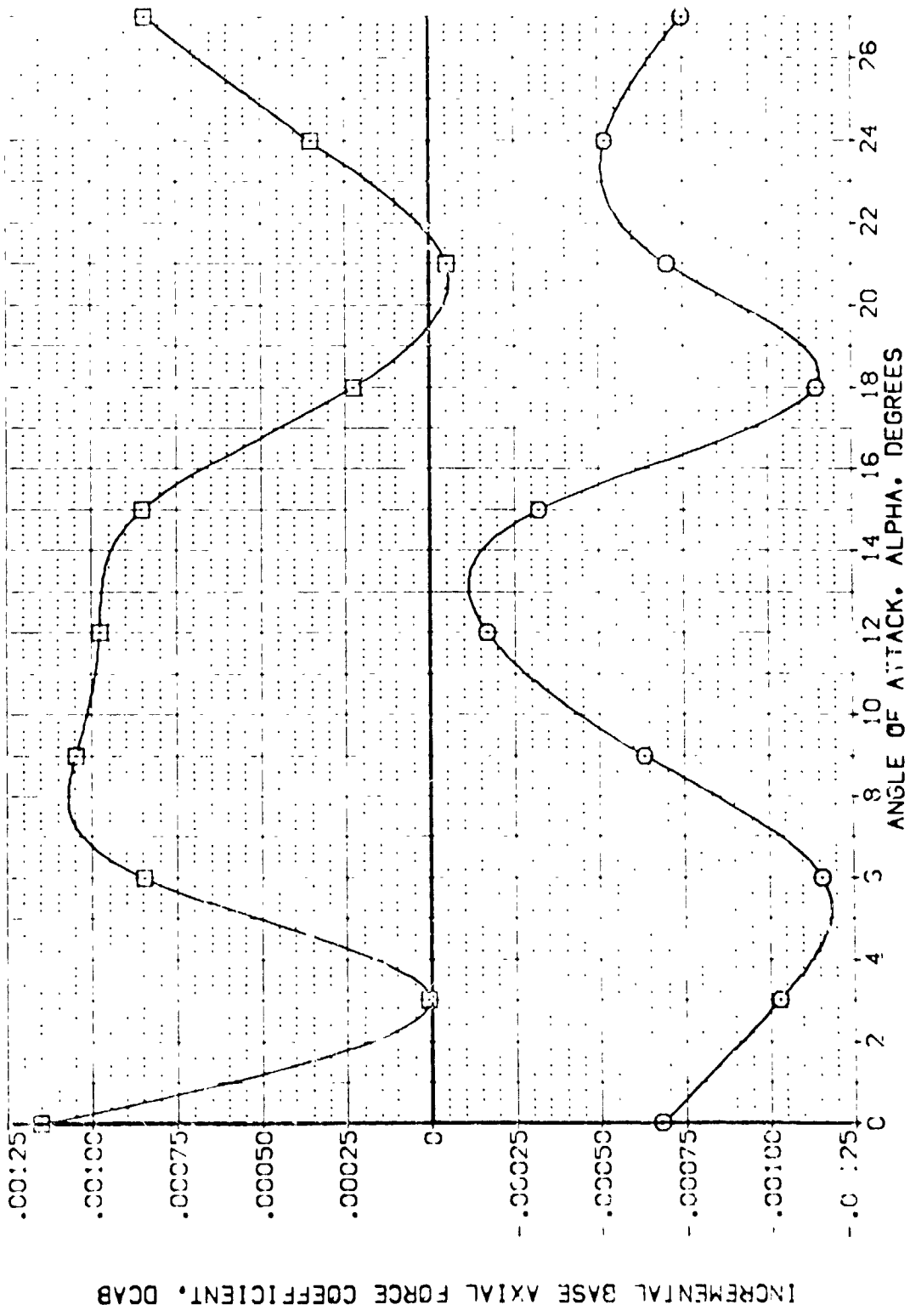


FIG. 10 SEALED ELEVON SPLIT EFFECTS
 (A) MACH = 1.60

DATA SET SYMBOL: [VEK050] [VEK049] []

CONFIGURATION DESCRIPTION: ARC 97-747 B A S 3 B B C M F V I V
 ARC 97-747 0 A 3 3 B B C M F V I V

NOM: R/V L SEAL .EL
 NOM: R/V L SEAL .EL

ELEVON: .000
 AIRLON: .000
 BOFLAP: 16.300
 SPOBRK: 55.000
 SPOBRK: 55.000

REFERENCE INFORMATION:
 SREF: 2.4210
 LREF: 14.2440
 B-REF: 20.1004
 XMRP: 39.1010
 YMRP: 5.0000
 ZMRP: 11.2500
 SCALE: .0001

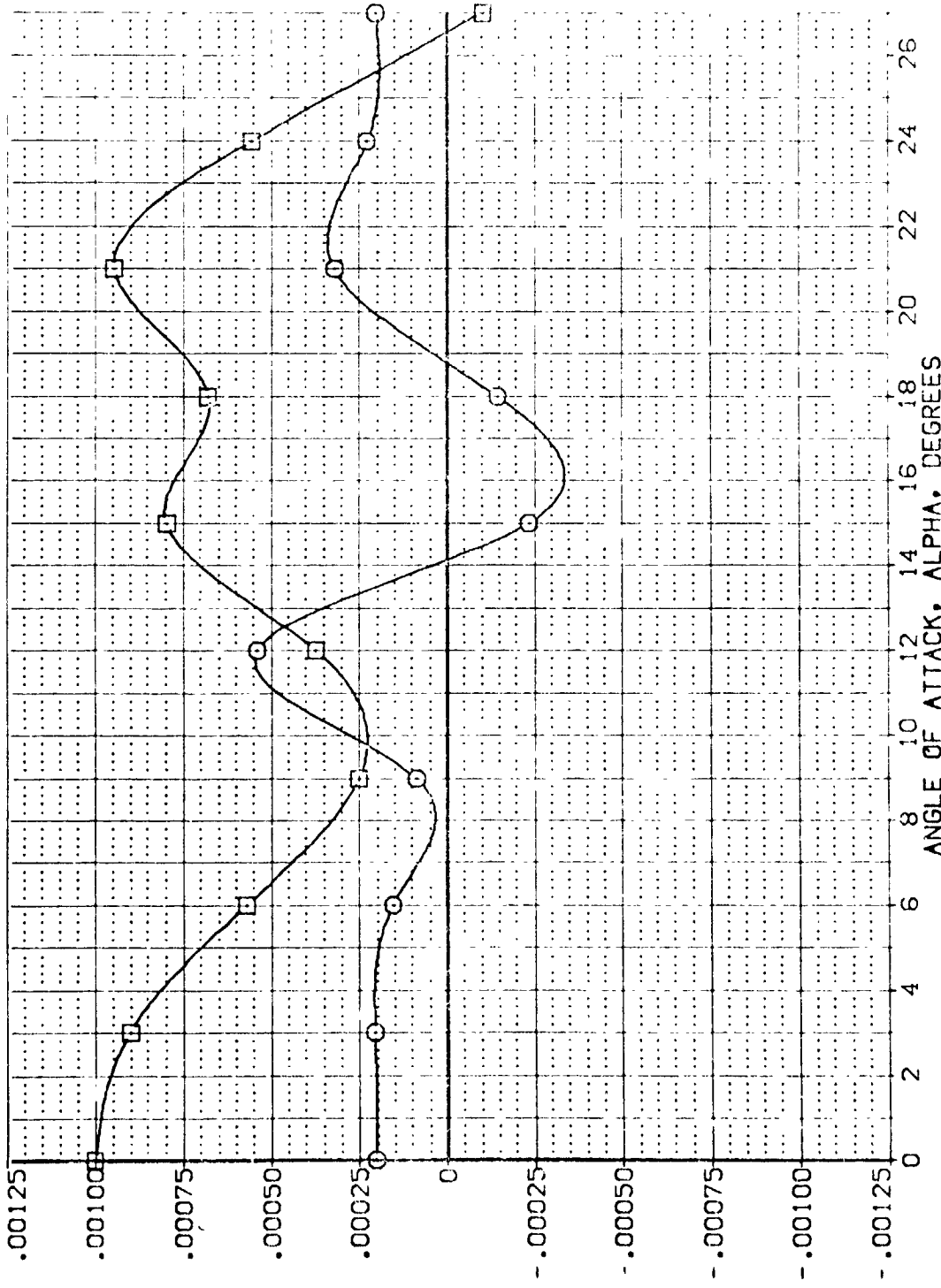


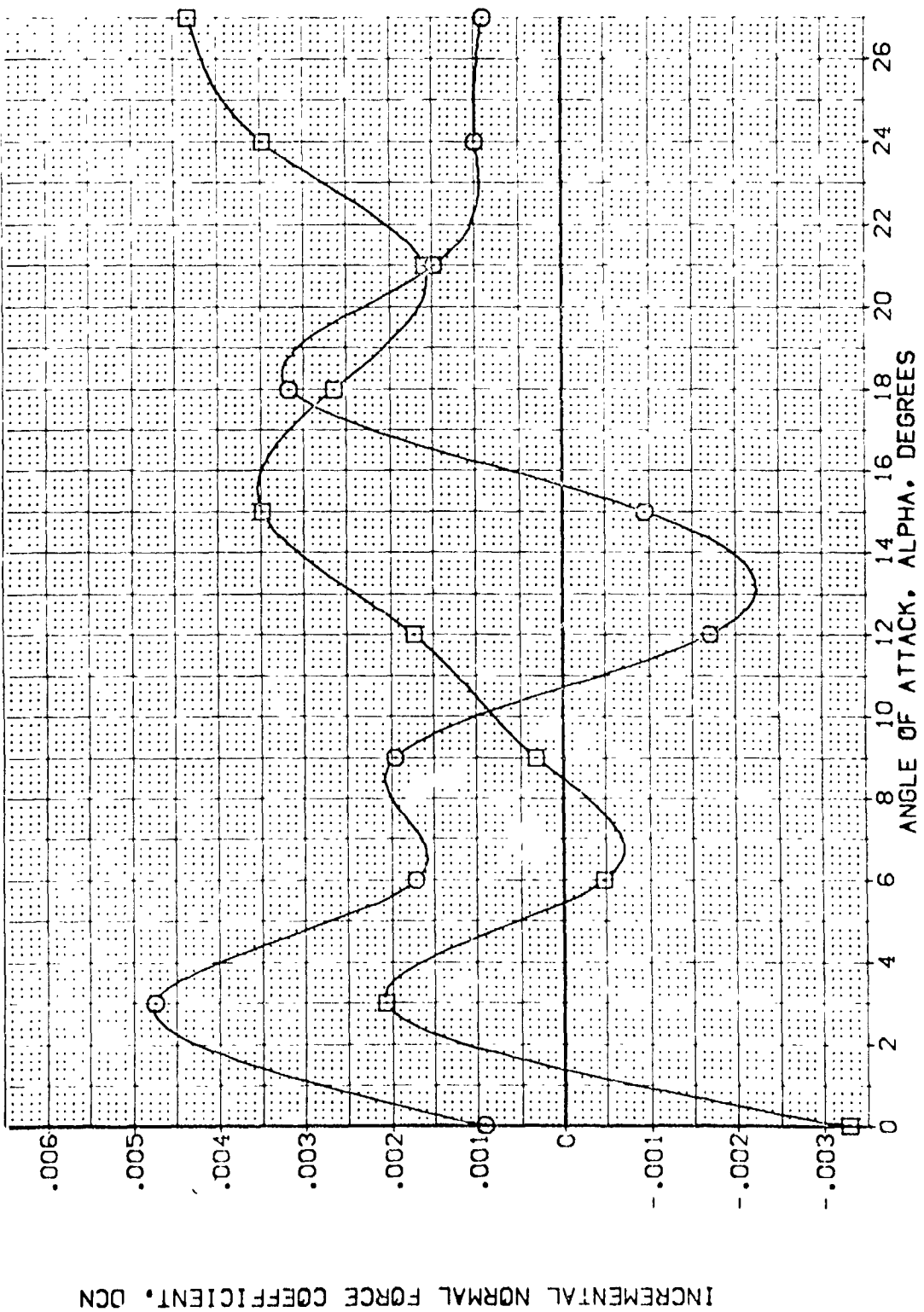
FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B) MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[VEK050]	ARC 97-747 OAS38 B C M F V1 V	NOM. RNVL SEAL. EL	ELEVON	A1L1P1N	BOFLAP	SPOBRK	SREF	2.4210	50. FT.
[VEK049]	ARC 97-747 OAS38 B C M F V1 V	NOM. RNVL SEAL. EL	15.000	.000	16.300	55.000	LREF	14.2440	IN.
				.000	16.300	55.000	BREF	28.1004	IN.
							XMRP	32.5010	IN.
							ZMRP	.0000	IN.
							SCALE	11.2500	IN.
								.0000	SCALE



INCREMENTAL NORMAL FORCE COEFFICIENT, DCN

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: 9
 CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V; NOM. RNV/L SEAL. EL
 (VEK050) (VEK049) ARC 97-747 OAS38 B C M F V; NOM. RNV/L SEAL. EL
 REFERENCE INFORMATION: SREF 7.4710 SQ. FT.
 LREF 14.2420
 EREF 26.1100
 XREF 32.1000
 YREF 11.2300
 ZREF 11.2300
 SCALE: 11.2300

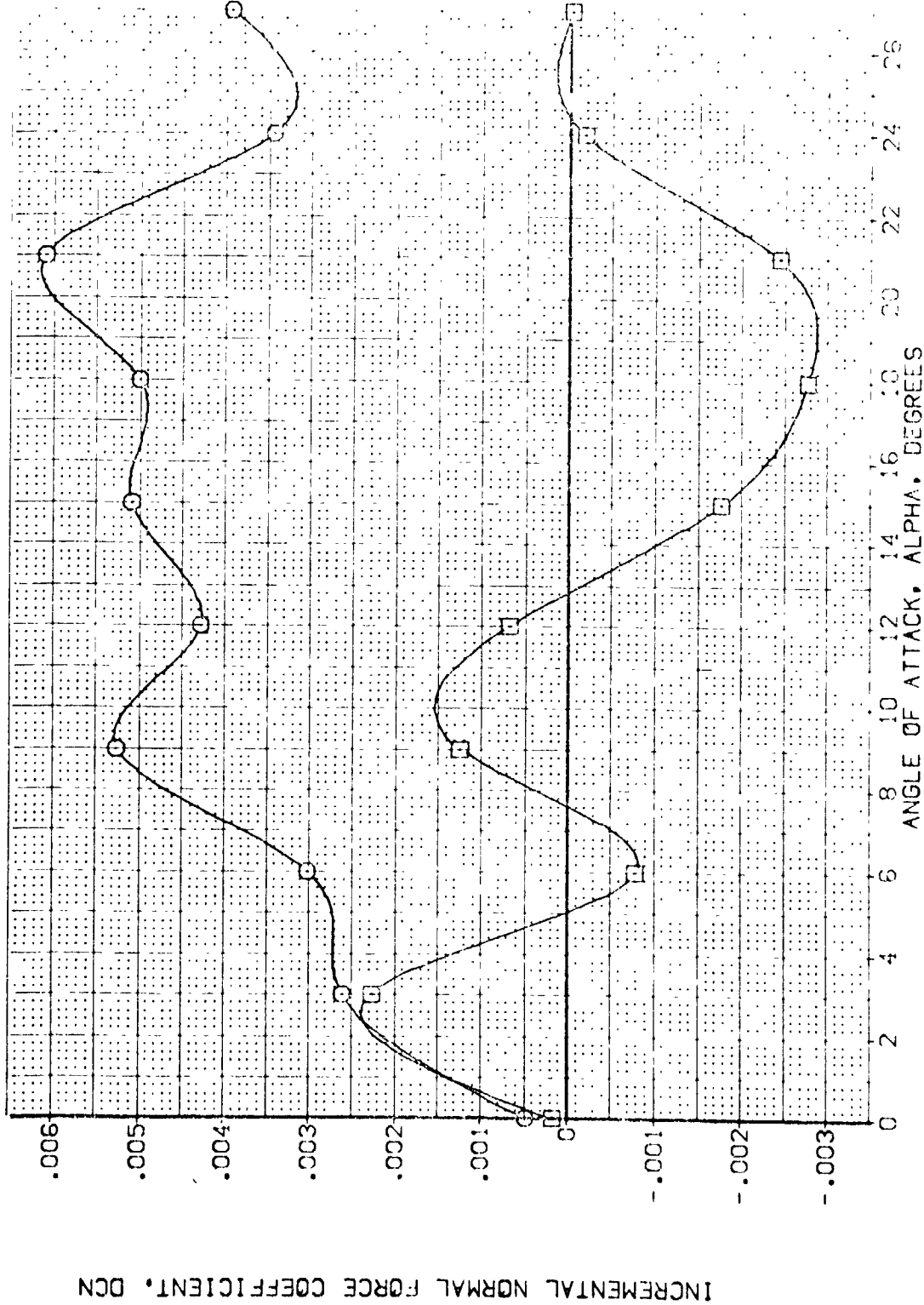
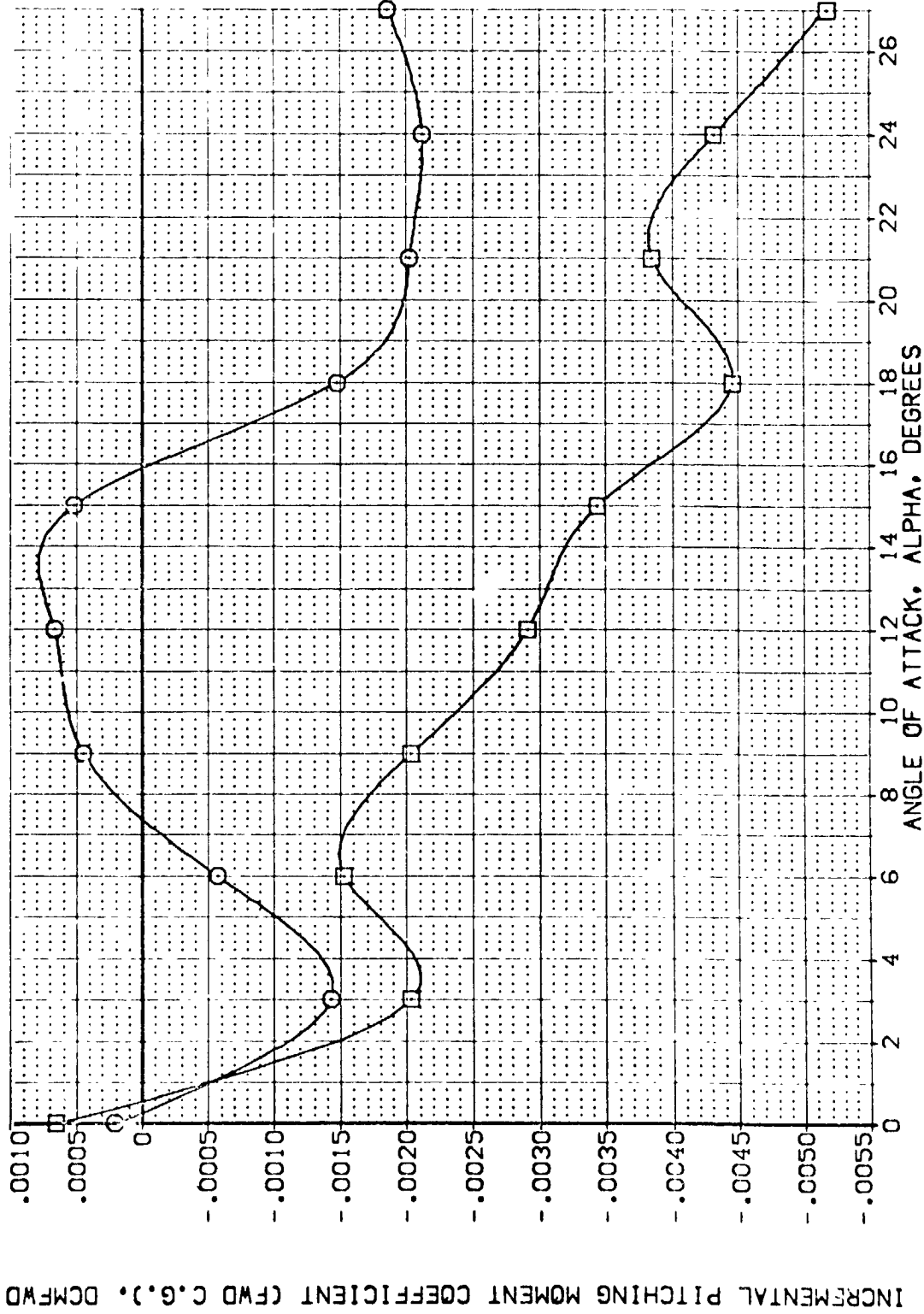


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{VEK050}	ARC 97-747 DAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ.FT.
{VEK049}	ARC 97-747 DAS38 B C M F VI V	15.000	.000	16.300	55.000	LREF 14.2440 IN.
						BREF 29.1004 IN.
						XMAP 32.0010 IN.
						YMAP .0000 IN.
						ZMAP 11.2500 IN.
						SCALE .0000 SCALE



INCREMENTAL PITCHING MOMENT COEFFICIENT (FWD C.G.), DCMFWD

FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [VER050] 9 APC 97-747 0A538 B C M F VI V
 [VER049] 9 AKA 97-747 0A538 B C M F VI V

ELEVON AIRLON BDF LAP SPOBRM
 .000 .000 15.000 55.000
 15.000 .000 .6.300 55.000

REFERENCE INFORMATION
 SREF 2.4210 SS FT.
 LREF 14.7210
 EREF 28.1094
 XMCP 22.0000
 YMCP 1.0000
 ZMTP 11.2000 IN.
 SCALE .0010 SCALE

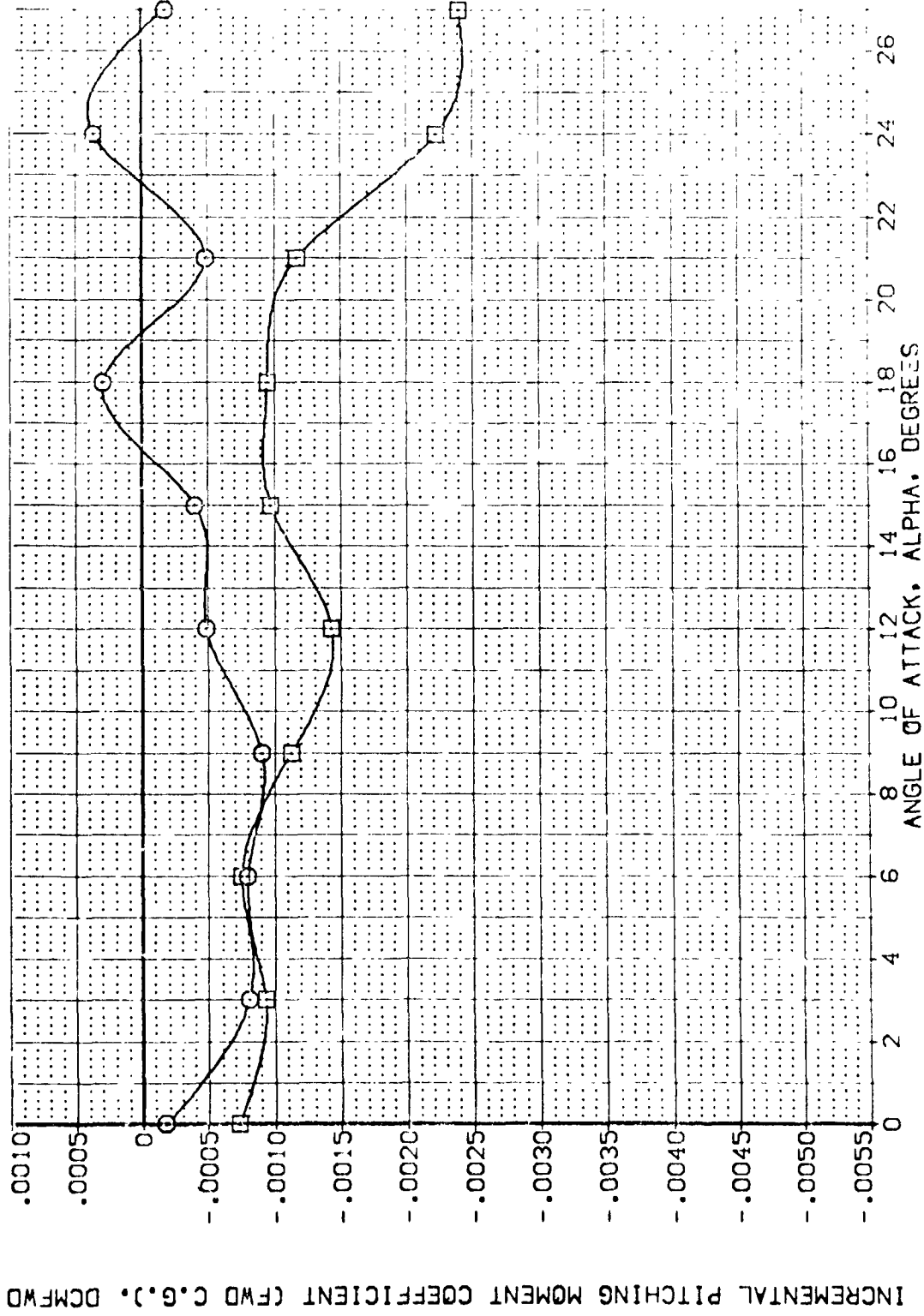


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	EOF LAP	SPODBRK	REFERENCE INFORMATION
(VEK050)	ARC 97-747 OAS38 B C M F VI V	.000	.000	16.300	55.000	SREF 2.4210 SQ. FT.
(VEK049)	ARC 97-747 OAS38 B C M F VI V	15.000	.000	16.300	55.000	LREF 14.2440 IN.
						EREF 28.1004 IN.
						XMXP 32.0010 IN.
						YMXP .0000 IN.
						ZMXP 11.2500 IN.
						SCALE .0350 SCALE

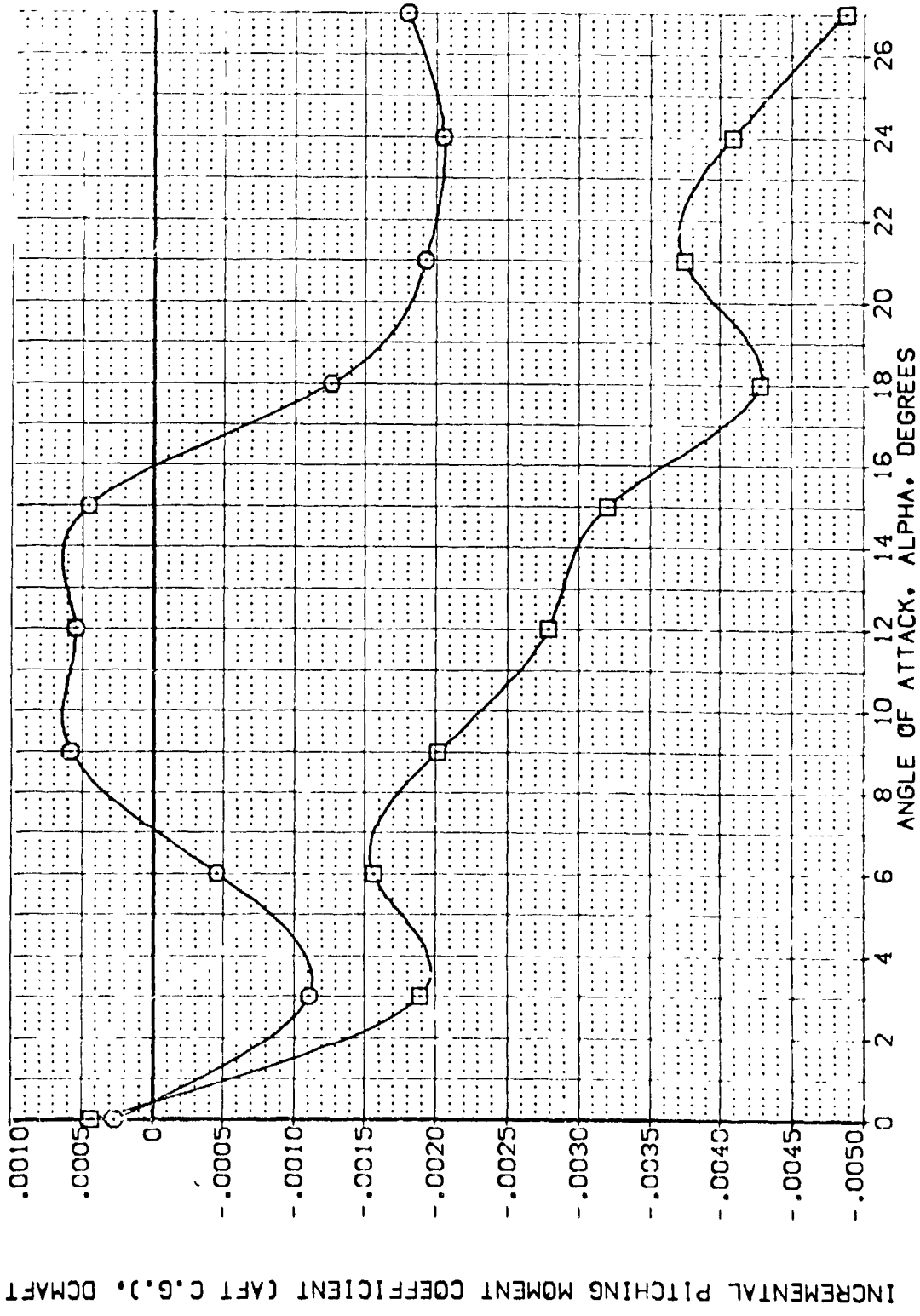


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(A)MACH = 1.60



DATA SET SYMBOL (VER050) (VER049)

CONFIGURATION DESCRIPTION
 ARC 97-747 0A538 B C M F V I V
 ARC 97-747 0A538 B C M F V I V

ELEVON ALLPRN BOFT AP SPOBRK
 .000 16.300 55.000
 .000 16.300 55.000

REFERENCE INFORMATION
 SREF 2.4210
 LPREF 14.2150
 GPREF 28.1104
 XPROP 32.0000
 YPROP 32.0000
 ZPROP 11.0000
 SCALE 11.0000

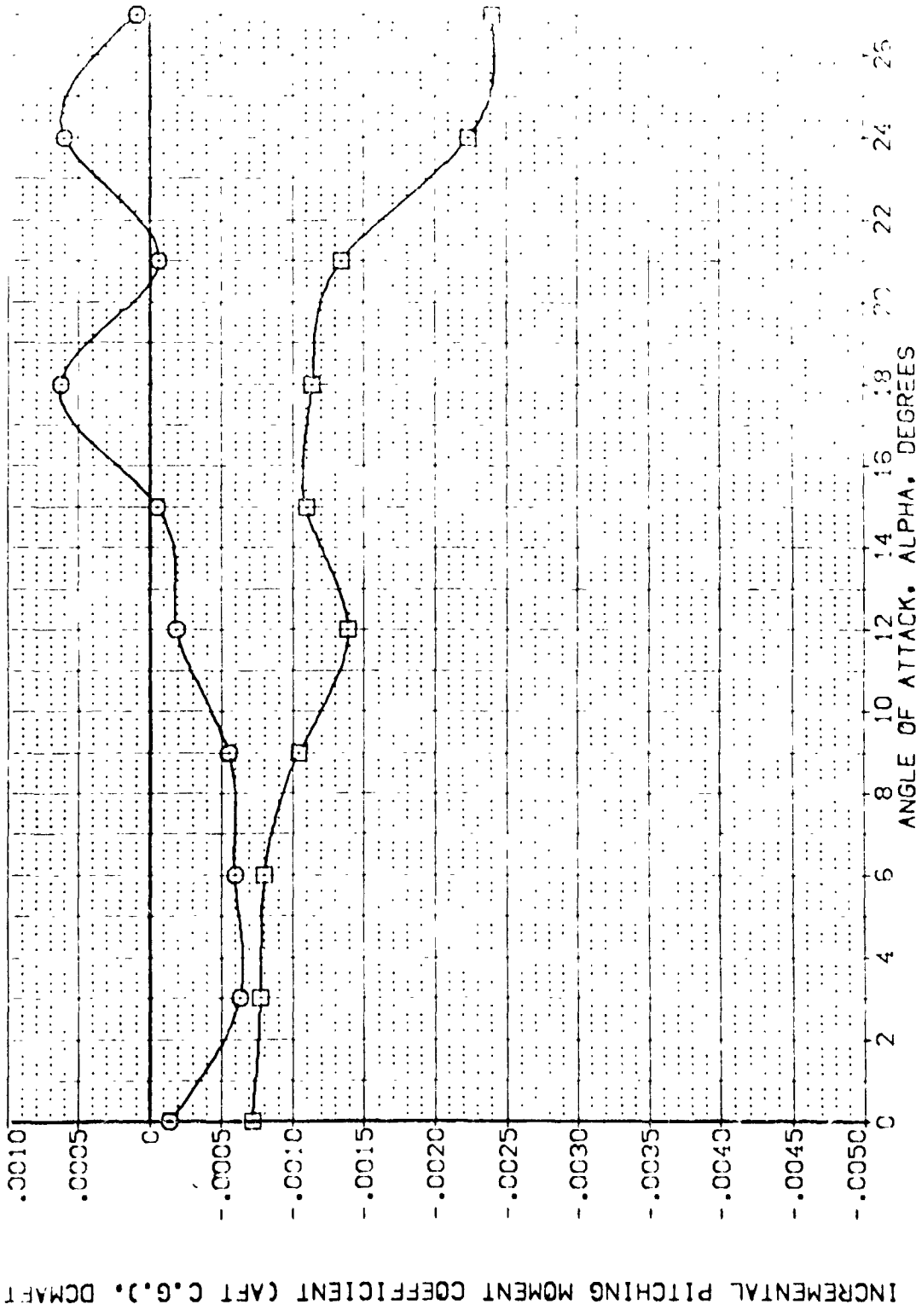


FIG. 10 SEALED ELEVON SPLIT EFFECTS

(B)MACH = 2.00



SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRLRN	REFERENCE INFORMATION
[AFK012]	ARC 97-747 OAS38 B C M F V1 V	.000	-11.700	55.000	.000	SREF 2.4210 SQ.FT.
[AEK013]	ARC 97-747 OAS38 B C M F V1 V	10.000	-11.700	55.000	.000	LREF 14.2440 IN.
[AEP014]	ARC 97-747 OAS38 B C M F V1 V	20.000	-11.700	55.000	.000	EREF 20.1004 IN.
						XMRP 32.3010 IN.
						ZMRP .0000 IN.
						SCALE 11.2500 IN.
						SCALE .0000

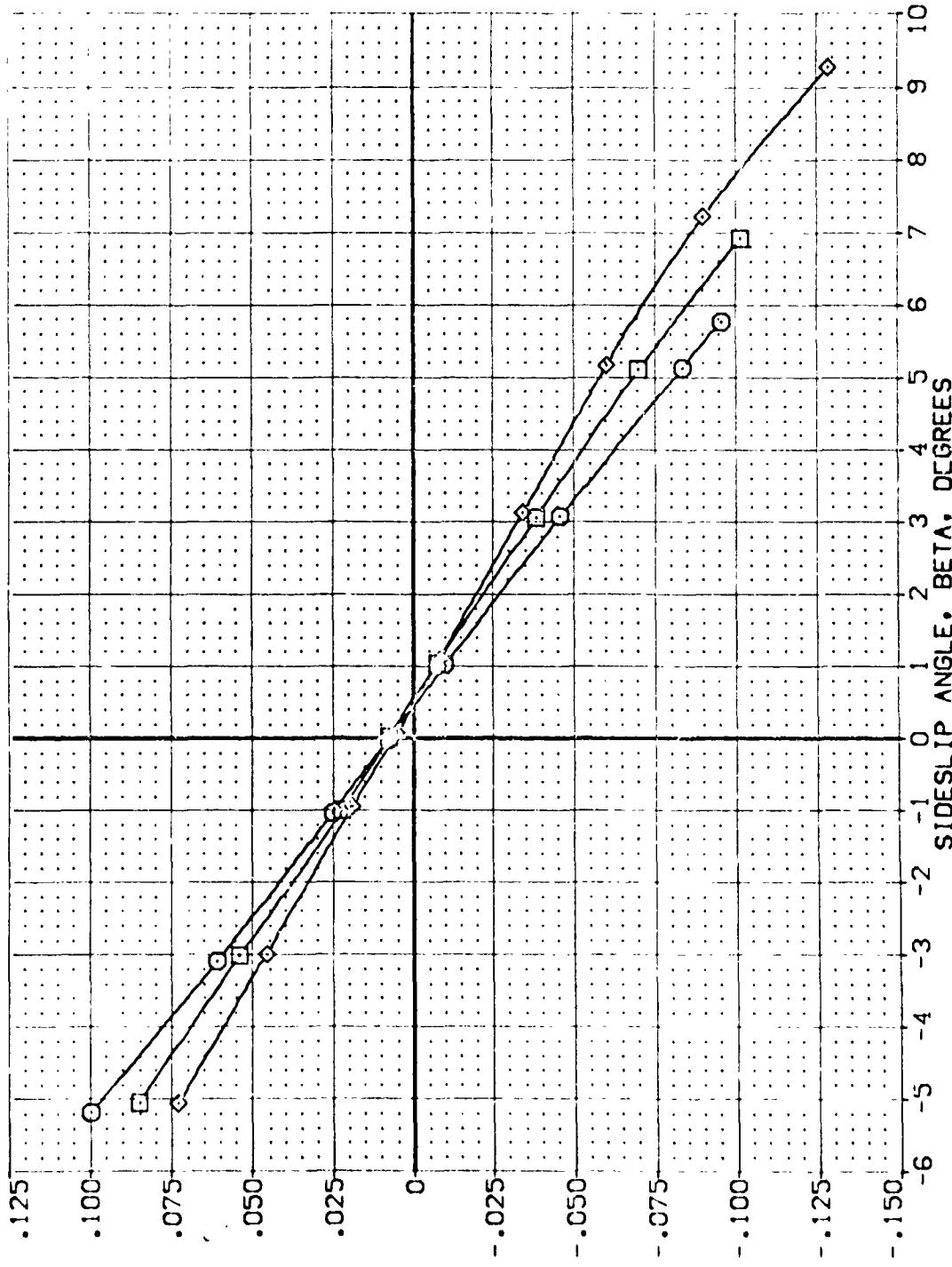


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747 D4S38 B C M F VI V NOM. RV/L
 ARC 97-747 D4S38 B C M F VI V NOM. RV/L
 ARC 97-747 D4S38 B C M F VI V NOM. RV/L

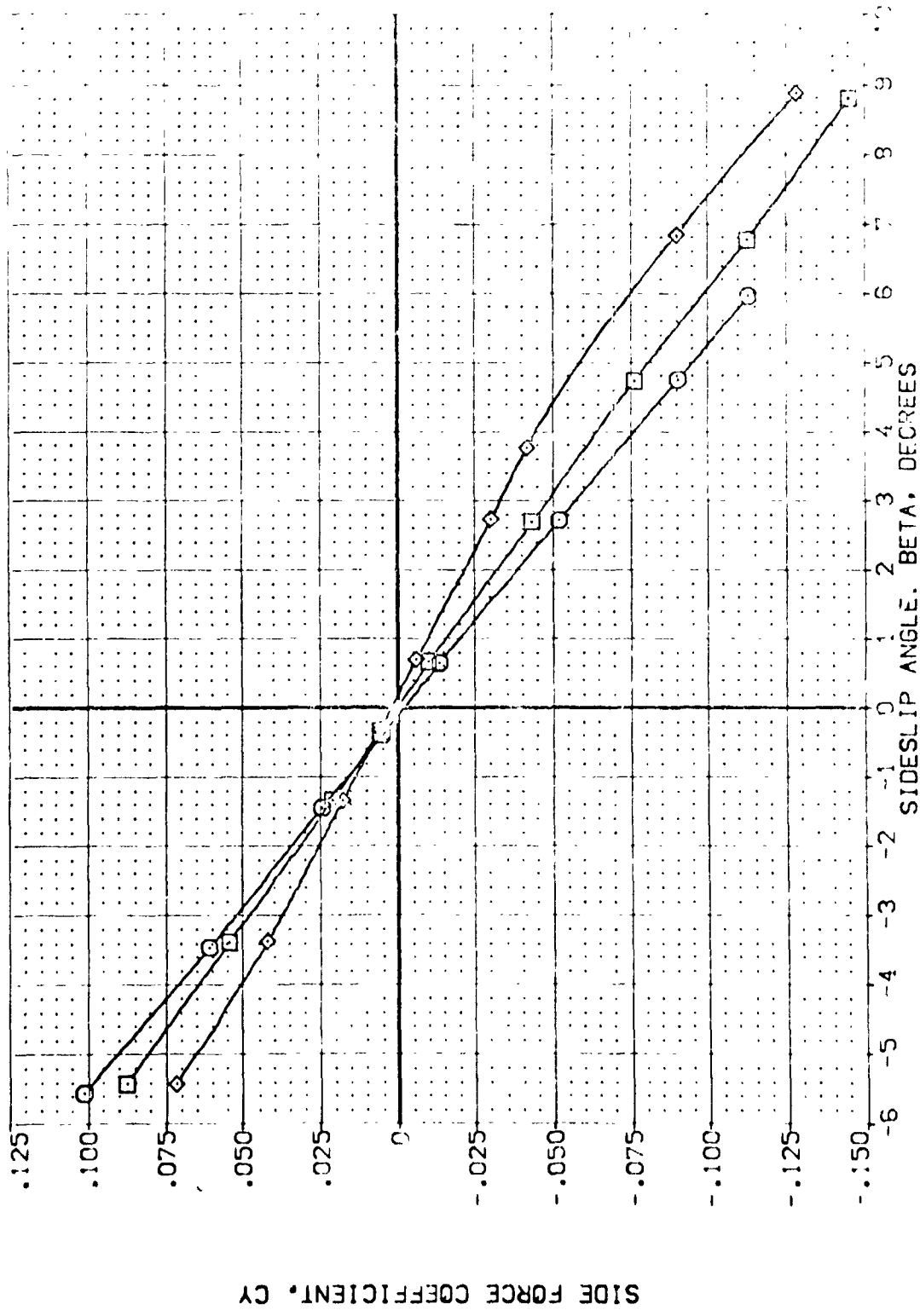
ALPHA .000
 10.000
 20.000

BOFLAP -11.700
 -11.700
 -11.700

SPOBRK .000
 .000
 .000

AILPRN .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ. T.
 LREF 14.2740 IN.
 XREF 20.1001 IN.
 YREF 32.0016 IN.
 ZREF 0.0000 IN.
 ZMPP 11.2500 IN.
 SCALE .0000



SIDE FORCE COEFFICIENT, CY

SIDESLIP ANGLE, BETA, DEGREES

FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ALPHA	BOFLAP	SPEEDK	AIRLIGN	REFERENCE INFORMATION
(AEK012)	ARC 97-747 CAS03 B C M F VI V	NON.	RV/L	.000	-11.700	55.000	.000	SREF 2.4210
(AEK013)	ARC 97-747 CAS03 B C M F VI V	NON.	RV/L	10.000	-11.700	55.000	.000	LRREF 14.2040
(AEK014)	ARC 97-747 CAS03 B C M F VI V	NON.	RV/L	20.000	-11.700	55.000	.000	BRREF 27.1000
								XRREF 32.0010
								YMRP 0.0000
								ZMRP 11.2500
								SCALE .0500

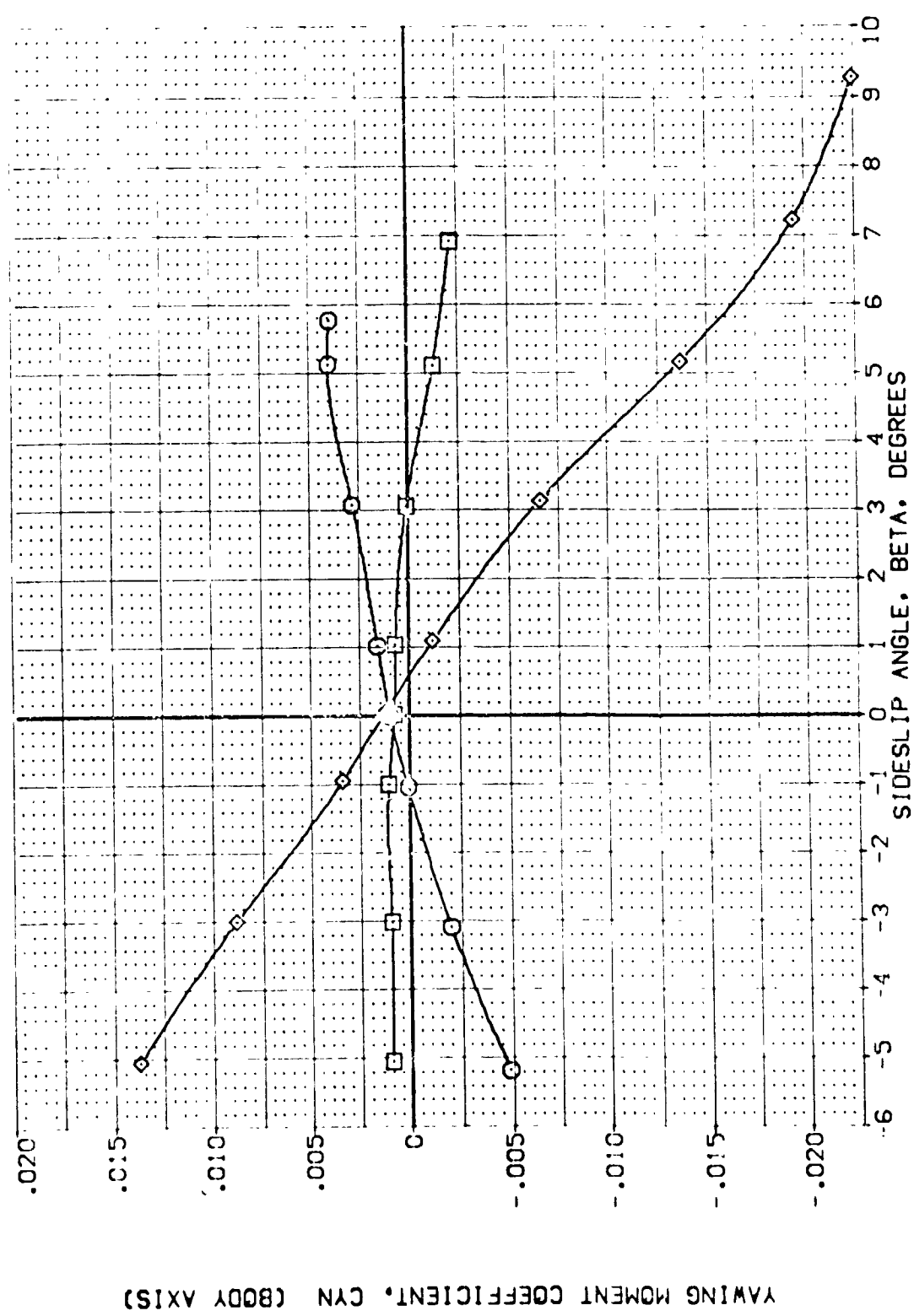


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 1

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON. RNVL	ALPHA	BOFLAP	SFOBRK	AIRLON	REFERENCE INFORMATION
(AEK012)	ARC 97-747 OAS38 B C H F VI V	NON. RNVL	.000	-11.700	55.000	.000	SREF 2.4210 SCALE
(AEK013)	ARC 97-747 OAS38 B C H F VI V	NON. RNVL	10.000	-11.700	55.000	.000	LREF 14.2840 SCALE
(AEK014)	ARC 97-747 OAS38 B C H F VI V	NON. RNVL	20.000	-11.700	55.000	.000	RREF 28.1240 SCALE
							YREF 32.1000 SCALE
							ZREF 11.0000 SCALE
							SCALE 10.0000 SCALE

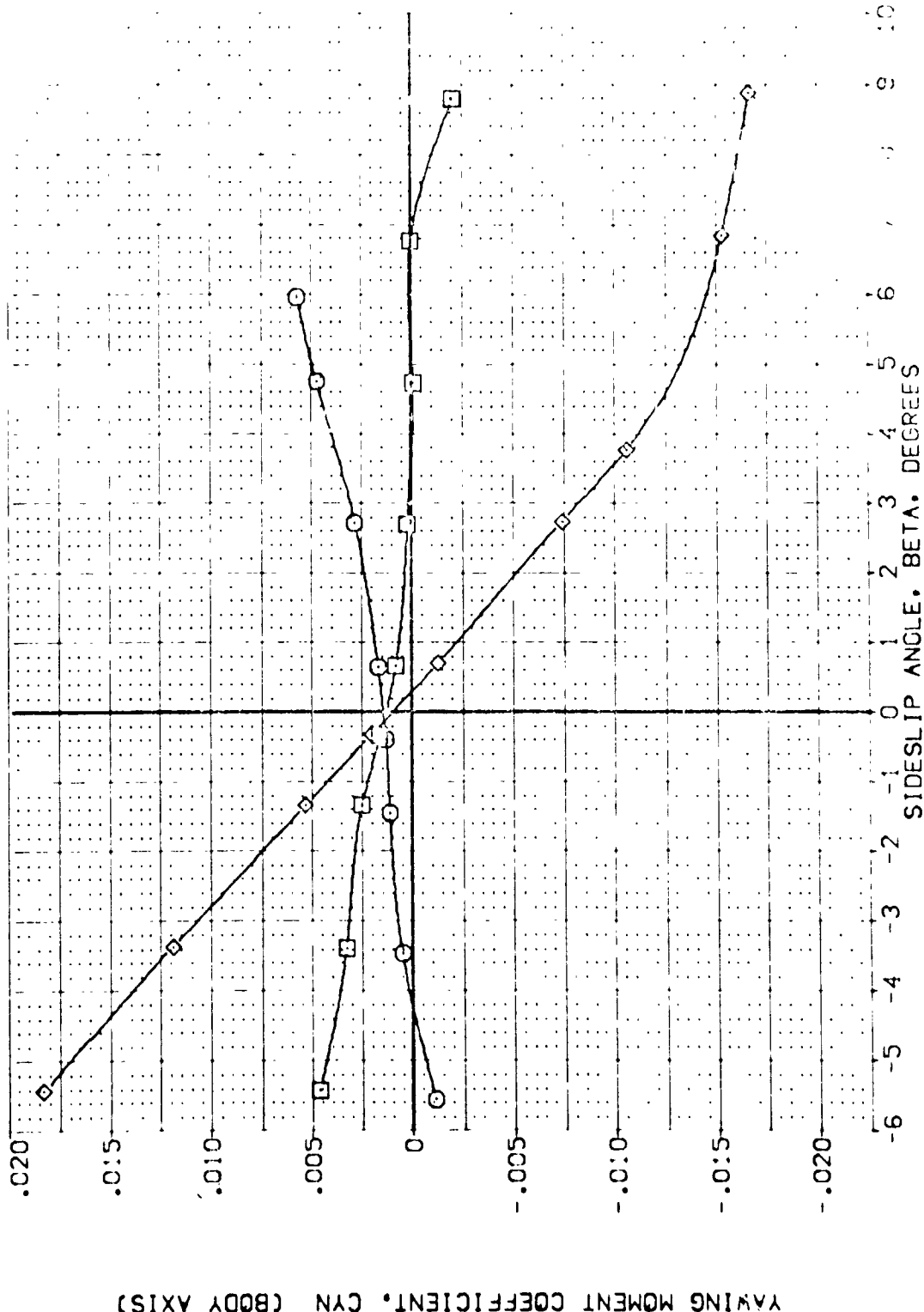


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART I

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SFOBRK	AIRLON	REFERENCE INFORMATION
(AEQ12)	ARC 97-747 DAS38 B C M F V) V	.000	-11.700	55.000	.000	SREF 2.4210 50.FT.
(AEP013)	ARC 97-747 DAS38 B C M F V) V	10.000	-11.700	55.000	.000	LREF 14.2840 IN.
(AEP014)	ARC 97-747 DAS38 B C M F V) V	20.000	-11.700	55.000	.000	EREF 29.1004 IN.
						YMREF 32.3010 IN.
						ZMREF .0000 IN.
						ZMREF 11.2500 IN.
						SCALE .0000 SCALE

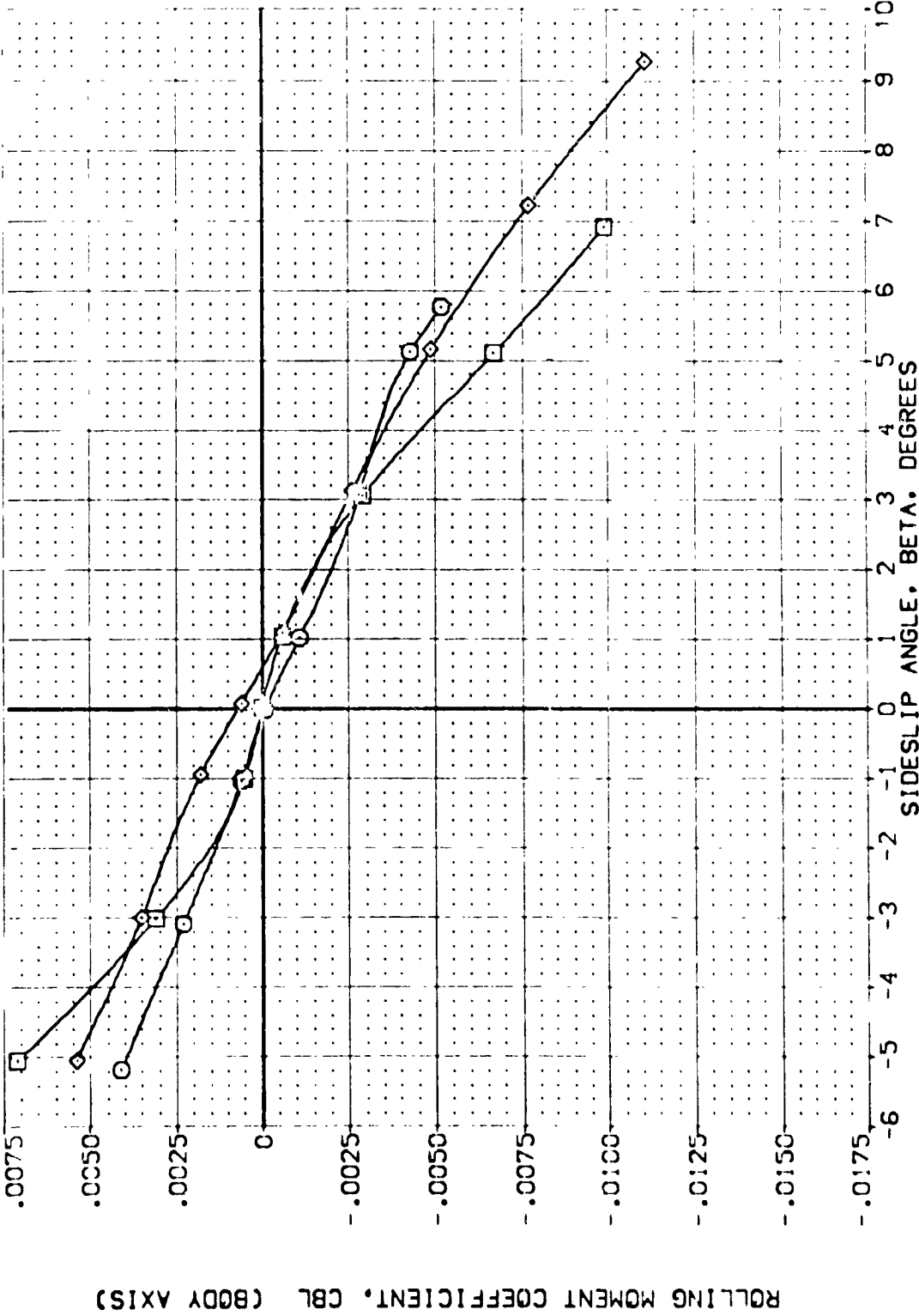


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART I

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK012) □ ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 (AEK013) ○ ARC 97-747 CAS33 B C M F VI V NOM. RV/L
 (AEK014) ◇ ARC 97-747 CAS33 B C M F VI V NOM. RV/L

A MA BOFLAP SPOBRK AILTRN
 .000 -11.700 55.000 .000
 10.000 -11.700 55.000 .000
 20.000 -11.700 55.000 .000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XREF 32.1010
 YREF 11.0000
 ZREF 11.0000
 SCALE 11.0000

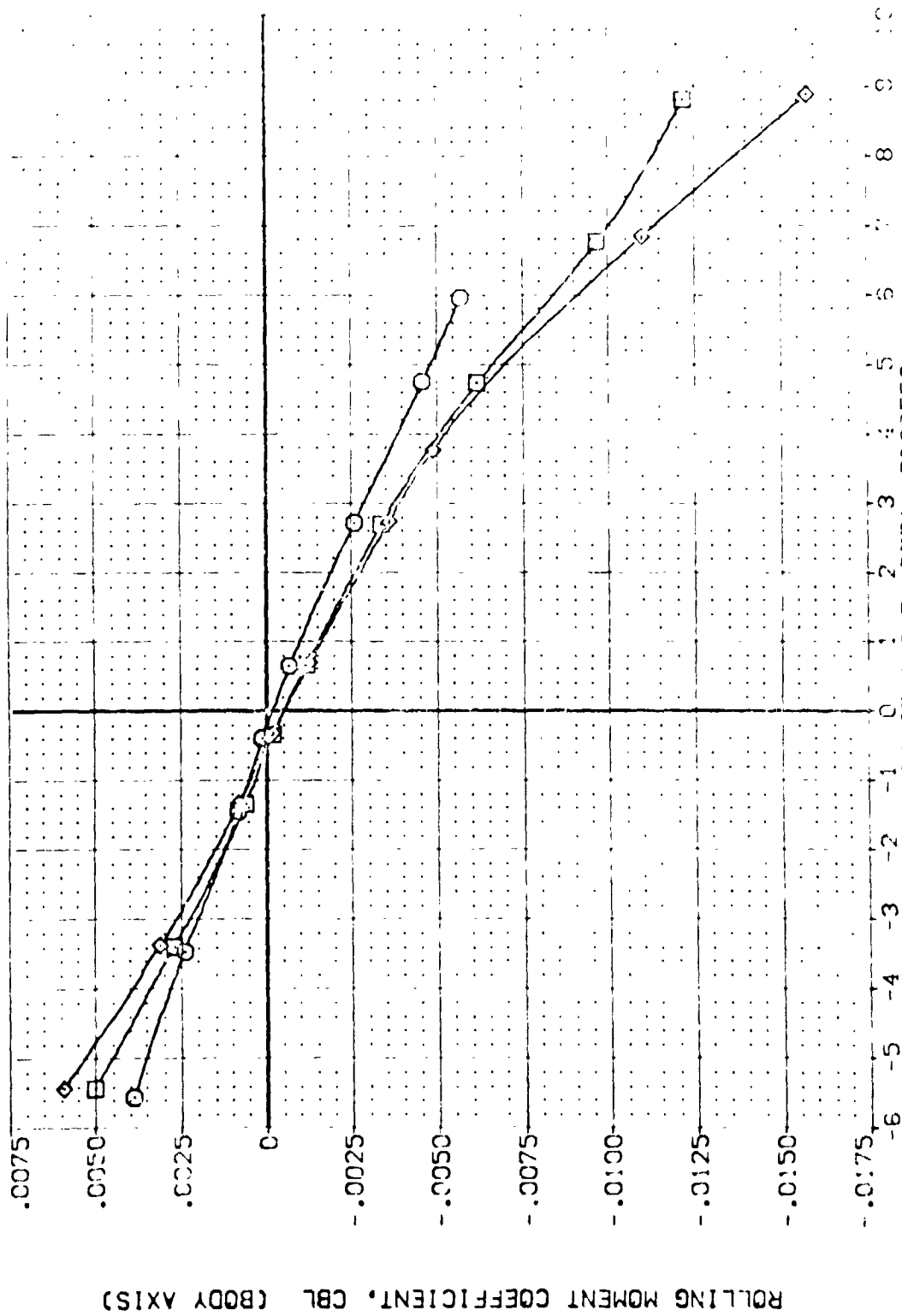


FIG. 11 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART I

(8)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON:	RVAL	ALPHA	BOFLAP	SPDRBK	AILRON	REFERENCE INFORMATION
{AE-025}	ARC 97-747 CA529 B C M F VI V	NON:	RVAL	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
{AE-026}	ARC 97-747 CA529 B C M F VI V	NON:	RVAL	10.000	-11.700	25.000	.000	UREF 14.2440 IN.
{AE-027}	ARC 97-747 CA538 B C M F VI V	NON:	RVAL	20.000	-11.700	25.000	.000	SCALE 20.000 IN.
								XMRP 32.0000 IN.
								YMRP .0000 IN.
								ZMRP 11.2600 IN.
								SCALE .0000 SCALE

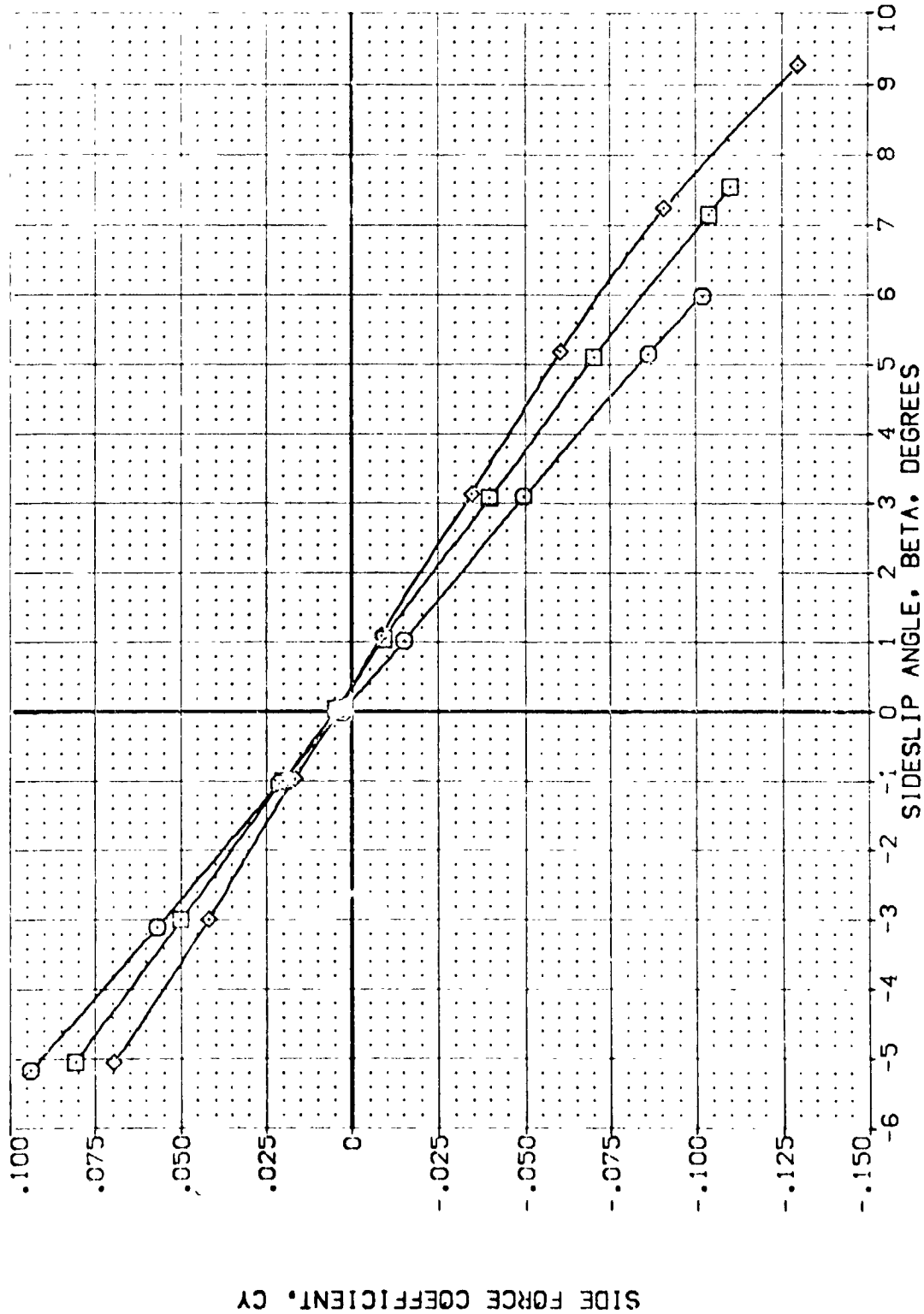


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A)MACH = 1.60

SIDE FORCE COEFFICIENT, CY

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPODBRK	AIRLORN	REFERENCE INFORMATION
[AER025]	ARC 97-747 0A539 B C M F V1 V	.000	-11.700	25.000	.000	SREF 2.4210
[AER026]	ARC 97-747 0A538 B C M F V1 V	10.000	-11.700	25.000	.000	LREF 14.2440
[AER027]	ARC 97-747 0A538 B C M F V1 V	20.000	-11.700	25.000	.000	YREF 20.1000
						ZREF 32.1000
						YMRP .0000
						ZMRP 11.2000
						SCALE 10.0000

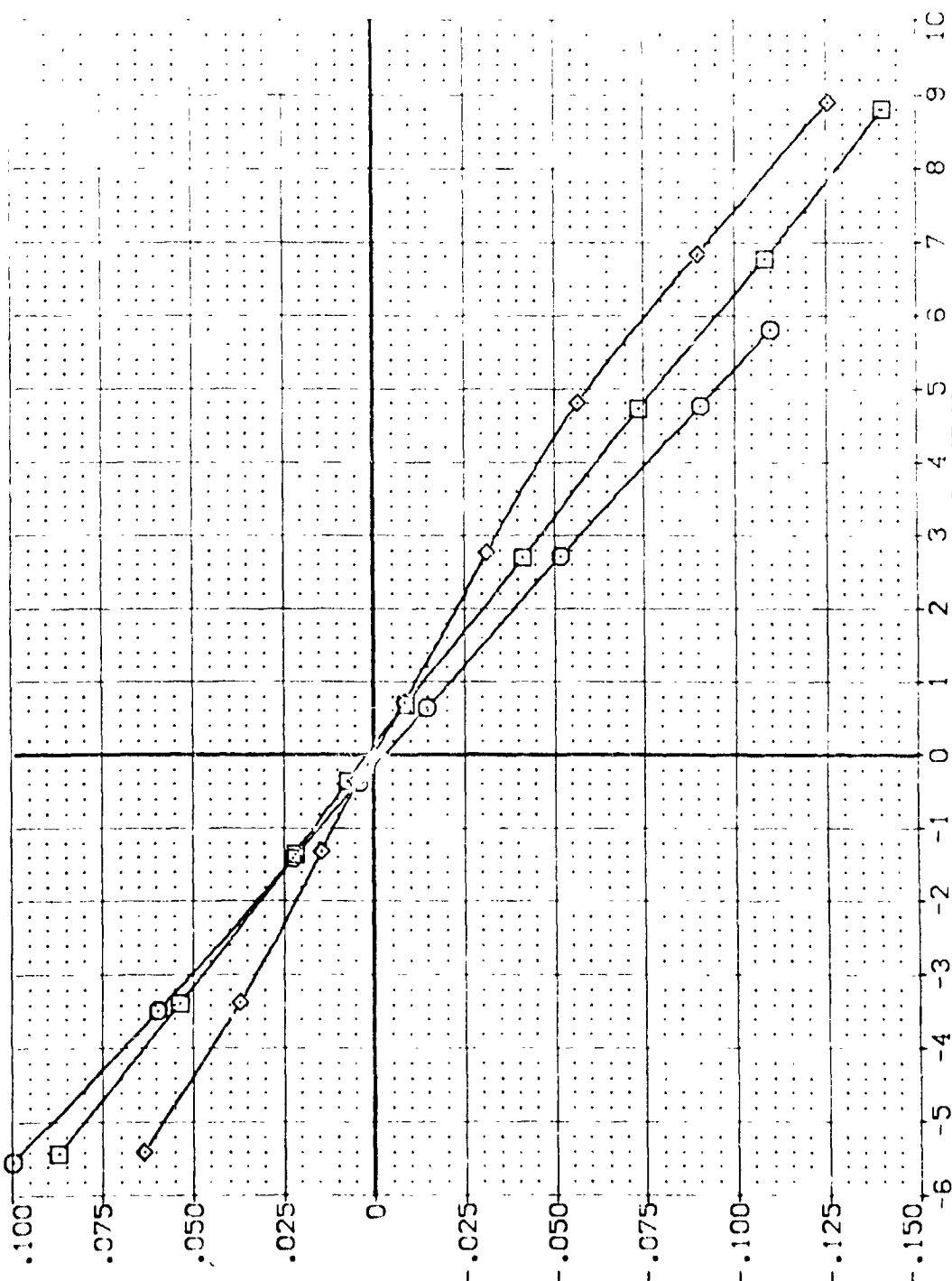
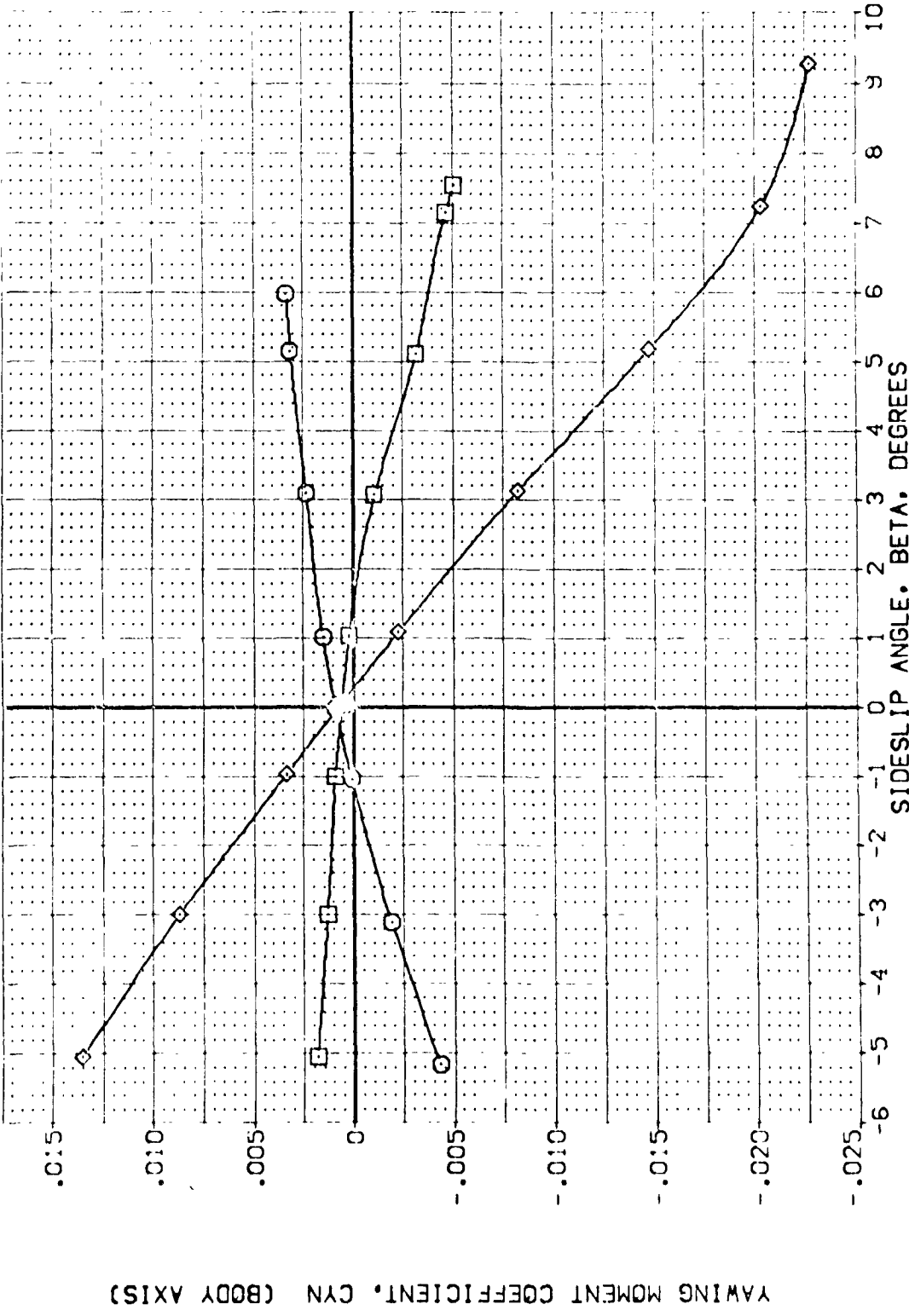


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	'ALPHA	BOFLAP	SPOBRK	AIRLEN	REFERENCE INFORMATION
{AEK025}	ARC 97-747 CAS33 B C M F V1 V	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
{AEK026}	ARC 97-747 CAS33 B C M F V1 V	10.000	-11.700	25.000	.000	LREF 14.2440 IN.
{AEK027}	ARC 97-747 CAS33 B C M F V1 V	20.000	-11.700	25.000	.000	EREF 23.0000 IN.
						WREF 32.0010 IN.
						YREF 11.0000 IN.
						ZREF 11.2500 IN.
						SCALE .0000



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AER025) □ ARC 97-747 CA538 B C M F V I V NO. R/V L
 (AER025) ○ ARC 97-747 CA538 B C M F V I V NO. R/V L
 (AER025) ◇ ARC 97-747 CA538 B C M F V I V NO. R/V L

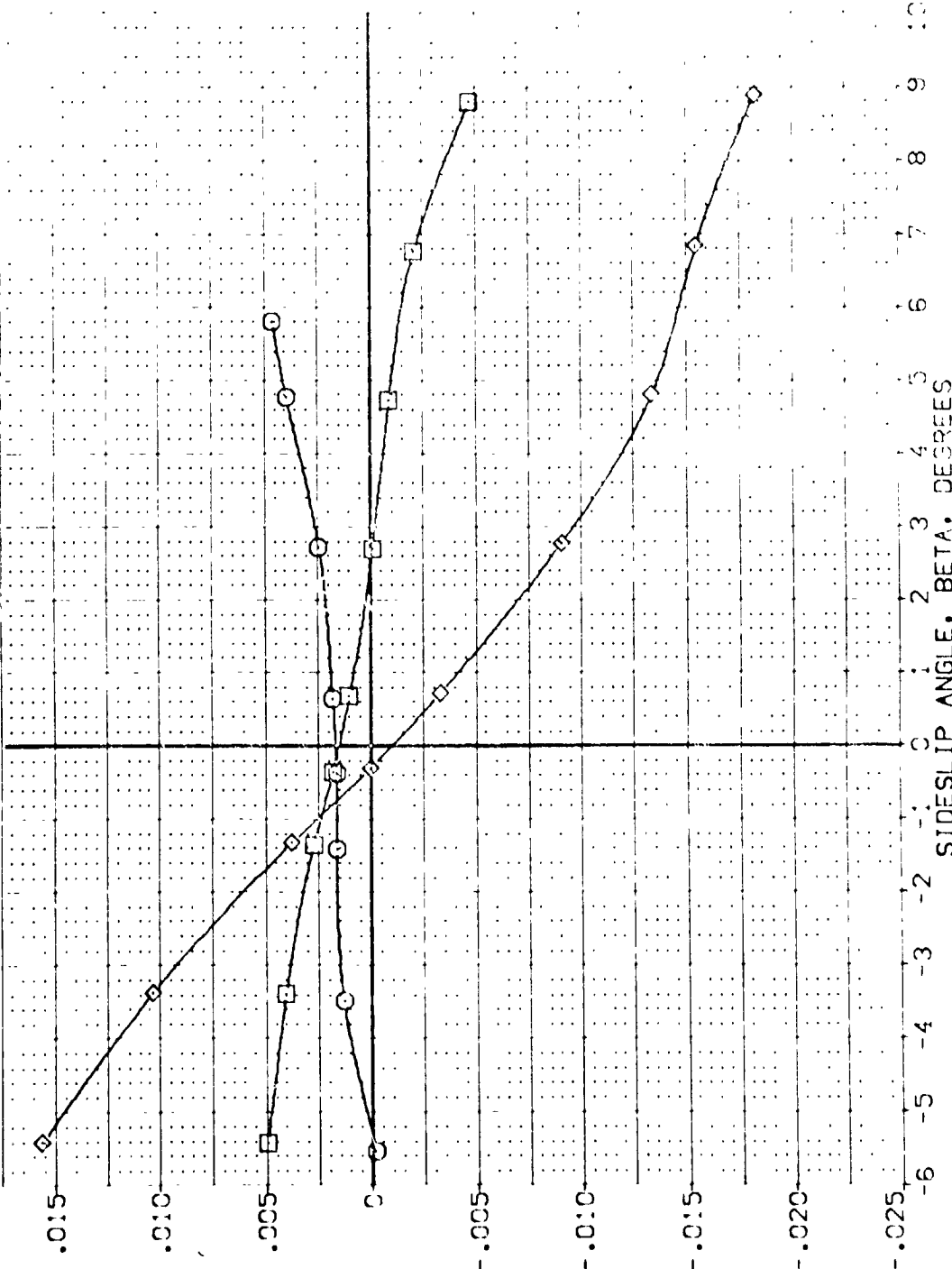
ALPHA .000
 10.000
 20.000

BOFLAP -11.700
 -11.700
 -11.700

SPDBRK 25.000
 25.000
 25.000

AIRCR: .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 PREF 23.1104
 ZREF 32.1104
 ZMAP 11.7000
 SCALE 11.7000



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MAC = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRLON	REFERENCE INFORMATION
{AE1025}	ARC 97-747 CAS28 B C M F V I V	.000	-11.700	25.000	.000	SREF 2.4210 SQ.FT.
{AE1026}	ARC 97-747 CAS28 B C M F V I V	10.000	-11.700	25.000	.000	LREF 14.2740 IN.
{AE1027}	ARC 97-747 CAS28 B C M F V I V	20.000	-11.700	25.000	.000	EAREF 28.1004 IN.
						YMPP 32.3010 IN.
						ZMPP .0000 IN.
						SCALE 11.2500 IN. SCALE

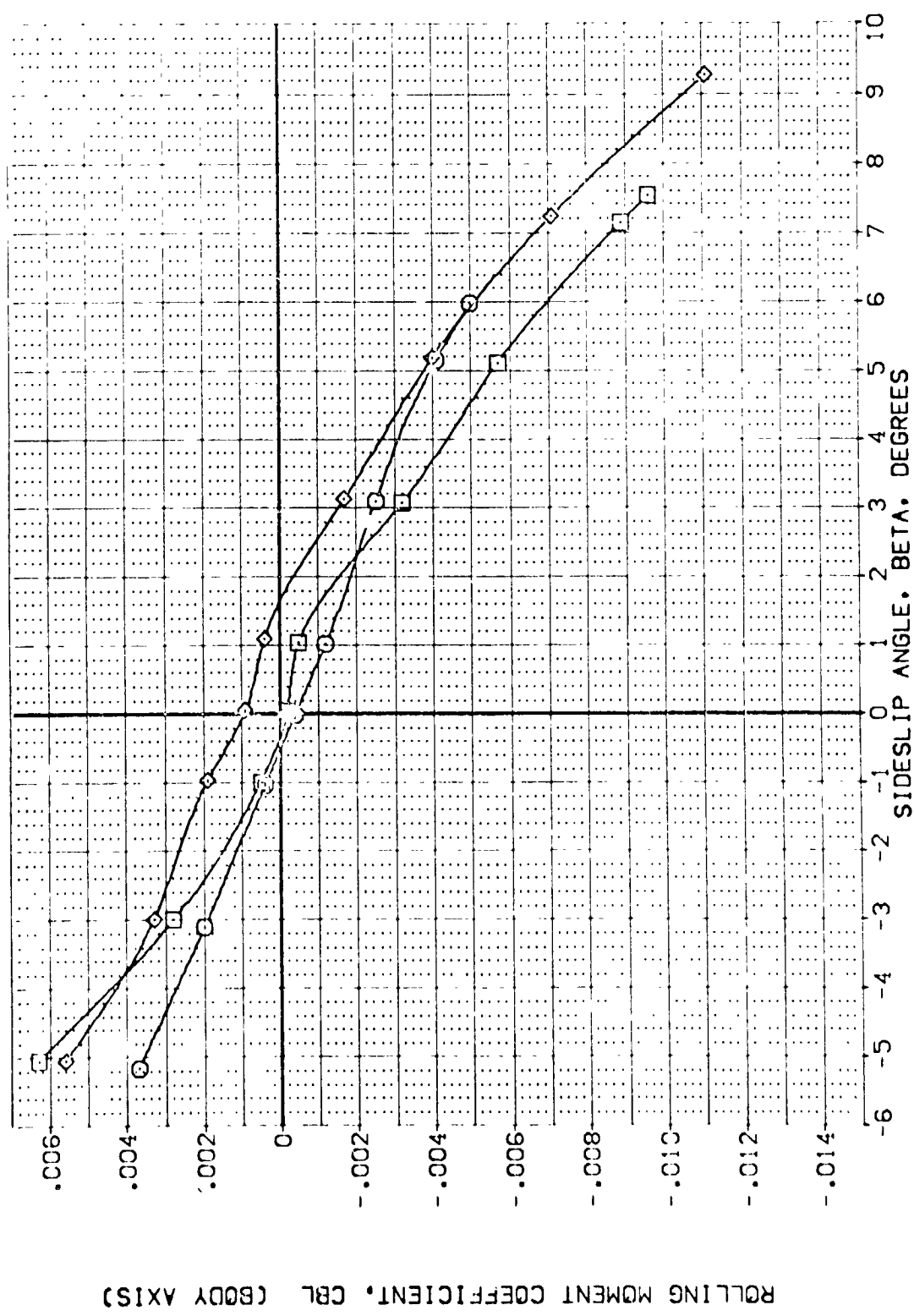


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REF. INCLINATION	SCALE
(AEP025)	ARC 97-747 CAS38 B C M F V: V	2.4210	11.0000
(AEP026)	ARC 97-747 CAS38 B C M F V: V	14.2115	11.0000
(AEP027)	ARC 97-747 CAS38 B C M F V: V	28.1410	11.0000

ALPHA	BOFLAP	SPEEDK	AIRLON
.000	-11.700	25.000	.000
10.000	-11.700	25.000	.030
20.000	-11.700	25.000	.060

REF. INCLINATION	SCALE
2.4210	11.0000
14.2115	11.0000
28.1410	11.0000

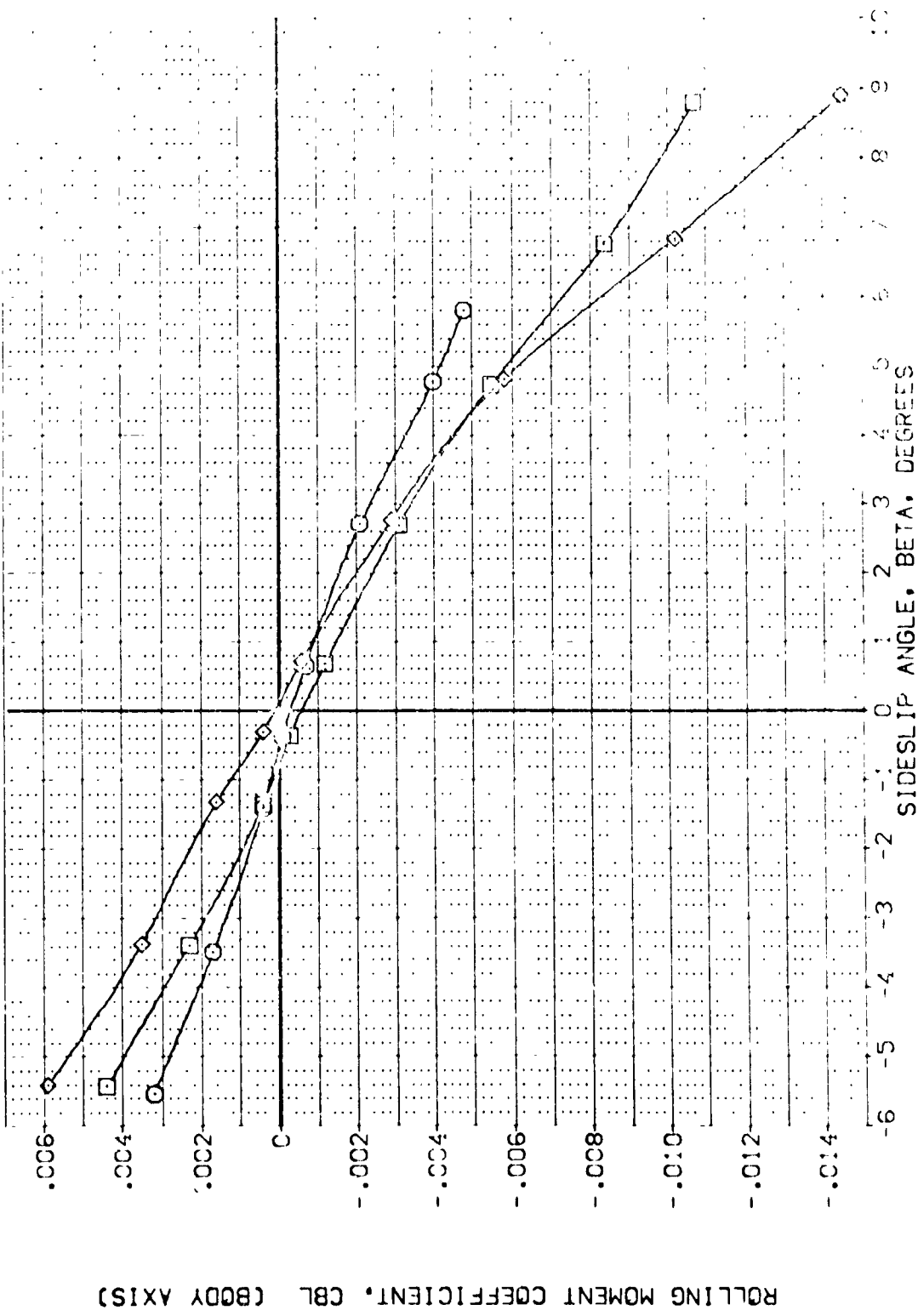


FIG. 12 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B) VACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	A1LRON	REFERENCE INFORMATION
(AEK038)	ARC 97-747 CAS38 B C M F V1 V	.000	-11.700	85.000	.000	SREF 2.4210 SQ.FT.
(AEK040)	ARC 97-747 CAS38 B C M F V1 V	10.000	-11.700	85.000	.000	LREF 14.2440 IN.
(AEK041)	ARC 97-747 CAS38 B C M F V1 V	20.000	-11.700	85.000	.000	BREF 28.1004 IN.
						XMPP 32.2010 IN.
						YMPP .0000 IN.
						ZMPP 11.2000 IN.
						SCALE .0000 SCALE

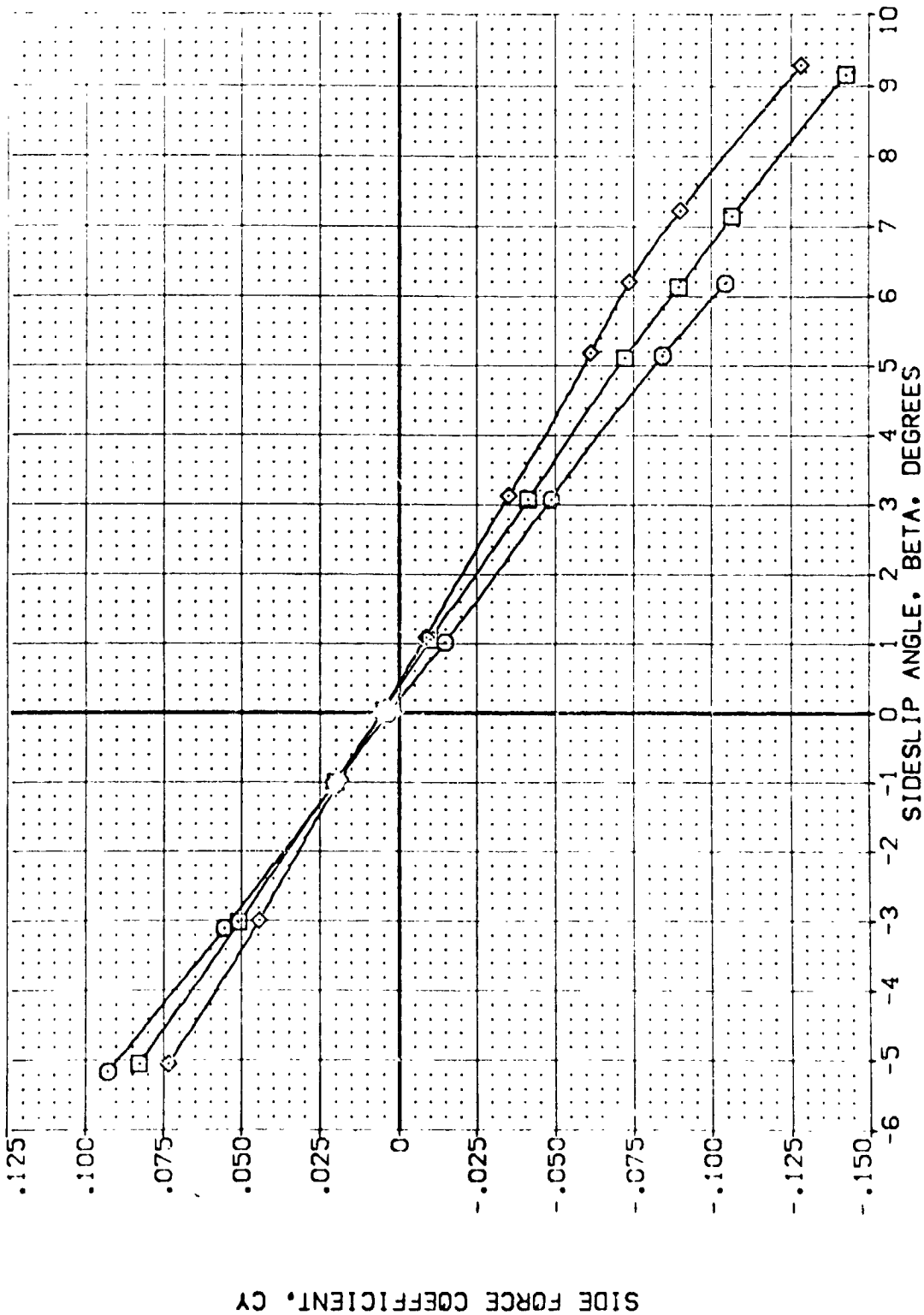


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(A)MACH = 1.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPEED	AIRLON	REFERENCE INFORMATION
(AEP039)	ARC 97-747 0A538 B C M F V1 V	.000	11.700	85.000	.000	2.4210
(AEP040)	ARC 97-747 0A533 B C M F V1 V	10.000	11.700	85.000	.000	14.2810
(AEP041)	ARC 97-747 0A533 B C M F V1 V	20.000	11.700	85.000	.000	32.1210

AUTO: 11.0000
 ZAUTO: 11.0000
 SCALE: 10.0000

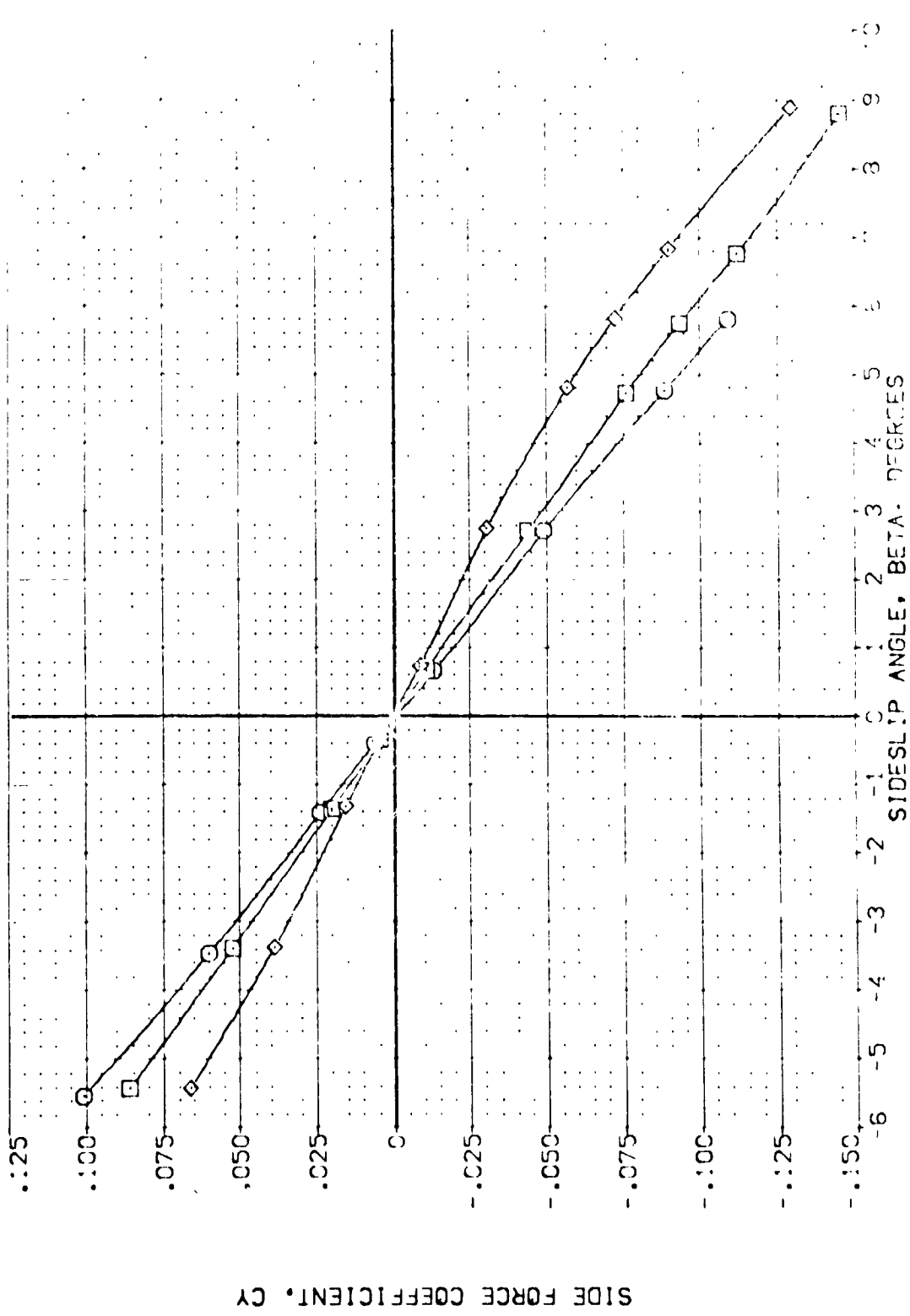


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(8)YAC = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AF039) ABC 97-747 04539 B C M E V I V NO. R/L
 (AF040) ABC 97-747 04539 B C M E V I V NO. R/L
 (AF041) ABC 97-747 04539 B C M E V I V NO. R/L
 (AF042) ABC 97-747 04539 B C M E V I V NO. R/L

ALPHA 0.000 10.000 20.000
 BOFLAP 1.700 1.700 1.700
 SPEEDM 05.000 65.000 85.000
 ALTPOS .000 .000 .000
 SPOKE 2.4210
 SCALE 1.0000
 REFERENCE INFORMATION:
 SPOKE 2.4210 SQ.FT.
 BOFLAP 1.7000 SQ.FT.
 SPEEDM 65.0000 SQ.FT.
 ALTPOS .0000 SQ.FT.
 SPOKE 2.4210 SQ.FT.
 SCALE 1.0000

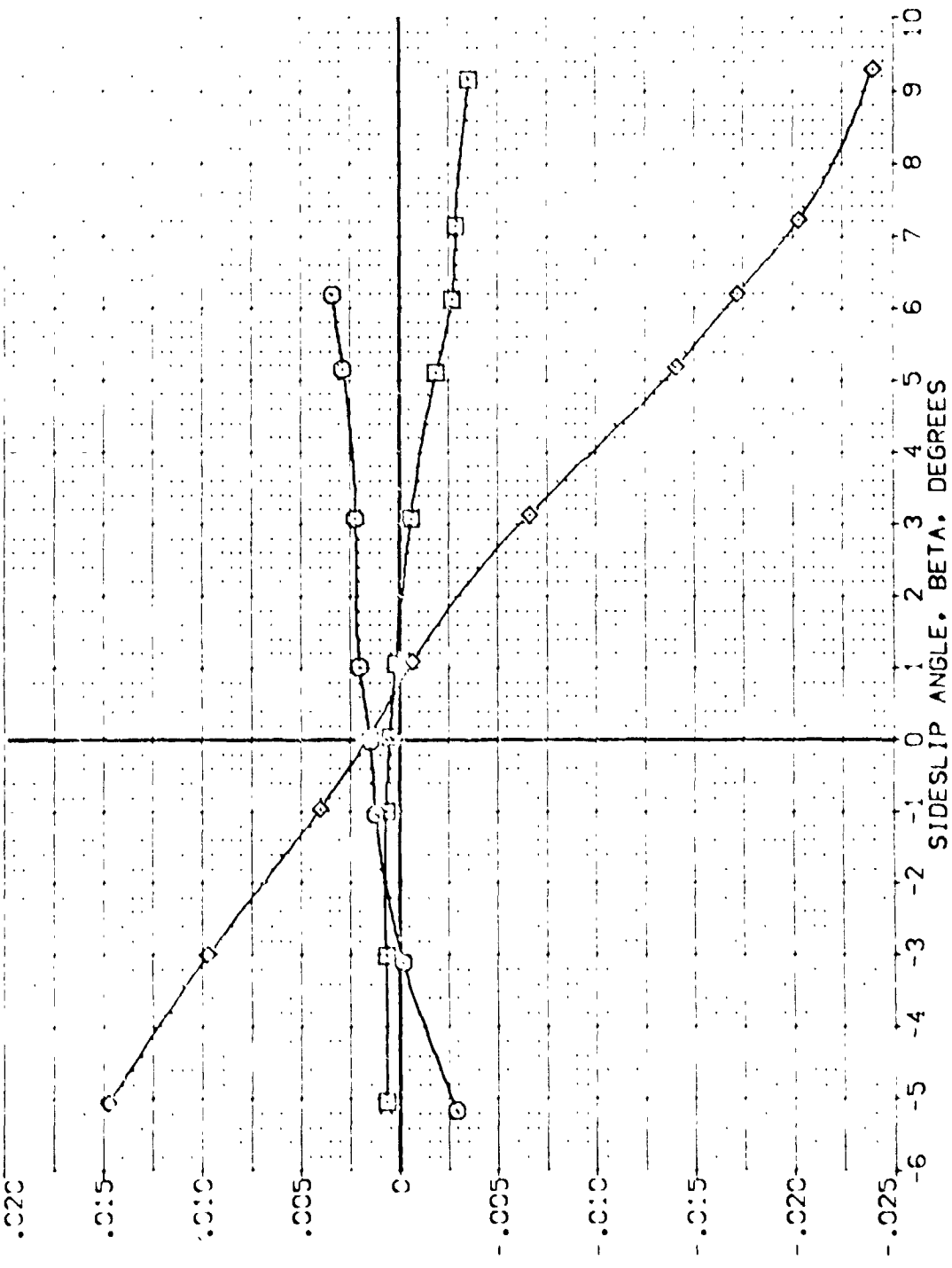


FIG. 13 LAT-Dir CHARACTERISTICS OF TOTAL VEHICLE-PART 3

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK038) □ ARC 97-747 GAS38 B C M F VI V
 (AEP040) ○ ARC 97-747 GAS38 B C M F VI V
 (AEP041) ◇ ARC 97-747 GAS38 B C M F VI V

NDM: R/V/L
 NDF: R/V/L
 NDS: R/V/L

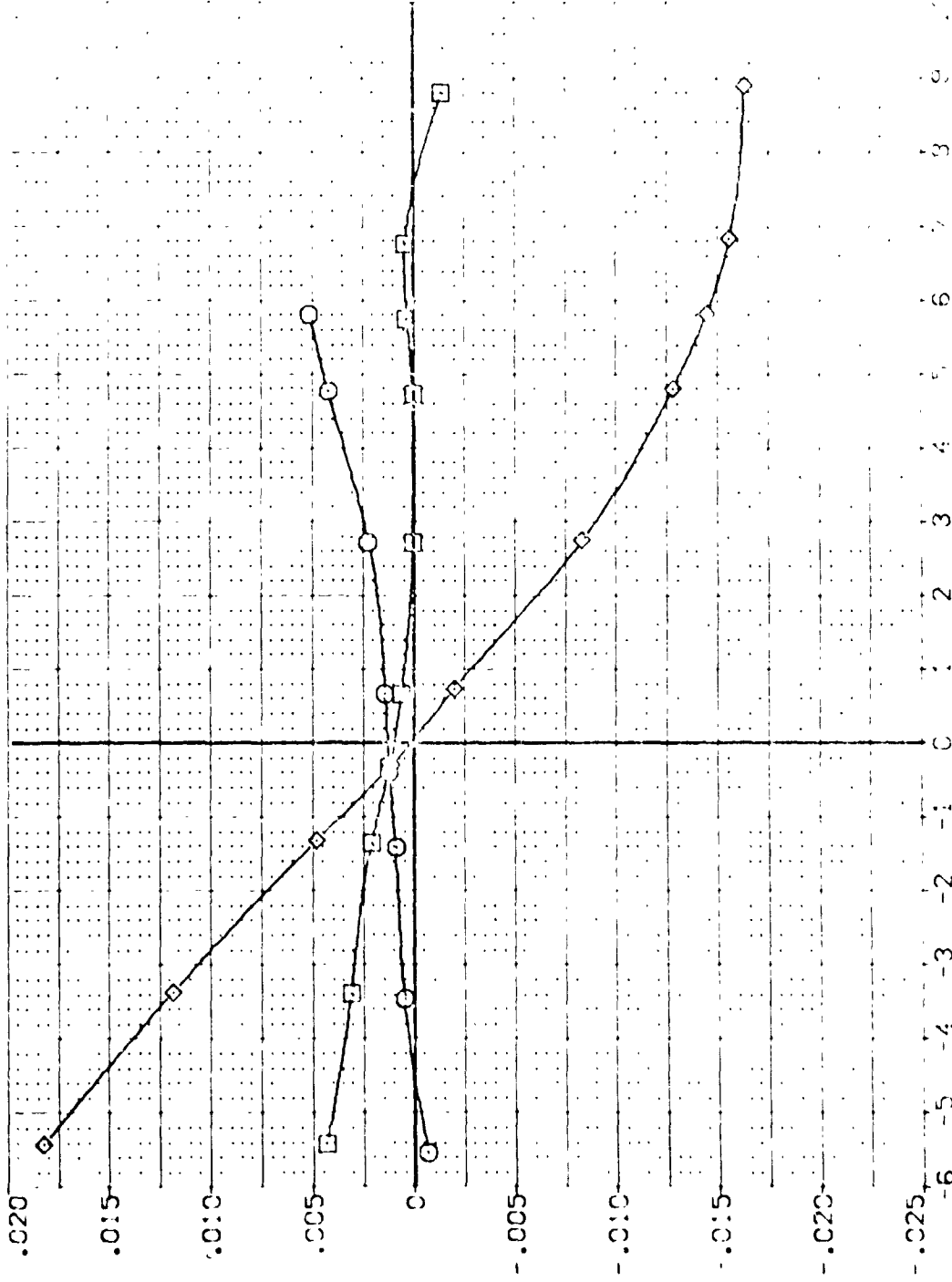
ALPHA .000
 10.000
 20.000

BDFLAP -11.700
 -11.700
 -11.700

SPOBRK .000
 85.000
 85.000

ALLTRN .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2340
 BREF 28.4680
 XREF 32.7020
 YREF 36.9360
 ZREF 11.7000
 SCALE 1.0000



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

SIDESLIP ANGLE, BETA, DEGREES

FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 2

(B)MAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BOFLAP	SPOBRK	AIRTRN	REFERENCE INFORMATION
{AEK028}	ARC 97-747 BA538 B C M F VI V	.000	-11.700	65.000	.000	SREF 2.4210 SQ.FT.
{AEK040}	ARC 97-747 BA538 B C M F VI V	10.000	-11.700	65.000	.000	LREF 14.2140 IN.
{AEK041}	ARC 97-747 BA538 B C M F VI V	20.000	-11.700	65.000	.000	BREF 28.1000 IN.
						XMRP 32.0000 IN.
						YMRP 11.0000 IN.
						ZMRP 10.0000 IN.
						SCALE

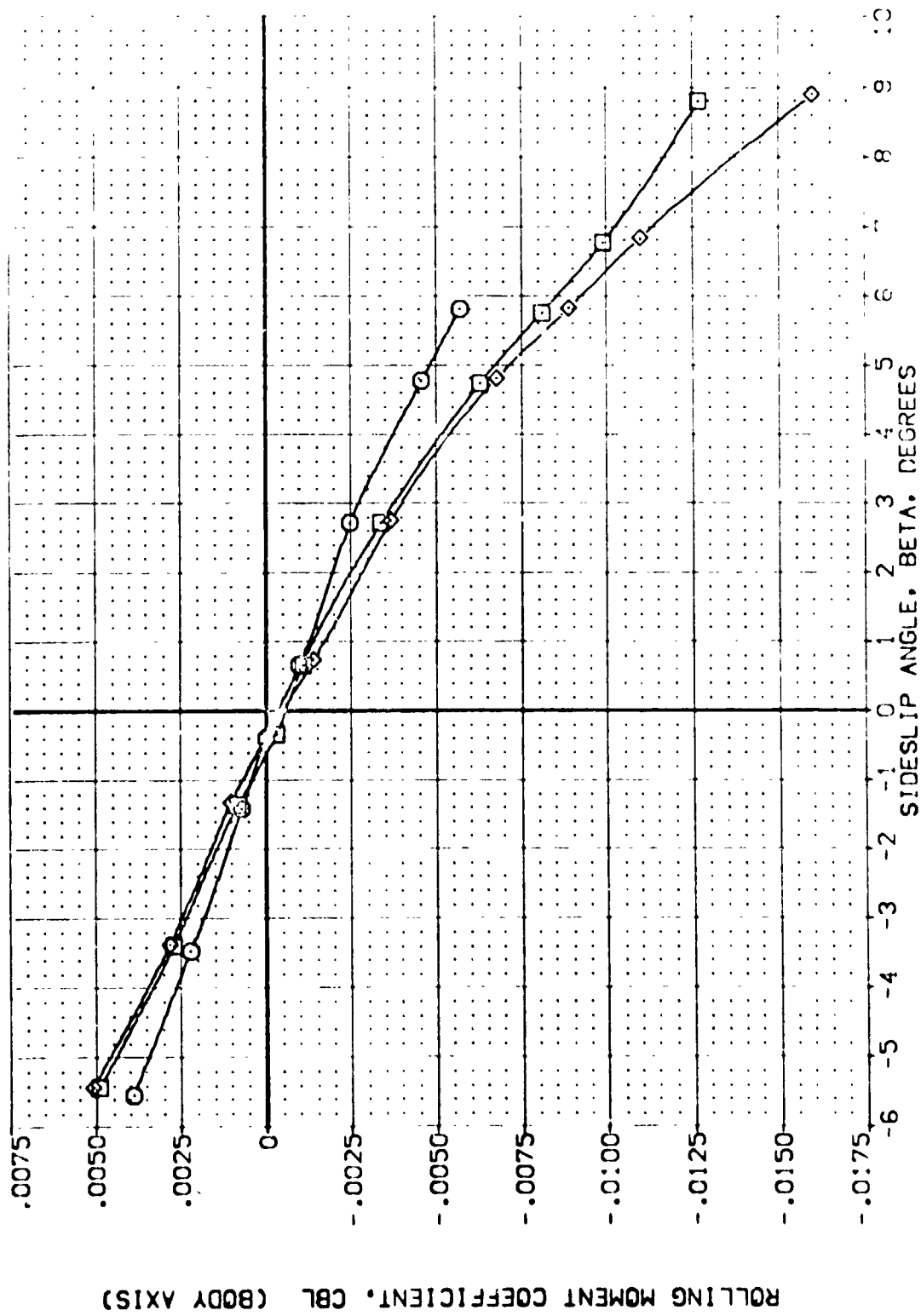


FIG. 13 LAT-DIR CHARACTERISTICS OF TOTAL VEHICLE-PART 3
(B)MACH = 2.00

ARC 97-747 0A538 B C M F W I V NOM. RN/L (AEK012)

SYMBOL	MACH	ELEVON	PARAMETRIC VALUES	.000	.000	DATA SOURCE	ALPHA	10.000	REFERENCE INFORMATION	50. FT.
C	1.600	BOFLAP	AILRON	55.000	AEK012	SREF	2.4210			
		RUDDER	SPOBRK	.000	AEK014	REF	14.2410			
		ELEV-R	ELEV-L	.000		REF	28.1004			
				.000		XREF	32.3010			
						YREF	.0000			
						ZREF	11.2500			
						SCALE	.0300			

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

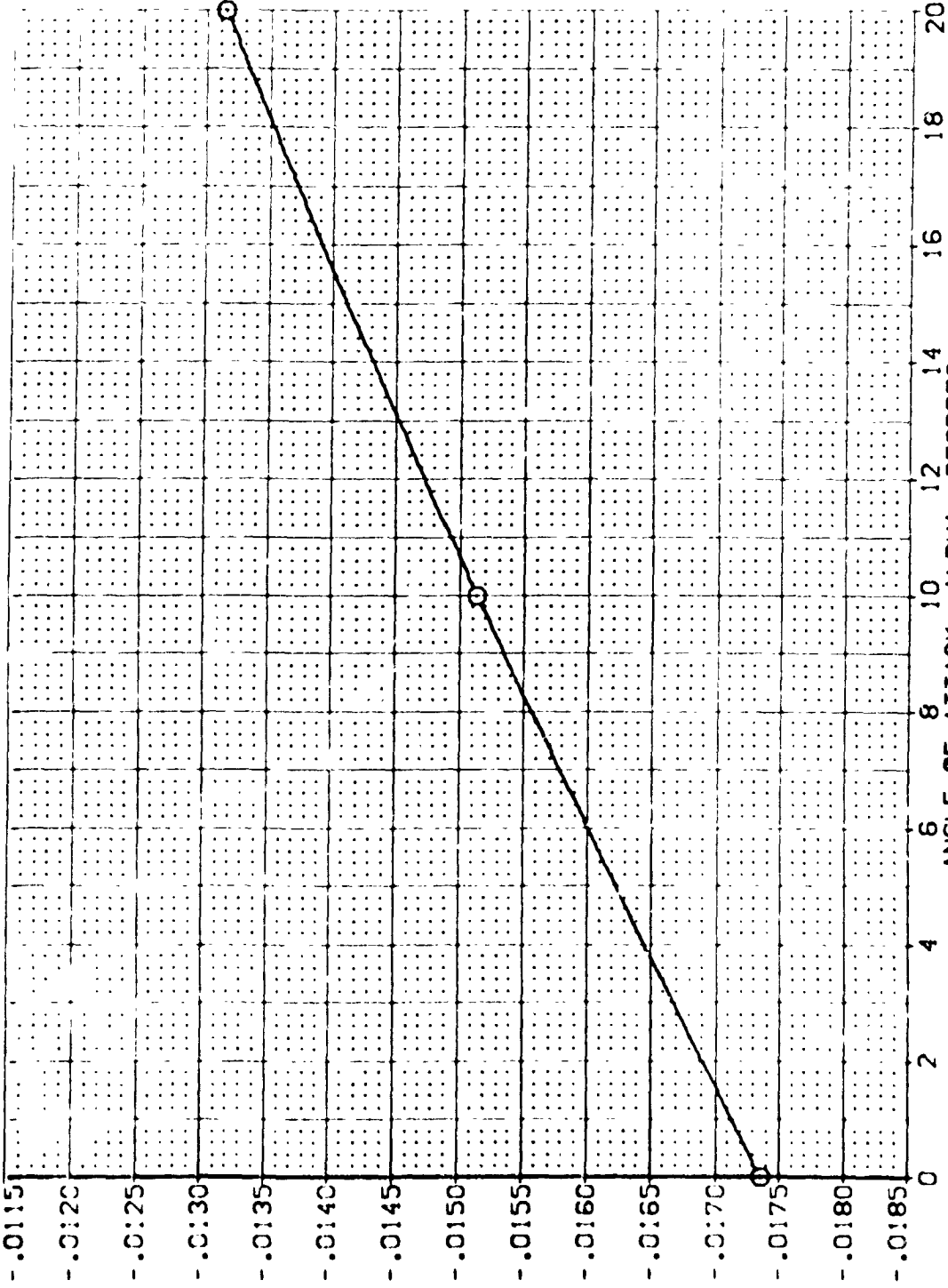


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (AEK012)

SYMBOL ○
MACH 2.002

PARAMETRIC VALUES
ELEVON .000 ALLRON
90° LAP -11.700 SPOBRK
RUDDER .000 ELEV-L
ELEV-R .000

DATA SOURCE
ALPHA .000
AEK012 56.000
AEK014 .000

DATA SET
AEK013 ALPHA 10.000

REFERENCE INFORMATION
SREF 2.4210
LREF 14.2440
BREF 28.1004
XREF 32.3070
YREF .0000
ZREF 11.2500
SCALE .0300

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

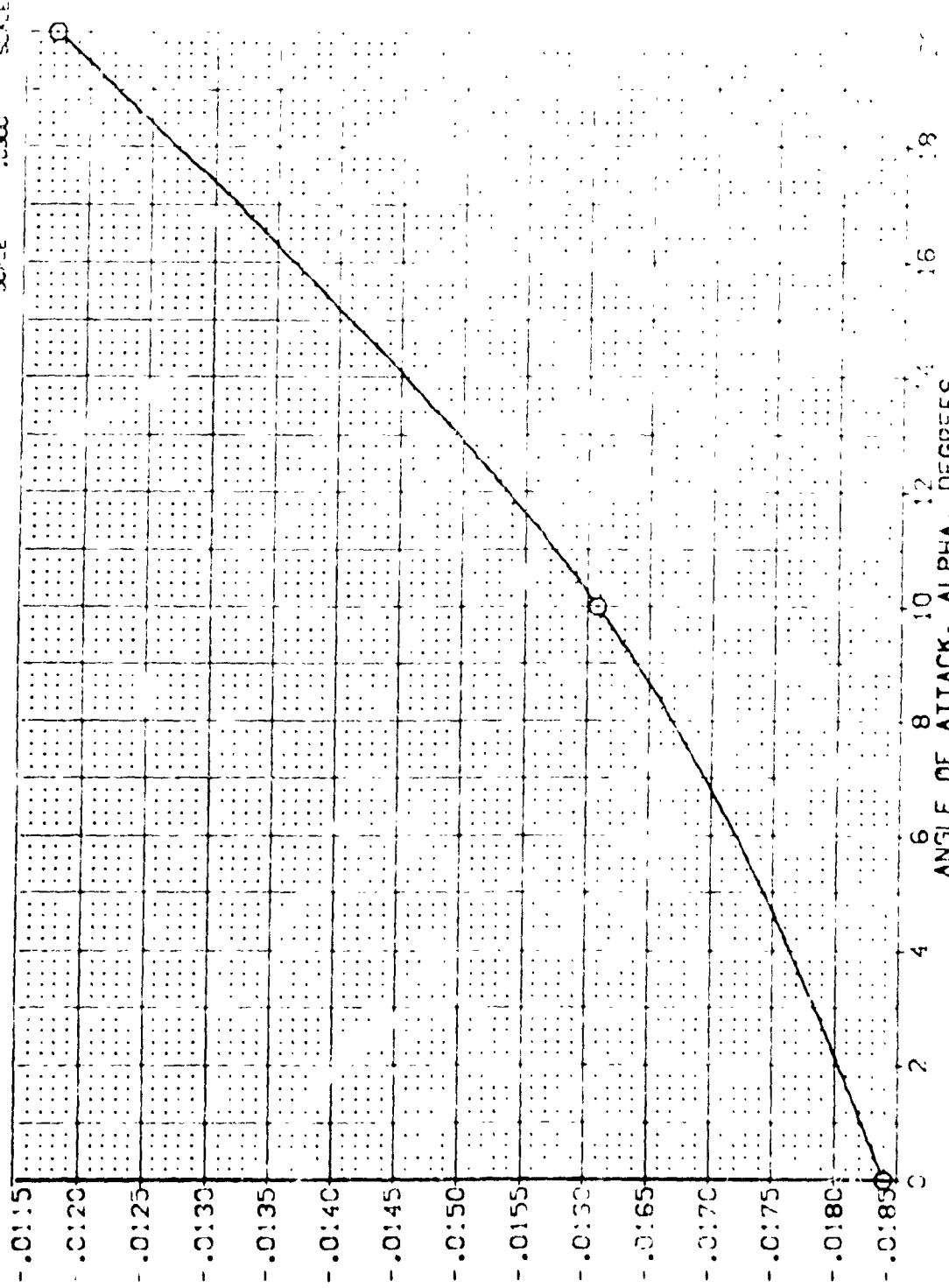


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1



ARC 97-747 0A538 B C M F W1 V NOM. RN/L (AEK012)

SYMBOL	1.600	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○		ELEVON	.000	AIRION	ALPHA	SREF	2.4210
		BD FLAP	-11.700	SPOBRK	AEK012	LREF	14.2440
		RUDDER	.000	ELEV-L	AEK014	BRK	28.1004
		ELEV-R	.000			YMRP	37.3018
						ZMRP	.0000
						SCALE	11.2500
							.0300

YAWING MOMENT COEFFIC. NT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

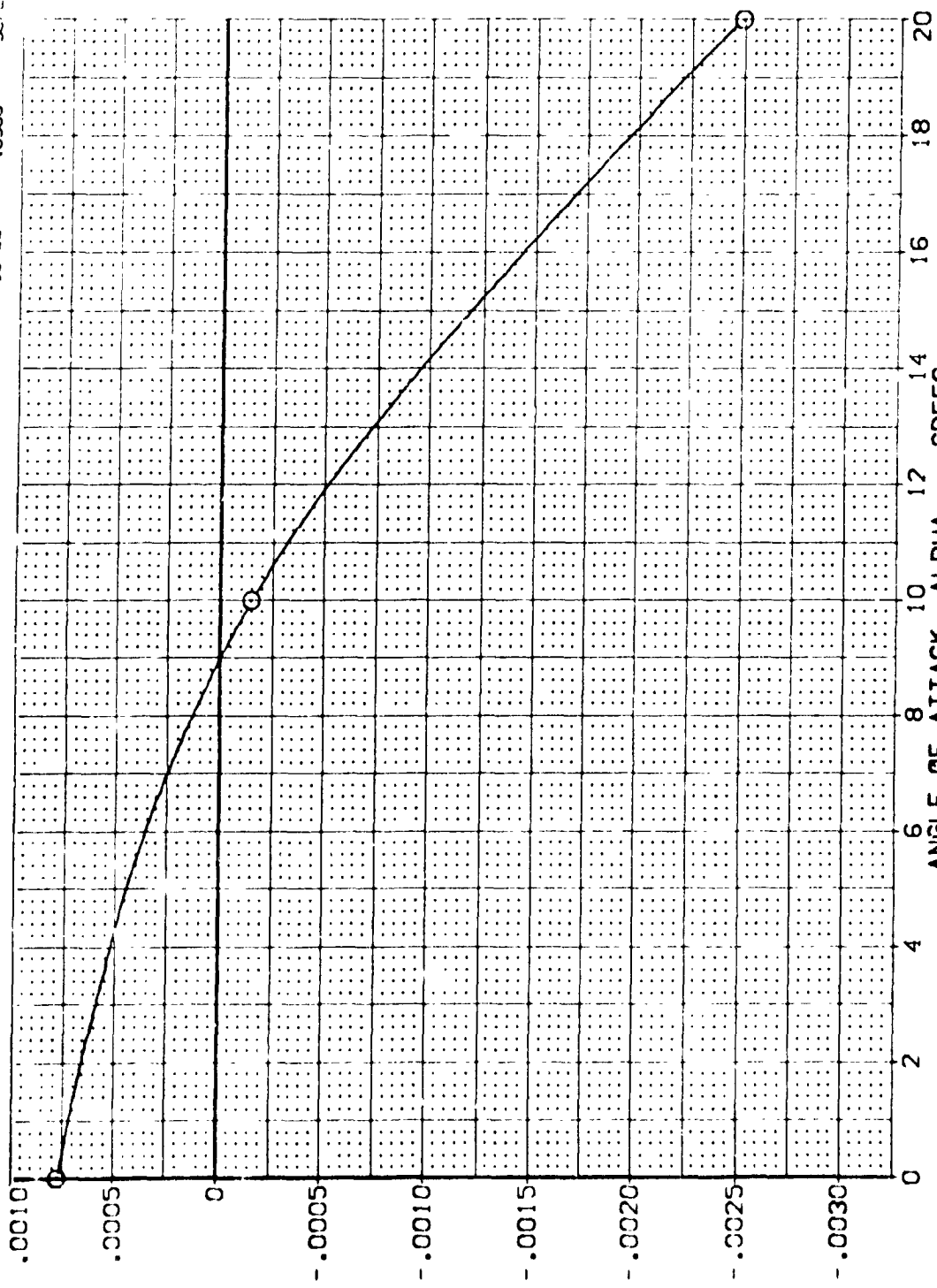
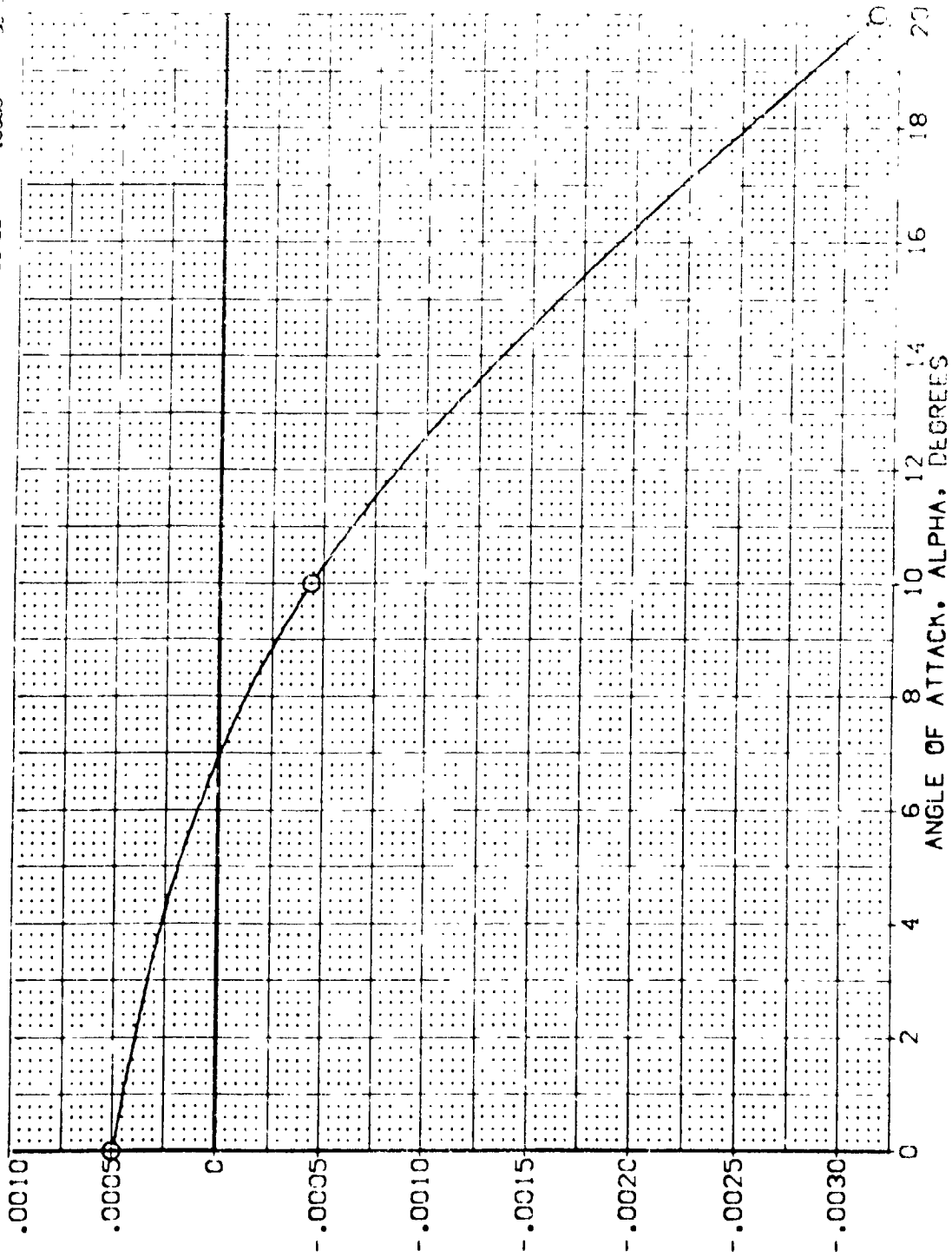


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A538 B C M F W1 V NOM. RN/L [AEK012]

SYMBOL ○

MACH	2.002	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
ELEVON	.000	A1LRON	ALPHA	2.4210
BDFLAP	-11.700	SPOBRK	AEK013	14.2440
RUDDER	.000	ELEV-L	AEK012	28.1004
ELEV-R	.000	AEK014	AEK013	32.3010
			YMRP	.0000
			ZMRP	11.2500
			SCALE	.0300



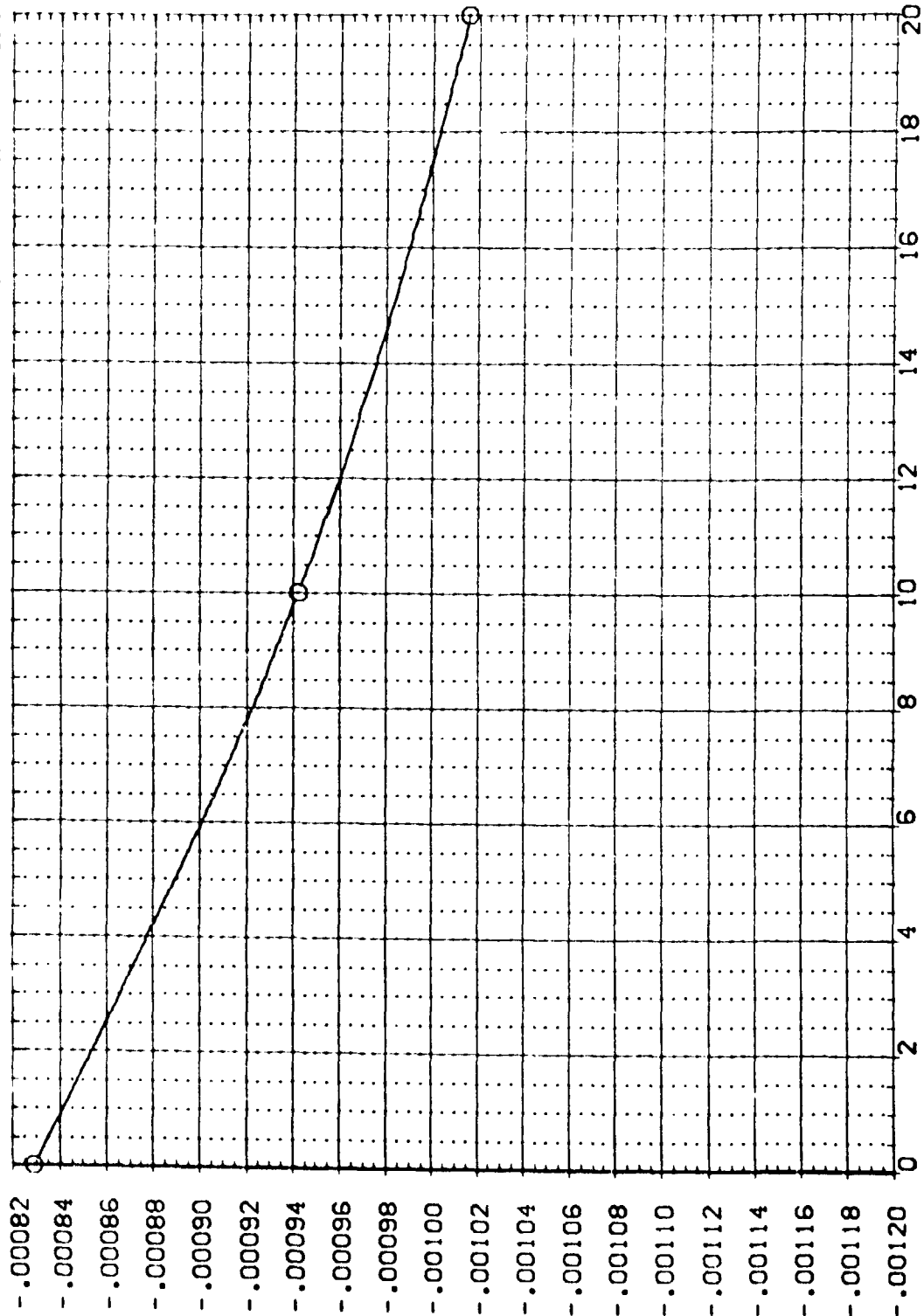
YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART I



ARC 97-747 0A53B B C M F W I V NOM. RN/L (AEKO12)

SYMBOL	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION				
(C)	1.600	ELEVON	.000	AIRPCN	.000	DATASET	ALPHA	SREF	2.4210	SO.FT.
		BOF_LAP	-11.700	SPOBRK	55.000	AEKO12	10.000	LRFF	14.2440	
		RUDDER	.000	ELEV-L	.000	AEKO14	20.000	BRFF	28.1004	
		ELEV-R	.000					XWRP	32.3010	
								YWRP	.0000	
								ZWRP	11.2500	
								SCALE	.0300	



ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1

ARC 97-747 0A53B B C M F W I V NOM. RN/L (AEKO:2)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFO			
○	2.002	ELEVON	.000	AILERON	.000	DATASET	ALPHA	SREF	2.1210	REF	14.2440	SCALE	10.000
		BOFLAP	-11.700	SPDBRK	55.000	AEKO:2	10.000	REF	28.1000	REF	32.1000	SCALE	10.000
		RUDDER	.000	ELEV-L	.000	AEKO:4	20.000	REF	11.2000	REF	11.2000	SCALE	10.000
		ELEV-R	.000					REF	11.2000	REF	11.2000	SCALE	10.000

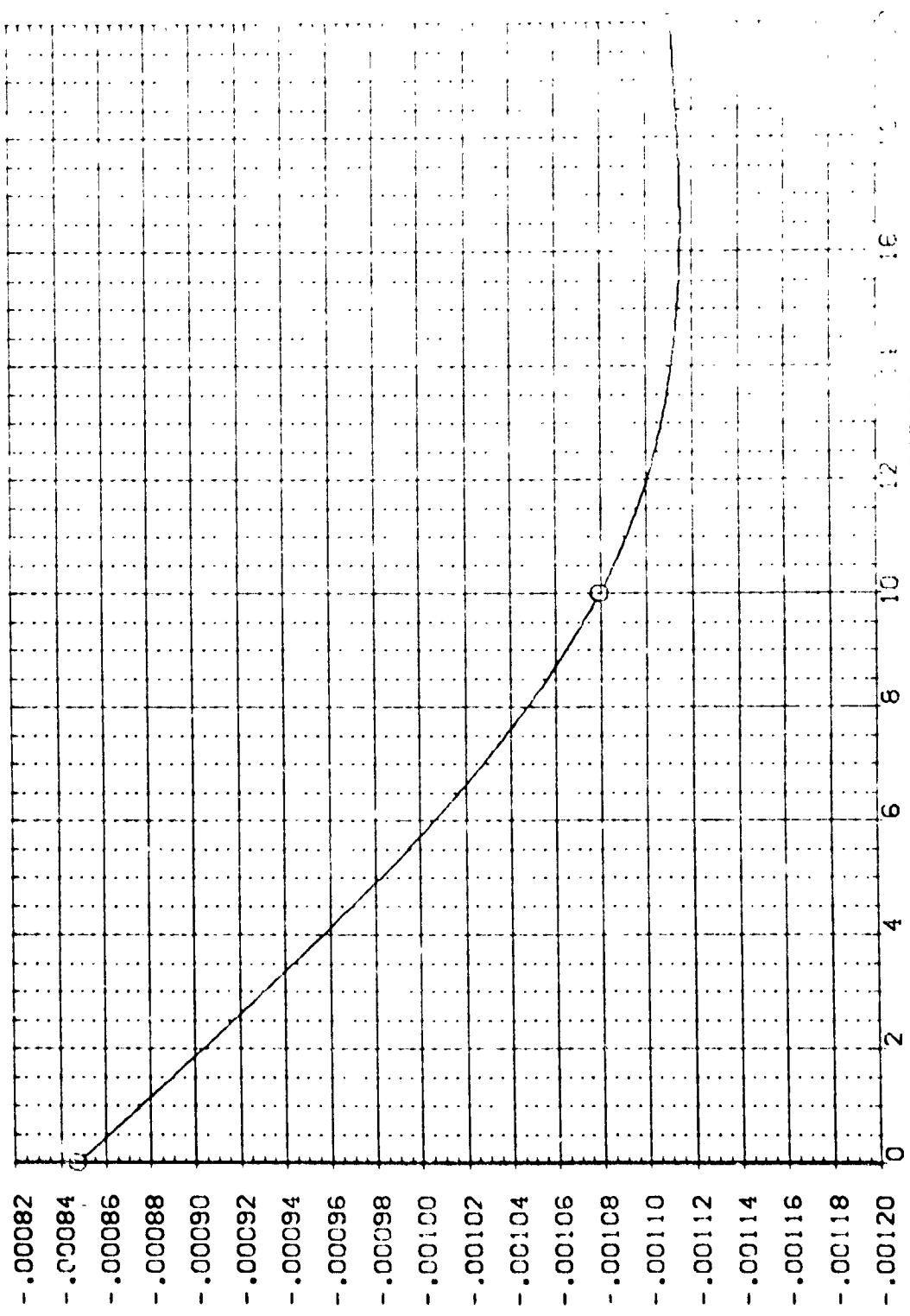


FIG. 14 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 1



SYMBOL ○ MACH 2.002

PARAMETRIC VALUES
 ELEVON .000 AILRON .000
 SFLAP -11.700 SPOBRK 25.000
 RUDER .000 ELEV-L .000
 ELEV-R .000

DATA SOURCE
 ALPHA .000
 AEK025 20.000

DATASET AEK026
 ALPHA 10.000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XPRP 30.3010
 YPRP 0.0000
 ZPRP 11.2500
 SCALE 1.0000

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

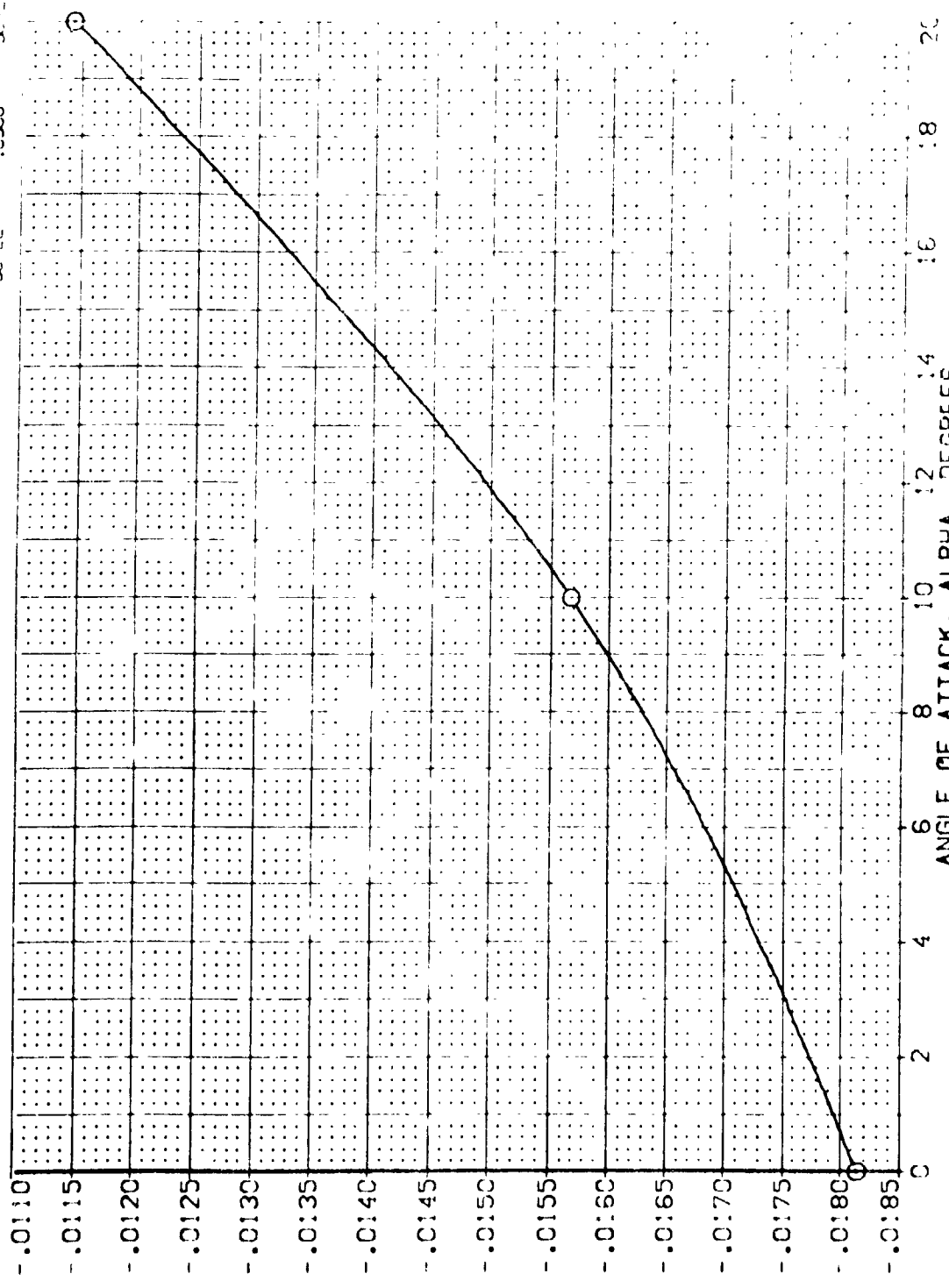


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2



ARC 97-747 CAS38 B C M F W I V NOM. RN/L (AEK025)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
○	2.002	ELEVON	.000	AILRON	.000	AEK025	ALPHA	10.000	SPEC	2.4710	SCALE		
		BOFLAP	-11.700	SPOBRK	25.000	AEK025	.000	10.000	REF	14.2440			
		RUDER	.300	ELEV-L	.000	AEK027	20.000		REF	28.1004			
		ELEV-R	.300						AMPD	32.3000			
									VMPO	1.0000			
									ZMPO	1.0000			
									SCALE	1.0000			

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

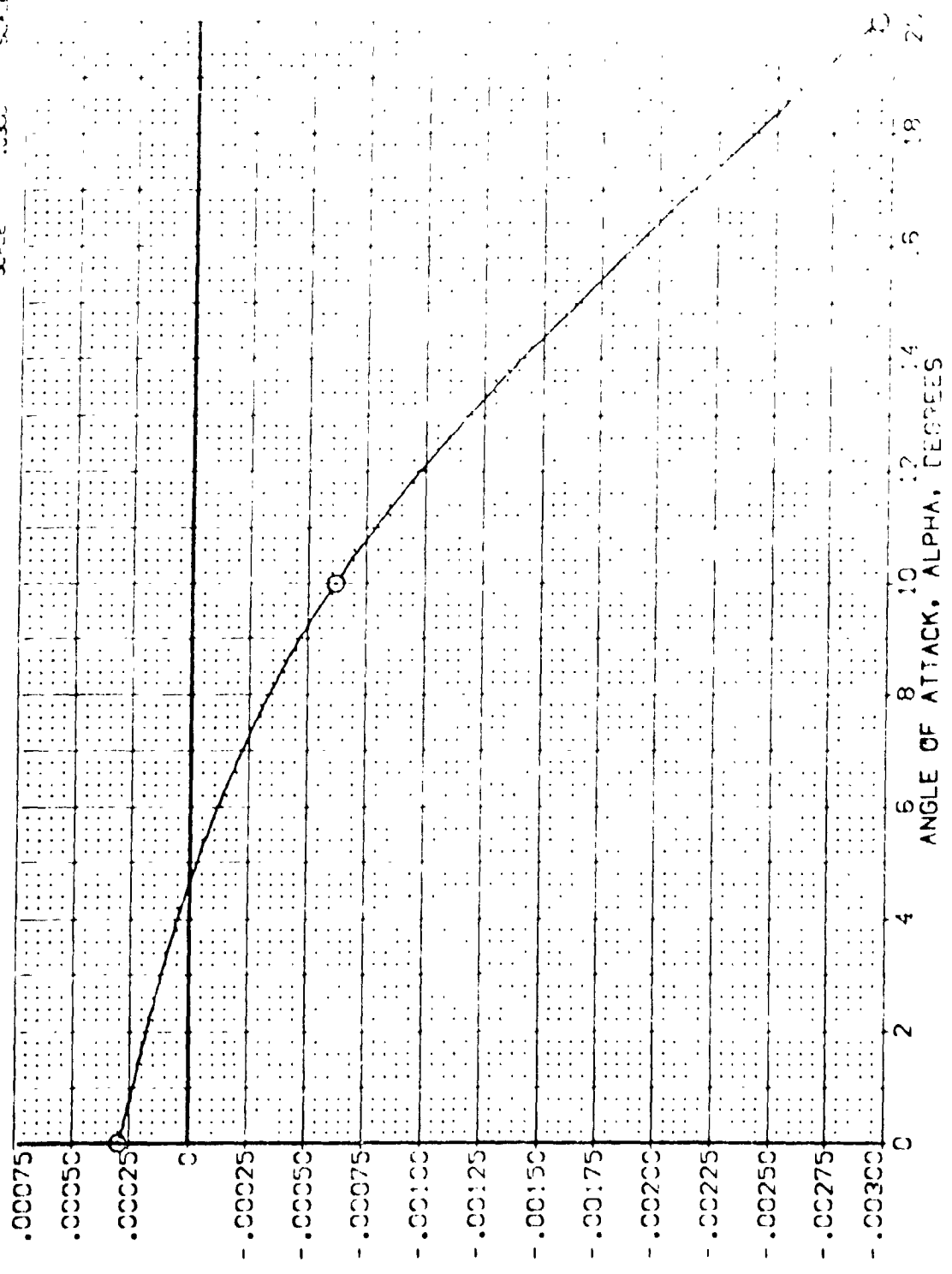


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

SYMBOL MACH
 ○ 1.600

PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
ELEVON	.000	ALTRON	ALPHA	SREF	2.4210
BDFLAP	-11.700	SPOB-K	AEK025	REF	14.1240
RJDDER	.000	ELEV-L	AEK026	SREF	28.1254
ELEV-R	.000			Y-MPP	32.3000
				Z-MPP	.0000
				SCALE	.0000

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

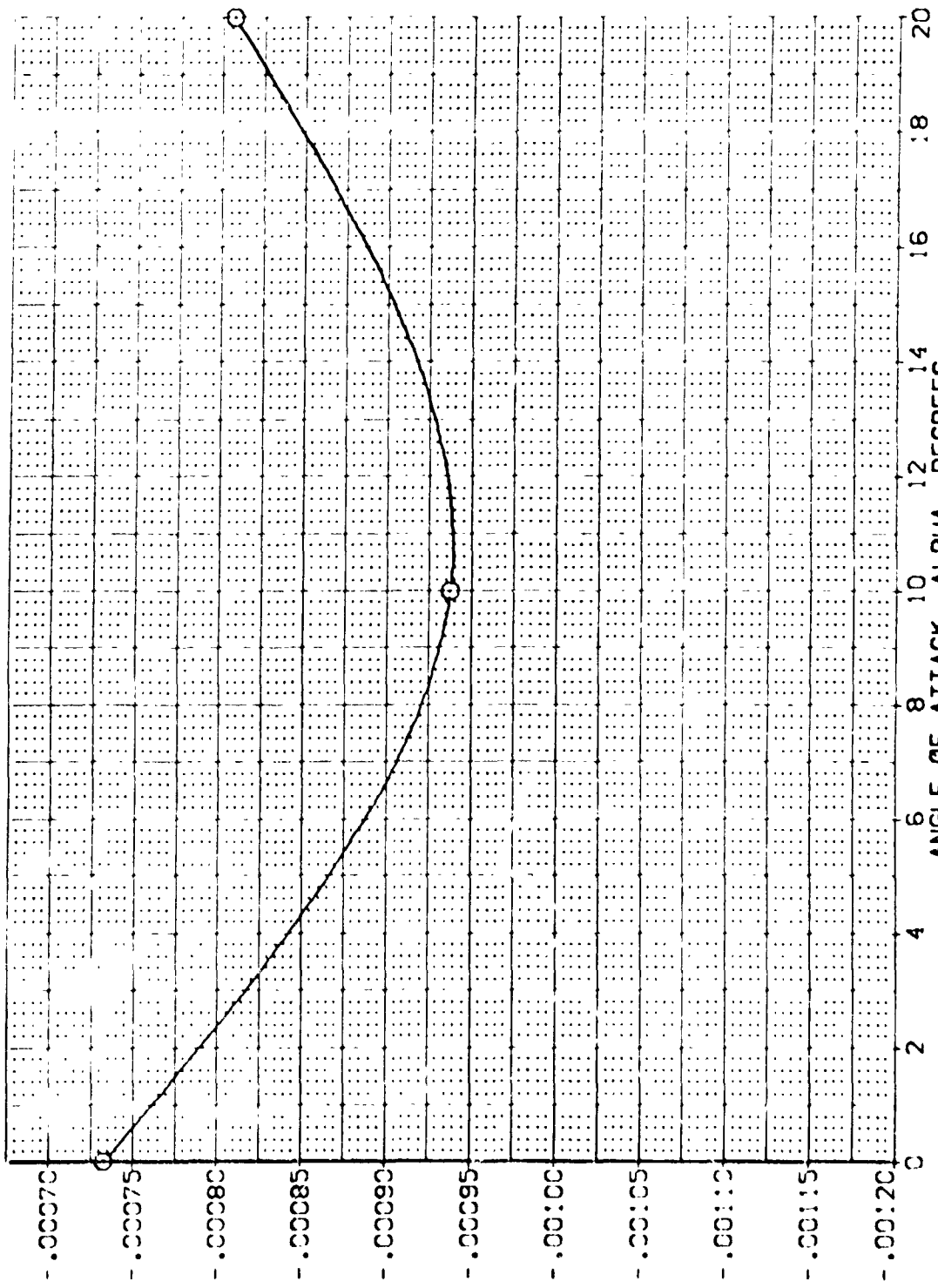


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (AEK025)

SYMBOL	MACH	2.002	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	ELEVON	.000	AIRTON	.000	ALPHA	10.000	SREF	2.4210
	BOFLAP	-11.700	SPOBRK	25.000	AEK025	AEK026	REF	14.2440
	RUDDER	.000	ELEV-L	.000	AEK027		REF	28.1004
	ELEV-R	.000					XREF	32.3010
							YREF	.0000
							ZREF	11.7500
							SCALE	.0300

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

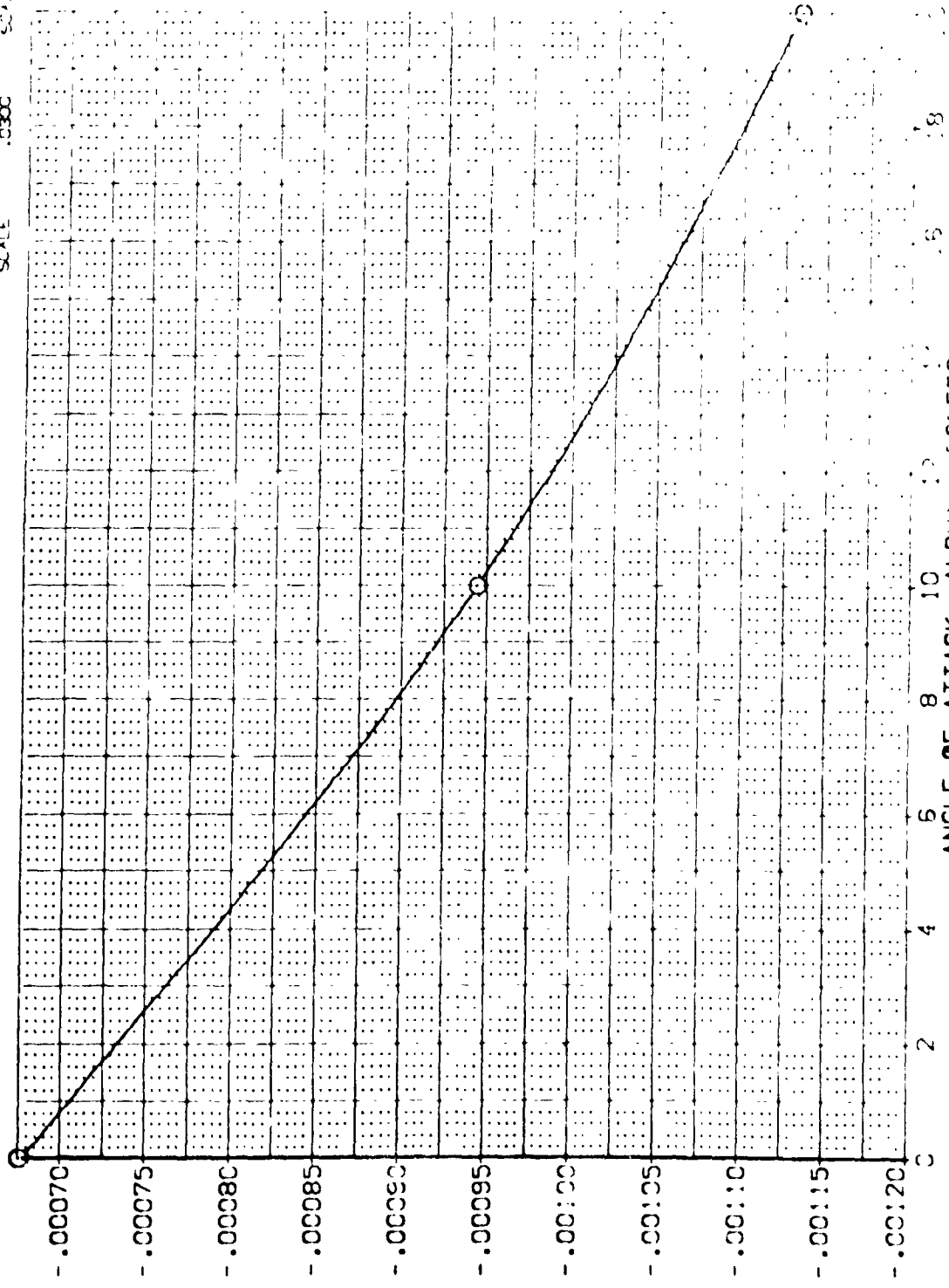


FIG. 15 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 2



ARC 97-747 0A538 B C M F W I V NOM. RN/L (AEK039)

SYMBOL	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	1.60	ELEVON	.000	AILRON	.000	ALPHA	10.000	SREF	2.4210	SO.F.T.
		BDFLAP	-11.700	SPDBRK	86.000	AEK039	.000	LRPF	14.2440	
		RUDER	.000	ELEV-L	.000	AEK01	20.000	SRPF	28.0004	
		ELEV-R	.000					VRPF	32.0000	
								WRPF	11.2500	
								SCALE	10.000	

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

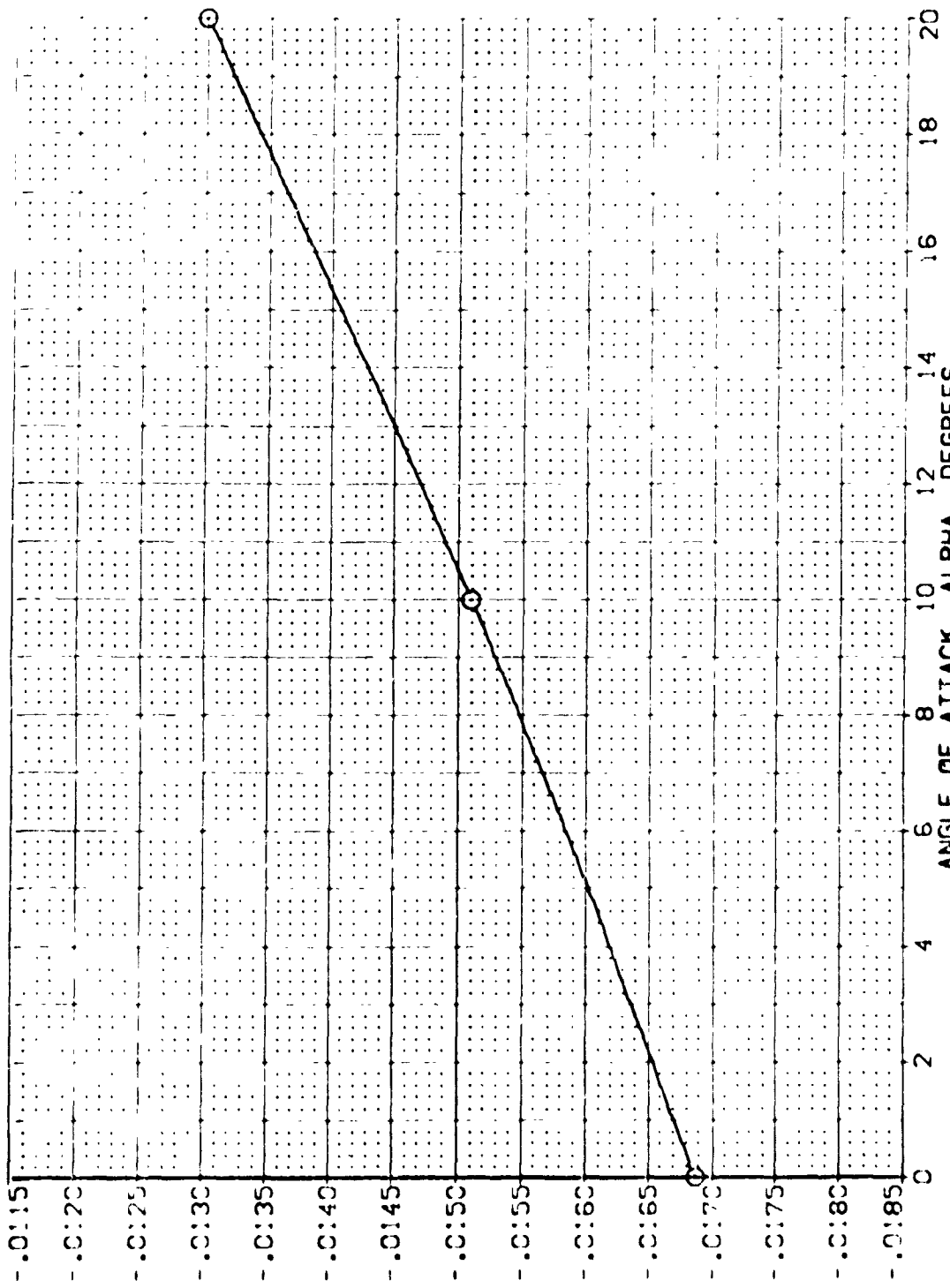


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL	0	MACH	1.601
PARAMETRIC VALUES			
ELEVON	.000	ATLRON	.000
BOFLAP	-11.700	SPOBRK	.000
RJODER	.000	ELEV-L	.000
ELEV-R	.000		
DATA SOURCE			
ALPHA	20.000	AEK010	10.000
AEK039	.000	AEK041	.000
REFERENCE INFORMATION			
SREF	2.4210	SO.FT.	
LREF	14.244C	IN.	
BREF	78.1004	IN.	
XMRP	32.301C	IN.	
YMRP	.0000	IN.	
ZMRP	11.7500	IN.	
SCALE	.0300	SCALE	

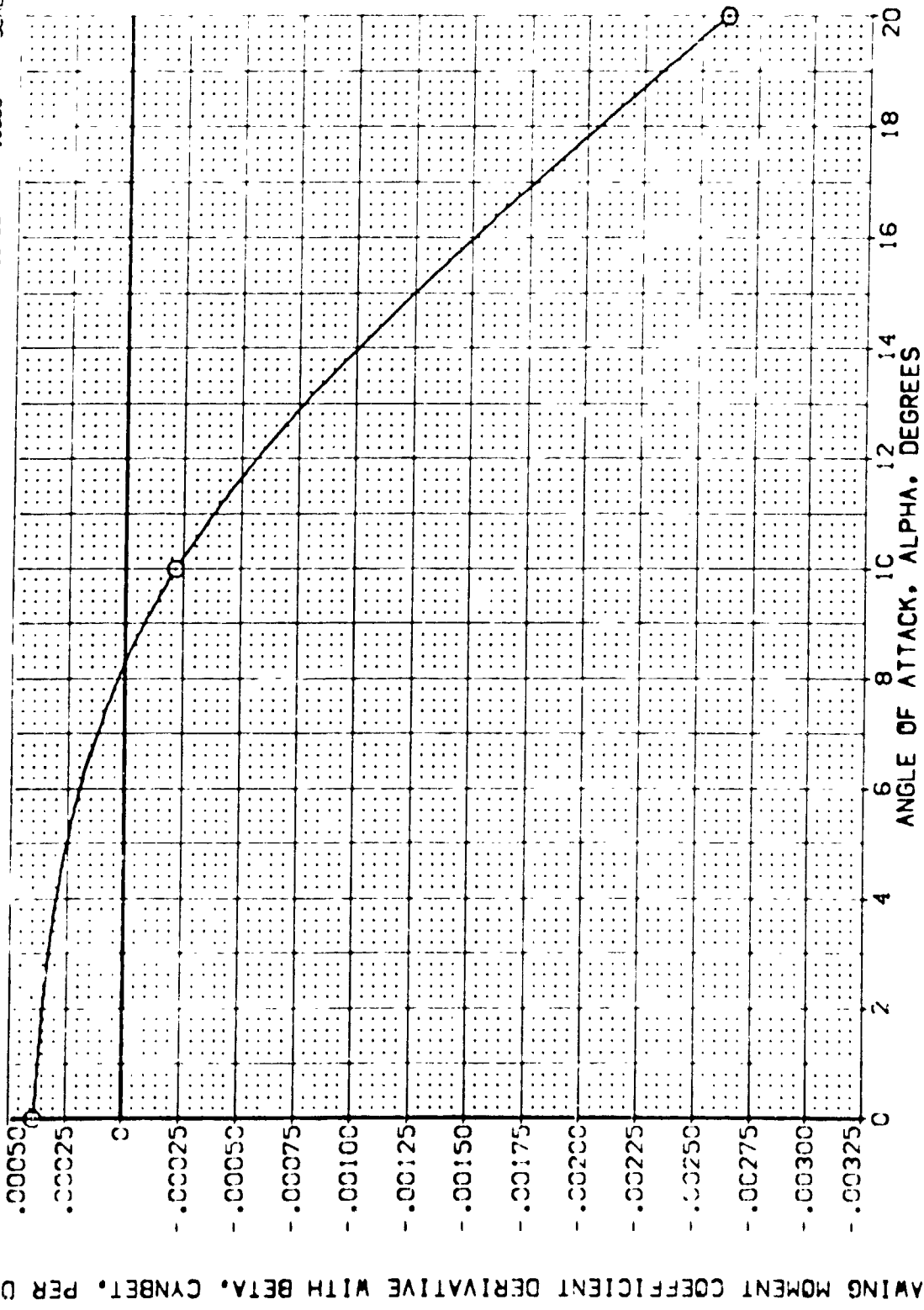


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

SYMBOL	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	2.007	ELEVON	.000	AILERON	.000	AEK039	2.42/C
		BOXLAP	-11.700	SPOBRK	65.000	AEK039	14.24/C
		RUDDER	.000	ELEV-L	.000	AEK039	28.10/C
		ELEV-R	.000			AEK039	32.90/C
						AEK039	.0000
						AEK039	11.2500
						AEK039	.0000
						AEK039	11.0300
						AEK039	SCALE

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET. PER DEGREE

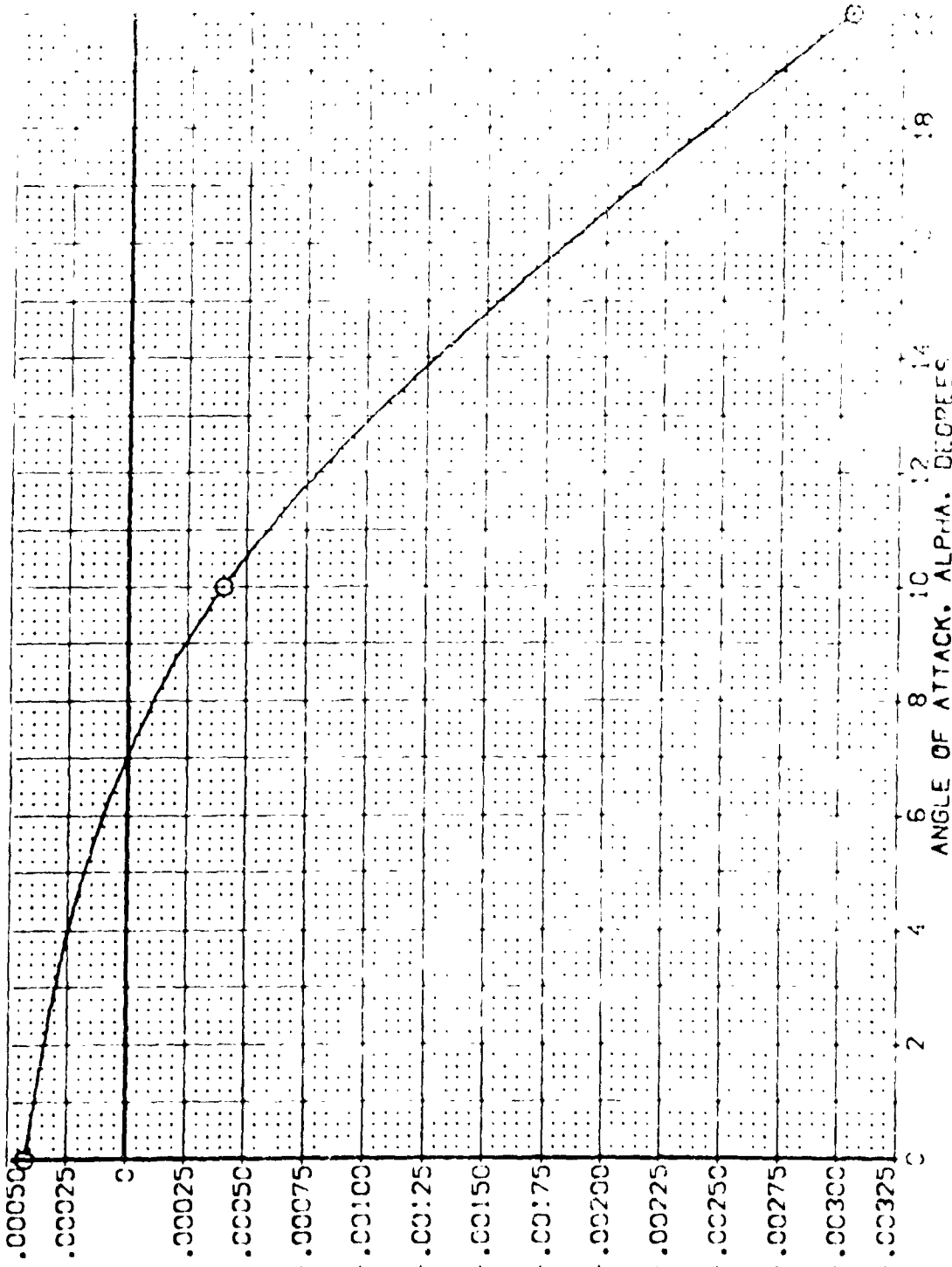


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3



ARC 97-747 0A539 B C M F W I V NOM. RN/L (AEK039)

SYMBOL	MACH	1.601	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
○	ELEVON	.000	AILTRON	.000	ALPHA	.000	SREF	2.4210
	BOFLAP	-11.700	SPOBRK	.000	AEK039	.000	LREF	14.2440
	RUDDER	.000	ELEV-L	.000	AEK041	20.000	SREF	28.1004
	ELEV-R	.000					YMPP	32.3070
							ZMPP	11.2500
							SCALE	.0300
								SO.FT.

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

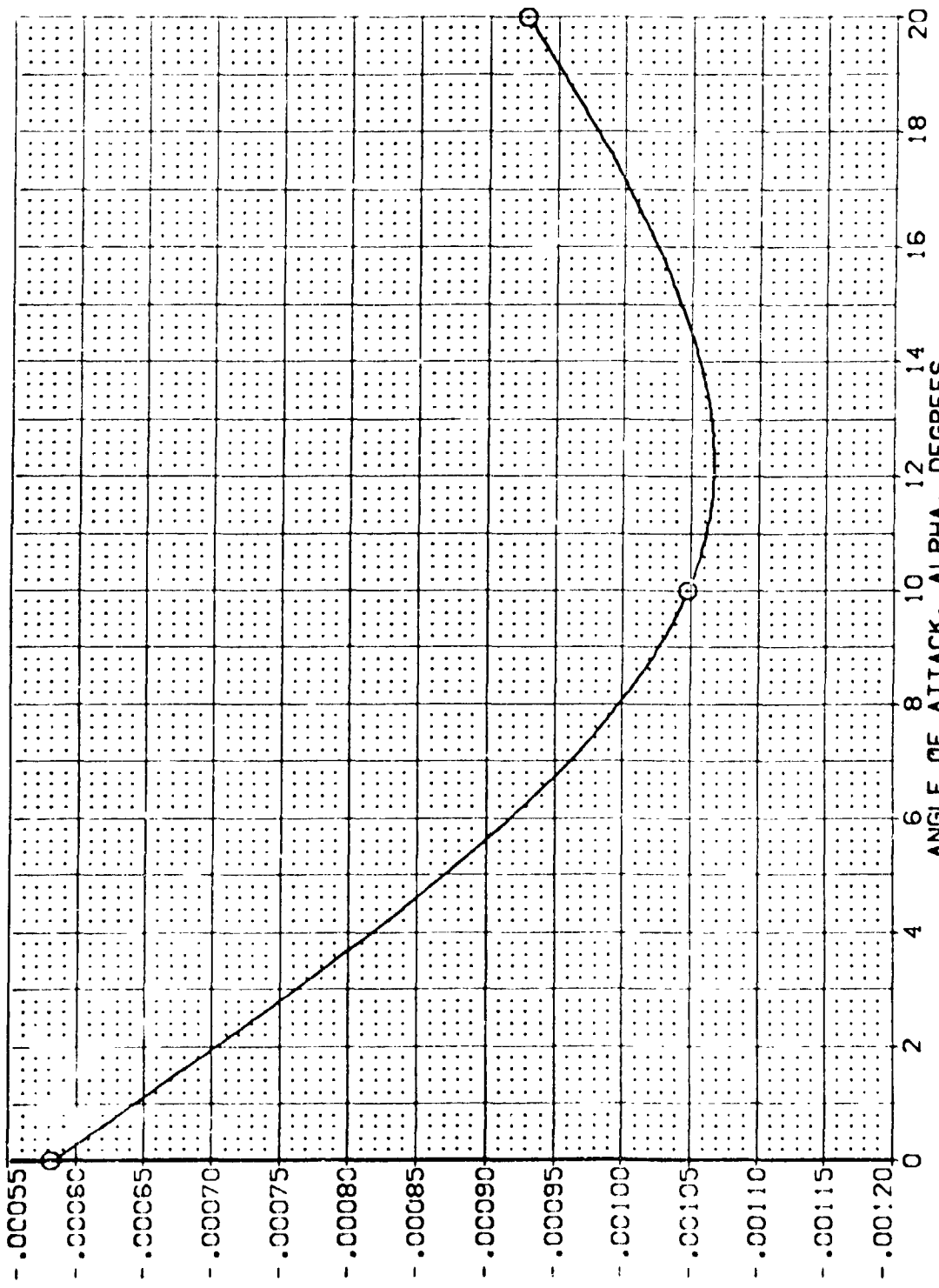


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3

SYMBOL \bigcirc MAG: 2.002
 PARAMETRIC VALUES
 ELEVON .000 AILRON .000 DATASET .000 DATA SOURCE ALPHA 10.000
 BOFLAP -11.700 SPOBRK 85.000 AEK039 .000 AEK040
 RUDDER .000 ELEV-L .000 AEK041 20.000
 ELEV-R .000
 REFERENCE INFORMATION
 2.4210
 14.2440
 28.1004
 32.3010
 0000
 11.2500
 .0300
 SCALE

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

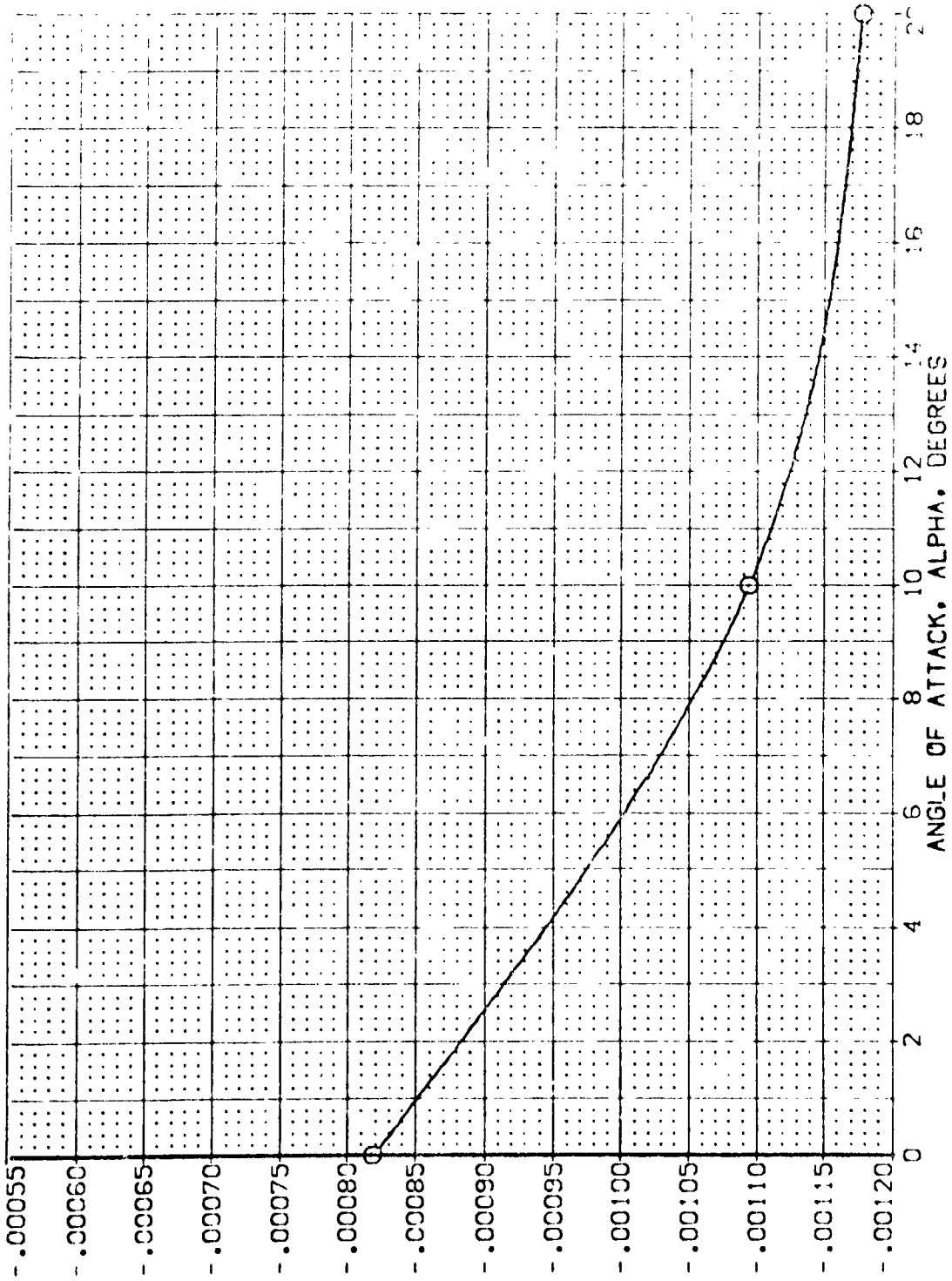


FIG. 16 LAT-DIR DERIVATIVES OF TOTAL VEHICLE-PART 3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOFLAP	SPODBK	REFERENCE INFORMATION
(AEK022)	ARC 97-747 CAS38 B C M F VI V	20.000	-20.000	-11.700	55.000	2.4210 SQ.FT.
(AEK005)	ARC 97-747 CAS38 B C M F VI V	5.000	-10.000	-11.700	55.000	14.2440
(AEK004)	ARC 97-747 CAS38 B C M F VI V	5.000	0.000	-11.700	55.000	28.1000
(AEK021)	ARC 97-747 CAS38 B C M F VI V	10.000	-10.000	-11.700	55.000	32.3000
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SCALE

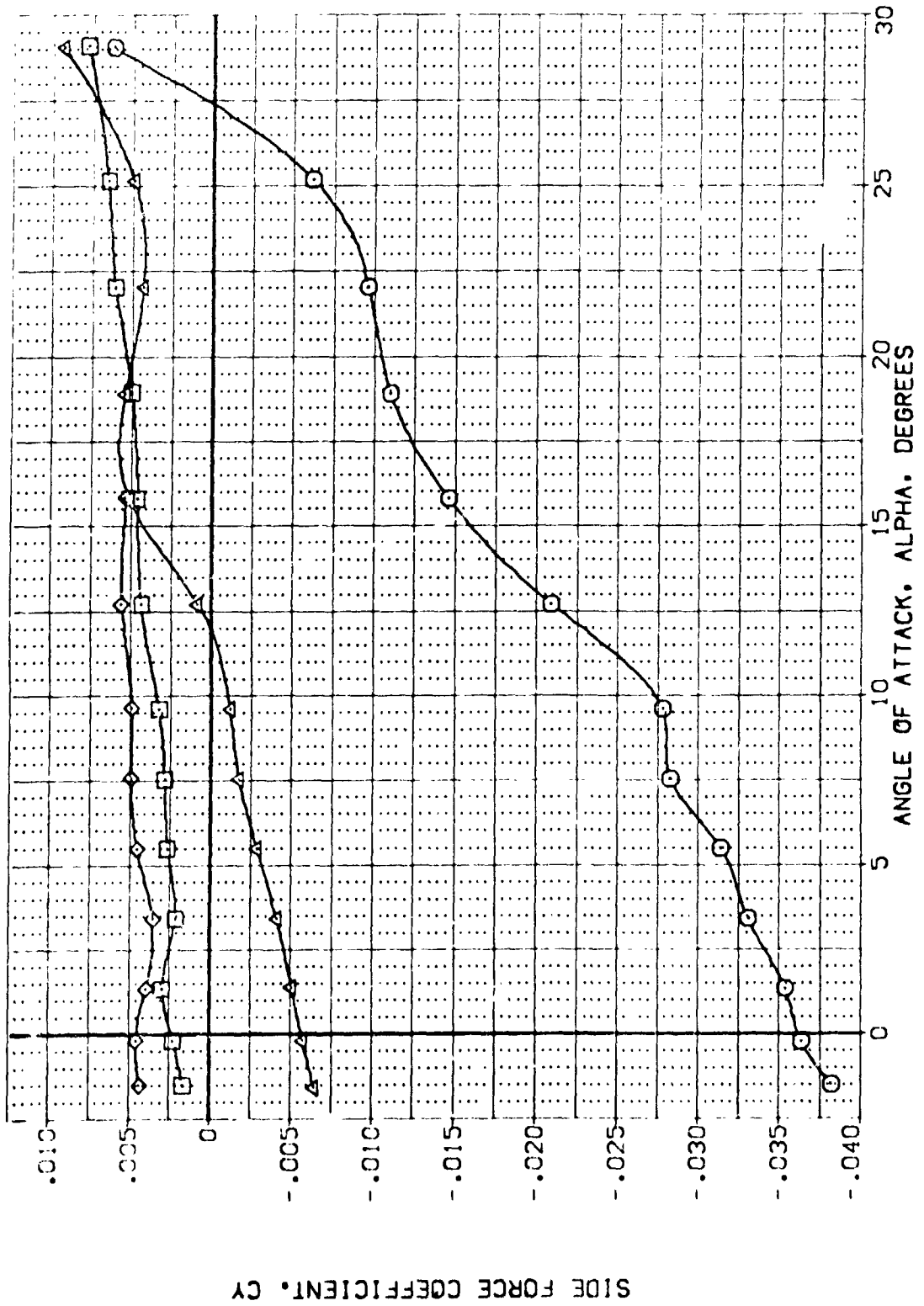


FIG. 17 AILERON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[AEK022]	ARC 97-747	0AS38	B	C	M	F	V	V	2.4210	SCALE
[AEK005]	ARC 97-747	0AS38	B	C	M	F	V	V	14.2440	SCALE
[AEK004]	ARC 97-747	0AS38	B	C	M	F	V	V	28.1004	SCALE
[AEK021]	ARC 97-747	0AS38	B	C	M	F	V	V	37.9610	SCALE

AILERON	ELEVON	BOFLAP	SPOBRK
20.000	-20.000	-11.700	55.000
5.000	-10.000	-11.700	55.000
10.000	-10.000	-11.700	55.000

NON: RNVL	YMRP	ZMRP	SCALE
NON: RNVL	.0000	11.7500	.0300
NON: RNVL	.0000	.0000	.0300

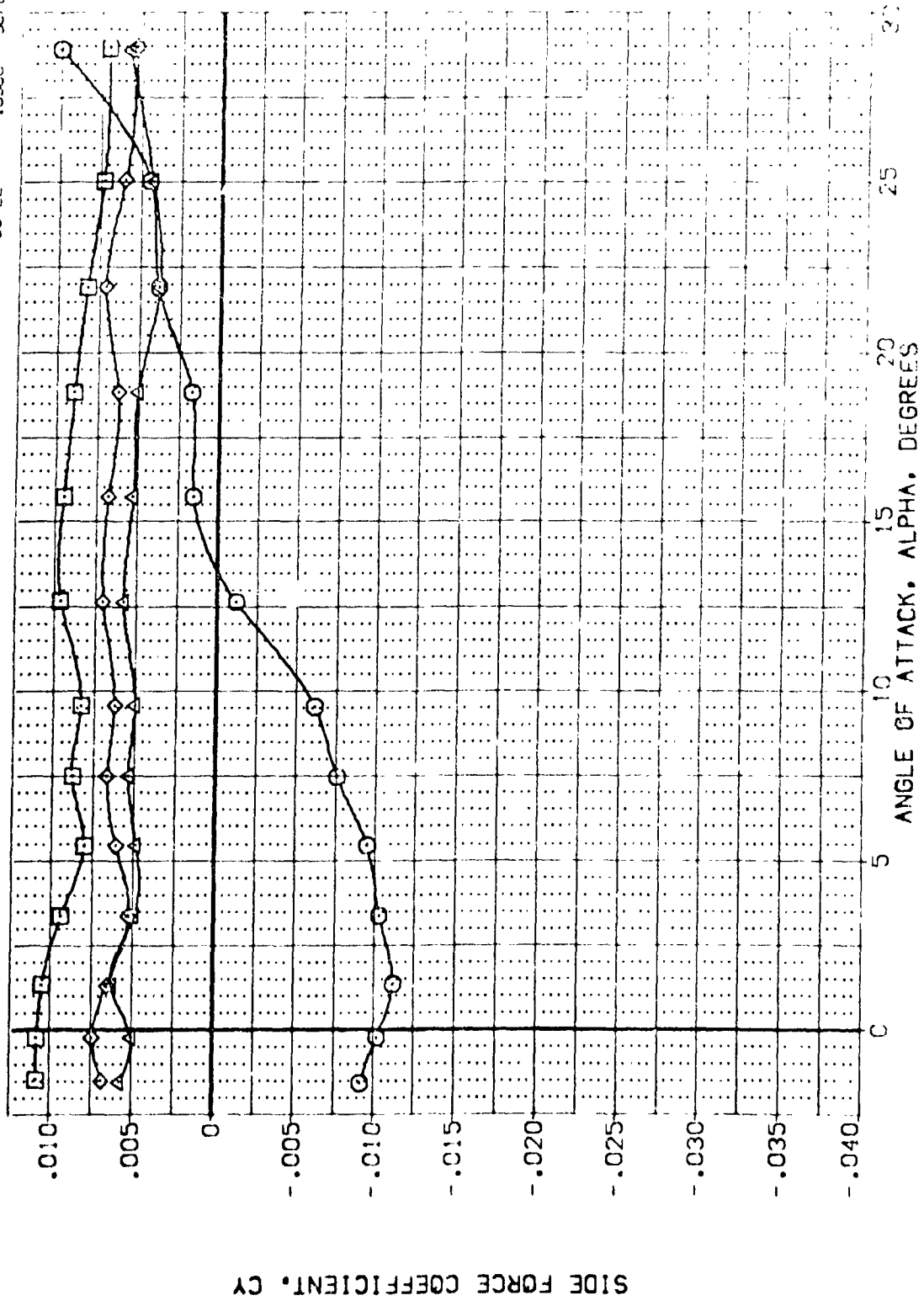


FIG. 17 AILERON EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

{AEK022}	ARC 97-747	BA538	B	C	M	F	V	V
{AEK005}	ARC 97-747	CA538	B	C	M	F	V	V
{AEK004}	ARC 97-747	CA538	B	C	M	F	V	V
{AEK021}	ARC 97-747	CA538	B	C	M	F	V	V

NOT. RN/L
NOT. RN/L
NOT. RN/L
NOT. RN/L

AILERON ELEVON BDF/LAP SPODBRK

20.000	-20.000	-11.700	55.000
5.000	-10.000	-11.700	55.000
5.000	-10.000	-11.700	55.000
10.000	-10.000	-11.700	55.000

REFERENCE INFORMATION

SREF	2.4210	SQ.FT.
LREF	14.2440	IN.
BREF	28.1004	IN.
XMRP	32.3010	IN.
YMRP	.0000	IN.
ZMRP	11.2500	IN.
SCALE	.0300	SCALE

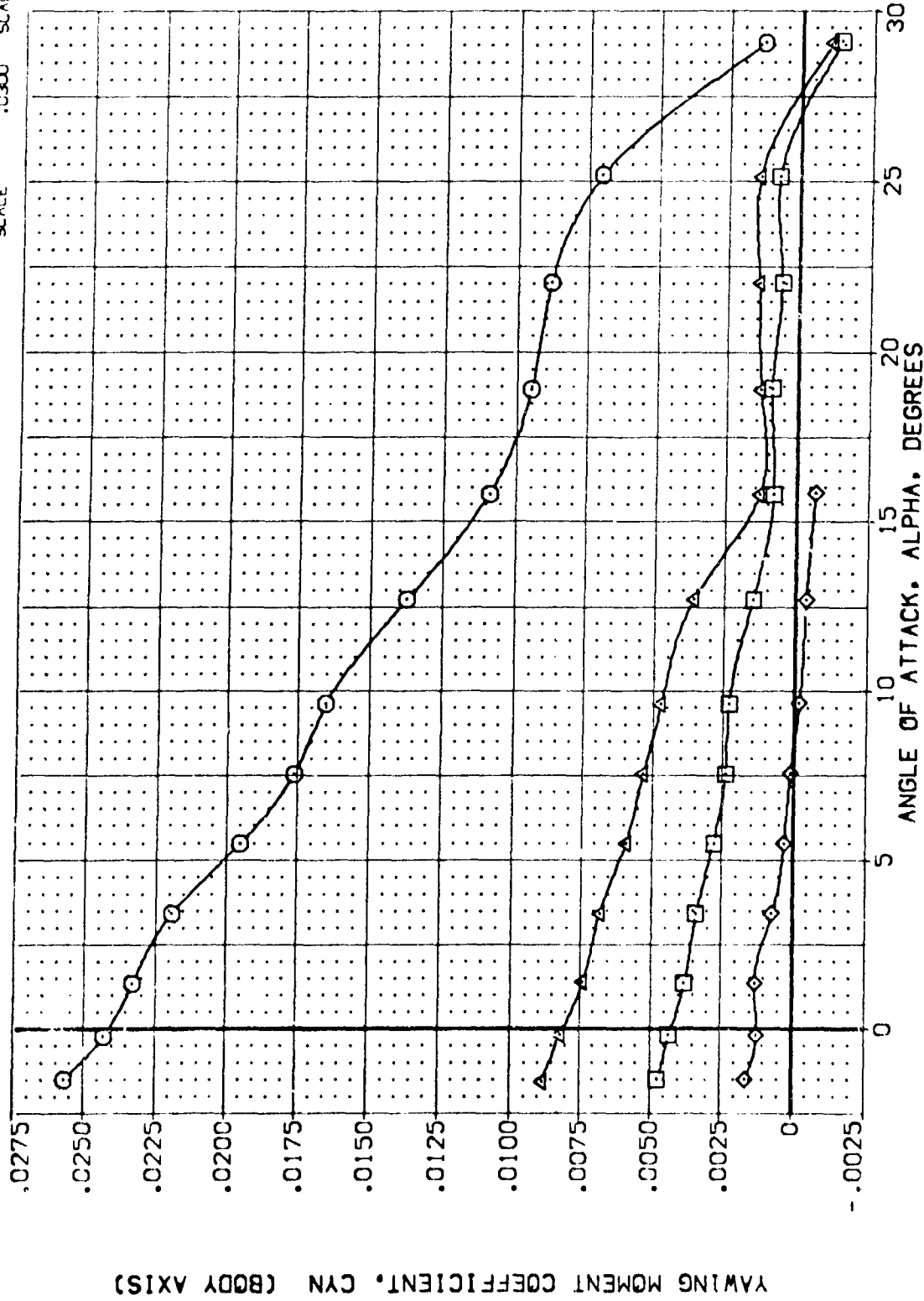


FIG. 17 AILERON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK022) ARC 97-747 GAS38 B C M F VI V NOM. RN/L
 (AEK023) ARC 97-747 GAS38 B C M F VI V NOM. RN/L
 (AEK024) ARC 97-747 GAS38 B C M F VI V NOM. RN/L
 (AEK025) ARC 97-747 GAS38 B C M F VI V NOM. RN/L

AILERON ELEVON BOFLAP SPDBRK
 20.000 -20.000 -11.700 55.000
 5.000 -10.000 -11.700 55.000
 5.000 -10.000 -11.700 55.000
 10.000 -10.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1000
 XMRD 32.5010
 YMRD 35.0000
 ZMRD 11.2500
 SCALE .0300

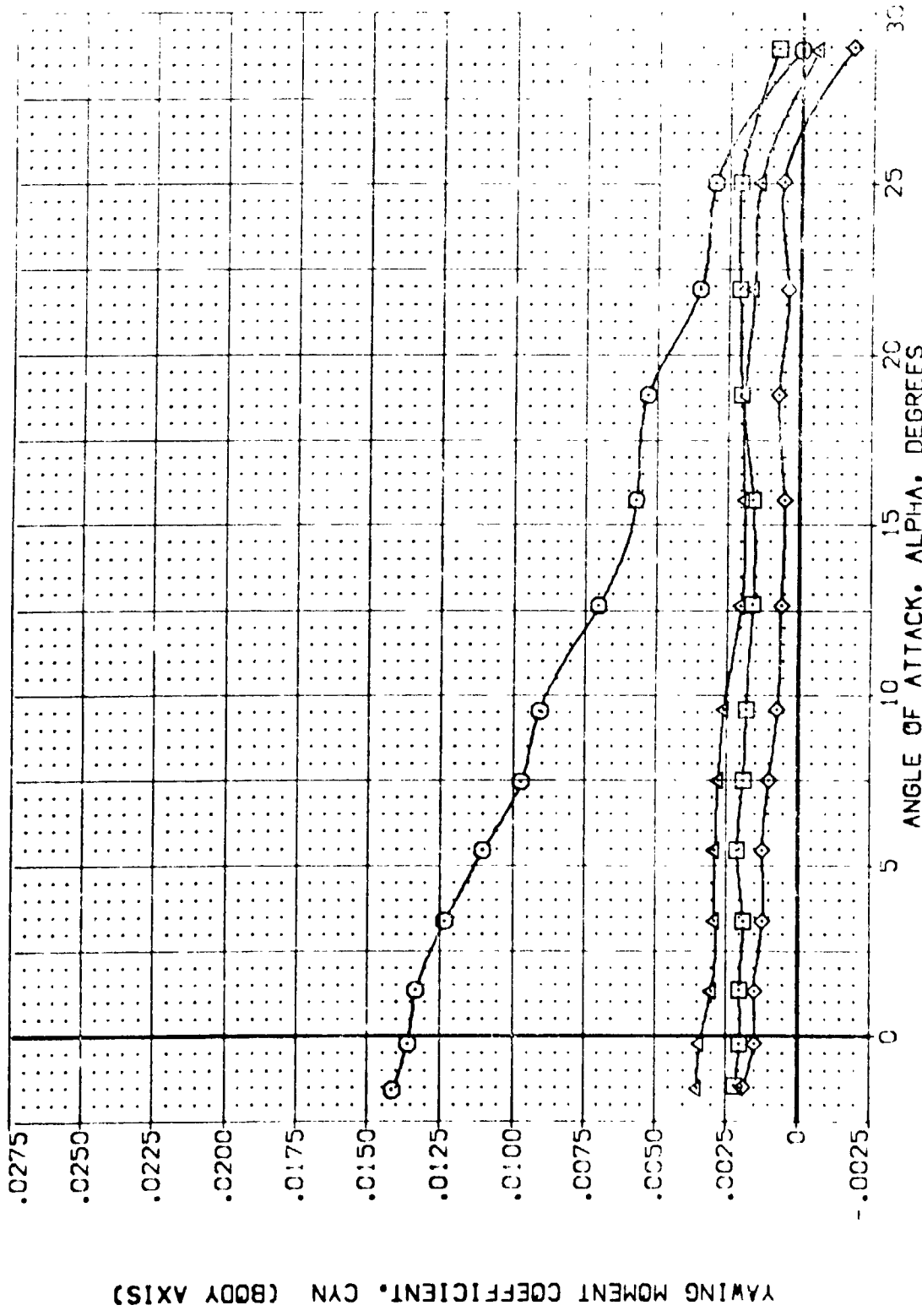


FIG. 17 AILERON EFFECTS

(B)MAC = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILERON	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ AEK072 }	ARC 97-747 OAS38 B C M F V I V	20.000	-20.000	-11.700	55.000	SREF 2.4210
{ AEK005 }	ARC 97-747 OAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	LREF 14.2440
{ AEK004 }	ARC 97-747 OAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	BREF 28.1004
{ AEK021 }	ARC 97-747 OAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	XPRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

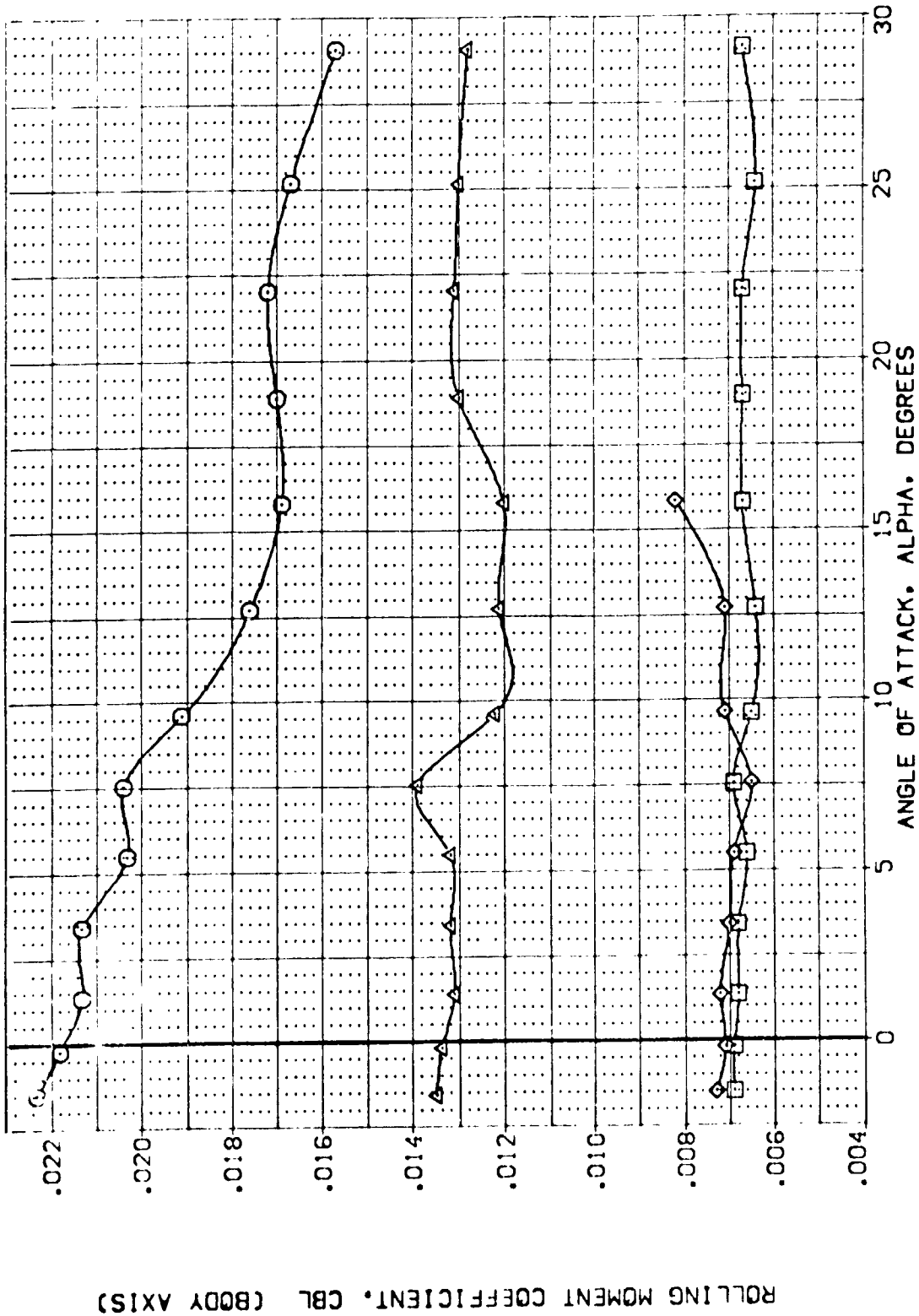


FIG. 17 AILERON EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK022) ARC 97-747 CAS38 B C M F VI V NDI, RV/L
 (AEK005) ARC 97-747 CAS38 B C M F VI V NDI, RV/L
 (AEK00A) ARC 97-747 CAS38 B C M F VI V NDI, RV/L
 (AEK021) ARC 97-747 CAS38 B C M F VI V NDI, RV/L

AIRLON ELEVON BOFLAP SPOBRN REFERENCE INFLUENCE
 20.000 -20.000 -11.700 55.000 SREF 2.4212
 5.000 -10.000 -11.700 55.000 SREF 1.42440
 5.000 5.000 -11.700 55.000 SREF 28.1001
 10.000 -10.000 -11.700 55.000 SREF 32.3010
 ZWRO 0.0000
 SCALE 11.2500 SCALE

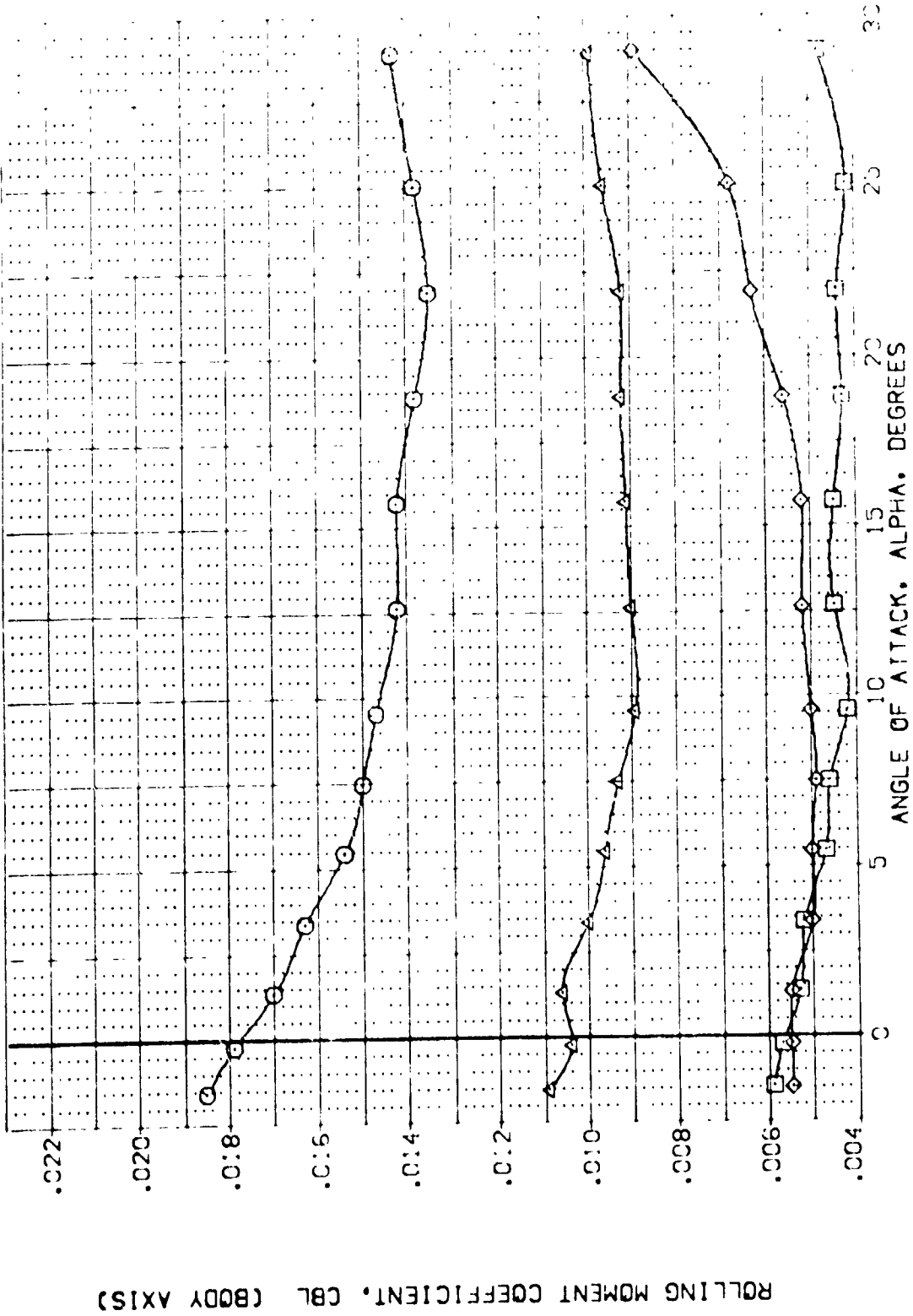


FIG. 17 AILERON EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VEP022)	□	ARC 97-747	DA538	B	C	M	F	V	V	NON	R/V/L
(VEP005)	○	ARC 97-747	DA538	B	C	M	F	V	V	NON	R/V/L
(VEP004)	△	ARC 97-747	DA538	B	C	M	F	V	V	NON	R/V/L
(VEP021)	◇	ARC 97-747	DA538	B	C	M	F	V	V	NON	R/V/L

DA 20.000 70.000 20.000 3.000 5.000 10.000

ELEVON -20.000 -20.000 -10.000 -10.000 -10.000 -10.000

BOFLAP -1.700 -1.700 -1.700 -1.700

SPOBRK 55.000 55.000 55.000 55.000

REFERENCE INFORMATION

SPEF	2.4210	50. FT.
LRPF	14.2440	
BRPF	28.1004	
AMRP	37.3010	
YMRP	11.0000	
ZMRP	11.2500	
SCALE	11.0300	

SIDE FORCE DUE TO AILERON, DCY/DA, PER DEGREE

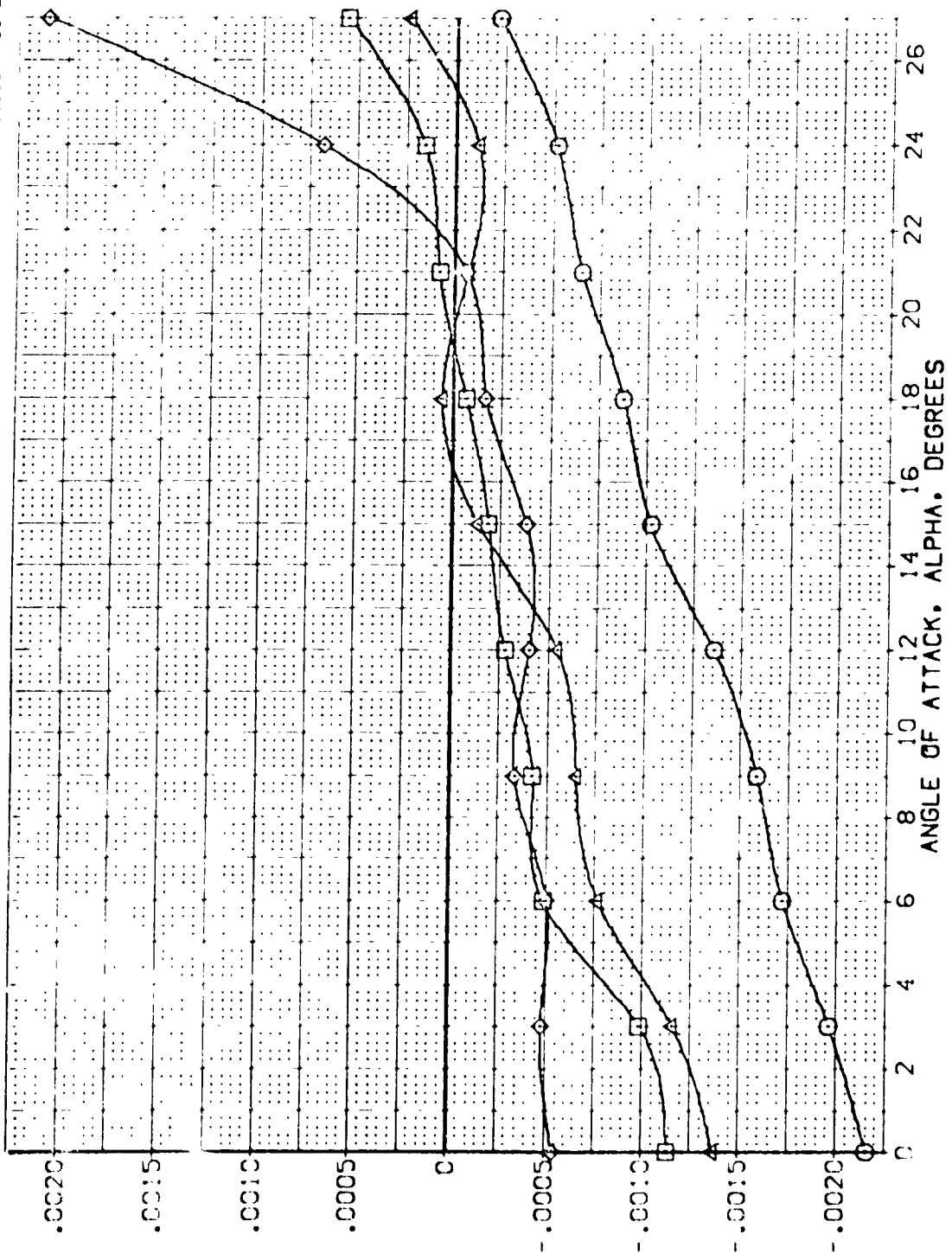


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VE#022)	ARC 97-747	BA538 B C M F VI	Y	NOT	RV/L	DA	ELEVON	BDF LAP	SPOBRK	SREF	2.4210
(VE#005)	ARC 97-747	DA538 B C M F VI	V	NOT	RV/L	5.000	-20.000	-11.700	55.000	LREF	14.2440
(VE#004)	ARC 97-747	DA538 B C M F VI	V	NOT	RV/L	5.000	-10.000	-11.700	55.000	SREF	28.1304
(VE#021)	ARC 97-747	DA538 B C M F VI	V	NOT	RV/L	10.000	-10.000	-11.700	55.000	YMRP	32.3010

YMRP 0000
ZMRP 11.2000
SCALE 1.5500

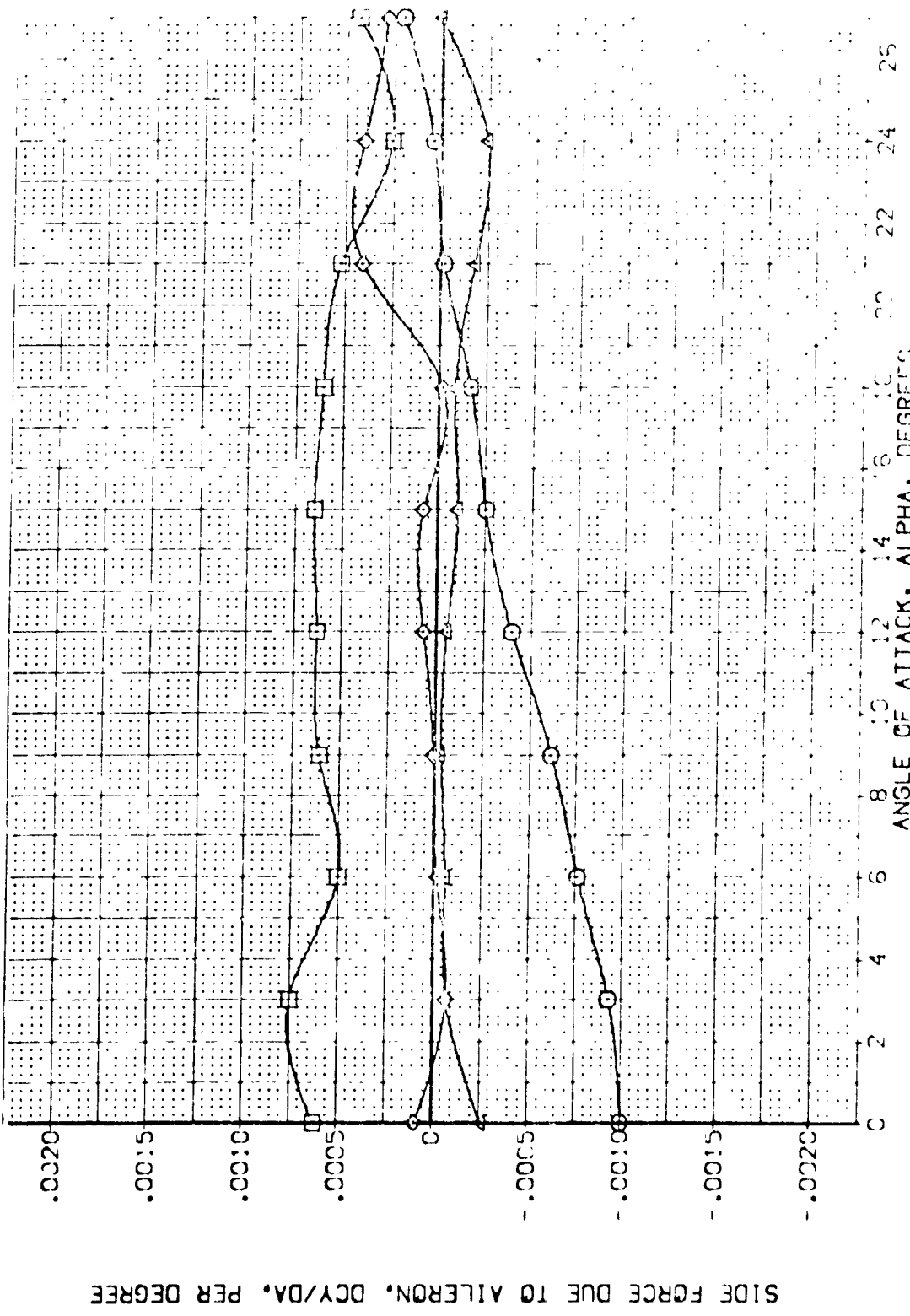


FIG. 18AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VE4022)	ARC 57-747 0A538 B C M F VI	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(VE4005)	ARC 57-747 0A538 B C M F VI	5.000	-10.000	-11.700	55.000	LREF 14.2410
(VE4004)	ARC 57-747 0A538 B C M F VI	5.000	0.000	-11.700	55.000	BREF 28.1004
(VE4021)	ARC 57-747 0A538 B C M F VI	10.000	-10.000	-11.700	55.000	XMRP 32.3010
						YMRP 0.0000
						ZMRP 11.7500
						SCALE 0.0300

YAWING MOMENT DUE TOAILERON, DCYND, PER DEGREE, (BODY AXIS)

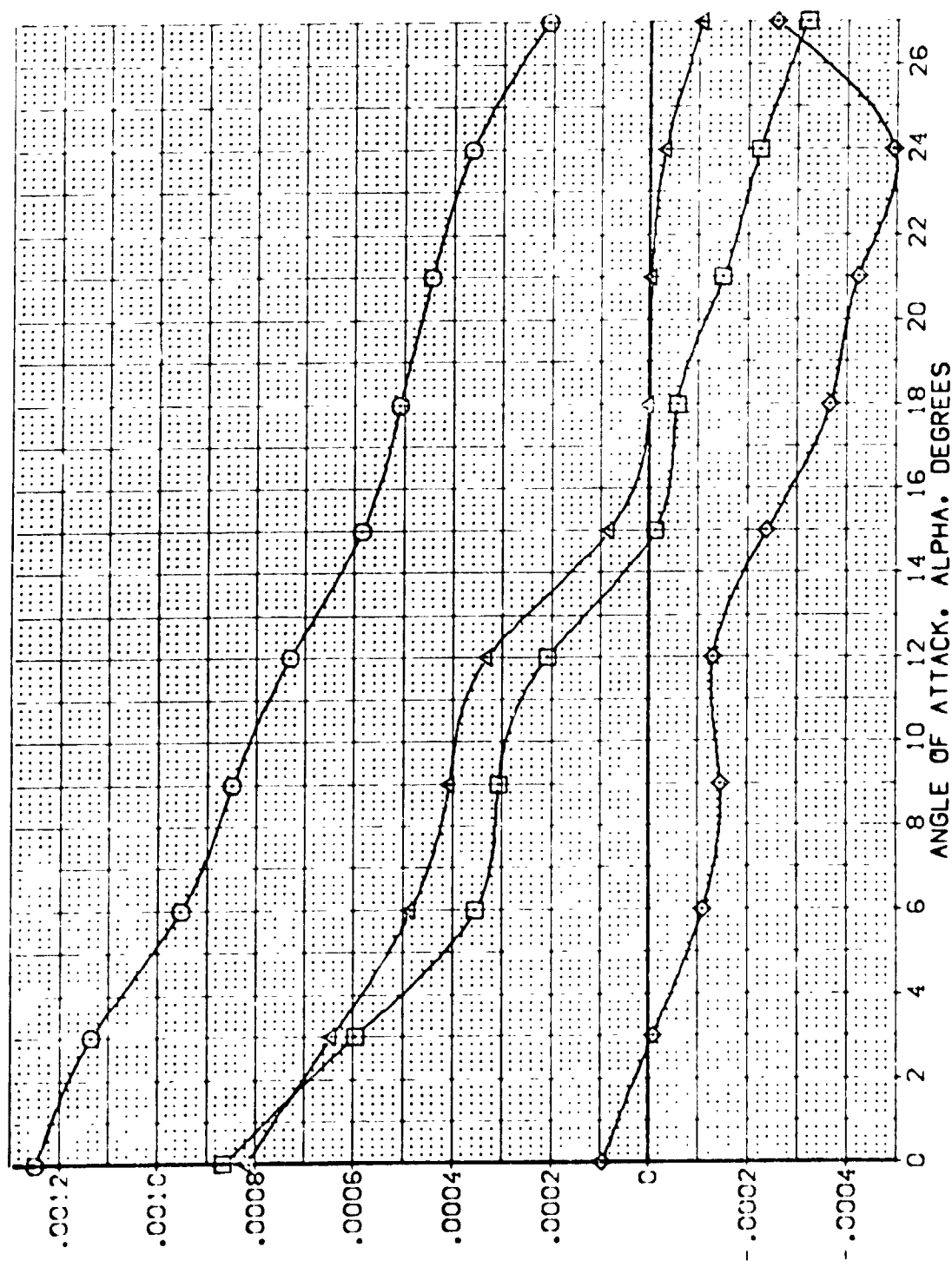


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBOL: [VEK022], [VEK005], [VEK004], [VEK021]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V, ARC 97-747 CAS38 B C M F VI V, ARC 97-747 CAS38 B C M F VI V, ARC 97-747 CAS38 B C M F VI V

NON: RV/L, NON: RV/L, NON: RV/L, NON: RV/L

DA: 20.000, 5.000, 5.000, 10.000

ELEVON: -20.000, -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700, -11.700

SPDBRK: 55.000, 55.000, 55.000, 55.000

REFERENCE INFORMATION: SREF: 2.4710, LREF: 14.2440, BREF: 28.1004, XMRP: 32.3510, YMRP: 33.0000, ZMRP: 11.2500, SCALE: 1.0330

YAWING MOMENT DUE TOAILERON, DCYNDA, PER DEGREE, (BODY AXIS)

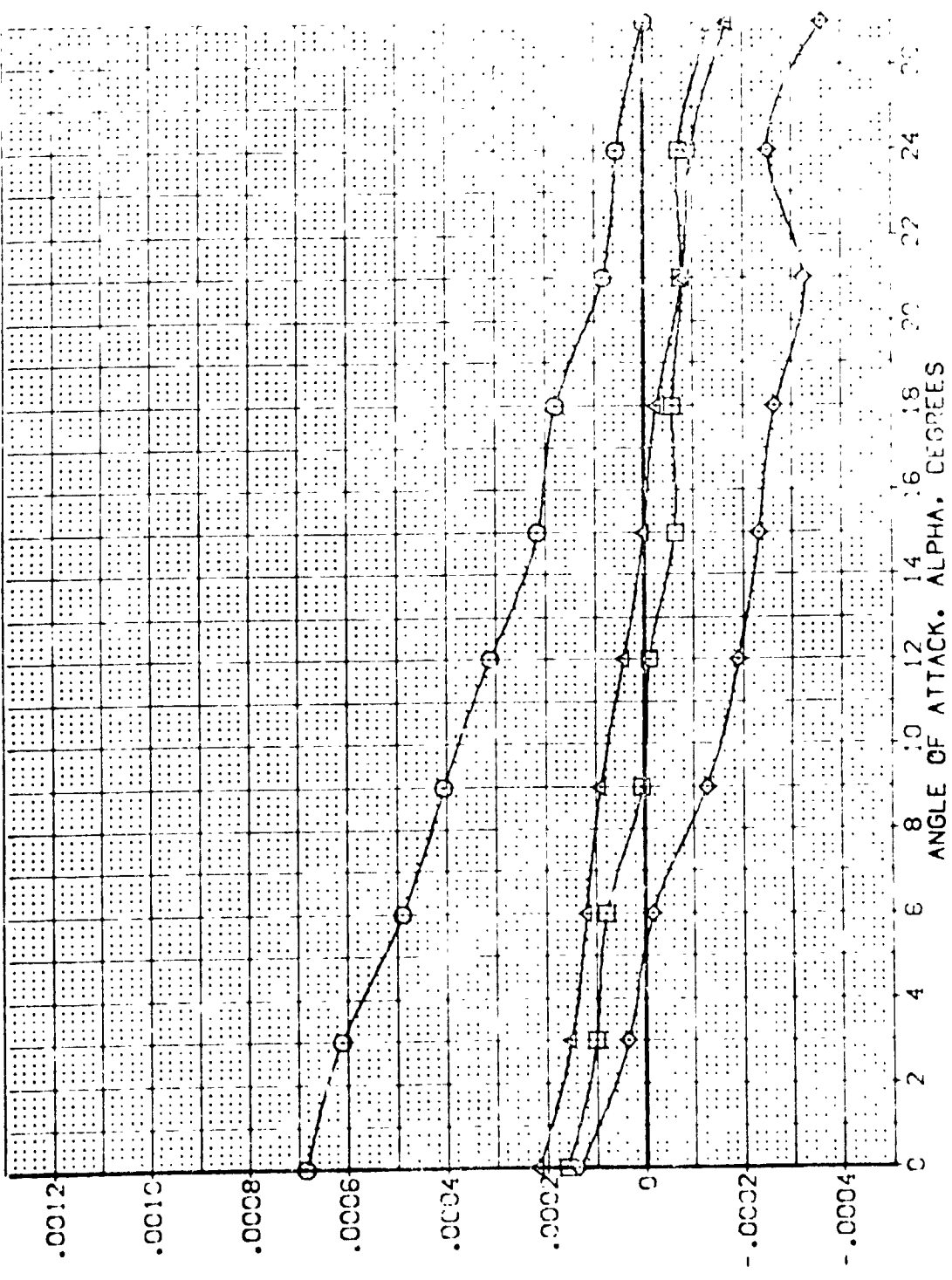


FIG. 18AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00



ROLLING MOMENT DUE TOAILERON, DCBLDA, PER DEGREE, (BODY AXIS)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPOBBRK	REFERENCE INFORMATION
{VE#022}	ARC 57-747 BA538 B C M F V	20.000	-20.000	-11.700	55.000	SREF 2.4210 SQ.FT.
{VE#005}	ARC 57-747 BA538 B C M F V	5.000	-10.000	-11.700	55.000	LREF 14.2440
{VE#004}	ARC 57-747 BA538 B C M F V	5.000	.000	-11.700	55.000	BREF 28.1004
{VE#071}	ARC 57-747 BA538 B C M F V	10.000	-10.000	-11.700	55.000	XREF 32.3010
						YREF .0000
						ZREF 11.2500
						SCALE .0300

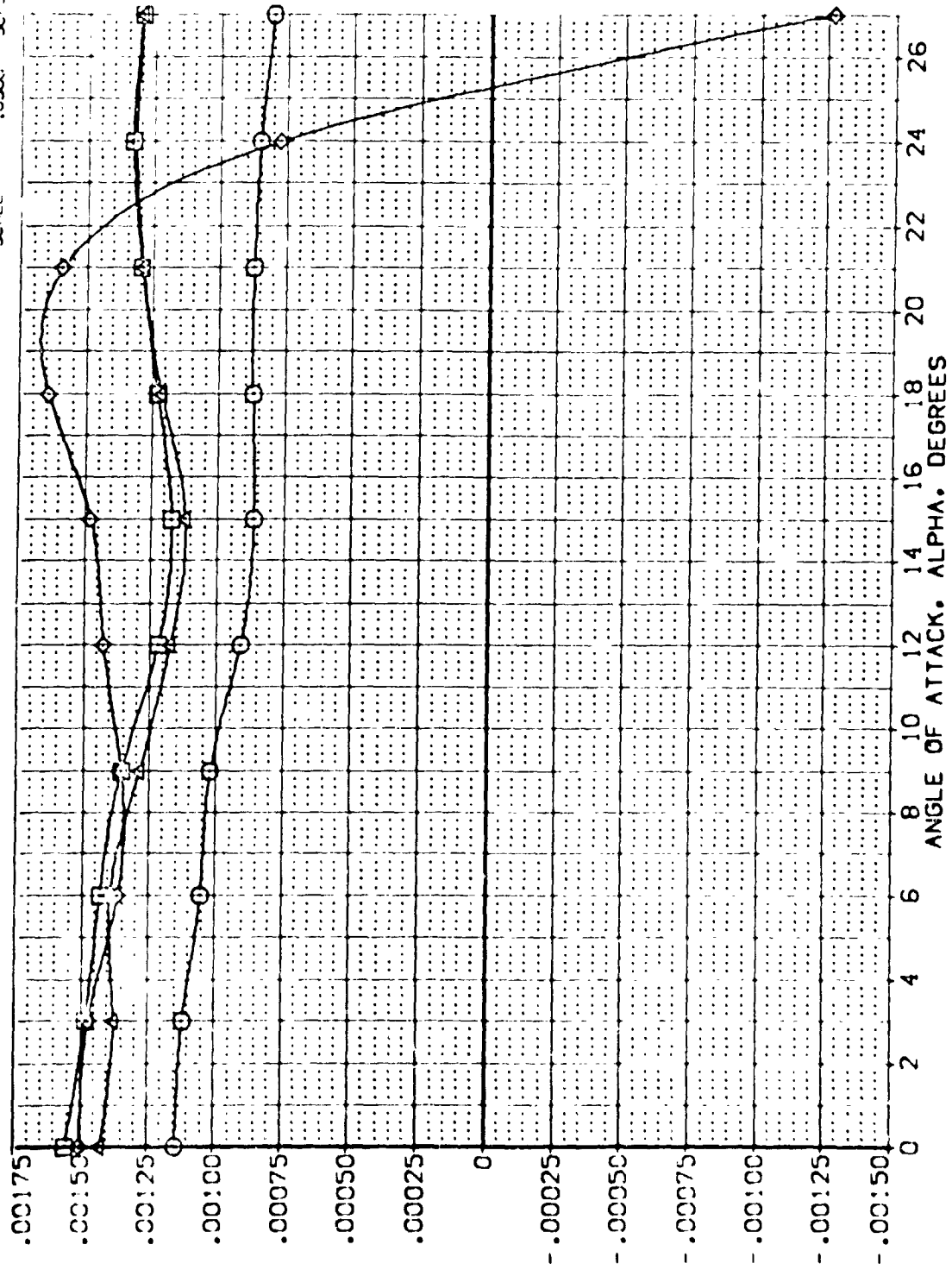


FIG. 18AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

ROLLING MOMENT DUE TO ALERON, DCBLDA, PER DEGREE, (BODY AXIS)

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BDF LAR	SPOORAK	REFERENCE INFORMATION
{VEP022}	ARC 97-747 GAS38 B C M F V I V	20.000	-20.000	-11.700	55.000	SREF 2.4210
{VEP003}	ARC 97-747 GAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	LREF 14.7340
{VEP004}	ARC 97-747 GAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	SREF 28.1000
{VEP021}	ARC 97-747 GAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	LREF 32.3500
						MREF 13.000
						ZMREF 11.2500
						SCALE 10.000

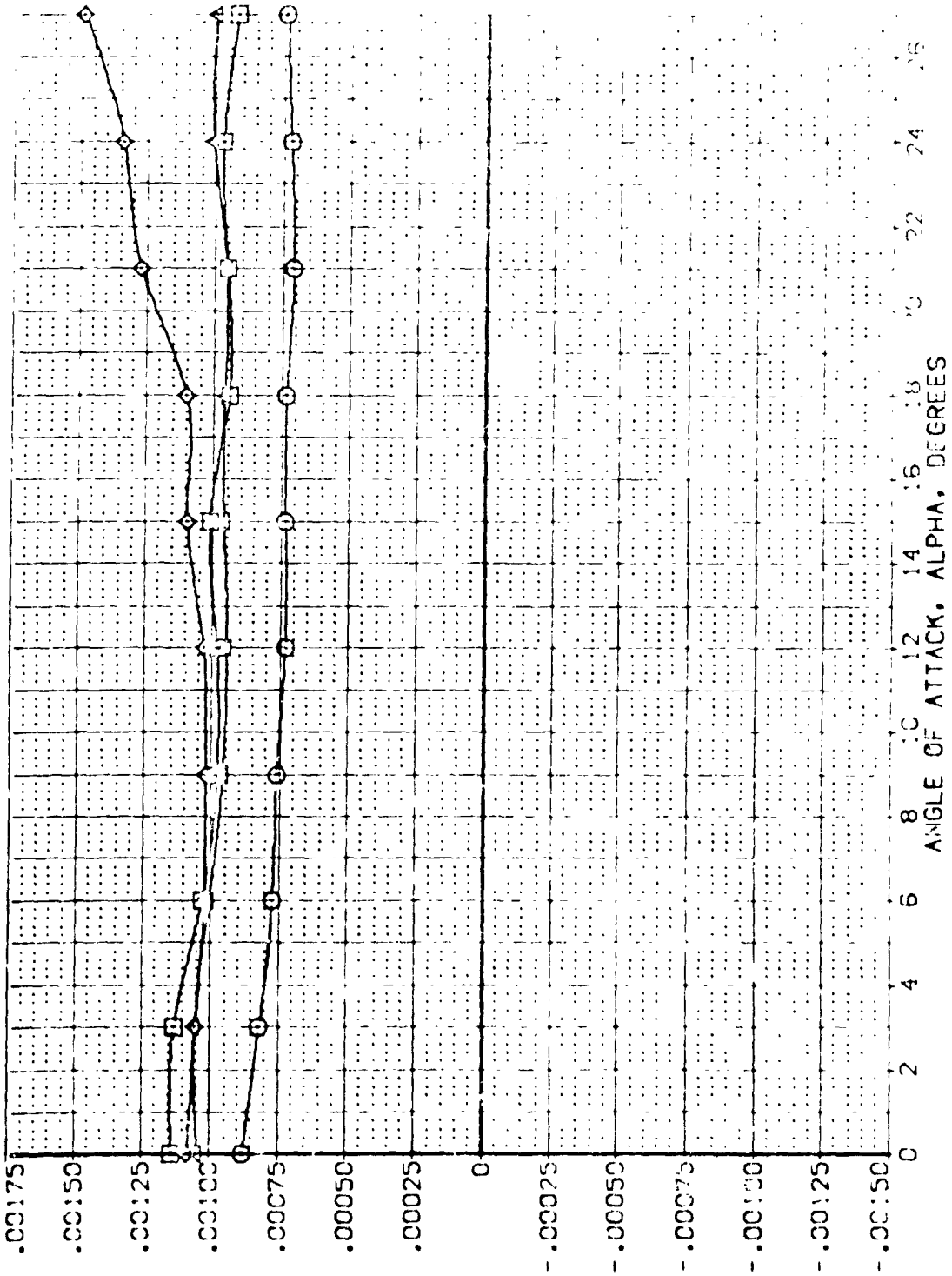


FIG. 18 ALERON EFFECTIVENESS DERIVATIVES

(MACH = 2.00)

PITCHING MOMENT COEFF. DERIV. WRT AILERON DEFL., DCLMDA, PER DEG

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(VEK022)	ARC 97-747 DAS38 B C M F V I V	20.000	-20.000	-11.700	55.000	SREF 2.4210
(VEK003)	ARC 97-747 DAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	BREF 14.2440
(VEK004)	ARC 97-747 DAS38 B C M F V I V	5.000	-10.000	-11.700	55.000	BREF 28.1004
(VEK021)	ARC 97-747 DAS38 B C M F V I V	10.000	-10.000	-11.700	55.000	YMRP 32.3010
						ZMRP .0000
						ZMRP 11.2500
						SCALE .0300

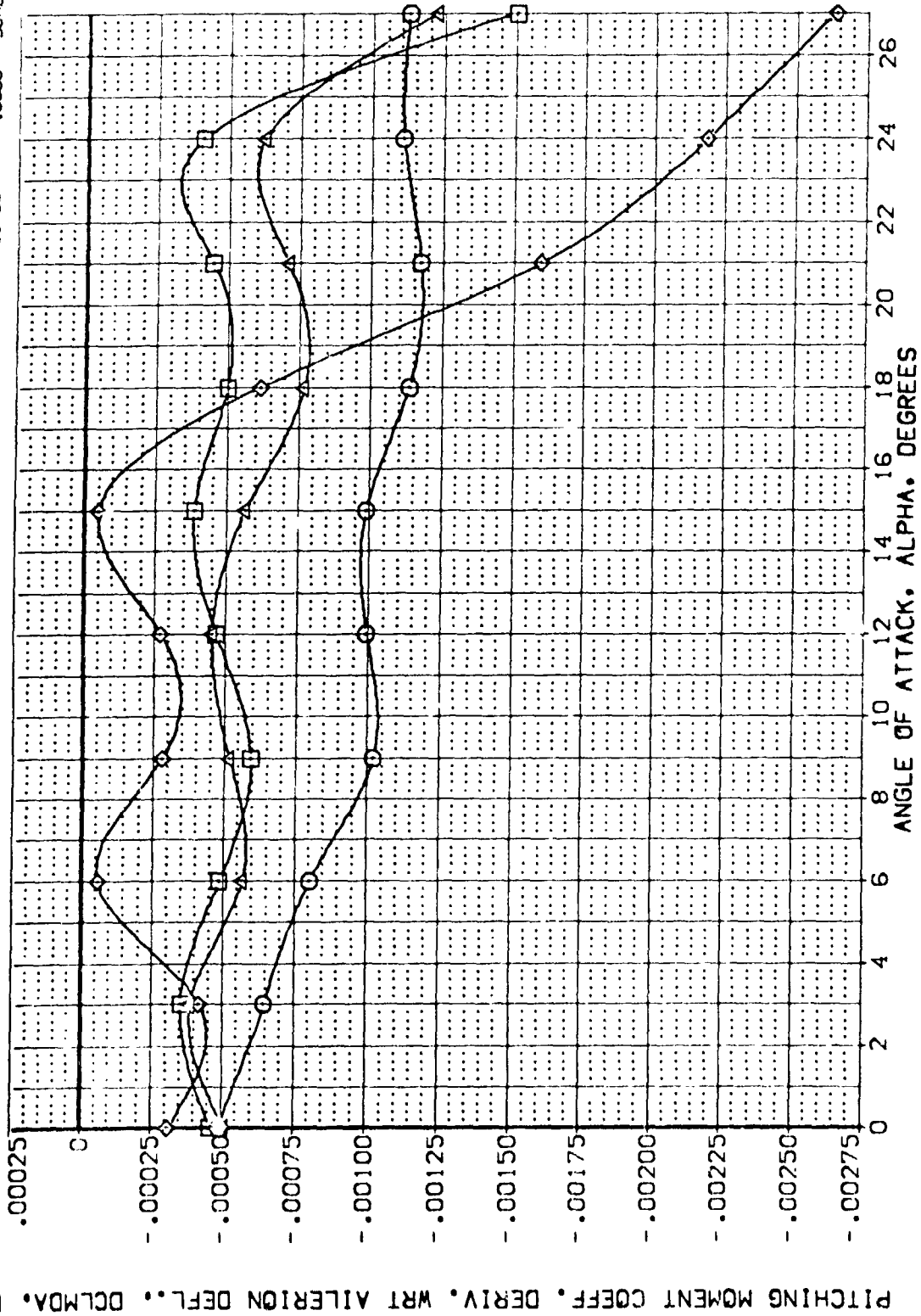


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(A)MACH = 1.60

DATA SET SYMBO. CONFIGURATION DESCRIPTION

[VEK022]	ARC 97-747	0AS38	B	C	M	F	V	I	V
[VEK005]	ARC 97-747	0AS38	B	C	M	F	V	I	V
[VEK004]	ARC 97-747	0AS38	B	C	M	F	V	I	V
[VEK021]	ARC 97-747	0AS38	B	C	M	F	V	I	V

NOT. RVUL
 NOT. RVUL
 NOT. RVUL
 NOT. RVUL

DA 20.000
 5.000
 5.000
 10.000

ELEVON -20.000
 -10.000
 -10.000
 -10.000

BDFLAP -11.700
 -11.700
 -11.700
 -11.700

SPOBRK 55.000
 55.000
 55.000
 55.000

REFERENCE INFORMATION
 SPREF 2.4210 SCALE
 LRREF 14.2540
 BRREF 78.1504
 XMRP 37.3010
 YMRP .0000
 ZMRP 11.7000 SCALE

PITCHING MOMENT COEFF. DERIV. WRT AILERON DEF., DCLMDA, PER DEG

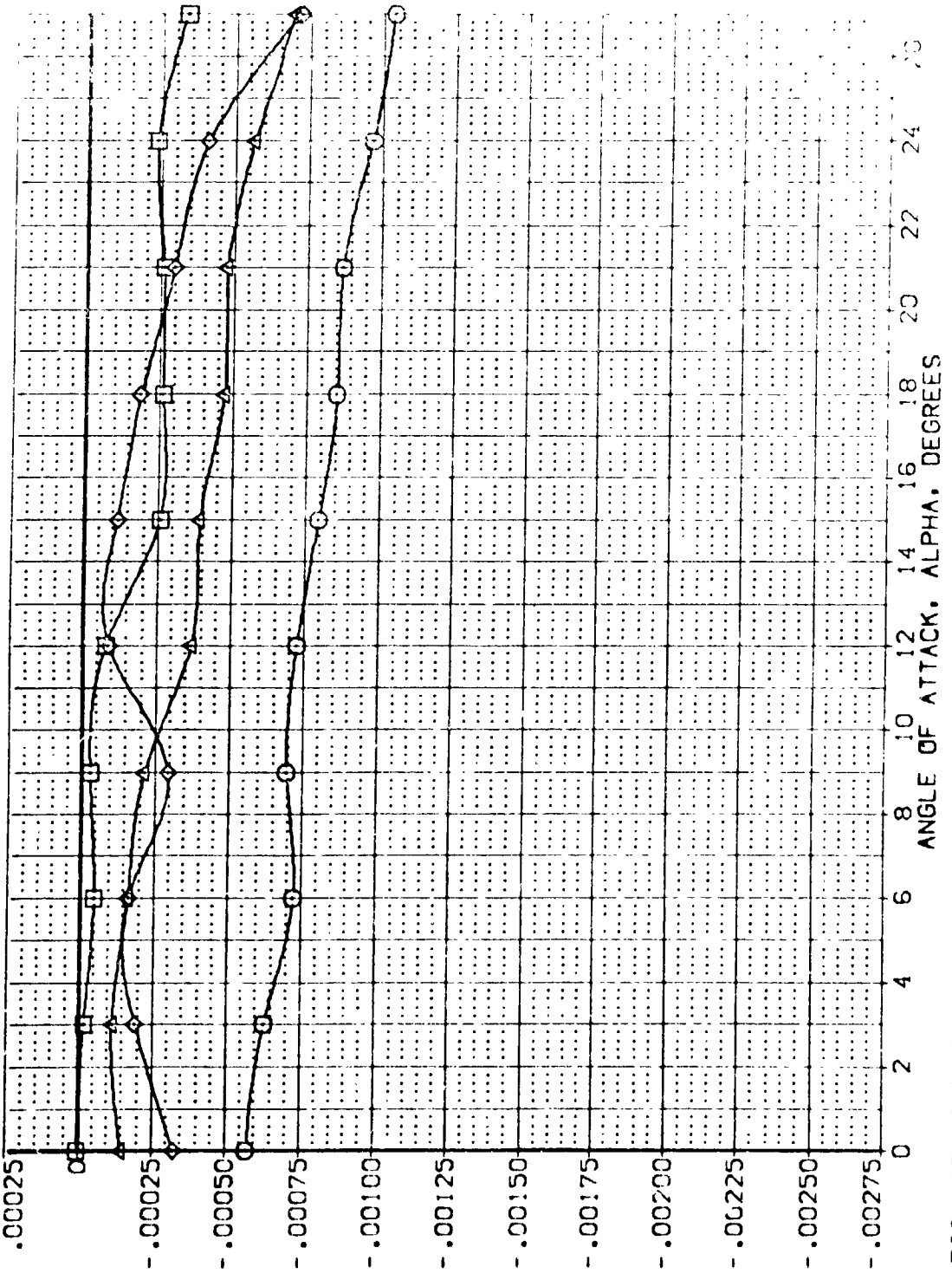


FIG. 18 AILERON EFFECTIVENESS DERIVATIVES

(B)MACH = 2.00



DATA SET SYMBOL: [AEMC35] [AEMC36] [AEMC37]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 ARC 97-747 CAS38 B C M F VI V NOM. RV/L

ALPHA: .000, 10.000, 20.000

RUDDER: 10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF: 2.4210 SQ. FT.
 LREF: 14.2440
 BREF: 28.1004
 XMRP: 37.3010
 YMRP: .0000
 ZMRP: .0000
 SCALE: 11.2500

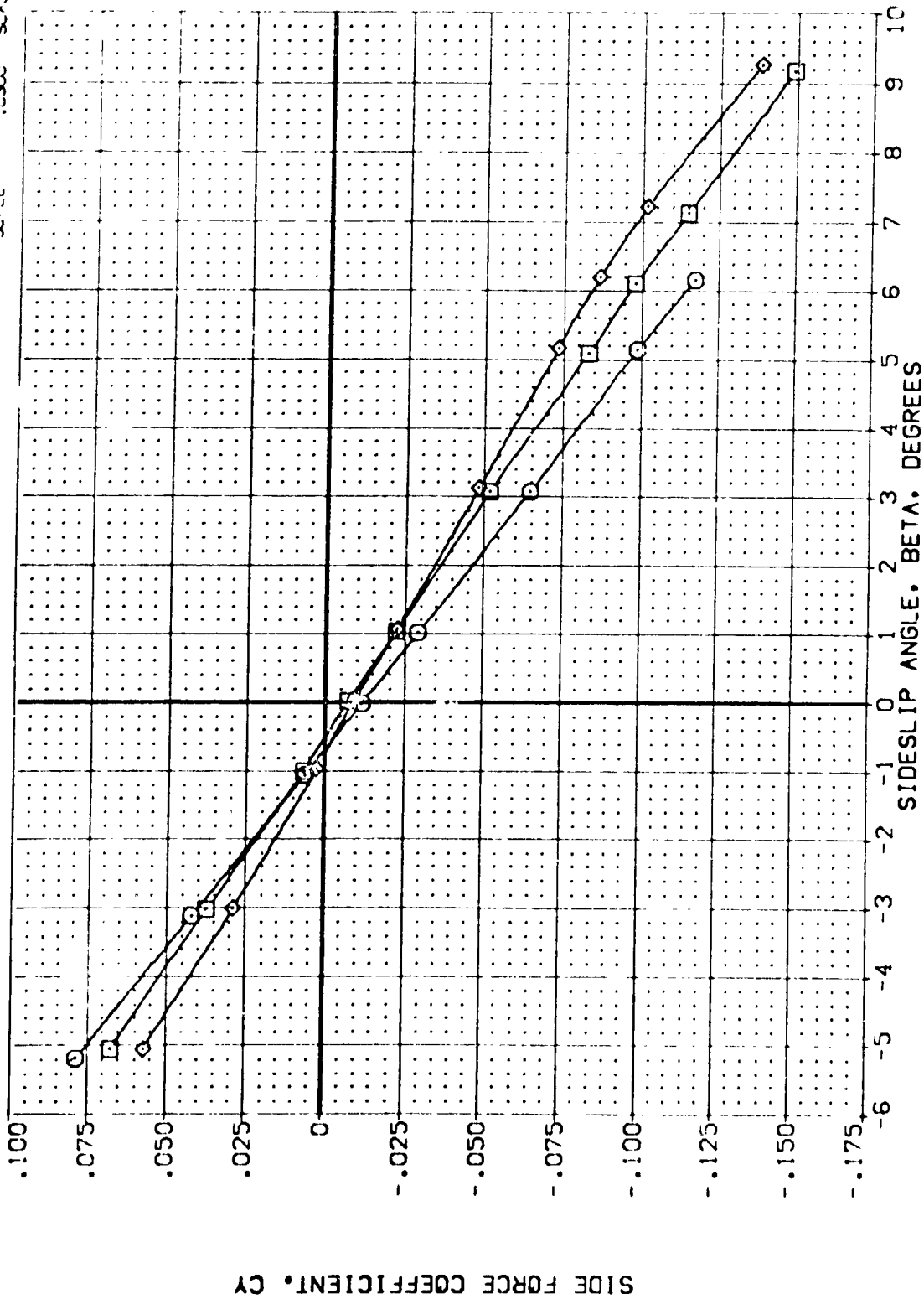


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEK035) ARC 97-747 DA538 B C M F VI V

(AEK036) ARC 97-747 DA538 B C M F VI V

(AEK037) ARC 97-747 DA538 B C M F VI V

NON. RN/L

NON. RN/L

NON. RN/L

SPDRK SPOBRK

10.000 25.000

10.000 25.000

20.000 25.000

ALPHA RUDDER BDFLAP

0.000 -10.000 -11.700

10.000 -10.000 -11.700

20.000 -10.000 -11.700

REFERENCE INFORMATION:

SREF 2.4210 SQ.FT.

LREF 14.244C

BREF 28.100A

MREF 32.301C

YMRP .0000

ZMRP .0000

SCALE 11.295C

SCALE

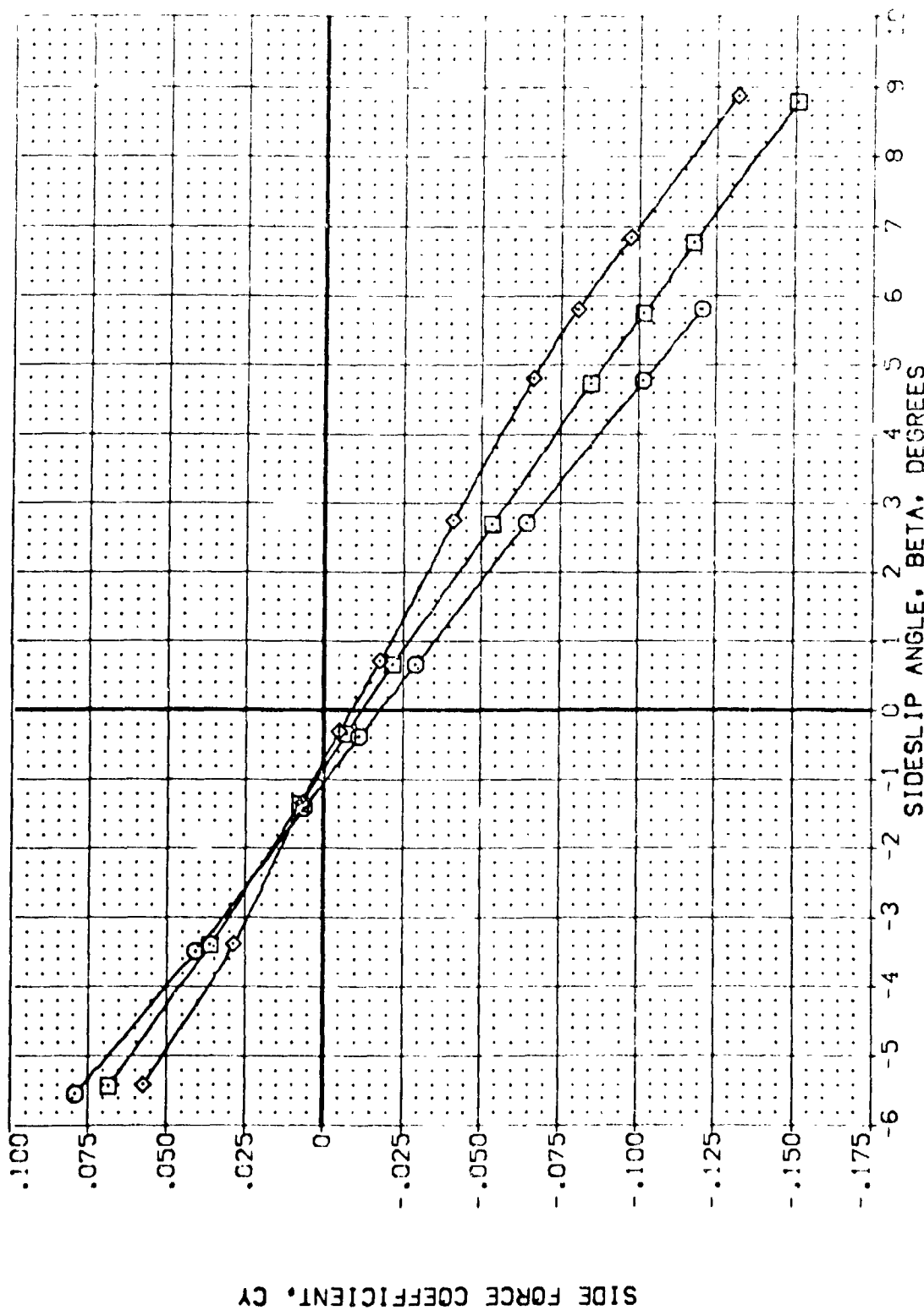


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(9)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER SPOBRK REFERENCE INFORMATION

{AEK035}	ARC 97-747 0A538 B C M F V1 V	.000	-10.000	25.000	SREF	2.4210
{AEK036}	ARC 97-747 0A538 B C M F V1 V	10.000	-10.000	25.000	LREF	14.2440
{AEK037}	ARC 97-747 0A538 B C M F V1 V	20.000	-10.000	25.000	BREF	28.1004
					XMRP	32.3010
					YMRP	.0000
					ZMRP	.0000
					SCALE	11.2500
						.0300

SO. FT. IN. IN. IN. IN. IN. IN. IN.

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

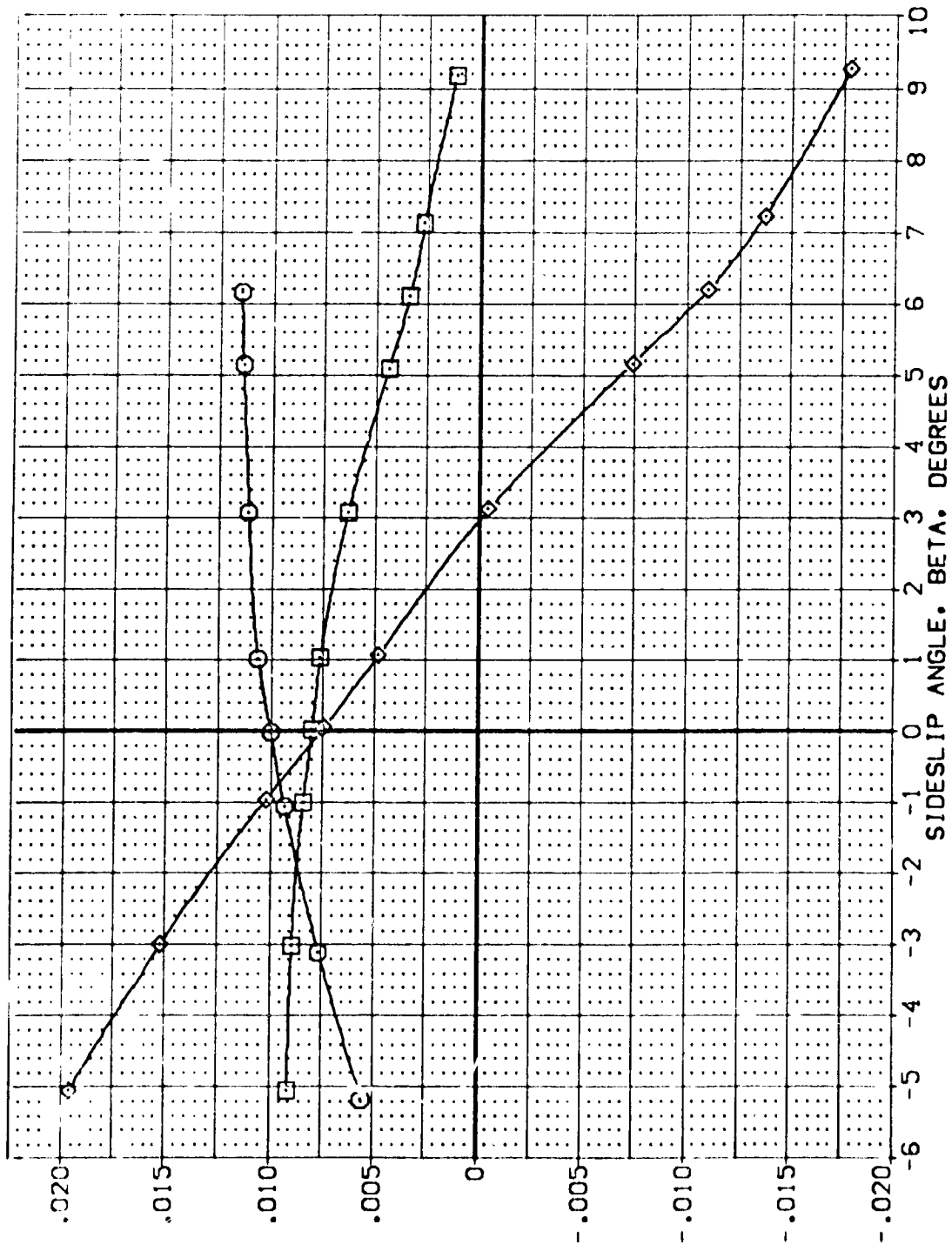


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL
 (AEK035)
 (AEK036)
 (AEK037)

CONFIGURATION DESCRIPTION
 ARC 97-747 GAS38 B C M F V | V
 ARC 97-747 GAS38 B C M F V | V
 ARC 97-747 GAS38 B C M F V | V

NDM, RVUL
 NDM, RVUL
 NDM, RVUL

ALPHA
 .000
 10.000
 20.000

RUDDER
 -10.000
 -10.000
 -10.000

BOFLAP
 -11.700
 -11.700
 -11.700

SPEEDK
 25.000
 25.000
 25.000

REFERENCE INFORMATION
 SPREF 2.4210 50. FT.
 LREF 14.2440
 BRREF 28.1004
 XMRP 32.3010
 YMRP 10.0000
 ZMRP 11.2500
 SCALE .0300

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

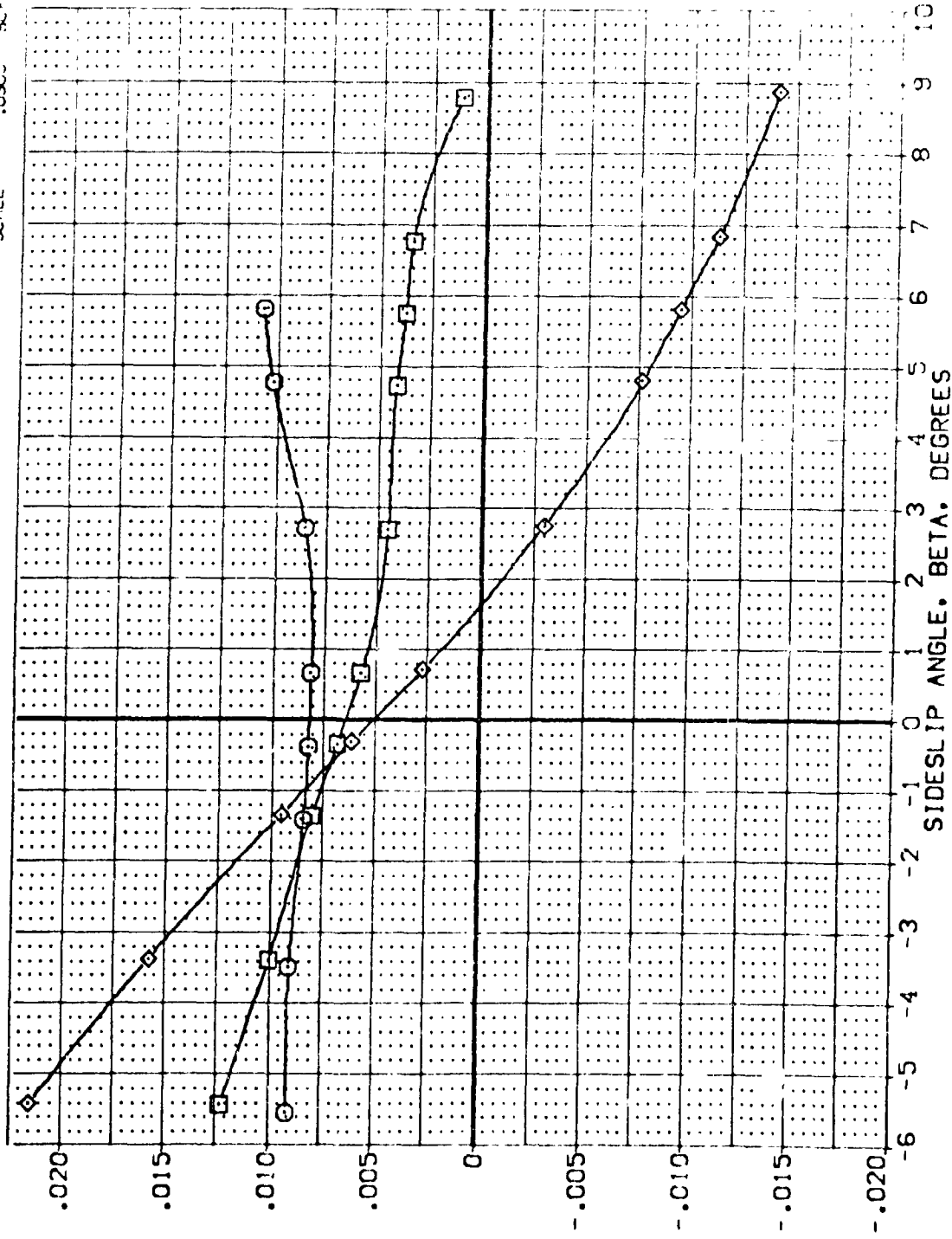


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(B)MACH = 2.00

DATA SET SYMBOL COM POSITION DESCRIPTION REFERENCE INFORMATION

ALPHA	RUDDER	BOFLAP	SPOBRK	SREF	2.4210	SO.FT.
10.000	-10.000	1.700	25.000	REF	14.2440	
20.000	-10.000	1.700	25.000	SP11	78.1004	
	-10.000	-1.700	25.000	YMRP	32.3010	
				ZMRP	1.0000	
				SCALE	11.7500	
					.0300	SCALE

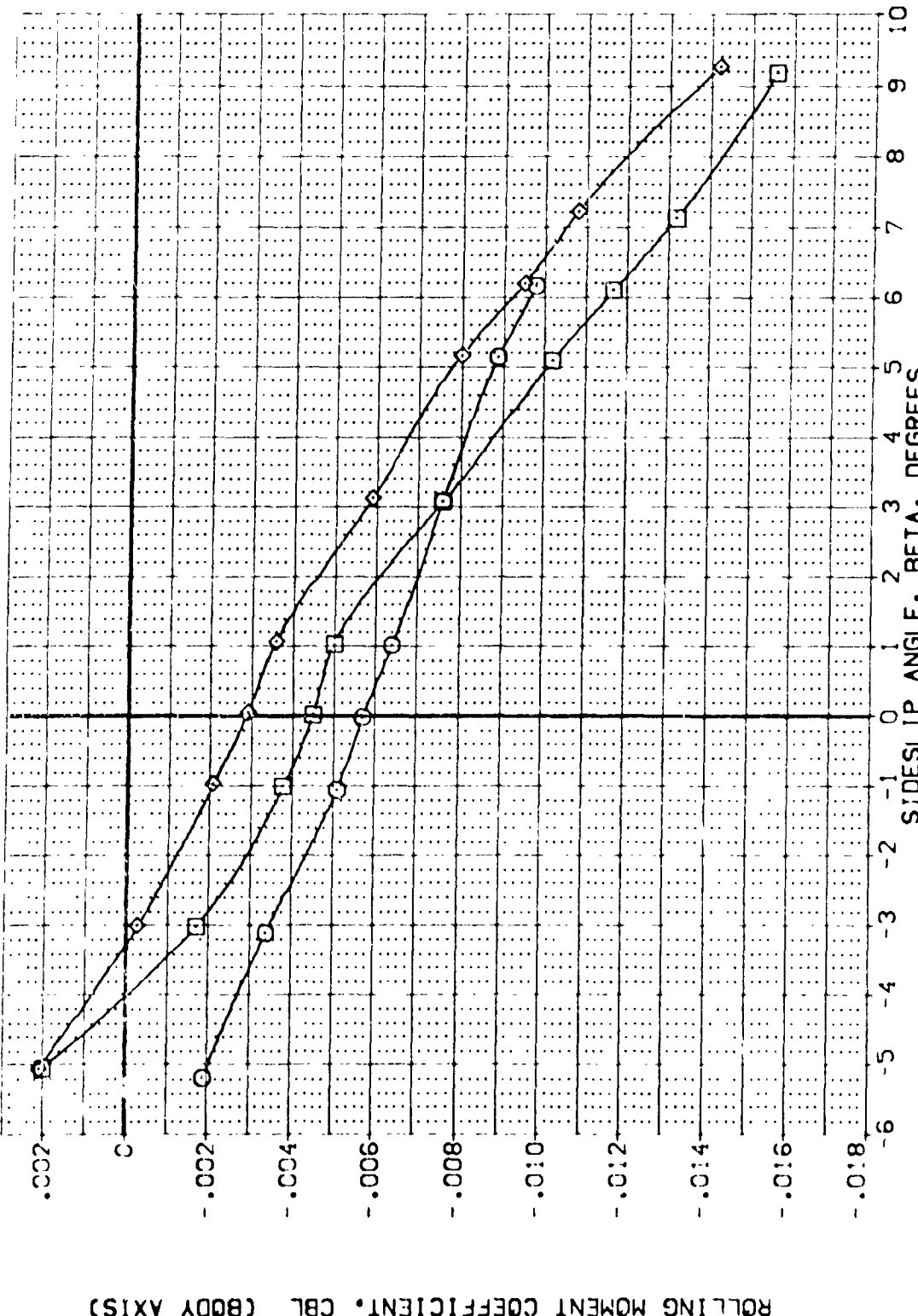


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL
 (AEK026)
 (AEK036)
 (AEK037)

CONFIGURATION DESCRIPTION
 ARC 97-747 GA538 B C M F V : Y N01, RNL
 ARC 97-747 GA538 B C M F V : Y N01, RNL
 ARC 97-747 GA538 B C M F V : Y N01, RNL

ALPHA
 0.000
 10.000
 20.000

RUDDER
 0.000
 0.000
 0.000

BUFLAP
 0.700
 0.700
 0.700

SPEED
 25.000
 25.000
 25.000

REFERENCE INCHES
 SPAC 2.4210 SCALE
 LREF 14.0000
 BREF 26.0000
 VREF 32.0000
 VREF 32.0000
 VREF 32.0000
 SCALE 10.0000 SCALE

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

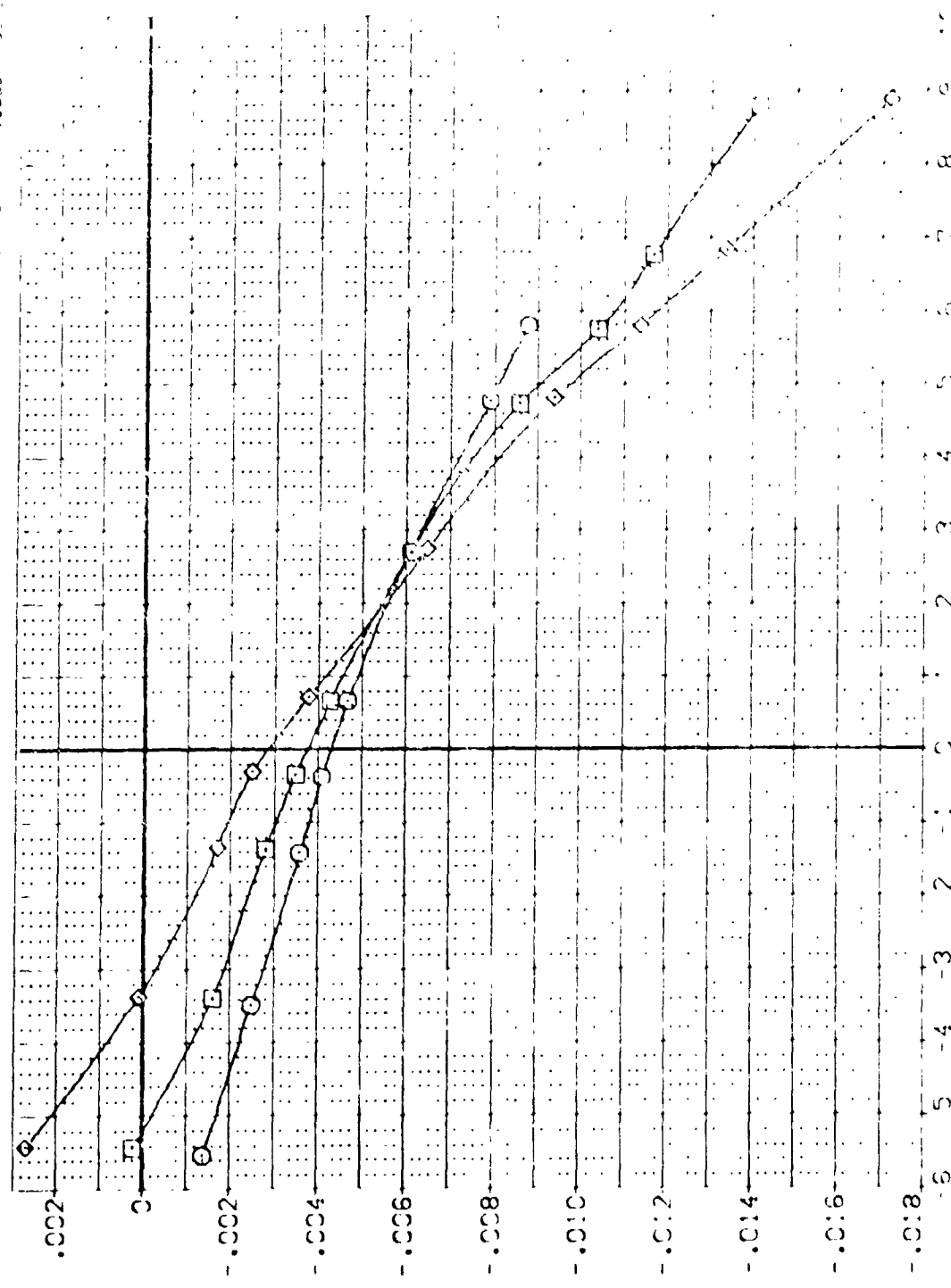


FIG. 19 RUDDER EFFECTS, SPEEDBRAKE 25 DEGREES

(B)MACH = 2.00



DATA S	SYMBOL	CONFIGURATIONS	DESCRIPTION	ALPHA	RUDDER	BETA	AP	SPEED	REFERENCE INFORMATION	SCALE
1	○	ABC 87-240	21 25 B	10.000	10.000	7.00	7.00	55.000	SPR 2.4210	50.00
2	○	ABC 87-240	21 25 B	10.000	10.000	7.00	7.00	55.000	SPR 14.2440	50.00
3	○	ABC 87-240	21 25 B	20.000	10.000	7.00	7.00	55.000	SPR 28.1000	50.00
4	○	ABC 87-240	21 25 B	20.000	20.000	7.00	7.00	55.000	SPR 30.0000	50.00
5	○	ABC 87-240	21 25 B	15.000	20.000	7.00	7.00	55.000	SPR 30.0000	50.00
6	○	ABC 87-240	21 25 B	20.000	20.000	7.00	7.00	55.000	SPR 30.0000	50.00

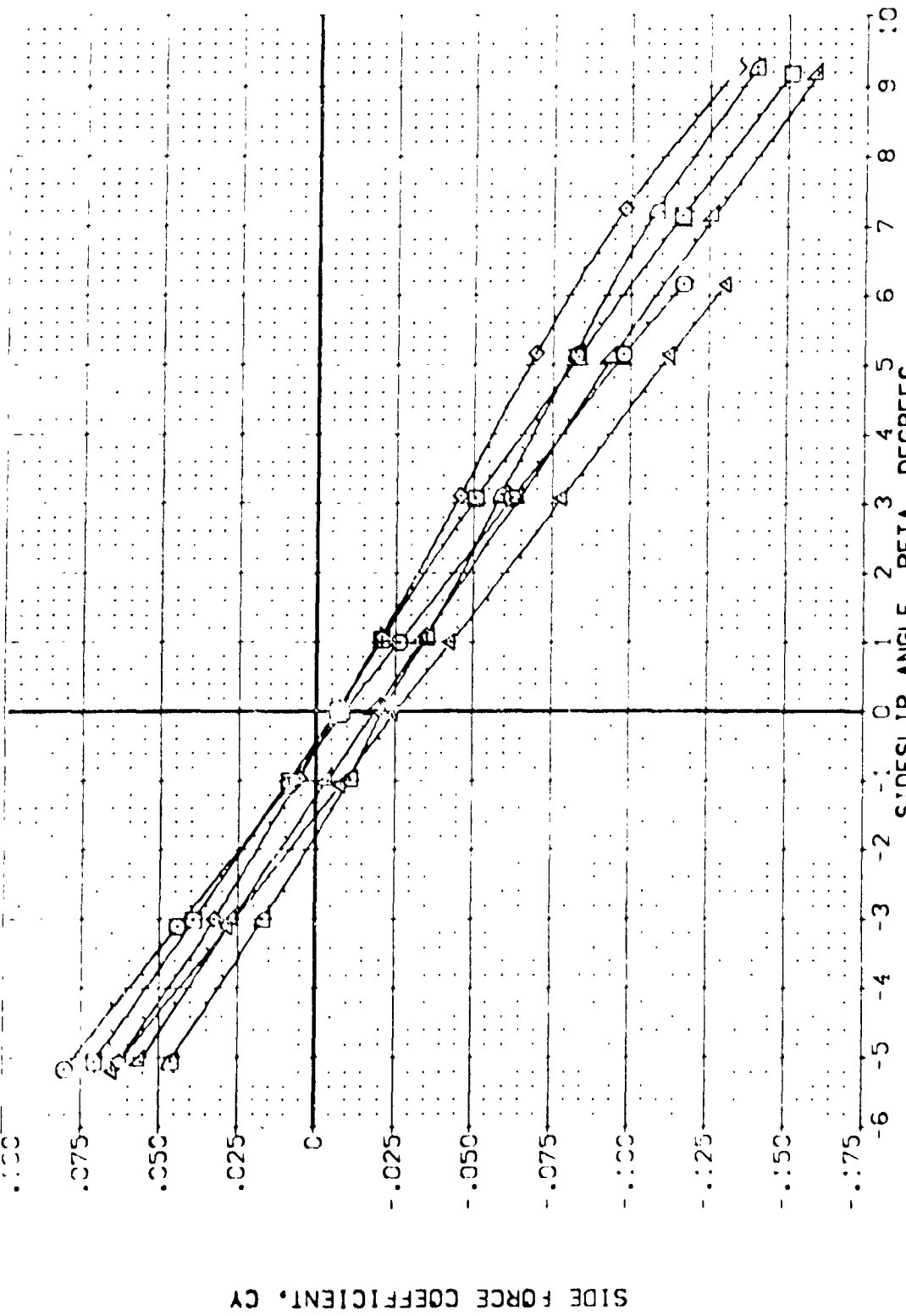


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

CALMACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON.	RV/L	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE	US OPMA TON
[AEPC028]	ARC 97-747 CAS38 B C M F V	V	RV/L	0.000	-10.000	-11.700	55.000	SREF	2.4210
[AEPC030]	ARC 97-747 CAS38 B C M F V	V	RV/L	10.000	-10.000	-11.700	55.000	LREF	14.2440
[AEPC031]	ARC 97-747 CAS38 B C M F V	V	RV/L	20.000	-10.000	-11.700	55.000	BREF	28.1000
[AEPC032]	ARC 97-747 CAS38 B C M F V	V	RV/L	0.000	-25.000	-11.700	55.000	XMRD	37.3010
[AEPC033]	ARC 97-747 CAS38 B C M F V	V	RV/L	10.000	-25.000	-11.700	55.000	YMRD	46.5020
[AEPC034]	ARC 97-747 CAS38 B C M F V	V	RV/L	20.000	-25.000	-11.700	55.000	ZMRD	55.7030

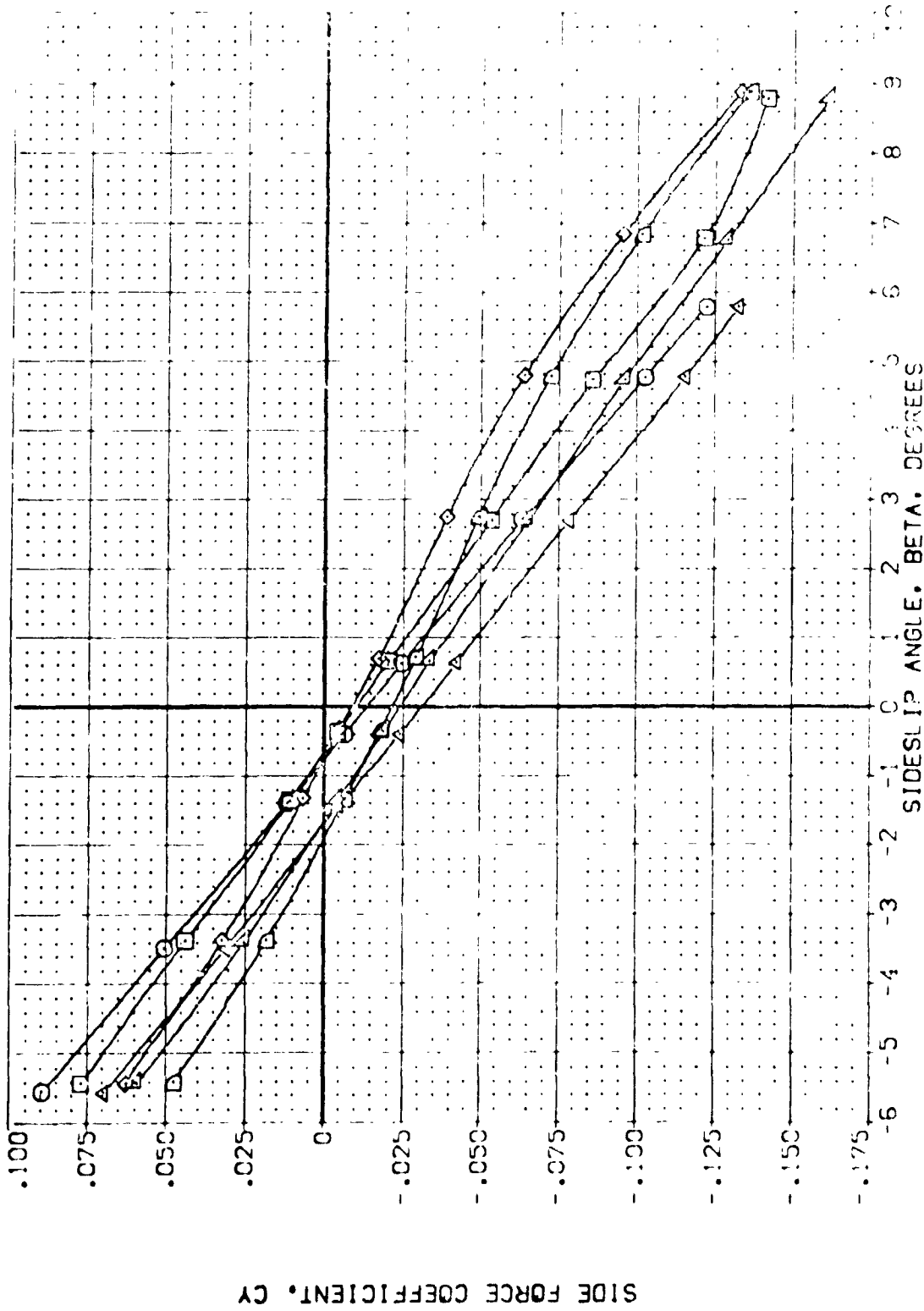


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(8)MACH = 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON-R/V/L	ALPHA	RUDDER	BOFLAP	SPEED	REFERENCE INFORMATION
(1) ABC 87-74	24538 B C M F V	NON-R/V/L	.000	-10.000	-11.700	55.000	SREF 2.4210
(2) ABC 87-74	24538 B C M F V	NON-R/V/L	10.000	-10.000	-11.700	55.000	LREF 14.2440
(3) ABC 87-74	24538 B C M F V	NON-R/V/L	20.000	-10.000	-11.700	55.000	BREF 28.1004
(4) ABC 87-74	24538 B C M F V	NON-R/V/L	10.000	-25.000	-11.700	55.000	XREF 32.3010
(5) ABC 87-74	24538 B C M F V	NON-R/V/L	10.000	-25.000	-11.700	55.000	YREF 30.0000
(6) ABC 87-74	24538 B C M F V	NON-R/V/L	20.000	-25.000	-11.700	55.000	ZREF 11.2500
							SCALE 1.0000

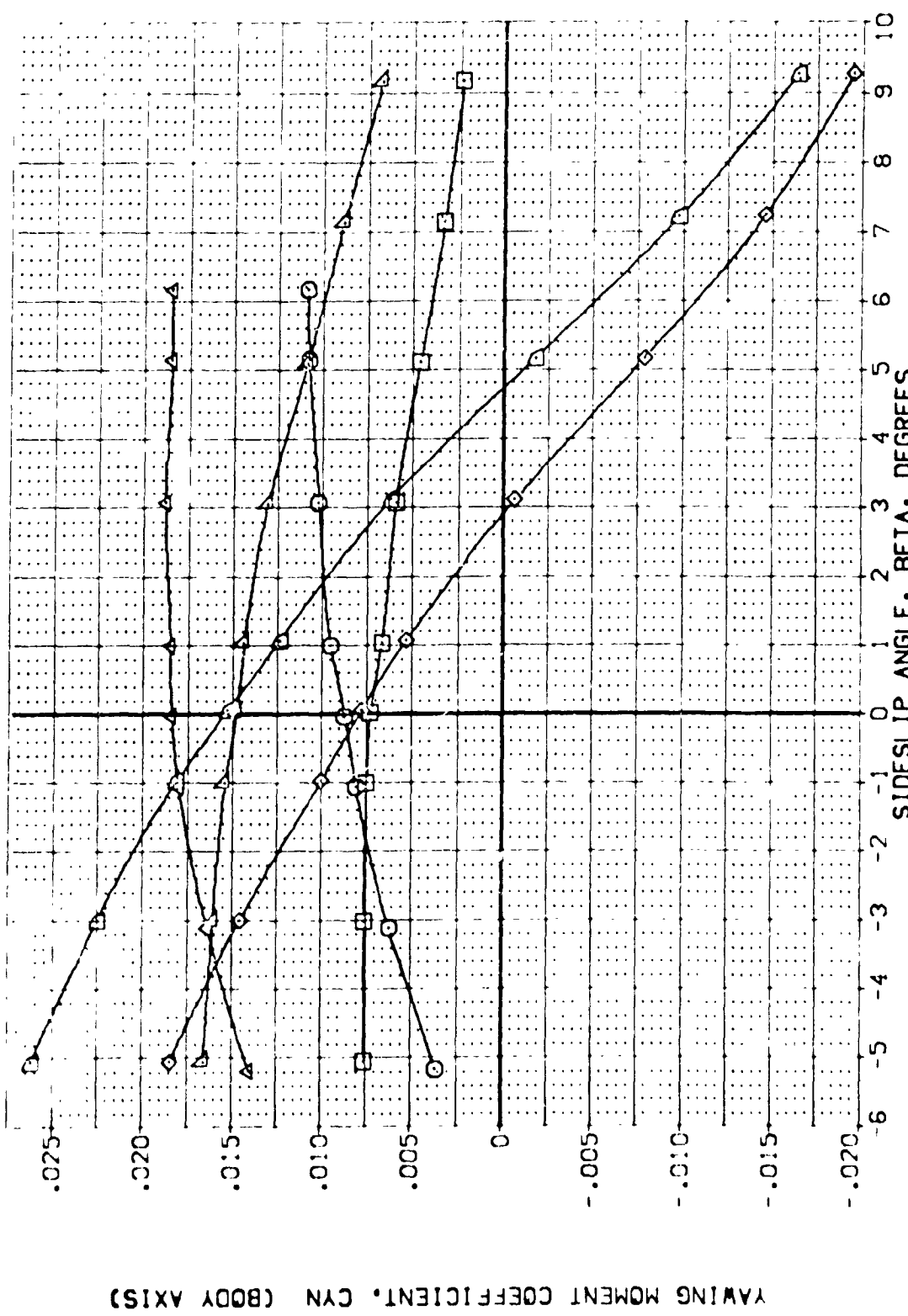


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

[AEK028]	ARC 97-747 CA538 B C M F V I	SPEED	2.4216
[AEK030]	ARC 97-747 CA538 B C M F V I	LORE	14.7410
[AEK031]	ARC 97-747 CA538 B C M F V I	SRAS	28.1100
[AEK032]	ARC 97-747 CA538 B C M F V I	YMRB	37.3010
[AEK033]	ARC 97-747 CA538 B C M F V I	YMRB	37.3010
[AEK034]	ARC 97-747 CA538 B C M F V I	YMRB	37.3010

ALPHA .000
 10.000
 20.000
 10.000
 20.000

RUDDER -10.000
 -10.000
 -10.000
 -20.000
 -20.000

BOE LAP -11.700
 -11.700
 -11.700
 -11.700
 -11.700

SPEEDBRK 55.000
 55.000
 55.000
 55.000
 55.000

SCALE 11.0300
 11.0300
 11.0300
 11.0300
 11.0300

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

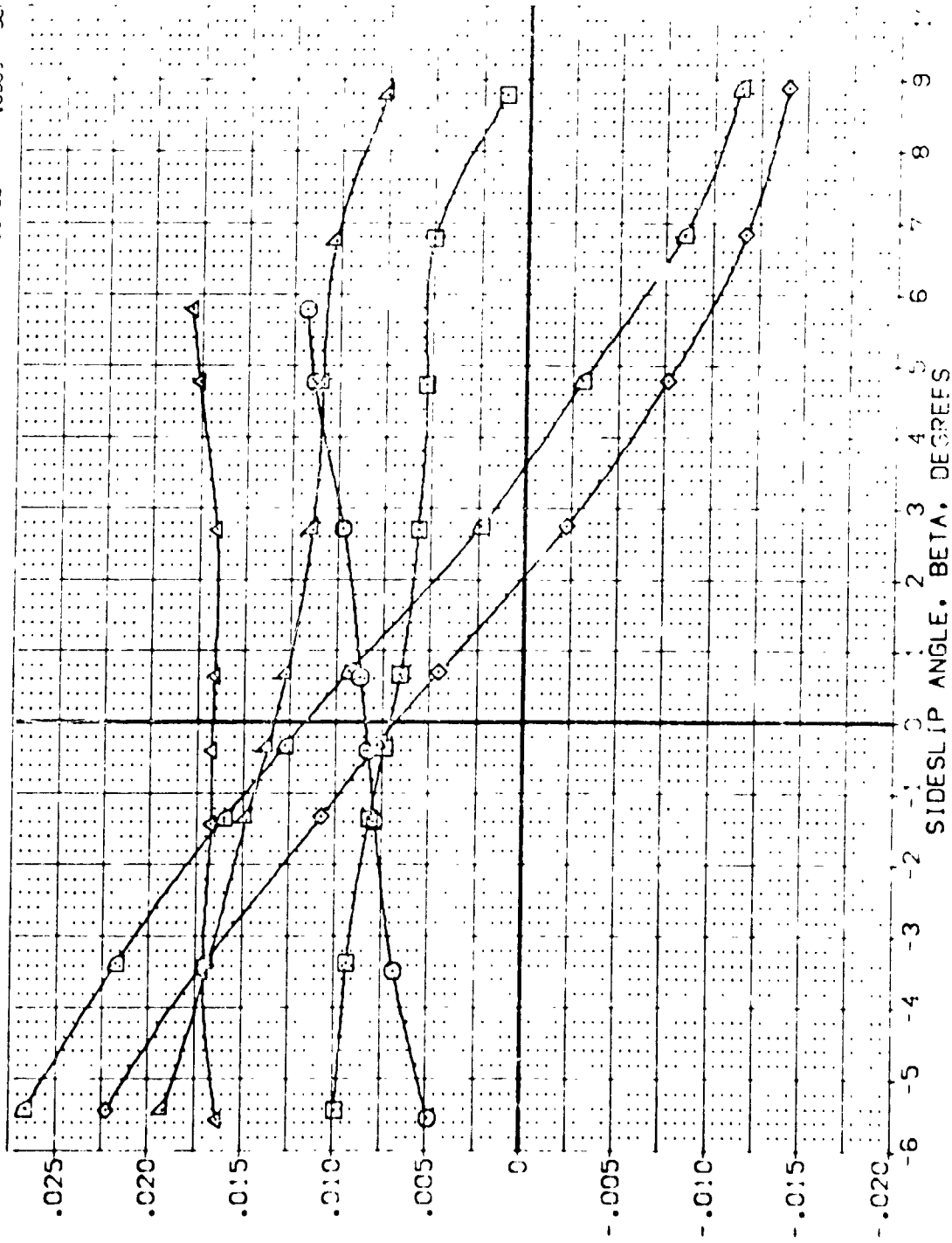


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(B)YAC = 2.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBK	REFERENCE INFORMATION
[ALP029]	()	ALP 029 047 04538 B C M F V	000	-10.000	-.700	55.000	SREF 2.4210 SCLET.
[ALP030]	()	ALP 030 047 04536 B C M F V	10.000	-10.000	-.700	55.000	SPRE 14.0440
[ALP031]	()	ALP 031 047 04536 B C M F V	20.000	-10.000	-.700	55.000	SPRE 28.0000
[ALP032]	()	ALP 032 047 04536 B C M F V	10.000	-25.000	-.700	55.000	SPRE 32.0000
[ALP033]	()	ALP 033 047 04536 B C M F V	10.000	-25.000	-.700	55.000	SPRE 32.0000
[ALP034]	()	ALP 034 047 04536 B C M F V	20.000	-25.000	-.700	55.000	SPRE 32.0000

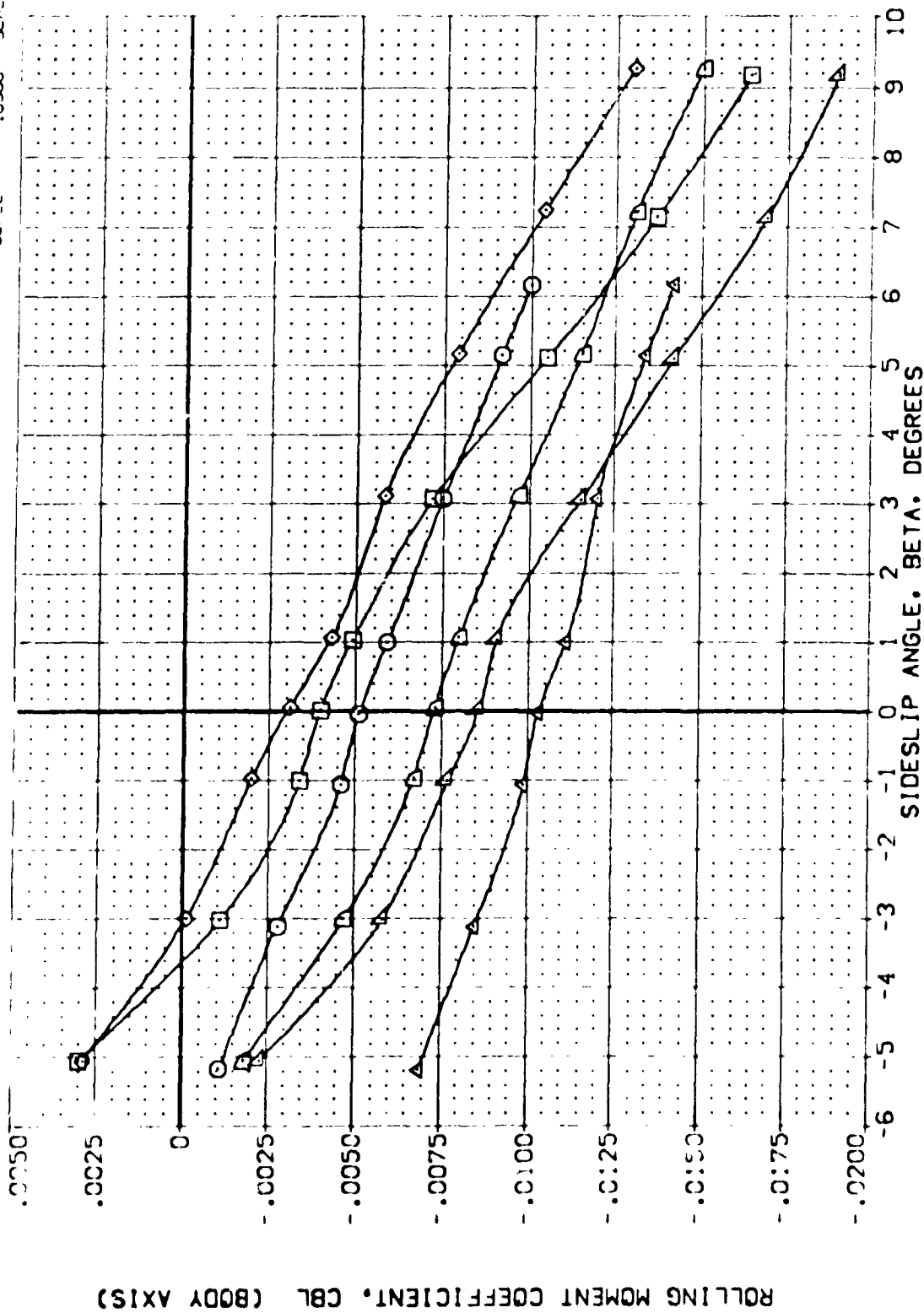
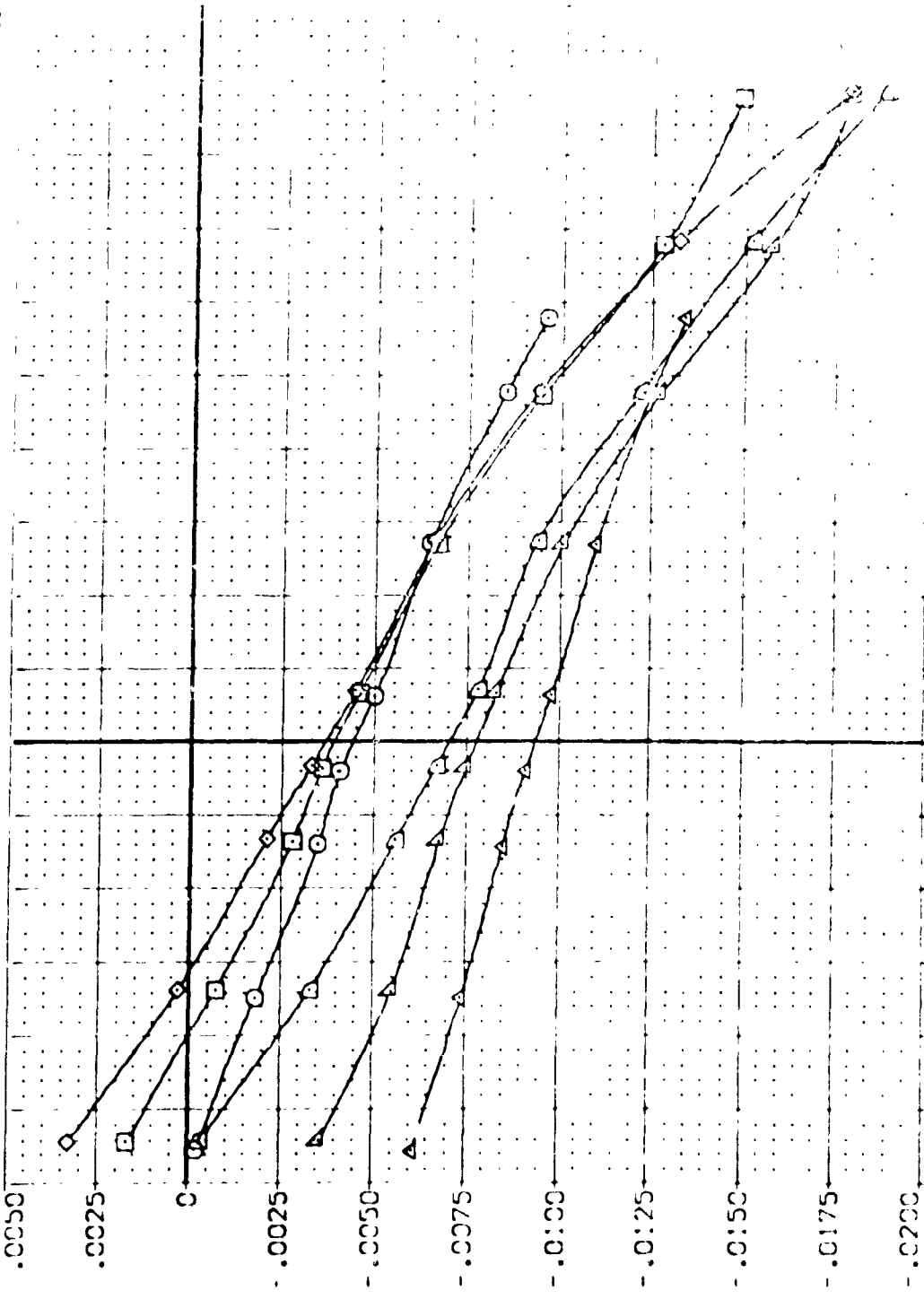


FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

(A) MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	80% LAP	SPEED	REFERENCE
ARC 97-747	0A538 B C M F V	0.000	10.000	11.700	55.000	2.4210
ARC 97-747	0A538 B C M F V	10.000	10.000	11.700	55.000	14.2410
ARC 97-747	0A538 B C M F V	20.000	10.000	11.700	55.000	28.1100
ARC 97-747	0A538 B C M F V	10.000	20.000	11.700	55.000	37.3010
ARC 97-747	0A538 B C M F V	20.000	20.000	11.700	55.000	44.0000



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

SIDESLIP ANGLE, BETA, DEGREES

FIG. 20 RUDDER EFFECTS, SPEEDBRAKE 55 DEGREES

CBMAC = 2.00



DATA SET SYMBOL: ()
 (AEK046)
 (ALP047)
 (AE-048)

CONFIGURATION DESCRIPTION	NON:	RN/L
ARC 97-747 C-538 B C M F V	V	RN/L
ARC 97-747 C-538 B C M F M	V	RN/L
ARC 97-747 C-538 B C M F V	V	RN/L

ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
.000	-10.000	-11.700	85.000	SREF 2.4210
10.000	-10.000	-11.700	85.000	LREF 14.2440
20.000	-10.000	-11.700	85.000	BREF 28.1004
				XMPP .0000
				YMPP .0000
				ZMPP .0000
				SCALE 11.7500
				SCALE .0300

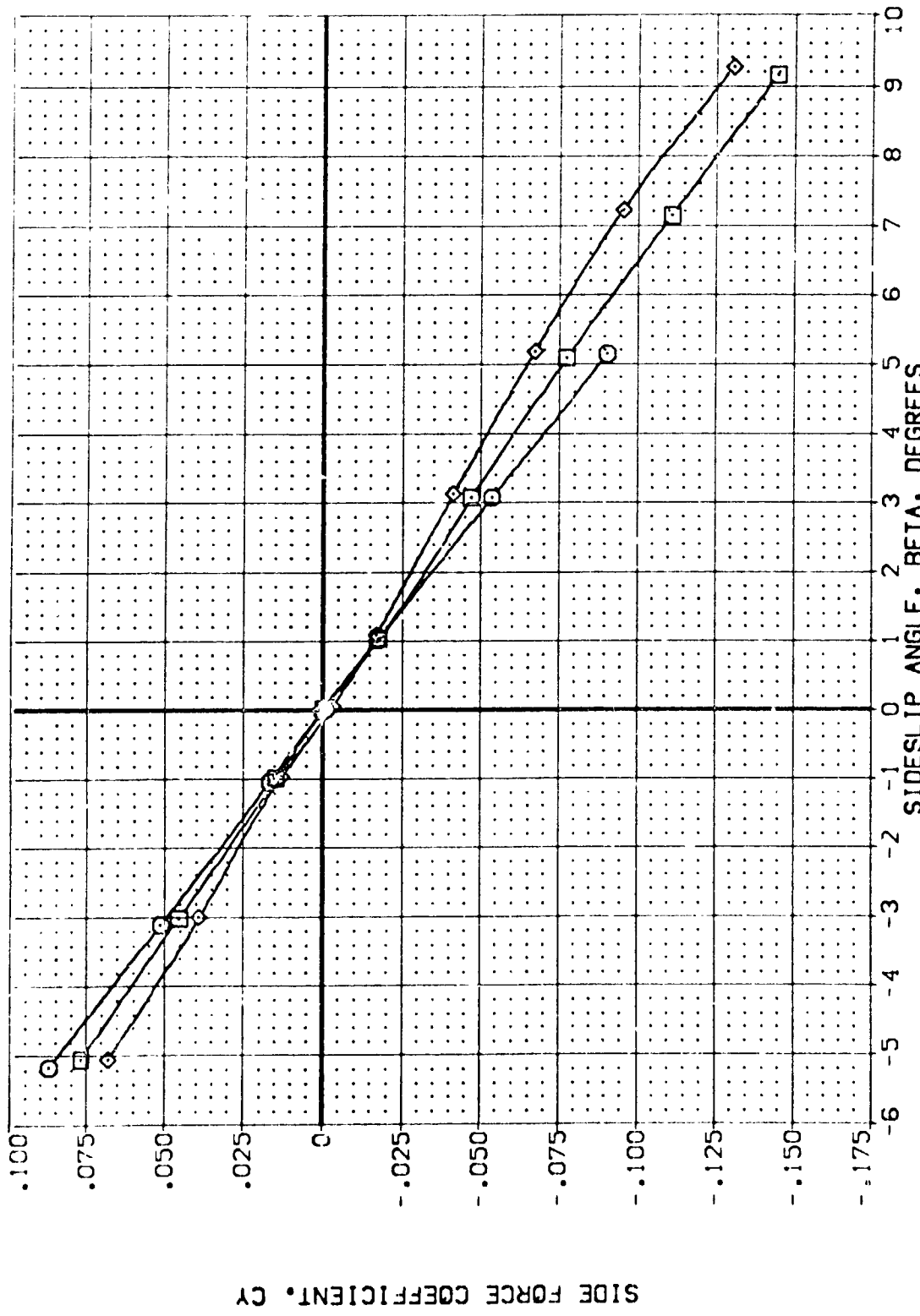


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOT	RV/L
(AEK046)	ARC 97-747 BA538 B C M F V	V	RV/L
(AEK047)	ARC 97-747 BA538 B C M F V	V	RV/L
(AEK048)	ARC 97-747 BA538 B C M F V	V	RV/L

ALPHA	RUDDER	SDFLAP	SPEEDBRK	REFERENCE INFORMATION
.000	-10.000	-11.700	85.000	SREF 2.4210
10.000	-10.000	-11.700	85.000	LREF 14.2440
20.000	-10.000	-11.700	85.000	BREF 28.1004
				XMRP 32.3010
				YMRP .0000
				ZMRP 11.2500
				SCALE .0000

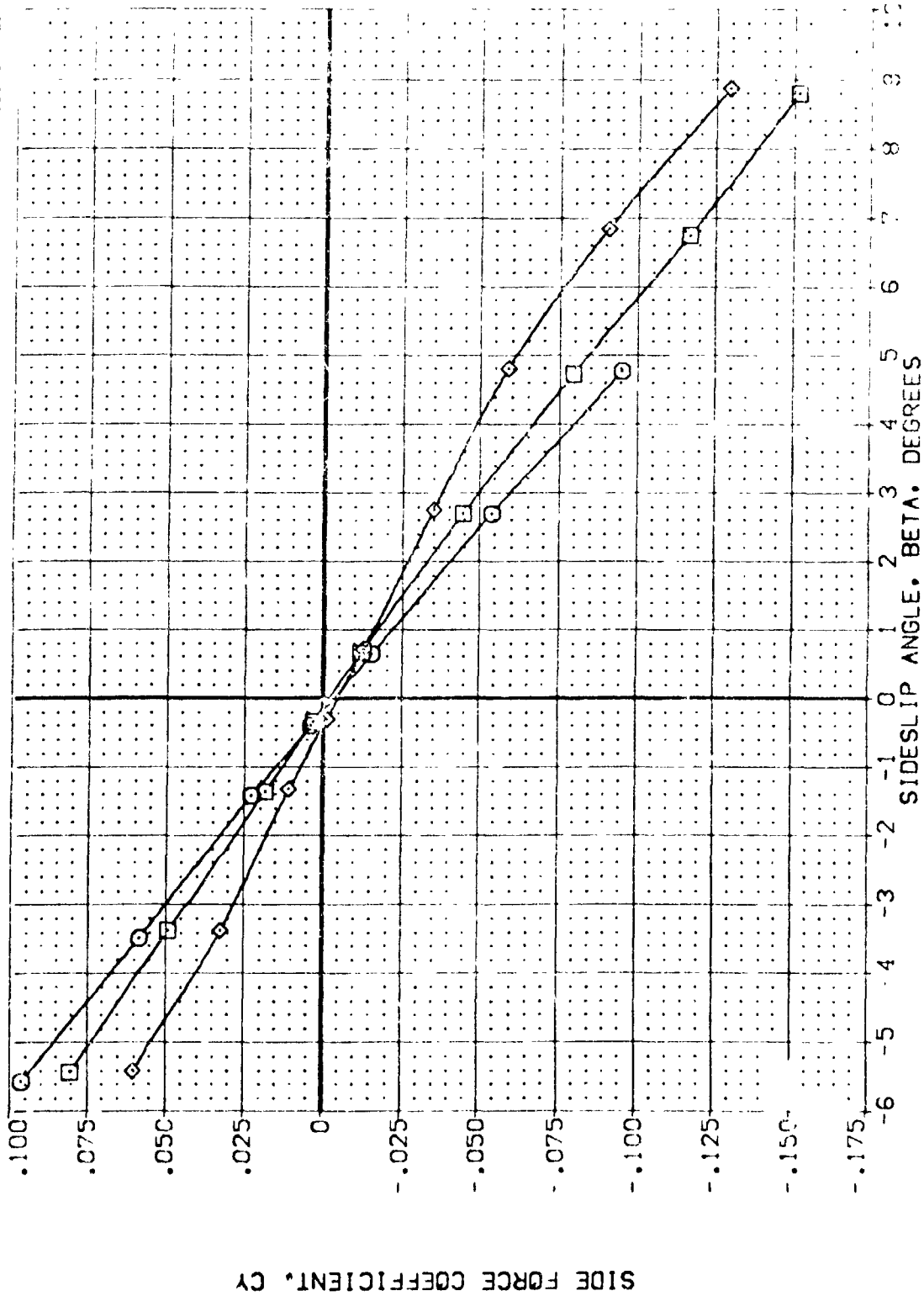


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

33MACH = 2.00



DATA SET SYMBOL COM-IGU-T-11 DESCRIPTION
 (AEP-246) C ARC 87-747 2A538 B C M F VI V
 (AEP-247) C ARC 87-747 0A538 B C M F VI V
 (AEP-248) C ARC 87-747 3A538 B C M F VI V

NON-RNVL
 NON-RNVL
 NON-RNVL

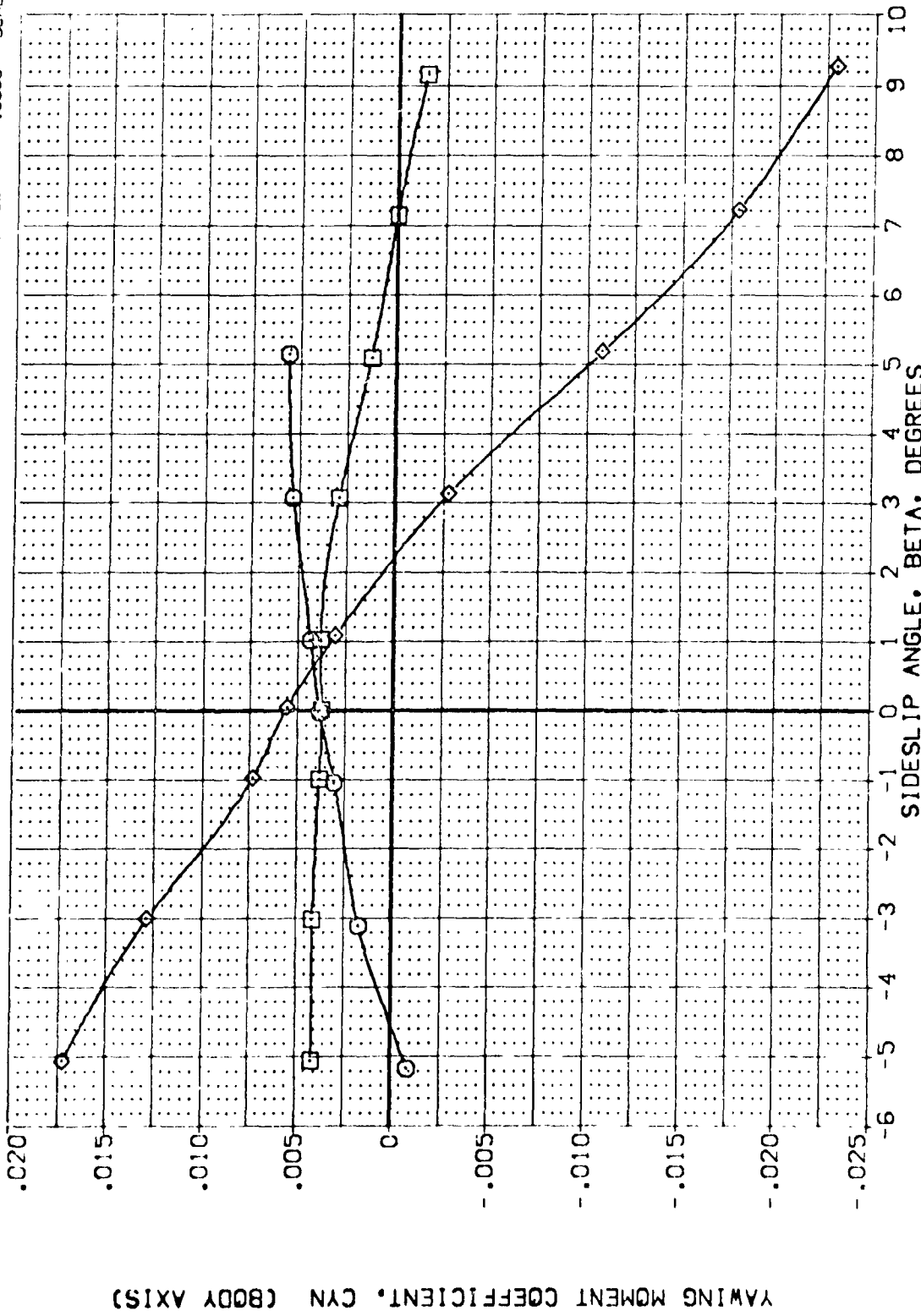
ALPHA .000
 10.000
 20.000

RUDDER -10.000
 -10.000
 -10.000

BOF LAP -11.700
 -11.700
 -11.700

SPOBRK 85.000
 85.000
 85.000

REFERENCE INFORMATION
 SPREF 2.4210 SQ.FT.
 LRREF 14.2440
 BRREF 28.1004
 XMRP 32.3019
 YMRP .0000
 ZMRP 11.7500
 SCALE .0300

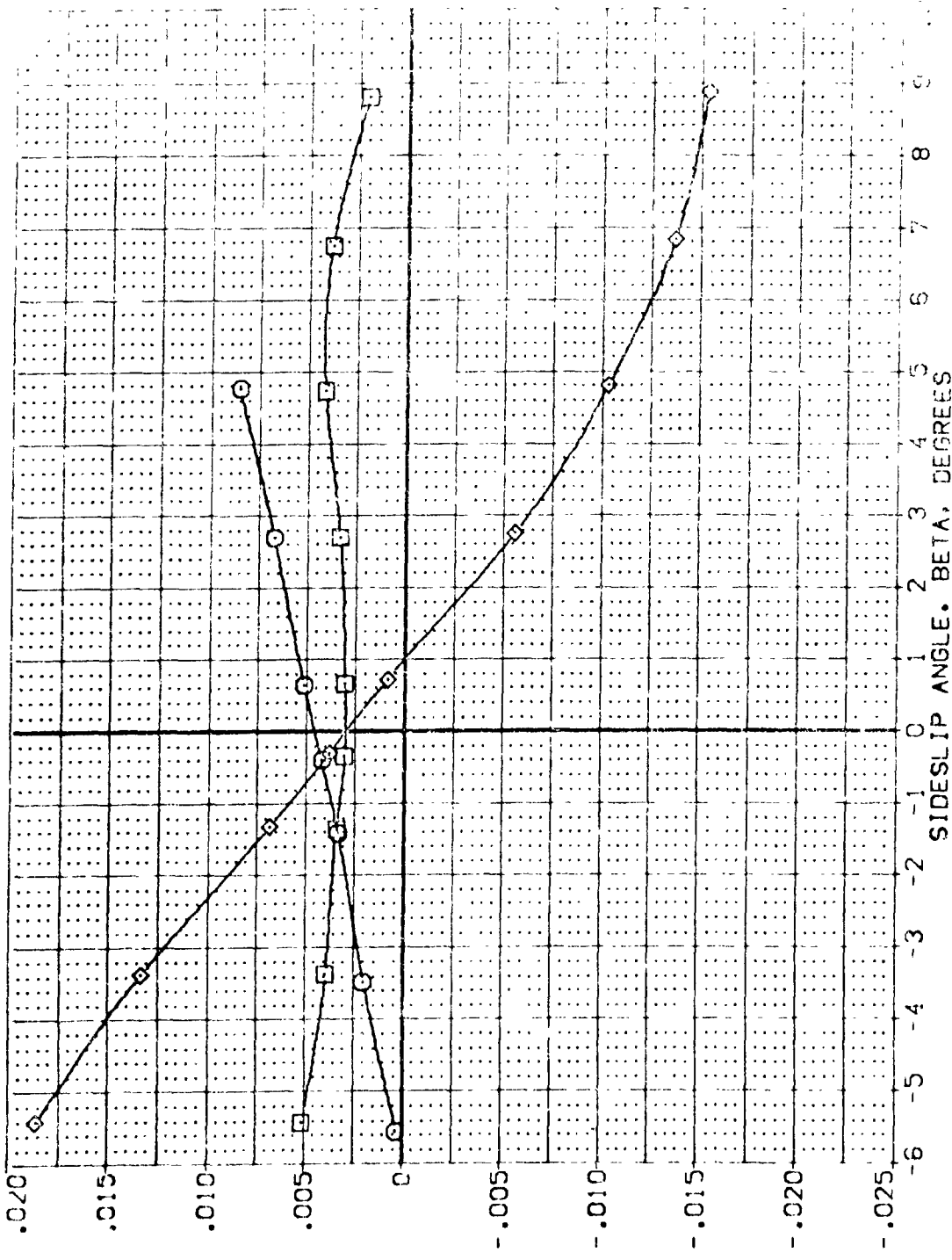


YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL: [AEK045] [AEK047] [AEK048]
 CONFIGURATION DESCRIPTION: ARC 97-747 GA538 B C M F V I V NOM. RNVL
 ARC 97-747 GA538 B C M F V I V NOM. RNVL
 ARC 97-747 GA538 B C M F V I V NOM. RNVL
 ALPHA: .000, 10.000, 20.000
 RUDDER: -10.000, -10.000, -10.000
 80% LAP: -11.700, -11.700, -11.700
 SPEEDBRK: 85.000, 85.000, 85.000
 REFERENCE: 2.42.0, 14.21.0, 26.11.0, 37.30.0
 SREF, LREF, DREF, YMRP, ZMRP, SCALE: 11.2500, 11.0300



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(B)MACH = 2.00



DATA SET 5-600 CONFIGURATION DESCRIPTION REFERENCE INFORMATION, IN

(AEP045)	ARC 57-747 D4538 B C M F V	V	NOM. RV/L	SPOBRK	SREF	2.4210	50. FT.
(AEP047)	ARC 57-747 D4538 B C M F V	V	NOM. RV/L	85.000	LREF	14.2440	
(AEP048)	ARC 57-747 D4538 B C M F V	V	NOM. RV/L	85.000	BREF	28.1004	
					XMRD	32.3010	
					YMRD	.0000	
					ZMRD	11.2500	
					SCALE	.0300	

ALPHA RUDDER BDELAP SPOBRK SREF 2.4210 50. FT.
 .000 -10.000 -11.700 85.000 LREF 14.2440
 10.000 -10.000 -11.700 85.000 BREF 28.1004
 20.000 -10.000 -11.700 85.000 XMRD 32.3010
 YMRD .0000
 ZMRD 11.2500
 SCALE .0300

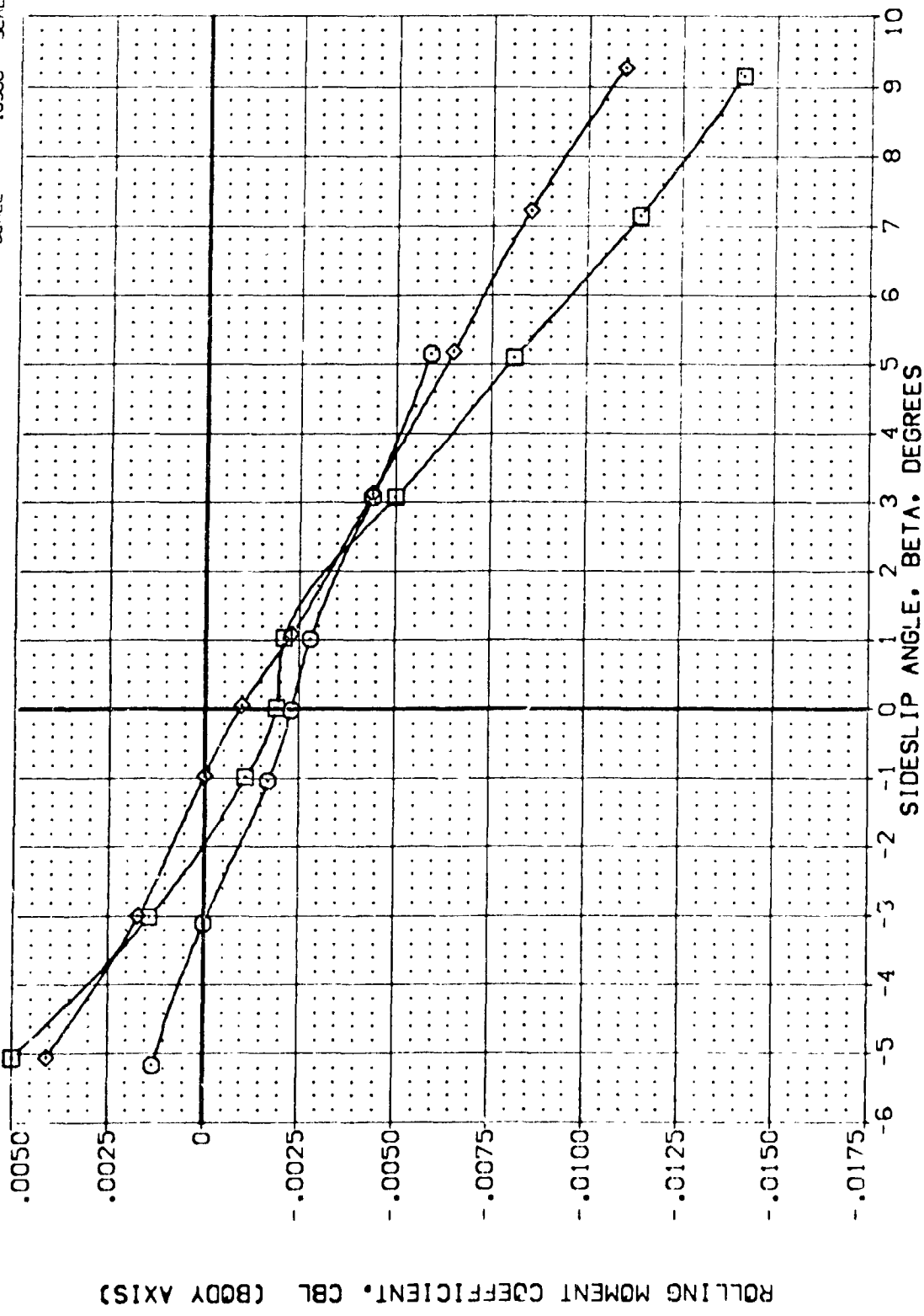


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(MACH = 1.60)

DATA SET SYMBOL: (AEK046) (AEK047) (AEK048)

CONFIGURATION DESCRIPTION:
 ARC 97-747 GAS38 B C M F V1 V
 ARC 97-747 GAS38 B C M F V1 V
 ARC 97-747 GAS38 B C M F V1 V

NOT: RV/L
 NOT: RV/L
 NOT: RV/L

ALPHA: .000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 85.000, 85.000, 85.000

REFERENCE INFORMATION:
 SREF: 2.4213
 LREF: 14.2443
 BREF: 28.1004
 XMRP: 32.15013
 YMRP: 10.000
 ZMRP: 11.2000
 SCALE: .0300

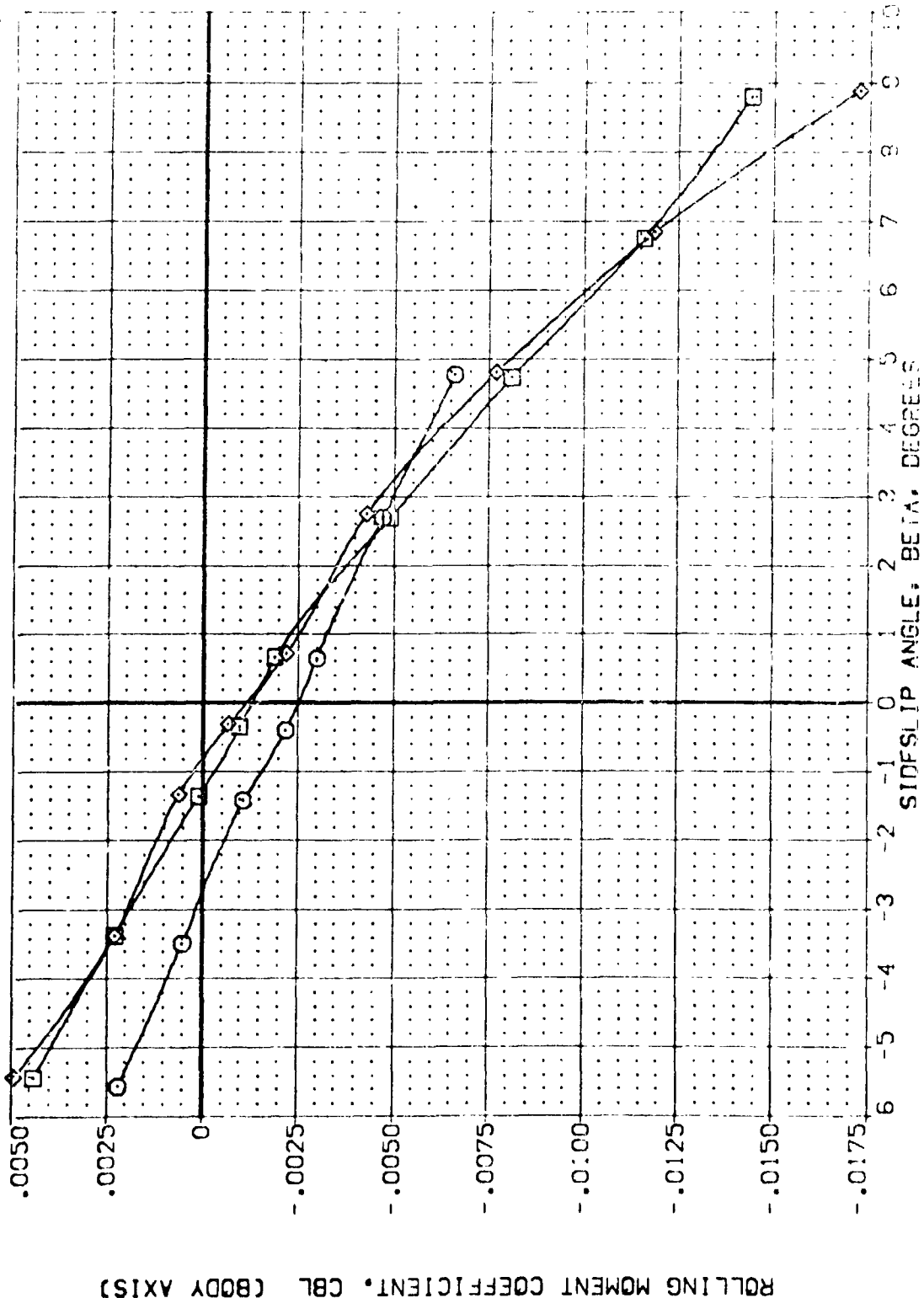


FIG. 21 RUDDER EFFECTS, SPEEDBRAKE 85 DEGREES

(B)MACH = 2.00

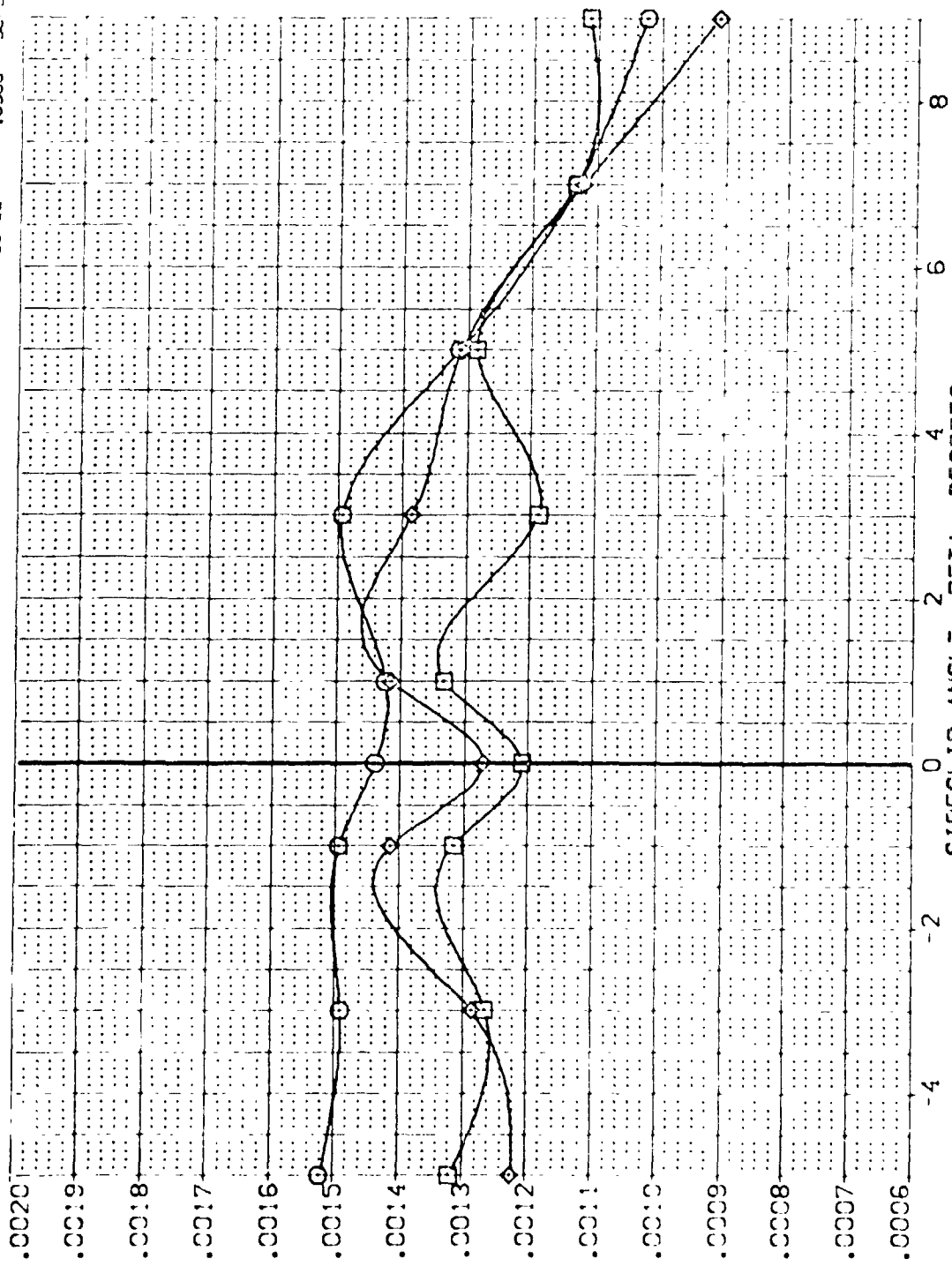


DATA SET CONTROL CONFIGURATION DESCRIPTION
 (VEP035) AIC 97-747 CAS38 B C M F V I
 (VEP036) AIC 97-747 CAS38 B C M F V I
 (VEP037) AIC 97-747 CAS38 B C M F V I

NON. BNVL
 NON. BNVL
 NON. BNVL

ALPHA DR BDF LAP SPOBRK
 10.000 -10.000 -1.700 25.000
 20.000 -10.000 -1.700 25.000
 30.000 -10.000 -1.700 25.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BRFF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300



SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

SIDESLIP ANGLE, BETA, DEGREES

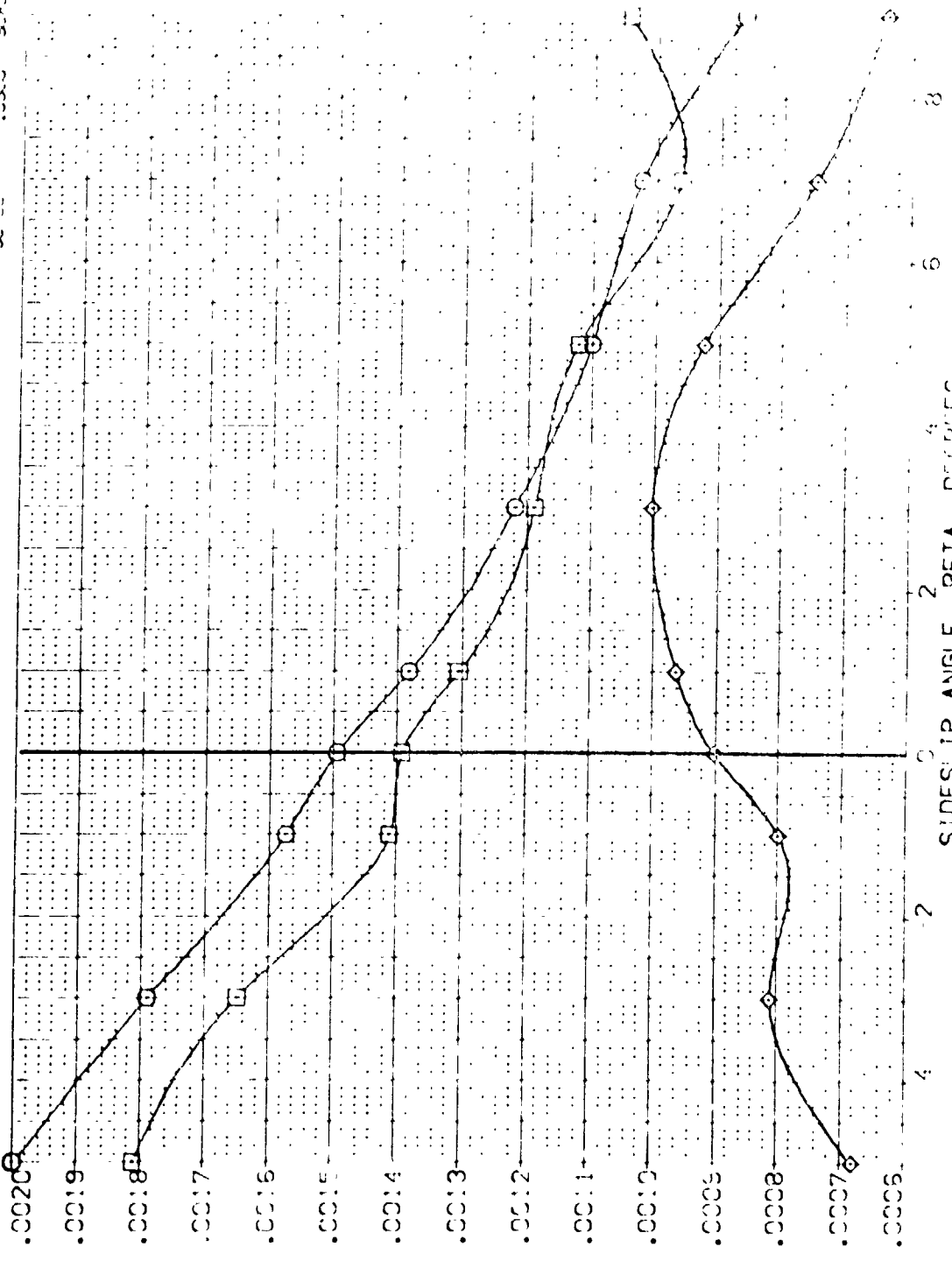
FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(A) MAC = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP036) ARC 97-747 D4S38 B C M F V V NOM: RWL
 (VEP036) ARC 97-747 D4S38 B C M F V V NOM: RWL
 (VEP037) ARC 97-747 D4S38 B C M F V V NOM: RWL

ALPHA DR BOFLAP SPOBRK
 .000 -10.000 -11.700 25.000
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE 11-F-39MATIC
 SREF 21.4210 SCREF
 LREF 14.7440 SCREF
 SREF 28.1000 SCREF
 32.3000 SCREF
 7000 7000
 11.7000 11.7000
 SCALE SCALE



SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

SIDESLIP ANGLE, BETA, DEGREES

FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(B)747... 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1) 97-747 2538 B C M F Y V
 (2) 97-747 2538 B C M F Y V
 (3) 97-747 2538 B C M F Y V

ALPHA DR BDF AP SPOBRV
 000 -10.000 -11.700 75.000
 10.000 -10.000 -11.700 75.000
 20.000 -10.000 -11.700 75.000

REFERENCE INFORMATION
 SREF 2.4210 SCALE
 BRFF 14.2440 SCALE
 AMDD 28.1000 SCALE
 VMDD 32.3000 SCALE
 ZMDD 0.0000 SCALE
 SCALE 11.7000 SCALE

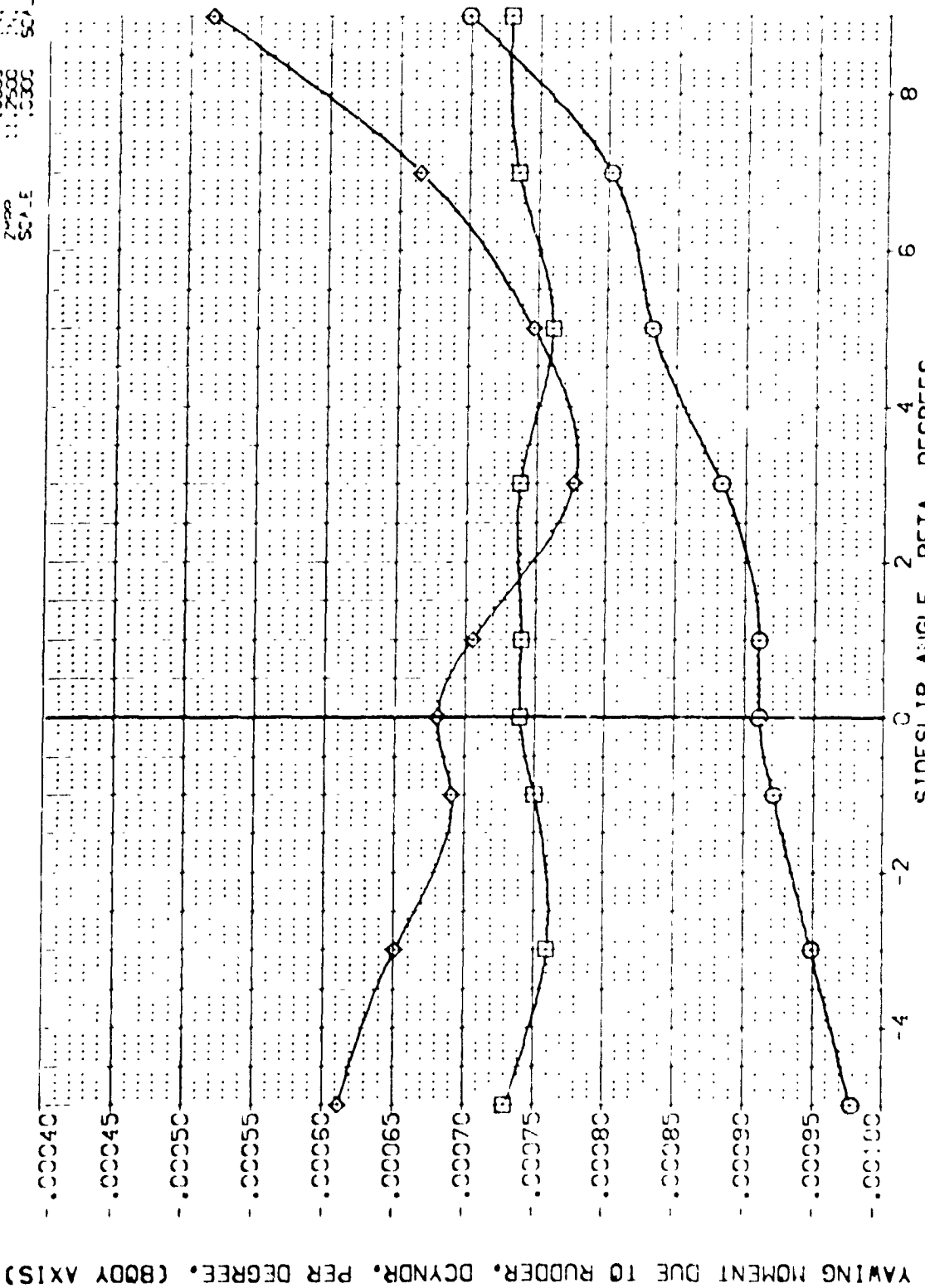


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

CADWACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VEP026)	ARC 97-747 0A538 B C M F VI V	SREF	2.4210	SCALE	10.000
(VEP036)	ARC 97-747 0A538 B C M F VI V	LPREF	14.2440	SCALE	25.000
(VEP037)	ARC 97-747 0A538 B C M F VI V	BPREF	28.1000	SCALE	25.000
		YMREF	32.3010	SCALE	25.000
		ZMREF	11.7000	SCALE	10.000

ALPHA DR SPOBRK

10.000	-10.000	25.000
20.000	-10.000	25.000
	-11.700	25.000
	-11.700	25.000

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

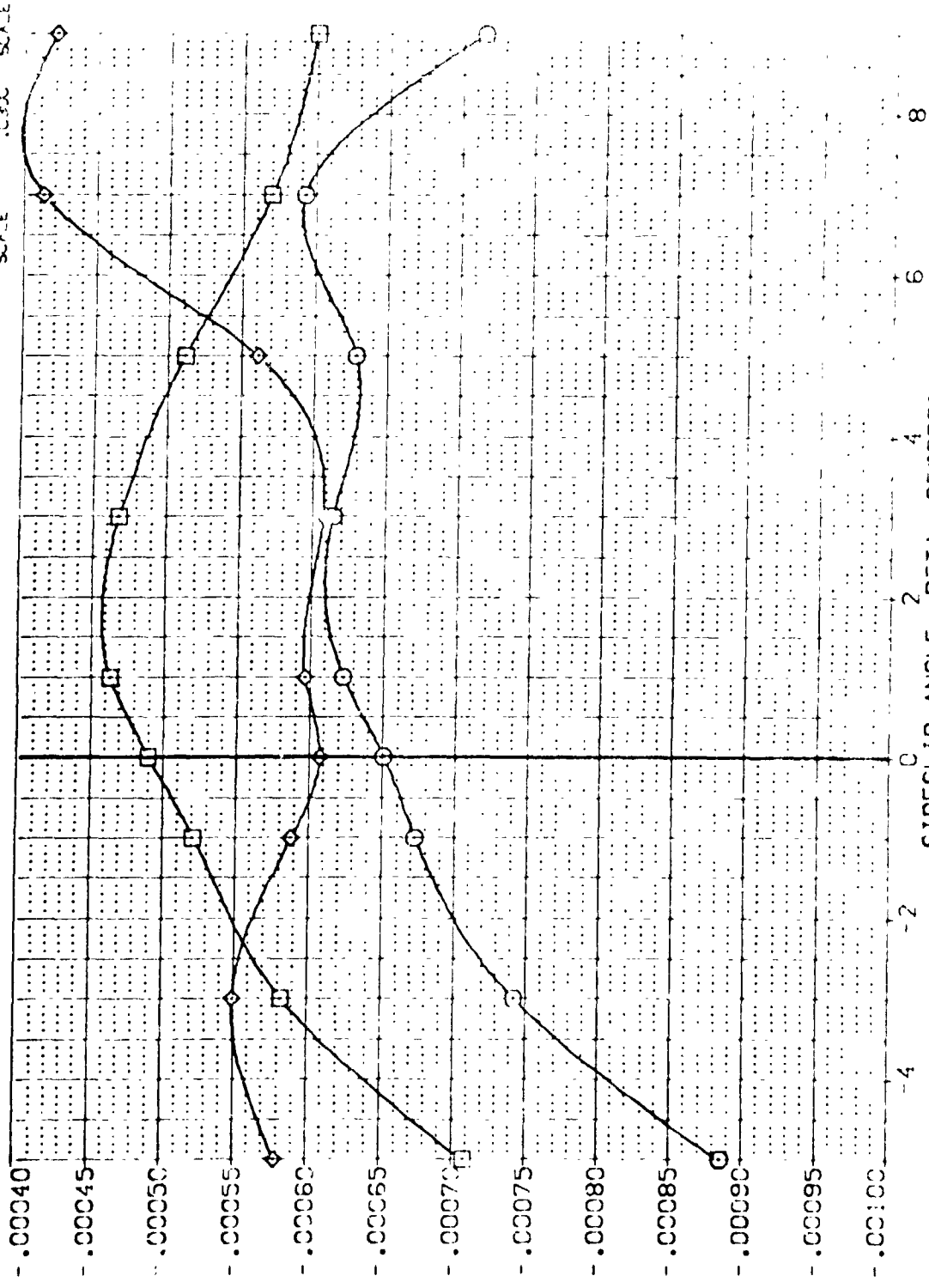


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(B)MAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VEP035) ○ ARC 97-547 CAS38 B C M F V I V NDY: RNVL
 (VEP036) □ ARC 97-547 CAS38 B C M F V I V NDY: RNVL
 (VEP037) ◇ ARC 97-547 CAS38 B C M F V I V NDY: RNVL

ALPHA DR BOFLAP SPEEDY
 .000 -10.000 -11.700 25.000
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SPREF 2.4210 SQ.FT.
 .REF 14.2440
 .SPREF 28.000
 XMRD 32.3010
 YMRD 11.2500
 ZMRD 11.2500
 SCALE .0300

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

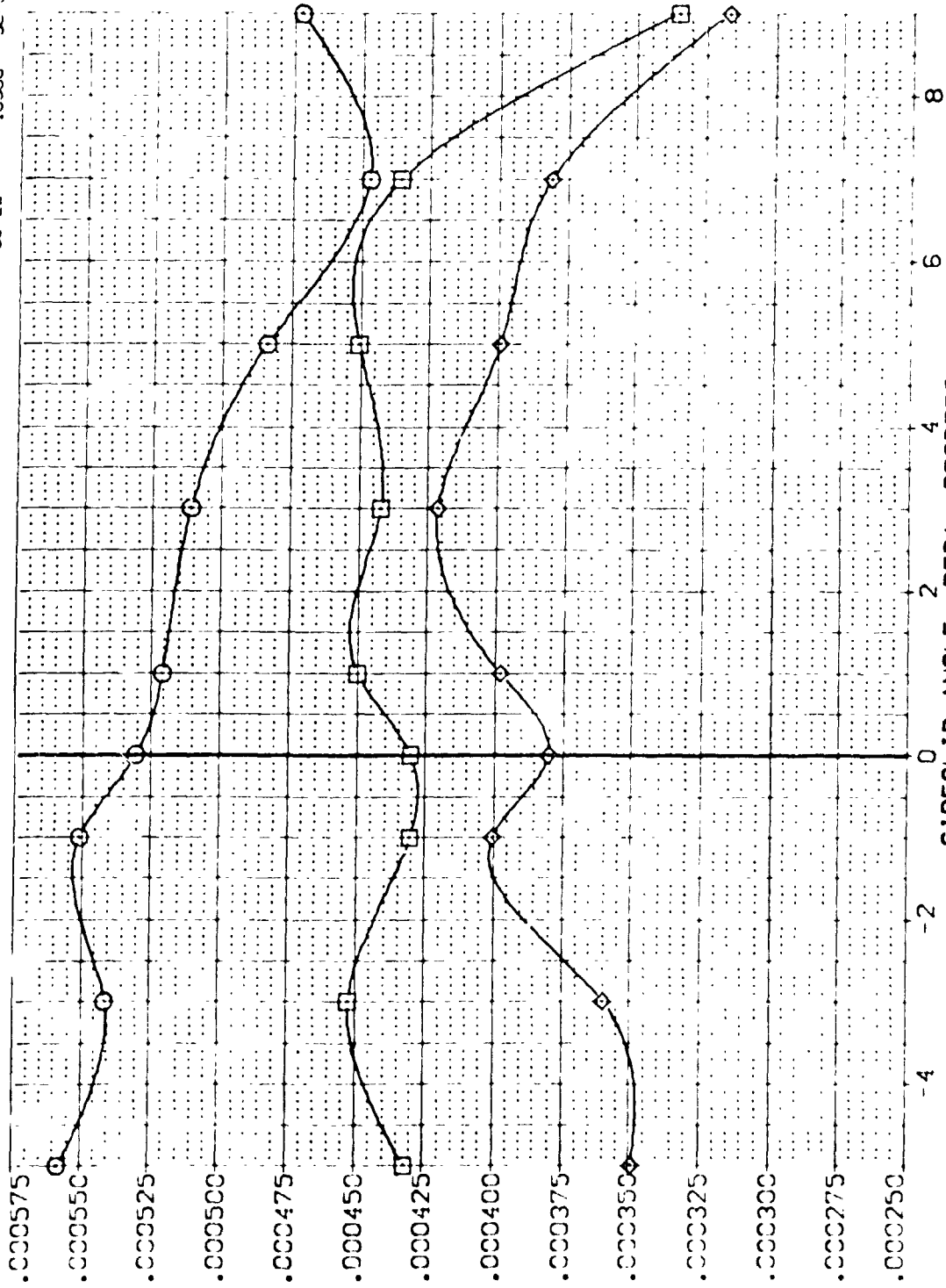


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

CADMAC 1.60

DATA SET SYMBOL: (VEK035) (VEK036) (VEK037)

CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C H F VI V (VEK035) ARC 97-747 GAS38 B C H F VI V (VEK036) ARC 97-747 GAS38 B C H F VI V (VEK037)

ALPHA: 0.000, 10.000, 20.000

DR: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF: 2.4710, LREF: 14.2445, BREF: 28.1004, XMRD: 30.3000, YMRD: 10.0000, ZMRD: 11.2500, SCALE: 10.0000

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

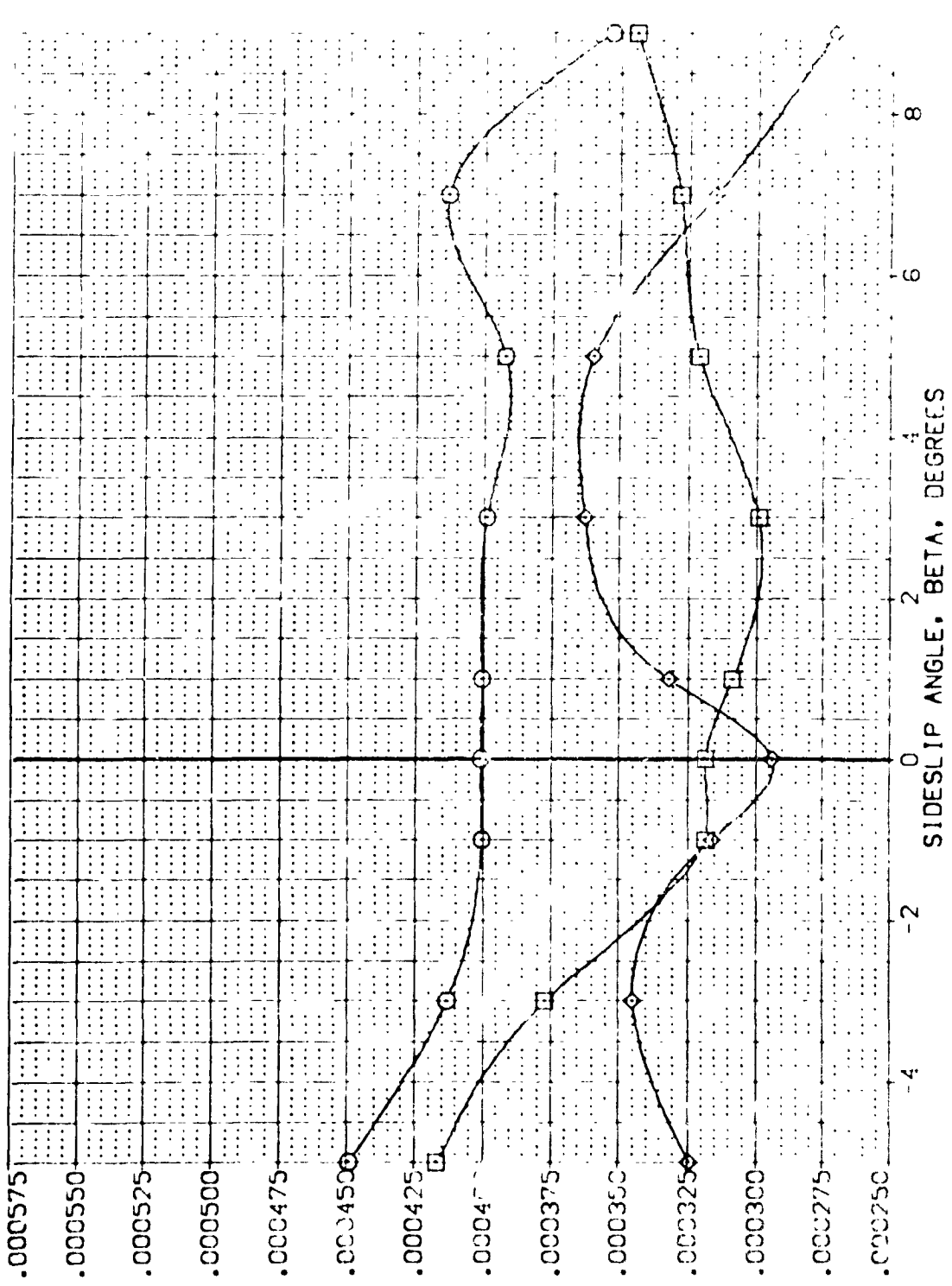


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(3) MACH = 2.00



DATA SYMBOL	COEFFICIENT	DESCRIPTION	ALPHA	DR	BOFLAP	SPOBRK	REFERENCE INFORMATION
APC	741	24038 B C E V1 V	0.000	-10.000	-11.700	25.000	SREF 2.4210
APC	742	24038 B C E V2 V	10.000	-10.000	-11.700	25.000	LREF 14.2440
APC	743	24038 B C E V3 V	20.000	-10.000	-11.700	25.000	BREF 28.1004
APC	744	24038 B C E V4 V					YMRD 1.0000
							ZMRD 11.2000
							SCALE 10.000

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEF., DCLMR, PER DEG

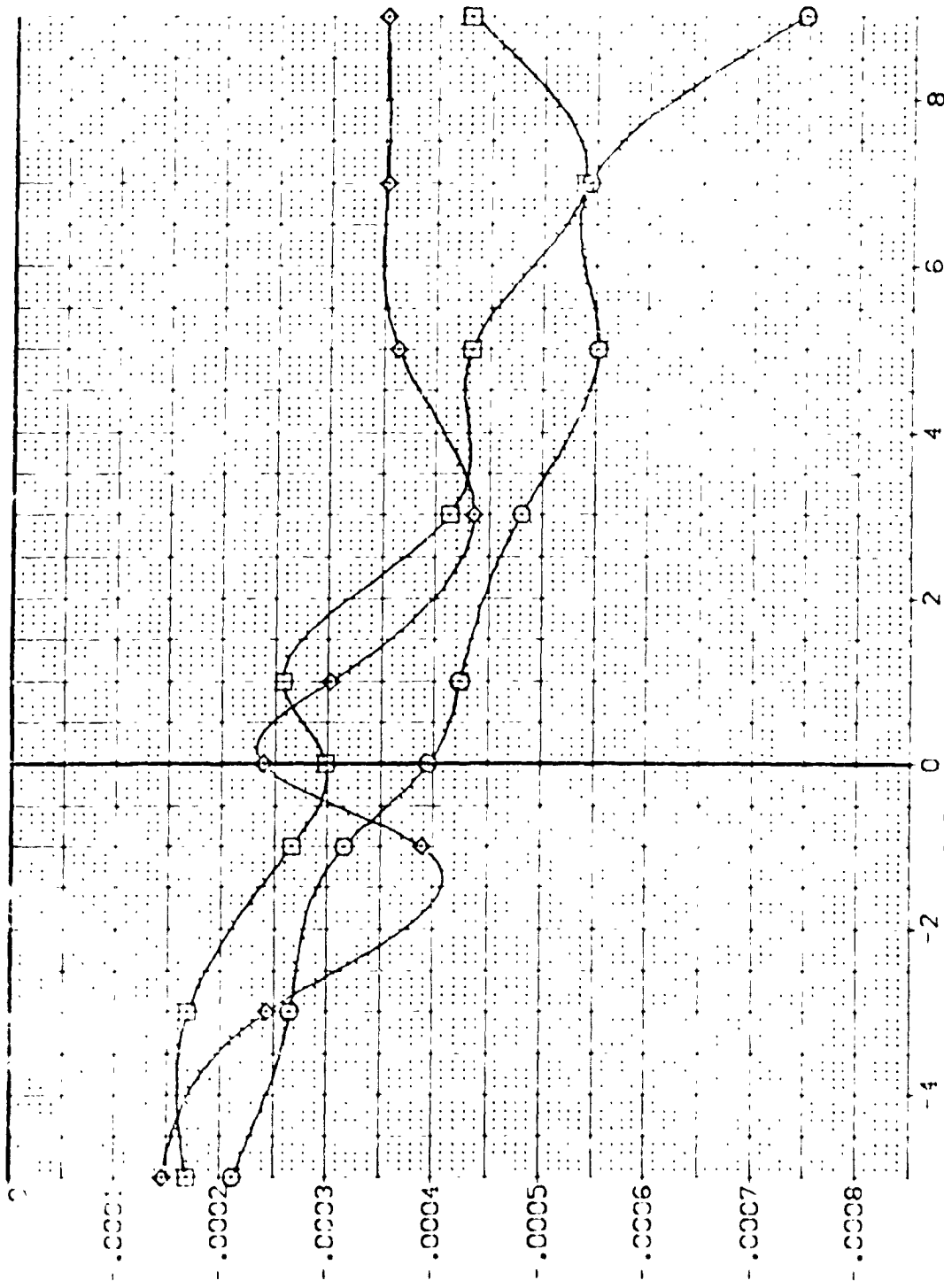


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VE-035) □ ARC 97-747 DAS38 B C M F V V V
 (VE-036) ○ ARC 97-747 DAS38 B C M F V V V
 (VE-037) ◇ ARC 97-747 DAS38 B C M F V V V

ALPHA DR BDF LAP SPOBRK
 10.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000
 20.000 -10.000 -11.700 25.000

REFERENCE INFORMATION
 SREF 2.4210
 REF 14.2440
 SP-1 28.1000
 VMPP 37.3000
 VMDO 10000
 VMDO 10000
 SCALE 10000

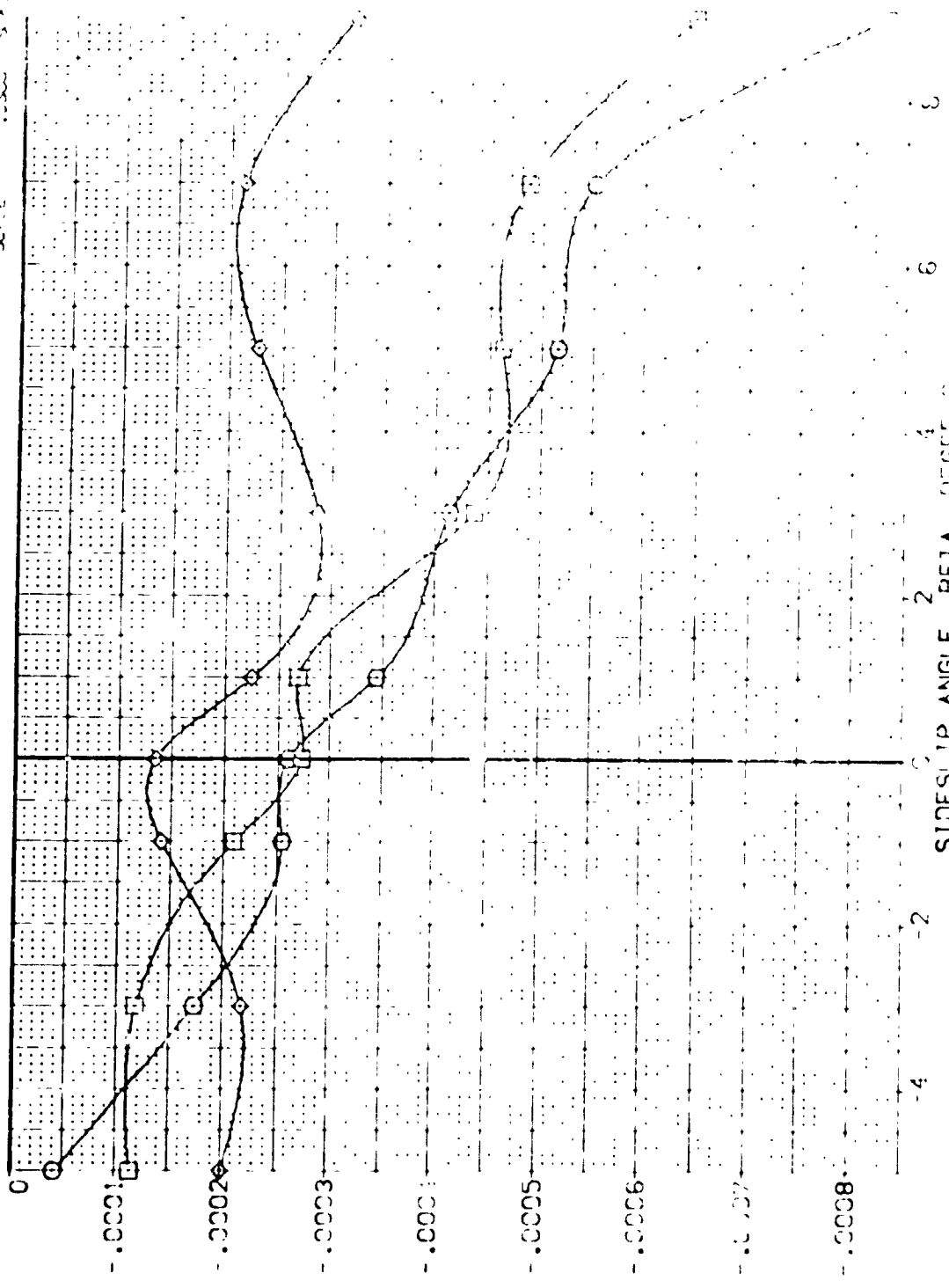
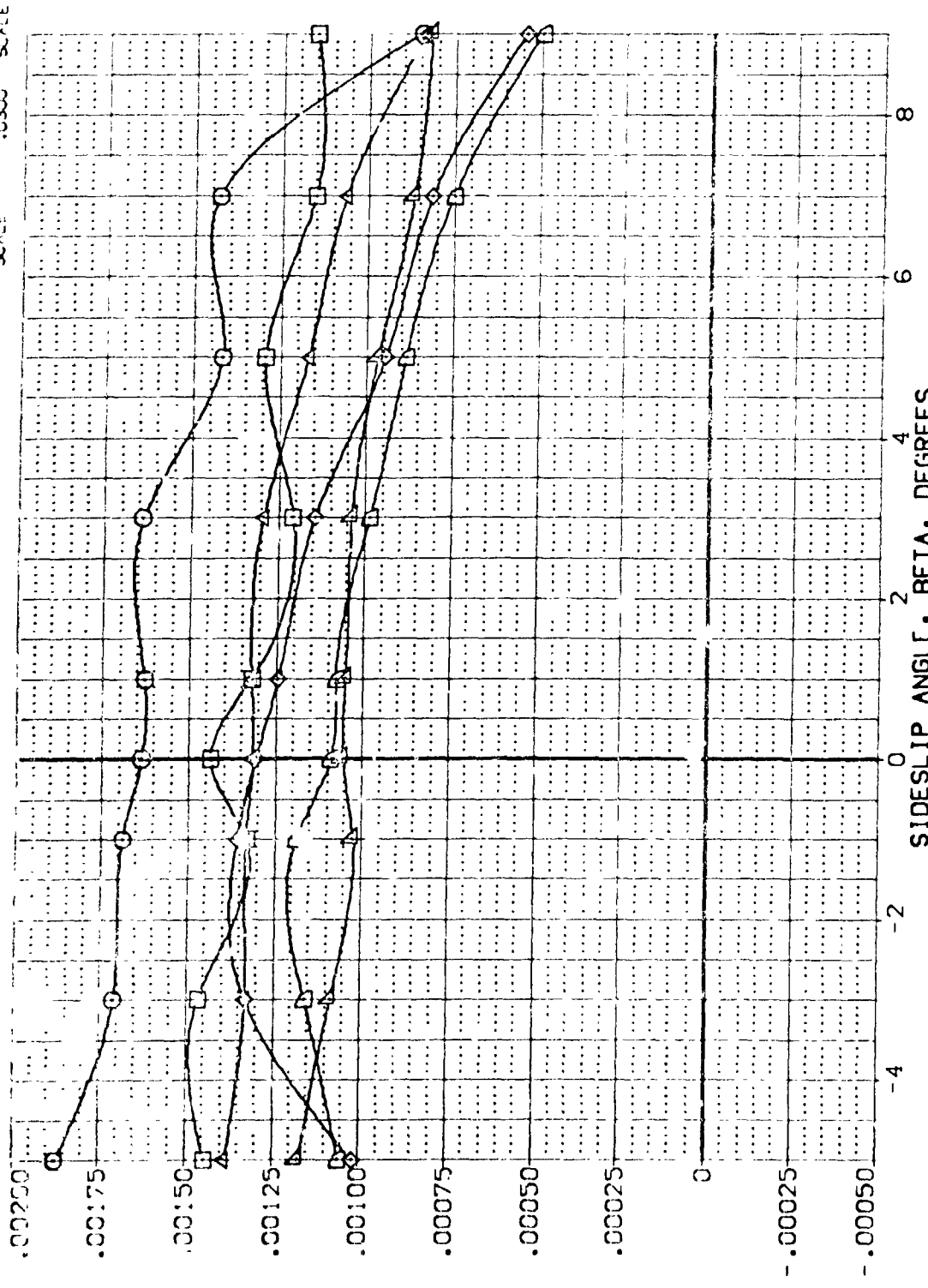


FIG. 22 RUDDER DERIVATIVES, SPEEDBRAKE 25 DEGREES

(B) MAG. : 2.00



DATA SET	NUMERICAL	CONFIDENCE	Y	DESCRIPTION	NON	PAVE	ALPHA	DR	BD/LAP	S-DBRK	REFERENCE INFORMATION
(VEP029)	0	0	0	C	0	0	0.000	-10.000	-1.700	55.000	SREF 2.4210
(VEP030)	0	0	0	C	0	0	10.000	-10.000	-1.700	55.000	REF 14.2440
(VEP031)	0	0	0	C	0	0	20.000	-10.000	-1.700	55.000	BRG 28.1004
(VEP032)	0	0	0	C	0	0	10.000	-25.000	-1.700	55.000	XM 30.0
(VEP033)	0	0	0	C	0	0	20.000	-25.000	-1.700	55.000	YM 30.0
(VEP034)	0	0	0	C	0	0	10.000	-25.000	-1.700	55.000	ZM 30.0
(VEP035)	0	0	0	C	0	0	20.000	-25.000	-1.700	55.000	SCALE 11.0300



SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	PRN/L	ALPHA	DR	SDF LAP	SPOBRK	REFERENCE	INTEGRATION
(VEK028)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	0.000	-10.000	-1.700	55.000	SREF	2.47.0
(VEK030)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	10.000	-10.000	-1.700	55.000	LREF	14.14.0
(VEK031)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	20.000	-10.000	-1.700	55.000	BREF	28.10.0
(VEK032)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	10.000	-20.000	-1.700	55.000	XMRD	32.30.0
(VEK033)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	10.000	-20.000	-1.700	55.000	YMRD	32.30.0
(VEK034)	ARC 97-747 GA538 B C M F V I V	NO.	PRN/L	20.000	-20.000	-1.700	55.000	ZMRD	32.30.0
								SCALE	10.000

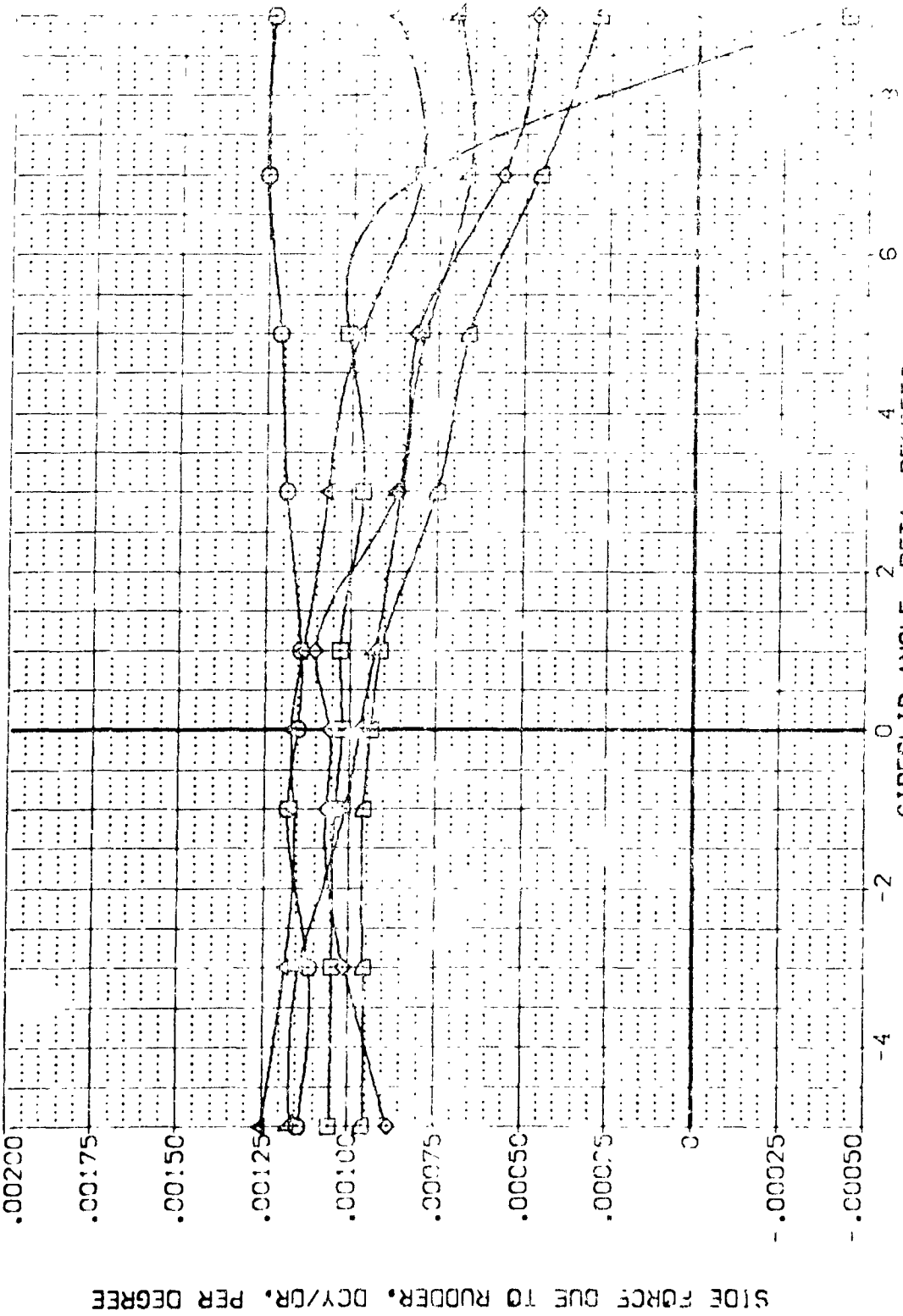


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00



DATA SET SYMBOL
 (VER028)
 (VER029)
 (VER030)
 (VER031)
 (VER032)
 (VER033)
 (VER034)

CONFIGURATION DESCRIPTION
 ARC 97-747 C4538 B C M F W1 V
 ARC 97-747 C4538 B C M F W1 V
 ARC 97-747 C4538 B C M F W1 V
 ARC 97-747 C4538 B C M F W1 V
 ARC 97-747 C4538 B C M F W1 V
 ARC 97-747 C4538 B C M F W1 V

NOM. RN/L
 NOM. RN/L
 NOM. RN/L
 NOM. RN/L
 NOM. RN/L
 NOM. RN/L

ALPHA OR BDF LAP SPOBRK REFERENCE INFORMATION SQ. FT.
 .000 -10.000 55.000 SREF 2.4210
 10.000 -10.000 55.000 LREF 14.2440
 20.000 -10.000 55.000 BREF 28.1004
 10.000 -25.000 55.000 YURP 31.3010
 10.000 -25.000 55.000 YURD 31.3010
 20.000 -25.000 55.000 ZURP 11.7500
 20.000 -25.000 55.000 ZURD 11.7500
 SCALE SCALE

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, PER DEGREE, (BODY AXIS)

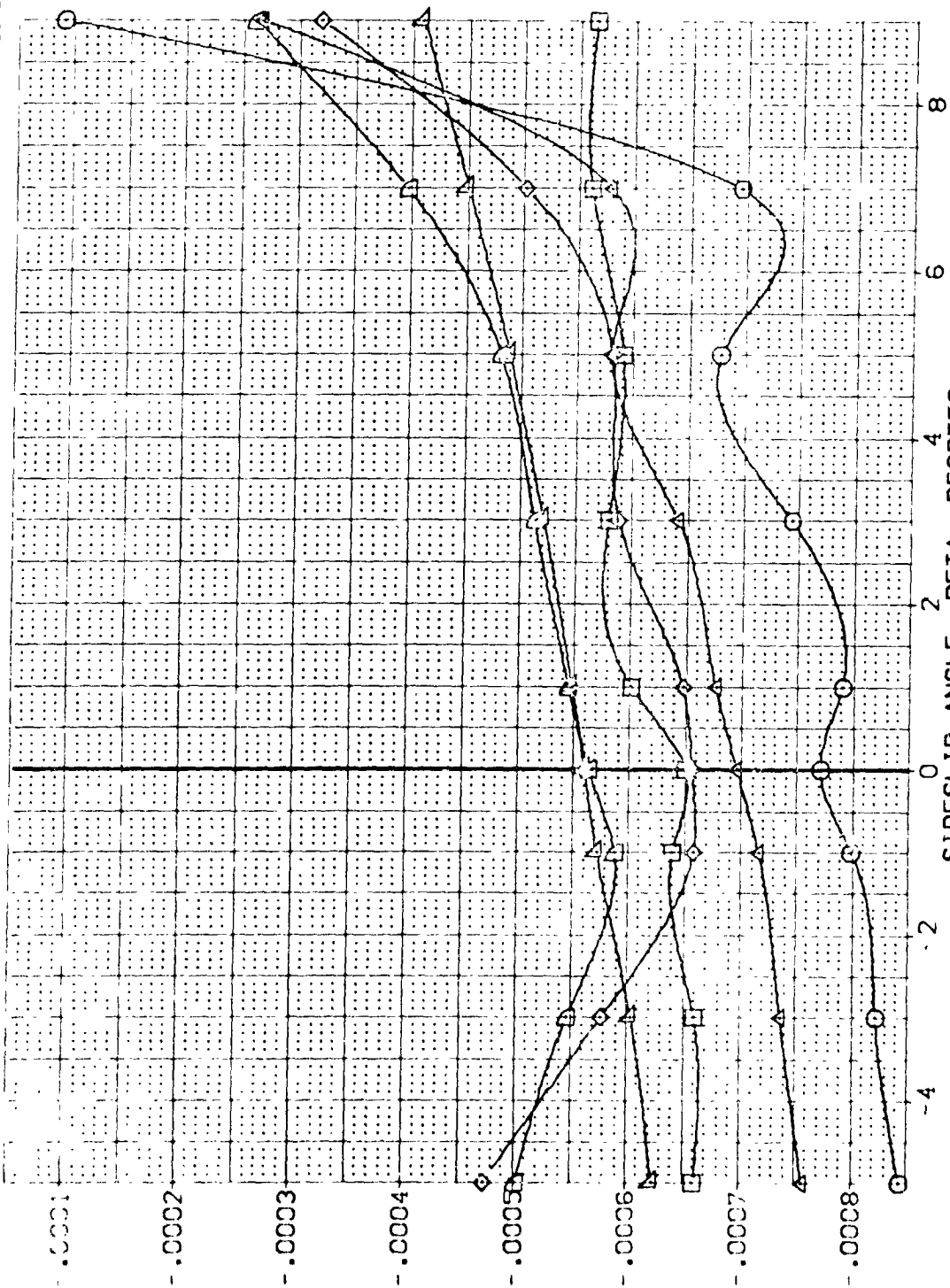


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VERK029)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L
(VERK030)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L
(VERK031)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L
(VERK032)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L
(VERK033)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L
(VERK034)	ARC 97-747	0A538	B C C M F V I	V	NM.	RV/L

ALPHA DR BOFLAP SPOBRK REFERENCE IN-DIM. UNITS SCALE

0.000	-10.000	-11.700	55.000	SREF	2.4210	SC
10.000	-10.000	-11.700	55.000	LRREF	14.7115	LR
20.000	-10.000	-11.700	55.000	BRREF	28.1001	BR
30.000	-25.000	-11.700	55.000	YRREF	32.1000	YR
40.000	-25.000	-11.700	55.000	ZRREF	15.0000	ZR
50.000	-25.000	-11.700	55.000	SCALE	0.0000	SCALE

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

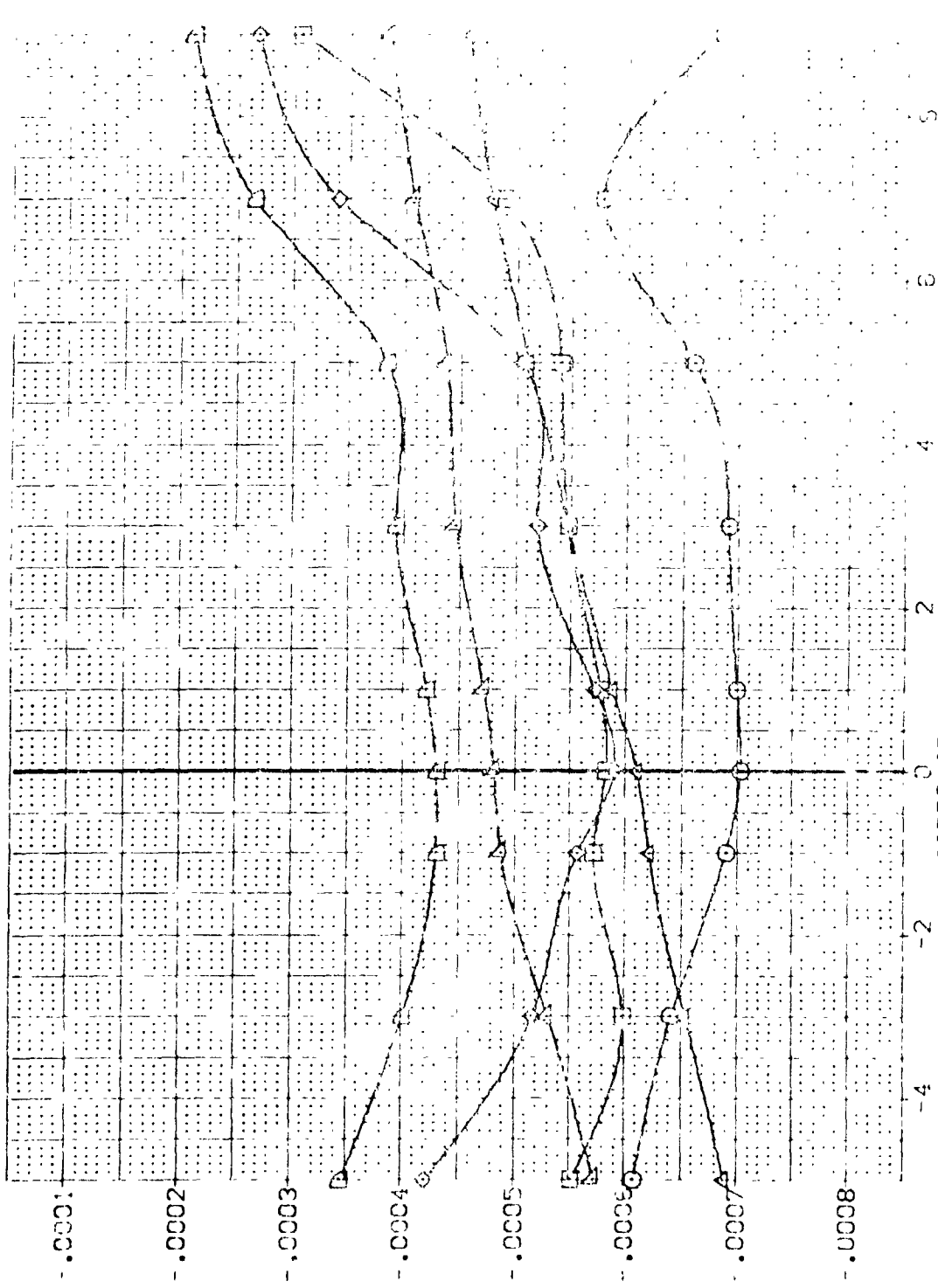


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MACH = 2.00



DATA SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

170	57	47	045	B	C	M	F	V	NO.1	SM/L	SREF	2.4210	50.FT.
170	57	47	045	B	C	M	F	V	NO.2	SM/L	LREF	14.2440	
170	57	47	045	B	C	M	F	V	NO.3	SM/L	BREF	28.1004	
170	57	47	045	B	C	M	F	V	NO.4	SM/L	XMRP	32.3010	
170	57	47	045	B	C	M	F	V	NO.5	SM/L	YMRP	1.0000	
170	57	47	045	B	C	M	F	V	NO.6	SM/L	ZMRP	11.2500	
170	57	47	045	B	C	M	F	V	NO.7	SM/L	SCALE	0.0300	

ALPHA DR BOFLAP SPOBRK

0.000	-10.000	-1.700	55.000
10.000	-10.000	-1.700	55.000
20.000	-10.000	-1.700	55.000
10.000	-25.000	-1.700	55.000
20.000	-25.000	-1.700	55.000

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

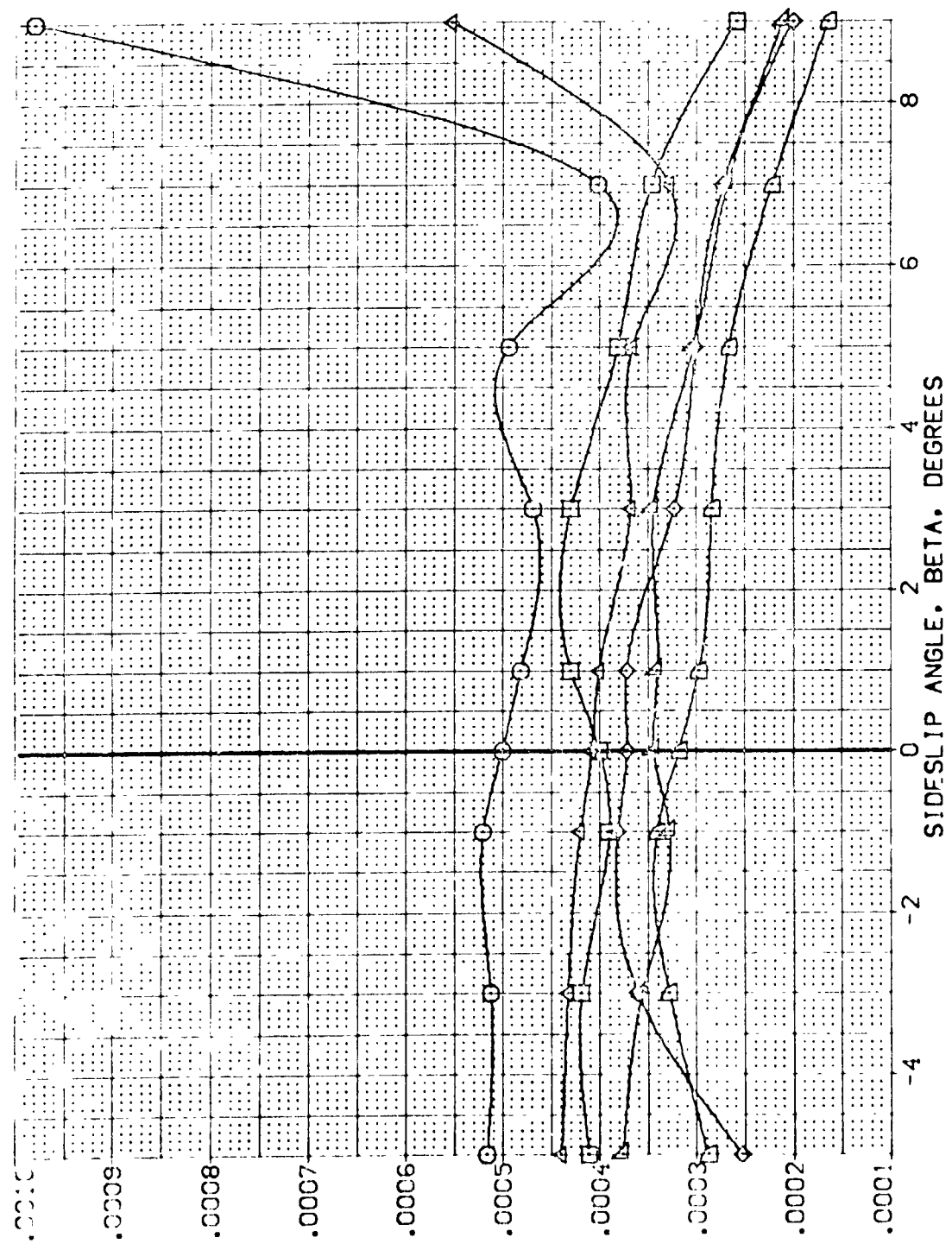


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NOM.	RV/L	ALPHA	DR	BOFLAP	SPDRBK	REFERENCE INFORMATION
(VEK029)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	.000	-10.000	-11.700	55.000	SREF 2.4710 SQ.FT.
(VEK030)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	10.000	-10.000	-11.700	55.000	LRUF 14.2340
(VEK031)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	20.000	-10.000	-11.700	55.000	BRUF 28.1104
(VEK032)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	10.000	-25.000	-11.700	55.000	AMRP 37.300
(VEK033)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	10.000	-25.000	-11.700	55.000	YMRP .0000
(VEK034)	ARC 97-747 CAS38 B C M F V I V	NOM.	RV/L	20.000	-25.000	-11.700	55.000	ZMRP .0000

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

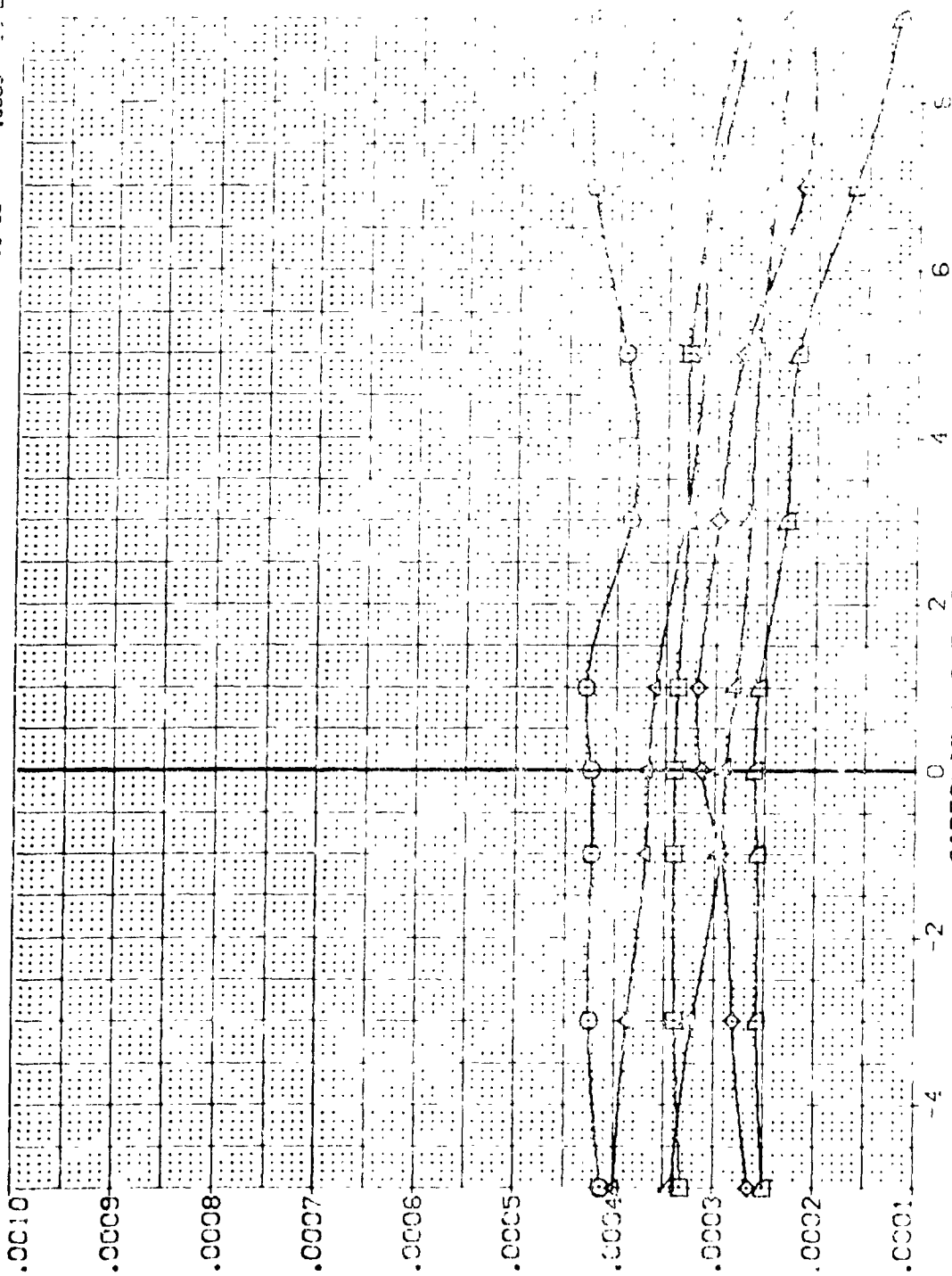


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES
(B)MACH = 2.00



DATA SET 5163L CONFIGURATION DESCRIPTION

ARC	97-747	5338 B	C	M	F	V	NON	RV/L
1	97-747	5338 B	C	M	F	V	NON	RV/L
2	97-747	5338 B	C	M	F	V	NON	RV/L
3	97-747	5338 B	C	M	F	V	NON	RV/L
4	97-747	5338 B	C	M	F	V	NON	RV/L
5	97-747	5338 B	C	M	F	V	NON	RV/L
6	97-747	5338 B	C	M	F	V	NON	RV/L
7	97-747	5338 B	C	M	F	V	NON	RV/L
8	97-747	5338 B	C	M	F	V	NON	RV/L
9	97-747	5338 B	C	M	F	V	NON	RV/L
10	97-747	5338 B	C	M	F	V	NON	RV/L

REFERENCE INFORMATION

SR	REF	SCALE
SREF	2.4210	SC.FT.
LREF	14.2440	IN.
BREF	28.0000	IN.
XMRD	37.3000	IN.
YMRD	0.0000	IN.
ZMRD	11.2500	IN.
SCALE	0.0300	SCALE

BOFLAP: 11.700, 11.700, 11.700, 11.700, 11.700, 11.700, 11.700, 11.700, 11.700, 11.700

DR: -10.000, -10.000, -10.000, -25.000, -25.000, -25.000, -25.000, -25.000, -25.000, -25.000

ALPHA: 0.000, 10.000, 20.000, 10.000, 0.000, 10.000, 20.000, 10.000, 0.000, 10.000

SPOBRK: 55.000, 55.000, 55.000, 55.000, 55.000, 55.000, 55.000, 55.000, 55.000, 55.000

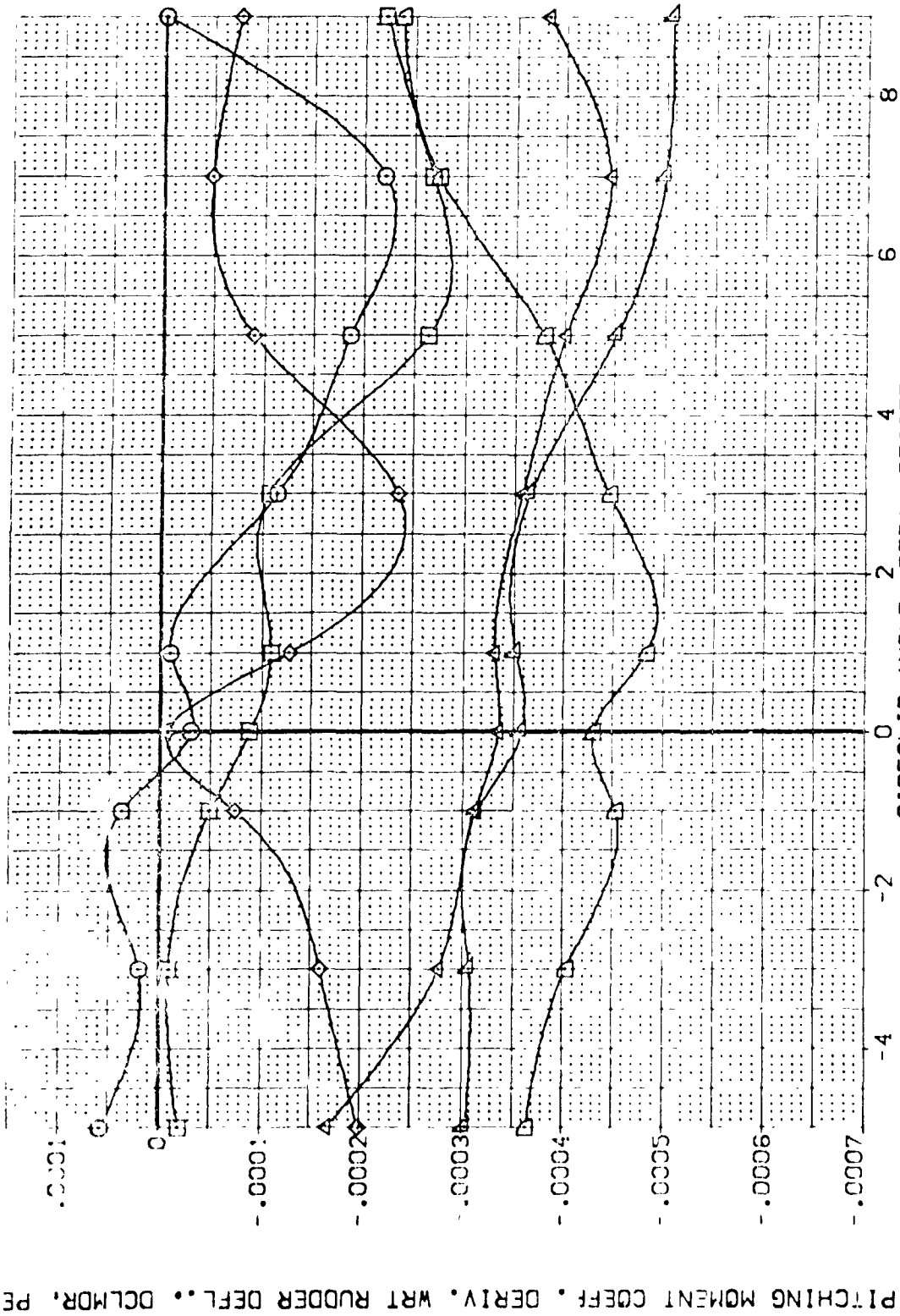


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

ARC 97-747	CAS38	B	C	M	F	V	V	NO.	R/V/L	ALPHA	DR	BOF LAP	SPOBRK	REFERENCE INFORMATION
(VEK028)										10.000	-10.000	-1.700	55.000	SREF 2.4210
(VEK030)										10.000	-10.000	-1.700	55.000	SREF 14.7440
(VEK031)										20.000	-10.000	-1.700	55.000	SREF 28.1574
(VEK032)										10.000	-20.000	-1.700	55.000	SREF 32.9510
(VEK033)										10.000	-20.000	-1.700	55.000	SREF 45.0000
(VEK034)										20.000	-20.000	-1.700	55.000	SREF 11.0300

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMR, PER DEG

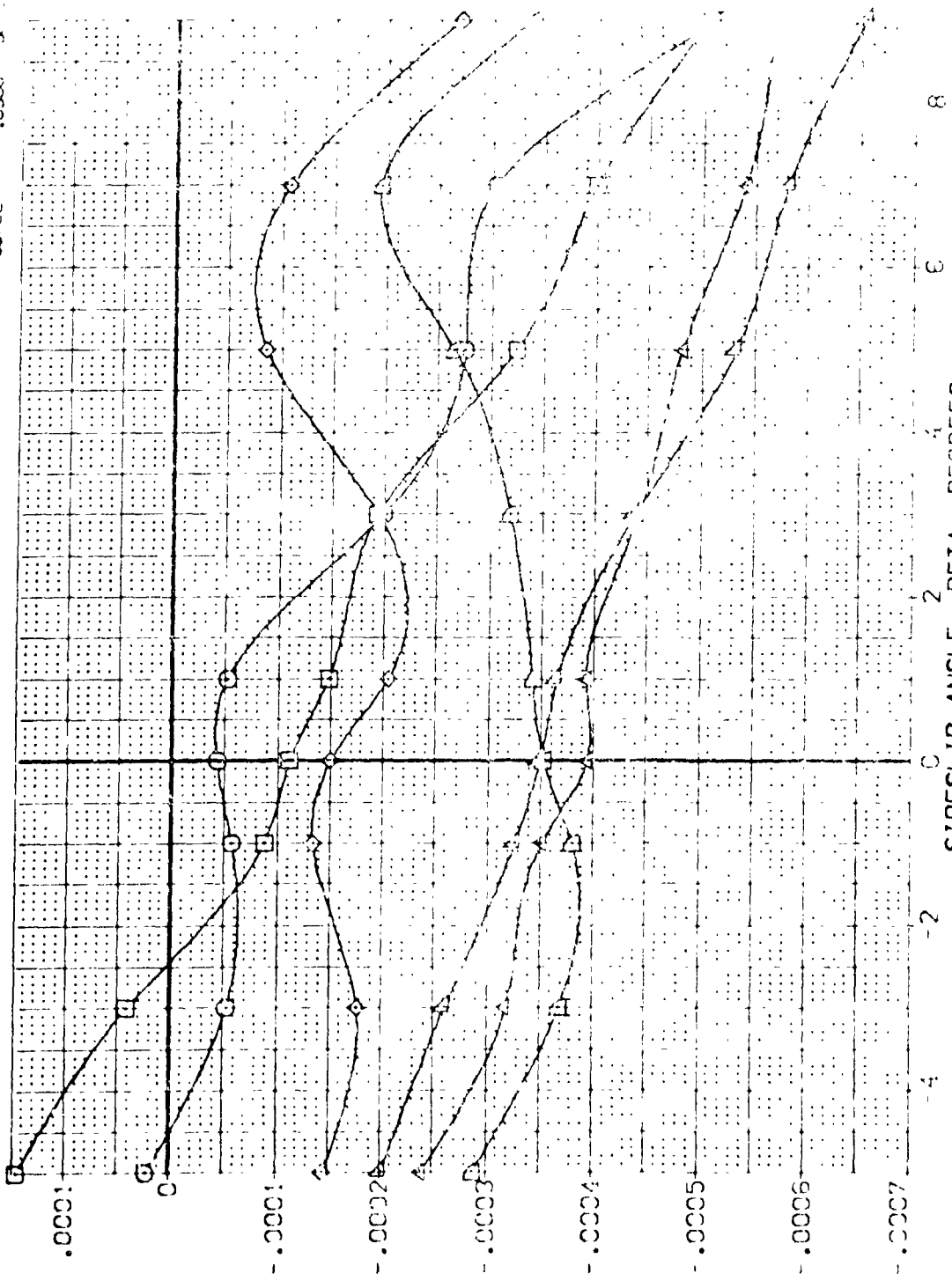


FIG. 23 RUDDER DERIVATIVES, SPEEDBRAKE 55 DEGREES

(B)MAC = 2.00



DATA SET S-600 CONFIGURATION DESCRIPTION

(VE-246)	ABC	80-747	C	B	C	M	E	V	V	NON.	RNVL
(VE-247)	ABC	80-747	C	B	C	M	E	V	V	NON.	RNVL
(VE-248)	ABC	80-747	C	B	C	M	E	V	V	NON.	RNVL

ALPHA OR BOFLAP SPOBRK REFERENCE INFORMATION

.000	-10.000	85.000	SREF	2.4210	50. FT.
10.000	-10.000	85.000	LREF	14.2440	
20.000	-10.000	85.000	BREF	28.1004	
			XMRP	37.3010	
			YMRP	.0000	
			ZMRP	11.2500	
			SCALE	.0300	

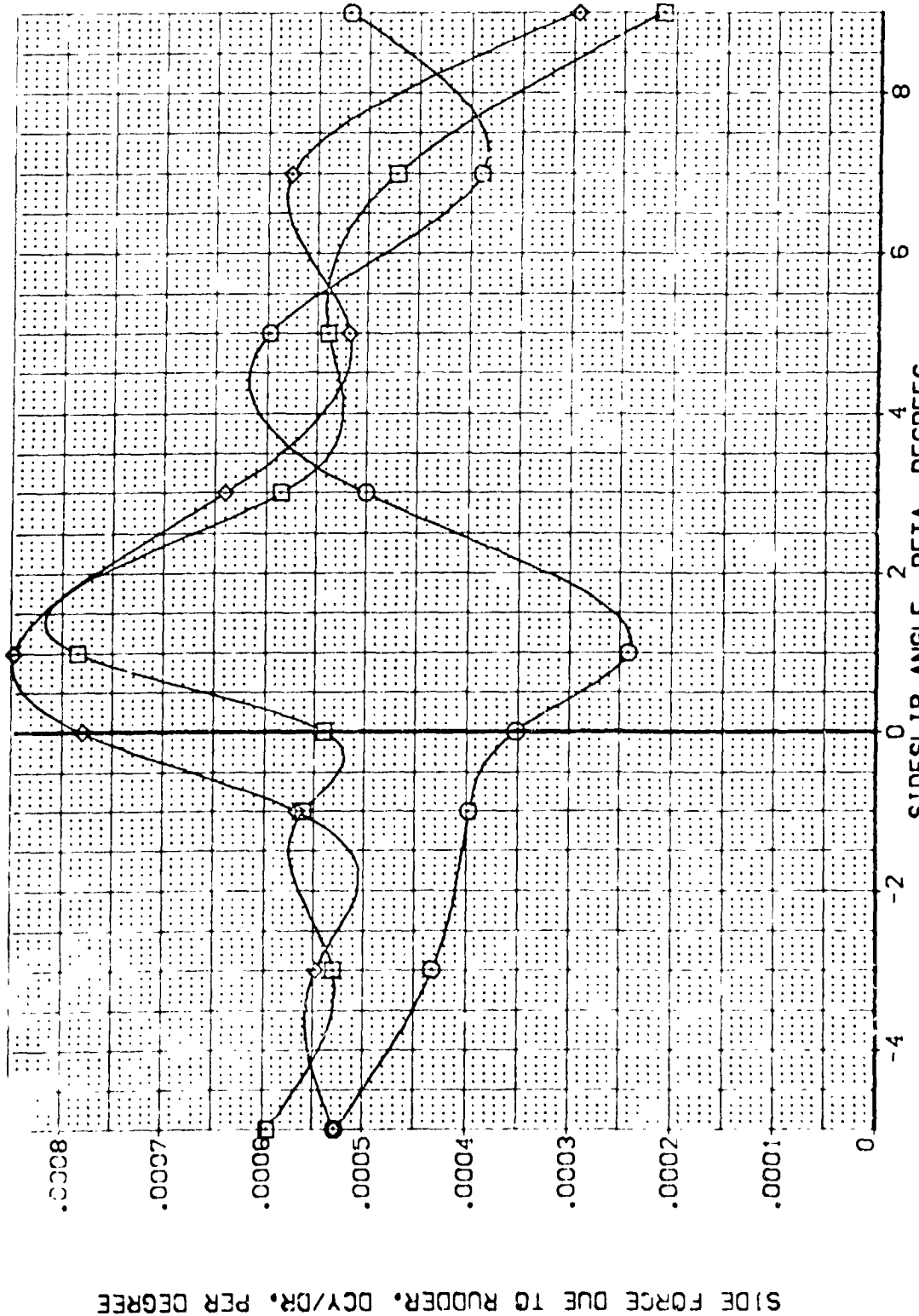


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(A) VACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEMO415) O APC 97-747 0A538 B C M F VI V NOM: RNVL
 (VEMO417) O ARC 97-747 0A538 B C M F VI V NOM: RNVL
 (VEMO418) O ARC 97-747 0A538 B C M F VI V NOM: RNVL

ALPHA DR BUF LAP SPOBRK
 0.000 -10.000 -11.700 85.000
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

REFERENCE INFORMATION
 SREF 2.4710 SQ
 LREF 14.2440
 BREF 28.1004
 XMRD 32.3010
 YMRD 1.0000
 ZMRD 11.5000
 SCALE 1.5000

SIDE FORCE DUE TO RUDDER, DCY/DR, PER DEGREE

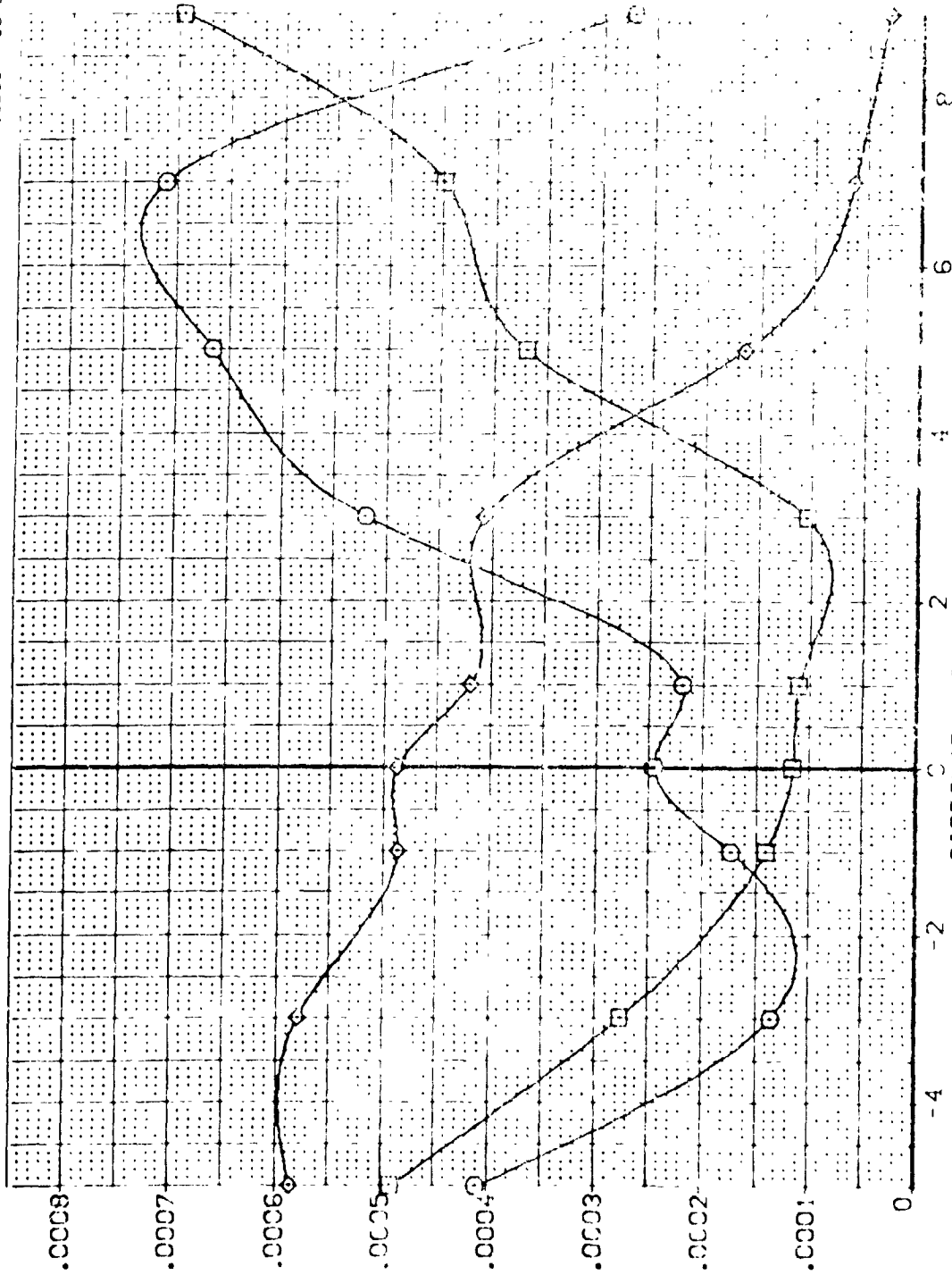


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B)MAC = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REF 046) C 07-047 C1538 B C M F V V V
 (REF 047) C 07-047 C1538 B C M F V V V
 (REF 048) C 07-047 C1538 B C M F V V V

ALPHA DR BDF LAP SPOBRK
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

REFERENCE INFORMATION:
 SREF 2.4210 SCALF
 WREF 14.2440
 BREF 28.1004
 XMRP 37.3010
 YMRP .0000
 ZMRP 11.7500
 SCALE .0300

YAWING MOMENT DUE TO RUDDER, DCYNDR, PER DEGREE, (BODY AXIS)

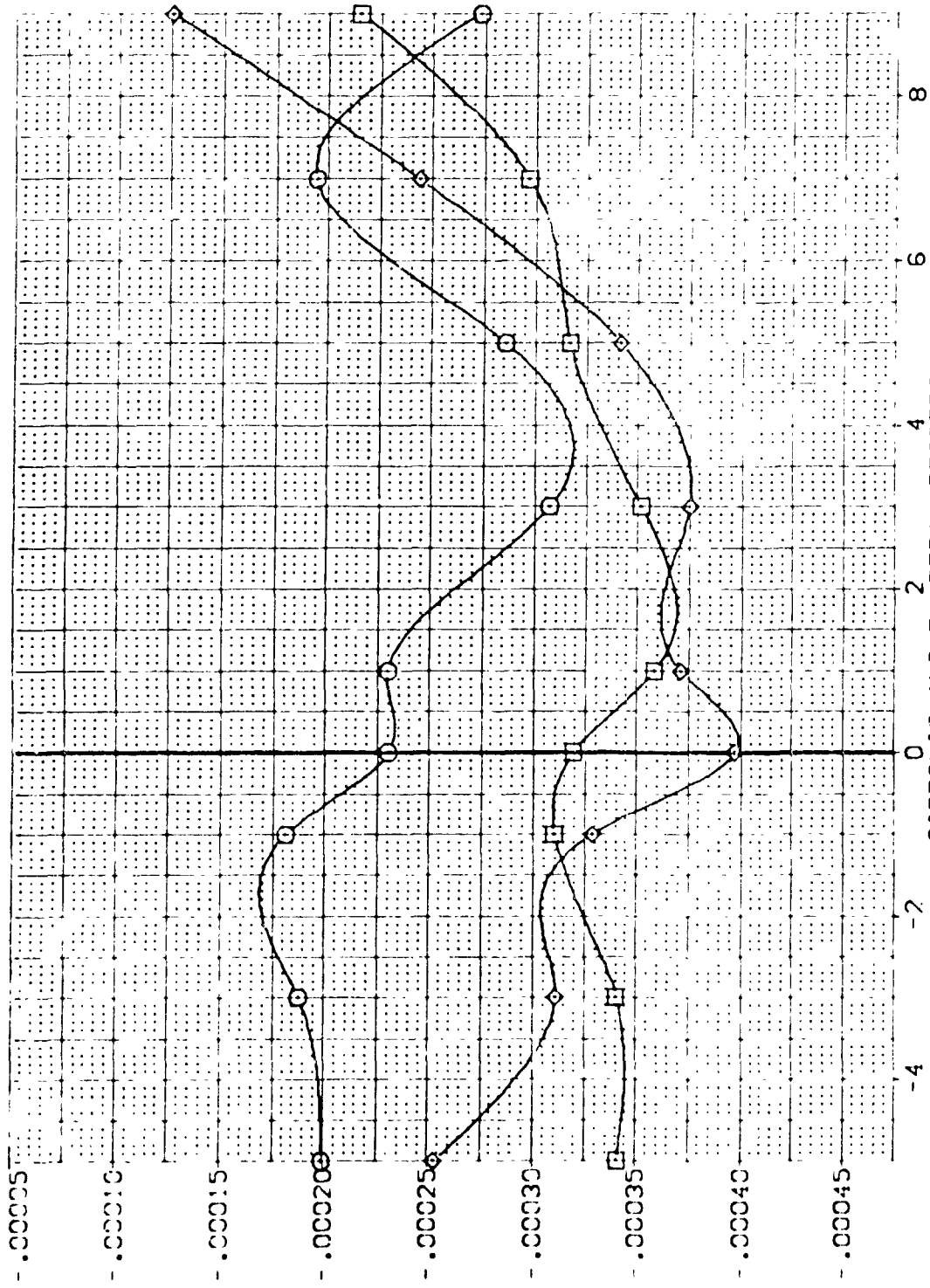


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(MACH = 1.60)

DATA SET SYMBOL: (VEK046) (VEK047) (VEK048)

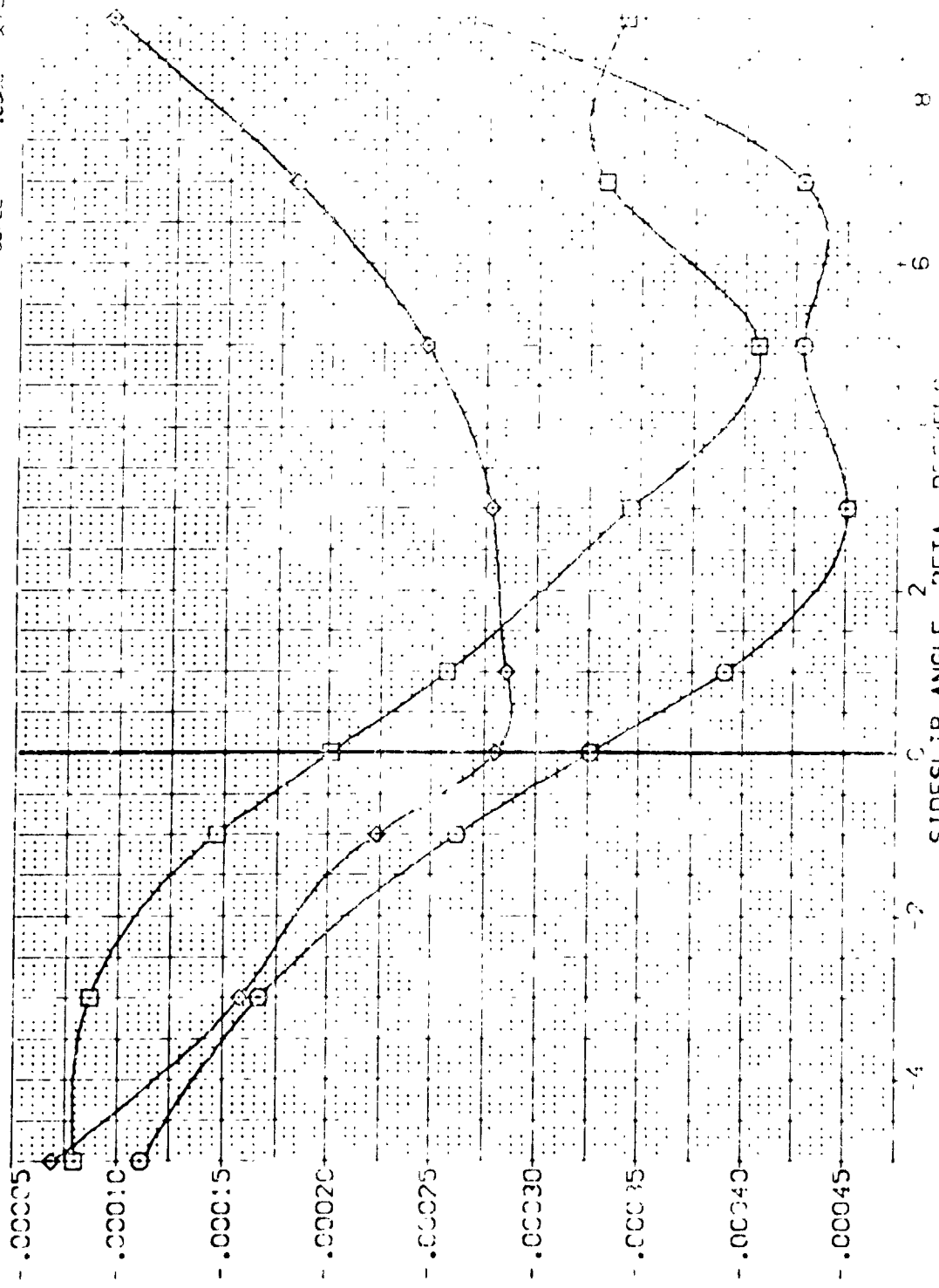
CONFIGURATION DESCRIPTION:
 ARC 97-747 0A538 B C M F V | V
 ARC 97-747 0A538 B C M F V | V
 ARC 97-747 0A538 B C M F V | V

NOT. RV/L
 NOT. RV/L
 NOT. RV/L

ALPHA DR BOFLAP SPOBRK
 .000 -10.000 -11.700 85.000
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

REFERENCE INFORMATION:
 SPREF 2.4710 SCAL
 RPREF 11.2440
 BPREF 28.004
 XMRP 32.000
 YMRP 11.7500
 ZMRP 10.3000
 SCALE

YAWING MOMENT DUE TO RUDDER, DCYNOR, PER DEGREE, (BODY AXIS)



SIDESLIP ANGLE, BETA, DEGREE

FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B)MACH - 2.00



REFERENCE INFORMATION
 SREF 2.4210 50 FT.
 LREF 14.2140 IN.
 BREF 28.1004 IN.
 XREF 32.3010 IN.
 YREF 0.0000 IN.
 ZREF 7.4000 IN.
 SCALE 0.0300

ALPHA DR BDF LAP SPOBRK
 .000 -10.000 -11.700 85.000
 10.000 -10.000 -11.700 85.000
 20.000 -10.000 -11.700 85.000

DATA SYMBOL COEFFICIENT DESCRIPTION
 ABC 815747 04538 B C M F V Y NOM. RV/L
 ABC 815747 04538 B C M F V Y NOM. RV/L
 ABC 815747 04538 B C M F V Y NOM. RV/L

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

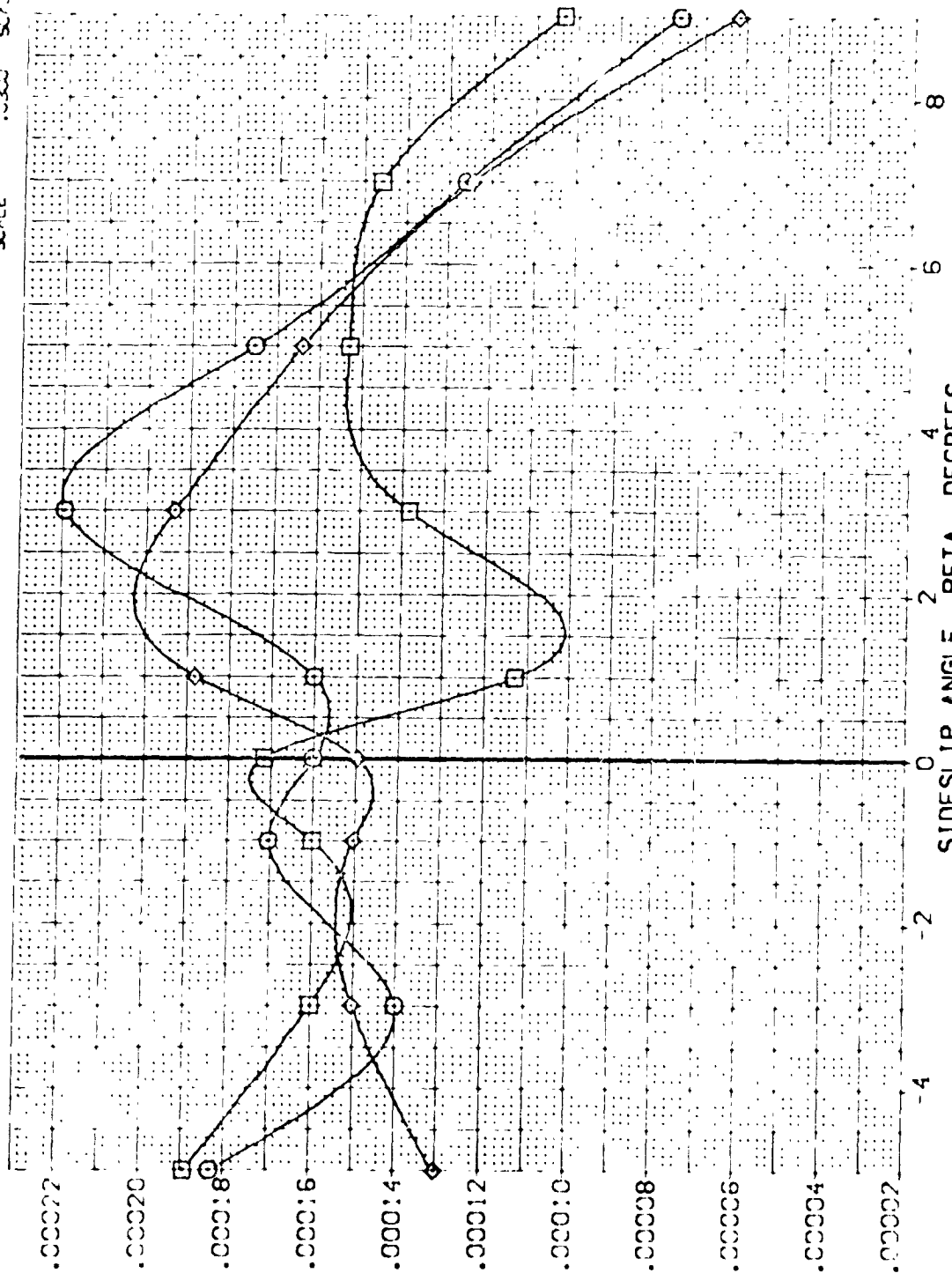


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

CAS/MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VEM046) □ ARC 97-747 04538 B C M F V I Y
 (VEM047) □ ARC 97-747 04538 B C M F V I Y
 (VEM048) □ ARC 97-747 04538 B C M F V I Y

NOM. RM/L
 NOM. RM/L
 NOM. RM/L

ALPHA DR BDF LAP SPOBRK

SREF 85.000
 LREF 85.000
 BREF 85.000
 XREF 85.000
 YREF 85.000
 ZREF 85.000
 SCALE 11.330

REFERENCE INFORMATION
 2.4210
 14.7640
 28.1304
 32.3100
 11.3300
 5.7150

ROLLING MOMENT DUE TO RUDDER, DCBLDR, PER DEGREE, (BODY AXIS)

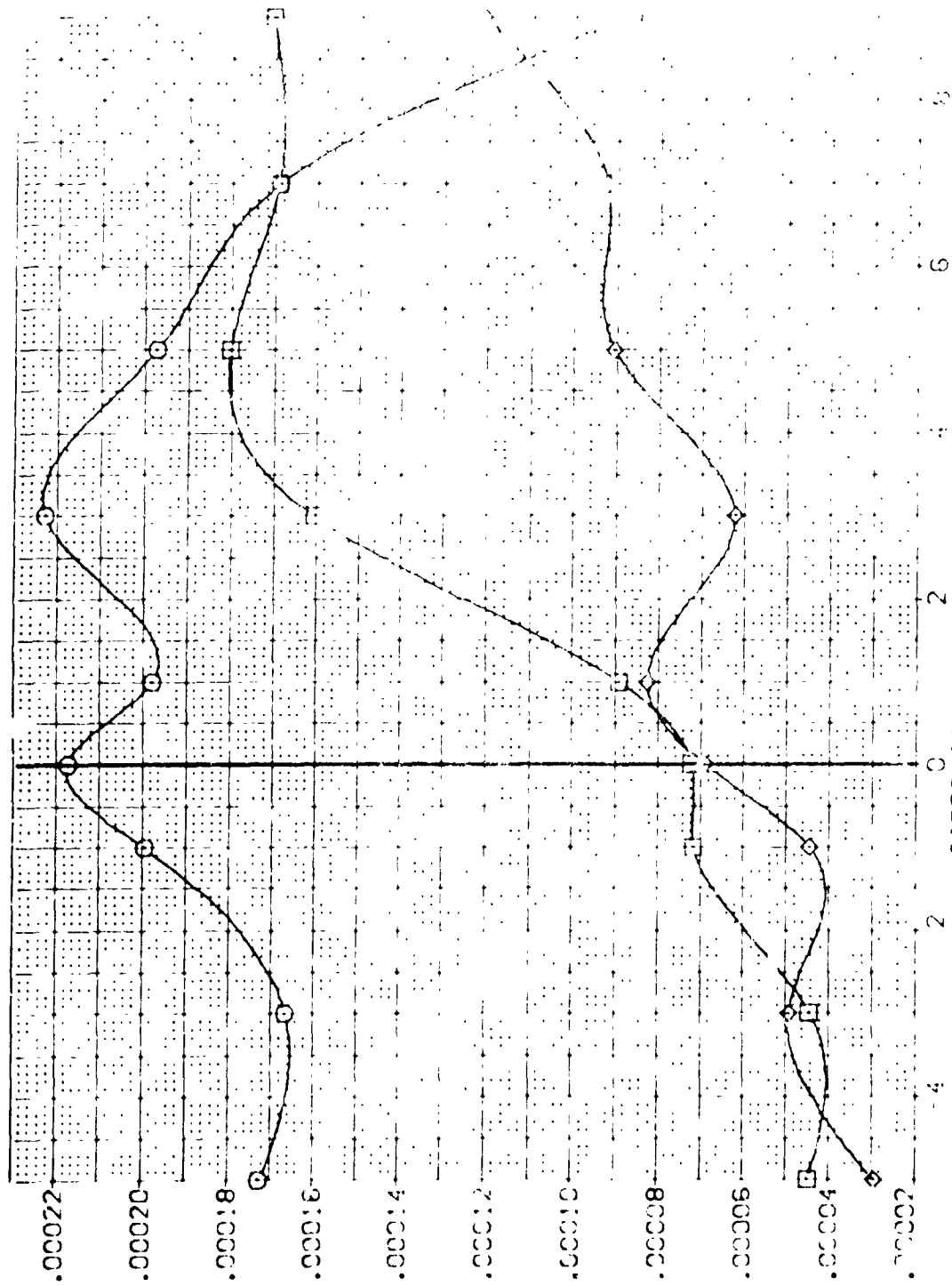


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREE

(B)MAC 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	DR	BDELAP	SPDBRK	REFERENCE INFORMATION
(VEK046)	ARC 97-747 0A538 B C M F V I V	.000	-10.000	-11.700	65.000	SREF 2.4210
(VEK047)	ARC 97-747 0A533 B C M F V I V	10.000	-10.000	-11.700	85.000	LREF 14.242
(VEK048)	ARC 97-747 0A538 B C M F V I V	20.000	-10.000	-11.700	85.000	BREF 28.104
						YMRP 37.3010
						ZMRP .0000
						SCALE 11.2500
						SCALE 11.0300

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMDR, PER DEG

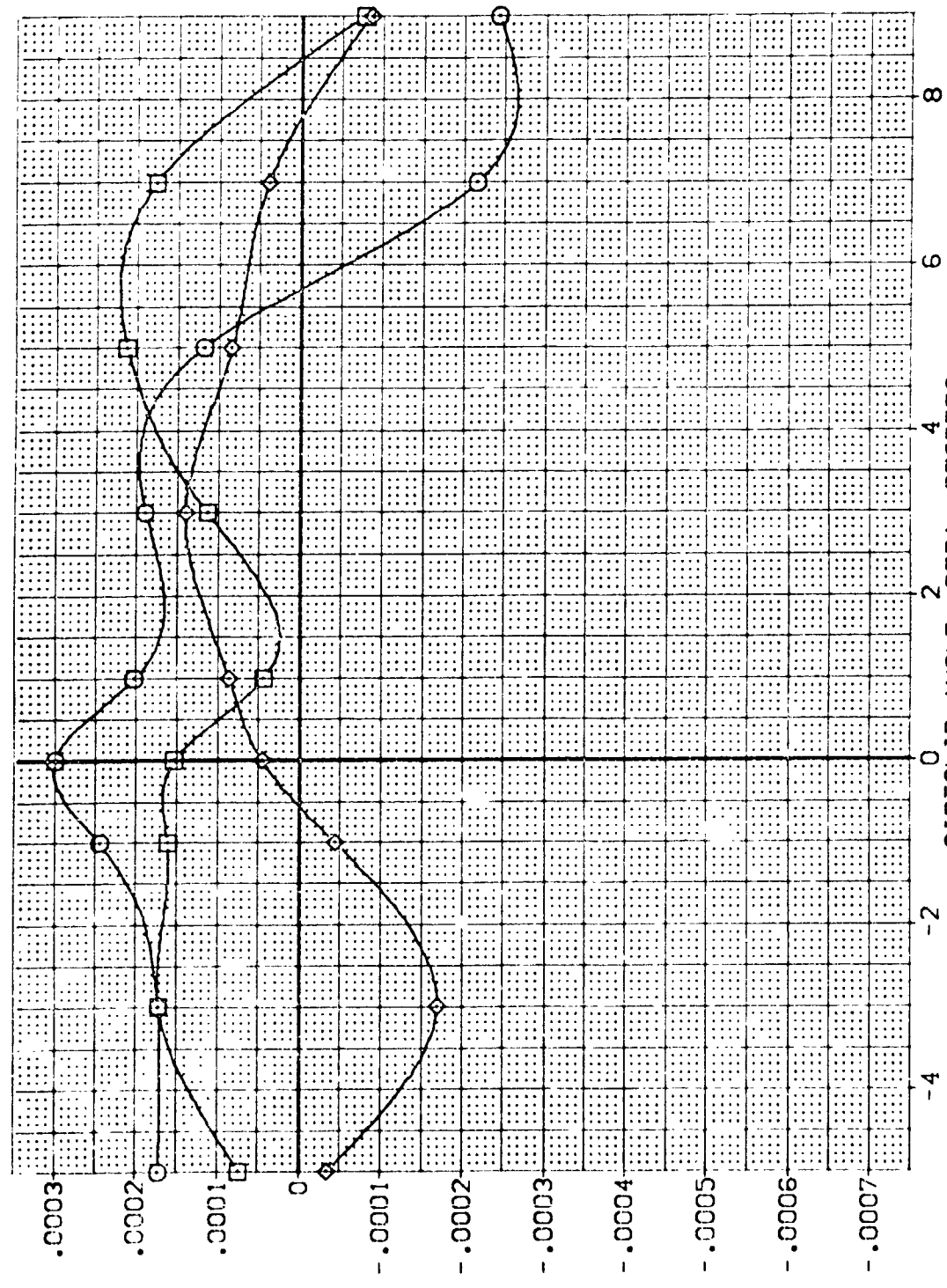


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

MACMACH = 1.60

DATA SET SYMBOL: (VEK046) (VEK047) (VEK048)

CONFIGURATION DESCRIPTION:
 ARC 97-747 DA538 B C M F V | V
 ARC 97-747 DA538 B C M F V | V
 ARC 97-747 DA538 B C M F V | V

ALPHA DR BOFLAP SPEEDK REFERENCE INFORMATION

0.000	-10.000	-11.700	85.000	SRLF	2.4210
10.000	-10.000	-11.700	85.000	LREF	14.2440
20.000	-10.000	-11.700	85.000	BREF	28.1004
				YMRP	32.3010
				ZMRP	11.0000
				SCALE	11.0000

PITCHING MOMENT COEFF. DERIV. WRT RUDDER DEFL., DCLMR, PER DEG

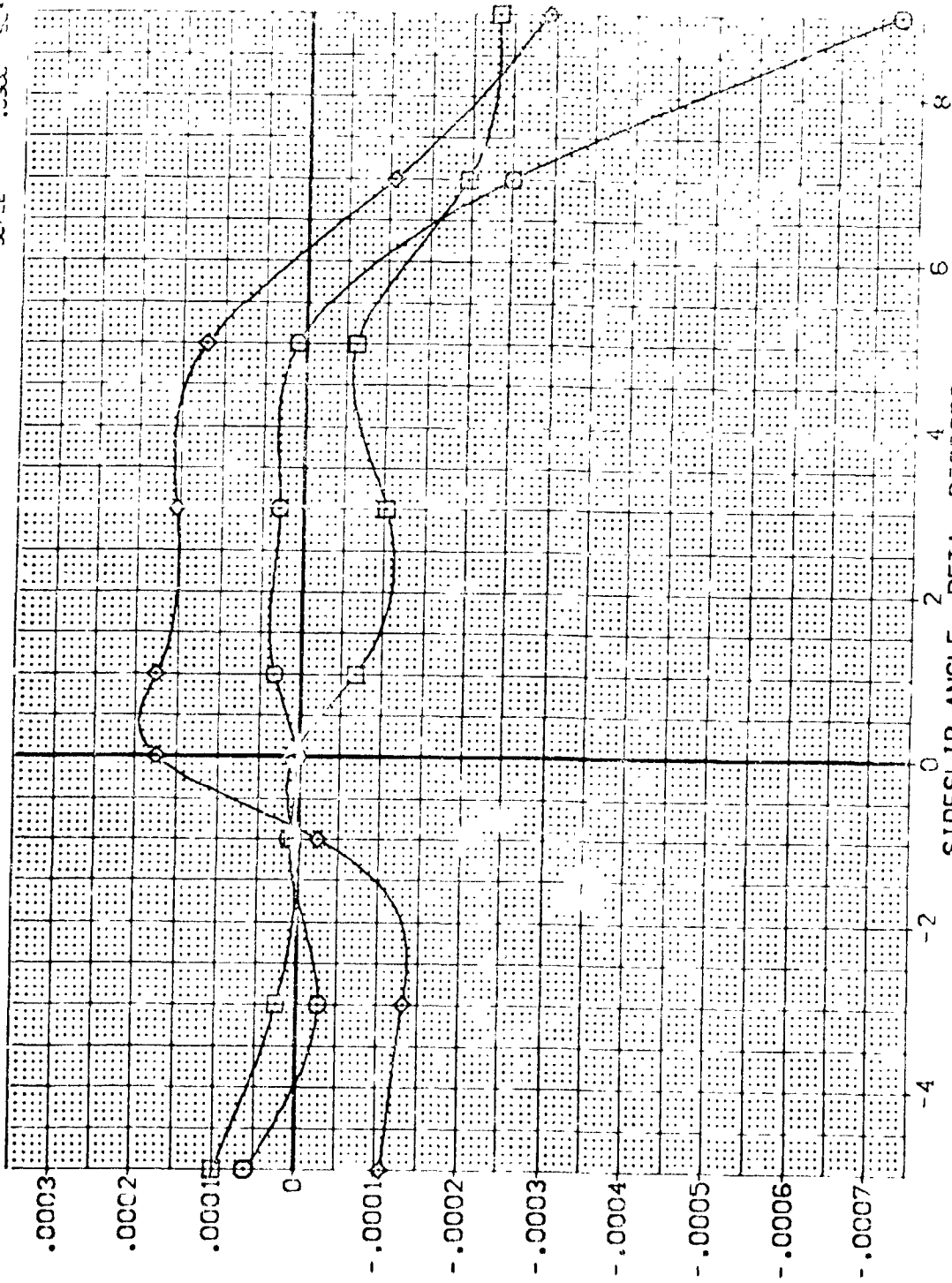


FIG. 24 RUDDER DERIVATIVES, SPEEDBRAKE 85 DEGREES

(B)MACH = 2.00



DATA SET SYMBOL

CONFIGURATION DESCRIPTION

NOT. RN/L

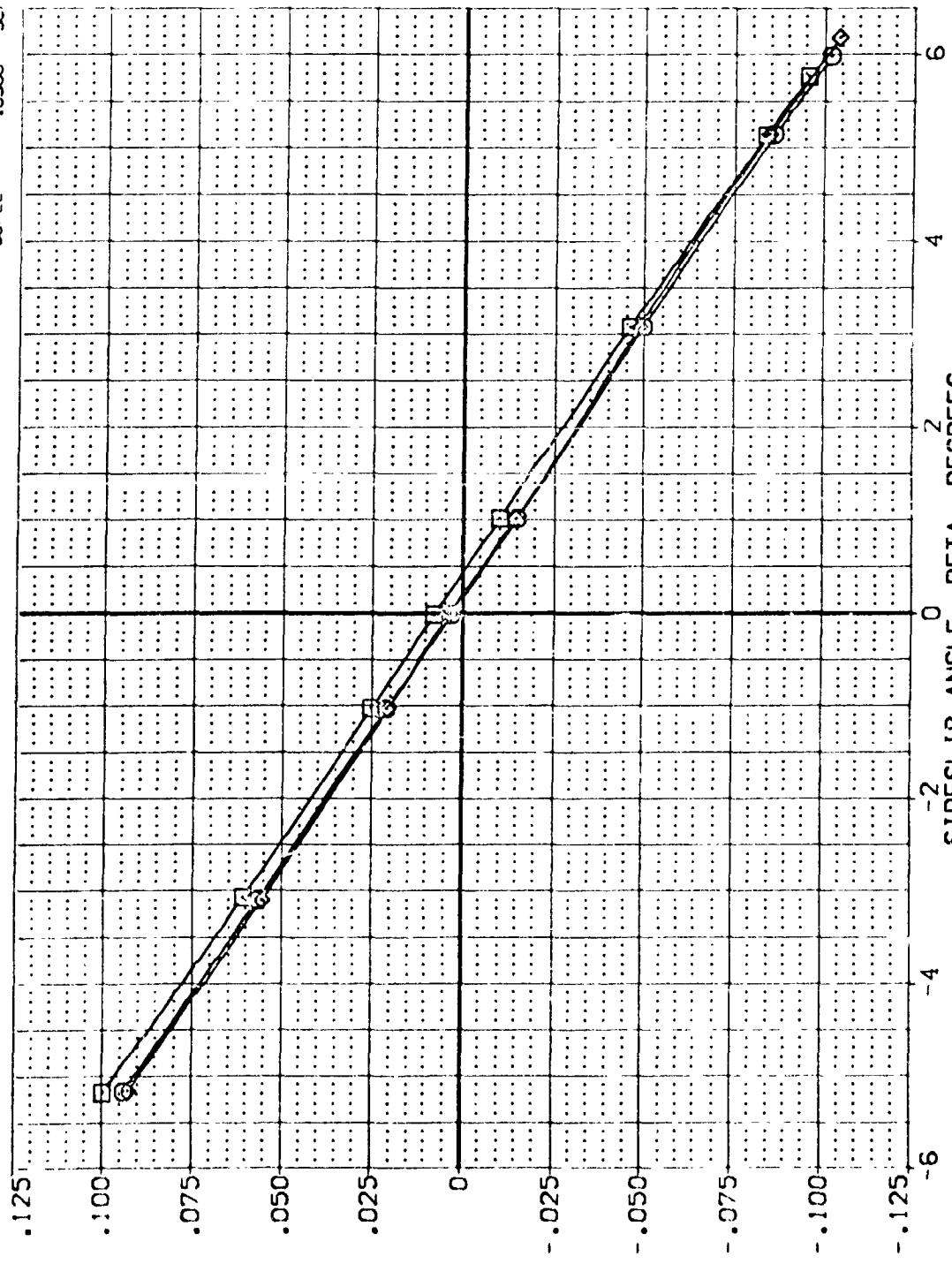
ALPHA

RUDER

BOFLAP

SPOBRK

REFERENCE INFORMATION



SIDE FORCE COEFFICIENT, C_y

FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: (AEK075) (AEK012) (AEK039)

CONFIGURATION DESCRIPTION:
 ARC 97-747 OAS38 B C H F VI V
 ARC 97-747 OAS38 B C H F VI V
 ARC 97-747 OAS38 B C H F VI V

NON: RNVL
 NON: RNVL
 NON: RNVL

ALPHA: .000
 .000
 .000

RUDDER: .000
 .000
 .000

BOFLAP: -11.700
 -11.700
 -11.700

SPOBRK: 25.000
 55.000
 85.000

REFERENCE INFORMATION:
 SREF: 2.4210 50.77
 LREF: 14.2440
 BREF: 28.1004
 XMRP: 32.3012
 YMRP: .0000
 ZMRP: 11.7500
 SCALE: .0300

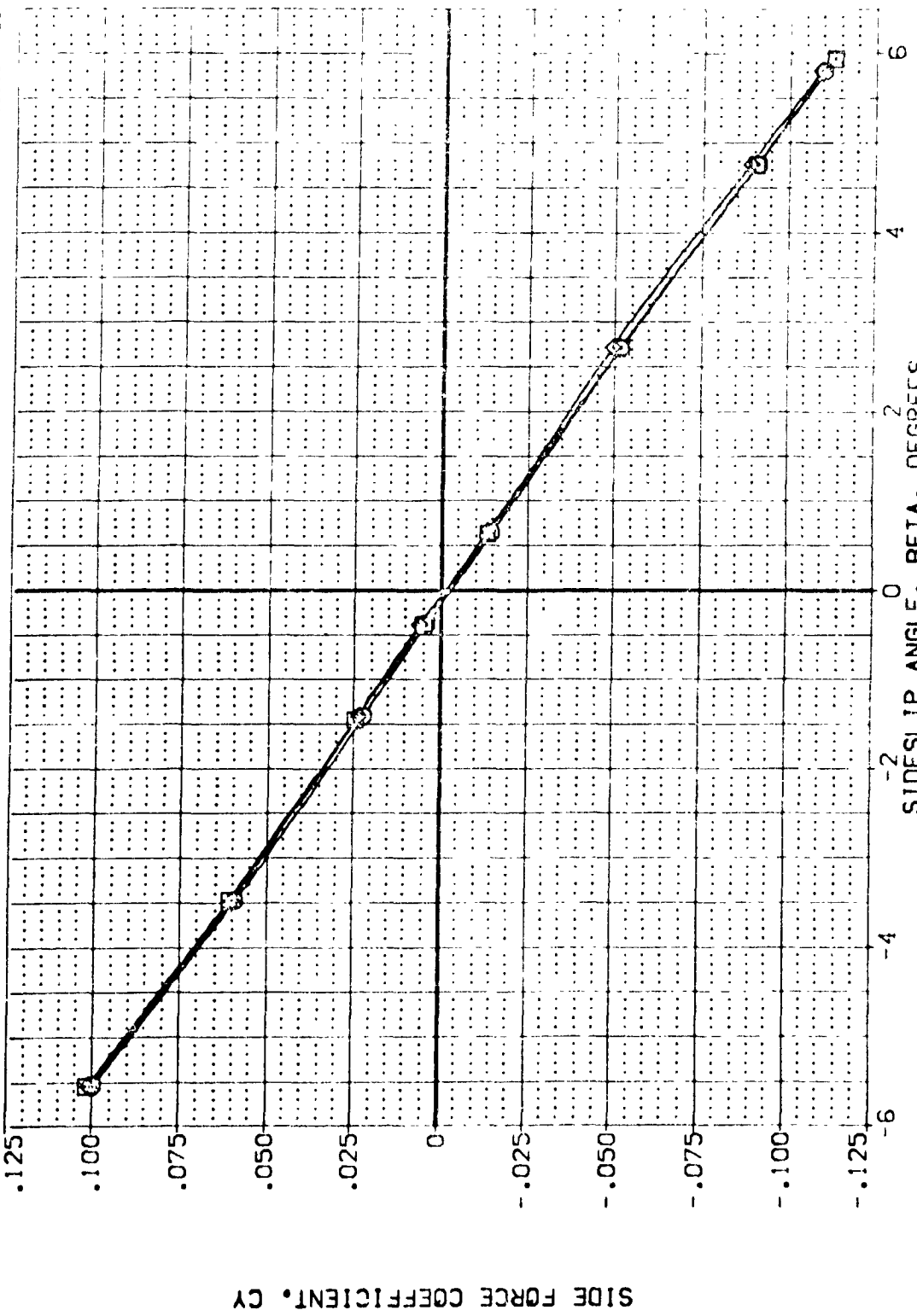
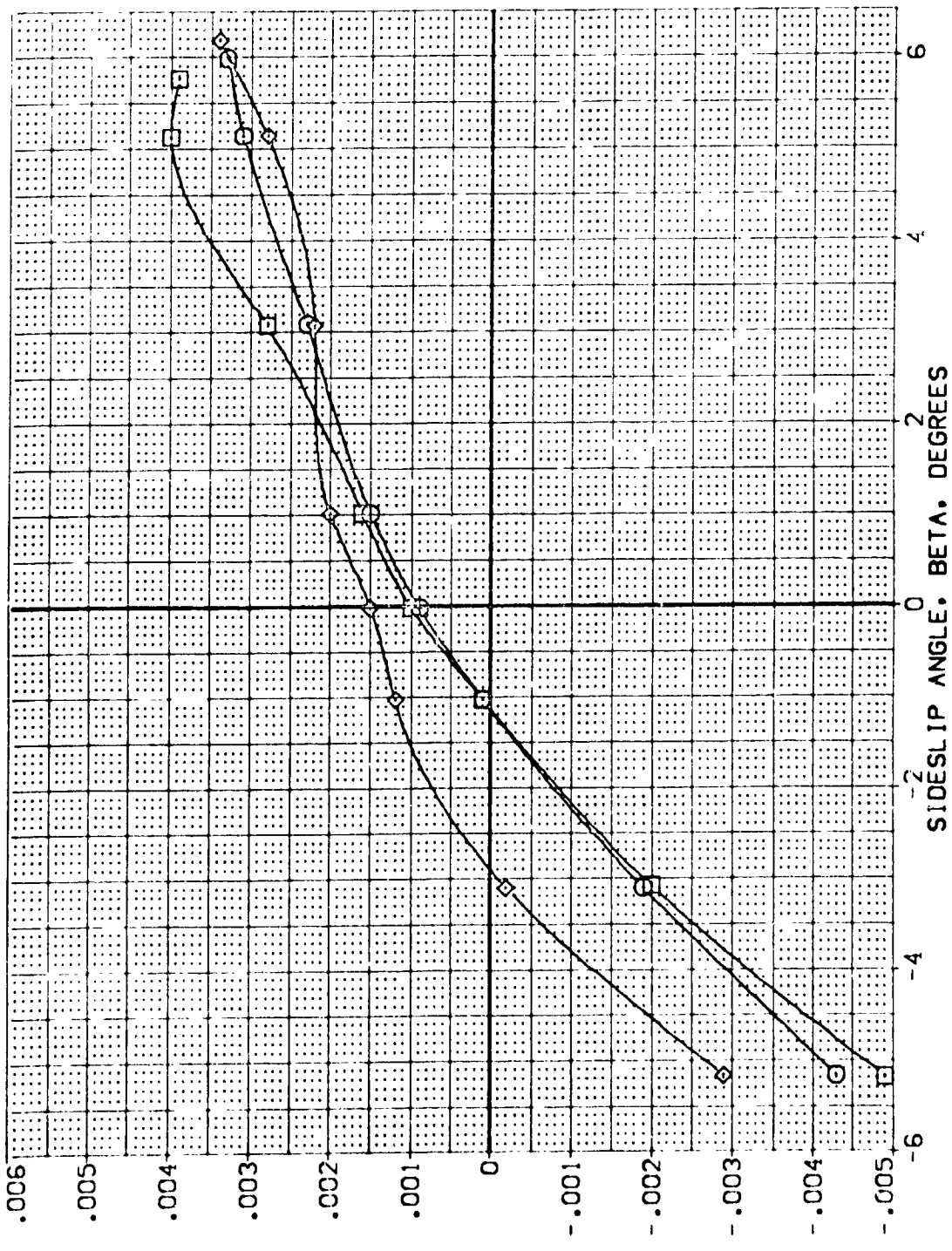


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON. RV/L	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
(AE#025)	ARC 97-747 0A538 B C M F V I V	NON. RV/L	.000	.000	-11.700	25.000	SREF 2.4210
(AE#012)	ARC 97-47 0A538 B C M F V I V	NON. RV/L	.000	.000	-11.700	55.000	LREF 14.2440
(AE#039)	ARC 97-747 0A538 B C M F V I V	NON. RV/L	.000	.000	-11.750	85.000	BREF 28.1004
							XMRR 32.3010
							YMRP 11.0000
							ZMRP 11.2000
							SCALE .0300

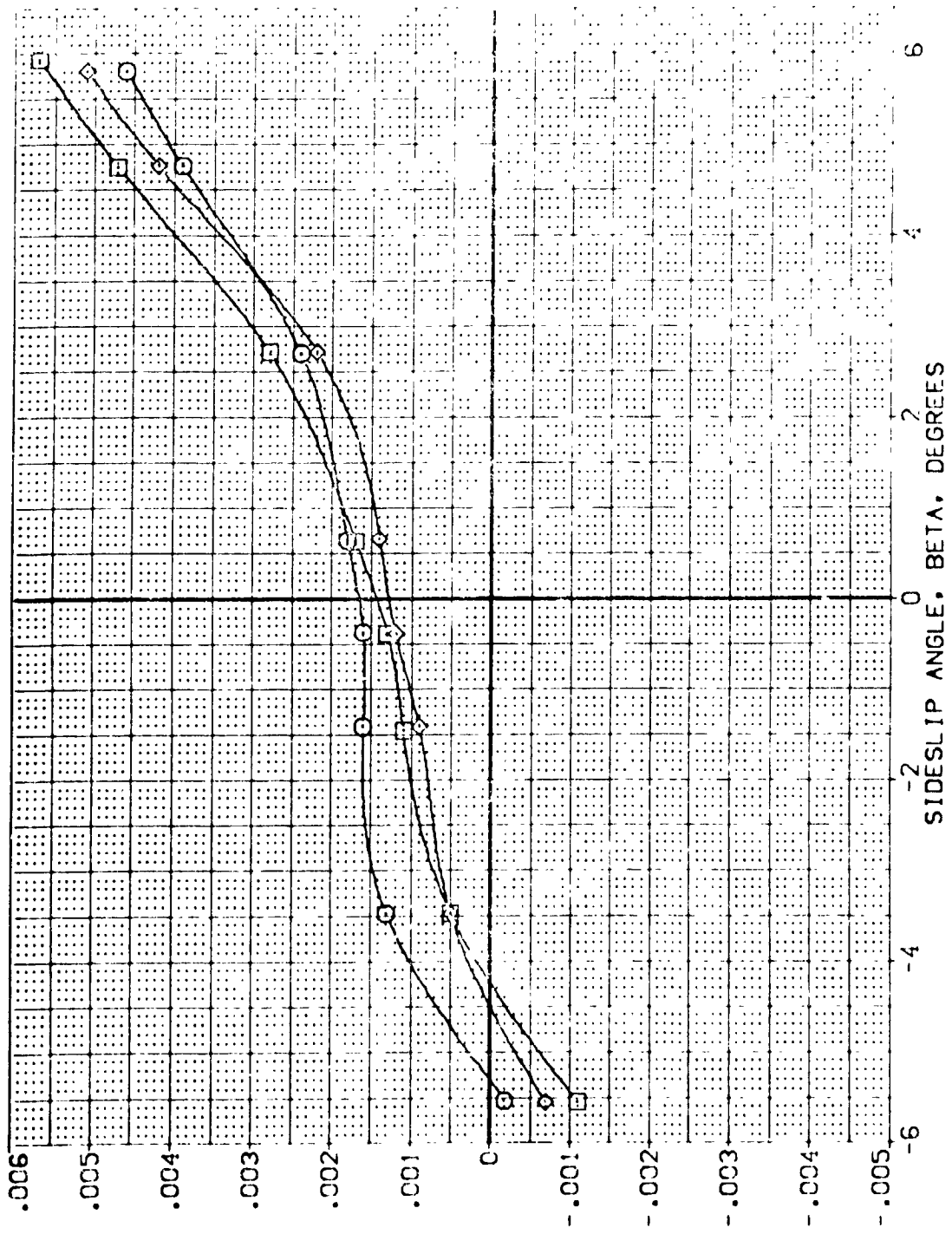


YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	SPOBRK	REFERENCE INFORMATION
(AEK075)	ARC 97-747 BA538 B C M F V1 V	.000	.000	-11.700	29.000	2.4210
(AEK012)	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	55.000	14.2440
(AEK038)	ARC 97-747 DA538 B C M F V1 V	.000	.000	-11.700	85.000	28.1004
						37.3010
						.0000
						.0000
						11.2300
						SCALE



YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

FIG. 25 SPEEDBRAKE EFFECTS

(8) MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEF005)	ARC 97-247	CAS38 B C M F VI V	NOM: RNVL
(AEF012)	ARC 97-247	CAS38 B C M F VI V	NOM: RNVL
(AEF039)	ARC 97-247	CAS38 B C M F VI V	NOM: RNVL

ALPHA .000 .000 .000

RUDDER .000 .000 .000

BOFLAP -11.700 -11.700 -11.700

SPOBRK 25.000 55.000 85.000

REFERENCE INFORMATION

SREF	2.4210	SQ. FT.
LREF	14.2440	IN.
BREF	28.0004	IN.
XMRP	32.3010	IN.
YMRP	.0000	IN.
ZMRP	11.2507	IN.
SCALE	.0300	

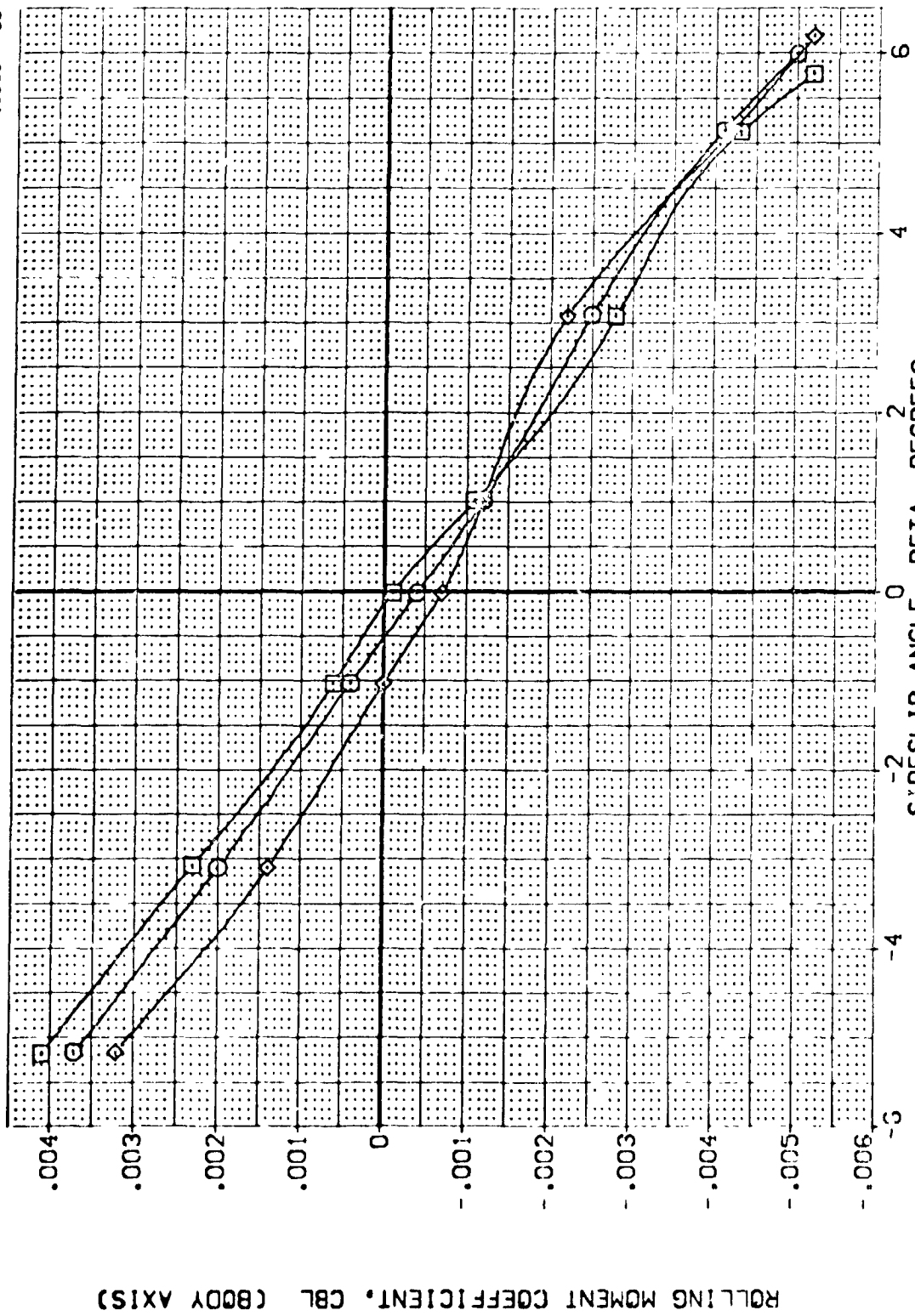


FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL: [AER025] [AER012] [AEP039]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F V I V NOM, RVUL
 ARC 97-747 CAS38 B C M F V I V NOM, RVUL
 ARC 97-747 CAS38 B C M F V I V NOM, RVUL

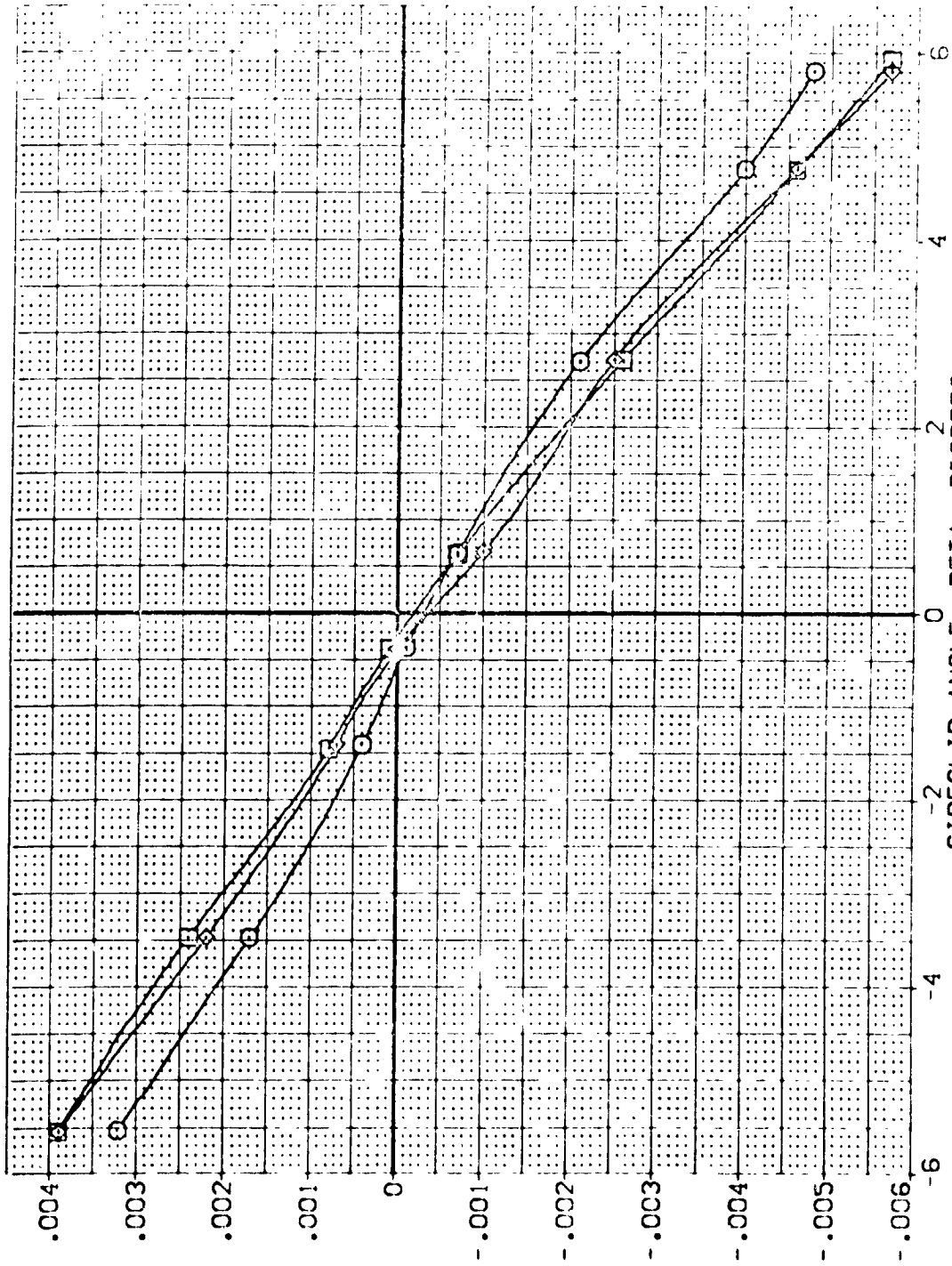
ALPHA: .000 .000 .000

RUDDER: .000 .000 .000

BOE LAP: -.700 -.700 -.700

SPOBRK: 25,000 55,000 85,000

REFERENCE INFORMATION: SREF 2,4210 SC.FT.
 LREF 14,2410
 BREF 28,1004
 XMRP 32,3010
 YMRP .0000
 ZMRP 11,2500
 SCALE 11,0000



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

SIDESLIP ANGLE, BETA, DEGREES

FIG. 25 SPEEDBRAKE EFFECTS

(B) VACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
{AEP076}	ARC 97-747 CAS38 B C M F V V	10.000	.000	-11.700	75.000	SREF 2.4710
{AEP073}	ARC 97-747 CAS38 B C M F V V	10.000	.000	-11.700	55.000	LRFF 14.2440
{AEP040}	ARC 97-747 CAS38 B C M F V V	10.000	.000	-11.700	85.000	BRFF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP .0000
						SCALE 11.2500
						SCALE .0300

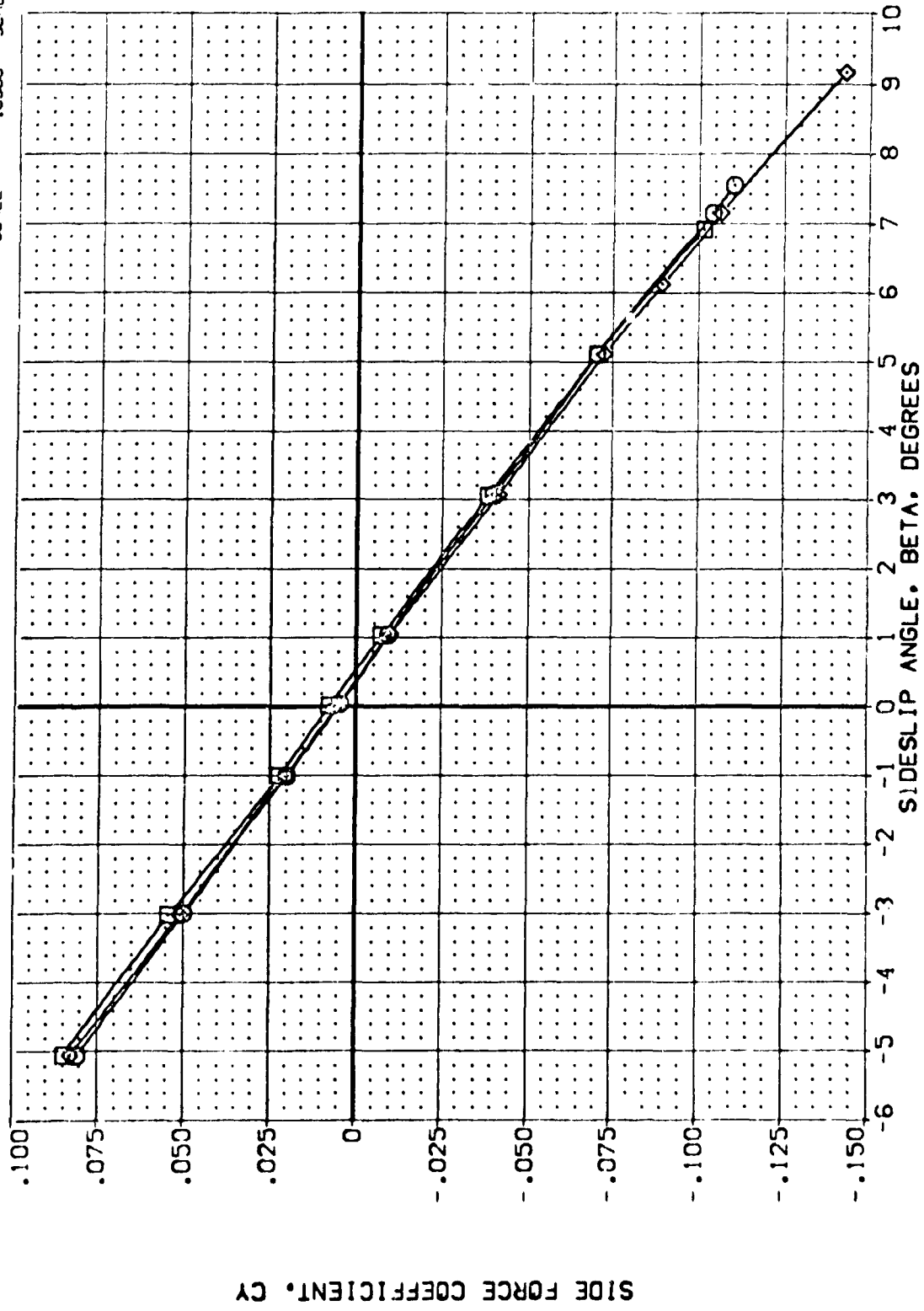


FIG. 25 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BDF LAP SPOBRK REFERENCE INFORMATION

[ALPC06]	ARC 97-747	CA538 B C M F V	V	10.000	.000	-11.700	25.000	SREF	2.4210
[ALPC03]	ARC 97-747	CA538 B C M F V	V	10.000	.000	-11.700	55.000	LREF	14.2440
[ALPC40]	ARC 97-747	CA538 B C M F V	V	10.000	.000	-11.700	85.000	BREF	28.1004
								XMRP	32.3010
								ZMRP	.0000
								SCALE	11.2500
									IN. SQ. FT.

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

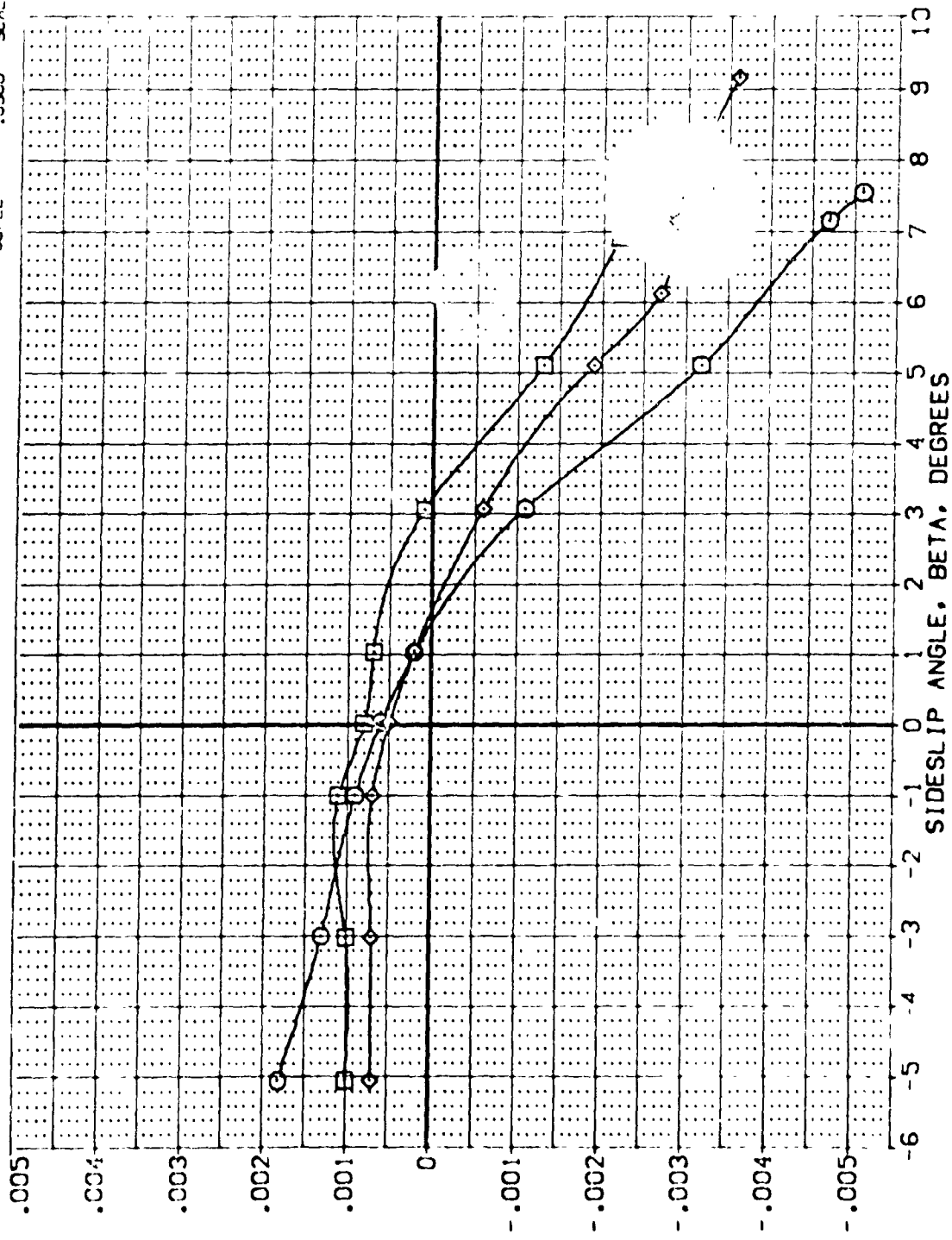


FIG. 25 SPEEDBRAKE EFFECTS

(M)MACH = 1.60

DATA SET SYMBOL. CONFIGURATION DESCRIPTION

(AERD05)	ARC 97-747 GAS38 B C M F VI V	NON.	RV/L
(AERD03)	ARC 97-747 GAS38 B C M F VI V	NON.	RV/L
(AERD04)	ARC 97-747 GAS38 B C M F VI V	NON.	RV/L

SQUARE: \square DIAMOND: \diamond

ALPHA	RUDDER	BDF LAP	SPOBRK	REFERENCE INFORMATION
10.000	.000	-11.700	75.000	SREF 2.4210 50. FT.
10.000	.000	-11.700	55.000	LREF 14.140 IN.
10.000	.000	-11.700	65.000	BREF 28.1004 IN.
				XMRP 32.3015 IN.
				YMRP .0000 IN.
				ZMRP 11.2500 IN.
				SCALE .0000

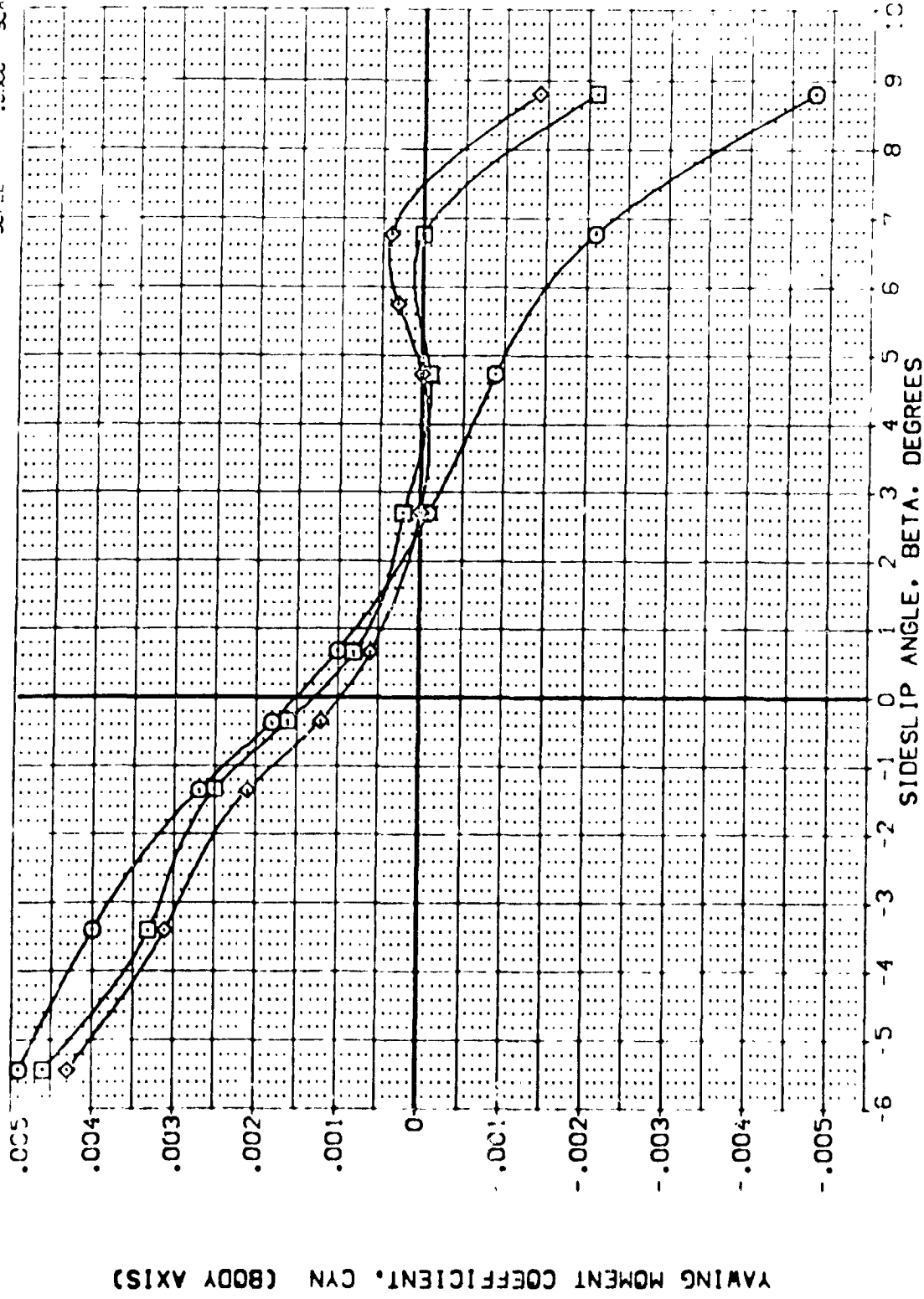


FIG. 25 SPEEDBRAKE EFFECTS

(B)YAC 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION NOM. RWL V NOM. RWL ALPHA RUDDER BDF LAP SPD BRK REFERENCE INFORMATION

(AEP026)	ARC 97-747 C-538 B C M F V	V	NOM. RWL	10.000	.000	-11.700	25.000	SREF	2.4210
(AEP027)	ARC 97-747 C-538 B C M F V	V	NOM. RWL	10.000	.000	-11.700	53.000	LREF	14.2440
(AEP040)	ARC 97-747 C-538 B C M F V	V	NOM. RWL	10.000	.000	-11.700	65.000	BRF	28.1004
								XMRP	32.3010
								ZMRP	11.2500
								SCALE	.0300

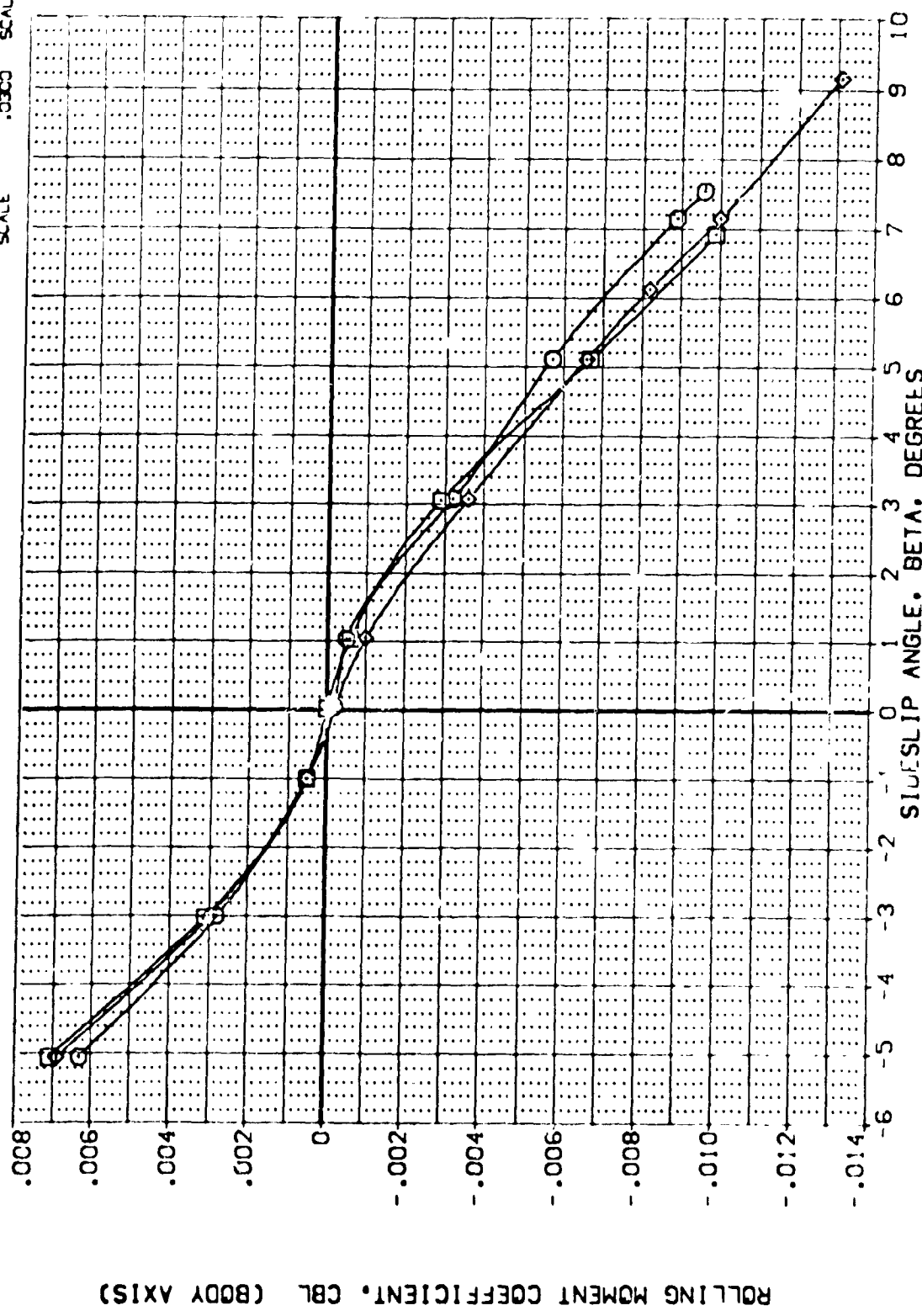


FIG. 25 SPEEDBRAKE EFFECTS

MACH = 1.60

DATA SET SYMBOL: (AEK075), (AEK013), (AEK040)

CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F V I V, ARC 97-747 DAS38 B C M F V I V, ARC 97-747 DAS38 B C M F V I V

NOT: RN/L, NOT: RN/L, NOT: RN/L

ALPHA: 10.000, 10.000, 10.000

RUDDER: .000, .000, .000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 55.000, 85.000

REFERENCE INFORMATION: SREF 2.4210 SQ.FT., LREF 14.2440, BREF 28.1004, YMRP 32.3010, ZMRP .0000, 7MRP 11.2500, SCALE .0300

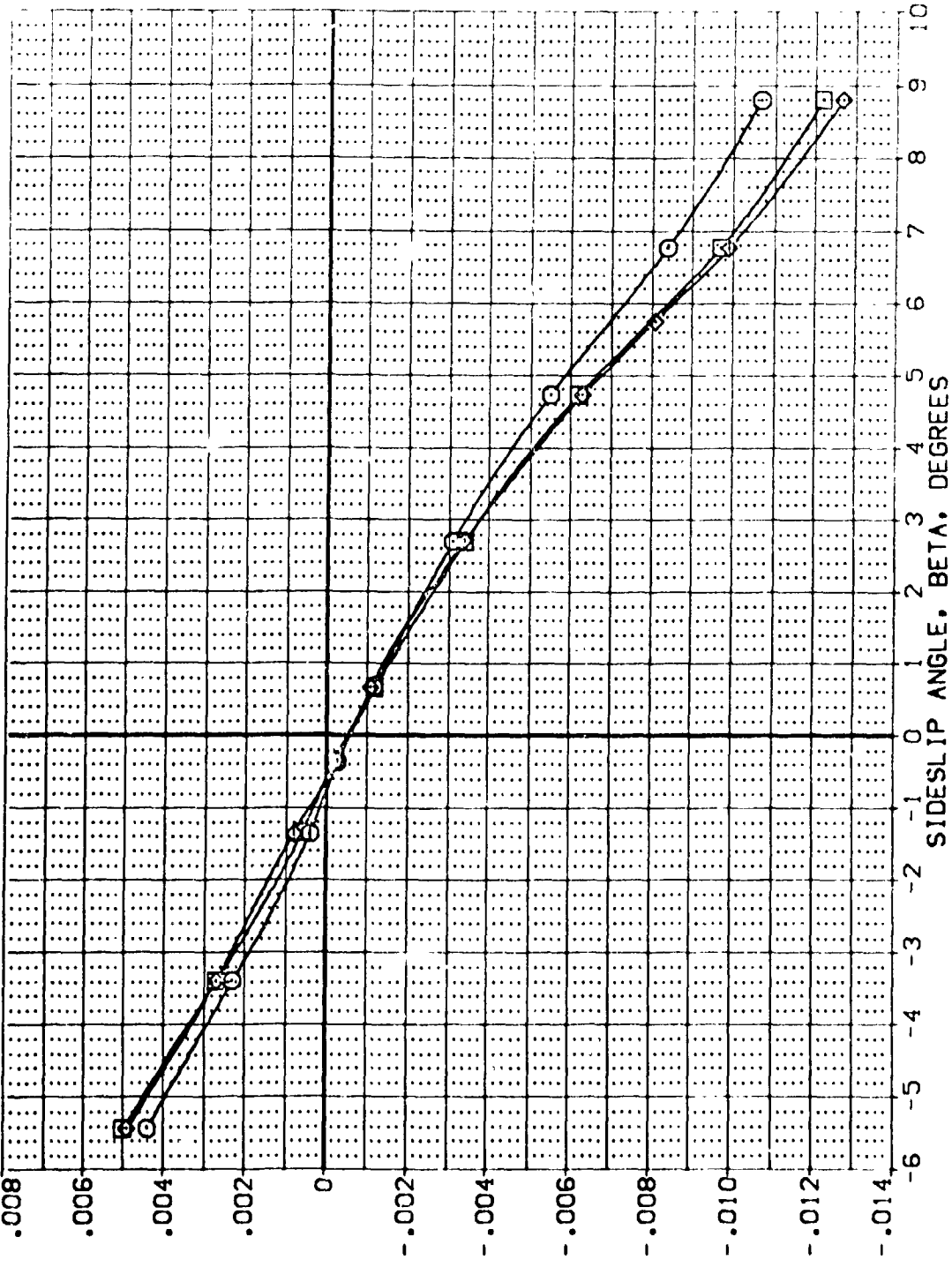


FIG. 25 SPEEDBRAKE EFFECTS

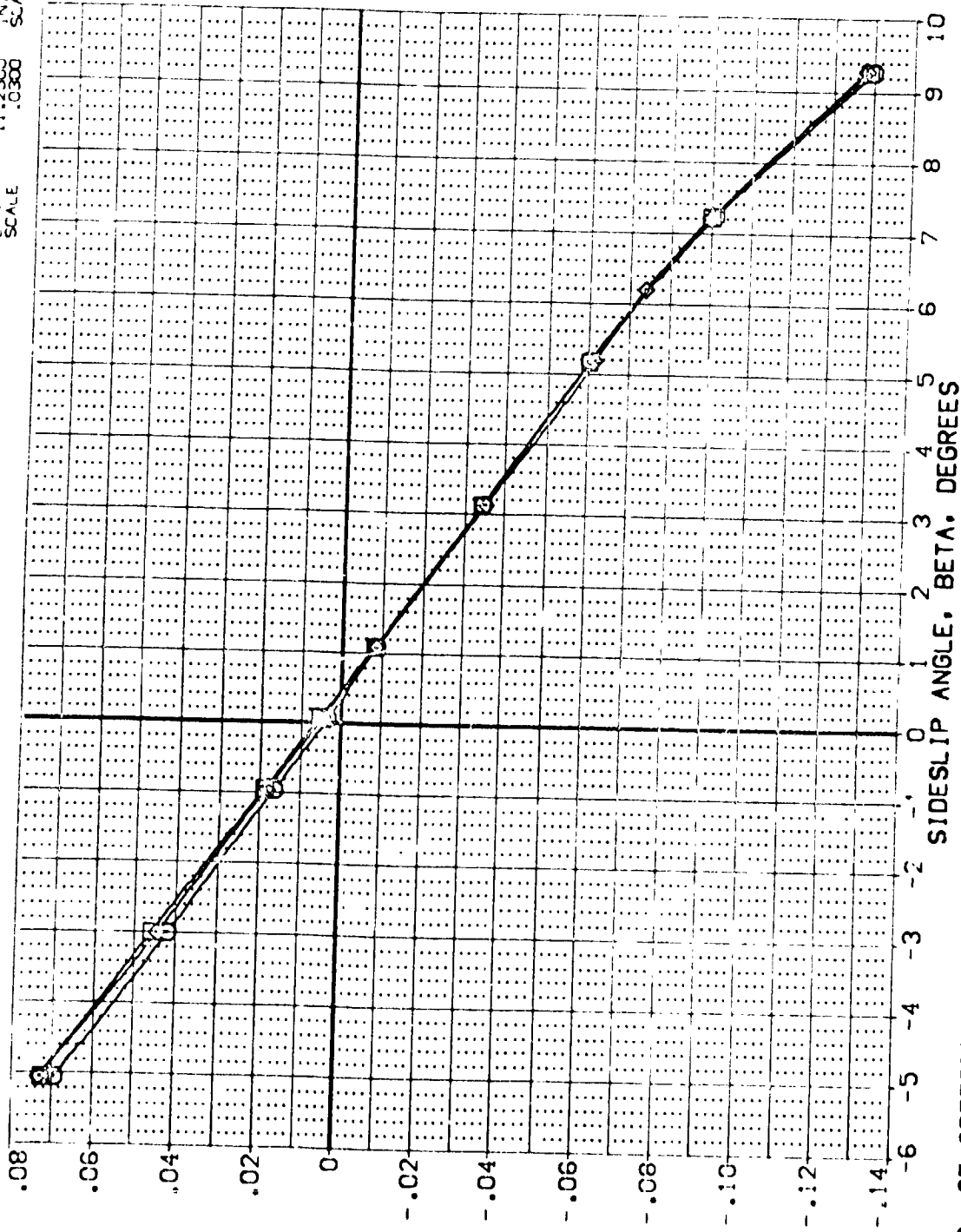
(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK077) (AEK077) ABC 97-747 B C M F V V NOM RV/L
 (AEK077) (AEK077) ABC 97-747 B C M F V V NOM RV/L
 (AEK077) (AEK077) ABC 97-747 B C M F V V NOM RV/L

ALPHA RUDDER BOFLAP SPOBRK
 20.000 .000 -11.700 25.000
 20.000 .000 -11.700 55.000
 20.000 .000 -11.700 85.000

REFERENCE INFORMATION:
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 YMRP 32.3010 IN.
 ZMRP 11.2300 IN.
 SCALE .0300 IN.



SIDE FORCE COEFFICIENT, CY

FIG. 25 SPEEDBRAKE EFFECTS

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEM027) ○ ARC 97-747 CAS38 B C M F V I V NOM: RV/L

(AEM014) ◇ ARC 97-747 CAS38 B C M F V I V NOM: RV/L

(AEM041) ◇ ARC 97-747 CAS38 B C M F V I V NOM: RV/L

ALPHA RUDDER BDF LAP SPODBRK

20.000 .000 -11.700 75.000

20.000 .000 -11.700 55.000

20.000 .000 -11.700 65.000

REFERENCE INFORMATION:

SREF 2.4210 SC.F.F.

LREF 14.2440

BREF 28.1004

YREF 32.3010

YREF 32.3010

ZREF 11.2600

SCALE .0300 SCALE

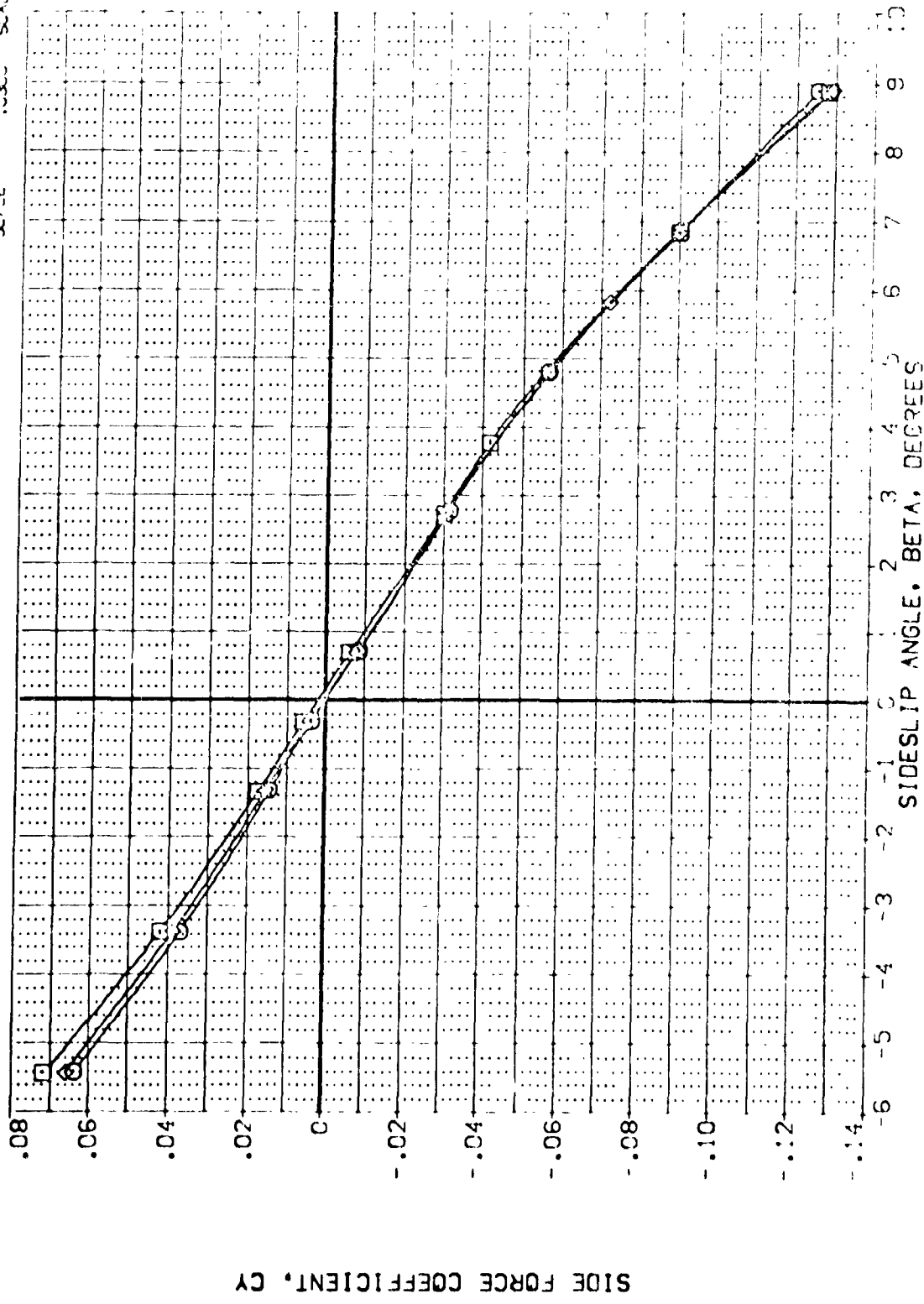


FIG. 25 SPEEDBRAKE EFFECTS

(B) VACH = 2.00



DATA SET 51600 CONFIGURATION DESCRIPTION: REFERENCE INFORMATION
 (A) 97-747 B C M F V Y NO. RV/L SQ. FT.
 (B) 97-747 C1538 B C M F V Y NO. RV/L
 (C) 97-747 C1538 B C M F V Y NO. RV/L
 (D) 97-747 C1538 B C M F V Y NO. RV/L
 ALPHA RUDER BOFLAP SPEEDBRK SPOBRK
 20.000 .000 -11.700 75.000
 20.000 .000 -11.700 55.000
 20.000 .000 -11.700 85.000
 SCALE SCALE
 11.7500 .0300
 2.4210
 14.2440
 28.1104
 32.3010
 .0000
 .0000
 .0000
 .0000

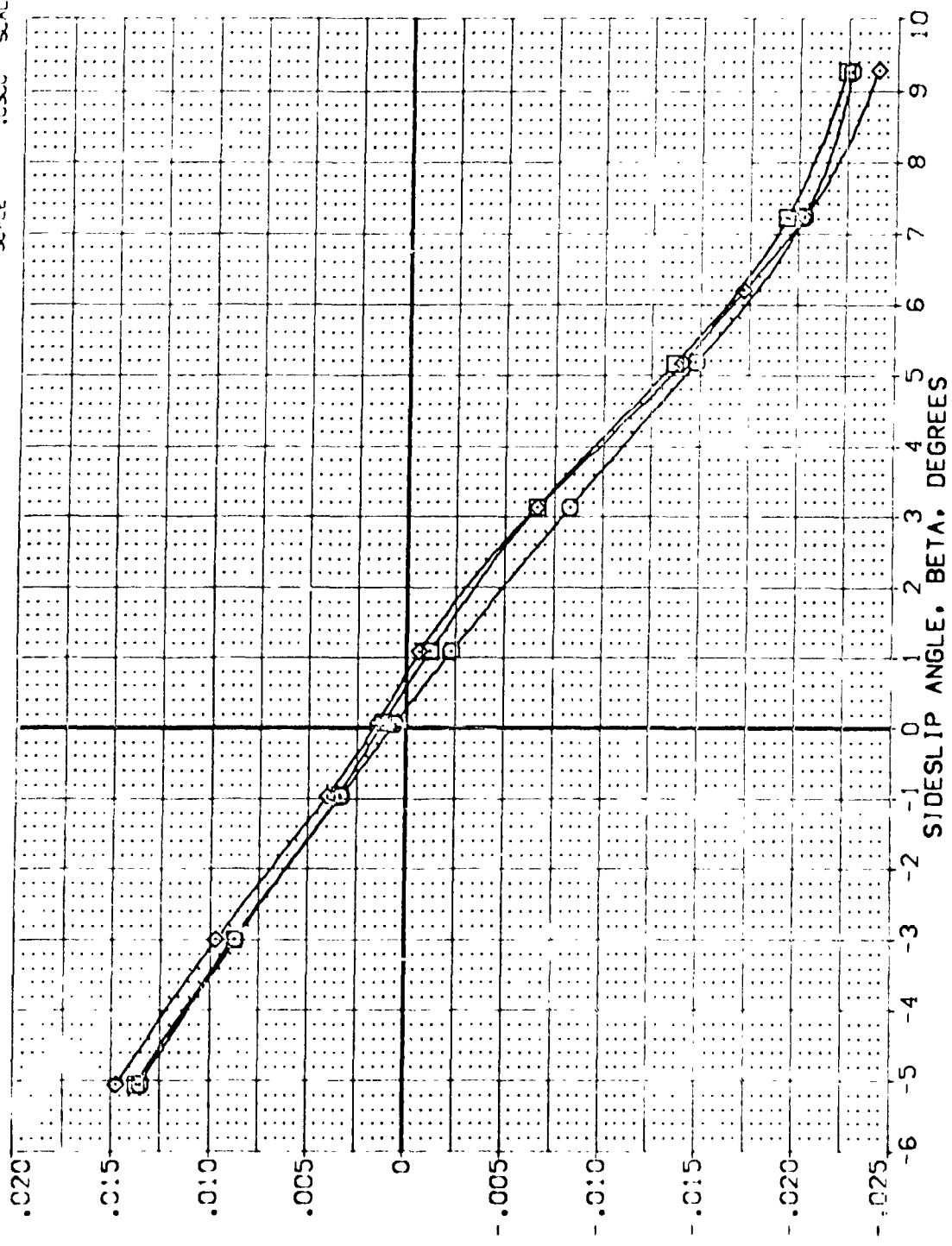


FIG. 25 SPEEDBRAKE EFFECTS
 (A) MACH = 1.60

DATA SET SYMBOL: (AEK027) (AEK014) (AEK041)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V I V ARC 97-747 OAS38 B C M F V I V ARC 97-747 OAS38 B C M F V I V

NON: RN/L V NON: RN/L V NON: RN/L V

ALPHA: 20.000 20.000 20.000
 RUDDER: .000 .000 .000
 BDF LAP: -11.700 -11.700 -11.700
 SPOBRK: 25.000 55.000 65.000

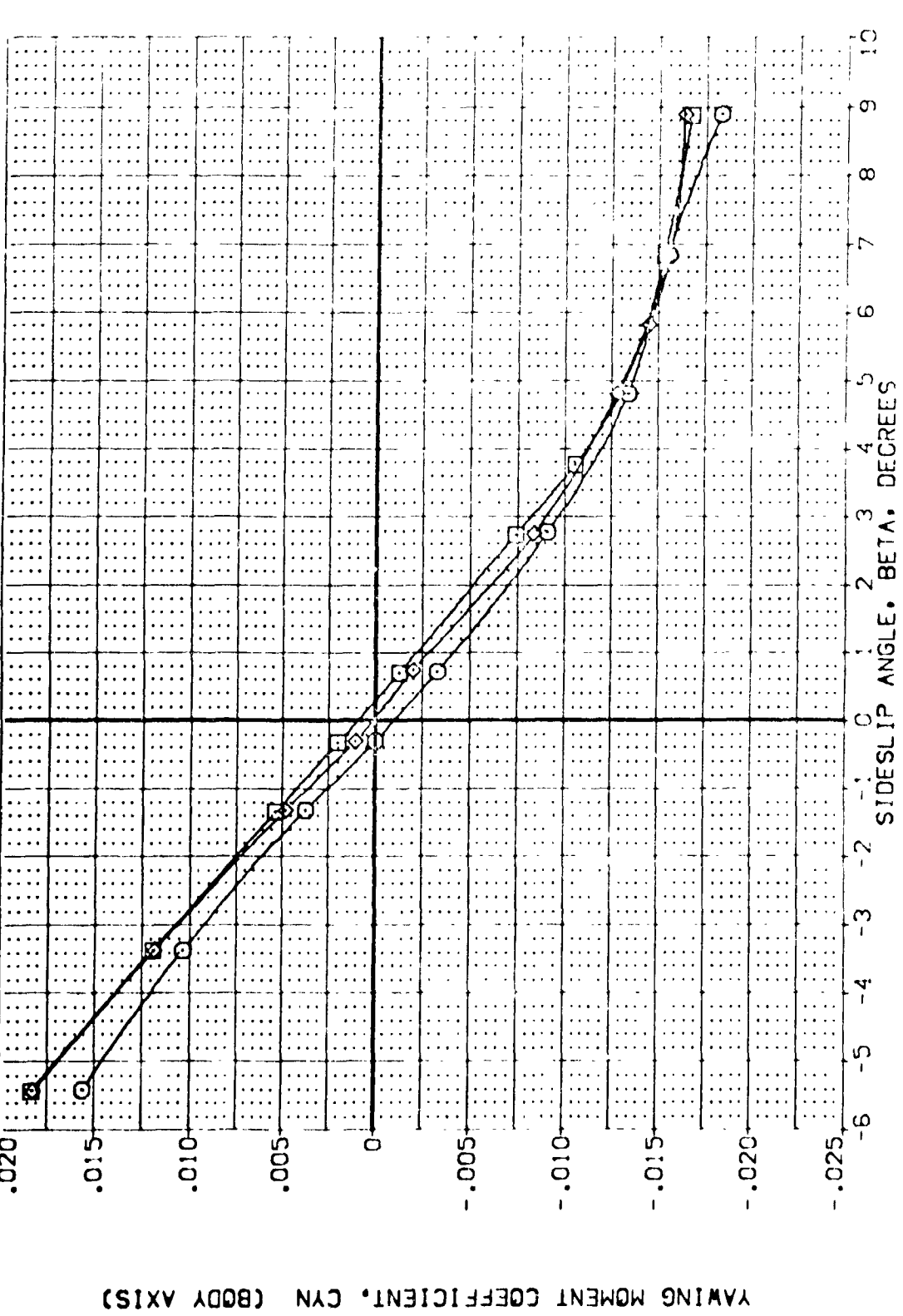


FIG. 25 SPEEDBRAKE EFFECTS

(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	SPOBRK	REFERENCE INFORMATION
{AESC77}	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	25.000	SREF 2.4210 SC.FT.
{AESC14}	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	55.000	LREF 14.2440
{AESC41}	ABC 97-747 C-538 B C M F V	20.000	.000	-11.700	85.000	BPREF 28.1004
						XMPR 32.3010
						YMPR 0.000
						ZMPR 11.2500
						SCALE .0300 SCALE

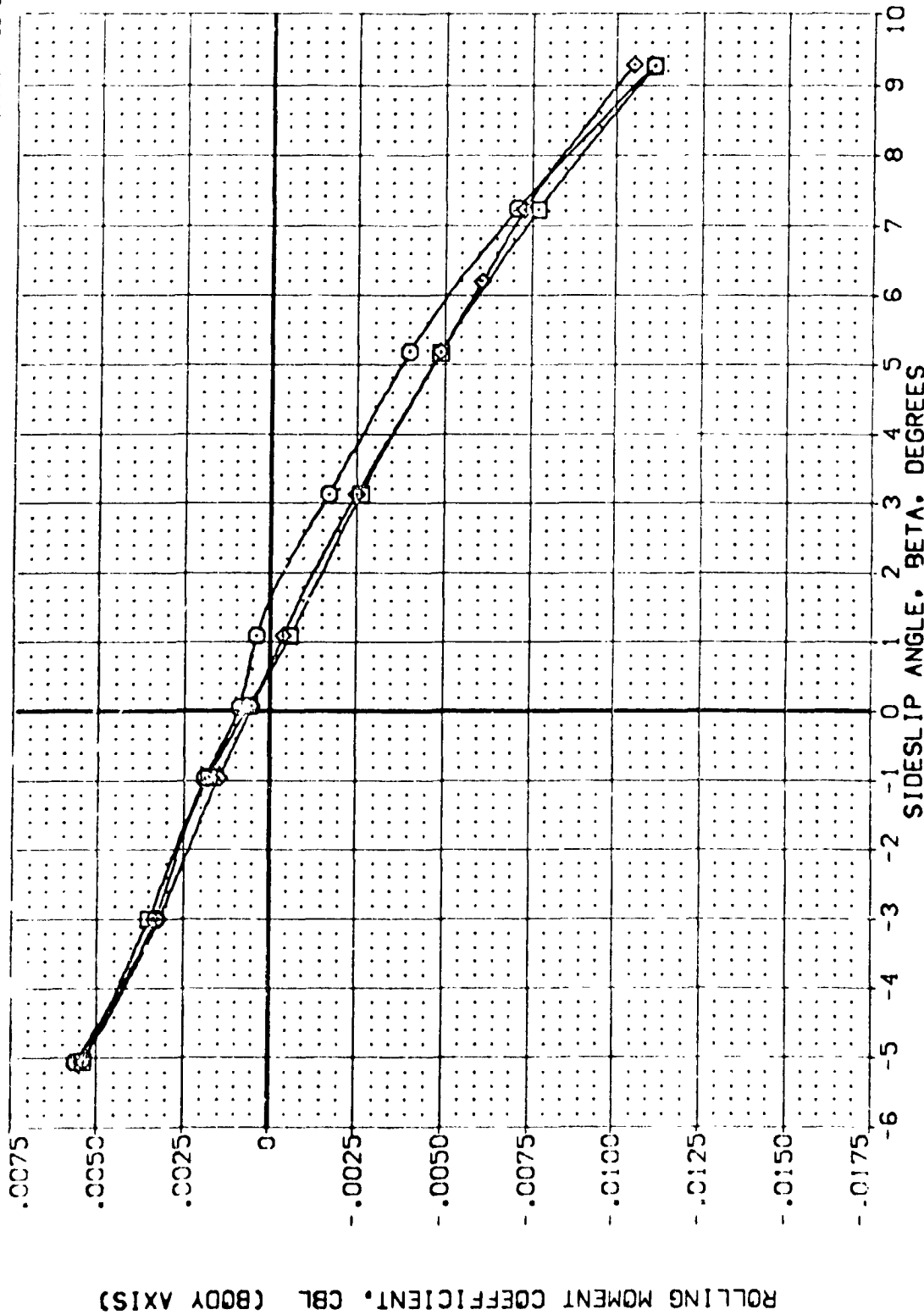
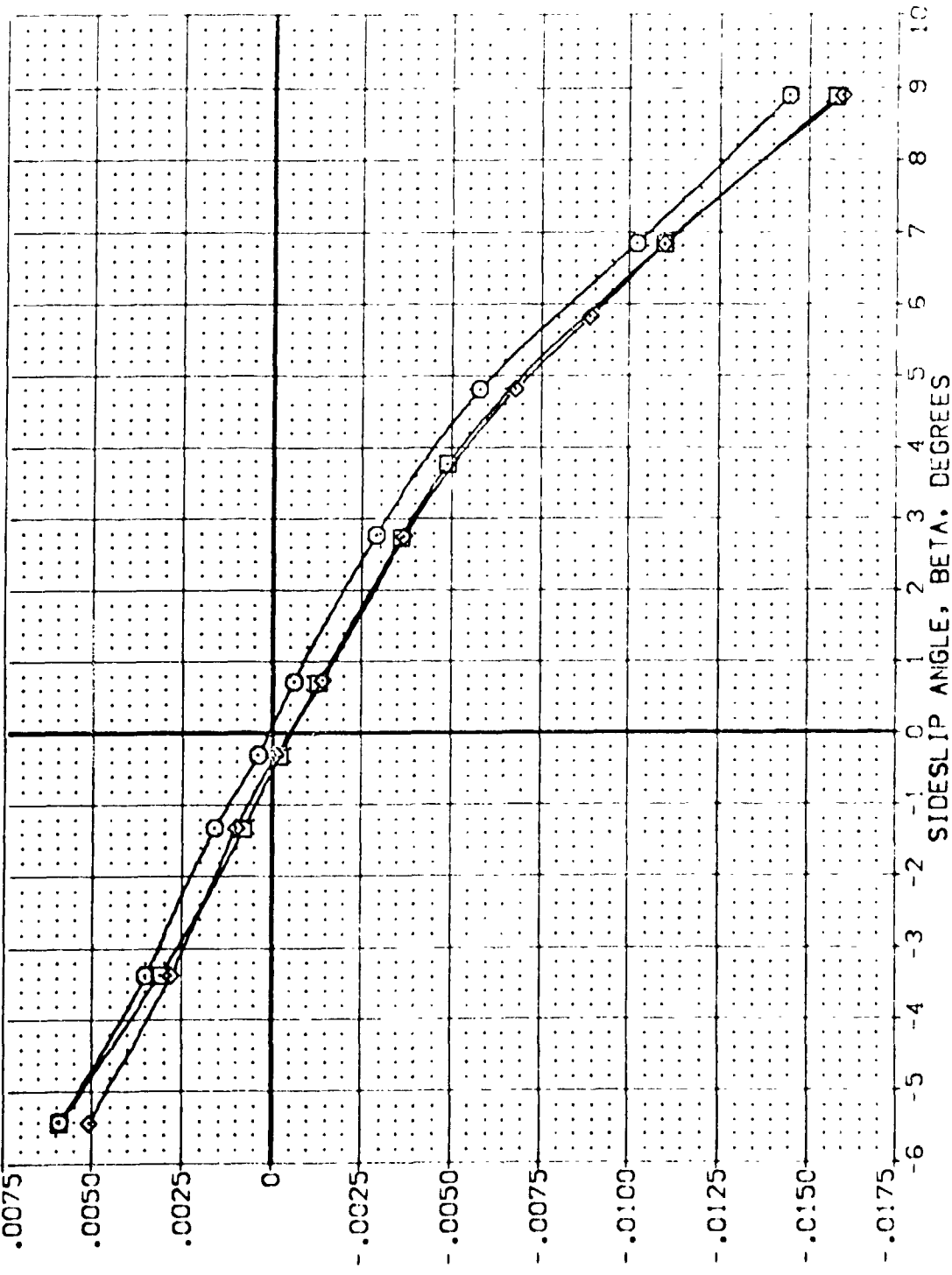


FIG. 25 SPEEDBRAKE EFFECTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER SPODBRK REFERENCE INFORMATION

(AEK077)	ARC 97-747 DAS38 B C M F V I V	20.000	.000	25.000	SREF 2.4210 SQ.FT.
(AEK014)	ARC 97-747 DAS38 B C M F V I V	20.000	.000	55.000	LREF 14.244C
(AEK041)	ARC 97-747 DAS38 B C M F V I V	20.000	.000	85.000	BREF 28.100A
					KMRP 32.301C
					VMRP .000C
					ZMRP 11.250C
					SCALE .0300



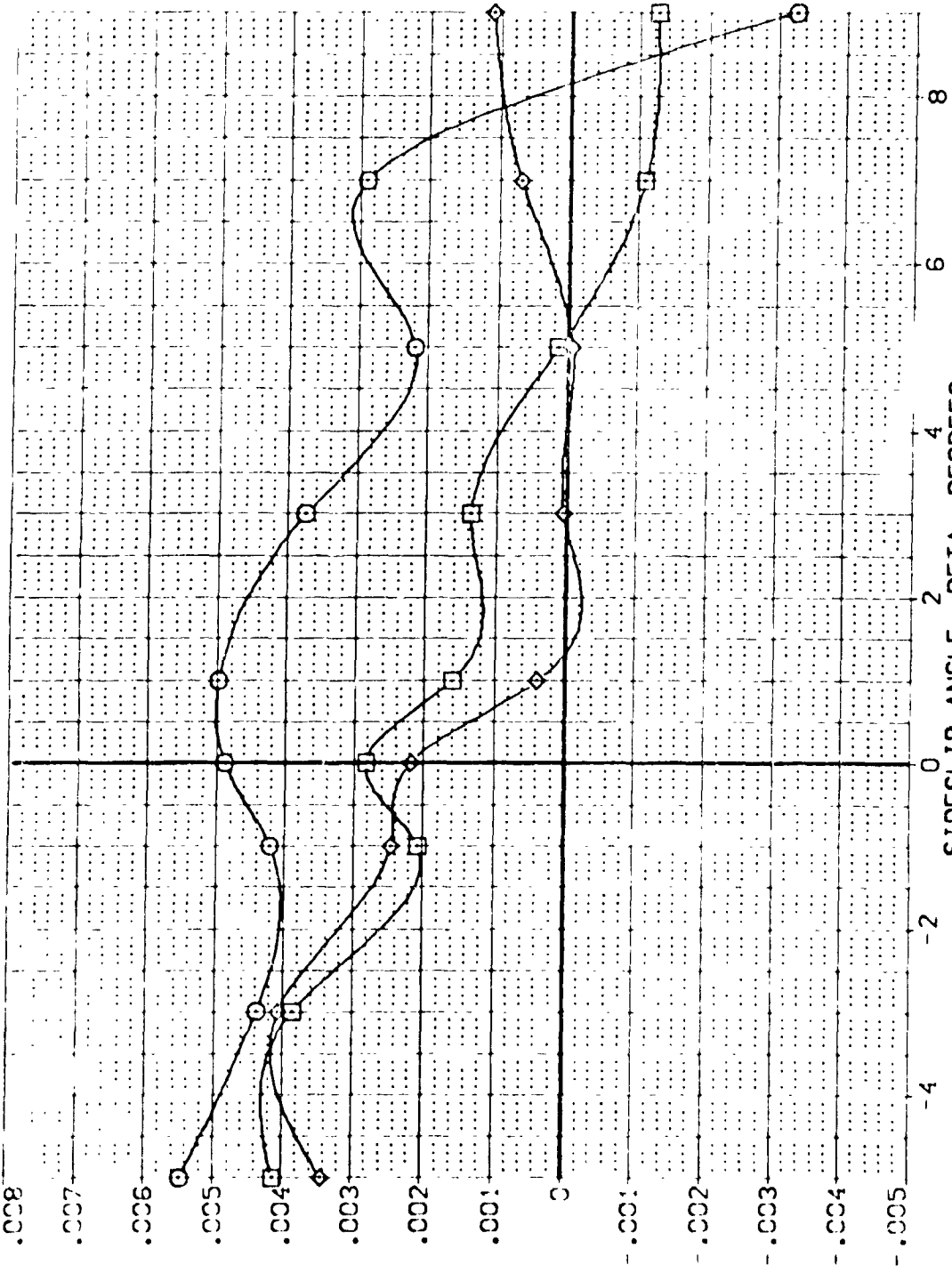
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

FIG. 25 SPEEDBRAKE EFFECTS

(B) MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOE LIP	ELEVON	REFERENCE INFORMATION
(1) (2) (3) (4)	ABC 97-747 B C M F V V V V	.000 10.000 20.000	.000 .000 .000	1.700 1.700 1.700	.000 .000 .000	2.4210 SC.FT. 14.2440 28.4880 32.5610 11.2500 SCALE
						SPRE SPL BPL XMBP YMBP ZMBP SCALE

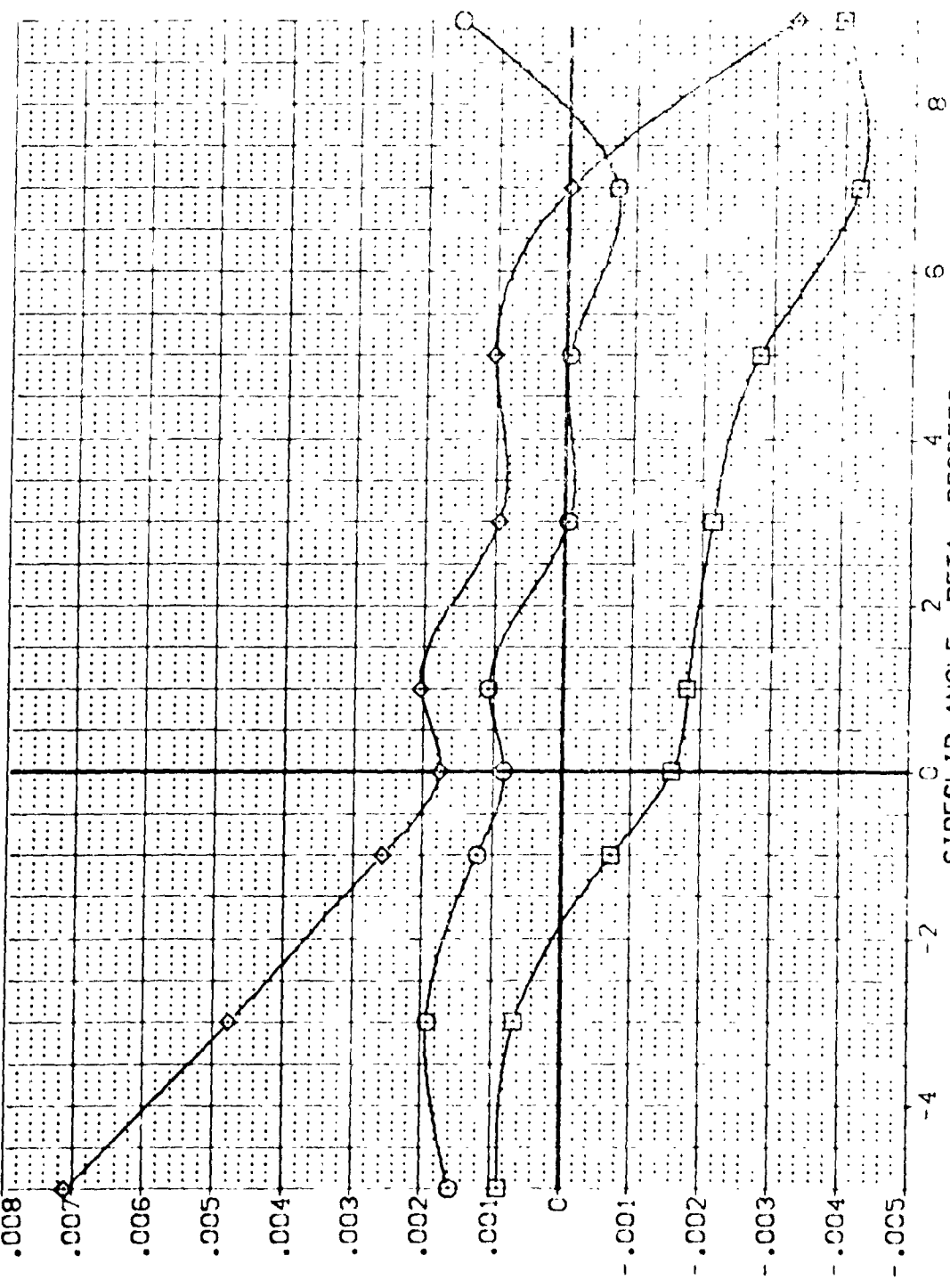


INCREMENTAL SIDE FORCE COEFFICIENT, DCY

FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (OSB= 55 - 25)

(A)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
{ VEO12 }	ARC 97-747 OAS38 B C M F V } V	.000	.000	-11.700	.000	SREF 2.4210 SC.FT.
{ VEO13 }	ARC 97-747 OAS38 B C M F V } V	10.000	.000	-11.700	.000	LREF 18.2440
{ VEO14 }	ARC 97-747 OAS38 B C M F V } V	20.000	.000	-11.700	.000	BREF 28.1000
						YMRP 30.3010
						ZMRP 0.0000
						SCALE 11.2500
						SCALE .0300



INCREMENTAL SIDE FORCE COEFFICIENT, DCY

SIDESLIP ANGLE, BETA, DEGREES

FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (OSB= 55 · 25)

(B)MACH = 2.00



DATA SET SYMBOL: REFERENCE INFORMATION:
 :VEK012) : SREF 2.4710 SC.F.T.
 :VEK013) : LREF 14.2440 IN.
 :VEK014) : BREF 28.1004 IN.
 : : YREF 37.3000 IN.
 : : ZREF 50.0000 IN.
 : : XSCALE 11.5000 SCALE
 : : YSCALE 11.5000 SCALE
 : : ZSCALE 11.5000 SCALE

ALPHA RUDDER BOFLAP ELEVON
 .000 .000 .000
 10.000 .000 .000
 20.000 .000 .000

NON. RV/L
 NON. RV/L
 NON. RV/L

CONFIGURATION DESCRIPTION
 ARC 97-747 CAS38 B C M F V I V
 ARC 97-747 CAS38 B C M F V I V
 ARC 97-747 CAS38 B C M F V I V

INCREMENTAL YAWING MOMENT COEFFICIENT, DCYN

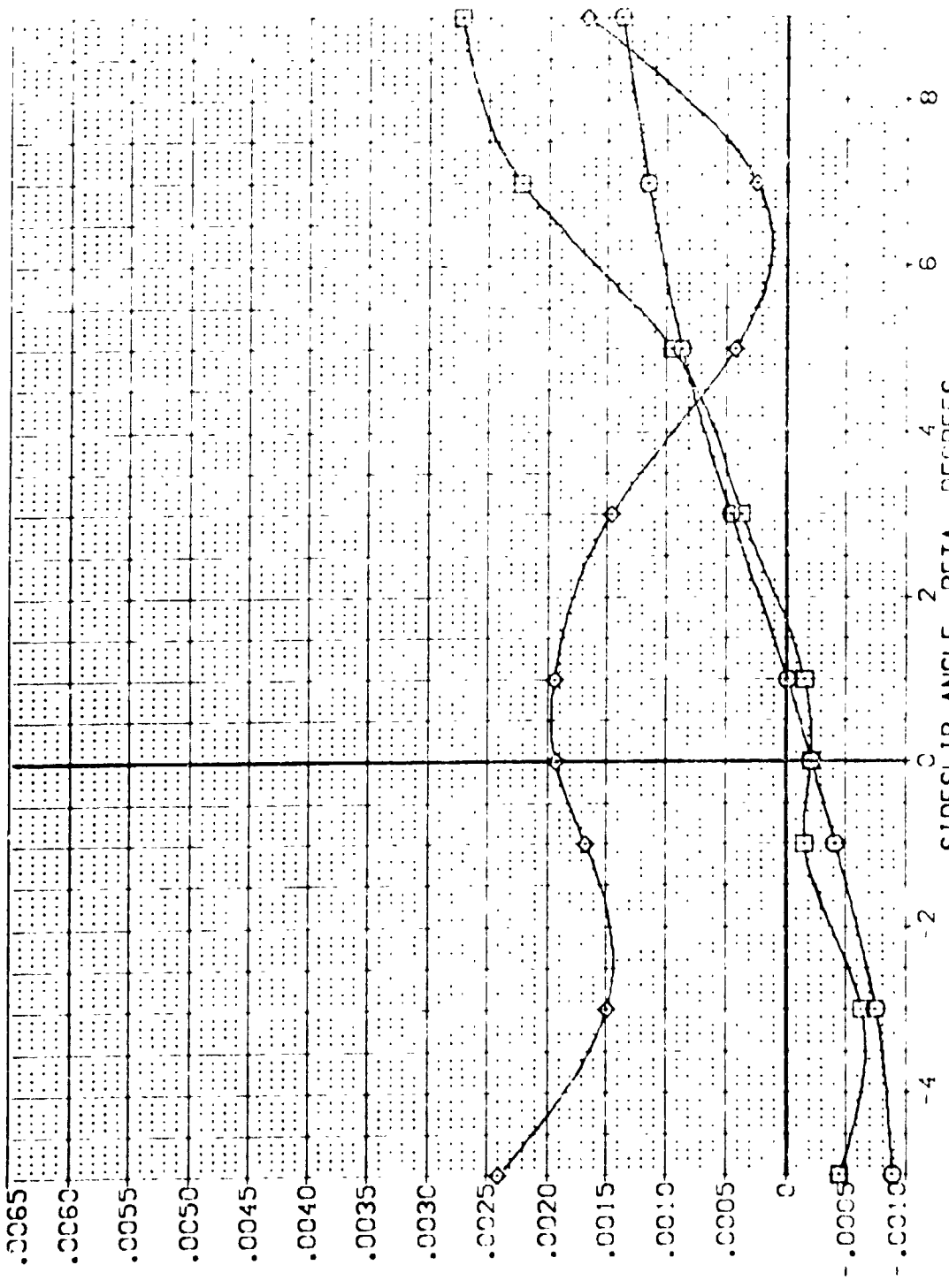


FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (DSB= 55 - 25)

(B)MACH = 2.00



DATA SET NO. CONFIGURATION DESCRIPTION
 1. APC 97-747 CAS33 B C M F V V N000, RV/L
 2. APC 97-747 CAS33 B C M F V V N000, RV/L
 3. APC 97-747 CAS33 B C M F V V N000, RV/L

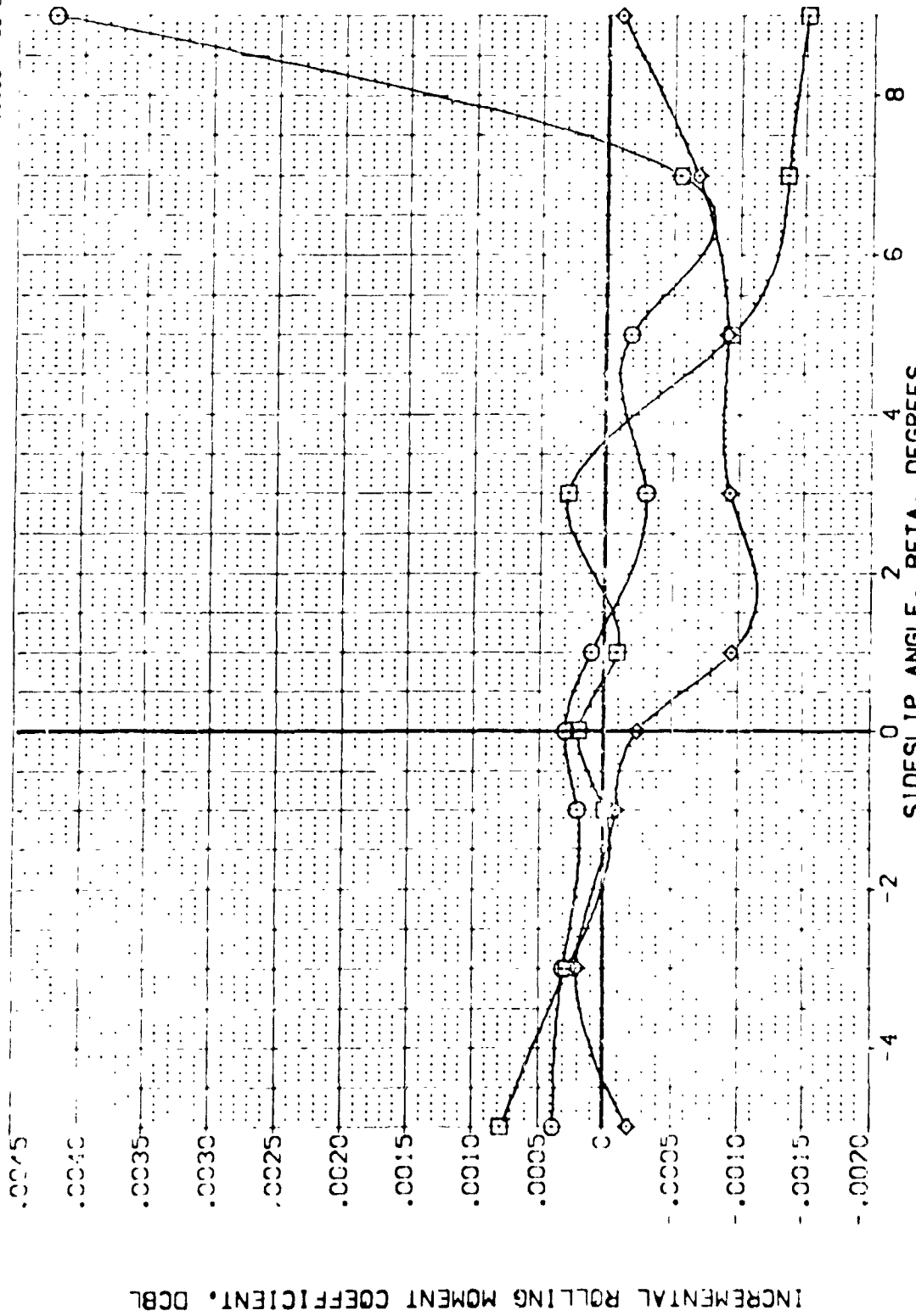
ALPHA .000
 .000
 10.000
 20.000

RUDDER .000
 .000
 .000
 .000

BOFLAP 111.700
 111.700
 111.700
 111.700

ELEVON .000
 .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRD 32.3010 IN.
 YMRD 11.2500 IN.
 ZMRD 11.2500 IN.
 SCALE .0300



INCREMENTAL ROLLING MOMENT COEFFICIENT, DCBL

SIDESLIP ANGLE, BETA, DEGREES

FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (OSB= 55 - 25)

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(1) ARC 97-747 CAS38 B C M F V V V
 (2) ARC 97-747 CAS38 B C M F V V V
 (3) ARC 97-747 CAS38 B C M F V V V

NON: RN/L
 NOT: RN/L

ALPHA .000
 .000
 10.000
 20.000

RUDDER .000
 .000
 .000

BUFLAP .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 28.1004
 YREF 30.3000
 ZREF 11.2500
 SCALE 10300

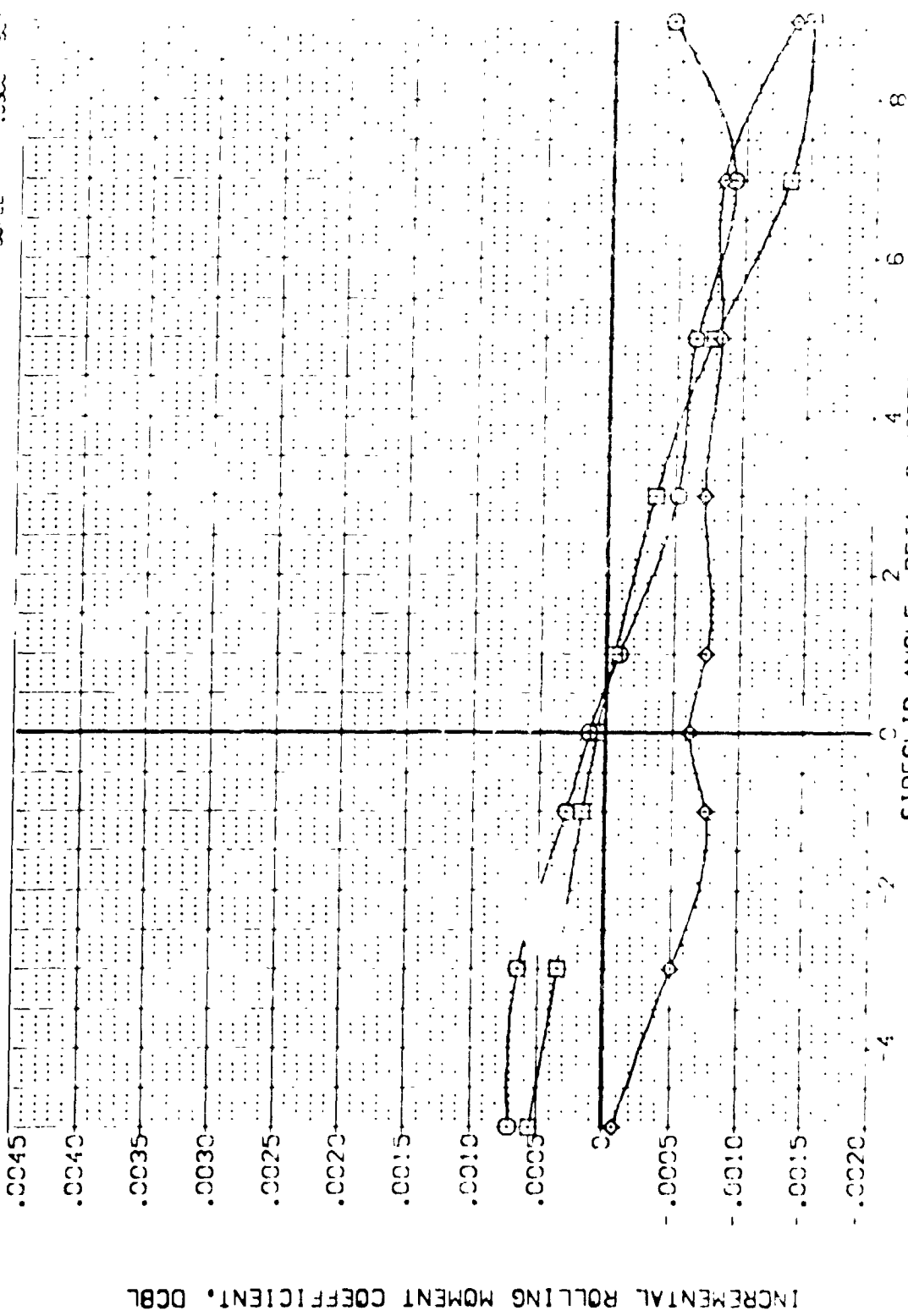


FIG. 26 INCREMENTAL SPEEDBRAKE EFFECTS (OSB= 55 - 25)

(B) VAC = 2.00



DATA SET SYMBOL: (VEK038), (VEK040), (VEK041)

CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F VI V, ARC 97-747 DAS38 B C M F VI V, ARC 97-747 DAS38 B C M F VI V

ALPHA: .000, 10.000, 20.000

RUDDER: .000, .000, .000

BOFLAP: -11.700, -11.700, -11.700

ELEVON: .000, .000, .000

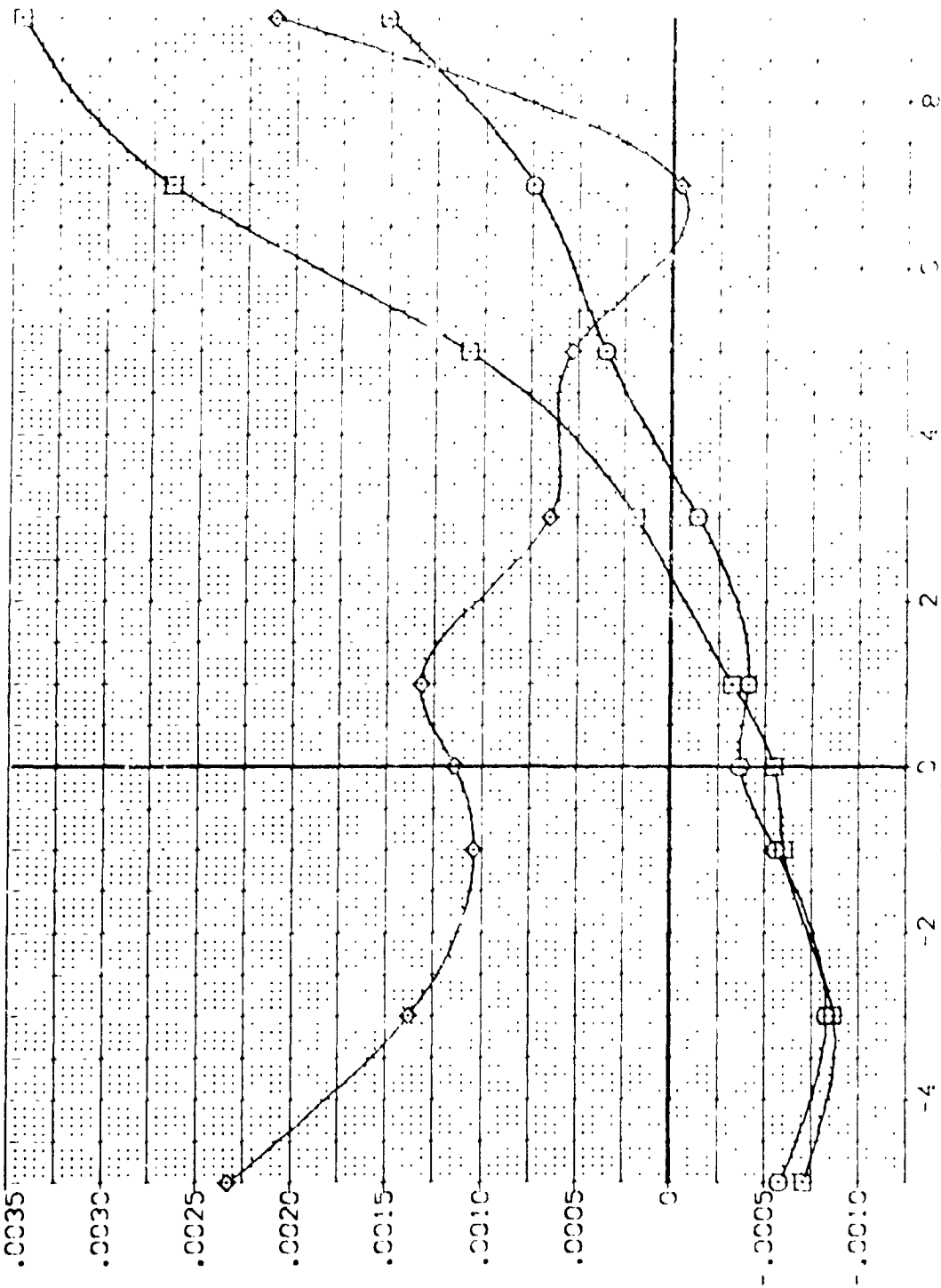
REFERENCE INFORMATION: SREF: 2.4210, BREF: 14.244C, GREF: 28.1004, YMRP: 32.3010, ZMRP: .0000, SCALE: 11.2500



FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS, (DSB= 85 - 75)
 (B)MACH = 2.00



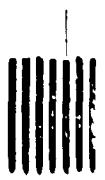
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOF LAP	ELEV (%)	REFERENCE INFORMATION
(REF328)	ARC 97-747 CAS38 B C M F V	.000	.000	111.700	.000	SPE: 2.421
(REF340)	ARC 97-747 CAS38 B C M F V	10.000	.000	111.700	.000	DEF: 4.242
(REF341)	ARC 97-747 CAS38 B C M F V	20.000	.000	111.700	.000	SPR: 28.500
						TRD: 37.500
						W: 11.200
						SCALE: 10000



INCREMENTAL YAWING MOMENT COEFFICIENT, DCYN

FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS, (DSB= 85 -25)

(B)MAC = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(VEK038)	ALL 97-747 DAS38 B C M F V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
(VEK040)	ALL 97-747 DAS33 S C M F V	10.000	.000	-11.700	.000	REF 14.2440
(VEK041)	APC 87-747 DAS38 B C M F V	20.000	.000	-11.700	.000	BPSC 28.1004
						XMRD 32.3010
						YMRD .0000
						ZMRD 11.2500
						SCALE .0300

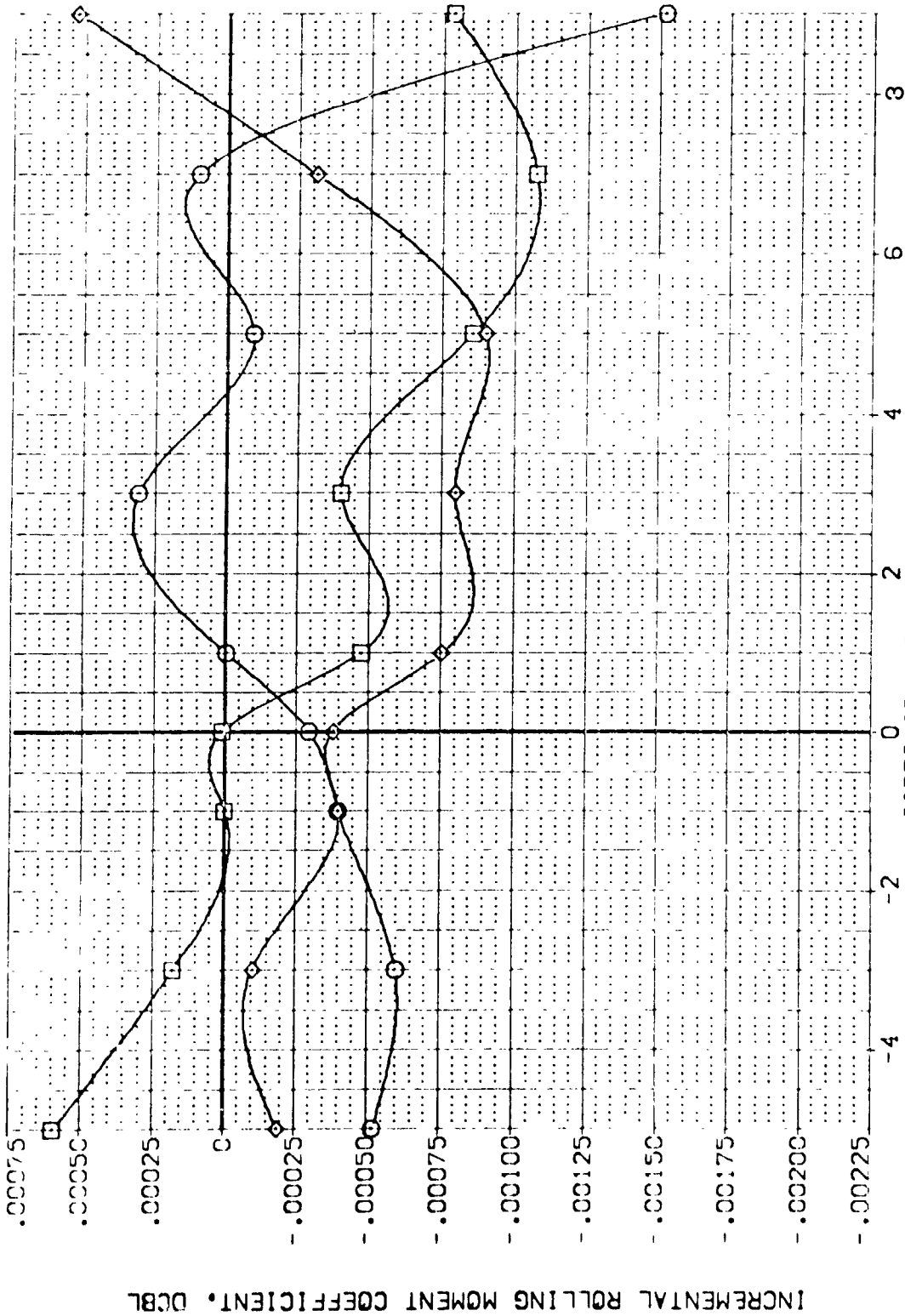


FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS. (DSB= 85 -25)

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BOFLAP ELEVON REFERENCE INFORMATION

(VE038)	ARC 97-747 DA538 B C M F V1 V	0.000	.000	-11.700	.000	SREF	2.4210	50. FT.
(VE040)	ARC 97-747 DA538 B C M F V1 V	10.000	.000	-11.700	.000	LRPF	14.2440	
(VE041)	ARC 97-747 DA538 B C M F V1 V	20.000	.000	-11.700	.000	BRPF	28.1004	
						YMRP	32.3010	
						ZMRP	.0000	
						SCALE	11.2500	
							.0300	

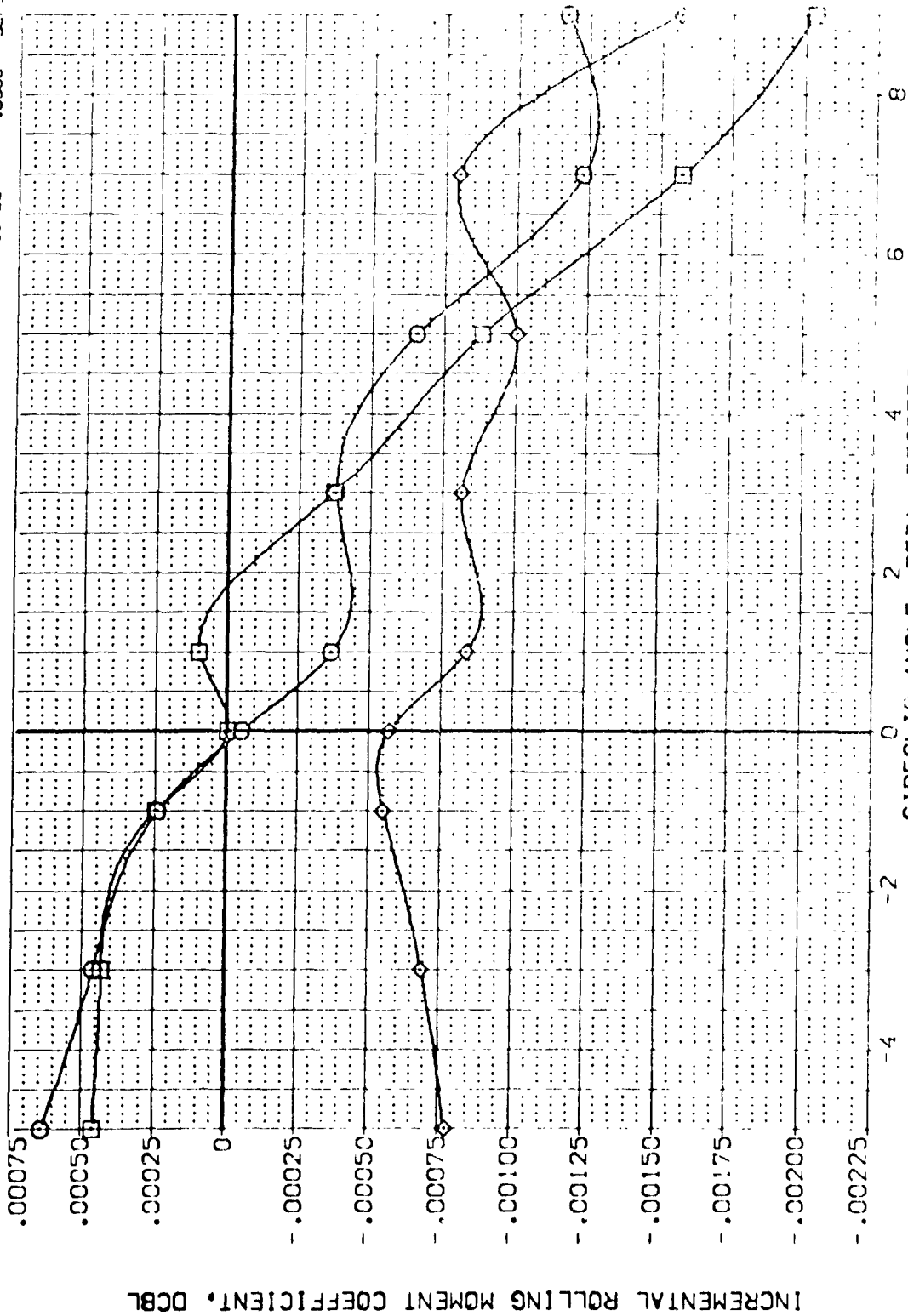


FIG. 27 INCREMENTAL SPEEDBRAKE EFFECTS. (DSB= 85 -25)

(3)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

ALPHA	RUDDER	BOFLAP	ELEVON	SPEED	2.4210	SCALE
.000	.000	.700	.000	DEF	14.2440	SCALE
10.000	.000	.700	.000	YMRD	28.1000	SCALE
20.000	.000	.700	.000	ZMRD	32.3000	SCALE
				SCALE	11.2000	SCALE

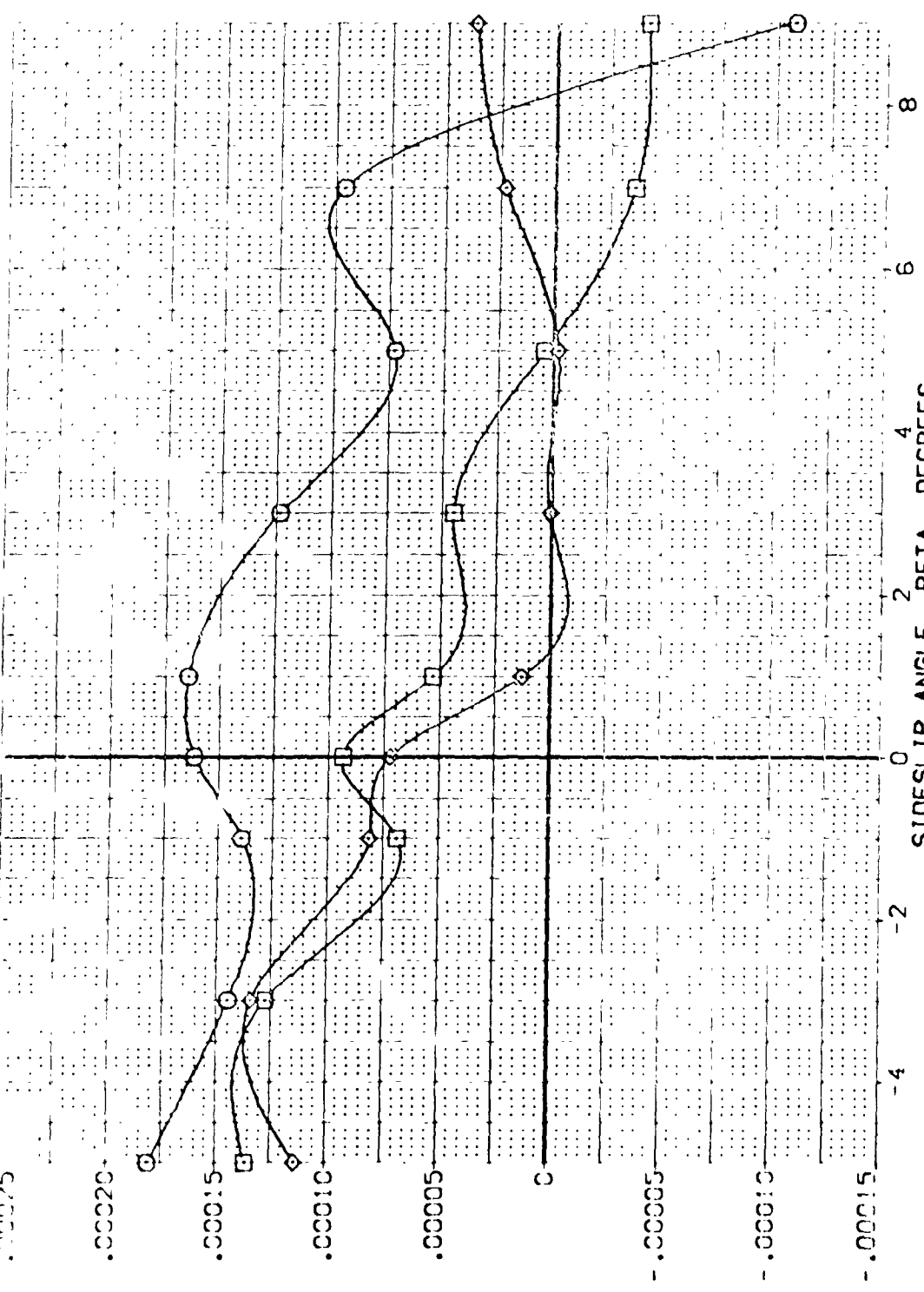


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

(M)MAC = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP012) ○ ARC 97-747 0A538 B C M F V1 V NOM: RV/L
 (VEP013) ○ ARC 97-747 0A538 B C M F V1 V NOM: RV/L
 (VEP014) ○ ARC 97-747 0A538 B C M F V1 V NOM: RV/L

ALPHA RUDDER BOFLAP ELEVON
 .000 .000 .700 .000
 10.000 .000 .700 .000
 20.000 .000 .700 .000

REFERENCE INFORMATION:
 SPEE 2.4710 SC.FT.
 SREF 14.2740
 SPREF 28.5000
 YMRP 32.3000
 YMRD .0000
 ZMRD 11.2500
 SCALE .0300

SIDE FORCE COEFF. DERIV. WITH SPEED BRAKE DEF., DCY/DS. PER DEG

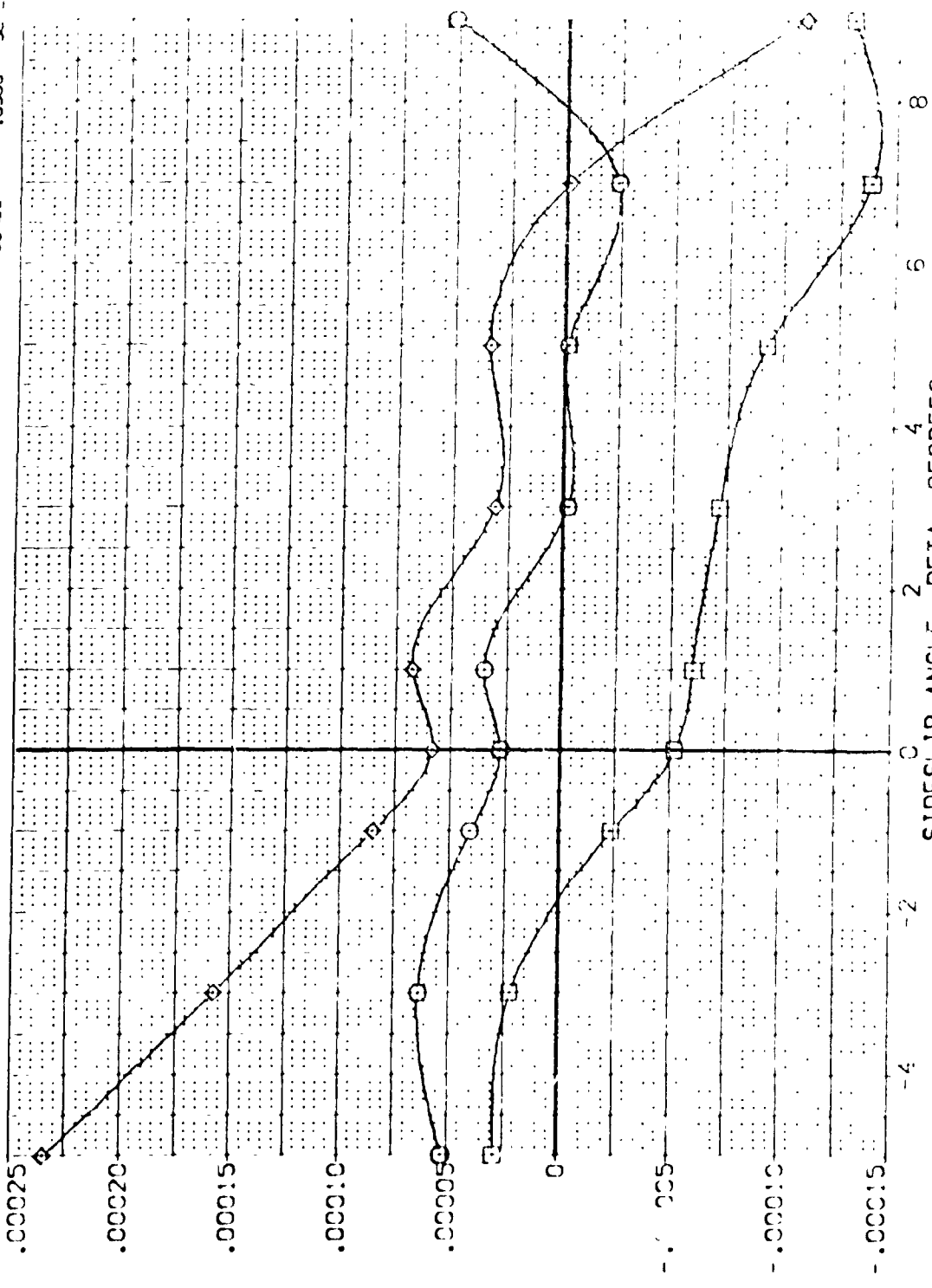


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(3)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

SYMBOL	CONFIGURATION	DESCRIPTION
ABC	97-747	24538 B C M E V
DEF	97-747	24538 B C M E V
GHI	97-747	24538 B C M E V

REFERENCE INFORMATION:

PARAMETER	VALUE	UNIT
SPEED	242.0	KT
REF. ELEV	14.244	DEGS
REF. YAW	28.004	DEGS
REF. ROLL	32.301	DEGS
REF. Z-POS	11.000	FT
REF. Z-VEL	11.250	FT/SEC
SCALE	1.000	

ALPHA: 0.000, 10.000, 20.000
 RUDDER: 0.000, 1.000, 2.000
 ELEVON: 0.000, 1.000, 2.000

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DYNDS. PER DEG

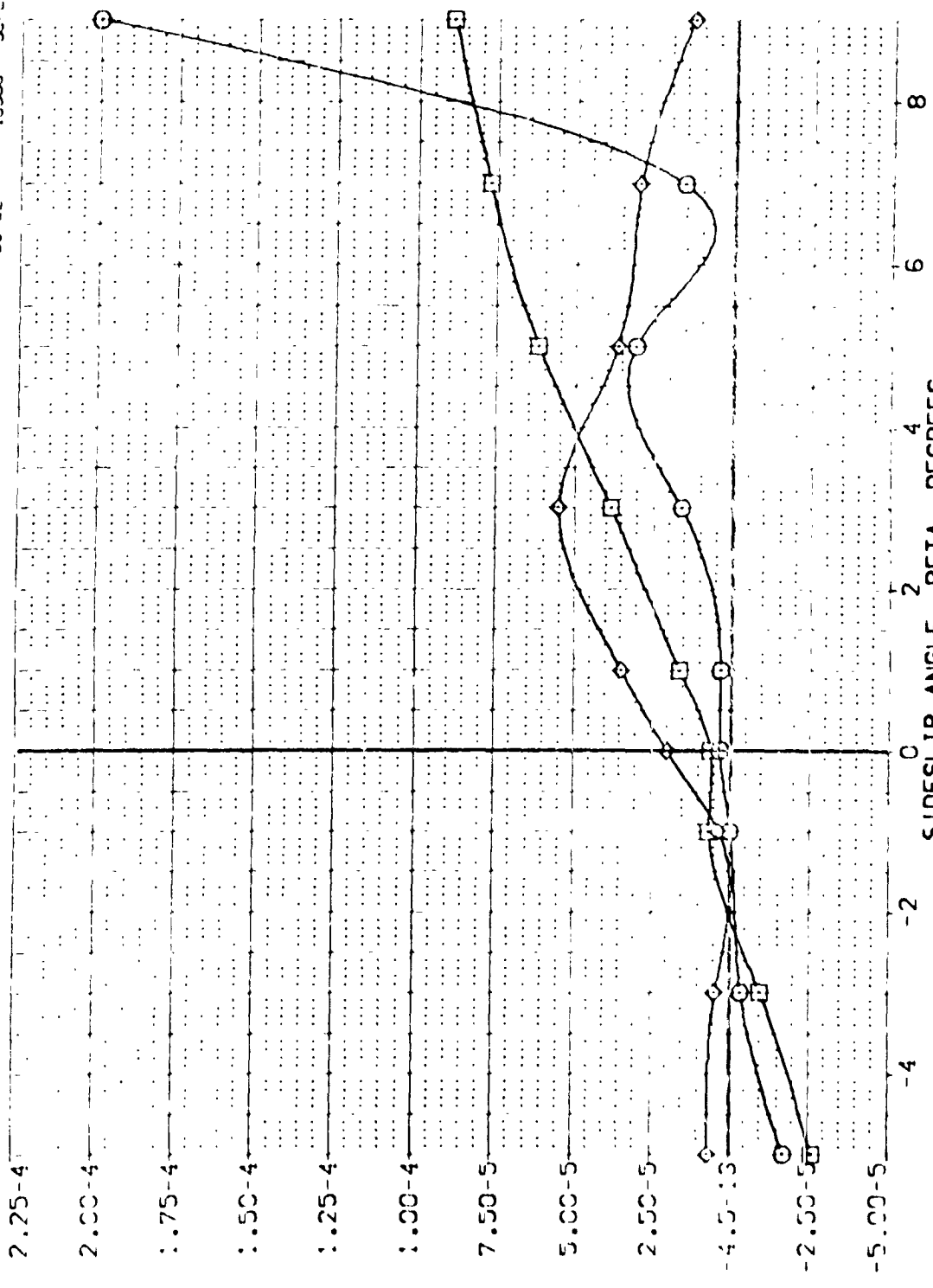


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION:
 [VE-C12] ○ ARC 97-747 CA538 B C M F V V V NOM: RV/L
 [VE-C13] ◇ ARC 97-747 CA538 B C M F V V V NOM: RV/L
 [VE-C14] ◇ ARC 97-747 CA538 B C M F V V V NOM: RV/L

ALPHA .000
 .000
 10.000
 20.000

RUDDER .000
 .000
 .000
 .000

BD FLAP .700
 .700
 .700
 .700

ELEVON .000
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2.421C SC.F.T.
 SREF 14.244C SC.F.T.
 SREF 28.1004 SC.F.T.
 SREF 32.301C SC.F.T.
 SREF 32.301C SC.F.T.
 ZMPD 11.200C SCALE
 SCALE 10.000

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCYNDS. PER DEG

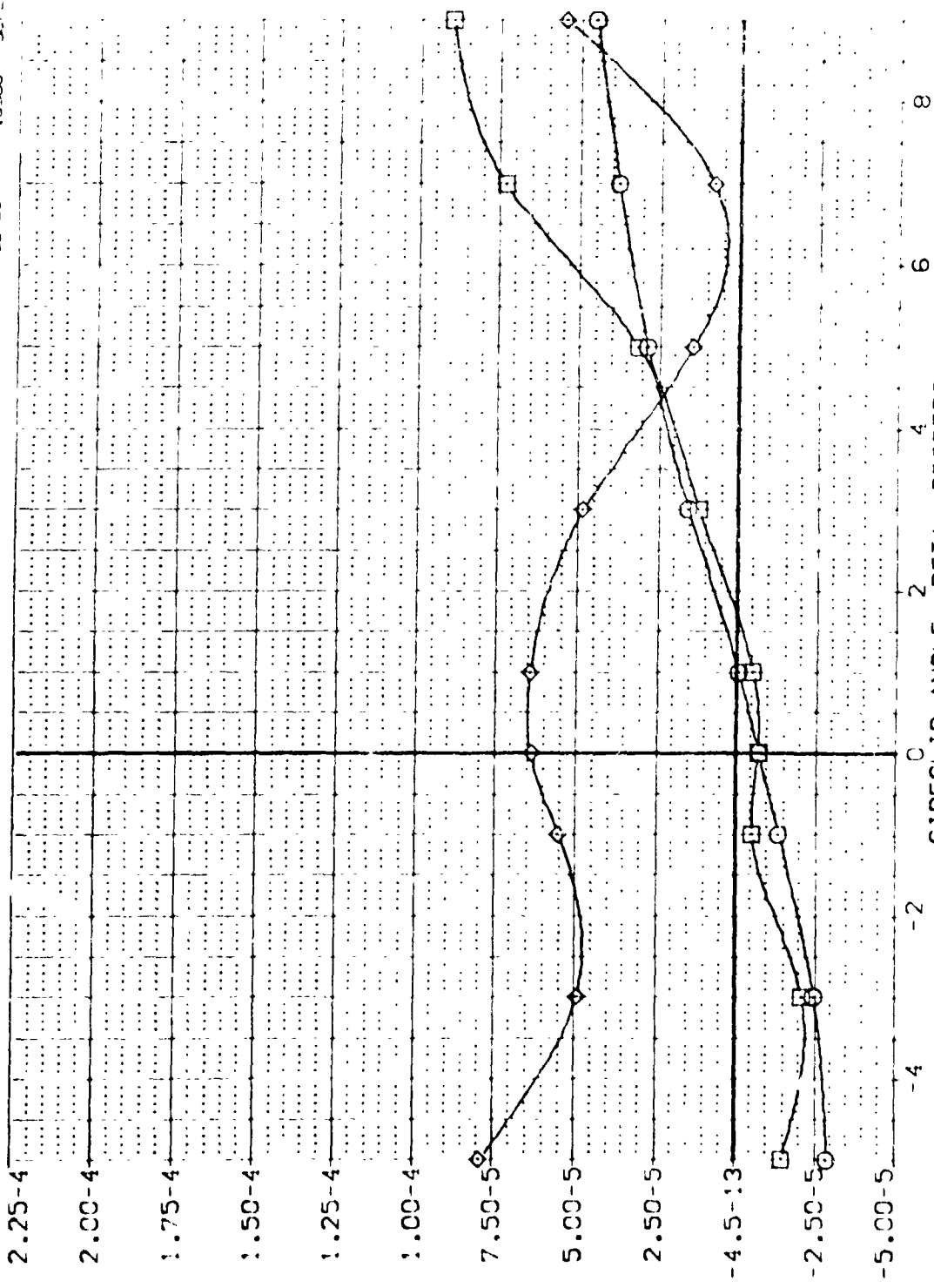


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)
 (3)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REF 2) □ ARC 97-747 0-538 B C M F V V NOM. RW/L
 (REF 3) □ ARC 97-747 0-538 B C M F V V NOM. RW/L
 (REF 4) □ ARC 97-747 0-538 B C M F V V NOM. RW/L

ALPHA RUDDER BOFLAP ELEVON
 .000 .000 .000 .000
 10.000 .000 .000 .000
 20.000 .000 .000 .000

REFERENCE INFORMATION
 SPREF 2.421C 50. FT.
 LPREF 14.244C
 BRPF 28.10C
 XMRP 37.3010
 YMRP .0000
 ZMRP .0000
 SCALE 11.2500
 SCALE .0300

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCBLDS. PER DEG

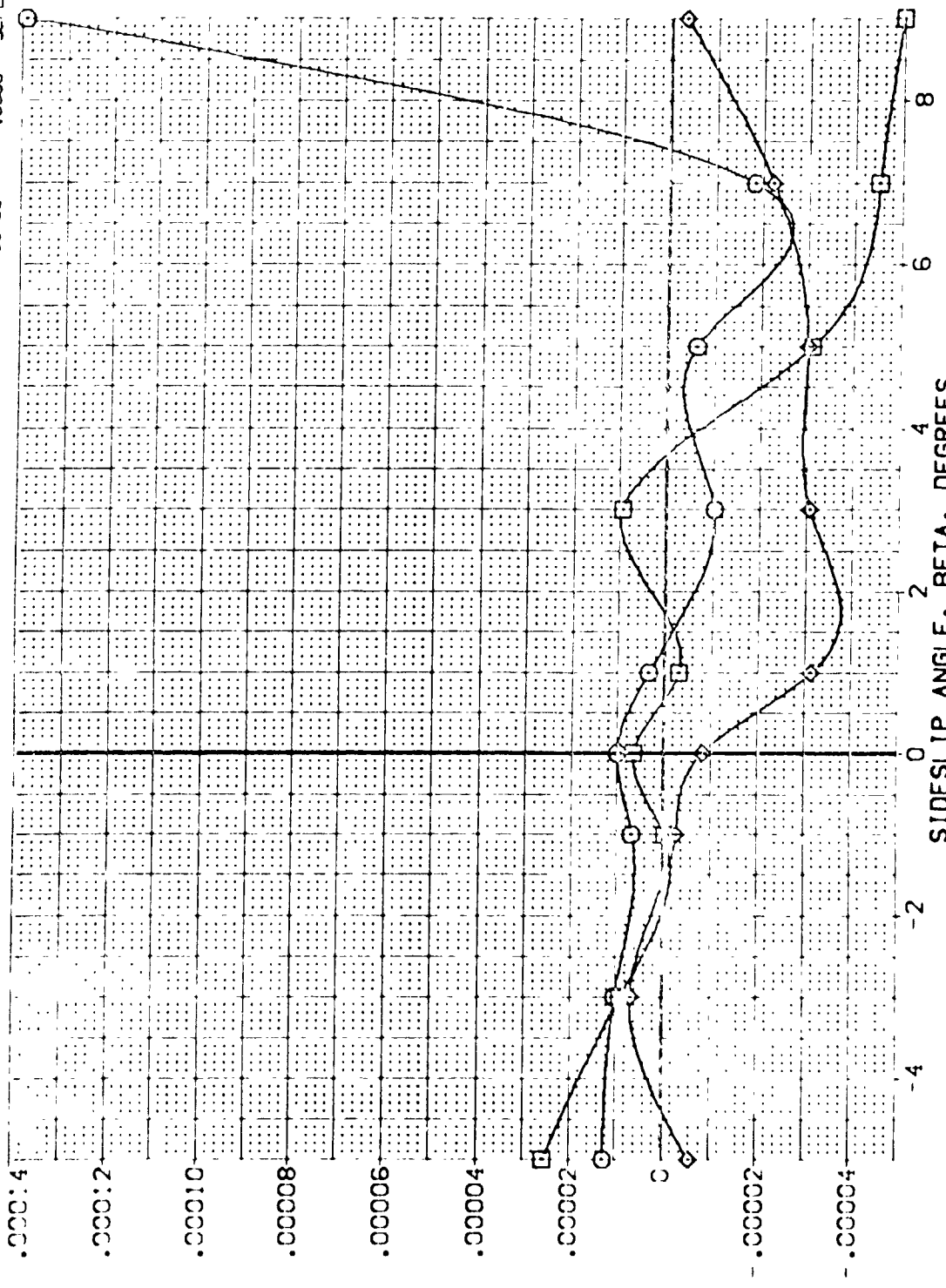


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP012) ○ ARC 97-747 DAS38 B C M F V1 V NOT: RV/L
 (VEP013) □ ARC 97-747 DAS38 B C M F V1 V NOT: RV/L
 (VEP014) ◇ ARC 97-747 DAS38 B C M F V1 V NOT: RV/L

ALPHA .000
 .10 .000
 .20 .000
 RUDDER .000
 .000
 .000
 BOFLAP -11.700
 -11.700
 -11.700
 ELEVON .000
 .000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.4880 IN.
 TREF 32.5850 IN.
 YREF 11.5250 IN.
 ZREF 11.5250 IN.
 SCALE 1.03%

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCBLDS. PER DEG

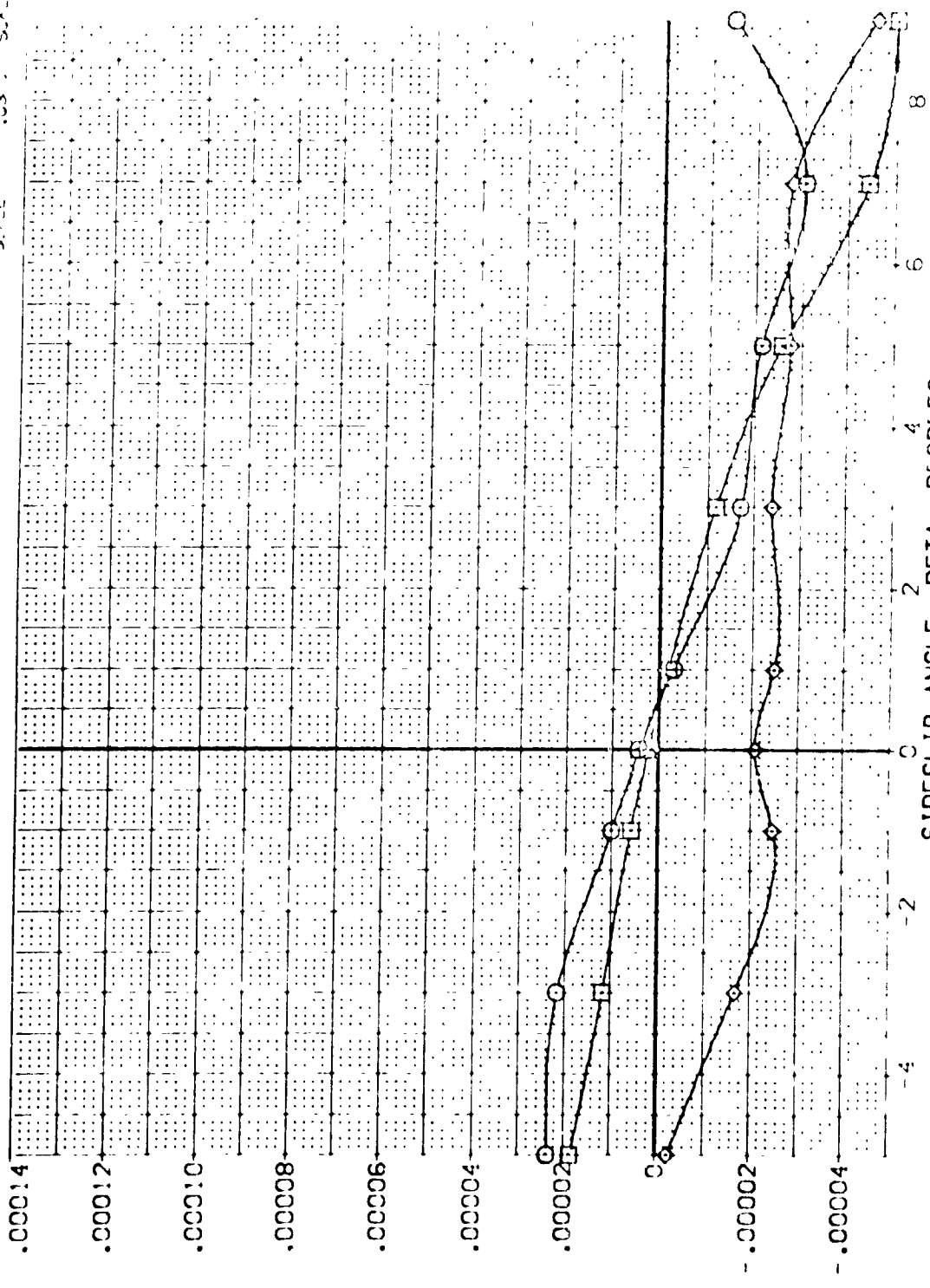


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B)MACH = 2.00



DATA SET 5 Y80L CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(1) (VEFC.2)	ABC 97-747 CAS38 B C M F V	V	NO.1	RN/L	ALPHA	RUDDER	ROFLAP	ELEVON	SPEED	2.4210	50. FT.
(2) (VEFC.3)	ABC 97-747 CAS38 B C M F V	V	NO.2	RN/L	.000	.000	.700	.000	REF	14.2740	30. FT.
(3) (VEFC.4)	ABC 97-747 CAS38 B C M F V	V	NO.3	RN/L	10.000	.000	.700	.000	BPES	28.1004	30. FT.
(4) (VEFC.4)	ABC 97-747 CAS38 B C M F V	V	NO.4	RN/L	20.000	.000	.700	.000	XMRP	32.3010	30. FT.
									YMRP	.0000	30. FT.
									ZMRP	11.2500	30. FT.
									SCALE	.0300	SCALE

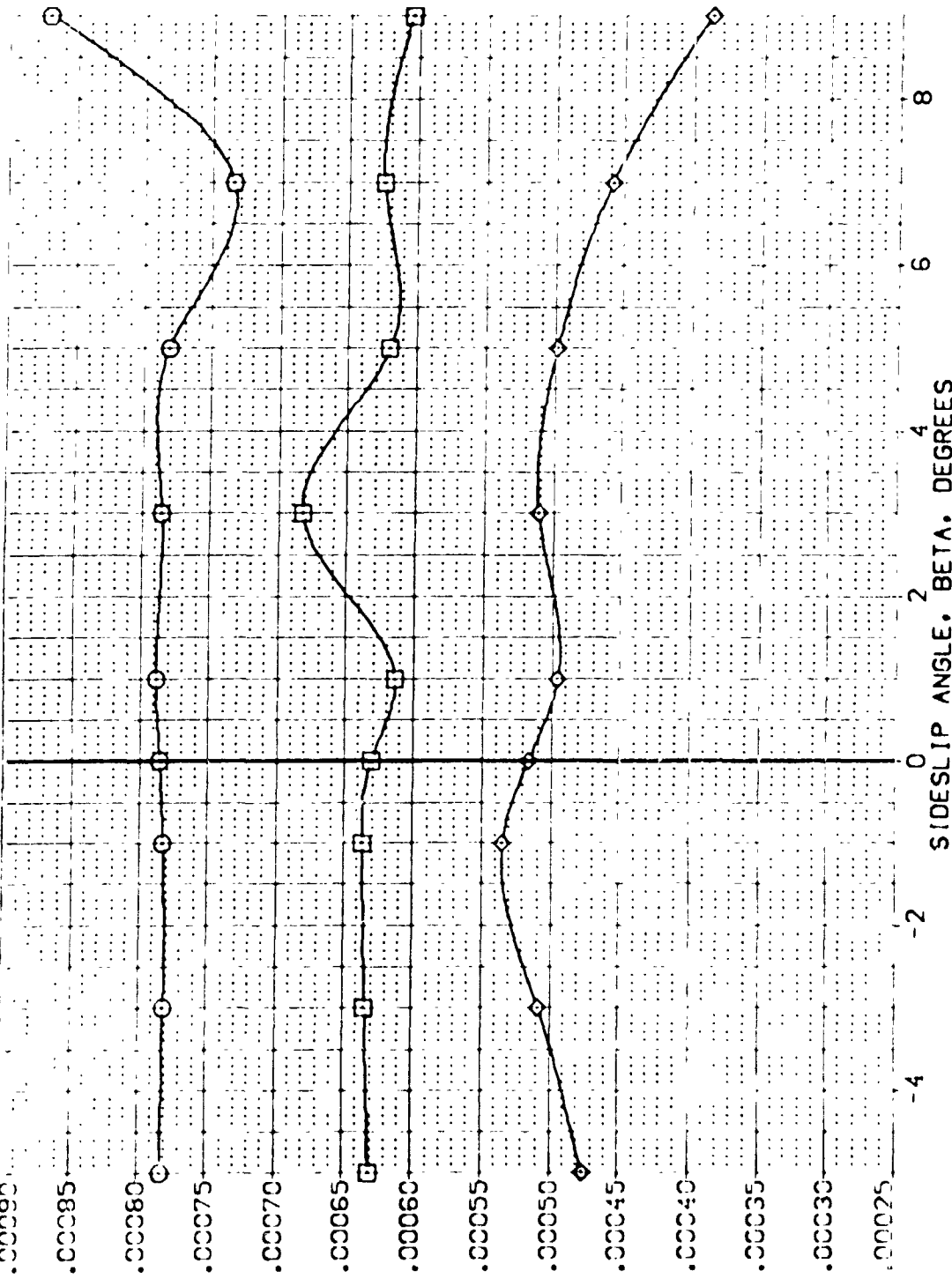


FIG. 28 SPEEDBRAKE DERIVATIVES. 55 DEGS. DEFLECT.(BASELINE = 25 DEGS.)
 (A)MAC = 1.60

PITCHING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCLMS. PER DEG

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(REF:1)	ARC 57-747 GAS38 B C M F V V	.000	.000	-11.700	.000	SREF 7.4210 SCALE
(REF:2)	ARC 57-747 GAS38 B C M F V V	10.000	.000	-11.700	.000	SRCS 14.2640
(REF:3)	ARC 57-747 GAS38 B C M F V V	20.000	.000	-11.700	.000	BRX 28.1300
(REF:4)	ARC 57-747 GAS38 B C M F V V					YMRP 32.3000
						ZMRP 11.0000
						SCALE 11.0000
						SCALE 10.0000

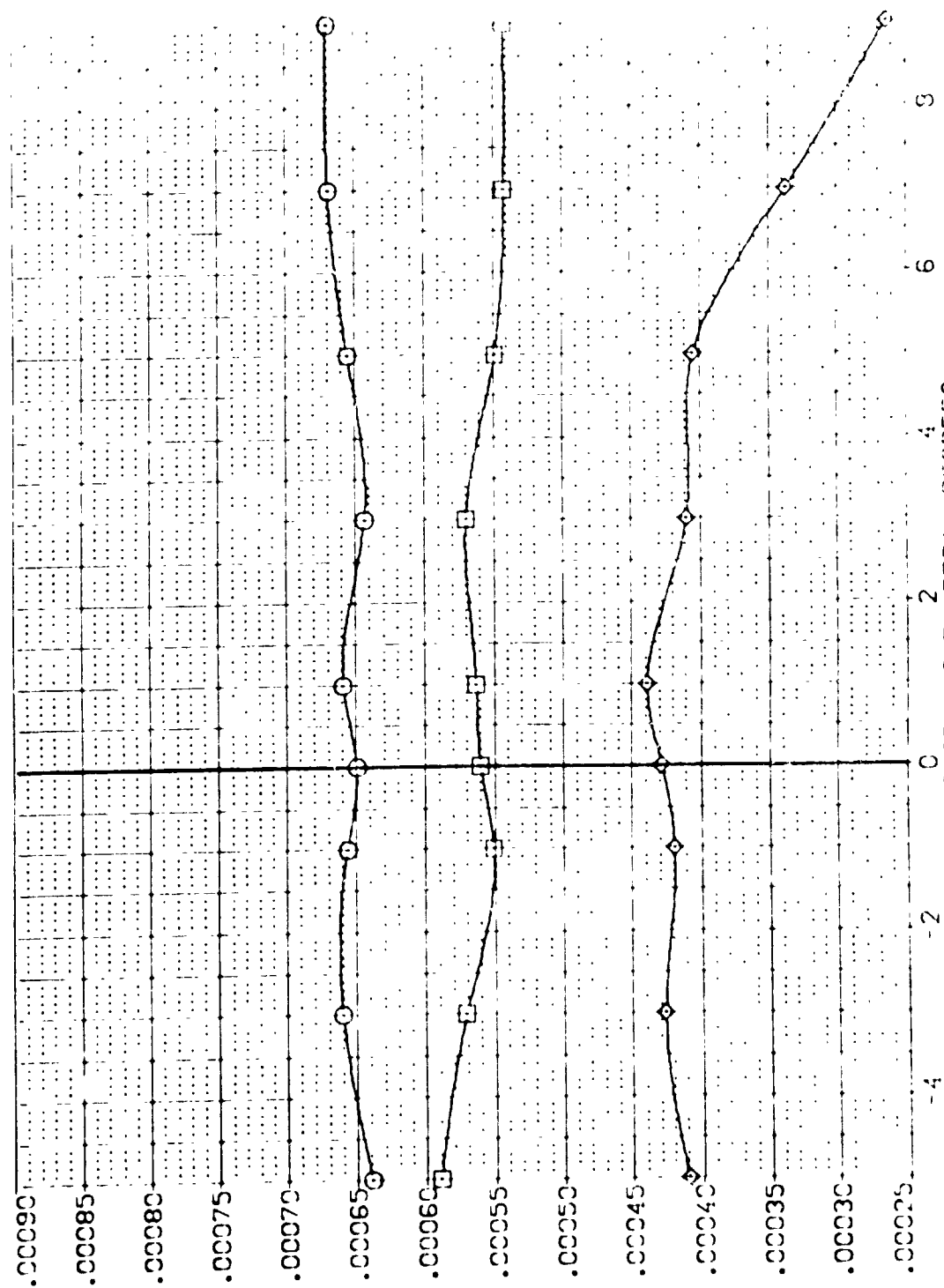


FIG. 28 SPEEDBRAKE DERIVATIVES, 55 DEGS. DEFLECT. (BASELINE - 25 DEGS.,

(B)MACH = 2.00 PAGE 376



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	ELEON	REFERENCE INFORMATION
ARC 270747	ARC 270747 CAS38 B C M F V	.000	.000	.700	.000	SCALE 2.4310
ARC 270748	ARC 270748 CAS38 B C M F V	10.000	.000	.700	.000	SCALE 14.2440
ARC 270749	ARC 270749 CAS38 B C M F V	20.000	.000	.700	.000	SCALE 28.1000
ARC 270750	ARC 270750 CAS38 B C M F V		.000	.700	.000	SCALE 30.3010
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000
						SCALE 11.0000

SIDE FORCE COEFF. DERIV. WITH SPEED BRAKE OEFL., DCY/DS. PER DEG

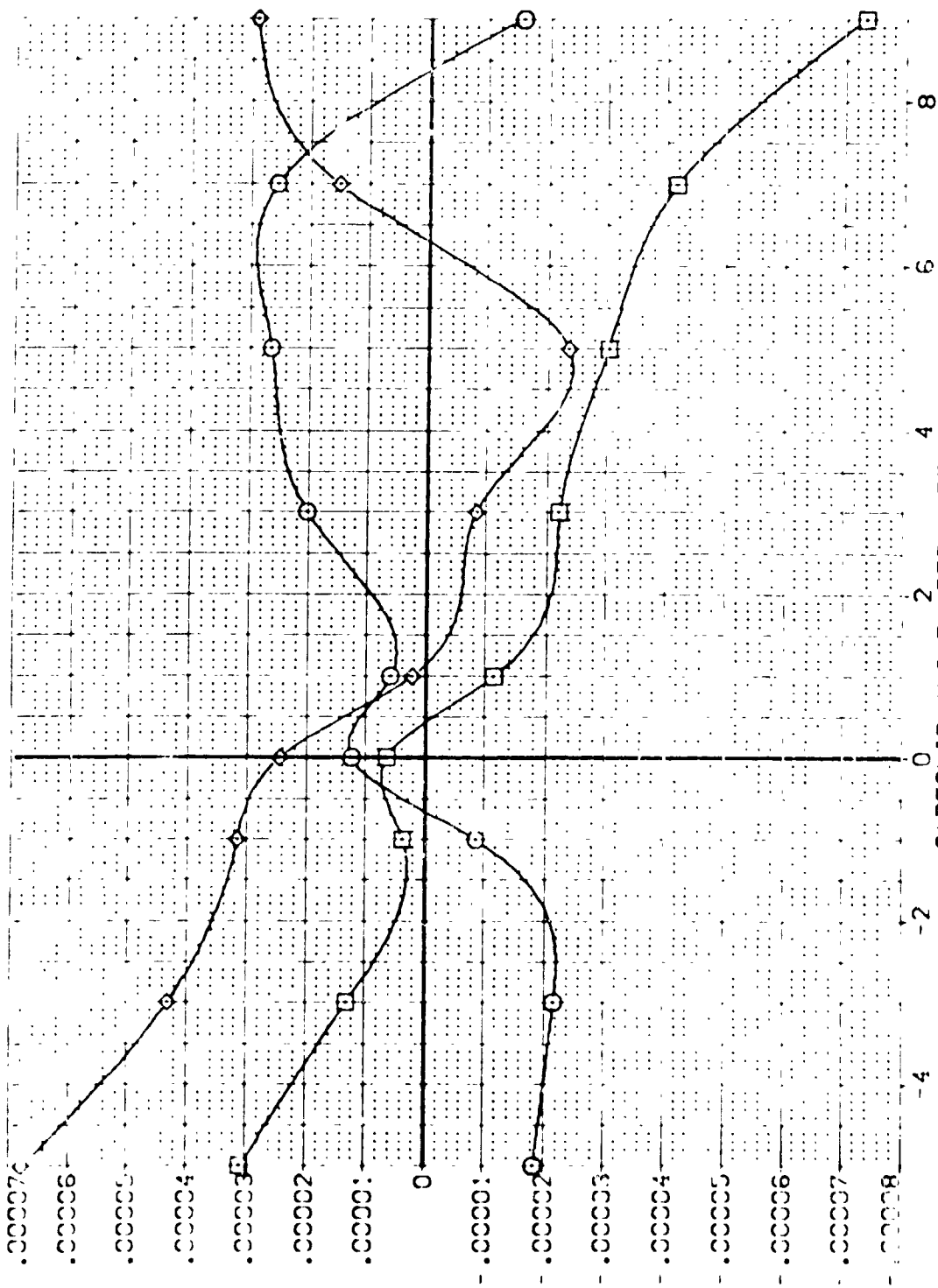


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

DATA SET SYMBO. CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VEF038)	ARC 97-747 DAS38 B C M F VI V	NONI. RNVL	ALPHA	RUDDER	BOE LAR	ELEVON	SREF	2.4210	SCALE
(VEF040)	ARC 97-747 DAS38 B C M F VI V	NONI. RNVL	10.000	.000	-11.700	.000	LREF	14.2440	
(VEF041)	ARC 97-747 DAS38 B C H F VI V	NONI. RNVL	20.000	.000	-11.700	.000	BRF	28.1004	
							XMRP	32.3015	
							YMRP	.0000	
							ZMRP	11.2300	
							SCALE	.0300	

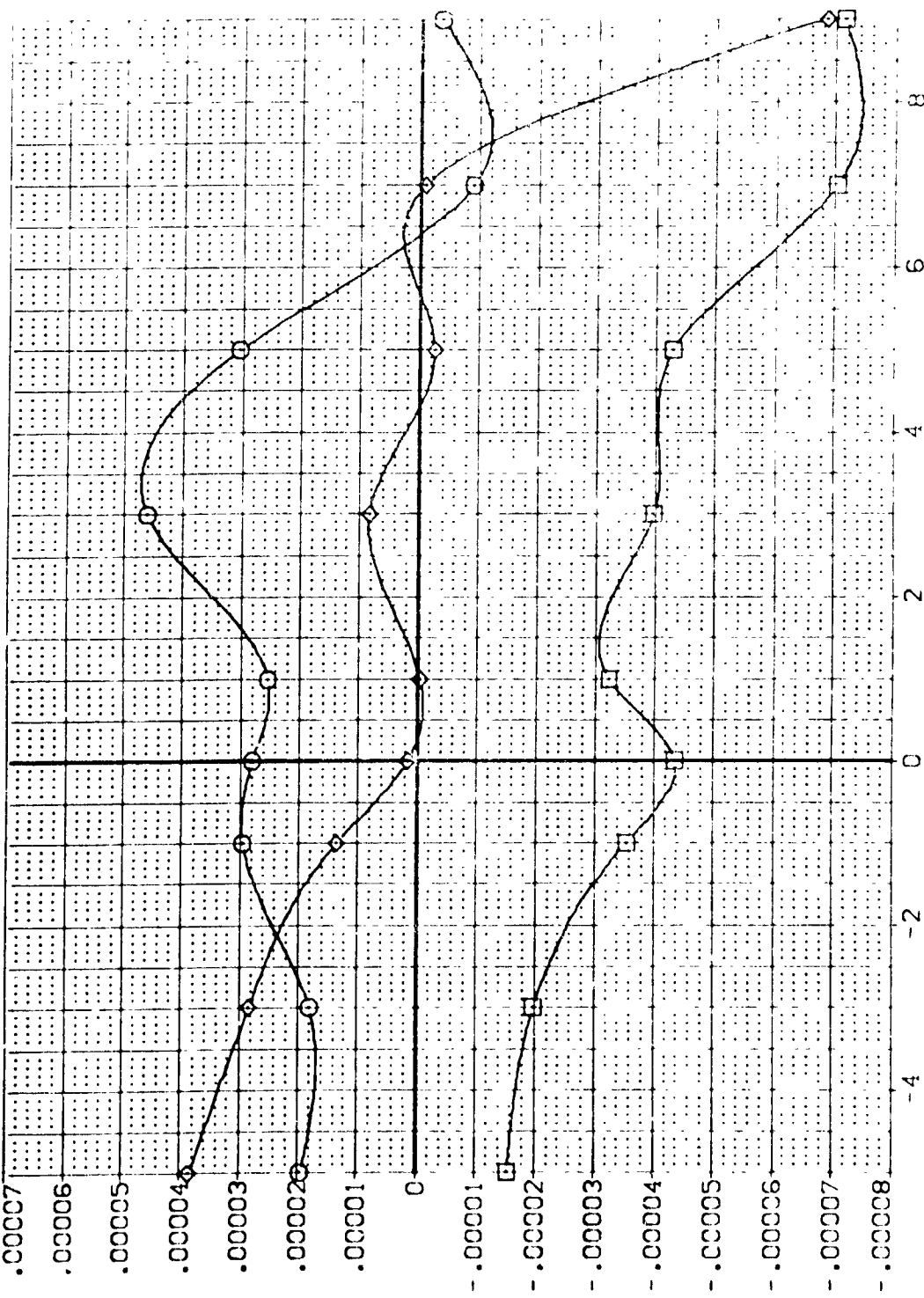


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(8)MACH = 2.00



DATA SET SYMBOL CONFIG: 113: DESCRIPTION
 (WPC39) C ABC 97-747 04538 B C M F V I Y NOM: RWL
 (WPC40) C ABC 97-747 04538 B C M F V I Y NOM: RWL
 (WPC41) C ABC 97-747 04538 B C M F V I Y NOM: RWL

ALPHA .000
 .000
 10.000
 20.000

RUDDER .000
 .000
 .000
 .000

BOFLAP -11.700
 -11.700
 -11.700
 -11.700

ELEVON .000
 .000
 .000
 .000

REFERENCE INFORMATION:
 SREF 2.4210 SC.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP .0000 IN.
 YMRP .0000 IN.
 ZMRP .0000 IN.
 SCALE 11.2500 SCALE

YAWING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCYNDS. PER DEG

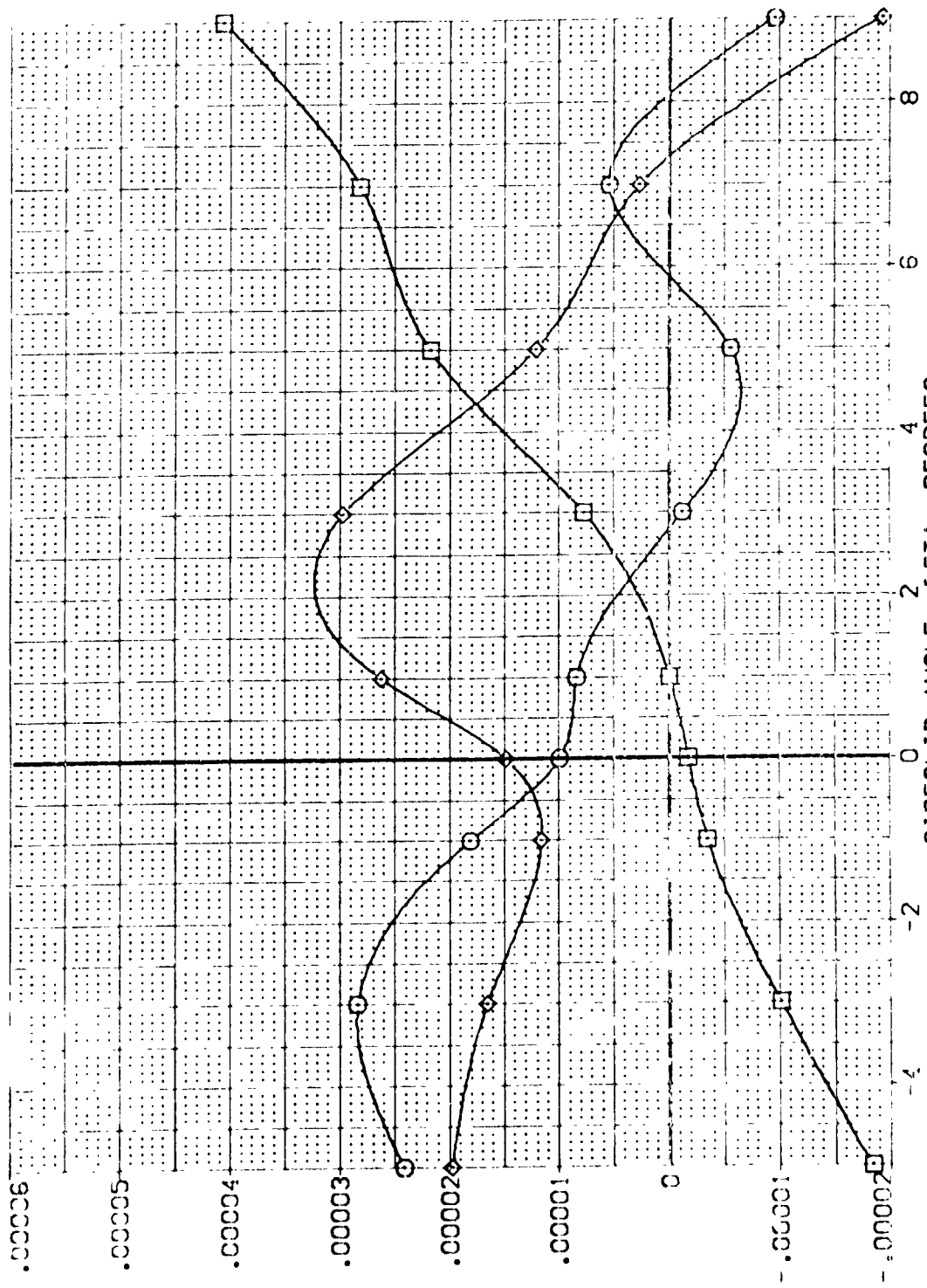


FIG. 29 SPEEDBRAKE DERIVATIVES 85 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

CA)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	ELEVON	REFERENCE INFORMATION
(O)	ARC 57-747 CAS38 B C M F V	.000	.000	-11.700	.000	SREF 2.4210 SQ.FT.
(O)	ARC 57-747 CAS38 B C M F V	10.000	.000	-11.700	.000	REF 14.2440 IN.
(O)	ARC 57-747 CAS38 B C M F V	20.000	.000	-11.700	.000	BREF 28.1004 IN.
(O)	ARC 57-747 CAS38 B C M F V					XMRP 32.3010 IN.
						YMRP 1.0000
						ZMRP 11.2500
						SCALE .0300

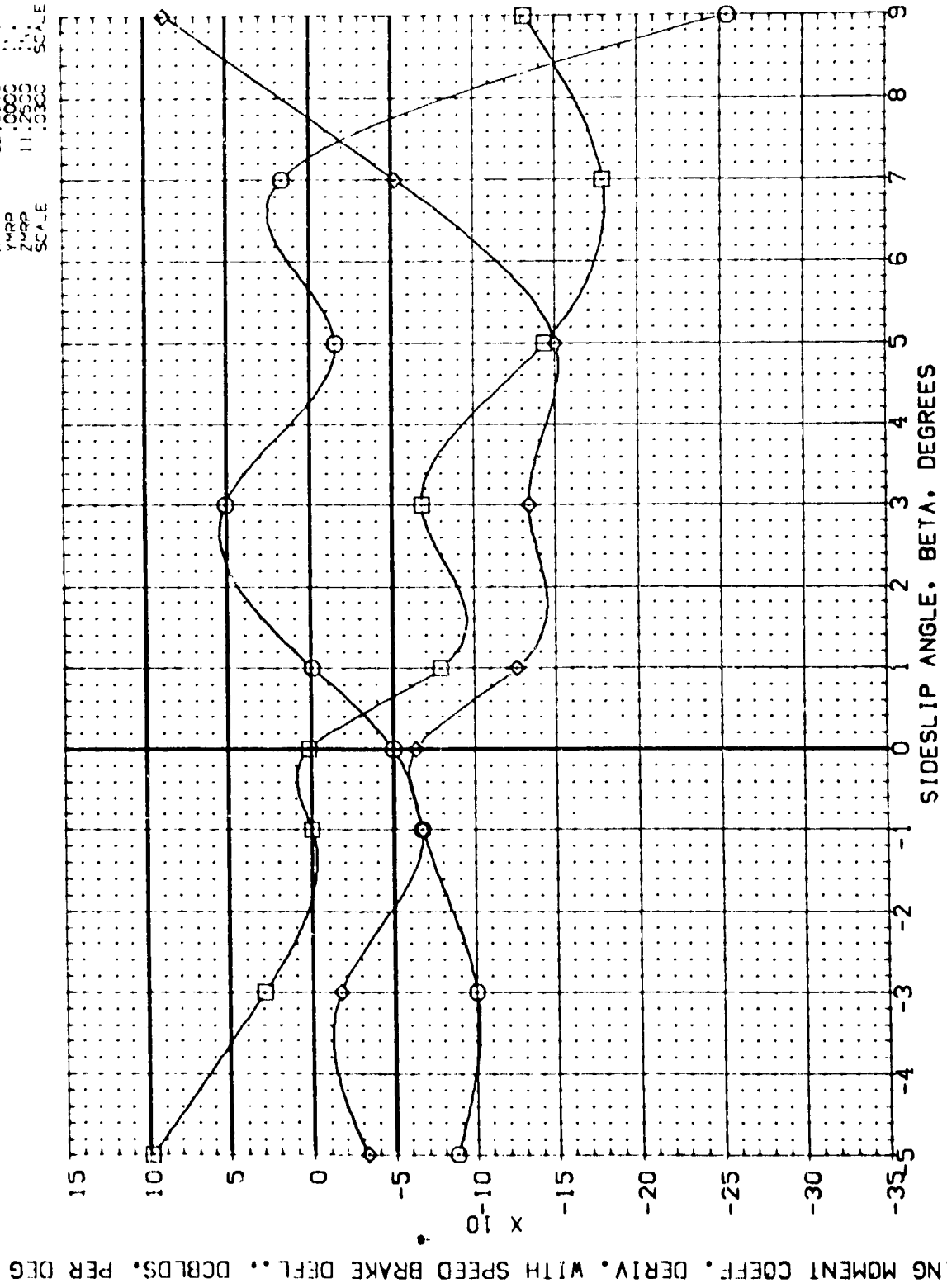


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT.(BASELINE = 25 DEGS.)

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VEK039)	ARC 97-747 CAS38 B C M F V	V	NOT	RN/L	SREF	2.4210	SC.FT.
(VEP040)	ARC 97-747 CAS38 B C M F V	V	NOT	RN/L	LREF	14.1740	IN.
(VEP041)	ARC 97-747 CAS38 B C M F V	V	NOT	RN/L	BREF	28.004	IN.
					XMRP	32.3010	IN.
					YMRP	0.000	IN.
					ZMRP	11.2500	IN.
					SCALE	.0300	SCALE

ALPHA 10.000
20.000

RUDDER .000
.000
.000

BOFLAP -11.700
-11.700
-11.700

ELEVON .000
.000
.000

ROLLING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL. DCBLDS. PER DEG

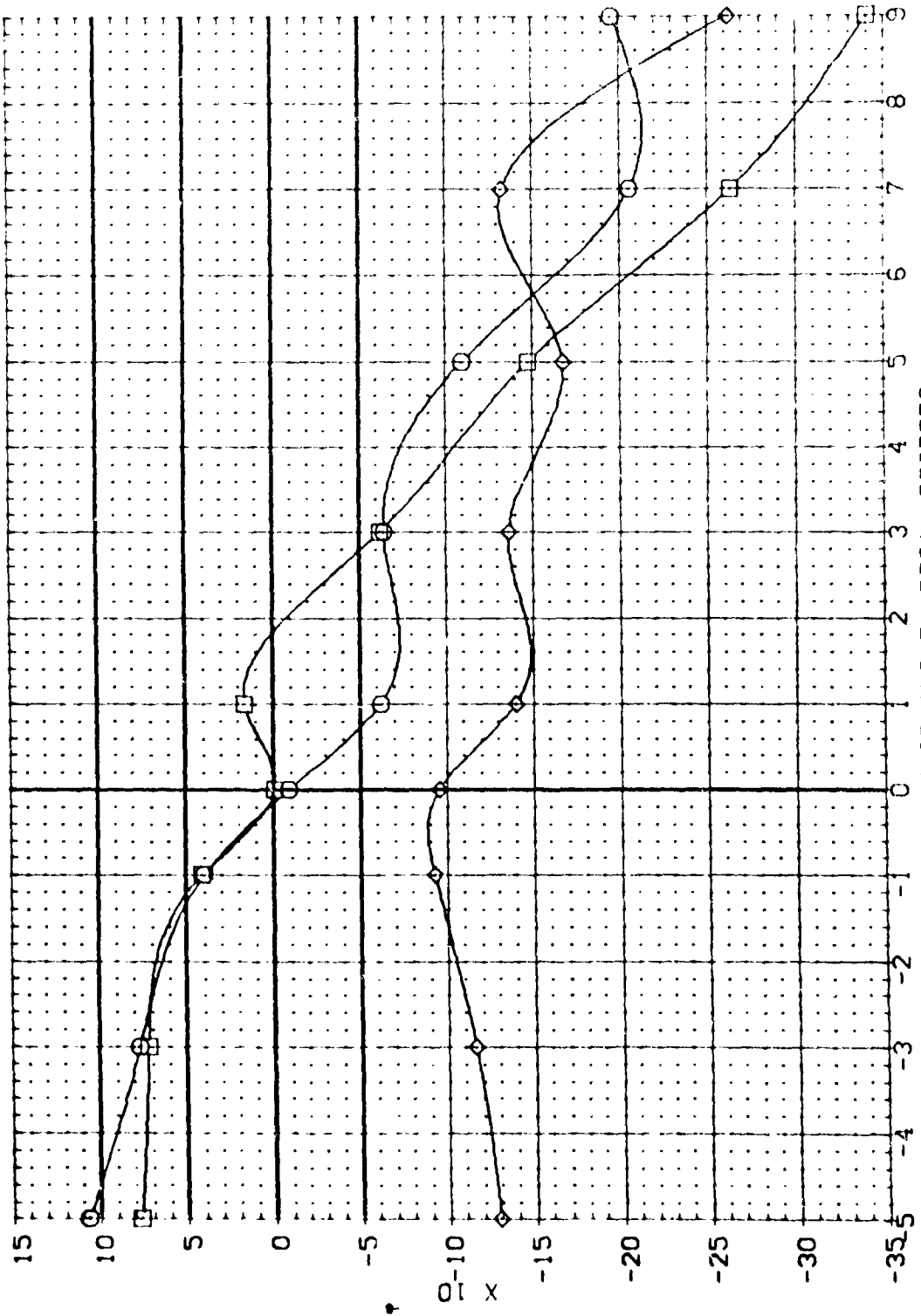


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)
(3)MACH = 2.00

DATA SET SYMBOL CONFIGURATION, DESCRIPTION
 (A) 97-747 85-38 B C M F V V NOM. RWL
 (B) 97-747 85-38 B C M F V V NOM. RWL
 (C) 97-747 85-38 B C M F V V NOM. RWL

ALPHA RUDDER BDFLAP ELEVON REFERENCE INFORMATION
 .000 .000 .000 SREF 2.4213 SQ.F.
 10.000 .000 LREF 14.2443
 20.000 .000 BRFF 28.1004
 .000 .000 XMRP 32.3010
 .000 .000 YMRP .0000
 .000 .000 ZMRP 11.2500
 SCALE .0000 SCALE

PITCHING MOMENT COEFF. DERIV. WITH SPEED BRAKE DEFL., DCLMS. PER DEG

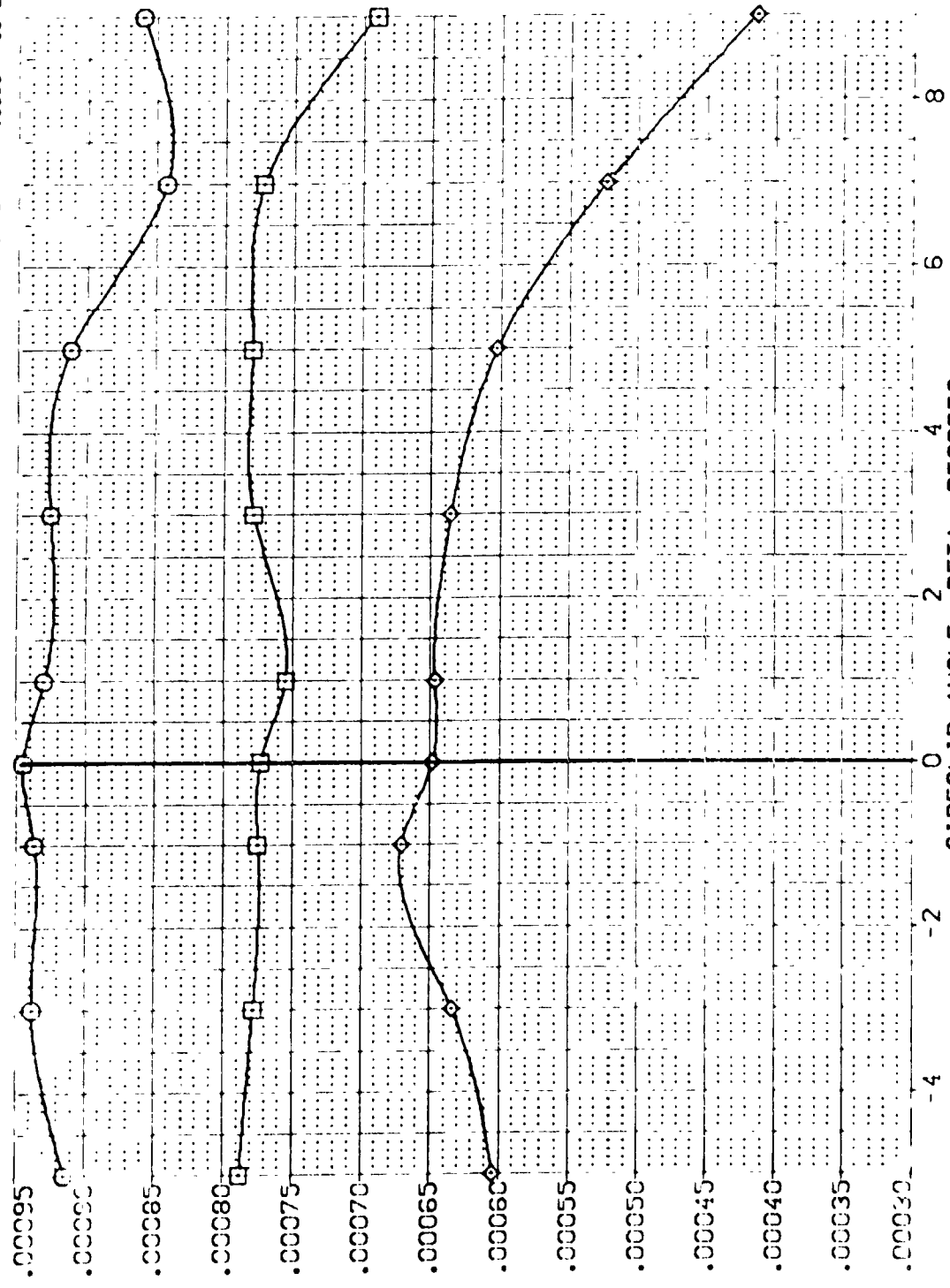


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(A) MACH = 1.60

DATA SET SYMBOL: (VEK039) (VEK040) (VEK041)

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F V I V NOT, RN/L (VEK039) ARC 97-747 CAS38 B C M F V I V NOT, RN/L (VEK040) ARC 97-747 CAS38 B C M F V I V NOT, RN/L (VEK041)

ALPHA: .000, 10.000, 20.000

RUDER: .000, .000, .000

BOFLAP: -11.700, -11.700, -11.700

ELEVON: .000, .000, .000

REFERENCE INFORMATION: SREF 2.4210 SC.F.T., LREF 14.2440 SC.F.T., BREF 28.1000 SC.F.T., XMRB 32.3610 SC.F.T., YMRB .0000 SC.F.T., ZMRB 11.7500 SC.F.T., SCALE 1.0000

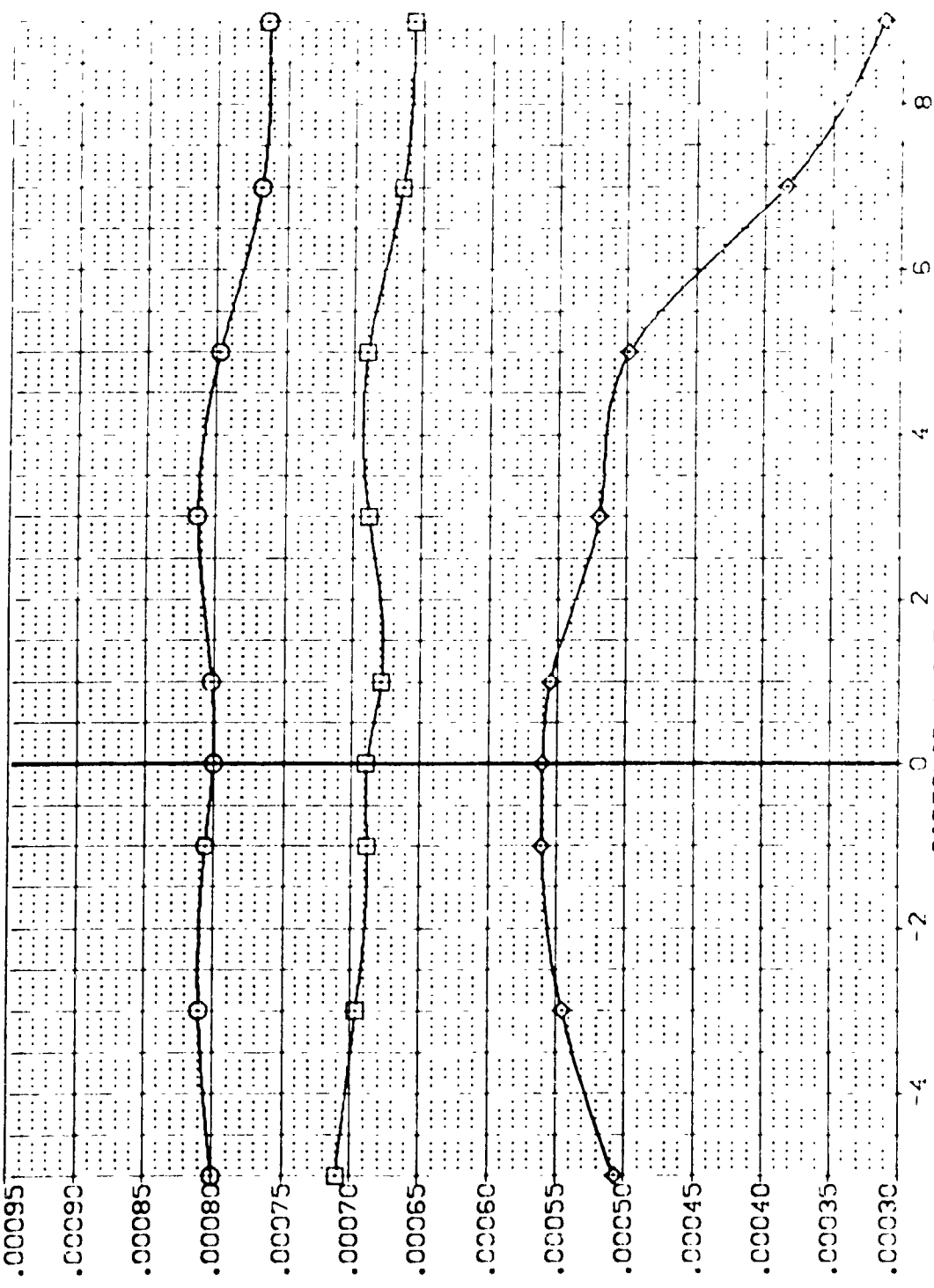


FIG. 29 SPEEDBRAKE DERIVATIVES, 85 DEGS. DEFLECT. (BASELINE = 25 DEGS.)

(B) VAC = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	PR.	ELEVON	ALTRON	BDF LAR	SPOBPA	REFERENCE INFORMATION
VEP003	APC 97-747 C1537 B C M E V	1	100	15.000	.000	1.700	55.000	SPSE 2.4210 SCALE
VEP004	APC 97-747 C1537 B C M E V	2	100	15.000	.000	1.700	55.000	SPSE 14.2640 SCALE
VEP005	APC 97-747 C1538 B C M E V	3	100	15.000	.000	1.700	55.000	SPSE 28.3000 SCALE
VEP006	APC 97-747 C1538 B C M E V	4	100	15.000	.000	1.700	55.000	SPSE 32.3000 SCALE
VEP007	APC 97-747 C1538 B C M E V	5	100	15.000	.000	1.700	55.000	SPSE 32.3000 SCALE

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET

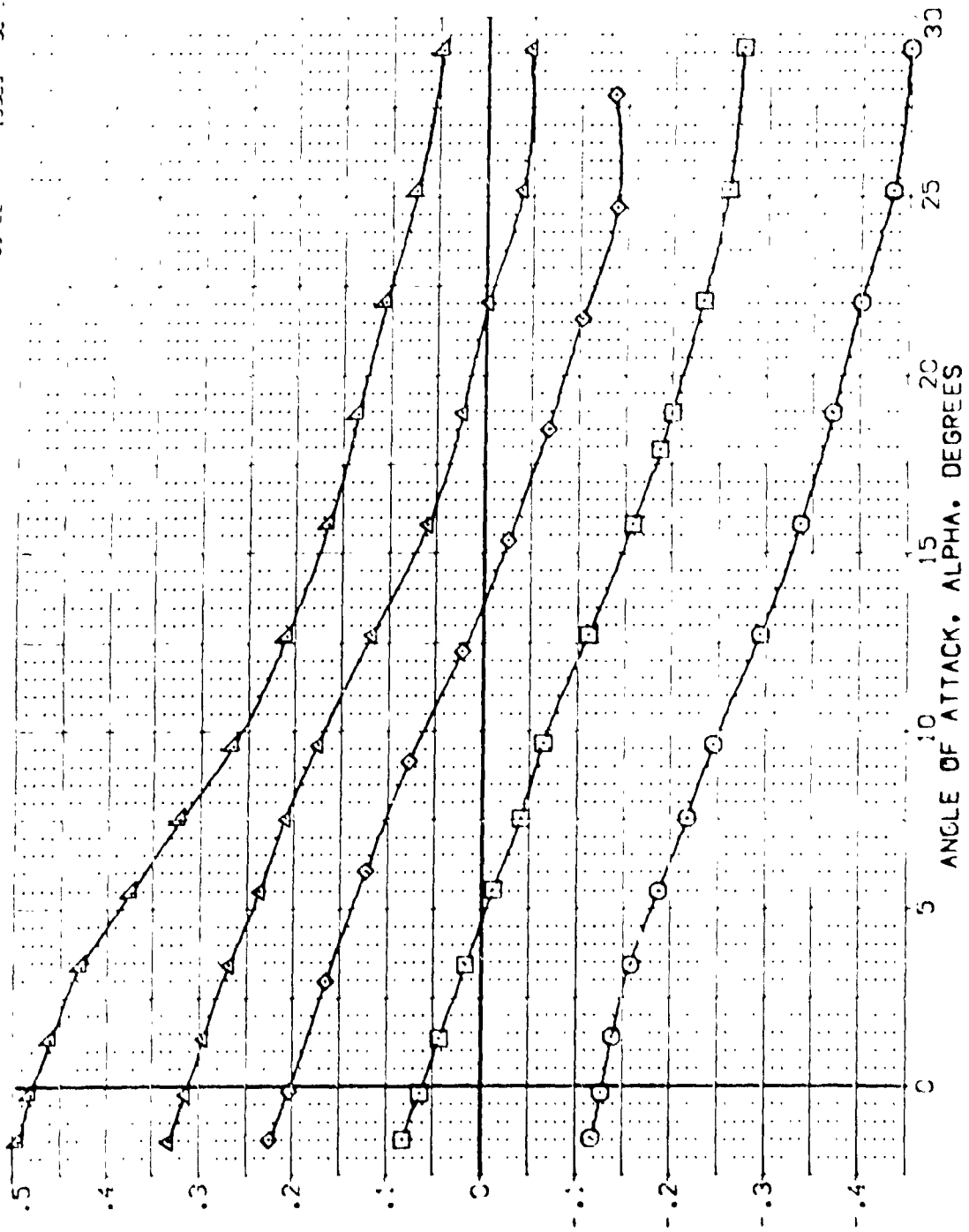


FIG. 30 ELEVON HINGE MOMENTS

CASMAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIR FLOW	BOF LAP	SPOBRN	REFERENCE INFORMATION
(VEP003)	APC 97-747 CA538 B C M F V	15.000	.000	1.700	55.000	SPEC 2.4212 SQ.FT.
(VEP001)	APC 97-747 CA538 B C M F V	10.000	.000	1.700	55.000	REF 14.2640
(VEP002)	APC 97-747 CA538 B C M F V	-10.000	.000	1.700	55.000	SPEC 28.004
(VEP019)	APC 97-747 CA538 B C M F V	-20.000	.000	1.700	55.000	SPEC 32.3010
(VEP023)	APC 97-747 CA538 B C M F V	-25.000	.000	1.700	55.000	SPEC 34.7500
						SCALE 10300

TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHET

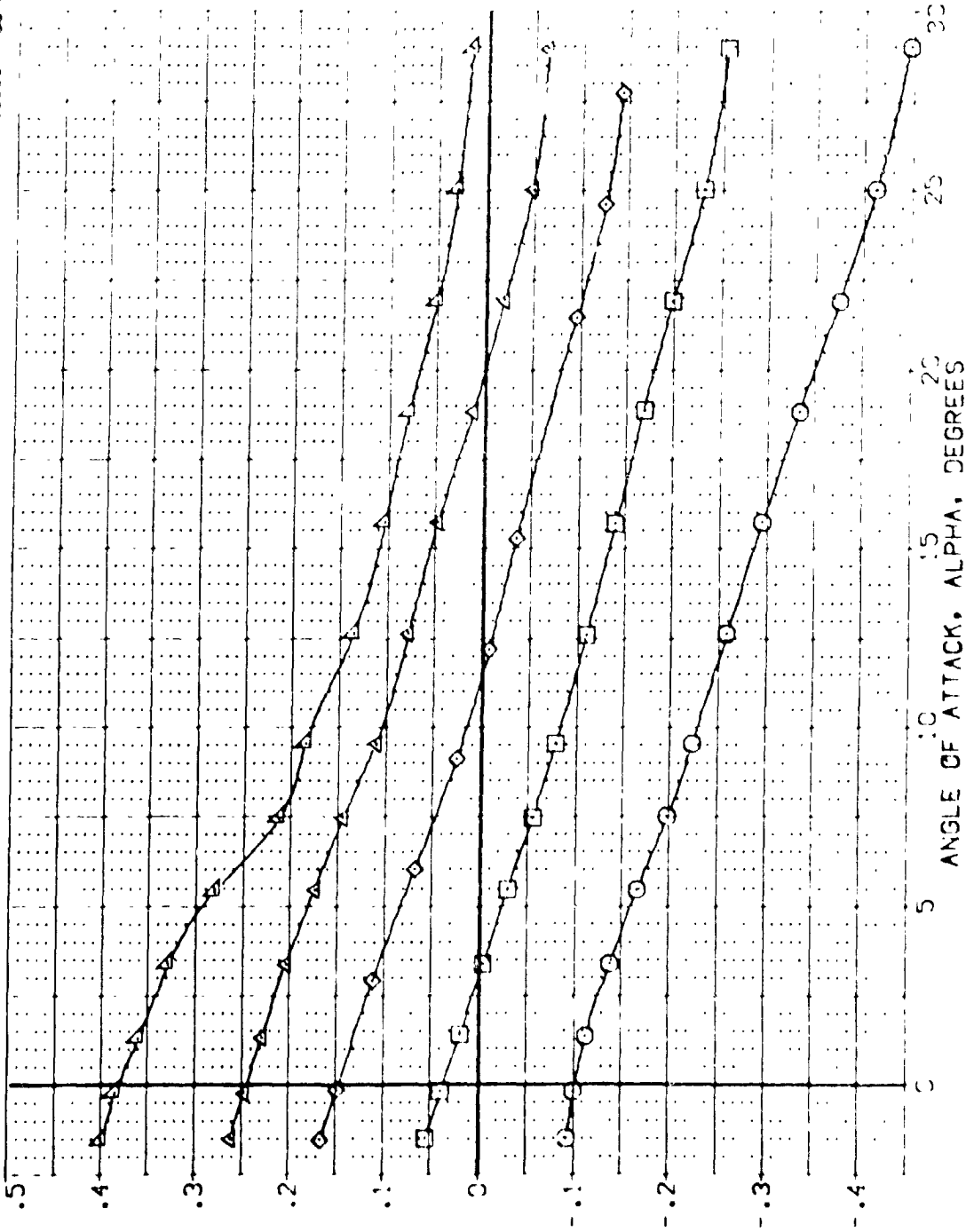
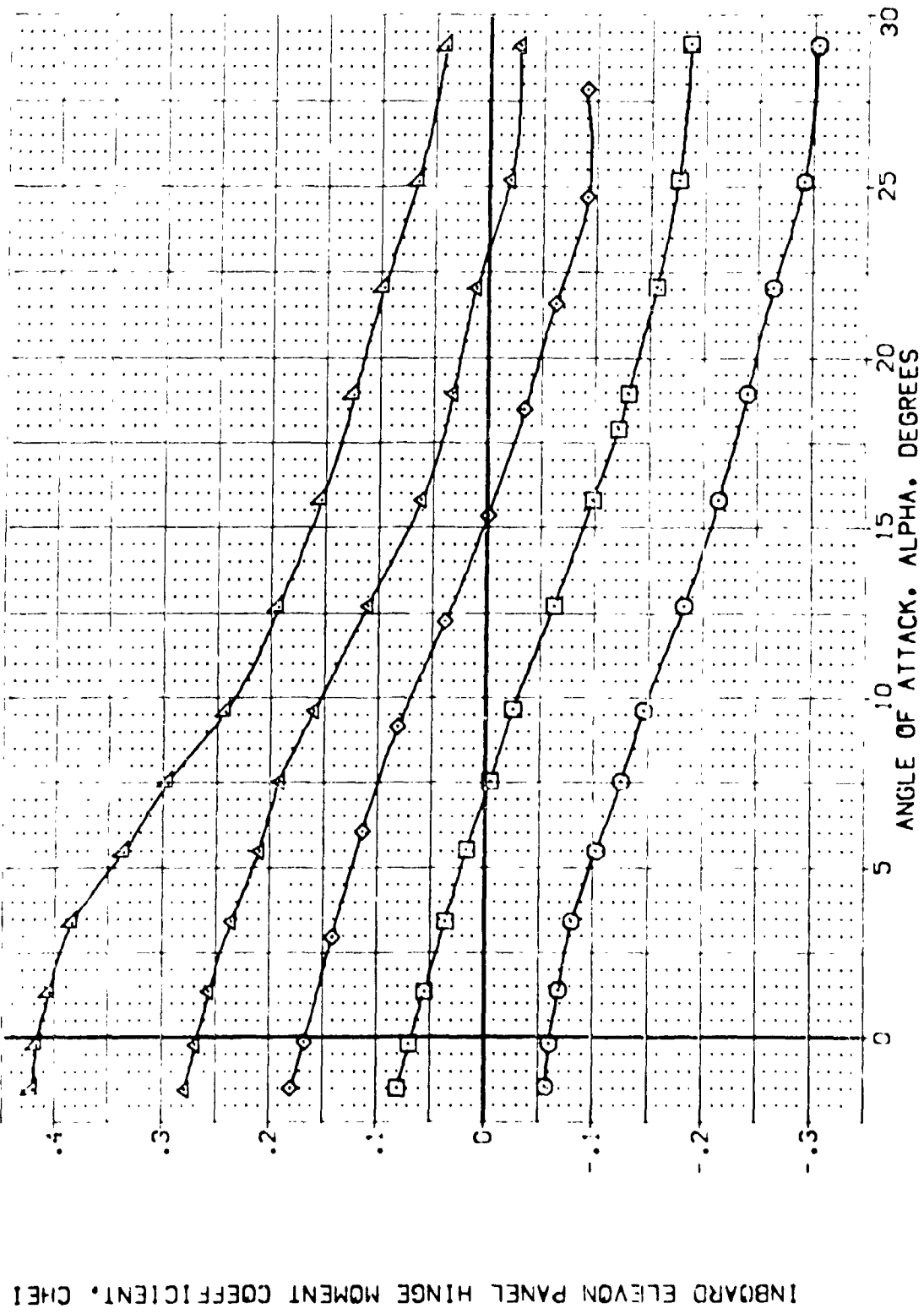


FIG. 30 ELEVON HINGE MOMENTS

(BY)AC - 2.00

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BDF LAP	SPDBRK	REFERENCE INFORMATION
YEP003	ARC 97-747 C1533 B C M F V	15.000	.000	-11.700	55.000	SREF 2.4210
YEP004	ARC 97-747 C1533 B C M F V	10.000	.000	-11.700	55.000	SREF 14.2440
YEP005	ARC 97-747 C1533 B C M F V	-10.000	.000	-11.700	55.000	SREF 28.1004
YEP006	ARC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	SREF 32.0000
YEP007	ARC 97-747 C1533 B C M F V	-20.000	.000	-11.700	55.000	SREF 11.2500

SCALE 11.0000



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

FIG. 30 ELEVON HINGE MOMENTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[YEP023]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L	ELEVON	AIRLON	BOFLAP	SPDRBY	SRPF	REFERENCE INFORMATION
[YEP024]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L	15.000	.000	1.700	55.000	2.4210	50. FT.
[YEP025]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L	.000	.000	1.700	55.000	14.2140	50. FT.
[YEP026]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L	-10.000	.000	1.700	55.000	28.1100	50. FT.
[YEP027]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L	-20.000	.000	1.700	55.000	37.3010	50. FT.
[YEP028]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP029]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP030]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP031]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP032]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP033]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP034]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP035]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP036]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP037]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP038]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP039]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP040]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP041]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP042]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP043]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP044]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP045]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP046]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP047]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP048]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP049]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.
[YEP050]	ARC 97-747	0AS38 B C	M F VI	V	NO-	RV/L					11.7000	50. FT.

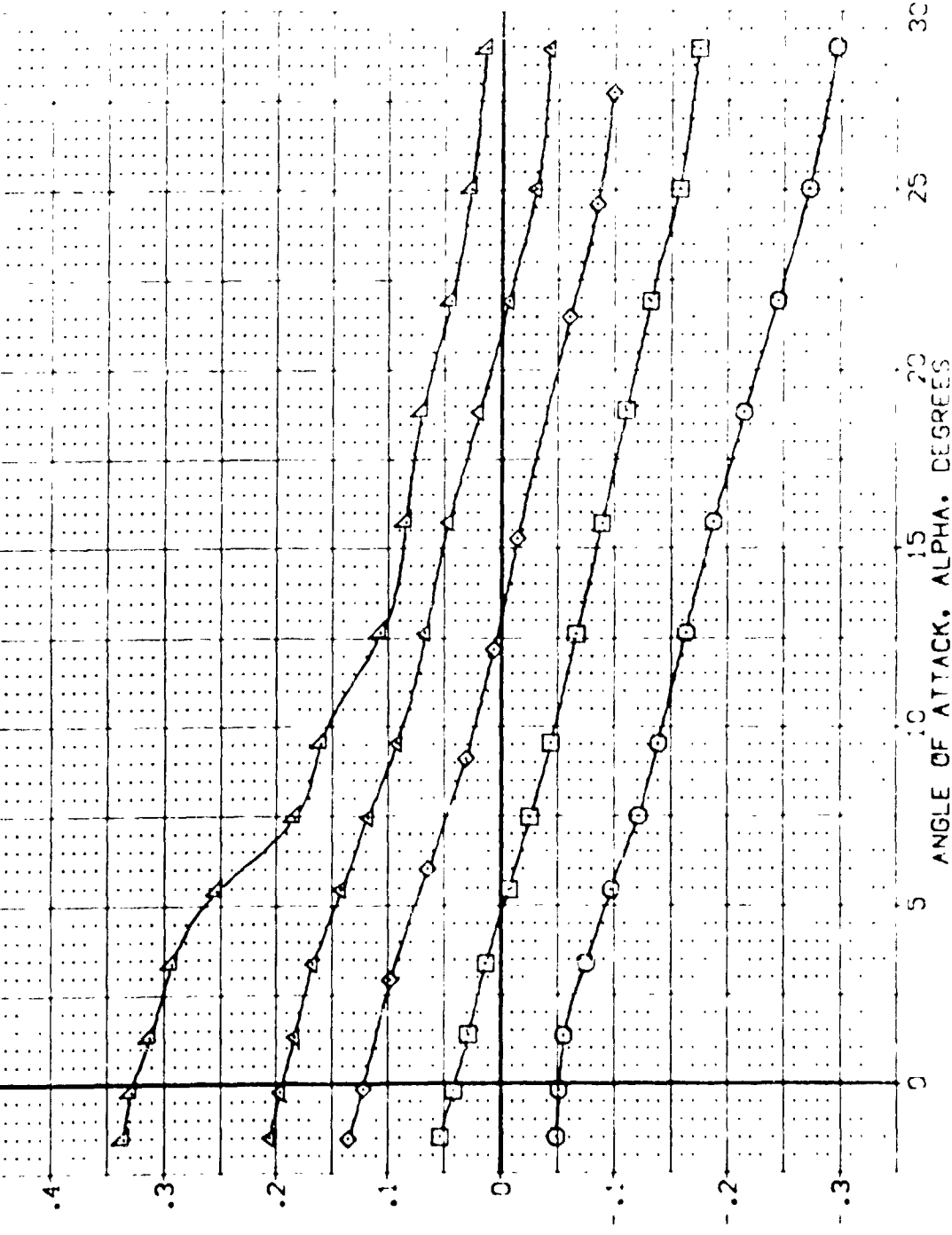


FIG. 30 ELEVON HINGE MOMENTS

(B)MAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VER#023) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#022) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#021) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#020) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#019) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#018) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#017) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#016) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#015) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#014) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#013) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#012) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#011) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#010) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#009) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#008) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#007) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#006) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#005) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#004) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#003) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#002) APC 97-747 C-453B B C H F E V NO- RW/L
 (VER#001) APC 97-747 C-453B B C H F E V NO- RW/L

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HMO}

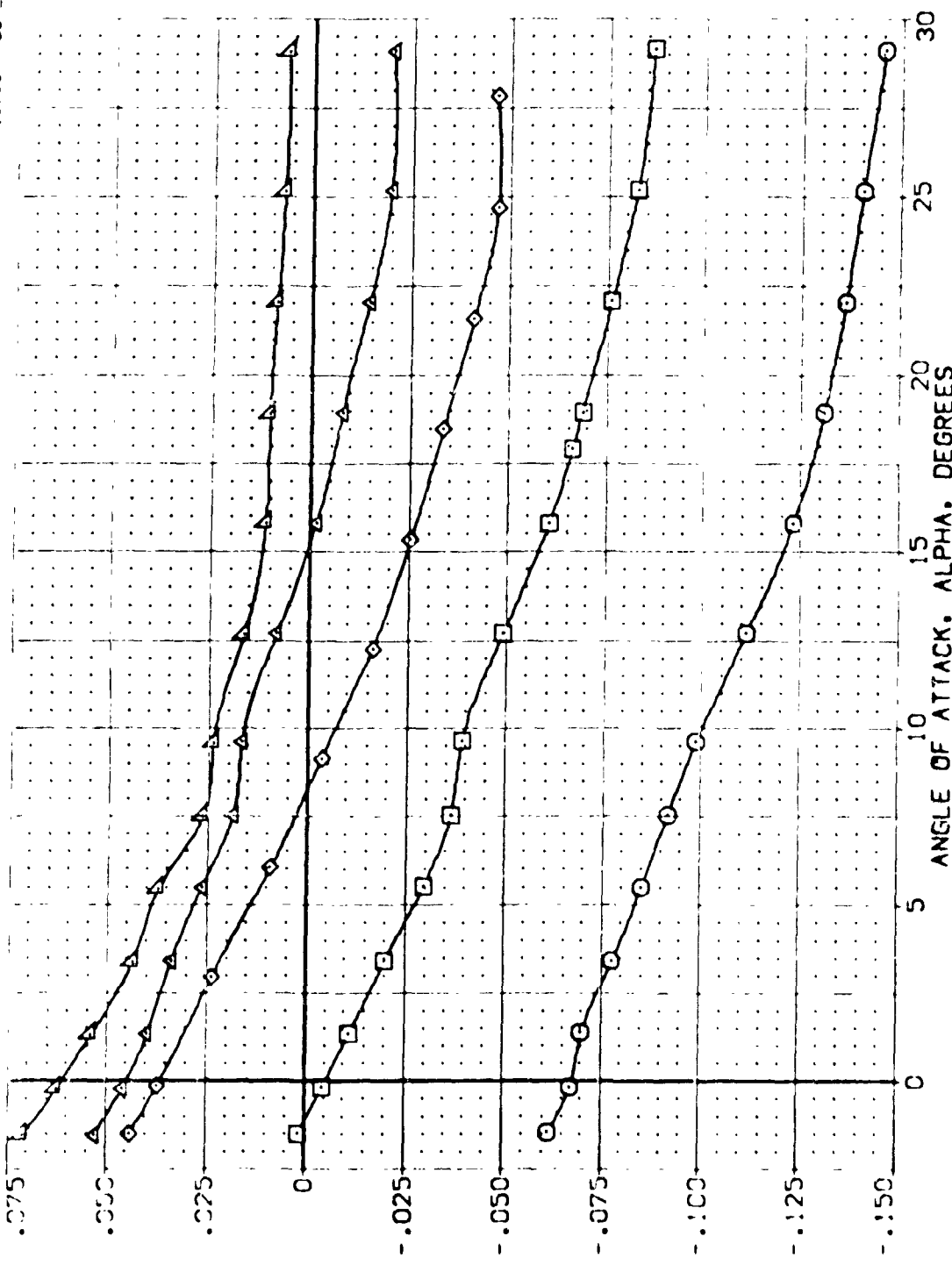


FIG. 30 ELEVON HINGE MOMENTS

CAMAC 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION SQ. FT.

(YEP003) Q ARC 97-747 D4538 B C M F V V 2.4210 50.00

(YEP004) X ARC 97-747 D4538 B C M F V V 14.2440 100.00

(YEP005) Z ARC 97-747 D4538 B C M F V V 28.1000 200.00

(YEP073) Z ARC 97-747 D4538 B C M F V V 32.3000 250.00

ELEVON AILIRON BDF LAP SPOBRK REFERENCE INFORMATION SQ. FT.

15.000 .000 .700 55.000 2.4210 50.00

10.000 .000 .700 55.000 14.2440 100.00

-10.000 .000 .700 55.000 28.1000 200.00

-20.000 .000 .700 55.000 32.3000 250.00

SCALE 11.2500 10000

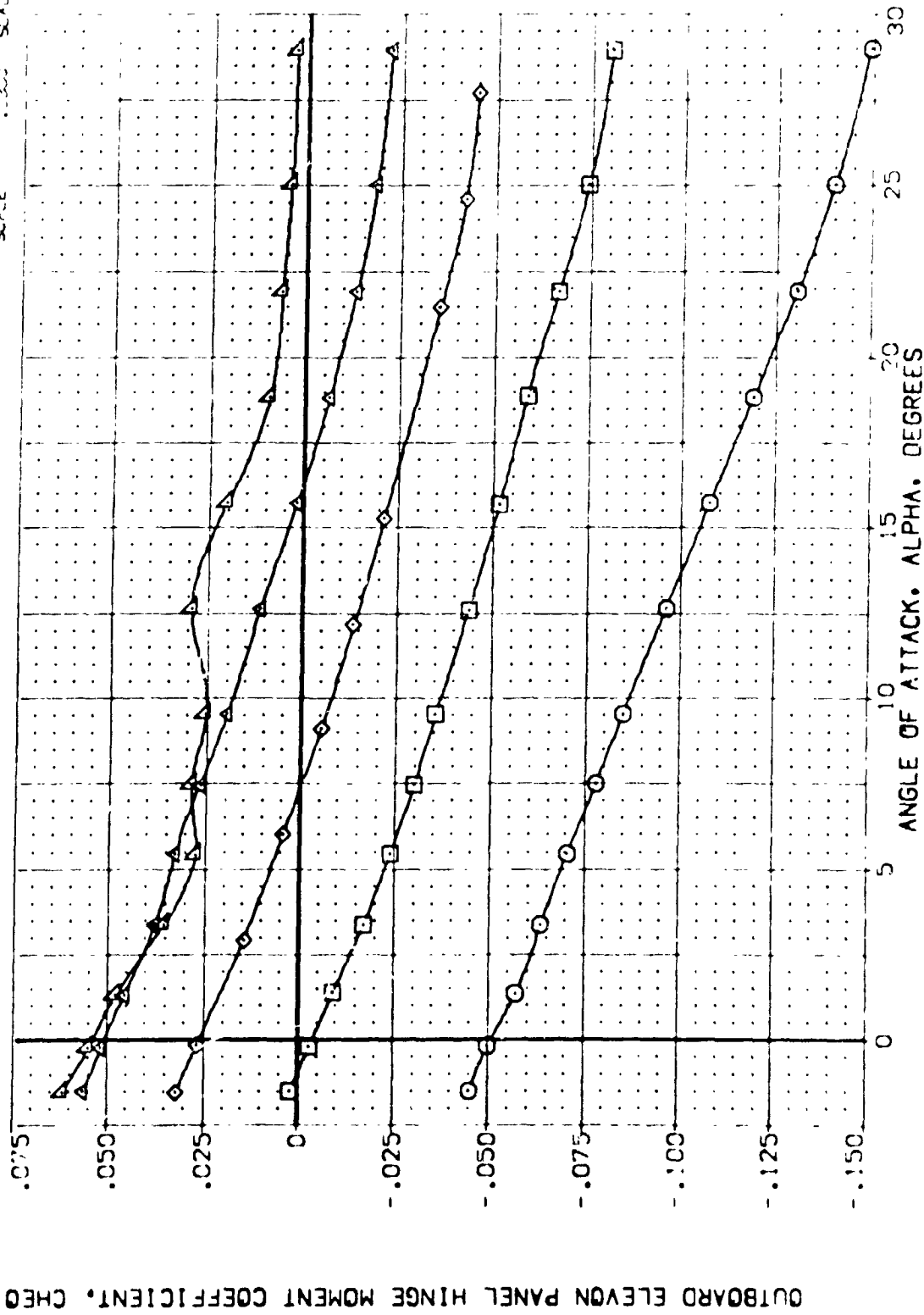


FIG. 30 ELEVON HINGE MOMENTS

(B)MAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION SCALE

()	ABC 97-747 CAS38 B C M E V	SREF 2.4210	55.000
()	ABC 97-747 CAS38 B C M E V	UREF 14.2442	55.000
()	ABC 97-747 CAS38 B C M E V	BRF 28.1100	55.000
()	ABC 97-747 CAS38 B C M E V	XMRD 37.3010	55.000
()		ZMRD 11.2500	55.000
()		SCALE 11.0000	55.000

ELEVATION ALLIRON BOF AP SPOBRK

.000	.000	16.300	55.000
.000	.000	.000	55.000
.000	.000	-11.700	55.000

NON. P.V.L NON. P.V.L NON. P.V.L

BODYFLAP HINGE MOMENT COEFFICIENT, CHBF

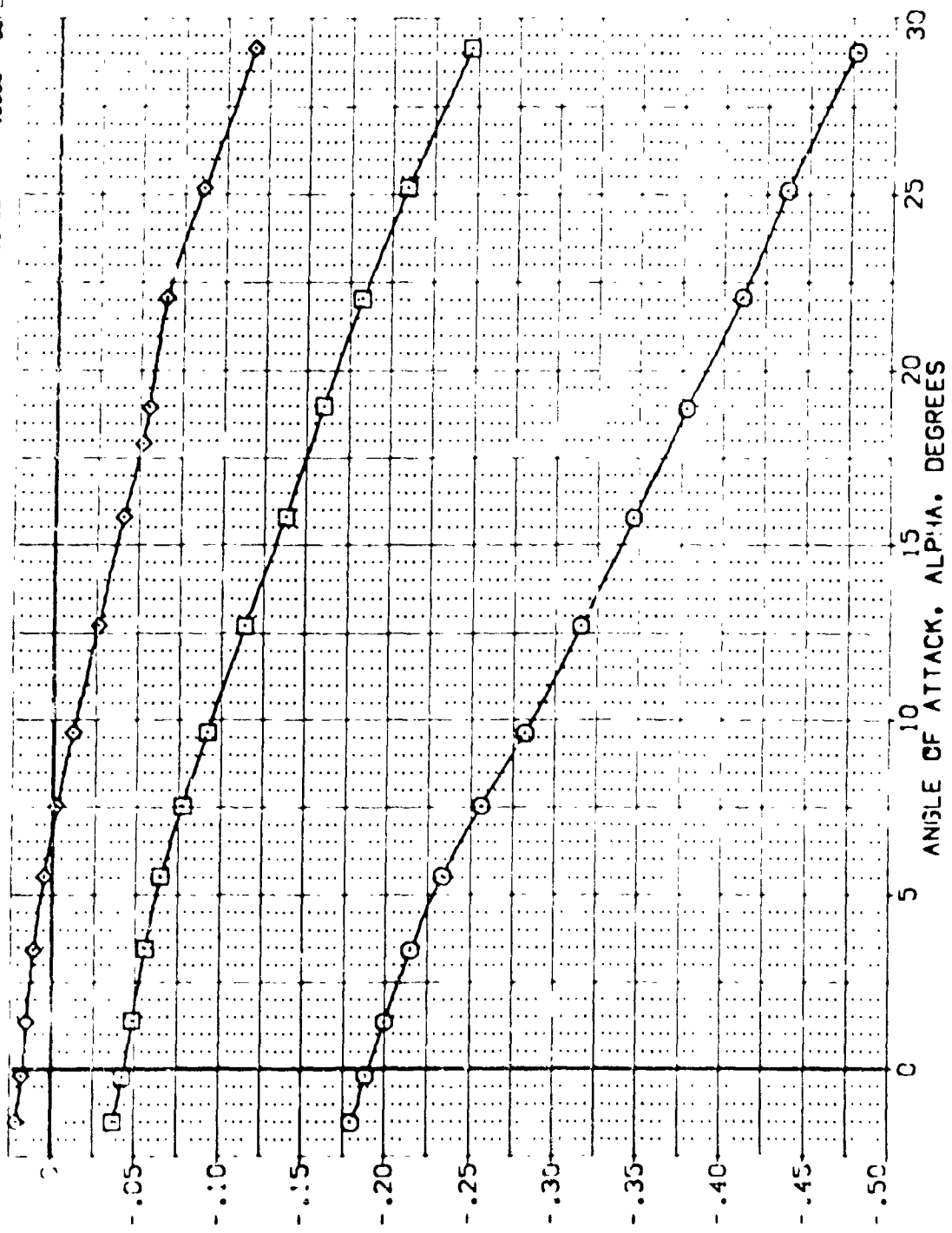


FIG. 31 BODYFLAP HINGE MOMENTS

(M)MACH = 1.60

DATA SET SYMBOL: [YEQ010] [YEQ016] [YEQ011]

CONFIGURATION DESCRIPTION: ARC 97-747 DA538 B C M F V I V, ARC 97-747 DA538 B C M F V I V, ARC 97-747 DA538 B C M F V I V

NON: RNVL, NOM: RNVL, NOM: RNVL

ELEVON: .000, .000, .000

AILERON: .000, .000, .000

BOFLAP: 16.200, .000, -11.700

SPOBRK: 55.000, 55.000, 55.000

REFERENCE INFORMATION: SRFF 2.4210 SC.F.T., LREF 14.2445 N., BRFF 76.1004 N., XMRD 97.3010 N., YMRD 10000 N., ZMRD 110000 N., SCALE 11.0300 SCALE

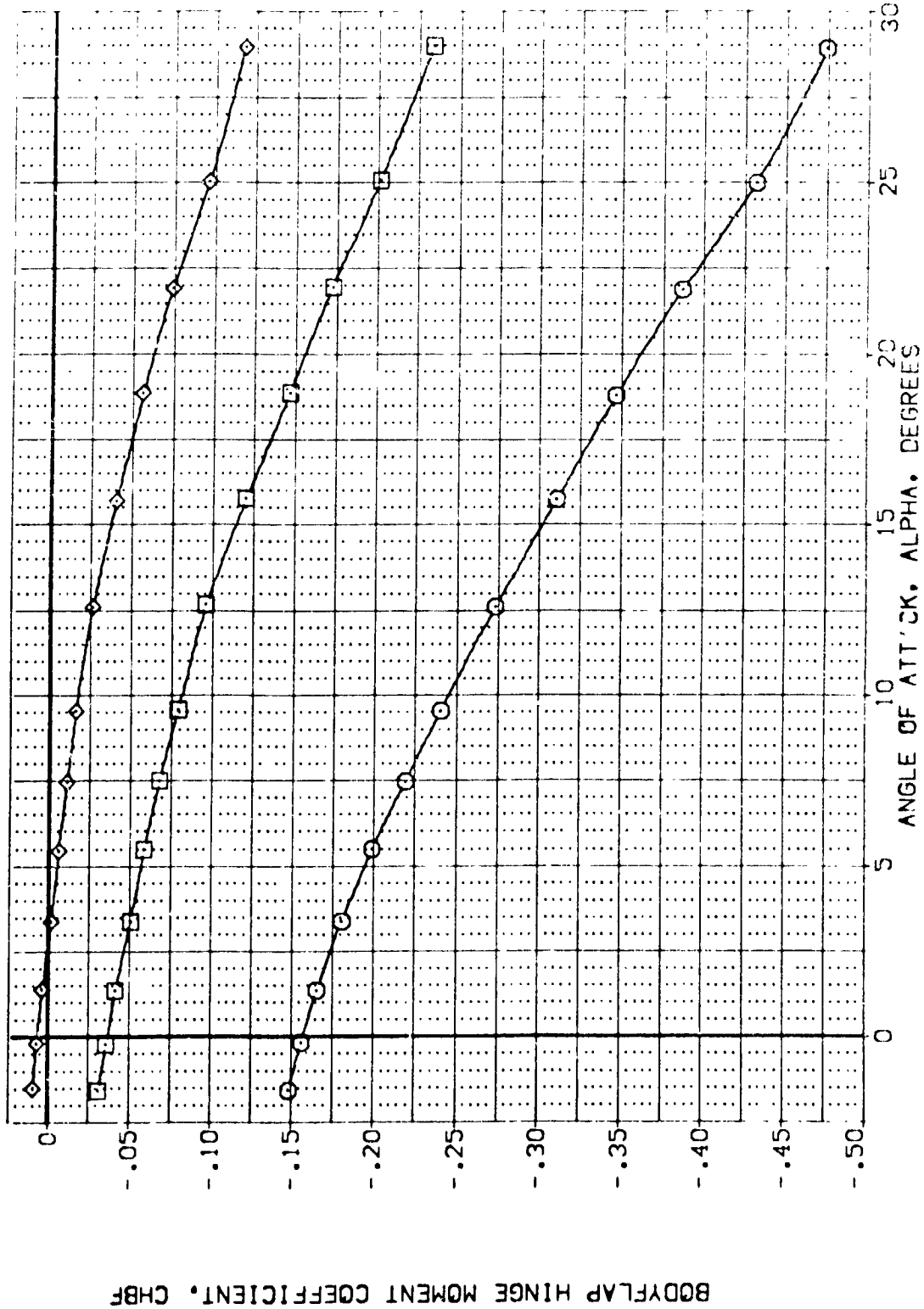


FIG. 31 BODYFLAP HINGE MOMENTS

(B)MACH = 2.00

CASE 5180L CONFIGURATION DESCRIPTION
 (1) ABC 97-747 C-4538 B C 1 A F V
 (2) ABC 97-747 C-4538 B C 1 A F V
 (3) ABC 97-747 C-4538 B C 1 A F V
 (4) ABC 97-747 C-4538 B C 1 A F V
 (5) ABC 97-747 C-4538 B C 1 A F V

RUVL
 RUVL
 RUVL
 RUVL
 RUVL

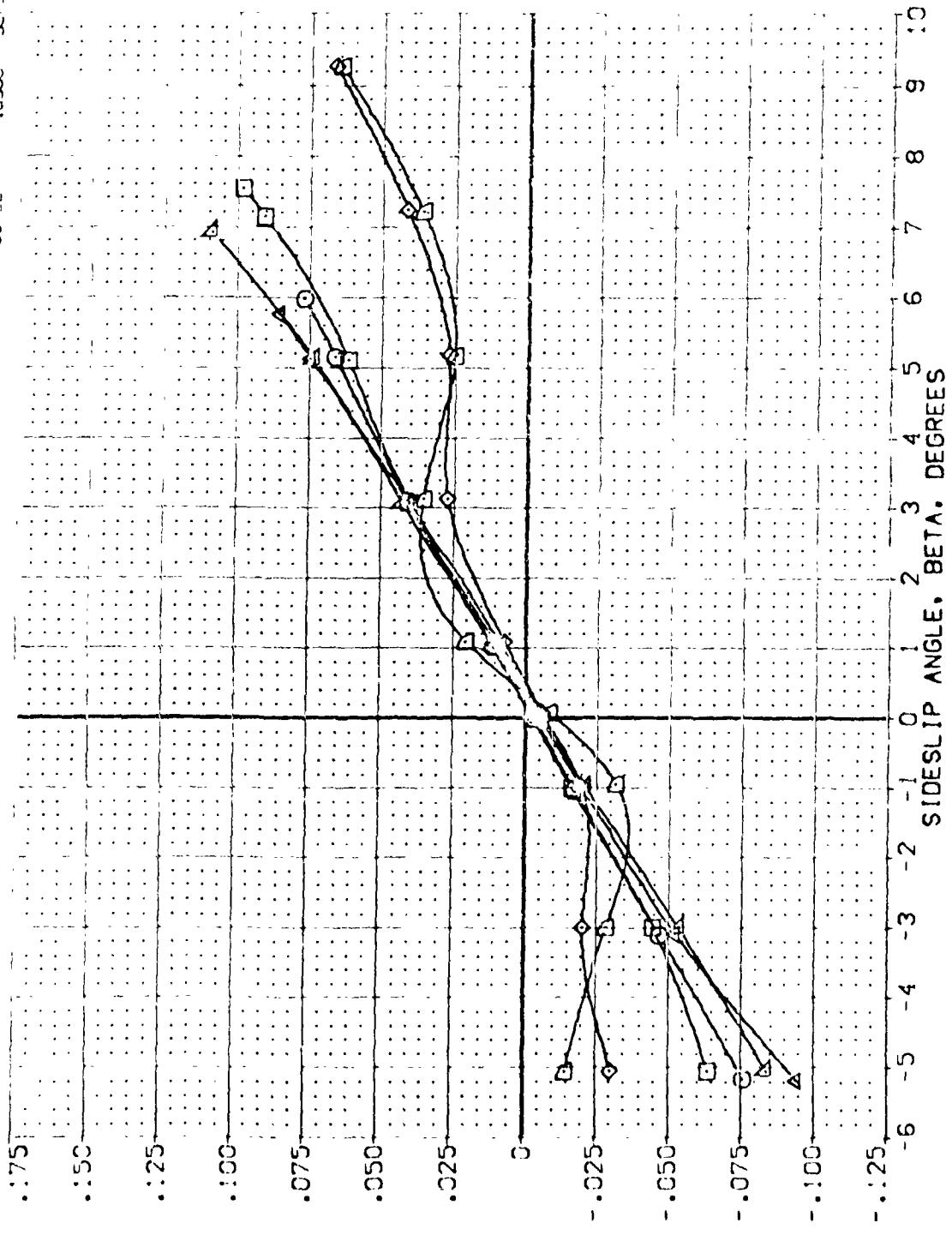
ALPHA
 .000
 10.000
 20.000
 10.000
 20.000

RUDDER
 .000
 .000
 .000
 .000
 .000

BOF LAP
 .700
 .700
 .700
 .700
 .700

SPODBK
 25.000
 25.000
 25.000
 55.000
 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 AREF 14.2430
 BR 28.1854
 XMOB 32.3010
 YMOB 11.2500
 ZMOB 11.2500
 SCALE .0300

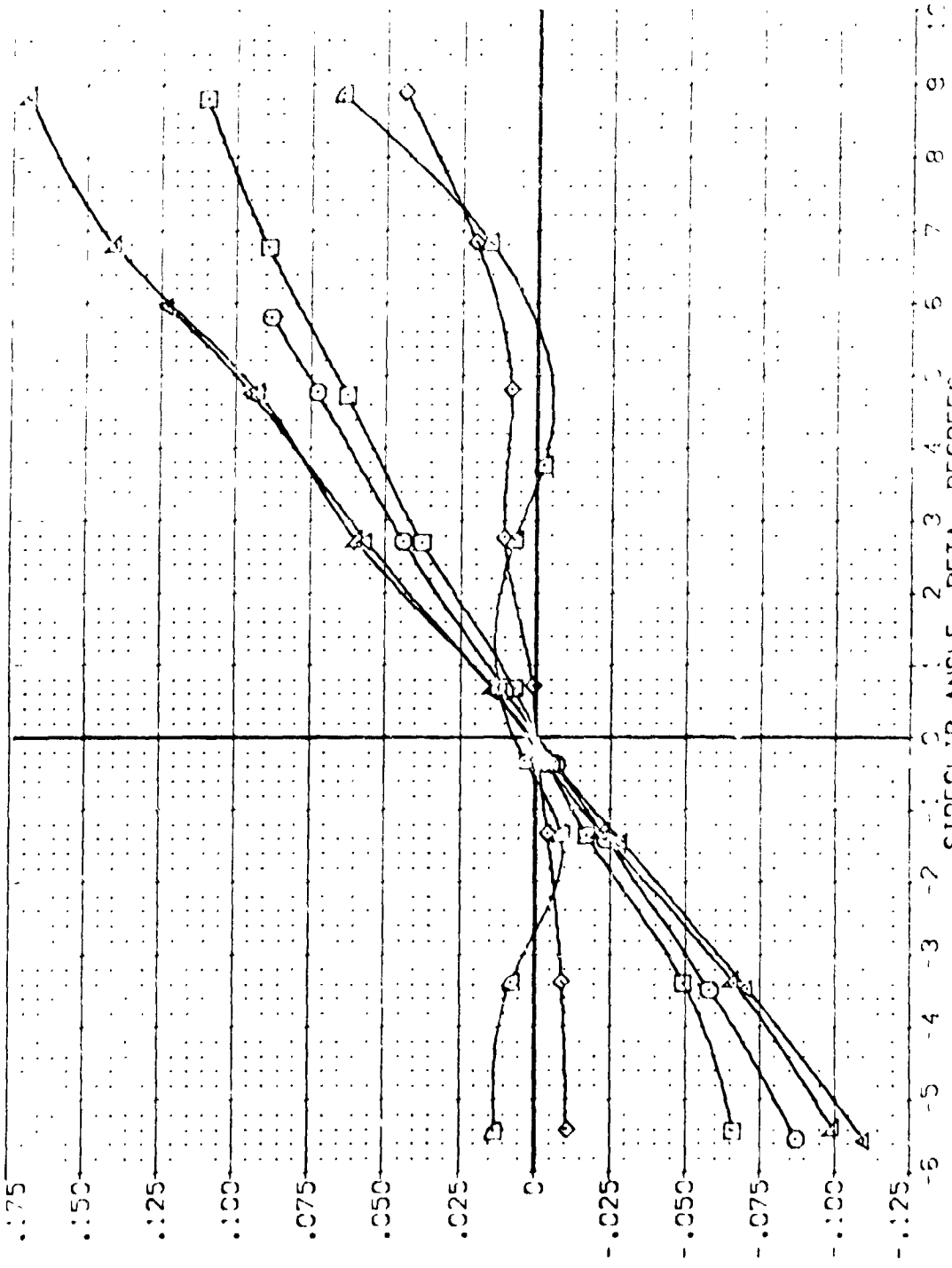


RUDDER HINGE MOMENT COEFFICIENT, CHR

FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(A)MAC = 1.60

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	RUDDER	30F LAP	SPDRBY	REF. REF. REF.	SCALE
VEP025	ABC 97-747	CA538 B C M F V	10.000	.000	.700	25.000	SPEE	2.4210
VEP026	ABC 97-747	CA538 B C M F V	10.000	.000	.700	25.000	REF	1.4244
VEP027	ABC 97-747	CA538 B C M F V	20.000	.000	.700	25.000	SPDR	28.3024
VEP012	ABC 97-747	CA538 B C M F V	10.000	.000	.700	55.000	AMBO	32.3000
VEP013	ABC 97-747	CA538 B C M F V	10.000	.000	.700	55.000	AMBO	32.3000
VEP014	ABC 97-747	CA538 B C M F V	20.000	.000	.700	55.000	AMBO	32.3000
			20.000	.000	.700	55.000	SCALE	10.000



RUDDER HINGE MOMENT COEFFICIENT, CHR

FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(B) VAS = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

VELOC1	ARC 57-747	24538	B	C	M	E	V	N	RV	ALPHA	RUDDER	SDSLIP	SPDRM	REFERENCE INFORMATION
VELOC2	ARC 57-747	24538	B	C	M	E	V	N	RV	10.000	.000	-11.700	25.000	SPKE 2.4210
VELOC3	ARC 57-747	24538	B	C	M	E	V	N	RV	20.000	.000	-11.700	25.000	% 14.2442
VELOC4	ARC 57-747	24538	B	C	M	E	V	N	RV	30.000	.000	-11.700	25.000	28.0000
VELOC5	ARC 57-747	24538	B	C	M	E	V	N	RV	40.000	.000	-11.700	25.000	37.0000
VELOC6	ARC 57-747	24538	B	C	M	E	V	N	RV	50.000	.000	-11.700	25.000	46.0000
VELOC7	ARC 57-747	24538	B	C	M	E	V	N	RV	60.000	.000	-11.700	25.000	55.0000
VELOC8	ARC 57-747	24538	B	C	M	E	V	N	RV	70.000	.000	-11.700	25.000	64.0000
VELOC9	ARC 57-747	24538	B	C	M	E	V	N	RV	80.000	.000	-11.700	25.000	73.0000
VELOC10	ARC 57-747	24538	B	C	M	E	V	N	RV	90.000	.000	-11.700	25.000	82.0000
VELOC11	ARC 57-747	24538	B	C	M	E	V	N	RV	10.000	.000	-11.700	55.000	91.0000
VELOC12	ARC 57-747	24538	B	C	M	E	V	N	RV	20.000	.000	-11.700	55.000	100.0000
VELOC13	ARC 57-747	24538	B	C	M	E	V	N	RV	30.000	.000	-11.700	55.000	SCALE
VELOC14	ARC 57-747	24538	B	C	M	E	V	N	RV	40.000	.000	-11.700	55.000	SCALE

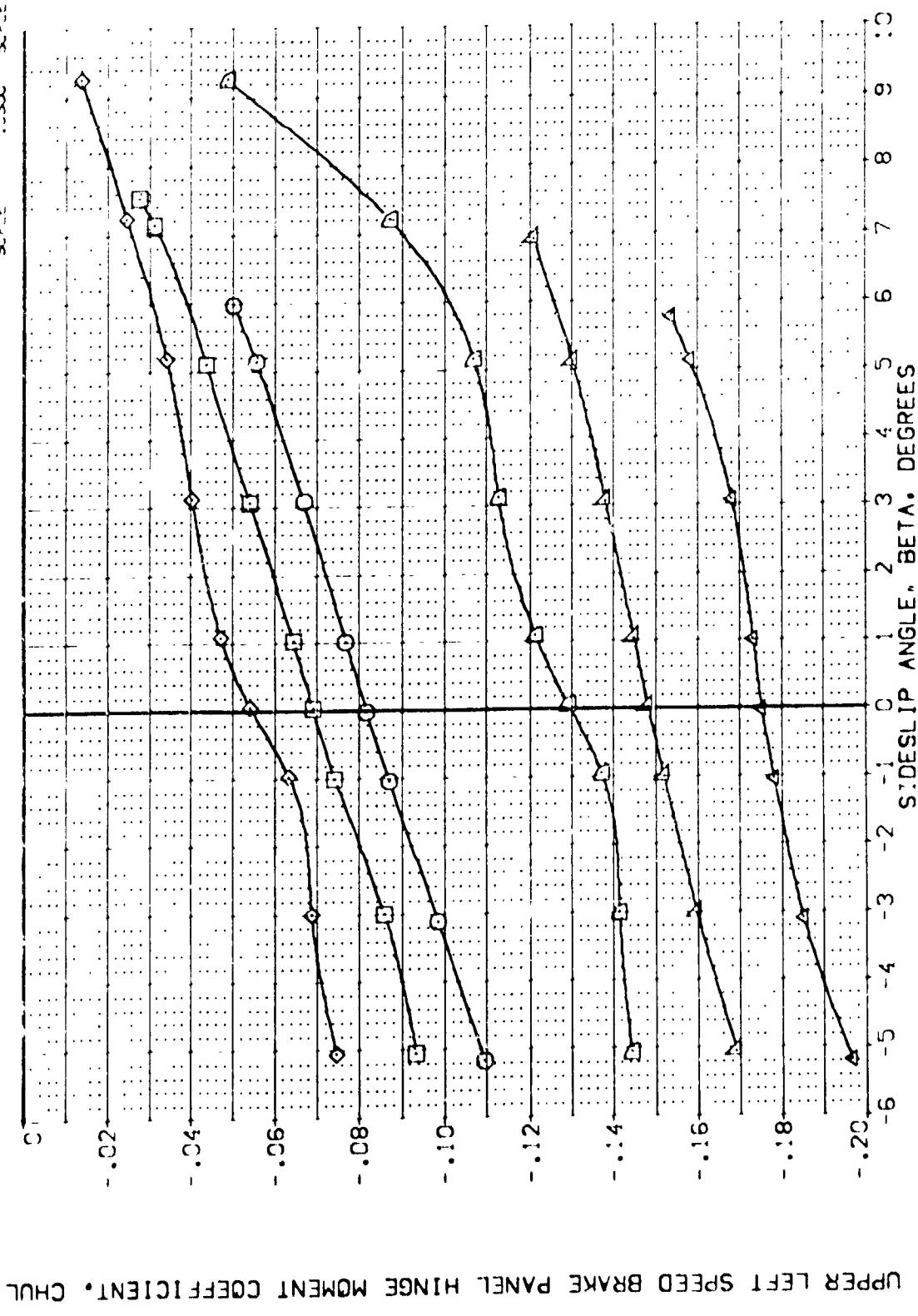


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

CAS/MACH = 1.60

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	EDFLAP	SPODBK	REFERENCE INFORMATION
(YER025)	ARC 97-747 CAS38 B C M F V I V	.000	.000	-.700	25.000	SREF 2.4210 SCAL 1.0
(YER026)	ARC 97-747 CAS38 B C M F V I V	10.000	.000	-.700	25.000	LREF 14.2440
(YER027)	ARC 97-747 CAS38 B C M F V I V	20.000	.000	-.700	25.000	RREF 28.1004
(YER012)	ARC 97-747 CAS38 B C M F V I V	.000	.000	-.700	55.000	XREF 37.3000
(YER013)	ARC 97-747 CAS38 B C M F V I V	10.000	.000	-.700	55.000	YREF 11.7500
(YER014)	ARC 97-747 CAS38 B C M F V I V	20.000	.000	-.700	55.000	ZREF 11.7500

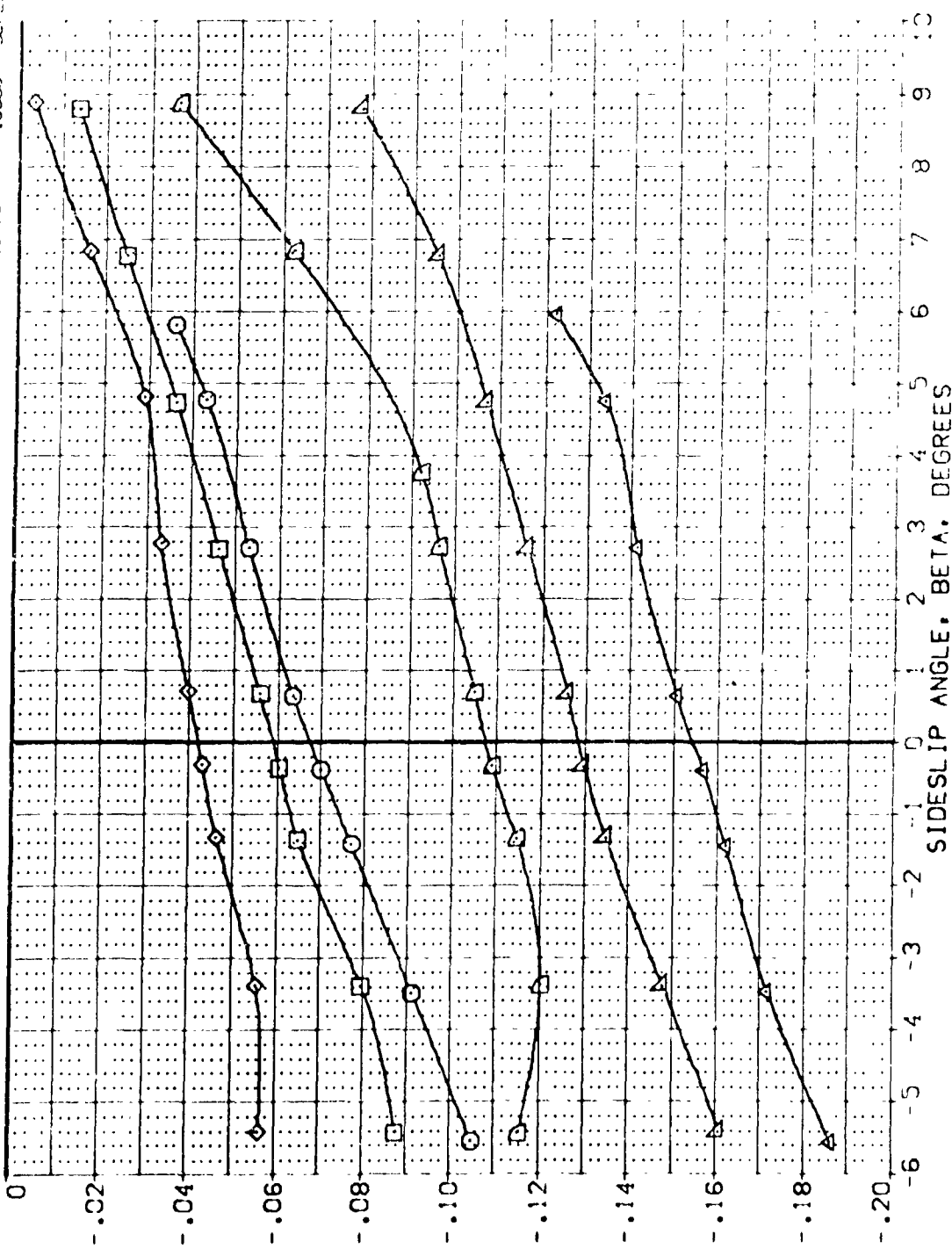


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	10.000	.000	-1.700	25.000	SREF 2.4210
ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	20.000	.000	-1.700	25.000	REF 14.2445
ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	10.000	.000	-1.700	55.000	BPX 28.1004
ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	10.000	.000	-1.700	55.000	YMRP 97.3010
ARC 97-747	CA538	B	C	M	F	V	V	NM	RV/L	20.000	.000	-1.700	55.000	ZMRP 11.7500
														SCALE .0300

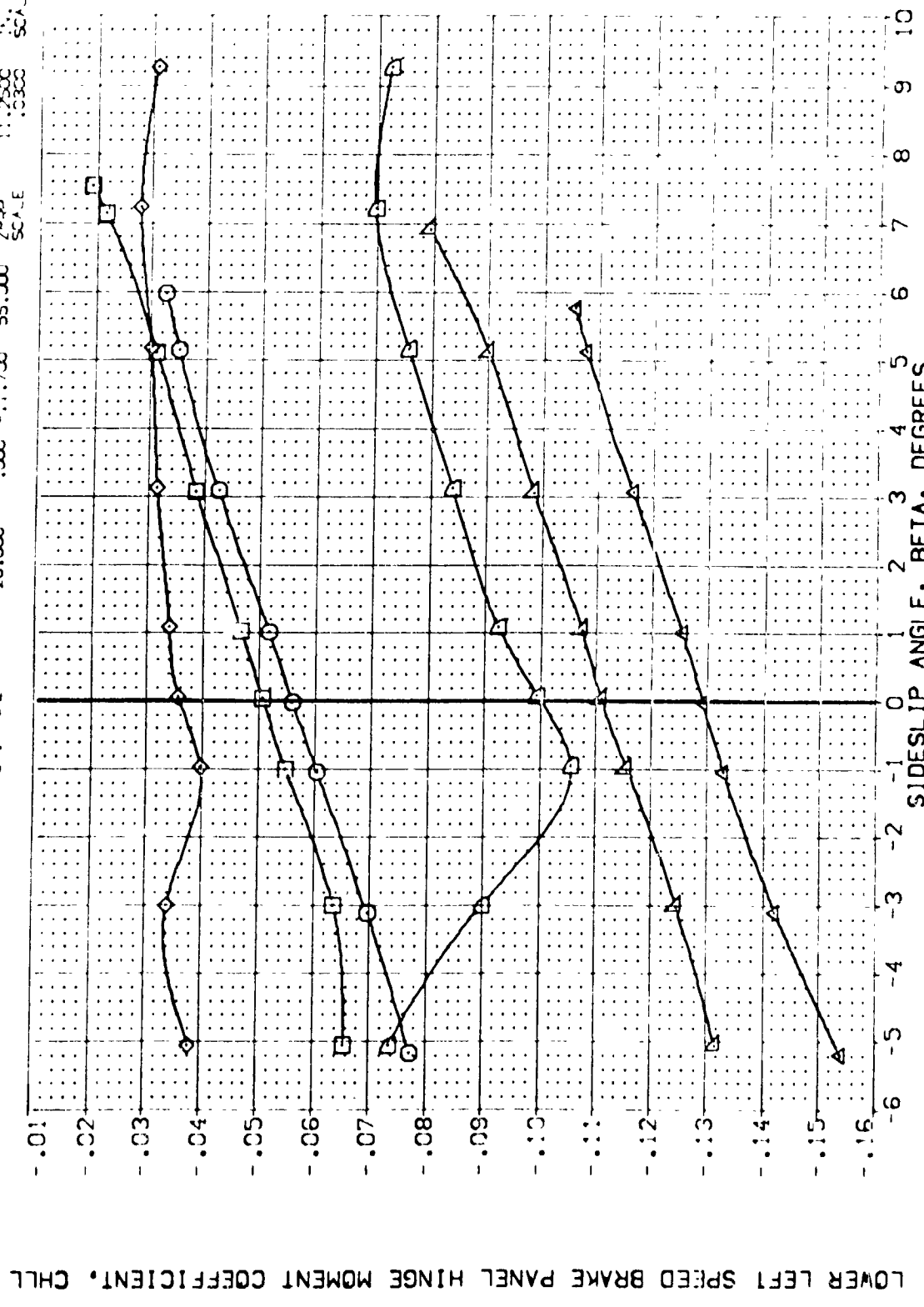


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION: REFERENCE INFORMATION: SCALE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	SOFLAP	SPEED	REFERENCE INFORMATION	SCALE
VEPC075	APC 97-747 CA538 B C M F V	10.000	.000	.700	25.000	2.4212	50.000
VEPC076	APC 97-747 CA538 B C M F V	10.000	.000	.700	25.000	4.2445	50.000
VEPC077	APC 97-747 CA538 B C M F V	20.000	.000	.700	25.000	28.1004	50.000
VEPC078	APC 97-747 CA538 B C M F V	20.000	.000	.700	25.000	32.3000	50.000
VEPC079	APC 97-747 CA538 B C M F V	10.000	.000	.700	25.000	27.5000	50.000
VEPC080	APC 97-747 CA538 B C M F V	20.000	.000	.700	25.000	33.3000	50.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

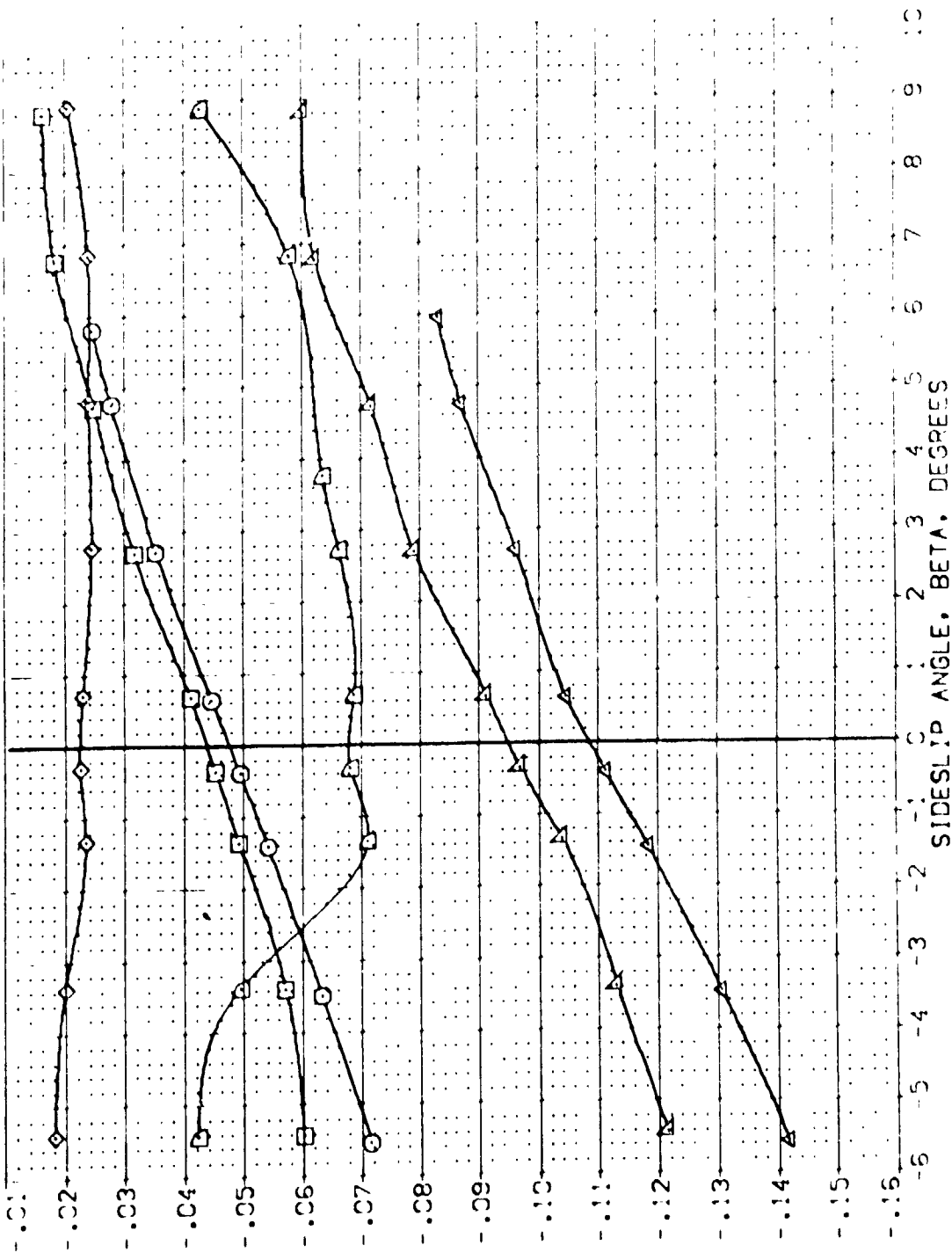


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES PUDDER

(3)MAG. = 2.00



UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RV/L	ALPHA	RUDDER	BOG LAP	SPDRK	REFERENCE INFORMATION	SCALE
VEP025	APC 97-747 C4538 B C M F V	NO.	RV/L	.000	.000	.700	25.000	SREF 2.4210	SCALE
VEP026	APC 97-747 C4538 B C M F V	NO.	RV/L	10.000	.000	.700	25.000	LREF 14.2440	SCALE
VEP027	APC 97-747 C4538 B C M F V	NO.	RV/L	20.000	.000	.700	25.000	SPREF 28.1000	SCALE
VEP012	APC 97-747 C4538 B C M F V	NO.	RV/L	10.000	.000	.700	33.000	AMRD 30.0000	SCALE
VEP013	APC 97-747 C4538 B C M F V	NO.	RV/L	10.000	.000	.700	33.000	VMRD 30.0000	SCALE
VEP014	APC 97-747 C4538 B C M F V	NO.	RV/L	20.000	.000	.700	55.000	ZMRD 11.2500	SCALE

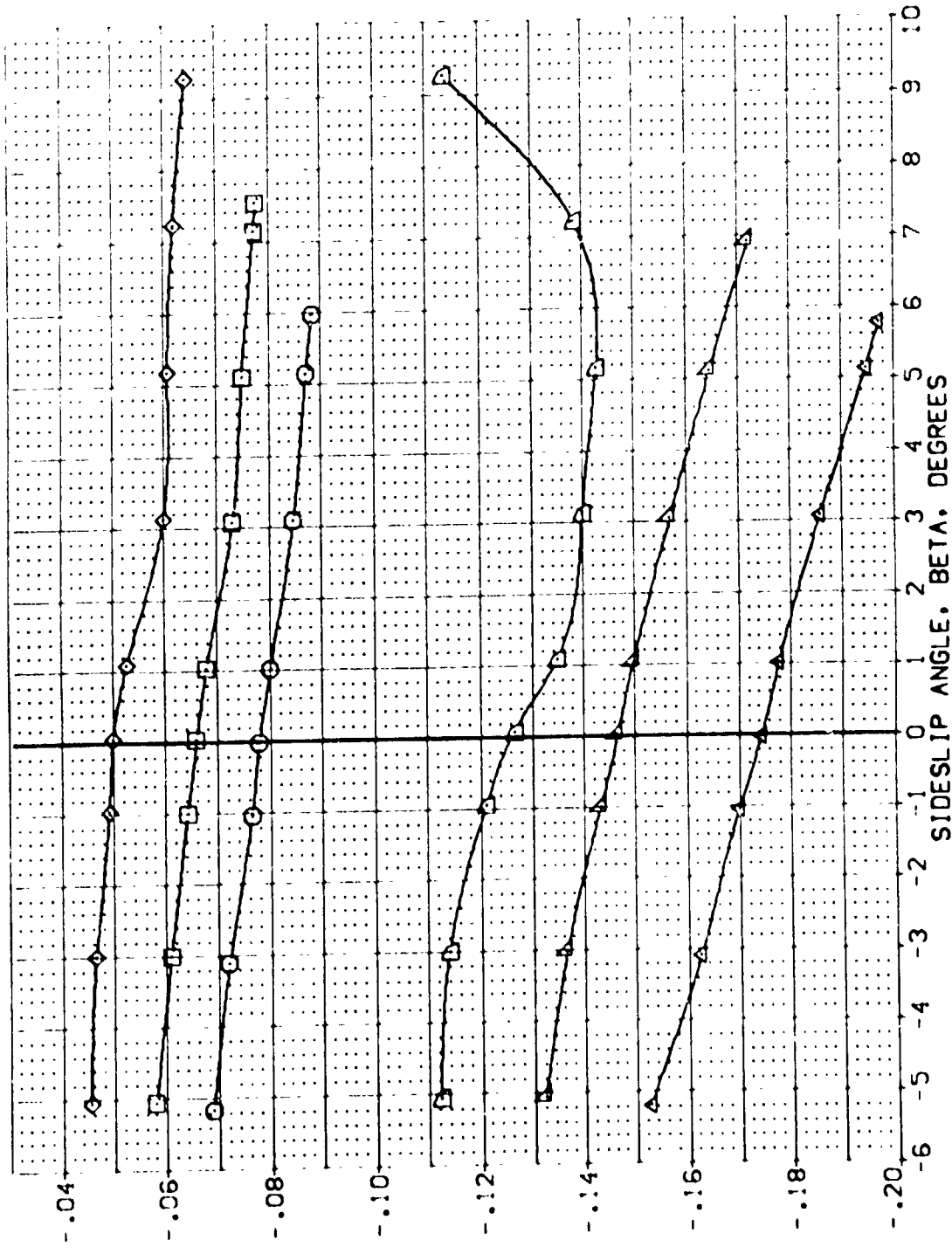


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(A)MACH = 1.60

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NO.	RV/L	ALPHA	RUDDER	BOF/AP	SPEED	REFERENCE INFORMATION
YEP029	ARC 97-747 C4538 B C M F V I	V	RV/L	.000	.000	700	25.000	SPEED 2.4210
YEP026	ARC 97-747 C4538 B C M F V I	V	RV/L	10.000	.000	700	25.000	DEF 1.12410
YEP027	ARC 97-747 C4538 B C M F V I	V	RV/L	20.000	.000	700	25.000	REF 28.3500
YEP012	ARC 97-747 C4538 B C M F V I	V	RV/L	.000	.000	700	55.000	YARD 32.3500
YEP013	ARC 97-747 C4538 B C M F V I	V	RV/L	10.000	.000	700	55.000	ZARD 11.2000
YEP014	ARC 97-747 C4538 B C M F V I	V	RV/L	20.000	.000	700	55.000	SCALE 10.000

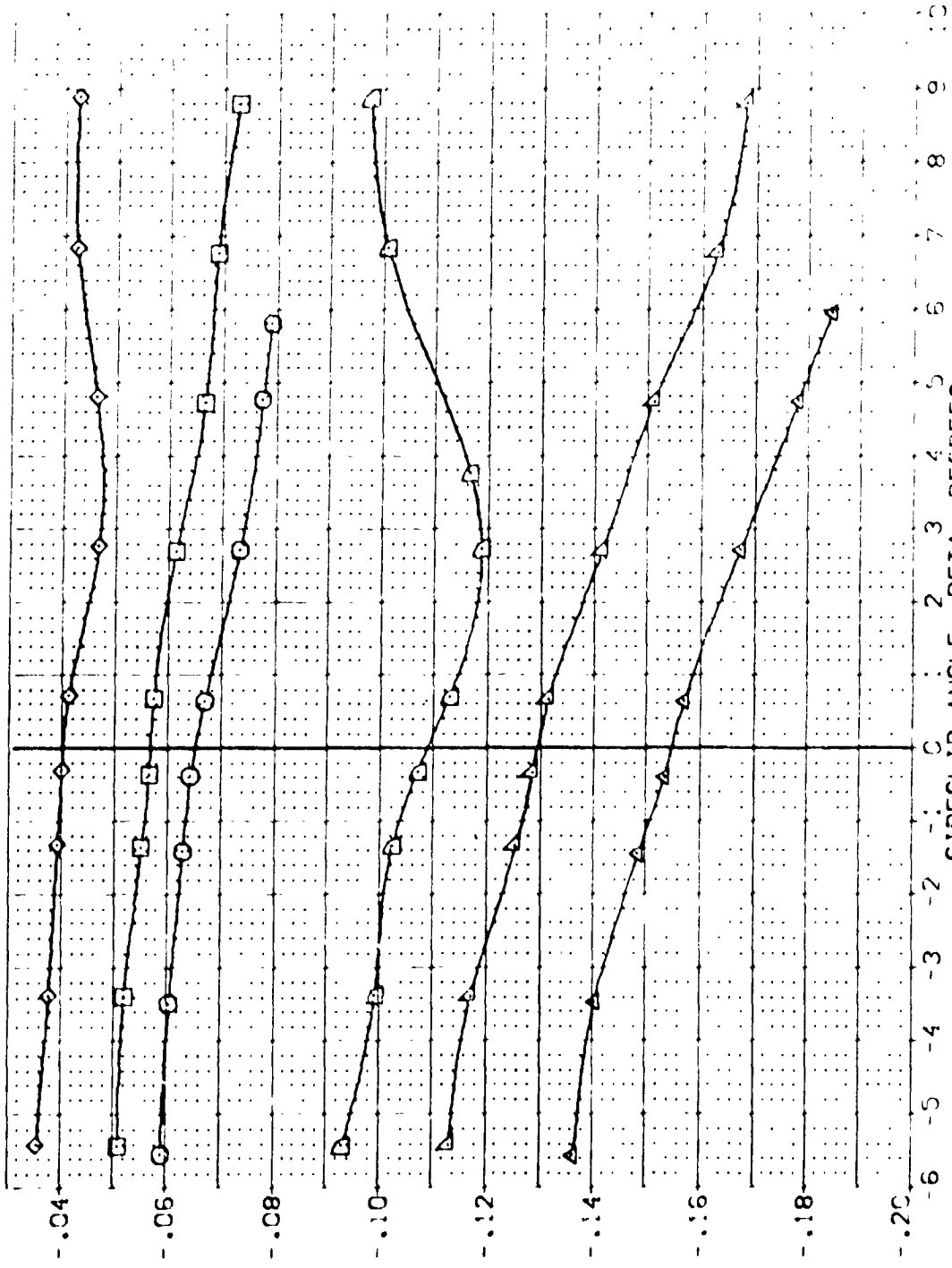


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

CBMAC = 2.00

DATA SET SYMBOL	CONFIGURATION DESIGNATION	ALPHA	RUDDER	EDF TIP	SPOON	REFERENCE INFORMATION
1	1	0.000	0.000	0.000	20.000	2.4215
2	2	10.000	0.000	0.000	20.000	14.2440
3	3	20.000	0.000	0.000	20.000	28.1304
4	4	30.000	0.000	0.000	20.000	37.7850
5	5	40.000	0.000	0.000	20.000	44.0000
6	6	50.000	0.000	0.000	20.000	47.0000
7	7	60.000	0.000	0.000	20.000	48.0000
8	8	70.000	0.000	0.000	20.000	48.0000
9	9	80.000	0.000	0.000	20.000	48.0000
10	10	90.000	0.000	0.000	20.000	48.0000
11	11	100.000	0.000	0.000	20.000	48.0000
12	12	110.000	0.000	0.000	20.000	48.0000
13	13	120.000	0.000	0.000	20.000	48.0000
14	14	130.000	0.000	0.000	20.000	48.0000
15	15	140.000	0.000	0.000	20.000	48.0000
16	16	150.000	0.000	0.000	20.000	48.0000
17	17	160.000	0.000	0.000	20.000	48.0000
18	18	170.000	0.000	0.000	20.000	48.0000
19	19	180.000	0.000	0.000	20.000	48.0000
20	20	190.000	0.000	0.000	20.000	48.0000
21	21	200.000	0.000	0.000	20.000	48.0000
22	22	210.000	0.000	0.000	20.000	48.0000
23	23	220.000	0.000	0.000	20.000	48.0000
24	24	230.000	0.000	0.000	20.000	48.0000
25	25	240.000	0.000	0.000	20.000	48.0000
26	26	250.000	0.000	0.000	20.000	48.0000
27	27	260.000	0.000	0.000	20.000	48.0000
28	28	270.000	0.000	0.000	20.000	48.0000
29	29	280.000	0.000	0.000	20.000	48.0000
30	30	290.000	0.000	0.000	20.000	48.0000
31	31	300.000	0.000	0.000	20.000	48.0000
32	32	310.000	0.000	0.000	20.000	48.0000
33	33	320.000	0.000	0.000	20.000	48.0000
34	34	330.000	0.000	0.000	20.000	48.0000
35	35	340.000	0.000	0.000	20.000	48.0000
36	36	350.000	0.000	0.000	20.000	48.0000
37	37	360.000	0.000	0.000	20.000	48.0000
38	38	370.000	0.000	0.000	20.000	48.0000
39	39	380.000	0.000	0.000	20.000	48.0000
40	40	390.000	0.000	0.000	20.000	48.0000
41	41	400.000	0.000	0.000	20.000	48.0000
42	42	410.000	0.000	0.000	20.000	48.0000
43	43	420.000	0.000	0.000	20.000	48.0000
44	44	430.000	0.000	0.000	20.000	48.0000
45	45	440.000	0.000	0.000	20.000	48.0000
46	46	450.000	0.000	0.000	20.000	48.0000
47	47	460.000	0.000	0.000	20.000	48.0000
48	48	470.000	0.000	0.000	20.000	48.0000
49	49	480.000	0.000	0.000	20.000	48.0000
50	50	490.000	0.000	0.000	20.000	48.0000
51	51	500.000	0.000	0.000	20.000	48.0000
52	52	510.000	0.000	0.000	20.000	48.0000
53	53	520.000	0.000	0.000	20.000	48.0000
54	54	530.000	0.000	0.000	20.000	48.0000
55	55	540.000	0.000	0.000	20.000	48.0000
56	56	550.000	0.000	0.000	20.000	48.0000
57	57	560.000	0.000	0.000	20.000	48.0000
58	58	570.000	0.000	0.000	20.000	48.0000
59	59	580.000	0.000	0.000	20.000	48.0000
60	60	590.000	0.000	0.000	20.000	48.0000
61	61	600.000	0.000	0.000	20.000	48.0000
62	62	610.000	0.000	0.000	20.000	48.0000
63	63	620.000	0.000	0.000	20.000	48.0000
64	64	630.000	0.000	0.000	20.000	48.0000
65	65	640.000	0.000	0.000	20.000	48.0000
66	66	650.000	0.000	0.000	20.000	48.0000
67	67	660.000	0.000	0.000	20.000	48.0000
68	68	670.000	0.000	0.000	20.000	48.0000
69	69	680.000	0.000	0.000	20.000	48.0000
70	70	690.000	0.000	0.000	20.000	48.0000
71	71	700.000	0.000	0.000	20.000	48.0000
72	72	710.000	0.000	0.000	20.000	48.0000
73	73	720.000	0.000	0.000	20.000	48.0000
74	74	730.000	0.000	0.000	20.000	48.0000
75	75	740.000	0.000	0.000	20.000	48.0000
76	76	750.000	0.000	0.000	20.000	48.0000
77	77	760.000	0.000	0.000	20.000	48.0000
78	78	770.000	0.000	0.000	20.000	48.0000
79	79	780.000	0.000	0.000	20.000	48.0000
80	80	790.000	0.000	0.000	20.000	48.0000
81	81	800.000	0.000	0.000	20.000	48.0000
82	82	810.000	0.000	0.000	20.000	48.0000
83	83	820.000	0.000	0.000	20.000	48.0000
84	84	830.000	0.000	0.000	20.000	48.0000
85	85	840.000	0.000	0.000	20.000	48.0000
86	86	850.000	0.000	0.000	20.000	48.0000
87	87	860.000	0.000	0.000	20.000	48.0000
88	88	870.000	0.000	0.000	20.000	48.0000
89	89	880.000	0.000	0.000	20.000	48.0000
90	90	890.000	0.000	0.000	20.000	48.0000
91	91	900.000	0.000	0.000	20.000	48.0000
92	92	910.000	0.000	0.000	20.000	48.0000
93	93	920.000	0.000	0.000	20.000	48.0000
94	94	930.000	0.000	0.000	20.000	48.0000
95	95	940.000	0.000	0.000	20.000	48.0000
96	96	950.000	0.000	0.000	20.000	48.0000
97	97	960.000	0.000	0.000	20.000	48.0000
98	98	970.000	0.000	0.000	20.000	48.0000
99	99	980.000	0.000	0.000	20.000	48.0000
100	100	990.000	0.000	0.000	20.000	48.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{HR}

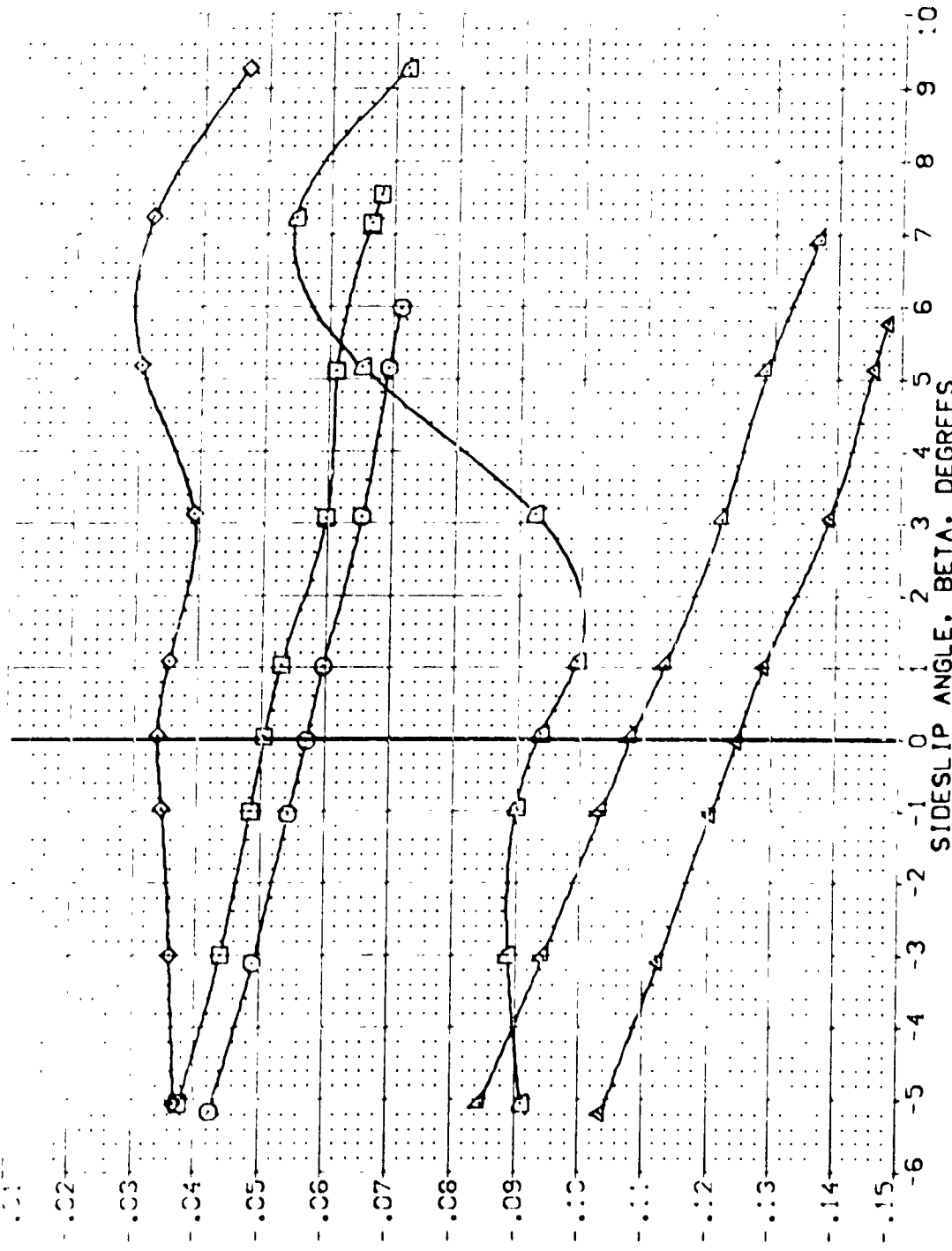


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER

(A) MAC = 0.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

VEP025	ABC 97-747 D-538 B C M F V	SPRS	2.4210
VEP026	ABC 97-747 D-538 B C M F V	SPRS	14.2440
VEP027	ABC 97-747 D-538 B C M F V	SPRS	37.1300
VEP028	ABC 97-747 D-538 B C M F V	SPRS	70.0000
VEP029	ABC 97-747 D-538 B C M F V	SPRS	100.0000
VEP030	ABC 97-747 D-538 B C M F V	SPRS	130.0000
VEP031	ABC 97-747 D-538 B C M F V	SPRS	160.0000
VEP032	ABC 97-747 D-538 B C M F V	SPRS	190.0000
VEP033	ABC 97-747 D-538 B C M F V	SPRS	220.0000
VEP034	ABC 97-747 D-538 B C M F V	SPRS	250.0000
VEP035	ABC 97-747 D-538 B C M F V	SPRS	280.0000
VEP036	ABC 97-747 D-538 B C M F V	SPRS	310.0000
VEP037	ABC 97-747 D-538 B C M F V	SPRS	340.0000
VEP038	ABC 97-747 D-538 B C M F V	SPRS	370.0000
VEP039	ABC 97-747 D-538 B C M F V	SPRS	400.0000
VEP040	ABC 97-747 D-538 B C M F V	SPRS	430.0000
VEP041	ABC 97-747 D-538 B C M F V	SPRS	460.0000
VEP042	ABC 97-747 D-538 B C M F V	SPRS	490.0000
VEP043	ABC 97-747 D-538 B C M F V	SPRS	520.0000
VEP044	ABC 97-747 D-538 B C M F V	SPRS	550.0000
VEP045	ABC 97-747 D-538 B C M F V	SPRS	580.0000
VEP046	ABC 97-747 D-538 B C M F V	SPRS	610.0000
VEP047	ABC 97-747 D-538 B C M F V	SPRS	640.0000
VEP048	ABC 97-747 D-538 B C M F V	SPRS	670.0000
VEP049	ABC 97-747 D-538 B C M F V	SPRS	700.0000
VEP050	ABC 97-747 D-538 B C M F V	SPRS	730.0000
VEP051	ABC 97-747 D-538 B C M F V	SPRS	760.0000
VEP052	ABC 97-747 D-538 B C M F V	SPRS	790.0000
VEP053	ABC 97-747 D-538 B C M F V	SPRS	820.0000
VEP054	ABC 97-747 D-538 B C M F V	SPRS	850.0000
VEP055	ABC 97-747 D-538 B C M F V	SPRS	880.0000
VEP056	ABC 97-747 D-538 B C M F V	SPRS	910.0000
VEP057	ABC 97-747 D-538 B C M F V	SPRS	940.0000
VEP058	ABC 97-747 D-538 B C M F V	SPRS	970.0000
VEP059	ABC 97-747 D-538 B C M F V	SPRS	1000.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

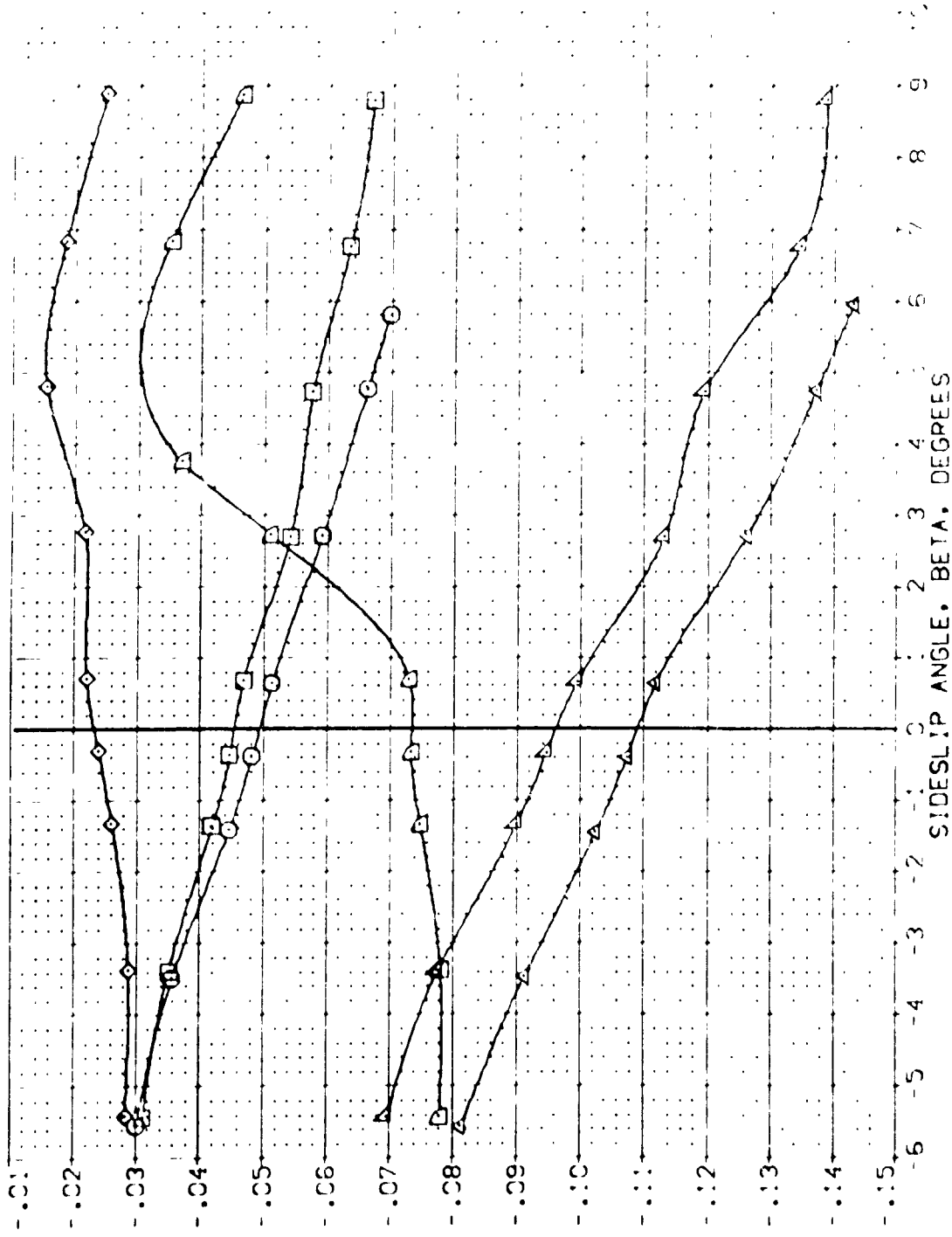


FIG. 32 RUDDER HINGE MOMENTS, 0.0 DEGREES RUDDER
(B)MAC = 2.00



SYMBOL	DESCRIPTION	ALPHA	RUDDER	BOF AP	SPURRY	REFERENCE INFORMATION
(A)	APC 5074	10.000	10.000	1.700	25.000	2.420
(B)	APC 5074	15.000	10.000	1.700	25.000	4.264
(C)	APC 5074	20.000	10.000	1.700	25.000	28.000
(D)	APC 5074	10.000	12.000	1.700	25.000	37.300
(E)	APC 5074	10.000	15.000	1.700	25.000	37.300
(F)	APC 5074	20.000	15.000	1.700	25.000	37.300
(G)	APC 5074	10.000	15.000	1.700	25.000	37.300
(H)	APC 5074	20.000	15.000	1.700	25.000	37.300
(I)	APC 5074	10.000	15.000	1.700	25.000	37.300
(J)	APC 5074	20.000	15.000	1.700	25.000	37.300

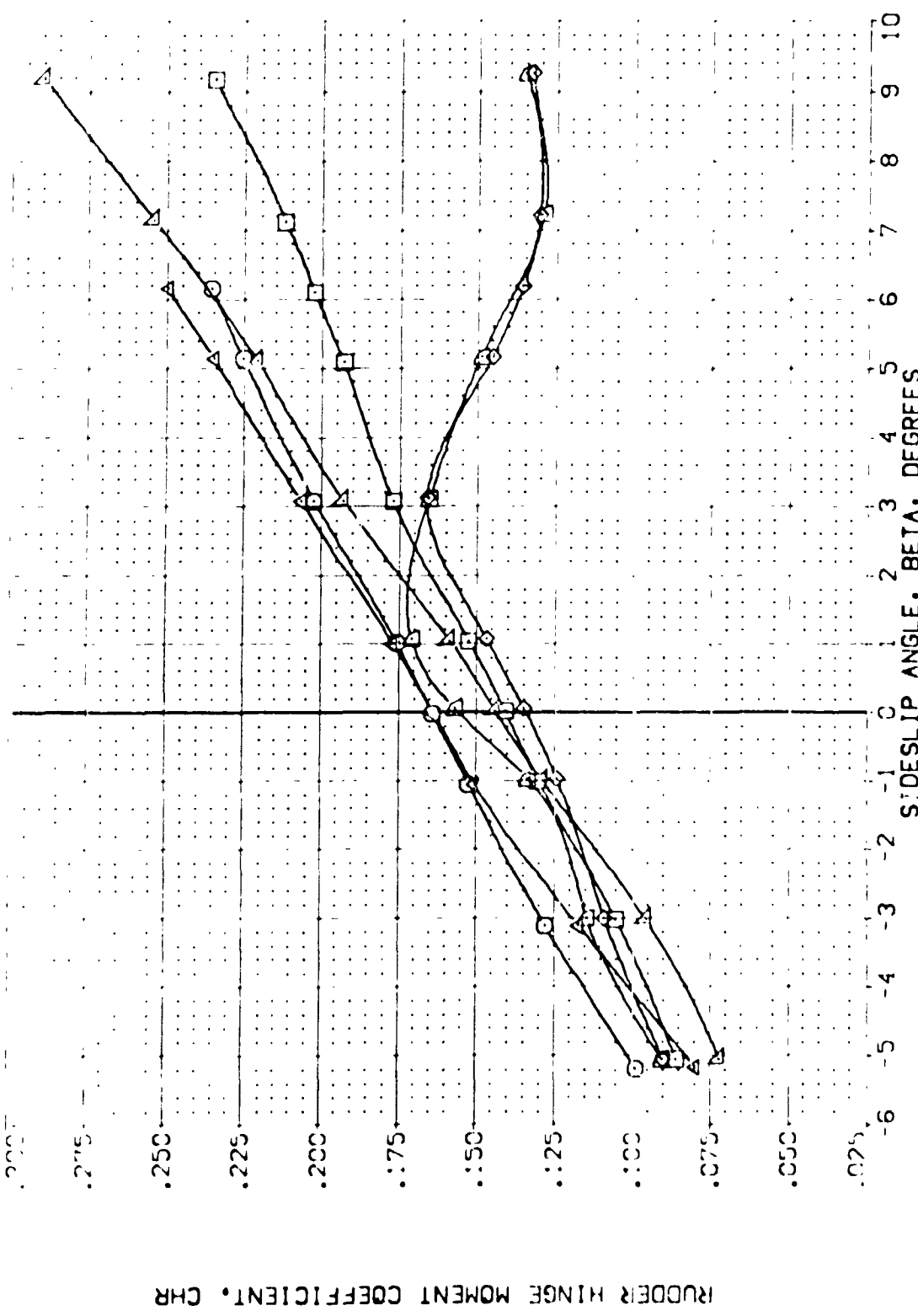


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(A) MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RV/L	ALPHA	RUDDER	BOF LAP	SPDRM	REFERENCE INFORMATION
[VEK35]	ARC 97-747 C4538 B C M F V	V	10.000	-10.000	1.700	25.000	SREF 2.4210
[VEK36]	ARC 97-747 C4538 B C M F V	V	10.000	-10.000	1.700	25.000	REF 14.1040
[VEK37]	ARC 97-747 C4538 B C M F V	V	20.000	-10.000	1.700	25.000	SREF 28.1004
[VEK38]	ARC 97-747 C4538 B C M F V	V	10.000	-10.000	1.700	25.000	REF 32.1000
[VEK39]	ARC 97-747 C4538 B C M F V	V	10.000	-10.000	1.700	25.000	REF 32.1000
[VEK31]	ARC 97-747 C4538 B C M F V	V	20.000	-10.000	1.700	25.000	REF 11.1000
							SCALE

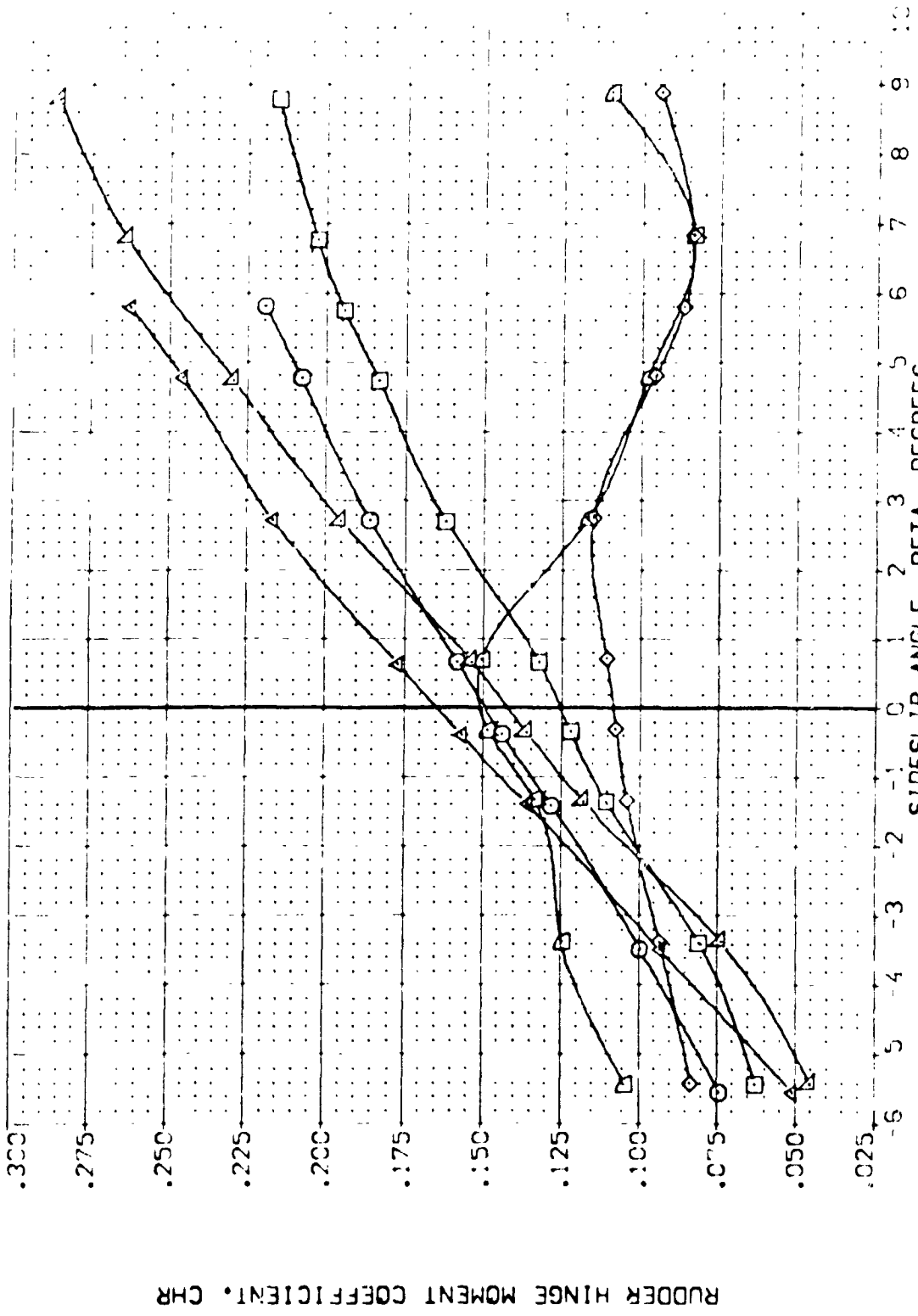


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00



DATA S. SYMBOL COEFFICIENT DESCRIPTION

VE(53)	ABC	9700	04539	B	C	1	1
VE(54)	ABC	9700	04539	B	C	1	1
VE(55)	ABC	9700	04539	B	C	1	1
VE(56)	ABC	9700	04539	B	C	1	1
VE(57)	ABC	9700	04539	B	C	1	1
VE(58)	ABC	9700	04539	B	C	1	1
VE(59)	ABC	9700	04539	B	C	1	1
VE(60)	ABC	9700	04539	B	C	1	1

ALPHA P-DOEP BOE AP SPOFA-
 000 -10.000 10.000 20.000
 10.000 -10.000 10.000 20.000
 20.000 -10.000 10.000 20.000
 30.000 -10.000 10.000 20.000
 40.000 -10.000 10.000 20.000
 50.000 -10.000 10.000 20.000
 60.000 -10.000 10.000 20.000
 70.000 -10.000 10.000 20.000
 80.000 -10.000 10.000 20.000
 90.000 -10.000 10.000 20.000
 SCALE SCALE

REFERENCE INFORMATION:
 2.4210 SCALE
 1.2440 SCALE
 28.3000 SCALE
 30.0000 SCALE
 10.0000 SCALE
 10.0000 SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL

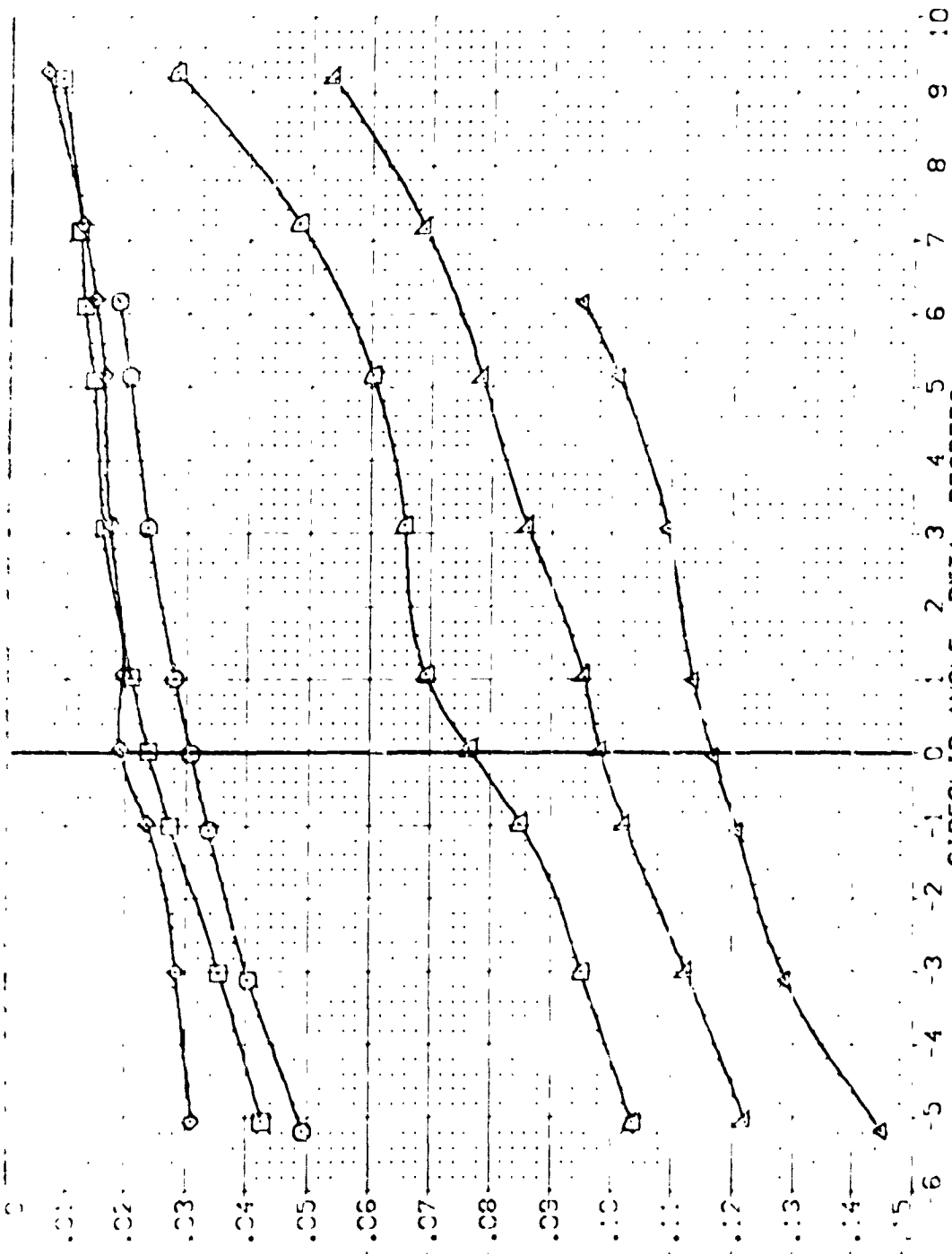


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(A) MAC = 1.60

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	V	W	REF	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION	SCALE
(YK035)	ARC 97-747 0A538 B C C M F F V I V V	0.000	-10.000	-11.700	25.000	7.4710	SREF	14.2440	SO.F.	
(YK036)	ARC 97-747 0A538 B C C M F F V I V V	10.000	-10.000	-11.700	25.000	14.2440	LREF	28.1004		
(YK037)	ARC 97-747 0A538 B C C M F F V I V V	20.000	-10.000	-11.700	55.000	32.3010	BRF	50.000		
(YK029)	ARC 97-747 0A538 B C C M F F V I V V	10.000	-10.000	-11.700	55.000	50.000	YMRP	55.000		
(YK030)	ARC 97-747 0A538 B C C M F F V I V V	10.000	-10.000	-11.700	55.000	55.000	ZMRP	55.000		

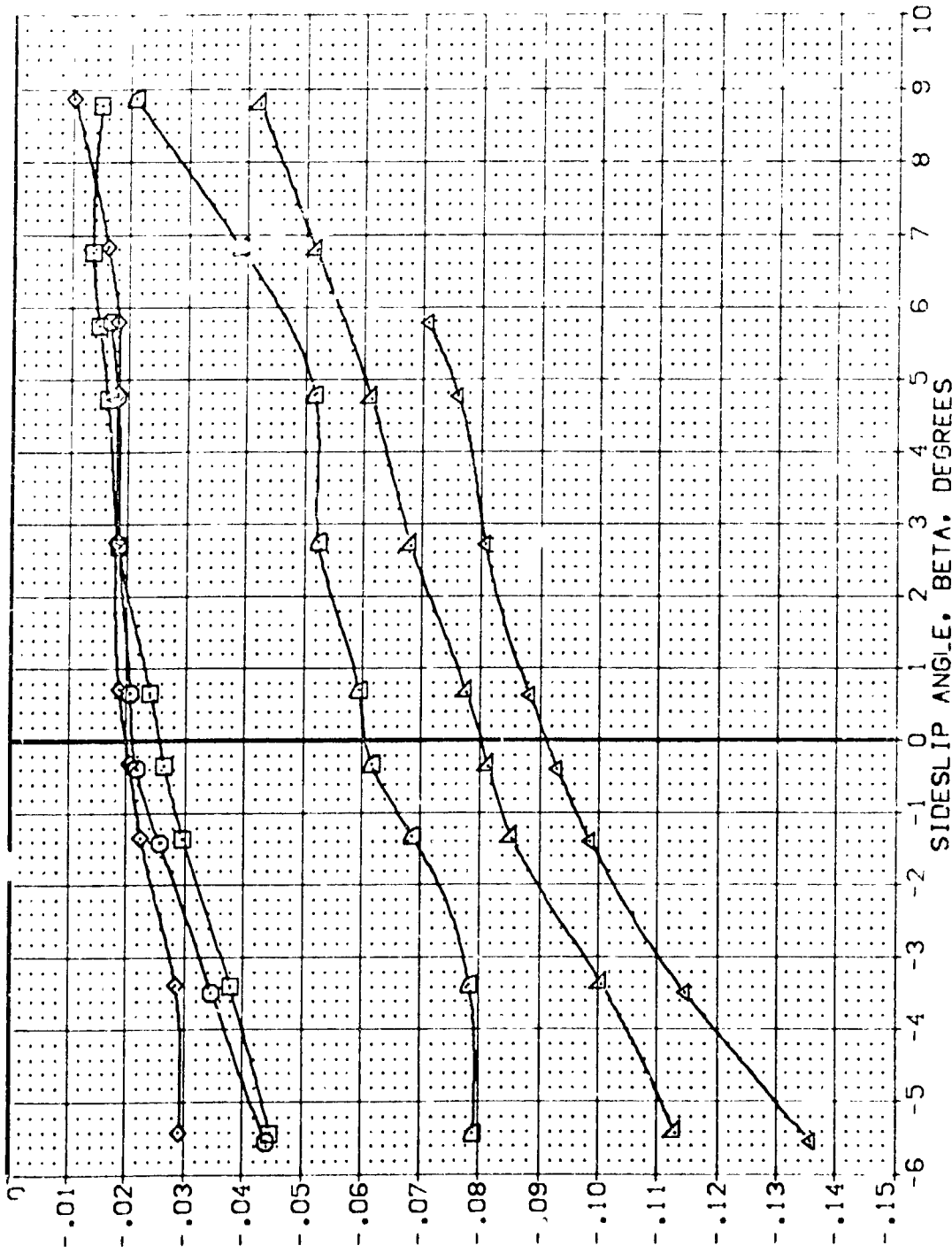


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATIO DESCRIPTION

(YK035)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L
(YK036)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L
(YK037)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L
(YK038)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L
(YK039)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L
(YK040)	ARC 97-747	B 538	B 0 0 0 0 0 0 0 0	Y	NO.	RV/L

ALPHA P-UDDER BOF LAP SPOBRK REFERENCE INFORMATION

10.000	-10.000	-11.700	75.000	SPEED	2.4210	SC.F.T.
20.000	-10.000	-11.700	75.000	SPEED	14.2440	SC.F.T.
30.000	-10.000	-11.700	75.000	SPEED	28.1000	SC.F.T.
40.000	-10.000	-11.700	75.000	SPEED	37.3010	SC.F.T.
50.000	-10.000	-11.700	75.000	SPEED	46.5020	SC.F.T.
60.000	-10.000	-11.700	75.000	SPEED	55.7030	SC.F.T.

SCALE SCALE SCALE SCALE SCALE

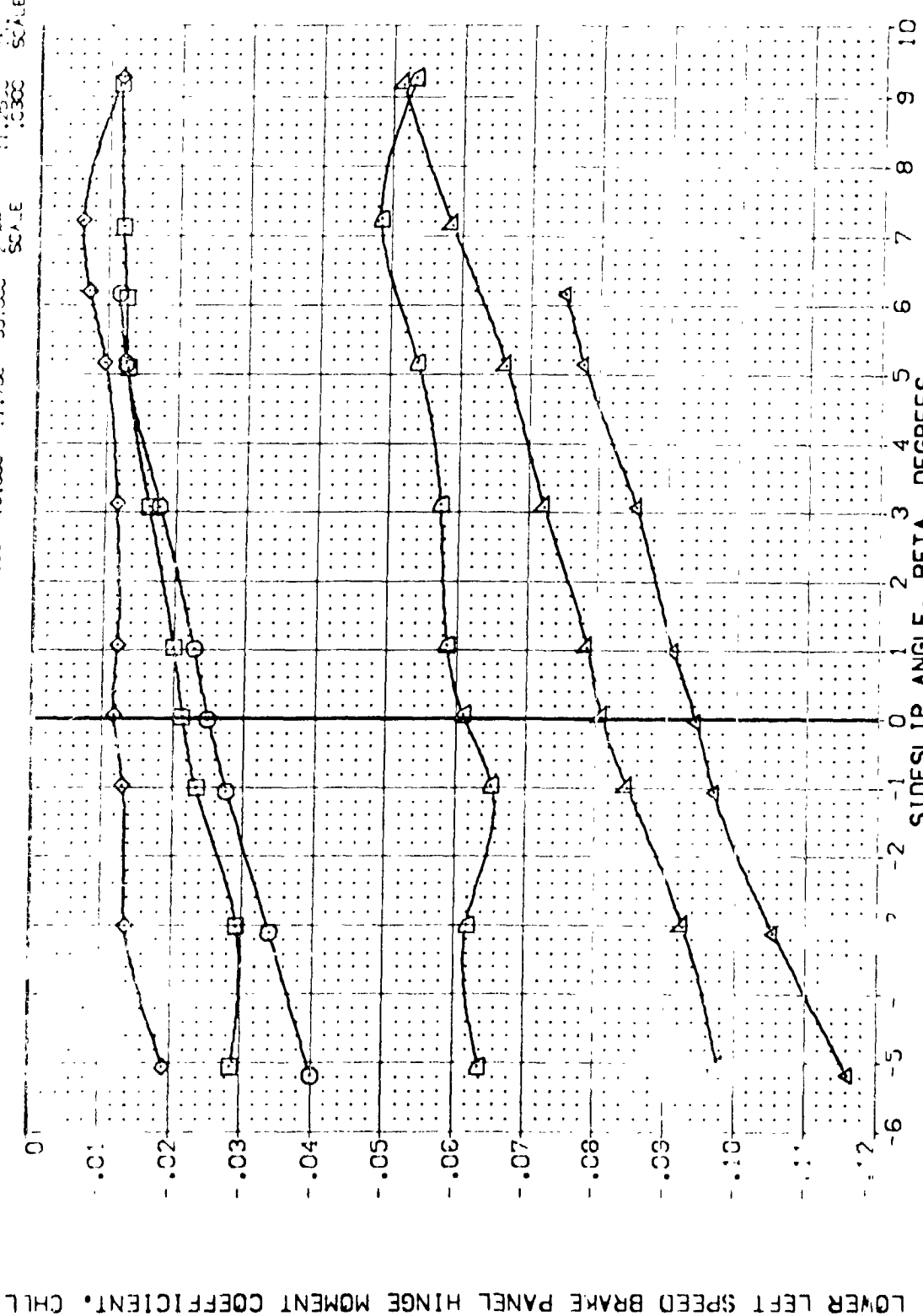


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(M)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(Y)EK035	ARC 97-747	0A538 B C M F V I	SREF	2.4210	50. FT.
(Y)EK036	ARC 97-747	0A538 B C M F V I	LREF	14.2440	
(Y)EK037	ARC 97-747	0A538 B C M F V I	BREF	28.1004	
(Y)EK038	ARC 97-747	0A538 B C M F V I	XMRP	32.0000	
(Y)EK039	ARC 97-747	0A538 B C M F V I	YMRP	55.0000	
(Y)EK031	ARC 97-747	0A538 B C M F V I	ZMRP	11.0000	

ALPHA RUDDER BDLAP SPDBRK SCA.E

0.000	-10.000	-11.700	25.000	
10.000	-10.000	-11.700	25.000	
20.000	-10.000	-11.700	25.000	
10.000	-10.000	-11.700	55.000	
20.000	-10.000	-11.700	55.000	

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

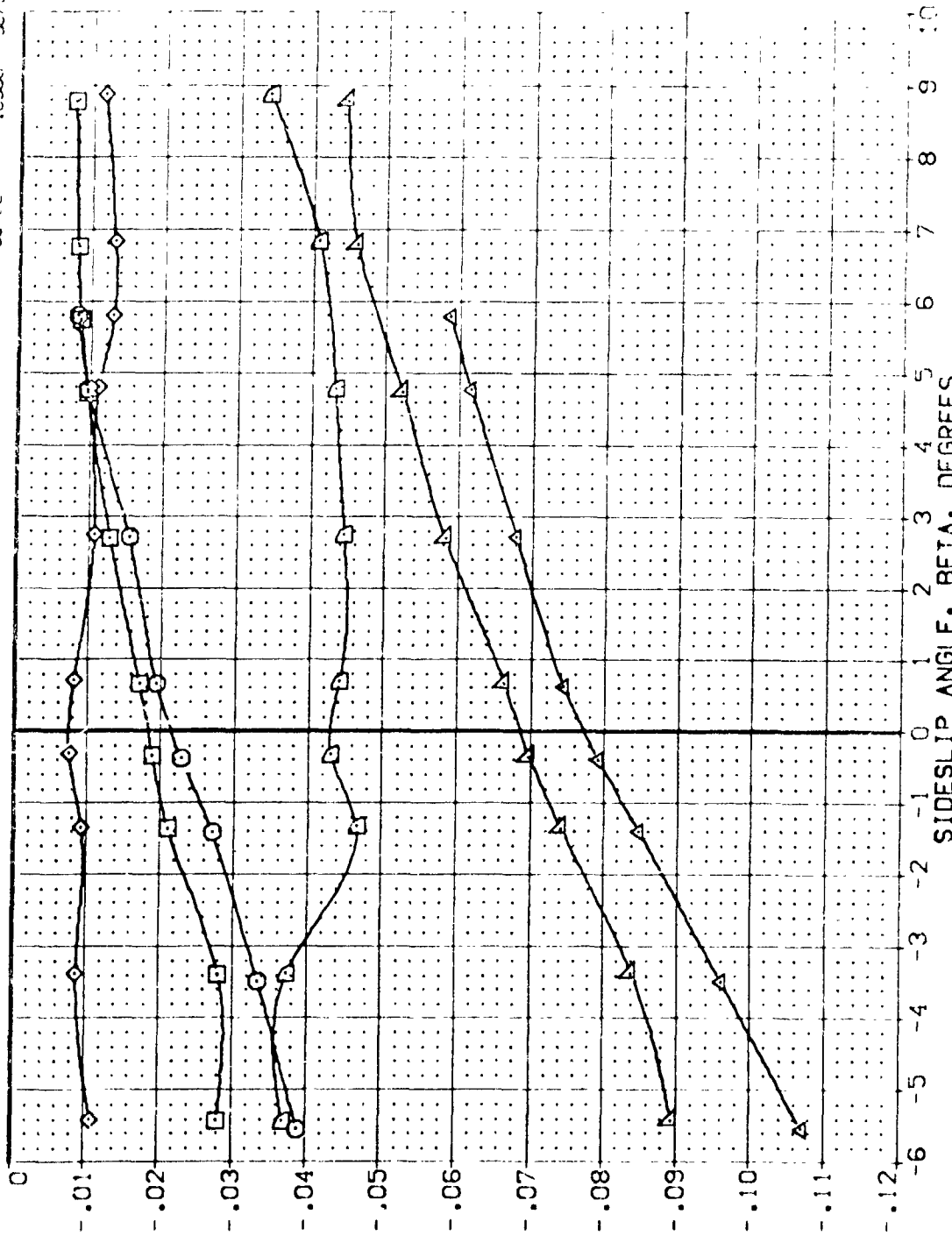


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL INFORMATION DESCRIPTION

YEP03	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP036	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP037	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP038	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP039	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP030	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA
YEP031	ABC	90-740	CAS33	B	C	A	F	V	Y	NO	NA	NA

ALPHA RUDDER BOFLAP SPEEDR

0.000	0.000	-11.700	25.000
10.000	0.000	-11.700	25.000
20.000	0.000	-11.700	25.000
30.000	0.000	-11.700	25.000
40.000	0.000	-11.700	25.000
50.000	0.000	-11.700	25.000
60.000	0.000	-11.700	25.000
70.000	0.000	-11.700	25.000
80.000	0.000	-11.700	25.000
90.000	0.000	-11.700	25.000

REFERENCE INFORMATION

SPEED	24210	50.117
REF	1412440	
WIND	32.300	
WIND	11.700	
WIND	10.300	
SCALE		

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{HUR}

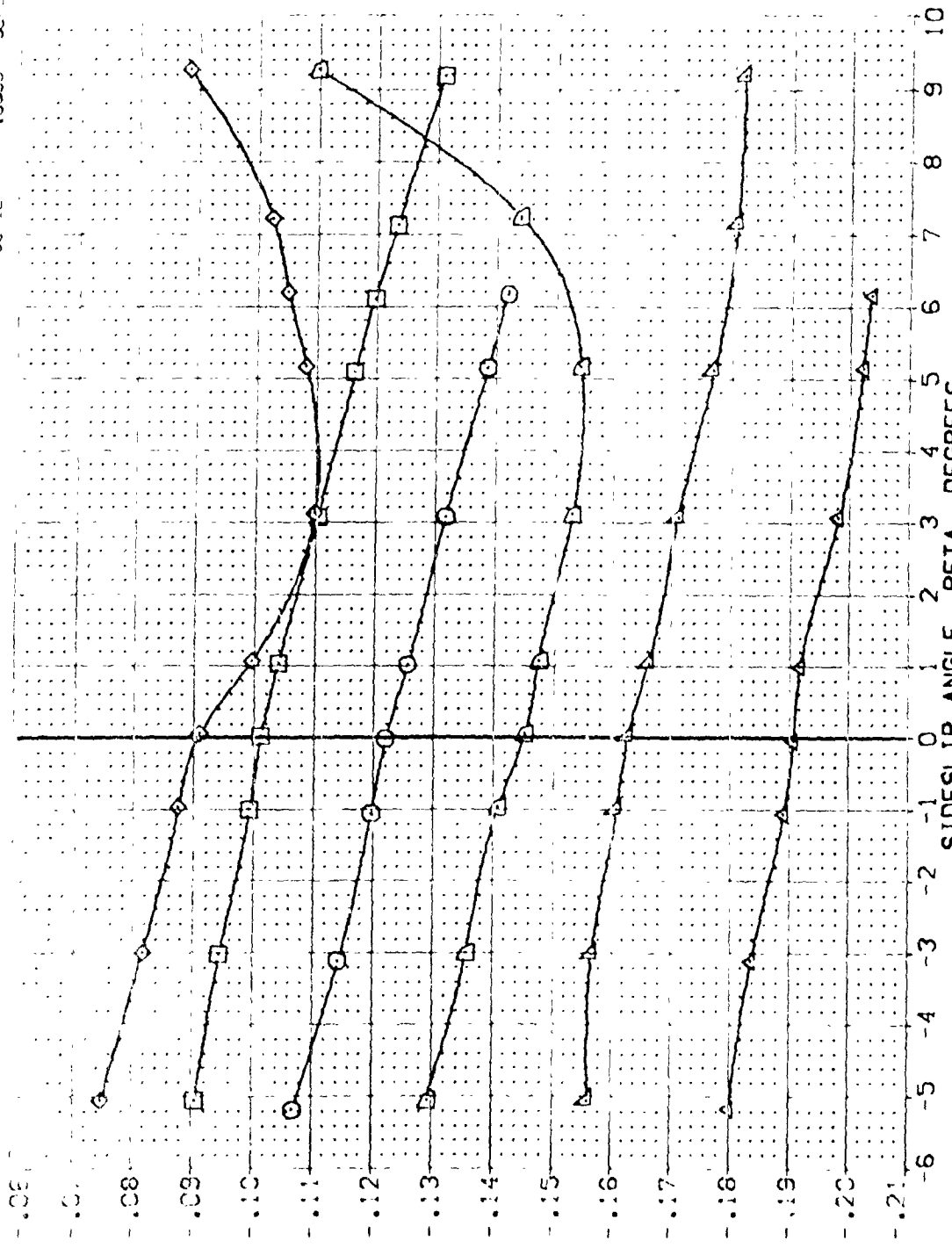


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(M)MACH = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON. RV/L	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INCOMPANION
[YEQ035]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	.000	-10.000	-11.700	25.000	SREF 2.4210
[YEQ036]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	10.000	-10.000	-11.700	25.000	LREF 14.2440
[YEQ037]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	20.000	-10.000	-11.700	25.000	BREF 28.1000
[YEQ029]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	10.000	-10.000	-11.700	55.000	XMRP 32.3000
[YEQ030]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	10.000	-10.000	-11.700	55.000	YMRP 12.2000
[YEQ031]	ARC 97-747 OAS38 B C M F VI V	NON. RV/L	20.000	-10.000	-11.700	55.000	ZMRP 11.2000
							SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

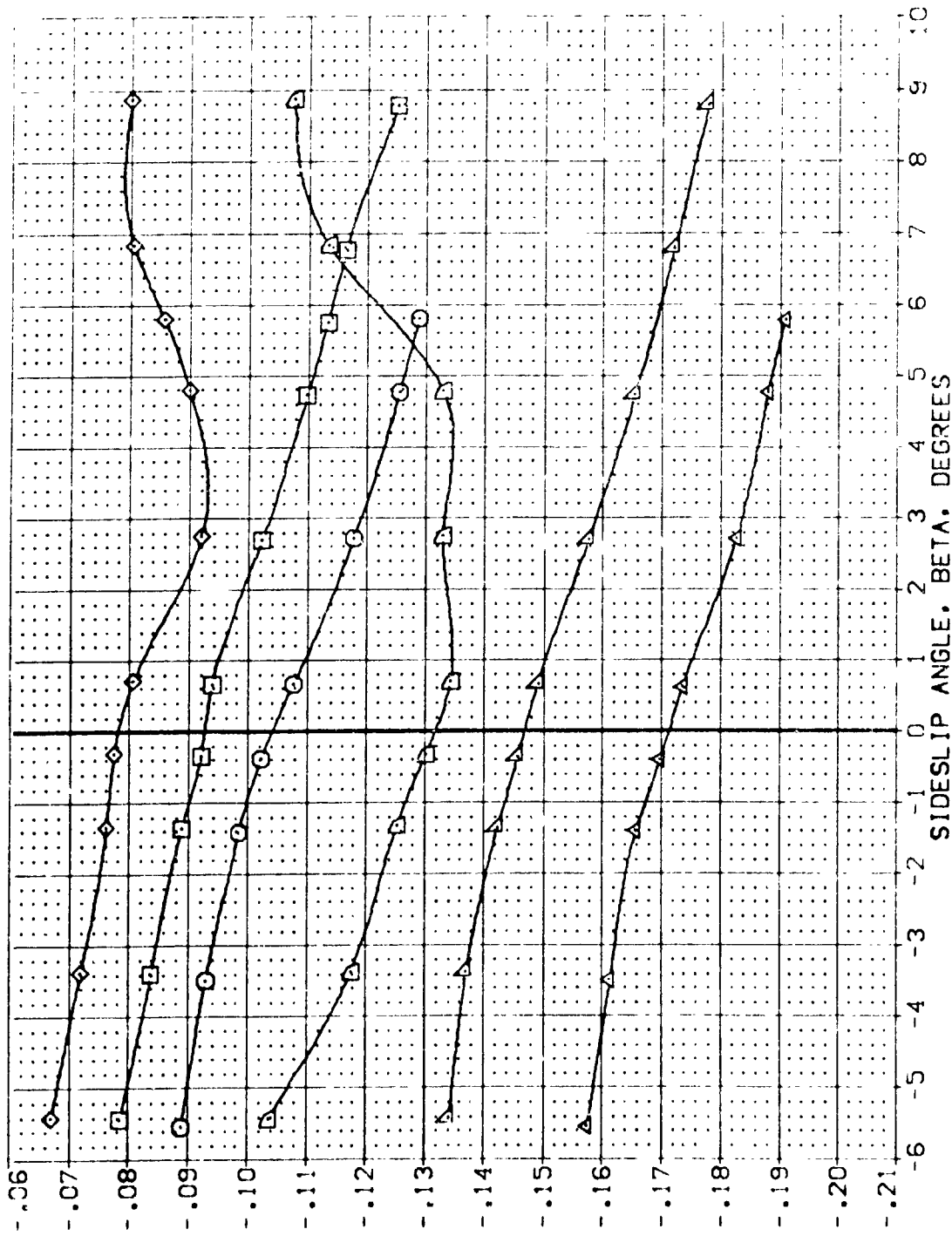


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00

DATA SET SYMBOL: **WIND**
 (VELOC1) (VELOC2) (VELOC3) (VELOC4) (VELOC5) (VELOC6) (VELOC7) (VELOC8) (VELOC9) (VELOC10)

CONFIGURATION	DESCRIPTION	Y	NOM.	RV/L	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
ARC 97-747	0A538 B	C H E V	0	RV/L	10.000	-10.000	-.700	25.000	SREF 2.4210
ARC 97-747	0A538 B	C H E V	0	RV/L	10.000	-10.000	-.700	25.000	LREF 14.2440
ARC 97-747	0A538 B	C H E V	0	RV/L	20.000	-10.000	-.700	25.000	BREF 29.1064
ARC 97-747	0A538 B	C H E V	0	RV/L	10.000	-10.000	-.700	55.000	XMRF 37.3010
ARC 97-747	0A538 B	C H E V	0	RV/L	10.000	-10.000	-.700	55.000	YMRF 11.2000
ARC 97-747	0A538 B	C H E V	0	RV/L	20.000	-10.000	-.700	55.000	ZMRF 11.2000
									SCALE .0300

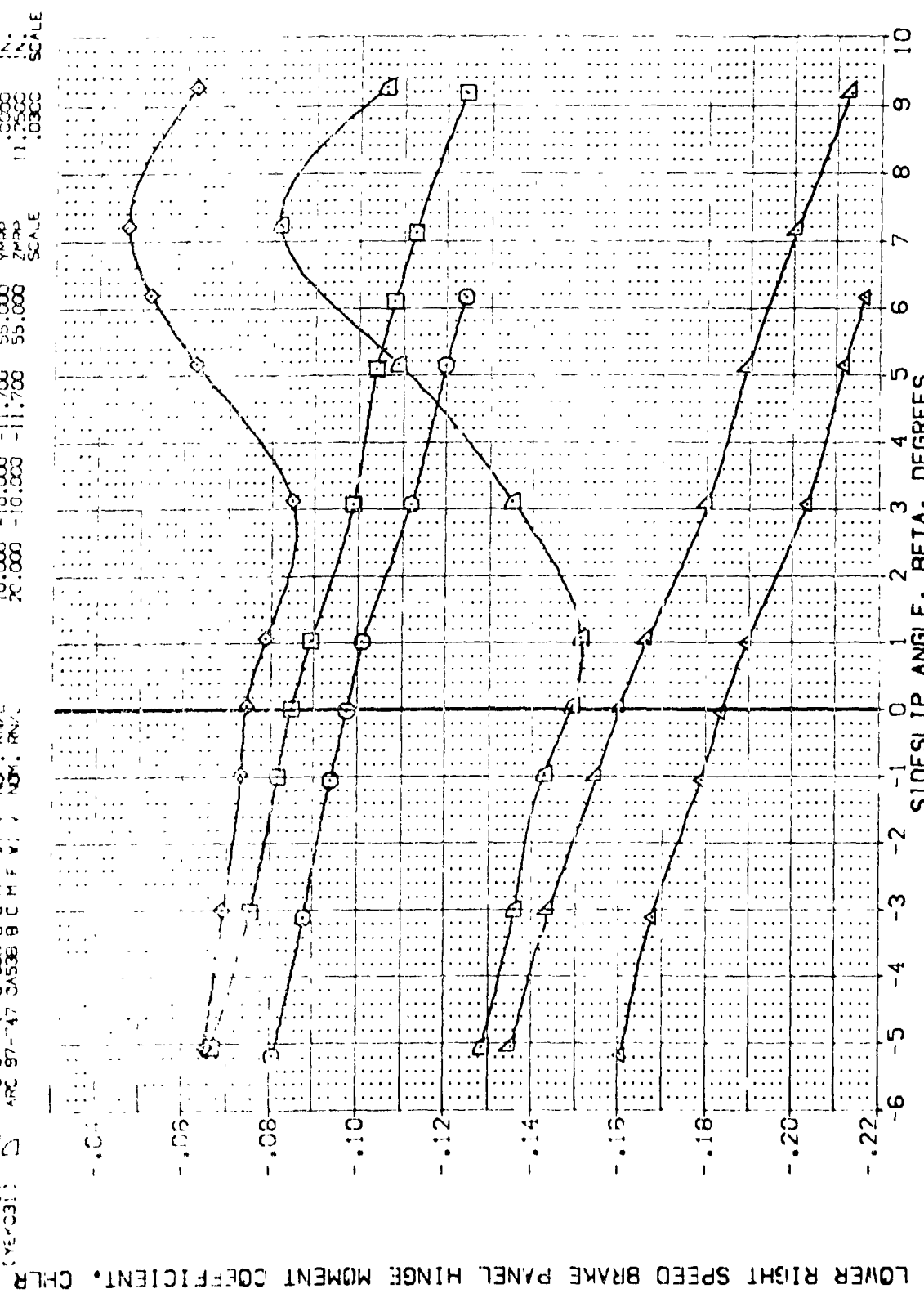


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(A)MACH = 1.60

DATA SET SYMBOL: (YEP026), (YEP036), (YEP037), (YEP039), (YEP030), (YEP031)

CONFIGURATION DESCRIPTION	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	ALPHA	RUDDER	BOF LAP	SPODBK	REFERENCE INFORMATION
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	10.000	-10.000	11.700	25.000	SREF 2.4210
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	20.000	-10.000	11.700	25.000	DFE 14.2442
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	30.000	-10.000	11.700	25.000	SRF 28.1054
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	10.000	-10.000	11.700	25.000	YMRP 32.0010
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	20.000	-10.000	11.700	25.000	ZMRP 11.2300
ARC 97-747 BASE B C M F V Y	ARC	97-747	BASE	B	C	M	F	V	Y	NO.	RV/L	30.000	-10.000	11.700	25.000	SCALE 10.000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLR

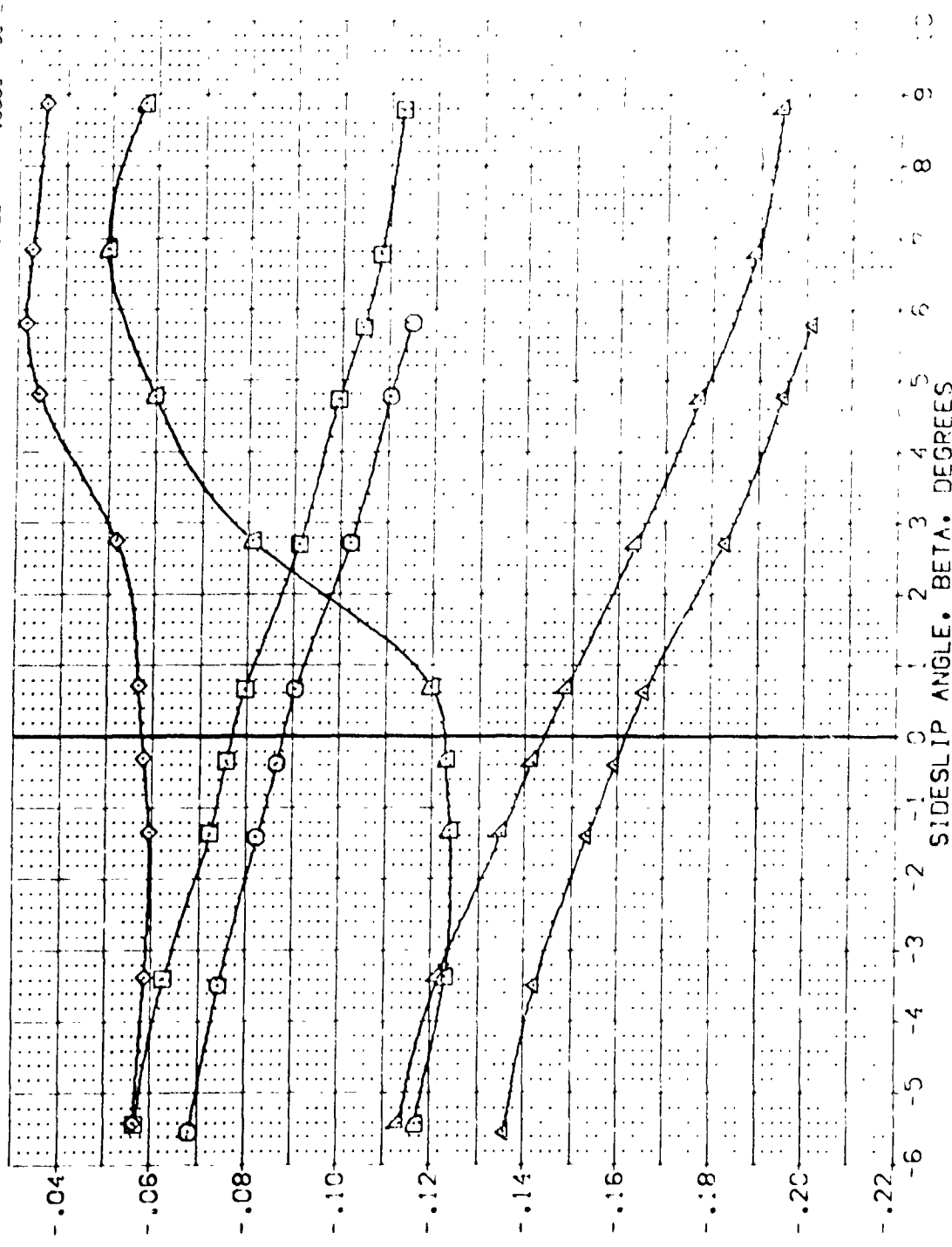


FIG. 33 RUDDER HINGE MOMENTS, -10. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YEP032) (C) APC 97-747 2A538 B C M F V Y YOM: RWL
 (YEP033) (C) APC 97-747 2A538 B C M F V Y YOM: RWL
 (YEP034) (C) APC 97-747 2A538 B C M F V Y YOM: RWL

ALPHA RUDDER BOFLAP SPOBRN
 .000 -25.000 1.700 55.000
 10.000 -25.000 1.700 55.000
 20.000 -25.000 1.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 DEF 1.2740
 BRFL 28.1004
 RWDD 32.3010
 RWDD 1.0000
 ZWDD 11.2500
 SCALE 1.0300

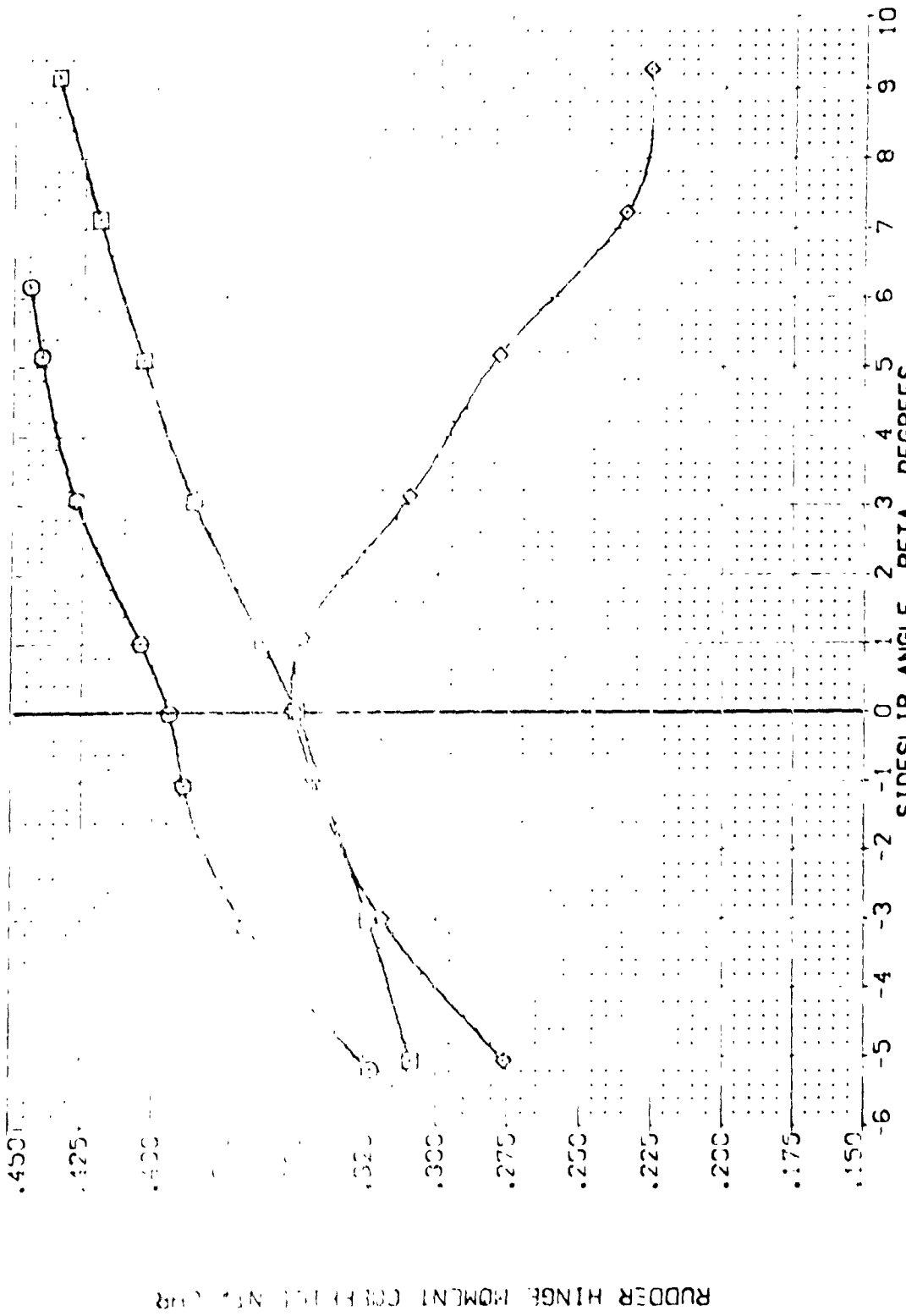


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(A)MAC = 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPODBRK	REFERENCE INFORMATION
(VERC32)	ARC 97-747 0-538 B C M F V I V	.000	-25.000	-11.700	55.000	SREF 2.421C
(VERC33)	ARC 97-747 0-538 B C M F V I V	10.000	-25.000	-11.700	55.000	SREF 14.244C
(VERC34)	ARC 97-747 0-538 B C M F V I V	20.000	-25.000	-11.700	55.000	SREF 28.120C
						SCALE 31.500C
						SCALE 11.200C
						SCALE 11.000C

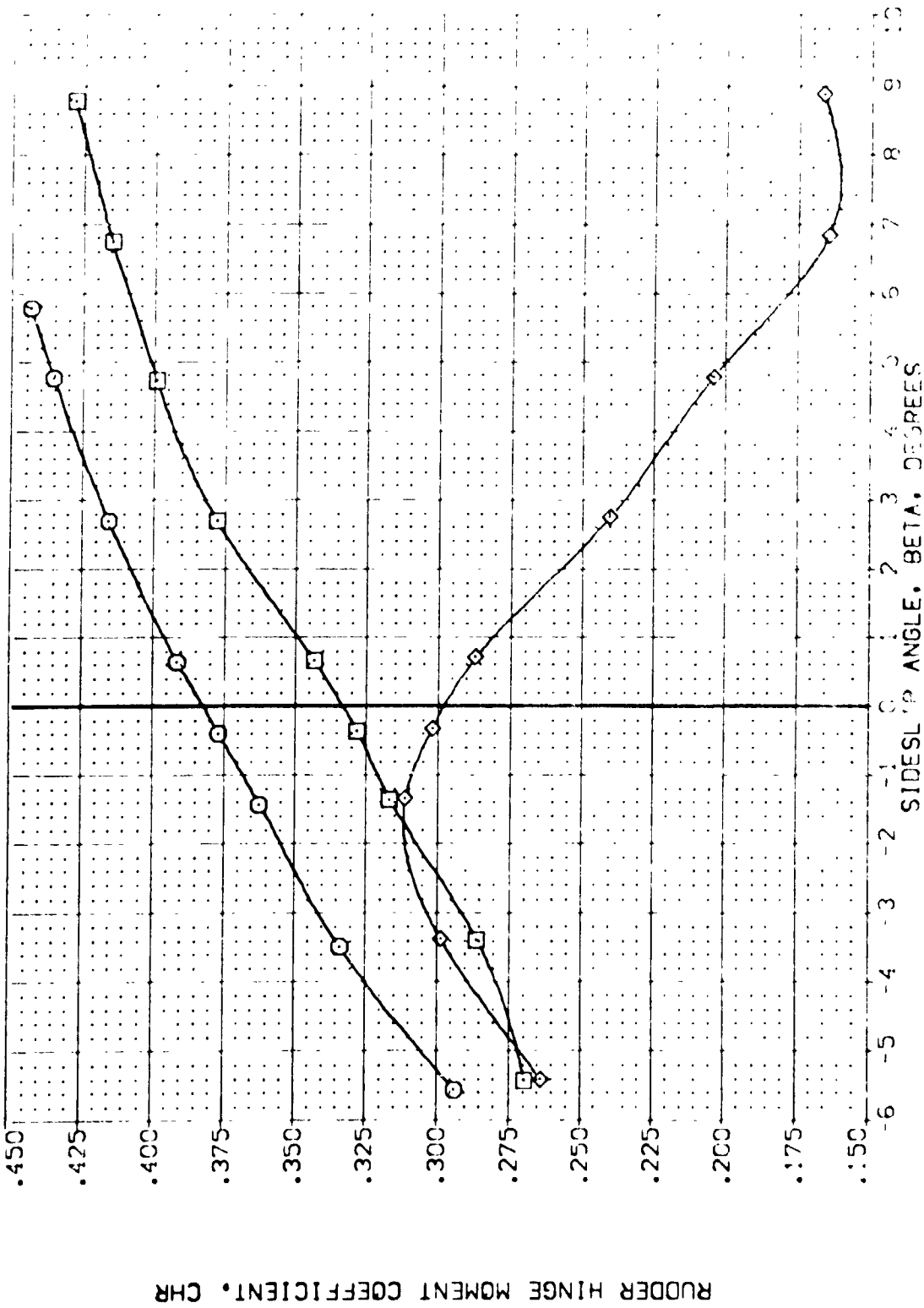


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(VEK032) ARC 97-747 C-538 B C M F V V NOM, RVL

(VEK033) ARC 97-747 C-538 B C M F V V NOM, RVL

(VEK034) ARC 97-747 C-538 B C M F V V NOM, RVL

ALPHA RUDDER BOF LAP SPOBRK

.000 -25.000 -11.700 55.000

10.000 -25.000 -11.700 55.000

20.000 -25.000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 52. FT.

LREF 14.2440 14.

BREF 28.1004 14.

XMRP 32.3010 14.

YMRP .0000 14.

ZMRP 11.2500 14.

SCALE .0300 SCALE

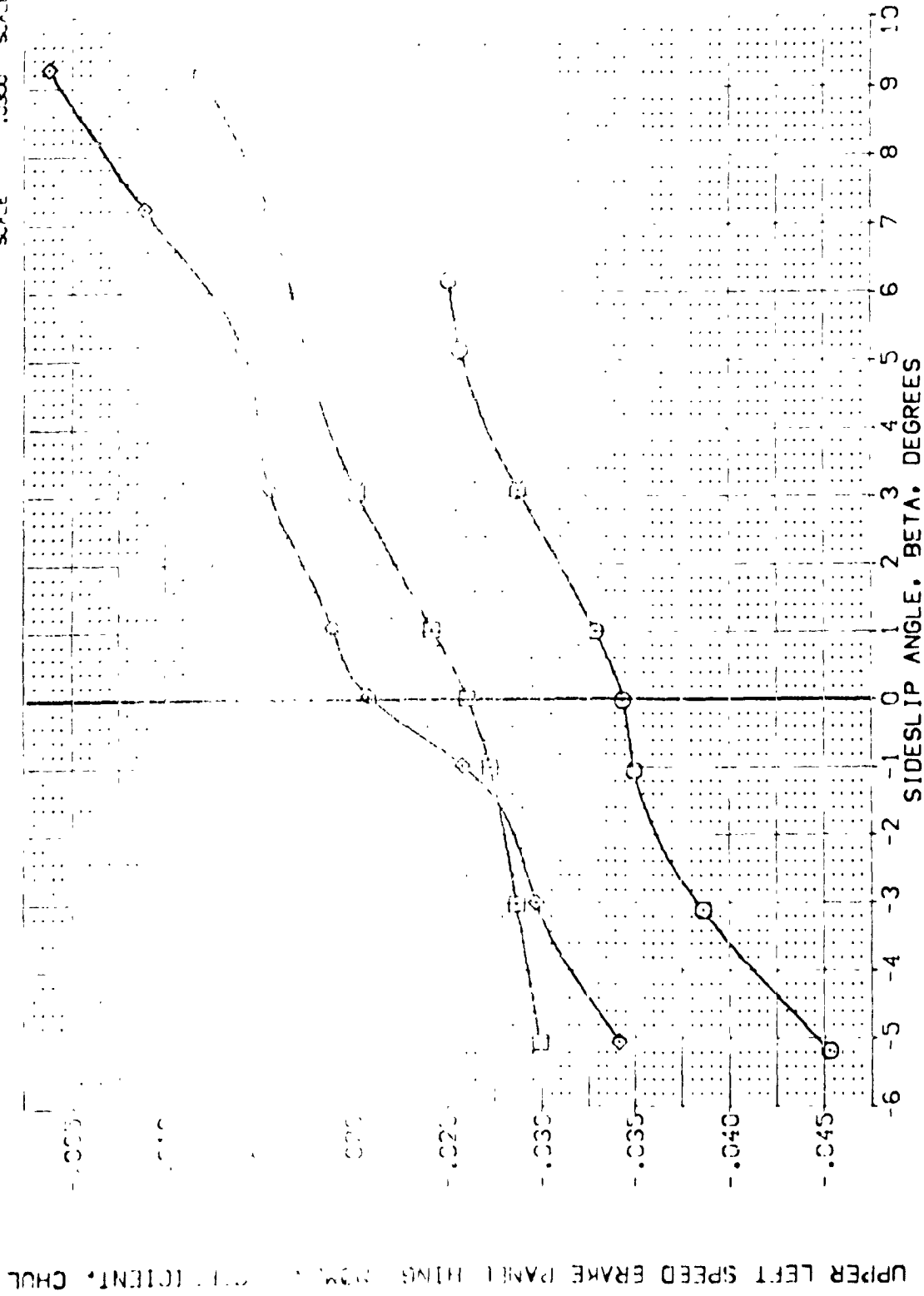
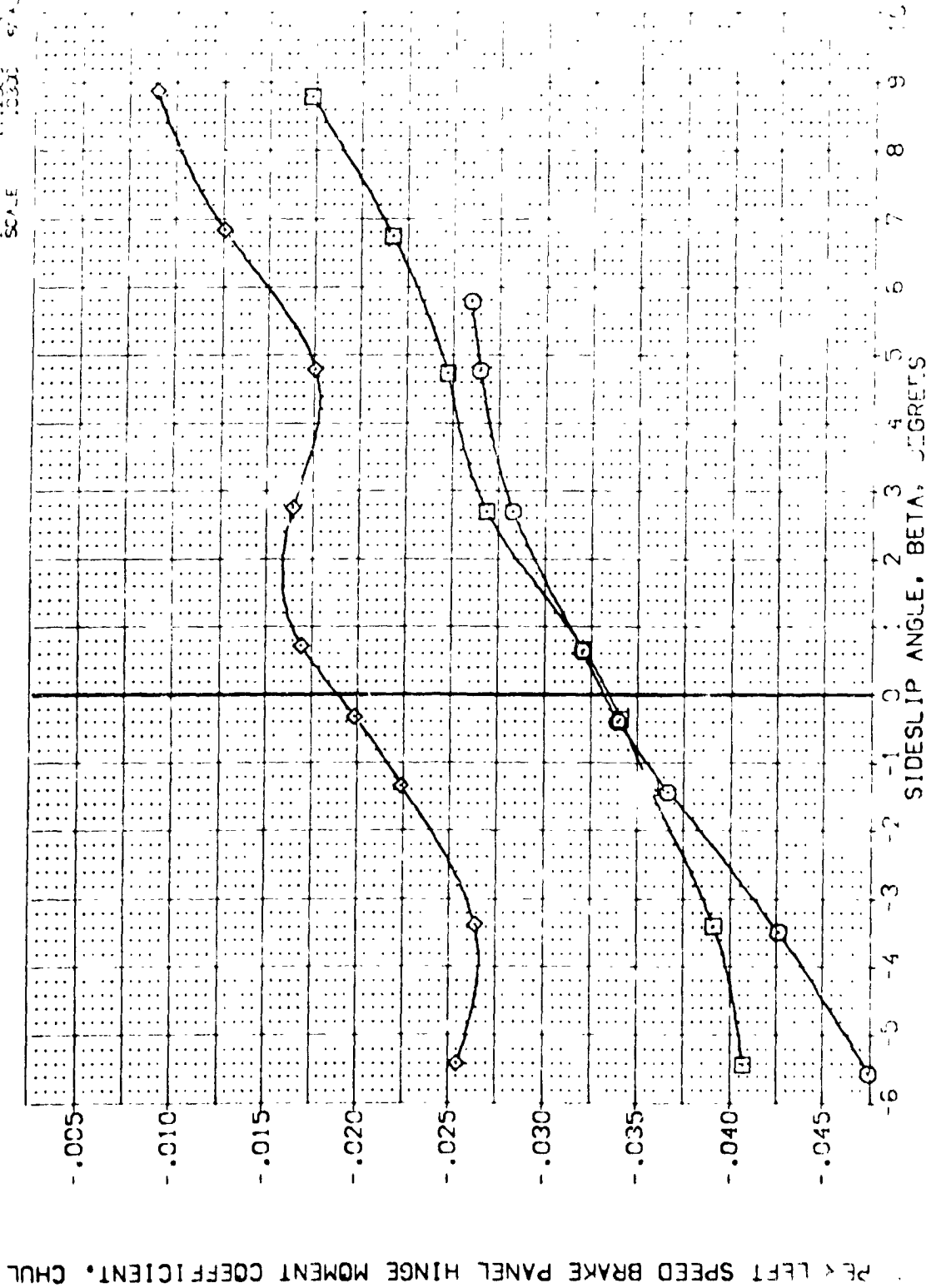


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(A) MACH = 1.60

DAT, SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION
 (VEK032) □ ARC 97-747 D-538 B C M F V I V NOM: RNVL SPERRM 55.000
 (VEK033) □ ARC 97-747 D-538 B C M F V I V NOM: RNVL SPERRM 55.000
 (VEK034) □ ARC 97-747 D-538 B C M F V I V NOM: RNVL SPERRM 55.000

ALPHA	RUDDER	BDFLAP	SPERRM	REFERENCE INFORMATION
0.000	-25.000	-11.700	55.000	SPREF 2.4200 SCALE
10.000	-25.000	-11.700	55.000	REF 14.2440
20.000	-25.000	-11.700	55.000	BDREF 28.4880
				VMAP 37.9800
				VMAP 47.4800
				ZMAP 111.2500
				SCALE 11.0300



PE < LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

FIG. 34 RUDDER HINGE MOMENTS. -25. DEGREES RUDDER

(8) MAC = 2.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VERC32) □ ARC 97-747 CAS38 B C M F V V
 (VERC33) ▽ ARC 97-747 CAS38 B C M F V V
 (VERC34) ▽ ARC 97-747 CAS38 B C M F V V

NON: RNVL
 NON: RNVL
 NON: RNVL

ALPHA RUDDER BDFLAP SPOBRK
 .000 -25.000 -11.700 55.000
 10.000 -25.000 -11.700 55.000
 20.000 -25.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SC.FT.
 LREF 14.2440
 BREF 28.1000
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

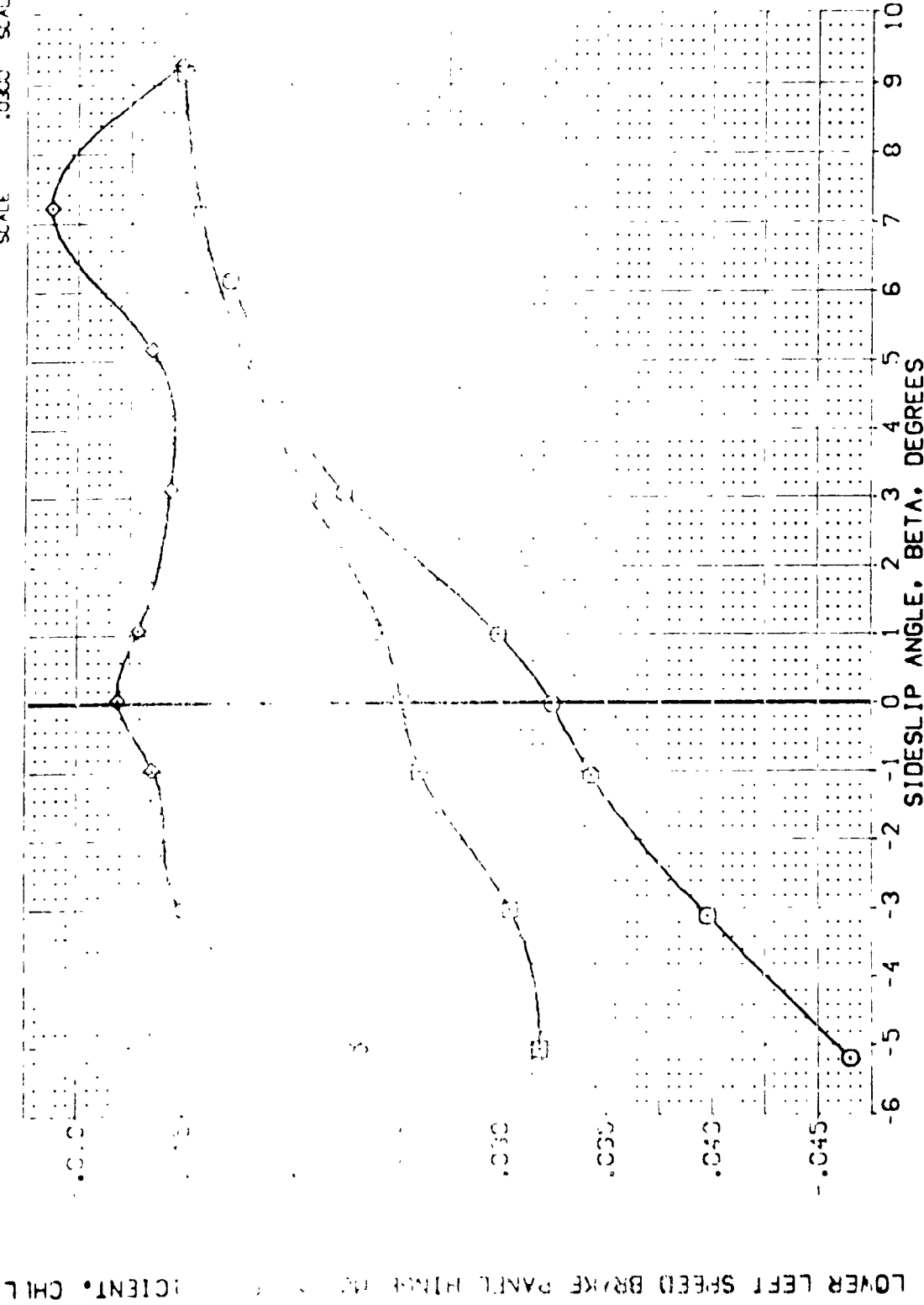


FIG. 34 RUDDER HINGE MOMENTS. -25. DEGREES RUDDER

(A) MACH = 1.60

DATA SET SYMBO. CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VEK032)	RC 97-747 0A538 B C M F V I V	SRLP	2.4210
(VEK033)	ARC 97-747 0A538 B C M F V I V	REF	14.7410
(VEK034)	ARC 97-747 0A538 B C M F V I V	BRK	20.0000
		YMRD	37.5000
		ZMRD	11.7000
		SCALE	11.0300

ALPHA RUDDER BOFLAP SPEEDK

.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

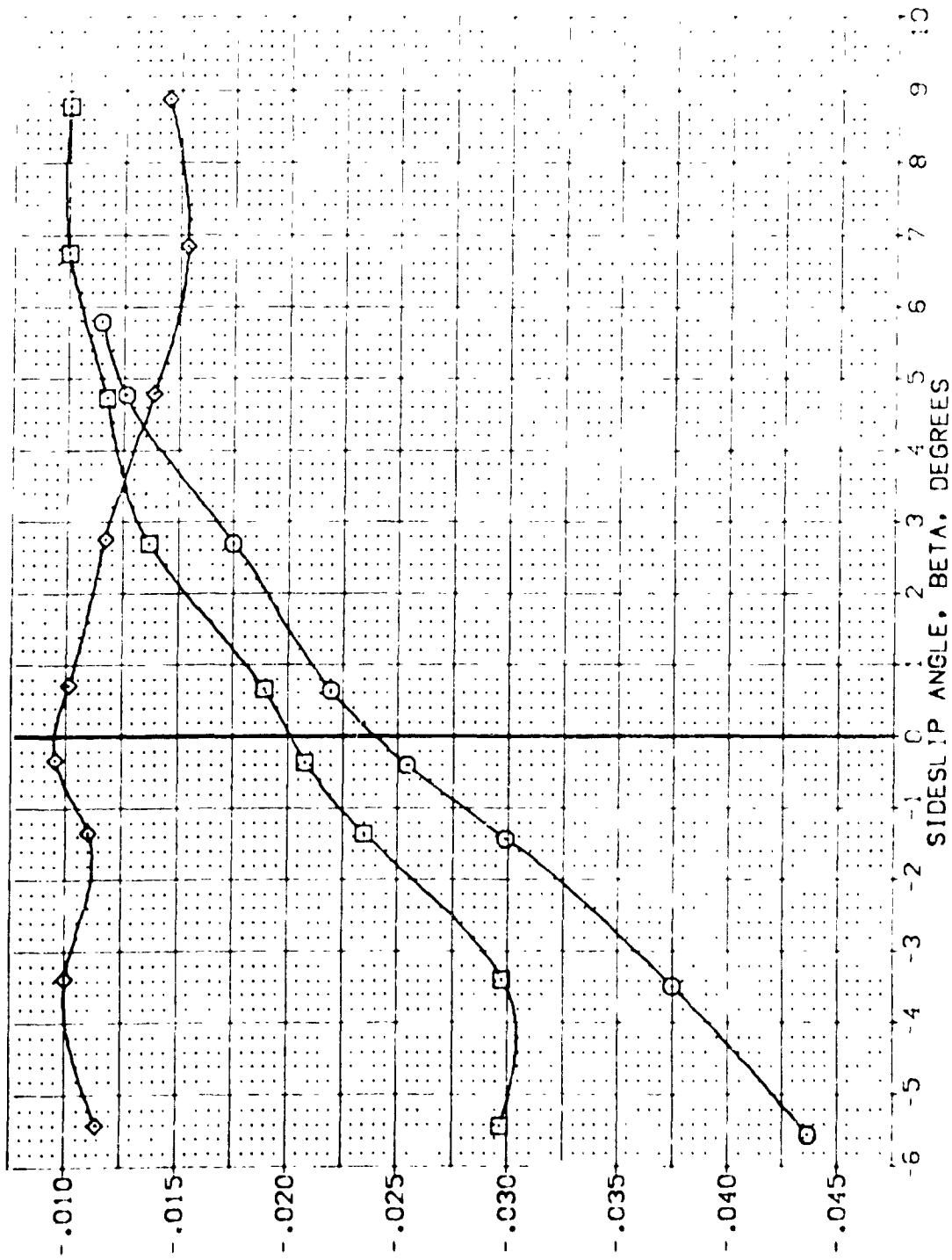


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)YAC = 2.00



DAT. SYMBO. CONFIGURATIO. DESCRIPTION
 (VF002) C1 APC 57-747 CAS38 B C M F V V V
 (VF003) C2 APC 57-747 CAS38 B C M F V V V
 (VF004) C3 APC 57-747 CAS38 B C M F V V V

ALPHA RUDDER BDF LAP SPOBRK
 0.000 -25.000 -111.700 55.000
 10.000 -25.000 -111.700 55.000
 20.000 -25.000 -111.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SOLFY.
 LREF 14.2440
 BREF 28.0000
 VREF 32.3070
 WREF 0.0000
 ZREF 11.7000
 SCALE 10.0000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT, CHUR

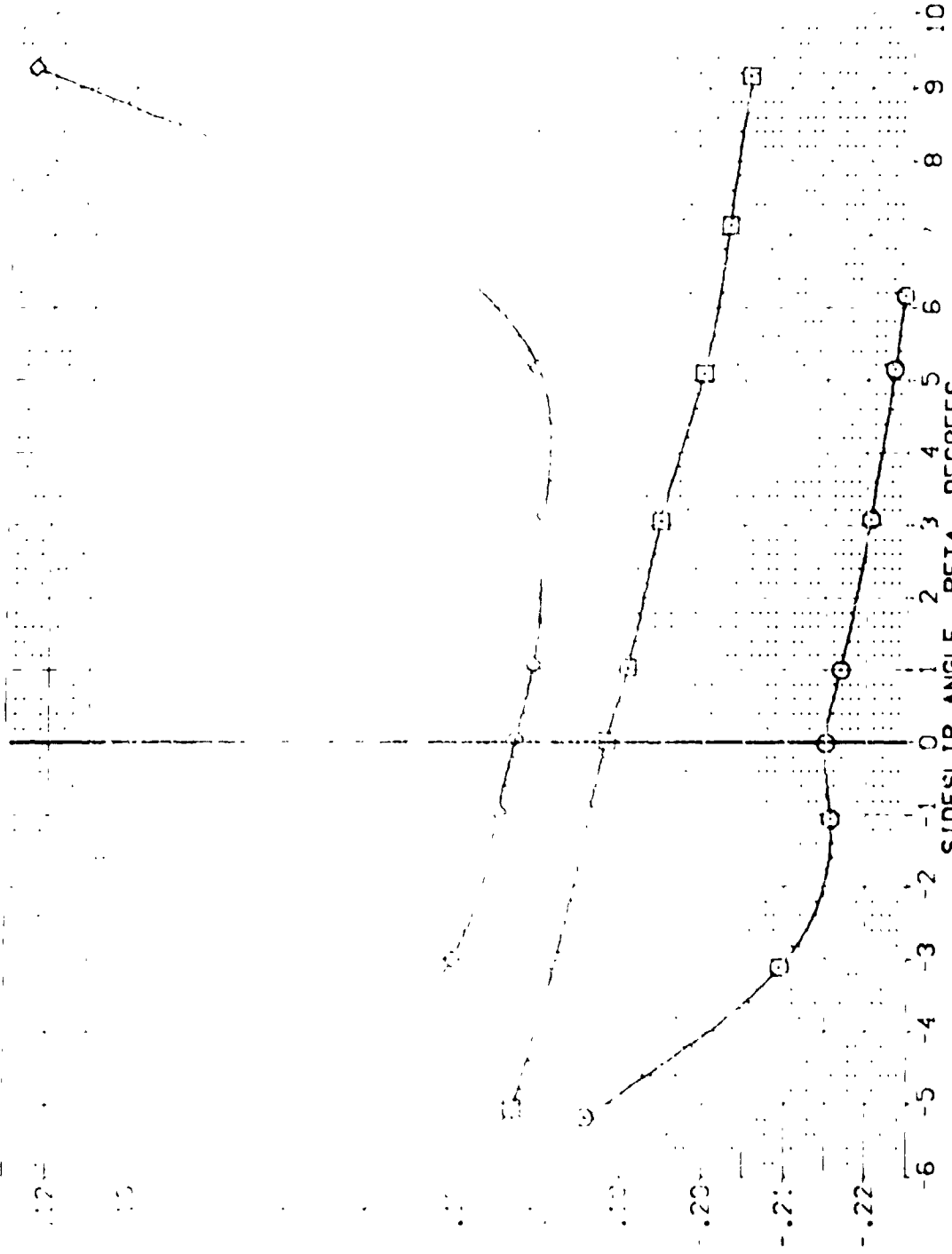


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(MACH = 1.60)

DATA SET SYMBOL

CONFIGURATION DESCRIPTION

ARC 97-747 01538 B C M F VI V
 ARC 97-747 04538 B C M F VI V
 ARC 97-747 14538 B C M F VI V

ALPHA RUDDER DOFLAP SPEEDRY

REFERENCE INFORMATION

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

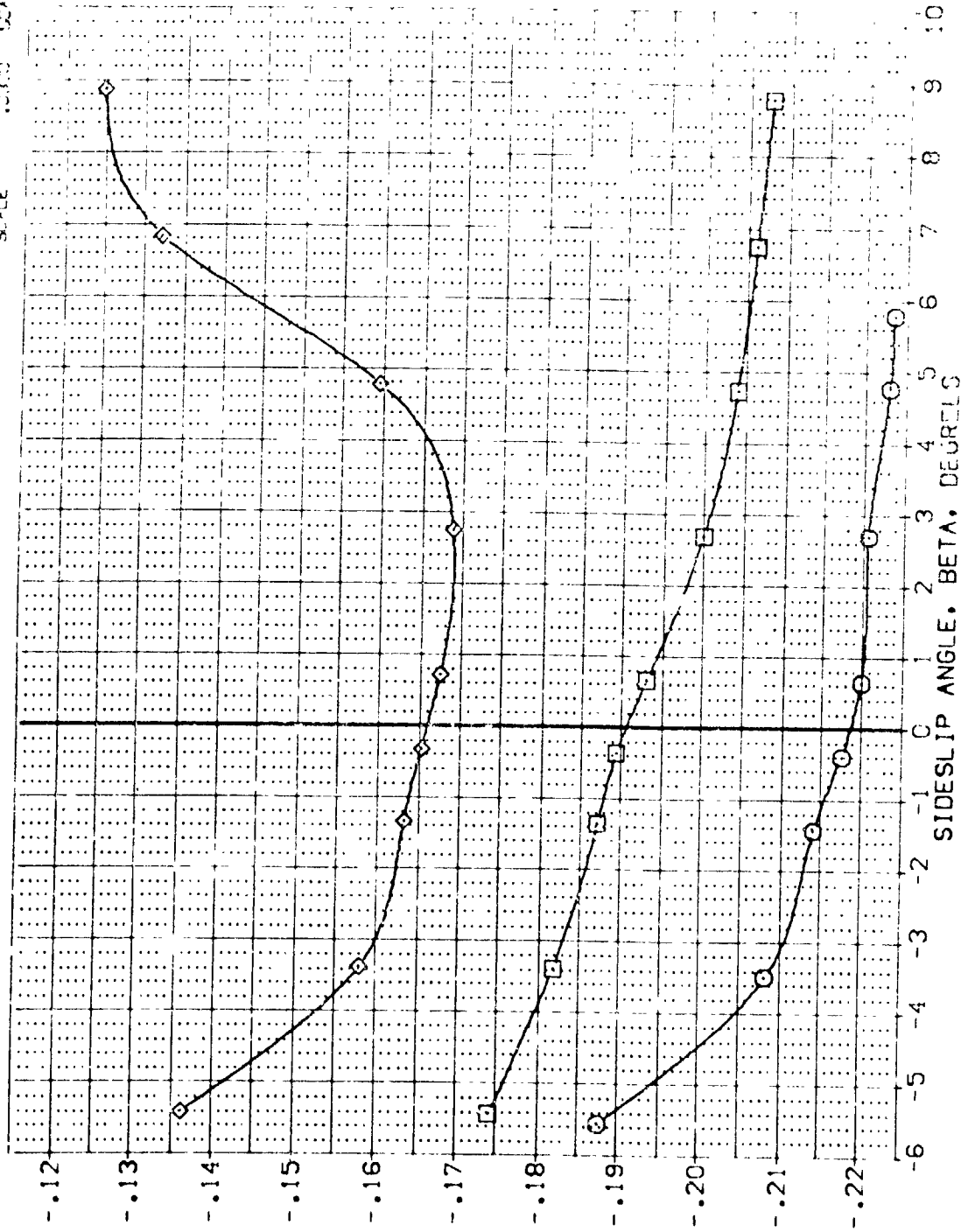


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL: (YEK032) (YEK033) (YEK034)

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V (NON: RNU/L) ARC 97-747 CAS38 B C M F VI V (NON: RNU/L) ARC 97-747 CAS38 B C M F VI V (NON: RNU/L)

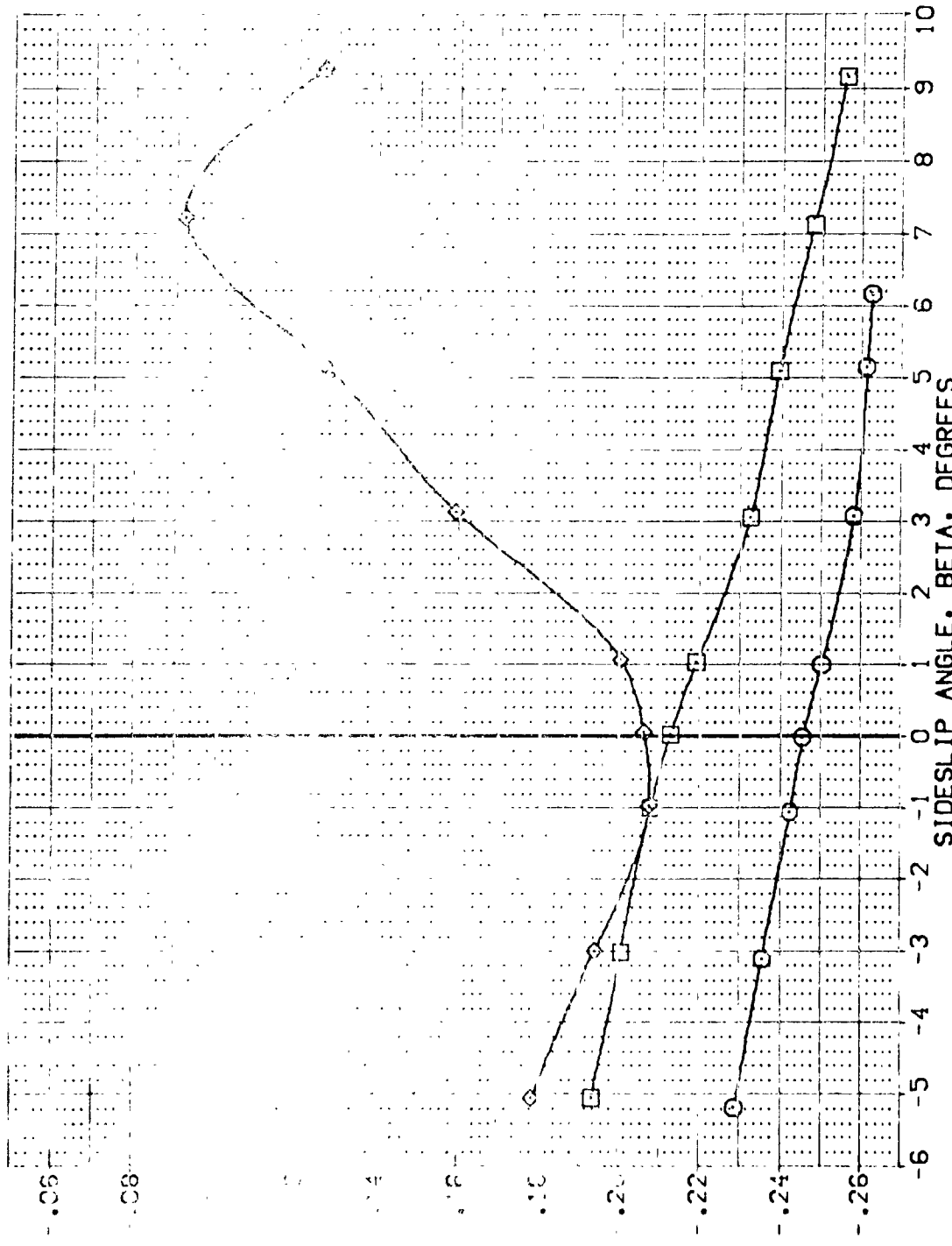
ALPHA: 0.000 10.000 20.000

RUDDER: -25.000 -25.000 -25.000

BDF LAP: -11.700 -11.700 -11.700

SPOBRK: 55.000 55.000 55.000

REFERENCE INFORMATION: SREF 2.4210 SQ.FT. LREF 14.2440 WREF 28.100% XMRP 32.3010 YMRP .0000 ZMRP 11.2500 IN. SCALE .0300



LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(A)MACH = 1.60

DATA SET SYMBOL
 (YK032)
 (YK033)
 (YK034)

CONFIGURATION DESCRIPTION
 ARC 97-747 D4538 B C M F V I V
 ARC 97-747 D4538 B C M F V I V
 ARC 97-747 D4538 B C M F V I V

NOM: RN/L
 NOM: RN/L
 NOM: RN/L

ALPHA RUDDER BDF LAP SFC BRK
 .000 -25.000 -11.700 55.000
 10.000 -25.000 -11.700 55.000
 20.000 -25.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 52. FT.
 LRFF 14.2440
 BRFF 28.1004
 XMRP 32.3010
 ZMRP 0.0000
 SCALE 11.0000
 SCALE 1.0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

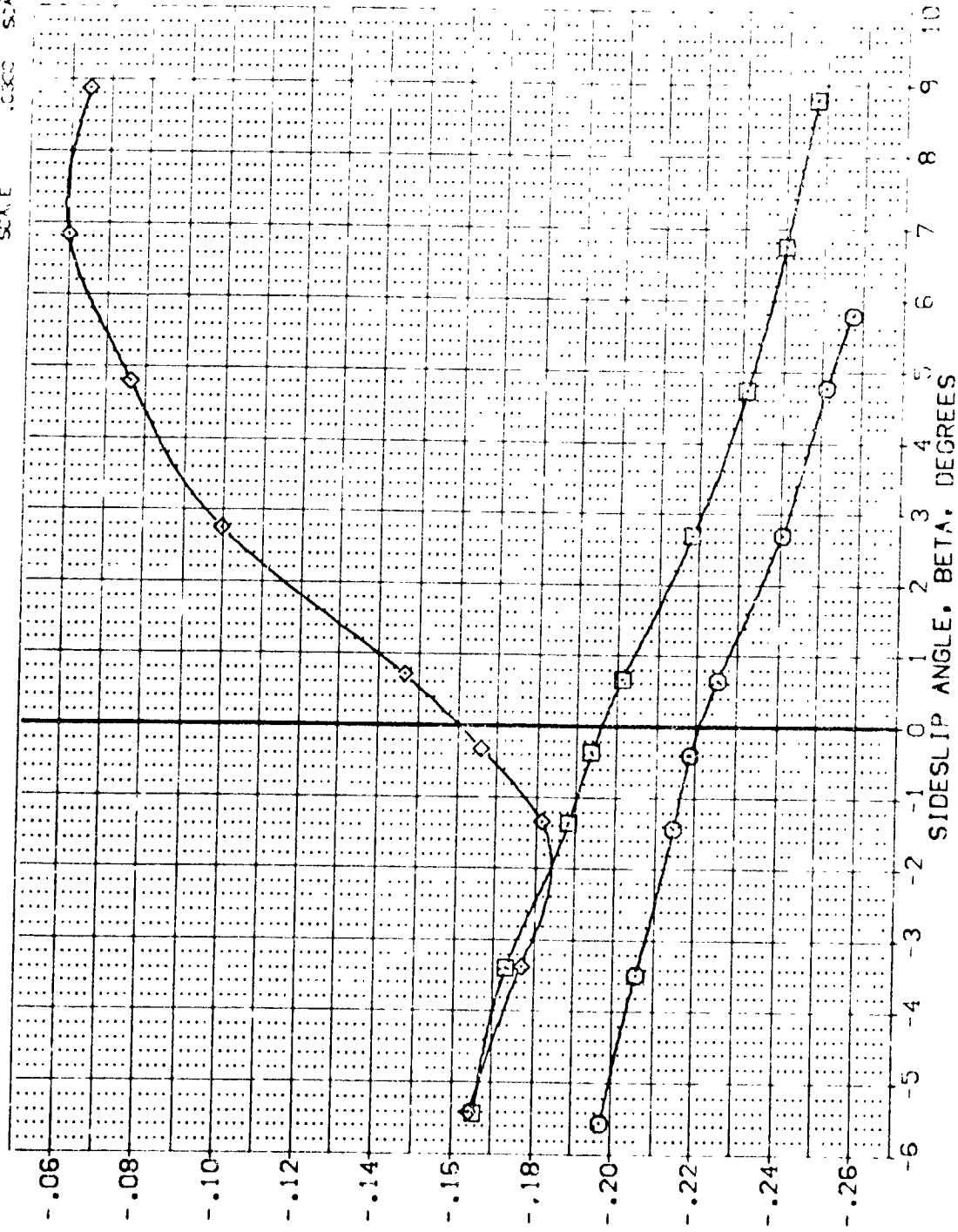


FIG. 34 RUDDER HINGE MOMENTS, -25. DEGREES RUDDER

(B)MACH = 2.00



DATA SET SYMBOL: [YEM024] [YEM011] [YEM038]
 CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F V | V NOM: RV/L | V NOM: RV/L | V NOM: RV/L
 REFERENCE INFORMATION: SREF 2.4210 SQ.FT. | LREF 14.2440 | BREF 28.1004 | XMRP 32.3010 | YMRP 0.0000 | ZMRP 11.2500 | SCALE 11.0300

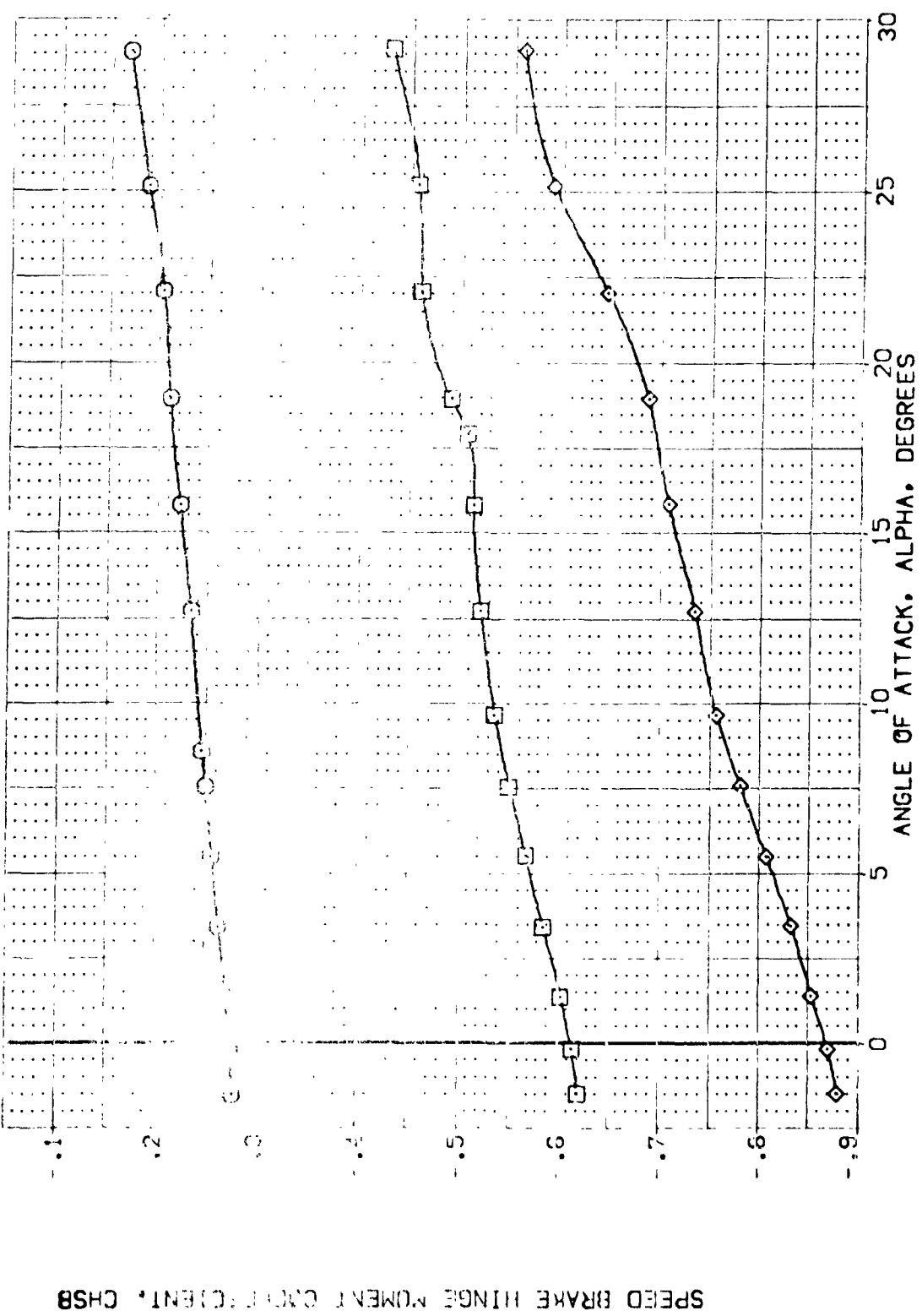
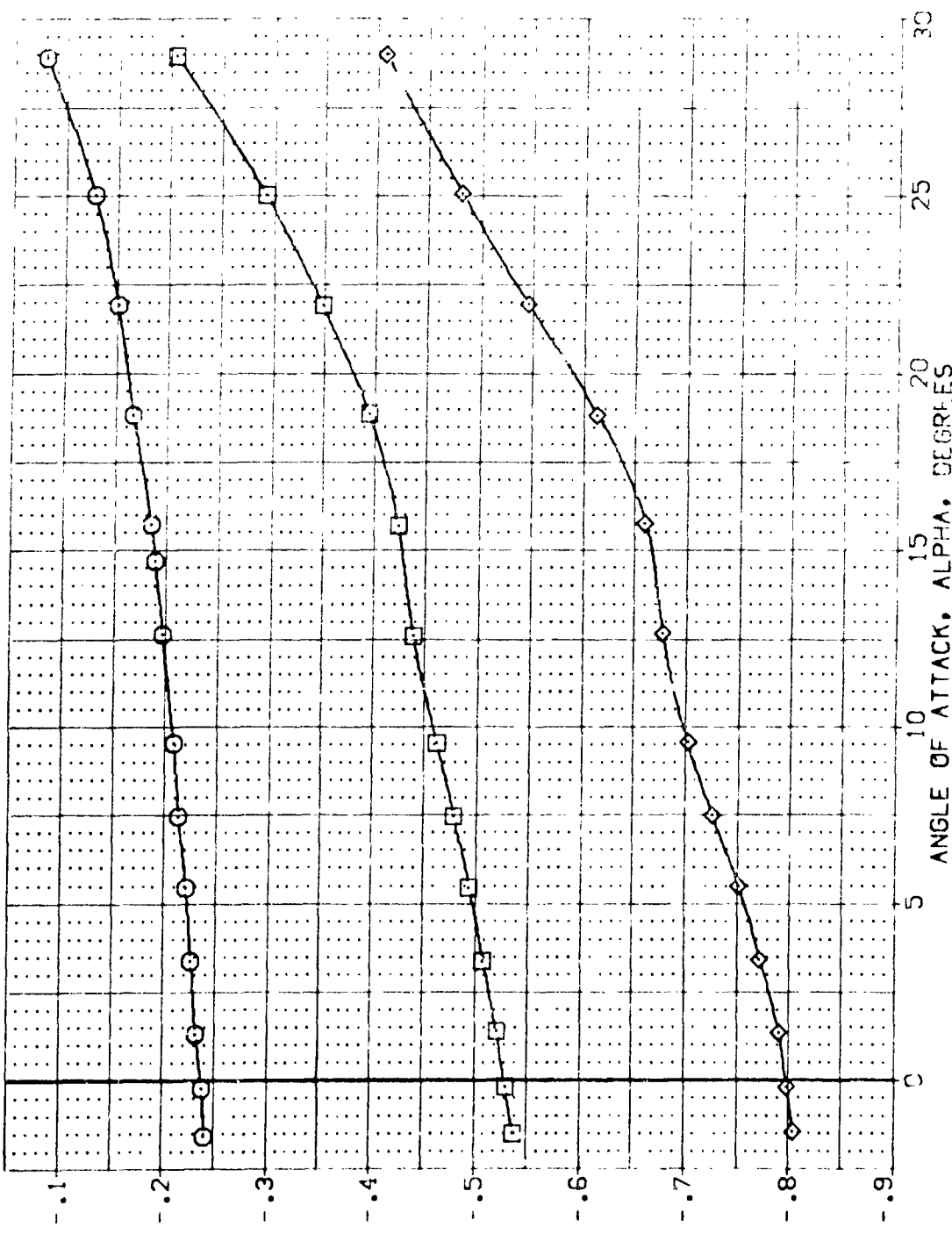


FIG. 35 SPEEDBRAKE HINGEMOMENTS

CA/MACH = 1.60

DATA SET SYMBOL: (YEK024), (YEK011), (YEK038)
 CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F VI V, ARC 97-747 CAS38 B C M F VI V, ARC 97-747 CAS38 B C M F VI V
 NON. RN/L, NON. RN/L, NON. RN/L
 BETA: .000, .000, .000
 RUDDER: .000, .000, .000
 BOFLAP: 11.700, 11.700, 11.700
 SPOBRK: 25.000, 55.000, 85.000
 REFERENCE INFORMATION: SREF 2.4210, LREF 14.2410, BREF 28.1004, YMRD .0000, ZMRD .0000, SCALE 11.2500, .0300



SPEED BRAKE HINGE MOMENT COEFFICIENT, CHSB

FIG. 35 SPEEDBRAKE HINGEMOMENTS
(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(YK024)	ARC 97-747 DAS38 B C M F V I V	SREF	2.4210	SQ. FT.
(YK031)	ARC 97-747 DAS38 B C M F V I V	LREF	14.2440	N.
(YK038)	ARC 97-747 DAS38 B C M F V I V	BREF	28.1004	N.
		XMRP	32.3010	N.
		YMRP	0.0000	N.
		ZMRP	11.2500	N.
		SCALE	.0300	SCALE

BETA RUDDER BDF LAP SPD BRK

.000	.000	-11.700	25.000
.000	.000	-11.700	55.000
.000	.000	-11.700	85.000

NON: RN/L NON: RN/L

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

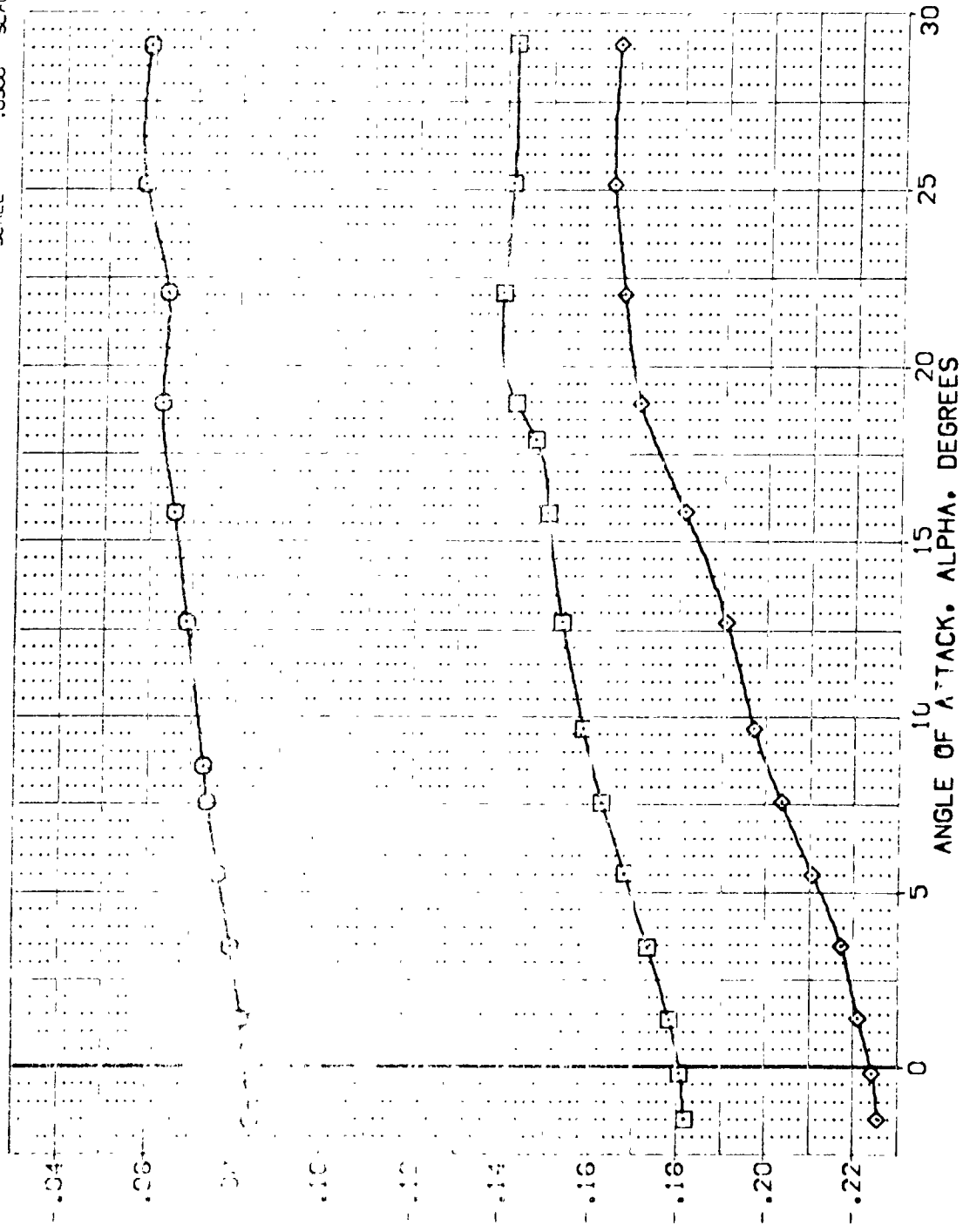


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(A) MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

ARC 97-747 CAS38 B C M F VI V NOT: RN/L

ARC 97-747 CAS38 B C M F VI V NOT: RN/L

ARC 97-747 CAS38 B C M F VI V NOT: RN/L

REFERENCE INFORMATION

SREF 2.4210 SC.FT.

LREF 14.2410 IN.

BREF 28.1004 IN.

XMRP 97.500 IN.

YMRP 0.000 IN.

ZMRP 11.2500 IN.

SCALE 0.0300 SCALE

BETA .000

RUDER .000

BOFLAP -11.700

SPOBRK 25.000

25.000

55.000

85.000

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL

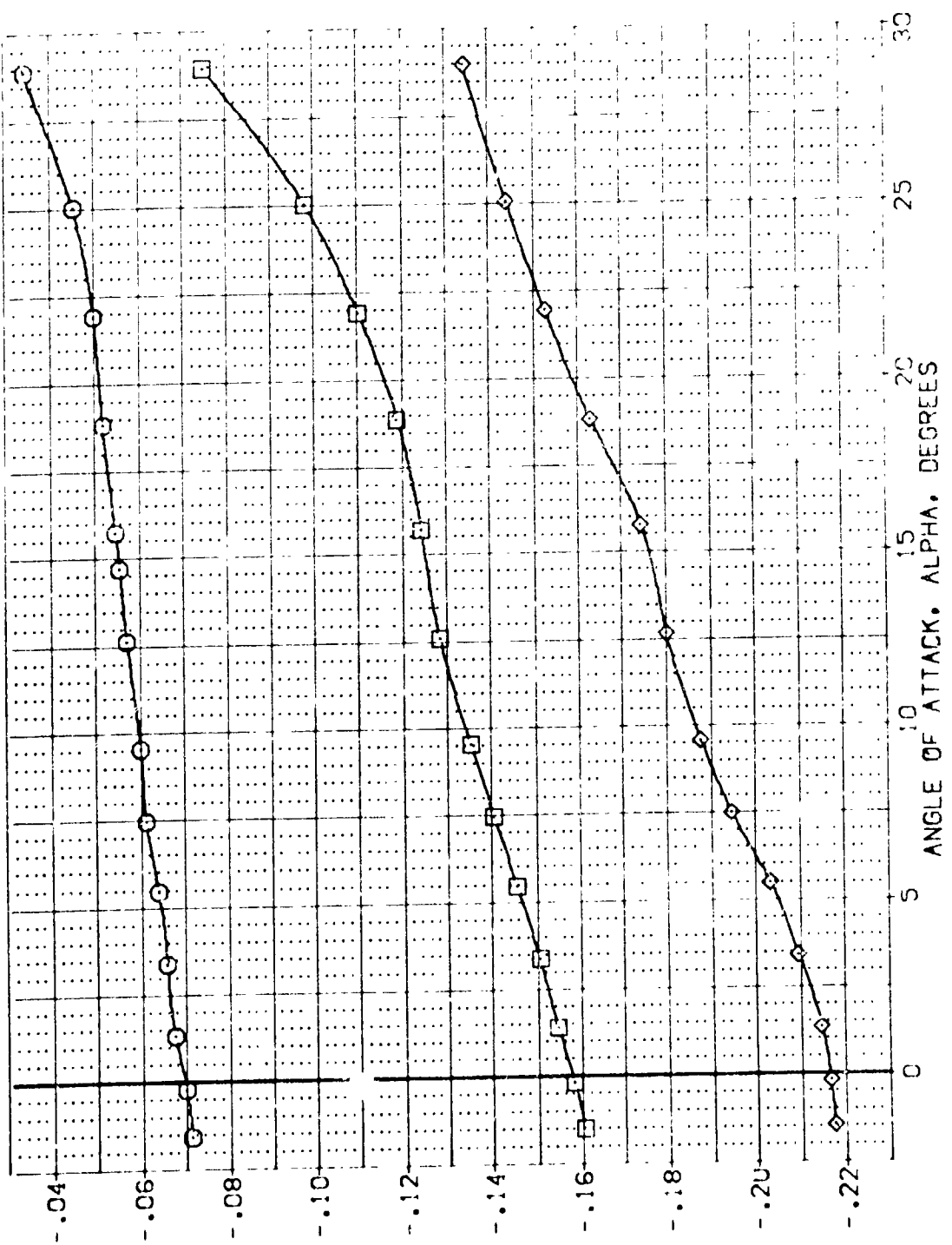


FIG. 35 SPEEDBRAKE HINGEMENTS

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION NOM. RN/L BETA RUDDER SOFLAP SPOBRK REFERENCE INFORMATION SC.F.T.

(YK074)	ARC 97-747 CAS38 B C M F V	V	.000	.000	11.700	25.000	SREF	2.4210	N.
(YK075)	ARC 97-747 CAS38 B C M F V	V	.000	.000	11.700	55.000	LREF	14.2440	N.
(YK076)	ARC 97-747 CAS38 B C M F V	V	.000	.000	11.700	85.000	BREF	28.1004	N.
(YK077)	ARC 97-747 CAS38 B C M F V	V	.000	.000	11.700		XMRP	32.3010	N.
							YMRP	.0000	N.
							ZMRP	11.2500	N.
							SCALE	.0300	N.

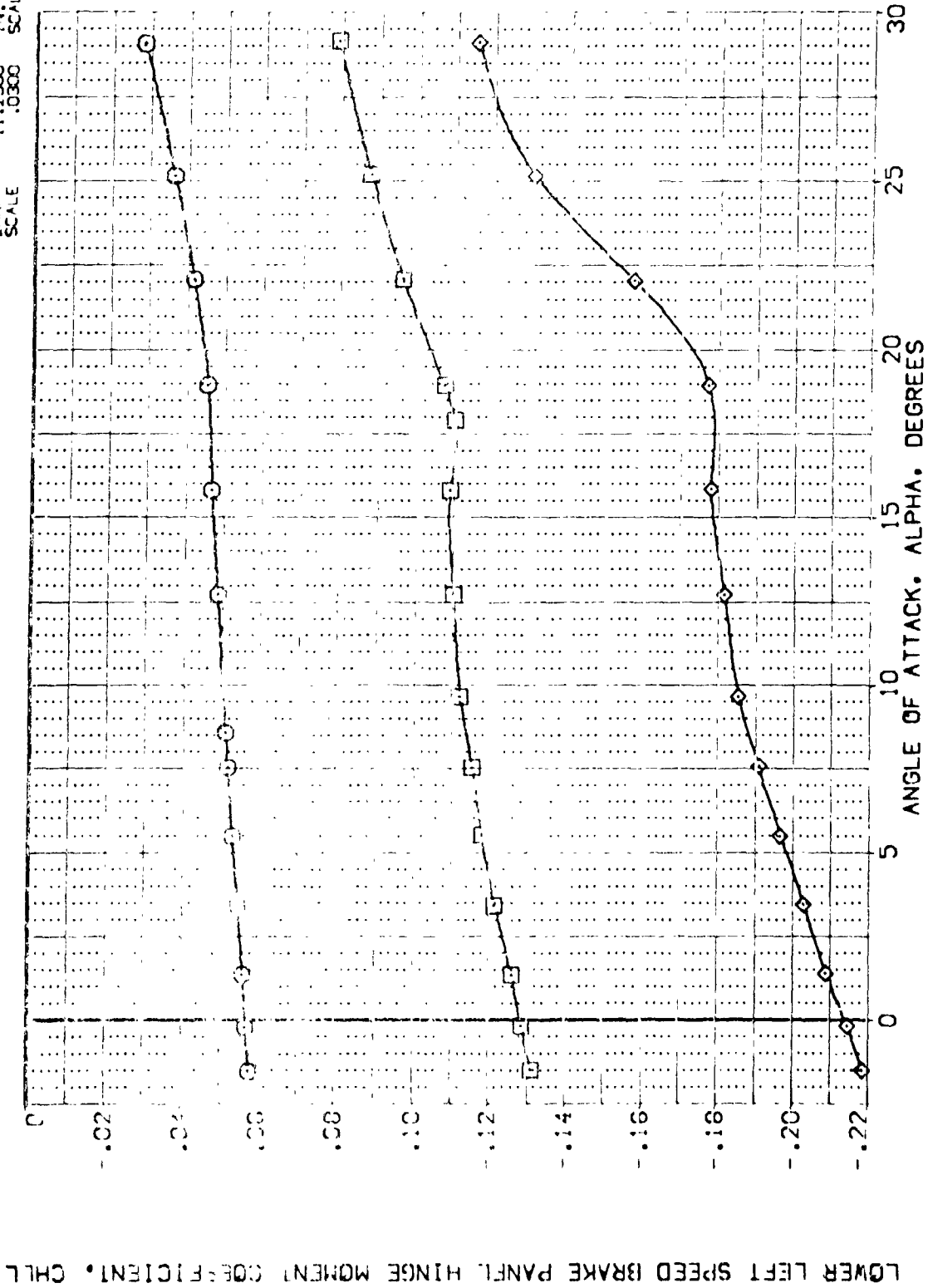


FIG. 35 SPEEDBRAKE HINGEMENTS

(M)MACH = 1.60

DATA SET SYMBOL: [YER024] [YER011] [YER036]

CONFIGURATION DESCRIPTION:
 ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 ARC 97-747 CAS38 B C M F VI V NOM. RV/L
 ARC 97-747 CAS38 B C M F VI V NOM. RV/L

BETA: .000 .000 .000
 RUDDER: .000 .000 .000
 BOF LAP: -11.700 -11.700 -11.700
 SPEEDBRK: 25.000 55.000 85.000

REFERENCE INFORMATION: SREF: 2.4710 SCAL: 1.0
 BREF: 14.7440
 X-REF: 38.1004
 Y-REF: 37.3210
 Z-REF: 11.2500
 SCALE: 1.0300

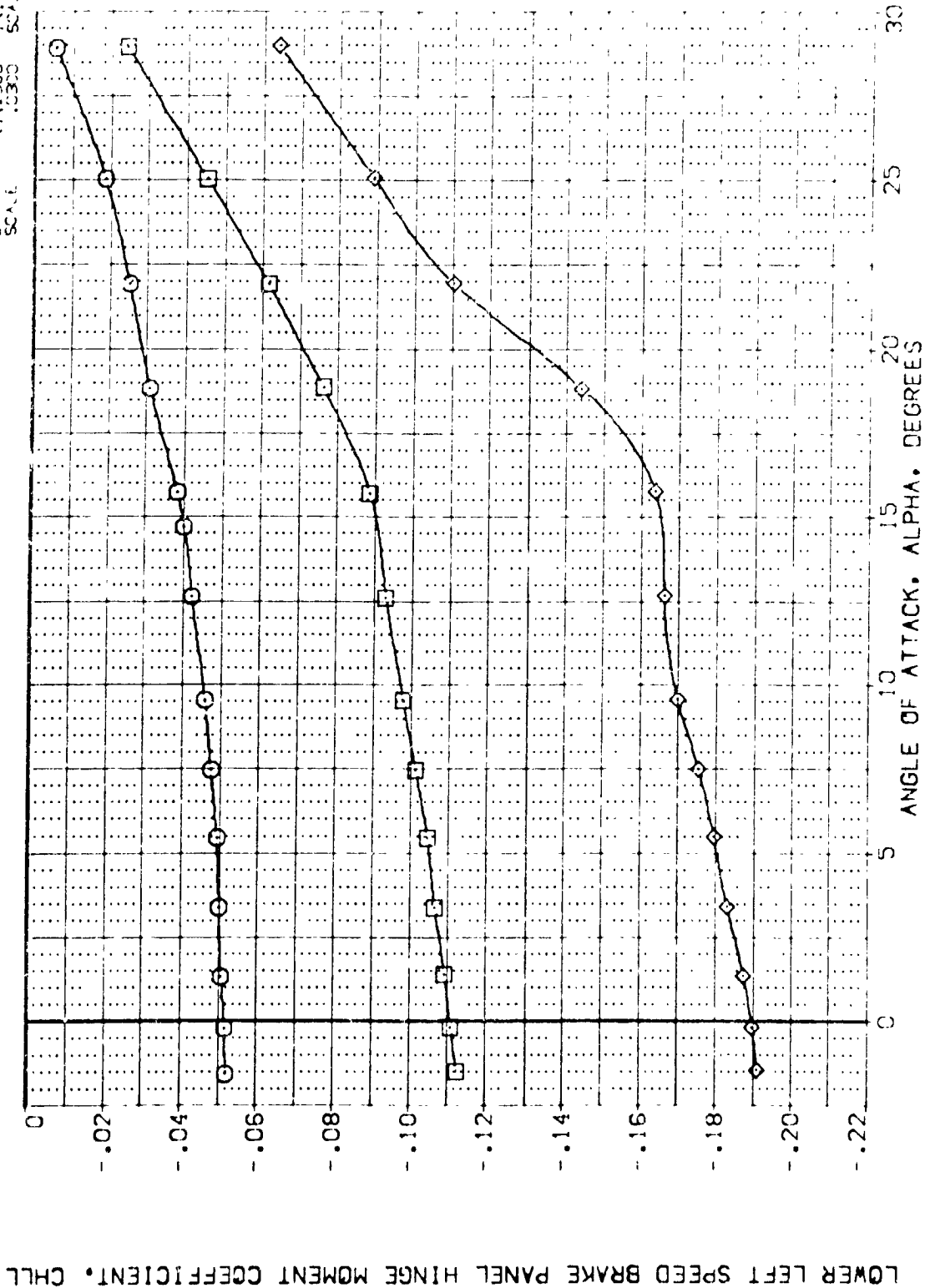


FIG. 35 SPEEDBRAKE HINGEMENTS

(B)MACH = 2.00



REFERENCE INFORMATION:
 SREF 2.4210 SQ.FT.
 LREF 14.244C
 BREF 28.1004
 XMRP 32.301C
 YMRP .0000
 ZMRP .0000
 SCALE 11.2500
 .0300 SCALE

SPOBRK 29.000
 BOFLAP -11.700
 RUDDER .000
 BETA .000
 .000
 .000

CONFIGURATION DESCRIPTION
 ARC 97-747 CAS38 B C M F VI V
 ARC 97-747 CAS38 B C M F VI V
 ARC 97-747 CAS38 B C M F VI V

NOM: RN/L
 NOM: RN/L
 NOM: RN/L

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

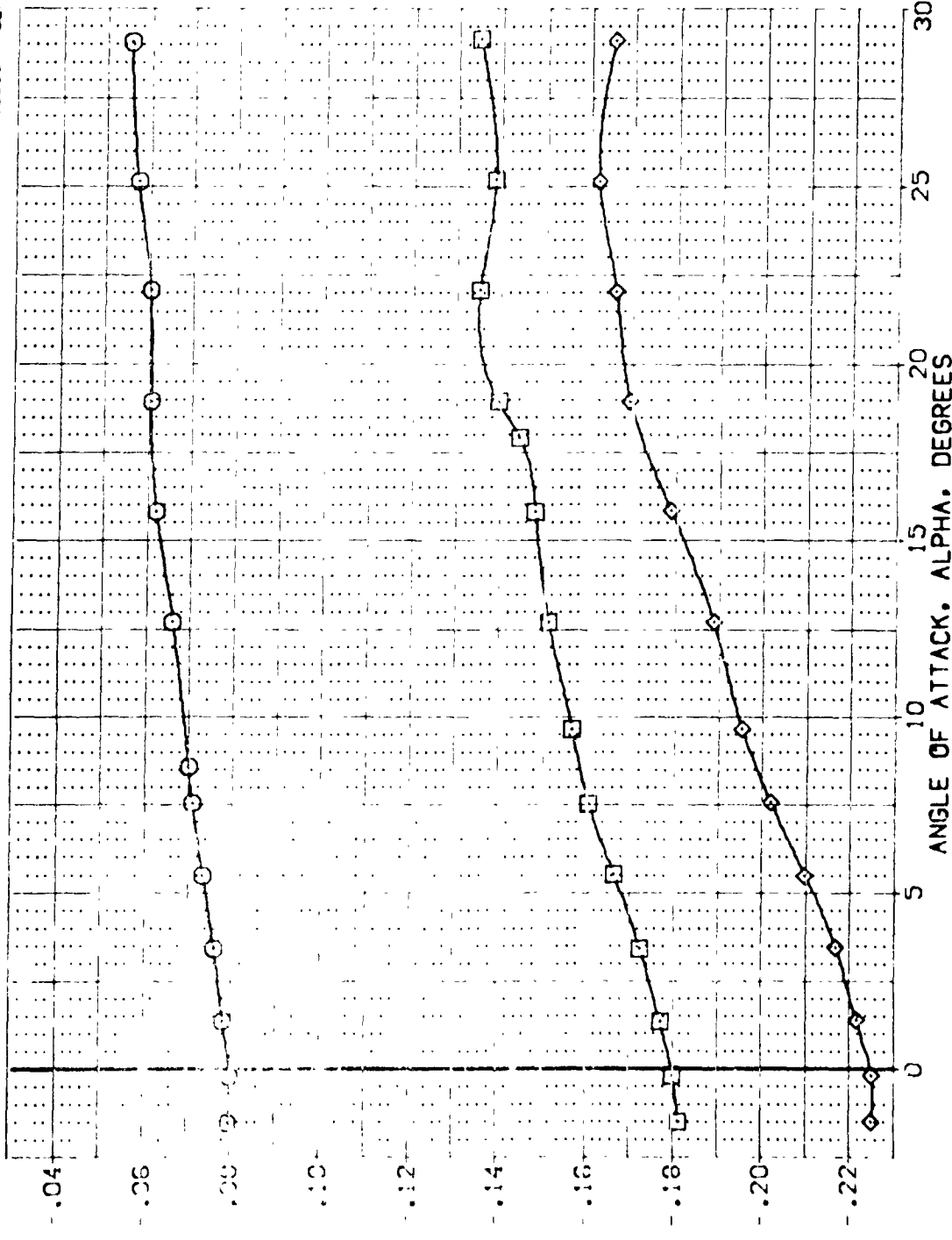


FIG. 35 SPEEDBRAKE HINGEMENTS

(A)MACH = 1.60

DATA SET SYMBOL
 (YK024)
 (YK011)
 (YK038)

CONFIGURATION DESCRIPTION
 ARC 97-747 DAS38 B C M F V
 ARC 97-747 DAS38 B C M F V
 ARC 97-747 DAS38 B C M F V

NON: RN/L
 NOM: RN/L
 NOM: RN/L

BETA
 .000
 .000
 .000

RUDDER
 .000
 .000
 .000

BOFLAP
 -11.700
 -11.700
 -11.700

SPOBRK
 25.000
 55.000
 85.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 26.1004
 YMRD 37.3500
 ZMRD 52.000
 SCALE 11.2500
 SCALE 11.0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

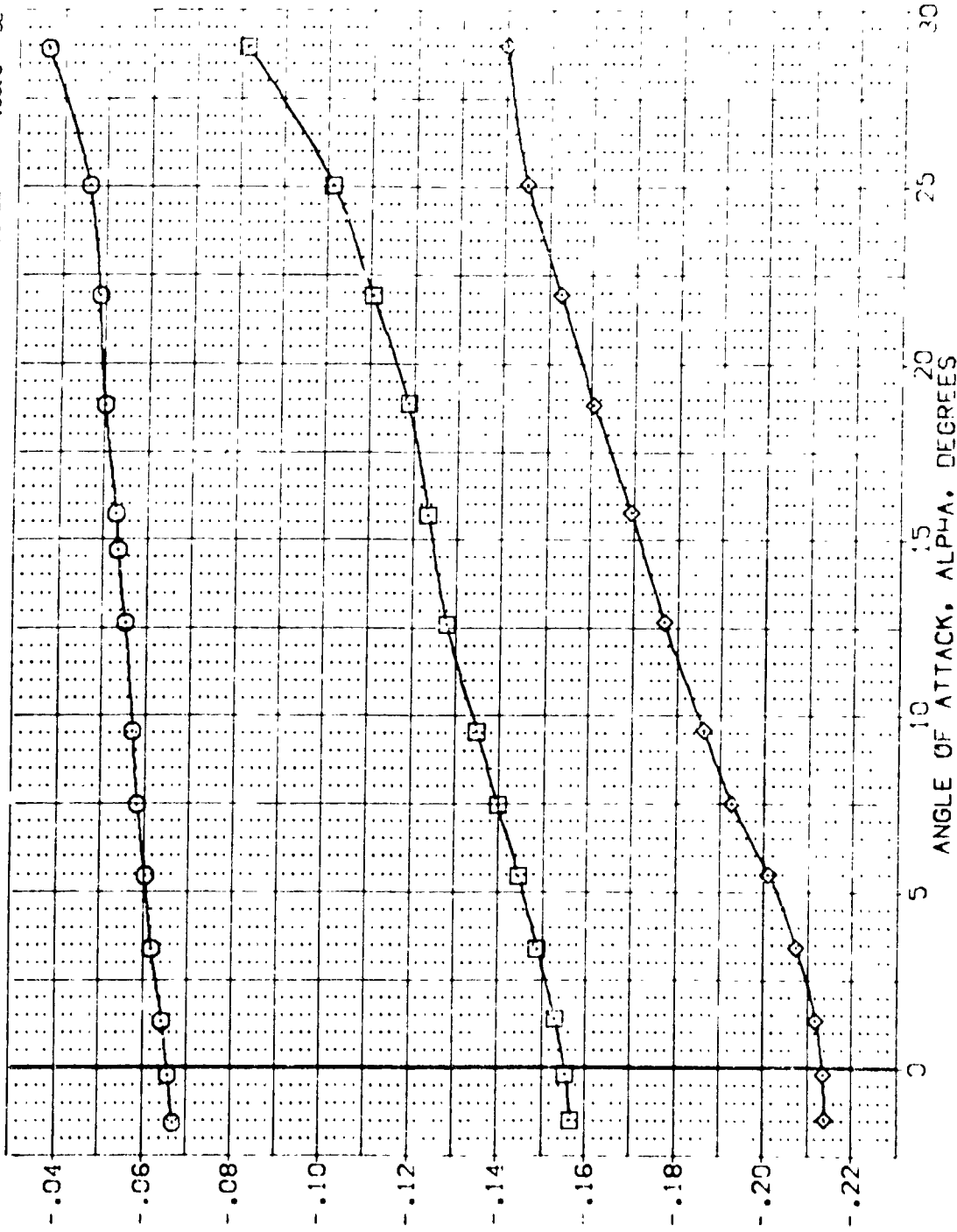


FIG. 35 SPEEDBRAKE HINGEMENTS

SPD = 2.00



LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

DATA SET SYMBOL	CONFIGURATION: DESCRIPTION	BETA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
(YK024)	ARC 97-747 CA538 B C M F V V	.000	.000	-11.700	29.000	2.4210
(YK011)	ARC 97-747 CA538 B C M F V V	.000	.000	-11.700	55.000	14.2440
(YK038)	ARC 97-747 CA538 B C M F V V	.000	.000	-11.700	85.000	28.1004
						32.3010
						11.2500
						7MRD
						SCALE
						.0300
						SO. FT.

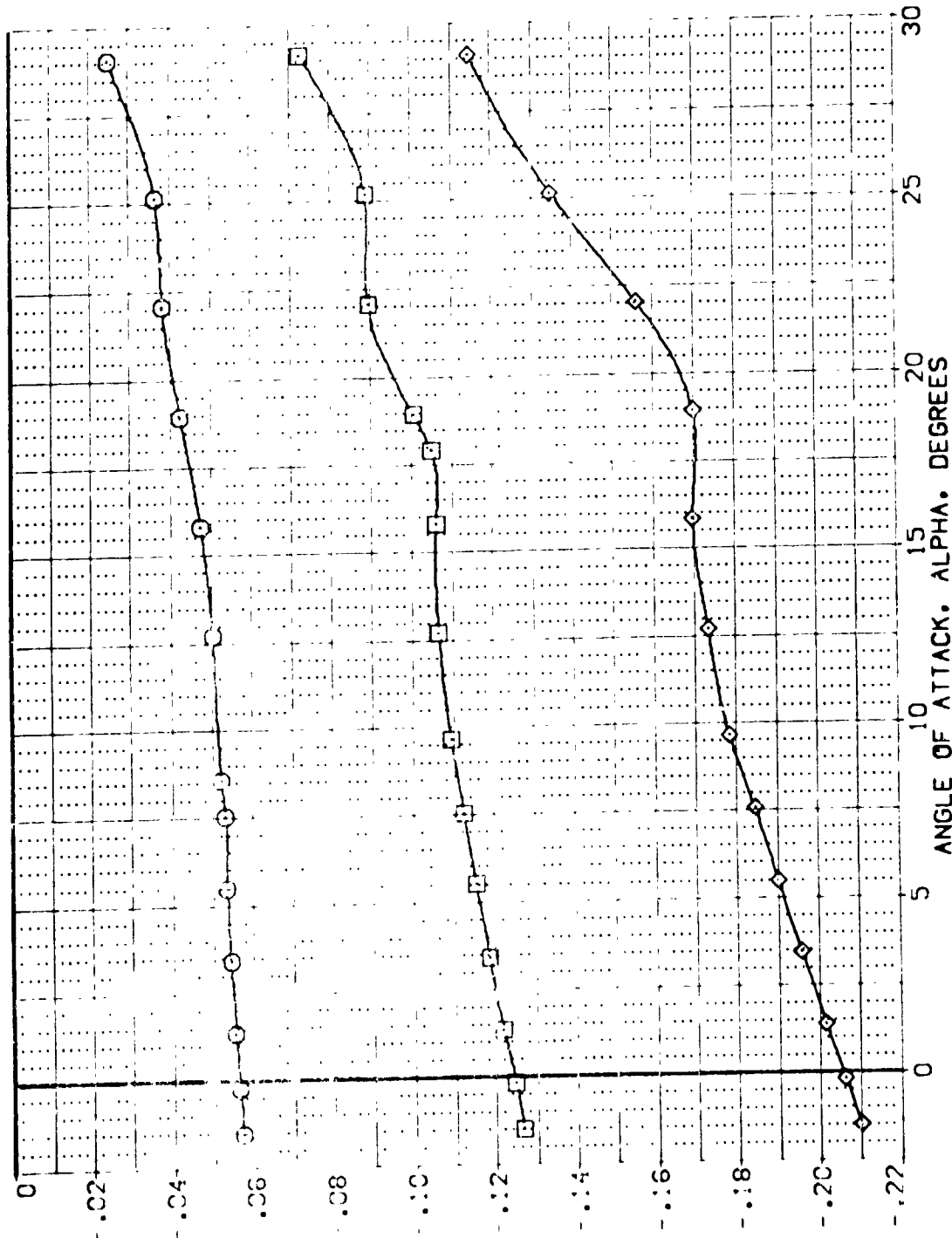


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(A)MACH = 1.60

DATA SET SYMBOL: (YEA0014)
 CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C M F VI V
 (YEA0111) ARC 97-747 GAS38 B C M F VI V
 (YEA0388) ARC 97-747 GAS38 B C M F VI V

NOM: RN/L
 NOM: RN/L
 NOM: RN/L

BETA: .000
 .000
 .000

RUDER: .000
 .000
 .000

BOFLAP: .000
 -11.700
 -11.700

SPEEDBRK: 25.000
 55.000
 85.000

REFERENCE INFORMATION IN: SREF: 7.4210 SQ.FT.
 LREF: 14.2440 SQ.FT.
 BRREF: 28.4880 SQ.FT.
 XMRD: 37.3000 SQ.FT.
 YMRD: .5000 SQ.FT.
 ZMRD: .5000 SQ.FT.
 SCALE: 11.2500 SQ.FT.

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, C_{HLR}

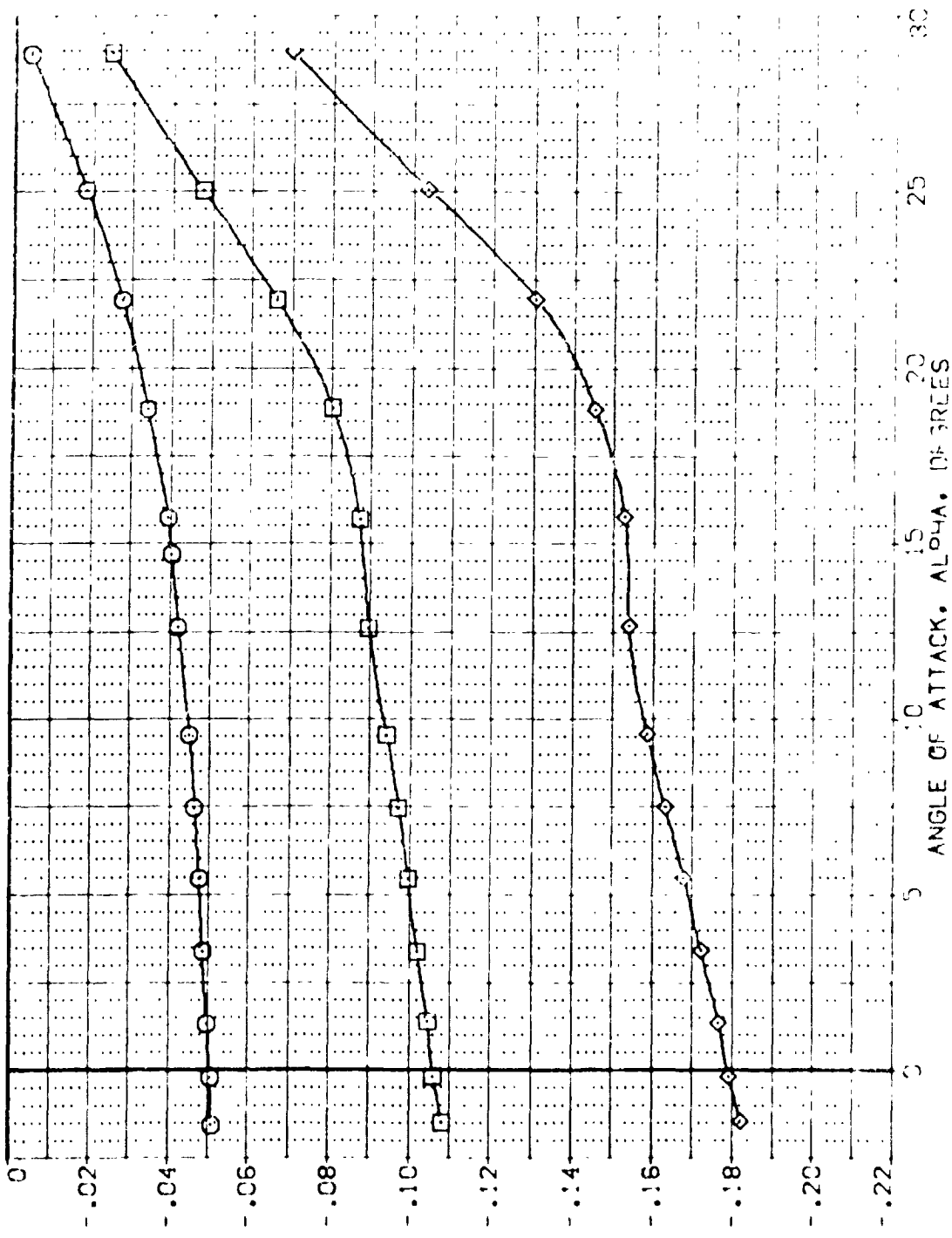


FIG. 35 SPEEDBRAKE HINGEMENTS

(B)MAC = 2.00



DATA SET SYMBOL: (VEK011) (VEK038)

CONFIGURATION DESCRIPTION	BETA	RUDDER	BOFLAP	SPODBK	REFERENCE INFORMATION
APC 97-747 CAS38 B C M F V I V	.000	.000	-11.700		SURE 2.4210 SCALF
APC 97-747 CAS38 B C M F V I V	.000	.000	-11.700		FX 14.2440 SCALF
					BPFL 28.1004 IN
					AMRD 37.3010 IN
					YMRD .0000 IN
					ZMRD .0000 IN
					SCALE 11.7500 SCALE

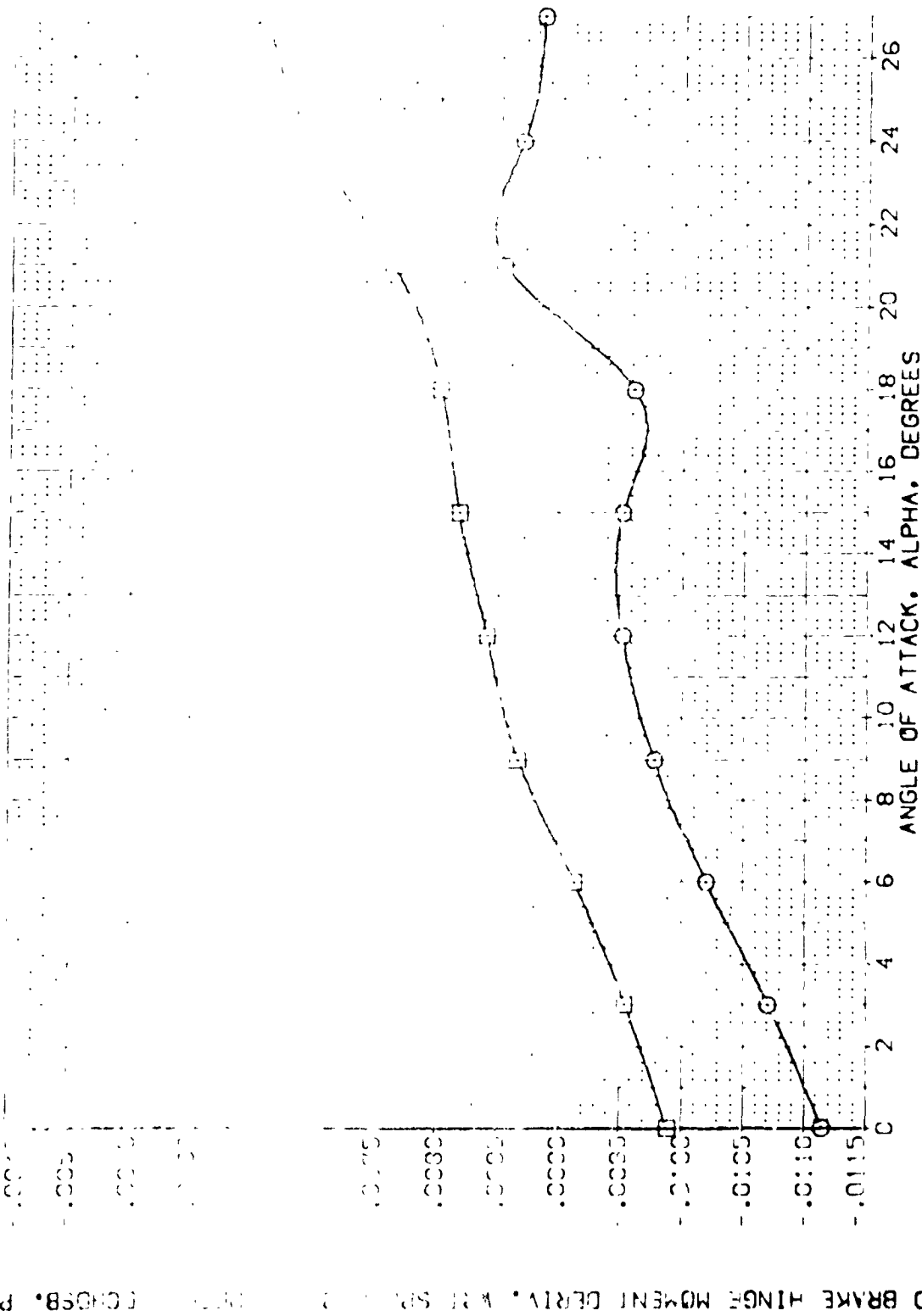


FIG. 35 SPEEDBRAKE HINGEMOMENTS

(M, MACH = 1.60)

DATA SET SYMBOL: (VEK011) (VEN038)

CONFIGURATION DESCRIPTION:
 ARC 97-747 OA:338 B C M F V I V NDI, RN/L
 ARC 97-747 OA:338 B C M F V I V NDI, RN/L

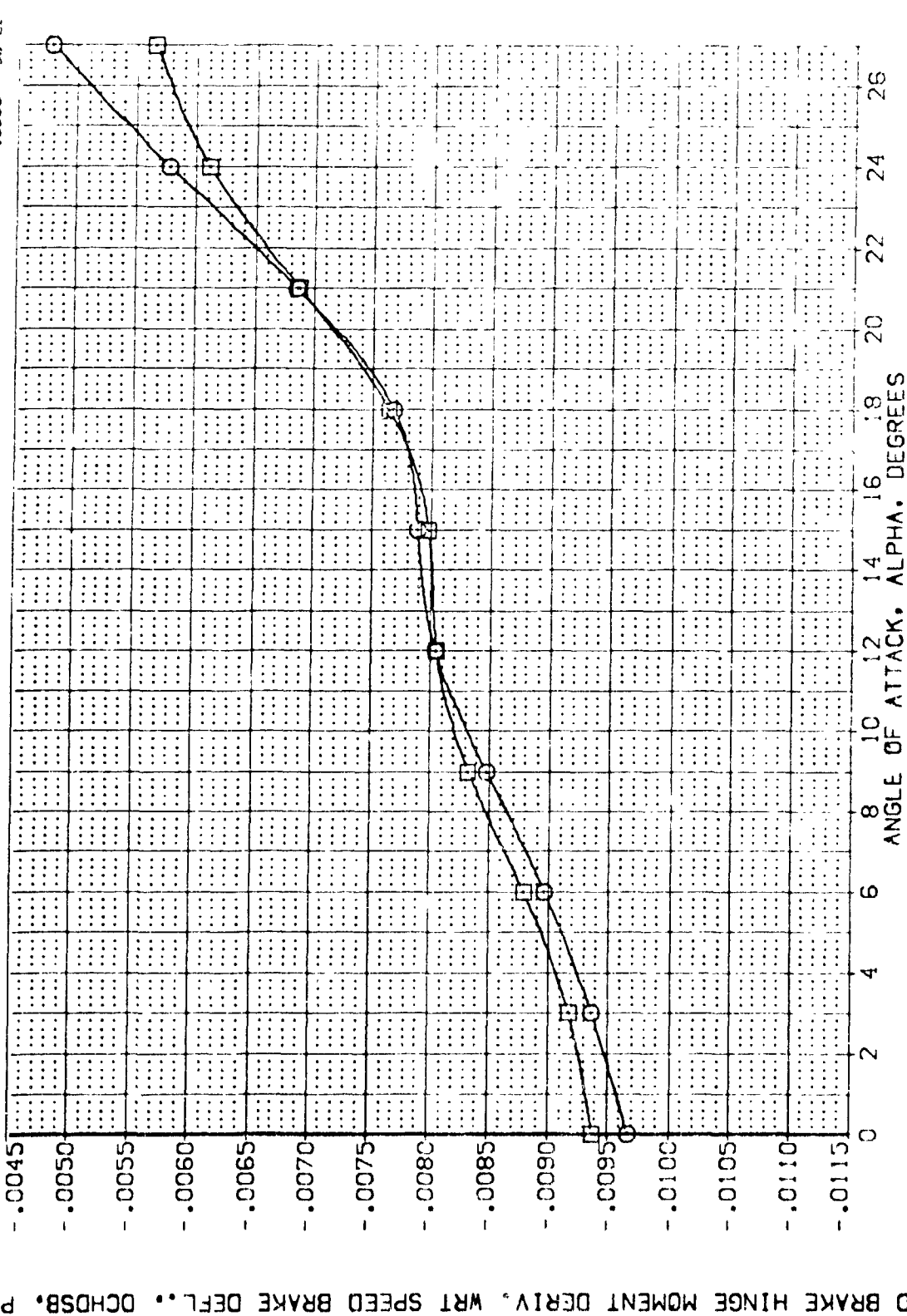
BETA: .000 .000

RUDDER: .000 .000

BOF LAP: -11.700 -11.700

S'DBRK: S'DBRK

REFERENCE INFORMATION:
 SREF: 3.4210 SQ. FT.
 LREF: 14.2440
 XMRP: 28.004
 YMRP: 32.3010
 ZMRP: 0.000
 SCALE: 11.7500 .0300



SPEED BRAKE HINGE MOMENT DERIV. WRT SPEED BRAKE DEFL., DCHDSB, PER DEG

FIG. 35 SPEEDBRAKE HINGEMENTS

(B)MACH = 2.00



SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	.000	1.600	BETA	.000	DEK002	AILRON	AILRON	SREF	2.4210	SC.FT.	
		-10.000	BUF-LAP	-11.700	DEK002	.000	5.000	REF	14.2440		
		55.000	RUDER	.000	DEK021	10.000	15.000	REF	28.1004		
		-10.000	ELEV-R	-10.000				XMRP	32.3010		
								YMRP	.0000		
								ZMRP	11.2500		
								SCALE	.0300		

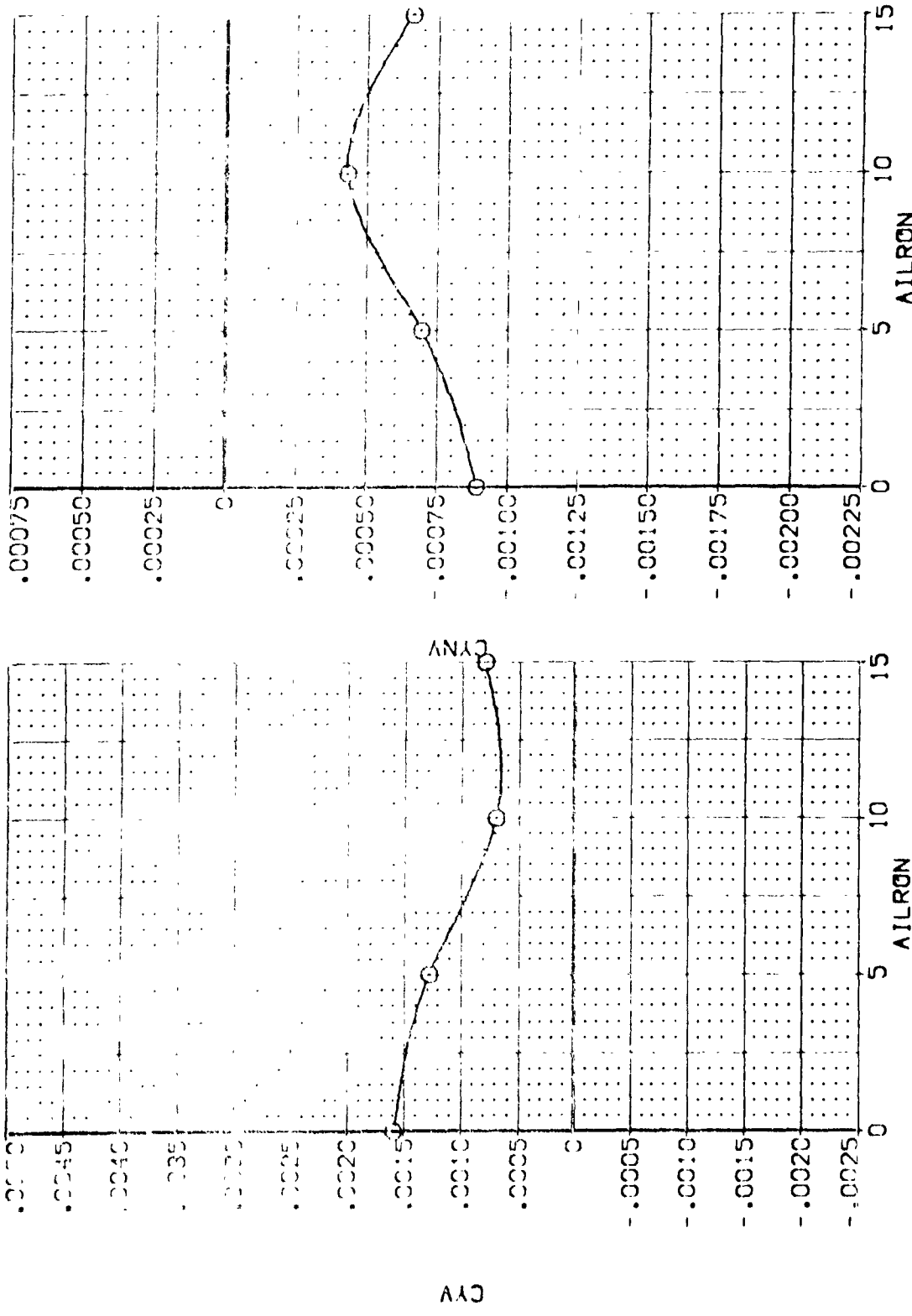


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL
○

ALPHA
10.000

MACH
ELEVON
SPOBRK
ELEV-L

PARAMETRIC VALUES
1.600 BETA
-10.000 BOFLAP
55.000 RUDDER
-10.000 ELEV-R

.000 DATASET
-11.700 DEK002
.000 DEK021
-10.000

DATA SOURCE
AILRON
.000
10.000

DATASET
DEK005
DEK044

AILRON
5.000
15.000

REFERENCE INFORMATION
2.4210 SQ.FT.
14.2443
28.1004
32.3010
11.7500
10.3000
SCALE

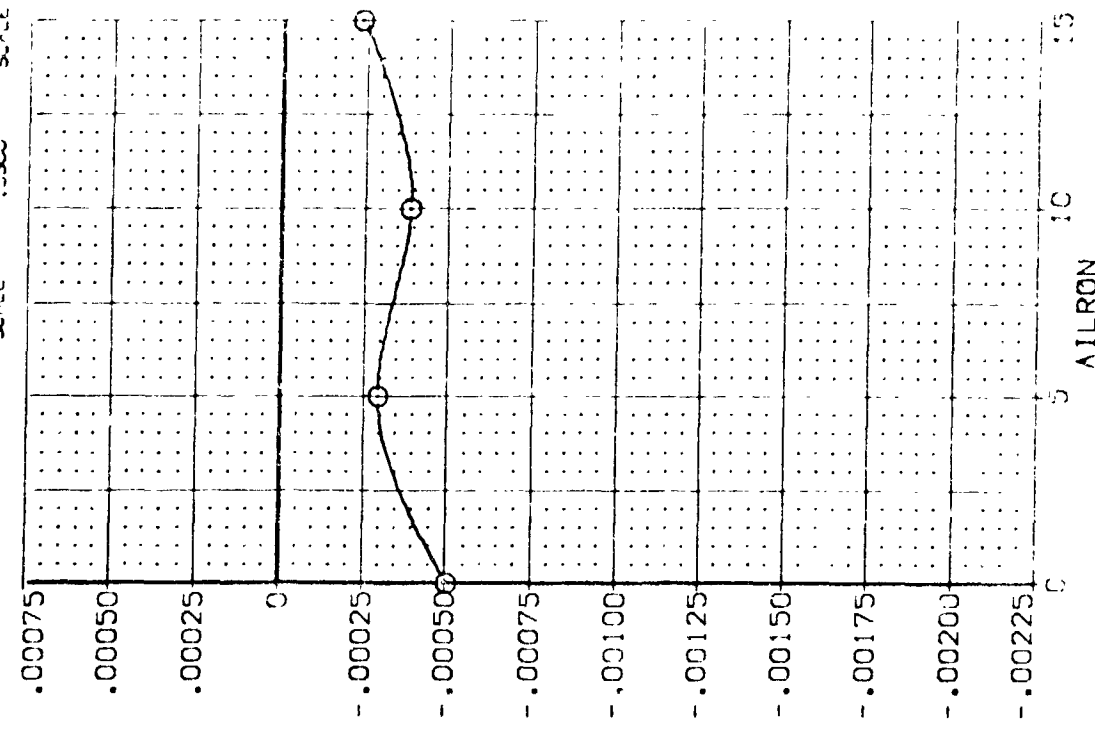
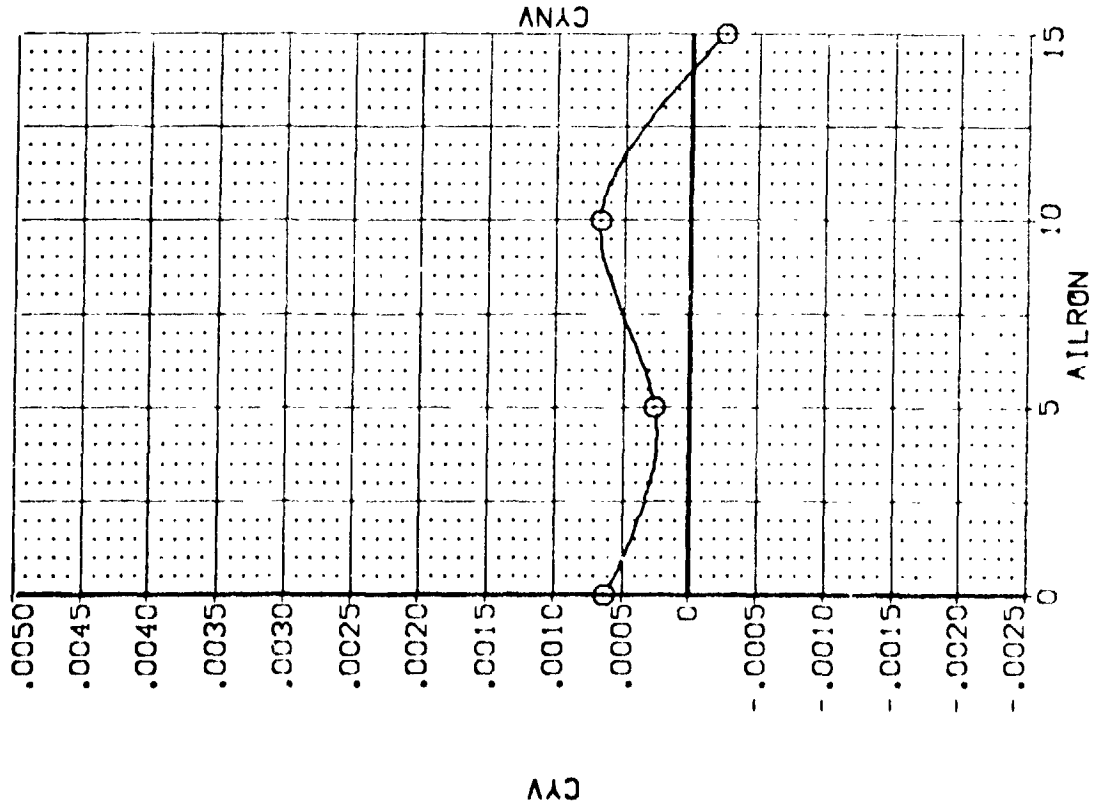


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL



ARC 97-747 0A538 B C M F W1 V NOM. RN/L (DEK002)

SYMBOL
○

ALPHA
20.000

MACH
ELEVON
SPDRK
ELEV-L

PARAMETRIC VALUES
BETA
BDFLAP
RUDDER
ELEV-R

.000
-10.000
55.000
-10.000

DATA SOURCE
AILRON
10.000

DEK005
DEK044

AILRON
5.000
15.000

REFERENCE INFORMATION
SREF
LREF
BREF
XMRP
YMRP
ZMRP
SCALE
50. FT.
N.
N.
N.
N.
N.
N.
11.2500
.0300

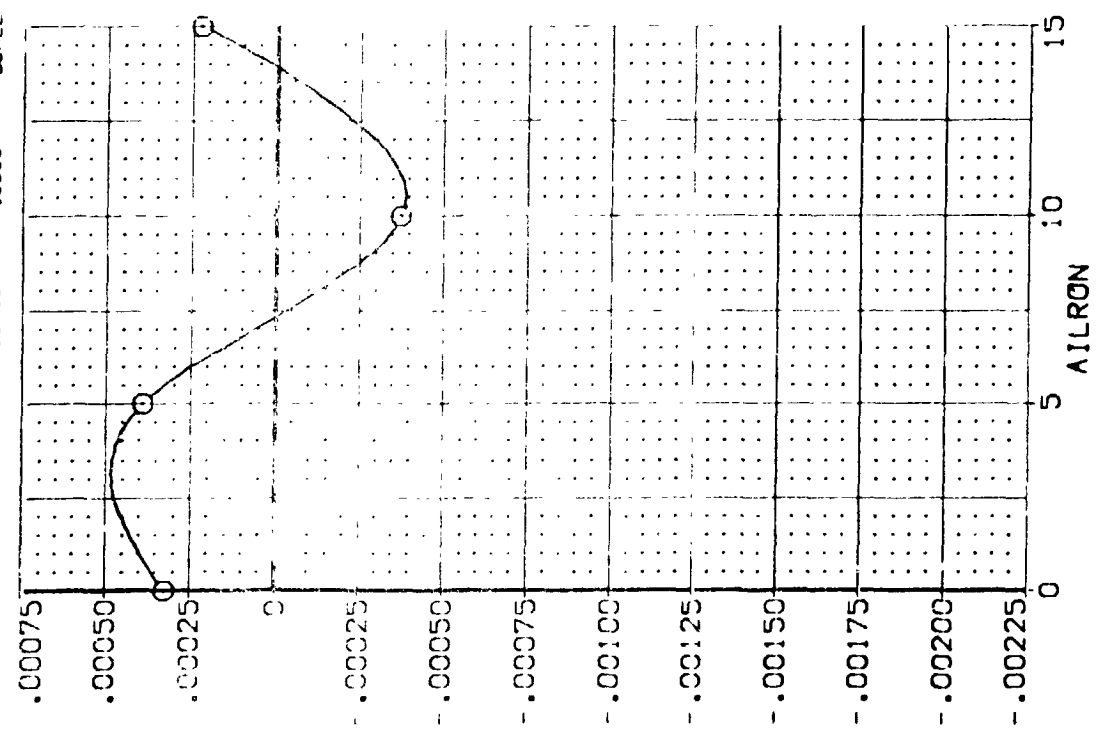
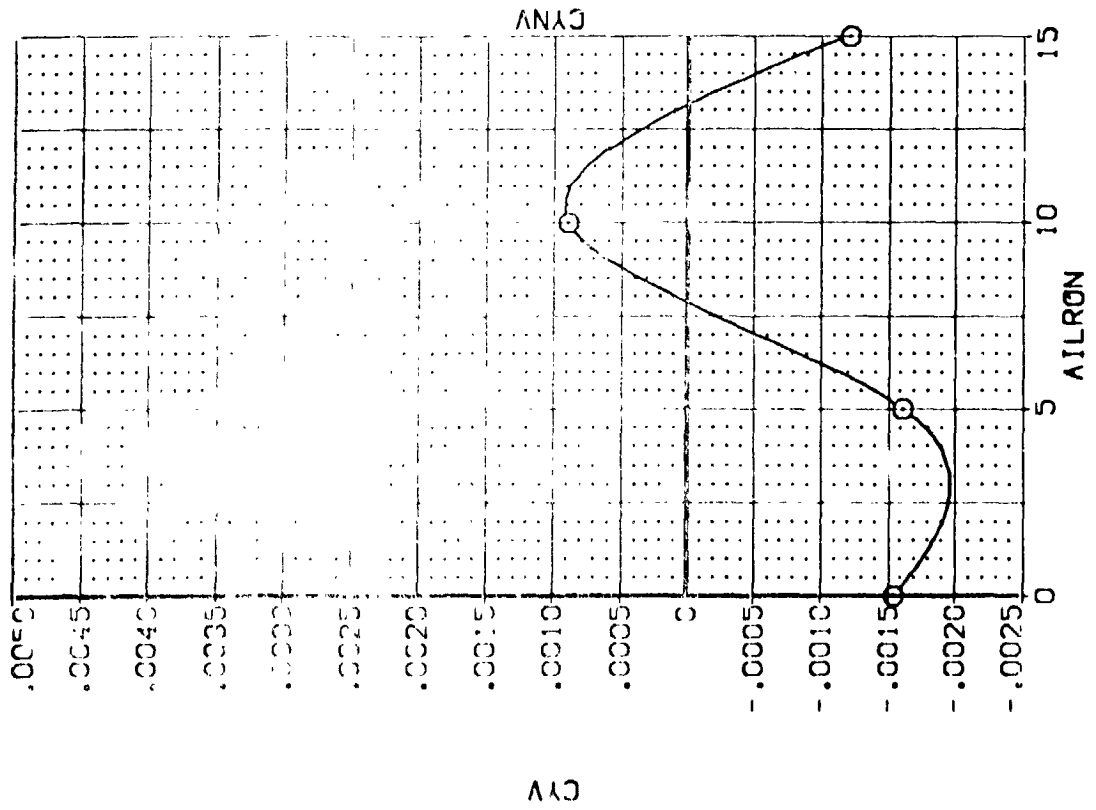


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (DEK002)

SYMBOL ○

PARAMETRIC VALUES
 MACH 2.000 BETA .000 DATASET .000
 ELEVON -10.000 BOFLAP -11.700 DEK007 DEK002
 SPOBRK 55.000 RUDDER .000 DEK021 DEK021
 ELEV-L -10.000 ELEV-R -10.000

DATA SOURCE
 AILRON .000 DATASET AILRON SREF
 10.000 DEK005 5.000 LREF
 DEK044 15.000 XMRP 28.1004
 YMRP .0000
 ZMRP .0000
 SCALE 11.2500

REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.2440 IN.
 28.1004 IN.
 32.3010 IN.
 .0000 IN.
 11.2500 IN.
 .0300 SCALE

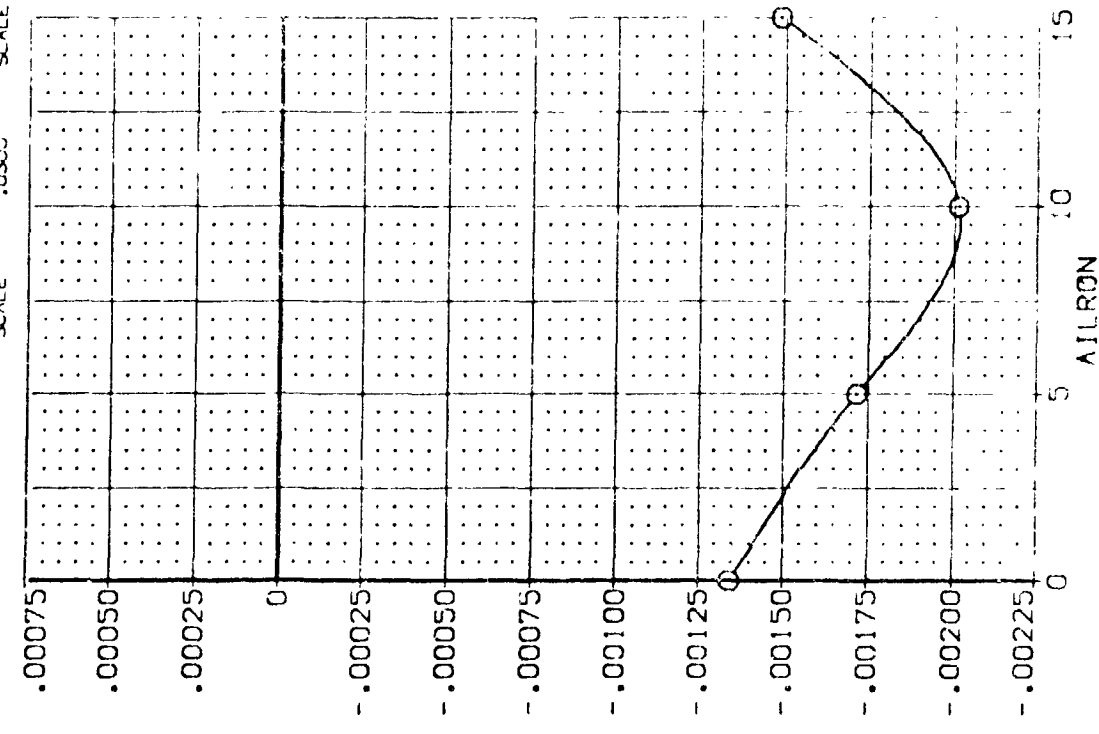
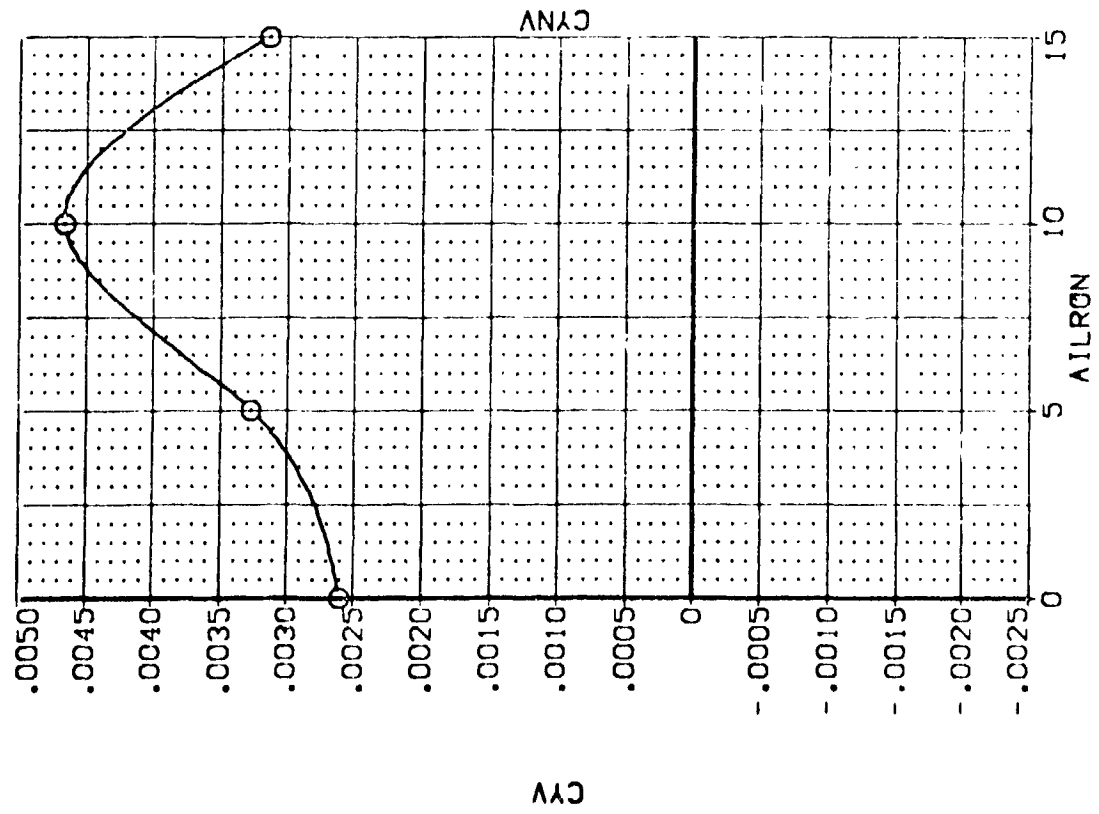


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL



SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE			REFERENCE INFORMATION		
○	10.000	ELEVON	2.000	BETA	.000	DEK002	ATLRON	5.000	SREF	2.421C	SC.FT.
		SPOBRK	-10.000	BOFLAP	-11.700	DEK002	DEK005	15.000	REF	14.244C	
		ELEV-L	55.000	RUDER	.000	DEK021	DEK044		BREF	28.100A	
			-10.000	ELEV-R	-10.000				XMRP	32.301C	
									YMRP	.000C	
									ZMRP	11.250C	
									SCALE	.0300	SCALE

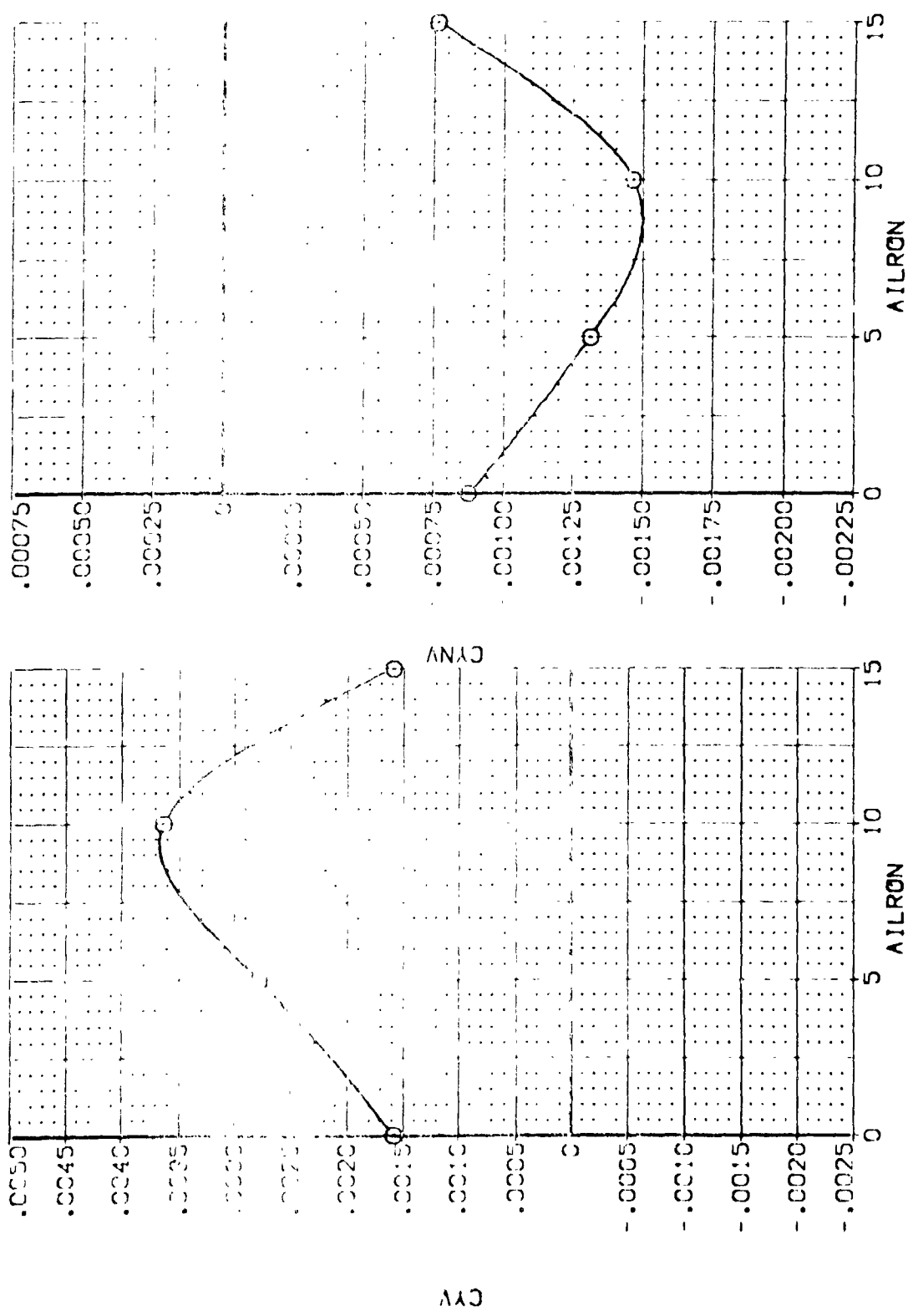


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL

SYMBOL	ALPHA	MACH	PARAMETRIC VALUES			DATA SOURCE	REFERENCE INFORMATION		
○	20.000	ELEVON	2.000	BETA	.000	AILRON	SREF	2.4210	SC. FT.
		ELEVON	-10.000	BOFLAP	-11.700	DEK005	LREF	14.2440	IN.
		SPOBRK	55.000	RJODER	.000	DEK044	BREF	28.1004	IN.
		ELEV-L	-10.000	ELEV-R	-10.000		XMRP	32.3010	IN.
							YMRP	.0000	IN.
							ZMRP	11.2500	IN.
							SCALE	.0300	SCALE

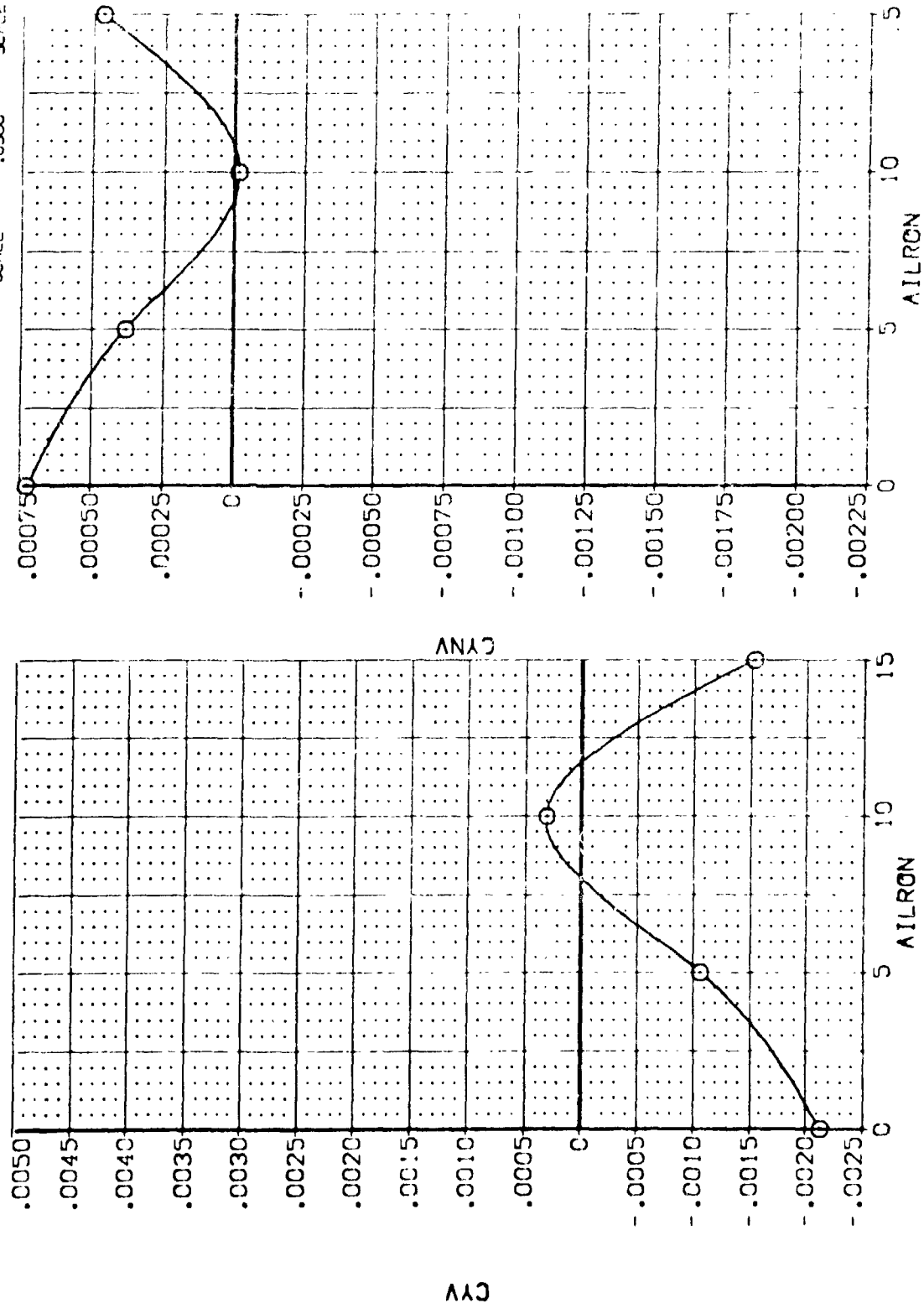


FIG. 36 EFFECT OF AILERON DEFLECTION ON VERTICAL TAIL



SYMBOL
 ○
 □
 ◇

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 1.500
 BETA .000
 AILRON .000
 SPOBRK -11.700
 ELEV-R .000

.000
 .000
 75.000
 .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 28.1004
 XMRR 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

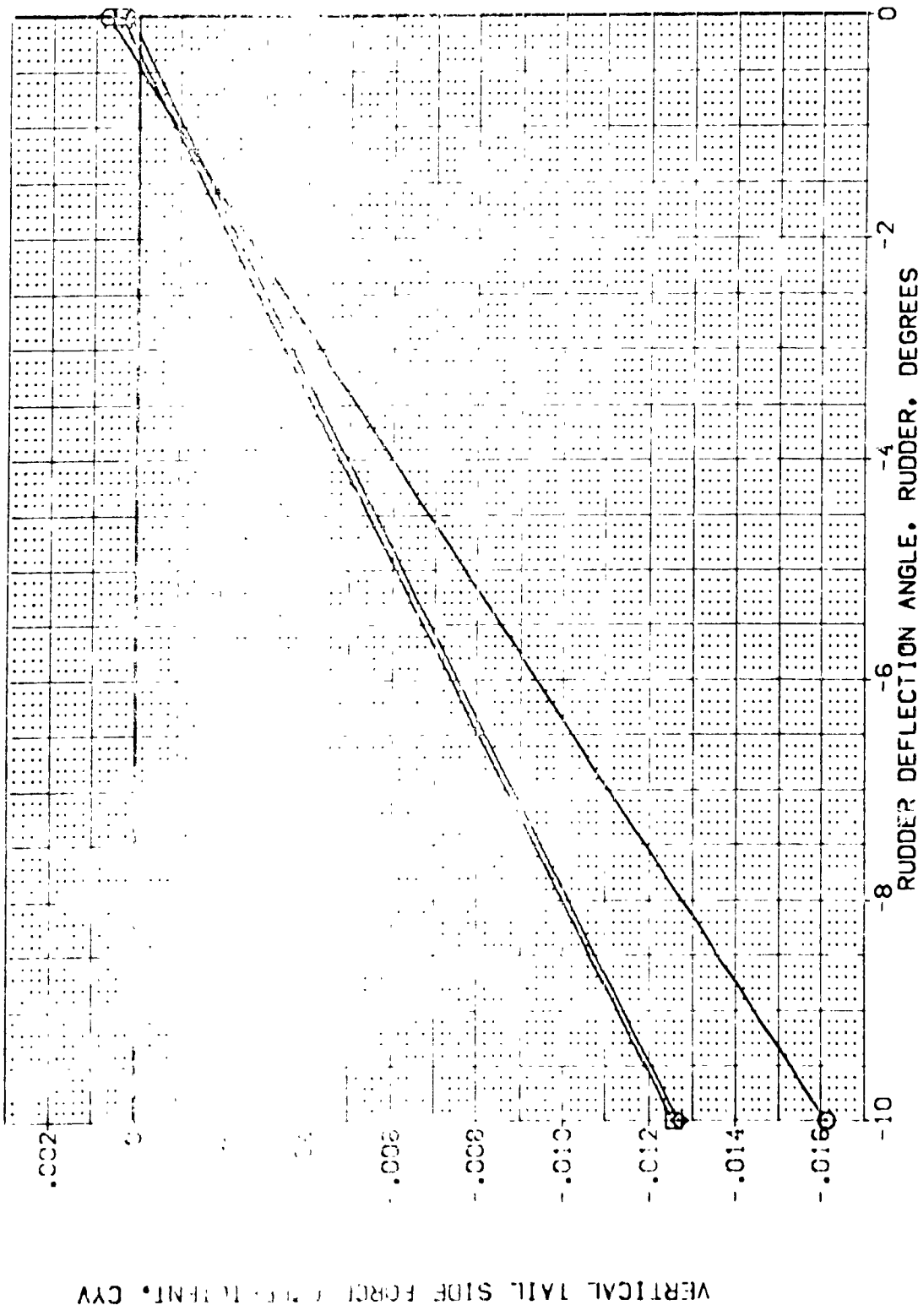


FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL. SPEEDBRAKE = 25 DEGREES

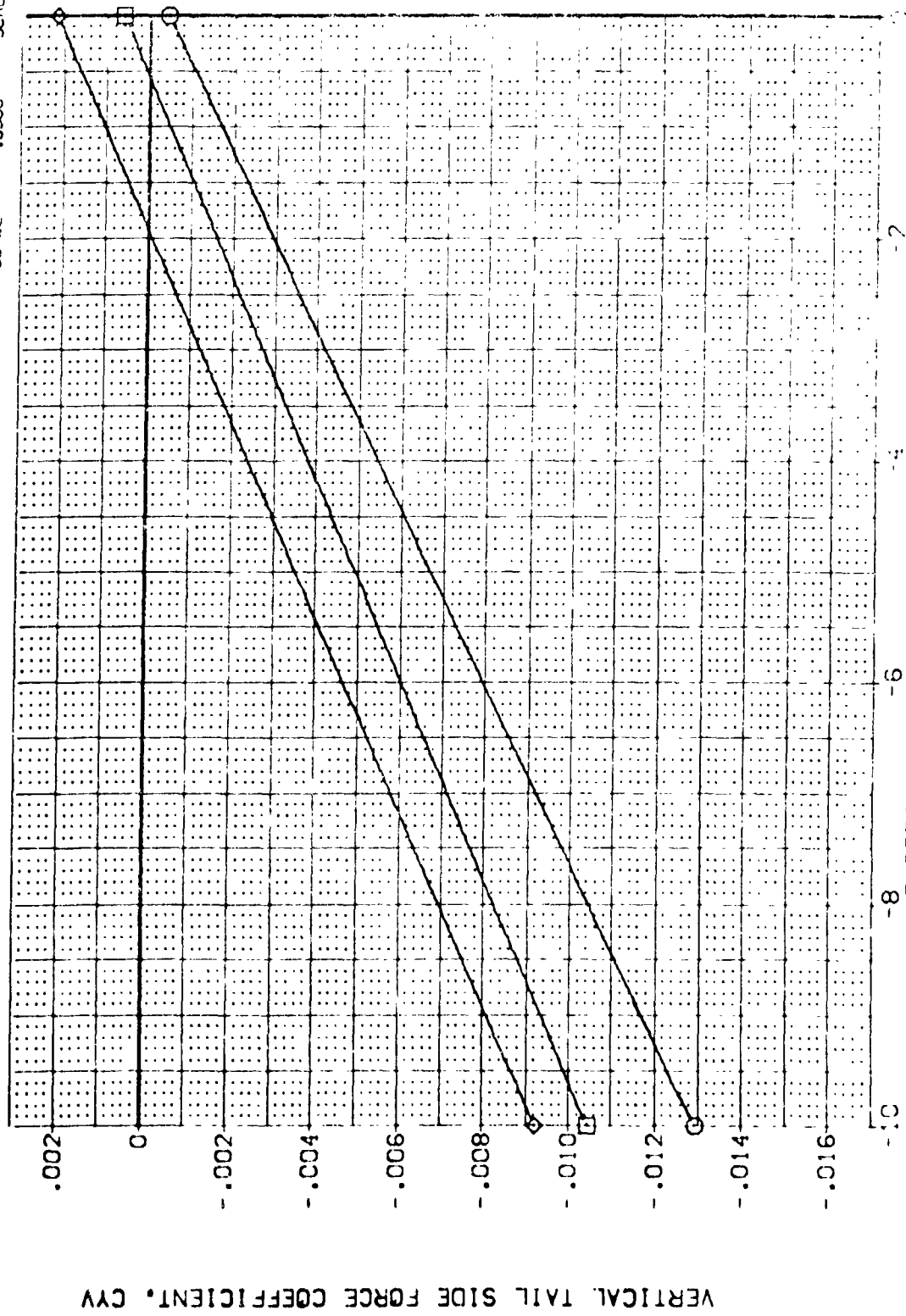
SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

MACH
 2.000
 ELEVON
 BOFLAP
 ELEV-L

PARAMETRIC VALUES
 BETA .000
 AILFTN .000
 SPOBRK 25.000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4710
 LREF 14.2440
 BREF 28.1004
 XMRP 22.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300



VERTICAL TAIL SIDE FORCE COEFFICIENT, CY

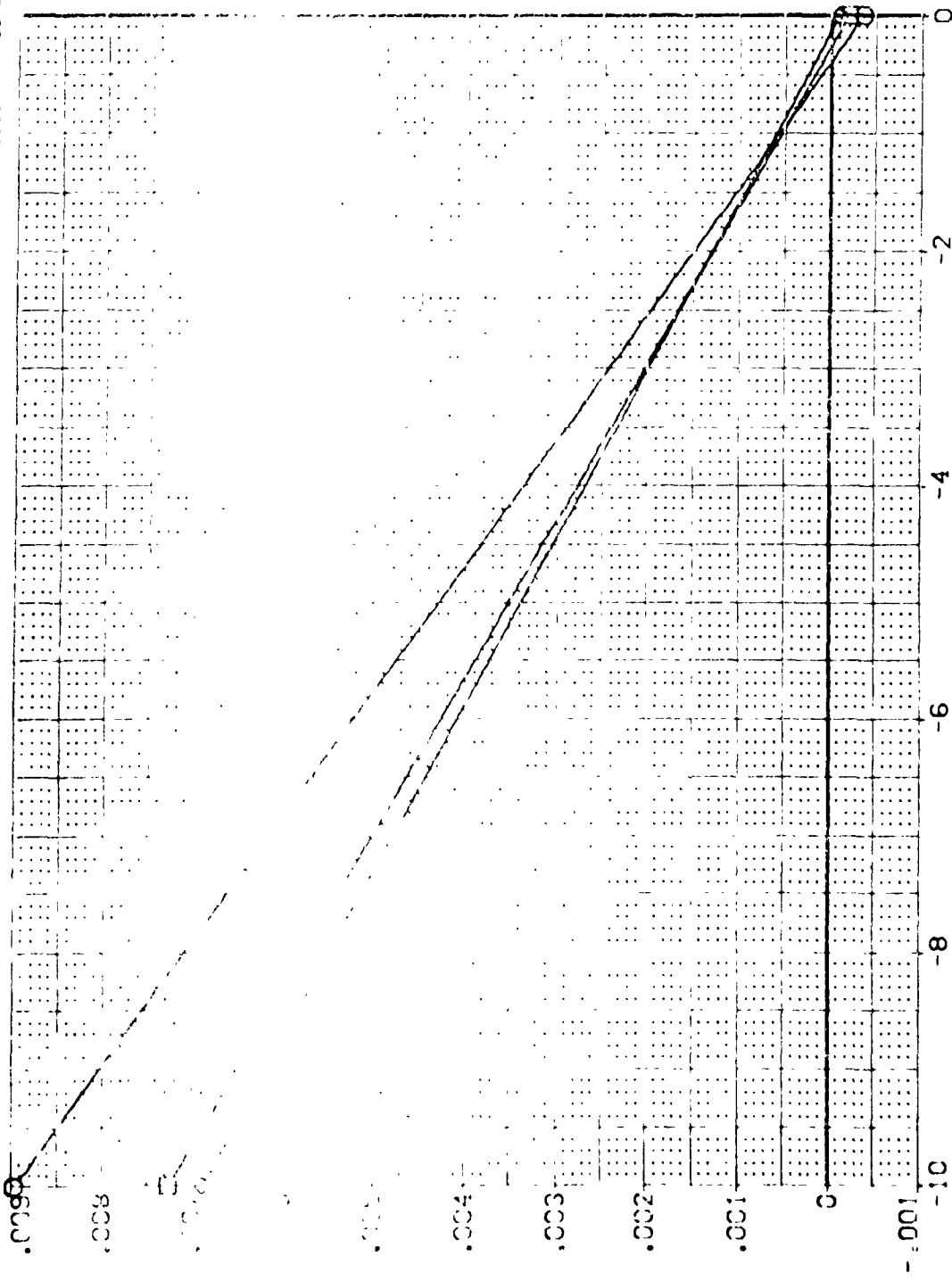
RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES



ARC 97-747 0A53B B C M F W1 V NOM. RN/L (DEK035)

SYMBOL	ALPHA	MACH	PARA-METRIC VALUES	REFERENCE INFORMATION
□	.000	ELEVON	1.600 BETA	SREF 2.4210
◇	10.000	ELEVON	.000 AILTRON	LREF 14.2440
	20.000	BOFLAP	-11.700 SPOBRK	BRF 28.1004
		ELEV-L	.000 ELEV-R	MRP 32.3010
				ZMRP .0000
				SCALE 11.2500
				SCALE .0300



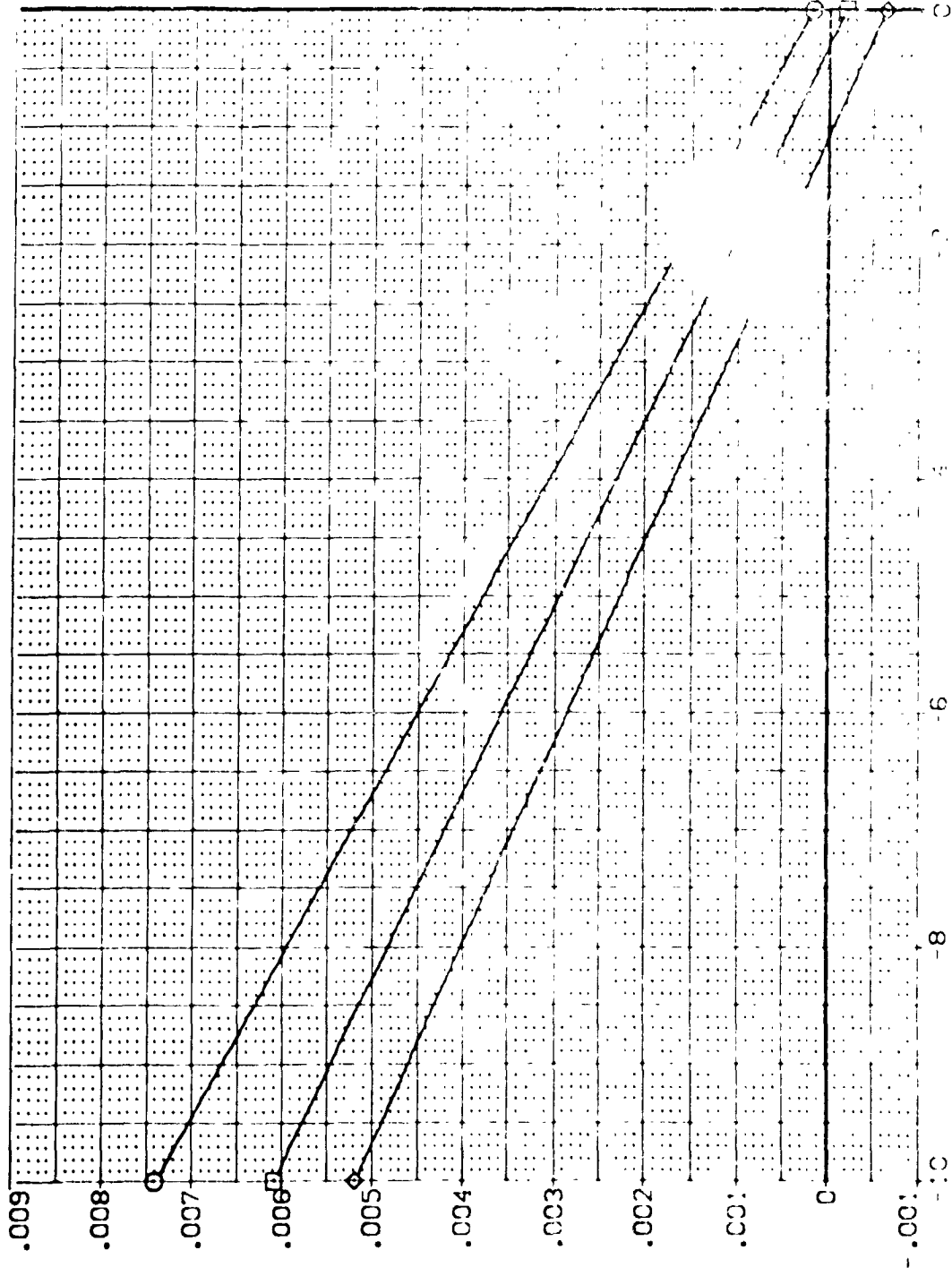
VERTICAL TAIL YAWING MOMENT (Cm) vs Rudder Deflection Angle (Degrees)

FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES

SYMBOL
 ○
 □
 ◇

PARAMETRIC VALUES	
MACH	2.000
BETA	.000
ELEVON	.000
AILERON	.000
BDFLAP	-11.700
SPOBRK	75.000
ELEV-L	.000
ELEV-R	.000

REFERENCE INFORMATION	
SREF	2.4210
LREF	14.2440
BREF	28.1004
XMRP	32.3010
YMRP	0.000
ZMRP	11.2500
SCALE	.0300



VERTICAL TAIL YAWING MOMENT COEFFICIENT, C_{YV}

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 37 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 25 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NON	RYAL
[AEK025]	ARC 97-747 CAS38 B C M F V	Y	RYAL
[AEP036]	ARC 97-747 CAS38 B C M F V	Y	RYAL
[AEC027]	ARC 97-747 CAS38 B C M F V	Y	RYAL

ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
.000	.000	-11.700	25.000	SREF 2.4710
10.000	.000	-11.700	25.000	LREF 14.2410
20.000	.000	-11.700	25.000	BREF 28.1004
				XMRP 37.3010
				YMRP .0000
				ZMRP 11.7000
				SCALE .0300

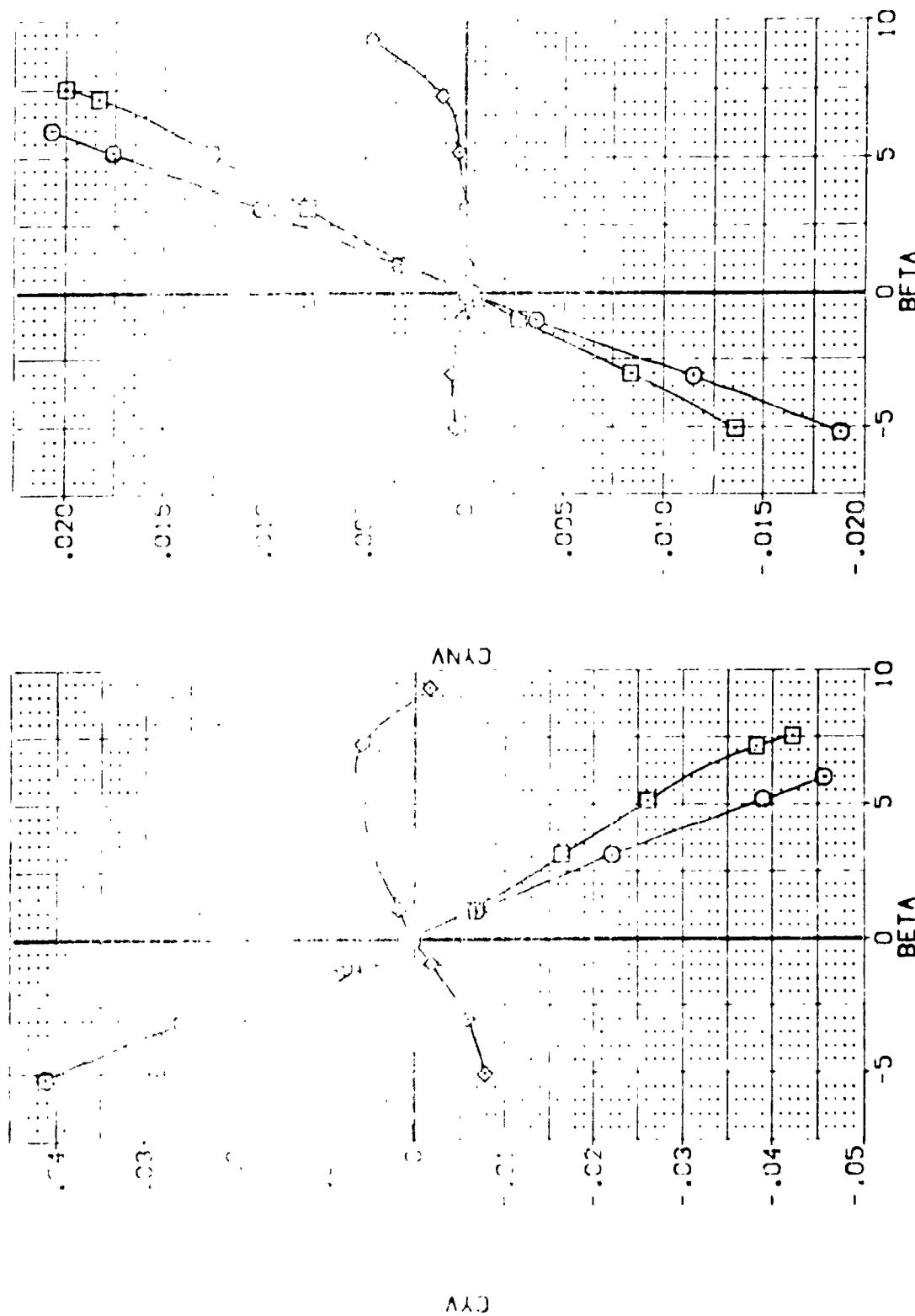


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(A) MACH 1.60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
{ AEK075 }	ARC 97-747 DAS38 B C M F V I V	.000	.000	-11.700	25.000	SPEF 2.4210
{ AEK076 }	ARC 97-747 DAS38 B C M F V I V	10.000	.000	-11.700	25.000	LREF 4.2440
{ AEK077 }	ARC 97-747 DAS38 B C M F V I V	20.000	.000	-11.700	25.000	BREF 28.1000
						XREF 37.3010
						YREF 11.0000
						ZREF 11.0000
						SCALE .0300

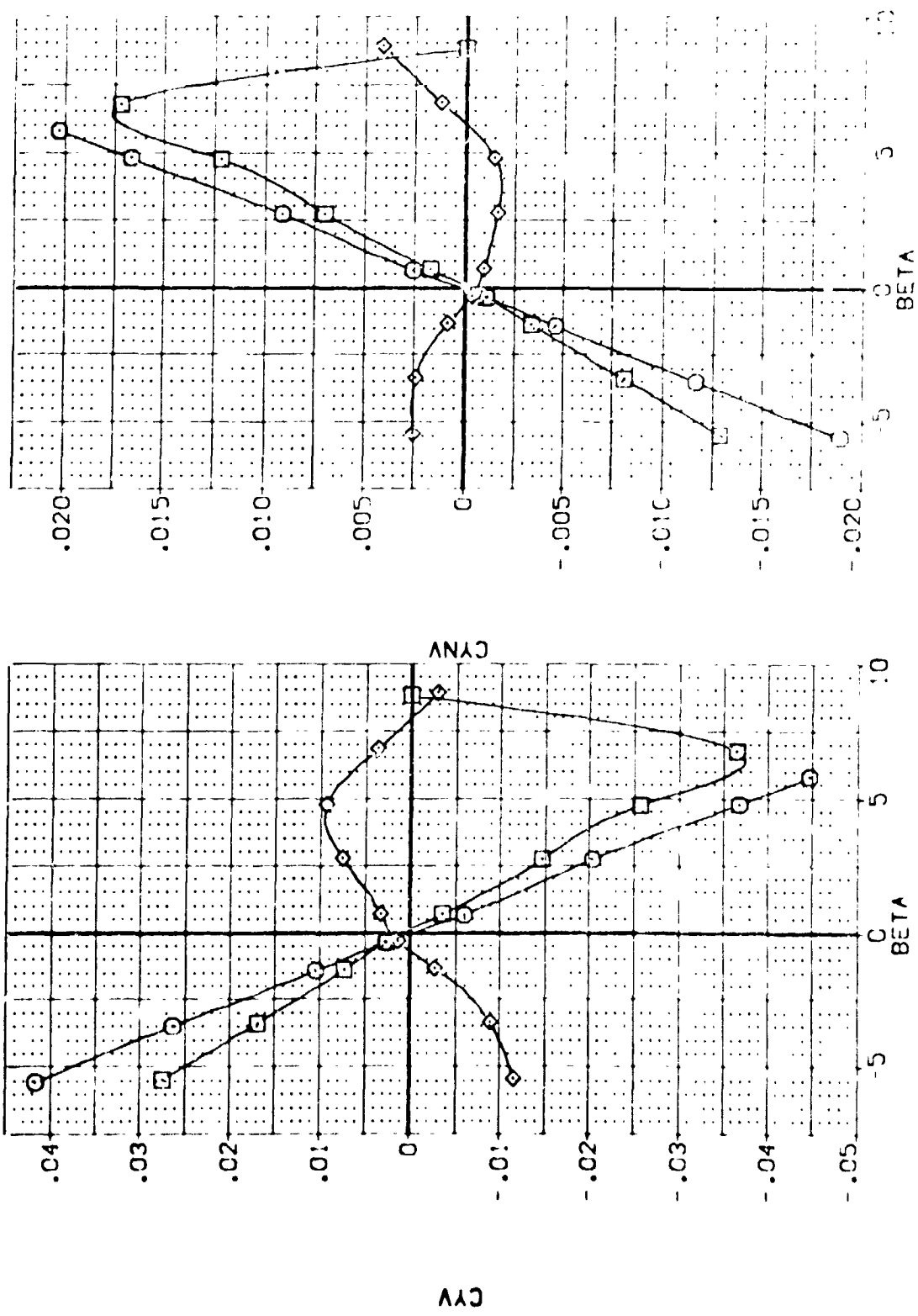


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES
 (B)MAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEKC35)	ARC 97-747	QAS38	B	C	M	F	V1	V	NOM.	RN/L
(AEKC36)	ARC 97-747	QAS39	B	C	M	F	V1	V	NOM.	RN/L
(AEKC37)	ARC 97-747	QAS38	B	C	M	F	V1	V	NOM.	RN/L

ALPHA RUDDER BOFLAP SPEEDBK

.000	-10.000	-11.700	25.000
10.000	-10.000	-11.700	25.000
20.000	-10.000	-11.700	25.000

REFERENCE INFORMATION

SREF	2.4210	SC.FT.
BREF	14.2440	N.
BREF	28.1004	N.
YMRR	32.3010	N.
ZMRR	.0000	N.
SCALE	11.2500	SCALE
	.0300	

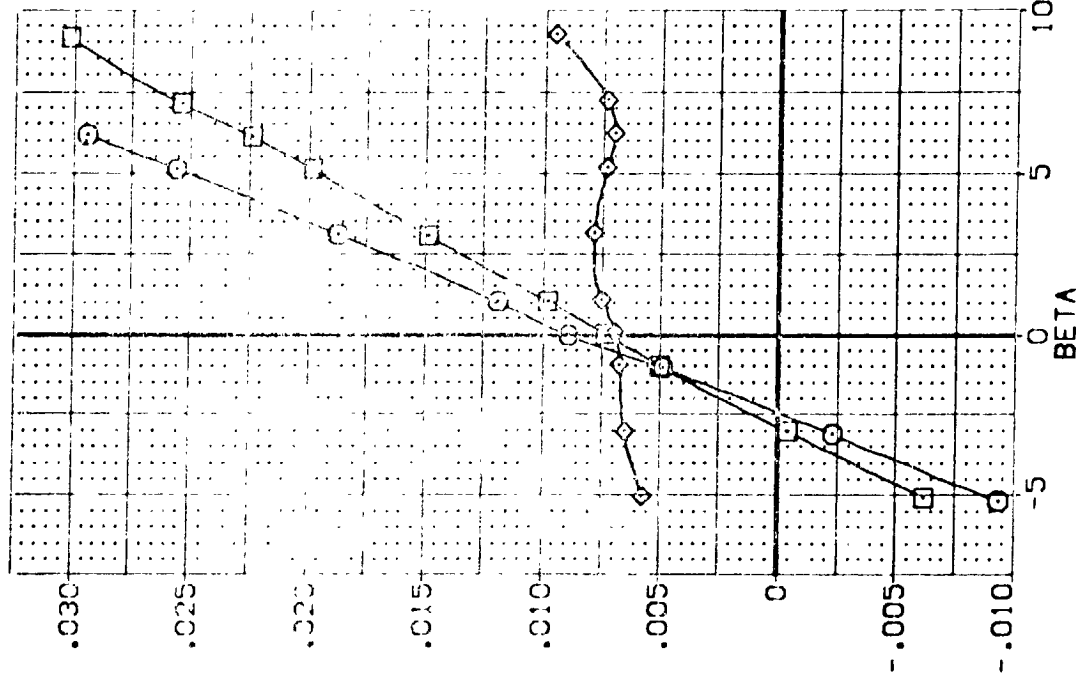
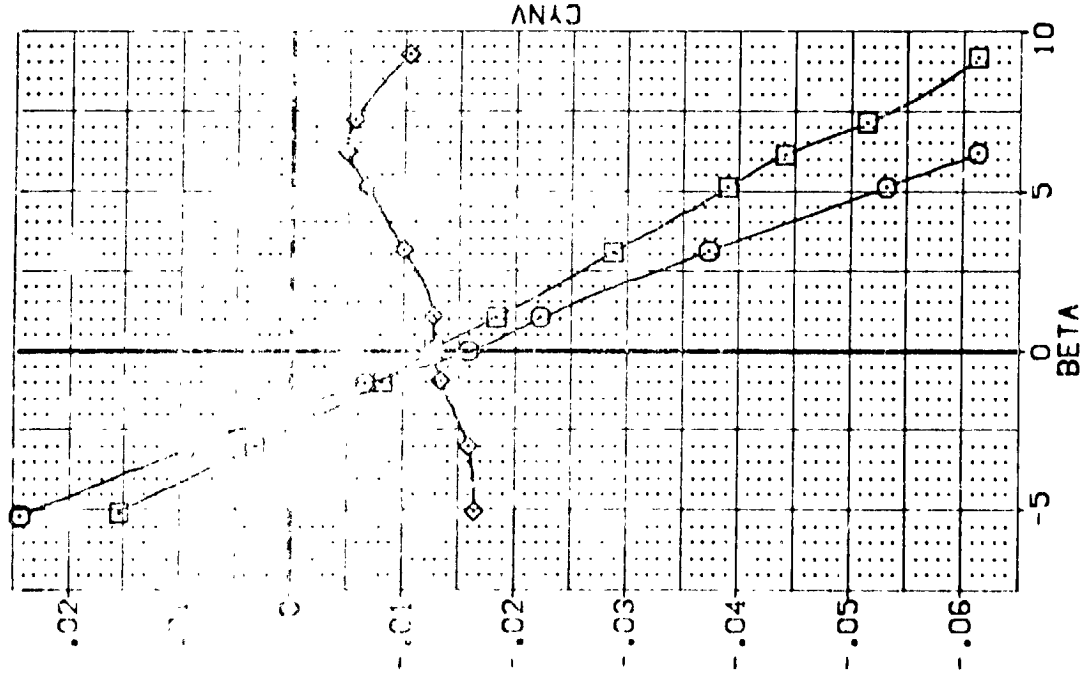


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

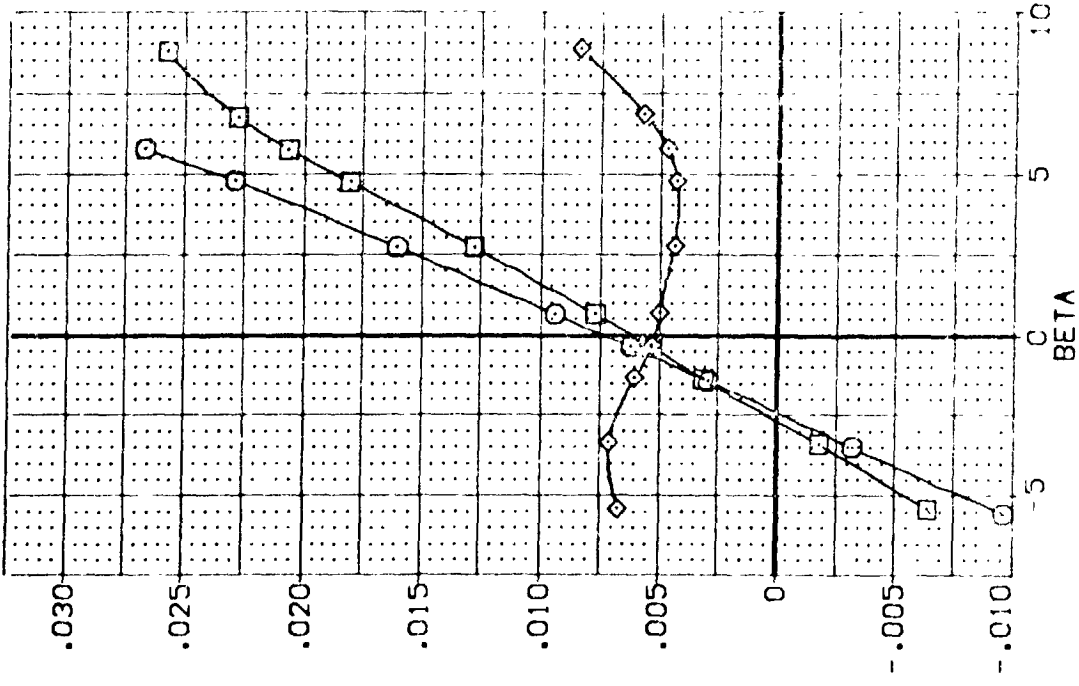
(A)MACH = 1.60

DATA SET SYMBOL: [AE035], [AE036], [AE037]

CONFIGURATION DESCRIPTION:
 ARC 97-747 OAS38 B C M F V I V
 ARC 97-747 OAS38 B C M F V I V
 ARC 97-747 OAS38 B C M F V I V

ALPHA: .000, 10.000, 20.000
 RUDDER: -10.000, -10.000, -10.000
 BOFLAP: -11.700, -11.700, -11.700
 SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION:
 SREF: 2.4210 SO.FT.
 LREF: 14.2140
 BREF: 28.1004
 XARR: 32.0000
 YMRP: .0000
 ZMRP: 11.2500
 SCALE: .0300



REFERENCE INFORMATION:
 SREF: 2.4210 SO.FT.
 LREF: 14.2140
 BREF: 28.1004
 XARR: 32.0000
 YMRP: .0000
 ZMRP: 11.2500
 SCALE: .0300

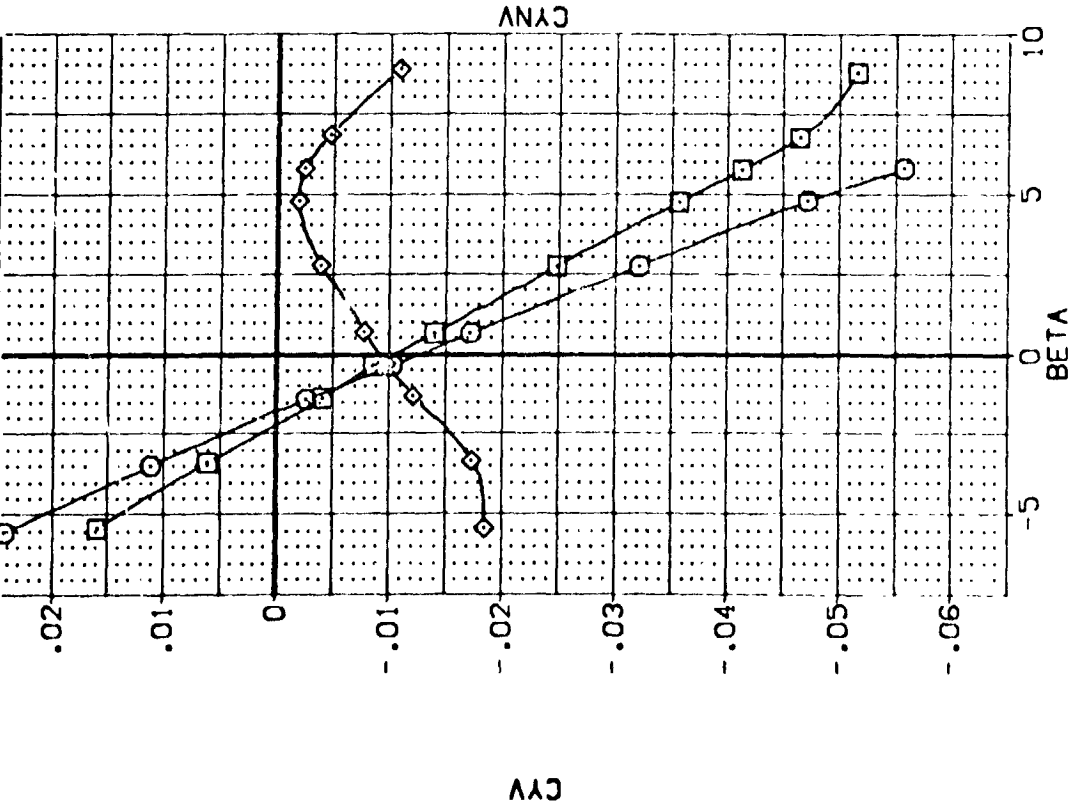


FIG. 38 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 25 DEGREES

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

ALPHA RUDDER BDF AP SPEED

REFERENCE INFORMATION

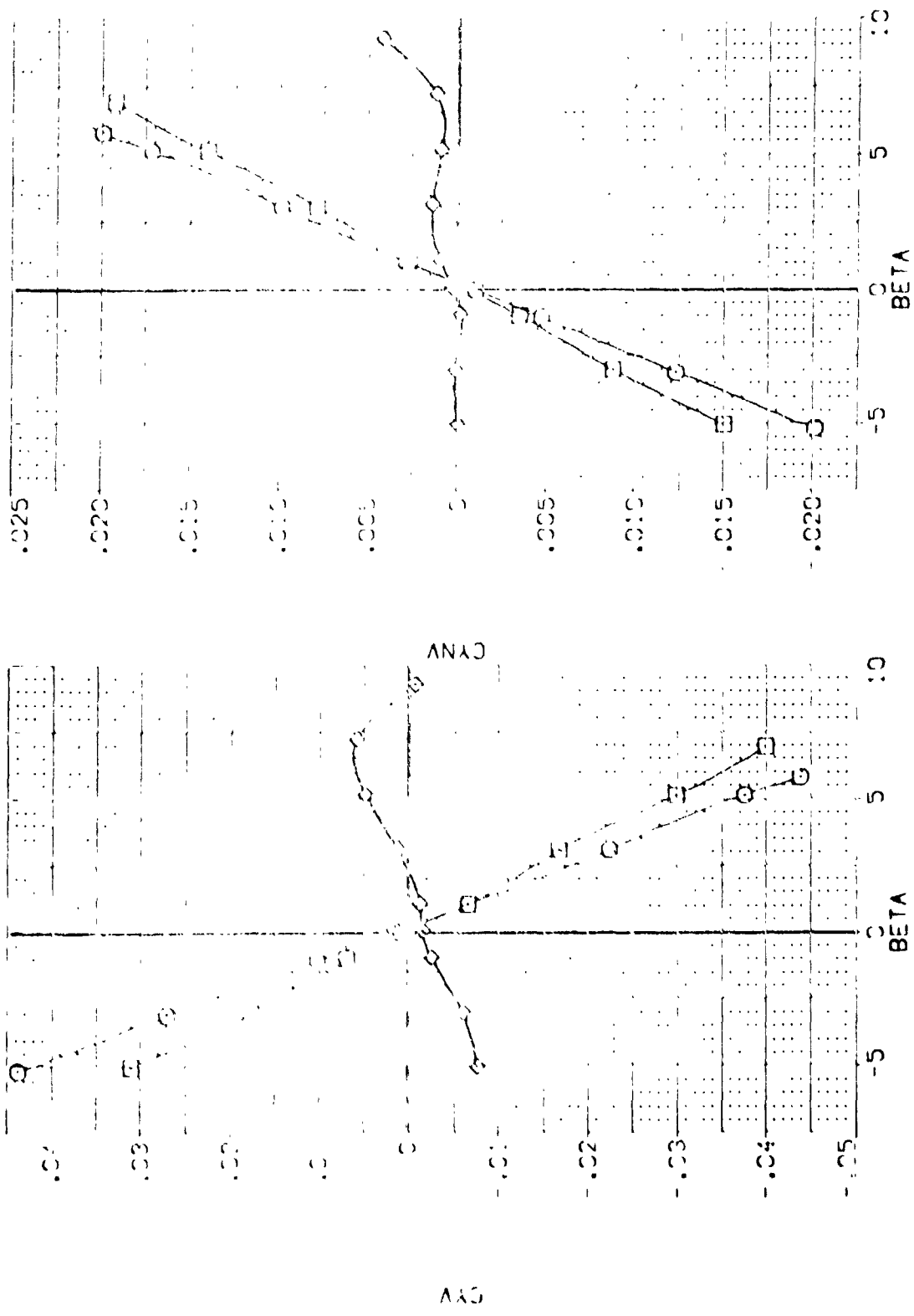


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

CAN/C = 1.60

DATA POINT SYMBOL CONFIGURATION DESCRIPTION

(A) (1,2) (O) ARC 97-747 CAS38 B C M F V I V NOT: RN/L

(B) (3) (O) ARC 97-747 CAS38 B C M F V I V NOT: RN/L

(C) (4) (O) ARC 97-747 CAS38 B C M F V I V NOT: RN/L

ALPHA .000 RUDDER .000 BDF LAP .700 SPEEDRY 55.000

10.000 .000 -11.700 55.000

20.000 .000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 SCALF

SPREF 14.2440

SPREF 28.0004

SPREF 32.3000

YMAX 0.000

ZMAX 11.7500

SCALE 10.000

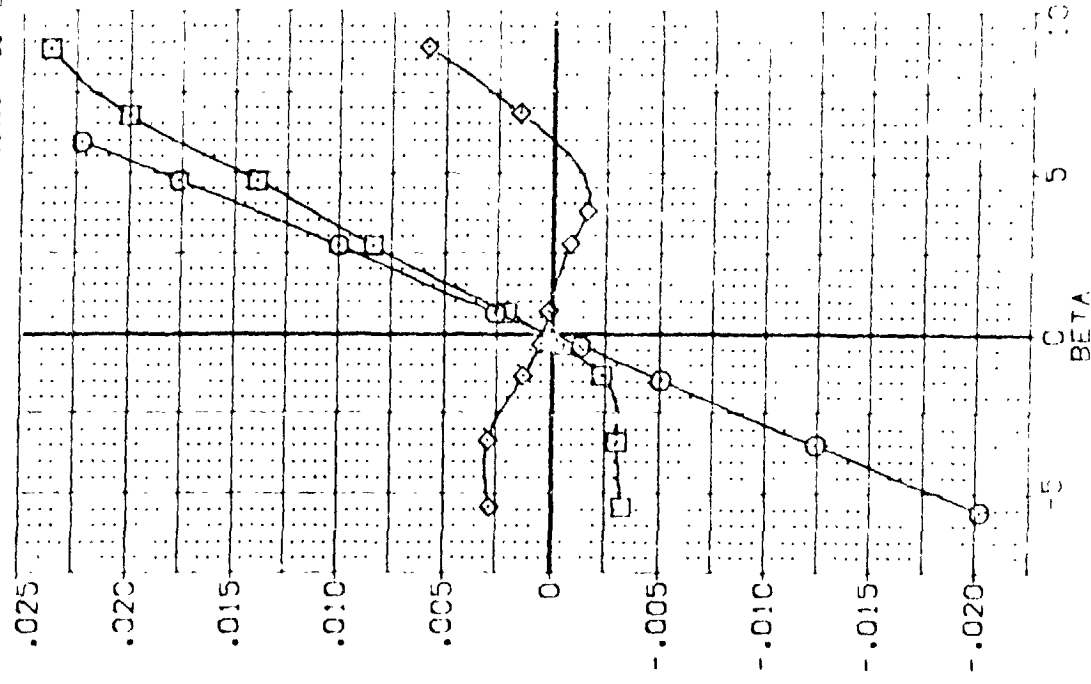
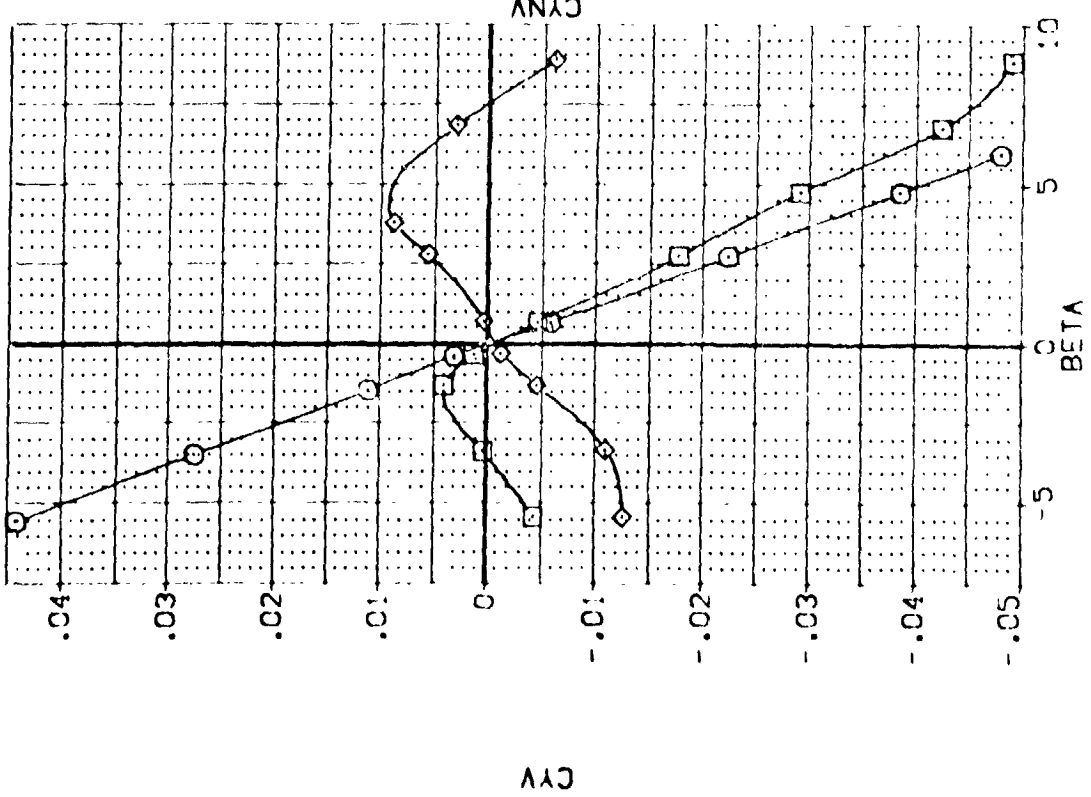


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(B) MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (AEK029) □ ARC 97-747 GAS38 B C M F V | V NOM* RNVL
 (AEK030) ◇ ARC 97-747 GAS38 B C M F V | V NOM* RNVL
 (AEK031) □ ARC 97-747 GAS38 B C M F V | V NOM* RNVL

ALPHA RUDDER SDF LAP SPOBRY
 .000 -10.000 -11.700 55.000
 10.000 -10.000 -11.700 55.000
 20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 50. FT.
 LREF 14.244C
 BREF 28.1004
 XMRP 32.3010
 YMRP 00.00
 ZMRP 11.2500
 SCALE .0300 SCALE

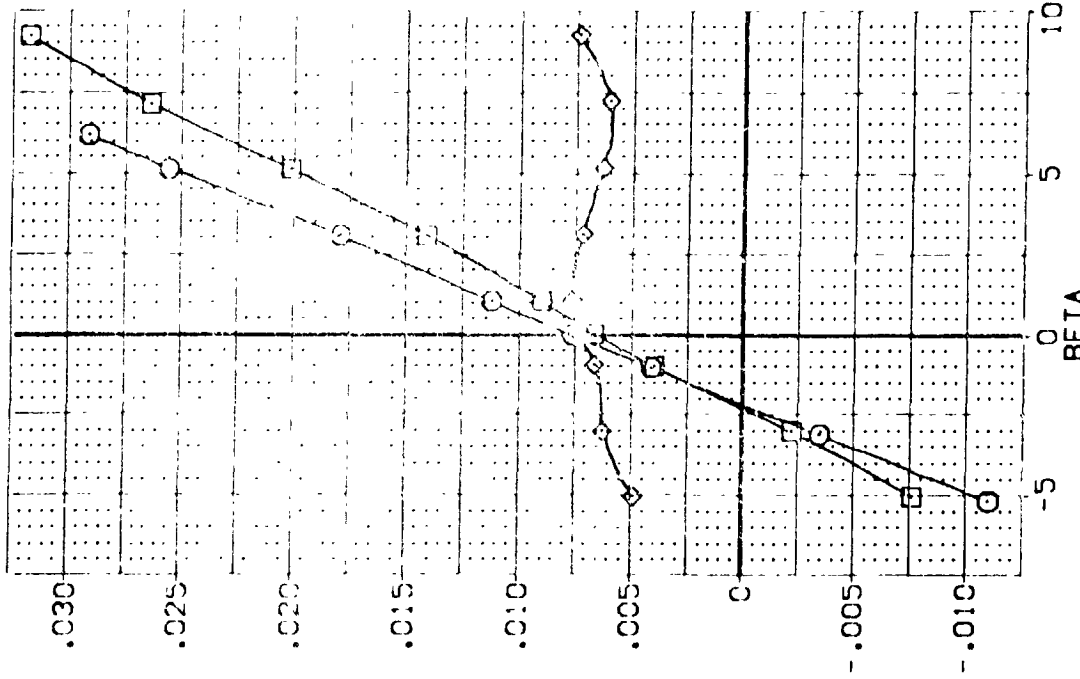
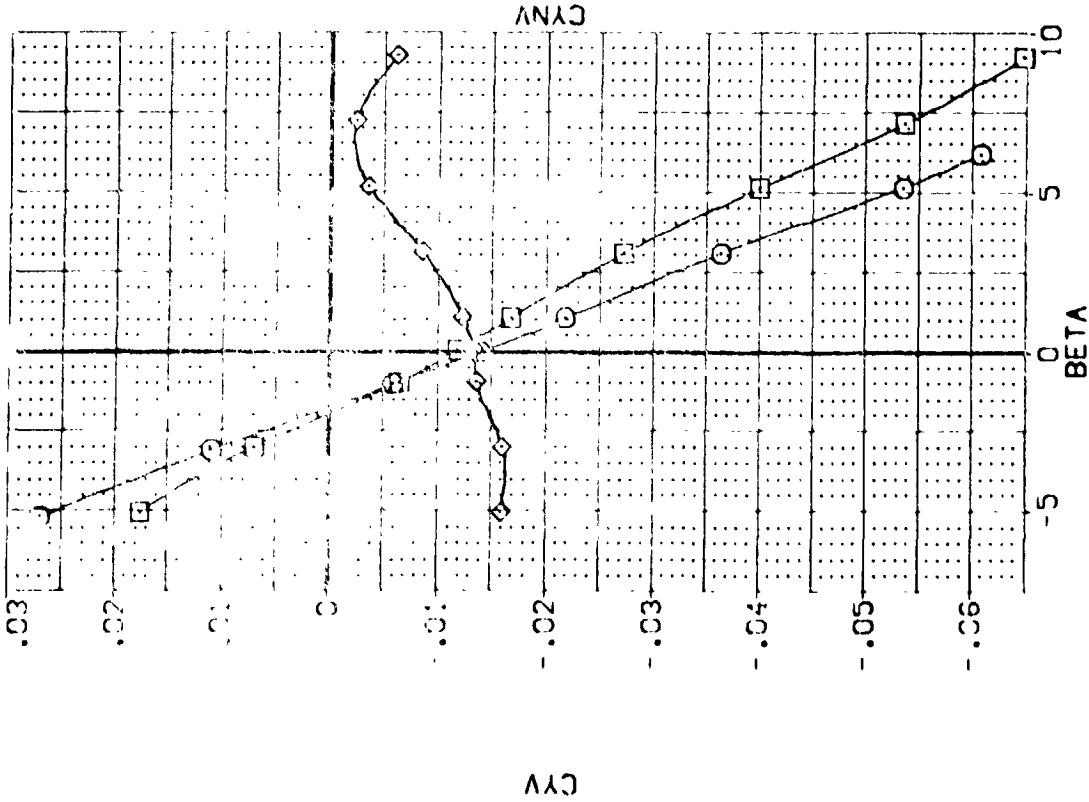


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AEK029)	ARC 97-747	DA538	B	C	M	F	V1	V	NOM.	RV/L
(AEK030)	ARC 97-747	DA538	B	C	M	F	V1	V	NOM.	RV/L
(AEK031)	ARC 97-747	DA538	B	C	M	F	V1	V	NOM.	RV/L

ALPHA RUDDER BOG LAP SPEEDBRK

.000	-10.000	-11.700	55.000
10.000	-10.000	-11.700	55.000
20.000	-10.000	-11.700	55.000

REFERENCE INFORMATION

SREF	2.4210	50.77
UREF	14.2440	11.700
BREF	28.1004	11.700
YMRP	32.3010	11.700
ZMRP	11.7000	11.700
SCALE	.0500	SCALE

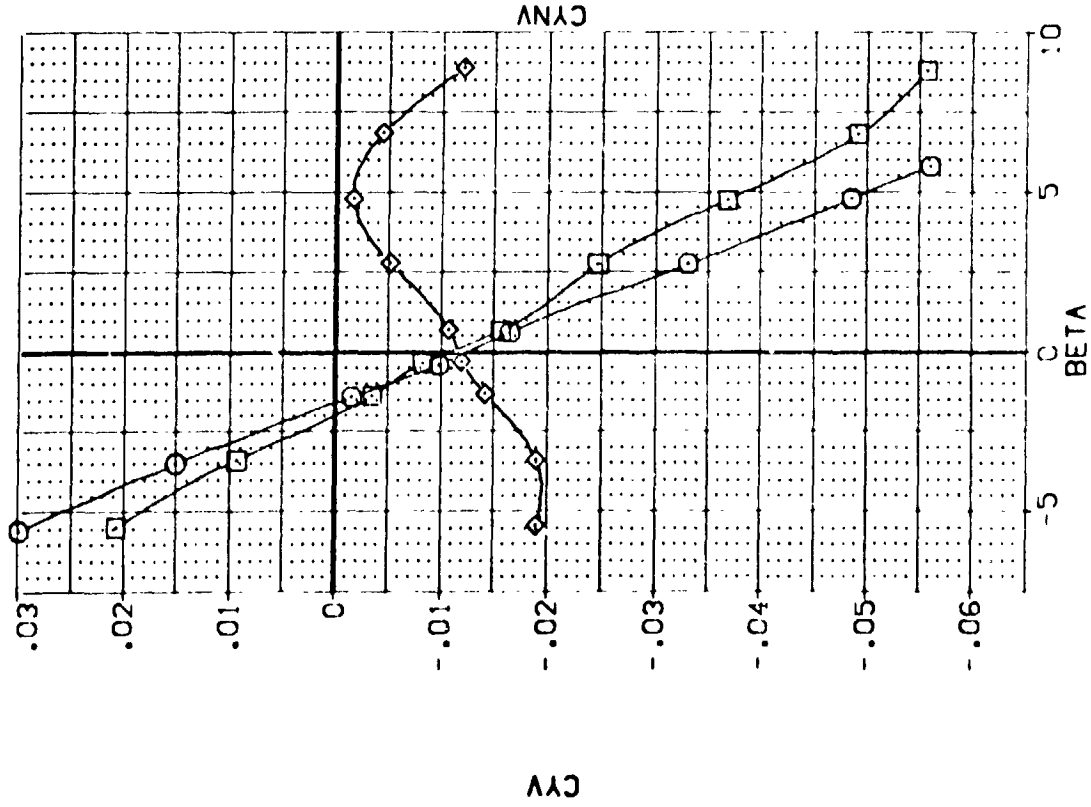


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(B) VAC = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PEK037) ○ ARC 97-747 0A538 B C M F V I V NOM. RV/L
 (AEK033) ○ ARC 97-747 0A538 B C M F V I V NOM. RV/L
 (PEK034) ○ ARC 97-747 0A538 B C M F V I V NOM. RV/L

ALPHA RODDER BOCLAP SPOBRK
 .000 -25.000 -11.700 55.000
 10.000 -25.000 -11.700 55.000
 20.000 -25.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 XMRP 28.1004
 YMRP 32.0000
 ZMRP 11.2500
 SCALE .0300 SCALE

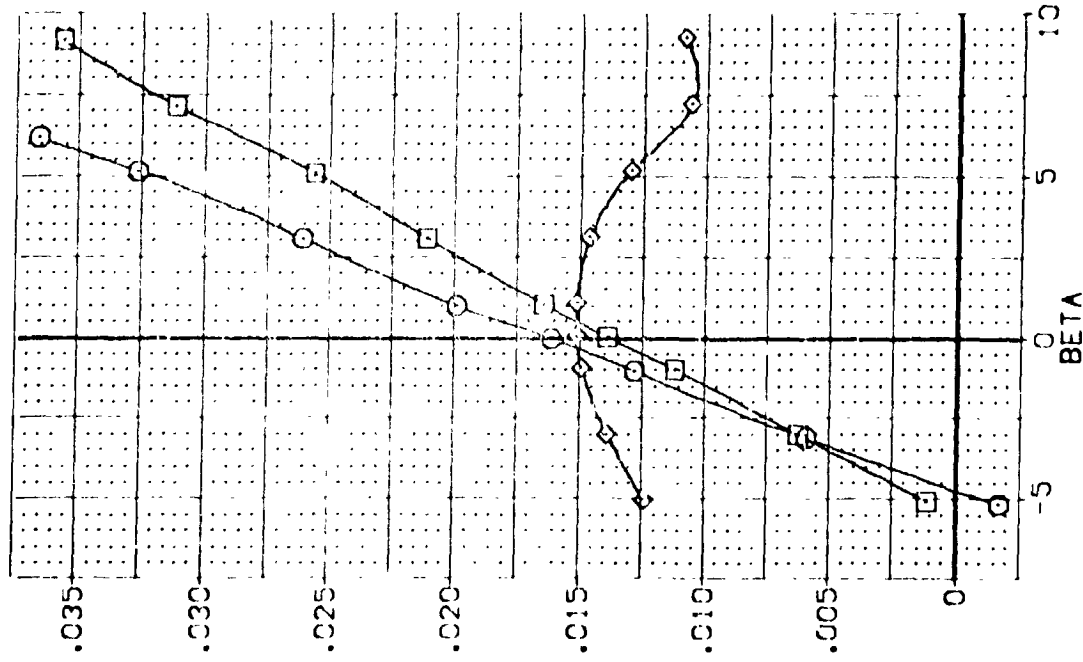
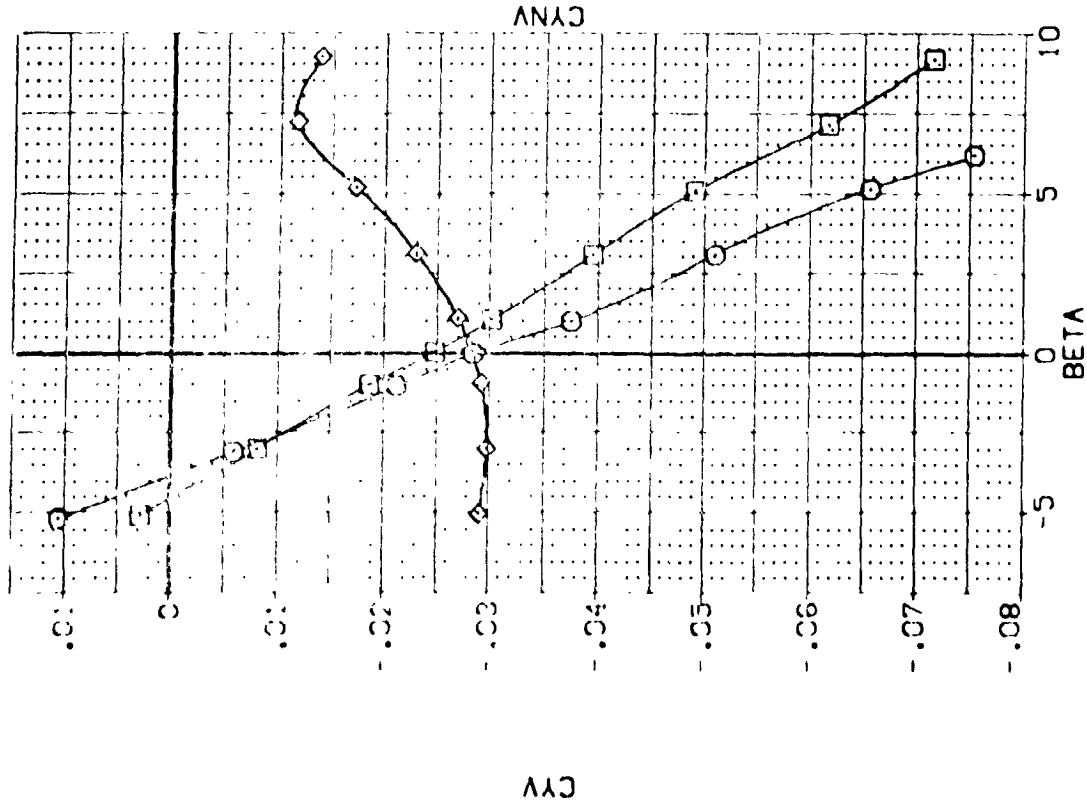


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PEM032) (O) ARC 97-747 0A538 B C M F VI V NOM. RN/L

(PEM033) (O) ARC 97-747 0A538 B C M F VI V NOM. RN/L

(PEM034) (O) ARC 97-747 0A538 B C M F VI V NOM. RN/L

ALPHA RUDDER BDF LAP SPEEDBRK

10.000 -25.000 -11.700 55.000

20.000 -25.000 -11.700 55.000

30.000 -25.000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 SC.FT.

LREF 14.2440

BREF 28.1004

YMRD 37.3010

ZMRD 30.0000

SCALE 11.2500

SCALE 1.0300

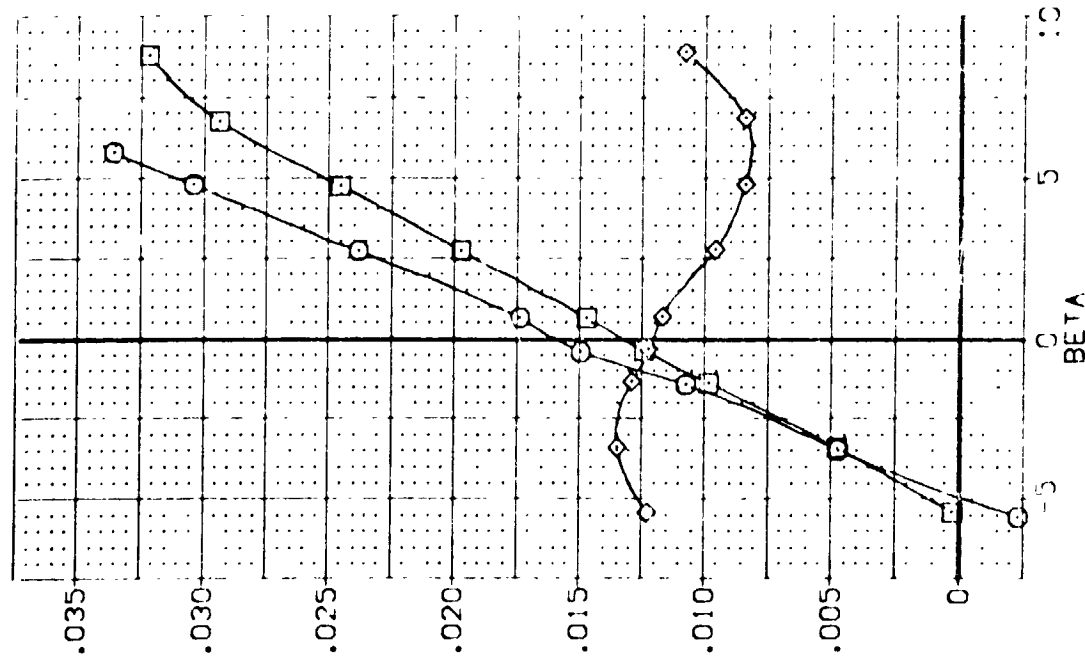
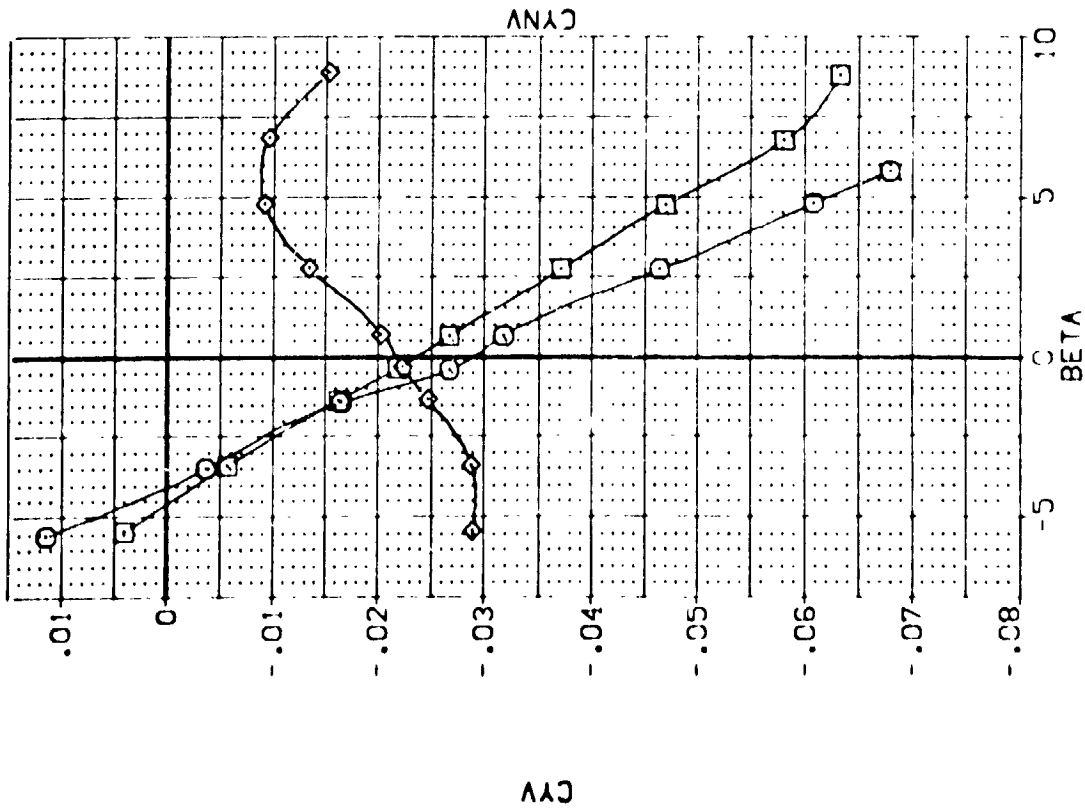


FIG. 39 VERTICAL TAIL LOADS VERSUS SIDESLIP, SPEEDBRAKE = 55 DEGREES

(B)MACH = 2.00



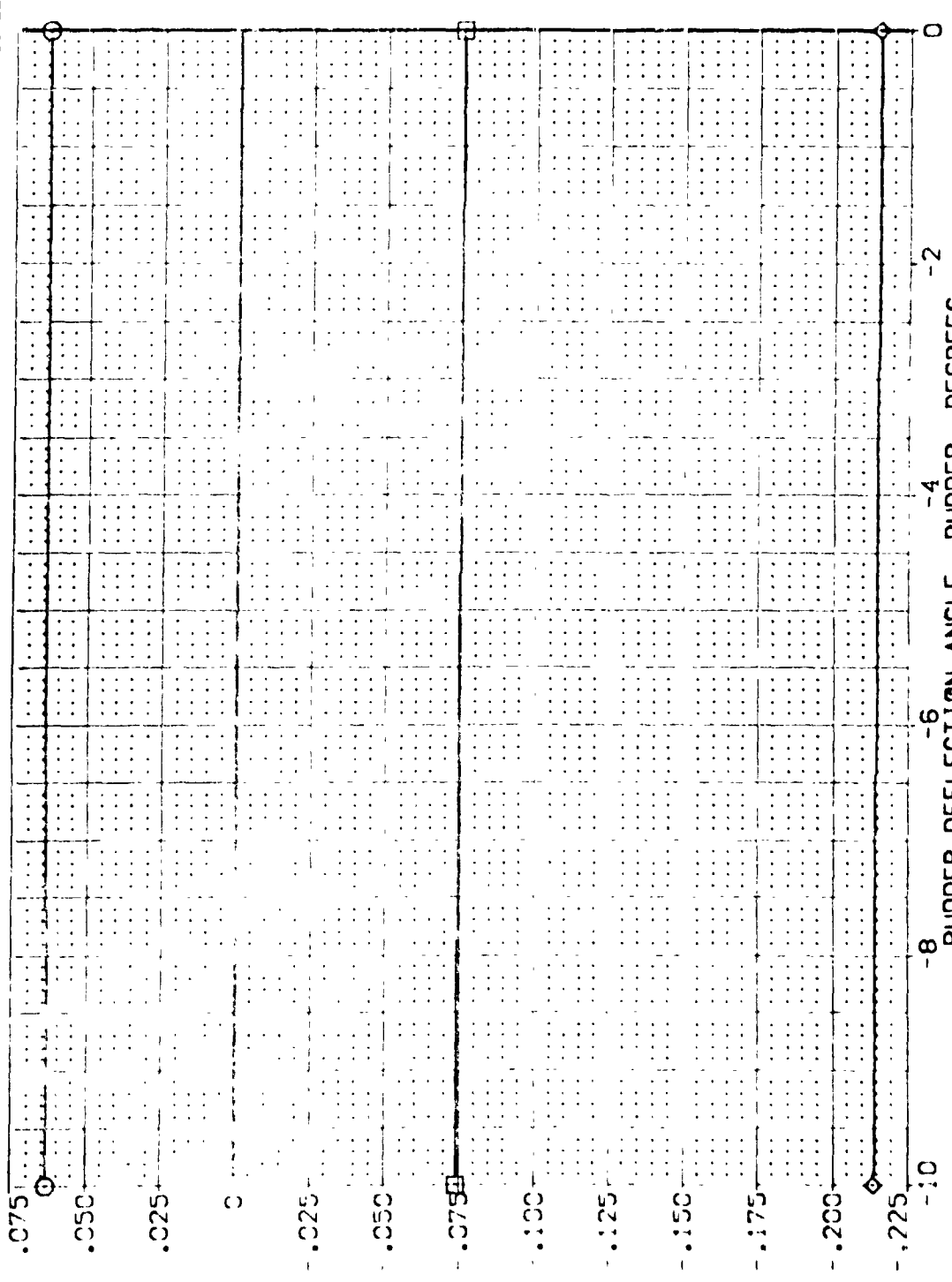
SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 1.600
 ELEVON .000
 80FLAP -11.700
 ELEV-L .000

BETA .000
 AILRON .000
 SPOBRK 25.000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, CM1

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL
 ○ □ ◇

ALPHA .000
 10.000
 20.000

MACH
 ELEVON
 BOFLAP
 ELEV-L

PARAMETRIC VALUES
 2.000 BETA .000
 .000 AILRON .000
 -11.700 SPOBRK 25.000
 .000 ELEV-R .000

REFERENCE INFORMATION,
 SC.F.T.

SREF 2.4210
 LREF 14.2440
 BREF 28.3004
 XPRB 32.3010
 YPRB .0000
 ZPRB 11.2500
 SCALE .0300

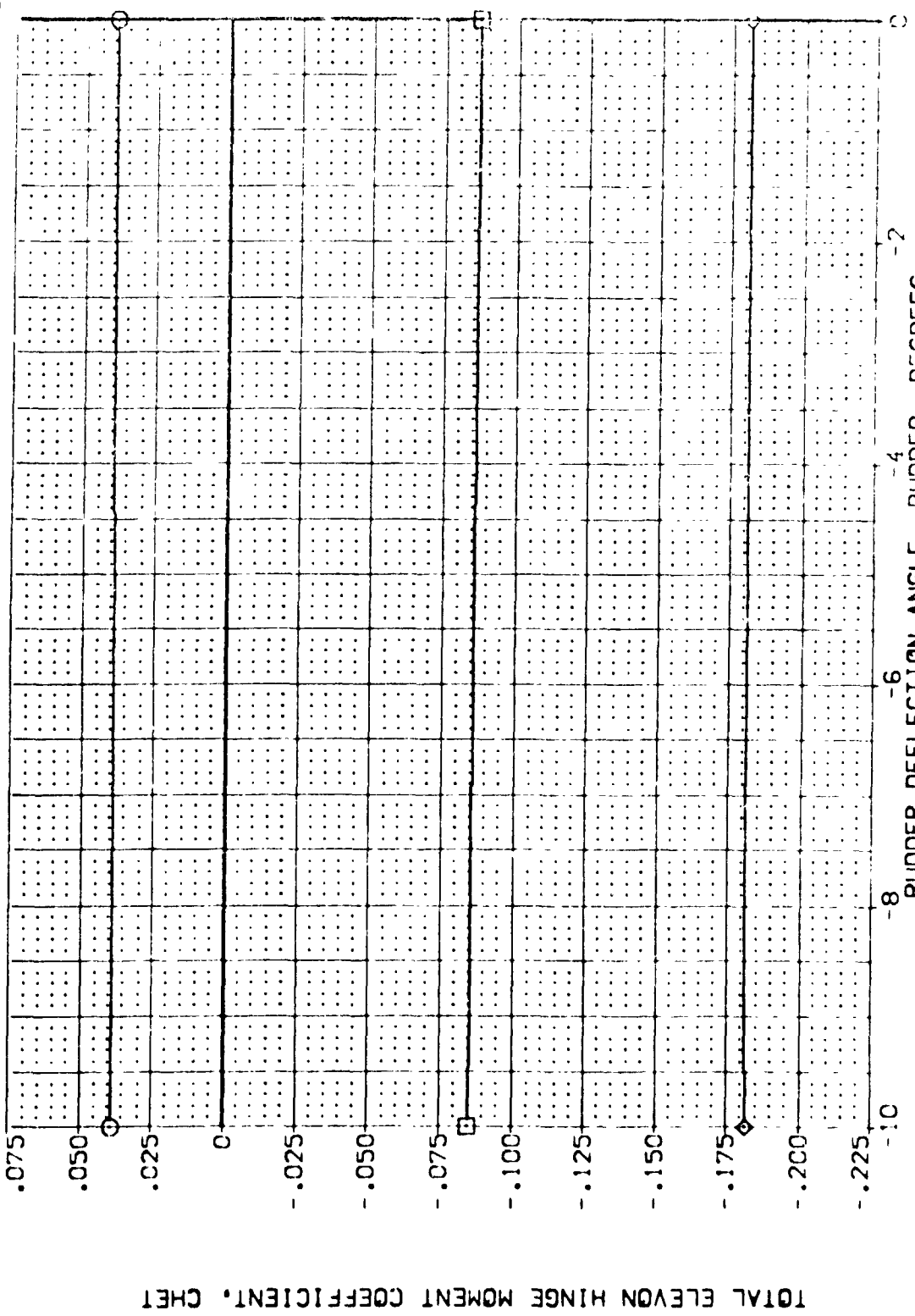


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 25 DEG



SYMBOL \diamond \square \circ

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 1.600
 ELEVON .000
 BOFLAP -11.700
 ELEV-L .000

BETA
 .000
 ALLRON
 SPOBRK 25.000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BRREF 28.1000
 XWRP 32.3010
 YWRP .0000
 ZWRP 11.2500
 SCALE 1.300

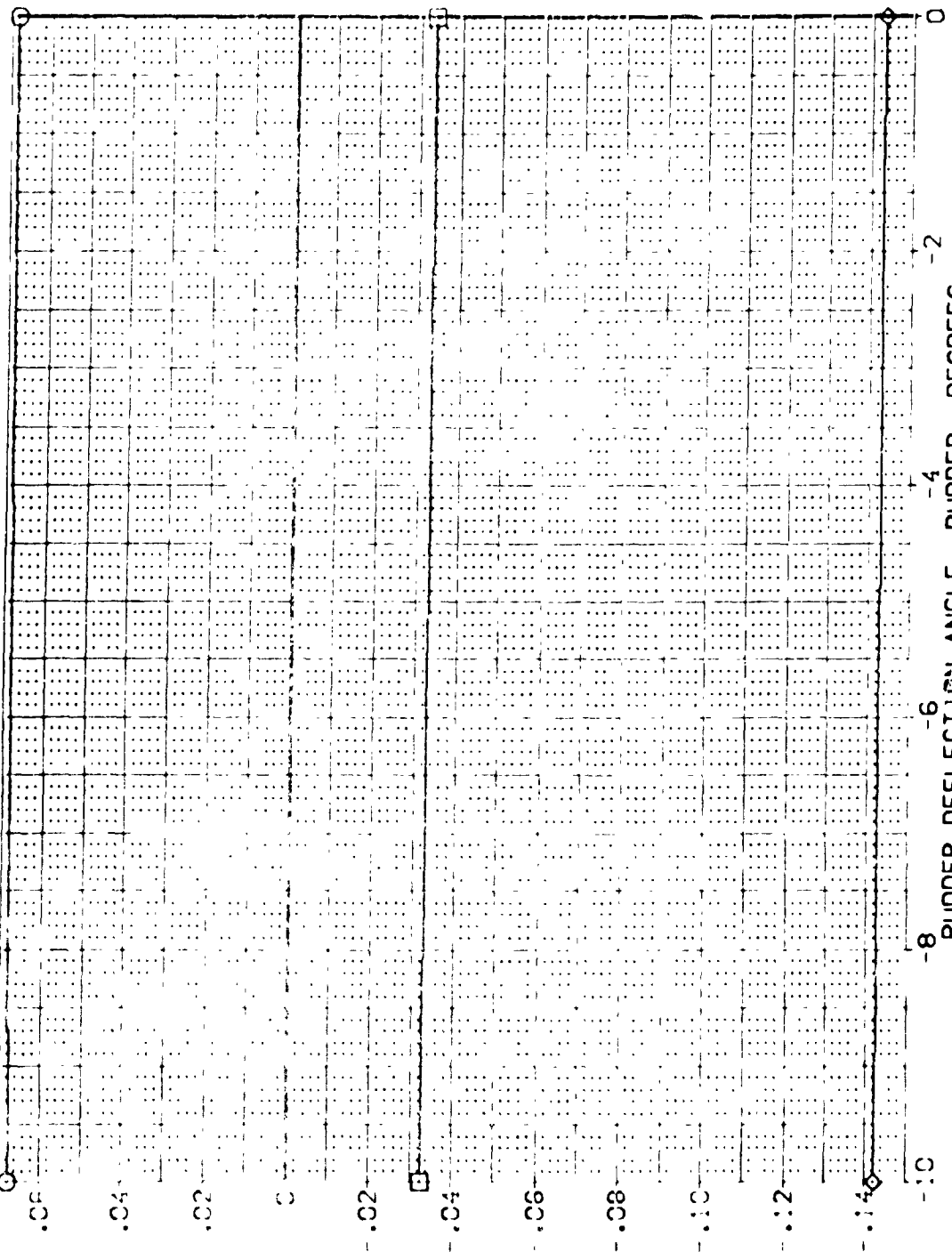


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL
 ○
 □
 ◇

ALPHA
 .000
 10.000
 20.000

MACH
 ELEVON
 BOFLAP
 ELEV-L

PARAMETRIC VALUES
 2.000 BETA
 .000 AILTRON
 -11.700 SPEEDBRK
 .000 ELEV-R

.000
 .000
 25.000
 .000

INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHE1

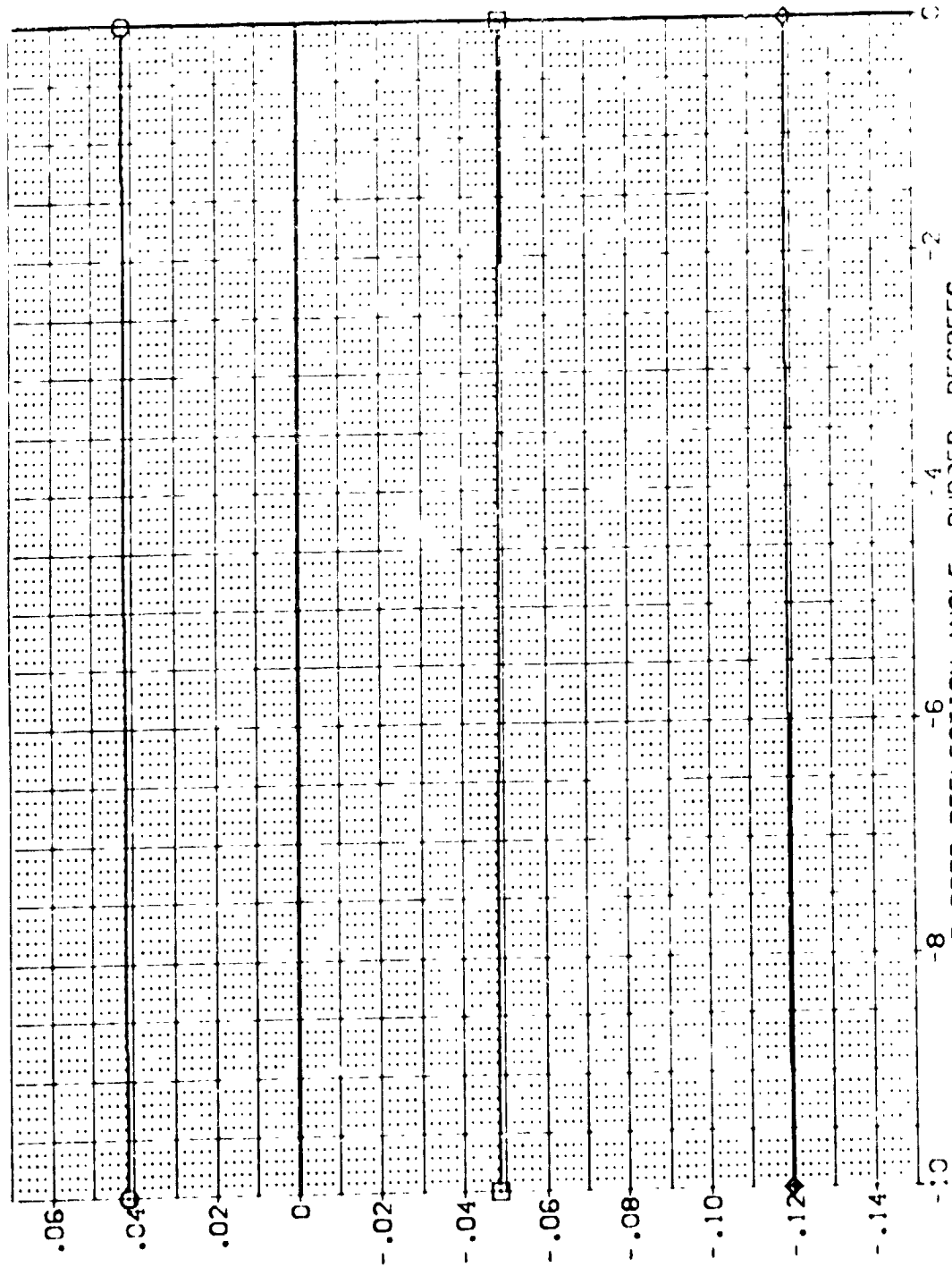


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 25 DEG



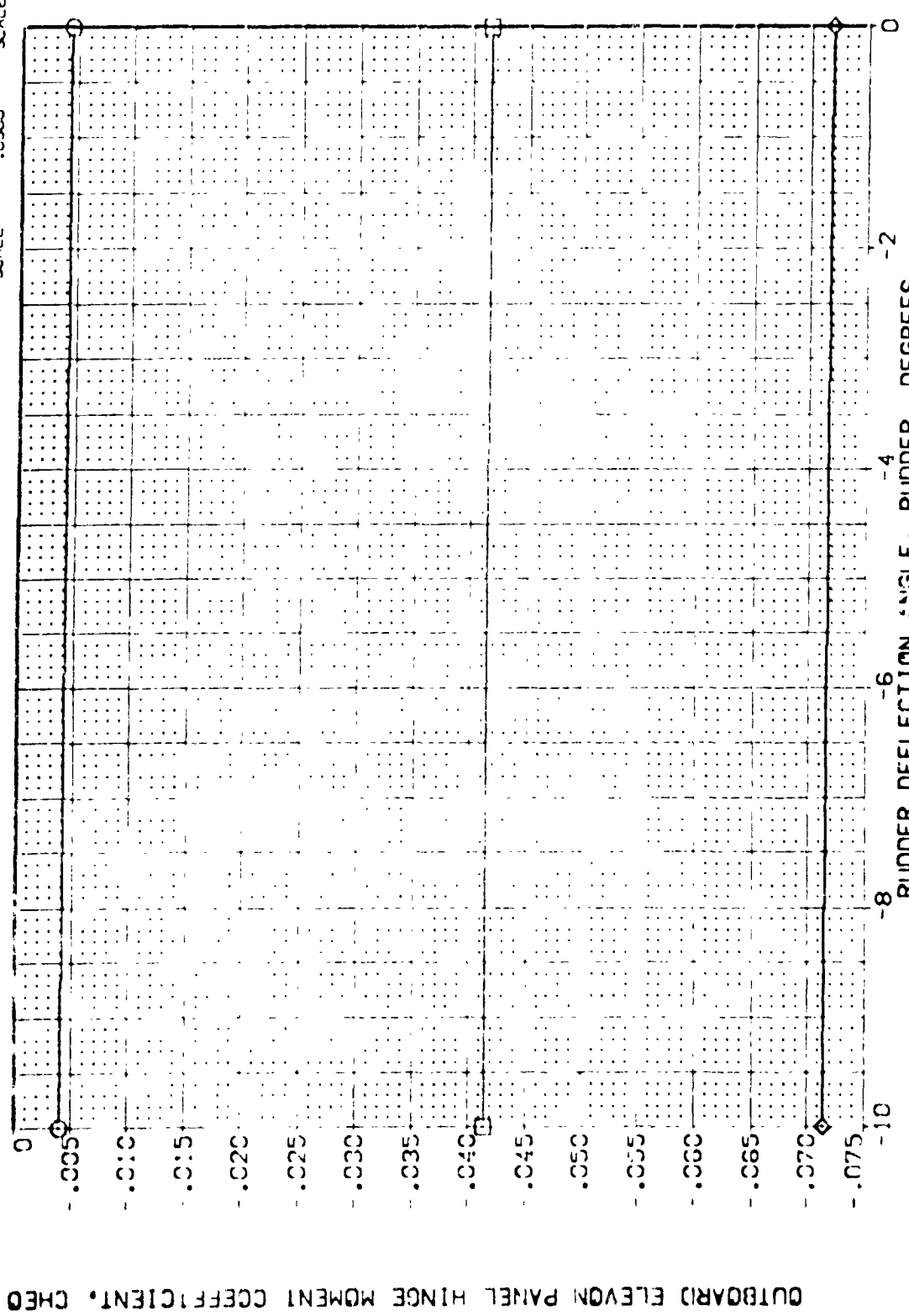
ARC OF '4' 3A538 B C M F W1 V NOM. RN/L (EEK035)

SYMBOL

ALPHA	.000	C	1.600	BETA	.000
10.000	ELEVON		.000	AIRBRN	.000
20.000	TOFLAP		-11.000	SPOBRK	20.000
	ELEV-L		.000	ELEV-R	.000

REFERENCE INFORMATION

SREF	2.4216	SQ.FT.
LREF	14.2440	
BREF	28.1004	
XMRP	32.3010	
YMRP	.0000	
ZMRP	11.2500	
SCALE	.0300	SCALE



OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HEO}

FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 25 DEG

SYMBOL
 ○
 ◇

ALPHA
 .000
 .000
 20.000

MACH
 ELEVON
 BOFLAP
 ELEV-L

PARAMETRIC VALUES
 2.000 BETA
 .000 ALL-ROD
 -11.700 SPEEDBRAK
 .000 ELEV-R

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 XREF 28.4880 IN.
 YREF 32.3850 IN.
 ZREF 11.7000 IN.
 SCALE 1:1000

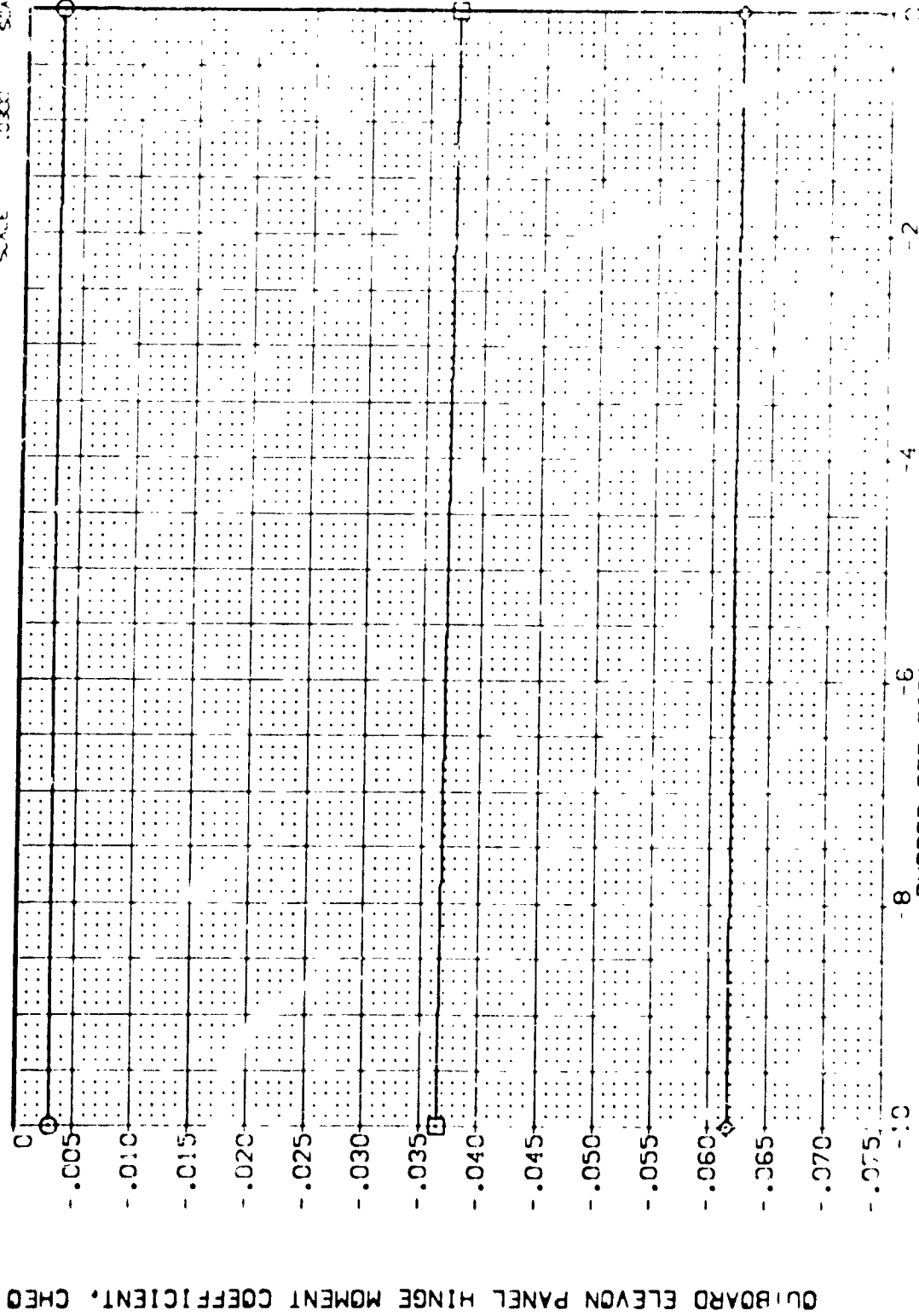


FIG. 40 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGE MOMENT, SPEEDBRAKE = 25 DEG



(EEKD35)

ARC 97 47 3A533 B C M F W1 V NOM. RN/L

SYMBOL

◇ PMA
◇ TACH
◇ ELEV-R
◇ BOFLAP
◇ ELEV-L

PARAMETRIC VALUES
◇ .000 BETA
◇ .000 AILRON
◇ 1.700 SPOBRK
◇ .000 ELEV-R
◇ .000 ELEV-L

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440 IN.
BREF 28.1004 IN.
XMRP 32.3010 IN.
YMRP .0000 IN.
ZMRP 11.2500 IN.
SCALE .0300



FIG. 41 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT, SPEEDBRAKE = 25 DEG

(EEK035)

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

SYMBOL
□
◇

ALPHA	.000	MACH	2.000	BETA	.000
	10.000	ELEVON	.000	AILRON	.000
	20.000	BOFLAP	-11.700	SPOBRK	26.000
		ELEV-L	.000	ELEV-R	.000

SREF	2.4210	REFERENCE INFORMATION	50. FT.
LREF	14.2440		N.
BREF	28.1004		N.
YMRP	32.3010		N.
ZMRP	.0000		N.
YPRP	11.2500		N.
SCALE	.0300		SCALE

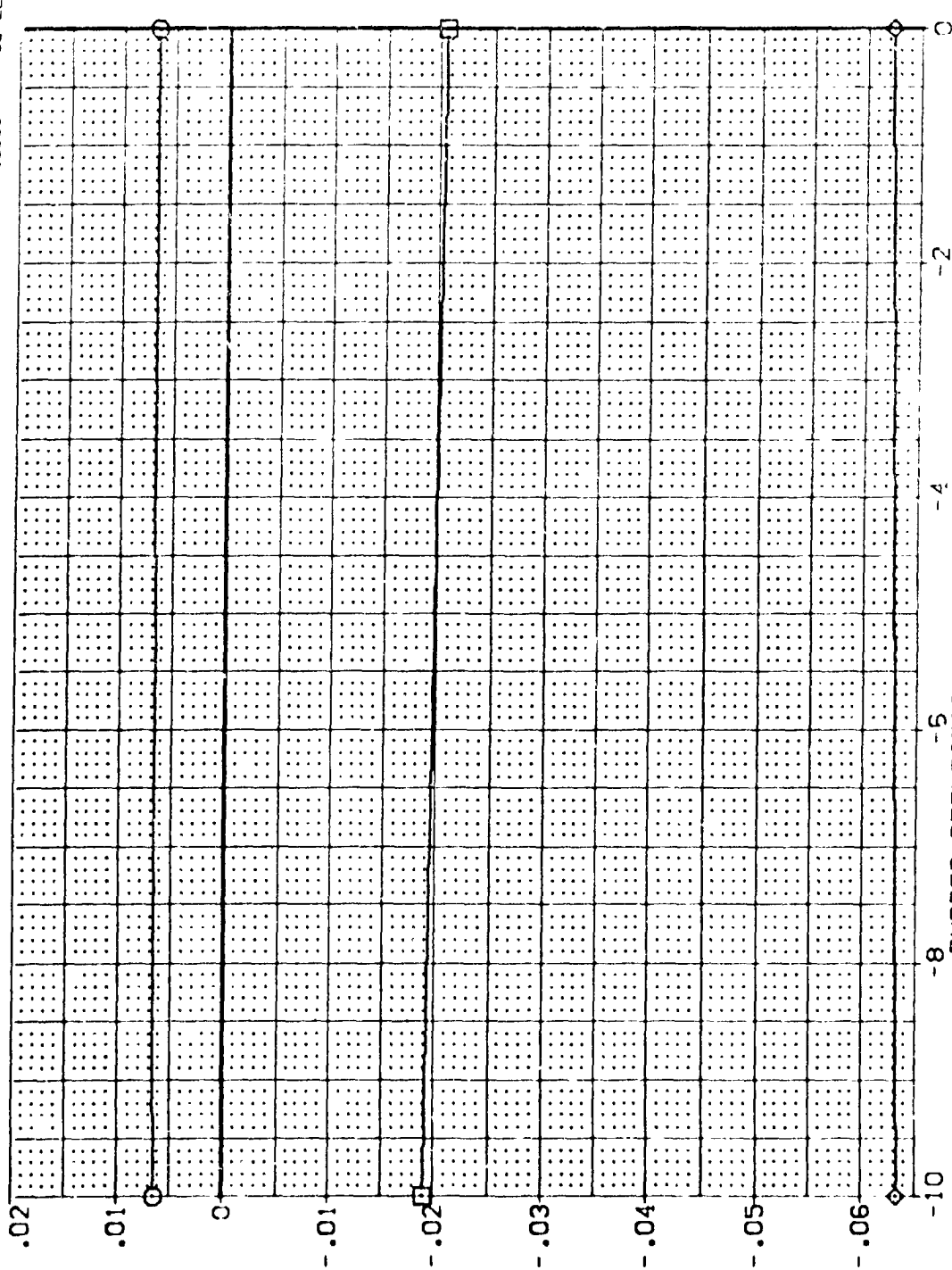


FIG. 41 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMENT, SPEEDBRAKE = 25 DEG



ARC 97-747 CAS33 B C M F W: V NCM, RN/L (EEK002)

ALPHA	.000	MACH	.000	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
0	10.000	ELEVON	-10.000	BETA	ATLRON	2.4210
0	20.000	SPEED	55.000	BOFAP	ATLRON	14.2440
		ELEV	-10.000	RUDER	5.000	SCAL
				ELEV-R	15.000	
					EEK005	
					EEK004	
					SCALE	
					SCALE	

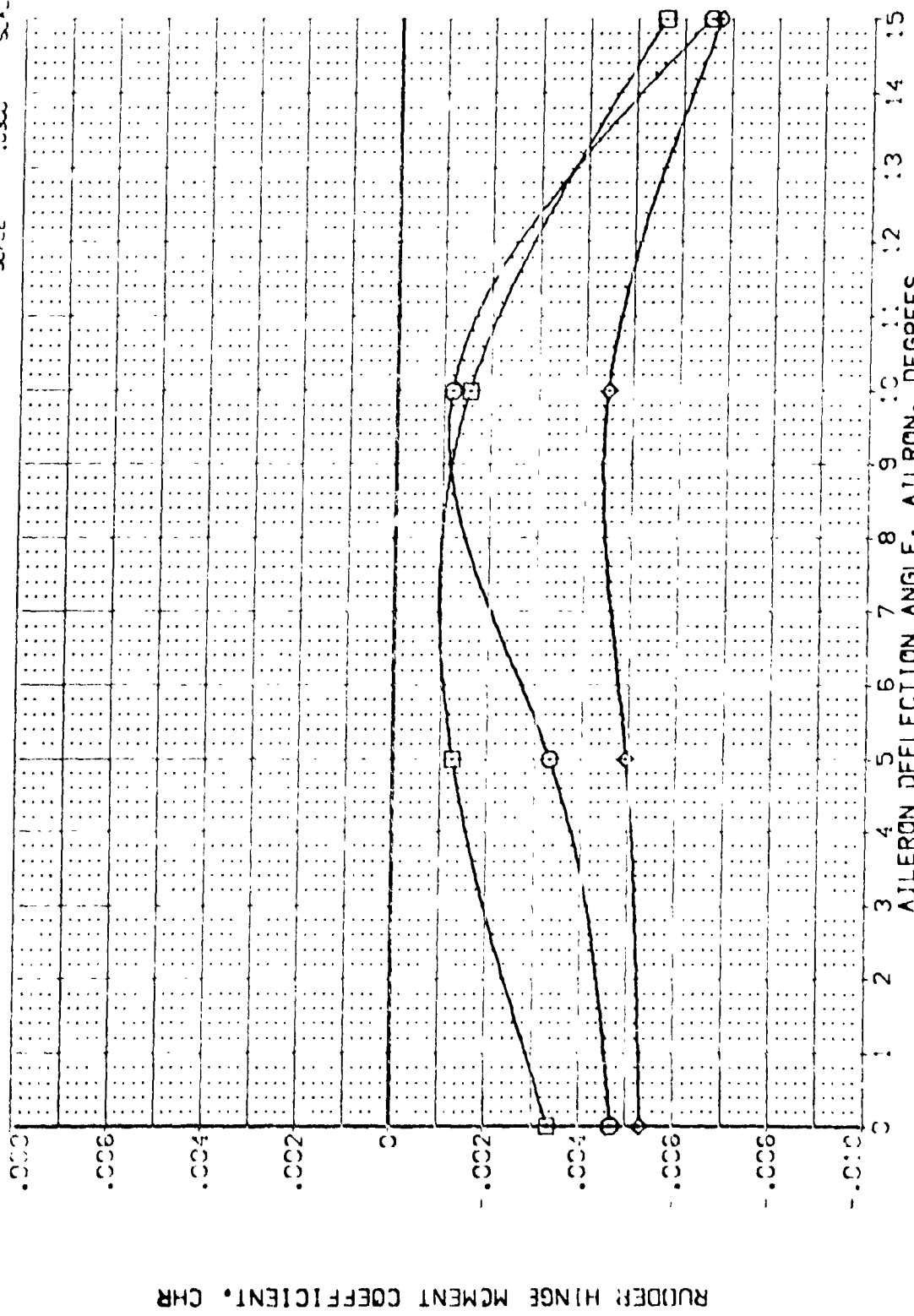


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

MACH
 2.000
 ELEVON
 -10.000
 SPOBRK
 55.000
 ELEV-L
 -10.000

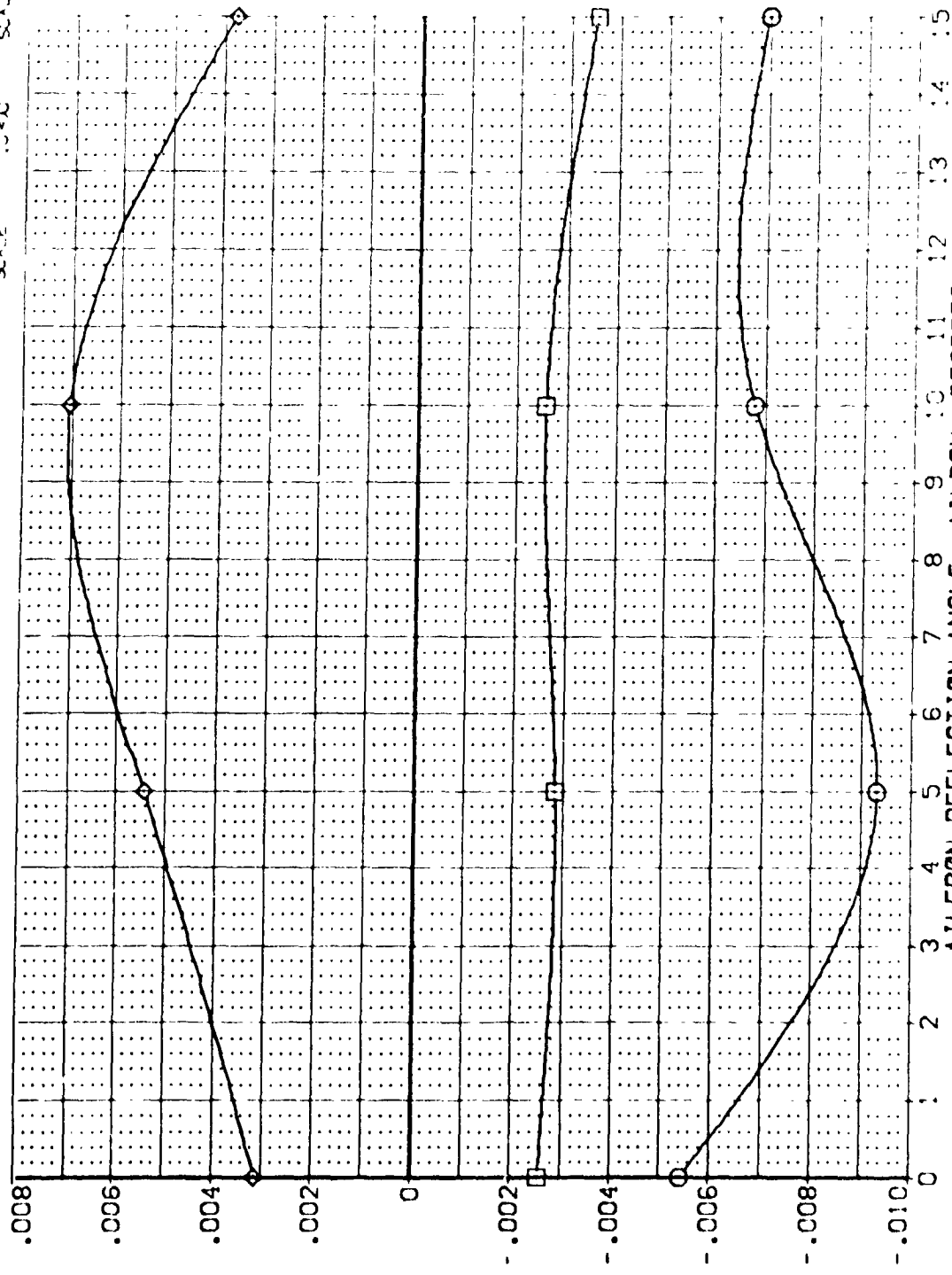
PARAMETRIC VALUES
 BETA
 .000
 BOFLAP
 -11.700
 RUDDER
 .000
 ELEV-R
 -10.000

DATA SOURCE
 AILERON
 .000
 10.000

DATASET
 EEK002
 EEK002
 EEK002

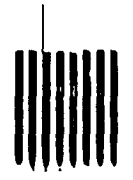
REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.2440
 28.1004
 32.3010
 0000
 0000
 11.2000
 0.0000

SCALE
 2.000
 5.000
 15.000
 2.000
 10.000



RUDDER HINGE MOMENT COEFFICIENT, CHR

FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT



ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
.000	MACH 1.600	.000 DATASET AILRON	SREF 2.4210
10.000	BETA -10.000	AILRON 5.000	LREF 14.2440
20.000	BOFLAP -10.000	EEM002 10.000	BREF 28.1004
	SPOBRK 55.000	EEM014 15.000	ZREF 32.3010
	RUDDER -10.000		ZMPP .0000
	ELEV-R -10.000		ZMPP SCALE 11.2500
			SCALE .0300

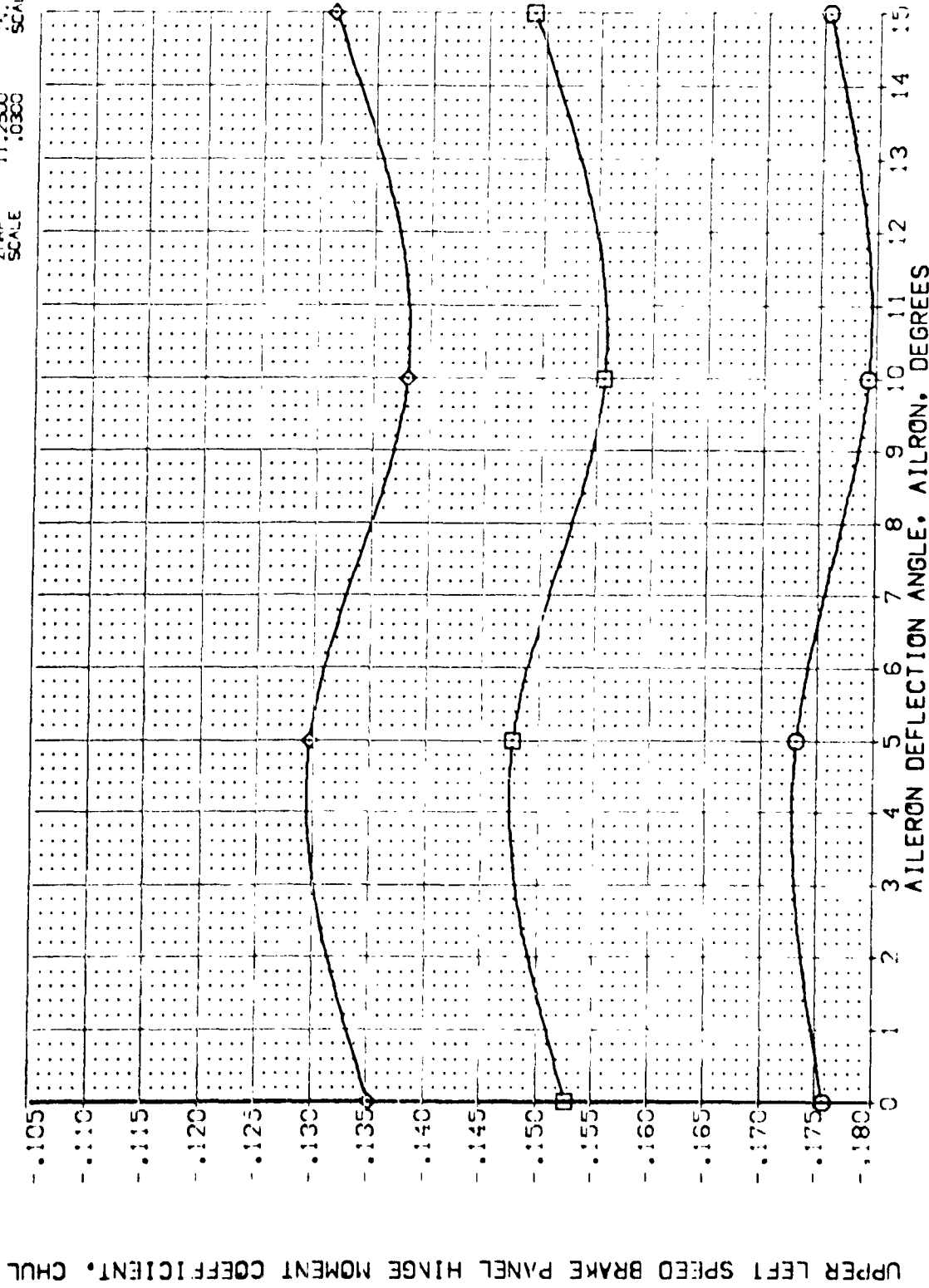


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL

ALPHA
 .000
 10.000
 20.000

MACH
 ELEVON
 SPOBRK
 ELEV-L

PARAMETRIC VALUES
 2.000 BETA
 -10.000 BOFLAP
 55.000 RUDDER
 -10.000 ELEV-R

.000 DATASET
 -11.700 EEK002
 .000 EEK021

DATA SOURCE
 AILRON
 10.000

AILRON
 5.000
 15.000

SREF
 LREF
 BRFP
 XMRP
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 2.4210 SQ.FT.
 14.244
 28.1004
 37.3010
 .0000
 11.7500
 .0300

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

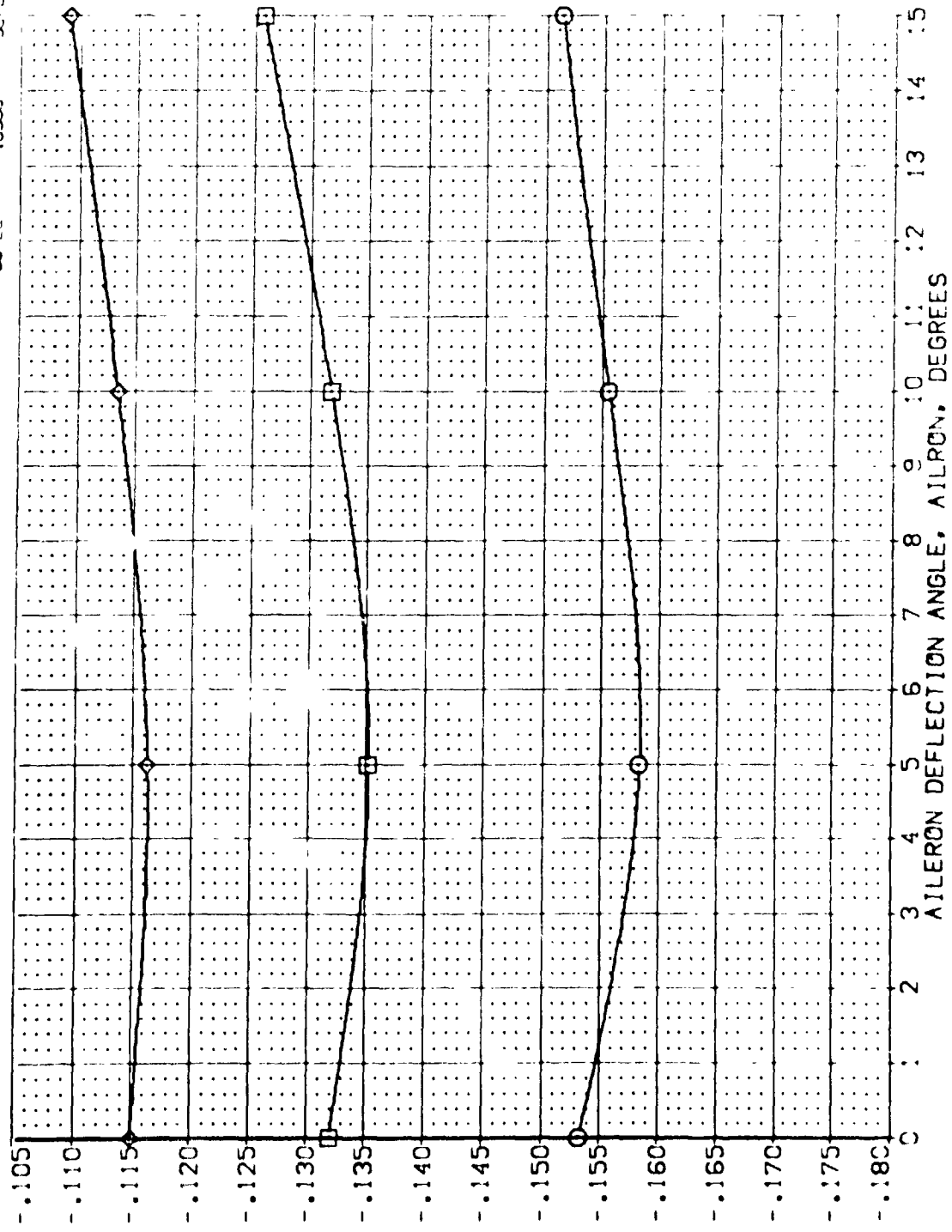


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT



ARC 97-747 CAS3B B C M F W I V NOM. RN/L (EKK002)

SYMBOL
○
◇
□

ALPHA	.000	MACH	1.600	PARAMETRIC VALUES	DATA SOURCE	DATASET	AILRON	AILRON	SRFF	REFERENCE INFORMATION	SCALE
10.000	ELEVON	-10.000	BETA	.000	EEF002	EKK005	.000	5.000	LRFF	2.4210	SC.F.T.
20.000	SPODBK	55.000	RUDDER	-11.700	EKK021	EKK044	10.000	15.000	BRFF	14.2440	IN
	ELEV-L	-10.000	ELEV-R	-10.000					YPRP	28.1004	IN
									ZPRP	32.3010	IN
									SCALE	.0000	IN
										11.2500	SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

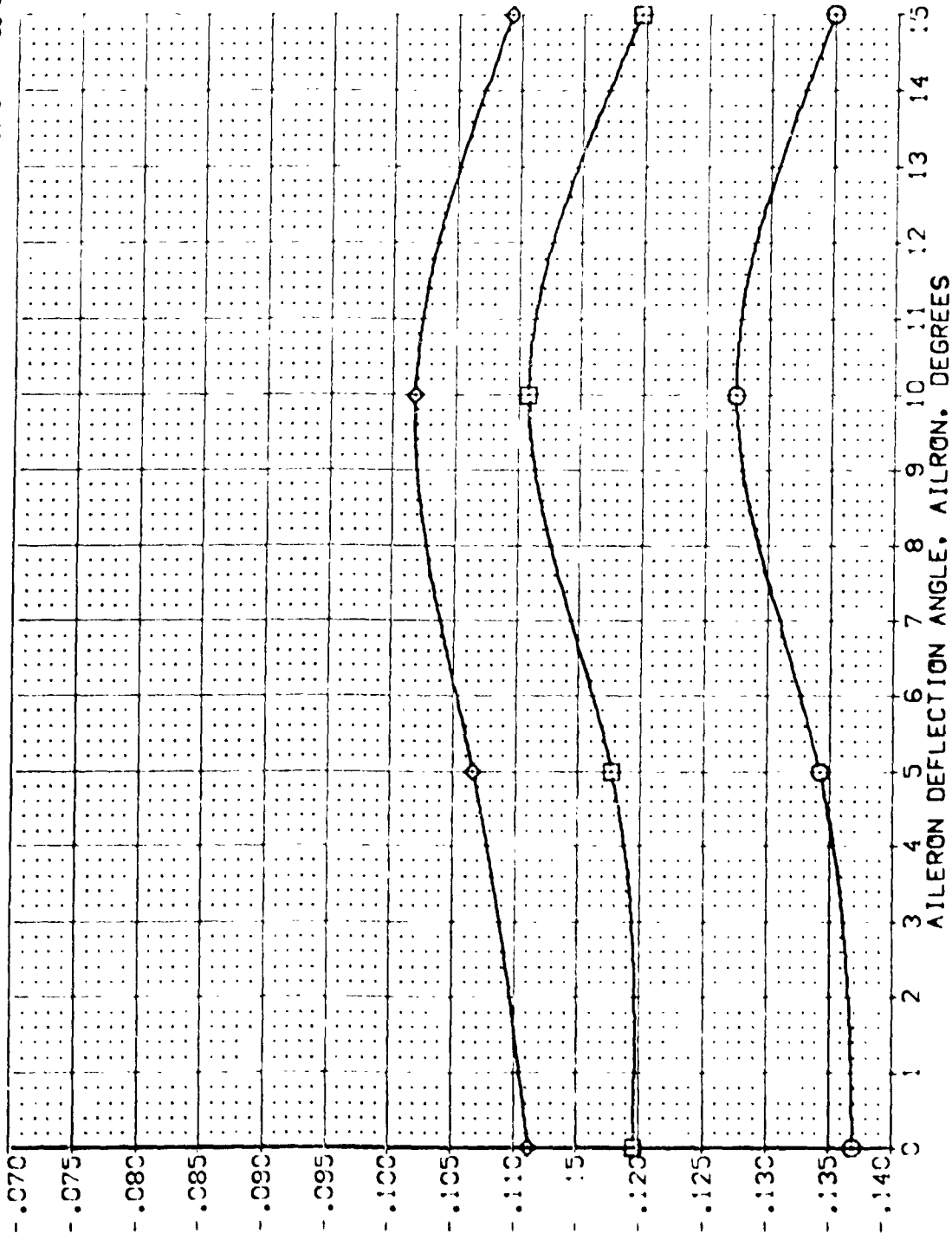


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGE MOMENT

SYMBOL

ALPHA
.000
10.000
20.000MACH
ELEVON
SPOBRK
ELEV-LPARAMETRIC VALUES
2.000 BETA
-10.000 BDFLAP
55.000 RUDDER
-10.000 ELEV-RDATA SOURCE
AILERON
EELK002
EELK001
EELK002DATASET
EEK005
EEK044AILRON
5.000
15.000SREF
LREF
BREF
XMPD
YMPD
ZMPD
SCALEREFERENCE INFORMATION
2.4210 SQ.FT.
14.2440
28.1004
32.3010
11.2500
11.2500
11.2500
SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

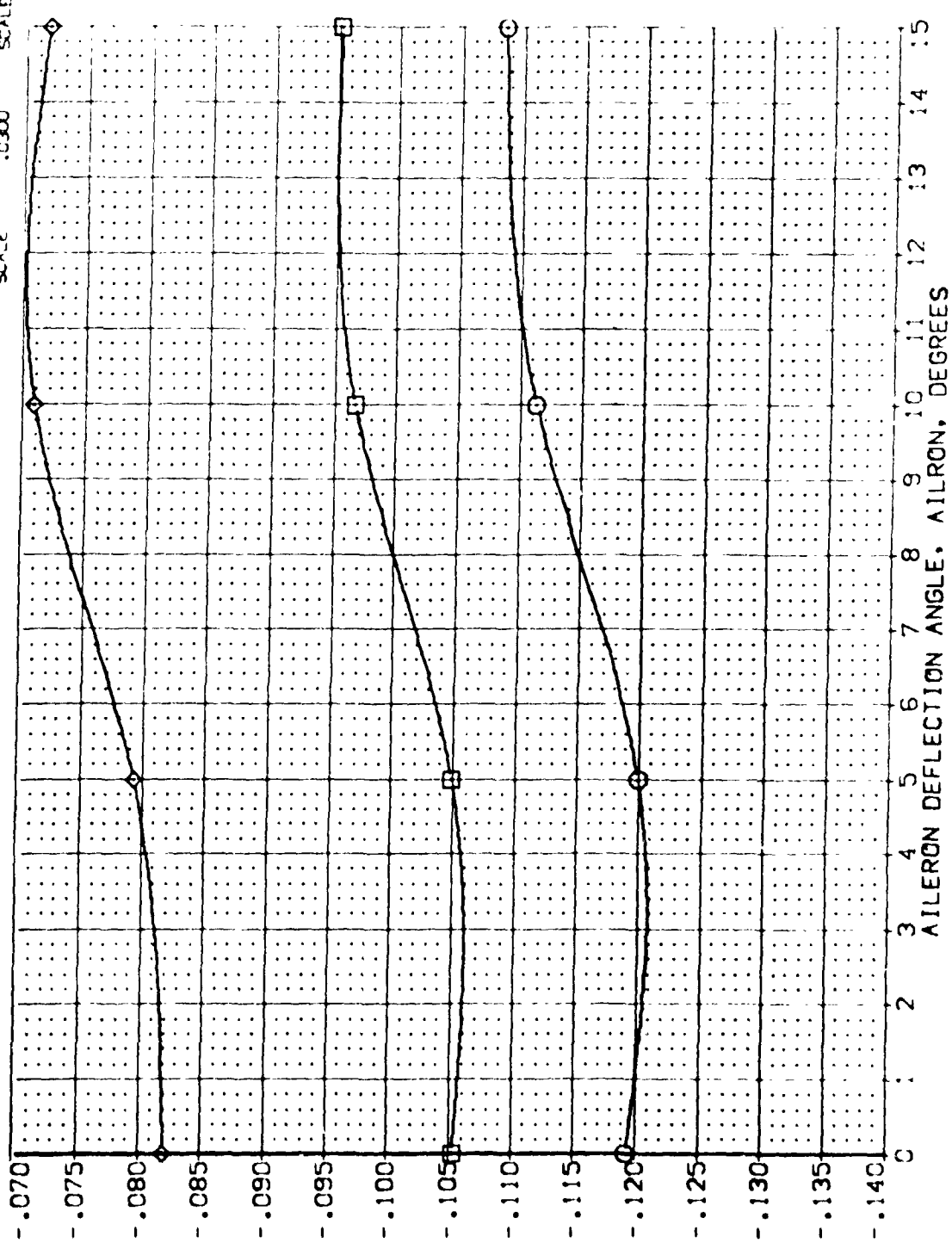


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

ALP-14	PARAMETRIC VALUE	DATA SOURCE	REFERENCE INFORMATION
.000	MACH	.000	2.4210
10.000	ELEVON	-11.700	14.2440
20.000	PROBRN	.000	28.1004
	ELEV-L	-10.000	32.3010
	BETA	10.000	0.0000
	BDELA	10.000	11.2500
	RUDDER	10.000	.0300
	ELEV-R	10.000	
		SCALE	SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

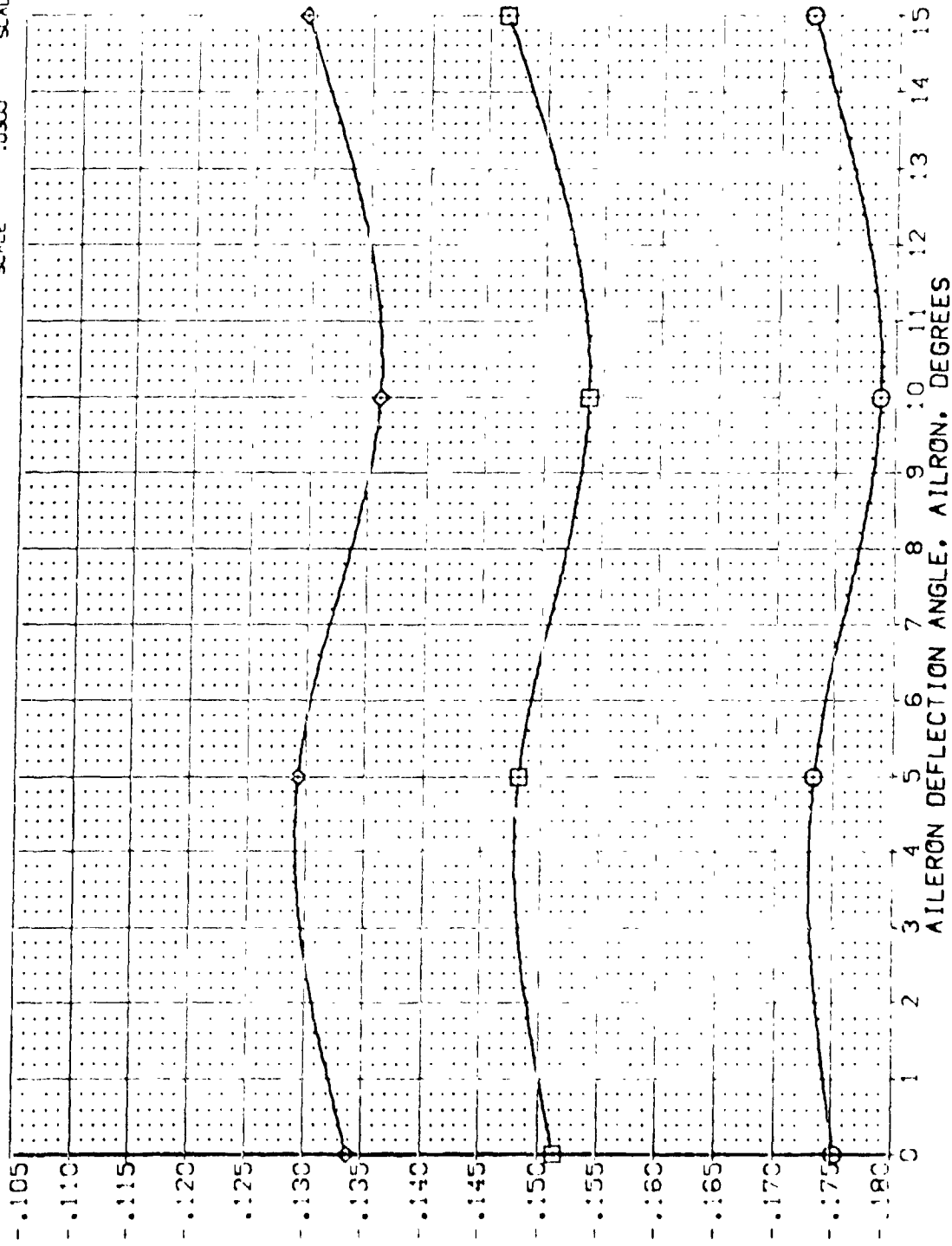


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL
 ○ □ ◇

ALPHA	.000	MACH	2.000	PARAMETRIC VALUES	.000	DATASET	AILRON	DATA SOURCE	AILRON	AILRON	5.000	REF. INFO	2.4210
	10.000	ELEVON	-10.000	BETA	-11.700	EEK002	.000	AILRON	10.000	5.000	15.000	LRF	14.2410
	20.000	SPOBRK	55.000	RUDDER	.000	EEK021	10.000	EEK05	10.000	15.000	32.1004	BRF	28.1004
		ELEV-L	-10.000	ELEV-R	-10.000			EEK04				YPRP	32.3010
												ZMRK	11.0000
												SCALE	10.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

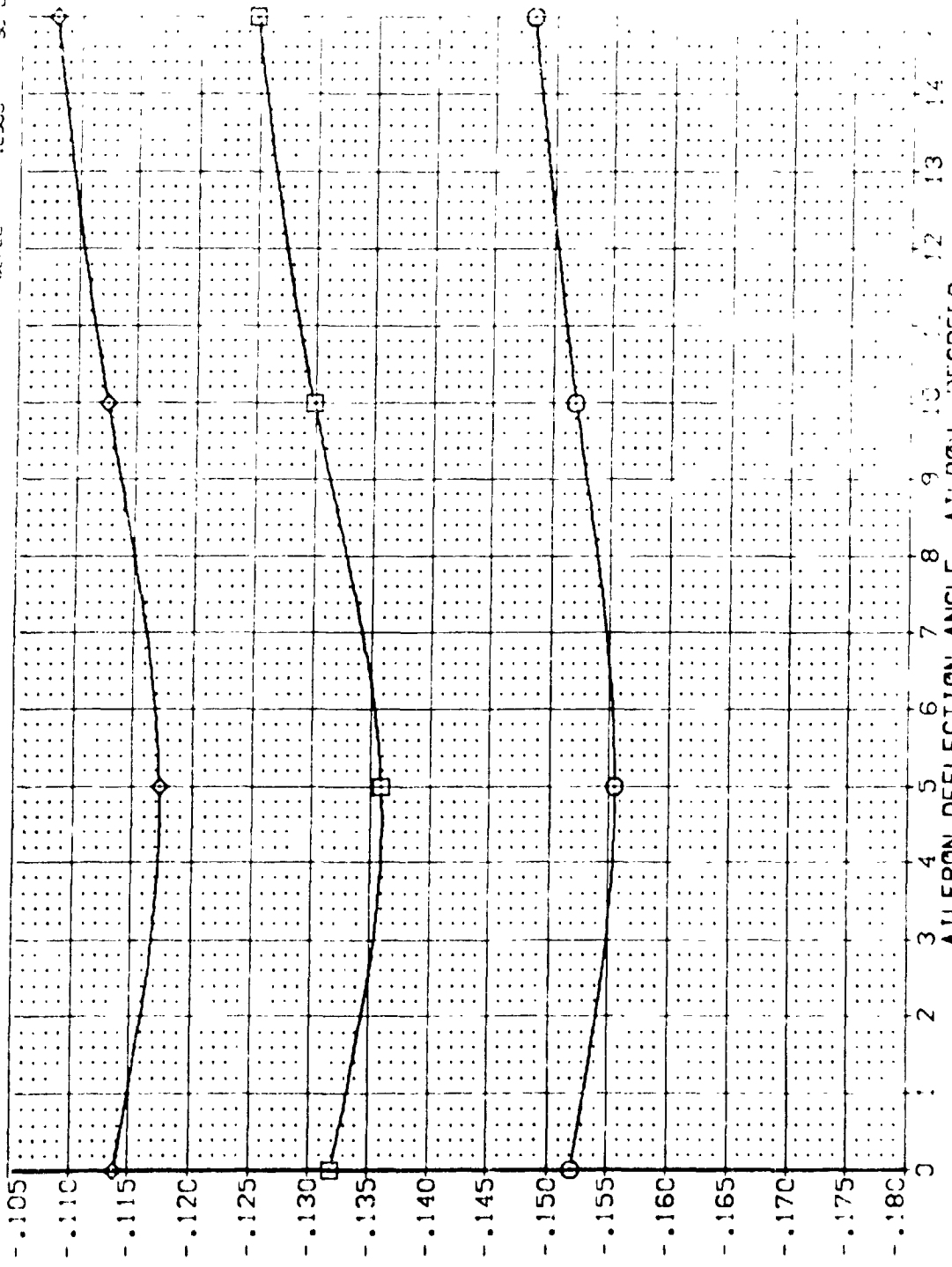


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT



ALPHA	MACH	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
.000	1.600	BETA	.000	AI LRON	SREF	SO. FT.	
10.000	-10.000	BOFLAP	-11.700	EEK002	LR REF	IN.	
20.000	55.000	RUDDER	.000	EEK021	BR EF	IN.	
	-10.000	ELEV-R	-10.000		YMRP	IN.	
					ZMRP	IN.	
					SCALE	IN.	SCALE

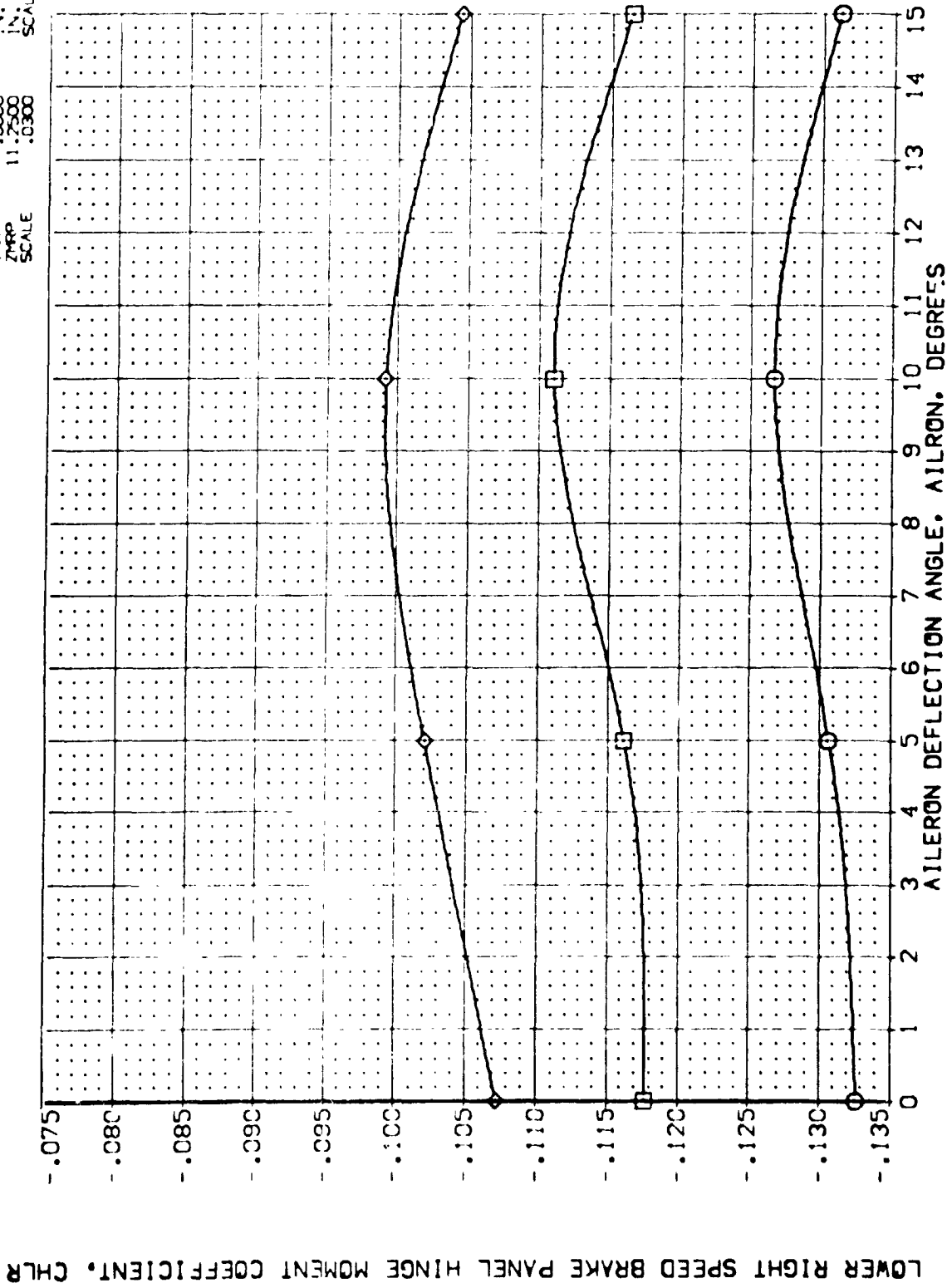


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT

SYMBOL ALPHA MACH PARAMETRIC VALUES DATA SOURCE REFERENCE INFORMATION

◇	.000	2.000	BETA	.000	EEK002	EEK005	AILERON	SREF	2.4210
□	10.000	-10.000	BDFLAP	-11.700	EEK002	EEK014	AILRON	LREF	14.2440
◇	20.000	55.000	RUDDER	.000	EEK021			BREF	28.1004
		-10.000	ELEV-R	-10.000				XTRD	32.3010
			ELEV-L					YTRD	.0000
								ZTRD	11.2500
								SCALE	.0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

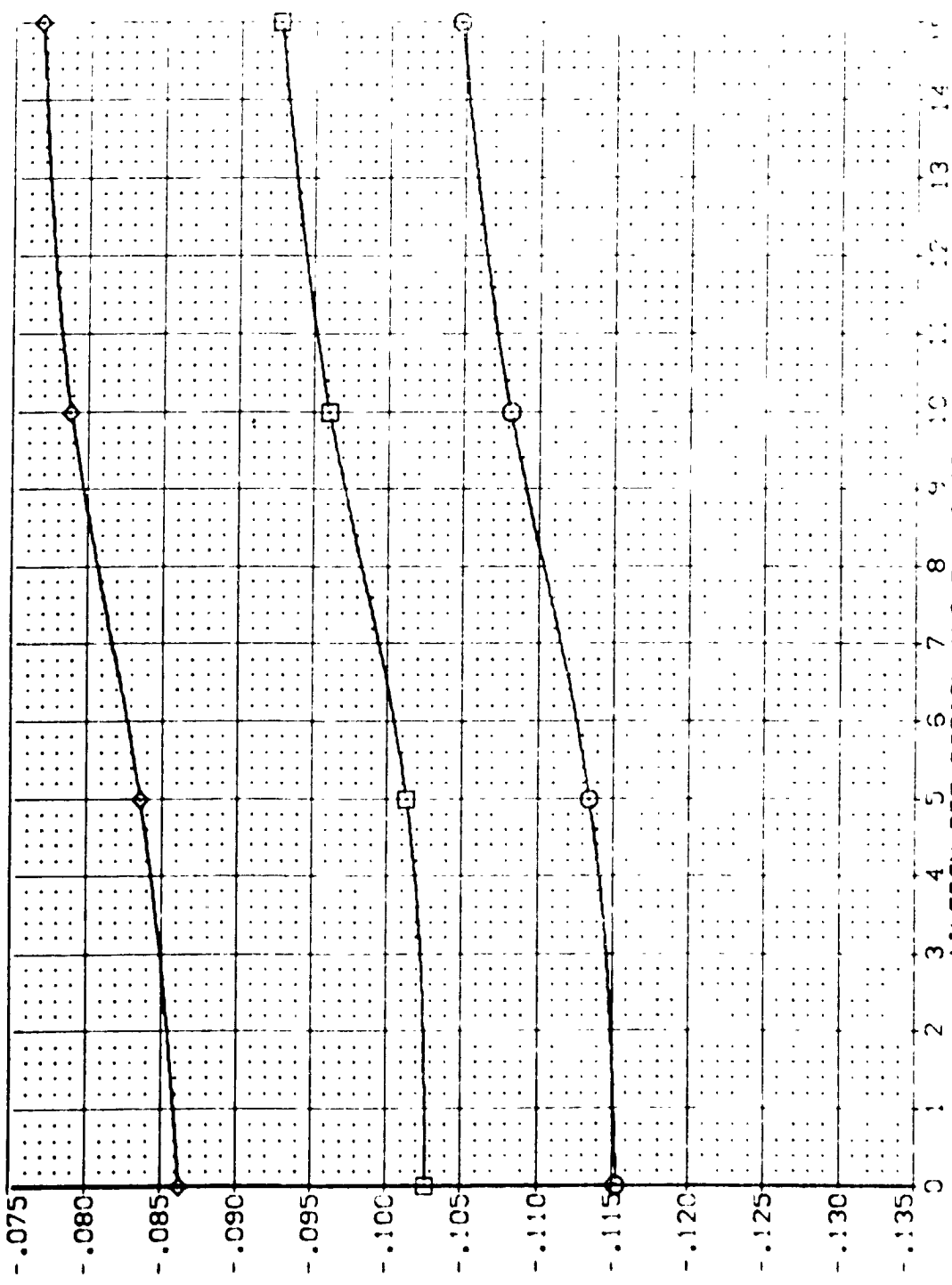


FIG. 42 EFFECT OF AILERON DEFLECTION ON RUDDER HINGEMENT



ARC 97-747 OAS3B B C M F W I V NOM. RN/L (EEK002)

ALPHA		PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
0.000	MACH	1.600	BETA	.000	DATASET	AILRON	SREF	2.4210	SC.FT.		
10.000	ELEVON	-1.000	BD/LAP	-11.700	EEK002	.000	LREF	14.2440	N.		
20.000	SPOBRK	55.000	RUDDER	.000	EEK021	10.000	BREF	28.1004	N.		
	ELEV-L	-10.000	ELEV-R	-10.000			YARRP	32.3010	N.		
							ZARRP	.0000	N.		
							SCALE	11.2500	N.		
								.0300	SCALE		

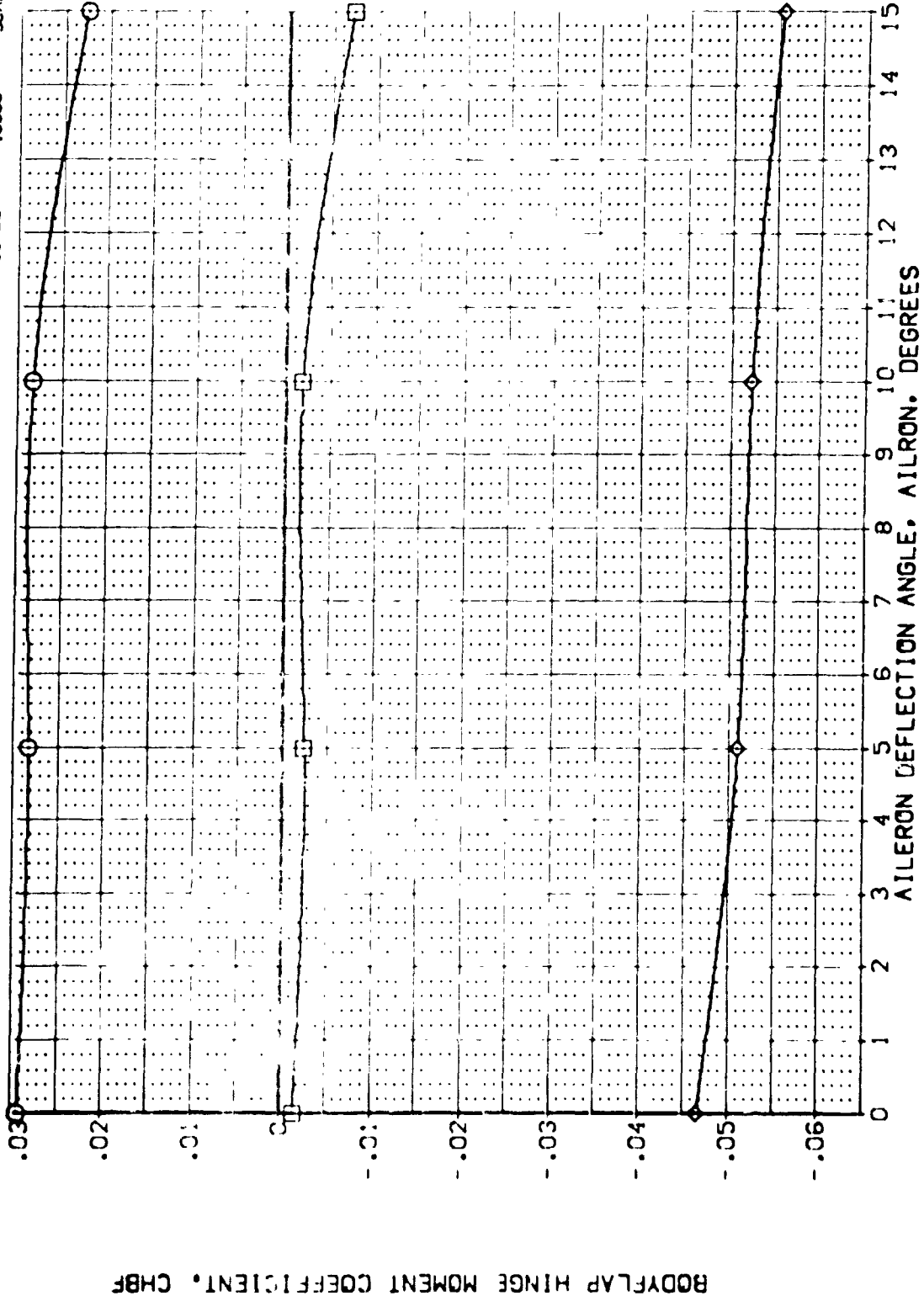
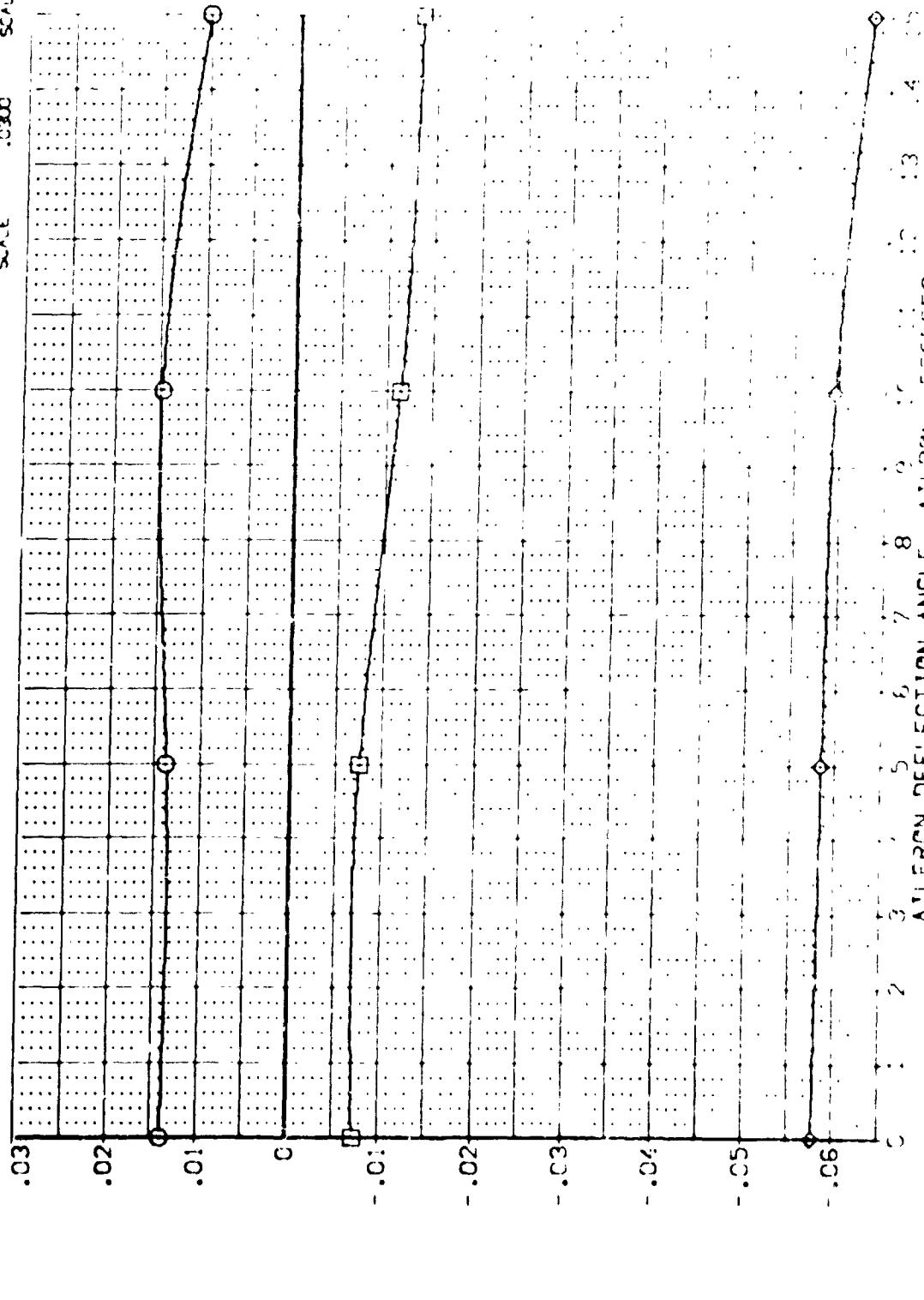


FIG. 4.3 EFFECT OF AILERON DEFLECTION ON BODYFLAP HINGEMOMENT

ALPHA	.000	PARAMETRIC VALUES	.000	DATASET	AILRON	DATA SOURCE	AILRON	ALLRON	5.000	REF	2.4210	SCALE
10.000	MACH	BETA	-11.700	EEK002	10.000	AILRON	10.000	5.000	REF	1.2440	SCALE	11.2500
20.000	ELEVON	BOFLAP	.000	EEK001	10.000	AILRON	10.000	15.000	REF	28.1004	SCALE	11.2500
	SPOBRK	RUDDER	.000						REF	32.3010	SCALE	11.2500
	ELEV-L	ELEV-R	-10.000						REF	0.0000	SCALE	11.2500
									REF	0.0000	SCALE	11.2500
									REF	0.0000	SCALE	11.2500



BODYFLAP HINGE MOMENT COEFFICIENT, CHBF

FIG. 43 EFFECT OF AILERON DEFLECTION ON BODYFLAP HINGEMENT



ALPHA	0.000	MACH	1.600	BETA	.000	DATA SOURCE	ELEV-L	.000	DATA SET	EEK003	ELEV-L	15.000	SREF	2.4210	SC.FT.
10.000	ELEVON	7.500	AILERON	-7.500	EEK006				REF	14.2440			LREF	28.1004	
20.000	BOFLAP	-11.700	SPOBRK	55.000					XMRP	32.3010			YMRP	.0000	
	RUDDER	.000	ELEV-R	15.000					ZMRP	11.2500			SCALE	.0300	

SYMBOL
 ○
 □
 ◇

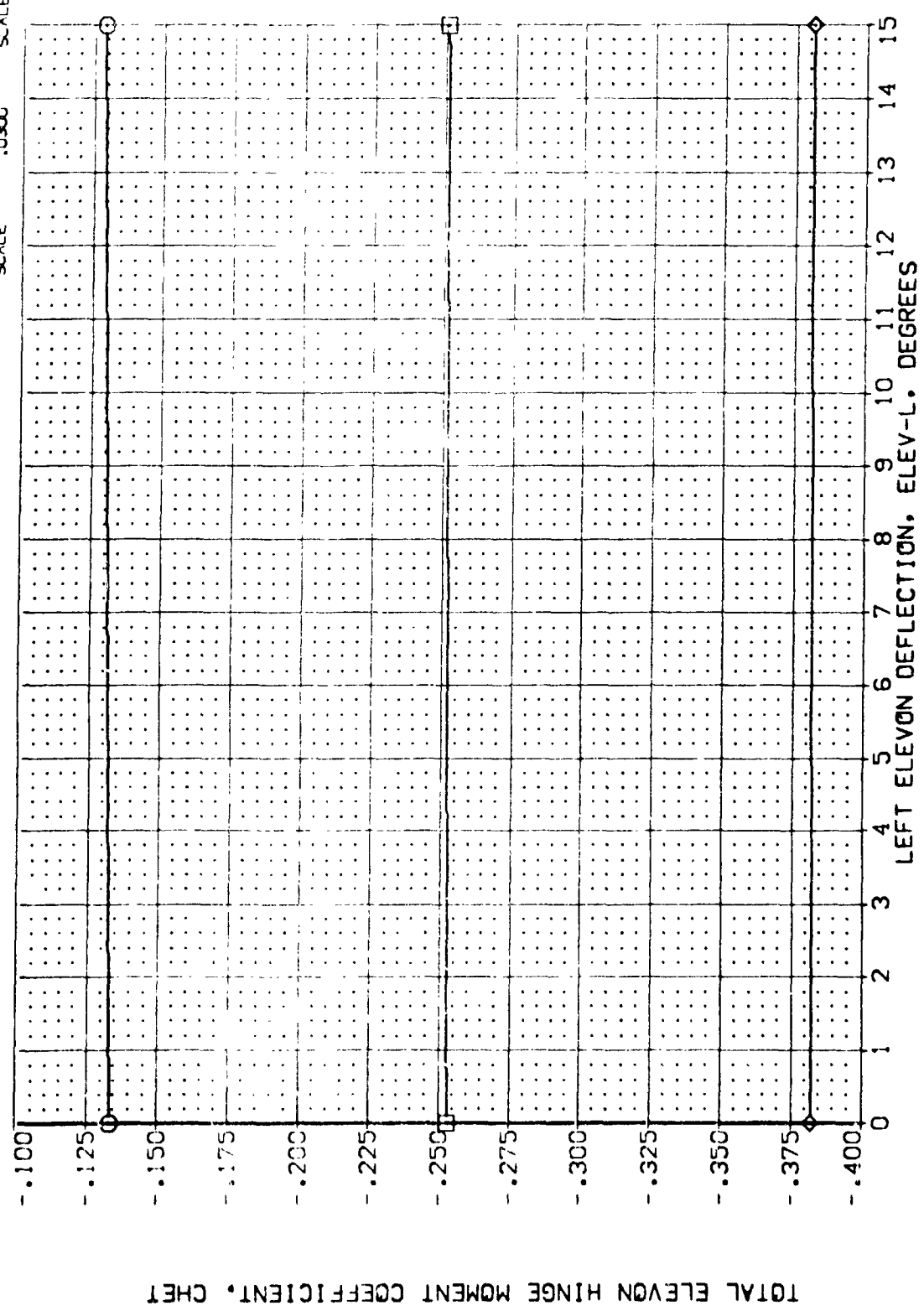


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

ARC 97-747 0A53B B C M F W1 V NOM. RN/L (EEK006)

SYMBOL

ALPHA
 .000
 10.000
 20.000

MACH
 ELEVON
 BOFLAP
 RUDDER

PARAMETRIC VALUES

BETA
 AILERON
 SPOBRK
 ELEV-R

DATA SOURCE

ELEV-L
 .000
 DATASET
 EEK006

ELEV-L
 15.000
 DATASET
 EEK003

REFERENCE INFORMATION
 SQ. FT.
 2.4210
 IN.
 14.2440
 IN.
 28.1004
 IN.
 32.3010
 IN.
 .0000
 IN.
 11.2500
 IN.
 .0300
 SCALE



TOTAL ELEVON HINGE MOMENT COEFFICIENT, C_{HET}

FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

SYMBOL	ALPHA	MACH	ELEVON	BDJAP	RJDER	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
()	.000	.800	BETA	.000	EEK006	ELEV-L	SPKE	2.4210
()	10.000	7.500	ALPHA	-7.500	EEK006	ELEV-L	SEE	14.2440
()	20.000	-11.700	SPDRM	56.000	EEK006	ELEV-L	SPKE	28.1004
		.000	ELEV-R	15.000	EEK006	ELEV-L	SPKE	37.3010
					EEK006	ELEV-L	SPKE	111.7500
					EEK006	ELEV-L	SPKE	15.3000

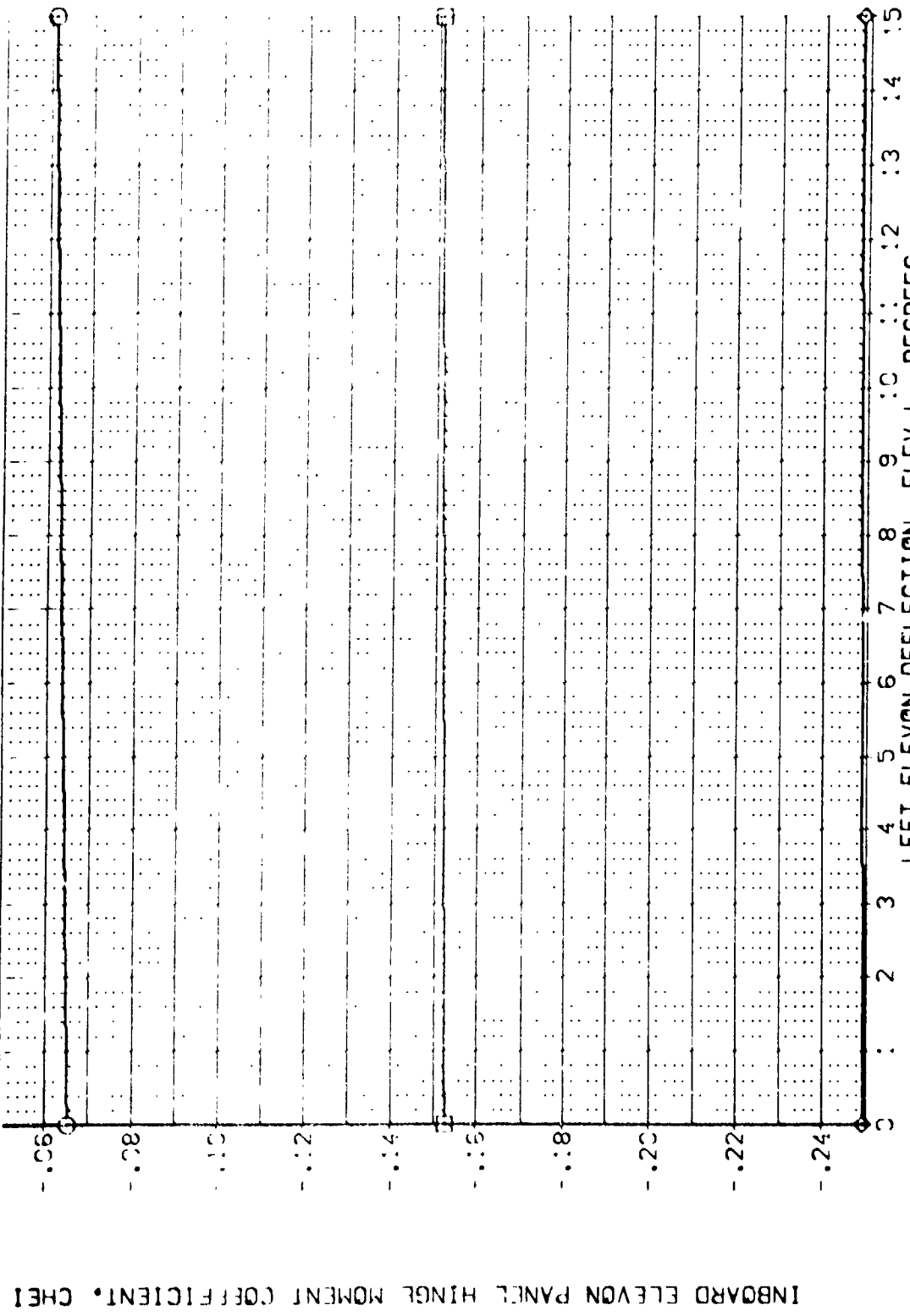


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

SYMBOL
◇

ALPHA
.000
10.000
20.000

MACH
ELEVON
RUDDER

PARAMETRIC VALUES
BETA
AILERON
SPDBRK
ELEV-R

DATA SOURCE
ELEV-L
ELEV-L
ELEV-L

REFERENCE INFORMATION
2.4210
14.2440
28.1004
32.9000
11.2500
10.9000

INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

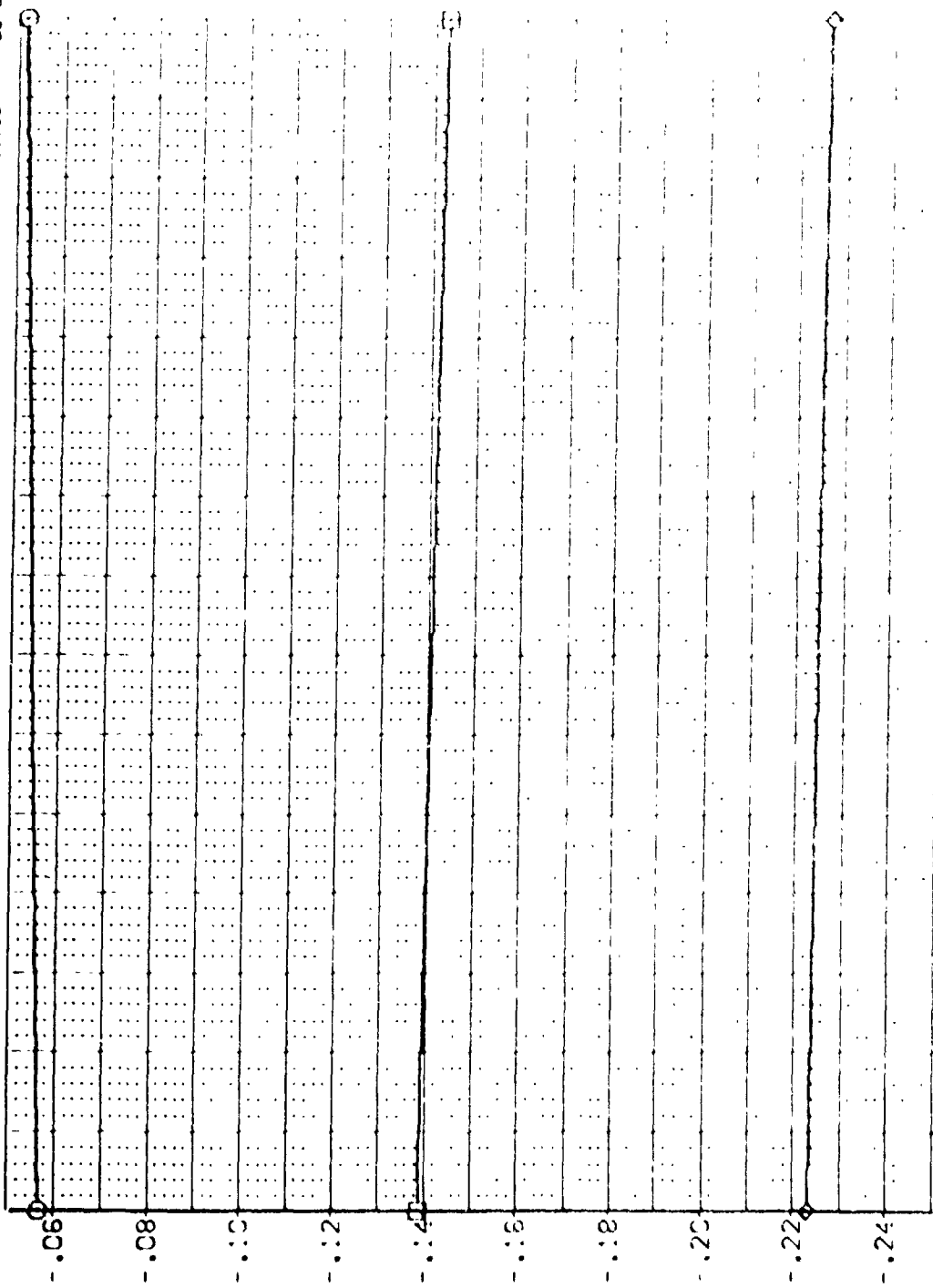


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

ARC 97-747 CA538 B C M F W I V NOM. RN/L (EEK006)

SYMBOL

ALPHA
 .000
 10.000
 20.000

W/DH
 ELEVON
 DEF/LAP
 RUDDER

PARAMETRIC VALUES
 BETA
 AILERON
 SPDBRK
 ELEV-R

.000
 7.500
 -11.700
 .000

.000
 -7.500
 56.000
 15.000

DATA SOURCE
 ELEV-L
 .000
 EEK006

ELEV-L
 15.000

SREF
 REF
 SREF
 YMRP
 ZMRP
 SCALE

REFERENCE INFORMATION
 2.4210
 16.2410
 28.1004
 32.3010
 .0000
 11.2500
 .0300
 SCALE

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEO

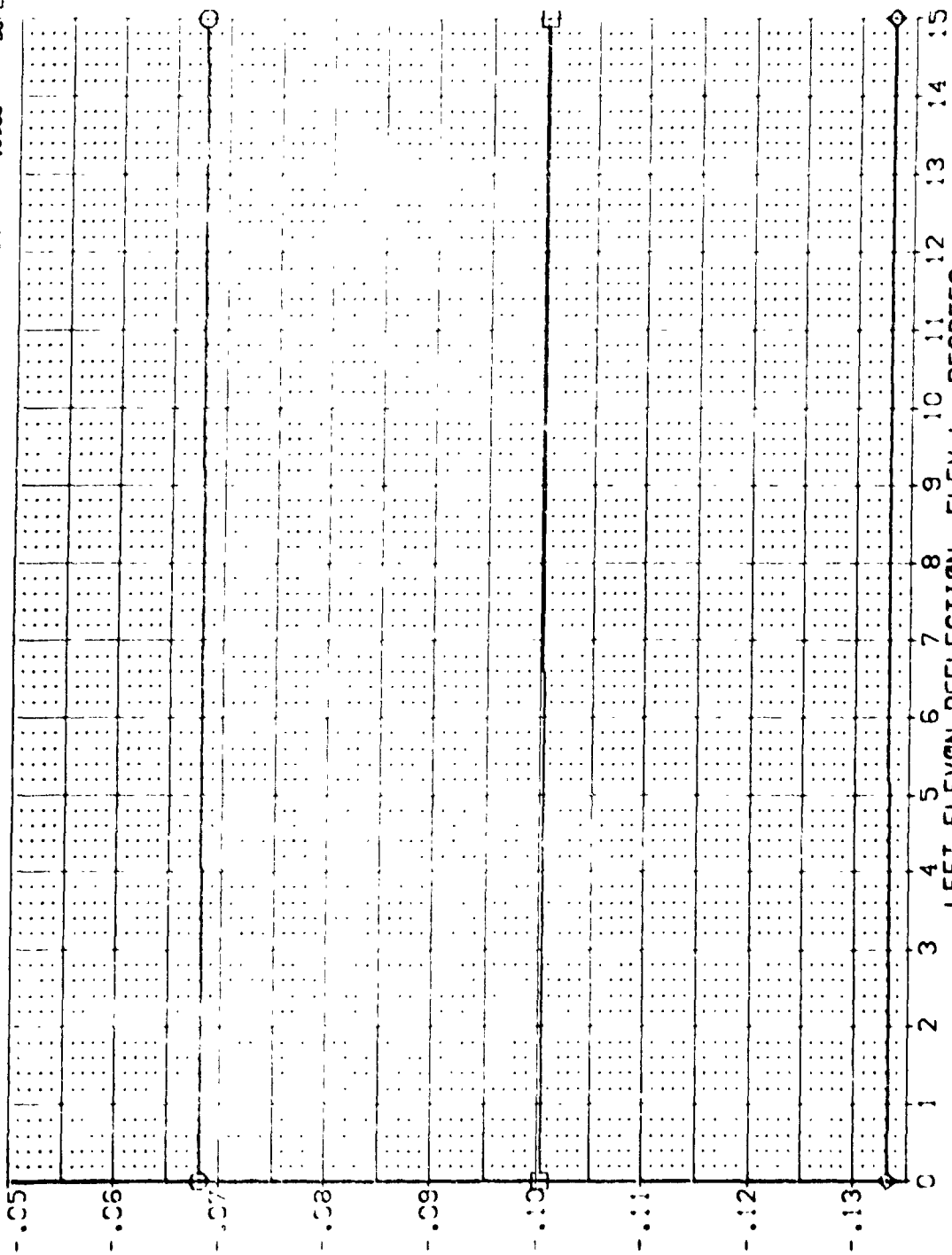
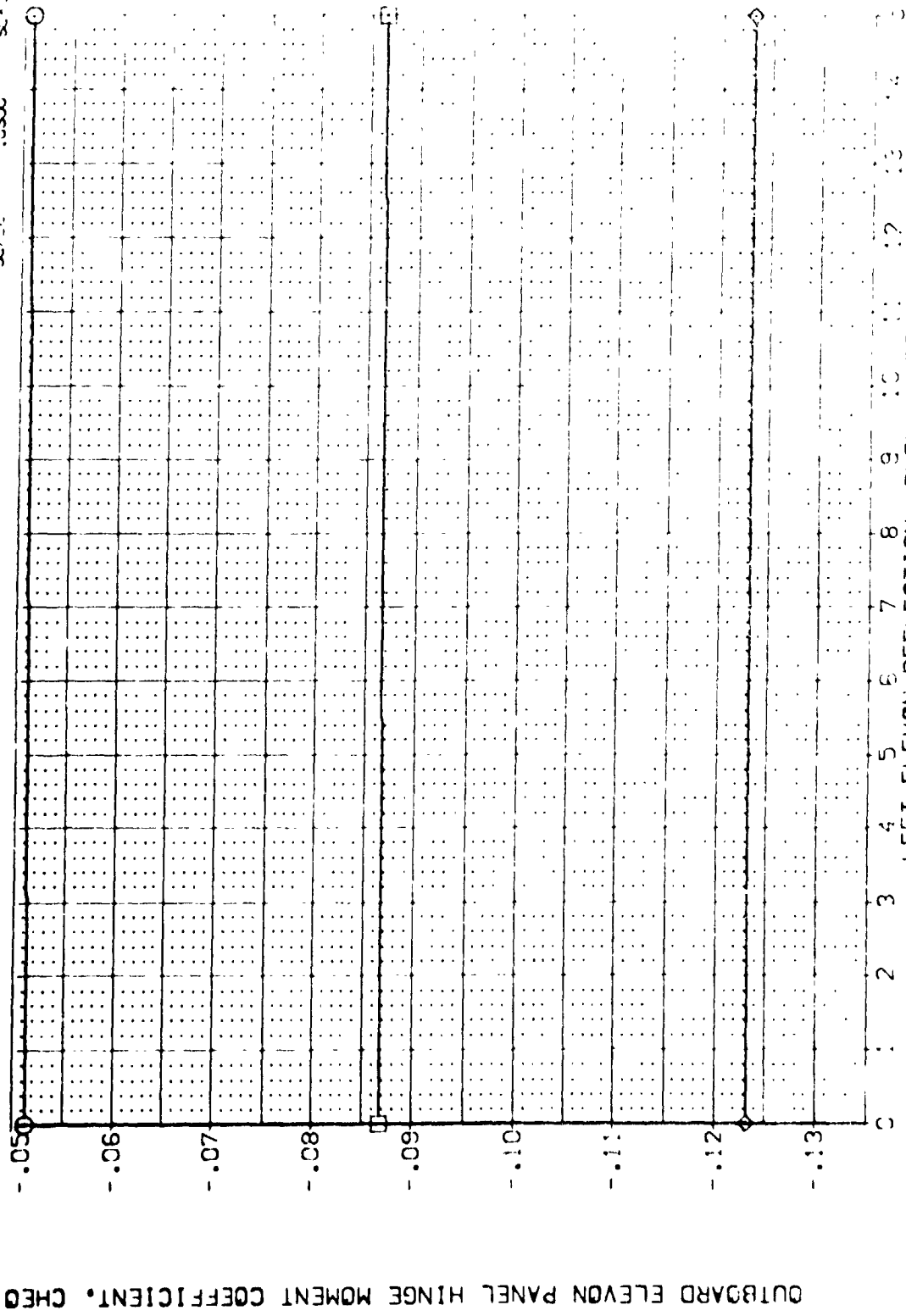


FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES

ALPHA	PARAMETRIC VALUES	DATA SOURCE	REFERENCE INFORMATION
.000	BETA	ELEV-L	SC.FT.
10.000	2.000	.000	2.4210
20.000	7.500	EEK006	14.2440
	AILRON	ELEV-L	28.1004
	-11.700	.000	32.3010
	SPDRK	EEK003	0.000
	.000	EEK003	11.2500
	ELEV-R	EEK003	0.000
	15.000	SCALE	0.000



OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CMO

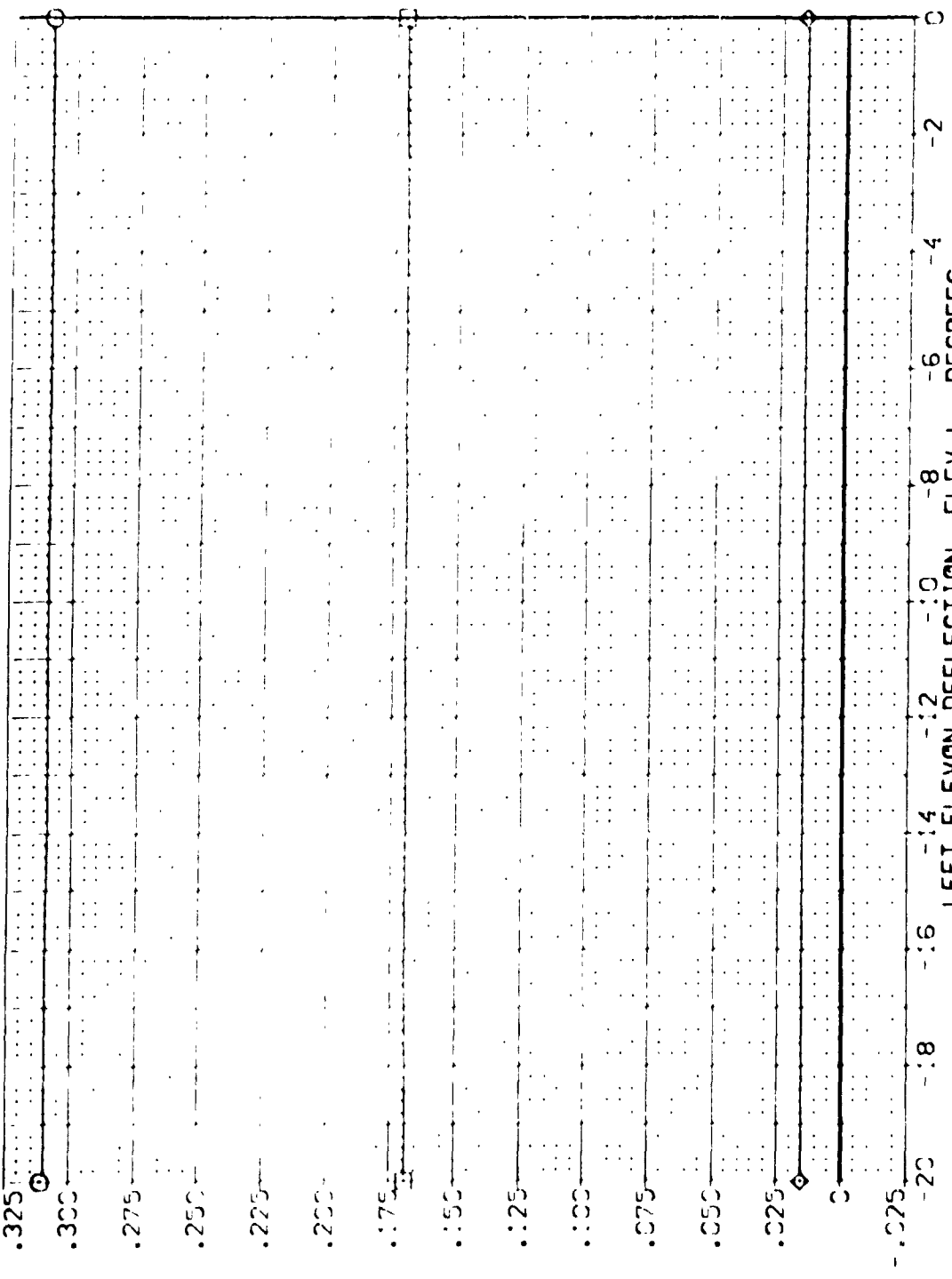
FIG. 44 AILERON INTERACTIONS, RIGHT ELEVON= 15 DEGREES



ARC 97-717 C-533 B C M F W1 / NGM, RN/L (EEK02:)

SYMBOL
 0
 10
 20

ALPHA	PARAMETRIC VALUES		DATA SOURCE		REFERENCE INFORMATION	
.000	MACH	BETA	.000	ELEV-L	SPREF	2.4210
10.000	ELEVON	AILERON	10.000	EEK021	SPRE	14.2440
20.000	BOFLAP	SPDBRM	50.000		SPRE	28.1000
	PLDDER	ELEV-R	-20.000		SPRE	32.3000
					SPRE	30.0000
					SCALE	11.2500
					SCALE	1.0000



TOTAL ELEVON HINGE MOMENT COEFFICIENT, C_{HET}

FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES

SYMBD

ALPHA
 .000
 10.000
 20.000

MACH
 ELEVON
 BOFLAP
 RUDDER

PARAMETRIC VALUES
 BETA
 ALLPON
 SPOBRK
 ELEV-R

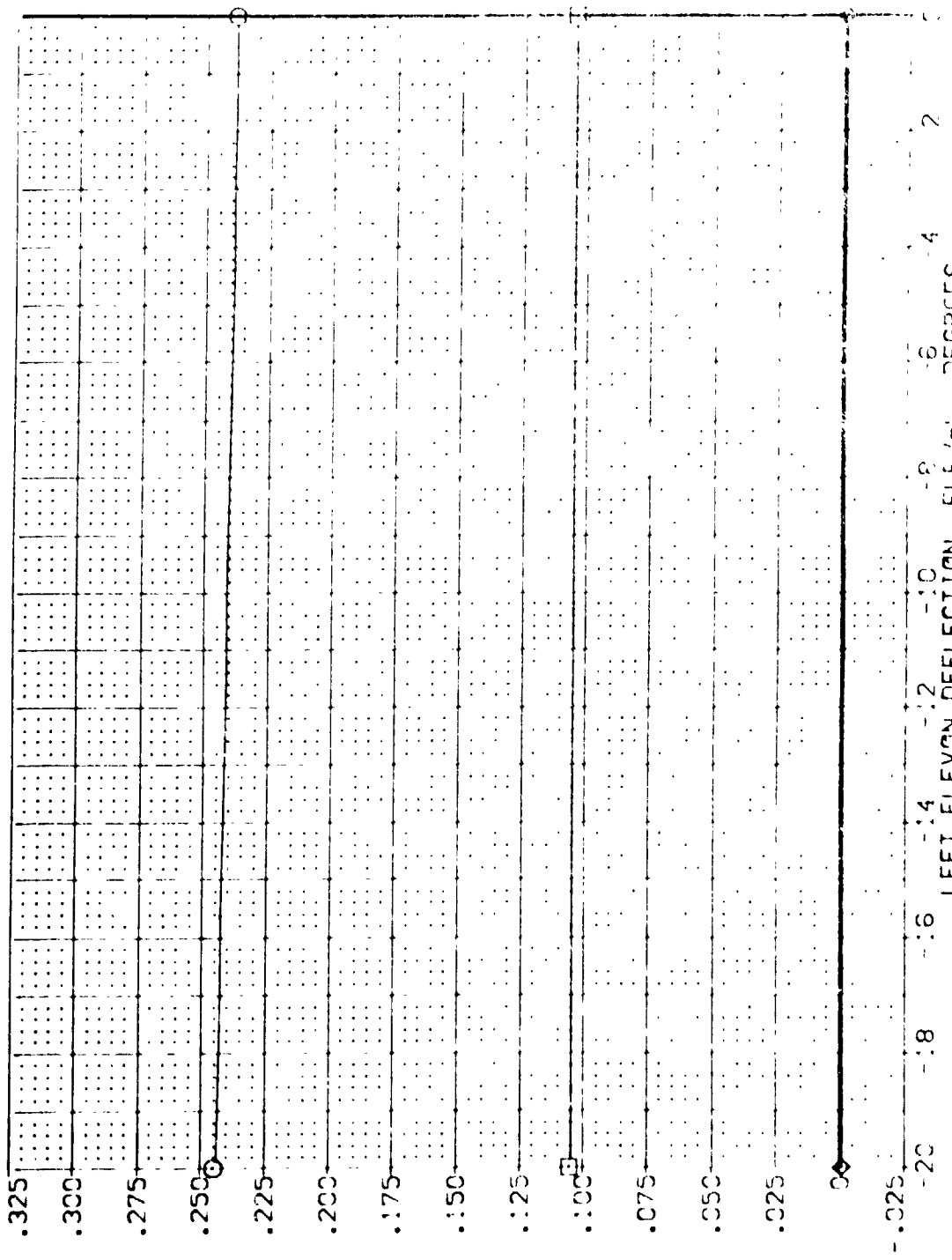
.000
 10.000
 55.000
 -20.000

DATA SOURCE
 ELEV-L
 .000

DATASET
 EEO021

ELEV-L
 -20.000

REFERENCE INFORMATION
 SPEC 2.4210
 LREF 14.2640
 SREF 28.1004
 YMRD 32.3010
 ZMRD .0000
 SCALE 11.2500
 SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, CHT

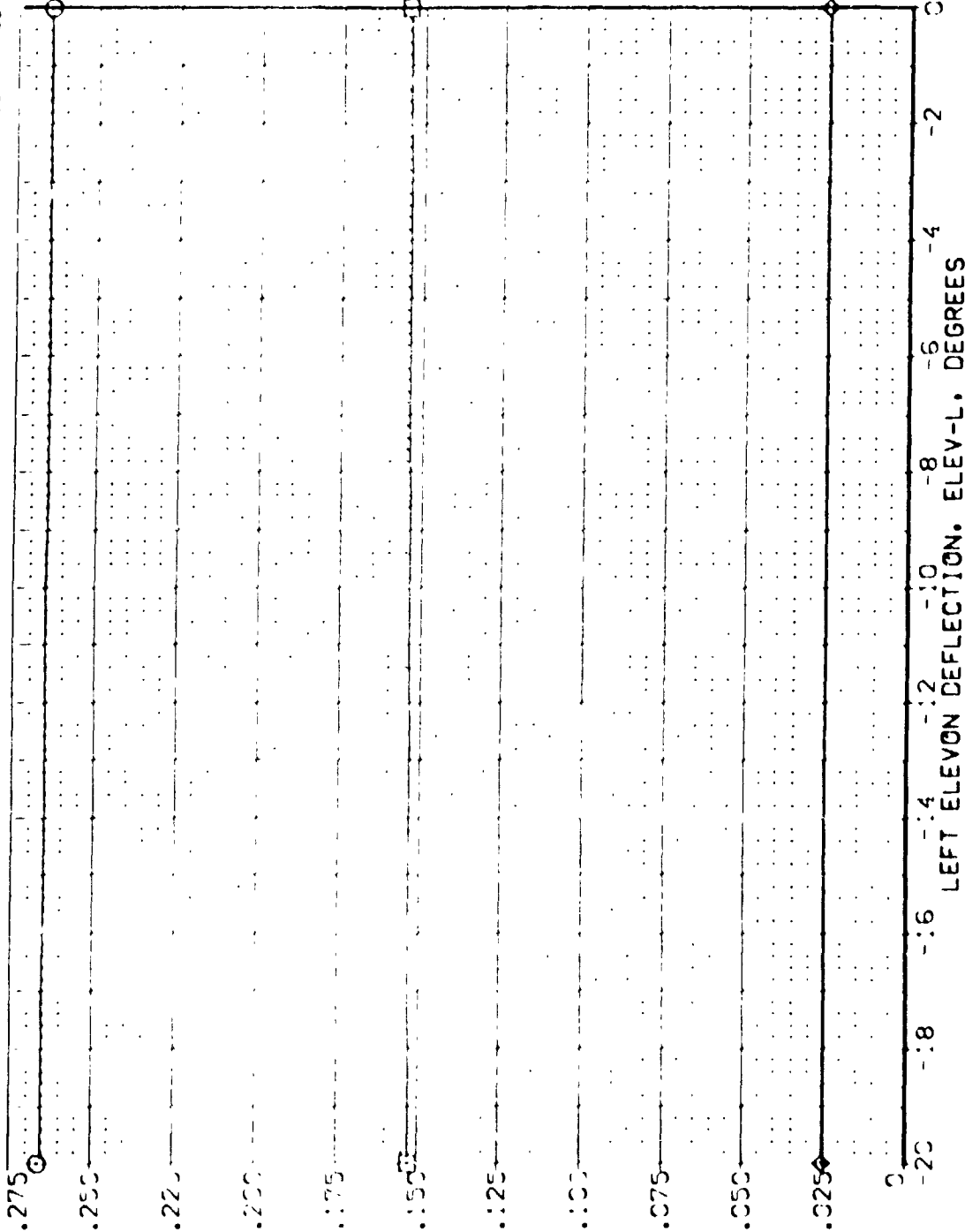
LEFT ELEVON DEFLECTION, ELEVON, DEGREES

FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES



PARAMETRIC VALUES		DATA SOURCE	
MACH	BETA	DATASET	ELEV-L
.000	1.600	EEK021	.000
10.000	-10.000	10.000	10.000
20.000	-11.700	56.000	56.000
30.000	.000	ELEV-R	-20.000

REFERENCE INFORMATION	
SPKE	2.4210
SPKE	14.2410
SPKE	28.1024
SPKE	32.3010
SPKE	11.7000
SPKE	11.7000
SCALE	11.7000



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_HI

FIG. 45AILERON INTERACTIONS. RIGHT ELEVON=-20 DEGREES

SYMBOL
 □
 ◇

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 2.000
 ELEVON -10.000
 BOFLAP -11.700
 RUDDER .000

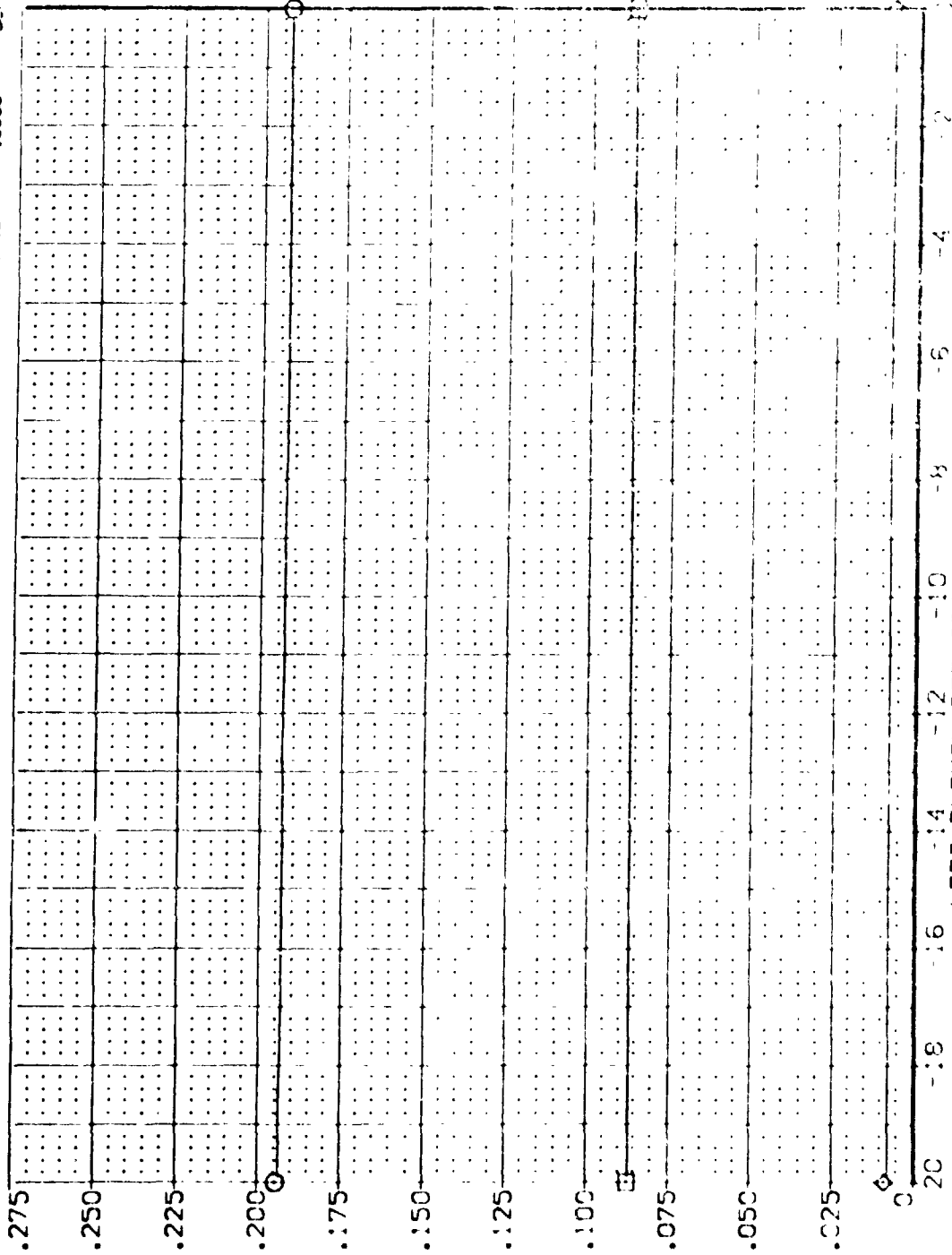
BETA
 AILERON 10.000
 SPOBRK 55.000
 ELEV-R -20.000

DATA SOURCE
 ELEV-L .000

DATASET
 EEK021

REFERENCE INFORMATION
 SQ.FT.
 2.4210
 14.2410
 28.1004
 32.3010
 .0000
 11.2500
 .0300

SCALE



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

LEFT ELEVON DEFLECTION, ELEVON-L, DEGREES

FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES



ARC 97-747 3A533 B C M F W I V NCM. RN/L (EEK021)

ALPHA	PARAMETRIC VALUES		DATA SOURCE	REFERENCE INFORMATION	
.000	MACH	BETA	ELEV-L	SREF	SC.FT.
10.000	ELEVON	AI-IRON	.000	14.241C	74.
20.000	BOX LAP	SPOBRK	10.000	28.132A	11.
	RUDDER	ELEV-R	55.000	32.3C1C	11.
			-20.000	.000C	11.
				ZMPP	SCALE
				11.2500	.0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CMO

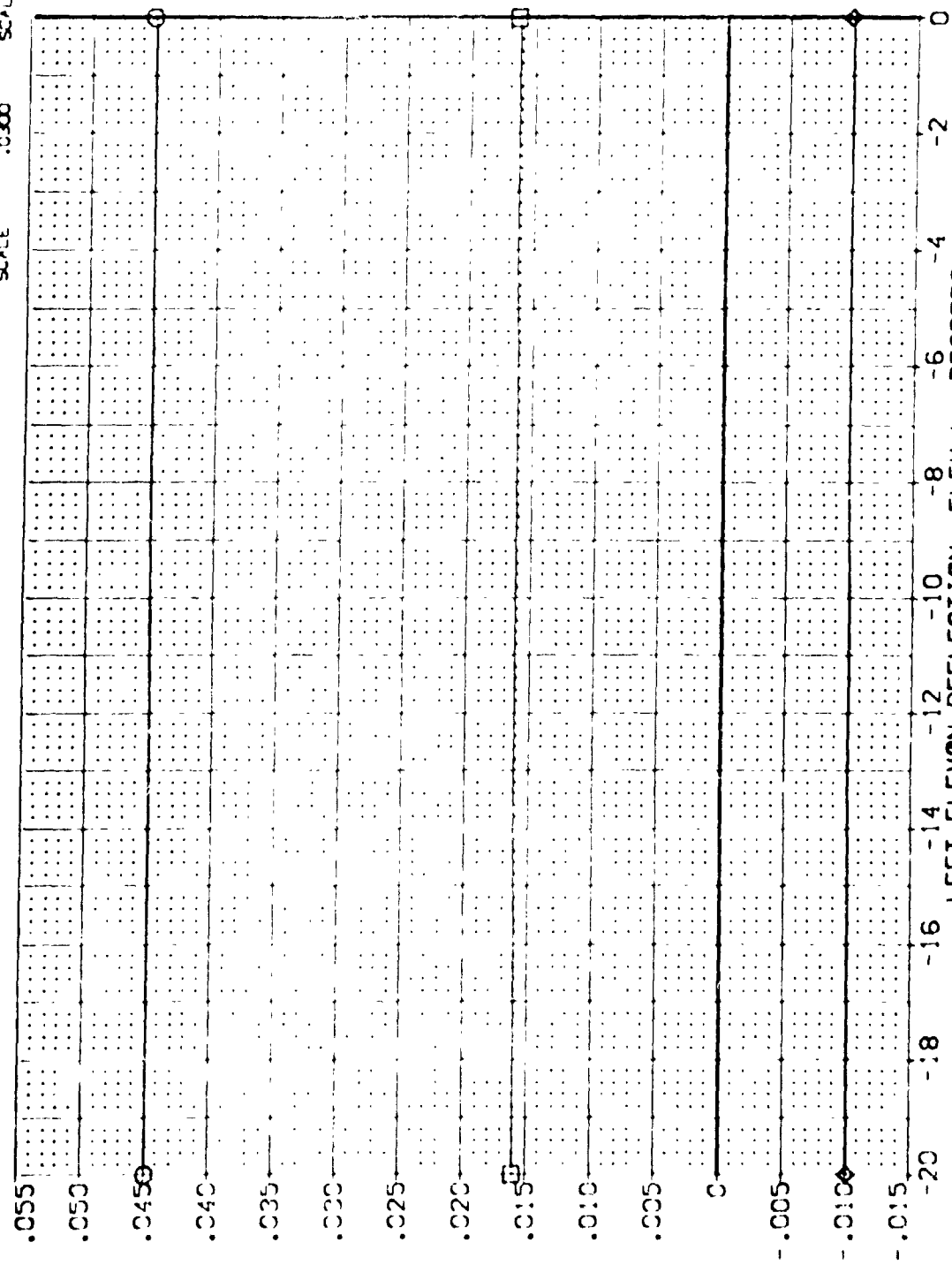


FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES

SYMBOL
 ◇ ○

ALPHA .000
 10.000
 20.000

MACH 2.000
 ELEVON -10.000
 BDFLAP -11.700
 FLUDDER .000

PARAMETRIC VALUES
 BETA .000
 AILERON 10.000
 SPOBRK 56.000
 ELEV-R -20.000

DATA SOURCE
 ELEV-L .000

DATASET
 EEK021

REFERENCE INFORMATION
 SC.F. 2.4210
 SC.E. 14.2410
 SC.P. 28.1004
 SC.S. 32.3010
 SC.T. 11.2000
 SC.L. 10.3000

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HED}

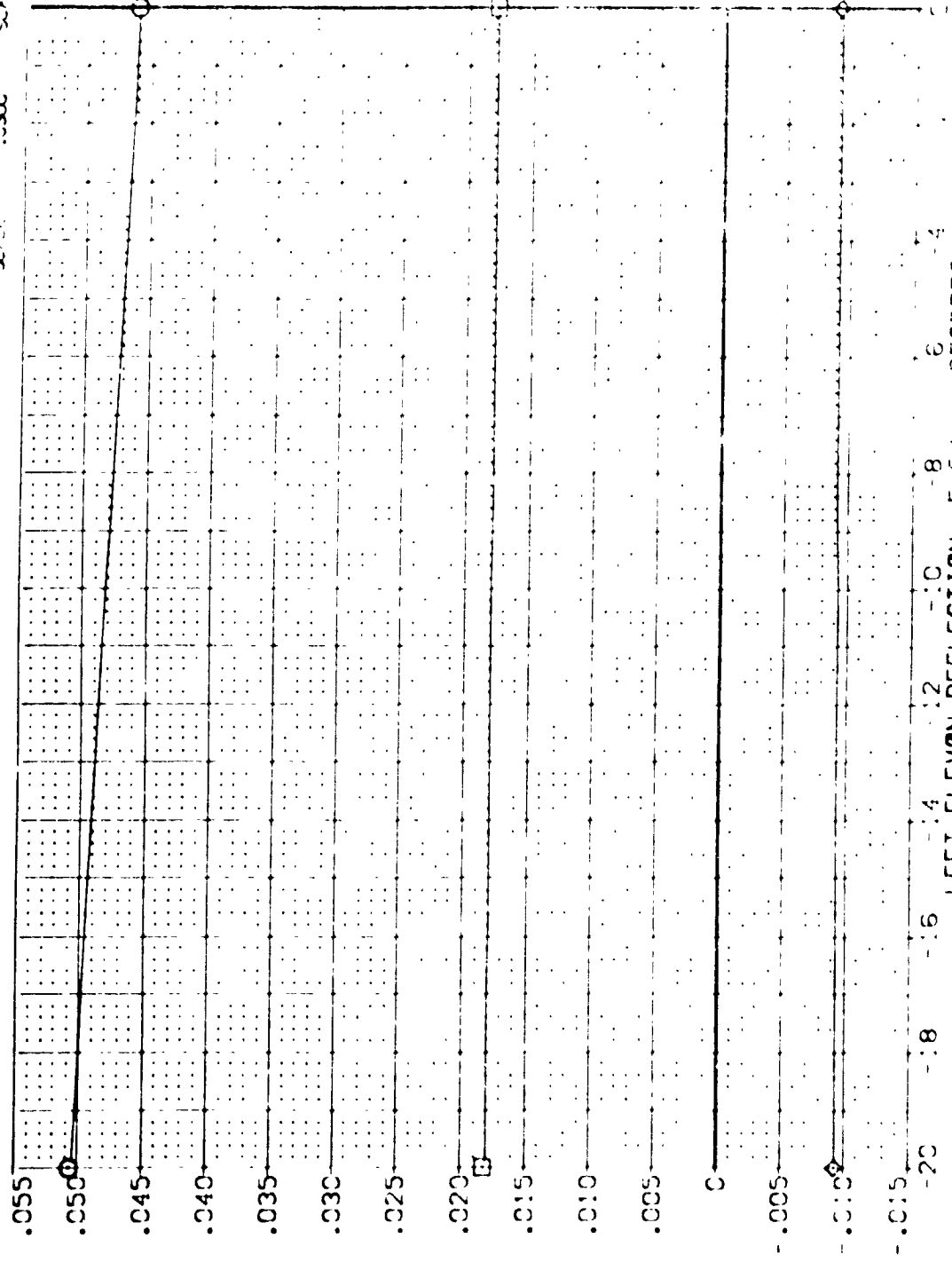


FIG. 45 AILERON INTERACTIONS, RIGHT ELEVON=-20 DEGREES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MON.	RU/L	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YEP003]	ARC 97-747 CA538 B C M F VI V	NON.	RU/L	15.000	.000	-11.700	55.000	SREF 2.4210
[YEP011]	ARC 97-747 CA538 B C M F VI V	NON.	RU/L	.000	.000	-11.700	55.000	LREF 14.2440
[YEP002]	ARC 97-747 CA538 B C M F VI V	NON.	RU/L	-10.000	.000	-11.700	55.000	BRE 28.0004
[YEP019]	ARC 97-747 CA538 B C M F VI V	NON.	RU/L	-20.000	.000	-11.700	55.000	XMF 32.0000
[YEP023]	ARC 97-747 CA538 B C M F VI V	NON.	RU/L	-20.000	.000	-11.700	55.000	YMRP 11.2500
								ZMRP 10.3000
								SCALE

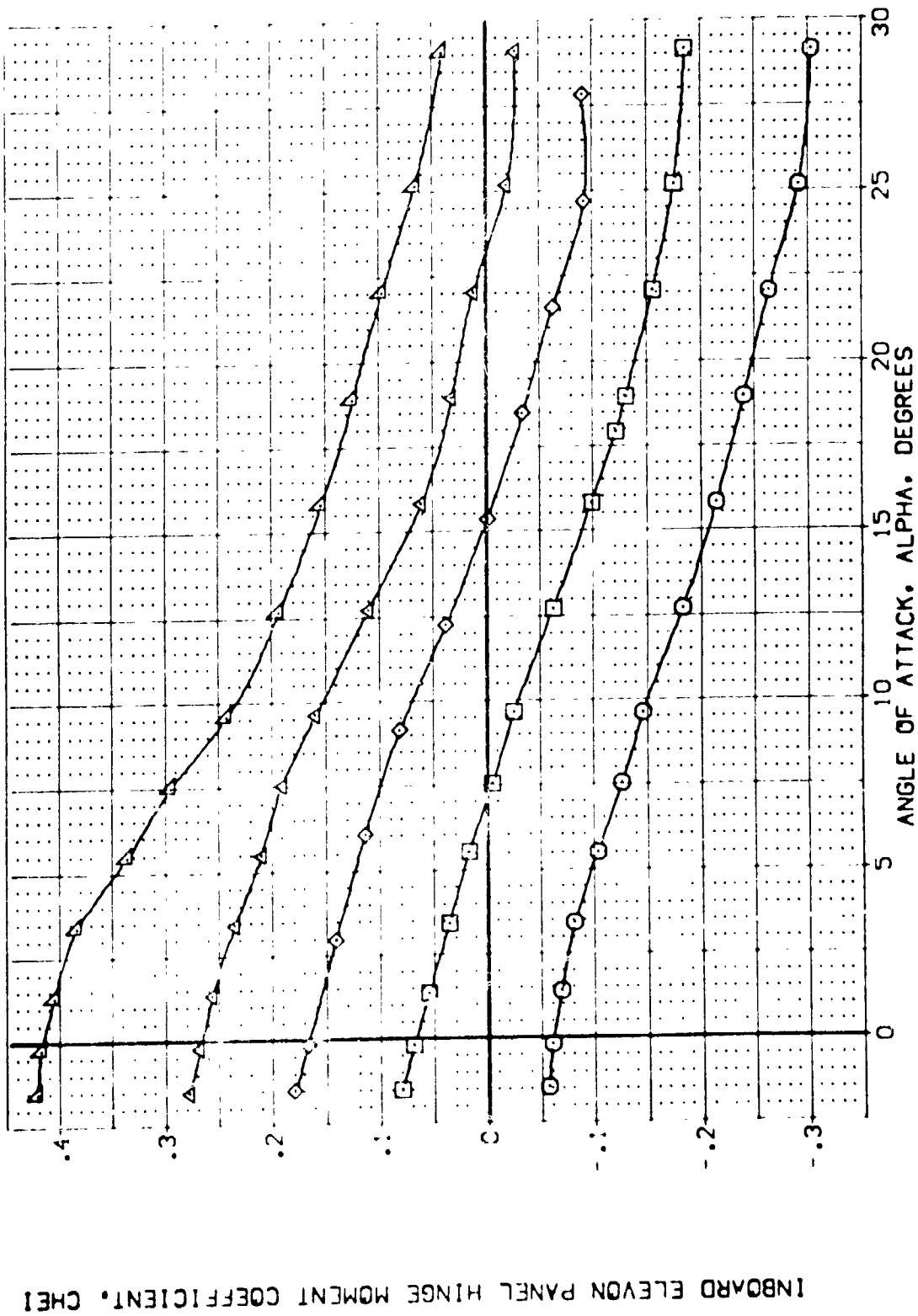


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

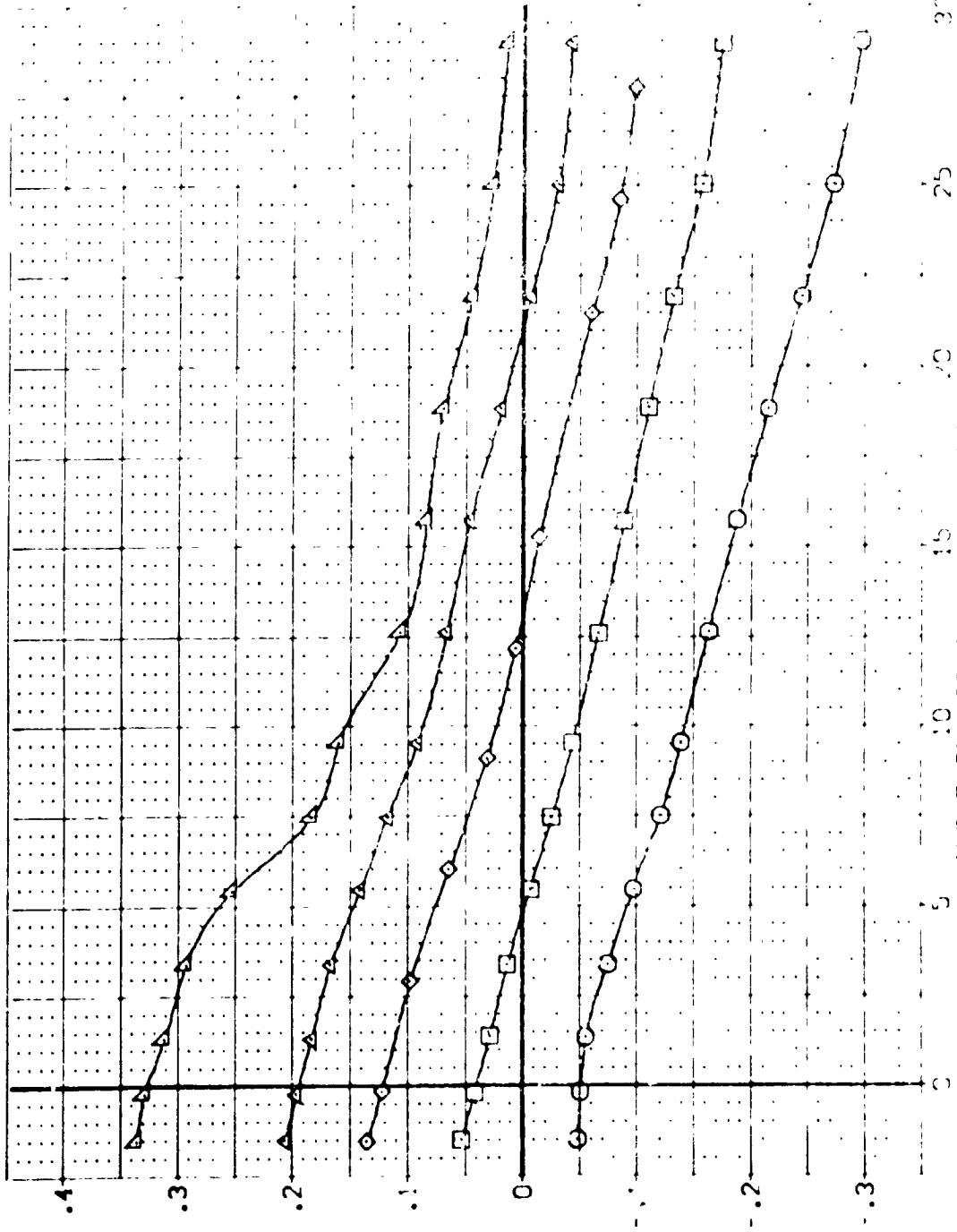
(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION ELEVON AIRLON BDF LAP SPODBK REFERENCE INFORMATION

[YEM003]	ARC 97-747	0A538 B C M F V I V	NOM. RV/L	.000	-.700	55.000	SREF	2.4210
[YEM011]	ARC 97-747	0A538 B C M F V I V	NOM. RV/L	.000	-.700	55.000	LRFF	14.2440
[YEM002]	ARC 97-747	0A538 B C M F V I V	NOM. RV/L	-10.000	-.700	55.000	BRFF	28.1000
[YEM019]	ARC 97-747	0A538 B C M F V I V	NOM. RV/L	-20.000	-.700	55.000	AMRD	37.3000
[YEM023]				-20.000	-.700	55.000	AMRD	11.2500

SCALE .0300 SCALE .0300

INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI



ANGLE OF ATTACK, ALPHA, DEGREES

FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(YEK003)	ARC 97-747 0A538 B C M F VI	V	NDH	RN/L	ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(YEC01)	ARC 97-747 0A538 B C M F VI	V	NDH	RN/L	15.000	.000	-11.700	55.000	SREF 2.4210
(YEC002)	ARC 97-747 0A538 B C M F VI	V	NDH	RN/L	-10.000	.000	-11.700	55.000	LREF 14.2440
(YEC019)	ARC 97-747 0A538 B C M F VI	V	NDH	RN/L	-20.000	.000	-11.700	55.000	BREF 28.1004
(YEA023)	ARC 97-747 0A538 B C M F VI	V	NDH	RN/L	-20.000	.000	-11.700	55.000	XMRP 32.3010
									ZMRP 11.2500
									SCALE .0300

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{H0}

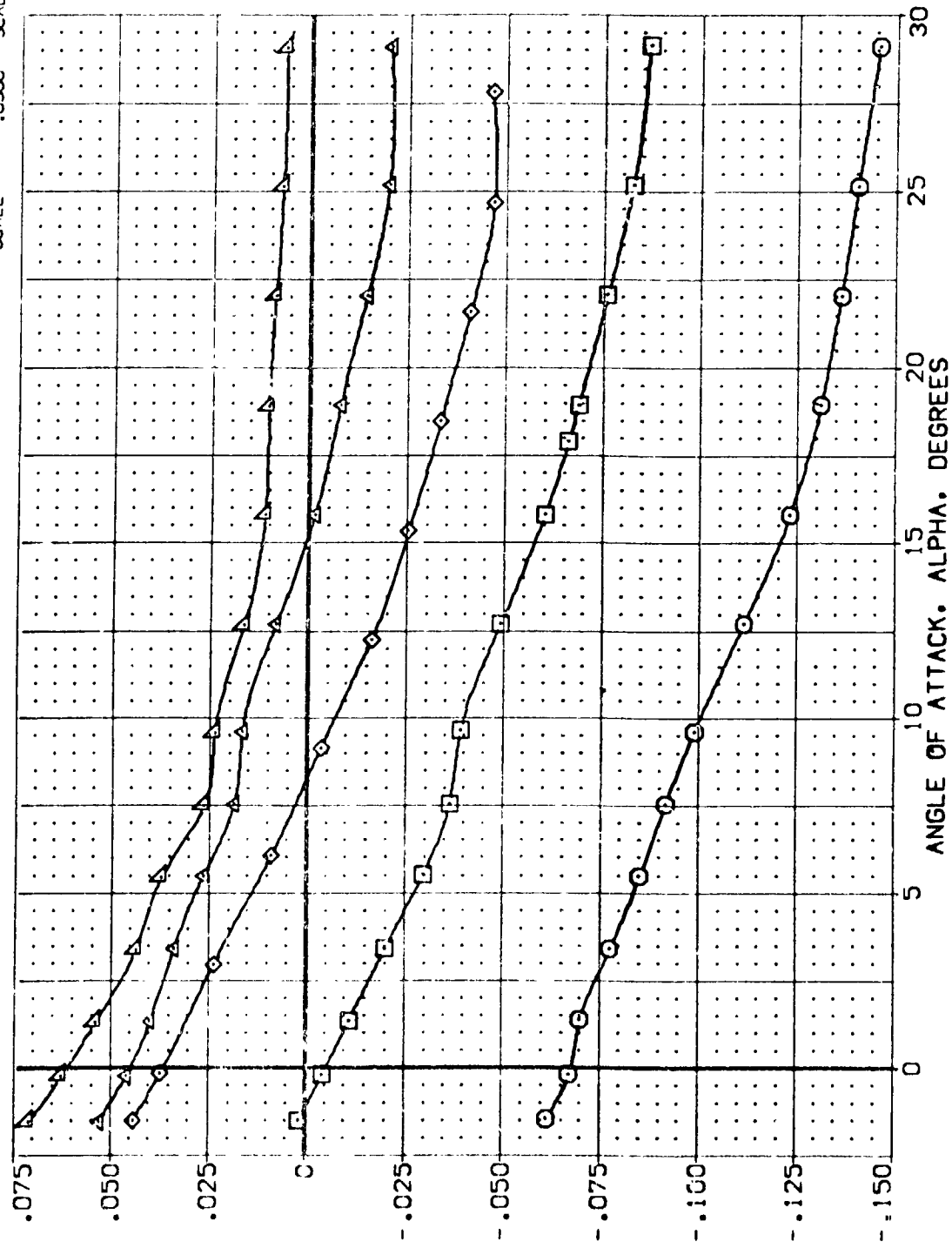


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

{VEK003}	ARC 97-747 0A538 B C M F V1 V	SREF 2.4210
{VEK011}	ARC 97-747 0A538 B C M F V1 V	LREF 14.2440
{VEK002}	ARC 97-747 0A538 B C M F V1 V	BREF 78.1004
{VEK019}	ARC 97-747 0A538 B C M F V1 V	XMRP 92.3013
{VEK023}	ARC 97-747 0A538 B C M F V1 V	ZMRP 111.2500
		SCALE 10300

ELEVON 15.000
 -10.000
 -20.000
 -20.000

AILTRON .000
 .000
 .000
 .000

BUFLAP -11.700
 -11.700
 -11.700
 -11.700

SPDRK 55.000
 55.000
 55.000
 55.000

NON. RV/L
 NON. RV/L
 NON. RV/L
 NON. RV/L

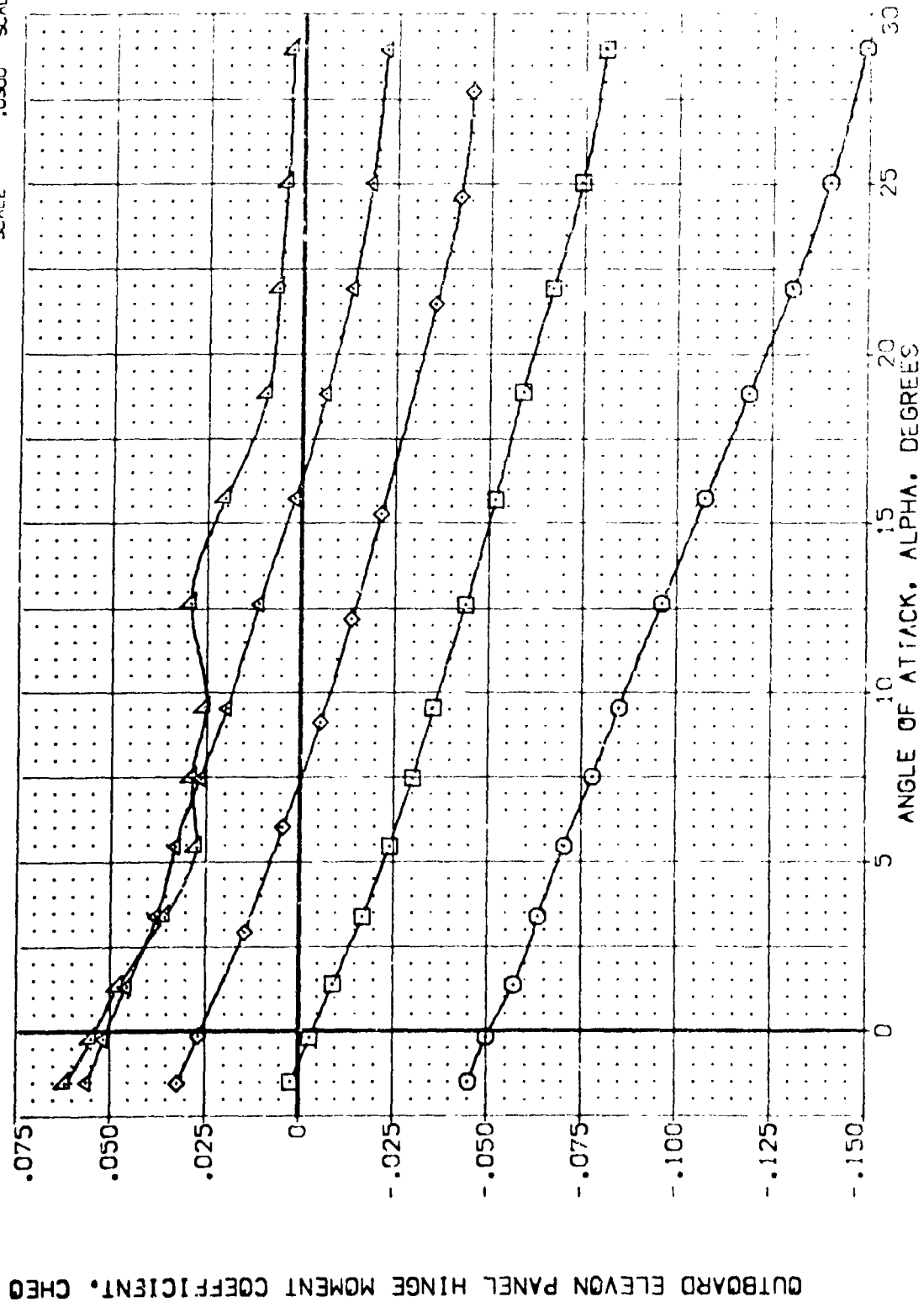


FIG. 46 ELEVON PANEL HINGEMENTS VERSUS ANGLE OF ATTACK

(B)MACH = 2.00



UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	EOF LAP	SPEED	REFERENCE INFORMATION
1 (1)	APC 97-747 2A538 B C M F V	0.000	0.000	0.700	25.000	2.4210 SCALE
2 (2)	APC 97-747 2A538 B C M F V	10.000	0.000	0.700	25.000	14.2440 SCALE
3 (3)	APC 97-747 2A538 B C M F V	20.000	0.000	0.700	25.000	28.1004 SCALE
4 (4)	APC 97-747 2A538 B C M F V	20.000	0.000	0.700	25.000	32.3000 SCALE
5 (5)	APC 97-747 2A538 B C M F V	20.000	0.000	0.700	25.000	11.2000 SCALE
6 (6)	APC 97-747 2A538 B C M F V	20.000	0.000	0.700	25.000	11.3000 SCALE

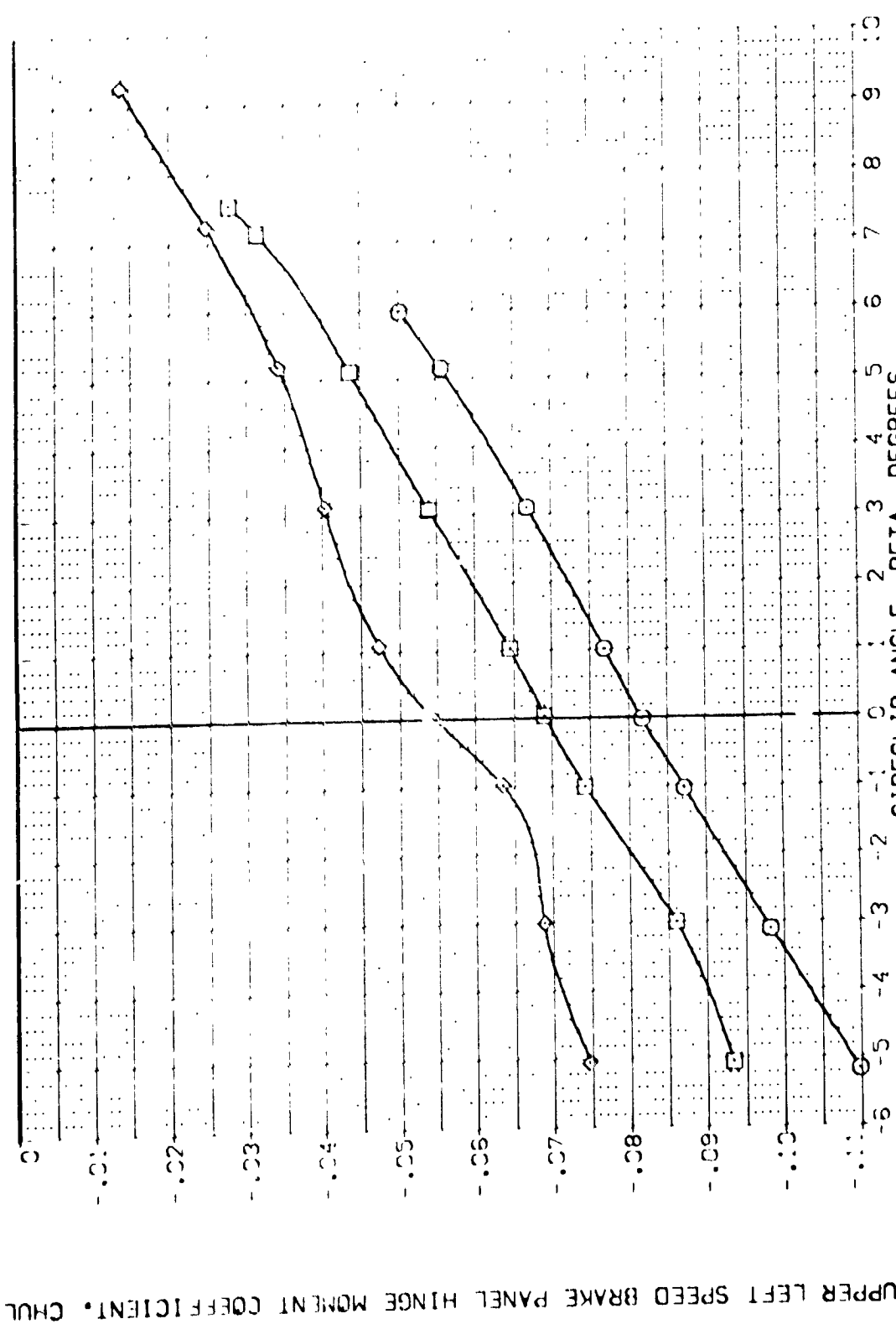


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (A)MACH = 1.60 PAGE 491

DATA SET SYMBOL: [YEA025] [YEA026] [YEA027]

CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPEEDBRK	REFERENCE SPEED	REF. ALT.
ARC 97-747 BA538 B C M F V I V	.000	.000	-11.700	25,000	2,4210	50,000
ARC 97-747 BA538 B C M F V I V	10.000	.000	-11.700	25,000	14,2440	50,000
ARC 97-747 BA538 B C M F V I V	20.000	.000	-11.700	25,000	32,3010	50,000

SCALE: 1:1,2500

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

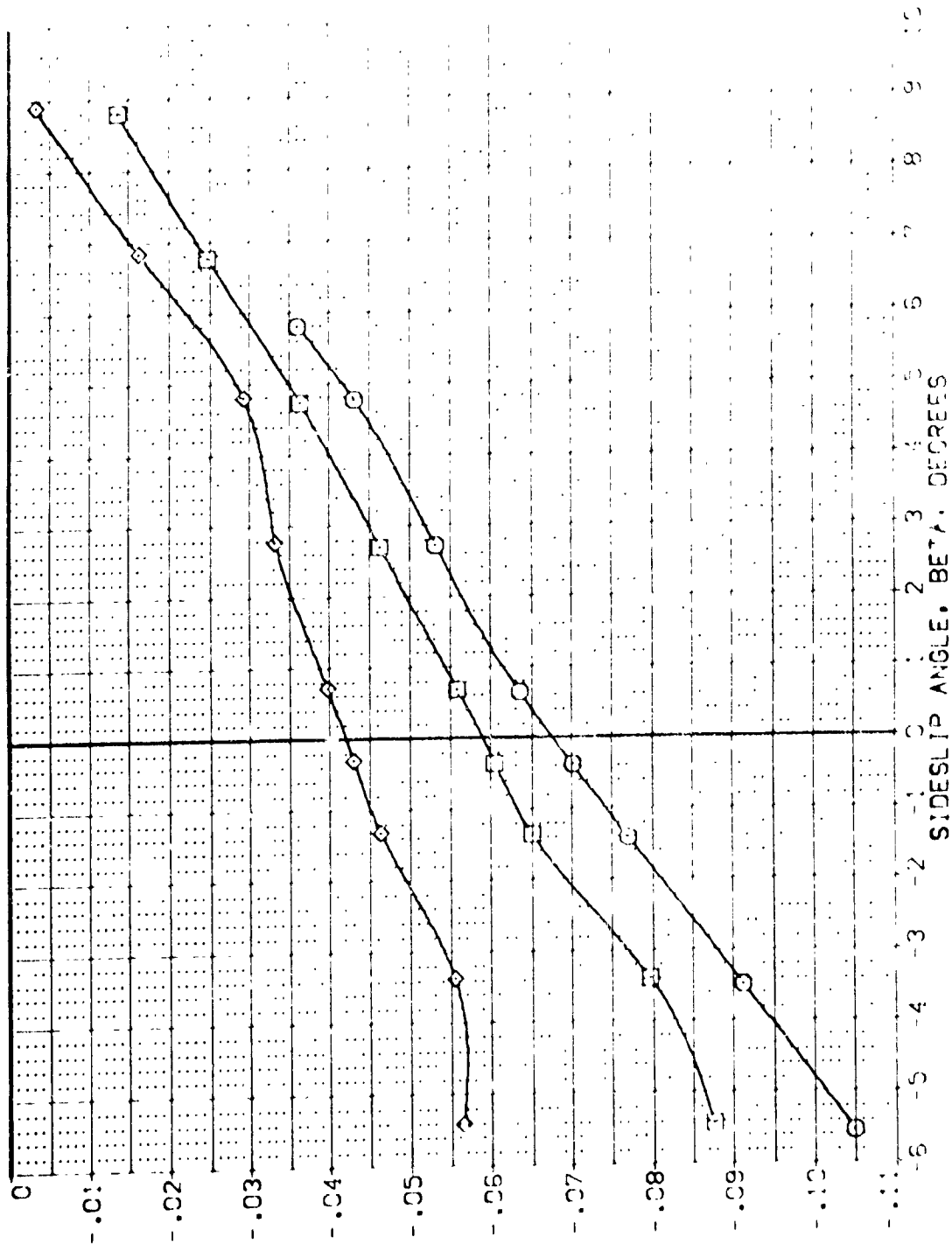


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25,000.
 (B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (VEP075) O ARC 97-747 C4538 B C M F V I V NOM: RNUL
 (VEP076) O ARC 97-747 C4538 B C M F V I V NOM: RNUL
 (VEP077) O ARC 97-747 C4538 B C M F V I V NOM: RNUL

ALPHA .300
 10,000
 20,000

RUDDER .000
 .000
 .000

BOFLAP .000
 .000
 .000

SPOBRK 25,000
 25,000
 25,000

REFERENCE INFORMATION
 SPEC 2,421.0 SQ. FT.
 DEF 14,244.0
 BRFF 28,100.4
 XMRD 32,300.0
 YMRD 11,200.0
 ZMRD 11,200.0
 SCALE .0300 SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

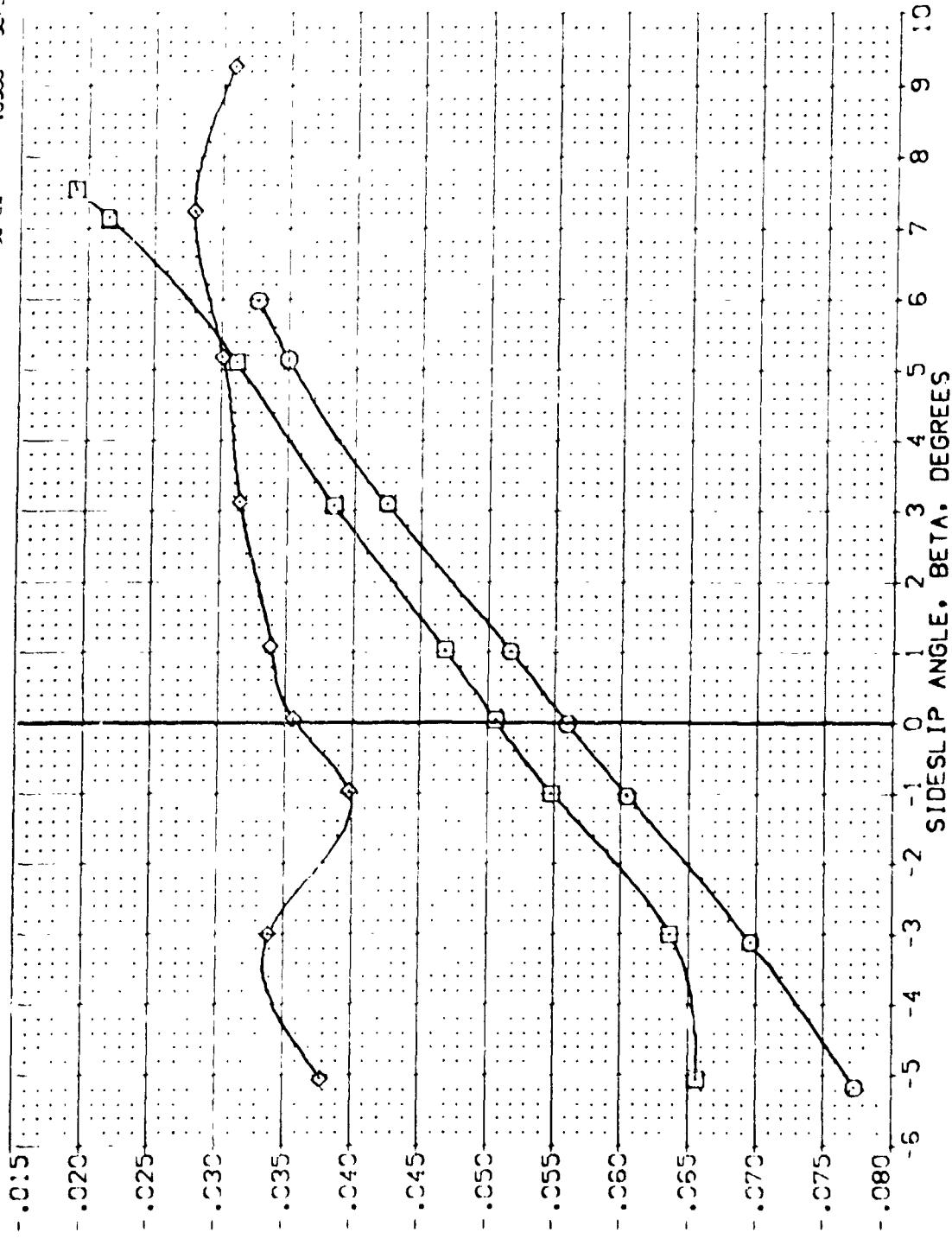


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

CA3MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[YEF075] [] ARC 97-747 DAS38 B C M F V | V NON: RNVL

[YEF076] [] ARC 97-747 DAS38 B C M F V | V NON: RNVL

[YEF077] [] ARC 97-747 DAS38 B C M F V | V NON: RNVL

ALPHA .000

RUDDER .000

BOFLAP .700

SPEEDBRK 25.000

REFERENCE INFORMATION

SREF 2.4210 SQ. FT.

LREF 14.7440

BREF 28.1000

XMRD 32.3010

YMRD .0000

ZMRD .0000

SCALE 11.2500

SCALE .0300

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

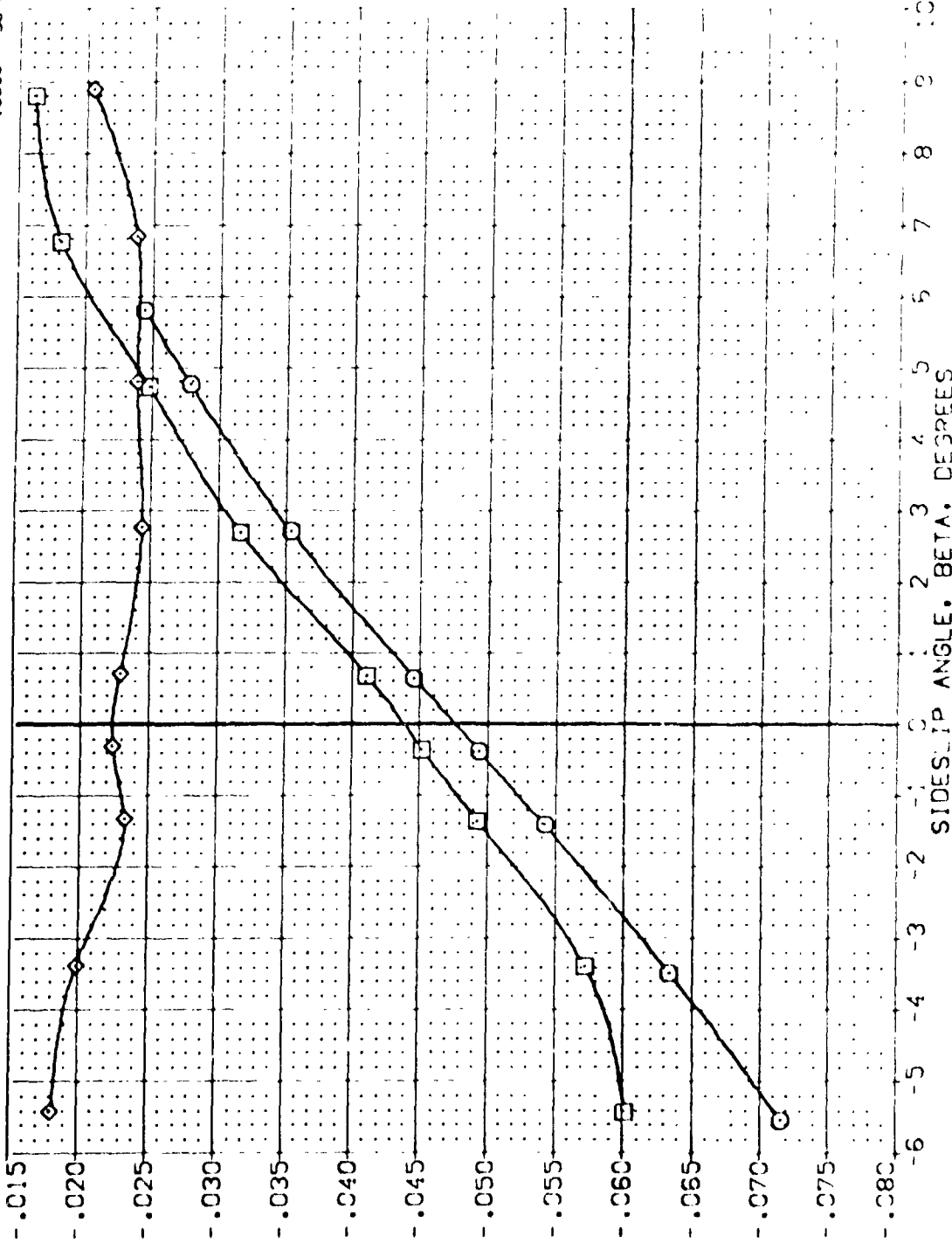


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1) REF 0001 APC 90-747 04528 B C M E V 1 100-1 RV-
 (2) REF 0002 APC 90-747 04528 B C M E V 1 100-1 RV-
 (3) REF 0003 APC 90-747 04528 B C M E V 1 100-1 RV-

ALPHA RUDDER DEF LAP SPEEDY
 000 000 000 75.000
 10.000 000 000 75.000
 20.000 000 000 75.000

REFERENCE INFORMATION
 SCALE 2.4215 SCALE 50.000
 SCALE 4.2445 SCALE 50.000
 SCALE 28.3000 SCALE 50.000
 SCALE 37.3000 SCALE 50.000
 SCALE 7.0000 SCALE 50.000
 SCALE 10.0000 SCALE 50.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

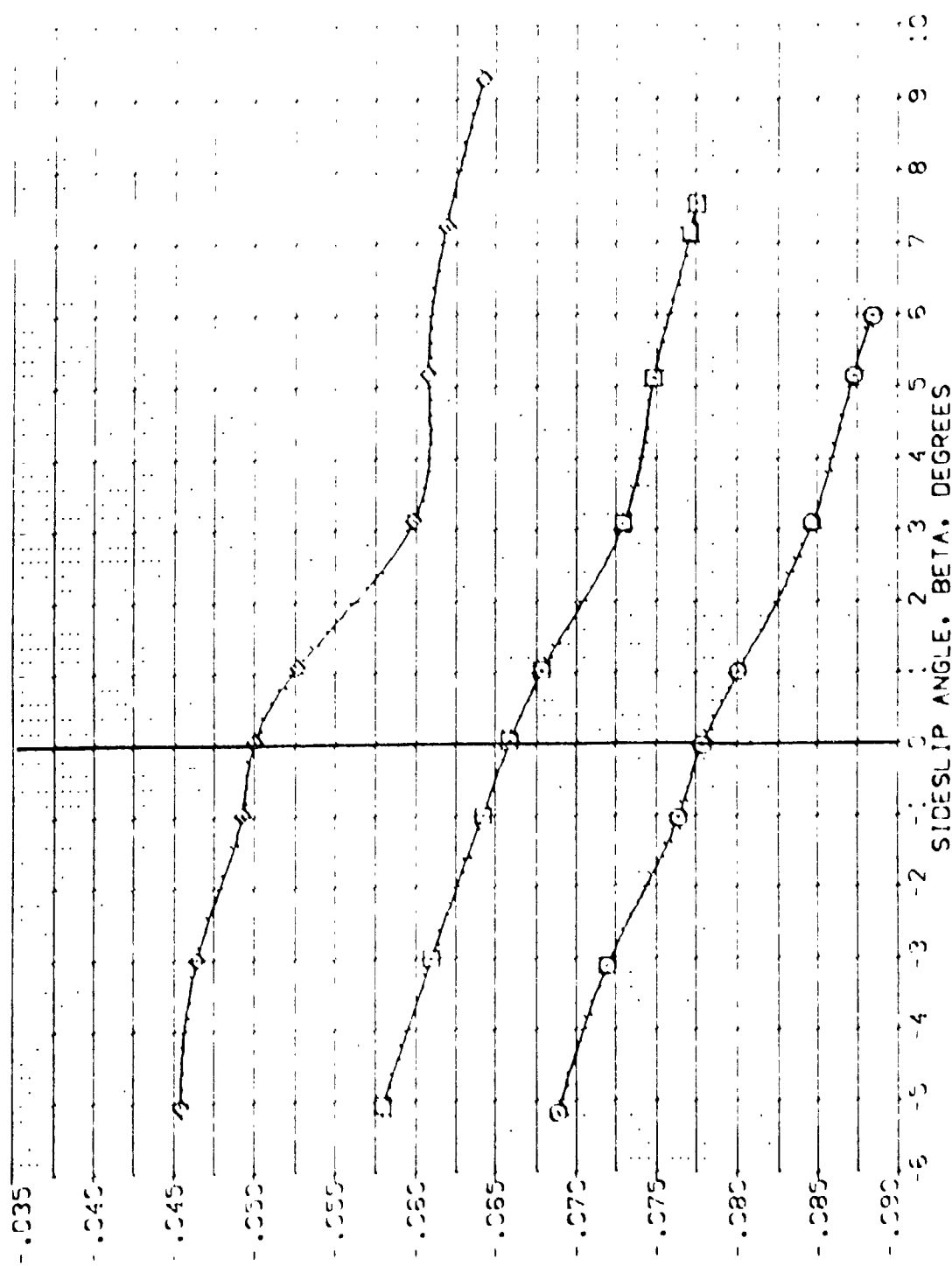


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

CALMACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(YK025)	ARC 97-747 CAS38 B C M F V I V	SPEED	2.4210
(YK026)	ARC 97-747 CAS38 B C M F V I V	LREF	14.2440
(YK027)	ARC 97-747 CAS38 B C M F V I V	BREF	28.1000
		XREF	32.3000
		YREF	11.0000
		ZREF	11.2500
		SCALE	0.0000

ALPHA RUDDER BDF LAP SPOBRK

10.000	.000	-11.700	25.000
20.000	.000	-11.700	25.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

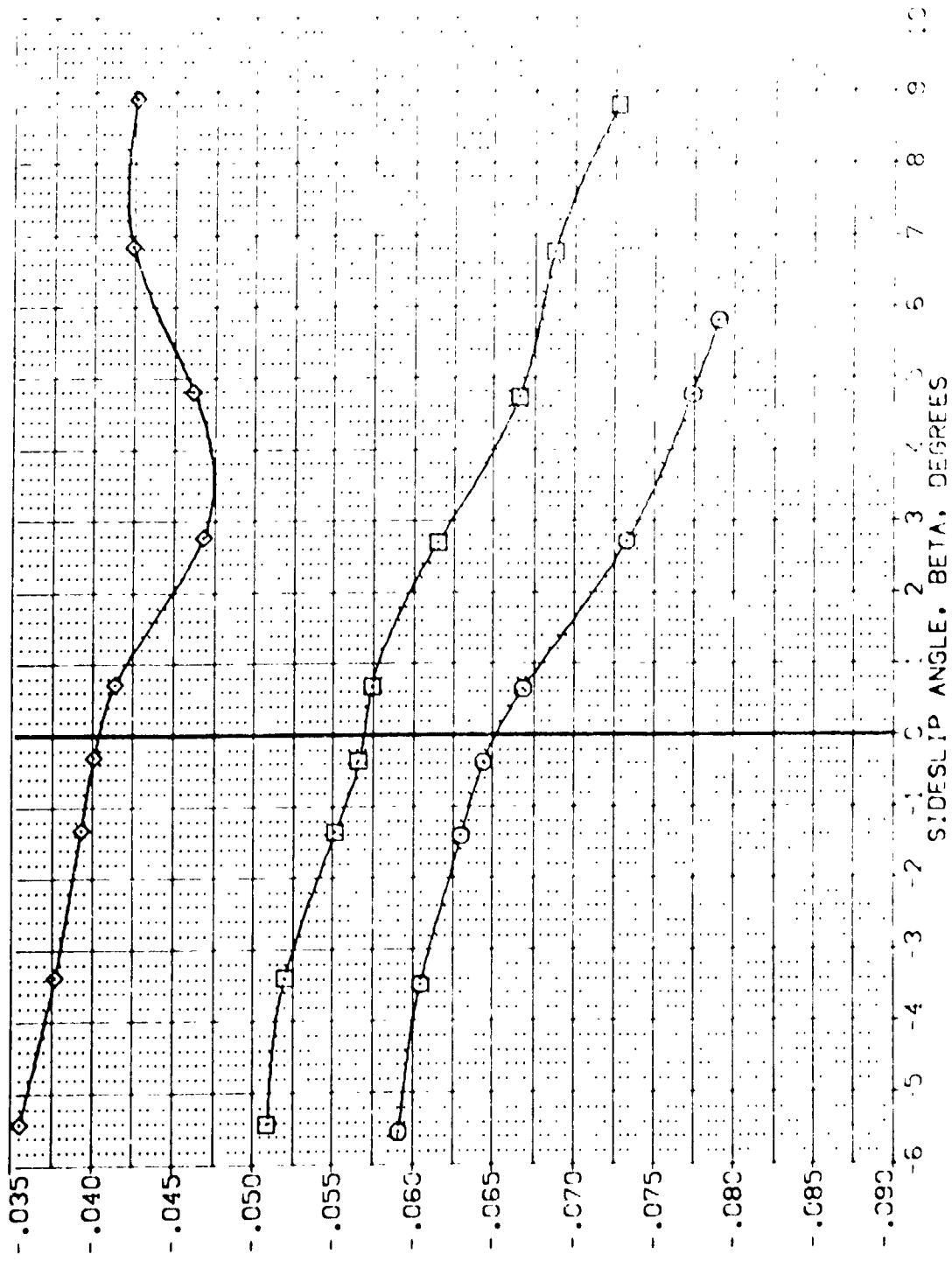


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (B)MACH = 2.00 PAGE 485



DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BOFLAP SPOBRK REFERENCE INFORMATION, SO. FT.

(VEP025)	□	APC 97-747 C1538 B C M F V	V	NON.	PRUL	2.4210	25.000	2.4210	25.000
(VEP026)	□	APC 97-747 C1538 B C M F V	V	NON.	PRUL	14.2440	25.000	14.2440	25.000
(VEP027)	□	APC 97-747 C1538 B C M F V	V	NON.	PRUL	32.3010	25.000	32.3010	25.000

ALPHA SCALE 10.000
RUDDER SCALE 11.700
BOFLAP SCALE 11.700
SPOBRK SCALE 11.700

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

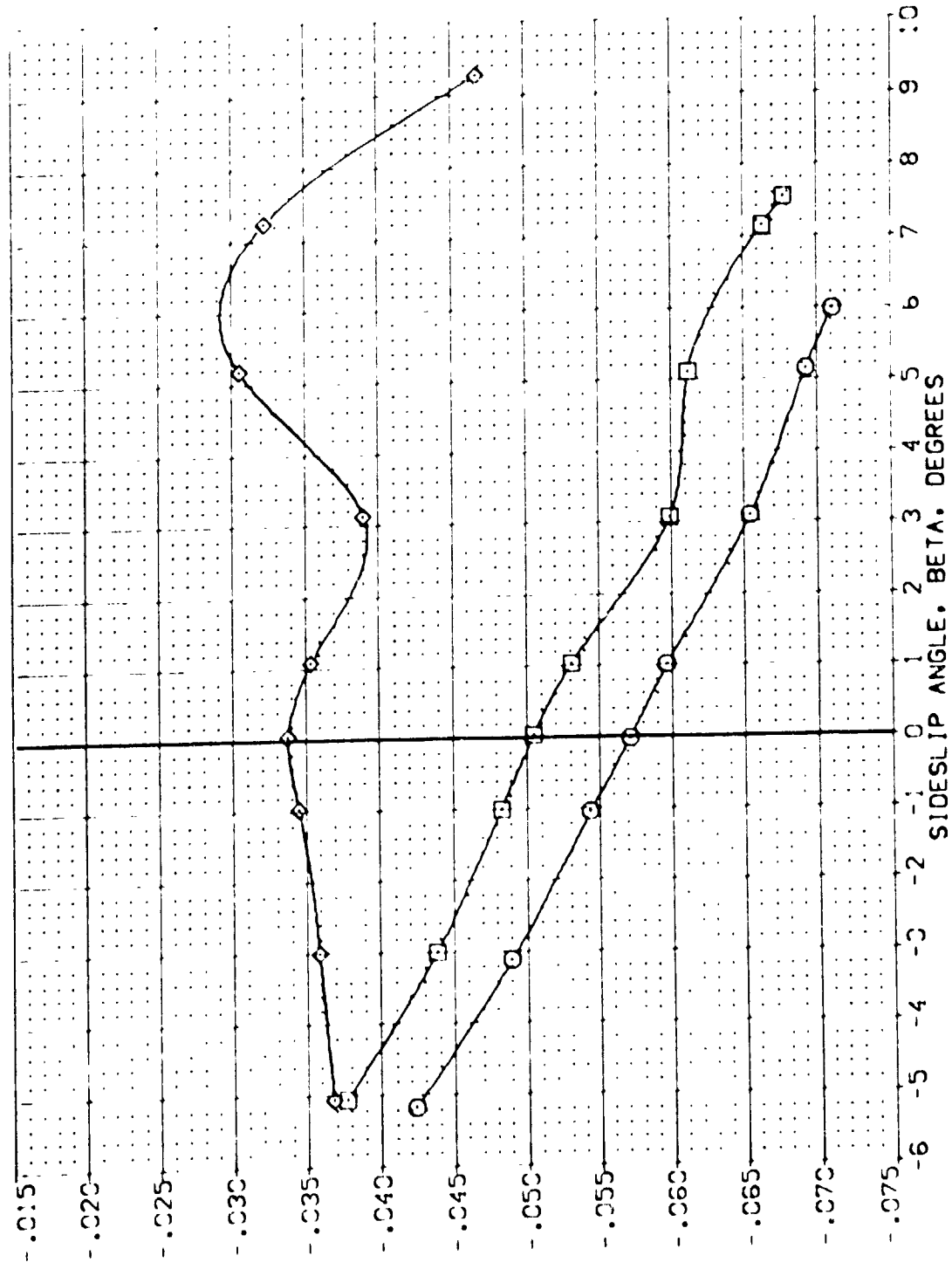


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(A)MACH = 1.60 PAGE 497

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (YER025) ○ ARC 97-747 0A53B B C M F VI V
 (YER026) ◇ ARC 97-747 0A53B B C M F VI V
 (YER027) □ ARC 97-747 0A53B B C M F VI V

NON: RN/L
 NON: RN/L
 NON: RN/L

ALPHA .000
 10.000
 20.000

RUDDER .000
 .000
 .000

BOFLAP -11.700
 -11.700
 -11.700

SPOBRK 25.000
 25.000
 25.000

REFERENCE INFORMATION
 SREF 2.4210 50. F.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

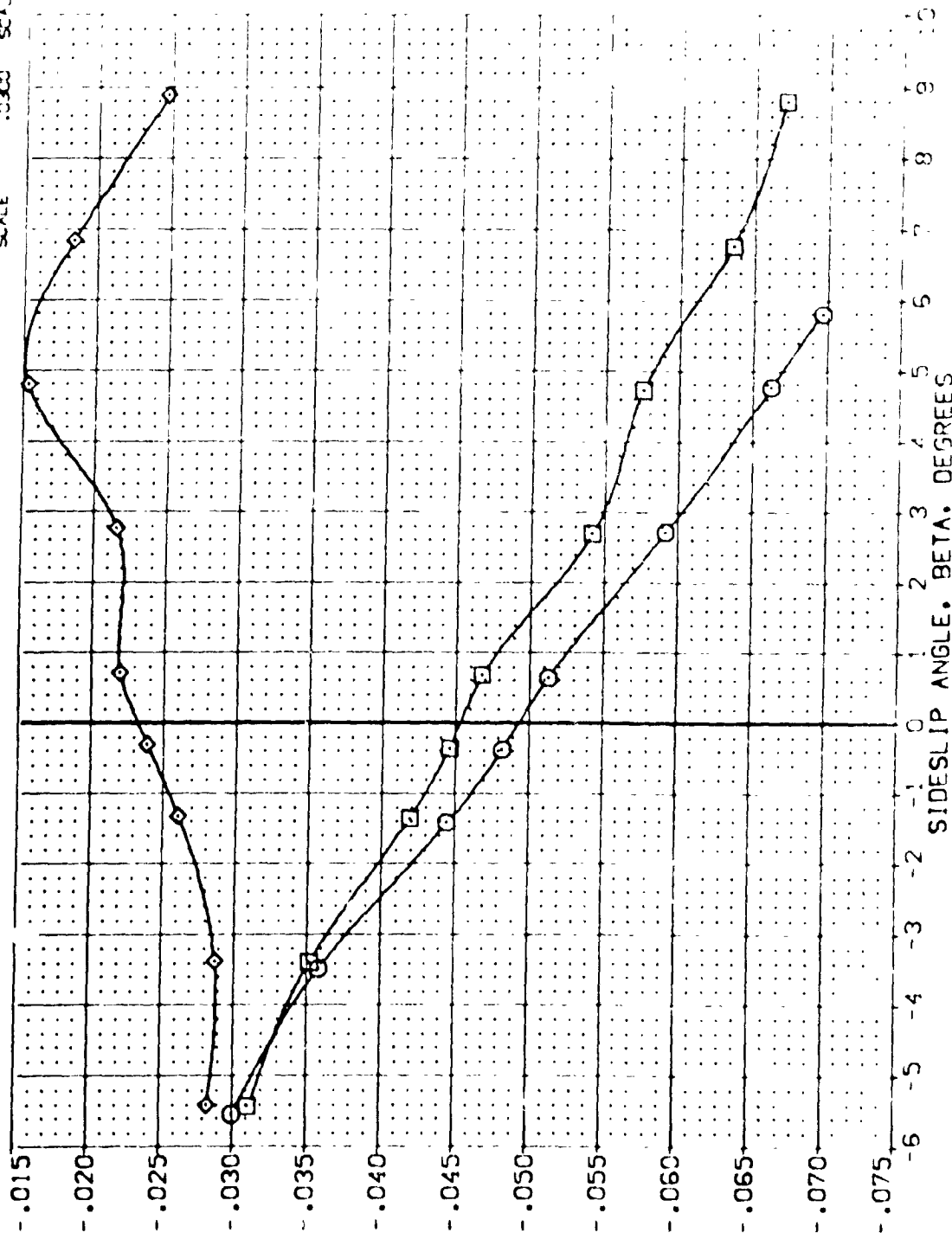
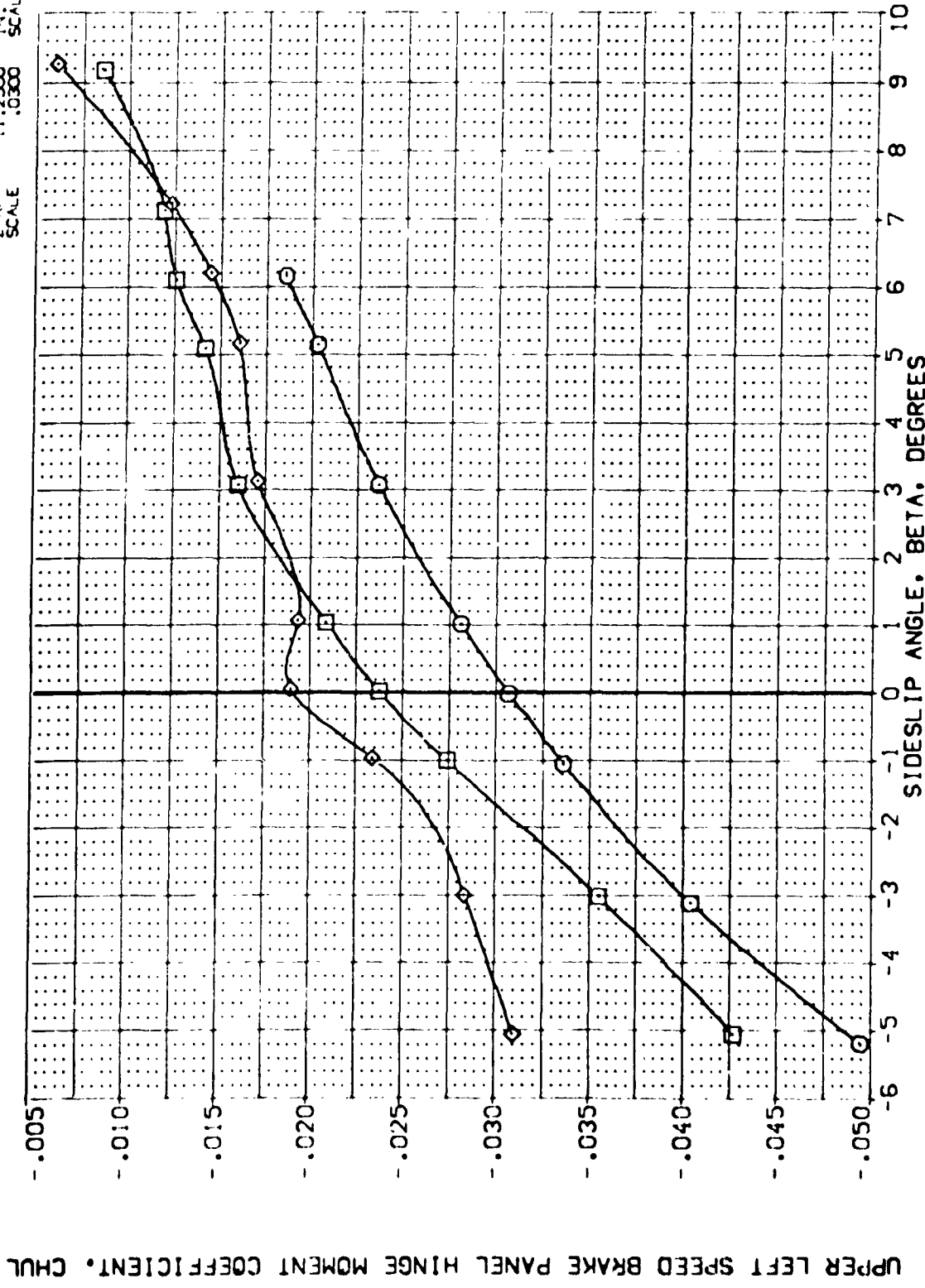


FIG. 47 RUDDER PANEL HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (B)MACH = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

{ YEK035 }	ARC 97-747 2A538 B C M F V	V	NON: RNVL	SPOBRK	SREF	2.4210	50. FT.
{ YEK036 }	ARC 97-747 2A538 B C M F V	V	NON: RNVL	BOFLAP	LREF	14.2440	IN.
{ YEK037 }	ARC 97-747 2A538 B C M F V	V	NON: RNVL	RUDDER	BREF	29.1004	IN.
				ALPHA	XMRP	32.3010	IN.
				0.000	YMRP	0.0000	IN.
				10.000	ZMRP	11.2500	IN.
				20.000	SCALE	.0300	SCALE



UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL

FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(A)MACH = 1.60

PAGE 499

DATA SET SYMBOL: { VER028 } { VER029 } { VER037 }

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F VI V NOM: RVUL
 ARC 97-747 OAS38 B C M F VI V NOM: RVUL
 ARC 97-747 OAS38 B C M F VI V NOM: RVUL

ALPHA: 0.000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF: 2.4210 SO.FT.:
 LREF: 14.2440 N.N.:
 BREF: 28.1004 N.N.:
 XMRP: 32.3010 N.N.:
 YMRP: 0.0000 N.N.:
 ZMRP: 11.2500 N.N.:
 SCALE: .0300 IN.

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHL

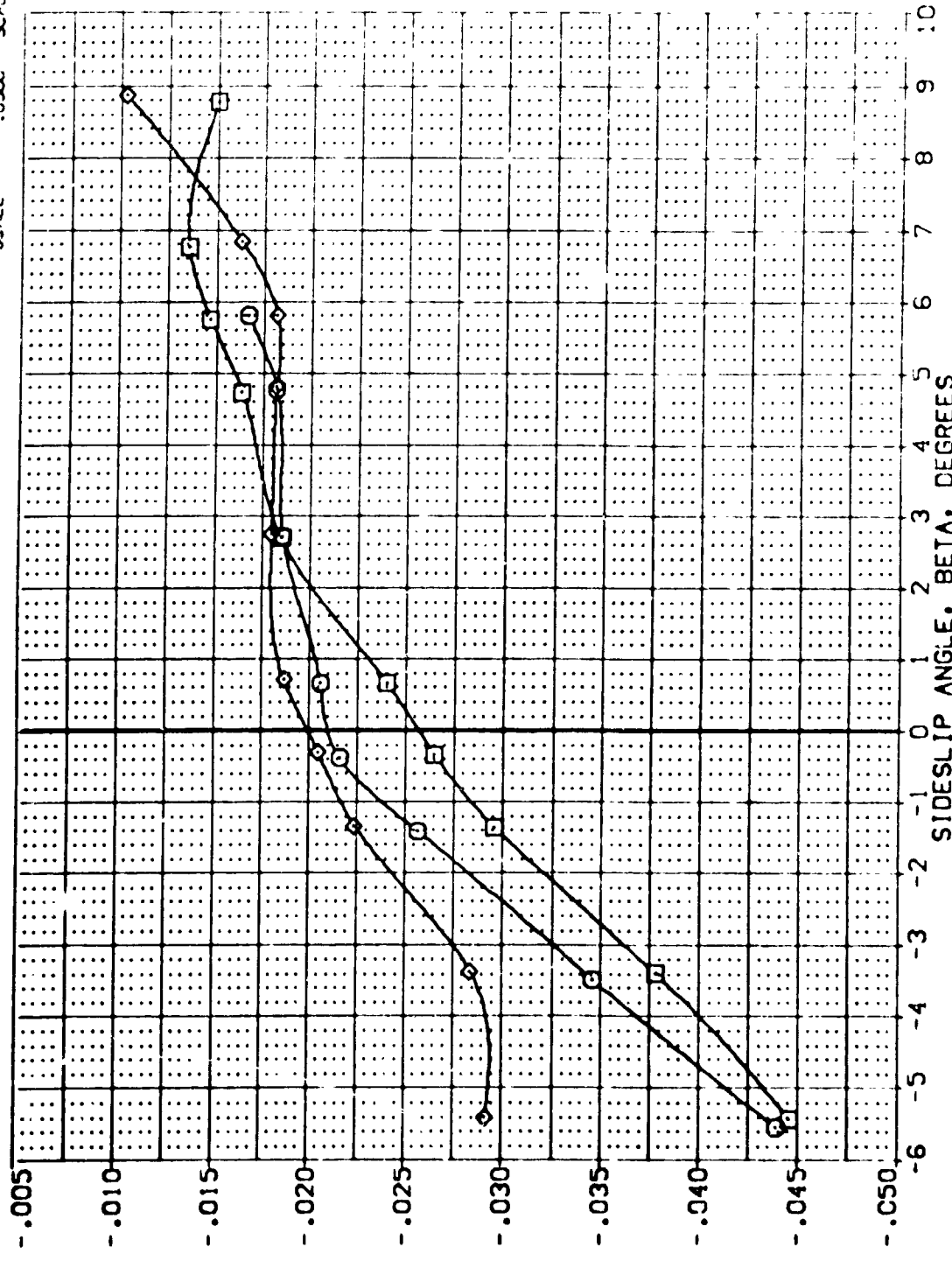


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (B)MACH = 2.00 PAGE 500



DATA SET SYMBO... CONFIGURATION DESCRIPTION

[VERK035]	ARC 97-747	DA538	B	C	H	F	V1	V	NOM.	RV/L
[VERK036]	ARC 97-747	DA538	B	C	H	F	V1	V	NOM.	RV/L
[VERK037]	ARC 97-747	DA538	B	C	H	F	V1	V	NOM.	RV/L

ALPHA RUDDER BDF LAP SPOBRK

.000	-10.000	-11.700	75.000
10.000	-10.000	-11.700	75.000
20.000	-10.000	-11.700	75.000

REFERENCE INFORMATION

SREF	2.4210	SO.FT.
LREF	14.2442	
BREF	28.1004	
YMRP	37.3010	
ZMRP	.0000	
SCALE	11.2500	
SCALE	.0300	

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

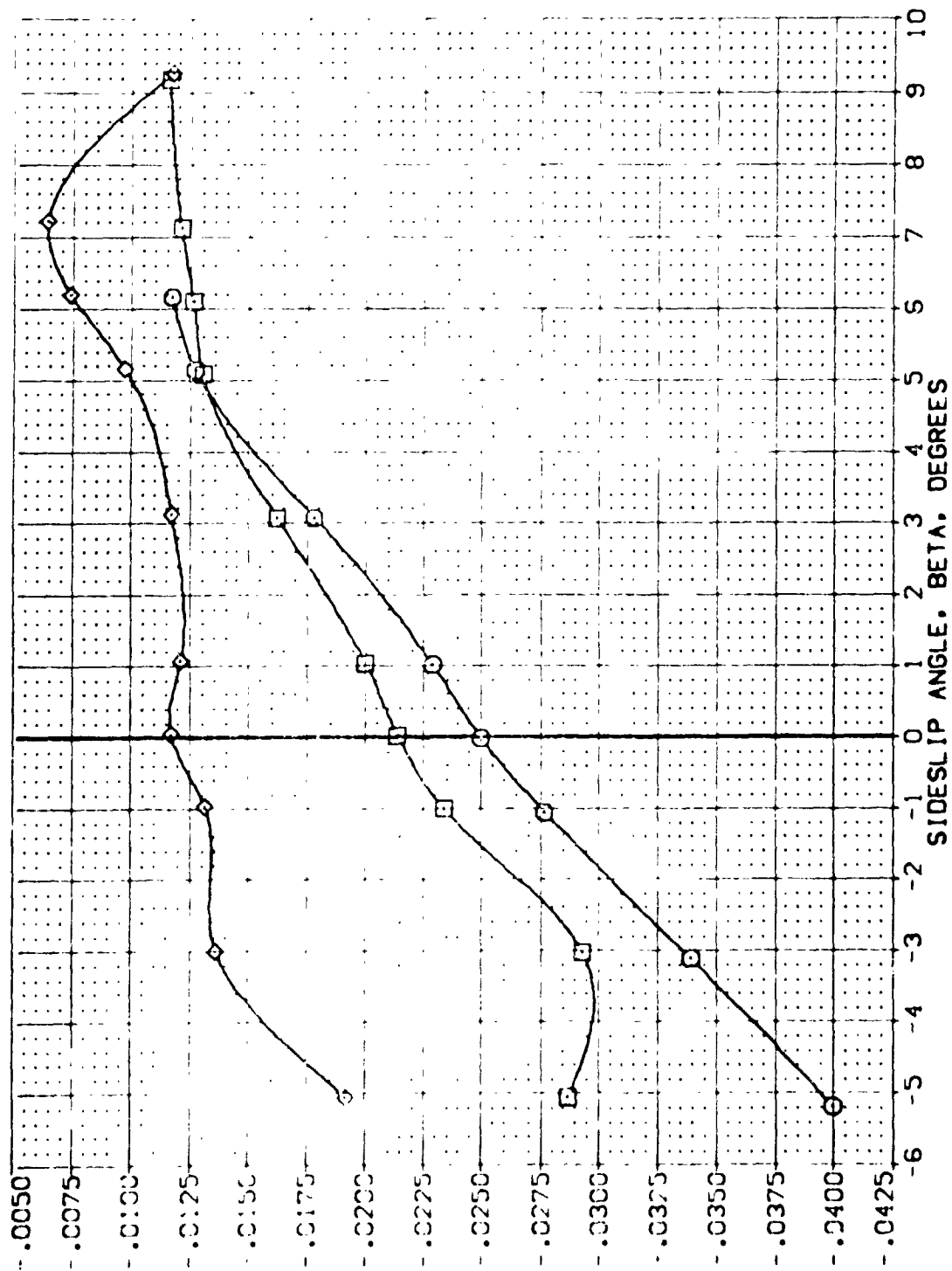


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (A)MACH = 1.60

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(VE-025)	ARC 97-747	CA-538	B	C	M	F	A	V	100%	RM/L	SPEED	14.4210	50. FT.
(VE-026)	ARC 97-747	CA-538	B	C	M	F	A	V	100%	RM/L	REF	14.7440	50. FT.
(VE-027)	ARC 97-747	CA-538	B	C	M	F	A	V	100%	RM/L	SPD	28.1004	50. FT.
											YMRD	32.3000	50. FT.
											ZMRD	11.2000	50. FT.
											SCALE	10.000	50. FT.

LOWER LEFT SPLOD BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

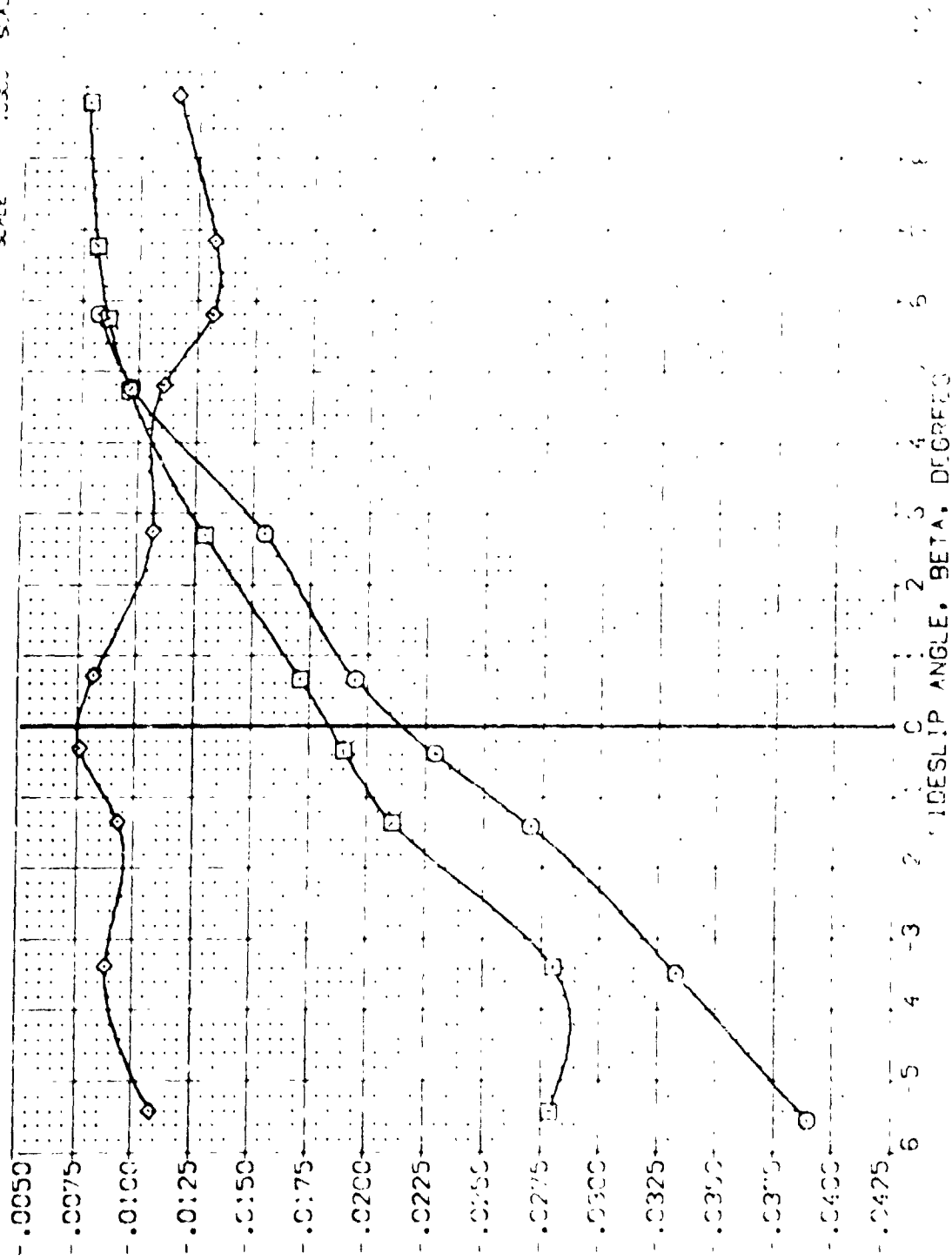


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBARK = 28 FEK
 (80)M/C - 2.00 PAGE 12



DATA SET SYMBOL: (YK036), (YK036), (YK037)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F VI V, ARC 97-747 OAS38 B C M F VI V, ARC 97-747 OAS38 B C M F VI V

NON. RN/L: V, V, V

ALPHA: .000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF 2.4210 SQ. FT., LREF 14.2410 IN., BREF 28.1004 IN., XMRP 32.3010 IN., YMRP .0000 IN., ZMRP 11.2500 IN., SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

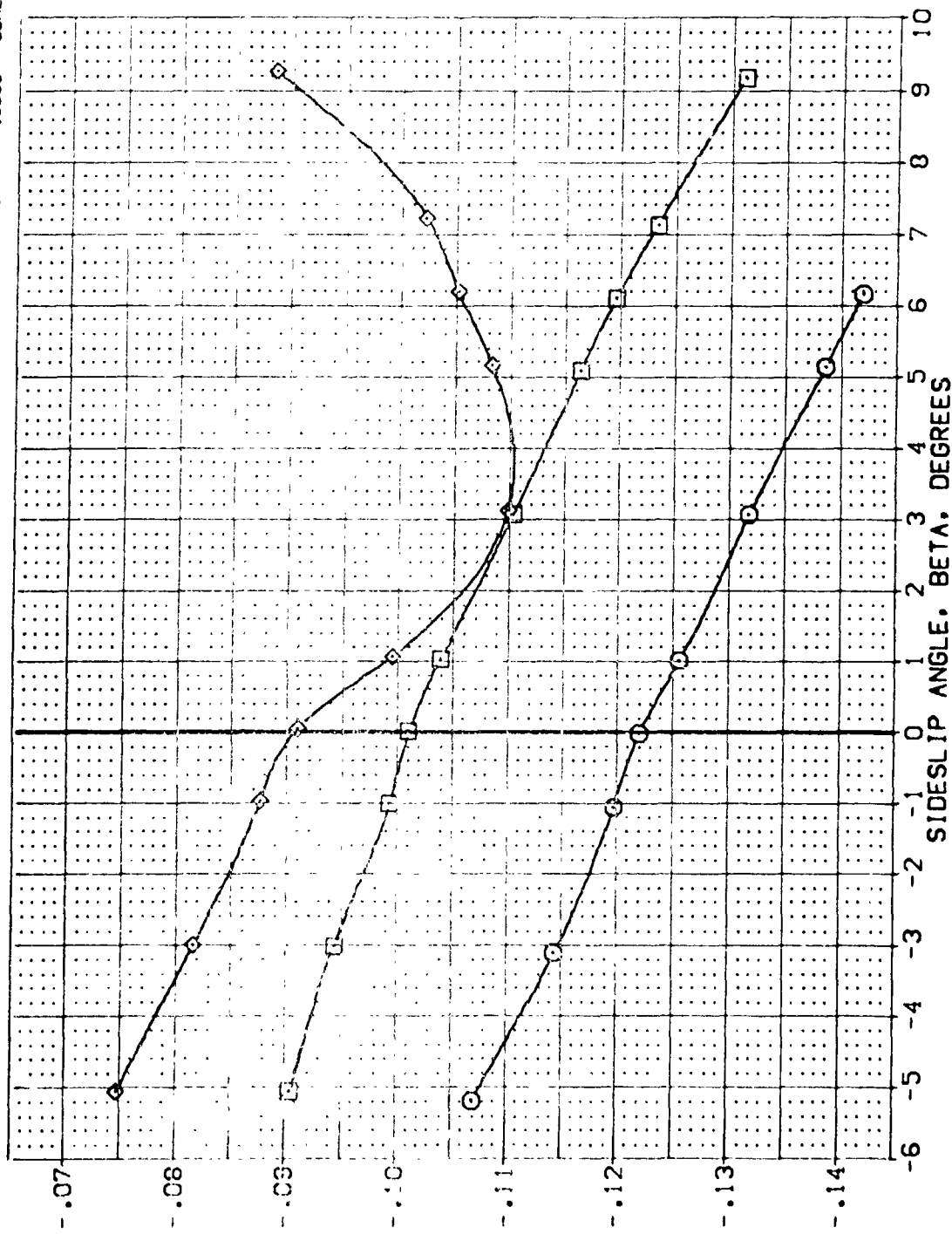


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

(A)MACH = 1.60

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	ROFLAP	SPOBRK	REFERENCE INFORMATION
{ YEK035 }	ARC 97-747 DAS38 B C M F V V	.000	-10.000	-11.700	25.000	SREF 2.4710 50. FT.
{ YEK036 }	ARC 97-747 DAS38 B C M F V V	10.000	-10.000	-11.700	25.000	LREF 14.2440
{ YEK037 }	ARC 97-747 DAS38 B C M F V V	20.000	-10.000	-11.700	25.000	BREF 28.1004
						XMRP 32.3010
						YMRP .0000
						ZMRP 11.2500
						SCALE .0300

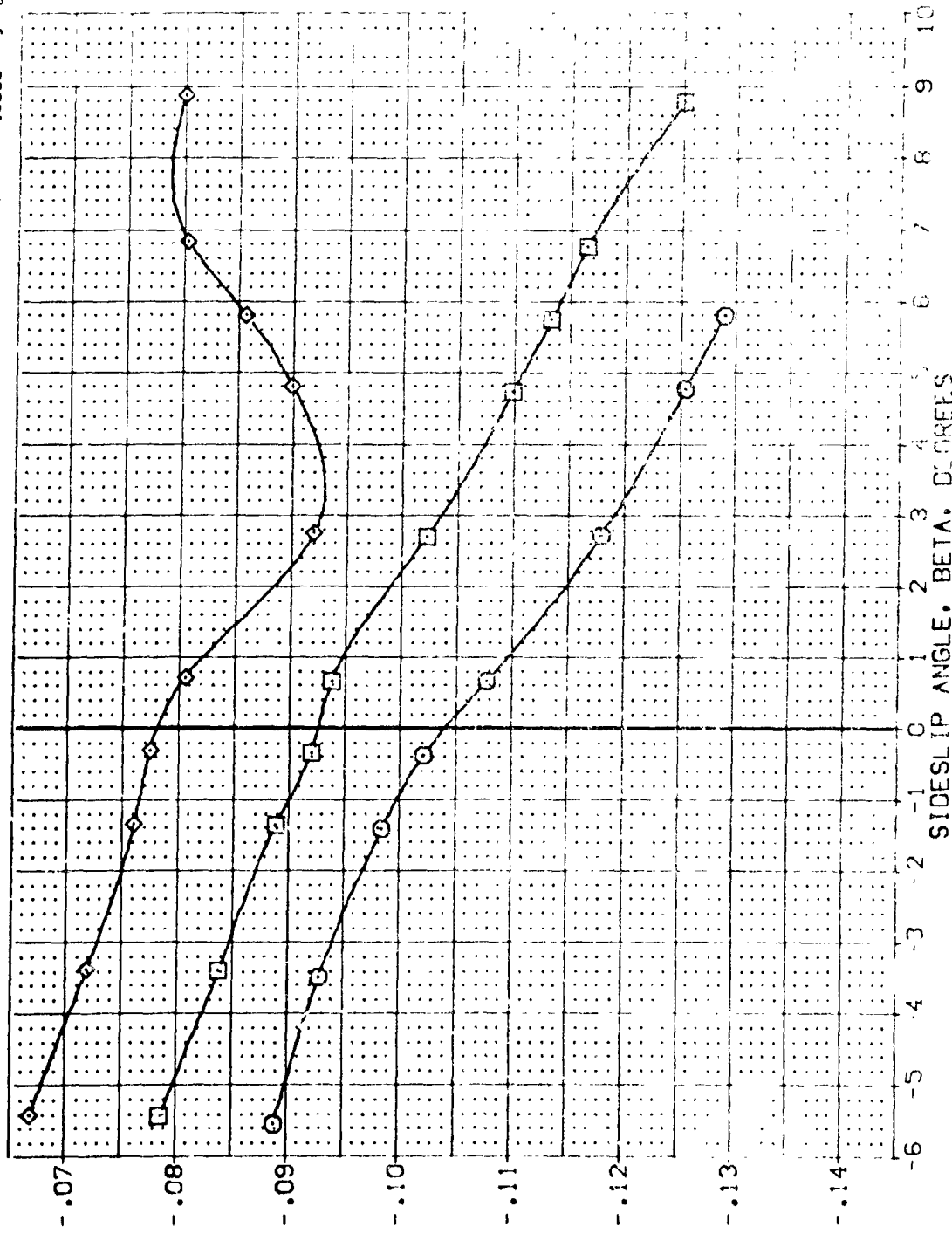


FIG. 47 RUDDER PITCH HINGEMOMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
 (B₀ MACH = 2.00) PAGE 504



DATA SET SYMBOL: [YKQ35] [YKQ36] [YKQ37]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F V I V NON: RN/L; ARC 97-747 CAS38 B C M F V I V NON: RN/L; ARC 97-747 CAS38 B C M F V I V NON: RN/L

ALPHA: .000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF: 2.4210 SQ. FT.; LREF: 14.2440 IN.; BREF: 28.1004 IN.; XMRP: 32.3010 IN.; YMRP: .0000 IN.; ZMRP: 11.2500 IN.; SCALE: .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

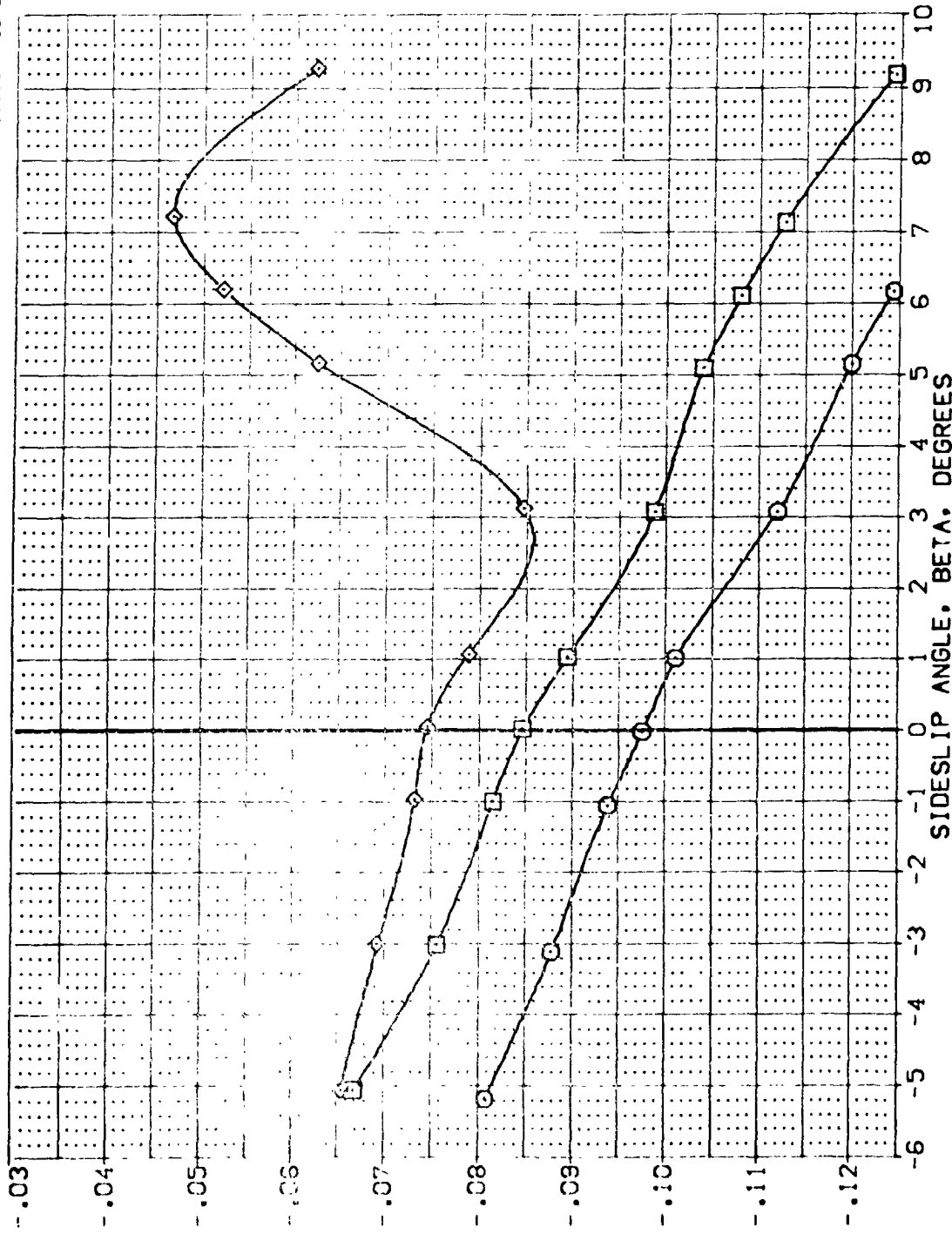


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.

DATA SET SYMBOL: [YK036], [YK036], [YK037]

CONFIGURATION DESCRIPTION: ARC 97-747 GAS38 B C M F V I V, ARC 97-747 GAS38 B C M F V I V, ARC 97-747 GAS38 B C M F V I V

NON: RN/L, NON: RN/L, NON: RN/L

ALPHA: 0.000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 25.000, 25.000, 25.000

REFERENCE INFORMATION: SREF 2.4210, LREF 14.2440, BREF 28.1004, XMRP 32.3010, YMRP .0000, ZMRP .0000, SCALE 11.2500, .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

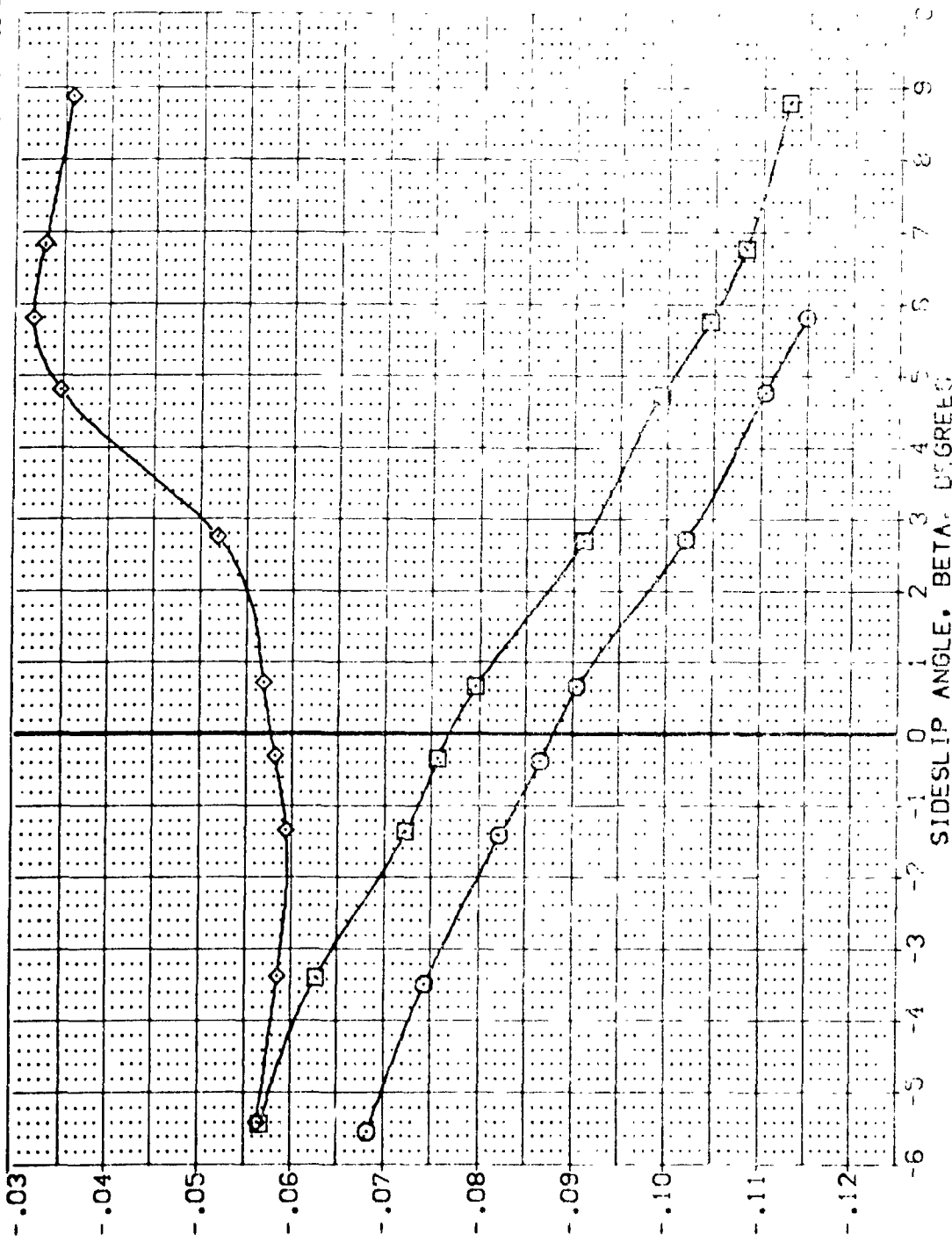


FIG. 47 RUDDER PANEL HINGEMENTS VERSUS ANGLE OF ATTACK, SPEEDBRAKE = 25 DEG.
(B)MACH = 2.00

(DEK032)

ARC 97-747 0A53B B C M F W I V NOM. RN/L

SYMBOL
○
□
◇

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 1.600
ELEVON .000
BDFLAP -11.700
ELEV-L .000

BETA .000
AILRON .000
SPOBRK 55.000
ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SQ.FT.
LREF 14.2440
BREF 28.1004
YMRP 32.3010
ZMRP .0000
SCALE 11.2500
SCALE .0300

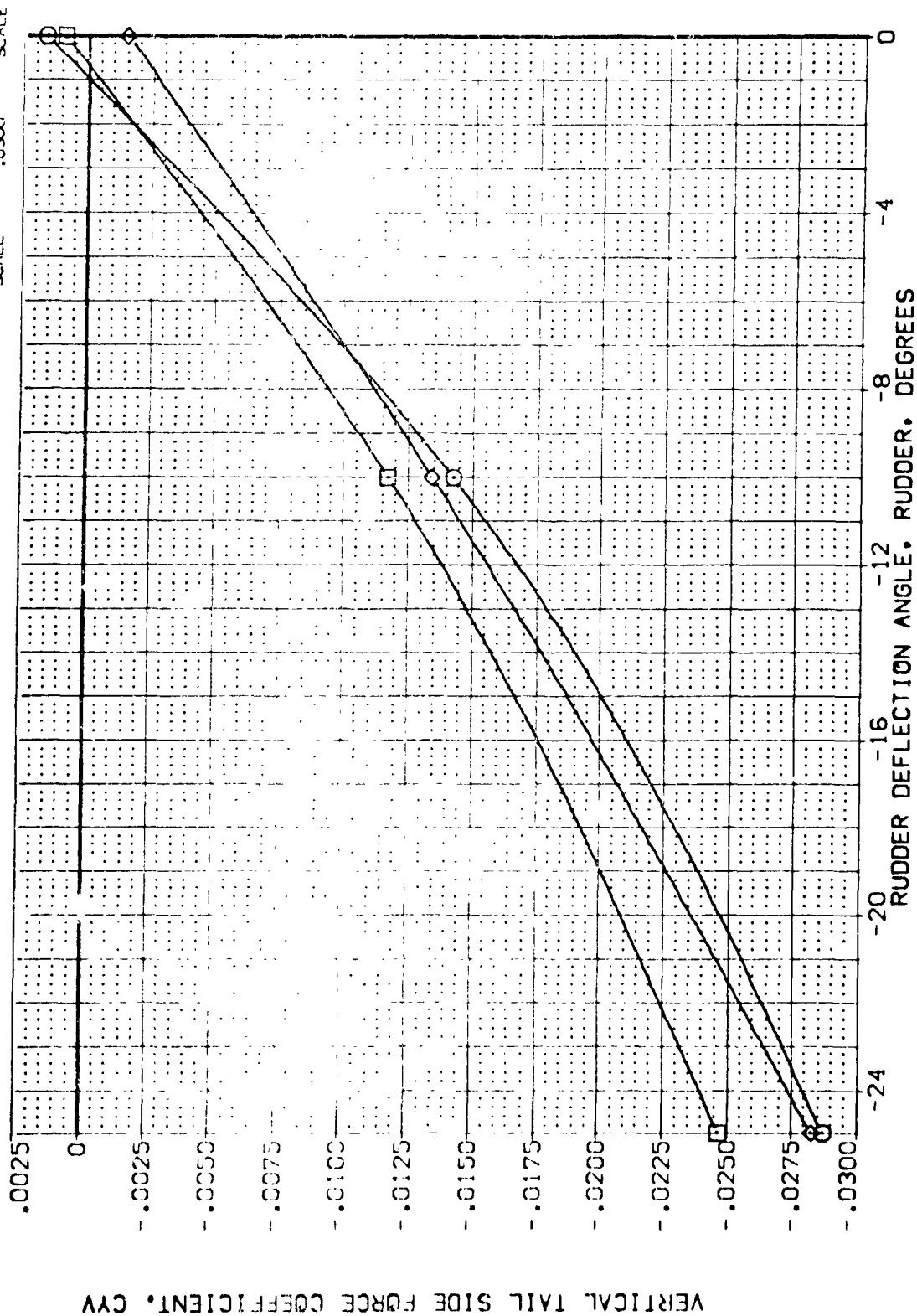


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 OA53B B C M F W1 V NOM. RN/L (DEK032)

SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

MACH
 2.000

PARAMETRIC VALUES
 BETA .000
 AILRON .000
 SPOBRK 56.000
 ELEV-L .000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SO. FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300

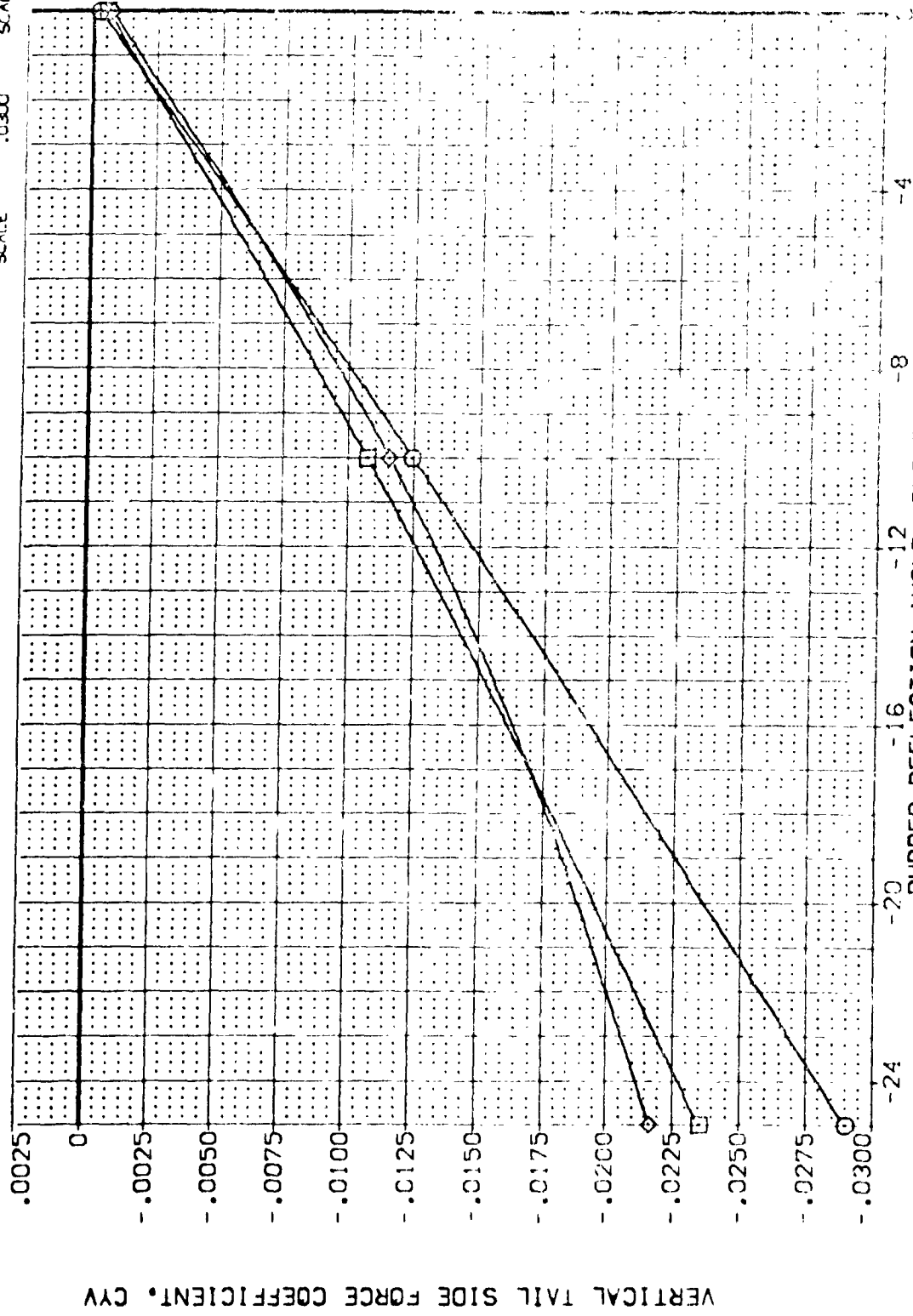


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 CAS3B B C M F W I V NOM. RN/L (DEK032)

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

PARAMETRIC VALUES
 MACH 1.600 BETA .000
 ELEVON .000 AILRON .000
 BOFLAP -11.700 SPOBRK 55.000
 ELEV-L .000 ELEV-R .000

SYMBOL
 ○ □ ◇

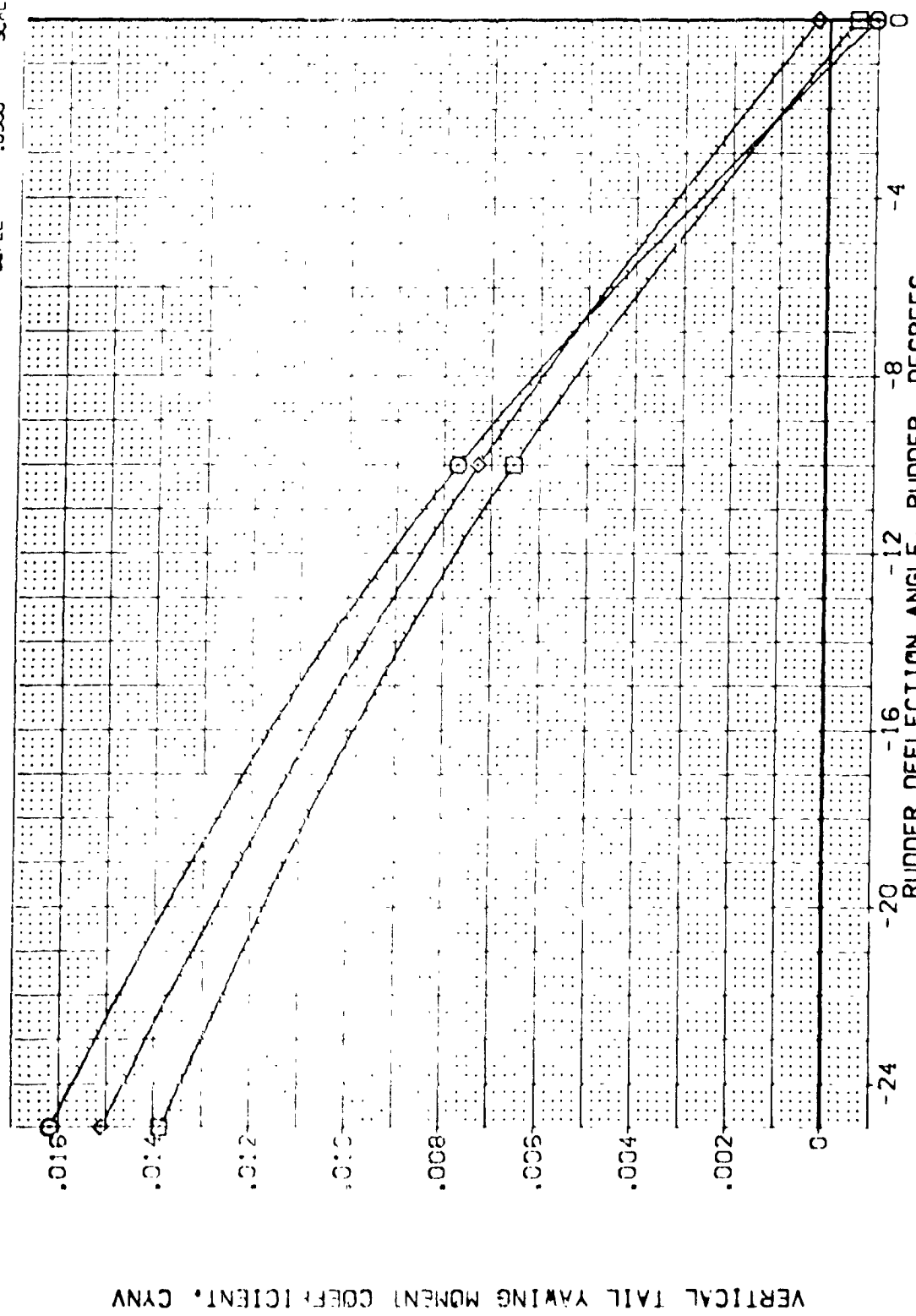
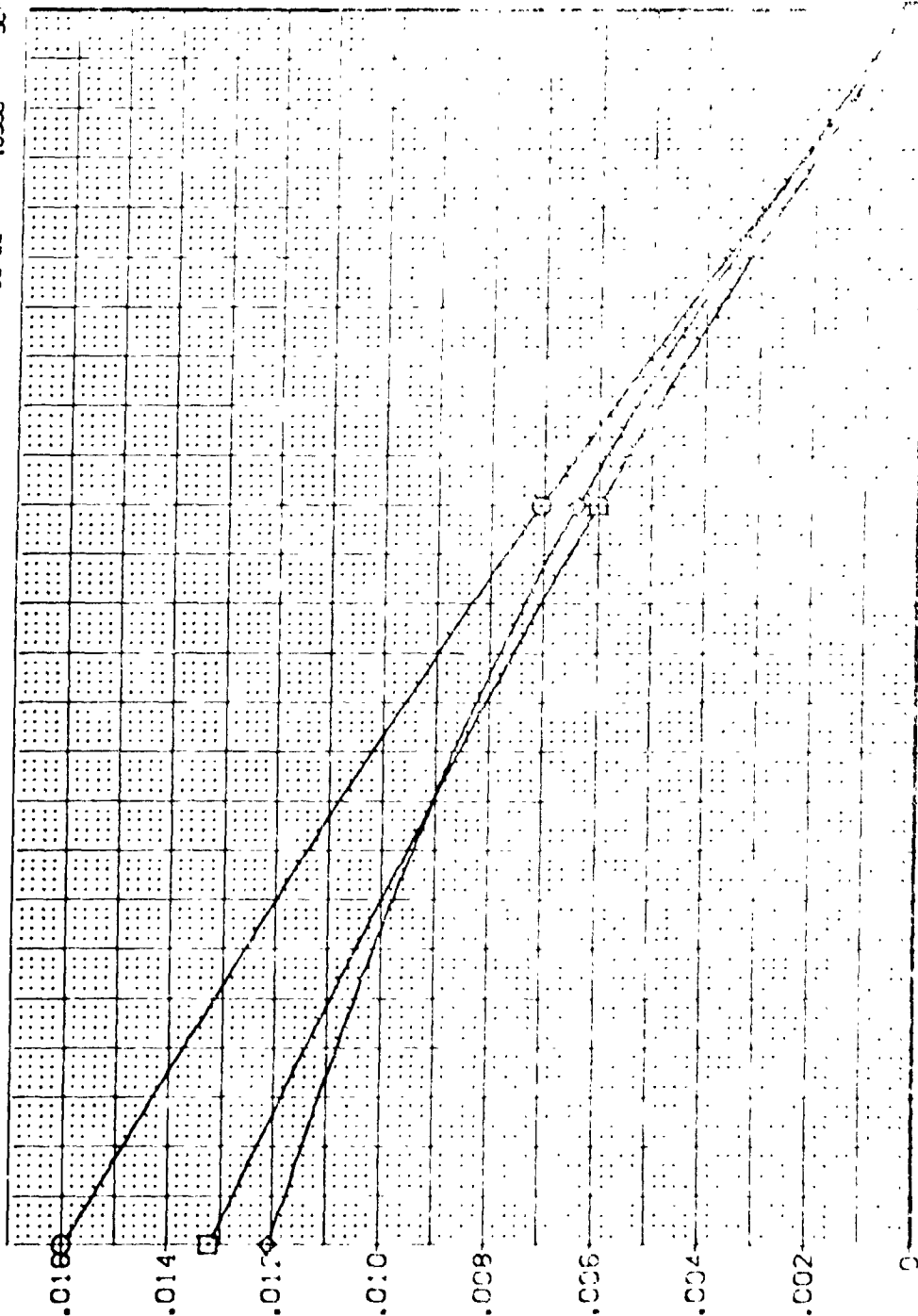


FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

SYMBOL
 ○ □ ◇

ALPHA .000 MACH 2.000 BETA .000
 10.000 ELEVON .000 AILRON .000
 20.000 BOFLAP -11.700 SPDBRK 95.000
 ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300



VERTICAL TAIL YAWING MOMENT COEFFICIENT, CYN

24 -20 -16 -12
 RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 48 EFFECT OF RUDDER DEFLECTION ON VERTICAL TAIL, SPEEDBRAKE = 55 DEGREES

ARC 97-747 0A533 B C M F W1 V NOM. RN/L (EEK032)

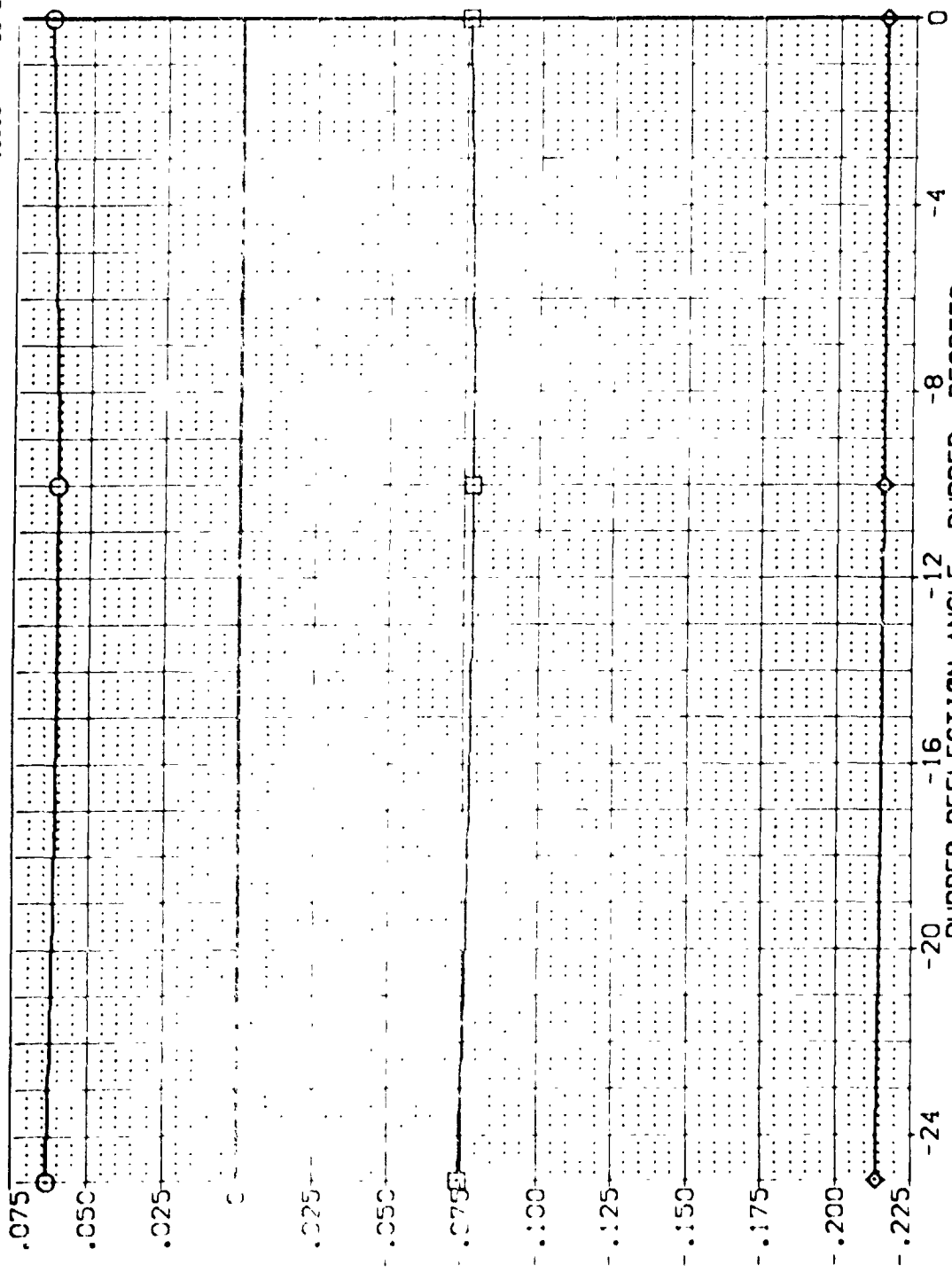
SYMBOL

ALPHA
 .000
 10.000
 20.000

PARAMETRIC VALUES
 MACH 1.600
 ELEVON .000
 BOFLAP -11.700
 ELEV-L .000

BETA .000
 AILRON .000
 SPEEDRK 55.000
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, C_{HET}

FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMOMENT, SPEEDBRAKE = 55 DEG

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (EEK032)

SYMBOL

○ □ ◇

ALPHA

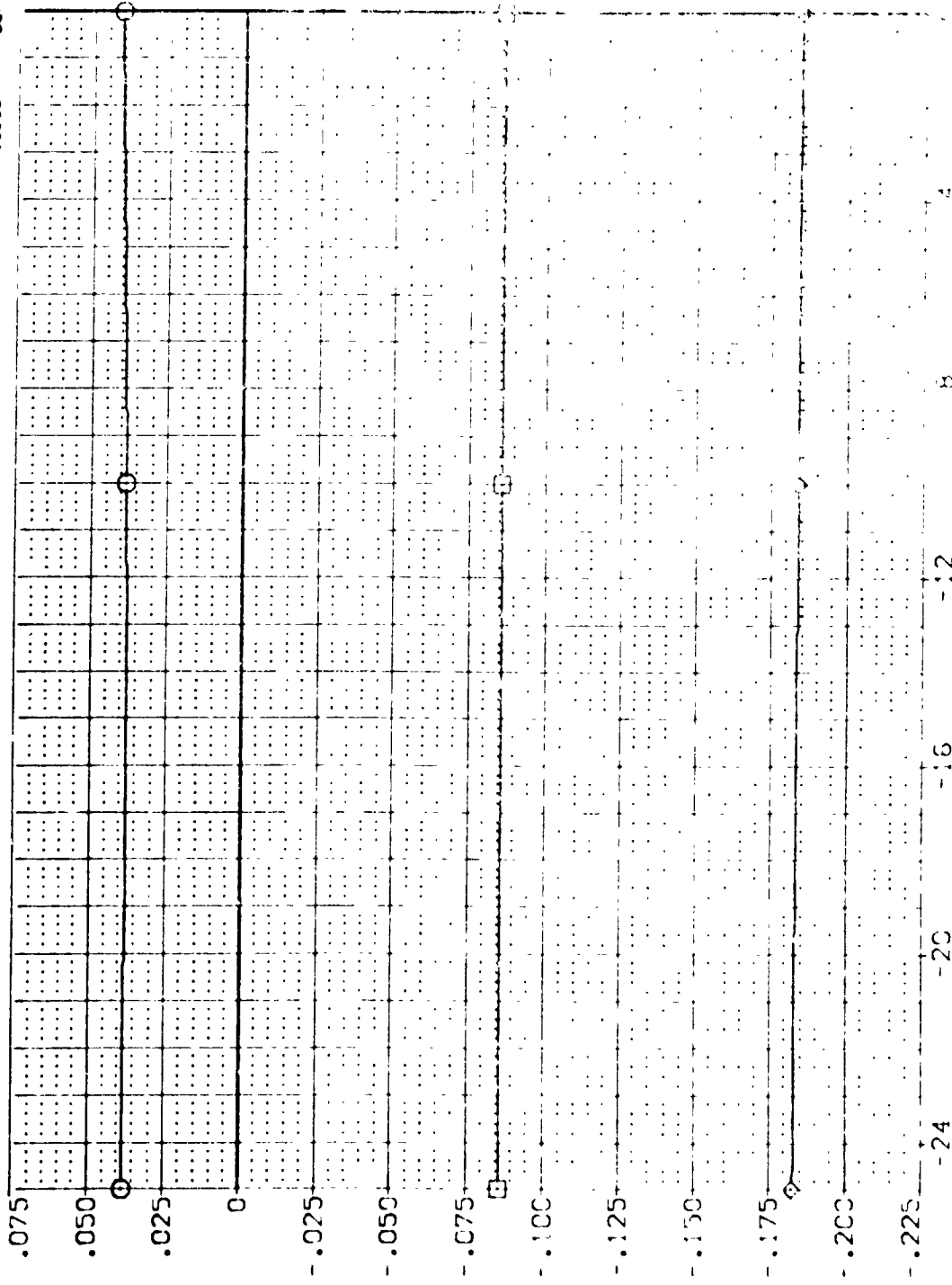
.000
10.000
20.000

PARAMETRIC VALUES

MACH 2.000 BETA .000
ELEVON .000 ALLRON .000
BDFLAP -11.700 SPEEDRK 55.000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION

SREF 2.4210 SQ. FT.
LREF 14.2440
BREF 28.1004
XMRP 32.3013
YMRP .0000
ZMRP 11.2500
SCALE .0300



TOTAL ELEVON HINGE MOMENT COEFFICIENT, CMET

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGE MOMENT, SPEEDBRAKE = 55 DEG



ARC 97-747 OA538 B C M F W1 V NOM. RN/L

(EKK032)

SYMBOL
 ○
 ◇

ALPHA
 .000
 20.000

MACH
 1.600

BETA
 .000

ALTRON
 .000

SPOBRK
 55.000

ELEV-L
 .000

ELEV-R
 .000

REFERENCE INFORMATION
 SQ. FT.
 SREF 2.4210
 LREF 14.2440
 BREF 28.0004
 XMRP 32.3010
 YMRP .0000
 ZMRP 11.2500
 SCALE .0300

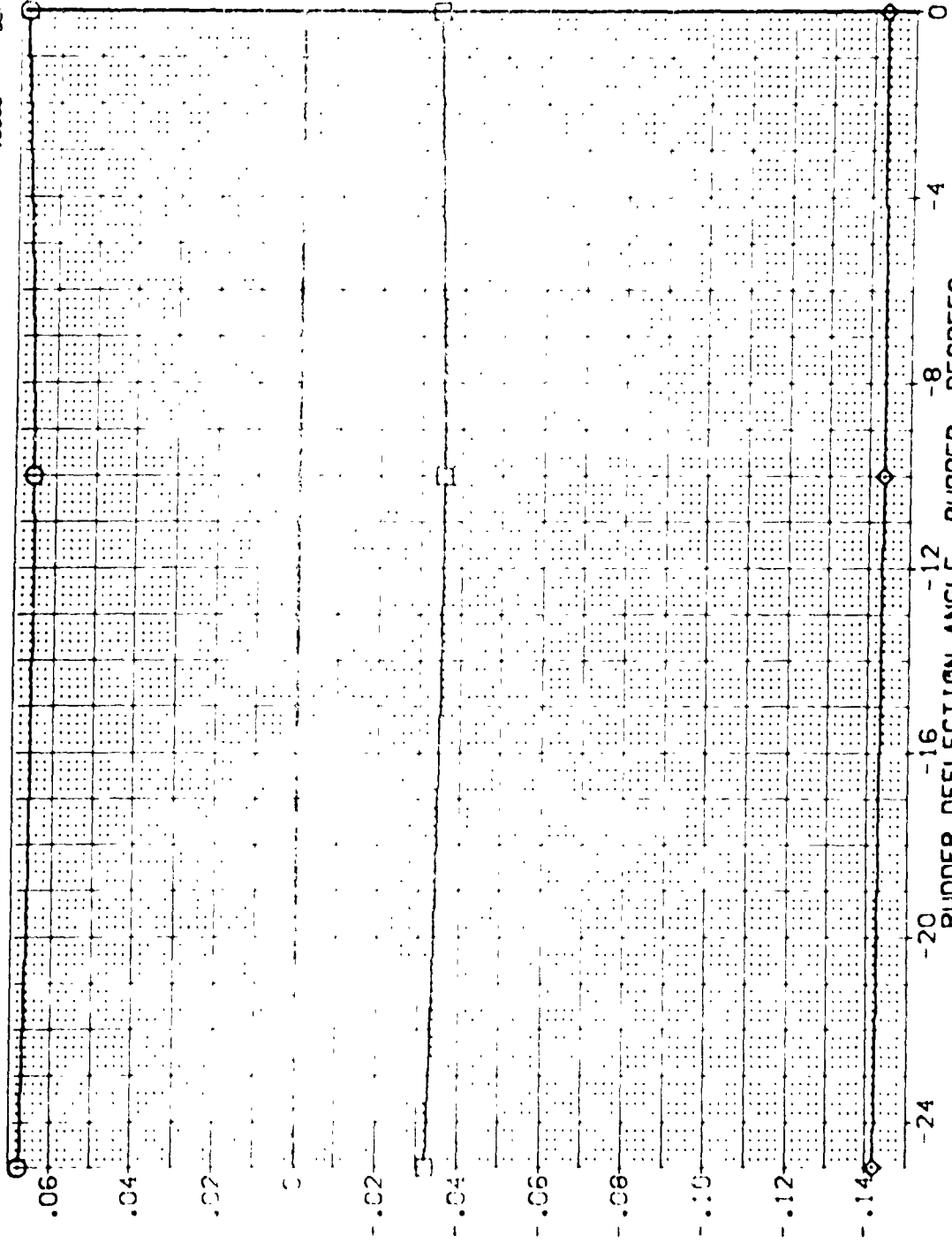


FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 55 DEG
 PAGE 513

ARC 97-747 0A538 B C M F W1 V NOM. RN/L (EEK032)

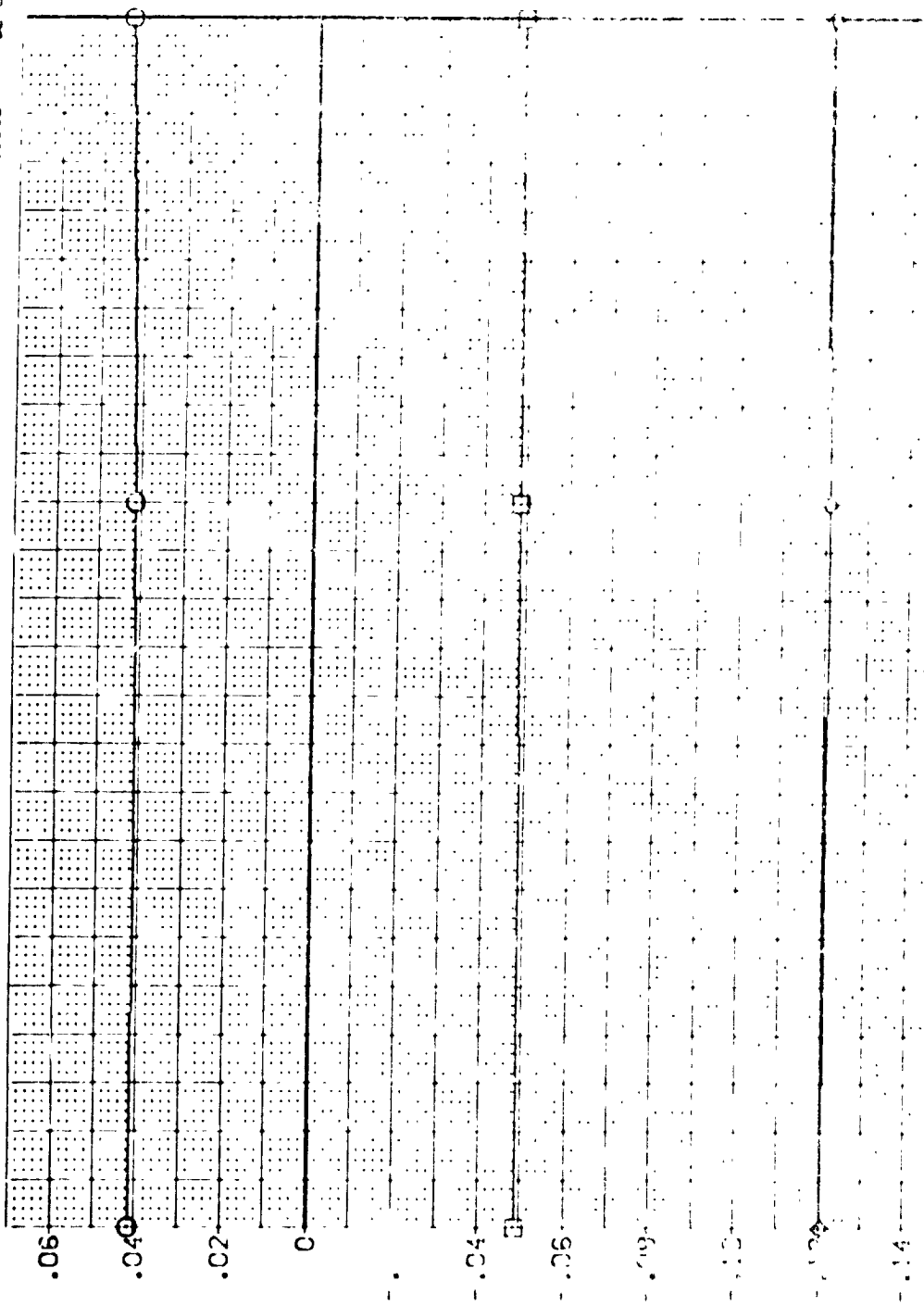
SYMBOL
 ○ □

ALPHA
 .000
 10.000
 20.000

MACH
 ELEVON
 BDFLAP
 ELEV-L

PARAMETRIC VALUES
 2.000 BETA .000
 .000 ALLRON .000
 -11.700 SPOBRK 55.000
 .000 ELEV-R .000

REFERENCE INFORMATION
 SC.FT.
 SREF 2.4210
 LREF 14.2440
 BREF 28.1004
 XMRP 32.3010
 YMRP .0000
 ZMRP .0000
 SCALE 11.5300



INBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CHEI

RUDDER DEFLECTION ANGLE, RUDR, DEGREES

FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 55 DEG



(EEK032)

ARC 97-747 OAS38 B C M F W1 V NOM. RN/L

SYMBOL

ALPHA	.000
10.000	MACH
20.000	ELEVON
	BOFLAP
	ELEV-L

PARAMETRIC VALUES	
1.600	BETA
.000	AILERON
-11.700	SPEEDBRK
.000	ELEV-R

.000	
.000	
55.000	
.000	

REFERENCE INFORMATION	
2.4210	SO. FT.
14.2440	N.
28.1004	N.
32.3010	N.
.0000	N.
11.2500	N.
.0300	SCALE

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, C_{HED}

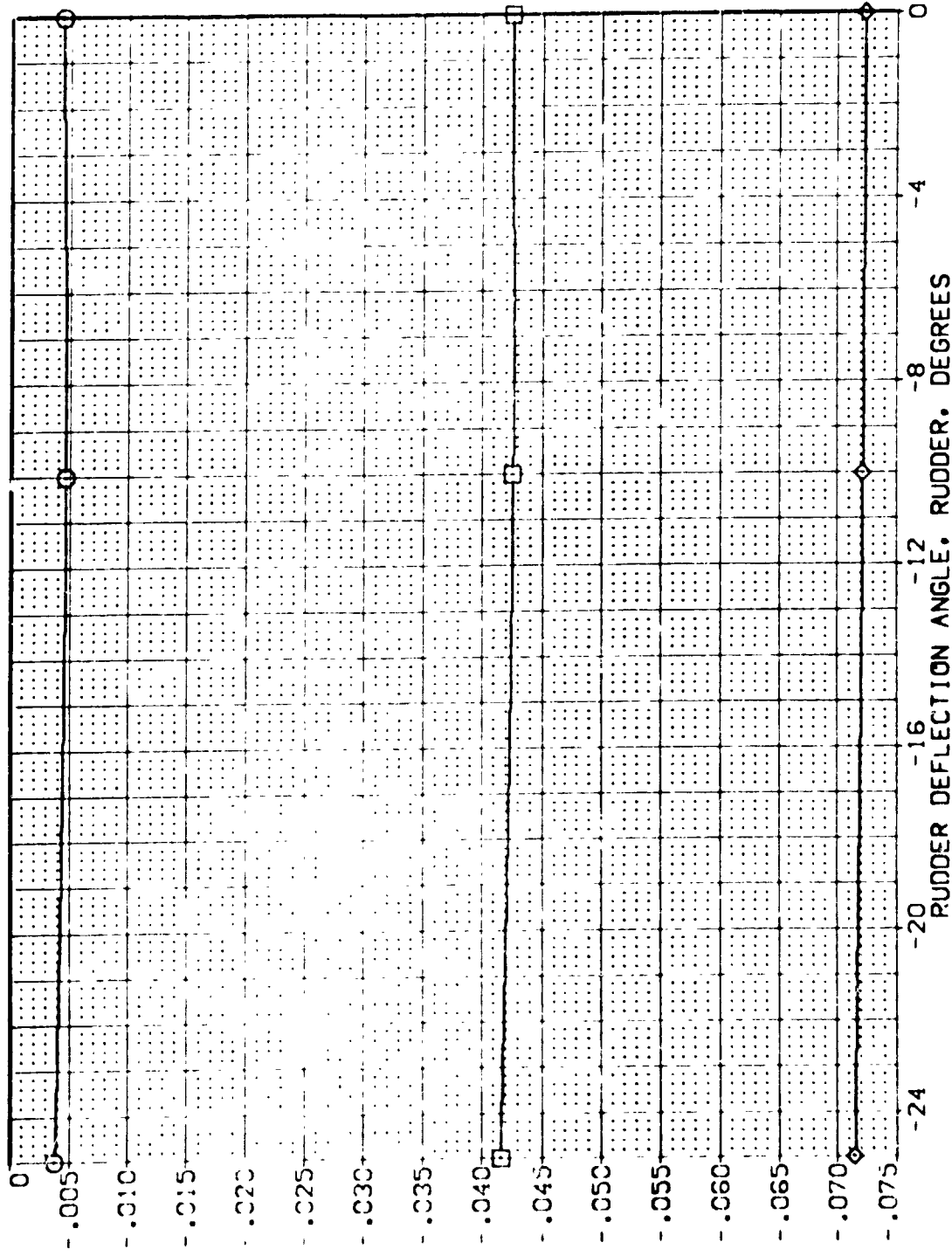


FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 55 DEG

ARC 97-747 0A53B B C M F W I V NOM. RN/L (EEK032)

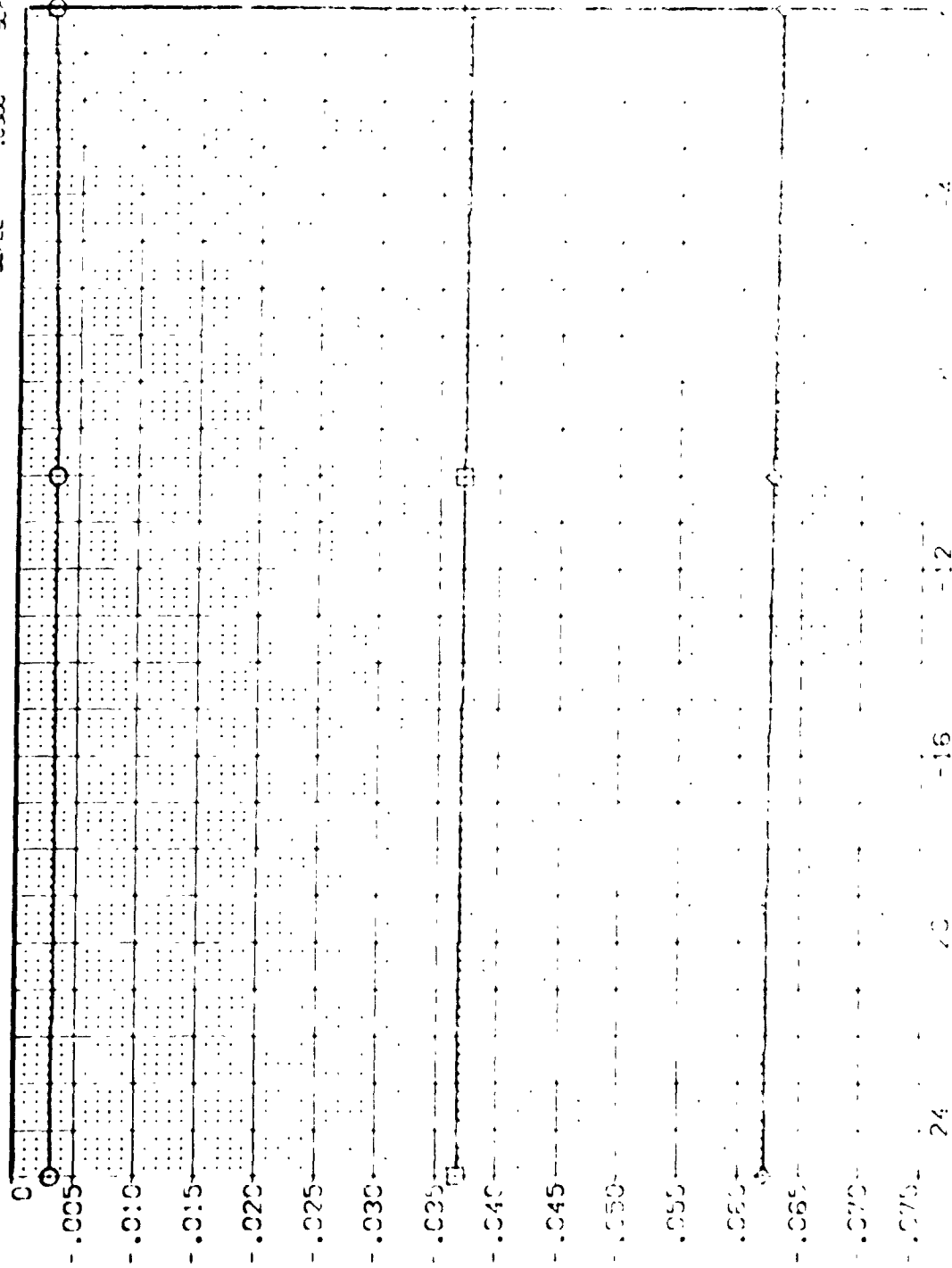
SYMBOL
○ ○
○ ○

ALPHA
.000
10.000
20.000

PARAMETRIC VALUES
MACH 2.000 BETA .000
ELEVON .000 ALLRON .000
BDFLAP -11.700 SPOBRK 56.000
ELEV-L .000 ELEV-R .000

REFERENCE INFORMATION
SREF 2.4210 SCALE
LREF 14.2440
BREF 28.4880
XMAP 32.7320
YMAP 11.2500
ZMAP 11.2500
SCALE

OUTBOARD ELEVON PANEL HINGE MOMENT COEFFICIENT, CMO



RUDDER DEFLECTION ANGLE, RUDDER, DEGREE

FIG. 49 EFFECT OF RUDDER DEFLECTION ON ELEVON HINGEMENT, SPEEDBRAKE = 05 DEG

ARC 97-747 OAS3B B C M F W1 V NQM. RN/L (EEK032)

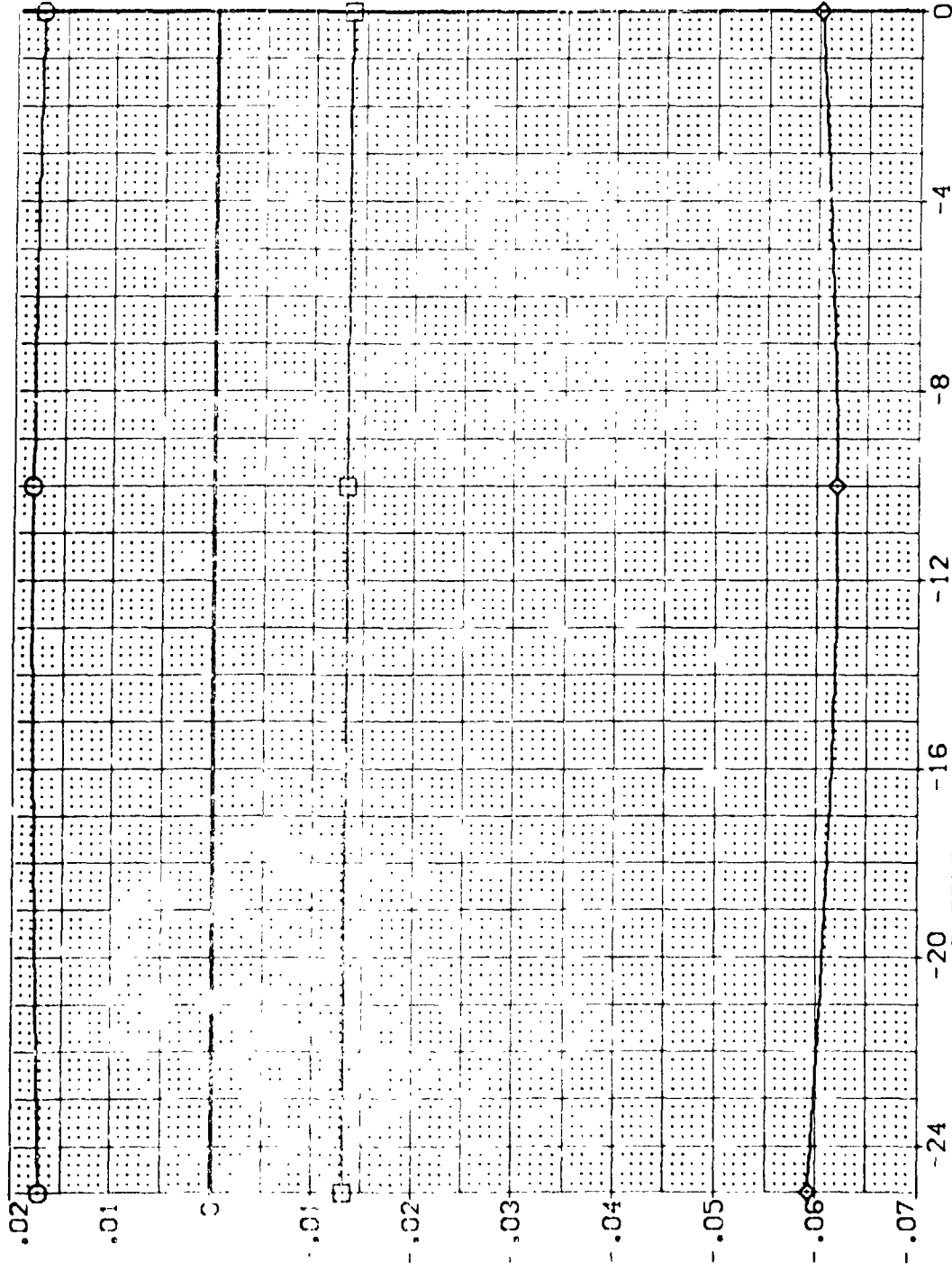
SYMBOL
 ○
 □
 ◇

ALPHA .000
 10.000
 20.000

MACH
 ELEVON
 BOFLAP
 ELEV-I

PARAMETRIC VALUES
 BETA .000
 AILRON .000
 SPOBRK -11.700
 ELEV-R .000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300



BODYFLAP HINGE MOMENT COEFFICIENT, C_{HBF}

FIG. 50 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMOMENT, SPEEDBRAKE= 55 DEG

(EEK032)

ARC 97-747 0A538 B C M F W1 V NOM. RN/L

SYMBOL
 ○ □ ◇

ALPHA
 .000
 10.000
 20.000

MACH
 2.000
 .000
 .000

ELEVON
 .000
 .000
 .000

BDFLA
 -11.700
 .000
 .000

ELEV-R
 .000
 .000
 .000

PARAMETRIC VALUES
 BETA .000
 AILRON .000
 SPOBRK 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ. FT.
 LREF 14.2440 N.
 BREF 28.1004 N.
 XMRP 32.3010 N.
 YMRP .0000 N.
 ZMRP 11.2500 N.
 SCALE .0300



BODYFLAP HINGE MOMENT COEFFICIENT, CHBF

RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG. 50 EFFECT OF RUDDER DEFLECTION ON BODYFLAP HINGEMENT. SPEEDBRAKE= 55 DEG



DATA SET SYMBOL
 [YFK012]
 [YFK013]
 [YFK014]

CONFIGURATION DESCRIPTION
 ARC 97-747 GAS38 B C M F VI V
 ARC 97-747 GAS38 B C M F VI V
 ARC 97-747 GAS38 B C M F VI V

NON. RN/L
 NON. RN/L
 NON. RN/L

ALPHA
 .000
 10.000
 20.000

RUDDER
 .000
 .000
 .000

BDF LAP
 -11.700
 -11.700
 -11.700

SPOBRK
 55.000
 55.000
 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2140 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300 IN.

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

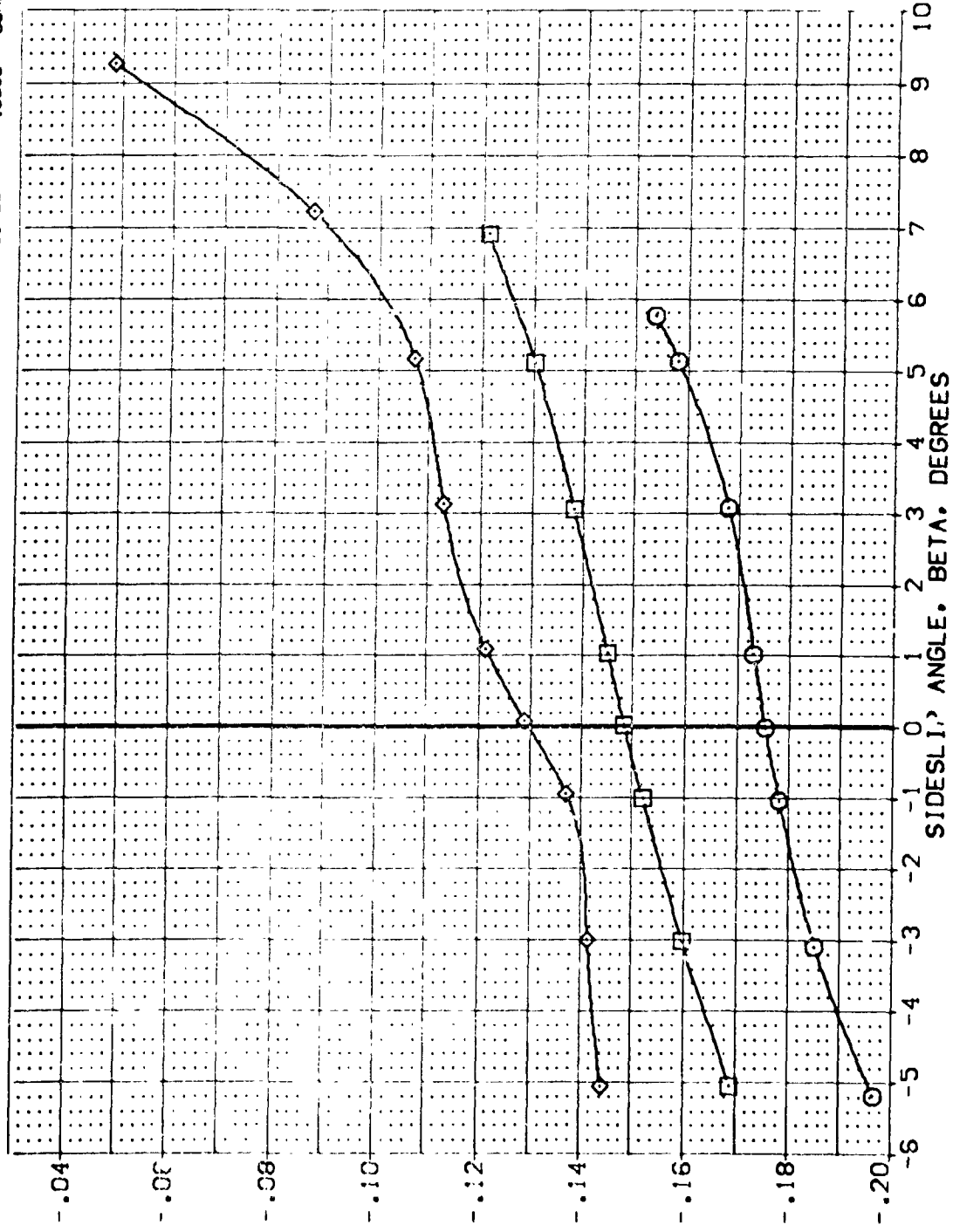


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60 PAGE 519

DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA RUDDER BOFLAP SPOBRK REFERENCE INFORMATION

{YER012}	ARC 97-747 CAS38 B C M F VI V	10.000	.000	-11.700	55.000	SREF	2.4210
{YER013}	ARC 97-747 CAS38 B C M F VI V	20.000	.000	-11.700	55.000	LREF	14.2440
{YER014}	ARC 97-747 CAS38 B C M F VI V		.000	-11.700	55.000	BREF	28.0000
						XMRP	32.3010
						YMRP	.0000
						ZMRP	.0000
						SCALE	11.2500
							N.
							SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MGMT COEFFICIENT, CHUL

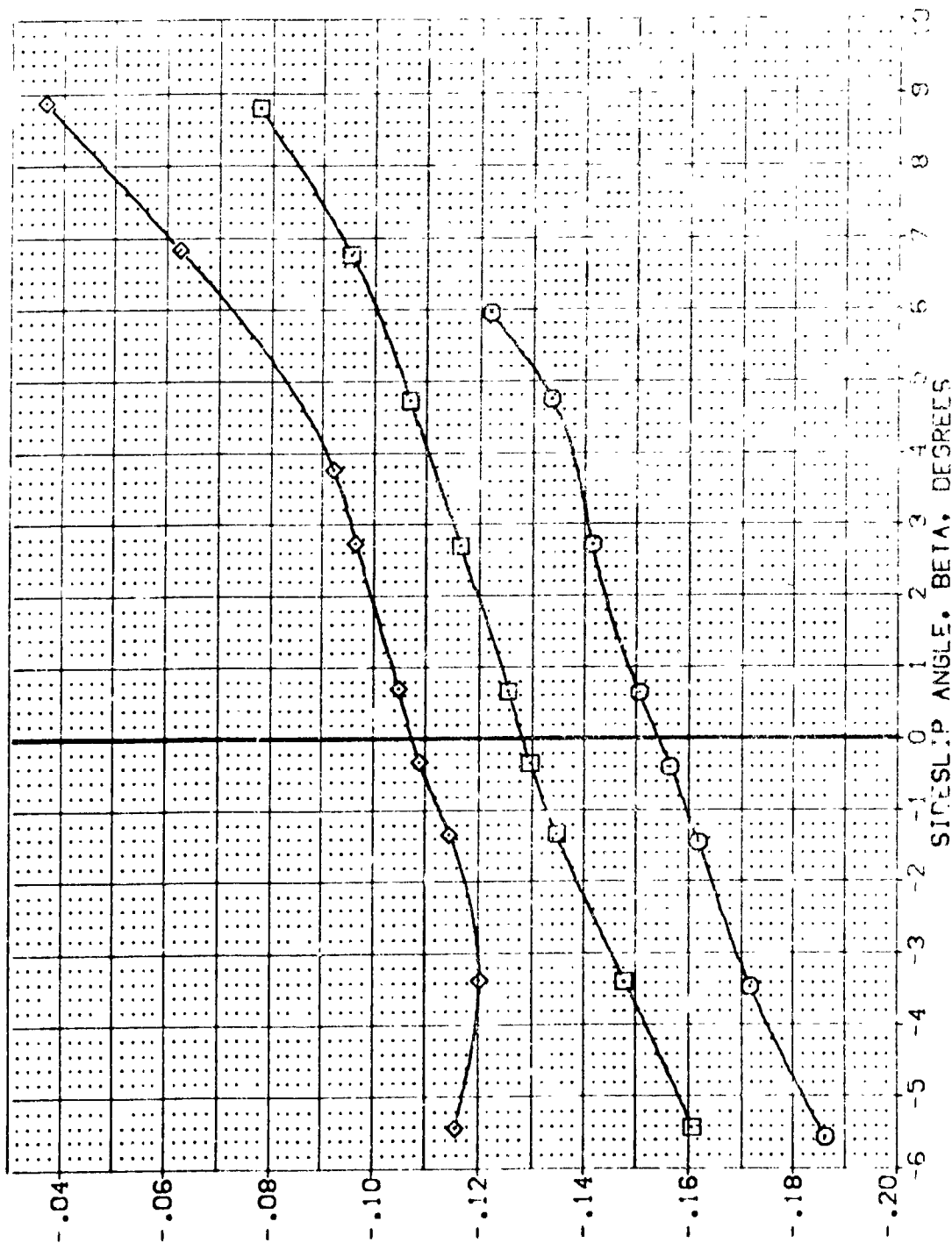


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00 PAGE 570



DATA SET SYMBOL: (YEQ012), (YEQ013), (YEQ014)

CONFIGURATION DESCRIPTION: ARC 97-747 DAS38 B C M F V I V, ARC 97-747 DAS38 B C M F V I V, ARC 97-747 DAS38 B C M F V I V

ALPHA: .000, 10.000, 20.000

RUDDER: .000, .000, .000

BDFLAP: -11.700, -11.700, -11.700

SPOBRK: S5.000, S5.000, S5.000

REFERENCE INFORMATION: SREF 2.4210 50.FT., LREF 14.2440 IN., BREF 28.1004 IN., XMRP 32.3010 IN., YMRP .0000 IN., ZMRP 11.2500 IN., SCALE .0300

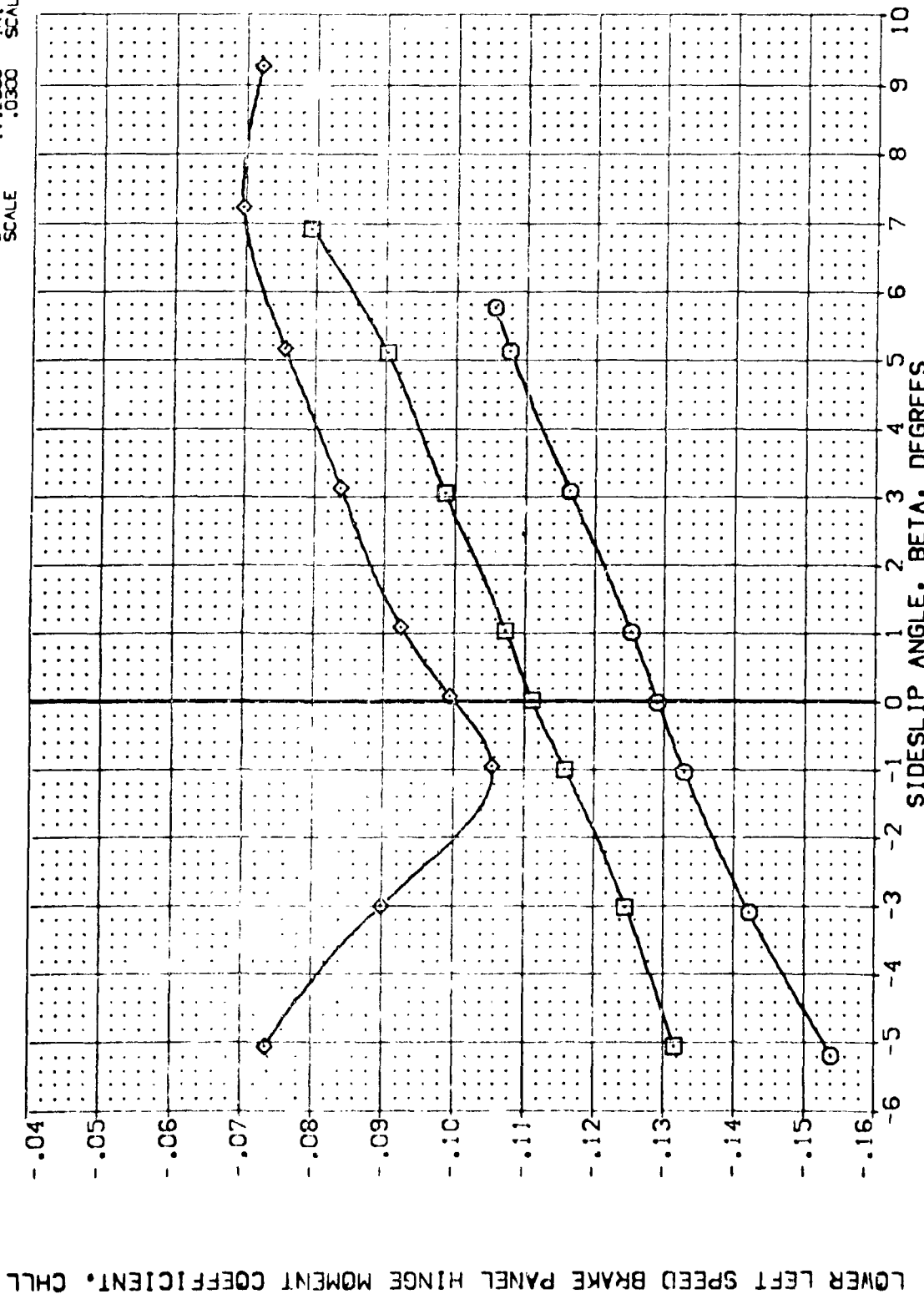


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60 PAGE 521

DATA SET SYMBOL: (YEM012), (YEM013), (YEM014)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F V1 V, ARC 97-747 OAS38 B C M F V1 V, ARC 97-747 OAS38 B C M F V1 V

ALPHA: .000, 10.000, 20.000

RUDDER: .000, .000, .000

BD-LAP: -11.700, -11.700, -11.700

SPEEDBRAK: 55.000, 55.000, 55.000

REFERENCE INFORMATION: SREF 2.4210 SC.F.F., LREF 14.2440 IN., BREF 28.1004 IN., XMRP 32.3010 IN., YMRP .0000 IN., ZMRP 11.2500 IN., SCALE .0300

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

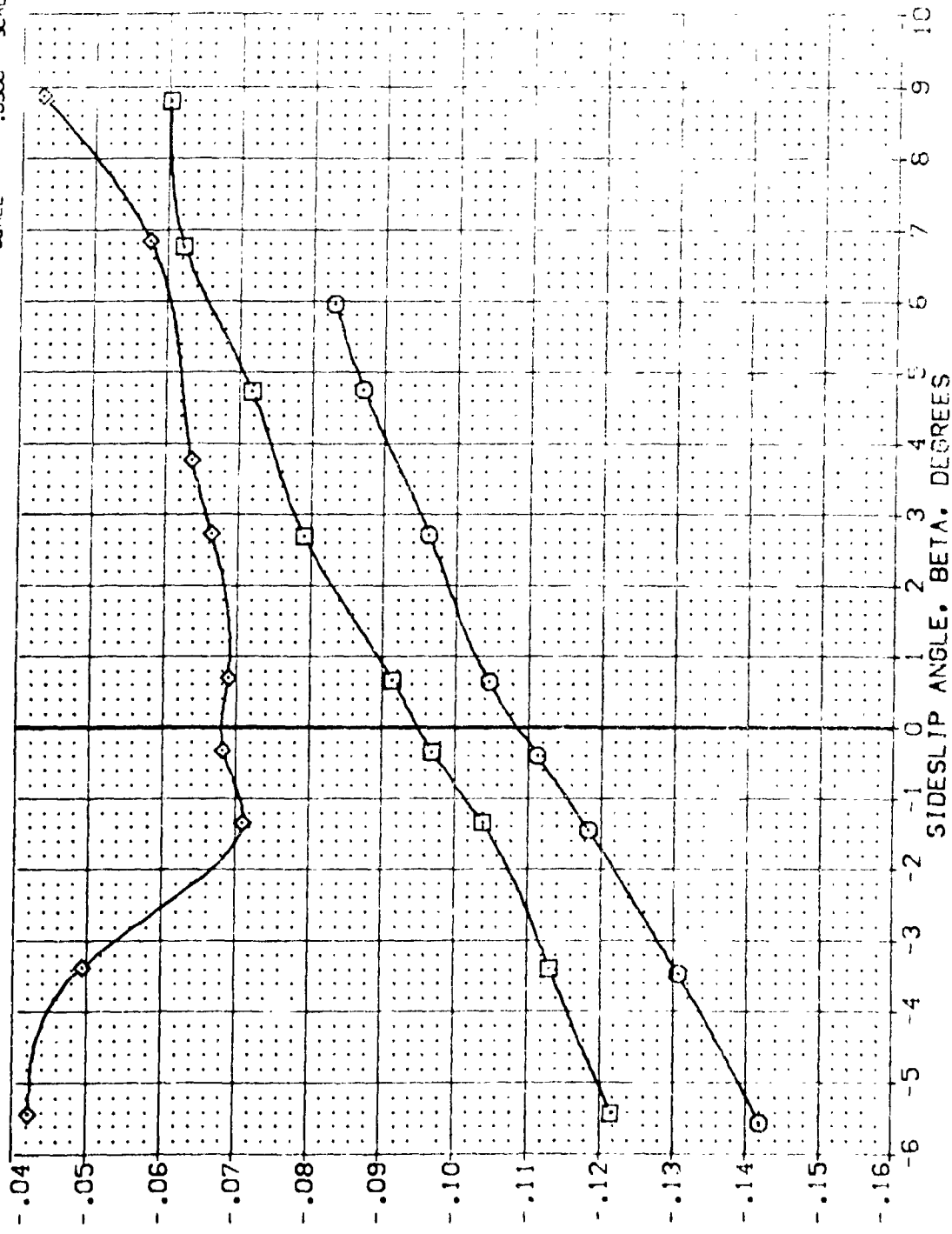


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00 PAGE 522



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
(YK012)	ARC 97-747 DA538 B C M F V I V	.000	.000	-11.700	55.000	SREF 2.4210
(YK013)	ARC 97-747 DA538 B C M F V I V	10.000	.000	-11.700	55.000	LREF 14.2440
(YK014)	ARC 97-747 DA538 B C M F V I V	20.000	.000	-11.700	55.000	BREF 28.1004
						XMRP 32.3010
						ZMRP .0000
						ZMRP 11.2500
						SCALE .0300
						SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

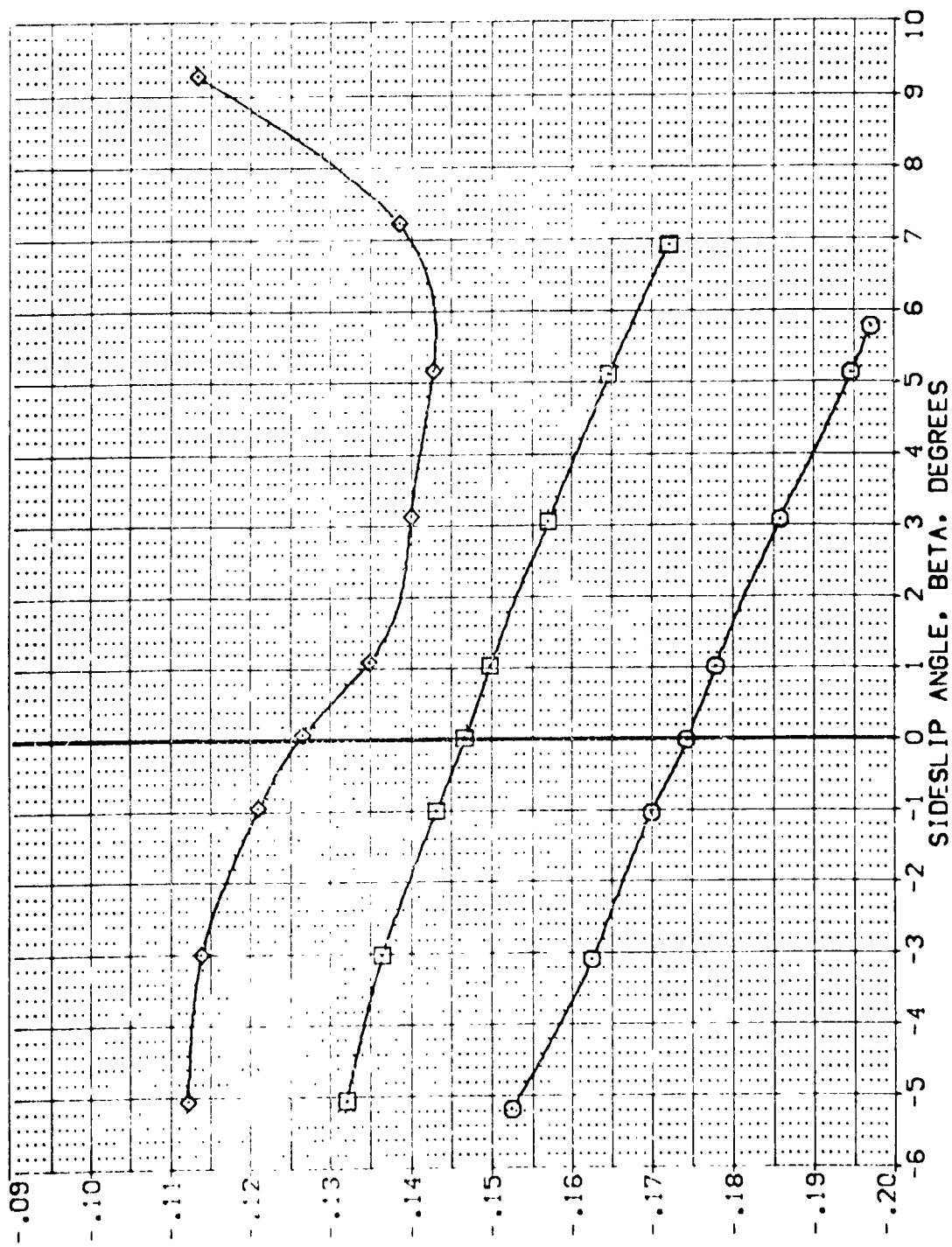


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL: (YK012) (YK013) (YK014)

CONFIGURATION DESCRIPTION: ARC 57-747 DAS38 B C M F VI V (YK012) ARC 57-747 DAS38 B C M F VI V (YK013) ARC 57-747 DAS38 B C M F VI V (YK014)

NON: RN/L (YK012) NON: RN/L (YK013) NON: RN/L (YK014)

ALPHA: .000, 10.000, 20.000

RUDDER: .000, .000, .000

BD FLAP: -11.700, -11.700, -11.700

SPOBRK: 55.000, 55.000, 55.000

REFERENCE INFORMATION: 2.4210 SQ. FT., 14.2440 IN., 28.1004 IN., 32.3010 IN., .0000 IN., 11.2500 IN., .0300 IN.

SREF, LREF, BREF, XMRP, YMRP, ZMRP, SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

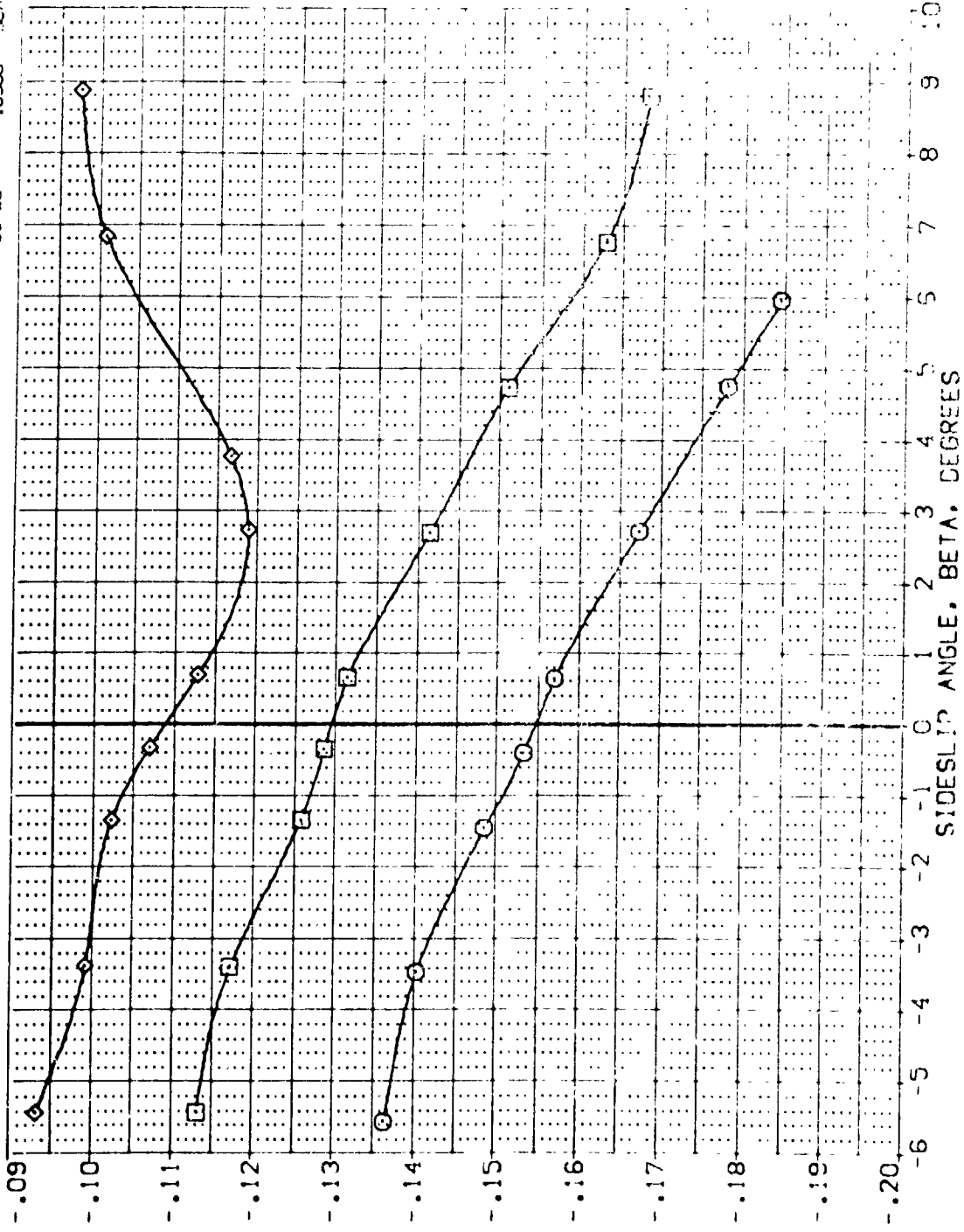


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDFLAP	SPOBRK	REFERENCE INFORMATION
(YK012)	ARC 97-747 0A538 B C M F V I V	.000	.000	-11.700	55.000	SREF 2.4210 SQ.FT.
(YK013)	ARC 97-747 0A538 B C M F V I V	10.000	.000	-11.700	55.000	LREF 14.2440 IN.
(YK014)	ARC 97-747 0A538 B C M F V I V	20.000	.000	-11.700	55.000	BREF 28.1004 IN.
						XMRP .0000 IN.
						ZMRP .0000 IN.
						SCALE 11.2500 SCALE

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

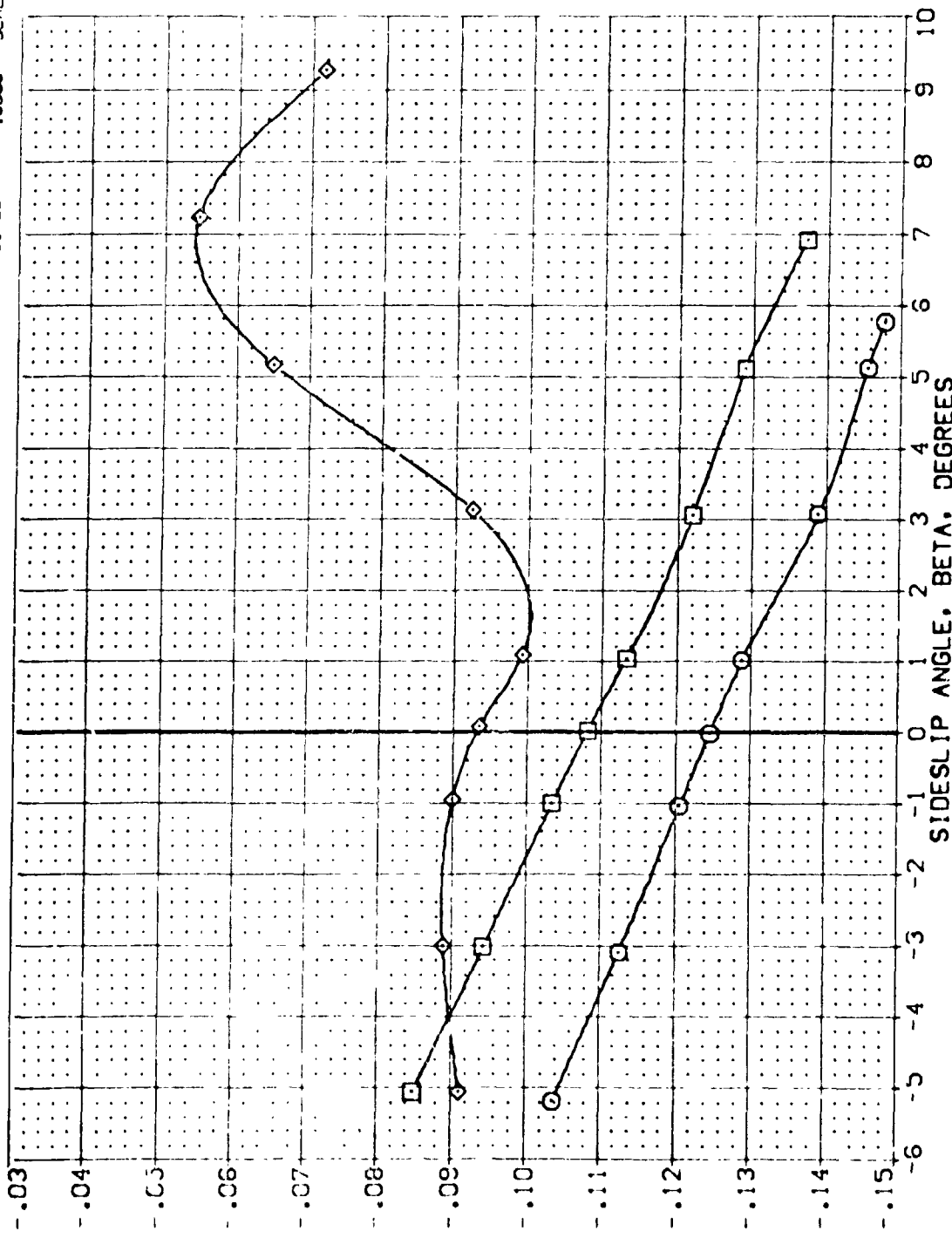


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60

DATA SET SYMBOL: (B) (D) (O) (S)

CONFIGURATION DESCRIPTION:
 ARC 97-747 DAS38 B C M F V I V
 ARC 97-747 DAS38 B C M F V I V
 ARC 97-747 DAS38 B C M F V I V

NON RN/L
 NON RN/L
 NON RN/L

ALPHA: .000, 10.000, 20.000
 RUDDER: .000, .000, .000
 BD LAP: 11.700, 11.700, 11.700
 SPOBRK: 55.000, 55.000, 55.000

REFERENCE INFORMATION:
 SREF: 2.4210 SO. FT.
 LREF: 14.2440 IN.
 BREF: 28.1004 IN.
 XMRP: 32.3010 IN.
 YMRP: .0000 IN.
 ZMRP: 11.2500 IN.
 SCALE: .0300 SCALE

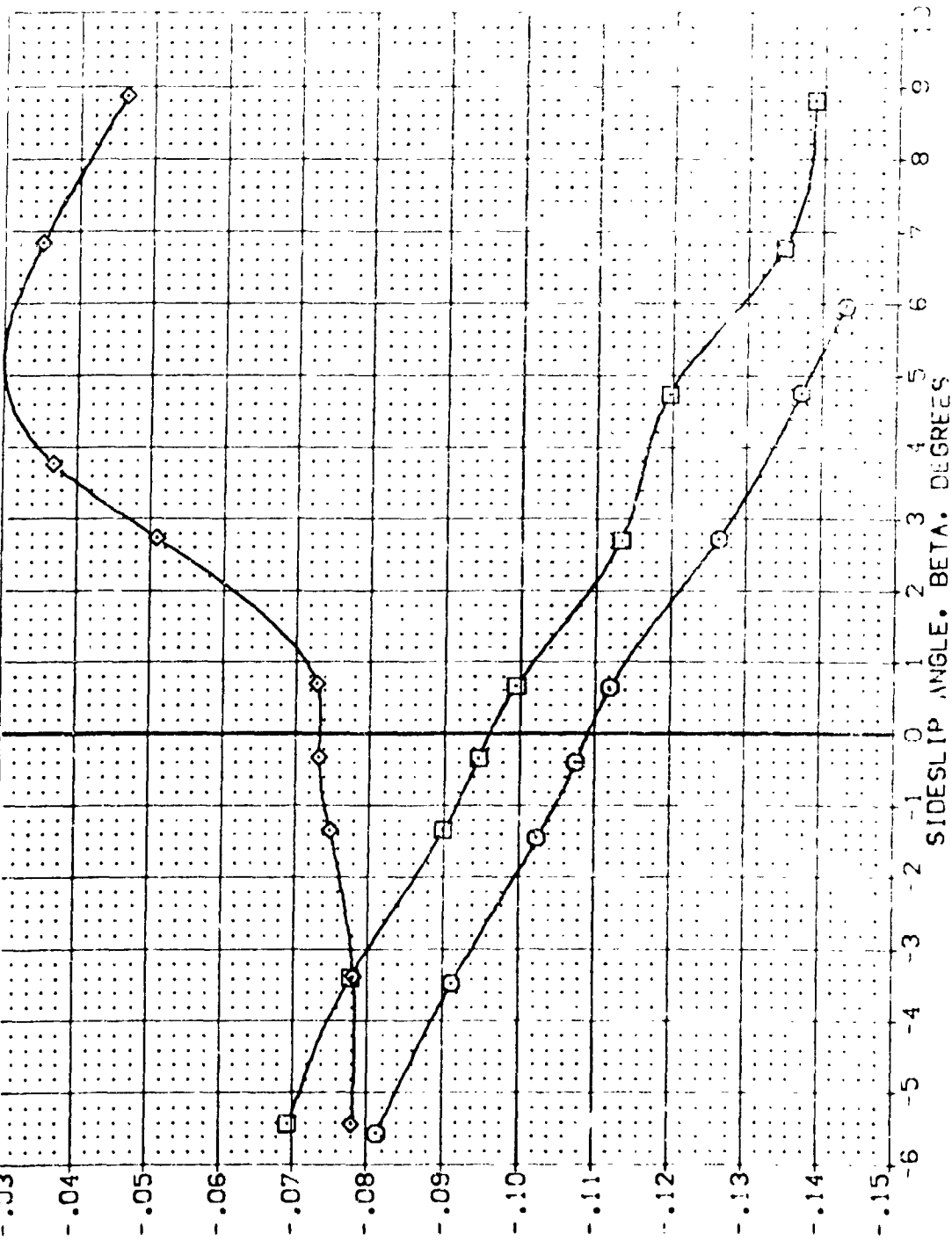
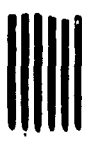


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B) MACH = 2.00



DATA SET SYMBOL
 (VEK029)
 (VEK030)
 (VEK031)

CONFIGURATION DESCRIPTION
 ARC 97-747 CAS38 B C M F VI V
 ARC 97-747 CAS38 B C M F VI V
 ARC 97-747 CAS38 B C M F VI V

NON: RN/L
 NON: RN/L
 NON: RN/L

ALPHA RUDER BOFLAP SPEEDRK
 10.000 -10.000 -11.700 55.000
 20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 SQ.FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 37.3016 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300 IN.

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

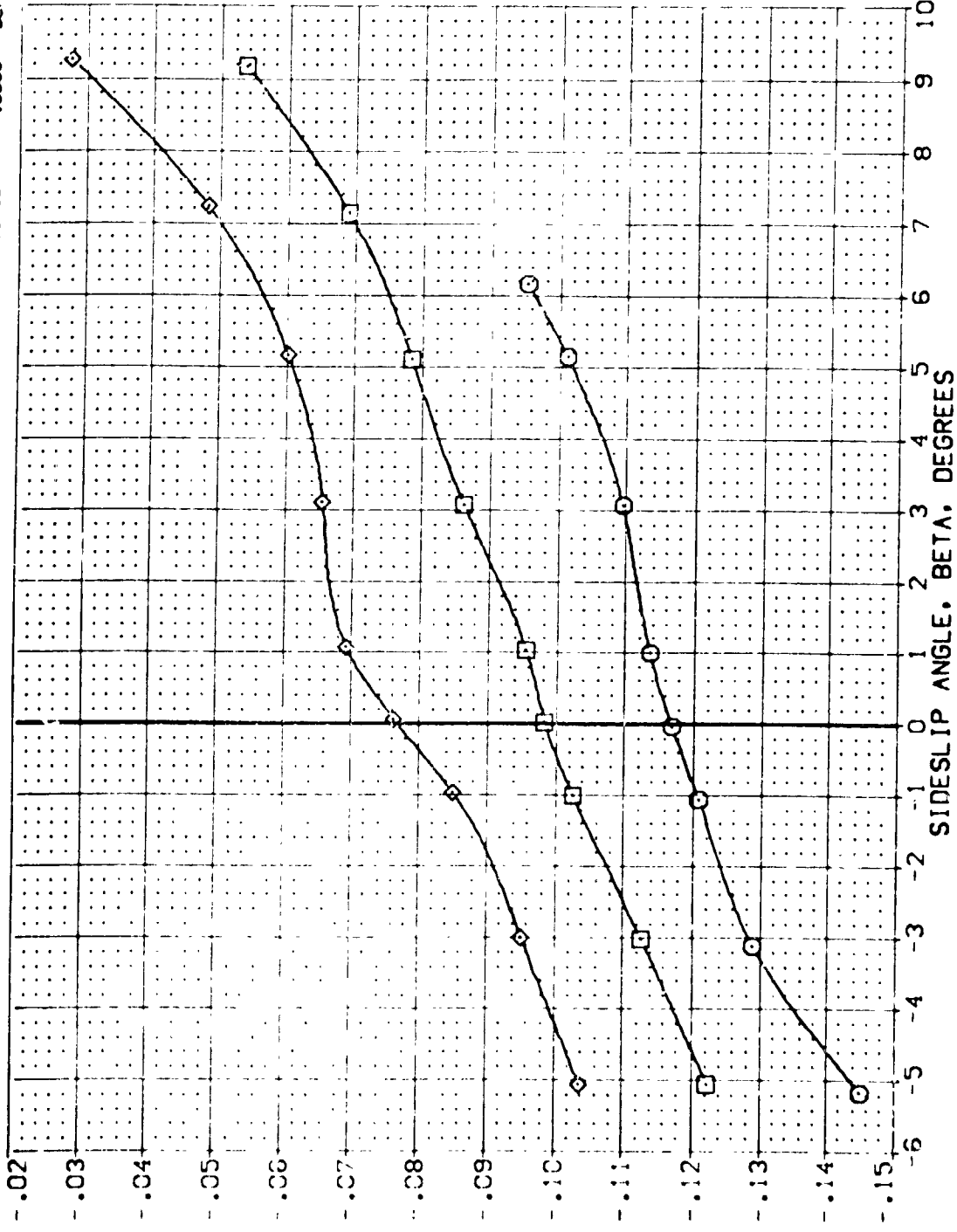


FIG. 51 RUDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.50

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(YK029) ARC 97-747 0A538 B C M F VI V

(YK030) ARC 97-747 0A538 B C M F VI V

(YK031) ARC 97-747 0A538 B C M F VI V

NON: RNVL

NON: RNVL

NON: RNVL

ALPHA RUDDER BOFLAP SPOBRK

0.000 -10.000 -11.700 55.000

10.000 -10.000 -11.700 55.000

20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 50. FT.

LREF 14.2440 IN.

BREF 28.1000 IN.

XMRD 32.3010 IN.

YMRD 11.0000 IN.

ZMRD 11.2500 IN.

SCALE .0300 SCALE

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

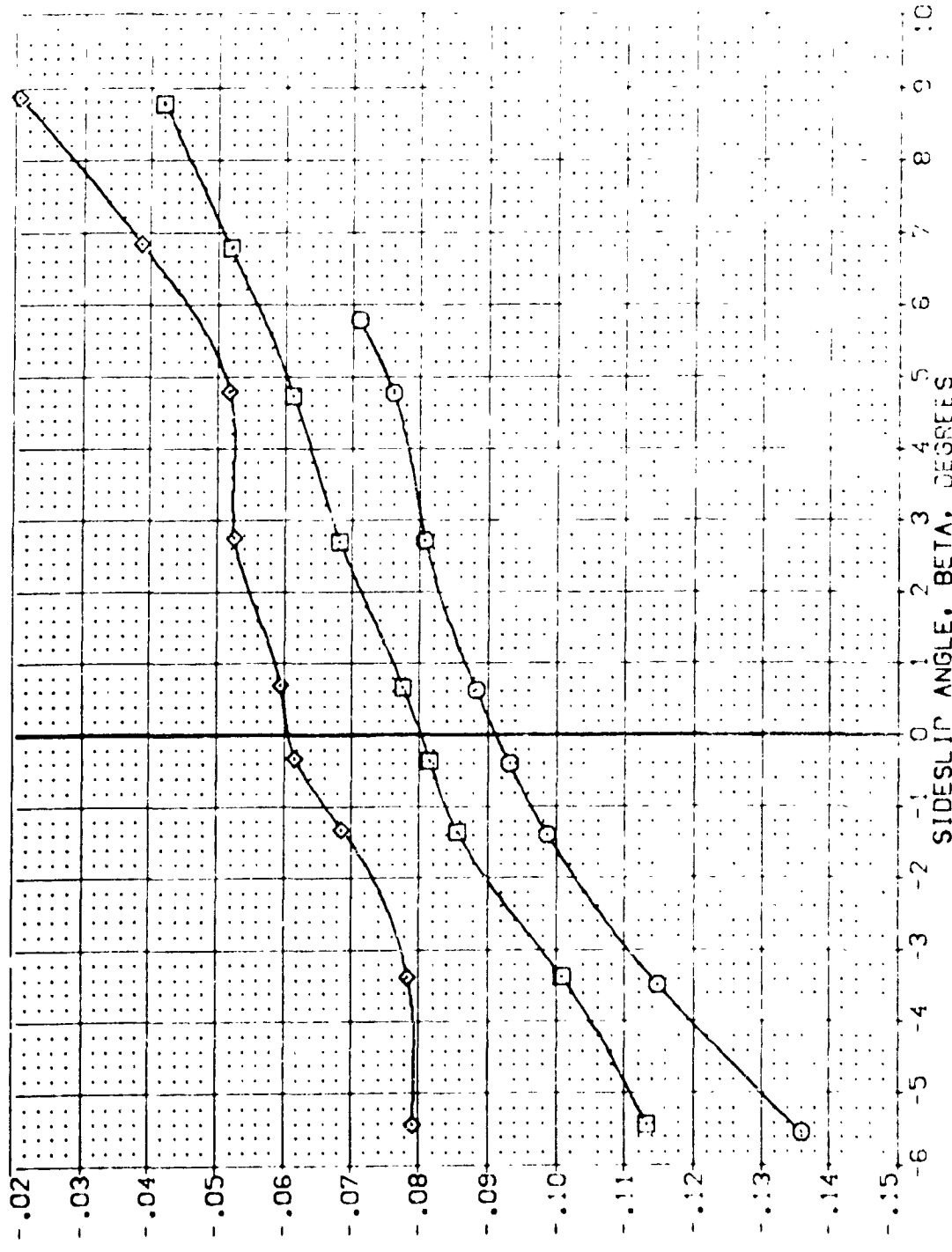


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B)MACH = 2.00 PAGE 528



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(YK029) ARC 97-747 D4538 B C M F V V NOM: RV/L
 (YK030) ARC 97-747 D4538 B C M F V V NOM: RV/L
 (YK031) ARC 97-747 D4538 B C M F V V NOM: RV/L

ALPHA RUDDER BDF LAP SPOBRK
 .000 -10.000 -11.700 55.000
 10.000 -10.000 -11.700 55.000
 20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION
 SREF 2.4210 50. FT.
 LREF 14.2440 IN.
 BREF 28.1004 IN.
 XMRP 32.3010 IN.
 YMRP .0000 IN.
 ZMRP 11.2500 IN.
 SCALE .0300 SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

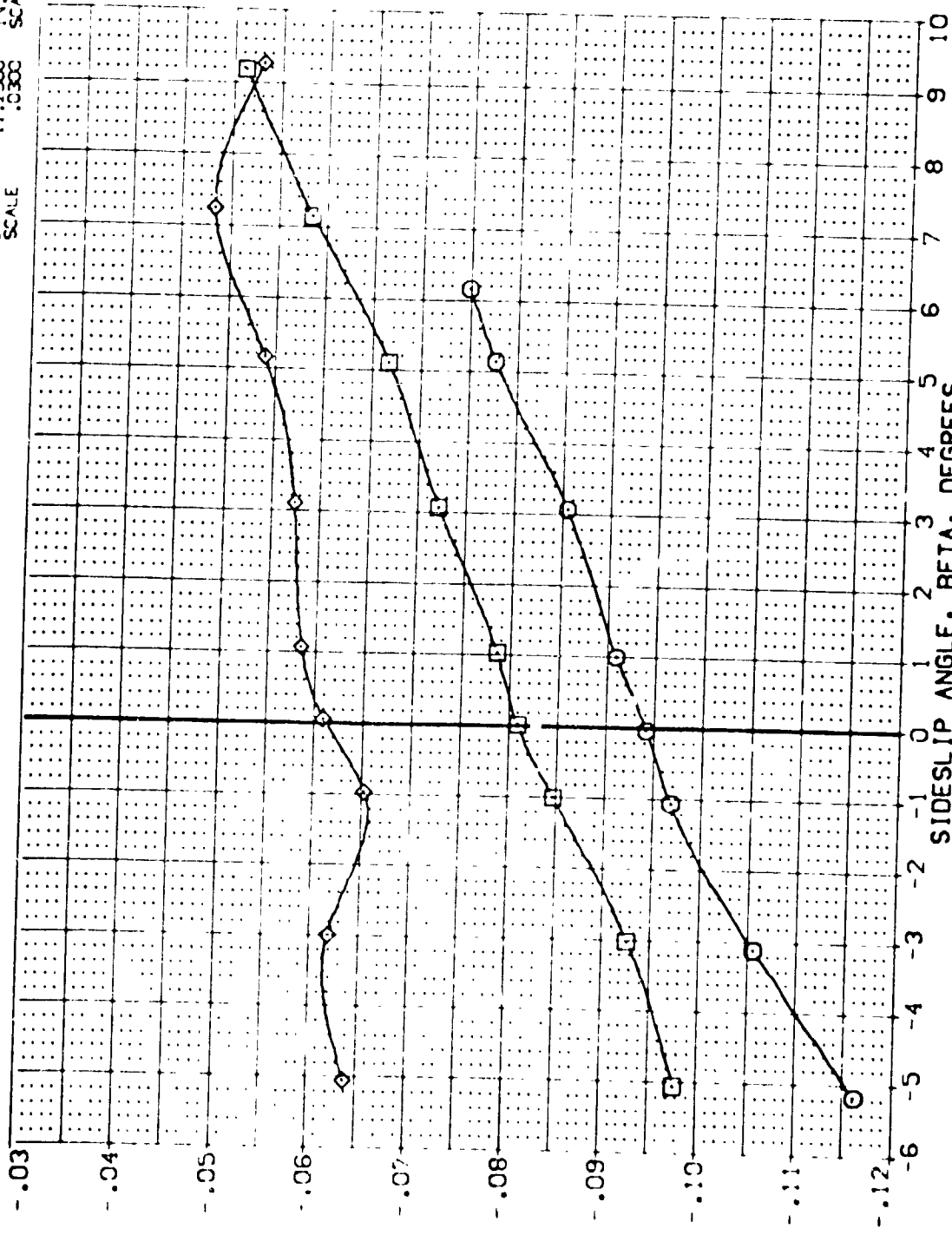


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60

DATA SET SYMBOLS: (VEK029) (VEK030) (VEK031)

CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BDF LAP	SPODBRK	REFERENCE INFORMATION
ARC 57-747 BA538 B C M F V I V	0.000	-10.000	-11.700	55.000	SREF 2.4310
ARC 57-747 CA538 B C M F V I V	10.000	-10.000	-11.700	55.000	LREF 14.2440
ARC 57-747 DA538 B C M F V I V	20.000	-10.000	-11.700	55.000	BREF 28.1004

XMRD 37.3010
 YMRD .0000
 ZMRD 11.2400
 SCALE 10.000

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

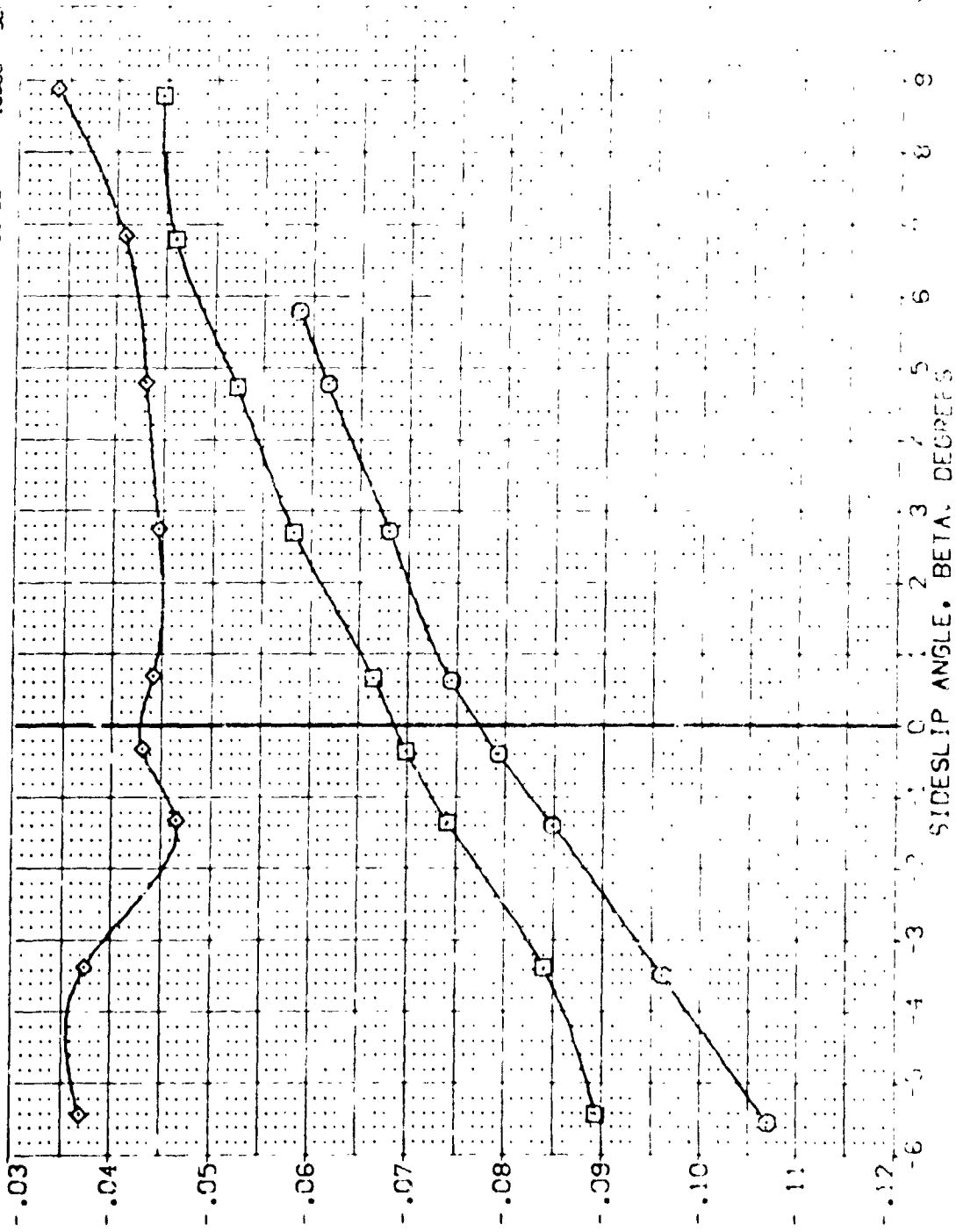


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE SPEEDBRAKE - 55 DEGREES
 (B) MAX = 2.00



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(YEK029) □ ARC 97-747 CA538 B C M F V I V

(YEK030) □ ARC 97-747 CA538 B C M F V I V

(YEK031) □ ARC 97-747 CA538 B C M F V I V

NON: RN/L

NON: RN/L

ALPHA RUDDER BDF LAP SPOBRK

.000 -10.000 -11.700 55.000

10.000 -10.000 -11.700 55.000

20.000 -10.000 -11.700 55.000

REFERENCE INFORMATION

SREF 2.4210 SQ.FT.

LREF 14.7440 IN.

BREF 28.1004 IN.

YMRP 32.3010 IN.

ZMRP .0000 IN.

SCALE 11.2500 IN.

SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

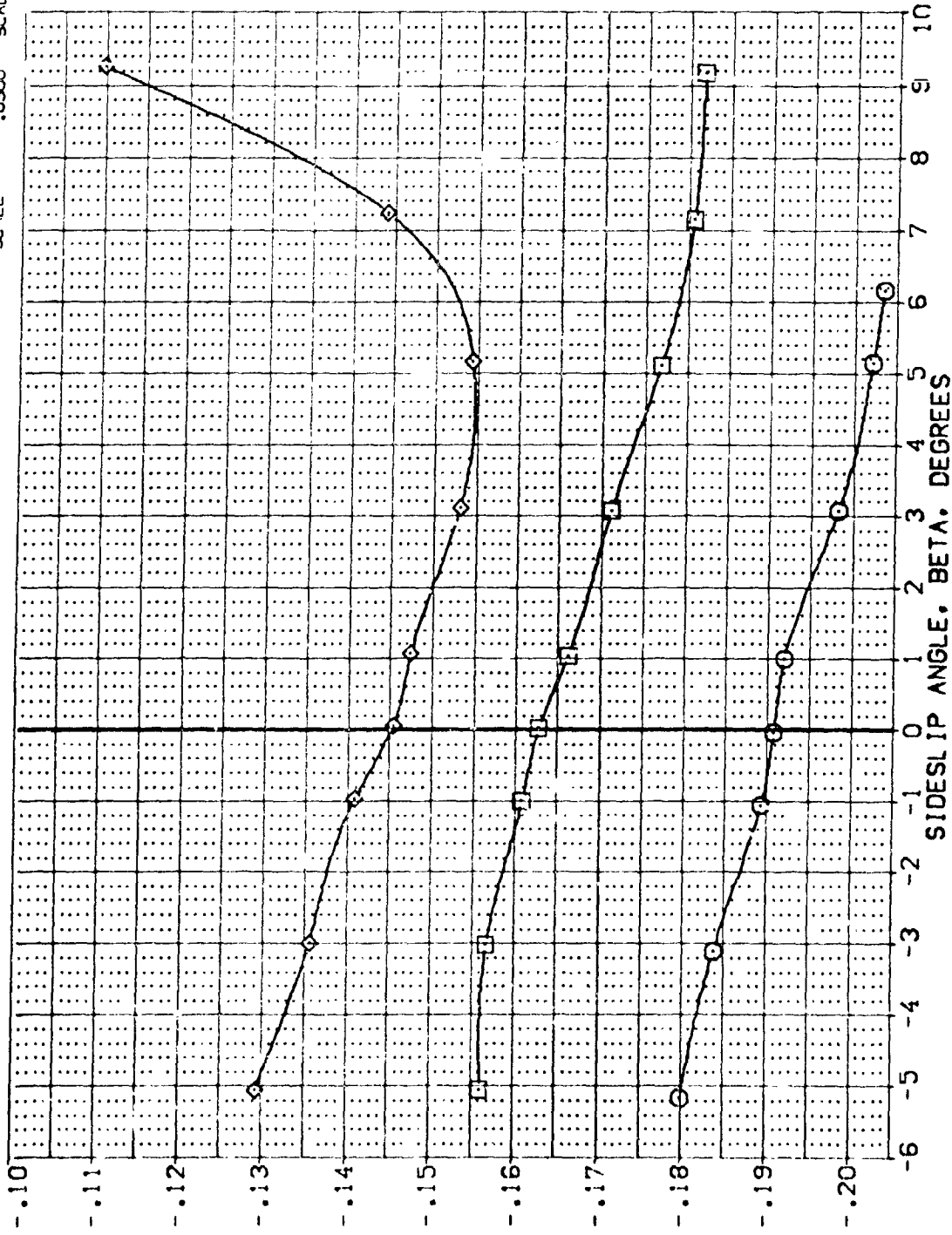


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES

(A)MACH = 1.60

DATA SET SYMBOL: [YER028], [YER030], [YER031]

CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C M F V I V, ARC 97-747 CAS38 B C M F V I V, ARC 97-747 CAS38 B C M F V I V

REFERENCE INFORMATION (107): SREF 2.4210 50. FT., LREF 14.2410 IN., BREF 26.1004 IN., XMRP 32.3013 IN., YMRP 0.0000 IN., ZMRP 11.7500 IN., SCALE .0300

ALPHA: .000, 10.000, 20.000

RUDDER: -10.000, -10.000, -10.000

BOFLAP: -11.700, -11.700, -11.700

SPOBRK: 55.000, 55.000, 55.000

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

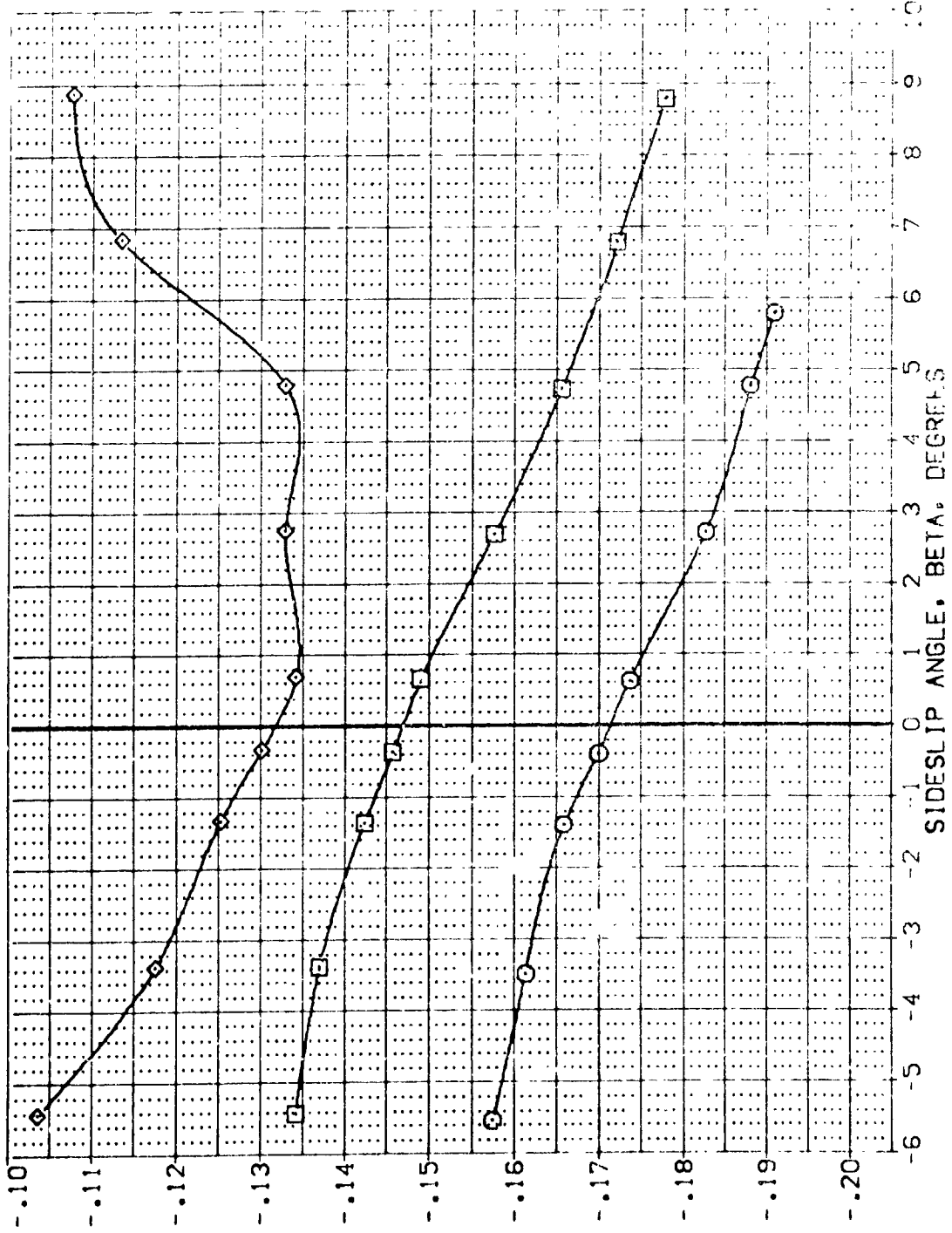


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES (B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
{YK029}	ARC 97-747 CAS38 B C M F VI V	.000	-10.000	-11.700	55.000	SREF 2.4710
{YK030}	ARC 97-747 CAS38 B C M F VI V	10.000	-10.000	-11.700	55.000	LREF 14.2440
{YK031}	ARC 97-747 CAS38 B C M F VI V	20.000	-10.000	-11.700	55.000	BREF 28.1004
						XMRD 37.3010
						YMRD .0000
						ZMRD 11.2500
						SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

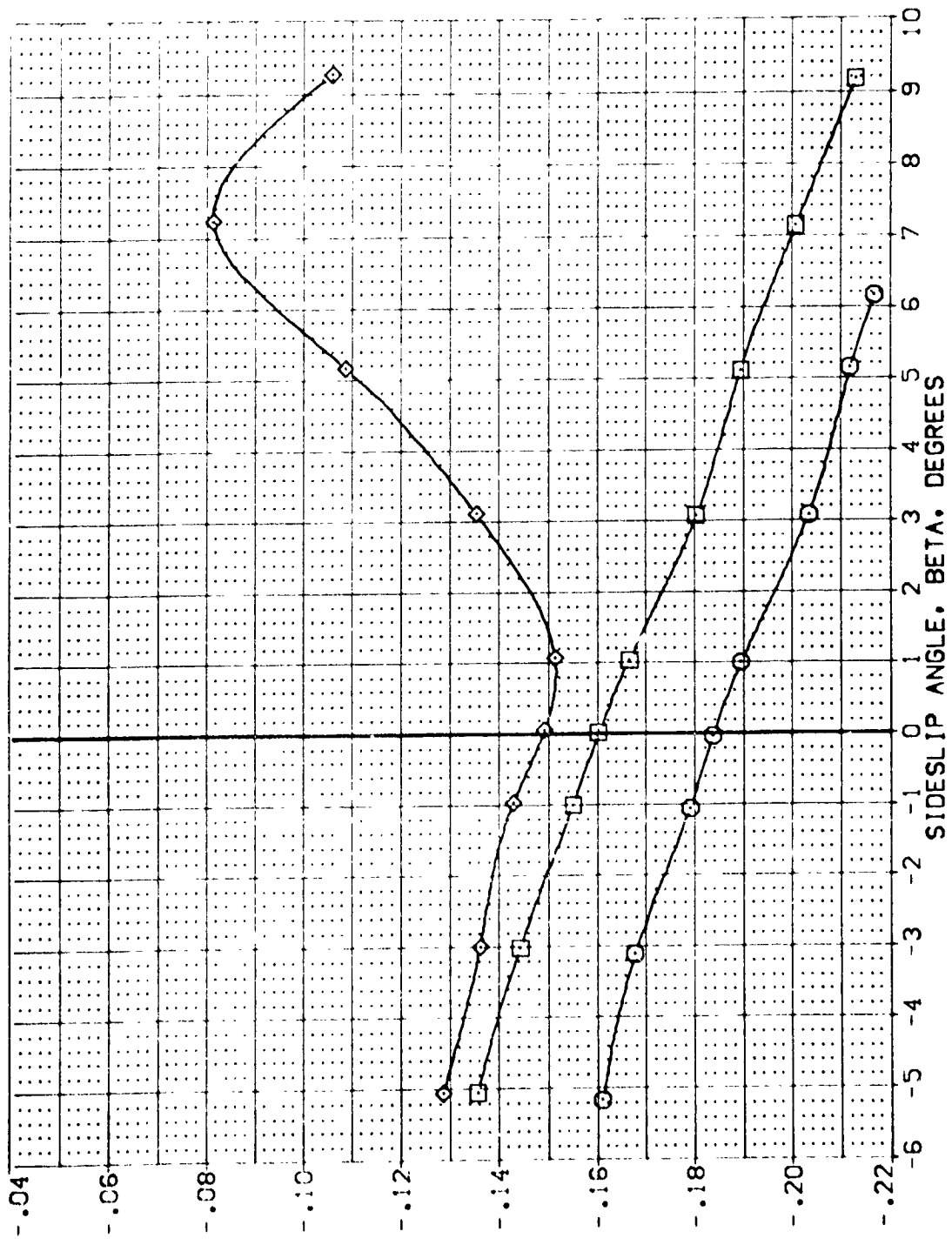


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL: (VEK029) (VEK030) (VEK031)

CONFIGURATION DESCRIPTION:
 ARC 97-747 CAS38 B C M F V I V
 ARC 97-747 CAS38 B C M F V I V
 ARC 97-747 CAS38 B C M F V I V

NON: RNVL
 NON: RNVL
 NON: RNVL

ALPHA: .000, 10.000, 20.000
 RUDDER: -10.000, -10.000, -10.000
 BOFLAP: -11.700, -11.700, -11.700
 SPODRK: 55.000, 55.000, 55.000

REFERENCE INFORMATION:
 SREF: 2.4210 SO.FT.
 LREF: 14.2440
 BREF: 28.1004
 XMRP: 37.3010
 YMRP: .0000
 ZMRP: 11.2500
 SCALE: .0000

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

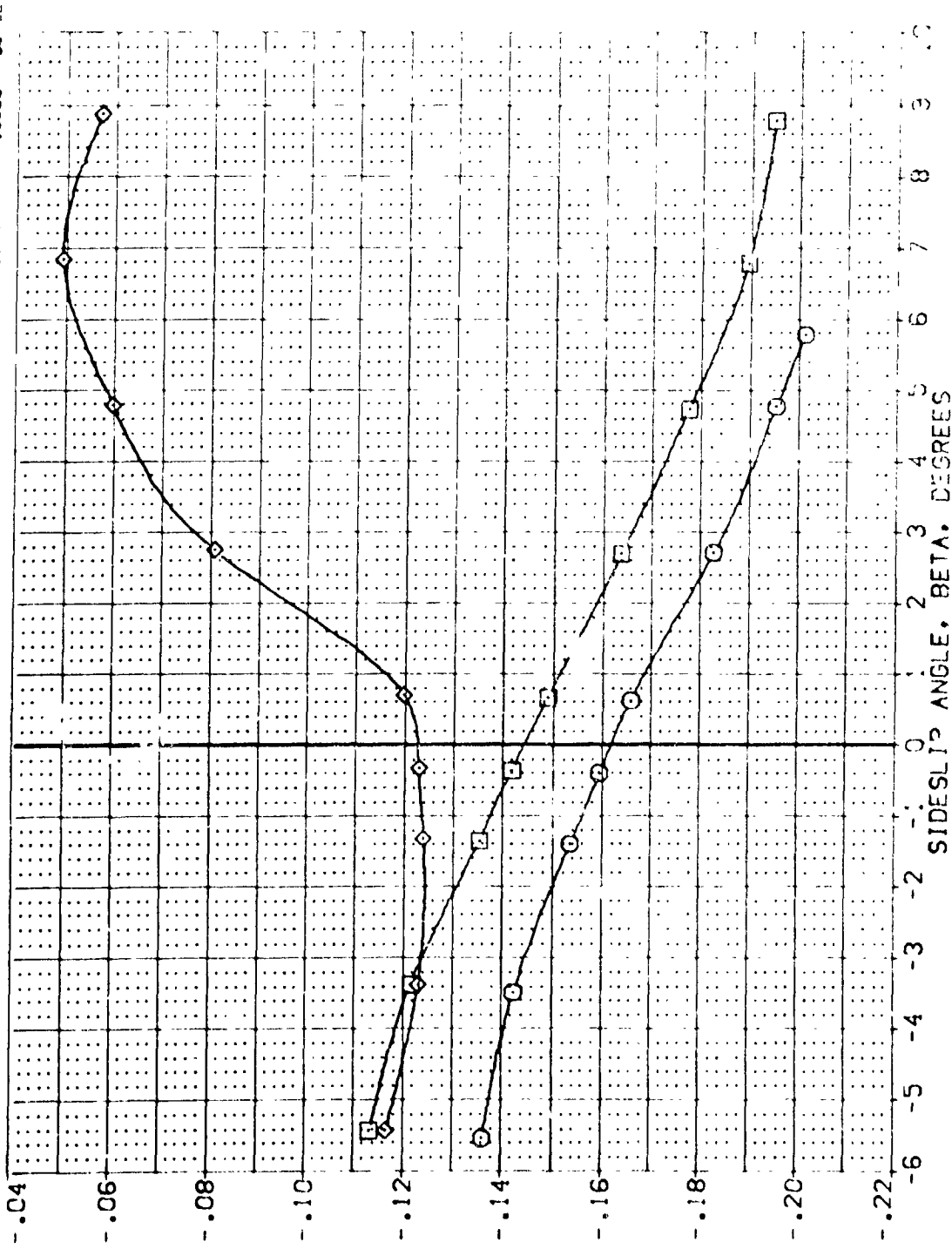


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B)MACH = 2.00 PAGE 534



DATA SET SYMBOL: [YER032] [YER033] [YER034]
 CONFIGURATION DESCRIPTION: ARC 97-747 OAS38 B C M F VI V; ARC 97-747 OAS38 B C M F VI V; ARC 97-747 OAS38 B C M F VI V
 ALPHA: 0.000, 10.000, 20.000; RUDDER: -25.000, -25.000, -25.000; BDF LAP: -11.700, -11.700, -11.700; SPOBRK: 55.000, 55.000, 55.000
 REFERENCE INFORMATION: 2.4210 SQ.FT.; 14.2440 IN.; 28.1004 IN.; 32.3010 IN.; .0000 IN.; .2500 IN.; .0300 IN.; SCALE

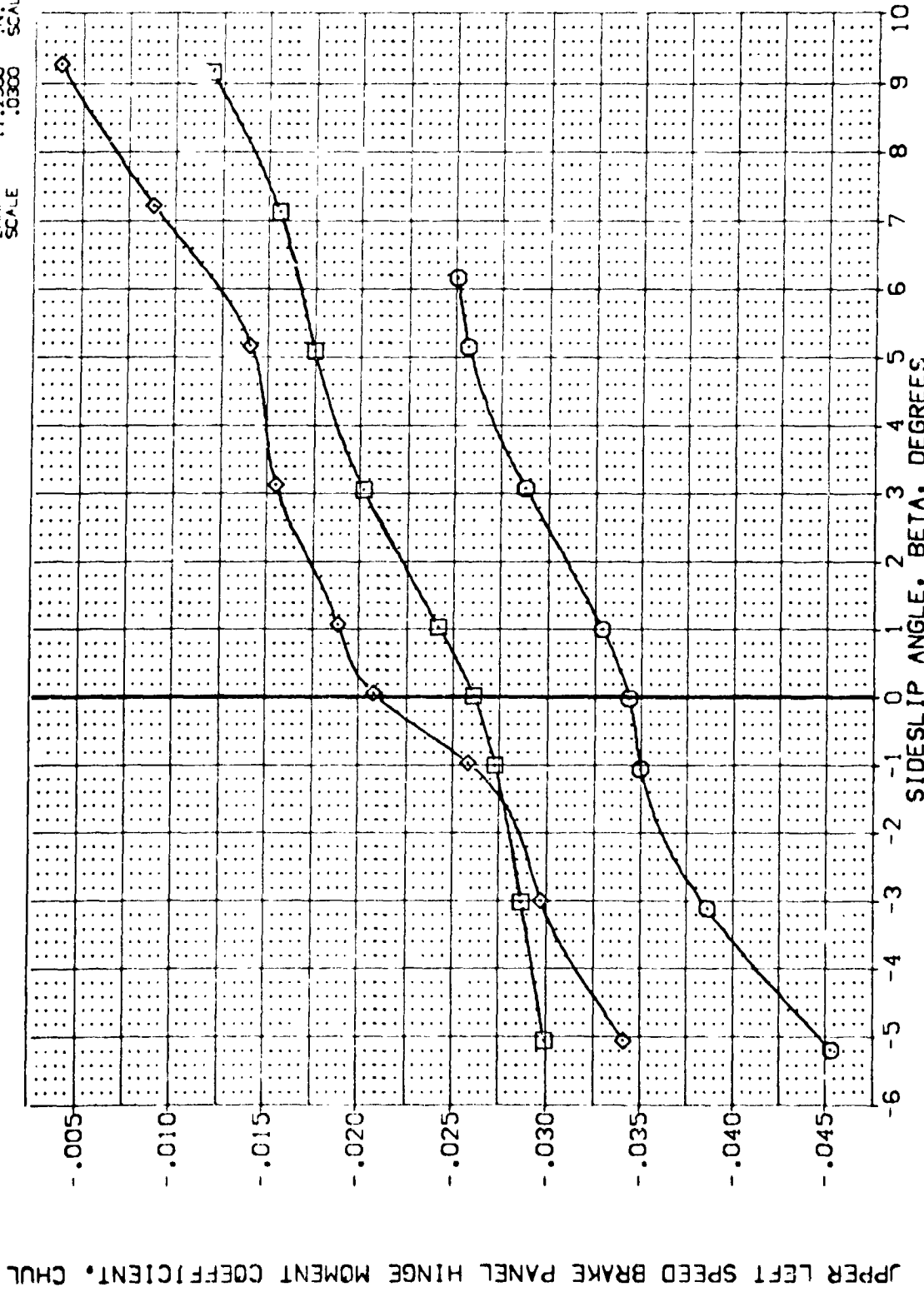


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60 PAGE 535

DATA SET SYMBOL CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(YEF002)	ARC 97-747 DAS38 B C M F V I V	SREF	2.4210	50.0%
(YEF033)	ARC 97-747 DAS38 B C M F V I V	LREF	14.2440	100%
(YEF034)	ARC 97-747 DAS38 B C M F V I V	SREF	28.1100	100%
		YMRD	32.3000	100%
		ZMRD	11.7500	100%
		SCALE	1.0000	50%

ALPHA	RUDDER	ROFLAP	SPEEDBRK
.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

UPPER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUL

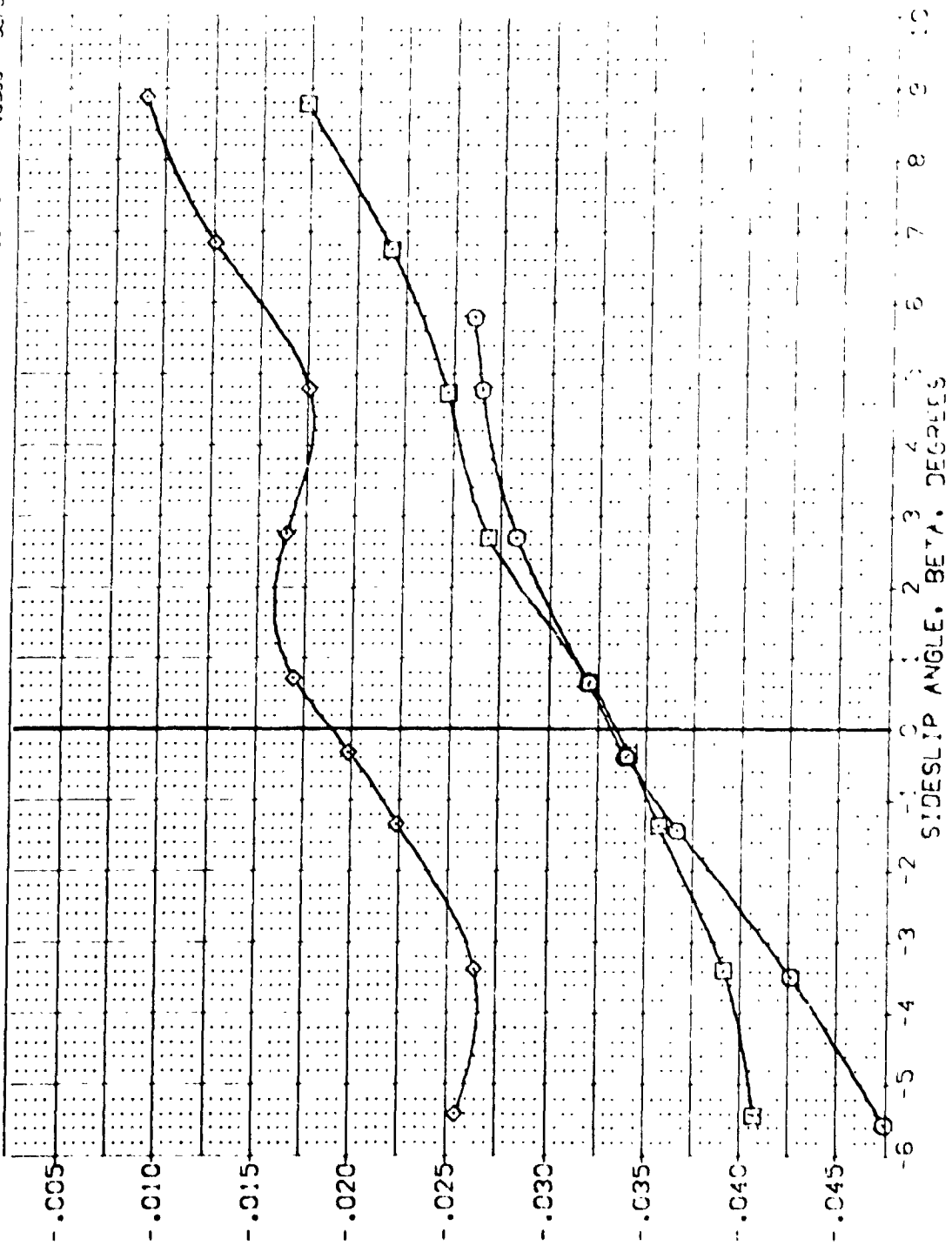


FIG. 51 PUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (B)MACH = 2.00 PAGE 530



DATA SET SYMBOL: COEFF: DESCRIPTION: REFERENCE INFORMATION

(VEK02)	ARC 97.5	ARC 97.5	NON: RNAL	ALPHA	RUDDER	BOFLAP	SPOBRK	SREF	2.4210	50.FT.
(VEK03)	ARC 97.5	ARC 97.5	NON: RNAL	10.000	-25.000	-11.700	55.000	LREF	14.2440	IN.
(VEK03A)	ARC 97.5	ARC 97.5	NON: RNAL	20.000	-25.000	-11.700	55.000	BREF	28.1000	IN.
								XMRP	32.3010	IN.
								ZMRP	0.0000	IN.
								ZMRP	11.2500	IN.
								SCALE	0.0300	SCALE

LOWER LEFT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHLL

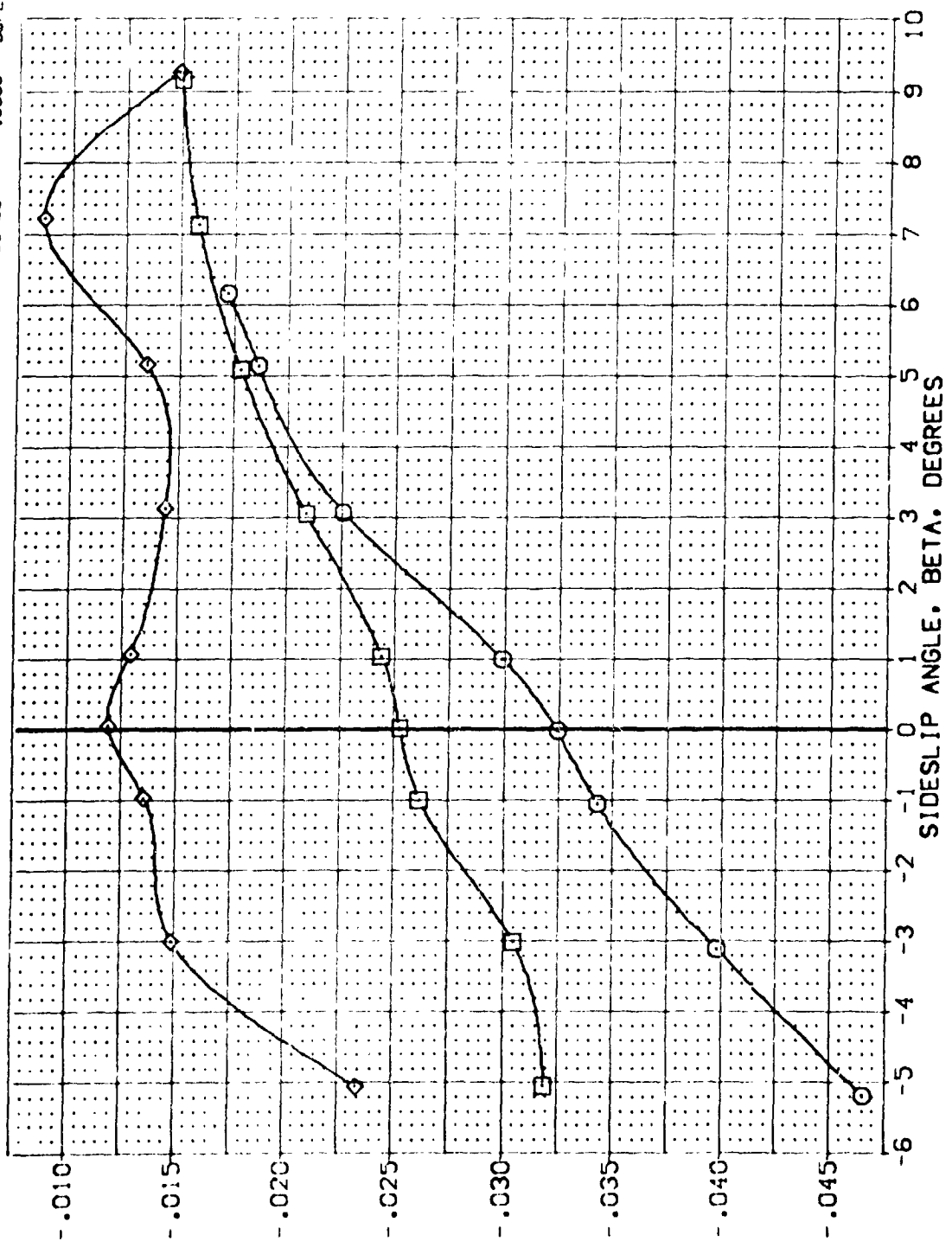


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60 PAGE 537

DATA SET SYMBO. CONFIGURATION DESCRIPTION

(YEM032)	ARC 97-747	BAS38	B	C	M	F	V1	V	NOM.	RAVL
(YEM033)	ARC 97-747	BAS38	B	C	M	F	V1	V	NOM.	RAVL
(YEM034)	ARC 97-747	BAS38	B	C	M	F	V1	V	NOM.	RAVL

ALPHA RUDDER BOFLAP SPEEDRK

.000	-25.000	-11.700	55.000
10.000	-25.000	-11.700	55.000
20.000	-25.000	-11.700	55.000

REFERENCE INFORMATION

SREF	2.4210	50. FT.
LREF	14.2440	
BREF	28.4880	
XMRP	32.2010	
YMRP	.0000	
ZMRP	11.2500	
SCALE	.0300	

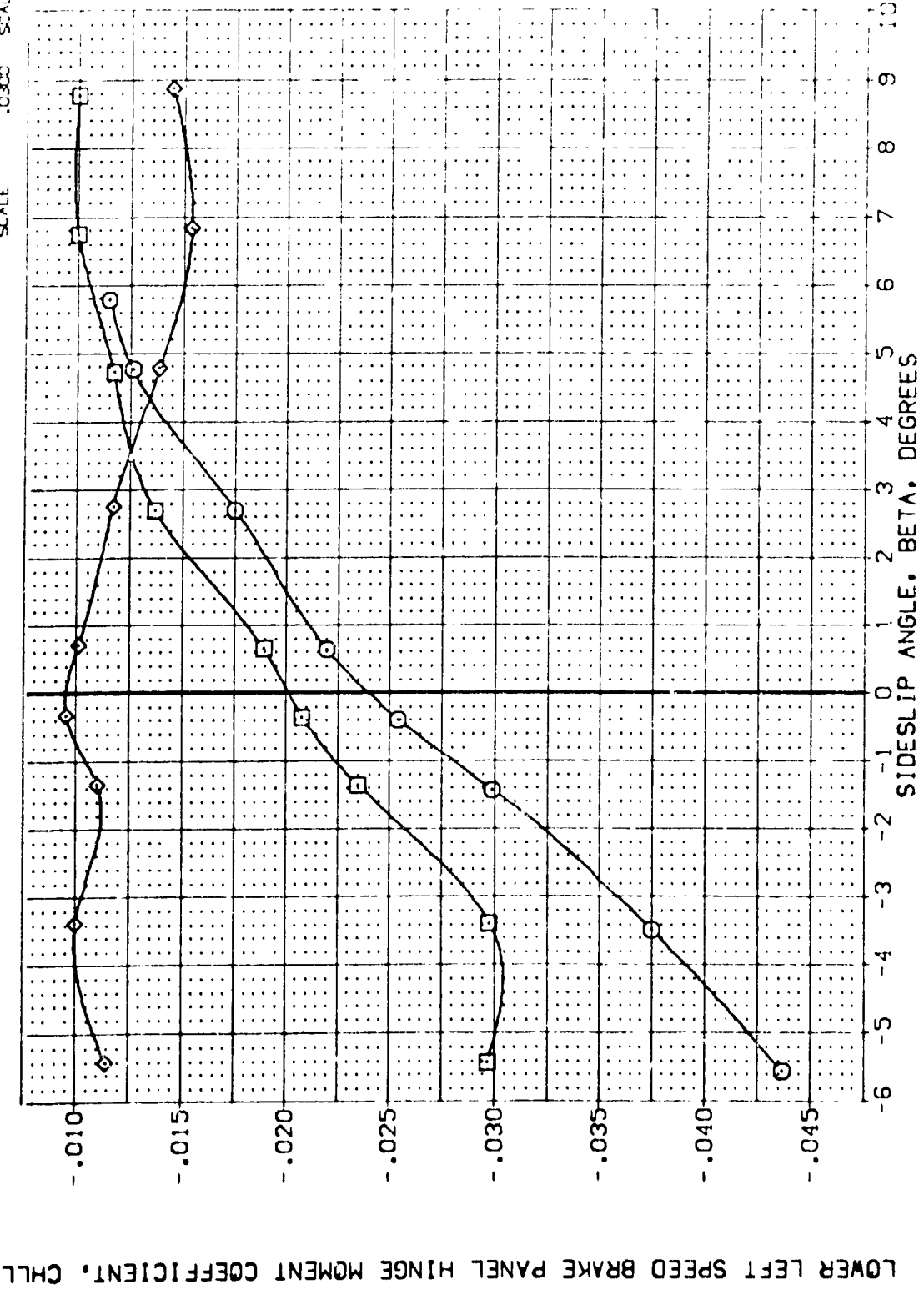


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RUDDER	BOFLAP	SPOBRK	REFERENCE INFORMATION
[YEK032]	ARC 97-7 0A53 B C M F VI V	.000	-25.000	-11.700	55.000	SREF 2.4210
[YEK033]	ARC 97-747 3A537 B C M F VI V	10.000	-25.000	-11.700	55.000	LREF 14.2440
[YEK034]	ARC 97-747 3A533 B C M F VI V	20.000	-25.000	-11.700	55.000	BREF 28.1004
						XMRP 32.3010
						ZMRP .0000
						ZMRP 11.2500
						SCALE .0300
						SCALE

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

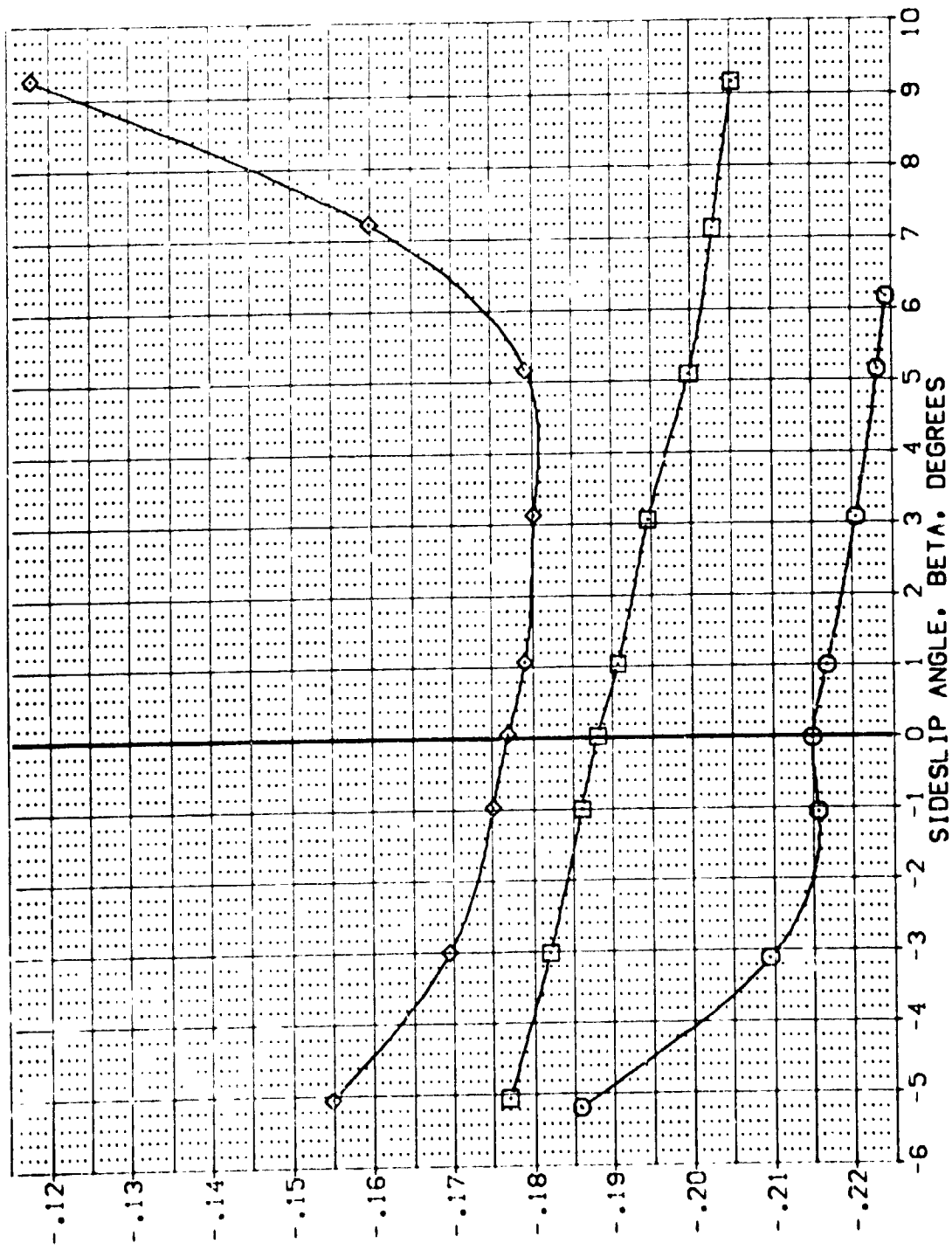


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
 (A)MACH = 1.60

DATA SET SYMB: [VEK032] [VEK033] [VEK034] CONFIGURATION DESCRIPTION: ARC 97-747 CAS38 B C H F VI V NOM: RN/L REFERENCE INFORMATION: 2.4210 50. FT. SREF 14.7440 IN. LREF 28.1004 IN. BREF 32.3018 IN. XMRP .0000 IN. YMRP .2500 IN. ZMRP .0300 IN. SCALE .0300

UPPER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CHUR

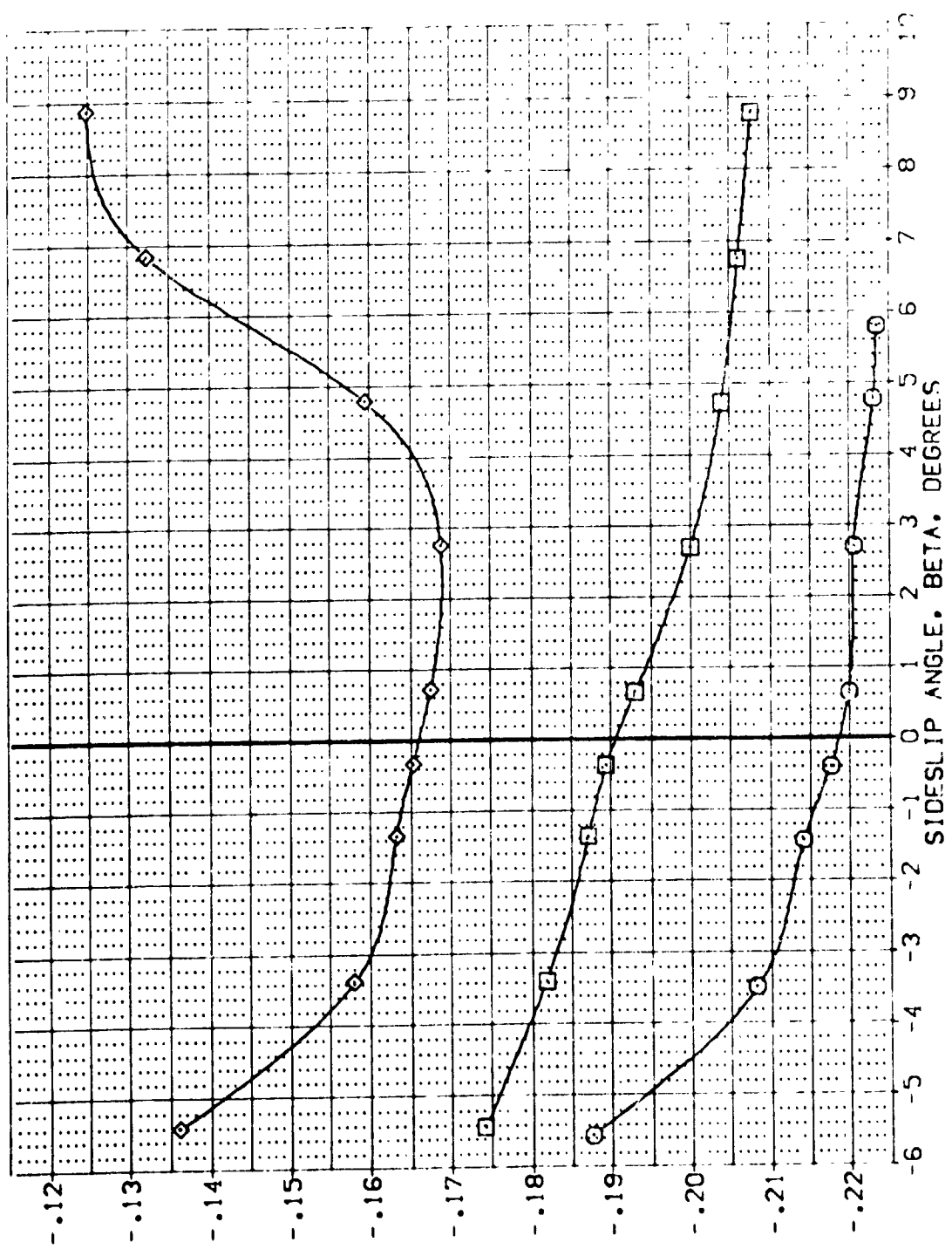


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(B)MACH = 2.00



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	V	NDM	RVUL	ALPHA	RUDDER	BOFLAP	SPODBRK	REFERENCE INFORMATION
{ YEF032 }	ARC 97-747 CAS38 B C M F V I	V	NDM	RVUL	.000	-25.000	-11.700	55.000	SREF 2.4210
{ YEF033 }	ARC 97-747 CAS38 B C M F V I	V	NDM	RVUL	10.000	-25.000	-11.700	55.000	LREF 14.2410
{ YEF034 }	ARC 97-747 CAS38 B C M F V I	V	NDM	RVUL	20.000	-25.000	-11.700	55.000	BREF 28.1004
									XMRP 32.3010
									YMRP .0000
									ZMRP 11.2500
									SCALE .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

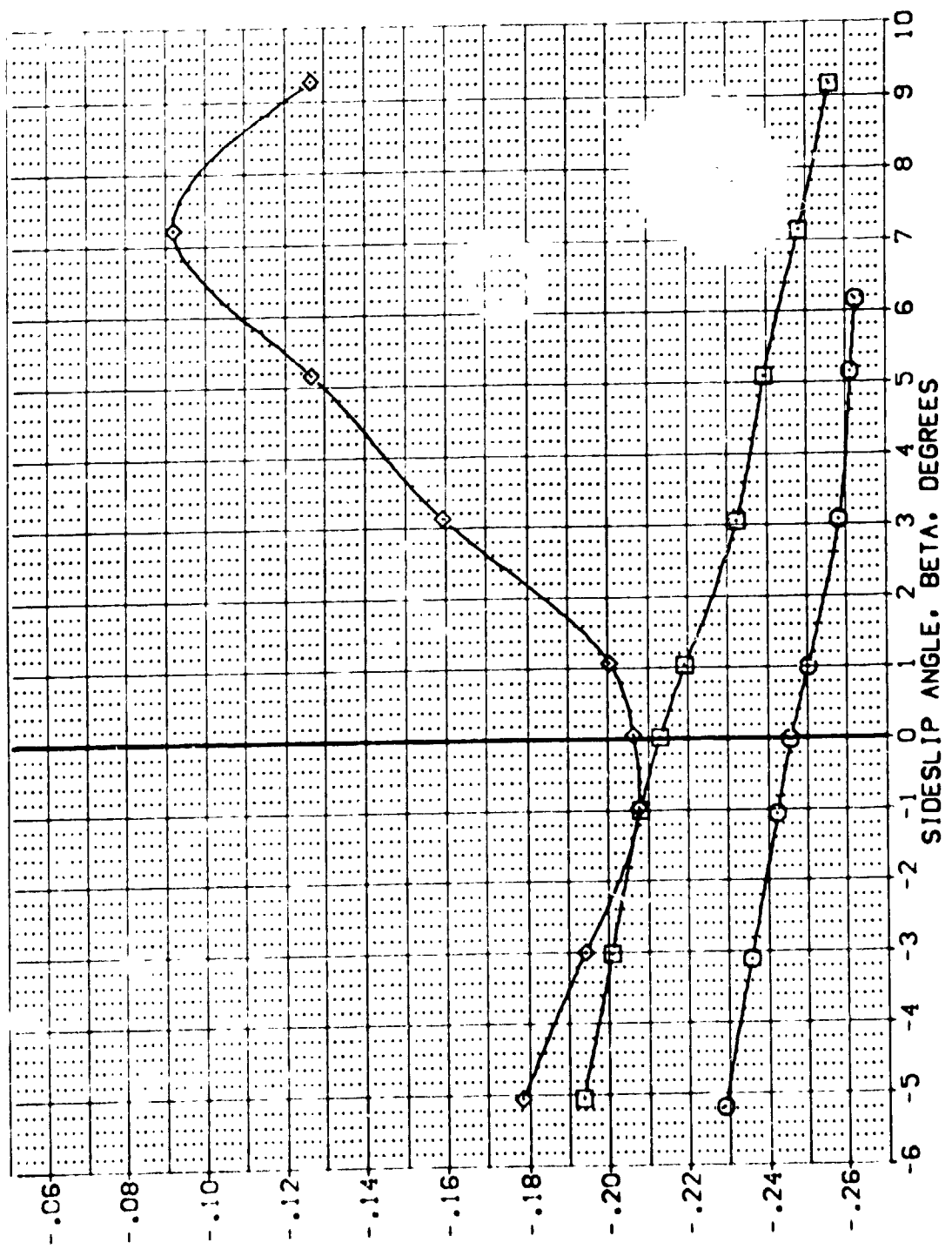


FIG. 51 RUDDER PANEL HINGEMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES
(A)MACH = 1.60

DATA SET SYMBOL: (VEK032) (VEK033) (VEK034)

CONFIGURATION DESCRIPTION: ARC 97-747 OAS3B B C M F V I V NOM: RV/L (ARC 97-747 OAS3B B C M F V I V NOM: RV/L)

ALPHA: .000 10.000 20.000

RUDDER: -25.000 -25.000 -25.000

SIDESLIP: 55.000 55.000 55.000

BOFLAP: -11.700 -11.700 -11.700

REFERENCE INFORMATION: 2.4210 14.2410 28.1004 32.3010 .0000 11.7500 .0300

SO. FT.: 50.000 50.000 50.000 50.000

SCALE: 11.7500 .0300

LOWER RIGHT SPEED BRAKE PANEL HINGE MOMENT COEFFICIENT, CLR

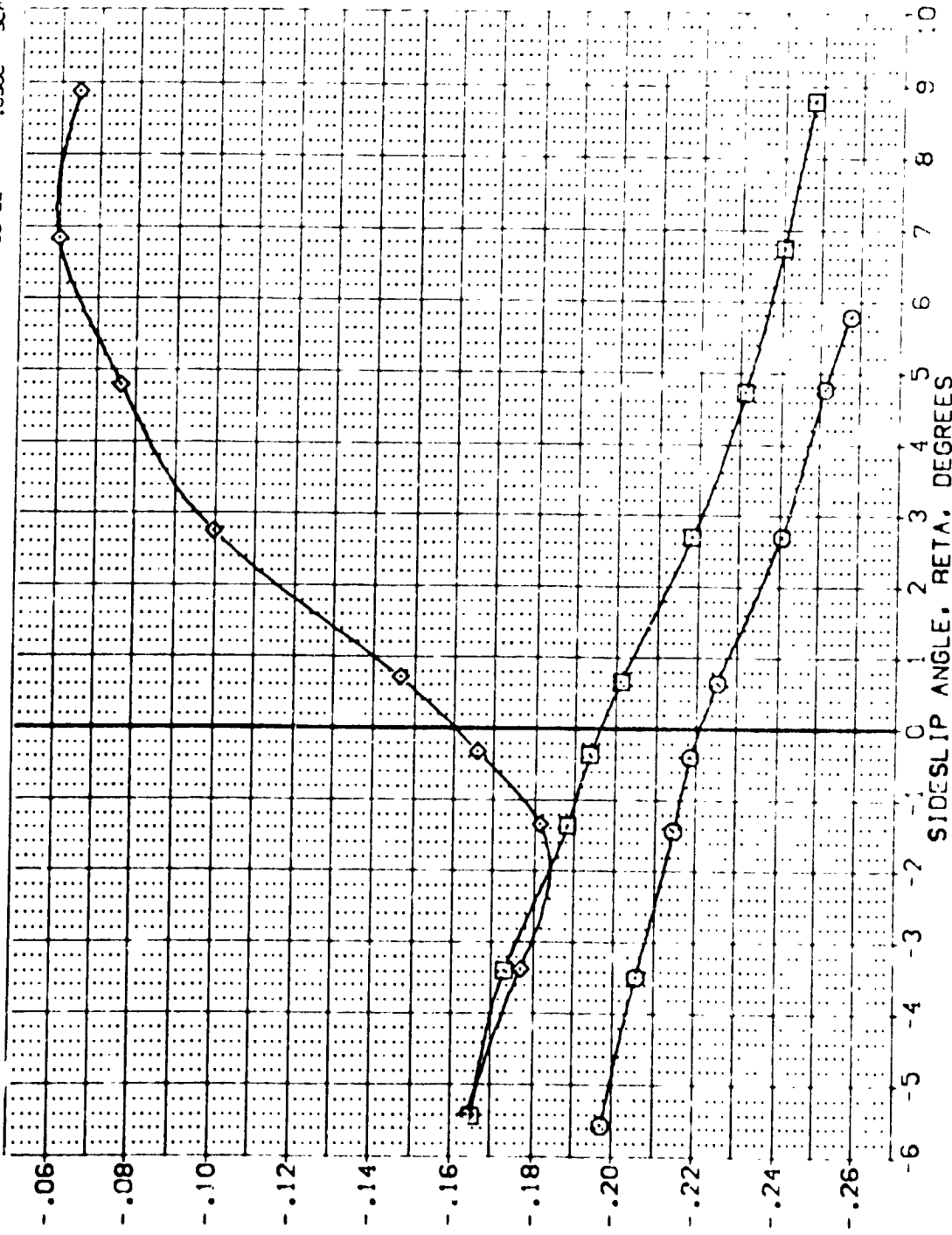


FIG. 51 RUDDER PANEL HINGEMOMENT VERSUS SIDESLIP ANGLE, SPEEDBRAKE = 55 DEGREES (B)MAC = 2.00



APPENDIX
TABULATED SOURCE DATA

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

ARC 97-747 04538 B C M F W1 V MOM. RN/L

(REK001) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 IN. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 ALLROM = .000 9DFLAP = 82.900
 SPDRK = 95.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 1/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.514	-.05510	.16610	.16450	-.06330	.01620	598.40000	.12078	.04372	.12842	-.35598
1.601	-.146	.00182	.16300	.16300	.00080	.00460	598.40000	.11920	.04380	.11920	.00746
1.601	6.948	.15970	.15820	.14800	-.02130	598.40000	.11490	.12235	.04331	.12235	.84339
1.601	6.046	.28090	.19230	.15190	.29860	-.04710	598.40000	.10976	.04214	.14060	1.53935
1.601	9.148	.41230	.21650	.14830	.44120	-.06820	598.40000	.10480	.04350	.17361	1.9254
1.801	12.260	.53310	.26290	.14380	.57670	-.08110	598.40000	.09843	.04537	.21864	2.02680
1.601	15.360	.66550	.32760	.13980	.72800	-.09700	598.40000	.09341	.04639	.26297	2.02555
1.601	16.290	.76060	.34850	.13810	.77020	-.10150	598.40000	.09138	.04672	.30375	2.00961
1.601	18.470	.78740	.40565	.13250	.87540	-.10970	598.40000	.08741	.04779	.36024	1.94165
1.601	19.400	.81630	.42945	.13380	.91260	-.11130	598.40000	.08533	.04847	.38361	1.90142
1.601	21.590	.85880	.49600	.13050	1.01800	-.11840	598.40000	.08109	.04941	.44999	1.81187
1.601	24.700	1.00400	.60040	.12370	1.16300	-.12490	598.40000	.07448	.05122	.55364	1.67295
1.601	27.620	1.07500	.70720	.12360	1.28100	-.13330	598.40000	.06936	.05424	.65918	1.52055
GRADIENT	.04459	.00005	-.00144	.04743	-.00840	.00000	.00000	-.00133	-.00010	.00016	-.26902

RUN NO. 2/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.505	-.05680	.15380	.15220	-.06780	.00040	588.90000	.12071	.03149	.12227	-.36932
2.002	-.162	.00630	.15050	.15050	-.00670	-.00700	588.90000	.11919	.03131	.11921	-.04169
2.002	2.925	.10860	.15160	.14590	.11620	-.02450	588.90000	.11490	.03100	.12068	.71620
2.002	6.010	.22270	.16550	.14120	.23880	-.04130	588.90000	.11022	.05398	.134624	1.53624
2.002	9.097	.33360	.19000	.13480	.35950	-.05440	588.90000	.10449	.03031	.16001	1.75665
2.002	12.190	.44360	.22750	.12880	.48160	-.06210	588.90000	.09850	.03030	.19797	1.94889
2.002	15.300	.55630	.28210	.12480	.61300	-.06990	588.90000	.09294	.03186	.25140	1.97902
2.002	18.390	.66740	.34960	.12110	.74360	-.07810	588.90000	.08805	.03305	.31815	1.90959
2.002	21.500	.77460	.43130	.11760	.87880	-.08820	588.90000	.08311	.03449	.39940	1.79503
2.002	24.590	.87240	.52340	.11280	1.01100	-.09870	588.90000	.07633	.03647	.49010	1.66716
2.002	27.700	.96790	.62770	.10500	1.14900	-.10810	588.90000	.06849	.03731	.59474	1.54216
GRADIENT	.03732	-.00035	-.00143	.03993	-.00563	.00000	.00000	-.00133	-.00011	-.00021	-.24512

ARC 97-747 0A33B B C M F W1 V NOM. RN/L

(REK002) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. XMRP = 32.3010 IN.
LREF = 14.2440 IN. YMRP = .0000 IN.
SREF = 20.1004 IN. ZMRP = 11.2500 IN.
SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -10.000
AILRON = .000 BDFLAP = -11.700
SPOBRK = 55.000 RUDDER = .000
ELEV-L = -10.000 ELEV-R = -10.000

RUN NO. 3/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
1.601	-1.495	-.15160	.16690	.16280	-.15390	.09050	590.00000	.12441	.03939	.12843	-.90880
1.601	-.146	-.09120	.16120	.16090	-.09170	.07960	590.00000	.12208	.03882	.12232	-.56654
1.601	2.948	.04950	.15780	.15500	.05760	.05590	590.00000	.11943	.03957	.11824	.31410
1.601	6.048	.10690	.16730	.14660	.20350	.03410	590.00000	.10773	.03887	.12858	1.11778
1.601	9.174	.31970	.19360	.14030	.34850	.01500	590.00000	.10008	.04022	.15405	1.65007
1.601	12.250	.44350	.23350	.13360	.48480	.00060	590.00000	.09207	.04153	.19284	1.90820
1.601	15.360	.57280	.28860	.12660	.62880	-.01020	590.00000	.08322	.04338	.24680	1.98452
1.601	18.480	.68990	.35560	.11890	.76710	-.01620	590.00000	.07385	.04503	.31319	1.93824
1.601	21.590	.80400	.43790	.11140	.90870	-.02040	590.00000	.06500	.04640	.39481	1.83372
1.601	24.710	.90770	.53350	.10530	1.04800	-.02390	590.00000	.05640	.04890	.48933	1.70122
1.601	27.820	.98110	.63070	.10000	1.16200	-.02900	590.00000	.05039	.04961	.58687	1.55353
GRADIENT	.04530	-.00168	.04809	-.00779	.00000	-.00204			.00026	-.00212	.27687

RUN NO. 4/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
2.002	-1.528	-.12440	.15920	.14980	-.12850	.05410	585.20000	.12214	.02766	.12553	-.81254
2.002	-.155	-.07260	.14670	.14650	-.07300	.04740	585.20000	.11874	.02776	.11894	-.49492
2.002	2.928	.04290	.14320	.14090	.05020	.03220	585.20000	.11218	.02872	.11459	.29967
2.002	6.026	.15620	.15070	.13350	.17120	.01820	585.20000	.10562	.02788	.12301	1.03652
2.002	9.103	.26480	.17030	.12630	.28840	.00840	585.20000	.09771	.02839	.14211	1.55448
2.002	12.190	.37400	.20300	.11950	.40850	.00460	585.20000	.09055	.02895	.17477	1.84208
2.002	15.300	.48430	.24990	.11330	.53300	.00080	585.20000	.08242	.03098	.22014	1.93740
2.002	18.420	.59670	.30300	.10110	.68860	-.00820	585.20000	.06725	.03385	.35159	1.81857
2.002	21.500	.79710	.46770	.09320	.91950	-.01360	585.20000	.05788	.03532	.43568	1.70393
2.002	24.620	.88930	.56110	.08320	1.04800	-.01570	585.20000	.04674	.03446	.53046	1.58496
2.002	27.710	.93753	-.00206	-.00197	.04008	-.00492			.00025	-.00228	.25997
GRADIENT	.03753	-.00206	.04008	-.00197	.04008	-.00492			.00025	-.00228	.25997



ARC 97-747 OAS38 B C H W I V MOM. RM/L (REK003) (04 APR 74)

REFERENCE DATA
 BREF = 2.4210 50.FT XMRP = 32.301 J IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0399 SCALE

PARAMETRIC DATA
 BETA = .000 ELEVON = 15.000
 AILRON = .000 BDFLAP = -11.700
 SPOBRK = 95.000 RUDDER = .000
 ELEV-L = 15.000 ELEV R = 15.000

RUN NO. 19/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
1.601	-1.465	-.05330	.17380	.17360	-.00970	-.01490	587.60000	.12798	.04562	.12819	-.03026
1.601	-1.185	.05140	.17270	.17280	-.05080	-.02480	587.60000	.12742	.04538	.12726	.29749
1.601	1.367	.11410	.17290	.17020	.11820	-.03480	587.60000	.12495	.04525	.12773	.65968
1.601	3.424	.20540	.17330	.16670	.21570	-.04540	587.60000	.12184	.04486	.13450	1.14543
1.601	5.498	.29630	.19190	.18260	.31340	-.06500	587.60000	.11916	.04344	.14864	1.54461
1.601	7.557	.38470	.21290	.16940	.40930	-.07930	587.60000	.11627	.04413	.16909	1.80727
1.601	9.625	.46930	.24030	.15840	.50280	-.09180	587.60000	.11297	.04543	.19545	1.95322
1.601	12.720	.59110	.29120	.13930	.64070	-.10450	587.60000	.10797	.04593	.24639	2.02986
1.601	15.830	.71960	.35890	.14890	.79020	-.12060	587.60000	.10321	.04569	.31485	2.09558
1.601	18.940	.83960	.43370	.14240	.93660	-.13150	587.60000	.09643	.04597	.39521	1.91494
1.601	22.050	.94550	.53140	.13600	1.08000	-.14010	587.60000	.08982	.04618	.48870	1.78729
1.601	25.170	1.05800	.64440	.13340	1.23100	-.14820	587.60000	.08431	.04909	.59986	1.64117
1.601	29.110	1.16590	.79690	.12900	1.40600	-.14370	587.60000	.07715	.05235	.75141	1.46197
GRADIENT		.04287	.05113	-.00145	.04588	-.00699	.00000	-.00151	-.00015	.00130	.23942

RUN NO. 9/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.002	-1.476	-.02330	.15720	.15650	-.02740	-.01890	560.40000	.12508	.03142	.12574	-.14864
2.002	-.802	.02270	.15510	.15520	-.02210	-.02490	560.40000	.12342	.03178	.12334	.14600
2.002	1.341	.07830	.15560	.15360	.08190	-.03230	560.40000	.12203	.03157	.12391	.50351
2.002	3.387	.15210	.16100	.15180	.16140	-.04190	560.40000	.12008	.03172	.12941	.94462
2.002	5.446	.22430	.17150	.14940	.23960	-.05180	560.40000	.11728	.03212	.13949	1.35836
2.002	7.501	.29790	.18690	.14640	.31970	-.05990	560.40000	.11489	.03151	.15564	1.59380
2.002	9.552	.36980	.20770	.14340	.39910	-.06610	560.40000	.11144	.03196	.17612	1.78083
2.002	12.650	.47860	.25020	.13940	.52180	-.07280	560.40000	.10634	.03306	.21803	1.91222
2.002	15.750	.59230	.30710	.13480	.65340	-.08100	560.40000	.10156	.03324	.27511	1.92863
2.002	18.840	.69980	.37550	.12950	.78350	-.08960	560.40000	.09704	.03246	.34485	1.86302
2.002	21.940	.80440	.45600	.12420	.91730	-.09000	560.40000	.09159	.03261	.42769	1.75669
2.002	25.040	.90730	.55630	.12000	1.05800	-.09120	560.40000	.08543	.03457	.52520	1.63115
2.002	29.970	1.02500	.69480	.11140	1.23300	-.09250	560.40000	.07653	.03487	.66416	1.47319
GRADIENT		.05606	.00084	-.00097	.03882	-.00473	.00000	-.00101	.00004	.00063	.22593

ARC 87-747 0A538 B C M F W I V MOM. RN/L

(REK004) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 80.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = 5.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 6/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
1.600	-1.504	-.08830	.16010	.15770	-.09240	.04760	592.80000	.11766	.03984	.12025	-.55110
1.600	-1.198	-.03070	.15590	.15260	-.03120	.03710	592.80000	.11598	.03982	.11609	-.15666
1.600	1.366	.04190	.15370	.15260	.04560	.02410	592.80000	.11298	.03962	.11404	.27303
1.600	5.415	.13200	.15670	.14850	.14110	.00980	592.80000	.10950	.03900	.11771	.84271
1.600	5.488	.22300	.16660	.14450	.23790	-.00470	592.80000	.10541	.03909	.12768	1.35856
1.600	7.589	.31320	.17460	.14170	.33490	-.01830	592.80000	.10184	.03986	.14518	1.69612
1.500	9.636	.39510	.20730	.13830	.42420	-.02780	592.80000	.09759	.04071	.16721	1.90526
1.600	12.710	.51420	.23220	.13290	.55710	-.03820	592.80000	.09070	.04220	.21104	2.03877
1.600	15.650	.64190	.31430	.12710	.70330	-.04990	592.80000	.08297	.04413	.27190	2.04160
	GRADIENT	.04492	-.00065	-.00190	.04760	-.00772	.00000	-.00172	-.00017	-.00047	.28497

RUN NO. 5/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.002	-1.498	-.07930	.14790	.14580	-.08310	.02400	574.90000	.11674	.02906	.11887	-.53582
2.002	-.203	-.03050	.14400	.14390	-.03100	.01760	574.90000	.11477	.02913	.11486	-.21172
2.002	1.325	.02310	.14210	.14160	.02640	.01040	574.90000	.11219	.02941	.11277	.16265
2.002	3.373	.05900	.14490	.13680	.10740	.00120	574.90000	.10897	.02983	.11310	.68366
2.002	5.441	.17370	.15160	.13440	.18750	-.00430	574.90000	.10523	.02917	.12252	1.14620
2.002	7.493	.24340	.16440	.13100	.26470	-.01590	574.90000	.10160	.02940	.13525	1.49244
2.002	9.581	.31910	.18240	.12680	.34500	-.02070	574.90000	.09710	.02970	.15317	1.74884
2.002	12.650	.42670	.21940	.12060	.46440	-.02440	574.90000	.09031	.03029	.18802	1.94516
2.002	15.730	.53660	.27000	.11440	.58970	-.02940	574.90000	.08337	.03103	.24012	1.98752
2.002	18.860	.64340	.33610	.10940	.71940	-.03500	574.90000	.07691	.03249	.30533	1.92043
2.002	21.950	.74740	.41250	.10360	.84750	-.04120	574.90000	.07000	.03360	.38171	1.81555
2.002	25.070	.84750	.50240	.09690	.95100	-.04910	574.90000	.06186	.03504	.47171	1.68344
2.002	28.990	.96390	.63090	.08470	1.14900	-.05560	574.90000	.05611	.03459	.60070	1.52781
	GRADIENT	.03647	-.00057	-.00144	.03897	-.00467	.00000	-.00160	-.00016	-.00073	.25002

ARC 97-747 OA53B B C M F W V MOM. RN/L

(REK005) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1050 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AILRON = 5.000 BDFLAP = -11.700
 SPU5RK = 55.000 RUDDER = .000
 ELEV-L = -5.000 ELEV-R = -15.000

RUN NO. 8/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.600	-1.469	-1.1440	.16760	.15390	-.14860	.06810	591.00000	.12570	.03820	.12947	-1.86099
1.600	-1.191	-.5850	.16210	.16180	-.08710	-.07770	591.00000	.12313	.03867	.12342	-1.53403
1.600	1.353	-.01620	.15920	.15850	-.01240	.06600	591.00000	.11999	.03851	.11966	-1.10204
1.600	3.419	.07330	.15960	.15400	.08460	.05060	591.00000	.11541	.03859	.12021	.47405
1.600	5.488	.16690	.16550	.14890	.16200	.03560	591.00000	.11034	.03846	.12724	1.00852
1.600	7.550	.25830	.16010	.14490	.27770	.02170	591.00000	.10538	.03952	.14095	1.42260
1.600	9.616	.34220	.20070	.15070	.37100	.00970	591.00000	.10050	.04070	.16057	1.70548
1.600	12.720	.45770	.24200	.13390	.50970	-.00340	591.00000	.09154	.04236	.20152	1.92597
1.600	15.830	.59290	.29940	.12630	.63210	-.01350	591.00000	.08204	.04426	.25662	1.98040
1.600	18.940	.75910	.36890	.11880	.74950	-.01940	591.00000	.07300	.04580	.32563	1.92207
1.600	22.050	.81970	.45290	.11200	.82970	-.02310	591.00000	.06419	.04781	.40852	1.81006
1.600	25.170	.92380	.55570	.10560	1.07000	-.02670	591.00000	.05574	.04986	.50532	1.67709
1.600	29.090	1.01900	.68050	.09340	1.22100	-.03100	591.00000	.04731	.05209	.62497	1.45694
GRADIENT	.04497	-.00175	-.00205	-.04774	-.00765	-.00000	.00000	-.00210	.00006	-.00182	.27423

RUN NO. 7/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-1.468	-1.2250	.15150	.14830	-.12630	.05400	572.00000	.12173	.02657	.12492	-1.80844
2.002	-1.208	-.07380	.14620	.14600	-.07440	.04770	572.00000	.11896	.02704	.11923	-1.50502
2.002	1.337	-.01610	.14260	.14300	-.01280	.04010	572.00000	.11565	.02735	.11532	-1.13509
2.002	3.390	.08140	.14330	.13940	.06970	.02990	572.00000	.11169	.02771	.11562	.42809
2.002	5.445	.13630	.14860	.13500	.14980	.02060	572.00000	.10681	.02819	.12054	.91729
2.002	7.504	.21070	.15980	.13090	.22980	.01200	572.00000	.10227	.02863	.13141	1.31884
2.002	9.563	.28260	.17450	.12510	.30770	.00760	572.00000	.09691	.02819	.14658	1.61990
2.002	12.660	.39230	.20900	.11800	.42850	.00350	572.00000	.08963	.02837	.18136	1.87626
2.002	15.750	.50280	.25900	.11280	.55430	-.00120	572.00000	.08165	.03115	.22904	1.94140
2.002	18.850	.60850	.32090	.10710	.67950	-.00520	572.00000	.07441	.03269	.28996	1.89610
2.002	21.940	.71010	.39440	.10050	.80610	-.01030	572.00000	.06853	.03397	.36290	1.80039
2.002	25.050	.80940	.48090	.09290	.93680	-.01540	572.00000	.05741	.03549	.44866	1.68330
2.002	28.950	.92250	.60270	.08100	1.09900	-.01790	572.00000	.04595	.03505	.57217	1.33016
GRADIENT	.03780	-.00164	-.00164	-.00164	-.00429	-.00496	.00000	-.00207	.00023	-.00186	.25506

ARC 97-747 0453B B C M F W L V WOK. RM/L

(REK006) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 88.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 7.500
 AIRLON = -7.500 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

RUN NO. 12/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CA	CN	CLWFO	Q	CAF	CAB	CFD	L/D
1.000	-1.481	-.04850	.16610	.16480	-.03280	.01630	588.60000	.12223	.04237	.18333	-.29211
1.000	-1.189	.00630	.16340	.16340	.00580	-.00680	588.60000	.12082	-.04238	.12080	.03680
1.000	1.360	.07440	.16270	.16090	.07820	-.00450	588.60000	.11854	.04236	.12036	-.43700
1.000	3.423	.16630	.16730	.15710	.17600	-.01940	588.60000	.11507	-.04203	.12337	.99389
1.000	5.439	.23750	.17820	.15270	.27340	-.03420	588.60000	.11148	.04122	.13712	1.44362
1.000	7.564	.34720	.19740	.15000	.37010	-.04850	588.60000	.10842	-.04158	.15620	1.75842
1.000	9.621	.43030	.22180	.14670	.46130	-.05840	588.60000	.10476	.04194	.18038	1.94559
1.000	12.720	.55410	.27080	.14210	.60010	-.07130	588.60000	.09319	-.04281	.22889	2.04650
1.000	15.830	.68020	.33540	.13710	.74590	-.08480	588.60000	.09307	.04403	.29351	2.05625
1.000	18.940	.80420	.41420	.13060	.89510	-.09540	588.60000	.08493	-.04567	.37086	1.94235
1.000	22.050	.91350	.50450	.12460	1.03600	-.10100	588.60000	.07895	.04555	.46211	1.71590
1.000	25.170	1.01600	.61050	.12060	1.17900	-.10600	588.60000	.07259	-.04801	.56713	1.56359
1.000	28.130	1.11700	.75490	.11570	1.34300	-.09710	588.60000	.06834	.05236	.72910	1.47356
GRADIENT		.04386	.00026	-.00159	.04671	-.00728	.00000	-.00148	-.00012	.00042	.26298

RUN NO. 11/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CL	CD	CA	CN	CLWFO	Q	CAF	CAB	CFD	L/C
2.002	-1.480	-.05150	.15170	.15030	-.03540	.00210	565.80000	.12012	.03018	.12149	-.33902
2.002	-2.202	-.00670	.14900	.14900	-.00720	-.00350	565.80000	.11872	-.03028	.11874	-.04479
2.002	1.336	.04960	.14820	.14700	.03310	-.01140	565.80000	.11633	.03067	.11733	.35504
2.002	3.391	.12620	.15210	.14430	.13490	-.02110	565.80000	.11390	-.03040	.12168	.82565
2.002	5.447	.19880	.16090	.14130	.21320	-.03030	565.80000	.11049	.03081	.13023	1.23370
2.002	7.498	.27030	.17490	.13810	.29080	-.03790	565.80000	.10766	-.03044	.14469	1.54571
2.002	9.536	.34330	.19450	.13480	.37090	-.04360	565.80000	.10341	.03139	.16335	1.76340
2.002	12.650	.45170	.23370	.12910	.49150	-.04870	565.80000	.09762	-.03148	.20299	1.92235
2.002	15.750	.56370	.28830	.12400	.62270	-.05330	565.80000	.09166	.03234	.25723	1.96158
2.002	18.850	.67470	.35390	.11880	.76350	-.06240	565.80000	.08577	-.03303	.32462	1.83589
2.002	21.940	.77610	.43490	.11340	.88240	-.07050	565.80000	.08005	.03315	.40395	1.72467
2.002	25.040	.87690	.52800	.10730	1.01800	-.08000	565.80000	.07271	-.03415	.49675	1.66054
2.002	28.930	.99210	.66030	.09710	1.18600	-.08770	565.80000	.06259	.03431	.60981	1.50274
GRADIENT		.03667	.00013	-.00125	.03926	-.00482	.00000	-.00131	.00006	.00007	.24172



ARC 97-747 0433B B C M F W I V HIGH RM/L

(REK007) (04 APR 74)

REFERENCE DATA

SREF = 2.4212 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2505 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLON = .000 BDFLAP = 16.300
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

PUN NO. 14/ 0 BN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-1.933	.01750	.17190	.01310	.01310	-.04110	927.20000	.13058	.04172	.13019	.15256
1.001	-1.97	.07331	.17100	.07270	.07270	-.05050	927.20000	.12934	.04195	.12909	.42847
1.001	.390	.17462	.17340	.14800	.14800	-.06350	927.20000	.12764	.04215	.13123	.03408
1.001	2.490	.23827	.18160	.15680	.15680	-.08030	927.20000	.12408	.04192	.13379	1.31142
1.001	.795	.33390	.19760	.15410	.15410	-.09950	927.20000	.12246	.04154	.13515	1.68951
1.001	7.704	.42370	.22130	.14290	.14290	-.11150	927.20000	.12068	.04222	.13013	1.91777
1.001	9.010	.51630	.28340	.15170	.15200	-.13070	927.20000	.11804	.04355	.12036	2.00791
1.001	12.990	.64800	.35170	.15810	.15810	-.14800	927.20000	.11411	.04339	.12587	2.07870
1.001	16.160	.77660	.43660	.16310	.16310	-.16410	927.20000	.10901	.04503	.12421	2.00945
1.001	19.340	.89960	.47550	.16510	1.05390	-.17520	927.20000	.10260	.04850	.12964	1.98944
1.001	22.930	1.01100	.50300	.16870	1.15600	-.18320	927.20000	.09775	.05165	.13239	1.74187
1.001	25.760	1.11800	.52280	.17100	1.31200	-.19350	927.20000	.09350	.05460	.13931	1.59761
1.001	29.730	1.22000	.53920	.17490	1.48600	-.20640	927.20000	.08370	.05710	.14061	1.42061
GRADIENT		.04425	.02601	-.00210	.04728	-.00769	.00000	-.00214	.00000	.00000	.24257

PUN NO. 13/ 0 BN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.310	-.06400	.15600	.15380	-.00810	-.04010	865.30000	.12490	.03090	.12507	-.02359
2.002	-2.210	.04190	.15450	.15470	.04190	-.04620	865.30000	.12374	.03096	.12318	.27104
2.002	1.332	.09820	.15620	.15390	.10180	-.05440	865.30000	.12259	.03131	.12452	.62855
2.002	3.407	.17590	.16280	.15210	.18480	-.06580	865.30000	.12067	.03143	.13143	1.07752
2.002	5.923	.25120	.17490	.14990	.26680	-.07740	865.30000	.11821	.03169	.14334	1.43652
2.002	7.601	.32760	.19200	.14700	.35010	-.08750	865.30000	.11655	.03045	.16183	1.77599
2.002	9.691	.40070	.21490	.14440	.43120	-.09460	865.30000	.11378	.03062	.16474	1.88455
2.002	12.040	.51640	.26170	.14040	.56170	-.10430	865.30000	.10965	.03175	.20076	1.97334
2.002	16.010	.63340	.32450	.13720	.69830	-.11580	865.30000	.10483	.03037	.25316	1.93201
2.002	19.170	.74670	.40270	.13330	.83750	-.12860	865.30000	.10092	.03438	.37034	1.83356
2.002	22.330	.85450	.49450	.13270	.97890	-.14150	865.30000	.09758	.03312	.46196	1.72824
2.002	25.500	.96030	.60150	.12600	1.12600	-.15820	865.30000	.09200	.03753	.56783	1.59626
2.002	29.500	1.08300	.75050	.12000	1.31200	-.17650	865.30000	.08275	.03723	.71808	1.44279
GRADIENT		.03663	.00146	-.00073	.03926	-.00523	.00000	-.00085	.00012	.00136	.22457

REFERENCE DATA

SREF = 2.4213 30.FT. ZMRP = 32.3010 IM.
LREF = 14.2440 IN. YMRP = .0000 IN.
BREF = 28.1004 IN. ZMRP = 11.2500 IM.
SCALE = .031 SCALE

RUN NO. 18/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFC	CLMFC	CAF	CAB	COF	L/D
1.000	-1.484	.01810	.17500	.17340	.01460	-.04270	601.10000	.13431	-.04109	.13389	.15038
1.000	-.198	.07830	.17450	.17480	.07770	-.03370	601.10000	.13339	.04141	.13312	.44865
1.000	1.360	.14440	.17610	.17260	.14860	-.06500	601.10000	.13110	-.04150	.13459	.82044
1.000	3.408	.23390	.18440	.17000	.24650	-.08150	601.10000	.12855	.04150	.14293	1.27955
1.000	5.472	.33040	.19950	.16710	.34850	-.09920	601.10000	.12637	.04073	.15098	1.63634
1.000	7.532	.42170	.22340	.16800	.44740	-.11610	601.10000	.12436	.04164	.16208	1.88729
1.000	9.628	.50750	.25280	.16450	.54260	-.12950	601.10000	.12179	.04251	.16794	2.00794
1.000	12.725	.63220	.30880	.16220	.68470	-.14670	601.10000	.11835	.04365	.17621	2.04746
1.000	15.860	.76360	.38250	.15930	.83910	-.16510	601.10000	.11427	.04450	.18324	1.99613
1.000	18.970	.88460	.47030	.15720	.96950	-.18000	601.10000	.10938	.04782	.18510	1.80536
1.000	22.080	.99550	.57160	.15550	1.13750	-.19320	601.10000	.10350	.05050	.18411	1.74133
1.000	25.230	1.10200	.68900	.15430	1.29150	-.19840	601.10000	.10572	.05358	.18410	1.59750
1.000	28.140	1.20300	.84190	.14950	1.46150	-.19440	601.10000	.09421	.05569	.17971	1.48907
GRADIENT	.04412	-.00115	.04721	-.00288	.05000	-.00122	.05000	.05185	.05000	.05185	.05185

RUN NO. 17/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFC	CLMFC	CAF	CAB	COF	L/D
2.002	-1.490	-.00370	.15900	.15880	-.00780	-.03970	585.40000	.12869	.03011	.12985	-.02303
2.002	-.203	.04270	.15780	.15790	.04210	-.04650	585.40000	.12766	.13024	.12751	.27047
2.002	1.330	.09980	.15920	.15680	.10350	-.05450	585.40000	.12546	.03014	.12383	.68723
2.002	3.389	.17630	.16570	.15500	.18580	-.06660	585.40000	.12442	.02782	.13524	1.05097
2.002	5.440	.25180	.17760	.15290	.26750	-.07870	585.40000	.12235	.03011	.14716	1.41802
2.002	7.489	.32320	.19420	.15200	.34370	-.08790	585.40000	.12028	.03022	.16442	1.65330
2.002	9.538	.39770	.21630	.14780	.42720	-.09610	585.40000	.11751	.03009	.18639	1.83406
2.002	12.600	.51130	.26500	.14440	.55650	-.10360	585.40000	.11357	.03033	.20296	1.94360
2.002	15.750	.62820	.32460	.14180	.69270	-.11000	585.40000	.11016	.03114	.20402	1.93589
2.002	18.860	.74230	.40160	.14010	.83220	-.11520	585.40000	.10583	.03347	.18482	1.84822
2.002	21.960	.84670	.49020	.13800	.96860	-.11480	585.40000	.10167	.03471	.47836	1.72727
2.002	25.060	.95000	.59530	.13690	1.11300	-.11620	585.40000	.09667	.03761	.15172	1.55886
2.002	28.970	1.07400	.74280	.12960	1.29950	-.11840	585.40000	.09159	.03761	.17065	1.44594
GRADIENT	.03694	-.00078	.03973	-.00252	.04000	-.00252	.04000	.05000	.05000	.05000	.05000



ARC 97-747 QAS3B B C M F W I Y LOW RM/L

(REK009) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 29.8" YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1524 IN. ZMRP = 11.2500 IN.
 SCALE = .5500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AILROM = .000 BOFLAP = 16.300
 SPDBRK = 95.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 19/ 0 RM/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.600	-1.450	.02270	.17590	-.17640	-.01850	-.04460	288.60000	-.13650	.03990	.13999	-.12900
1.600	-1.195	.07550	.17550	-.17580	-.07450	-.03990	288.60000	-.13574	.04006	.13948	-.43008
1.600	1.324	.14385	.17670	-.17330	.14780	-.06660	288.60000	-.13391	.04509	.13659	-.61370
1.600	3.356	.21380	.18465	-.18420	-.08370	-.08370	288.60000	-.13044	.04016	.14451	-.126647
1.600	5.395	.32150	.19360	-.18760	-.13890	-.09930	288.60000	-.12774	.03986	.15000	-.161689
1.600	7.451	.40840	.22210	-.18760	-.43360	-.11550	288.60000	-.12690	.04070	.18169	-.183916
1.600	9.444	.49385	.25130	-.16650	-.53050	-.13080	288.60000	-.12491	.04209	.20384	-.197241
1.600	12.480	.62290	.30690	-.16500	-.67450	-.15020	288.60000	-.12266	.04234	.26552	-.212994
1.600	15.540	.74950	.37710	-.18250	-.82320	-.16800	288.60000	-.11846	.04404	.33467	-.198770
1.600	18.600	.87370	.46410	-.18120	-.97600	-.18220	288.60000	-.11489	.04631	.42019	-.186243
1.600	21.640	.99850	.56090	-.18990	1.12500	-.19420	288.60000	-.11284	.04806	.51903	-.175212
1.600	24.690	1.08800	.67580	-.17880	1.27200	-.20380	288.60000	-.10572	.05208	.63829	-.161245
1.600	28.550	1.19600	.82650	-.13990	1.44600	-.20990	288.60000	-.09996	.05394	.77829	-.144802
GRADIENT	.04399	.00191	-.00126	-.04708	-.00816	-.00000	-.00000	-.00131	.00005	.00178	-.23721

RUN NO. 20/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-1.456	-.00050	.15780	-.15770	-.00450	-.03990	199.20000	-.13820	.02590	.13227	-.00312
2.002	-1.201	.00950	.15700	-.15720	-.04990	-.04460	199.20000	-.13040	.02680	.13022	-.32129
2.002	1.315	.10420	.15950	-.15660	-.10780	-.05490	199.20000	-.12937	.02723	.13181	-.65507
2.002	3.336	.18090	.16980	-.18980	-.18980	-.06640	199.20000	-.12752	.02748	.13285	-.108945
2.002	5.347	.24730	.17150	-.19320	-.26285	-.07770	199.20000	-.12687	.02633	.13581	-.139745
2.002	7.371	.30090	.19370	-.19300	-.34310	-.08620	199.20000	-.12596	.02754	.13696	-.165605
2.002	9.392	.39450	.21600	-.14670	-.42440	-.09390	199.20000	-.12185	.02685	.18947	-.182644
2.002	12.410	.50470	.25960	-.14900	-.54870	-.10560	199.20000	-.11829	.02675	.23345	-.194473
2.002	15.450	.61920	.31960	-.14310	-.68200	-.11810	199.20000	-.11652	.02758	.29351	-.193745
2.002	18.480	.72940	.39420	-.14270	-.81680	-.13320	199.20000	-.11251	.03019	.36562	-.185024
2.002	21.500	.82900	.47730	-.14030	-.94620	-.14820	199.20000	-.10949	.03081	.44865	-.173855
2.002	24.940	.93280	.57890	-.13990	1.08900	-.16620	199.20000	-.10984	.03346	.54837	-.161599
2.002	28.370	1.03400	.71980	-.13260	1.26900	-.18870	199.20000	-.09927	.03333	.69333	-.146401
GRADIENT	.03749	.00173	-.00096	-.04027	-.00364	-.00000	-.00000	-.00136	.00038	.00166	-.22604

ARC 97-747 OA338 B C M F W V NOM. RN/L

(REK010) (04 APR 74)

REFERENCE DATA

BRPF = 2.4210 88.FT. WMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRPF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

R/M NO. 22/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWD	θ	CAF	CAB	CDF	L/D
1.000	-1.539	-.06899	.16430	.16240	-.07330	.02520	590.10000	.11987	.04253	.12180	-4.1940
1.000	-.199	-.01000	.16099	.16090	-.01050	.01360	590.10000	.11826	.04264	.11830	-.06177
1.000	1.343	.05930	.15960	.15810	.06300	.00120	590.10000	.11579	.04231	.11723	.37157
1.000	3.407	.15000	.16360	.15440	.15930	-.01340	590.10000	.11287	.04153	.12215	.91710
1.000	2.4760	.17360	.17360	.14900	.26310	-.03320	590.10000	.10802	.04098	.13282	1.42587
1.000	7.342	.33790	.19240	1.4640	.36030	-.05000	590.10000	.15224	.04116	.15162	1.75637
1.000	9.809	.41830	.21600	.14310	.44870	-.05940	590.10000	.10104	.04206	.17432	1.93766
1.000	12.716	.54620	.26520	.13850	.59110	-.07480	590.10000	.08847	.04390	.22233	2.05969
1.000	15.790	.66990	.32910	.13440	.73420	-.08840	590.10000	.08635	.04774	.26339	1.53417
1.000	18.930	.79070	.40850	.13010	.88000	-.09800	590.10000	.07611	.04859	.45697	1.80234
1.000	22.100	.90480	.50200	.12470	1.02700	-.10600	590.10000	.06952	.05128	.55732	1.66231
1.000	25.310	1.00400	.60380	.12080	1.16300	-.11070	590.10000	.06145	.05455	.69399	1.47289
1.000	29.040	1.09700	.74170	.11600	1.31900	-.09960	590.10000	.06144	-.05321	.60012	.27106
GRADIENT	.04431	-.00010	-.00010	-.00163	.04712	-.05819	.05000	-.04144			

R/M NO. 21/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWD	θ	CAF	CAB	CDF	L/D
2.002	-1.554	-.06580	.15110	.14930	-.06980	.00710	563.00000	.11856	.03074	.12041	-4.3487
2.002	-.200	-.01710	.14760	.14760	-.01760	.00010	563.00000	.11656	.03104	.11662	-1.1570
2.002	1.333	.03960	.14600	.14510	.04300	-.00820	563.00000	.11409	.03101	.11506	.27121
2.002	3.380	.11450	.14870	.14170	.12310	-.01890	563.00000	.11121	.03049	.11828	.77016
2.002	5.491	.19240	.15700	.13790	.20630	-.03030	563.00000	.10749	.03041	.12675	1.23499
2.002	7.473	.26260	.17040	.13480	.28230	-.03920	563.00000	.10451	.03029	.14037	1.54093
2.002	9.350	.33580	.18070	.13040	.36240	-.04580	563.00000	.10056	.02974	.15939	1.77907
2.002	12.810	.44630	.22720	.12430	.48510	-.05330	563.00000	.09423	.03007	.19787	1.98413
2.002	15.730	.55850	.28250	.12060	.61420	-.06070	563.00000	.08615	.03243	.25136	1.97633
2.002	18.820	.66620	.35030	.11680	.74370	-.06830	563.00000	.08007	.03373	.31855	1.90105
2.002	21.920	.77120	.43110	.11210	.87640	-.07750	563.00000	.07690	.03590	.39851	1.78862
2.002	25.020	.87490	.52630	.10860	1.01500	-.08830	563.00000	.07007	.03673	.49278	1.66253
2.002	28.930	.98750	.63510	.09630	1.16100	-.09750	563.00000	.05945	.03664	.62282	1.50731
GRADIENT	.03659	-.00049	-.00049	-.00156	.03914	-.00528	-.00000	-.00150	-.00006	-.00006	.24507



ARC 97-747 Q433B B C M F W1 V NOM. RM/L

(REAR) (04 APR 74)

REFERENCE DATA

SHEP Z 2.4210 56. FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. ZMRP = .0000 IN.
 BREF = 28.1204 IN. ZMRP = 11.2500 IN.
 SCALE P .0300 SCALE

BETA = .000 ELEVON = .000
 AIRLON = .000 BOFLAP = -11.700
 SPBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 27/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-1.489	-0.09070	-0.15930	-0.1740	-0.09480	-0.04890	590.10000	.11807	.03933	.12049	-0.56741
1.000	-1.183	-0.03290	-0.15330	-0.1520	-0.03340	-0.03840	590.10000	.11609	.03911	.11519	-0.21187
1.000	1.354	-0.3360	-0.5330	-0.5240	-0.04020	-0.2680	590.10000	.11375	.03867	.11465	.23847
1.000	3.430	.1288	.17510	.14810	.13790	.01150	590.10000	.10569	.03841	.11774	.92514
1.000	5.507	.62180	.16540	.14340	.23670	-0.0410	590.10000	.10522	.03818	.12745	1.34083
1.000	7.559	.31210	.18320	.14060	.33350	-0.1860	590.10000	.10148	.03912	.14447	1.70318
1.000	9.642	.09180	.20900	.13650	.42060	-0.2360	590.10000	.09697	.03953	.16805	1.91103
1.000	12.720	.01270	.25070	.13160	.53530	-0.3750	590.10000	.08965	.04175	.20992	2.04554
1.000	15.830	.64090	.31310	.12630	.70200	-0.4810	590.10000	.08331	.04299	.27164	2.04765
1.000	17.910	.71930	.36120	.12230	.79560	-0.5480	590.10000	.07783	.04467	.34495	1.99146
1.000	18.940	.76000	.38760	.11990	.84470	-0.5720	590.10000	.07483	.04578	.43170	1.96102
1.000	22.080	.66850	.47400	.11290	.98300	-0.6640	590.10000	.06712	.04783	.53297	1.88527
1.000	25.180	.96960	.57610	.10880	1.12300	-0.6610	590.10000	.05097	.05189	.66518	1.49741
1.000	28.120	1.06500	.71170	.10310	1.27700	-0.4880	590.10000	.03121	.05009	.86518	1.49741
GRADIENT		.04466	-0.00071	-0.00189	.04734	-0.00758	.00000	-0.00170	-0.00019	-0.00049	.28404

RUN NO. 23/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-1.483	-0.08270	-0.14730	-0.14510	-0.08650	-0.02530	562.70000	.11613	.02897	.11833	-0.56138
2.002	-1.185	-0.03720	-0.14290	-0.14260	-0.03770	-0.01920	562.70000	.11392	.02868	.11405	-0.26055
2.002	1.374	-0.2270	-0.4110	-0.4030	-0.02610	-0.1110	562.70000	.11139	.02911	.11199	.16103
2.002	3.373	.09340	.14360	.13780	.10370	.00220	562.70000	.10847	.02933	.11438	.66414
2.002	5.444	.16880	.15050	.13300	.18230	-0.00750	562.70000	.10434	.02926	.12136	1.12145
2.002	7.480	.24160	.16340	.13090	.26080	-0.01470	562.70000	.10104	.02946	.13414	1.47307
2.002	9.550	.31830	.18070	.12640	.33790	-0.01920	562.70000	.09656	.02984	.15129	1.72790
2.002	12.620	.42350	.21710	.11930	.46070	-0.02410	562.70000	.08927	.03003	.18777	1.93998
2.002	15.700	.53160	.26030	.11440	.58430	-0.02860	562.70000	.08207	.03233	.23712	1.98157
2.002	18.870	.64060	.33610	.10900	.71420	-0.03400	562.70000	.07604	.03296	.30294	1.91711
2.002	21.940	.74520	.41100	.10270	.84480	-0.03950	562.70000	.06899	.03371	.37964	1.81363
2.002	25.040	.84610	.50150	.09650	.97680	-0.04670	562.70000	.06048	.03372	.46908	1.68733
2.002	28.930	.93780	.62820	.08490	1.14100	-0.05030	562.70000	.04956	.03534	.59332	1.52901
GRADIENT		.03685	-0.00070	-0.00149	.03934	-0.00479	.00000	-0.00158	-0.00008	-0.00076	.25439

ARC 97-747 0433B B C M F W I V MOM. RM/L

(REK012) (06 APR 74)

REFERENCE DATA

BREF = 2.4210 96.FT. YMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 26.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 26/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CC	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.000	-5.105	-0.3050	.15620	.15610	-.03090	.03430	595.70000	.11470	.04140	.11470	-.19795
1.000	-5.002	-0.3220	.15670	.15660	-.03260	.03690	595.70000	.11634	.04226	.11634	-.20817
1.000	-1.034	-0.3300	.15610	.15600	-.03350	.03860	595.70000	.11682	.03318	.11682	-.21474
1.000	-.013	-0.3180	.15560	.15550	-.03230	.03820	595.70000	.11657	.03693	.11657	-.20772
1.000	1.015	-0.3190	.15500	.15490	-.03240	.03880	595.70000	.11691	.03859	.11691	-.20793
1.000	3.071	-0.2960	.15720	.15710	-.03020	.03860	595.70000	.11752	.03058	.11752	-.19223
1.000	5.132	-0.2670	.15750	.15740	-.02750	.03750	595.70000	.11644	.04296	.11644	-.17344
1.000	5.772	-0.2570	.15710	.15700	-.02690	.03650	595.70000	.11568	.04132	.11568	-.16752
	GRADIENT	.00045	.00007	.00007	.00041	.00026	-1.00000	.00018	-.00011	.00018	.02267

RUN NO. 24/ 0 RM/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CC	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-5.595	-0.3230	.14480	.14470	-.03280	.03350	563.70000	.11092	.03368	.11402	-.22668
2.002	-5.471	-0.3460	.14550	.14540	-.03310	.03680	563.70000	.11511	.02969	.11351	-.24142
2.002	-1.456	-0.3580	.14430	.14420	-.03300	.03910	563.70000	.11501	.02231	.11351	-.24373
2.002	-.389	-0.3560	.14330	.14320	-.03160	.03910	563.70000	.11490	.02870	.11430	-.24209
2.002	.640	-0.3460	.14330	.14310	-.03320	.03950	563.70000	.11434	.02276	.11434	-.24538
2.002	2.719	-0.3320	.14310	.14290	-.03360	.03850	563.70000	.11395	.02392	.11298	-.23553
2.002	4.732	-0.2830	.14250	.14190	-.02890	.03630	563.70000	.11122	.03059	.11122	-.23366
2.002	5.994	-0.2650	.14110	.14100	-.02710	.03440	563.70000	.10974	.03125	.10974	-.19220
	GRADIENT	.00077	-.00038	-.00039	.00075	-.00010	.00000	-.00042	.00013	-.00042	.02463

ARC 97-747 QAS38 B C M F W I V MON. RM/L (REK013) (04 APR 74)

REFERENCE DATA

MREF = 2.4210 36.FT. MHP = 32.3010 IM.
 LREF = 14.2440 IM. YHP = .0000 IM.
 BREF = 20.1054 IM. ZHP = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 A:LRON = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUOGR = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 29/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CGF	L/O
1.000	-3.048	.41920	.21490	.13770	.45050	-.03150	595.10000	.09545	.04225	-.17227	1.96286
1.000	-3.016	.41310	.21370	.13780	.44250	-.02770	595.10000	.09376	.04204	.17111	1.93708
1.000	-.996	.41190	.21240	.13650	.44210	-.02810	595.10000	.09624	.04026	.17169	1.95173
1.000	.024	.41300	.21170	.13570	.44360	-.02860	595.10000	.09646	.03924	.17206	1.96244
1.000	1.038	.41340	.21220	.13590	.44420	-.02810	595.10000	.09676	.03912	-.17244	1.96167
1.000	3.062	.41370	.21260	.13760	.44190	-.02670	595.10000	.09694	.04565	.17272	1.94696
1.000	5.104	.42050	.21570	.13850	.45220	-.02960	595.10000	.09713	.04117	-.17418	1.96213
1.000	6.927	.41880	.21310	.13610	.44970	-.02780	595.10000	.09533	.04577	.17197	1.97638
GRADIENT	.00046	-.00000	-.00045	.00045	.00015	-.00000		.00020	-.00026	.00028	.00195

RUN NO. 25/ 0 RM/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CGF	L/O
2.002	-3.428	.33490	.18960	.12830	.36290	-.02090	562.70000	.09639	.03191	.15794	1.76961
2.002	-3.393	.33090	.18910	.12830	.35880	-.01970	562.70000	.09707	.03123	-.07900	1.75489
2.002	-1.343	.33090	.18710	.12540	.35810	-.02220	562.70000	.09633	.03007	.15765	1.77170
2.002	-.343	.33030	.18610	.12550	.35770	-.02030	562.70000	.09559	.02991	.15625	1.77954
2.002	.659	.33120	.18590	.12510	.35860	-.01990	562.70000	.09555	.02935	.15637	1.78097
2.002	2.693	.32990	.18570	.12510	.35720	-.01940	562.70000	.09441	.02969	.15500	1.78187
2.002	4.728	.33490	.18620	.12490	.36220	-.02010	562.70000	.09246	.02934	.15395	1.80316
2.002	6.769	.33590	.18530	.12390	.36310	-.02200	562.70000	.09020	.02960	.15189	1.81627
2.002	8.801	.34070	.18340	.12310	.36780	-.02350	562.70000	.08844	.02966	.15096	1.84139
GRADIENT	.00038	-.00000	-.00039	.00031	.00001	-.00000		-.00055	.00016	-.00049	.00516

(RECORD) (04 APR 74)

ARC 97-747 04538 B C M F W1 Y NOM. RM/L

REFERENCE DATA

REF Z 2.4210 90.FT. ZMRP Z 32.3010 IN.
 LREF Z 14.2440 IP. YMRP Z .0000 IN.
 BRP Z 28.1004 IN. ZMRP Z 11.2500 IN.
 SCALE Z .0000 SCALE

ALPHA Z 20.000 ELEVON Z .000
 AIRCRN Z .000 BDELAP Z -11.700
 SPDRK Z 55.000 RUDDER Z .000
 ELEV-L Z .000 ELEV-R Z .000

RUN NO. 30/ 0 RM/L Z 2.75 GRADIENT INTERVAL Z -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	Q	CAF	CAB	CGF	L/D
1.000	-5.047	.01800	.42490	.11800	.91390	-.03880	595.40000	-.06834	.04366	.37679	1.96372
1.000	-2.987	.01420	.42590	.11410	.91180	-.03860	595.40000	.07010	.04400	.37775	1.95142
1.000	-.949	.01510	.42780	.11610	.91140	-.03880	595.40000	.07081	.04529	.37826	1.94582
1.000	.000	.01440	.42830	.11590	.91280	-.03850	595.40000	.07051	.04529	.37845	1.94320
1.000	1.066	.01440	.42830	.11590	.91290	-.03930	595.40000	.07034	.04536	.37851	1.94283
1.000	3.127	.01340	.42740	.11460	.91350	-.03840	595.40000	.06992	.04468	.37814	1.94393
1.000	5.168	.01110	.42640	.11290	.91470	-.03690	595.40000	.06873	.04420	.37740	1.95934
1.000	7.218	.01430	.42550	.10360	.91010	-.03650	595.40000	.06569	.04291	.37500	1.97925
1.000	9.271	.01370	.41650	.10490	.90810	-.03870	595.40000	.06239	.04191	.36978	1.99789
1.000	GRADIENT	.00024	.00025	.00006	.00032	.00001	-.00000	-.00004	.00011	.00007	-.00012

RUN NO. 26/ 0 RM/L Z 2.75 GRADIENT INTERVAL Z -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFO	Q	CAF	CAB	CGF	L/D
2.002	-5.423	.09990	.37030	.10320	.78470	-.03370	580.90000	.07123	.03197	.33532	1.92162
2.002	-3.365	.09640	.37120	.10310	.78220	-.03740	580.90000	.07263	.03247	.33510	1.91805
2.002	-1.320	.09510	.37240	.10260	.78130	-.03390	580.90000	.07273	.03367	.33516	1.89913
2.002	-.324	.09430	.37110	.10360	.78010	-.03650	580.90000	.07227	.03333	.33402	1.90398
2.002	.709	.09540	.37130	.10360	.78130	-.03600	580.90000	.07161	.03349	.33410	1.90060
2.002	2.741	.09680	.37010	.10360	.78220	-.03800	580.90000	.06976	.03344	.33308	1.91713
2.002	5.772	.09880	.36800	.10190	.78360	-.03890	580.90000	.06831	.03390	.33310	1.92844
2.002	8.804	.09730	.36730	.09880	.78300	-.04460	580.90000	.06541	.03441	.32966	1.94951
2.002	10.879	.09100	.36400	.09650	.78390	-.04690	580.90000	.06221	.03429	.32117	1.96109
2.002	GRADIENT	.00036	-.00035	-.00050	.00022	-.00022	-.00000	-.00004	.00014	-.00012	.00009

ARC 97-747 04338 B C M F W I V LOW RN/L

(REK015) (04 APR 74)

REFERENCE DATA

SREF = 2.4813 86-FT. XMRP = 38.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPDWRK = 95.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO 36/ 0 RN/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.601	-1.515	-0.0890	.15630	.15390	-.09370	.04460	254.90000	.11858	.03732	.12102	-.56359
1.601	-1.188	-.02940	.15380	.15370	-.02990	-.03330	254.90000	.11653	.03717	-.11663	-.19113
1.601	1.331	-.03820	.15150	.15060	.04170	.02130	254.90000	.11389	.03671	.11403	.25204
1.601	3.349	.12920	.15430	.14640	.13800	.00580	254.90000	.10964	.03676	-.11731	.83789
1.601	5.377	.21980	.16270	.14180	.23010	-.00890	254.90000	.10490	.03690	.12600	1.32605
1.601	7.398	.30020	.17910	.13300	.32080	-.02020	254.90000	.10103	.03797	-.14149	1.67587
1.601	9.428	.38880	.20280	.13640	.41680	-.03330	254.90000	.09730	.03910	.16426	1.91698
1.601	12.470	.50920	.24730	.13150	.55060	-.04790	254.90000	.09171	.03979	-.20844	2.05920
1.601	15.510	.63430	.30780	.12690	.69350	-.06080	254.90000	.08477	.04213	.26713	2.06129
1.601	18.560	.74880	.36240	.12230	.83100	-.06890	254.90000	.07790	.04440	-.33835	1.96836
1.601	21.610	.86450	.46740	.11630	.97590	-.07670	254.90000	.07074	.04556	.42518	1.84900
1.601	24.659	.96730	.56630	.11170	1.11600	-.08180	254.90000	.06401	.04769	-.52364	1.70680
1.601	28.469	1.06100	.69590	.10610	1.26400	-.07010	254.90000	.05557	.05053	.65120	1.52478
GRADIENT	.04494	-.00078	-.00197	.04759	-.00795	.00000	.00000	-.00184	-.00013	-.00066	.28898

RUN NO. 35/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-1.521	-.08940	.14590	.14360	-.08920	.02210	201.50000	.11907	.02453	.12139	-.58497
2.002	-1.198	-.03790	.14200	.14190	-.03840	.01550	201.50000	.11729	.02461	-.11742	-.26691
2.002	1.315	.01770	.14040	.13990	.02090	.00870	201.50000	.11416	.02374	.11461	.12601
2.002	3.334	.09490	.14250	.13670	.10350	-.00120	201.50000	.11110	.02560	-.11691	.66599
2.002	5.351	.16600	.14870	.13250	.17920	-.01090	201.50000	.10634	.02616	.12239	1.11726
2.002	7.374	.23730	.16200	.12620	.25620	-.01770	201.50000	.10333	.02687	.13536	1.46520
2.002	9.408	.30850	.17900	.12260	.33340	-.02340	201.50000	.09911	.02709	.15227	1.72226
2.002	12.420	.41850	.21230	.11730	.45440	-.02830	201.50000	.09089	.02641	.18650	1.97158
2.002	15.440	.52780	.26270	.11270	.57870	-.03560	201.50000	.08555	.02715	.23653	2.00918
2.002	18.460	.63460	.32780	.10980	.70580	-.04390	201.50000	.07948	.03032	.28910	1.93560
2.002	21.510	.74100	.40400	.10510	.83760	-.04930	201.50000	.07294	.03116	.37498	1.83454
2.002	24.540	.84010	.49200	.09860	.96850	-.06260	201.50000	.06603	.03237	.46231	1.70766
2.002	28.330	.95170	.61270	.09280	1.12800	-.07120	201.50000	.05586	.03194	.58446	1.55284
GRADIENT	.03716	-.00065	-.00142	.03960	-.00477	.00000	.00000	-.00168	-.00026	-.00091	.25841

ARC 97-747 04538 B C M F W V MOM. RN/L

(REK016) (04 APR 74)

REFERENCE DATA

BREF = 2.4810 96.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = .000
 SPOBRK = 99.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CC	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.000	-1.486	-.08030	.15860	-.09040	-.03250	.04250	602.30000	.11660	.03982	.11098	-.54395
1.000	-.216	-.03190	.15520	-.03250	-.03250	.03290	602.30000	.11556	.03964	.11568	-.20548
1.000	1.387	.04140	.15160	.04510	.04510	.01990	602.30000	.11261	.03899	.11367	.27193
1.000	3.441	.13340	.15610	.14780	.14250	.00430	602.30000	.10881	.03899	.11716	.85448
1.000	9.593	.22370	.16390	.14350	.24050	-.01140	602.30000	.10433	.03917	.12692	1.35992
1.000	7.543	.31600	.16390	.14080	.33740	-.02660	602.30000	.10089	.03991	.14431	1.71857
1.000	9.645	.39810	.20650	.13690	.42700	-.03310	602.30000	.09635	.04055	.16652	1.92744
1.000	12.720	.52340	.25280	.13150	.56620	-.04790	602.30000	.08992	.04228	.21150	2.07082
1.000	15.820	.64660	.31490	.12660	.70800	-.05930	602.30000	.08182	.04478	.27173	2.05411
1.000	18.980	.77040	.39300	.12100	.85640	-.06850	602.30000	.07426	.04674	.34876	1.96075
1.000	22.060	.87880	.48050	.11530	.99490	-.07320	602.30000	.06692	.04638	.43569	1.82877
1.000	25.190	.98520	.58560	.11030	1.14100	-.07840	602.30000	.06044	.05006	.54033	1.68275
1.000	29.120	1.07990	.72390	.10460	1.29300	-.06540	602.30000	.05172	.05288	.67441	1.49689
GRADIENT	.04474	-.00054	-.00103	.04741	-.00779	.00000	.00000	-.00164	-.00019	-.00035	28337

RUN NO. 34/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CC	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.549	-.08420	.14680	-.14440	-.08610	.02220	589.40000	.11600	.02840	.11834	-.57361
2.002	-.206	-.03410	.14220	-.14210	-.03460	.01540	589.40000	.11320	.02890	.11332	-.23959
2.002	1.330	.02200	.14070	.14010	.02530	.00750	589.40000	.11137	.02873	.11193	.15671
2.002	3.395	.09820	.14340	.13750	.10550	-.00330	589.40000	.10779	.02951	.11391	.68424
2.002	5.472	.17470	.15050	.13320	.18820	-.01320	589.40000	.10387	.02933	.12135	1.16010
2.002	7.503	.24600	.16330	.12980	.26520	-.02100	589.40000	.10097	.02833	.13474	1.50614
2.002	9.567	.32000	.18100	.12530	.34560	-.02670	589.40000	.09615	.02915	.15223	1.76782
2.002	12.660	.43160	.21800	.11810	.46880	-.03250	589.40000	.08992	.02998	.18960	1.97989
2.002	15.760	.54500	.27180	.11360	.59840	-.03880	589.40000	.08226	.03134	.24170	2.00463
2.002	18.870	.65380	.33860	.10890	.72820	-.04540	589.40000	.07602	.03288	.30745	1.93123
2.002	21.970	.76040	.41840	.10350	.86170	-.05260	589.40000	.06935	.03415	.38670	1.81736
2.002	25.080	.86300	.51170	.09770	.99850	-.06070	589.40000	.06189	.03590	.47922	1.68631
2.002	28.980	.97840	.64540	.08610	1.16600	-.06630	589.40000	.05054	.03356	.60915	1.52798
GRADIENT	.03685	-.00061	-.00142	.03932	-.00516	.00000	.00000	-.00161	-.00020	-.00079	25499

ARC 97-747 04338 B C W F W HIGH RN/L

(REK017) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. XMRP = 32.3510 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 ZREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 AIRLON = .000 80FLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 32/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFW	Q	CAF	CAB	CDF	L/D
1.600	-1.508	-0.08540	.15830	.13600	-.08960	.04150	921.00000	.11578	.04022	.11809	-.53987
1.600	-.172	-.02240	.15410	.15400	-.02590	.03080	921.00000	.11417	.03993	.11425	-.18509
1.600	1.393	.04360	.15220	.15110	.04730	.01820	921.00000	.11176	.07354	.11288	.28654
1.600	3.483	.13880	.15570	.14710	.14600	.05400	921.00000	.10783	.03927	.11550	.87858
1.600	5.978	.23140	.16100	.14250	.24640	-.01180	921.00000	.10330	.03935	.12676	1.39486
1.600	7.738	.32650	.18510	.13940	.34840	-.02700	921.00000	.09943	.03997	.14544	1.76425
1.600	9.813	.41000	.20510	.13610	.44000	-.03840	921.00000	.09533	.04577	.16894	1.98237
1.600	13.020	.54500	.25330	.12930	.58940	-.05360	921.00000	.08867	.04113	.21918	2.10224
1.600	16.170	.66760	.32370	.12590	.73130	-.06280	921.00000	.08019	.04481	.28067	2.08219
1.600	19.320	.78150	.39970	.11860	.86980	-.06700	921.00000	.07172	.04888	.35543	1.93547
1.600	22.530	.89430	.49350	.11310	1.01500	-.07100	921.00000	.06414	.04896	.44816	1.81238
1.600	25.710	.99720	.60580	.10880	1.15900	-.07320	921.00000	.05708	.05152	.55482	1.66514
1.600	29.700	1.09200	.73340	.10150	1.31500	-.07630	921.00000	.04760	.05390	.69287	1.47823
GRADIENT	.04448	-.00047	-.00180	.04716	-.00749	.00000	.00000	-.00160	-.00020	-.00026	-.28463

RUN NO. 31/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	CDF	L/D
2.002	-1.518	-.08000	.14630	.14410	-.08440	.02110	868.90000	.11503	.02907	.11112	-.55066
2.002	-.232	-.03270	.14190	.14170	-.03330	.01500	868.90000	.11240	.02890	.11253	-.23073
2.002	1.371	.02690	.13990	.13920	.03030	.00660	868.90000	.10979	.02941	.11548	.19274
2.002	3.423	.10030	.14290	.13670	.10870	-.00340	868.90000	.10673	.02997	.11304	.70192
2.002	5.543	.17620	.15060	.13280	.18990	-.01270	868.90000	.10317	.02963	.12103	1.17049
2.002	7.811	.25050	.16320	.12860	.26990	-.02080	868.90000	.09920	.02940	.13407	1.53473
2.002	9.899	.32330	.18130	.12490	.34930	-.02550	868.90000	.09506	.02924	.15255	1.78290
2.002	12.830	.43680	.21900	.11650	.47450	-.03130	868.90000	.08687	.02963	.19007	1.99482
2.002	15.990	.55060	.27400	.11170	.60480	-.03810	868.90000	.07999	.03171	.24350	2.00973
2.002	19.140	.66020	.34260	.10720	.73600	-.04430	868.90000	.07379	.03341	.31103	1.92697
2.002	22.320	.76740	.42470	.10190	.87120	-.05170	868.90000	.06886	.03464	.39271	1.80662
2.002	25.460	.87030	.51930	.09480	1.00900	-.06010	868.90000	.06333	.03647	.48647	1.67369
2.002	29.470	.98440	.63190	.08330	1.17800	-.06960	868.90000	.04724	.03606	.62066	1.50999
GRADIENT	.03661	-.00063	-.00149	.03908	-.00498	.00000	.00000	-.00166	.00017	-.00078	-.25434

PARAMETRIC DATA

ARC 97-747 04338 B C M F W I V LOW RN/L

(REK018) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 80-FT. ZMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .9300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = .000 BOFLAP = -11.700
 SPBRK = 55.000 RUBBER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 37/ 0 RN/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CH	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.475	-1.1980	.16470	.17980	-20.330	.11980	254.30000	.14302	.03638	.14820	-1.07480
1.601	-1.204	-1.13940	.17750	.17700	-1.4010	.10910	254.30000	.13938	.03782	.13987	-1.78374
1.601	1.319	-0.97000	.17240	.17400	-0.6600	.09685	254.30000	.13461	.03939	.13506	-1.40388
1.601	3.340	-0.20600	.17010	.16860	.03040	.08230	254.30000	.12883	.03977	.13038	-1.25680
1.601	5.370	.11260	.17360	.18235	.12840	.06770	254.30000	.12287	.03943	.13435	-.64887
1.601	7.395	.19380	.18360	.15680	.21780	.05460	254.30000	.11822	.03858	.14527	1.56690
1.601	9.425	.27990	.20130	.15270	.30910	.04350	254.30000	.11171	.24099	.14082	1.39080
1.601	11.450	.36310	.22490	.14790	.40350	.03280	254.30000	.10386	.74204	.18365	1.62382
1.601	13.450	.43760	.29030	.13590	.59370	.01660	254.30000	.09300	.54290	.24890	1.85246
1.601	15.510	.51760	.35430	.12460	.73010	.01110	254.30000	.08320	.74540	.31126	1.93797
1.601	16.560	.63120	.43390	.12220	.87010	.00780	254.30000	.07461	.54759	.38968	1.76271
1.601	21.600	.76400	.43360	.11430	1.00600	.00490	254.30000	.06322	.54978	.47885	1.65562
1.601	24.650	.86750	.64610	.10650	1.15800	.01665	254.30000	.05356	.55054	.60138	1.49747
1.601	28.480	.96740	.80227	.09850	1.4850	-.00778	.00000	-.05296	.00000	-.05365	-.24514

RUN NO. 38/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.003	-1.460	-1.15480	.16440	.16040	-1.19000	.07510	197.40000	.13666	.02374	.14066	-.94199
2.003	-1.199	-1.10720	.15800	.15760	-1.0780	.06900	197.40000	.13296	.02464	.13333	-.67892
2.003	1.314	-0.95120	.15345	.15460	-.54760	.06120	197.40000	.12954	.02556	.12792	-.33318
2.003	3.331	.02330	.15110	.14950	.03210	.05210	197.40000	.12375	.02375	.12541	-.15458
2.003	5.348	.09840	.15310	.14330	.11230	.04130	197.40000	.11694	.02636	.12690	-.64269
2.003	7.368	.17180	.16180	.13840	.19110	.03340	197.40000	.11246	.02594	.13604	1.56188
2.003	9.387	.24580	.17520	.13270	.27110	.02820	197.40000	.10573	.02697	.14833	1.40360
2.003	12.410	.33710	.20680	.12520	.39350	.02350	197.40000	.09936	.02694	.18047	1.72772
2.003	15.450	.46370	.25190	.11930	.51410	.02270	197.40000	.09140	.02790	.22506	1.84065
2.003	16.480	.57080	.30680	.11200	.63920	.01730	197.40000	.08303	.02297	.28136	1.94804
2.003	21.510	.67370	.37880	.10470	.81280	.01280	197.40000	.07453	.03067	.33029	1.18357
2.003	24.540	.76970	.45760	.09660	.89020	.00730	197.40000	.06462	.03196	.42851	1.68197
2.003	28.350	.88350	.57460	.08820	1.05200	.00350	197.40000	.05346	.03174	.54660	1.54103
GRADIENT	.93714	-.00271	-.00226	-.03983	-.00482	.00000		-.00286	.00000	-.00311	-.82961

ARC 97-747 04338 B C M F W I V MOM. RN/L

(REK019) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 88-FT. YMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 BREF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 42/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	COF	L/D
1.001	-1.511	-.20630	.18620	.18070	-.21110	.11980	606.40000	.14140	.03922	.14700	-1.10772
1.001	-.219	-.14640	.17910	.17850	-.14710	.10970	606.40000	.13830	.04020	.13887	-.81768
1.001	1.342	-.07640	.17410	.17590	-.07230	.09830	606.40000	.13509	.04081	.13336	-.43868
1.001	3.409	.01700	.17240	.17110	.02730	.08300	606.40000	.13010	.04100	.13149	.09905
1.001	5.478	.11110	.17590	.15450	.12740	.06730	606.40000	.12354	.04096	.13514	.63165
1.001	7.545	.19810	.18690	.15930	.22090	.05440	606.40000	.11858	.04072	.14656	1.05962
1.001	9.615	.28740	.20440	.15360	.31750	.04210	606.40000	.11240	.04120	.16386	1.40349
1.001	12.730	.41910	.24500	.14660	.46280	.02620	606.40000	.10207	.04453	.20154	1.71585
1.001	15.830	.54720	.29730	.13670	.60760	.01820	606.40000	.09196	.04474	.25422	1.84104
1.001	18.950	.66450	.36480	.12930	.74700	.01070	606.40000	.08179	.04751	.31994	1.82124
1.001	22.070	.77570	.44530	.12210	.88660	.00780	606.40000	.07195	.05015	.39981	1.73826
1.001	25.190	.88290	.54150	.11420	1.02900	.00530	606.40000	.06270	.05150	.49470	1.63039
1.001	29.090	.98950	.67050	.10670	1.18700	.00300	606.40000	.05427	.05243	.62452	1.46999
GRADIENT	.04531	-.00273	-.00194	.04838	-.00229	-.00745	.00000	-.00229	.00035	-.00306	.24587

RUN NO. 39/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	COF	L/D
2.003	-1.502	-.16170	.16650	.16220	-.16600	.07850	565.90000	.13438	.02782	.13869	-.97115
2.003	-.220	-.11350	.15960	.15920	-.11410	.07230	565.90000	.13118	.02802	.13162	-.71091
2.003	1.328	-.05480	.15410	.15550	-.05120	.06390	565.90000	.12706	.02824	.12584	-.55598
2.003	3.383	.02190	.15210	.15050	.03080	.05360	565.90000	.12191	.02859	.12352	.14360
2.003	5.435	.09680	.15580	.14590	.11110	.04410	565.90000	.11699	.02891	.12699	.62132
2.003	7.490	.17100	.16490	.14130	.19100	.03550	565.90000	.11129	.03001	.13523	1.03612
2.003	9.550	.24660	.17690	.13550	.27290	.02970	565.90000	.10493	.03057	.14875	1.37864
2.003	12.640	.35750	.21000	.12660	.39480	.02500	565.90000	.09585	.03075	.17992	1.70314
2.003	15.740	.46640	.25570	.11960	.51830	.02210	565.90000	.08768	.03192	.22499	1.82358
2.003	18.840	.57400	.31530	.11300	.64510	.01810	565.90000	.07963	.03337	.28369	1.82084
2.003	21.940	.67810	.38690	.10550	.77360	.01250	565.90000	.07079	.03471	.35470	1.75277
2.003	25.040	.77590	.47010	.09750	.90200	.00860	565.90000	.06133	.03517	.45734	1.65059
2.003	28.930	.89140	.58960	.08490	1.06500	.00600	565.90000	.04931	.03559	.55834	1.51153
GRADIENT	.03761	-.00290	-.00241	.04030	-.00313	-.00000	.00000	-.00256	.00016	-.00306	.22927

(RECORD) (04 APR 74)

ARC 97-747 04538 B C M F W1 V HIGH RN/L

REFERENCE DATA

SREP = 8.4210 88. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = .000 BDFLAP = -11.700
 SDBBRK = 55.000 RUCCER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 41/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CFD	L/D
1.001	-1.538	-20040	18390	17840	-20530	11760	911.10000	13668	04172	14214	-1.09029
1.001	-2.218	-14980	17670	17820	-14150	10710	911.10000	13377	04243	13431	-1.79681
1.001	1.365	-06970	17280	17440	-06560	09350	911.10000	13253	04187	13593	-1.40359
1.001	3.479	02550	17150	16970	03560	08310	911.10000	12792	04178	12984	-1.14727
1.001	5.573	11830	17610	16380	06550	06550	911.10000	12215	04165	13467	-0.67146
1.001	7.681	21080	18840	15850	03410	05150	911.10000	11706	04144	14729	1.11917
1.001	9.784	29930	20690	15300	03010	03780	911.10000	10971	04329	16421	1.44680
1.001	12.960	43260	24850	14110	04750	02430	911.10000	10101	04459	20553	1.74168
1.001	16.130	56240	30430	13600	06240	01400	911.10000	09009	04591	26013	1.34869
1.001	19.310	67760	37290	1290	06280	01020	911.10000	07965	04925	32741	1.81686
1.001	22.490	79190	45820	12040	06690	00720	911.10000	06942	05098	41103	1.72840
1.001	25.690	89960	55760	11250	1.05300	00470	911.10000	05974	05276	51031	1.61358
1.001	29.650	99875	68850	10420	1.20900	01820	911.10000	05046	05374	64191	1.45288
GRADIENT	04505	-00236	-00170	-00170	04808	-00747	00000	-00167	-00003	-00231	02481

RUN NO. 40/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CFD	L/D
2.003	-1.538	-16100	16540	16110	-16540	07700	872.90000	13353	02807	13742	-1.97352
2.003	-2.230	-11360	15860	15820	-11420	07100	872.90000	12990	02840	13026	-1.7578
2.003	1.338	-05400	15290	15410	-05040	06310	872.90000	12554	02856	12433	-1.50311
2.003	3.420	02470	15140	14970	03370	05270	872.90000	12056	02914	12236	-1.63116
2.003	5.506	10050	15520	14450	11490	04230	872.90000	11537	02953	12566	-0.64710
2.003	7.601	17610	16470	13990	19630	03390	872.90000	10962	03028	13462	1.06945
2.003	9.697	25000	17910	13440	07665	02920	872.90000	10384	03056	14895	1.39616
2.003	12.840	36590	21200	12600	09090	02480	872.90000	09490	03110	18162	1.71215
2.003	16.000	47590	25990	11870	02910	02150	872.90000	08661	03209	22910	1.83074
2.003	19.150	58650	32180	11160	05960	01640	872.90000	07812	03348	29018	1.82252
2.003	22.310	69280	39670	10390	07910	01130	872.90000	06953	03487	36433	1.74652
2.003	25.470	79340	48310	09500	09670	00670	872.90000	05987	03610	45055	1.64216
2.003	29.420	90560	60630	08320	1.08700	00610	872.90000	04757	03583	57538	1.49386
GRADIENT	03754	-00279	-00232	-00232	04023	-00492	00000	-00253	-00001	-00300	02351

APC 97-747 04338 B C M F VI V MOM. RM/L

(REK021) (04 APR 74)

REFERENCE DATA

BREF = 2.4213 80.FT. 2MRP = 32.3010 IM.
 LREF = 14.2443 IM. 7MRP = .0500 IM.
 BREF = 26.1554 IM. 2MRP = 11.2550 IM.
 SCALE = .0395 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AIRLON = 10.000 BDFLAP = -11.700
 SPDBRK = 55.000 PWDR = .000
 ELEV-L = .000 ELEV-R = -20.000

RUN NO. 44/ 0 RM/L = 2.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.000	-1.531	-1.1487	.17310	.16910	-.15330	.08580	590.10000	.13049	.03861	.13459	-.05842
1.000	-.156	-.2665	.1667	.16540	-.26910	.07490	590.10000	.12753	.03867	.12783	-.03107
1.000	1.377	-.0178	.16315	.16350	-.01395	.06350	590.10000	.12454	.03896	.12417	-.10928
1.000	3.411	.7240	.16150	.15930	.08250	.04850	590.10000	.12033	.03857	.12499	.44222
1.000	5.494	.1637	.16265	.15320	.17920	.03260	590.10000	.11466	.03834	.13149	.96496
1.000	7.552	.2550	.16470	.14950	.27760	.01820	590.10000	.11074	.03876	.14627	1.36366
1.000	9.614	.3379	.25430	.14500	.36730	.00200	590.10000	.10504	.03936	.16491	1.65401
1.000	12.710	.4540	.24690	.13870	.45750	-.00500	590.10000	.09963	.04207	.20581	1.87593
1.000	15.820	.5927	.31375	.13500	.55310	-.01760	590.10000	.09476	.04314	.26219	1.95195
1.000	18.930	.7093	.37440	.12400	.79240	-.07480	590.10000	.07844	.04556	.33126	1.85475
1.000	22.050	.8200	.45950	.11500	.93260	-.02760	590.10000	.07025	.04775	.41522	1.76461
1.000	25.170	.9250	.55830	.11100	1.07500	-.03100	590.10000	.06215	.04935	.51345	1.65027
1.000	29.070	1.0210	.68850	.10290	1.22700	-.01660	590.10000	.05379	.05201	.64318	1.48266
GRADIENT	.04429	-.00187	-.00234	-.02745	-.00748	-.00000	.00000	-.00203	-.00001	-.00196	.26336

RUN NO. 43/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-1.537	-.12320	.15680	.15940	-.12940	.05330	563.10000	.12615	.02725	.12957	-.79864
2.002	.215	-.07620	.15100	.15070	-.07680	.04620	563.10000	.12287	.02783	.12316	-.50491
2.002	3.27	-.01920	.14760	.14800	-.01580	.03920	563.10000	.12004	.02796	.11964	-.13524
2.002	3.391	.05770	.14800	.14430	-.06630	.02870	563.10000	.11606	.02824	.11978	.36960
2.002	5.451	.13180	.15360	.14040	.14500	.01900	563.10000	.11157	.02883	.12492	.83801
2.002	7.497	.20600	.16470	.13640	.22590	.01100	563.10000	.10678	.02952	.13533	1.25124
2.002	9.563	.27840	.16020	.13150	.30440	.00510	563.10000	.10190	.02965	.15105	1.54416
2.002	12.650	.36960	.21390	.12340	.42690	.00030	563.10000	.09324	.03016	.18446	1.82106
2.002	15.740	.49960	.26500	.11760	.55220	-.00380	563.10000	.08548	.03212	.23207	1.85968
2.002	18.840	.60730	.32520	.11170	.67980	-.00880	563.10000	.07825	.03345	.29359	1.86726
2.002	21.940	.71000	.39910	.10470	.80820	-.01380	563.10000	.07008	.03462	.36690	1.78542
2.002	25.040	.81140	.48670	.09760	.94120	-.02040	563.10000	.06141	.03616	.45000	1.66690
2.002	28.910	.92200	.60710	.08960	1.10100	-.02830	563.10000	.05027	.03533	.57626	1.51914
GRADIENT	.03711	-.00172	-.00183	-.03970	-.00495	-.00000	.00000	-.00202	-.00018	-.00190	.24193

AKC 97-747 Q453B B C M F W V MOM. RM/L

(REKDER) (04 APR 74)

REFERENCE DATA

BREP = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREP = 16.2440 IN. YMRP = .0000 IN.
 GREP = 26.1904 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

RUN NO. 46/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

BETA = .000 ELEVOM = -50.000
 ALLROM = 20.000 BDPLAP = -11.700
 SPOBRK = 35.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -40.000

PARAMETRIC DATA

MACH	ALPHA	CL	CD	CA	CM	CLMFW	Q	CAF	CAB	CFD	L/D
1.000	-1.503	-1.0340	.20030	.19320	-.19060	.11210	587.40000	.15672	.03648	.16180	-.96541
1.000	-.217	-1.3300	.19220	.19170	-.13370	.10030	587.40000	.13327	.03843	.13378	-.69102
1.000	1.337	-.06020	.18660	.18790	-.05590	.08710	587.40000	.14930	.03860	.14796	-.32300
1.000	3.401	.03490	.18410	.18170	.04580	.06990	587.40000	.14260	.03910	.14506	.18979
1.000	5.473	.13080	.18500	.17320	.14790	.09220	587.40000	.13457	.03863	.14806	.70078
1.000	7.543	.22650	.19670	.16520	.25030	.03540	587.40000	.12694	.03826	.15870	1.15166
1.000	9.605	.31370	.21370	.15840	.34500	.02160	587.40000	.11860	.03980	.17450	1.46780
1.000	12.720	.44250	.25370	.15000	.48750	.00660	587.40000	.10827	.04173	.21293	1.74449
1.000	15.820	.57100	.30740	.14010	.63320	-.00510	587.40000	.09826	.04184	.26716	1.85750
1.000	18.930	.68930	.37860	.13450	.77490	-.01280	587.40000	.08943	.04507	.33398	1.82074
1.000	22.040	.79820	.46120	.12790	.91290	-.01520	587.40000	.08138	.04652	.41600	1.73598
1.000	25.160	.90320	.55930	.12180	1.05500	-.01680	587.40000	.07350	.04850	.51520	1.61500
1.000	29.080	1.00200	.68950	.11370	1.21100	-.00570	587.40000	.06380	.05190	.64434	1.45297
GRADIENT	.04656	-.00321	-.00273	.04983	-.00858	.00000		-.00267	.00013	-.00334	.23553

RUN NO. 45/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFW	Q	CAF	CAB	CFD	L/D
2.002	-1.537	-1.1520	.17620	.17190	-.19990	.06900	565.20000	.14410	.02780	.14839	-.88074
2.002	-.217	-1.0400	.16900	.16860	-.10460	.06110	565.20000	.14022	.02838	.14062	-.31317
2.002	1.329	-.04260	.16400	.16500	-.03900	.03210	565.20000	.13584	.02916	.13490	-.26059
2.002	3.378	.03370	.16180	.15950	.04310	.04090	565.20000	.13006	.02944	.13238	.62788
2.002	5.428	.10670	.16410	.15300	.12370	.03000	565.20000	.12332	.02958	.13447	.66257
2.002	7.484	.18440	.17160	.14610	.20320	.02090	565.20000	.11563	.03047	.14137	1.27483
2.002	9.549	.25690	.18610	.14090	.28420	.01600	565.20000	.11026	.03064	.15586	1.38042
2.002	12.640	.36900	.21790	.13160	.40780	.01010	565.20000	.10100	.03080	.18779	1.59423
2.002	15.740	.48170	.26640	.12570	.53590	.00590	565.20000	.09290	.03280	.23479	1.80847
2.002	18.840	.58860	.32720	.11960	.66270	.00080	565.20000	.08566	.03394	.29407	1.79884
2.002	21.930	.69370	.39950	.11150	.79270	-.00320	565.20000	.07683	.03467	.36732	1.72648
2.002	25.030	.79480	.48590	.10330	.92580	-.01150	565.20000	.06817	.03573	.45347	1.63612
2.002	28.900	.90720	.60740	.09330	1.08000	-.01470	565.20000	.05651	.03679	.57328	1.43371
GRADIENT	.03837	-.00285	-.00240	.04122	-.00370	.00000		-.00284	.00034	-.00319	.22196

ARC 97-74 04338 B C W F W I V W O M . R M / L (I R E K 0 2 3) (0 4 A P R 7 4)

REFERENCE DATA
 SREF # 2.4210 50. FT. XMRP = 32.3010 IM.
 LREF # 14.2440 IM. YMRP = .0000 IM.
 BREF # 20.1004 IM. ZMRP = 11.2500 IM.
 SCALE # .0300 SCALE

PARAMETRIC DATA
 BETA = .000 ELEVOM = -20.000
 AILROM = .000 BDFLAP = -11.700
 SPDGRK = 55.000 PUGGER = .000
 ELEV-L = -40.000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CFD	L/D
1.000	-1.536	-2.2360	.24160	.23360	-1.30470	.17140	588.60000	.19194	.54166	.20004	-1.23438
1.000	-1.239	-2.2320	.23000	.22900	-1.29620	.15090	588.60000	.18734	.54166	.18932	-1.22288
1.000	1.315	-1.1650	.22110	.22470	-1.19340	.14510	588.60000	.18262	.54208	.17901	-1.22657
1.000	3.385	-1.06270	.21340	.21670	-1.05000	.12680	588.60000	.17412	.54258	.17286	-1.29389
1.000	5.457	.53670	.20850	.20410	-.05840	.10760	588.60000	.16118	.54292	.16582	-1.17615
1.000	7.521	.15010	.19230	.19230	.16270	.08660	588.60000	.14596	.54274	.16997	-.64230
1.000	9.589	.23900	.22260	.16090	.26690	.56840	588.60000	.13975	.54115	.18226	1.54379
1.000	12.690	.36550	.25450	.16790	.41250	.05220	588.60000	.12559	.54231	.21314	1.43679
1.000	15.810	.50220	.30000	.15470	.56370	.03820	588.60000	.11294	.54176	.26279	1.65742
1.000	18.920	.61760	.37000	.15050	.70440	.03440	588.60000	.10573	.54440	.32542	1.66506
1.000	22.040	.72880	.45000	.14390	.84450	.03260	588.60000	.09596	.54794	.40585	1.61805
1.000	25.160	.83170	.54010	.13530	.98240	.03270	588.60000	.08473	.55057	.49436	1.53577
1.000	28.000	.94120	.66770	.12665	1.14700	.03870	588.60000	.07310	.55350	.62086	1.40942
1.000	30.000	1.04780	.80561	-.00339	.95174	-.00000	.00000	-.00359	.55000	-.00000	-.00000

RUN NO. 47/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CFD	L/D
2.002	-1.524	-2.2360	.20650	.20050	-.22900	.10890	567.40000	.17221	.50209	.17824	-1.06284
2.002	-1.238	-1.17380	.19660	.19390	-1.17450	.10120	567.40000	.16689	.52951	.16761	-.88392
2.002	1.311	-1.1110	.18630	.18880	-1.0680	.08970	567.40000	.15863	.53917	.15614	-.99628
2.002	3.365	-.02860	.17900	.18030	-.01850	.07650	567.40000	.14979	.53051	.14840	-.15953
2.002	5.424	.05090	.17240	.17240	.06790	.06520	567.40000	.14130	.53110	.14704	.28595
2.002	7.473	.12610	.16190	.16330	.14860	.05540	567.40000	.13078	.53252	.14899	.69376
2.002	9.535	.20070	.19120	.15330	.22960	.04980	567.40000	.12320	.53210	.15953	1.04977
2.002	12.630	.31470	.21870	.14460	.35490	.04460	567.40000	.11229	.53231	.16717	1.43892
2.002	15.730	.42800	.26230	.13660	.48310	.04030	567.40000	.10288	.53372	.23000	1.83066
2.002	18.830	.53930	.31950	.12970	.60980	.03570	567.40000	.09488	.53482	.28662	1.67502
2.002	21.930	.64090	.38750	.12020	.73920	.03120	567.40000	.08439	.53581	.35435	1.63341
2.002	25.030	.74300	.46920	.11070	.87180	.02650	567.40000	.07436	.53634	.43623	1.58389
2.002	28.930	.85850	.58850	.10080	1.00400	.02370	567.40000	.06303	.53777	.53535	1.45512
2.002	30.999	.93899	.70062	-.00419	.94328	-.00671	.00000	-.00660	.50547	-.00000	-.18998

ARC 97-747 QAS38 B C M F W I V MOM. RN/L

(REK084) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 SB.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SBREF = 28.1504 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 56/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CFD	L/D
1.600	-1.534	-0.0170	-0.1440	-1.4220	-0.0850	0.2520	598.10000	1.0149	0.4071	0.10375	-0.56538
1.600	-1.207	-0.0220	-0.13960	-1.3960	-0.02370	0.1530	598.10000	0.9977	0.3983	0.09866	-0.18037
1.600	1.345	0.0450	0.13820	0.4870	0.0400	0.0400	598.10000	0.9761	0.3945	0.09872	0.28899
1.600	3.417	0.1360	0.14160	0.1320	0.14450	-0.01000	598.10000	0.9445	0.3875	0.10289	0.96276
1.600	5.471	0.2260	0.15110	0.1280	0.24000	-0.02400	598.10000	0.9057	0.3823	0.11304	1.49989
1.600	7.546	0.3180	0.16970	0.1260	0.33780	-0.03810	598.10000	0.8768	0.3872	0.13128	1.87599
1.600	8.575	0.35670	0.17960	0.1240	0.37950	-0.04070	598.10000	0.8495	0.3945	0.14059	1.98619
1.600	12.710	0.52270	0.23900	0.11810	0.56250	-0.05610	598.10000	0.7679	0.4131	0.19867	2.18748
1.600	15.820	0.64840	0.30110	0.11290	0.70390	-0.06710	598.10000	0.6988	0.4302	0.25967	2.15305
1.600	18.960	0.76710	0.37640	0.10680	0.84770	-0.07390	598.10000	0.6247	0.4433	0.33451	2.01750
1.600	22.080	0.87710	0.46420	0.10050	0.98720	-0.07370	598.10000	0.5563	0.4487	0.42264	1.88924
1.600	25.170	0.97880	0.56650	0.09630	1.12700	-0.07760	598.10000	0.4957	0.4723	0.52373	1.72829
1.600	28.580	1.07600	0.70350	0.09370	1.28300	-0.06590	598.10000	0.4093	0.5277	0.65335	1.52485
GRADIENT	0.4419	-0.00049	0.05160	0.04661	-0.00711	0.06000		-0.00143	-0.00037	-0.00011	31.065

RUN NO. 49/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CFD	L/D
2.002	-1.548	-0.07510	-0.13420	-1.3220	-0.57870	0.50490	570.60000	1.1266	0.2932	0.10477	-0.55929
2.002	-0.216	-0.02780	-0.13020	-1.3010	-0.02830	0.00070	570.60000	1.0072	0.2932	0.10088	-0.21358
2.002	1.325	0.02920	0.12870	0.12800	0.03220	-0.00780	570.60000	0.9860	0.2940	0.09932	0.22711
2.002	3.383	0.10360	0.12200	0.12370	0.11120	-0.01690	570.60000	0.9624	0.2946	0.10263	0.76451
2.002	5.438	0.17770	0.13950	0.12200	0.19010	-0.02550	570.60000	0.9253	0.2947	0.11013	1.27402
2.002	7.488	0.24980	0.15320	0.11930	0.26770	-0.03220	570.60000	0.8899	0.3031	0.12312	1.63134
2.002	9.531	0.32300	0.17190	0.11590	0.34700	-0.03610	570.60000	0.8511	0.3079	0.14151	1.87910
2.002	12.640	0.43210	0.20930	0.10960	0.46740	-0.04010	570.60000	0.7843	0.3117	0.17880	2.05521
2.002	14.700	0.50610	0.24230	0.10590	0.55100	-0.04310	570.60000	0.7423	0.3167	0.21162	2.08909
2.002	15.740	0.54200	0.26080	0.10400	0.59240	-0.04390	570.60000	0.7164	0.3236	0.22965	2.07811
2.002	18.840	0.64920	0.32550	0.09850	0.71960	-0.04750	570.60000	0.6652	0.3238	0.29476	1.93533
2.002	21.940	0.73260	0.40340	0.09300	0.84880	-0.05190	570.60000	0.6120	0.3280	0.37298	1.86556
2.002	25.040	0.83170	0.49350	0.08840	0.98130	-0.05650	570.60000	0.5597	0.3343	0.46424	1.71903
2.002	28.910	0.96210	0.62250	0.07980	1.14300	-0.05840	570.60000	0.4469	0.3511	0.59169	1.54555
GRADIENT	0.3632	-0.00039	0.00131	0.03859	-0.00442	0.06000		-0.00131	-0.00000	-0.00010	0.73499



ARC 97-747 04338 B C M F W1 V NOM. RM/L

(REK025) (04 APR 74)

REFERENCE DATA

BREF = 2.4219 90.FT. YMRP = 32.3010 IM.
 LBEP = 14.2460 IM. YMRP = .0000 IM.
 SBEP = 28.1004 IM. ZMRP = 11.2300 IM.
 SCALE = .0300 SCALE

ALPHA = .000 ELEVOM = .000
 AIRLUM = .000 BDFLAP = -11.700
 SPDRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 55/ 0 RM/L = 2.75 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLM ² Q	Q	CAF	CAB	COF	L/D
1.000	-3.182	-.02030	.14120	.14120	-.02070	.01060	598.40000	.09879	.04291	.09829	-1.1660
1.000	-3.101	-.02350	.14130	.14120	-.02340	.01320	598.40000	.09542	.04170	.09942	-1.6572
1.000	-1.034	-.02250	.14060	.14050	-.02350	.01490	598.40000	.10005	.04045	.10005	-.18149
1.000	-.012	-.02190	.13990	.13980	-.02240	.01440	598.40000	.09983	.03997	.09983	-.16023
1.000	1.016	-.02170	.14040	.14050	-.02230	.01490	598.40000	.09995	.04035	.09995	-.15895
1.000	3.085	-.02120	.14150	.14140	-.02180	.01460	598.40000	.10029	.04111	.10029	-.15417
1.000	5.149	-.01760	.14150	.14140	-.01840	.01390	598.40000	.09958	.04182	.09958	-.13015
1.000	5.985	-.01650	.14130	.14130	-.01710	.01360	598.40000	.09896	.04234	.09896	-.12102
GRADIENT	.05042	.05002	.05002	.05002	.05002	.05002	.05000	.05012	-.05010	.05012	.05077

RUN NO. 50/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLM ² Q	Q	CAF	CAB	COF	L/D
2.002	-5.540	-.02410	.13130	.13130	-.02440	-.00570	576.90000	.09990	.03140	.09990	-1.8660
2.002	-3.482	-.02470	.13210	.13200	-.02510	-.00300	576.90000	.10141	.03059	.10141	-.19515
2.002	-1.417	-.02610	.13150	.13140	-.02660	-.00100	576.90000	.10170	.02970	.10170	-.20244
2.002	-.376	-.02670	.13030	.13020	-.02710	-.00050	576.90000	.10086	.02934	.10086	-.20814
2.002	.647	-.02580	.13020	.13010	-.02630	-.00030	576.90000	.10083	.02927	.10083	-.20215
2.002	2.708	-.02230	.13030	.13020	-.02280	-.00100	576.90000	.09955	.03065	.09955	-.17512
2.002	4.774	-.01940	.12940	.12930	-.02000	-.00350	576.90000	.09792	.03138	.09792	-.15468
2.002	5.815	-.01910	.12880	.12880	-.01970	-.00340	576.90000	.09719	.03161	.09719	-.15295
GRADIENT	.00074	-.00031	-.00072	-.00072	-.00072	-.00007	.00000	-.00044	.00014	-.00044	.00032

PARAMETRIC DATA

ARC 97-747 04338 B C M F W1 V MON. RM/L

(REK088) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98-FT. XMRP = 32.3010 IM.
 LEEP = 14.2440 IM. YMRP = .0000 IM.
 BREF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AIRLOM = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 94/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFLW	Q	CAF	CAB	COF	L/D
1.000	-5.041	.48970	.20300	.12480	.45870	-.05060	596.60000	.08130	.04290	.15972	2.12989
1.000	-3.001	.42270	.20590	.12340	.45150	-.04690	596.60000	.08131	.04209	.15848	2.11683
1.000	-9.988	.42200	.19950	.12260	.45060	-.04740	596.60000	.08251	.04009	.15951	2.12312
1.000	.036	.42400	.19970	.12210	.45250	-.04770	596.60000	.08212	.03998	.15945	2.13470
1.000	1.041	.42270	.19930	.12190	.45120	-.04670	596.60000	.08199	.03991	.15910	2.13257
1.000	3.078	.42610	.20140	.12340	.45490	-.04740	596.60000	.08247	.04093	.16021	2.12730
1.000	5.107	.42910	.20250	.12450	.45800	-.04730	596.60000	.08224	.04176	.16052	2.13001
1.000	7.141	.42900	.20580	.12240	.45760	-.04650	596.60000	.08110	.04130	.15933	2.14693
1.000	7.545	.43060	.20030	.12150	.45910	-.04590	596.60000	.08041	.04103	.15891	2.16188
	GRADIENT	.00054	.00053	-.00003	.00093	-.00054	-.00000	.00015	-.00018	.00024	.00223

RUN NO. 51/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFLW	Q	CAF	CAB	COF	L/D
2.002	-5.433	.34610	.17990	.11630	.37420	-.03680	580.70000	.08421	.03209	.14791	1.94037
2.002	-3.382	.34470	.17970	.11670	.37090	-.03720	580.70000	.08498	.03172	.14608	1.92343
2.002	-1.360	.34160	.17800	.11560	.36750	-.03680	580.70000	.08476	.03084	.14729	1.92415
2.002	-.348	.34300	.17800	.11330	.36890	-.03720	580.70000	.08449	.03081	.14727	1.93277
2.002	.677	.34190	.17770	.11920	.36770	-.03690	580.70000	.08435	.03085	.14691	1.92955
2.002	2.702	.34230	.17710	.11450	.36800	-.03670	580.70000	.08364	.03086	.14528	1.93887
2.002	4.750	.34510	.17750	.11450	.37080	-.03680	580.70000	.08317	.03263	.14501	1.94911
2.002	6.766	.34720	.17730	.11400	.37290	-.03640	580.70000	.07996	.03404	.14350	1.96269
2.002	8.803	.35070	.17700	.11310	.37620	-.04190	580.70000	.07601	.03509	.14216	1.98545
	GRADIENT	.00007	-.00026	-.00027	.00003	.00003	.00000	-.00037	.00010	-.00034	.00329

ARC 97-747 04338 B C H F W1 V MON, RM/L

(REK027) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. IN = 32.5010 IN.
 LREF = 14.2440 IN. YN1 = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 25.000 RUDGER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 53/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CDF	L/D
1.000	-5.047	.82630	.41680	.10120	.91990	-.07320	598.70000	.05742	.04378	.36859	2.02331
1.000	-5.050	.82295	.41790	.10350	.91710	-.07400	598.70000	.05836	.04514	.36850	2.01106
1.000	-5.056	.82400	.41920	.10410	.91850	-.07500	598.70000	.05893	.04517	.36952	2.00866
1.000	-5.064	.82310	.41810	.10330	.91740	-.07410	598.70000	.05839	.04491	.36864	2.01233
1.000	-5.091	.82290	.41790	.10320	.91720	-.07430	598.70000	.05854	.04466	.36871	2.01275
1.000	-5.137	.82500	.41970	.10370	.92070	-.07500	598.70000	.05855	.04515	.36991	2.01217
1.000	-5.180	.82460	.41750	.10210	.91860	-.07190	598.70000	.05789	.04421	.36858	2.01960
1.000	-5.231	.82470	.41410	.09880	.91760	-.07020	598.70000	.05380	.04291	.36635	2.03716
1.000	-5.279	.82240	.41070	.09640	.91420	-.07010	598.70000	.05453	.04187	.36391	2.04694
	GRADIENT	.00040	.00021	-.00001	.00046	.00005	-.00000	.00001	-.00002	.00017	.00036

RUN NO. 52/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFD	θ	CAF	CAB	CDF	L/D
2.002	-3.412	.70360	.36120	.09330	.78340	-.05190	579.90000	.06097	.03233	.32191	1.96061
2.002	-3.362	.70070	.36120	.09460	.78260	-.05030	579.90000	.06238	.03222	.32628	1.97175
2.002	-1.319	.69080	.36120	.09480	.78180	-.04960	579.90000	.06180	.03297	.32549	1.96393
2.002	-2.294	.70000	.36080	.09420	.78180	-.04930	579.90000	.06160	.03260	.32527	1.97382
2.002	-2.716	.70040	.36110	.09430	.78240	-.04960	579.90000	.06128	.03302	.32519	1.97345
2.002	-2.770	.70100	.36080	.09380	.78280	-.05040	579.90000	.06040	.03340	.32449	1.97684
2.002	-4.001	.70360	.36010	.09210	.78320	-.05290	579.90000	.05832	.03376	.32335	1.98915
2.002	-6.044	.70610	.36050	.09140	.78740	-.05500	579.90000	.05677	.03463	.32266	1.99511
2.002	-8.922	.70540	.35930	.09070	.78640	-.05500	579.90000	.05640	.03450	.32197	1.99877
	GRADIENT	.00038	-.00012	-.00029	.00032	-.00031	.00000	-.00047	-.00016	-.00034	.00205

ARC 97-747 QAS38 B C M F R V MOM. RM/L

(REK028) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 30.FT. YMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 SREF = 20.1094 IM. ZMRP = 11.2300 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 58/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
1.000	-1.493	-0.0980	-0.1500	-0.0900	-0.0240	593.40000	.11786	.03924	.11937	.11937	-1.54086
1.000	-1.101	-0.02670	-0.15460	-0.02710	.03160	593.40000	.11541	.03919	.11549	.11549	-1.17203
1.000	1.350	-0.4160	-0.15240	.04320	.01990	593.40000	.11312	.03828	.11416	.11416	.87291
1.000	3.400	-1.1550	-0.15330	.14720	.00450	593.40000	.10694	.03826	.11700	.11700	.84643
1.000	5.490	-2.2650	-0.16330	.14290	-.01120	593.40000	.10440	.03850	.12701	.12701	1.37012
1.000	7.562	-3.1760	-0.16330	.13990	.03900	593.40000	.10540	.03950	.14414	.14414	1.73295
1.000	9.633	-4.0210	-0.20630	.13650	-.03560	593.40000	.09624	.04028	.16669	.16669	1.93870
1.000	12.710	-5.2440	-0.25270	.13110	-.04800	593.40000	.08940	.04170	.21200	.21200	2.03557
1.000	15.830	-6.5030	-0.31540	.12570	-.06200	593.40000	.08190	.04360	.27316	.27316	2.06231
1.000	18.940	-7.6850	-0.39120	.12030	-.07680	593.40000	.07429	.04601	.34772	.34772	1.96670
1.000	22.060	-8.6910	-0.48030	.11460	-.09350	593.40000	.06708	.04872	.43628	.43628	1.82236
1.000	25.190	-9.2860	-0.58390	.10810	-.11280	593.40000	.05995	.05215	.53961	.53961	1.68312
1.000	28.320	-1.0760	-0.71750	.10400	-.12890	593.40000	.05158	.05242	.67133	.67133	1.52774
GRADIENT	.04436	-.00067	-.00193	-.04733	-.00773	.00000	-.00169	-.00023	-.00044	-.00044	-.00059

RUN NO. 57/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	CDF	L/D
2.002	-1.501	-0.07900	-0.14770	-0.08290	.02040	565.30000	.11745	.02815	.11938	.11938	-1.33316
2.002	-1.197	-.03110	-0.14350	-.03160	.01430	565.30000	.11504	.02836	.11515	.11515	-.21675
2.002	1.302	-0.2370	-0.14330	.02890	.00690	565.30000	.11290	.02840	.11293	.11293	.18182
2.002	3.391	-0.6060	-0.14390	.10900	-.00310	565.30000	.10919	.02851	.11545	.11545	.69951
2.002	5.457	-1.1510	-0.15120	.10870	-.01330	565.30000	.10320	.02870	.12267	.12267	1.15765
2.002	7.492	-2.4690	-0.16360	.10500	-.02110	565.30000	.10134	.02868	.13517	.13517	1.50916
2.002	9.536	-3.1670	-0.18120	.10410	-.02670	565.30000	.09722	.02858	.15292	.15292	1.79873
2.002	12.630	-4.3170	-0.21810	.10300	-.03200	565.30000	.08992	.02838	.19542	.19542	1.97682
2.002	15.730	-5.4050	-0.26500	.10190	-.03760	565.30000	.08294	.02836	.24076	.24076	1.93765
2.002	18.840	-6.4970	-0.33700	.10020	-.04400	565.30000	.07724	.02836	.30681	.30681	1.92749
2.002	22.000	-7.5550	-0.41900	.09870	-.05090	565.30000	.07200	.02836	.38983	.38983	1.81165
2.002	25.010	-8.5500	-0.50640	.09720	-.05910	565.30000	.06781	.02836	.47410	.47410	1.58816
2.002	28.920	-9.6030	-0.61290	.09560	-.06840	565.30000	.05592	.02836	.57263	.57263	1.37036
GRADIENT	.03678	-.00073	-.00162	-.03929	-.00491	-.00000	-.00169	.00007	-.00037	-.00037	-.00054



ARC 97-747 04338 B C M F W1 V MOM. RN/L

(REK029) (04 APR 74)

REFERENCE DATA

IREF Z = 2.4210 30. FT YMRP = 32.3010 IN.
 LREF Z = 14.2440 IN. YMRP = .0000 IN.
 BREF Z = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLROM = .000 BOFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -19.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 62/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
1.000	-5.154	-.03090	.15650	.15640	-.03140	.03370	596.60000	.11382	.04258	.11382	-.29077
1.000	-3.190	-.03190	.15660	.15670	-.03230	.03670	596.60000	.11547	.04123	.11547	-.20613
1.000	-1.045	-.03300	.15630	.15620	-.03350	.03820	596.60000	.11643	.03977	.11643	-.21447
1.000	-.028	-.03270	.15620	.15610	-.03320	.03850	596.60000	.11666	.03944	.11666	-.21868
1.000	1.010	-.03170	.15700	.15680	-.03220	.03890	596.60000	.11704	.03976	.11704	-.20336
1.000	3.070	-.03300	.15880	.15870	-.03360	.03980	596.60000	.11754	.04116	.11754	-.21172
1.000	5.143	-.03030	.15920	.15900	-.03090	.03940	596.60000	.11650	.04250	.11650	-.19434
1.000	6.173	-.02990	.15910	.15900	-.03080	.03870	596.60000	.11593	.04307	.11593	-.19182
	GRADIENT	-.00010	.00033	.00032	-.00013	.00049	-.00000	.00033	-.00004	.00033	-.00037

RUN NO. 59/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	COF	L/D
2.002	-5.343	-.03380	.14350	.14340	-.03430	.01300	572.20000	.11221	.03119	.11221	-.23919
2.002	-3.490	-.03610	.14490	.14480	-.03630	.01720	572.20000	.11432	.03048	.11432	-.25207
2.002	-1.401	-.03640	.14430	.14470	-.03660	.01970	572.20000	.11530	.02940	.11530	-.25432
2.002	-.389	-.03530	.14440	.14430	-.03570	.01960	572.20000	.11479	.02951	.11479	-.24740
2.002	.624	-.03590	.14450	.14430	-.03640	.02000	572.20000	.11485	.02945	.11485	-.25225
2.002	2.707	-.03330	.14490	.14470	-.03380	.02030	572.20000	.11405	.03065	.11405	-.23359
2.002	4.770	-.02980	.14450	.14440	-.03030	.01900	572.20000	.11288	.03152	.11288	-.20983
2.002	5.786	-.02900	.14400	.14390	-.02960	.01750	572.20000	.11205	.03185	.11205	-.20970
	GRADIENT	.00077	-.00003	-.00003	.00075	.00019	.00000	-.00021	.00017	-.00021	-.00314

ASC 97-747 OA338 B C H F W1 V NOM. RN/L

(REK330) (C4 APR 74)

REFERENCE DATA

MACH = 2.4210 80.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

RUN NO. 63 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	COF	L/D
1.600	-5.047	.41810	.21380	.13680	.44920	-.03130	596.30000	.59401	-.04279	.17059	1.96790
1.600	-3.908	.41980	.21290	.13720	.44190	-.02760	596.30000	.59497	-.04223	.17026	1.94175
1.600	-.998	.41970	.21200	.13640	.44170	-.02760	596.30000	.59634	.04006	.17158	1.94905
1.600	.020	.41120	.21170	.13600	.44210	-.02770	596.30000	.59639	.03961	.17169	1.95425
1.600	1.034	.41180	.21250	.13670	.44270	-.02700	596.30000	.59661	.04009	.17202	1.94913
1.600	3.070	.40910	.21420	.13680	.44040	-.02560	596.30000	.59771	.04109	.17270	1.92154
1.600	5.109	.41630	.21620	.13950	.44790	-.02590	596.30000	.59809	.04141	.17437	1.93752
1.600	7.145	.41670	.21460	.13800	.44890	-.02590	596.30000	.59872	.04128	.17505	1.95243
1.600	9.185	.41730	.21340	.13680	.44930	-.02550	596.30000	.59436	.04244	.17078	1.96518
	GRADIENT	-.00020	.00022	.00025	-.00017	.00033	.00000	.00042	-.00017	.00038	-.00050

RUN NO. 60/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFO	Q	CAF	CAB	COF	L/D
2.002	-5.435	.33850	.18820	.12650	.36420	-.02230	571.70000	.59446	.03204	.15627	1.79267
2.002	-3.374	.33270	.18880	.12780	.36060	-.02040	571.70000	.59694	.03176	.15720	1.76643
2.002	-1.355	.33010	.18780	.12720	.35780	-.01940	571.70000	.59644	.03076	.15710	1.76242
2.002	-.349	.33150	.18740	.12660	.35910	-.01930	571.70000	.59633	.03027	.15722	1.77327
2.002	.667	.32950	.18650	.12600	.35700	-.01850	571.70000	.59616	.02984	.15669	1.77182
2.002	2.698	.33030	.18750	.12690	.35890	-.01760	571.70000	.59585	.03105	.15656	1.76621
2.002	4.731	.33280	.18790	.12690	.36050	-.01700	571.70000	.59433	.03257	.15550	1.77525
2.002	6.781	.33270	.18770	.12670	.36040	-.01810	571.70000	.59355	.03361	.15422	1.77694
2.002	8.779	.33370	.18800	.12620	.36330	-.02050	571.70000	.59159	.03461	.15363	1.79971
	GRADIENT	.00001	-.00010	-.00009	-.00001	.00043	.00000	-.00020	.00011	-.00020	.00094

ARC 97-747 0453B B C H F W I V MON. RM/L

(REK032) (04 APP 74)

REFERENCE DATA

SREF = 2.4210 36.FT. YMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 RDELAP = -11.700
 SPDRFR = 59.000 RUCDER = -251.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 66/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFM0	Q	CAF	CAB	CAF	CDF	L/D
1.600	-5.042	.80620	.42740	.11730	.90670	-.04970	587.10000	.07353	.04397	.07353	.07353	7.71660
1.600	-5.002	.80290	.42660	.12060	.90220	-.04850	587.10000	.07657	.04403	.07657	.07657	7.48093
1.600	-9.952	.80360	.43130	.12260	.90390	-.04750	587.10000	.07767	.04493	.07767	.07767	7.37276
1.600	.062	.80400	.43170	.12270	.90430	-.04770	587.10000	.07739	.04531	.07739	.07739	7.37051
1.600	1.085	.80490	.43200	.12260	.90520	-.04710	587.10000	.07738	.04522	.07738	.07738	7.38336
1.600	3.122	.80745	.43170	.12150	.90750	-.04740	587.10000	.07638	.04492	.07638	.07638	7.48143
1.600	5.175	.80690	.42890	.11820	.90790	-.04760	587.10000	.07592	.04428	.07592	.07592	7.60105
1.600	7.217	.81200	.42330	.11180	.90900	-.04990	587.10000	.06962	.04218	.06962	.06962	8.13039
1.600	9.270	.81090	.41790	.10720	.90590	-.05260	587.10000	.06159	.04161	.06159	.06159	8.45056
	GRADIENT	.00072	.00049	.00010	.00084	.00018	-.00000	-.00004	.00014	-.00004	-.00014	.00001

RUN NO. 65/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFM0	Q	CAF	CAB	CAF	CDF	L/D
2.002	-5.553	-.03490	.14830	.14820	-.03540	.01840	565.50000	.11689	.03131	.11689	.11689	-2.07887
2.002	-3.488	-.03720	.15030	.15020	-.03760	.02470	565.50000	.11997	.03023	.11997	.11997	-2.25033
2.002	-1.421	-.03860	.15080	.15070	-.03910	.02730	565.50000	.12136	.02934	.12136	.12136	-2.25946
2.002	-.385	-.03830	.15040	.15030	-.03880	.02850	565.50000	.12098	.02932	.12098	.12098	-2.23811
2.002	.644	-.03770	.15070	.15060	-.03820	.02940	565.50000	.12112	.02948	.12112	.12112	-2.25365
2.002	2.704	-.03580	.15120	.15110	-.03630	.02940	565.50000	.12078	.03102	.12078	.12078	-2.24924
2.002	4.770	-.03390	.15280	.15060	-.03450	.02820	565.50000	.11879	.03181	.11879	.11879	-2.22508
2.002	5.797	-.03290	.15050	.15040	-.03350	.02730	565.50000	.11822	.02278	.11822	.11822	-2.22269
	GRADIENT	.00048	.00007	.00006	.00046	.00041	-.00000	-.00019	.00023	-.00019	-.00019	.00016



ARC 97-747 0A53B B C M F W I V NOM. RM/L

(REK033) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 98.F YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BR27 = 28.1000 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILPOM = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 69/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	CLMFW	CAF	CAB	CAF	CDF	L/D
1.600	-5.051	.41239	.21760	.14150	.44420	-.02390	589.80000	.09946	.04204	.17598	.17598	1.99720
1.600	-3.917	.40420	.21580	.14210	.43690	-.02000	589.80000	.10042	.04169	.17460	.17460	1.87654
1.600	-.204	.40590	.21650	.14160	.43780	-.02020	589.80000	.10204	.03956	.17651	.17651	1.86684
1.600	.021	.40510	.21660	.14190	.43690	-.01960	589.80000	.10270	.03920	.17750	.17750	1.86127
1.600	1.033	.40200	.21830	.14340	.43910	-.01930	589.80000	.10285	.04055	.17754	.17754	1.87395
1.600	3.064	.40710	.22020	.14500	.43950	-.01750	589.80000	.10370	.04130	.17844	.17844	1.86541
1.600	5.095	.41440	.22220	.14580	.44700	-.01720	589.80000	.10378	.04202	.17983	.17983	1.87559
1.600	7.135	.41960	.22380	.14420	.44800	-.01510	589.80000	.10260	.04160	.17883	.17883	1.89330
1.600	9.166	.41840	.21960	.14250	.45080	-.01450	589.80000	.10078	.04172	.17748	.17748	1.91666
	GRADIENT	.00048	.00060	.00052	.00098	.00041	-.10000	.00053	-.00001	.00062	.00062	-.00004

RUN NO. 66/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	CLMFW	CAF	CAB	CAF	CDF	L/D
2.002	-5.430	.33100	.19220	.13130	.35950	-.01620	569.80000	.09985	.03145	.15076	.15076	1.72761
2.002	-3.590	.32690	.19200	.13190	.35550	-.01350	569.80000	.10113	.03077	.15132	.15132	1.70745
2.002	-1.359	.32440	.19100	.13130	.35280	-.01230	569.80000	.10124	.03006	.15097	.15097	1.70354
2.002	-.347	.32420	.19040	.13080	.35250	-.01170	569.80000	.10115	.02961	.15087	.15087	1.70732
2.002	.668	.32330	.19050	.13070	.35260	-.01090	569.80000	.10113	.02957	.15100	.15100	1.71228
2.002	2.699	.32360	.19200	.13240	.35220	-.00880	569.80000	.10141	.03099	.15103	.15103	1.69075
2.002	4.724	.32820	.19370	.13320	.35700	-.00700	569.80000	.10083	.03277	.15099	.15099	1.69935
2.002	6.754	.33250	.19460	.13350	.36140	-.00760	569.80000	.09971	.03379	.15096	.15096	1.71307
2.002	8.785	.33420	.19480	.13340	.36310	-.00930	569.80000	.09859	.03441	.15053	.15053	1.72004
	GRADIENT	.00012	.00024	.00021	.00015	.00082	.00000	-.00005	.00026	-.00002	-.00002	-.00149

ARC 97-747 04538 B C M F W I V MOM, RM/L (REK034) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 ALLROM = .000 BDFLAP = -11.700
 SPBRK = 55.000 RUCCER = -23.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 70/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLM-WD	q	CAF	CAB	COF	L/D
1.600	-5.177	-.03200	.15950	.15940	-.03240	.03820	590.10000	.11791	.04149	.05972	-.61255
1.600	-3.110	-.03590	.16160	.16150	-.03630	.04370	590.10000	.12177	.03973	.10201	-.64119
1.600	-1.954	-.03710	.16250	.16240	-.03750	.04640	590.10000	.12272	.03968	.15249	-.64947
1.600	-.023	-.03640	.16210	.16200	-.03690	.04660	590.10000	.12274	.03926	.10271	-.64524
1.600	1.059	-.03620	.16310	.16300	-.03670	.04710	590.10000	.12293	.04007	.15296	-.64171
1.600	3.072	-.03200	.16520	.16510	-.03250	.04760	590.10000	.12356	.04154	.10500	-.60410
1.600	5.139	-.03100	.16550	.16540	-.03160	.04760	590.10000	.12279	.04261	.10457	-.59650
1.600	6.165	-.02990	.16490	.16480	-.03050	.04730	590.10000	.12176	.04304	.10398	-.58870
GRADIENT	.00061	.00055	.00055	.00055	.00059	.00060	-.00055	.00027	.00028	.00046	-.00378

RUN NO. 67/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLM-WD	q	CAF	CAB	COF	L/D
2.002	-5.415	-.69070	.37260	.10870	.77730	-.03300	569.10000	.07625	.03245	.33751	1.86384
2.002	-3.371	.68500	.37260	.11170	.77230	-.02850	569.10000	.07902	.03268	.33640	1.86267
2.002	-1.328	.68400	.37340	.11170	.77130	-.02720	569.10000	.07932	.03238	.33834	1.86185
2.002	-.310	.68340	.37250	.11100	.77040	-.02750	569.10000	.07840	.03260	.33716	1.86559
2.002	.715	.68430	.37190	.11000	.77100	-.02770	569.10000	.07741	.03259	.33644	1.87159
2.002	2.756	.68780	.37070	.10760	.77380	-.02990	569.10000	.07435	.03325	.33452	1.86735
2.002	4.797	.69150	.36870	.10440	.77670	-.03370	569.10000	.07132	.03326	.33267	1.90832
2.002	6.839	.69640	.36730	.10140	.78080	-.03980	569.10000	.06656	.03444	.32997	1.92924
2.002	8.886	.69210	.36430	.10010	.77570	-.03870	569.10000	.06615	.03395	.32747	1.93307
GRADIENT	.00087	-.00062	.00059	-.00094	.00059	-.00067	.00000	-.00102	.00008	-.00075	-.00587

APC 97-747 Q4538 B C M F W I V NOM. RM/L

(REK033) (04 APR 74)

REFERENCE DATA

BREF # 2.4810 SQ.F XMRP = 32.3010 IN.
 LREF # 14.2445 IN. YMRP = 1.0000 IN.
 SREF # 20.1004 IN. ZMRP = 11.2550 IN.
 SCALE # .2500 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON # .000
 AIRLON = .000 BCFLAP = -11.700
 SPDRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

SUN MO. 767 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 3.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-5.171	-.02680	.14180	.14180	-.02110	.01260	589.70000	.09938	.04222	.05958	-1.14885
1.001	-3.107	-.02475	.14220	.14210	-.02510	.01580	599.70000	.10121	.04789	.10121	-1.17664
1.001	-1.049	-.02375	.14300	.14300	-.02610	.01800	599.70000	.10219	.05371	.10219	-1.19393
1.001	1.013	-.02325	.14220	.14210	-.02570	.01930	599.70000	.10232	.05378	.10232	-1.18086
1.001	3.093	-.02300	.14140	.14330	-.02560	.01910	599.70000	.10295	.04435	.10295	-1.17865
1.001	5.139	-.02255	.14510	.14540	-.02350	.01960	599.70000	.10352	.04158	.10352	-1.16152
1.001	6.165	-.01790	.14590	.14590	-.02110	.01940	599.70000	.10382	.04299	.10382	-1.14432
GRADIENT	.00028	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

SUN MO. 717 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 3.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-5.543	-.02570	.13290	.13280	-.02620	-.00550	566.90000	.10114	.03166	.10114	-1.19729
2.002	-3.477	-.02635	.13270	.13260	-.02670	-.00170	566.90000	.10185	.03975	.10185	-1.20136
2.002	-1.413	-.02790	.13200	.13190	-.02830	.00170	566.90000	.10233	.02957	.10233	-1.21456
2.002	-.381	-.02895	.13160	.13150	-.02840	.00190	566.90000	.10214	.02936	.10214	-1.20076
2.002	.654	-.02590	.13180	.13170	-.02640	.00290	566.90000	.10173	.02997	.10173	-1.20046
2.002	2.709	-.02500	.13200	.13190	-.02550	.00300	566.90000	.10390	.03100	.10390	-1.19333
2.002	4.774	-.02070	.13170	.13160	-.02130	.00160	566.90000	.09959	.03201	.09959	-1.16185
2.002	5.799	-.01890	.13150	.13140	-.01950	-.00010	566.90000	.09912	.03228	.09912	-1.14840
GRADIENT	.00068	-.00000	-.00000	-.00000	.00000	.00037	.00000	-.00000	.00000	-.00000	.00000

ARC 97-747 04338 B C M F W V MOM. RM/L

(REK038) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFC = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .2500 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILFOM = .500 BOFLAP = -11.700
 SPDBFK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 75/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-5.250	.48770	.20210	.12370	.45860	-.04090	590.30000	.08219	.04151	.16023	2.12911
1.001	-3.318	.42185	.20160	.12420	.45070	-.04920	590.30000	.08297	.04123	.15997	2.10516
1.001	-1.992	.42150	.20100	.12370	.45030	-.04470	590.30000	.08426	.03944	.16117	2.10974
1.001	.022	.42145	.20100	.12370	.45020	-.04470	590.30000	.08421	.03949	.16110	2.10943
1.001	1.037	.42145	.20170	.12450	.45030	-.04410	590.30000	.08470	.03980	.16165	2.10577
1.001	3.067	.42310	.20450	.12690	.45240	-.04320	590.30000	.08457	.04193	.16224	2.09073
1.001	5.099	.42530	.20540	.12750	.45460	-.04250	590.30000	.08455	.04195	.16323	2.08152
1.001	6.112	.42710	.20480	.12660	.45640	-.04190	590.30000	.08428	.04132	.16324	2.09622
1.001	7.135	.42680	.20380	.12560	.45550	-.04150	590.30000	.08427	.04133	.16215	2.10573
1.001	9.172	.43160	.20390	.12490	.46070	-.04120	590.30000	.08260	.04230	.16135	2.12812
GRADIENT		.00019	.00046	.00044	.00025	.00033	-5.00000	.00032	.00012	.00036	-1.00459

RUN NO. 72/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-5.421	.34370	.17980	.11690	.36980	-.03770	565.70000	.08317	.03175	.14809	1.91730
2.002	-3.368	.34060	.17920	.11690	.36670	-.03600	565.70000	.08355	.03135	.14792	1.90660
2.002	-1.358	.33790	.17820	.11640	.36390	-.03510	565.70000	.08349	.03091	.14738	1.90167
2.002	-.342	.33760	.17770	.11600	.36340	-.03450	565.70000	.08346	.03084	.14727	1.90144
2.002	.670	.33870	.17710	.11550	.36440	-.03430	565.70000	.08475	.03045	.14674	1.91742
2.002	2.705	.33800	.17780	.11610	.36380	-.03290	565.70000	.08351	.03119	.14689	1.90476
2.002	4.728	.33970	.17650	.11590	.36560	-.03220	565.70000	.08307	.03223	.14578	1.91369
2.002	5.747	.34290	.17630	.11570	.36880	-.03260	565.70000	.08272	.03298	.14550	1.92774
2.002	6.762	.34350	.17880	.11600	.36940	-.03350	565.70000	.08222	.03398	.14512	1.92419
2.002	8.792	.34610	.17920	.11610	.37210	-.03360	565.70000	.08117	.03431	.14453	1.91123
GRADIENT		-.00005	-.00033	-.00001	-.00008	.00005	-5.00000	-.00023	.00012	-.00024	-1.00095

ABC 97-747 0433B B C M F M I Y MOM. RM/L

(REK037) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 98.1 FT. TMRP = 32.3010 IN.
 LREF = 14.2440 IN. TMRP = .0000 IN.
 BREF = 29.1004 IN. ZMRP = 11.8900 IN.
 SCALE = .0000 SCALE

ALPHA = 20.000 ELEVOM = .000
 AIROM = .000 BDFLAP = -11.700
 SPDRK = 25.000 PUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PUN NO. 747 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLWMD	Q	CAF	CDF	L/D
1.001	-5.152	.62120	4.517	1.2260	.91480	-.07170	590.35000	.03971	.35099	2.01485
1.001	-2.998	.51930	4.050	1.2410	.91200	-.07150	590.35000	.05042	.35280	2.05484
1.001	-1.354	.61997	4.084	1.2550	.91340	-.07110	590.35000	.06283	.35356	1.99795
1.001	.084	.51777	4.080	1.2620	.91320	-.07170	590.35000	.06935	.35266	1.93530
1.001	1.000	.61620	4.080	1.2640	.91320	-.07110	590.35000	.06149	.35226	1.99226
1.001	3.133	.61320	4.080	1.2550	.91360	-.06950	590.35000	.06166	.35484	1.93269
1.001	5.175	.52370	4.060	1.2440	.91350	-.06830	590.35000	.06208	.35390	2.05544
1.001	6.202	.61330	4.060	1.2290	.91380	-.06790	590.35000	.05944	.35330	2.12100
1.001	-.222	.62240	4.030	1.2330	.91340	-.06650	590.35000	.05827	.35716	2.02693
1.001	9.272	.61560	4.050	1.2390	.91350	-.06660	590.35000	.05566	.35414	2.03848
GRADIENT		.00000	1.0000	1.0000	1.0000	1.0000	-1.0000	.00000	.00000	-1.0000

PUN NO. 737 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLWMD	Q	CAF	CDF	L/D
2.002	-5.415	.70190	3.630	1.2650	.78480	-.05000	565.90000	.06411	.32359	1.96182
2.002	-5.364	.69870	3.630	1.2790	.78150	-.04810	565.90000	.06423	.32361	1.95139
2.002	-1.328	.69910	3.630	1.2720	.78180	-.04800	565.90000	.06472	.32320	1.95323
2.002	-.304	.69900	3.620	1.2690	.78270	-.04610	565.90000	.06439	.32245	1.95761
2.002	.712	.69780	3.620	1.2650	.78320	-.04760	565.90000	.06379	.32351	1.95933
2.002	2.757	.69860	3.610	1.2590	.78390	-.04750	565.90000	.06271	.32309	1.96312
2.002	4.801	.70100	3.600	1.2400	.78280	-.05050	565.90000	.06026	.32374	1.97360
2.002	5.815	.70180	3.610	1.2360	.78360	-.05290	565.90000	.05908	.32492	1.97619
2.002	6.844	.70190	3.600	1.2320	.78350	-.05290	565.90000	.05833	.32405	1.98107
2.002	6.990	.69910	3.590	1.2310	.78310	-.05190	565.90000	.05780	.32440	1.98478
GRADIENT		.00000	-1.0000	-1.0000	-1.0000	-1.0000	-1.0000	.00000	.00000	-1.0000

ARC 97-747 04138 B C M F W I V MOM. RM/L

(REK038) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 30 FT. IMPP = 32.3010 IM.
 LBREF = 14.2440 IM. YML = .0000 IM.
 RBREF = 26.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 65.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 77/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	θ	CAF	CAB	CDF	L/D
1.601	-1.494	-1.0910	.18240	.17940	-1.1380	.06150	584.90000	.13974	.03966	.14266	-1.59836
1.601	-1.169	-0.95150	.17710	.17690	-0.93200	.07050	584.90000	.13728	.03962	.13743	-1.29074
1.601	1.379	.01810	.17360	.17310	.02230	.05820	584.90000	.13412	.03898	.13462	-1.04483
1.601	3.433	.11040	.17000	.16910	.12080	.04180	584.90000	.13008	.03922	.13708	-1.62744
1.601	5.500	.20290	.16410	.16380	.21960	.02310	584.90000	.12512	.03868	.14559	1.10210
1.601	7.570	.29200	.20070	.16050	.31590	.01010	584.90000	.12156	.03944	.16162	1.45480
1.601	9.637	.37260	.22130	.15580	.45440	.00120	584.90000	.11519	.04061	.18126	1.68374
1.601	12.730	.49700	.26370	.14960	.64330	-.01160	584.90000	.10820	.04145	.22126	1.87086
1.601	15.840	.62140	.32340	.14350	.88660	-.02480	584.90000	.09960	.04390	.28322	1.90918
1.601	18.940	.73890	.39820	.13670	.12940	-.03260	584.90000	.09067	.04693	.35458	1.85623
1.601	22.060	.84910	.48370	.12940	.96860	-.03680	584.90000	.08289	.04641	.44970	1.75537
1.601	25.170	.94970	.58090	.12190	1.15700	-.03910	584.90000	.07414	.04776	.53761	1.63480
1.601	29.090	1.04390	.71390	.11670	1.23500	-.02860	584.90000	.06405	.05265	.66807	1.46124
GRADIENT		.04460	-.00127	-.00212	.04766	-.00804	.00000	-.00197	-.00015	-.00108	.24973

RUN NO. 81/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	θ	CAF	CAB	CDF	L/D
2.002	-1.443	-.09490	.16640	.16390	-.09910	.05430	575.40000	.13826	.02864	.13771	-1.57073
2.002	-1.182	-.04960	.16240	.16230	-.05010	.04820	575.40000	.13357	.02873	.13373	-1.30591
2.002	1.351	.05770	.15950	.15430	.01150	.04040	575.40000	.12995	.02935	.13019	-1.04652
2.002	3.414	.08270	.16090	.15570	.09210	.02970	575.40000	.12600	.02970	.13126	-1.31374
2.002	5.466	.15820	.16710	.15130	.17340	.01920	575.40000	.12254	.02926	.13800	-.94637
2.002	7.517	.22980	.17970	.14710	.25120	.01110	575.40000	.11761	.02949	.14946	1.28536
2.002	9.580	.30280	.19560	.14240	.33120	.00550	575.40000	.11293	.02947	.16647	1.54970
2.002	12.670	.41090	.23160	.13590	.43170	.00000	575.40000	.10650	.02980	.20249	1.77450
2.002	15.770	.52160	.28310	.13050	.57690	-.00380	575.40000	.09933	.03237	.23196	1.94234
2.002	18.860	.62970	.34620	.12410	.70790	-.01240	575.40000	.09279	.03331	.31473	1.81374
2.002	21.990	.73330	.42220	.11700	.83800	-.01990	575.40000	.08300	.03441	.39675	1.73638
2.002	25.070	.83200	.51010	.10960	.96970	-.02690	575.40000	.07446	.03514	.47833	1.63067
2.002	28.980	.94440	.63370	.09690	1.13300	-.03050	575.40000	.06601	.03489	.61319	1.48994
GRADIENT		.03664	-.00110	-.00172	.03944	-.00311	.00000	-.00196	-.00024	-.00132	.22427

ARC 97-747 04538 B C M F W I V MON. M/L

(REK040) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 58-FT. TMRP = 32.3010 IN.
 LREF = 14.2440 IN. TMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0000 SCALE

RUN NO. 79/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFW	CLMFW	CAF	CAB	CAF	CDF	L/D
1.001	-5.043	.39770	.23020	.15650	-.43210	-.00340	589.10000	.11396	.04254	.18788	.18788	1.73836
1.001	-3.916	.39070	.22870	.15630	-.42490	-.00030	589.10000	.11371	.04259	.18376	.18376	1.71844
1.001	-.987	.39120	.22780	.15530	-.42330	-.00100	589.10000	.11381	.04149	.18393	.18393	1.72788
1.001	.033	.39220	.22770	.15310	-.42620	-.00140	589.10000	.11433	.04077	.18660	.18660	1.73225
1.001	1.051	.39480	.22630	.15120	-.42860	-.00150	589.10000	.11413	.04107	.18682	.18682	1.73265
1.001	3.075	.39830	.22510	.15670	-.43060	-.00070	589.10000	.11481	.04189	.18784	.18784	1.73226
1.001	5.118	.39900	.23100	.15720	-.43340	-.00060	589.10000	.11526	.04194	.18876	.18876	1.73650
1.001	6.126	.40030	.23030	.15820	-.43460	-.00060	589.10000	.11434	.04186	.18807	.18807	1.74829
1.001	7.154	.40220	.22890	.15450	-.43680	-.00050	589.10000	.11281	.04169	.18684	.18684	1.75721
1.001	9.169	.40820	.22650	.15120	-.44170	-.00040	589.10000	.10965	.04255	.18370	.18370	1.81174
GRADIENT		.00099	.00023	.00005	-.00100	-.00008	-.00000	.00018	-.00012	.00035	.00035	.00257

RUN NO. 83/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFW	CLMFW	CAF	CAB	CAF	CDF	L/D
2.002	-5.422	.32350	.20500	.14510	-.35440	-.00380	579.90000	.11393	.03117	.17374	.17374	1.58396
2.002	-3.389	.32020	.20360	.14470	-.35090	-.00470	579.90000	.11376	.03044	.17237	.17237	1.57941
2.002	-1.361	.32000	.20170	.14250	-.35240	-.00420	579.90000	.11280	.02970	.17194	.17194	1.53225
2.002	-.342	.31880	.20060	.14160	-.34900	-.00420	579.90000	.11240	.02820	.17123	.17123	1.59513
2.002	.670	.31830	.19990	.14100	-.34850	-.00380	579.90000	.11174	.02926	.17056	.17056	1.53861
2.002	2.710	.31840	.20110	.14220	-.34870	-.00450	579.90000	.11147	.03073	.17033	.17033	1.55816
2.002	4.727	.31820	.20030	.14160	-.34840	-.00430	579.90000	.10940	.03210	.16834	.16834	1.59301
2.002	5.745	.32000	.20020	.14110	-.35010	-.00420	579.90000	.10839	.03271	.16734	.16734	1.60340
2.002	6.761	.32270	.19990	.14030	-.35270	-.00370	579.90000	.10695	.03335	.16557	.16557	1.61664
2.002	8.800	.32630	.19890	.13880	-.35600	-.00260	579.90000	.10444	.03476	.16467	.16467	1.64470
GRADIENT		-.00027	-.00034	-.00025	-.00032	-.00002	.00000	-.00049	.00023	-.00053	-.00053	.00014



ARC 97-747 04338 B C M F W V MOM. RW/L

(IREK041) (04 APR 74)

REFERENCE DATA

REF = 2.4210 80-FT. KMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BOFLAP = -11.700
 SPDBRK = 85.000 RUCCER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 99/ 0 RW/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
1.001	-5.249	.63215	.43510	.12663	.90360	-.03700	591.00000	.08115	.04345	.39716	1.88266
1.001	1.000	.93700	.41100	.12930	.92210	-.03600	591.00000	.08579	.04751	.38115	1.86638
1.001	1.910	.71640	.44950	.13220	.89980	-.03480	591.00000	.08721	.04449	.36070	1.84528
1.001	2.820	.47900	.48300	.13530	.87300	-.03350	591.00000	.08729	.04191	.34287	1.82100
1.001	3.730	.27100	.47400	.13840	.84300	-.03220	591.00000	.08687	.03967	.32700	1.79500
1.001	4.640	.09200	.46500	.14150	.81000	-.03090	591.00000	.08600	.03700	.31200	1.76700
1.001	5.550	-.14700	.45600	.14460	.77500	-.02960	591.00000	.08480	.03400	.29800	1.73700
1.001	6.460	-.34200	.44700	.14770	.73800	-.02830	591.00000	.08330	.03060	.28500	1.70500
1.001	7.370	-.50000	.43800	.15080	.70000	-.02700	591.00000	.08150	.02690	.27300	1.67000
1.001	8.280	-.62000	.42900	.15390	.66200	-.02570	591.00000	.07950	.02290	.26200	1.63300
1.001	9.190	-.70000	.42000	.15700	.62500	-.02440	591.00000	.07730	.01870	.25200	1.59500
1.001	10.100	-.75000	.41100	.16010	.58800	-.02310	591.00000	.07490	.01420	.24300	1.55700
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 24/ 0 RW/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-5.416	.68740	.37830	.11490	.77620	-.02210	579.90000	.08287	.03203	.34335	1.84790
2.002	-3.563	.68220	.37980	.11820	.77190	-.01800	579.90000	.08555	.03265	.34440	1.82600
2.002	-1.325	.67690	.38250	.12190	.76900	-.01610	579.90000	.08579	.03312	.34456	1.81434
2.002	1.356	.67610	.38050	.12000	.76820	-.01580	579.90000	.08642	.03356	.34395	1.81311
2.002	2.758	.67940	.37970	.11920	.76800	-.01620	579.90000	.08548	.03372	.34299	1.81731
2.002	4.056	.68280	.37760	.11680	.76840	-.01920	579.90000	.08310	.03352	.34097	1.83086
2.002	5.031	.68480	.37500	.11330	.77070	-.02270	579.90000	.07972	.03358	.33851	1.85231
2.002	6.044	.68910	.37420	.11180	.77240	-.02690	579.90000	.07705	.03475	.33558	1.86218
2.002	6.889	.68890	.37190	.10820	.77550	-.03150	579.90000	.07534	.03486	.33415	1.88326
2.002	7.692	.68890	.36700	.10360	.77370	-.03610	579.90000	.06934	.03426	.32978	1.91066
GRADIENT	.00013	-.00064	-.00067	-.00012	-.00012	-.00065	-.00000	-.00078	.00011	-.00077	.00361

ARC 97-747 QAS38 S C M F MI V MOM. RM/L

(REK042) (04 APR 74)

REFERENCE DATA

ARC P 2.4210 90.FT. ZMRP = 32.3010 IN.
 LREV = 1.2445 IN. TMRP = .0000 IN.
 RREV = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = 15.000
 ALLOM = 3.000 EOP LAP = -11.700
 SDRPP = 35.000 FUDDER = .000
 ELEV-L = 15.000 ELEV-R = 3.000

FUN NO. 03/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMP#0	Q	CAF	CAB	COF	L/D
1.001	-1.402	-0.3440	.16990	.16890	-.03680	.00500	598.10000	.12157	.04323	.12663	-0.20265
1.001	-.100	.02200	.16750	.16760	.02150	-.00460	598.10000	.12485	.04311	.12438	.13182
1.001	1.263	-.09790	.16700	.16480	-.09190	-.01150	598.10000	.12222	.04265	.12437	-.02685
1.001	3.418	.17500	.17230	.16140	.18090	-.02950	598.10000	.11933	.04205	.13240	1.03809
1.001	5.493	.27160	.16420	.15730	.26820	-.04530	598.10000	.11658	.04122	.14114	1.47594
1.001	7.562	.35970	.20070	.15460	.32340	-.07850	598.10000	.11332	.04158	.16249	1.76184
1.001	9.616	.44360	.22910	.15160	.47960	-.09360	598.10000	.11091	.04250	.18712	1.97176
1.001	12.740	.56760	.27980	.14740	.61550	-.08270	598.10000	.10831	.04423	.21663	2.02807
1.001	15.850	.69810	.34670	.14260	.76670	-.02890	598.10000	.09427	.04391	.30191	2.01431
1.001	18.960	.81330	.42460	.13770	.90590	-.00760	598.10000	.08185	.04428	.36824	1.83035
1.001	22.060	.92460	.51560	.12970	1.02920	-.01330	598.10000	.06487	.04443	.47334	1.33602
1.001	25.210	1.02900	.62440	.12650	1.13900	-.01697	598.10000	.04956	.04714	.60329	1.64712
1.001	29.080	1.13500	.76900	.12270	1.25100	-.01120	598.10000	.03750	.05178	.72747	1.46911
GRADIENT	.04340	.00012	-.00157	-.00157	-.00215	.00000	.00000	-.00131	-.00000	.00161	.00113

FUN NO. 06/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	C	CC	CA	CN	CLMP#0	Q	CAF	CAB	COF	L/D
2.002	-1.492	-.04170	.19480	.19360	-.04270	-.00230	586.00000	.12223	.03137	.11738	-.02914
2.002	-.100	.00280	.19210	.19210	.00530	-.01660	586.00000	.12051	.03119	.11790	1.0137
2.002	1.233	-.09990	.19140	.19020	-.09340	-.01600	586.00000	.11880	.03111	.11813	-.01847
2.002	3.357	.13960	.18610	.18720	.14880	-.01970	586.00000	.11605	.03145	.12467	1.0330
2.002	5.449	.20750	.16530	.18460	.22220	-.01950	586.00000	.11320	.03160	.13379	1.02313
2.002	7.521	.27970	.18010	.18120	.30090	-.04650	586.00000	.11037	.03183	.14880	1.0111
2.002	9.563	.35110	.20000	.17930	.37910	-.07120	586.00000	.10754	.03196	.16711	1.0046
2.002	12.650	.40130	.24100	.18100	.50380	-.05720	586.00000	.10464	.03245	.20300	1.01390
2.002	15.770	.52460	.29610	.18260	.61360	-.06420	586.00000	.09926	.03254	.26483	1.04073
2.002	18.870	.64350	.36410	.18260	.76450	-.07240	586.00000	.09378	.03267	.33316	1.07647
2.002	21.970	.76690	.44540	.18160	.89810	-.08110	586.00000	.08708	.03270	.41437	1.09081
2.002	25.120	.89240	.54350	.18160	1.02100	-.08980	586.00000	.08040	.03271	.51183	1.04218
2.002	28.260	1.02000	.67700	.18100	1.12100	-.09260	586.00000	.06976	.03272	.64616	1.04970
GRADIENT	.03721	.00031	-.00126	-.00126	-.00165	.00000	.00000	-.00124	-.00000	.00135	.00138



ARC 97-747 OAS38 B C M F W I V WDM. RM/L

(REK043) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 20.1094 IN. ZMRP = 11.8500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLROM = 15.000 BDFLAP = -11.700
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

RUN NO. 88/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
1.601	-1.465	-0.0400	.17690	.17460	-.04930	.04480	592.70000	.13377	.04083	.13601	-.47961
1.601	-1.193	-.02830	.17350	.17320	-.04890	.03480	592.70000	.13270	.04050	.13280	-.16240
1.601	1.354	.03620	.17140	.17050	.04320	.02470	592.70000	.12992	.04053	.12584	-.81027
1.601	3.429	.13370	.17490	.16640	.14930	.00870	592.70000	.12530	.04111	.12351	.74684
1.601	5.489	.02270	.17370	.16140	.14920	-.00680	592.70000	.12085	.04057	.1216	.21245
1.601	7.562	.13240	.17350	.15930	.14650	-.12130	592.70000	.11723	.04057	.12150	1.35774
1.601	12.730	.02750	.17190	.14930	.14650	-.03260	592.70000	.1254	.04055	.12159	1.37647
1.601	15.845	.65120	.15660	.14230	.14720	-.13610	592.70000	.10527	.04057	.12237	1.32977
1.601	19.950	.76980	.40630	.13400	.05020	-.07040	592.70000	.09018	.04410	.25018	1.07734
1.601	20.060	.49650	.49650	.12940	1.01000	-.07470	592.70000	.08363	.04057	.40146	1.69216
1.601	25.180	.93340	.60160	.12600	1.14600	-.07870	592.70000	.07796	.04004	.55111	1.63478
1.601	29.110	1.08100	.73730	.13430	1.30400	-.06930	592.70000	.06950	.05120	.65423	1.46294
GRADIENT	.04380	-.00245	-.13170	.04686	-.00730	-.00000	-.00000	-.00177	.00007	-.00246	.25050

RUN NO. 89/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	Q	CAF	CAB	CDF	L/D
2.002	-1.495	-.07980	.15830	.15530	-.04390	.02300	584.50000	.12675	.02915	.12889	-.50497
2.002	-.201	-.03380	.15400	.15390	-.03430	.01690	584.50000	.12449	.02941	.12461	-.21919
2.002	1.341	.02240	.15210	.15150	.02590	.00980	584.50000	.12197	.02953	.12254	.14696
2.002	3.397	.09850	.15440	.14830	.10750	-.00030	584.50000	.11867	.02963	.12483	.63807
2.002	5.448	.17090	.16160	.14460	.18540	-.01000	584.50000	.11475	.02985	.13184	1.05747
2.002	7.500	.24630	.17490	.14120	.26710	-.01890	584.50000	.11071	.03049	.14463	1.40908
2.002	9.582	.32080	.19320	.13710	.34850	-.02520	584.50000	.10702	.03008	.15354	1.66056
2.002	12.660	.42960	.23100	.13120	.46980	-.03110	584.50000	.10043	.03077	.20296	1.86005
2.002	15.800	.54460	.28310	.12610	.60170	-.03790	584.50000	.09401	.03209	.25429	1.90987
2.002	18.880	.63390	.35110	.12090	.73230	-.04580	584.50000	.08824	.03266	.32022	1.85228
2.002	21.950	.71700	.42870	.11470	.86240	-.05380	584.50000	.08154	.03316	.39799	1.76563
2.002	25.080	.80930	.52330	.10970	1.00000	-.06240	584.50000	.07454	.03516	.49140	1.64211
2.002	28.970	.97600	.63450	.09950	1.17100	-.07030	584.50000	.06454	.03496	.62398	1.49115
GRADIENT	.03648	-.00068	-.00068	-.00155	.03915	-.00475	-.00000	-.00185	.00009	-.00077	.23438

ARC 97-747 OA338 B C M F W1 V NOM. RN/L

(IRK044) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .3300 SCALE

BETA = .000 ELEVOM = -10.000
 AIRLOW = 15.000 BDFLAP = -11.700
 SP2BRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

RUN NO. 91/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	q	CAF	CAB	CDF	L/D
1.000	-1.469	-1.4020	.17720	.17360	-1.1470	.07970	600.20000	.13509	.03851	.13875	-1.79097
1.600	-1.194	-0.98290	.17200	.17170	-0.9350	.06950	600.20000	.13298	.03872	.13326	-1.48214
1.600	1.365	-0.10000	.16840	.16860	-0.0660	.05660	600.20000	.12875	.03885	.12957	-1.05947
1.600	3.428	.08370	.16950	.16420	.09370	.04150	600.20000	.12533	.03867	.13071	-.49386
1.600	5.488	.17410	.17640	.15890	.19020	.02650	600.20000	.12009	.03891	.13773	.98735
1.600	7.526	.26100	.19100	.15510	.28370	.01400	600.20000	.11560	.03950	.15176	1.36675
1.600	9.658	.34840	.21190	.15080	.37890	.00180	600.20000	.11032	.04048	.17201	1.64405
1.600	12.710	.47210	.25350	.14340	.51630	-.01110	600.20000	.10220	.04120	.21329	1.82246
1.600	15.850	.60390	.31320	.13660	.66640	-.02540	600.20000	.09282	.04458	.27032	1.92803
1.600	18.950	.72340	.38580	.13000	.80940	-.03210	600.20000	.08431	.04569	.34259	1.87484
1.600	22.090	.85480	.47230	.12370	.95110	-.03650	600.20000	.07395	.04795	.42786	1.76747
1.600	25.180	.93970	.57120	.11710	1.09300	-.04150	600.20000	.06723	.04987	.52588	1.64503
1.600	29.110	1.03900	.70620	.11120	1.23200	-.02950	600.20000	.05907	.05213	.66970	1.47225
GRADIENT		.04582	-.00153	-.00194	.54878	-.00786	-.00000	-.00221	.00027	-.00159	.26373

RUN NO. 90/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFWO	q	CAF	CAB	CDF	L/D
2.002	-1.459	-1.1410	.16170	.15870	-1.1820	.04780	565.80000	.13007	.02863	.13304	-1.70594
2.002	-1.198	-0.68870	.15830	.15610	-0.6920	.04150	565.80000	.12703	.02907	.12727	-1.43317
2.002	1.357	-0.09980	.15330	.15350	-.00620	.03410	565.80000	.12416	.02934	.12398	-.07414
2.002	3.580	.06530	.15310	.14900	.07420	.02440	565.80000	.11949	.02951	.12365	-.42639
2.002	5.450	.14030	.15880	.14470	.15470	.01410	565.80000	.11490	.02980	.12907	.88157
2.002	7.498	.21260	.16960	.14040	.23290	.00620	565.80000	.11027	.03013	.15972	1.25353
2.002	9.556	.28340	.18350	.13540	.31230	.00050	565.80000	.10550	.03010	.15568	1.54013
2.002	12.640	.39450	.21970	.12810	.43310	-.00390	565.80000	.09997	.03113	.18939	1.79540
2.002	15.730	.50400	.26890	.12220	.58800	-.00810	565.80000	.09562	.03268	.23745	1.87421
2.002	18.810	.61220	.33150	.11620	.69530	-.01440	565.80000	.08953	.03427	.29884	1.84793
2.002	21.950	.71630	.40610	.10890	.81620	-.02080	565.80000	.07795	.03495	.37368	1.76392
2.002	25.060	.81860	.49490	.10150	.95120	-.02800	565.80000	.06945	.03605	.46219	1.65440
2.002	28.940	.92950	.61750	.09060	1.11200	-.03190	565.80000	.05826	.03534	.58645	1.50524
GRADIENT		.03717	-.00170	-.00198	.03984	-.00481	.00000	-.00216	.00018	-.00186	.25332

AR 37 347 01-335 B C M F W I V NOM. RN/L

(REK045) (04 APR 74)

REFERENCE DATA

SREF = 2.4815 86-FT. ZMRP = 32.3510 IN.
 LREF = 14.2445 IN. ZMRP = .0000 IN.
 BRP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -80.000
 AILEOM = 5.000 BDFLAP = -11.700
 SPBRK = 55.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -35.000

RUN NO. 35/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMF40	Q	CAF	CAB	CDF	L/D
1.000	-1.478	-1.3660	-1.4490	-1.7500	-1.20150	.11850	598.40000	.14863	.03717	.14778	-1.56412
1.000	-1.196	-1.5900	-1.7300	-1.7750	-1.33960	.10830	598.40000	.13362	.03788	.14011	-1.78001
1.000	1.130	-1.0630	-1.7280	-1.7440	-1.56870	.09630	598.40000	.13567	.03673	.15741	-1.40341
1.000	3.465	1.2570	-1.7190	-1.6930	.03380	.08050	598.40000	.14	.04876	.17104	1.4938
1.000	-1.403	-1.2320	-1.7140	-1.8420	-1.3720	.06500	598.40000	.1764	.04030	.1619	1.68547
1.000	5.72	1.340	-1.710	-1.8100	.03100	.02000	598.40000	.11000	.0490	.1709	1.11146
1.000	9.342	1.3500	-1.710	-1.8300	.02690	.03940	598.40000	.13225	.04665	.15742	1.42661
1.000	11.720	1.4280	-1.7430	-1.4500	.04830	.02470	598.40000	.10259	.04241	.21318	1.27936
1.000	13.830	1.5420	-1.7430	-1.5570	.01430	.01340	598.40000	.04340	.04430	.21267	1.85126
1.000	16.920	1.6270	-1.6660	-1.2830	.05330	.05810	598.40000	.08140	.04200	.32190	1.83354
1.000	22.120	1.7570	-1.4500	-1.0120	.09740	.03050	598.40000	.07126	.04094	.40593	1.74508
1.000	25.160	1.8870	-1.4230	-1.1400	1.03430	.00100	598.40000	.06379	.05121	.44644	1.67435
1.000	29.100	1.9880	-1.6720	-1.1670	1.19100	-0.01470	598.40000	.05370	.05300	.68814	1.47059
GRADIENT	.04557	-1.00263	-1.00204	.04862		-0.00775	.00500	-1.00257	.00053	-0.00316	.24900

RUN NO. 32/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMF40	Q	CAF	CAB	CDF	L/D
2.002	-1.478	-1.1530	-1.6540	-1.6130	-1.15950	.07710	565.40000	.13476	.02654	.13883	-1.93915
2.002	-2.209	-1.0590	-1.5810	-1.5770	-1.10650	.06980	565.40000	.13135	.02635	.13174	-1.87002
2.002	1.336	-0.04870	-1.5380	-1.5490	-1.04310	.06310	565.40000	.12789	.02701	.12680	-1.31663
2.002	3.368	0.02720	-1.5170	-1.4980	.03610	.05240	565.40000	.12250	.02730	.12441	-1.17959
2.002	5.464	1.0440	-1.5340	-1.4470	.11870	.04170	565.40000	.11696	.02774	.12773	.67194
2.002	7.520	1.7930	-1.6430	-1.3940	.19920	.03310	565.40000	.11101	.02839	.13512	1.09114
2.002	9.522	2.4990	-1.7740	-1.3360	.27580	.02760	565.40000	.10539	.02821	.14956	1.40880
2.002	12.630	3.6010	-2.0980	-1.2600	.39730	.02360	565.40000	.09665	.02935	.18118	1.71639
2.002	15.730	4.7260	-2.5780	-1.2000	.52460	.01900	565.40000	.08800	.03200	.22698	1.83339
2.002	18.840	5.8010	-3.1710	-1.1270	.65140	.01400	565.40000	.07962	.03308	.28571	1.82990
2.002	21.950	6.8180	-3.8810	-1.0510	.00930	.00930	565.40000	.07130	.03380	.35672	1.75679
2.002	25.010	7.8210	-4.7170	-0.9680	.00370	.00370	565.40000	.06176	.03504	.43994	1.65812
2.002	28.930	8.9350	-5.9170	-0.8850	1.06800	-0.00290	565.40000	.05100	.03530	.56071	1.50989
GRADIENT	.03758	-1.00272	-1.00232	.04028		-0.00502	.00000	-1.00251	.00019	-0.00269	.23148

PARAMETRIC DATA

ARC 87-747 04538 B C M F W I V MOM. RN/L

(REK046) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 36-FT. XMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 BREF = 28.1094 IN. ZMRP = 11.2590 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 ALLROM = .000 BOFLAP = -11.700
 SPCBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 94/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
1.001	-5.159	-0.4660	.17590	.17590	-0.04710	.06340	589.70000	.13348	.04232	.13348	-0.26792
1.001	-3.103	-0.4910	.17753	.17753	-0.04960	.06760	589.70000	.13607	.04113	.13607	-0.27991
1.001	-1.042	-0.4880	.17680	.17670	-0.04920	.06850	589.70000	.13675	.03995	.13675	-0.27844
1.001	-0.012	-0.4580	.17610	.17600	-0.04630	.06790	589.70000	.13641	.03959	.13641	-0.26357
1.001	1.012	-0.4770	.17690	.17680	-0.04630	.06850	589.70000	.13699	.03981	.13699	-0.27319
1.001	3.079	-0.4730	.17850	.17850	-0.04790	.06830	589.70000	.13733	.04097	.13733	-0.26865
1.001	5.143	-0.4640	.17860	.17840	-0.04710	.06720	589.70000	.13685	.04185	.13685	-0.26401
	GRADIENT	.00032	.00018	.00017	.00029	.00010	-1.00000	.00019	-.00003	.00019	.00190

RUN NO. 99/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFW	Q	CAF	CAB	COF	L/D
2.002	-5.349	-0.4510	.16120	.16110	-0.04560	.04080	583.70000	.13033	.03077	.13033	-0.26375
2.003	-3.478	-0.4650	.16320	.16310	-0.04890	.04570	583.70000	.13324	.02956	.13324	-0.26982
2.002	-1.418	-0.4710	.16320	.16310	-0.04760	.04720	583.70000	.13386	.02924	.13386	-0.29185
2.003	-.391	-0.4690	.16300	.16280	-0.04750	.04750	583.70000	.13369	.02911	.13369	-0.29177
2.003	.640	-0.4800	.16300	.16280	-0.04860	.04730	583.70000	.13319	.02961	.13319	-0.29453
2.003	2.700	-0.4530	.16360	.16340	-0.04580	.04730	583.70000	.13296	.03044	.13296	-0.28029
2.002	4.766	-0.4250	.16290	.16270	-0.04310	.04420	583.70000	.13130	.03140	.13130	-0.26450
	GRADIENT	.00067	-.00001	-.00002	.00065	-.00016	-1.00000	-.00024	.00022	-.00024	.00396



ARC 97-747 0A533B B C M F W I V NOM. RM/L

(REK047) (04 APR 74)

REFERENCE

PARAMETRIC DATA

BREF # 2.4210 84.1FT YMRP # 32.3010 IN.
 LREF # 14.2440 IN. YMRP # .0000 IN.
 BREF # 28.1004 IN. ZMRP # 11.2500 IN.
 SCALE # .0300 SCALE

ALPHA # 10.000 ELEVOM # .000
 AIRLORN # .000 BDFLAP # -11.700
 SPDBRK # 85.000 RUDDER # -10.000
 ELEV-L # .000 ELEV-R # .000

RUN NO. 95/ 0 RM/L # 2.74 GRADIENT INTERVAL # -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
1.601	-5.1541	.4720	.2290	.19540	.43890	-.00410	593.90000	.11285	.74255	.16680	1.75998
1.601	3.5515	.33280	2.870	.19530	.30200	-.00200	593.90000	.11299	.74231	.16594	1.74282
1.601	-1.3386	.33520	2.970	.19440	.42910	-.00260	593.90000	.11332	.74088	.17631	1.74683
1.601	.0225	.33700	2.2750	.19400	.45070	-.00290	593.90000	.11395	.74015	.18691	1.75487
1.601	1.7440	.33800	2.2710	.19400	.42720	-.00190	593.90000	.11396	.74224	.18741	1.74876
1.601	3.0073	.39550	.22910	.19510	.42780	-.00190	593.90000	.11373	.74227	.18735	1.74113
1.601	3.0977	.40010	.23070	.19660	.43480	-.00270	593.90000	.11370	.74187	.18681	1.74555
1.601	7.1327	.43200	.22030	.19400	.47620	-.00220	593.90000	.11536	.74144	.18090	1.76885
1.601	9.1370	.45650	.22660	.19100	.43350	-.00350	593.90000	.10962	.74199	.18426	1.80173
GRADIENT	-1.0002	.00003	.00003	.00003	-.00002	.00005	-.00000	.00022	-.00019	.00021	-.00005

RUN NO. 98/ 0 RM/L # 2.73 GRADIENT INTERVAL # -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
2.003	-5.417	.32770	.26190	.14130	.35600	-.00270	583.30000	.11226	.73104	.17675	1.62937
2.003	-3.377	.32240	.26170	.14200	.35280	-.00430	583.30000	.11182	.73018	.17336	1.60594
2.002	-1.339	.32240	.25560	.14090	.35260	-.00430	583.30000	.11142	.72948	.17096	1.61398
2.003	-3.48	.32430	.20050	.14060	.35450	-.00400	583.30000	.11144	.72916	.17131	1.62332
2.003	.668	.32280	.20050	.14060	.35300	-.00430	583.30000	.11141	.72919	.17102	1.61804
2.003	2.694	.32240	.20190	.14230	.35280	-.00530	583.30000	.11176	.73054	.17133	1.60242
2.003	4.784	.32370	.20310	.14320	.35430	-.00520	583.30000	.11136	.73184	.17119	1.59967
2.003	5.757	.32260	.20270	.14310	.35310	-.00340	583.30000	.10963	.73327	.16948	1.59654
2.003	8.795	.32700	.20230	.14200	.35740	-.00020	583.30000	.10784	.73416	.16826	1.62112
GRADIENT	.00009	.00022	.00022	.00021	.00013	.00016	.00000	-.00003	.00023	-.00000	-.00137

ARC 97-747 0A53B B C M F W1 V MOM. RN/L

(REK048) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 36.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0050 IN.
 RREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 96/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPW	θ	CAF	CAB	CGF	L/D
1.601	-5.046	.80270	.43490	.12610	.90410	-.03670	592.70000	.08242	.04368	.38667	1.88540
1.601	-3.001	.79910	.43710	.12930	.90160	-.03430	592.70000	.08557	.04393	.38878	1.86700
1.601	-.954	.79810	.44030	.13270	.90180	-.03440	592.70000	.08701	.04569	.39020	1.85170
1.601	-.063	.79920	.44030	.13220	.90280	-.03380	592.70000	.08651	.04569	.39007	1.85481
1.601	1.091	.79820	.43900	.13130	.90140	-.03640	592.70000	.08603	.04527	.38914	1.85817
1.601	3.131	.80120	.43780	.12900	.90390	-.03730	592.70000	.08403	.04497	.38812	1.87110
1.601	5.177	.80310	.43600	.12650	.90500	-.03790	592.70000	.08233	.04417	.38689	1.88412
1.601	7.223	.80540	.43010	.12020	.90510	-.03490	592.70000	.07707	.04313	.38199	1.91569
1.601	9.282	.80630	.42380	.11400	.90390	-.04320	592.70000	.07200	.04200	.37681	1.94678
	GRADIENT	.00031	.00004	-.00014	.00032	-.00054	-.00000	-.00027	.00013	-.00015	-.00091

RUN NO. 97/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CD	CA	CN	CLMPW	θ	CAF	CAB	CGF	L/D
2.002	-5.413	.68350	.37560	.11370	.77150	-.02090	583.70000	.08156	.03214	.34051	1.95073
2.002	-3.365	.67330	.37820	.11760	.76850	-.01690	583.70000	.08499	.03261	.34271	1.82632
2.002	-1.322	.67780	.38010	.11980	.76780	-.01510	583.70000	.08641	.03339	.34381	1.81386
2.002	-.307	.67990	.37980	.11870	.76970	-.01720	583.70000	.08510	.03360	.34322	1.82149
2.002	.714	.68280	.38010	.11790	.77260	-.01800	583.70000	.08412	.03378	.34329	1.82832
2.003	2.756	.68560	.37890	.11570	.77470	-.02070	583.70000	.08197	.03373	.34199	1.84221
2.002	4.800	.69200	.37780	.11240	.78040	-.02400	583.70000	.07849	.03391	.34067	1.86531
2.003	6.840	.69420	.37510	.10960	.78150	-.03060	583.70000	.07453	.03467	.33733	1.88433
2.003	8.886	.69360	.37140	.10390	.77970	-.03320	583.70000	.07167	.03423	.33402	1.91132
	GRADIENT	.00167	-.00011	-.00074	.00154	-.00095	.00000	-.00088	.00014	-.00030	-.00536

AR. 37-747 GA33B B C M F W1 V NOM. RN/L SEAL.EU

(BEK049) (04 APR 74)

REFERENCE DATA

SREF = 2.4210 SB.FT. XMPF = 32.3010 IM.
 LREF = 14.2445 IM. YMRP = .0000 IM.
 BREF = 20.1504 IM. ZMPF = 11.2500 IM.
 SCALE = .5330 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLON = .000 BDFLAP = 16.500
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

PUN NO. 105/ 0 RN/L = 2.76 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
1.001	-1.466	.02155	.17400	.17330	.51700	-.04310	590.60000	.13271	.04259	.13224	1.12207
1.001	-1.397	.07450	.17450	.17450	.57430	-.05290	590.60000	.13202	.04258	.13176	.42562
1.001	1.0351	.14490	.17650	.17211	14930	-.06640	590.60000	.13081	.04219	.13429	.62151
1.001	3.413	.23760	.18450	.16960	.24920	-.08040	590.60000	.12835	.04145	.14290	1.28966
1.001	5.479	.33550	.19420	.16490	.34750	-.10570	590.60000	.12330	.04150	.15791	1.85641
1.001	7.544	.42190	.20340	.15430	.44750	-.13190	590.60000	.11937	.04233	.17145	1.86807
1.001	9.610	.50580	.21110	.14430	.54130	-.15850	590.60000	.12264	.04766	.20347	2.00719
1.001	12.730	.58600	.21690	.13480	.63800	-.18490	590.60000	.11771	.04449	.26555	2.24356
1.001	15.880	.66400	.22060	.12570	.74220	-.21080	590.60000	.11394	.04276	.33569	1.99442
1.001	18.940	.73400	.22400	.11670	.85300	-.23640	590.60000	.10965	.04775	.42465	1.68317
1.001	22.010	.79550	.22700	.10790	1.13400	-.26200	590.60000	.10740	.05790	.52399	1.74414
1.001	25.170	1.10300	.22920	.10020	1.29200	-.28310	590.60000	.10758	.06602	.64552	1.80074
1.001	28.095	1.25500	.23050	.10420	1.46200	-.29950	590.60000	.10973	.05647	.79271	1.43050
GRADIENT	.04444	.00820	-.00114	.04753	-.00831	-.00000	-.00000	-.00090	-.00024	.00024	.23996

PUN NO. 101/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CN	CLMFD	Q	CAF	CAB	CDF	L/D
2.002	-1.470	-.00265	.15820	.15610	-.00670	-.04050	580.10000	.12720	.03090	.12733	-.01670
2.002	-2.213	.04240	.15780	.15790	.04180	-.04720	580.10000	.12671	.03119	.12655	.26870
2.002	1.338	.13240	.15930	.15680	.10610	-.05970	580.10000	.12320	.03160	.12765	.64314
2.002	3.369	.17800	.16350	.15470	.18750	-.06750	580.10000	.12337	.03133	.13424	1.07560
2.002	5.445	.23060	.17720	.15260	.26630	-.07930	580.10000	.12141	.03119	.14513	1.41448
2.002	7.498	.28540	.19430	.15020	.34850	-.08930	580.10000	.11966	.03054	.16405	1.67463
2.002	9.553	.39820	.21690	.14780	.42870	-.09710	580.10000	.11726	.03054	.18678	1.83601
2.002	12.650	.51080	.26230	.14410	.53580	-.10700	580.10000	.11283	.03127	.23181	1.94706
2.002	15.750	.62970	.32390	.14190	.69020	-.11080	580.10000	.10942	.03248	.29266	1.93186
2.002	18.850	.73920	.40090	.14030	.82910	-.11320	580.10000	.10637	.03413	.36554	1.84423
2.002	21.950	.84430	.48970	.13860	.96610	-.114610	580.10000	.10320	.03552	.45692	1.72411
2.002	25.050	.99020	.59490	.13660	1.11300	-.116370	580.10000	.09914	.03746	.56107	1.59742
2.002	28.970	1.07300	.74060	.12890	1.29700	-.118300	580.10000	.09116	.03734	.70796	1.44806
GRADIENT	.03732	.00154	-.00072	.04512	-.00356	-.00000	-.00000	-.00082	.00000	.00145	.22585

ARC 97-747 04538 B C M F W I Y MOM. RN/L SEAL,EL

(REK030) (04 APR 74)

REFERENCE DATA

BREF = 2.4210 90-FT. XMRP = 32.3010 IM.
 LRFP = 14.2440 IM. YMRP = .0000 IM.
 BRFP = 20.1004 IM. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLROM = .000 BDFLAP = 16.300
 SPDBRK = 53.000 PUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 102/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDP	L/D
1.000	-1.471	-.06580	.16370	.16190	-.07000	.02310	585.00000	.11985	.04205	.12161	-1.40222
1.000	-.196	-.00910	.16050	.16040	-.00970	.01390	585.00000	.11840	.04200	.11843	-.05701
1.000	1.370	.06310	.15930	.15770	.06690	.00820	585.00000	.11638	.04132	.11794	.39829
1.000	3.421	.15580	.16300	.15340	.16520	-.01710	585.00000	.11295	.04745	.12261	.95162
1.000	5.463	.24830	.17310	.14860	.26360	-.03420	585.00000	.10999	.03951	.13360	1.43483
1.000	7.525	.33590	.19120	.14760	.35810	-.04750	585.00000	.10483	.04077	.13582	1.75666
1.000	9.597	.42120	.21580	.14250	.45130	-.05970	585.00000	.10121	.04129	.13703	1.95243
1.000	12.730	.54370	.26520	.13890	.58880	-.07370	585.00000	.09497	.04392	.12238	2.04998
1.000	15.810	.67150	.32950	.13410	.73590	-.08860	585.00000	.08876	.04554	.28550	2.13784
1.000	18.930	.79340	.40870	.12920	.88310	-.09980	585.00000	.08262	.04658	.37404	1.94133
1.000	22.040	.90590	.49590	.12410	1.02500	-.10790	585.00000	.07653	.04807	.45510	1.80826
1.000	25.150	1.00600	.60550	.12040	1.16900	-.11280	585.00000	.06973	.05067	.55535	1.65135
1.000	28.050	1.09700	.74190	.11580	1.31300	-.10090	585.00000	.06197	.05337	.63465	1.47851
GRADIENT	.04838	-.00010	-.00176	.04816	-.00863	-.00000	-.00000	-.00141	-.00033	.00027	-.02860

RUN NO. 103/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CD	CA	CM	CLMFWO	Q	CAF	CAB	CDP	L/D
2.002	-1.472	-.06330	.15030	.14860	-.06730	.00650	578.40000	.11764	.03096	.11933	-1.42224
2.002	-.127	-.01780	.14750	.14740	-.01840	.00010	578.40000	.11617	.03123	.11624	-.12082
2.002	1.354	.04240	.14620	.14310	.04590	-.00890	578.40000	.11380	.03150	.11485	.29033
2.002	3.396	.11770	.14850	.14120	.12630	-.01980	578.40000	.11053	.03067	.11762	.75304
2.002	5.409	.19210	.15700	.13820	.20600	-.03070	578.40000	.10782	.03018	.12656	1.22086
2.002	7.500	.26780	.17110	.13460	.28780	-.04010	578.40000	.10420	.02940	.14081	1.56377
2.002	9.546	.34590	.18930	.13000	.36760	-.04870	578.40000	.10043	.02887	.15000	1.79933
2.002	12.650	.45170	.22910	.12460	.49090	-.05380	578.40000	.09399	.02851	.19922	1.97175
2.002	15.770	.56510	.29480	.12000	.62120	-.05610	578.40000	.08654	.02826	.23403	1.56138
2.002	18.840	.67210	.35290	.11690	.75000	-.05820	578.40000	.07803	.02809	.26079	1.30478
2.002	19.880	.70810	.37940	.11590	.79500	-.07160	578.40000	.06837	.02833	.34586	1.89693
2.002	21.960	.77690	.43470	.11260	.89310	-.07780	578.40000	.06719	.02841	.41183	1.78136
2.002	25.080	.87930	.52980	.10710	1.02100	-.08810	578.40000	.06006	.02824	.47824	1.65986
2.002	28.190	.99400	.66030	.09620	1.18900	-.09880	578.40000	.05945	.02875	.62791	1.50537
GRADIENT	.03730	-.00033	-.00154	.03985	-.00843	-.00000	-.00000	-.00147	-.00036	-.00027	-.02059

ARC 97-747 Q433B B C M F W I V MOM, RM/L

(AER001) (18 MAR 74)

REFERENCE DATA

BREF = 2.4215 80.FT. SHPP = 32.3010 IM.
 LREF = 14.2445 IM. YHPP = .0000 IM.
 BREF = 28.1024 IM. ZHPP = 11.2500 IM.
 SCALE = .0300 SCALE

PUN NO. 1 / 5 PNL = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYM	CBL	CYV	CYV	CYV	FCP/L	Q	CBLV
1.001	-1.514	.05820	.00360	.00080	-.00040	-.00200	.00040	.00040	.72640	598.40000	.00010
1.001	-1.149	.05740	.00350	.00070	-.00050	-.01300	.00410	.00410	-1.63100	598.40000	-.00100
1.001	2.346	-.02130	.00420	.00060	-.00060	-.00290	.00070	.00070	.88800	598.40000	.00000
1.001	6.046	-.01300	.00300	.00050	-.00050	-.00210	.00050	.00050	.79500	598.40000	.00010
1.001	9.148	-.01400	.00300	.00040	-.00050	-.00300	.00030	.00030	.69900	598.40000	-.00010
1.001	12.250	.01000	.00200	.00030	-.00030	-.01300	.00050	.00050	.64400	598.40000	-.00020
1.001	15.350	-.03700	.00200	.00020	-.00030	-.00300	.00050	.00050	.56100	598.40000	-.00010
1.001	16.400	-.01000	.00200	.00020	-.00030	-.00200	.00070	.00070	.63200	598.40000	-.00010
1.001	18.470	-.01500	.00400	.00030	-.00030	-.00300	.00010	.00010	.67000	598.40000	-.00020
1.001	19.400	-.01100	.00240	.00030	-.00030	-.00300	.00010	.00010	.67000	598.40000	-.00010
1.001	21.550	-.01340	.00400	.00030	-.00030	-.00240	.00010	.00010	.67500	598.40000	-.00010
1.001	24.700	-.02490	.00300	.00020	-.00030	-.00440	.00010	.00010	.67200	598.40000	-.00010
1.001	27.820	-.01300	.00300	.00020	-.00030	-.00340	.00010	.00010	.66500	598.40000	-.00010
GRADIENT		-.00040	.00010	.00002	-.00002	.00009	-.00010	.00009	.12000	.00000	.00004

PUN NO. 2 / 5 PNL = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYM	CBL	CYV	CYV	CYV	FCP/L	Q	CBLV
2.002	-1.505	-.01240	.00680	.00170	-.00010	-.00000	-.00070	-.00070	.62310	508.90000	.00000
2.002	-1.162	-.00700	.00630	.00150	.00000	-.00000	-.00040	-.00040	.85160	508.90000	.00000
2.002	2.925	-.02450	.00550	.00180	-.00020	-.00170	.00010	.00010	.71000	508.90000	.00000
2.002	6.010	-.04130	.00500	.00180	-.00040	-.00160	.00020	.00020	.69600	508.90000	.00040
2.002	9.097	-.03440	.00590	.00160	-.00040	-.00150	.00010	.00010	.68840	508.90000	.00040
2.002	12.190	-.06210	.00600	.00180	-.00020	-.00160	.00030	.00030	.68010	508.90000	.00030
2.002	15.300	-.06390	.00600	.00190	-.00020	-.00030	.00000	.00000	.67470	508.90000	.00000
2.002	18.390	-.07810	.00500	.00200	-.00030	-.00490	.00010	.00010	.67140	508.90000	-.00030
2.002	21.500	-.08820	.00450	.00200	-.00040	-.00600	.00030	.00030	.66960	508.90000	-.00050
2.002	24.590	-.09870	.00410	.00200	-.00040	-.00700	.00060	.00060	.66870	508.90000	-.00120
2.002	27.700	-.10810	.00020	.00060	-.00060	-.00000	.00030	.00030	.66740	508.90000	-.00010
GRADIENT		-.00063	-.00029	.00004	-.00003	-.00003	.00018	.00018	.00000	.00000	-.00011

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 ALPOM = .000 BDFLAP = 22.000
 SPDBK = 59.000 RUCDEP = .000
 ELEV-L = .000 ELEV-R = .000

ARC 97-747 04338 B C M F M I V MOM. RM/L

(AEK092) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 90-FT. ZMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BRP = 28.1004 IM. ZMRP = 11 1 70 IM.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -10.000
 ALLROM = .000 BDFLAP = -11.700
 SPDBK = 39.000 RUDDER = .000
 ELEV-L = -10.000 ELEV-R = -10.000

PARAMETRIC DATA

RUN NO. 3/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVY	CYNV	XCF/L	CBLV
1.001	-1.495	.09050	.00830	-.00010	-.00080	.00190	-.00100	.84630	.00000
1.001	-.146	.07980	.00800	-.00010	-.00090	.00150	-.00090	.91220	.00000
1.001	2.948	.05380	.00720	.00050	-.00060	.00170	-.00050	.27650	.00000
1.001	6.048	.03410	.00510	.00090	-.00050	.00060	-.00060	.77120	.00000
1.001	9.174	.01900	.00320	.00080	-.00010	.00050	-.00050	.61690	.00000
1.001	12.250	.00660	.00150	.00070	-.00030	.00050	-.00050	.63220	.00000
1.001	15.360	-.01020	.00050	.00100	.00080	.00010	-.00030	.63870	.00000
1.001	18.400	-.01620	.00010	.00120	.00050	-.00090	.00010	.64090	.00000
1.001	21.590	-.02240	.00040	.00150	.00020	-.00230	.00060	.64150	.00000
1.001	24.710	-.02900	.00040	.00190	-.00020	-.00390	.00120	.64110	.00000
1.001	27.820	-.03900	.00070	.00140	.00010	-.00330	.00140	.63360	.00000
GRADIENT		-.00779	-.00023	.00015	.00005	-.00005	.00002	-.14368	.00000

RUN NO. 4/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVY	CYNV	XCF/L	CBLV
2.002	-1.528	.05410	.01230	.00120	.00020	.00440	-.00020	.78770	.00150
2.002	-.155	.04740	.00800	.00120	.00000	.00270	-.00140	.87170	.00110
2.002	2.928	.03220	.00590	.00140	-.00040	.00290	-.00130	.39640	.00100
2.002	6.026	.01020	.00360	.00170	-.00030	.00190	-.00090	.59350	.00080
2.002	9.103	.00840	.00340	.00180	-.00050	.00150	-.00050	.62250	.00070
2.002	12.190	.00460	.00200	.00170	-.00050	.00190	-.00070	.62860	.00050
2.002	15.350	.00080	.00040	.00190	-.00050	.00010	-.00020	.63220	.00030
2.002	21.950	-.00260	.00090	.00230	-.00040	-.00250	.00030	.63650	.00030
2.002	24.620	-.01360	.00060	.00250	-.00060	-.00250	.00100	.63820	.00060
2.002	27.710	-.01370	.00430	.00220	.00000	-.00260	.00120	.63800	.00060
GRADIENT		-.02492	-.00131	.00005	-.00013	-.00027	.00017	-.03951	.00000

ARC 9' 747 QAS38 B C H F W L V NOM. RM/L

(AEK005) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 32.3010 IM.
 LBREF = 14.2445 IM. YMRP = .0000 IM.
 RBREF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .5500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLON = .000 BDFLAP = -11.700
 SFCBRK = 55.000 PUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

F.M. NO. 15/ 5 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.0

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
1.001	-1.465	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.56960	587.60000	.00040
1.001	-1.145	-0.07450	.00600	.00150	-0.0030	-0.0010	-0.0030	.81210	587.60000	.00050
1.001	1.507	-0.07450	.00600	.00150	-0.0030	-0.0010	-0.0030	.74100	587.60000	.00050
1.001	3.424	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.71750	587.60000	.00050
1.001	5.430	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.70510	587.60000	.00040
1.001	7.527	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.74490	587.60000	.00050
1.001	9.625	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.59990	587.60000	.00030
1.001	12.720	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.65960	587.60000	.00040
1.001	15.815	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.68830	587.60000	.00020
1.001	18.940	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.68440	587.60000	.00030
1.001	22.090	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.68050	587.60000	.00020
1.001	25.170	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.67750	587.60000	.00030
1.001	28.110	-0.1490	.00480	.00090	-0.0050	-0.0020	-0.0030	.67030	587.60000	.00020
GRADIENT								.10261	.00000	.00000

F.M. NO. 9/ 5 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCF/L	Q	CBLV
2.002	-1.476	-0.1890	.00850	.00060	.00020	.00190	-0.00240	.37880	560.40000	.00160
2.002	-1.202	-0.09450	.00790	.00100	.00000	.00450	-0.00210	1.04850	560.40000	.00140
2.002	1.341	-0.09450	.00790	.00100	.00000	.00450	-0.00170	.77760	560.40000	.00130
2.002	3.307	-0.1890	.00790	.00100	.00000	.00290	-0.00140	.72840	560.40000	.00100
2.002	5.446	-0.1890	.00790	.00100	.00000	.00260	-0.00130	.71230	560.40000	.00100
2.002	7.501	-0.1890	.00790	.00100	.00000	.00240	-0.00120	.70170	560.40000	.00090
2.002	9.552	-0.1890	.00790	.00100	.00000	.00230	-0.00110	.69370	560.40000	.00080
2.002	12.650	-0.1890	.00790	.00100	.00000	.00230	-0.00110	.68400	560.40000	.00070
2.002	15.750	-0.1890	.00790	.00100	.00000	.00230	-0.00110	.67830	560.40000	.00030
2.002	18.840	-0.1890	.00660	.00210	-0.00030	-0.00030	.00010	.67480	560.40000	-0.00010
2.002	21.940	-0.1890	.00550	.00230	-0.00000	.00150	.00060	.67280	560.40000	-0.00040
2.002	25.040	-0.11270	.00330	.00230	-0.00040	.00130	.00070	.67190	560.40000	-0.00050
2.002	28.070	-0.12540	.00290	.00140	.00040	-0.00150	.00100	.67010	560.40000	-0.00070
GRADIENT								.03818	.00000	-0.00012

ARC 97-747 QAS38 B C M F W I V MOM. RN/L

(AER004) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = 5.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 6/ 0 R/ L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFM0	CY	CYN	CBL	CYV	CYV	CYV	XCF/L	Q	CBLV
1.000	-1.504	-.04760	.00430	.00160	.00730	.00200	-.00090	.02210	592.00000	.00060	.00060
1.000	-1.198	-.03710	.00450	.00120	.00710	.00130	-.00060	1.07000	592.00000	.00050	.00050
1.000	1.366	-.02410	.00390	.00130	-.00720	.00200	-.00090	-.43810	592.00000	.00060	.00060
1.000	5.415	-.00980	.00330	.00070	.00700	.00060	-.00040	.60700	592.00000	.00040	.00040
1.000	5.468	-.00470	.00450	.00030	-.00690	.00090	-.00050	.64000	592.00000	.00040	.00040
1.000	7.589	-.01830	.00490	.00010	.00650	.00070	-.00040	.65280	592.00000	.00040	.00040
1.000	9.636	-.02780	.00490	-.00020	-.00710	.00020	-.00030	-.65680	592.00000	.00030	.00030
1.000	12.710	-.03820	.00550	-.00040	.00710	-.00120	.00020	.65790	592.00000	.00020	.00020
1.000	15.850	-.04990	.00530	-.00070	.00620	.00030	-.00030	-.65880	592.00000	.00020	.00020
GRADIENT		-.00772	-.00019	-.00016	-.00005	-.00022	.00008	-.07711	.00000	-.00000	-.00000

RUN NO. 5/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFM0	CY	CYN	CBL	CYV	CYV	CYV	XCF/L	Q	CBLV
2.002	-1.498	-.02400	.00680	.00190	.00530	.00350	-.00150	.73920	574.90000	.00110	.00110
2.002	-1.203	-.01760	.00740	.00150	.00550	.00370	-.00170	.84150	574.90000	.00120	.00120
2.002	1.323	.01040	.00650	.00150	.00550	.00300	-.00140	-.48020	574.90000	.00110	.00110
2.002	5.373	.00120	.00520	.00120	.00500	.00310	-.00140	.62870	574.90000	.00100	.00100
2.002	5.441	-.00830	.00600	.00120	.00500	.00220	-.00110	.64900	574.90000	.00080	.00080
2.002	7.483	-.01590	.00660	.00100	.00490	.00180	-.00090	.65480	574.90000	.00070	.00070
2.002	9.501	-.02070	.00620	.00070	.00500	.00150	-.00080	.65480	574.90000	.00060	.00060
2.002	12.650	-.02440	.00700	.00060	.00520	.00220	-.00090	.65210	574.90000	.00060	.00060
2.002	15.730	-.02940	.00670	.00050	.00520	-.00020	-.00010	.65110	574.90000	.00010	.00010
2.002	18.860	-.03500	.00620	.00030	.00500	.00070	-.00020	.65060	574.90000	-.00010	-.00010
2.002	21.930	-.04120	.00710	.00040	.00500	-.00130	.00050	.65060	574.90000	-.00040	-.00040
2.002	25.070	-.04910	.00590	.00060	.00600	-.00160	.00060	.65120	574.90000	-.00060	-.00060
2.002	28.990	-.05580	.00530	-.00100	.00600	-.00040	.00030	.65030	574.90000	-.00030	-.00030
GRADIENT		-.00467	-.00038	-.00013	-.00010	-.00012	.00004	-.04040	.00000	-.00000	-.00000

ARC 97-747 0A538 B C M F W L V MON. BN/L

(AER001) (18 MAR 74)

REFERENCE DATA

SREF = 2.4215 20.FT. YMRP = 32.3010 IN. BETA = .000 ELEVON = -10.000
 LBREF = 14.2440 IN. YMRP = .0000 IN. AIRLON = 5.000 BDFLAP = -11.700
 BRREF = 20.1004 IN. ZMRP = 11.2500 IN. SPSBRK = 55.000 RUDDER = .000
 SCALE = .0000 SCALE ELEV-L = -9.000 ELEV-R = -19.000

PARAMETRIC DATA

RUN NO. 6/ 0 BN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYMW	XCP/L	q	CBLV
1.000	-1.469	.0010	.00160	.00470	.00690	.00110	-.00060	.85100	591.00000	.00050
1.050	-1.191	.0020	.00280	.00430	.00690	.00130	-.00070	.96120	591.00000	.00050
1.050	1.353	.0050	.00390	.00390	.00680	.00100	-.00060	2.18950	591.00000	.00240
1.050	3.419	.0060	.0010	.00340	.00680	.00120	-.00060	.41270	591.00000	.00050
1.050	5.408	.0060	.0020	.00280	.00660	-.00010	-.00020	.16070	591.00000	.00050
1.050	7.395	.0070	.0010	.00240	.00660	.00010	-.00020	.63450	591.00000	.00020
1.050	9.616	.0070	.0020	.00230	.00650	.00030	-.00030	.82310	591.00000	.00020
1.050	12.720	.00340	.00430	.00190	.00640	-.00010	-.00020	.63520	591.00000	.00020
1.050	15.823	.00130	.00460	.00090	.00570	.00020	-.00030	.84030	591.00000	.00020
1.050	18.940	.0040	.0040	.0030	.00670	-.00010	-.00030	.64170	591.00000	-.00010
1.050	22.050	.00210	.0060	.00050	.00670	-.00010	.00040	.64190	591.00000	-.00020
1.050	25.170	.00260	.0060	.00050	.00670	-.00010	-.00040	.64190	591.00000	-.00020
1.050	29.090	.00100	.00780	-.00140	.00670	.00120	-.00050	.63600	591.00000	.00020
GRADIENT		-.00765	.00011	-.00027	-.00002	.00000	.00001	-.01994	.00000	-.00000

RUN NO. 7/ 0 BN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYMW	XCP/L	q	CBLV
2.002	-1.466	.03400	.01060	.00220	.00590	.00330	-.00170	.79000	572.00000	.00130
2.002	-1.206	.04770	.01060	.00200	.00570	.00320	-.00170	.86080	572.00000	.00130
2.002	1.337	.04010	.01050	.00250	.00530	.00410	-.00190	1.78400	572.00000	.00140
2.002	3.390	.02990	.00940	.00190	.00520	.00370	-.00170	.47550	572.00000	.00120
2.002	5.445	.02060	.00890	.00210	.00470	.0040	-.00190	.98220	572.00000	.00100
2.002	7.504	.01200	.00880	.00190	.00460	.00170	-.00190	.61330	572.00000	.00080
2.002	9.63	.00760	.00830	.00160	.00420	.00270	-.00190	.62360	572.00000	.00090
2.002	11.660	.00350	.00960	.00160	.00450	.00190	.00090	.62970	572.00000	.00050
2.002	13.730	-.00120	.00950	.00160	.00450	.00090	-.00040	.63350	572.00000	.00030
2.002	16.830	-.00520	.00890	.00200	.00430	-.00040	.00010	.63580	572.00000	-.00010
2.002	21.940	-.01030	.00820	.00210	.00440	-.00020	.00060	.63740	572.00000	-.00050
2.002	25.050	-.01540	.00730	.00210	.00420	-.00020	.00090	.63880	572.00000	-.00060
2.002	28.930	-.01790	.00700	.00080	.00400	-.00010	.00090	.63070	572.00000	-.00070
GRADIENT		-.00496	-.00029	-.00003	-.00013	.00012	-.00001	-.02538	.00000	-.00002

REFERENCE DATA

BREF = 2.4210 SQ.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. TMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

BETA = .000 ELEVOM = 7.300
 AIRCOM = -7.500 BDFLAP = -11.700
 SDBFX = 35.000 BUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

RUN NO. 18/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CLMFO	CY	CTM	CBL	C/V	CTMY	ICP/L	Q	CBLV
1.000	-1.481	.01630	.00770	.00830	-.01130	.00210	-.00100	.74650	588.80000	.00000
1.000	-.189	.00600	.00760	.00270	-.01120	.00240	-.00120	.20220	588.60000	.00590
1.000	1.580	-.00450	.00650	.00290	-.01130	.00190	-.00090	.65410	588.60000	.00370
1.000	3.423	-.01940	.00730	.00300	-.01090	.00190	-.00090	.67320	588.60000	.00560
1.000	3.489	-.03420	.00770	.00320	-.01040	.00240	-.00140	.67860	588.60000	.00340
1.000	7.564	-.04890	.00920	.00320	-.01010	.00160	-.00060	.68030	588.60000	.00270
1.000	9.821	-.05840	.00770	.00330	-.01030	.00100	-.00060	.67930	588.60000	.00560
1.000	22.720	-.07130	.00820	.00370	-.01130	.00070	-.00050	.67690	588.60000	.00000
1.000	15.830	-.06480	.00810	.00430	-.01160	.00160	-.00080	.67420	588.60000	.00390
1.000	18.940	-.09340	.00670	.00410	-.01160	.00140	-.00060	.67210	588.60000	.00000
1.000	22.050	-.10100	.00600	.00290	-.01220	.00130	-.00020	.66800	588.60000	.00310
1.000	25.170	-.10600	.00590	.00250	-.01310	.00270	.00040	.66590	588.60000	-.00040
1.000	29.130	-.09710	.00620	.00370	-.01340	.00170	.00040	.66320	588.60000	-.00000
GRADIENT			-.00028	.00010	.00007	-.00007	.00004	.00000	.00000	-.00000

RUN NO. 11/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

RMCH	ALPHA	CLMFO	CY	CTM	CBL	CTV	CTMY	ICP/L	Q	CBLV
2.002	-1.480	.00210	.00930	.00260	-.00780	.00300	-.00180	.64630	565.80000	.00130
2.002	-.802	-.00350	.00790	.00280	-.00770	.00380	-.00180	.48130	565.80000	.00120
2.002	1.338	-.01140	.00760	.00310	-.00800	.00370	-.00170	.71210	565.80000	.00100
2.002	3.391	-.02110	.00670	.00370	-.00790	.00350	-.00160	.89020	565.80000	.00120
2.002	5.447	-.03030	.00670	.00410	-.00820	.00290	-.00120	.68510	565.80000	.00090
2.002	7.493	-.03790	.00590	.00420	-.00840	.00230	-.00100	.68070	565.80000	.00080
2.002	9.556	-.04350	.00570	.00440	-.00820	.00220	-.00070	.67990	565.80000	.00050
2.002	12.890	-.04870	.00670	.00470	-.00860	.00210	-.00070	.66930	565.80000	.00000
2.002	15.750	-.05930	.00570	.00510	-.00930	.00200	-.00040	.66340	565.80000	.00000
2.002	18.890	-.06240	.00550	.00630	-.00980	-.00010	.00000	.66300	565.80000	.00000
2.002	21.940	-.07090	.00480	.00680	-.01070	-.00140	.00000	.66200	565.80000	-.00000
2.002	25.040	-.08000	.00400	.00710	-.01140	-.00130	.00000	.66100	565.80000	-.00000
2.002	28.990	-.08770	.00310	.00710	-.01240	-.00160	.00000	.65990	565.80000	-.00000
GRADIENT			-.00053	.00023	-.00007	-.00006	.00004	.00000	.00000	-.00000

ARC 97-747 0A338 8 C M F W1 Y HIGH RW/L (AEK007) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .300 ELEVOM = 15.000
 AILROM = .000 SDFLAP = 16.000
 SPDPRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 147 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
1.601	-1.508	-0.4110	.00410	.00060	.00060	.00120	-.00070	1.79000	927.20000	.00050
1.601	-1.197	-.05050	.00480	.00060	.00020	.00150	-.00090	.88830	927.20000	.00060
1.601	1.398	-.05350	.00500	.00060	.00010	.00160	-.00080	.78980	927.20000	.00060
1.601	3.488	-.05350	.00550	.00030	.00030	.00060	-.00050	.73150	927.20000	.00050
1.601	5.595	-.09850	.00570	.00020	.00020	.00030	-.00040	.73590	927.20000	.00040
1.601	7.704	-.11510	.00470	.00000	.00030	.00050	-.00040	.72850	927.20000	.00030
1.601	9.810	-.13070	.00490	-.00010	.00070	.00030	-.00030	.71990	927.20000	.00030
1.601	12.990	-.14800	.00530	-.00030	.00110	.00000	-.00020	.71540	927.20000	.00020
1.601	15.160	-.16410	.00560	-.00040	.00150	-.00040	.00000	.70350	927.20000	.00010
1.601	19.340	-.17520	.00620	-.00060	.00190	-.00090	.00020	.68690	927.20000	-.00010
1.601	22.530	-.18520	.00600	-.00010	.00190	-.00170	.00050	.69170	927.20000	-.00020
1.601	25.760	-.19360	.00540	-.00030	.00200	-.00100	.00050	.68700	927.20000	-.00030
1.601	29.730	-.19940	.00760	-.00180	.00260	-.00020	-.00010	.67990	927.20000	.00000
GRADIENT		-.00789	.00002	-.00006	-.00005	-.00012	.00005	-.18013	.00000	-.00000

RUN NO. 137 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
2.002	-1.510	-.04010	.00720	-.00070	.00110	.00300	-.00160	-1.19000	865.30000	.00110
2.002	-.216	-.04620	.00750	-.00060	.00090	.00310	-.00160	1.54400	865.30000	.00120
2.002	1.332	-.05440	.00720	-.00060	.00080	.00350	-.00170	.82940	865.30000	.00120
2.002	3.407	-.06580	.00770	-.00060	.00080	.00250	-.00130	.76370	865.30000	.00100
2.002	5.523	-.07740	.00680	-.00060	.00080	.00240	-.00130	.73940	865.30000	.00090
2.002	7.601	-.08750	.00590	-.00060	.00080	.00150	-.00100	.72470	865.30000	.00080
2.002	9.691	-.09460	.00730	-.00070	.00130	.00190	-.00100	.71340	865.30000	.00080
2.002	12.840	-.10430	.00770	-.00090	.00160	.00180	-.00100	.70110	865.30000	.00070
2.002	16.010	-.11560	.00730	-.00100	.00190	.00050	-.00040	.69380	865.30000	.00040
2.002	19.170	-.12860	.00690	-.00080	.00220	.00000	-.00020	.68920	865.30000	.00020
2.002	22.330	-.14150	.00680	-.00070	.00230	.00000	-.00010	.68600	865.30000	.00000
2.002	25.500	-.15620	.00690	-.00100	.00280	-.00050	.00020	.68440	865.30000	.00000
2.002	29.500	-.17650	.00480	-.00180	.00300	-.00010	.00010	.68220	865.30000	-.00010
GRADIENT		-.00523	.00008	.00002	-.00006	-.00008	.00005	.31146	.00000	-.00002

REFERENCE DATA

REF = 2.4210 98.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0960 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLROM = .000 BDFLAP = 16.300
 SPDGRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 18/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
1.600	-1.484	-.04270	.00580	.00060	.00040	.00030	-.00040	1.71000	601.10000	.00050
1.600	-1.198	-.03370	.00620	.00040	.00040	.00140	-.00080	.88710	601.10000	.00060
1.600	1.360	-.06500	.00530	.00060	-.00010	.00000	-.00030	.79360	601.10000	.00040
1.600	3.408	-.08150	.00730	.00030	-.00030	.00020	-.00040	.75450	601.10000	.00040
1.600	5.472	-.09920	.00720	.00020	-.00000	-.00030	-.00020	.73760	601.10000	.00030
1.600	7.572	-.11610	.00770	.00020	.00080	.00130	-.00060	.72820	601.10000	.00050
1.600	9.628	-.12950	.00700	.00000	.00020	.00160	-.00080	.72060	601.10000	.00050
1.600	12.720	-.14610	.00800	-.00040	.00070	.00140	-.00070	.71160	601.10000	.00040
1.600	15.860	-.16510	.00750	-.00030	.00140	.00120	-.00050	.70310	601.10000	.00040
1.600	18.970	-.17800	.00790	-.00030	.00150	.00000	-.00020	.69890	601.10000	.00020
1.600	22.080	-.18920	.00760	.00000	.00100	-.00050	.00010	.69400	601.10000	.00000
1.600	25.230	-.19840	.00740	.00050	.00140	-.00190	.00060	.68930	601.10000	-.00030
1.600	29.140	-.19440	.00560	-.00060	.00150	-.00060	.00020	.68170	601.10000	-.00020
	GRADIENT	-.00786	.00025	-.00004	-.00016	-.00011	.00003	-.16967	.00000	-.00003

RUN NO. 17/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
2.002	-1.490	-.03970	.00900	-.00110	.00110	.00950	-.00220	-1.23500	585.40000	.00150
2.002	-1.205	-.04650	.00930	-.00110	.00110	.00440	-.00210	1.03900	585.40000	.00140
2.002	1.330	-.05490	.01010	-.00110	.00090	.00420	-.00200	.82790	585.40000	.00140
2.002	3.389	-.06660	.00970	-.00120	.00070	.00470	-.00210	.76460	585.40000	.00140
2.002	5.440	-.07870	.01040	-.00130	.00120	.00320	-.00160	.74100	585.40000	.00120
2.002	7.489	-.08790	.00970	-.00130	.00110	.00390	-.00180	.72630	585.40000	.00120
2.002	9.538	-.09610	.01020	-.00120	.00160	.00410	-.00180	.71530	585.40000	.00120
2.002	12.680	-.10560	.00940	-.00130	.00150	.00370	-.00170	.70260	585.40000	.00110
2.002	15.750	-.11800	.01010	-.00120	.00190	.00340	-.00150	.69540	585.40000	.00090
2.002	18.860	-.13120	.00890	-.00070	.00180	.00160	-.00070	.69070	585.40000	.00050
2.002	21.970	-.14480	.00780	-.00010	.00170	-.00050	.00010	.68770	585.40000	.00000
2.002	25.070	-.16120	.00670	.00020	.00140	-.00150	.00060	.68600	585.40000	-.00030
2.002	28.170	-.18140	.00100	.00130	.00190	-.00270	.00120	.68410	585.40000	-.00070
	GRADIENT	-.00552	.00017	-.00002	-.00009	-.00008	.00002	.32223	.00000	-.00002

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 32.5010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 AIRLON = .000 BDFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 19/ 0 RN/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	θ	CBLV
1.600	-1.480	-0.4469	.09149	.00130	-.00030	.00210	-.00090	1.55900	288.60000	.00040	
1.600	-.195	-.05390	.00110	.00100	.00010	.00100	-.00080	.89740	288.60000	.00050	
1.600	1.324	-1.5660	.09170	-.00110	-.00020	.00200	-.00080	.79840	288.60000	.00050	
1.600	3.356	-.08370	.00250	.00090	-.00060	.00350	-.00120	.75880	288.60000	.00070	
1.600	5.395	-.03930	.00360	.00080	-.00030	.00230	-.00090	.74070	288.60000	.00060	
1.600	7.451	-.11150	.00370	.00060	-.00030	.00230	-.00080	.73020	288.60000	.00050	
1.600	9.444	-.15980	.00470	.00040	-.00060	.00120	-.00060	.72350	288.60000	.00030	
1.600	12.480	-.15020	.00360	.00050	.00010	.00360	-.00120	.71470	288.60000	.00050	
1.600	15.540	-.16800	.00360	.00050	.00020	.00150	-.00050	.70760	288.60000	.00040	
1.600	18.600	-.18220	.00480	.00030	.00020	.00210	-.00070	.70140	288.60000	.00040	
1.600	21.640	-.19420	.00540	.00050	.00010	.00070	-.00030	.69650	288.60000	.00010	
1.600	24.690	-.20380	.00480	.00050	.00030	.00130	-.00040	.69170	288.60000	.00020	
1.600	28.370	-.20300	.00500	.00030	.00050	.00220	-.00040	.68440	288.60000	.00010	
1.600	GRADIENT	-.00816	.00026	-.00007	-.00009	.00030	-.00006	-.14186	.00000	.00006	

RUN NO. 20/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	θ	CBLV
2.002	-1.456	-.03950	.00150	.00010	.00000	.00590	-.00160	-2.60900	199.20000	.00080	
2.002	-.201	-.04580	.00060	.00020	.00020	.00510	-.00170	.97050	199.20000	.00070	
2.002	1.315	-.05450	-.00100	.00010	-.00030	.00530	-.00160	.81880	199.20000	.00070	
2.002	3.338	-.06640	.00030	-.00010	-.00010	.00540	-.00170	.76150	199.20000	.00070	
2.002	5.347	-.07770	.00090	-.00010	-.00040	.00290	-.00110	.74150	199.20000	.00060	
2.002	7.371	-.08620	.00040	-.00010	-.00040	.00540	-.00170	.72920	199.20000	.00070	
2.002	9.392	-.09390	.00130	-.00030	-.00010	.00180	-.00050	.71410	199.20000	.00020	
2.002	12.410	-.10560	.00070	-.00030	-.00030	.00380	-.00110	.70360	199.20000	.00030	
2.002	15.450	-.11810	.00170	-.00070	.00030	.00600	-.00180	.69650	199.20000	.00070	
2.002	18.480	-.13320	.00340	-.00110	.00030	.00560	-.00170	.69270	199.20000	.00060	
2.002	21.500	-.14820	.00210	-.00120	.00020	.00510	-.00160	.69030	199.20000	.00060	
2.002	24.540	-.16620	.00280	-.00140	.00010	.00530	-.00160	.68890	199.20000	.00060	
2.002	28.370	-.18870	.00220	-.00050	.00040	.00670	-.00220	.68740	199.20000	.00100	
2.002	GRADIENT	-.00964	.00023	-.00003	-.00003	-.00007	-.00001	-.56825	.00000	-.00002	

ARC 97-747 04338 B C M F M1 V NOM. RN/L

(AEK010) (12 MAR 74)

REFERENCE DATA

MREF = 2.4210 98.FT. XMRP = 32.3010 IN.
 LBREF = 14.2440 IN. YMRP = .0050 IN.
 PRF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 8DFLAP = 16.300
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 22/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.539	.02320	.00590	.00060	-.00030	.00180	-.00100	.75910	590.10000	.00080
1.600	-.199	.01360	.00490	.00070	-.00020	.00180	-.00090	1.11000	590.10000	.00060
1.600	1.343	.00120	.00450	.00040	-.00040	.00120	-.00070	.62590	590.10000	.00050
1.600	3.407	-.01540	.00570	.00070	-.00020	.00220	-.00100	.66020	590.10000	.00070
1.600	3.519	-.03320	.00600	.00070	-.00030	.00060	-.00050	.67920	590.10000	.00040
1.600	7.542	-.05000	.00600	.00050	-.00000	.00050	-.00040	.68380	590.10000	.00040
1.600	9.609	-.05940	.00650	.00040	-.00030	-.00030	-.00020	.68140	590.10000	.00030
1.600	12.710	-.07480	.00650	.00020	-.00010	.00030	-.00040	.67930	590.10000	.00030
1.600	15.790	-.08840	.00690	.00040	.00060	.00050	-.00040	.67700	590.10000	.00030
1.600	18.930	-.09800	.00560	.00070	.00100	-.00090	-.00010	.67370	590.10000	.00030
1.600	22.100	-.10600	.00470	.00080	.00100	-.00170	.00040	.67070	590.10000	-.00010
1.600	25.110	-.11070	.00520	.00110	.00080	-.00290	.00090	.66770	590.10000	-.00050
1.600	29.040	-.09960	.00490	.00050	.00150	-.00160	.00040	.66550	590.10000	-.00040
GRADIENT		-.00818	-.00003	.00002	.00001	.00005	.00001	-.04811	.00000	-.00002

RUN NO. 21/ 0 RN/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.534	.00710	.00460	.00120	.00020	.00350	-.00150	.67030	563.00000	.00100
2.002	-.200	.00010	.00430	.00110	.00020	.00350	-.00150	.63540	563.00000	.00100
2.002	1.333	-.00820	.00350	.00110	.00020	.00270	-.00120	.70250	563.00000	.00090
2.002	3.380	-.01890	.00380	.00120	-.00010	.00120	-.00080	.68940	563.00000	.00060
2.002	3.491	-.03030	.00360	.00120	-.00020	.00200	-.00100	.68680	563.00000	.00070
2.002	7.473	-.03920	.00430	.00130	-.00020	.00210	-.00100	.68380	563.00000	.00070
2.002	9.559	-.04380	.00450	.00120	-.00020	.00180	-.00090	.67920	563.00000	.00060
2.002	12.610	-.05330	.00520	.00120	-.00010	.00100	-.00050	.67310	563.00000	.00040
2.002	15.730	-.06070	.00530	.00130	-.00010	.00020	-.00020	.66910	563.00000	.00020
2.002	18.820	-.06830	.00500	.00140	-.00020	.00040	-.00010	.66650	563.00000	.00030
2.002	21.920	-.07750	.00500	.00150	.00000	-.00070	.00030	.66530	563.00000	-.00030
2.002	25.020	-.08830	.00390	.00110	.00000	-.00010	.00030	.66470	563.00000	-.00030
2.002	28.900	-.09750	.00410	.00060	.00030	-.00040	.00040	.66310	563.00000	-.00040
GRADIENT		-.00320	-.00018	.00000	-.00006	-.00049	.00015	.00760	-.00000	-.00000

AR: 0--747 04538 B C M F W I V MO. R I/L

(AEK011) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 27/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	Q	CBLV
1.600	-1.489	.04930	.00760	.00060	-.00020	.00130	-.00080	-.00080	.00240	590.10000	.00070
1.600	-1.183	.03840	.00720	.00070	-.00040	.00130	-.00080	-.00080	1.05600	590.10000	.00070
1.600	1.364	.02680	.00680	.00080	-.00040	.00070	-.00060	-.00060	.38750	590.10000	.00060
1.600	3.430	.01550	.00580	.00090	-.00030	.00140	-.00080	-.00080	.60210	590.10000	.00060
1.600	5.507	-.00410	.00710	.00080	-.00010	.00130	-.00080	-.00080	.63920	590.10000	.00060
1.600	7.559	-.01860	.00680	.00080	.00010	.00150	-.00080	-.00080	.65320	590.10000	.00060
1.600	9.642	-.02560	.00660	.00050	.00010	.00170	-.00090	-.00090	.65510	590.10000	.00060
1.600	12.723	-.03750	.00760	.00030	.00000	.00110	-.00060	-.00060	.65760	590.10000	.00040
1.600	15.850	-.04910	.00690	.00070	.00060	.00070	-.00060	-.00060	.65850	590.10000	.00040
1.600	17.910	-.05480	.00590	.00090	.00090	-.00050	-.00020	-.00020	.65810	590.10000	.00020
1.600	18.940	-.05720	.00630	.00100	.00090	-.00260	.00050	.00050	.65760	590.10000	-.00020
1.600	22.080	-.06040	.00570	.00120	.00090	-.00190	.00040	.00040	.65830	590.10000	-.00020
1.600	25.180	-.06110	.00570	.00200	.00100	-.00370	.00020	.00020	.65270	590.10000	-.00070
1.600	29.120	-.04880	.00550	.00070	.00140	-.00080	.00030	.00030	.64680	590.10000	-.00030
GRADIENT		-.00758	-.00036	.00006	-.00001	-.00001	.00001	.00001	-.07906	.00000	-.00002

RUN NO. 23/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	Q	CBLV
2.002	-1.483	.02530	.00770	.00100	.00000	.00370	-.00170	-.00170	.74030	562.70000	.00110
2.002	-1.185	.01920	.00700	.00080	.00010	.00400	-.00180	-.00180	.81970	562.70000	.00120
2.002	1.376	.01110	.00640	.00090	.00000	.00360	-.00160	-.00160	.47650	562.70000	.00110
2.002	3.373	.00220	.00560	.00110	-.00020	.00290	-.00140	-.00140	.62500	562.70000	.00100
2.002	5.444	-.00750	.00630	.00120	-.00010	.00250	-.00120	-.00120	.64780	562.70000	.00090
2.002	7.480	-.01470	.00620	.00140	-.00020	.00150	-.00090	-.00090	.65340	562.70000	.00070
2.002	9.550	-.01920	.00630	.00140	-.00010	.00130	-.00080	-.00080	.65360	562.70000	.00060
2.002	12.620	-.02410	.00650	.00160	.00000	.00160	-.00080	-.00080	.65200	562.70000	.00050
2.002	15.700	-.02880	.00650	.00170	-.00030	.00130	-.00050	-.00050	.65080	562.70000	.00030
2.002	18.870	-.03400	.00600	.00210	.00000	-.00030	.00010	.00010	.65020	562.70000	-.00010
2.002	21.940	-.03950	.00450	.00200	-.00030	-.00120	.00030	.00030	.64990	562.70000	-.00040
2.002	25.040	-.04670	.00440	.00180	-.00070	-.00070	.00050	.00050	.65030	562.70000	-.00050
2.002	28.930	-.05030	.00330	.00120	.00020	.00010	.00030	.00030	.64890	562.70000	-.00040
GRADIENT		-.00479	-.00043	.00003	-.00005	-.00019	.00007	.00007	-.04080	-.00000	-.00003

ARC 97-747 04338 B C M F W I V MOM. RM/L

(AEK012) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 80-FT.
 LREF = 14.2440 IN.
 BREF = 24.1034 IN.
 SCALE = .0390 SCALE

ALPHA = .000 ELEVON = .000
 AIRLON = .000 ROFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 26/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.185	.03430	.09970	-.00490	.00410	.04360	-.02010	1.04100	595.70000		.01360
1.600	-3.082	.03690	.06090	-.00200	.00239	.02700	-.01230	1.04900	595.70000		.00840
1.600	-1.934	.03660	.02520	.00010	-.00060	.01020	-.00470	1.05800	595.70000		.00320
1.600	-.913	.03820	.00780	.00100	-.00010	.00170	-.00100	1.06900	595.70000		.00280
1.600	1.015	.03880	-.01010	.00160	-.00110	-.00670	.00290	1.07300	595.70000		-.00120
1.600	3.071	.03860	-.04600	.00280	-.00280	-.02240	.00990	1.10300	595.70000		-.00670
1.600	5.132	.03750	-.08380	.00400	-.00430	-.03750	.01710	1.13800	595.70000		-.01150
1.600	5.772	.03690	-.09560	.00390	-.00320	-.04380	.01990	1.14900	595.70000		-.01320
	GRADIENT	.00026	-.01736	.00078	-.00083	-.00805	.00362		-.00863	-.00000	-.00245

RUN NO. 24/ 0 RM/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.555	.01350	.10140	-.00110	.00390	.04410	-.02020	.78430	563.70000		.01350
2.002	-3.471	.01680	.06090	.00050	.00240	.02740	-.01240	.80840	563.70000		.00840
2.002	-1.456	.01910	.02440	.00110	.00060	.01100	-.00510	.82650	563.70000		.00340
2.002	-.369	.01910	.00500	.00130	.00010	.00300	-.00140	.82700	563.70000		.00090
2.002	.640	.01960	-.01360	.00170	-.00079	-.00590	.00260	.83720	563.70000		-.00160
2.002	2.719	.01850	-.05200	.00280	-.00263	-.02240	.01000	.83470	563.70000		-.00670
2.002	4.752	.01630	-.09030	.00470	-.00460	-.03860	.01760	.83980	563.70000		-.01160
2.002	5.954	.01440	-.11320	.00570	-.00570	-.04800	.02220	.82840	563.70000		-.01440
	GRADIENT	-.00010	-.01839	.00050	-.00085	-.00805	.00365		.00341	.00000	-.00243

ARC 97-747 04538 B C M F W V NOM. RM/L

(AEK013) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1994 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 29/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.046	-0.03150	-0.06900	.00100	.00710	.03090	-.01500	.65840	595.10000	.01530
1.600	-3.016	-.02770	.05390	.00100	.00310	.01770	-.00880	.65570	595.10000	.00610
1.600	-.996	-.02810	.02210	.00110	.00050	.00690	-.00350	.65600	595.10000	.00210
1.600	.024	-.02860	.00750	.00080	.00000	.00070	-.00050	.65650	595.10000	.00040
1.600	1.038	-.02810	-.00750	.00070	-.00060	-.00660	.00270	.65600	595.10000	-.00110
1.600	3.062	-.02670	-.03850	.00010	-.00290	-.01680	.00790	.65480	595.10000	-.00320
1.600	5.104	-.02850	-.07030	-.00130	-.00670	-.02980	.01400	.65600	595.10000	-.00920
1.600	6.927	-.02780	-.10140	-.00220	-.00990	-.04000	.01970	.65550	595.10000	-.01280
	GRADIENT	.00015	-.01514	-.00015	-.00094	-.00577	.00278	-.00013	-.00000	-.00167

RUN NO. 25/ 0 RM/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.428	-.02090	.08770	.00460	.00900	-.00430	-.00330	.65390	562.70000	.00640
2.002	-3.393	-.01970	.05440	.00330	.00270	.00040	-.00310	.65290	562.70000	.00440
2.002	-1.343	-.02020	.02100	.00250	.00060	.00400	-.00240	.65340	562.70000	.00200
2.002	-.343	-.02030	.00850	.00160	.00020	.00120	-.00060	.65360	562.70000	.00050
2.002	.659	-.01990	-.01020	.00080	-.00120	-.00460	.00210	.65320	562.70000	-.00130
2.002	2.693	-.01940	-.04360	.00020	-.00340	-.01770	.00840	.55270	562.70000	-.00540
2.002	4.728	-.02010	-.07650	-.00010	-.00620	-.02910	.01390	.65310	562.70000	-.00920
2.002	6.769	-.02200	-.11260	.00000	-.00970	-.04240	.02000	.65500	562.70000	-.01310
2.002	8.801	-.02350	-.14490	-.00210	-.01220	-.04890	.02370	.65620	562.70000	-.01570
	GRADIENT	.00001	-.01608	-.00044	-.00108	-.00411	.00225	-.00003	.00000	-.00172

REFERENCE DATA

SREF = 2.4210 80.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

RUN NO. 30/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.047	-0.55160	.07270	.01370	.00940	-.00770	-.00000	.00000	.65640	595.40000	-.00150
1.600	-2.987	-0.50600	.04580	.00880	.00350	-.00600	.00010	.00010	.65640	595.40000	.00090
1.600	-.945	-0.50880	.01890	.00340	.00180	-.00250	-.00020	-.00020	.65650	595.40000	.00040
1.600	.080	-0.50850	.00520	.00120	.00060	-.00150	.00030	.00030	.65650	595.40000	-.00020
1.600	1.086	-0.50930	-.00820	-.00120	-.00060	-.00120	.00100	.00100	.65660	595.40000	-.00070
1.600	3.127	-0.50840	-.03440	-.00660	-.00260	.00140	.00140	.00140	.65620	595.40000	-.00140
1.600	5.168	-0.50590	-.06040	-.01370	-.00490	.00490	.00090	.00090	.65360	595.40000	-.00160
1.600	7.218	-0.50650	-.09010	-.01940	-.00770	.00590	.00120	.00120	.65360	595.40000	-.00220
1.600	9.271	-0.50870	-.12880	-.02240	-.01110	-.00060	.00420	.00420	.65650	595.40000	-.00400
	GRADIENT	.00001	-.01314	-.00249	-.00102	.00115	.00025	-.00002	-.00000	-.00000	-.00039

RUN NO. 26/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.423	-0.39970	.07190	.01830	.00990	-.01260	.00280	.00280	.65140	580.90000	-.00020
2.002	-3.363	-0.37400	.04190	.01190	.00310	-.01110	.00290	.00290	.65030	580.90000	-.00060
2.002	-1.328	-0.36990	.01760	.00330	.00080	-.00470	.00130	.00130	.65010	580.90000	-.00040
2.002	-.324	-0.36650	.00560	.00200	-.00020	-.00140	.00050	.00050	.65000	580.90000	-.00030
2.002	.700	-0.36300	-.00610	-.00130	-.00040	.00040	.00010	.00010	.64980	580.90000	-.00030
2.002	2.741	-0.36000	-.03030	-.00740	-.00360	.00360	-.00090	-.00090	.65060	580.90000	-.00020
2.002	3.772	-0.38900	-.04180	-.01060	-.00490	.00880	-.00170	-.00170	.65100	580.90000	-.00010
2.002	6.634	-0.44600	-.08990	-.01530	-.01100	.00300	.00150	.00150	.65360	580.90000	-.00250
2.002	8.879	-0.46900	-.12840	-.01670	-.01580	-.00620	.00590	.00590	.65470	580.90000	-.00310
	GRADIENT	-.00022	-.01174	-.00315	-.00111	.00271	-.00061	-.00010	-.00000	-.00000	-.00006

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRCRM = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

REFERENCE DATA

SREF = 2.4210 SQ-FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .005
 AIRLON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 36/ 0 RM/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYVH	XCP/L	θ	CBLV
1.601	-1.515	-.04460	-.00160	.00140	-.00070	-.00080	.00010	.80600	254.90000	-.00030
1.601	-1.188	-.03330	-.00230	.00150	-.00060	.00190	-.00070	1.04300	274.90000	.00020
1.601	1.331	-.02130	-.00250	.00120	-.00080	.00070	-.00030	.44500	254.90000	.00010
1.601	3.349	.00380	-.00400	.00140	-.00110	.00190	-.00060	.61720	254.90000	.00030
1.601	5.377	-.00890	-.00280	.00130	-.00100	.00160	-.00050	.64700	254.90000	.00020
1.601	7.398	-.02020	-.00250	.00120	-.00070	.00120	-.00040	.65590	254.90000	.00010
1.601	9.420	-.03330	-.00150	.00110	-.00070	.00290	-.00100	.66210	254.90000	.00040
1.601	12.470	-.04790	-.00040	.00080	-.00060	.00160	-.00050	.66470	254.90000	.00010
1.601	15.510	-.06080	-.00040	.00080	-.00030	.00260	-.00090	.66500	254.90000	.00020
1.601	18.560	-.06890	-.00060	.00060	.00000	.00170	-.00060	.66320	254.90000	.00010
1.601	21.610	-.07670	-.00180	.00070	.00000	.00170	-.00060	.66160	254.90000	.00010
1.601	24.650	-.08180	-.00120	.00040	.00020	.00170	-.00050	.65970	254.90000	.00050
1.601	26.460	-.07010	-.00170	.00060	.00020	.00180	-.00020	.65310	254.90000	-.00020
	GRADIENT	-.00795	-.00047	-.00002	-.00013	.00041	-.00010	-.07091	.00000	.00010

RUN NO. 35/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYVH	XCP/L	θ	CBLV
2.002	-1.521	-.02210	-.00240	-.00010	-.00010	.00170	-.00060	.72380	201.50000	.00040
2.002	-.198	.01350	-.00100	-.00060	.00030	.00610	-.00210	.78120	201.50000	.00110
2.002	1.315	.00870	-.00210	-.00030	.00010	.00120	-.00060	.48010	201.50000	.00050
2.002	3.334	-.00120	-.00410	-.00030	.00000	.00650	-.00230	.63700	201.50000	.00140
2.002	5.351	-.01000	-.00180	-.00040	.00000	.00190	-.00080	.65320	201.50000	.00050
2.002	7.374	-.01770	-.00360	-.00030	.00010	.00060	-.00030	.65820	201.50000	.00030
2.002	9.406	-.02340	-.00210	-.00010	.00010	-.00190	.00050	.65850	201.50000	-.00040
2.002	12.420	-.02830	-.00360	-.00040	.00000	.00230	-.00070	.65570	201.50000	.00040
2.002	15.440	-.03560	-.00130	-.00040	.00040	.00240	-.00090	.65540	201.50000	.00040
2.002	18.480	-.04390	-.00190	-.00040	.00030	.00310	-.00110	.65560	201.50000	.00050
2.002	21.510	-.05330	-.00100	-.00070	.00040	.00300	-.00100	.65610	201.50000	.00030
2.002	24.540	-.06260	-.00060	-.00150	.00070	.00270	-.00090	.65650	201.50000	.00030
2.002	26.330	-.07120	.00130	-.00160	.00040	.00170	-.00070	.65890	201.50000	.00020
	GRADIENT	-.00477	-.00043	-.00001	.00000	.00062	-.00023	-.03227	.00000	.00013

REFERENCE DATA

SREF = 2.4210 80-FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 PRCP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AILRON = .000 BDFLAP = .000
 SPCBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CVV	CYV	CYV	XCF/L	Q	CBLV
1.600	-1.486	.04250	.00210	.00100	-.00040	.00070	-.00050	-.00050	.00370	602.30000	.00030
1.600	-.216	.03290	.00160	.00100	-.00040	-.00250	.00060	.00060	1.00000	602.30000	-.00010
1.600	1.387	.01990	.00160	.00100	-.00070	.00000	-.00020	-.00020	.47040	602.30000	.00030
1.600	5.441	.00430	.00160	.00090	-.00070	.00000	-.00020	-.00020	.62150	602.30000	.00030
1.600	5.505	-.01140	.00200	.00070	-.00070	.00120	-.00050	-.00050	.65020	602.30000	.00040
1.600	7.543	-.02660	.00290	.00070	-.00020	-.00110	.00010	.00010	.66180	602.30000	.00050
1.600	9.645	-.03510	.00310	.00070	-.00050	-.00030	.00000	.00000	.65300	602.30000	.00010
1.600	12.720	-.04790	.00260	.00040	-.00010	-.00090	.00010	.00010	.66380	602.30000	.00050
1.600	15.820	-.05930	.00330	.00030	.00020	.00100	-.00050	-.00050	.66350	602.30000	.00030
1.600	18.980	-.06850	.00330	.00040	.00060	.00020	-.00020	-.00020	.66210	602.30000	.00010
1.600	22.060	-.07320	.00260	.00060	.00100	-.00110	.00020	.00020	.65980	602.30000	-.00010
1.600	25.190	-.07840	.00160	.00090	.00070	-.00010	-.00070	-.00070	.65800	602.30000	-.00040
1.600	28.120	-.06540	.00220	-.00050	.00150	.00030	-.00020	-.00020	.65130	602.30000	.00000
	GRADIENT	-.00779	-.00004	-.00002	-.00007	.00007	-.00001	-.00001	-.006568	.00000	.00003

RUN NO. 34/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLD	CY	CYN	CBL	CVV	CVV	CVV	XCF/L	Q	CBLV
2.002	-1.549	.02220	.00820	-.00100	.00050	.00480	-.00220	-.00220	.72550	589.40000	.00160
2.002	-.206	.01540	.00790	-.00120	.00050	.00430	-.00210	-.00210	.79640	589.40000	.00150
2.002	1.350	.00750	.00860	-.00110	.00070	.00360	-.00190	-.00190	.52320	589.40000	.00130
2.002	3.595	-.00330	.00770	-.00090	.00080	.00320	-.00170	-.00170	.64410	589.40000	.00130
2.002	5.472	-.01320	.00720	-.00080	.00070	.00370	-.00180	-.00180	.63850	589.40000	.00130
2.002	7.503	-.02100	.00760	-.00080	.00080	.00310	-.00170	-.00170	.66190	589.40000	.00120
2.002	9.567	-.02670	.00780	-.00060	.00110	.00300	-.00160	-.00160	.66120	589.40000	.00110
2.002	12.660	-.03250	.00780	-.00050	.00100	.00190	-.00110	-.00110	.65830	589.40000	.00080
2.002	15.760	-.03880	.00780	-.00010	.00090	.00170	-.00090	-.00090	.65560	589.40000	.00070
2.002	18.870	-.04540	.00620	.00030	.00090	.00030	-.00030	-.00030	.65560	589.40000	.00030
2.002	21.970	-.05260	.00460	.00100	.00070	-.00140	.00040	.00040	.65520	589.40000	-.00010
2.002	25.080	-.06070	.00380	.00120	.00060	-.00240	.00100	.00100	.65510	589.40000	-.00050
2.002	28.980	-.06630	.00120	.00100	.00080	-.00440	.00180	.00180	.63360	589.40000	-.00100
	GRADIENT	-.00516	-.00009	.00003	.00007	-.00003	.00010	.00010	-.02071	.00000	-.00006



ARC 97-747 0433B B C M F W1 V HIGH RW/L

(AER017) (12 MAR 74)

REFERENCE DATA

BREF = 2.5210 98-FT. YMRP = 32.3010 IN.
 LREF = 14.2460 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. YMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = .000
 SPDBRK = 51.000 RUDDER = .000
 CLEV-L = .000 ELEV-R = .000

RUN NO. 32/ 0 RW/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLC	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.508	-0.4150	.09490	.00070	-.00040	.00180	-.00090	.80330	921.00000	.00060	
1.600	-1.172	-0.3080	.09510	.00080	-.00020	.00000	-.00020	1.07000	921.00000	.00030	
1.600	1.393	-0.1920	.00350	.00090	-.00060	.00000	-.00020	.48350	921.00000	.00030	
1.600	3.483	-0.0400	.00430	.00070	-.00060	.00170	-.00080	.62260	921.00000	.00050	
1.600	5.578	-0.1180	.00470	.00070	-.00080	.00090	-.00050	.65040	921.00000	.00040	
1.600	7.738	-0.2700	.00440	.00060	-.00030	.00140	-.00070	.66120	921.00000	.00050	
1.600	9.815	-0.5380	.00440	.00050	.00030	.00040	-.00030	.66480	921.00000	.00030	
1.600	13.020	-0.9360	.00360	.00060	.00010	.00010	-.00030	.66620	921.00000	.00020	
1.600	16.170	-0.6280	.00400	.00040	.00060	-.00010	-.00010	.66430	921.00000	.00020	
1.600	19.320	-0.6870	.00380	.00030	.00120	.00010	-.00020	.66110	921.00000	.00010	
1.600	22.530	-0.7100	.00320	.00050	.00150	-.00080	.00020	.65850	921.00000	-.00010	
1.600	25.710	-0.7320	.00190	.00100	.00160	-.00210	.00070	.65600	921.00000	-.00040	
1.600	29.700	-0.6130	.00350	-.00050	.00190	-.00050	.00010	.64990	921.00000	-.00010	
GRADIENT		-0.0749	-.00019	.00000	-.00006	.00003	.00000	-.06757	.00000	-.00001	

RUN NO. 31/ 0 RW/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFLC	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.916	-0.2110	.00960	-.00070	.00040	.00390	-.00190	.72470	868.90000	.00140	
2.002	-1.232	-0.1500	.00940	-.00090	.00070	.00360	-.00190	.79840	868.90000	.00130	
2.002	1.371	-0.2660	.00860	-.00080	.00060	.00400	-.00200	.53190	868.90000	.00130	
2.002	3.425	-0.00340	.00890	-.00060	.00070	.00400	-.00190	.64430	868.90000	.00130	
2.002	5.543	-0.1270	.00850	-.00080	.00070	.00290	-.00160	.65730	868.90000	.00110	
2.002	7.611	-0.2080	.00900	-.00070	.00090	.00330	-.00170	.66110	868.90000	.00110	
2.002	9.699	-0.2550	.00910	-.00070	.00100	.00300	-.00150	.65960	868.90000	.00100	
2.002	12.830	-0.3130	.00840	-.00070	.00110	.00200	-.00120	.65700	868.90000	.00080	
2.002	15.990	-0.3810	.00760	-.00040	.00130	.00150	-.00090	.65590	868.90000	.00060	
2.002	19.140	-0.4430	.00670	.00000	.00130	.00030	-.00040	.65490	868.90000	.00030	
2.002	22.320	-0.5170	.00570	.00010	.00140	-.00090	.00020	.65450	868.90000	.00000	
2.002	25.460	-0.6010	.00440	.00000	.00150	-.00120	.00040	.65460	868.90000	-.00020	
2.002	29.470	-0.6630	.00000	.00000	.00170	-.00370	.00150	.65270	868.90000	-.00080	
GRADIENT		-0.0498	-.00017	-.00001	.00005	.00005	-.00000	-.02877	.00000	-.00002	

ARC 97-747 QAS38 B C M F W1 V LOW RM/L

(AEK016) (18 MAR 74)

REFERENCE DATA

BREF = 8.4210 89.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = -20.000
 ALLROM = .000 BOFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

PARAMETRIC DATA

RUN NO. 37/ 0 RM/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM/LD	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
1.001	-1.475	.11980	-.00370	.00120	-.00100	-.00480	.00190	.04950	254.30000	-.00130
1.001	-1.204	.10910	-.00300	.00110	-.00090	-.00360	.00210	.01950	254.30000	-.00130
1.001	1.319	.09660	-.00350	.00100	-.00120	-.00440	.00140	1.17200	254.30000	-.00120
1.001	3.340	.08230	-.00330	.00080	-.00120	-.00220	.00110	-.36240	254.30000	-.00070
1.001	5.370	.06770	-.00450	.00090	-.00120	-.00300	.00140	.43850	254.30000	-.00070
1.001	7.395	.05460	-.00520	.00080	-.00090	-.00470	.00200	.54050	254.30000	-.00100
1.001	9.425	.04350	-.00540	.00080	-.00090	-.00110	.00080	.58100	254.30000	-.00070
1.001	11.450	.03280	-.00550	.00100	-.00080	-.00260	-.00040	.60270	254.30000	-.00010
1.001	13.510	.01660	-.00420	.00020	-.00090	.00190	-.00030	.62250	254.30000	-.00030
1.001	15.560	.01110	-.00450	-.00020	-.00120	.00050	.00020	.62710	254.30000	-.00030
1.001	17.600	.00780	-.00580	-.00020	-.00060	.00250	-.00040	.62840	254.30000	.00000
1.001	19.600	.00490	-.00390	-.00140	-.00080	.00450	-.00120	.63090	254.30000	.00040
1.001	21.600	.01660	-.00410	-.00190	-.00060	.00490	-.00120	.62750	254.30000	.00050
1.001	23.600	-.00778	-.00004	-.00008	-.00006	.00062	-.00018	-.23471	.00000	.00013

RUN NO. 38/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM/LD	CY	CYN	CBL	CVY	CYNV	XCP/L	Q	CBLV
2.003	-1.480	.07510	.00380	-.00030	-.00010	.00320	-.00110	.00650	197.40000	.00050
2.003	-1.199	.06900	.00230	.00010	-.00010	-.00710	-.00230	.06840	197.40000	.00110
2.003	1.314	.06120	.00370	.00030	-.00010	.00320	-.00160	1.10500	197.40000	.00090
2.003	3.331	.05210	-.00030	.00000	-.00070	.00360	-.00120	.03450	197.40000	.00050
2.003	5.348	.04130	-.00230	.00110	-.00100	.00320	-.00110	.49740	197.40000	.00040
2.003	7.358	.03340	.00050	.00100	-.00060	.00610	-.00180	.56840	197.40000	.00070
2.003	9.387	.02820	-.00140	.00110	-.00030	.00580	-.00110	.59450	197.40000	.00060
2.003	12.410	.02550	-.00160	.00090	-.00080	-.00070	.00030	.60880	197.40000	-.00020
2.003	15.450	.02270	.00030	.00030	-.00070	.00230	-.00050	.61650	197.40000	-.00020
2.003	18.480	.01730	.00010	.00080	-.00060	.00240	-.00070	.62270	197.40000	.00000
2.003	21.510	.01280	-.00120	.00080	-.00090	.00260	-.00070	.62660	197.40000	.00000
2.003	24.540	.00730	-.00210	.00020	-.00090	.00120	-.00010	.62970	197.40000	-.00020
2.003	28.330	.00330	-.00020	.00040	-.00110	.00260	-.00050	.63150	197.40000	-.00010
2.003	GRADIENT	-.00482	-.00072	.00024	-.00012	-.00012	.00005	-.14762	.00000	-.00003

REFERENCE DATA

BRP = 2.4210 SR-FT. ZMRP = 32.3510 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

BETA = .000 ELEVOM = -20.000
 AIRLON = .000 BEFLAP = -11.700
 APCBRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 41/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	FWD	CY	CYN	CBL	CVY	CYV	CYV	XCP/L	θ	CBLV
1.601	-1.338	-.1700	.00920	-.00110	-.00100	.00110	-.00060	-.00160	.84350	911.10000	.00060
1.601	-.218	.10710	.00430	-.00100	-.00120	-.00140	.00020	-.00140	.91140	911.10000	.00020
1.601	1.365	-.09530	-.00830	-.00110	-.00100	.00000	-.00020	.00000	1.16900	911.10	.00040
1.601	3.470	.08010	.00790	-.00110	-.00120	-.00000	-.00000	-.00000	-.19470	911.10000	.00030
1.601	5.373	-.06530	-.00680	-.00100	-.00120	-.00000	-.00010	-.00010	.43450	911.10000	.00020
1.601	7.681	.05130	.00560	-.00060	-.00080	.00040	-.00040	-.00040	.55160	911.10000	.00040
1.601	9.784	-.03780	-.00530	-.00010	-.00060	-.00000	-.00000	-.00000	.59050	911.10000	.00000
1.601	12.960	.02430	.00490	-.00020	-.00030	-.00100	.00010	.00010	.61420	911.10000	.00010
1.601	16.130	-.01450	-.00520	-.00010	-.00020	-.00020	-.00020	-.00020	.62450	911.10000	.00020
1.601	19.310	.01020	.00400	.00010	.00020	-.00000	.00000	.00000	.62780	911.10000	.00010
1.601	22.490	-.00720	-.00270	-.00040	-.00050	-.00010	-.00010	-.00010	.62980	911.10000	-.00020
1.601	25.690	.00470	.00070	.00000	.00020	-.00020	.00000	-.00000	.63110	911.10000	-.00030
1.601	29.150	-.01620	-.00360	-.00050	-.00050	-.00120	.00020	.00020	.62720	911.10000	-.00010
1.601	GRADIENT	-.00747	-.00023	-.00001	-.00003	-.00008	.00000	.00000	-.13196	.00000	-.00004

RUN NO. 40/ 0

RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLM/FWD	CY	CYN	CBL	CVY	CYV	CYV	XCP/L	θ	CBLV
2.003	-1.938	.07700	.01300	-.00130	.00010	.00360	-.00160	-.00160	.80410	872.90000	.00140
2.003	-.230	.07100	.01260	-.00120	.00000	.00320	-.00170	-.00170	.86160	872.90000	.00130
2.003	1.938	-.06310	.01170	-.00110	.00020	.00250	-.00150	-.00150	1.03300	872.90000	.00120
2.003	3.420	.05270	.01080	-.00090	.00030	.00270	-.00150	-.00150	.65740	872.90000	.00120
2.003	5.128	.04230	.00960	-.00080	.00010	.00230	-.00140	-.00140	.45720	872.90000	.00110
2.003	7.601	-.03390	.00930	-.00070	.00040	.00260	-.00150	-.00150	.56910	872.90000	.00110
2.003	9.697	.02920	.00820	-.00050	.00030	.00180	-.00120	-.00120	.55190	872.90000	.00090
2.003	12.840	-.02480	.00690	-.00050	.00040	.00200	-.00120	-.00120	.60990	872.90000	.00090
2.003	16.000	.02130	.00660	-.00020	.00070	.00130	-.00070	-.00070	.61760	872.90000	.00070
2.003	19.130	-.01640	.00600	-.00040	.00030	.00070	-.00060	-.00060	.62360	872.90000	.00070
2.003	22.310	.01130	.00600	-.00030	.00060	-.00020	.00030	.00030	.62740	872.90000	.00070
2.003	25.470	-.00670	.00550	-.00010	.00030	-.00020	.00010	.00010	.63010	872.90000	-.00040
2.003	29.420	.00610	.00560	-.00190	.00020	-.00490	.00190	.00190	.63070	872.90000	.00130
2.003	GRADIENT	-.00492	-.00046	.00003	.00003	-.00019	.00006	.00006	-.13761	.00000	-.00004

AP 87-741 CAS3B B C M F MI V MOM. RM/L

(AEK021) (12 MAR 74)

REFERENCE

HREF = 2.4210 J
 LREF = 14.2440 IN. REF = 32.3010 IN.
 BREF = 23.1004 IN. REF = 49.0000 IN.
 SCALE = .0500 SCALE REF = 17.2500 IN.

PARAMETRIC DATA

BE(A) = .000 ELEVON = -10.000
 AIRLON = 10.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -20.000

N 43/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	MFM	CY	CBL	CYV	CYR	XCP/L	Q	CBLV
1.600	-1.537	-.0050	.00680	.01350	.00230	-.03100	.53870	590.10000	.00680
1.600	-1.215	-.0050	.00680	.01340	.00090	.00050	.52000	593.10000	.00040
1.600	1.327	.00620	.00740	.01310	-.00010	-.00020	.51500	595.10000	.00030
1.600	3.391	.00490	.00640	.01300	.00150	-.00070	.51000	595.10000	.00040
1.600	5.451	.00480	.00500	.01320	-.00020	.00010	.50500	595.10000	.00020
1.600	7.497	.00500	.00430	.01490	.00140	-.00060	.50000	595.10000	.00030
1.600	9.563	.00520	.00470	.01220	.00070	-.00040	.52470	595.10000	.00040
1.600	12.650	.00500	.00500	.01210	.00210	-.00080	.63710	595.10000	.00050
1.600	15.740	.00510	.00430	.01200	.00130	-.00070	.64260	590.10000	.00040
1.600	18.930	.00540	.00430	.01300	-.00010	.00000	.64420	595.10000	.00030
1.600	22.150	.00430	.00440	.01310	-.00015	.00000	.54360	595.10000	.00030
1.600	25.170	.00490	.00440	.01300	-.00090	.00050	.64430	595.10000	-.00030
1.600	29.070	.00930	-.0010	.01280	.0010	-.00060	.63770	590.10000	.00030
GRADIENT		.00046	-.00041	-.00007	-.00017	.00006	-.02280	.00000	-.00007

RUN NO. 43/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFO	CY	CBL	CYV	CYR	XCP/L	Q	CBLV
2.002	-1.537	.05330	.00570	.01090	.00490	-.00210	.70430	503.10000	.00140
2.002	-1.215	.04620	.00500	.01040	.00460	-.00200	.85410	563.10000	.00140
2.002	1.327	.03920	.00620	.01060	.00530	-.00220	1.50700	563.10000	.00140
2.002	3.391	.02870	.00490	.01000	.00380	-.00170	.47330	563.10000	.00120
2.002	5.451	.01900	.00480	.00960	.00390	-.00170	.58470	563.10000	.00110
2.002	7.497	.01100	.00530	.00940	.00390	-.00160	.61480	563.10000	.00100
2.002	9.563	.00510	.00500	.00890	.00370	-.00150	.62850	563.10000	.00090
2.002	12.650	.00030	.00570	.00900	.00310	-.00120	.63250	563.10000	.00070
2.002	15.740	-.00380	.00520	.00910	.00240	-.00080	.63520	563.10000	.00040
2.002	18.940	-.00860	.00500	.00900	.00080	-.00020	.63500	563.10000	.00000
2.002	21.940	-.01360	.00370	.00920	-.00010	.00020	.63900	563.10000	-.00030
2.002	25.040	-.02040	.00420	.00960	.00030	.00030	.64070	563.10000	-.00040
2.002	28.910	-.02500	.00370	.00990	.00130	-.00010	.64040	563.10000	-.00020
GRADIENT		-.00495	-.00009	-.00013	-.00016	.00007	-.03298	.00000	-.00004

REFERENCE DATA

BREF = 2.4210 SQ.FT. γ = 32.3010 IN.
 LREF = 14.2440 IN. γ_r = .0000 IN.
 BREF = 28.1004 IN. ZARP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOK = -20.000
 ATLRON = 20.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.503	.11210	-.03620	.02370	.02230	-.00930	.00470	.64050	587.40000	-.00280
1.600	-.217	.10030	-.03640	.02430	.02130	-.00900	.00440	.90880	587.40000	-.00260
1.600	1.337	-.08710	-.03340	.02330	.02130	-.00790	.00380	1.20600	587.40000	-.00220
1.600	3.401	.06930	-.03310	.02190	.02130	-.00590	.00310	.07080	587.40000	-.00180
1.600	3.473	-.05220	-.03140	.01950	.02040	-.00520	.00270	.50280	587.40000	-.00150
1.600	7.543	.03540	-.02830	.01760	.02040	-.00410	.00200	.58080	587.40000	-.00110
1.600	9.605	-.02160	-.02780	.01650	.01910	-.00190	.00110	.60970	587.40000	-.00070
1.600	12.720	.05660	-.02090	.01370	.01760	-.00250	.00120	.62770	587.40000	-.00060
1.600	15.620	-.00310	-.01460	.01090	.01690	-.00260	.00120	.63570	587.40000	-.00070
1.600	18.930	-.01280	-.01100	.00950	.01700	-.00190	.00100	.63880	587.40000	-.00070
1.600	22.040	-.01320	-.00960	.00880	.01720	-.00220	.00130	.63880	587.40000	-.00090
1.600	25.180	-.01680	-.00620	.00700	.01670	-.00360	.00200	.63880	587.40000	-.00130
1.600	29.080	-.00570	-.00620	.00130	.01370	-.00010	.00030	.63450	587.40000	-.00040
1.600	GRADIENT	-.00858	.00100	-.00075	-.00020	.00071	-.00033	-.14125	.00000	.00021

RUN NO. 45/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.557	.06900	-.00920	.01410	.01830	.00400	-.00170	.79150	565.20000	-.00120
2.002	-.217	.06110	-.01020	.01360	.01790	.00310	-.00140	.84750	565.20000	-.00110
2.002	1.329	.05210	-.01120	.01330	.01700	.00270	-.00130	1.12400	565.20000	-.00100
2.002	3.373	.04090	-.01030	.01230	.01630	.00340	-.00150	.28350	565.20000	-.00100
2.002	5.428	.03000	-.00950	.01100	.01540	.00320	-.00140	.54340	565.20000	-.00090
2.002	7.484	-.02090	-.00760	.00970	.01500	.00210	-.00090	.59520	565.20000	-.00070
2.002	9.549	.01600	-.00620	.00910	.01470	.00270	-.00110	.61210	565.20000	-.00070
2.002	12.640	-.01910	-.00120	.00700	.01420	.00100	-.00040	.62360	565.20000	-.00040
2.002	15.740	.00390	.00150	.00570	.01380	.00130	-.00040	.62870	565.20000	-.00020
2.002	18.840	-.00080	.00170	.00330	.01380	-.00010	.00010	.63210	565.20000	-.00000
2.002	21.930	-.00520	.00380	.00350	.01350	-.00040	.00030	.63510	565.20000	-.00030
2.002	25.030	-.01150	.00440	.00300	.01380	-.00010	.00040	.63730	565.20000	-.00060
2.002	28.900	-.01470	.01000	.00200	.01430	-.00010	.00000	.63770	565.20000	-.00020
2.002	GRADIENT	-.00570	-.00023	-.00035	-.00046	-.00011	.00004	-.06880	.00000	-.00004

(AEK023) (12 MAR 74)

REFERENCE DATA

MREF = 1.210 98.71 XMRP = 31.3010 IN.
 LREF = 1.2440 IN. Y RP = .0000 IN.
 BREF = 22.1004 IN. Z RP = 1.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AIRCOM = .000 BDFLAP = -11.700
 SPBRK = 53.000 RUDDER = .000
 ELEV-L = -40.000 ELEV-R = -40.000

M 49. 48/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	Q	CBLV
1.600	-1.32	1.7150	.0020	.0090	-.00100	-.00240	.00110	.83960	588.60000	-.00070
1.600	-1.29	.9950	.0020	.0090	-.00110	-.00190	.00100	.89030	588.60000	-.00070
1.600	1.31	1.3110	-.0020	.00280	-.00120	-.00160	.00090	.97620	588.60000	-.00060
1.600	3.35	1.31	-.00180	.00150	-.00130	-.00340	.00150	1.56700	588.60000	-.00040
1.600	5.43	1.0720	-.0020	.00100	-.00160	-.00260	.00120	1.87720	588.60000	-.00070
1.600	7.42	1.0630	-.0030	.00260	-.00180	-.00420	.00160	1.43550	588.60000	-.00040
1.600	9.24	1.0630	-.0030	.00460	-.00190	-.00450	.00220	1.5550	588.60000	-.00030
1.600	12.690	1.0620	-.0040	.00320	-.0070	-.00350	.00160	1.8610	588.60000	-.00090
1.600	15.810	1.0580	-.0050	.00360	-.00140	-.00160	.00100	1.60790	588.60000	-.00090
1.600	18.920	1.0540	-.00310	.00250	-.00190	-.00180	.00120	1.61470	588.60000	-.00080
1.600	22.040	1.0360	-.00430	.00290	-.00190	-.00240	.00140	1.61850	588.60000	-.00090
1.600	25.160	1.0270	-.00270	.00270	-.00160	-.00190	.00130	1.62050	588.60000	-.00090
1.600	29.050	1.0290	-.00090	.00080	-.00140	-.00200	-.00090	1.62030	588.60000	-.00090
1.600	33.000	1.0000	-.00030	.00000	-.00006	-.00020	.00008	1.14635	.00000	-.00000

RUN NO. 477 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	Q	CBLV
2.002	-1.524	1.0690	.00990	.00950	.00040	.00340	-.00160	.80770	567.40000	.00100
2.002	-1.236	1.0120	.01090	.00010	.00030	.00220	-.00120	.84590	567.40000	.00090
2.002	1.311	1.0890	.00890	.00070	.00010	.00230	-.00120	.94190	567.40000	.00090
2.002	3.363	1.07650	.00620	.00140	.00030	.00190	-.00100	2.19300	567.40000	.00070
2.002	5.424	1.0520	.00540	.00130	-.00030	.00230	-.00110	.27730	567.40000	.00080
2.002	7.473	1.05540	.00420	.00120	-.00050	.00190	-.00090	.49560	567.40000	.00060
2.002	9.335	1.04980	.00570	.00110	-.00020	.00240	-.00110	.55290	567.40000	.00070
2.002	12.630	1.0460	.00600	.00070	-.00060	.00270	-.00100	.56640	567.40000	.00060
2.002	15.730	1.04030	.00620	.00120	-.00030	.00110	-.00090	.60200	567.40000	.00030
2.002	18.830	1.03570	.00550	.00140	-.00050	.00000	.00010	.61120	567.40000	-.00010
2.002	21.930	1.03120	.00440	.00110	-.00060	-.00060	.00030	.61720	567.40000	.00020
2.002	25.030	1.02650	.00350	.00130	-.00040	-.00040	.00030	.62150	567.40000	-.00030
2.002	28.930	1.02370	.00380	.00040	-.00040	-.00010	.00020	.62430	567.40000	-.00030
2.002	GRADIENT	-.00671	-.00085	.00022	-.00003	-.00026	.00011	.27785	.00000	-.00000

REFERENCE DATA

BREF = 2.4210 98-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1904 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPCBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 56/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-1.534	.02520	.00420	.00070	-.00050	.00030	-.00050	.74100	598.10000	.00030
1.600	-.207	.01530	.00250	.00080	-.00060	-.00270	.00070	.85120	598.10000	-.00010
1.600	1.345	.00400	.00270	.00080	-.00050	-.00070	-.00010	.60280	598.10000	.00020
1.600	3.417	-.01000	.00240	.00070	-.00070	-.00040	.00000	.68830	598.10000	.00030
1.600	5.471	-.02400	.00340	.00060	-.00060	.00020	-.00020	.66960	598.10000	.00030
1.600	7.546	-.03810	.00420	.00050	-.00010	-.00020	-.00010	.67420	598.10000	.00020
1.600	9.575	-.04070	.00420	.00050	-.00050	.00120	-.00050	.67220	598.10000	.00040
1.600	12.710	-.05610	.00390	.00030	.00030	.00000	-.00010	.66940	598.10000	.00020
1.600	15.820	-.06710	.00410	.00020	.00070	.00160	-.00050	.66770	598.10000	.00050
1.600	18.960	-.07390	.00360	.00040	.00100	.00050	-.00020	.66480	598.10000	.00020
1.600	22.090	-.07570	.00320	.00040	.00120	-.00070	.00020	.66090	598.10000	.00000
1.600	25.170	-.07780	.00280	.00050	.00120	-.00110	.00040	.65810	598.10000	-.00020
1.600	29.080	-.06590	.00180	.00000	.00160	-.00050	.00020	.65160	598.10000	-.00010
	GRADIENT	-.00711	-.00033	-.00000	-.00003	.00003	-.00001	-.02998	.00000	.00002

RUN NO. 49/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.548	.00490	.00570	-.00010	.00210	-.00100	.65560	570.60000	.00090
2.002	-.216	-.00070	.00490	.00000	.00360	-.00150	.62310	570.60000	.00110
2.002	1.323	-.00780	.00390	-.00010	.00250	-.00110	.72190	570.60000	.00090
2.002	3.383	-.01680	.00420	.00030	.00240	-.00100	.68840	570.60000	.00080
2.002	5.438	-.02530	.00390	-.00030	.00230	-.00100	.68170	570.60000	.00080
2.002	7.488	-.03220	.00480	-.00030	.00310	-.00130	.67700	570.60000	.00090
2.002	9.551	-.03610	.00540	-.00020	.00160	-.00070	.67100	570.60000	.00060
2.002	12.640	-.04010	.00540	-.00020	.00210	-.00130	.66350	570.60000	.00040
2.002	14.700	-.04310	.00520	-.00020	.00180	-.00060	.66350	570.60000	.00040
2.002	17.740	-.04390	.00520	-.00010	.00150	-.00040	.66000	570.60000	.00030
2.002	18.640	-.04750	.00410	.00000	-.00010	.00000	.65700	570.60000	-.00010
2.002	21.940	-.05190	.00340	-.00020	-.00110	.00050	.65320	570.60000	-.00040
2.002	25.040	-.05650	.00390	.00010	-.00070	.00050	.65390	570.60000	-.00040
2.002	28.910	-.03840	.00320	.00000	-.00080	.00060	.65150	570.60000	-.00050
	GRADIENT	-.00442	-.00032	-.00005	-.00003	.00003	.01164	.00000	-.00003

747 OASB B C M F W I V MOM. RN/L

(AEK025) (12 MAR 74)

REFERENCE

REF = 2.4210 SQ.
 LREF = 14.6410
 SREF = 28.1004 IN.
 SCALE = 0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUCCER = .000
 ELEV-L = .000 ELEV-R = .070

RUN NO. 55/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	θ	CBLV
1.000	-5.162	-0.016	-0.070	-0.0430	.00370	.04110	-.01880	.02030	598.40000	.01290
1.000	-5.161	-0.016	.05590	-.00190	.00200	.02570	-.01150	.04020	598.40000	.00790
1.000	-5.160	-0.016	.04100	.00010	-.00040	-.00780	-.00360	.04760	598.40000	.00260
1.000	-5.162	-0.016	.02290	.03090	-.00040	.00560	-.00040	.05950	598.40000	.00040
1.000	-5.160	-0.016	.01610	.00150	-.00120	-.00690	.00320	.07940	598.40000	-.00160
1.000	-5.165	-0.016	.04090	.00230	-.00250	-.02210	.01020	.08320	598.40000	-.00560
1.000	-5.145	-0.016	.03630	.00310	-.00410	-.03890	.01760	.01020	598.40000	-.01150
1.000	-5.985	-0.016	.03210	.00330	-.00300	-.04570	.02070	.02860	598.40000	-.01350
	GRADIENT	.00022	-.01728	.00068	-.00073	-.00767	.00349	.00775	.00000	-.00234

RUN NO. 50/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	θ	CBLV
2.000	-5.540	-0.0370	.09960	-.00020	.00320	.04160	-.01890	.04670	576.90000	.01290
2.000	-5.482	-0.0300	.05930	.00130	-.00170	.02620	-.01170	.08920	576.90000	.00860
2.000	-5.417	-0.0100	.02210	.00160	.00040	.01040	-.00460	.01870	576.90000	.00320
2.000	-5.375	-0.0050	.00400	.00160	-.00010	.00270	-.00120	.02600	576.90000	.00090
2.000	-5.647	-0.0030	-.01480	.00180	-.00070	-.00600	.00260	.02820	576.90000	-.00160
2.000	-5.708	-0.0100	-.05180	.00240	-.00210	-.02040	.00910	.01700	576.90000	-.00520
2.000	-4.774	-0.0050	-.09090	.00390	-.00400	-.03680	.01670	.05670	576.90000	-.01090
2.000	-5.815	-0.0040	-.11020	.00460	-.00480	-.04470	.02030	.03170	576.90000	-.01320
	GRADIENT	-.00007	-.01815	.00030	-.00068	-.00760	.00342	-.00259	.00000	-.00229

ARC 97-747 QAS38 B C M F H I V NOM. RN/L

(AEK026) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 80-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0300 IN.
 BRP = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPOBK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 54/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
1.600	-5.041	-0.05069	.00000	.00180	.00690	.02860	-.01360	.67330	596.60000
1.600	-3.601	-0.04690	.04980	.00130	.00280	.01730	-.00840	.67100	596.60000
1.600	-9.900	-0.04740	.01990	.00090	.00050	.00520	-.00270	.67140	596.60000
1.600	.036	-0.04770	.00450	.00060	-.00020	.00020	-.00010	.67150	596.60000
1.600	1.041	-0.04670	-.00910	.00020	-.00050	-.00610	.00280	.67080	596.60000
1.600	3.076	-0.04740	-.04010	-.00110	-.00320	-.01630	.00780	.67110	596.60000
1.600	5.107	-0.04730	-.07040	-.00320	-.00370	-.02620	.01270	.67070	596.60000
1.600	7.141	-0.04650	-.10390	-.00470	-.00890	-.03820	.01830	.67010	596.60000
1.600	7.545	-0.04590	-.11050	-.00510	-.04220	-.05000	.02000	.66950	596.60000
	GRADIENT	-.00004	-.01474	-.00039	-.00094	-.00565	.00267	-.00001	-.00000

RUN NO. 51/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	CBLV
2.002	-5.433	-0.03680	.00690	.00490	.00440	.02740	-.01290	.67390	580.70000
2.002	-3.362	-0.03720	.05350	.00400	.00230	.01690	-.00810	.66970	580.70000
2.002	-1.369	-0.03680	.02160	.00270	.00040	.00730	-.00340	.66960	580.70000
2.002	-3.348	-0.03720	.00720	.00180	-.00030	.00260	-.00110	.66980	580.70000
2.002	.677	-0.03690	-.00870	.00100	-.00120	-.00370	.00170	.66970	580.70000
2.002	2.702	-0.03670	-.04160	-.00010	-.00310	-.01480	.00700	.66940	580.70000
2.002	4.730	-0.03660	-.07370	-.00390	-.00550	-.02570	.01220	.66930	580.70000
2.002	6.766	-0.03640	-.10840	-.00210	-.00840	-.03660	.01720	.67060	580.70000
2.002	9.803	-0.04190	-.14590	-.00480	-.01070	-.00000	.00000	.67370	580.70000
	GRADIENT	.00005	-.01567	-.00062	-.00094	-.00331	.00252	-.00005	-.00000



97-747 5-33B 0 C M F W I V MOM. R/L

(AEK027) (12 MAR 74)

REFER

PARAMETRIC DATA

SREF 2.42:0
LREF 14.2449 I
BREF 20.1004 IP
SCALE .0350 SCALE

1MRP 7.3010 IM.
YMR 7.0000 IM.
2MRP 11.2500 IM.

ALPHA = 20.000 ELEVOM = .000
AELROM = .000 BDFLAP = -11.700
SPDBRK = 25.000 RUDDER = .000
ELEV-L = .000 ELEV-R = .000

REP MC 53/0 RNL = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CLMFG CY CYN CBL CYV CYNV XCP/L CBLV
1.600 -5.047 -0.3742 -0.6630 -0.0330 -0.0060 -0.00790 -0.0040 -0.66200 598.70000 -0.0120
1.650 -3.162 -0.3742 -0.6630 -0.0330 -0.0060 -0.00590 -0.0040 -0.66240 598.70000 -0.0060
1.670 -1.952 -0.3742 -0.6630 -0.0330 -0.0060 -0.00190 -0.0010 -0.66280 598.70000 -0.0030
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.0030 -0.0010 -0.66250 598.70000 -0.0010
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.00180 -0.0010 -0.66230 598.70000 -0.0001
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.00470 -0.0000 -0.66230 598.70000 -0.0030
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.00710 -0.0050 -0.66150 598.70000 -0.0010
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.00710 -0.0050 -0.66090 598.70000 -0.0010
1.690 .54 -0.3742 -0.6630 -0.0330 -0.0060 -0.00170 -0.0010 -0.66090 598.70000 -0.0040
GRADIENT .0005 -0.0074 -0.0277 -0.0080 -0.0013 -0.00174 -0.00310 -0.0003 -0.0000 -0.0000 -0.0010

FOR NO.

52/0 RNL = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH BETA CLMFG CY CYN CBL CYV CYNV XCP/L CBLV
2.002 -5.412 -0.05190 -0.6360 -0.0350 -0.0090 -0.01160 -0.00250 -0.65710 579.90000 -0.0020
2.002 -3.362 -0.05030 -0.6360 -0.0350 -0.0090 -0.00280 -0.00240 -0.65640 579.90000 -0.0050
2.002 -1.319 -0.04960 -0.6360 -0.0350 -0.0090 -0.00280 -0.00080 -0.65600 579.90000 -0.0010
2.002 -.294 -0.04830 -0.6360 -0.0350 -0.0090 -0.00140 -0.00040 -0.65590 579.90000 -0.0020
2.002 .716 -0.04960 -0.6360 -0.0350 -0.0090 -0.00340 -0.00100 -0.65500 579.90000 -0.0030
2.002 2.770 -0.05040 -0.6360 -0.0350 -0.0090 -0.00760 -0.00170 -0.65640 579.90000 -0.0040
2.002 4.001 -0.05290 -0.6360 -0.0350 -0.0090 -0.00940 -0.00150 -0.65750 579.90000 -0.0020
2.002 6.844 -0.05500 -0.6360 -0.0350 -0.0090 -0.01020 -0.00370 -0.65840 579.90000 -0.0010
2.002 8.902 -0.05500 -0.6360 -0.0350 -0.0090 -0.00290 -0.00420 -0.65840 579.90000 -0.0010
GRADIENT -0.0003 -0.0144 -0.0294 -0.0013 -0.00227 -0.00049 -0.0000 -0.0000 -0.0000 -0.0000 -0.0005

ARC 97-747 04538 B C M F W2 V MOM. RM/L

(AEK088) (12 MAR 74)

REFERENCE DATA

SRFP = 2.4210 80.FT. XMRP = 32.2010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1594 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = .000
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 58/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYVH	XCP/L	Q	CBLV
1.600	-1.495	.04240	.00060	.00060	-.00080	.00190	-.00190	.80630	593.40000	.00060
1.600	-.181	.03180	.00560	.00070	-.00010	-.00080	.00000	1.06400	593.40000	.00020
1.600	1.358	.01990	.00560	.00070	-.00020	.00060	-.00050	.47100	593.40000	.00030
1.600	3.400	.00450	.00570	.00070	-.00030	.00140	-.00070	.52100	593.40000	.00050
1.600	5.490	-.01120	.00660	.00060	-.00070	.00090	-.00050	.64900	593.40000	.00040
1.600	7.562	-.02670	.00670	.00030	.00030	.00170	-.00080	.66170	593.40000	.00050
1.600	9.635	-.03560	.00660	.00040	.00000	.00120	-.00060	.66340	593.40000	.00040
1.600	12.710	-.04800	.00750	.00030	.00000	.00150	-.00070	.66380	593.40000	.00040
1.600	15.850	-.06000	.00760	.00020	.00050	.00120	-.00060	.66280	593.40000	.00040
1.600	18.940	-.06870	.00670	.00040	.00070	.00030	-.00020	.66230	593.40000	.00020
1.600	22.060	-.07390	.00600	.00080	.00070	-.00030	.00000	.66000	593.40000	.00000
1.600	25.190	-.07720	.00490	.00110	.00020	-.00020	.00080	.65770	593.40000	-.00020
1.600	29.070	-.06230	.00540	.00070	.00100	-.00020	.00010	.65080	593.40000	-.00020
	GRADIENT	-.06773	-.00005	.00002	-.00003	.00004	-.00001	-.06990	.00000	.00000

RUN NO. 57/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYVH	XCP/L	Q	CBLV
2.002	-1.501	.02040	.00560	.00100	.00030	.00480	-.00190	.72350	565.30000	.00120
2.002	-.197	.01430	.00440	.00110	.00010	.00390	-.00160	.79940	565.30000	.00100
2.002	1.302	.00850	.00390	.00120	.00000	.00200	-.00100	.55030	565.30000	.00070
2.002	3.391	-.00350	.00330	.00120	-.00010	.00290	-.00130	.64450	565.30000	.00090
2.002	5.457	-.01330	.00340	.00110	-.00020	.00370	-.00150	.65860	565.30000	.00050
2.002	7.492	-.02110	.00460	.00100	-.00020	.00250	-.00110	.66130	565.30000	.00070
2.002	9.536	-.02670	.00560	.00100	.00000	.00300	-.00120	.66130	565.30000	.00050
2.002	12.650	-.03200	.00570	.00090	.00000	.00230	-.00090	.65780	565.30000	.00050
2.002	15.730	-.03760	.00590	.00100	.00000	.00150	-.00050	.65630	565.30000	.00030
2.002	18.840	-.04400	.00470	.00110	-.00020	.00010	.00000	.65510	565.30000	-.00010
2.002	22.000	-.05090	.00440	.00100	-.00030	-.00070	.00030	.65460	565.30000	-.00030
2.002	25.010	-.05910	.00410	.00080	-.00020	-.00050	.00040	.65470	565.30000	-.00040
2.002	28.920	-.06540	.00410	.00090	-.00010	-.00020	.00030	.65360	565.30000	-.00030
	GRADIENT	-.00491	-.00040	.00004	-.00000	-.00043	.00014	-.02842	-.00000	-.00000

7-747 C-333 B C M F W I V MON. RN/L

(AEK085) (1R MAR 74)

REFEREN

PARAMETRIC DATA

SREF = 2.4210 SR.F WIND = 30.3010 IN.
 LBREF = 14.2440 IN. TRAPP = .0000 IN.
 DBREF = 20.1054 IN. ZREF = 11.2550 IN.
 SCALE = .0300 SCALE

ALPHA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 52/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL/FWD	CY	CYN	CBL	CYV	CYVW	XCP/L	R	CBLV
1.600	-5.154	.01300	.03620	.00360	-.00110	.02690	-.01100	1.02800	596.60000	.00300
1.700	-5.100	.01720	.04410	.00620	-.00280	.01080	-.00340	1.05100	596.60000	.00290
1.800	-5.040	.02820	.03350	.00810	-.00450	-.00590	.00410	1.05300	596.60000	-.00110
1.900	-4.928	.03820	.00830	.00370	-.00510	-.01400	.00760	1.06000	596.60000	-.00450
1.950	-4.828	.04280	.00150	.00150	-.00490	-.02190	.01120	1.07700	596.60100	-.00380
1.950	-4.770	.04340	.00230	.00200	-.00750	-.03640	.01790	1.06900	596.60000	-.01140
1.950	-4.713	.04540	.00510	.01080	-.00920	-.00360	.02550	1.10200	596.60000	-.01540
1.950	-4.672	.04370	.00190	.01090	-.01900	-.06080	.02910	1.09800	596.60000	-.01660
1.950	GRADIENT	.00049	-.01721	.00065	-.00075	-.00766	.00345	.00379	.00000	-.00031

RUN NO. 55/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL/FWD	CY	CYN	CBL	CYV	CYVW	XCP/L	R	CBLV
2.002	-5.143	.01300	.03940	.00490	-.00020	.02980	-.01250	.77180	572.20000	.00300
2.002	-3.490	.01720	.05030	.00680	-.00180	.01500	-.00540	.80610	572.20000	.00410
2.002	-1.401	.01370	.01150	.00790	-.00350	-.00160	.00210	.82910	572.20000	-.00100
2.002	-1.389	.01860	.00660	.00630	-.00410	-.00980	.00580	.83460	572.20000	-.00340
2.002	.624	.02800	.02470	.00670	-.00500	-.01650	.00900	.83830	572.20000	-.00560
2.002	2.707	.02030	.00360	.00970	-.00850	-.03320	.01640	.85360	572.20000	-.01360
2.002	4.770	.01900	.00290	.01140	-.00850	-.04830	.02360	.86310	572.20000	-.01540
2.002	5.786	.01750	.01233	.01180	-.00960	-.05610	.02710	.85100	572.20000	-.01760
2.002	GRADIENT	.00019	-.01830	.00055	-.00060	-.00767	.00350	.00664	.00000	-.00035

ARC 97-747 04538 B C M F W L V MOM. RN/L

(AEROS) (12 MAR 74)

REFERENCE DATA

Z 2.4210 98.FT. ZMRP = 32.3010 IN.
 Z 14.2440 IN. ZMRP = .0000 IN.
 Z 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 99.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 63/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYRV	XCP/L	Q	CBLV
1.600	-5.047	-.03130	.07060	.00760	.00300	.01750	-.00760	.65840	596.30000	.00500
1.600	-3.508	-.02760	.03910	.00760	-.00110	.00690	-.00220	.65370	596.30000	.00210
1.600	-.998	-.02760	.00880	.00750	-.00340	-.00650	.00400	.65370	596.30000	-.00200
1.600	.020	-.02770	-.00680	.00730	-.00400	-.01180	.00660	.65360	596.30000	-.00370
1.600	1.034	-.02700	-.02060	.00670	-.00490	-.01680	.00900	.65310	596.30000	-.00340
1.600	3.070	-.02360	-.03070	.00590	-.00720	-.02730	.01410	.65410	596.30000	-.00890
1.600	5.109	-.02590	-.04330	.00460	-.01050	-.04000	.02010	.65400	596.30000	-.01290
1.600	7.145	-.02500	-.11660	.00330	-.01370	-.05370	.02630	.65330	596.30000	-.01700
1.600	9.182	-.02500	-.15120	.00230	-.01640	-.06470	.03170	.65320	596.30000	-.02060
	GRADIENT	.00033	-.01474	-.00029	-.00098	-.00557	.00266	-.00027	.00000	-.00180

RUN NO. 60/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYRV	XCP/L	Q	CBLV
2.002	-5.433	-.02250	.07720	.00990	.00170	.02070	-.00890	.65650	571.70000	.00660
2.002	-3.374	-.02340	.04370	.00930	-.00070	.00930	-.00340	.65360	571.70000	.00280
2.002	-1.355	-.01940	.01070	.00820	-.00260	-.00350	.00250	.65270	571.70000	-.00110
2.002	-.349	-.01930	-.00460	.00740	-.00360	-.00830	.00490	.65250	571.70000	-.00280
2.002	.667	-.01850	-.02060	.00660	-.00460	-.01570	.00520	.65160	571.70000	-.00480
2.002	2.698	-.01760	-.05340	.00570	-.00670	-.02470	.01290	.65060	571.70000	-.00830
2.002	4.731	-.01700	-.08630	.00530	-.00950	-.03680	.01670	.65010	571.70000	-.01220
2.002	6.781	-.01810	-.12160	.00500	-.01280	-.04910	.02440	.65120	571.70000	-.01590
2.002	8.779	-.02050	-.14170	.00120	-.01490	-.05560	.02790	.65330	571.70000	-.01950
	GRADIENT	.00043	-.01600	-.00052	-.00106	-.00560	.00270	-.00044	.00000	-.00194

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AILTRON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

REFERENCE DATA

SREF = 2.4210 80.F... CM = 32.3010 IN.
 LREF = 14.2440 IN. CRP = .0000 IN.
 BREF = 26.1004 IN. CRP = 11.2500 IN.
 SCALE = .0500 SCALE

RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBL
1.000	5.044	-0.5680	0.3500	0.0184	0.0290	-0.0190	0.0249	0.6570	595.10000	-0.0190
1.000	-2.497	-0.3707	0.1450	-0.0110	-0.0210	-0.0160	0.0620	0.6580	595.10000	-0.0190
1.000	-0.550	-0.0500	0.0100	0.0000	-0.0000	-0.0130	0.0660	0.6560	595.10000	-0.0130
1.000	0.762	0.0340	-0.0100	0.0000	0.0000	-0.0130	0.0730	0.6560	595.10000	-0.0130
1.000	1.071	0.1790	-0.0240	0.0000	-0.0430	-0.0120	0.0760	0.6560	595.10000	-0.0130
1.000	3.115	0.0010	-0.0400	-0.0000	-0.0000	-0.0000	0.0630	0.6530	595.10000	-0.0040
1.000	5.166	0.0010	-0.0400	-0.0000	-0.0000	-0.0000	0.0630	0.6530	595.10000	-0.0040
1.000	7.243	0.0000	-0.0400	-0.0000	-0.0000	-0.0000	0.0630	0.6530	595.10000	-0.0040
1.000	9.275	0.0000	-0.0400	-0.0000	-0.0000	-0.0000	0.0630	0.6530	595.10000	-0.0040
GRADIENT	0.0014	0.0279	-0.0249	-0.0095	-0.0000	-0.0019	0.0000	-0.0000	-0.0000	-0.0000

RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBL
2.000	-5.410	-0.3640	0.3280	0.0220	0.0330	-0.0190	0.0660	0.6580	571.50000	-0.0250
2.000	-3.369	-0.3550	0.3220	0.0170	0.0030	-0.0190	0.0770	0.6490	571.50000	-0.0360
2.000	-1.315	-0.3550	0.0660	0.0070	-0.0210	-0.0140	0.0680	0.6490	571.50000	-0.0360
2.000	-0.312	-0.3510	-0.0040	-0.0000	-0.0330	-0.0120	0.0640	0.6490	571.50000	-0.0360
2.000	0.709	-0.3440	-0.0170	0.0040	-0.0450	-0.0100	0.0630	0.6490	571.50000	-0.0370
2.000	2.754	-0.3590	-0.0390	-0.0230	-0.0560	-0.0510	0.0470	0.6490	571.50000	-0.0330
2.000	4.784	-0.3960	-0.0630	-0.0070	-0.0940	-0.0150	0.0400	0.6510	571.50000	-0.0340
2.000	6.841	-0.4360	-0.0930	-0.0180	-0.1320	-0.0440	0.0330	0.6530	571.50000	-0.0340
2.000	8.884	-0.4430	-0.1320	-0.0140	-0.1790	-0.0190	0.0080	0.6530	571.50000	-0.0060
GRADIENT	0.0004	0.0165	-0.0030	-0.0017	-0.0017	0.0027	-0.0004	0.0000	-0.0000	0.0000

ARC 97-747 QAS38 B C W F W V MON. RN/L

(AEC032) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 36.FT. ZMRP = 32.3010 IN.
 LREF = 14 2440 IN. YMRP = .0000 IN.
 BRP = 26.1994 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AIRLOM = .000 BDLAP = -11.799
 SFDBRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 88/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYM	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.600	-5.042	-.04970	.04630	.02620	-.00180	-.02910	.01240	.65290	587.10000	-.00620
1.600	-3.002	-.04850	.01700	.02250	-.00470	-.02960	.01390	.65290	587.10000	-.00740
1.600	-.952	-.04750	-.01660	.01610	-.00670	-.02920	.01490	.65290	587.10000	-.00840
1.600	.062	-.04770	-.02170	.01530	-.00730	-.02820	.01510	.65210	587.10000	-.00860
1.600	1.095	-.04710	-.03510	.01240	-.00800	-.02690	.01510	.65190	587.10000	-.00870
1.600	3.122	-.04740	-.05000	.00620	-.00970	-.02290	.01460	.65190	587.10000	-.00910
1.600	5.175	-.04760	-.06240	-.00180	-.01150	-.01750	.01300	.65200	587.10000	-.00670
1.600	7.217	-.04990	-.10830	-.00980	-.01310	-.01110	.01060	.59290	587.10000	-.00770
1.600	9.270	-.05280	-.14020	-.01640	-.01500	-.01390	.01090	.65420	587.10000	-.00790
GRADIENT	.00018	.00018	-.01234	-.00267	-.00080	.00113	.00011	-.00009	-.00000	-.00025

RUN NO. 65/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYM	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.353	.01640	.06970	.01630	-.00610	.01140	-.00230	.82370	565.50000	.00270
2.002	-3.488	.02470	.03110	.01710	-.00740	-.00370	.00470	.87450	565.50000	-.00190
2.002	-1.421	.02730	-.00300	.01672	-.00650	-.01660	.01970	.88950	565.50000	-.00610
2.002	-.385	.02680	-.02440	.01670	-.00910	-.02670	.01490	.90330	565.50000	-.00870
2.002	.644	.02940	-.04240	.01660	-.00980	-.03100	.01740	.91580	565.50000	-.01070
2.002	2.704	.02940	-.07860	.01660	-.01100	-.04650	.02380	.93080	565.50000	-.01510
2.002	4.770	.02820	-.11570	.01760	-.01250	-.06080	.03040	.93420	565.50000	-.01950
2.002	5.797	.02730	-.13280	.01800	-.01340	-.06800	.03360	.93310	565.50000	-.02150
GRADIENT	.00041	.00041	-.01776	.00005	-.00062	-.00894	.00011	.00775	-.00000	-.00214



57-741 338 B C M F W I V MOM. RM/L

(AEK033) (12 MAR 74)

PERCENTAGE

BETA = 2.4215 B F 1.3916 IN
 WIND = 14.2433 V 1.0000 IN.
 BULK = 20.1000 1.2500 IN.
 SCALE = 1.3300 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRCOM = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

GRADIENT INTERVAL = 2.75 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 3.00

MACH	BETA	WIND	CT	CYN	CBL	CYV	CYM	KCP/L	Q	CBLV
1.000	-2.021	1.0557	0.0230	-0.0280	.00110	.65250	569.80000			.00070
1.000	-2.021	1.0557	-0.0280	-0.0280	-0.0280	.64960	569.80000			-0.00290
1.000	-2.021	1.0557	0.0230	-0.0280	.01120	.64970	569.80000			-0.00510
1.000	-2.021	1.0557	-0.0280	-0.0280	.01190	.64920	569.80000			-0.00390
1.000	-2.021	1.0557	0.0230	-0.0280	.01640	.64690	569.80000			-0.00370
1.000	-2.021	1.0557	-0.0280	-0.0280	.02110	.64740	569.80000			-0.01110
1.000	-2.021	1.0557	0.0230	-0.0280	.02560	.64690	569.80000			-0.01330
1.000	-2.021	1.0557	-0.0280	-0.0280	.03110	.64520	569.80000			-0.02100
1.000	-2.021	1.0557	0.0230	-0.0280	.03370	.64460	569.80000			-0.02110
1.000	-2.021	1.0557	-0.0280	-0.0280	.03246	.64037	569.80000			-0.05168

GRADIENT INTERVAL = 2.75 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	WIND	CY	CYN	CBL	CYV	CYM	KCP/L	Q	CBLV
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64930	569.80000			.00120
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64670	569.80000			-0.00210
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64530	569.80000			-0.00350
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64490	569.80000			-0.00710
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64410	569.80000			-0.00870
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64190	569.80000			-0.01220
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64000	569.80000			-0.01560
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64040	569.80000			-0.01890
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64210	569.80000			-0.02110
2.002	-5.430	1.0586	-0.0360	-0.0360	-0.0360	.64085	569.80000			-0.00166

ARC 97-747 QAS38 B C M F W V MOM. RM/L

(AER034) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 90-FT. ZMRP = 32.5016 IN.
 LREF = 14.2440 IN. ZMRP = .0000 IN.
 REF = 28.1924 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .500 BDFLAP = -11.700
 SPCBRK = 55.000 RUDDER = -25.000
 ELEV-L = .500 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RM/L = 2.74 --ADIANT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFO	CY	CYN	CBL	CYV	CYRV	XCF/L	θ	CBLV
1.000	7.177	.03820	.06470	.01410	-.00690	.01050	-.00170	1.06600	590.10000	.00230
1.000	-3.110	.04370	.02810	.01640	-.00840	.00990	.00590	1.07500	590.10000	-.00270
1.000	-1.094	.04640	-.00780	.01800	-.00990	-.02120	.01280	1.06700	590.10000	-.00730
1.000	-.023	.04660	-.02490	.01840	-.01030	-.02850	.01810	1.09800	590.10000	-.00950
1.000	1.009	.04710	-.04300	.01850	-.01110	-.03760	.01990	1.10400	590.10000	-.01200
1.000	3.072	.04760	-.07830	.01880	-.01200	-.05110	.02810	1.17100	590.10000	-.01630
1.000	5.139	.04760	-.11290	.01850	-.01340	-.06570	.03260	1.18600	590.10000	-.02760
1.000	6.105	.04730	-.15550	.01850	-.01420	-.07540	.03860	1.20300	590.10000	-.02310
	GRADIENT	.00060	-.01720	.00037	-.00037	-.00738	.00320	.01480	-.05000	.00221

RUN NO. 87/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFO	CY	CYN	CBL	CYV	CYRV	XCF/L	θ	CBLV
2.002	-5.415	-.03300	.04730	.02660	-.00030	-.02890	.01210	.67830	569.10000	-.00600
2.002	-3.371	-.02850	.01820	.02170	-.00350	-.02800	.01350	.64830	569.10000	-.00700
2.002	-1.328	-.02720	-.05660	.01500	-.00560	-.02460	.01290	.64570	569.10000	-.00710
2.002	-.310	-.02750	-.01410	.01270	-.00670	-.02220	.01220	.64590	569.10000	-.00700
2.002	.715	-.02770	-.02940	.00630	-.00780	-.02030	.01170	.64590	569.10000	-.00690
2.002	2.756	-.02990	-.04940	.00230	-.00940	-.01340	.00960	.64700	569.10000	-.00660
2.002	4.797	-.03370	-.07250	-.00310	-.01220	-.00910	.00840	.64870	569.10000	-.00610
2.002	6.839	-.03980	-.10180	-.00880	-.01520	-.00960	.00840	.65150	569.10000	-.00650
2.002	8.886	-.03870	-.13590	-.01140	-.01890	-.01520	.01090	.65110	569.10000	-.00820
	GRADIENT	-.00067	-.01095	-.00311	-.00106	-.00249	-.00067	.00031	.00000	.00014



9 147 0433B B C M F W1 V MOM. RN/L

(AEK035) (12 MAR 74)

REFERENCED DATA

BREF = 2.4210 39.F. YRP = 32.3010 IN.
 LREF = 14.2445 IN. YRRP = .0000 IN.
 BRFF = 26.1004 IN. Z402 = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 ATLRON = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 76/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWC	CY	CYN	CBL	CYV	C:INV	XCP/L	Q	CBLV
1.601	-5.174	.01260	.07860	.00950	-.00190	.02430	-.00930	.85180	589.70000	.00720
1.601	-3.155	-.01300	.34200	.00760	-.00340	.00940	-.00230	.86450	589.70000	.00730
1.601	-1.040	.01000	.00630	.00930	-.00510	-.00675	.00490	.88590	589.70000	.00740
1.601	-.501	.01830	-.01140	.01000	-.00570	-.01600	.00890	.89470	589.70000	-.00510
1.601	1.012	.01910	-.02930	.01060	-.00640	-.02230	.01190	.90730	589.70000	-.00710
1.601	5.083	.01960	-.05480	1.110	-.00760	-.03740	.01970	.93860	589.70000	-.0170
1.601	5.139	.01940	-.03910	.1140	-.00890	-.03320	.02460	.97140	589.70000	-.01630
1.601	6.165	.01930	-.11750	.03150	-.00980	-.06130	.02940	1.01300	589.70000	-.01870
	GRADIENT	.00061	.01725	.00057	-.00067	-.00756	.00339	.01181	.00000	-.00226

RUN NO. 71/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWC	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.543	-.00595	.07920	.00910	-.00140	.02430	-.00960	.55590	566.90000	.00720
2.002	-3.477	-.00170	.54370	.00900	-.00230	.01100	-.00320	.60940	566.90000	.00280
2.002	-1.413	.00170	.00600	.00840	-.00360	-.00270	.00290	.65420	566.90000	-.00140
2.002	-.381	.00190	-.01120	.00820	-.00410	-.01030	.00620	.65980	566.90000	-.00360
2.002	.654	.00290	-.02910	.00810	-.00470	-.01730	.00940	.67350	566.90000	-.00570
2.002	2.709	.00300	-.05420	.00850	-.00610	-.03210	.01600	.67560	566.90000	-.01030
2.002	4.774	.00160	-.10200	.01920	-.00790	-.04710	.02290	.66000	566.90000	-.01490
2.002	5.799	-.00010	-.12060	.01070	-.00880	-.05580	.02670	.63130	566.90000	-.01720
	GRADIENT	.00037	-.01726	.00013	-.00065	-.00706	.00317	.00572	.00000	-.00215

ARC 97-747 QAS38 8 C M F MI V MOM. RN/L

(AEK036) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 25.000 RUCCER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 75/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMP/D	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLV
1.001	-2.050	-0.0480	.06770	.00910	.00200	.01530	-.00620	-.00620	.67210	590.30000	.00500
1.001	-3.016	-0.04520	.03740	.00890	-.00170	.00320	-.00040	-.00040	.66970	590.30000	.00110
1.001	-.992	-.04470	.00680	.00840	-.00380	-.00820	.00500	.00500	.66920	590.30000	-.00250
1.001	.022	-0.04470	-.00740	.00800	-.00450	-.01270	.00730	.00730	.66930	590.30000	-.00410
1.001	3.067	-.04410	-.02240	.00760	-.00500	-.01840	.00980	.00980	.66870	590.30000	-.00580
1.001	5.099	-0.04220	-.02180	.00630	-.00760	-.02080	.01900	.01900	.66780	590.30000	-.00930
1.001	6.112	-0.04290	-.08310	.00440	-.01020	-.03900	.01980	.01980	.66740	590.30000	-.01270
1.001	7.135	-0.04190	-.09830	.00340	-.01170	-.04410	.02240	.02240	.66650	590.30000	-.01450
1.001	9.172	-0.04120	-.11520	.00270	-.01320	-.05140	.02540	.02540	.66600	590.30000	-.01650
GRADIENT			-.14930	.00120	-.01560	-.06130	.03020	.03020	.66560	590.30000	-.01980
			-.05033	-.00042	-.00093	-.00524	.00250	.00250	-.00031	-.00000	-.00170

RUN NO. 72/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMP/D	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLV
2.002	-5.421	-0.03770	.06850	.01230	.00020	.01590	-.00640	-.00640	.67020	565.70000	.00510
2.002	-3.398	-0.03600	.03650	.01000	-.00160	.00610	-.00180	-.00180	.66880	565.70000	.00180
2.002	-1.358	-0.03510	.00740	.00800	-.00280	-.00420	.00310	.00310	.66820	565.70000	-.00150
2.002	-.342	-0.03450	-.00720	.00680	-.00350	-.00870	.00530	.00530	.66770	565.70000	-.00300
2.002	.676	-0.03430	-.02190	.00570	-.00430	-.01410	.00770	.00770	.66740	565.70000	-.00450
2.002	2.700	-0.03250	-.05360	.00490	-.00610	-.02480	.01280	.01280	.66560	565.70000	-.00910
2.002	4.728	-0.03220	-.08490	.0030	-.00860	-.03560	.01800	.01800	.66520	565.70000	-.01170
2.002	5.747	-0.03260	-.10190	.00380	-.01040	-.04130	.02060	.02060	.66530	565.70000	-.01340
2.002	6.762	-0.03360	-.11810	.00350	-.01170	-.04640	.02280	.02280	.66620	565.70000	-.01490
2.002	6.792	-0.03560	-.15100	.00120	-.01410	-.05160	.02580	.02580	.66800	565.70000	-.01720
GRADIENT			-.01499	-.00074	-.00086	-.00514	.00243	.00243	-.00049	.00000	-.00166



PC 5 04538 B C M F W V MOM, RW/L (IAEK037) (12 MAR 74)

RECREATION DATA

PARAMETRIC DATA

BREF = 2.4210 2 FT, XMRP = 11.3010 IN, ALPHA = 20.000 ELEVOM = .000
 LREF = 14.2340 IN, XRF = 1.5000 IN, AIRLON = .000 BDFLAP = -11.700
 BREF = 26.1024 IN, XRF = 11.2500 IN, SPDBRK = 25.000 RUDDER = -10.000
 SCALE = .03000 SCALE, ELEV-L = .000 ELEV-R = .000

RUN NO. 74/ 5 RW/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFS	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	φ	CBLV
1.601	-3.642	-0.9170	.05700	.01960	.00210	-0.01650	.00570	.00570	.66150	590.30000	-0.00210
1.601	-2.998	-0.7150	.02800	.01490	.00030	-0.01590	.00850	.00850	.66160	590.30000	-0.00110
1.601	-0.914	-0.2010	.00600	.00100	.00010	-0.01340	.00670	.00670	.66140	590.30000	-0.00360
1.601	-0.574	-0.1370	.00390	.00060	.00010	-0.01290	.00590	.00590	.66160	590.30000	-0.00310
1.601	1.073	-0.0010	.00000	.00000	.00000	-0.01270	.00750	.00750	.66140	590.30000	-0.00200
1.601	3.132	-0.2670	.00400	.00050	.00000	-0.01000	.00780	.00780	.66170	590.30000	-0.00430
1.601	5.175	-0.5010	.00700	.00100	.00000	-0.00660	.00720	.00720	.66010	590.30000	-0.00410
1.601	8.272	-0.6950	.01000	.00150	.00000	-0.00490	.00700	.00700	.65990	590.30000	-0.00320
1.601	7.222	-0.6460	.00800	.00100	.00000	-0.00560	.00730	.00730	.65960	590.30000	-0.00360
1.601	9.272	-0.5650	.00600	.00070	.00000	-0.01040	.00750	.00750	.66170	590.30000	-0.00200
	GRADIENT	.00029	-0.0163	-0.0037	-0.0009	.00090	.00000	.00000	-0.0013	-0.0000	-0.0012

RUN NO. 74/ 3 RW/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFS	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	φ	CBLV
2.002	-5.413	-0.9000	.05740	.02150	.00270	-0.01050	.00670	.00670	.65620	565.90000	-0.00270
2.002	-3.384	-0.6810	.02870	.01580	.00010	-0.01750	.00710	.00710	.65640	565.90000	-0.00340
2.002	-1.329	-0.4000	.00680	.00090	.00010	-0.01220	.00600	.00600	.65530	565.90000	-0.00310
2.002	-0.304	-0.0610	.00010	.00010	.00000	-0.00980	.00330	.00330	.65530	565.90000	-0.00290
2.002	2.712	-0.0760	-0.0170	.00270	.00000	-0.00790	.00500	.00500	.65520	565.90000	-0.00290
2.002	2.737	-0.0470	-0.0410	.00000	.00000	-0.00400	.00440	.00440	.65510	565.90000	-0.00300
2.002	4.601	-0.0560	-0.0660	.00000	.00000	-0.00190	.00430	.00430	.65650	565.90000	-0.00340
2.002	5.815	-0.0200	-0.0800	.00000	.00000	-0.00250	.00470	.00470	.65720	565.90000	-0.00400
2.002	6.844	-0.0290	-0.0970	.00000	.00000	-0.00470	.00570	.00570	.65760	565.90000	-0.00480
2.002	6.887	-0.0190	-0.1310	.00000	.00000	-0.01000	.00640	.00640	.65720	565.90000	-0.00660
	GRADIENT	-0.0022	-0.0116	-0.0018	.0019	.00034	-0.0000	-0.0000	-0.0010	-0.0000	-0.0000

REFERENCE DATA

BREF = 2.4213 55.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLROM = .000 BDFLAP = -11.700
 SFCBRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 77/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
1.601	-1.494	.08150	.00990	.00090	-.00060	-.00040	-.00020	-.09610	584.90000	.00030
1.601	-.169	.07050	.00610	.00050	-.00040	.00000	-.00030	1.13200	584.90000	.00040
1.501	1.379	.05820	.00960	.00060	-.00060	.00000	-.00020	-.32760	584.90000	.00030
1.601	3.435	.04180	.00480	.00070	-.00070	-.00080	-.00010	.50340	584.90000	.00030
1.601	5.500	.02510	.00390	.00090	-.00040	-.00010	-.00030	.59060	584.90000	.00030
1.601	7.570	.01010	.00520	.00070	-.00000	-.00010	-.00020	.62100	584.90000	.00030
1.601	9.637	.00120	.00490	.00070	-.00030	.00020	-.00030	.63170	584.90000	.00030
1.601	12.730	-.01160	.00600	.00040	-.00010	-.00040	-.00010	.64050	584.90000	.00020
1.601	15.840	-.02460	.00590	.00050	.00010	.00050	-.00040	.64600	584.90000	.00040
1.601	18.940	-.03260	.00510	.00080	.00070	-.00090	.00000	.64720	584.90000	.00010
1.601	22.060	-.03680	.00400	.00100	.00100	-.00210	.00080	.64670	584.90000	-.00020
1.601	25.170	-.03910	.00190	.00260	.00110	-.00300	.00130	.64570	584.90000	-.00060
1.601	28.090	-.02800	.00250	.00110	.00110	-.00370	.00140	.64090	584.90000	-.00070
GRADIENT		-.00804	-.00024	.00004	-.00003	-.00011	.00003	-.14716	.00000	-.00001

RUN NO. 81/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYV	XCP/L	Q	CBLV
2.002	-1.443	.05450	.00790	-.00100	.00090	.00360	-.00180	.83310	575.40000	.00110
2.002	-.182	.04820	.00820	-.00120	.00090	.00380	-.00190	.98650	575.40000	.00130
2.002	1.351	.04040	.00940	-.00140	.00060	.00340	-.00180	-.56620	575.40000	.00110
2.002	3.414	.02970	.00790	-.00100	.00090	.00270	-.00160	.51420	575.40000	.00120
2.002	5.466	.01920	.00820	-.00070	.00070	.00300	-.00170	.59200	575.40000	.00120
2.002	7.517	.01110	.00830	-.00060	.00090	.00420	-.00200	.61690	575.40000	.00130
2.002	9.580	.00550	.00860	-.00020	.00060	.00270	-.00150	.62660	575.40000	.00110
2.002	12.670	.00000	.00800	.00010	.00060	.00260	-.00140	.63270	575.40000	.00100
2.002	15.770	-.00580	.00830	.00080	.00030	.00120	-.00080	.63540	575.40000	.00070
2.002	18.860	-.01240	.00750	.00160	.00040	-.00100	.00000	.63920	575.40000	.00010
2.002	21.990	-.01990	.00490	.00280	-.00020	-.00360	.00130	.64150	575.40000	-.00000
2.002	25.070	-.02690	.00480	.00320	-.00010	-.00430	.00170	.64290	575.40000	-.00100
2.002	28.980	-.03050	.00190	.00290	.00010	-.00430	.00190	.64260	575.40000	-.00120
GRADIENT		-.00511	.00014	-.00000	.00000	-.00020	.00005	-.14011	.00000	.00001

ARC 87-747 0A338 B C M F W I V MOM. RN/L

(AER039) (12 MAR 74)

REFERENCE DATA

PARAMETRIC DATA

BRFP = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0000 SCALE

ALPHA = .000 ELEVOM = .000
 ATLR0M = .000 BDFLAP = -11.700
 SPDRK = 85.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

P/R NO. 78/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLC	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLY
1.601	-5.197	.0610	.03270	-.00290	.03320	.03390	-.01820	1.13500	590.90000	.01240	
1.601	-3.102	.0510	.03360	-.00140	.02090	.02090	-.00990	1.14300	590.90000	.00690	
1.601	-1.030	.0410	.03000	.00180	.00000	.00770	-.00360	1.15300	590.90000	.00250	
1.601	-1.010	.0310	.02360	.00130	-.00070	-.00220	.00050	1.15400	590.90000	-.00010	
1.601	1.018	.0210	.01480	.00200	-.00120	-.00780	.00320	1.17600	590.90000	-.00210	
1.601	3.081	.0120	-.04860	.00320	-.00320	-.02320	.01000	1.20700	590.90000	-.00680	
1.601	5.147	.00320	-.08470	.00380	-.00420	-.03950	.01750	1.25800	590.90000	-.01160	
1.601	6.186	.00330	-.10430	.00340	-.00320	-.04880	.02180	1.24300	590.90000	-.01430	
1.601	GRADIENT	.00011	-.00007	.00039	-.00058	-.00717	.00023	.01043	-.00000	-.00222	

P/R NO. 32/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFLC	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	Q	CBLY
2.002	-5.544	.04200	.10100	-.00070	.00390	.04230	-.01960	.96650	575.10000	.01320	
2.002	-3.471	.04540	.06010	.00050	.00120	.02390	-.01130	.98970	575.10000	.00790	
2.002	-1.414	.04740	.02370	.00190	.00070	.01130	-.00520	.99410	575.10000	.00340	
2.002	-.386	.04750	.00600	.00120	.00000	.00190	-.00110	1.00200	575.10000	-.00080	
2.002	.656	.04760	-.01350	.00140	-.00100	-.00630	.00260	1.01600	575.10000	-.00180	
2.002	2.722	.04760	-.04940	.00220	-.00250	-.02170	.00950	1.01100	575.10000	-.00660	
2.002	4.772	.04440	-.08880	.00420	-.00460	-.03830	.01730	1.03200	575.10000	-.01160	
2.002	5.811	.04160	-.10930	.00510	-.00570	-.04720	.02150	1.01300	575.10000	-.01420	
2.002	GRADIENT	-.00011	-.01800	.00043	-.00082	-.00764	.00049	.00495	.00000	-.00238	

REFERENCE DATA

BREF = 2.4210 96.FT. YMRP = 32.3810 IM.
 LBREF = 14.2445 IM. YMRP = .0000 IM.
 BREF = 28.1091 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

ALPHA = 15.000 ELEVOM = .000
 AIRLROM = .500 BDFLAP = -11.700
 SFDPRK = 85.000 RUCDER = .000
 ELEV-L = .000 ELEV-H = .000

PARAMETRIC DATA

RUN NO. 79/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVY	CYN	YCP/L	Q	CBLV
1.001	-5.043	-0.0340	.02270	.00070	.00890	.02980	-.01450	.63560	589.10000	.00990
1.001	-3.016	-0.0030	.05060	.00070	.00300	.01050	-.00880	.63100	589.10000	.00600
1.001	-0.987	-0.0100	.02010	.00070	.00550	.00560	-.00300	.63500	589.10000	.00210
1.001	.033	-0.0140	.02490	.00090	-.00020	-.00060	-.00070	.63190	589.10000	.00020
1.001	1.751	-0.0180	-.01000	.00020	-.00100	-.00700	.00260	.63400	589.10000	-.00160
1.001	3.075	-0.0070	-.04140	-.00060	-.00360	-.01730	.00790	.63310	589.10000	-.00530
1.001	5.110	-0.0050	-.07250	-.00190	-.00660	-.02940	.01370	.63300	589.10000	-.00930
1.001	6.126	-0.0020	-.08960	-.00270	-.00820	-.03460	.01630	.63300	589.10000	-.01100
1.001	7.154	-0.0000	-.10670	-.00290	-.01000	-.04320	.02010	.63310	589.10000	-.01340
1.001	9.169	-0.0040	-.14280	-.00360	-.01310	-.05310	.02610	.63360	589.10000	-.01730
	GRADIENT	-.00000	-.01510	-.00022	-.00100	-.00593	.00275	.00000	-.00000	-.00163

RUN NO. 83/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVY	CYN	YCP/L	Q	CBLV
2.002	-5.422	.00380	.08390	.00430	.00490	.02980	-.01460	.62880	579.90000	.01000
2.002	-3.383	.00470	.05240	.00310	.00270	.01980	-.00950	.62780	579.90000	.00640
2.002	-1.361	.00420	.01990	.00210	.00280	.00690	-.00330	.62830	579.90000	.00230
2.002	-0.342	.00420	.00420	.00120	.00030	.00020	-.00040	.62970	579.90000	.00030
2.002	.670	.00380	-.01070	.00060	-.00110	-.00510	.00220	.62870	579.90000	-.00140
2.002	2.710	.00450	-.04400	.00000	-.00340	-.01730	.00800	.62800	579.90000	-.00530
2.002	4.727	.00430	-.07630	.00000	-.00630	-.02960	.01400	.62820	579.90000	-.00930
2.002	5.743	.00420	-.09360	.00030	-.00810	-.03340	.01600	.62810	579.90000	-.01120
2.002	6.761	.00170	-.11230	.00040	-.00990	-.04190	.01300	.63100	579.90000	-.01320
2.002	8.000	-.00260	-.14320	-.00140	-.01270	-.04780	.02340	.63340	579.90000	-.01590
	GRADIENT	-.00000	-.01582	-.00040	-.00100	-.00601	.00209	.00000	-.00000	-.00192



ARC 97-747 QAS38 B C M F W I V MOM. RM/L

(AEK041) (12 MAR 74)

REFERENCE DATA

MREF = 2.4216 SG.FT. XRRP = 32.3010 IN. ALPHA = 20.000 ELEVOM = .000
 LREF = 14.2440 IN. YMRP = .0000 IN. AIRLON = .000 BOFLAP = -11.700
 BRREF = 20.1004 IN. ZMRP = 11.2500 IN. SPDBRK = 85.000 RUDDER = .000
 SCALE = .0300 SCALE ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 80/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	θ	CBLV
1.601	-3.049	-.03700	.07340	.01470	.00340	-.00650	-.00030	.64760	591.80000	.00160
1.601	-3.503	-.03500	.04450	.00970	.00320	-.00530	.00010	.64740	591.90000	.00000
1.601	-3.958	-.03400	.01850	.00400	.00150	-.00150	-.00030	.64700	591.80000	.00050
1.601	-3.970	-.03350	.00460	.00150	.00050	-.00160	.00030	.64710	591.80000	.00000
1.601	3.101	-.03350	-.00860	-.00070	-.00210	.00110	.00110	.64720	591.80000	-.00060
1.601	3.140	-.03390	-.03320	-.00660	-.00250	-.00040	.00160	.64730	591.80000	-.00140
1.601	5.170	-.03610	-.06170	-.01410	-.00490	.00530	.00040	.64740	591.80000	-.00140
1.601	6.207	-.03730	-.07410	-.01720	-.00610	.00590	.00040	.64790	591.80000	-.00150
1.601	7.222	-.03960	-.09010	-.02330	-.00730	.00590	.00060	.64800	591.80000	-.00170
1.601	9.289	-.04630	-.12830	-.02400	-.01050	.00080	.00320	.65160	591.80000	-.00330
	GRADIENT	-.00002	-.01299	-.00262	-.00093	.00069	.00029	-.00000	-.00000	-.00039

RUN NO. 84/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYNV	XCP/L	θ	CBLV
2.002	-3.416	-.02210	.06610	.01420	.00310	-.01410	.00350	.64320	579.90000	-.00060
2.002	-3.363	-.01800	.03960	.01180	.00280	-.01040	.00290	.64130	579.90000	-.00080
2.002	-1.323	-.01610	.01330	.00480	.00100	-.00460	.00130	.64040	579.90000	-.00040
2.002	-3.306	-.01580	.00390	.00110	-.00010	-.00220	.00060	.64030	579.90000	-.00030
2.002	3.729	-.01620	-.00860	-.00200	-.00140	.00050	.00030	.64050	579.90000	-.00040
2.002	2.750	-.01920	-.03080	-.00840	-.00370	.00460	-.00100	.64190	579.90000	-.00020
2.002	4.806	-.02270	-.05710	-.01260	-.00580	.00580	-.00080	.64360	579.90000	-.00030
2.002	5.831	-.02690	-.07260	-.01450	-.00890	.00590	-.00010	.64550	579.90000	-.00140
2.002	6.844	-.03150	-.09010	-.01560	-.01100	.00280	.00140	.64770	579.90000	-.00240
2.002	6.892	-.03610	-.12940	-.01630	-.01600	-.00730	.00630	.64990	579.90000	-.00540
	GRADIENT	-.00065	-.01165	-.00304	-.00118	.00213	-.00047	.00032	-.00000	-.00001

ARC 97-747 04538 B C M F W I V MOM. RM/L

(AER042) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 50. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1504 IN. ZMRP = 11.2590 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 10.000
 AILROM = 5.000 BDFLAP = -11.700
 SFDBRK = 53.000 RUCCER = .000
 ELEV-L = 15.000 ELEV-R = 5.000

RUN NO. 85/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
1.601	-1.482	.00500	.00680	-.00110	.00780	.00250	.00250	-.00110	.68050	598.10000	.00070
1.601	-.188	-.00460	.00620	-.00110	.00780	.00190	.00190	-.00100	.71160	598.10000	.00070
1.601	1.363	-.01550	.00560	-.00110	.00720	.00190	.00190	-.00080	.69470	598.10000	.00060
1.601	3.418	-.02950	.00620	-.00100	.00680	.00080	.00080	-.00050	.69090	598.10000	.00040
1.601	5.495	-.04530	.00720	-.00140	.00670	.00070	.00070	-.00040	.69060	598.10000	.00040
1.601	7.562	-.05850	.00820	-.00190	.00750	.00170	.00170	-.00030	.68890	598.10000	.00000
1.601	9.616	-.06980	.00760	-.00230	.00810	.00110	.00110	-.00050	.68670	598.10000	.00040
1.601	12.740	-.08270	.00750	-.00260	.00910	.00000	.00000	-.00020	.68220	598.10000	.00020
1.601	15.850	-.09820	.00960	-.00310	.00970	-.00050	-.00050	.00010	.67990	598.10000	.00010
1.601	18.960	-.10760	.00980	-.00340	.01030	-.00100	-.00100	.00020	.67630	598.10000	-.00010
1.601	22.080	-.11350	.00820	-.00330	.01040	-.00050	-.00050	.00120	.67230	598.10000	-.00060
1.601	25.210	-.11690	.00600	-.00250	.01120	-.00070	-.00070	.00150	.66860	598.10000	-.00080
1.601	29.080	-.11260	.00470	-.00320	.01160	-.00180	-.00180	.00120	.66320	598.10000	-.00080
GRADIENT			-.00013	-.00062	-.00022	-.00032	-.00032	.00012	.00043	.00000	-.00006

RUN NO. 86/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.492	-.00530	.00440	.00000	.00550	.00360	.00360	-.00150	.59000	586.00000	.00090
2.002	-.208	-.01060	.00400	-.00010	.00540	.00300	.00300	-.00130	2.37100	586.00000	.00080
2.002	1.335	-.01800	.00480	-.00030	.00530	.00220	.00220	-.00100	.73690	586.00000	.00070
2.002	3.397	-.02970	.00440	-.00030	.00490	.00130	.00130	-.00080	.70620	586.00000	.00060
2.002	5.449	-.03750	.00470	-.00050	.00500	.00160	.00160	-.00090	.69180	586.00000	.00060
2.002	7.521	-.04550	.00560	-.00080	.00500	.00210	.00210	-.00090	.68800	586.00000	.00060
2.002	9.565	-.05120	.00650	-.00110	.00550	.00160	.00160	-.00070	.68240	586.00000	.00050
2.002	12.650	-.05720	.00660	-.00160	.00590	.00080	.00080	-.00040	.67450	586.00000	.00030
2.002	15.770	-.06420	.00710	-.00220	.00630	.00020	.00020	-.00010	.67060	586.00000	.00020
2.002	18.870	-.07240	.00720	-.00230	.00740	-.00140	-.00140	.00050	.66760	586.00000	-.00020
2.002	21.970	-.08110	.00590	-.00270	.00770	-.00210	-.00210	.00080	.66590	586.00000	-.00050
2.002	25.100	-.09060	.00690	-.00310	.00670	-.00170	-.00170	.00090	.66490	586.00000	-.00060
2.002	28.960	-.10260	.00420	-.00320	.01080	-.00100	-.00100	.00080	.66390	586.00000	-.00060
GRADIENT			.00005	-.00007	-.00012	-.00047	-.00047	.00015	-.00000	.00000	-.00006

AFC 97-747 OAS3B B C M F VI V NOM. RM/L

(AER043) (18 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. THRP = 32.3510 IN.
 LREF = 14.2445 IN. THRP = .0000 IN.
 BREF = 20.1904 IN. THRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = 15.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

RUN NO. 88/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFC	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBV
1.601	-1.465	.0446	.00010	.00430	.02850	.00120	.00030	-.00030	.81750	592.70000	.00040
1.601	-1.193	.03480	.00080	.00370	.02220	.00080	-.00030	-.00030	1.07700	592.70000	.00040
1.601	1.334	.02470	.00130	.00330	.02170	.00050	-.00030	-.00030	.40670	592.70000	.00040
1.601	5.429	.00870	.00280	.00220	.02120	-.00010	-.00010	-.00010	.60990	592.70000	.00020
1.601	5.489	-.00680	.00320	.00120	.02150	-.00140	.00030	.00030	.64330	592.70000	.00050
1.601	7.562	-.02150	.00480	.00030	.02130	.00050	.00000	.00000	.65610	592.70000	.00020
1.601	9.618	-.03260	.00520	-.00040	.02070	-.00080	.00020	.00020	.66070	592.70000	.00050
1.601	12.730	-.04830	.00670	-.00150	.02140	-.00210	.00060	.00060	.66390	592.70000	-.00010
1.601	15.840	-.06180	.00890	-.00320	.02220	-.00170	.00050	.00050	.66440	592.70000	-.00020
1.601	18.950	-.07040	.01020	-.00400	.02350	-.00380	.00140	.00140	.66280	592.70000	-.00020
1.601	22.060	-.07470	.01020	-.00430	.02350	-.00380	.00140	.00140	.66520	592.70000	-.00070
1.601	25.180	-.07870	.01140	-.00500	.02390	-.00390	.00160	.00160	.65800	592.70000	-.00090
1.601	29.110	-.06930	.00880	-.00540	.02380	-.00280	.00140	.00140	.65230	592.70000	-.00090
GRADIENT			.00054	-.00042	-.00027	-.00026	.00009	.00009	-.07785	-.00000	-.00054

RUN NO. 89/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFC	CY	CYN	CBL	CYV	CYV	CYNV	XCP/L	Q	CBV
2.002	-1.495	.02300	.00820	-.00020	.01690	.00380	-.00160	-.00160	.73340	584.50000	.00180
2.002	-.801	.01690	.01010	-.00080	.01680	.00330	-.00170	-.00170	.81370	584.50000	.00120
2.002	1.341	.00980	.01110	-.00130	.01670	.00300	-.00160	-.00160	.49330	584.50000	.00130
2.002	3.397	-.00030	.01040	-.00180	.01630	.00370	-.00180	-.00180	.63360	584.50000	.00130
2.002	5.448	-.01000	.01030	-.00230	.01620	.00340	-.00170	-.00170	.65260	584.50000	.00120
2.002	7.500	-.01890	.01290	-.00300	.01640	.00230	-.00130	-.00130	.65880	584.50000	.00110
2.002	9.562	-.02520	.01260	-.00360	.01660	.00200	-.00120	-.00120	.65940	584.50000	.00100
2.002	12.660	-.03110	.01390	-.00430	.01720	.00190	-.00110	-.00110	.65710	584.50000	.00090
2.002	15.600	-.03790	.01390	-.00500	.01810	.00080	-.00060	-.00060	.65590	584.50000	.00060
2.002	18.480	-.04560	.01380	-.00500	.01900	-.00040	-.00010	-.00010	.65570	584.50000	.00030
2.002	21.950	-.05360	.01310	-.00560	.01980	-.00220	.00070	.00070	.65570	584.50000	-.00020
2.002	25.080	-.06240	.01230	-.00550	.02090	-.00290	.00110	.00110	.65570	584.50000	-.00030
2.002	28.990	-.07030	.00990	-.00590	.02330	-.00280	.00130	.00130	.65480	584.50000	-.00070
GRADIENT			.00043	-.00032	-.00012	.00008	-.00003	-.00003	-.03607	-.00000	.00002

REFERENCE DATA

REF = 2.4210 SQ.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 26.1304 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AILFOM = 15.000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

RUN NO. 91/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	θ	CBLV
1.600	-1.469	.07970	-.00920	.01820	.02050	.00210	-.00110	.83550	600.20000	.00070
1.600	-.194	.06950	-.00900	.01170	.02020	.00090	-.00070	.93900	600.20000	.00060
1.600	1.365	.05660	-.00740	.01080	.02010	.00070	-.00060	4.12500	600.20000	.00050
1.600	3.428	.04150	-.00690	.00980	.01970	.00100	-.00070	.47030	600.20000	.00050
1.600	5.488	.02650	-.00550	.00850	.01950	-.00070	-.00010	.56140	600.20000	.00020
1.600	7.526	.01400	-.00450	.00780	.01910	-.00070	-.00010	.61460	600.20000	.00020
1.600	9.608	.00180	-.00250	.00700	.01860	-.00060	-.00020	.63090	600.20000	.00030
1.600	12.710	-.01110	.00030	.00550	.01750	.00060	-.00050	.64060	600.20000	.00040
1.600	15.830	-.02540	.00670	.00190	.01790	-.00040	-.00010	.64680	600.20000	.00020
1.600	18.950	-.03210	.00670	.00170	.01890	-.00090	.00010	.64730	600.20000	.00010
1.600	22.090	-.03650	.00640	.00150	.01930	-.00240	.00070	.64680	600.20000	-.00030
1.600	25.180	-.04130	.00830	.00100	.01940	-.00440	.00160	.64660	600.20000	-.00060
1.600	29.110	-.02920	.01130	-.00130	.02000	-.00230	.00070	.64140	600.20000	-.00030
1.600	GRADIENT	-.00786	.00032	-.00050	-.00015	-.00019	.00007	.06333	-.50000	-.00004

RUN NO. 90/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	θ	CBLV
2.002	-1.459	.04780	.00010	.00770	.01560	.00200	-.00130	.73170	565.00000	.00090
2.002	-.198	.04150	.00030	.00680	.01510	.00320	-.00150	.85250	565.00000	.00150
2.002	1.357	.03410	.00030	.00640	.01490	.00240	-.00120	2.66400	565.00000	.00080
2.002	3.380	.02440	.00010	.00370	.01430	.00170	-.00090	.51180	565.00000	.00070
2.002	5.450	.01410	.00060	.00310	.01400	.00230	-.00110	.59930	565.00000	.00070
2.002	7.498	.00620	.00200	.00420	.01360	.00270	-.00110	.62300	565.00000	.00070
2.002	9.556	.00050	.00330	.00340	.01350	.00170	-.00080	.63210	565.00000	.00060
2.002	12.640	-.00390	.00700	.00190	.01340	.00170	-.00070	.63510	565.00000	.00050
2.002	15.730	-.00810	.00740	.00130	.01370	.00050	-.00020	.63810	565.00000	.00020
2.002	18.810	-.01440	.00740	.00090	.01420	-.00080	.00020	.64040	565.00000	.00000
2.002	21.950	-.02080	.00730	.00050	.01460	-.00260	.00090	.64210	565.00000	-.00040
2.002	25.060	-.02800	.00790	.00030	.01490	-.00250	.00100	.64150	565.00000	-.00060
2.002	28.940	-.03190	.00940	-.00190	.01590	-.00170	.00070	.64330	565.00000	-.00040
2.002	GRADIENT	-.00481	-.00001	-.00039	-.00025	-.00027	.00010	.02542	.00000	-.00005

REFERENCE DATA

SREF = 2.4819 SQ-FT. XMRP = 32.3010 IM.
 LREF = 14.2440 IN. YMRP = .0000 IM.
 RREF = 26.1004 IN. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AILROM = 5.000 BDFLAP = -11.700
 SPOBRK = 95.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -25.500

RUN NO. 95/ 0 RM/L = 2.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CVY	CYV	CYVV	XCP/L	Q	CBLV
1.800	-1.478	1.1830	-.00270	.00660	.00510	.00130	.00080	-.00080	.84680	598.40000	.00050
1.800	-.198	1.0830	-.00270	.00670	.00490	.00080	-.00060	-.00060	.91810	598.40000	.00040
1.800	1.327	0.9630	-.00230	.00640	.00440	.00070	-.00050	-.00050	1.17300	598.40000	.00040
1.800	3.403	0.8530	-.00320	.00630	.00450	-.00020	-.00020	-.00020	-1.19540	598.40000	.00030
1.800	5.480	0.6900	-.00330	.00580	.00430	-.00040	-.00040	-.00040	.45840	598.40000	.00020
1.800	7.572	0.5200	-.00370	.00550	.00430	.00080	-.00080	-.00080	.55050	598.40000	.00040
1.800	9.642	0.3940	-.00360	.00530	.00440	.00080	-.00080	-.00080	.58840	598.40000	.00030
1.800	12.720	0.2470	.00070	.00440	.00430	.00080	-.00080	-.00080	.61330	598.40000	.00050
1.800	15.830	0.1340	.00640	.00380	.00380	.00160	-.00160	-.00160	.62470	598.40000	.00050
1.800	18.920	0.0580	.00370	.00220	.00480	-.00140	-.00140	-.00140	.62880	598.40000	.00050
1.800	22.150	0.0350	.00420	.00320	.00480	-.00170	-.00170	-.00170	.63130	598.40000	.00050
1.800	25.160	0.0190	.00460	.00280	.00440	-.00350	-.00350	-.00350	.63200	598.40000	.00060
1.800	29.100	0.0140	.00730	.00070	.00450	-.00280	-.00280	-.00280	.62820	598.40000	.00050
GRADIENT		-.00775	-.00006	-.00006	-.00013	-.00029	-.00012	-.00012	-.13950	.00000	-.00004

RUN NO. 92/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWC	CY	CYN	CBL	CVY	CYV	CYVV	ACP/L	Q	CBLV
2.002	-1.478	0.7710	-.00280	.00520	.00460	.00130	.00050	-.00050	.81060	565.40000	.00030
2.002	-.209	0.6980	-.00290	.00520	.00430	.00140	-.00060	-.00060	.87400	565.40000	.00030
2.002	1.336	0.6310	-.00360	.00520	.00430	.00050	-.00030	-.00030	1.14700	565.40000	.00030
2.002	3.368	0.5240	-.00360	.00480	.00380	.00070	-.00030	-.00030	.09760	565.40000	.00020
2.002	5.464	0.4170	-.00430	.00450	.00360	-.00020	-.00020	-.00020	.50350	565.40000	.00050
2.002	7.520	0.3310	-.00490	.00420	.00340	-.00090	-.00090	-.00090	.57170	565.40000	.00020
2.002	9.322	0.2760	-.00230	.00370	.00320	.00060	-.00060	-.00060	.59590	565.40000	.00020
2.002	12.830	0.2360	-.00020	.00290	.00310	.00080	-.00080	-.00080	.61590	565.40000	.00020
2.002	15.750	0.1900	.00080	.00260	.00310	-.00060	-.00060	-.00060	.61940	565.40000	.00020
2.002	18.840	0.1400	.00040	.00240	.00290	-.00110	-.00110	-.00110	.62480	565.40000	.00020
2.002	21.950	0.0930	.00060	.00260	.00320	-.00170	-.00170	-.00170	.62830	565.40000	.00020
2.002	25.010	0.0370	.00120	.00170	.00260	-.00080	-.00080	-.00080	.63120	565.40000	.00020
2.002	28.950	0.0290	.00120	.00010	.00250	.00060	-.00060	-.00060	.63170	565.40000	.00020
GRADIENT		-.00502	-.00019	-.00008	-.00017	-.00016	-.00006	-.00006	-.13225	.00000	-.00002

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMP = 32.3010 IN. ALPHA = .005 ELEVOM = .000
 LREF = 14.2440 IN. YMP = .0000 IN. AIROM = .050 BDFLAP = -11.700
 BREF = 20.1204 IN. ZMP = 11.2300 IN. SPCBKA = 63.000 RUCOER = -10.000
 SCALE = .0500 SCALE ELEV-L = .005 ELEV-R = .000

RUN NO. 94/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	0	CBLV
1.001	-5.159	.06340	.08720	-.00090	.00130	.03400	-.01340	1.12000	583.70000	0	.01660
1.001	-3.103	.06760	.05120	.00170	.00000	.01580	-.00730	1.13500	583.70000	0	.00320
1.001	-1.042	.06650	.01660	.00300	-.00170	.00220	-.00590	1.14500	583.70000	0	.00090
1.001	-.012	.06790	.00010	.00380	-.00230	-.00330	.00240	1.17200	583.70000	0	-.00140
1.001	1.012	.06650	-.01710	.00430	-.00280	-.01280	.00560	1.15500	583.70000	0	-.00370
1.001	3.079	.06850	-.03370	.00330	-.00440	-.02810	.01260	1.15800	583.70000	0	-.00650
1.001	5.143	.06720	-.09050	.00360	-.00350	-.04560	.02030	1.15000	583.70000	0	-.01340
	GRADIENT	.05510	-.01691	.00059	-.00069	-.00712	.00322	.00384	-.00000	0	-.00222

RUN NO. 99/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFD	CY	CYN	CBL	CYV	CYV	CYV	XCP/L	0	CBLV
2.002	-5.549	.04080	.09620	.00030	.00220	.03530	-.01600	.96200	583.70000	0	.01100
2.003	-3.478	.04370	.05830	.00200	.00050	.02020	-.00870	.97700	583.70000	0	.00620
2.002	-1.718	.04780	.02270	.00330	-.00110	.00530	-.00190	.99750	583.70000	0	.00150
2.003	-.391	.04750	.00360	.00420	-.00220	-.00340	.00200	1.00100	583.70000	0	-.00110
2.003	.640	.04730	-.01530	.00310	-.00300	-.01250	.00590	.99080	583.70000	0	-.00360
2.003	2.700	.04750	-.03380	.00670	-.00470	-.02710	.01270	1.01200	583.70000	0	-.00840
2.002	4.766	.04420	-.09320	.00850	-.00660	-.04260	.01990	1.01000	583.70000	0	-.01320
	GRADIENT	-.05516	-.01863	.00080	-.00086	-.00767	.00348	.00376	-.00000	0	-.00236



REFERENCE DATA
 SREF = 2.4215 38. FT. IMRP = 32.3010 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1054 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA
 ALPHA = 10.000 ELEVOM = .000
 AIRLOM = .000 BOFLAP = -11.700
 SPOBRK = 65.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 957 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	θ	CBLV
1.001	-5.541	-.00415	.07670	.00410	.00390	.02340	-.01110	.63620	590.90000	.00780	
1.001	-3.515	-.00200	.04550	.00410	-.00140	.01280	-.00590	.63440	590.90000	.00420	
1.001	-.986	-.00260	.01450	.00380	-.00110	.00050	-.00010	.63500	590.90000	.00040	
1.001	.525	-.00290	-.00040	.00370	-.00190	-.00370	.00270	.63320	590.90000	-.00150	
1.001	1.544	-.00190	-.01780	.00380	-.00210	-.01160	.00550	.63430	590.90000	-.00330	
1.001	3.073	-.00130	-.04710	.00290	-.00350	-.02350	.01090	.63430	590.90000	-.00700	
1.001	5.097	-.00270	-.07750	.00130	-.00810	-.03440	.01630	.63500	590.90000	-.01000	
1.001	7.137	-.00220	-.11110	-.0000	-.01140	-.04610	.02200	.63450	590.90000	-.01460	
1.001	8.170	-.00330	-.14460	-.00150	-.01410	-.05930	.02820	.63370	590.90000	-.01860	
GRADIENT		.00005	-.01528	-.00010	-.00100	-.00589	.00276	-.00005	-.00000	-.00184	

RUN NO. 967 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CVY	CYV	CYNV	XCP/L	θ	CBLV
2.003	-5.417	.00270	.08040	.00310	.00440	.02400	-.01140	.62990	583.30000	.00810	
2.003	-3.377	.00430	.04910	.00390	.00230	.01430	-.00660	.62830	583.30000	.00470	
2.002	-1.359	.00430	.01830	.00340	.00010	.00210	-.00070	.62820	583.30000	.00000	
2.003	-.346	.00400	.00310	.00300	-.00100	-.00360	.00200	.62860	583.30000	-.00100	
2.003	.660	.00430	-.01160	.00300	-.00150	-.00520	.00470	.62820	583.30000	-.00200	
2.003	2.691	.00190	-.04460	.00330	-.00490	-.02270	.01100	.62700	583.30000	-.00690	
2.003	4.724	.00320	-.07950	.00410	-.00810	-.03320	.01630	.62740	583.30000	-.01070	
2.003	6.757	.00340	-.11670	.00380	-.01160	-.04630	.02230	.62910	583.30000	-.01460	
2.003	8.795	-.00080	-.15180	.00200	-.01440	-.05250	.02390	.63300	583.30000	-.01730	
GRADIENT		.00016	-.01382	.00003	-.00128	-.00592	.00284	-.00016	-.00000	-.00190	

ARC 97-747 Q4338 B C M F W1 V MOM. RM/L

(AEK048) (12 MAR 74)

REFERENCE DATA

9REF = 2.4210 88-FT. XMRP = 32.3010 IN.
 1REF = 14.2440 IN. XMRP = .0000 IN.
 9REF = 28.1004 IN. XMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 ALLROM = .000 BDFLAP = -11.700
 SPCBKK = 83.000 RUDECK = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 96/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
1.801	-5.046	-0.03670	-.06810	.01720	-.00410	-.01310	.00290	.64760	592.70000	-.00000
1.801	-3.501	-0.03430	-.03900	.01280	.00170	-.01140	.00330	.64670	592.70000	-.00100
1.801	-.954	-0.03440	-.01270	.00730	.00000	-.00900	.00330	.64680	592.70000	-.00160
1.801	.063	-0.03380	-.00320	.00550	-.00100	-.00860	.00350	.64730	592.70000	-.00210
1.801	1.091	-0.03640	-.01690	.00300	-.00230	-.00950	.00490	.64760	592.70000	-.00280
1.801	3.131	-0.03730	-.04130	-.00280	-.00440	-.00780	.00540	.64790	592.70000	-.00360
1.801	5.177	-0.03690	-.06730	-.01080	-.00650	-.00190	.00400	.64770	592.70000	-.00330
1.801	7.225	-0.03990	-.09530	-.01790	-.00850	.00260	.00250	.64890	592.70000	-.00280
1.801	9.282	-0.04520	-.13080	-.02300	-.01100	-.00310	.00470	.65110	592.70000	-.00410
	GRADIENT	-.00054	-.01323	-.00250	-.00101	.00050	.00039	.00022	-.00000	-.00044

RUN NO. 97/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	q	CBLV
2.002	-5.413	-0.02090	-.06040	.01860	-.00490	-.01570	.00490	.64270	583.70000	-.01190
2.002	-3.365	-0.01690	-.03470	.01330	.00230	-.01500	.00360	.64080	583.70000	-.0220
2.002	-1.322	-0.01510	-.01170	.00680	.00060	-.00940	.00410	.63990	583.70000	-.00020
2.002	-.307	-0.01720	-.00110	.00380	-.00070	-.00690	.00360	.64090	583.70000	-.00190
2.002	.714	-0.01800	-.01270	.00090	-.00020	-.00080	.00350	.64150	583.70000	-.00210
2.003	2.756	-0.02070	-.03500	-.00560	-.00430	.00000	.00180	.64260	583.70000	-.00170
2.002	4.800	-0.02400	-.05860	-.01030	-.00770	.00400	.00130	.64410	583.70000	-.00170
2.003	6.840	-0.03060	-.09070	-.01370	-.01190	.00100	.00240	.64720	583.70000	-.00290
2.003	8.886	-0.03320	-.12960	-.01930	-.01720	-.00790	.00660	.64840	583.70000	-.00370
	GRADIENT	-0.00099	-.01120	-.00292	-.00123	.00231	-.00056	.00046	.00000	-.00000



ARC 97-747 Q433B B C M F W V WOM. RN/L SEAL.EL

(AEK049) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 86.FT. YMRP = 32.3010 IM.
 LREF = 14.2445 IM. YMRP = .0000 IM.
 BREF = 28.1554 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = 15.000
 AIRLROM = .000 BOFLAP = 16.300
 SPDGRK = 95.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

PARAMETRIC DATA

RUN NO. 100/ C RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
1.601	-1.466	-.04310	.00510	.00070	.00010	.00200	-.00090	1.56800	590.60000	.00060
1.601	-.197	-.05290	.00660	.00060	.00020	.00070	-.00060	.89460	590.60000	.00060
1.601	1.351	-.06640	.00750	.00060	.00020	-.00090	-.00010	.79670	590.60000	.00030
1.601	3.413	-.08340	.00710	.00030	.00020	.00150	-.00080	.75630	590.60000	.00060
1.601	5.479	-.10070	.00750	.00010	.00050	.00020	-.00030	.73930	590.60000	.00040
1.601	7.544	-.11760	.00740	.00000	.00070	.00060	-.00040	.72960	590.60000	.00040
1.601	9.616	-.13150	.00760	-.00020	.00070	.00040	-.00040	.72200	590.60000	.00040
1.601	12.720	-.14970	.00820	-.00030	.00110	.00070	-.00050	.71300	590.60000	.00050
1.601	15.920	-.16640	.00840	-.00040	.00170	-.00010	-.00020	.70650	590.60000	.00040
1.601	18.930	-.18230	.00830	.00050	.00180	.00070	-.00040	.70050	590.60000	.00040
1.601	22.050	-.19260	.00760	.00030	.00180	-.00130	.00030	.69510	590.60000	.00050
1.601	25.170	-.20310	.00770	.00030	.00110	-.00190	.00070	.69060	590.60000	-.00030
1.601	29.090	-.21950	.00530	-.00010	.00170	-.00160	.00070	.68290	590.60000	-.00040
GRADIENT		-.00831	.00039	-.00008	.00002	-.00013	.00003	-.14560	.00000	-.00001

RUN NO. 101/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFWO	CY	CYN	CBL	CYV	CYNV	XCP/L	Q	CBLV
2.002	-1.470	-.04050	.00670	-.00090	.00080	.00470	-.00200	-1.59500	580.10000	.00130
2.002	-.213	-.04720	.00810	-.00090	.00090	.00300	-.00160	1.04800	580.10000	.00110
2.002	1.338	-.05570	.00890	-.00100	.00060	-.00360	-.00100	.82590	580.10000	.00120
2.002	3.389	-.06750	.00910	-.00100	.00070	.00260	-.00140	.76530	580.10000	.00110
2.002	5.443	-.07930	.00990	-.00110	.00100	.00290	-.00150	.74230	580.10000	.00110
2.002	7.498	-.08930	.00930	-.00120	.00110	.00380	-.00170	.72720	580.10000	.00120
2.002	9.553	-.09710	.00910	-.00130	.00120	.00350	-.00140	.71610	580.10000	.00100
2.002	12.650	-.10700	.01540	-.00140	.00190	.00250	-.00130	.70360	580.10000	.00100
2.002	15.750	-.11880	.01030	-.00110	.00230	.00160	-.00090	.69610	580.10000	.00070
2.002	18.850	-.13220	.00910	-.00040	.00190	-.00080	.00000	.69140	580.10000	.00030
2.002	21.950	-.14610	.00740	.00020	.00160	-.00260	.00070	.68840	580.10000	-.00020
2.002	25.050	-.16370	.00590	.00060	.00150	-.00220	.00090	.68680	580.10000	-.00040
2.002	28.970	-.18300	.00360	.00090	.00170	-.00390	.00160	.68460	580.10000	-.00090
GRADIENT		-.00556	.00047	-.00002	-.00004	-.00034	.00010	-.38178	.00000	-.00003

ARC 97-747 04338 B C H F W I V WOK. RM/L SEAL-EL

(AEROS) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 50-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
 AILRON = .000 80FLAP = 16.300
 SPDRK = 55.000 RUCCER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 102/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	Q	CBLV
1.000	-1.471	.02510	.00200	.00180	-.00080	-.00100	-.00020	.75470	585.00000	.00010
1.000	-1.198	.01390	.00150	.00200	-.00120	.00080	-.00040	1.16200	585.00000	.00030
1.000	1.370	.00920	.00020	.00000	-.00080	-.00140	.00030	.63160	585.00000	.00000
1.000	3.421	-.01710	.00160	.00190	-.00110	-.00150	.00040	.67080	585.00000	.00000
1.000	5.463	-.03420	.00210	.00200	-.00090	-.00060	-.00020	.68050	585.00000	-.00020
1.000	7.525	-.04750	.00210	.00170	-.00040	-.00080	.00050	.68140	585.00000	.00000
1.000	9.597	-.05970	.00220	.00170	-.00040	-.00080	.00050	.67800	585.00000	.00000
1.000	12.730	-.07370	.00300	.00130	-.00080	-.00020	.00050	.67700	585.00000	.00000
1.000	15.810	-.08860	.00260	.00160	-.00060	-.00020	.00050	.67430	585.00000	-.00030
1.000	18.930	-.09980	.00190	.00190	-.00030	-.00180	.00070	.67150	585.00000	-.00060
1.000	22.040	-.10790	.00110	.00240	-.00040	-.00210	.00090	.66830	585.00000	-.00100
1.000	25.150	-.11280	.00140	.00210	-.00060	-.00210	.00030	.66090	585.00000	-.00040
1.000	29.050	-.10090	.00160	.00090	-.00020	.00030	.00030	.65350	585.00000	-.00004
GRADIENT		-.00863	-.00007	.00002	-.00003	-.00025	.00009	-.05358	-.00000	

RUN NO. 103/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CLMFD	CY	CYN	CBL	CYV	CYNY	XCP/L	Q	CBLV
2.002	-1.472	.00650	.01000	.00020	.00030	.00400	-.00180	.66840	578.40000	.00130
2.002	-1.227	.00010	.00880	.00050	.00010	.00420	-.00200	.63460	578.40000	.00140
2.002	1.354	-.00890	.00930	.00060	.00010	.00440	-.00200	.70400	578.40000	.00140
2.002	3.576	-.01980	.00670	.00080	.00000	.00400	-.00180	.69050	578.40000	.00120
2.002	5.469	-.03070	.00630	.00100	-.00010	.00330	-.00160	.68750	578.40000	.00110
2.002	7.500	-.04010	.00810	.00120	.00000	.00360	-.00160	.68390	578.40000	.00110
2.002	9.546	-.04670	.00810	.00130	.00000	.00350	-.00130	.67940	578.40000	.00090
2.002	12.650	-.05330	.00860	.00140	.00000	.00140	-.00080	.67310	578.40000	.00060
2.002	15.770	-.06110	.00820	.00170	-.00030	-.00050	.00050	.66890	578.40000	.00020
2.002	18.840	-.06820	.00770	.00210	.00010	-.00200	.00050	.66620	578.40000	-.00010
2.002	19.860	-.07160	.00730	.00230	.00010	-.00270	.00080	.66590	578.40000	-.00030
2.002	21.960	-.07780	.00600	.00240	-.00020	-.00360	.00120	.66510	578.40000	-.00060
2.002	25.080	-.08610	.00500	.00250	-.00010	-.00370	.00150	.66450	578.40000	-.00080
2.002	28.970	-.09880	.00440	.00160	.00020	-.00330	.00150	.66330	578.40000	-.00080
GRADIENT		-.00543	-.00020	.00011	-.00005	.00000	.00001	.00890	.00000	-.00002



ARC 97-747 01538 B C M F W I V MON. RW/L

(08E001) (12 MAR 74)

REFERENCE DATA

SREF = 2.4219 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRF = 28.1904 IN. ZMRP = 11.2500 IN.
 SCALE = .0390 SCALE

BETA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = 22.500
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 1/ 0 RW/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	CHUR	CHLR	CHBF	CHUR	CHLR	CHBF
1.601	-1.514	-0.00190	-0.07760	.00140	.07900	-0.18180	-0.14360	-0.10240	-0.14100	-0.22120	-0.10240	-0.14100	-0.22120	598.40000	598.40000	598.40000
1.601	-1.146	-0.02210	-0.06390	-0.00460	.06130	-0.18130	-0.14140	-0.10190	-0.13870	-0.23080	-0.10190	-0.13870	-0.23080	598.40000	598.40000	598.40000
1.601	2.948	-0.02220	-0.03770	-0.01820	.01950	-0.17460	-0.13600	-0.17530	-0.13310	-0.25530	-0.17530	-0.13310	-0.25530	598.40000	598.40000	598.40000
1.601	6.046	-0.00070	-0.00780	-0.03220	-.02440	-0.16380	-0.12930	-0.16640	-0.12820	-0.28110	-0.16640	-0.12820	-0.28110	598.40000	598.40000	598.40000
1.601	9.146	-0.00050	-0.02320	-0.03980	-0.06300	-0.15780	-0.12500	-0.15840	-0.12390	-0.31680	-0.15840	-0.12390	-0.31680	598.40000	598.40000	598.40000
1.601	12.250	-0.00020	-0.05700	-0.04860	-0.10560	-0.15180	-0.12180	-0.15250	-0.12080	-0.35500	-0.15250	-0.12080	-0.35500	598.40000	598.40000	598.40000
1.601	15.360	-0.00080	-0.09130	-0.05880	-0.19010	-0.14430	-0.11950	-0.14440	-0.11880	-0.39340	-0.14440	-0.11880	-0.39340	598.40000	598.40000	598.40000
1.601	18.470	-0.00050	-0.10400	-0.06510	-0.16900	-0.14680	-0.11900	-0.14790	-0.12020	-0.40230	-0.14790	-0.12020	-0.40230	598.40000	598.40000	598.40000
1.601	19.400	-0.00050	-0.12360	-0.06770	-0.19330	-0.14360	-0.12010	-0.14460	-0.11850	-0.43040	-0.14460	-0.11850	-0.43040	598.40000	598.40000	598.40000
1.601	21.590	-0.00020	-0.13420	-0.07000	-0.20430	-0.14380	-0.11870	-0.14440	-0.11600	-0.43860	-0.14440	-0.11600	-0.43860	598.40000	598.40000	598.40000
1.601	24.700	-0.00050	-0.15420	-0.07540	-0.22960	-0.14320	-0.11320	-0.14240	-0.10840	-0.46470	-0.14240	-0.10840	-0.46470	598.40000	598.40000	598.40000
1.601	27.820	-0.00020	-0.17340	-0.08230	-0.26080	-0.14310	-0.10110	-0.14270	-0.10440	-0.49460	-0.14270	-0.10440	-0.49460	598.40000	598.40000	598.40000
GRADIENT		-0.00006	-0.00897	-0.00439	-0.01336	-0.01171	-0.00171	.00168	-0.01178	-0.00769	.00168	-0.01178	-0.00769	.00000	.00000	.00000

RUN NO. 2/ 0 RW/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	CHUR	CHLR	CHBF	CHUR	CHLR	CHBF
2.002	-1.505	-0.00330	-0.05200	.00160	.03350	-0.15710	-0.12330	-0.15750	-0.12150	-0.18940	-0.15750	-0.12150	-0.18940	588.90000	588.90000	588.90000
2.002	-1.162	-0.00310	-0.04110	-0.00370	.03740	-0.15680	-0.12360	-0.15740	-0.11980	-0.19720	-0.15740	-0.11980	-0.19720	588.90000	588.90000	588.90000
2.002	2.925	-0.00250	-0.01490	-0.01570	-.00080	-0.15290	-0.11860	-0.15380	-0.11530	-0.21380	-0.15380	-0.11530	-0.21380	588.90000	588.90000	588.90000
2.002	6.010	-0.00210	-0.01250	-0.02560	-.03810	-0.14620	-0.11330	-0.14760	-0.11180	-0.25110	-0.14760	-0.11180	-0.25110	588.90000	588.90000	588.90000
2.002	9.097	-0.00110	-0.04090	-0.03490	-0.07570	-0.13910	-0.11010	-0.14050	-0.10750	-0.28570	-0.14050	-0.10750	-0.28570	588.90000	588.90000	588.90000
2.002	12.190	-0.00020	-0.06510	-0.04330	-0.10840	-0.13190	-0.10480	-0.13350	-0.10350	-0.32010	-0.13350	-0.10350	-0.32010	588.90000	588.90000	588.90000
2.002	15.300	-0.00010	-0.08700	-0.05120	-0.13820	-0.12720	-0.10130	-0.12810	-0.10050	-0.35440	-0.12810	-0.10050	-0.35440	588.90000	588.90000	588.90000
2.002	18.390	-0.00020	-0.10660	-0.05810	-0.16670	-0.12190	-0.09000	-0.12330	-0.09480	-0.39380	-0.12330	-0.09480	-0.39380	588.90000	588.90000	588.90000
2.002	21.500	-0.00010	-0.13120	-0.06590	-0.19710	-0.11490	-0.07640	-0.11630	-0.08280	-0.44060	-0.11630	-0.08280	-0.44060	588.90000	588.90000	588.90000
2.002	24.590	-0.01150	-0.15480	-0.07370	-0.22850	-0.10440	-0.05930	-0.10930	-0.06600	-0.48640	-0.10930	-0.06600	-0.48640	588.90000	588.90000	588.90000
2.002	27.700	-0.00000	-0.17020	-0.07870	-0.24890	-0.08570	-0.04480	-0.09360	-0.04600	-0.52550	-0.09360	-0.04600	-0.52550	588.90000	588.90000	588.90000
GRADIENT		-0.00018	-0.00839	-0.00390	-0.01230	-0.01000	.00153	.00089	-0.01141	-0.00728	.00089	-0.01141	-0.00728	.00000	.00000	.00000

REFERENCE DATA

SREF = 2.4210 98.FT. XMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

RUN NO. 3/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELLVOM = -10.000
 AILROM = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -10.000 ELEV-R = -10.000

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLP	CHBF	Q
1.601	-1.493	-0.0450	.17960	.24430	.22390	-1.1790	-1.1910	-1.1760	-1.13490	.03130	590.00000
1.601	-1.146	-0.0470	.16670	.03790	.20370	-1.1750	-1.1710	-1.1740	-1.13280	.02940	590.00000
1.601	2.948	-0.0390	.14120	.02370	.16490	-1.1730	-1.1900	-1.17040	-1.12790	.02300	590.00000
1.601	6.048	-0.0300	.11390	.00990	.12280	-1.1690	-1.2500	-1.16000	-1.12290	.01550	590.00000
1.601	9.174	-0.0320	.08080	-0.00360	.07720	-1.1430	-1.2040	-1.15300	-1.11860	.00180	590.00000
1.601	12.250	-0.0350	.03780	-0.1610	.02170	-1.1480	-1.1750	-1.14680	-1.11540	-0.1020	590.00000
1.601	15.360	-0.0250	-0.0140	-0.02550	-0.02690	-1.1430	-1.1140	-1.14230	-1.11360	-0.02540	590.00000
1.601	18.480	-0.0300	-0.0340	-0.03390	-0.06770	-1.1370	-1.1450	-1.13660	-1.11200	-0.04000	590.00000
1.601	21.590	-0.02600	-0.06270	-0.04100	-0.10370	-1.1330	-1.1030	-1.13100	-1.10140	-0.05460	590.00000
1.601	24.710	-0.0300	-0.05180	-0.04700	-0.13880	-1.1300	-0.9170	-1.12910	-0.99590	-0.07430	590.00000
1.601	27.820	-0.03800	-0.08990	-0.04650	-0.12630	-1.13760	-0.86730	-1.13980	-0.99390	-0.09030	590.00000
GRADIENT		.00016	-0.02857	-0.00458	-0.01315	.00149	.00187	.00162	.00158	-0.00190	.00000

RUN NO. 4/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLP	CHBF	Q
2.002	-1.928	-0.0900	.13470	.03200	.16670	-1.15260	-1.1220	-1.14980	-1.11590	.01550	585.20000
2.002	-1.155	-0.0570	.12220	.02670	.14890	-1.15320	-1.11950	-1.15180	-1.11530	.01400	585.20000
2.002	2.928	-0.0415	.09750	.01460	.11210	-1.14920	-1.11470	-1.14860	-1.11130	.00780	585.20000
2.002	6.020	-0.0460	.06400	.00430	.06820	-1.14250	-1.1130	-1.14160	-1.10750	.00300	585.20000
2.002	9.103	-0.0350	.03100	-0.00300	.02550	-1.13450	-1.10690	-1.13410	-1.10370	-0.04460	585.20000
2.002	12.190	-0.0060	.00580	-0.01370	-0.00790	-1.12630	-1.10140	-1.12690	-1.10020	-0.1530	585.20000
2.002	15.300	-0.0150	-0.01510	-0.01300	-0.03640	-1.1250	-1.09800	-1.12200	-0.9750	-0.3230	585.20000
2.002	18.450	-0.0350	-0.00590	-0.09640	-0.09640	-1.11940	-0.97380	-1.11000	-0.97970	-0.06680	585.20000
2.002	21.620	-0.0820	-0.08470	-0.04190	-0.12660	-0.9710	-0.81240	-0.9960	-0.86110	-0.06630	585.20000
2.002	24.710	-0.0480	-0.09820	-0.04300	-0.14320	-0.9740	-0.84370	-1.06410	-0.94080	-0.15010	585.20000
GRADIENT		.00100	-0.06829	-0.00391	-0.01220	.00085	.00166	.00545	.00108	-0.0178	.00000

ARC 87-747 O. 538 B C W F W I V MOM. RM/L (BEK003) (12 MAR 74)

REFERENCE DATA

SREF = 2.4510 SA.FT. KMPF = 32.3010 IM.
 LFCG = 14.2840 IM. YPPP = .5000 IM.
 BPCF = 28.1004 IM. ZMPP = 1.12500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

SFTV = .000 ELEVOM = 15.000
 AILROM = .500 BDFLAP = -11.700
 SPDPRK = 95.500 RUDSER = .000
 ELEV-L = 15.000 ELEV-P = 15.000

RUN NO. 10/ 5 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CMBF	Q
1.001	-1.485	-0.0370	-0.0650	-0.0610	-0.1800	-0.1830	-0.13810	-0.18020	-0.13440	.00030	587.60010
1.001	-1.185	-0.0420	-0.0630	-0.0670	-0.1270	-0.1720	-0.13620	-0.17900	-0.13210	-.00280	587.60700
1.001	1.367	-0.0450	-0.0830	-0.0700	-0.1820	-0.1760	-0.13690	-0.17640	-0.12960	-.00750	587.60000
1.001	3.424	-0.0450	-0.0780	-0.0780	-0.1580	-0.1720	-0.12840	-0.17130	-0.12570	-.01360	587.60000
1.001	5.498	-0.0390	-0.0300	-0.0320	-0.1820	-0.1670	-0.12310	-0.16520	-0.12270	-.01940	587.60000
1.001	7.557	-0.0380	-0.1260	-0.0910	-0.2180	-0.1690	-0.12210	-0.15950	-0.11970	-.02350	587.60000
1.001	9.625	-0.0320	-0.1460	-0.0980	-0.2450	-0.1560	-0.11890	-0.15450	-0.11690	-.04260	587.60000
1.001	12.720	-0.0330	-0.1820	-0.1140	-0.2940	-0.1500	-0.11610	-0.14910	-0.11400	-.05460	58.16000
1.001	15.830	-0.0120	-0.2100	-0.1230	-0.3370	-0.14610	-0.11420	-0.14570	-0.11350	-.07940	587.60000
1.001	18.940	-0.0330	-0.2400	-0.1310	-0.3710	-0.1400	-0.11140	-0.13970	-0.10870	-.09600	587.60000
1.001	22.050	-0.0340	-0.2620	-0.1360	-0.4000	-0.1330	-0.10130	-0.13420	-0.09740	-.09600	587.60000
1.001	25.170	-0.0110	-0.2910	-0.1450	-0.4320	-0.1300	-0.09390	-0.13740	-0.09610	-.11060	587.60000
1.001	28.110	-0.0070	-0.3060	-0.1480	-0.4490	-0.1400	-0.08340	-0.13510	-0.09110	-.13350	587.60000
GRADIENT		-0.0012	-0.0010	-0.0018	-0.0027	.00151	.00201	.00184	.00177	-.00287	.00000

RUN NO. 9/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CMBF	Q
2.002	-1.478	-0.0850	-0.0470	-0.0430	-0.0930	-0.16310	-0.12950	-0.15910	-0.11600	.00040	560.40000
2.002	-1.802	-0.0850	-0.0310	-0.0490	-0.1090	-0.16180	-0.11930	-0.15880	-0.11370	-.00140	560.40000
2.002	1.341	-0.0070	-0.0560	-0.0570	-0.1130	-0.15900	-0.11720	-0.15660	-0.11190	-.00470	560.40000
2.002	3.387	-0.0640	-0.0750	-0.0630	-0.1380	-0.15290	-0.11390	-0.15140	-0.10900	-.00970	560.40000
2.002	5.446	-0.0630	-0.0920	-0.0760	-0.1670	-0.14820	-0.11220	-0.14720	-0.10680	-.00940	560.40000
2.002	7.501	-0.0320	-0.1210	-0.0790	-0.1910	-0.14210	-0.10870	-0.14130	-0.10430	-.00270	560.40000
2.002	9.552	-0.0370	-0.1390	-0.0840	-0.2240	-0.13690	-0.10510	-0.13930	-0.10200	-.04290	560.40000
2.002	12.602	-0.0350	-0.1620	-0.0960	-0.2590	-0.13030	-0.10040	-0.12950	-0.09770	-.04290	560.40000
2.002	15.750	-0.0100	-0.1870	-0.1070	-0.2920	-0.12560	-0.09560	-0.12350	-0.09480	-.03690	560.40000
2.002	18.840	-0.0420	-0.2150	-0.1180	-0.3310	-0.12020	-0.09290	-0.12010	-0.09250	-.07350	560.40000
2.002	21.940	-0.0450	-0.2440	-0.1300	-0.3710	-0.11250	-0.08850	-0.11170	-0.09170	-.09170	560.40000
2.002	25.040	-0.0670	-0.2720	-0.1400	-0.4120	-0.10000	-0.08320	-0.10360	-0.08340	-.11840	560.40000
2.002	28.090	-0.0920	-0.2970	-0.1490	-0.4460	-0.07640	-0.07620	-0.08340	-0.07290	-.14500	560.40000
GRADIENT		-0.0045	-0.0054	-0.0038	-0.0042	.00212	.00137	.00162	.00141	-.00211	.00000

ARC 97-747 QAS36 B C M F W V MOM. RM/L

(BEK004) (1K MAR 74)

REFERENCE DATA

SREF = 2.4210 86.7T. ZMRP = 32.3010 IM.
 LBEP = 14.2449 IM. YMRP = .0000 IM.
 BRFP = 20.1904 IM. ZMRP = 11.2509 IM.
 SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
 AILRON = 5.000 BDFLAP = -11.700
 SPDBK = 35.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -5.000

RUN NO. 670 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-1.504	-.00270	.12870	-.02280	.19160	-.16680	-.13930	-.16740	-.13390	.01710	592.80000
1.600	-.198	-.00280	.11630	.01330	.13170	-.16610	-.13760	-.16710	-.13370	-.01380	592.80000
1.600	1.366	-.00260	.10410	-.00770	.11180	-.16480	-.13410	-.16310	-.13090	-.01060	592.80000
1.600	3.415	-.00190	.08440	-.00060	.08380	-.16260	-.13010	-.16310	-.12770	-.00700	592.80000
1.600	5.488	-.00190	.06530	-.00910	.03620	-.15940	-.12650	-.16000	-.12440	-.00290	592.80000
1.600	7.589	-.00080	.04170	-.01900	.02660	-.15620	-.12320	-.15680	-.12180	-.00500	592.80000
1.600	9.636	-.00090	.02100	-.02320	-.00220	-.15130	-.12020	-.15220	-.11900	-.01570	592.80000
1.600	12.716	-.00150	-.01990	-.03260	-.03150	-.14330	-.11790	-.14610	-.11620	-.02600	592.80000
1.600	15.850	.00080	-.03210	-.04200	-.09410	-.14110	-.11590	-.14220	-.11310	-.04300	592.80000
GRADIENT	.00018	-.00280	-.00475	-.01366	.00086	.00192	.00192	.00092	.00167	-.00204	.00000

RUN NO. 570 RM/L = 2.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.488	-.00580	.09330	-.01990	.10920	-.15670	-.12390	-.15670	-.12070	.00570	574.90000
2.002	-.203	-.00430	.08100	-.01790	.09190	-.15600	-.12210	-.15600	-.11910	-.00330	574.90000
2.002	1.523	-.00430	.06910	-.00560	.07490	-.15600	-.12060	-.15510	-.11720	-.00020	574.90000
2.002	3.373	-.00480	.05030	-.00180	.04840	-.15270	-.11780	-.15180	-.11420	-.00360	574.90000
2.002	5.441	-.00320	.02820	-.00910	.02000	-.14870	-.11330	-.14890	-.11180	-.00620	574.90000
2.002	7.493	-.00260	.02860	-.01540	-.00590	-.14370	-.11250	-.14390	-.10960	-.01110	574.90000
2.002	9.581	-.00210	-.01560	-.02110	-.03190	-.13930	-.10950	-.13800	-.10700	-.01610	574.90000
2.002	12.650	-.00090	-.03250	-.00990	-.06160	-.13760	-.10740	-.13140	-.10280	-.02720	574.90000
2.002	15.730	.00070	-.05410	-.03680	-.09040	-.12610	-.10540	-.12640	-.09970	-.04140	574.90000
2.002	18.860	.00090	-.07640	-.04430	-.11970	-.12220	-.10370	-.12240	-.09820	-.05950	574.90000
2.002	21.950	.00080	-.09780	-.04490	-.14730	-.11190	-.10310	-.11260	-.07790	-.07870	574.90000
2.002	25.070	.00080	-.12130	-.05670	-.17790	-.10920	-.10390	-.11220	-.05860	-.09970	574.90000
2.002	28.390	.00420	-.13350	-.05110	-.19460	-.10770	-.10210	-.10740	-.02910	-.12350	574.90000
GRADIENT	.00011	-.00280	-.00475	-.01366	.00086	.00192	.00192	.00092	.00167	-.00204	.00000



ARC 97-747 OA338 B C M F W1 V MOM. RN/L

(BER005) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AIRLON = 3.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = -3.000 ELEV-R = -15.000

RUN NO. 0/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.000	-1.460	-.00400	.22910	.03230	.20140	-.17520	-.13600	-.17480	-.13330	-.03030	591.00000
1.000	-.191	-.00340	.21740	.04690	.26430	-.17350	-.13460	-.17360	-.13100	.02850	591.00000
1.000	1.353	-.00290	-.20840	-.04190	-.23040	-.17030	-.13150	-.17070	-.12850	-.02630	591.00000
1.000	3.419	-.00280	.18770	.03280	.22030	-.16320	-.12780	-.16550	-.12320	.02110	591.00000
1.000	5.408	-.00170	.16480	.02040	.18310	-.15960	-.12440	-.15980	-.12230	.01490	591.00000
1.000	7.530	-.00140	.14820	.01320	.15940	-.15340	-.12160	-.15390	-.11960	-.00690	591.00000
1.000	9.616	-.00120	.11920	.00710	.12620	-.14860	-.11820	-.14900	-.11670	-.00090	591.00000
1.000	12.720	-.00170	.07560	-.00320	.06750	-.14300	-.11540	-.14340	-.11330	-.01480	591.00000
1.000	15.830	-.00050	.02300	-.01180	.01330	-.13810	-.11250	-.13900	-.11170	-.02960	591.00000
1.000	18.940	-.00360	-.00020	-.01910	-.01930	-.13140	-.10950	-.13120	-.10820	-.04560	591.00000
1.000	22.050	-.00460	-.02300	-.02620	-.03120	-.12750	-.09890	-.12740	-.09430	-.06180	591.00000
1.000	25.170	-.00200	-.00480	-.03210	-.02630	-.12630	-.08830	-.12690	-.08970	-.08330	591.00000
1.000	28.090	-.01090	-.00220	-.03240	-.03460	-.12990	-.08200	-.12630	-.07480	-.10370	591.00000
GRADIENT	.00024	-.00827	-.00393	-.00207	-.00219	.00206	.00186	.00204	.00163	-.00187	.00000

RUN NO. 7/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-1.468	-.01010	.16990	.04970	.21960	-.15960	-.12130	-.15580	-.11350	.01600	572.00000
2.002	-.208	-.00960	.15710	.04260	.19970	-.15860	-.12020	-.15560	-.11360	.01390	572.00000
2.002	1.337	-.00730	.14650	.03670	.18320	-.15600	-.11780	-.15420	-.11420	.01130	572.00000
2.002	3.330	-.00650	.13540	.02890	.15930	-.15240	-.11500	-.15170	-.10920	.00670	572.00000
2.002	5.445	-.00620	.10630	.02070	.12700	-.14860	-.11280	-.14820	-.10790	.00180	572.00000
2.002	7.504	-.00490	.08270	.01410	.09690	-.14260	-.10960	-.14280	-.10460	-.00370	572.00000
2.002	9.563	-.00300	.06100	.00850	.06690	-.13640	-.10560	-.13700	-.10190	-.00070	572.00000
2.002	12.660	-.00350	.03340	.00010	.03550	-.12910	-.10130	-.12950	-.09740	-.01690	572.00000
2.002	15.750	-.00190	.01590	-.00760	.02810	-.12490	-.09640	-.12520	-.09420	-.03550	572.00000
2.002	18.850	-.00440	-.00860	-.01630	-.02310	-.11910	-.08430	-.12010	-.08770	-.05230	572.00000
2.002	21.940	-.00610	-.03370	-.02360	-.03730	-.11030	-.06970	-.11170	-.07430	-.07030	572.00000
2.002	25.030	-.00770	-.00630	-.02910	-.03650	-.09780	-.05180	-.10150	-.05580	-.09070	572.00000
2.002	28.930	-.00660	-.00600	-.03210	-.03510	-.07930	-.02950	-.07960	-.02970	-.11050	572.00000
GRADIENT	.00080	-.00797	-.00420	-.00152	-.00121	.00143	.00126	.00087	.00191	-.00181	.00000

ARC 97-747 Q4338 B C M F W I V MON. RM/L

(BER006) (12 MAR 74)

REFERENCE DATA

REF = 2.4216 90.FT. YMRP = 32.3018 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRF = 28.1994 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 7.500
 AILRON = -7.500 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = 15.000

RUN NO. 12/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CMET	CHUA	CHLL	CHUR	CHLR	CMBF	Q
1.000	-1.481	-0.0450	-0.06140	-0.06140	-1.1290	-1.10830	-1.14120	-1.10660	-1.13650	-0.0960	588.60000
1.000	-1.109	-0.05190	-0.06490	-0.06770	-1.13260	-1.10420	-1.13090	-1.10400	-1.13420	-0.0710	588.60000
1.000	1.360	-0.05440	-0.06370	-0.07010	-1.13980	-1.10040	-1.13600	-1.17960	-1.13140	-0.0350	588.60000
1.000	3.423	-0.05440	-0.08420	-0.07780	-1.16200	-1.17480	-1.13140	-1.17450	-1.12750	-0.0130	588.60000
1.000	5.489	-0.05410	-1.0550	-0.08490	-1.18990	-1.16830	-1.12790	-1.16000	-1.12420	-0.0720	588.60000
1.000	7.564	-0.05320	-1.12810	-0.09200	-2.2010	-1.16290	-1.12420	-1.16240	-1.12160	-0.1610	588.60000
1.000	9.621	-0.05370	-1.14860	-0.09900	-2.4760	-1.15800	-1.12100	-1.15690	-1.11830	-0.2420	588.60000
1.000	12.725	-0.05560	-1.18340	-0.11190	-2.9500	-1.15360	-1.11920	-1.15180	-1.11550	-0.4020	588.60000
1.000	15.855	-0.0445	-2.21450	-1.12310	-3.3760	-1.14960	-1.11760	-1.14840	-1.11450	-0.5610	588.60000
1.000	18.940	-0.05920	-2.4520	-1.13110	-3.7120	-1.14080	-1.11400	-1.13870	-1.10790	-0.7200	588.60000
1.000	22.050	-0.1110	-2.6750	-1.13650	-4.0450	-1.14080	-1.10540	-1.13610	-1.09910	-0.8410	588.60000
1.000	25.170	-0.0000	-2.9350	-1.14070	-4.3560	-1.14250	-1.09570	-1.13970	-1.09870	-1.0150	588.60000
1.000	28.130	-0.1350	-2.9860	-1.14490	-4.6350	-1.14420	-1.08800	-1.13930	-1.08330	-1.12910	588.60000
GRADIENT		.00000	-0.00462	-0.00317	-0.00777	.00242	.00200	.00261	.00184	-0.02226	.00000

RUN NO. 11/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CMET	CHUA	CHLL	CHUR	CHLR	CMBF	Q
2.002	-1.460	-0.07830	-0.05340	-0.04550	-0.09890	-1.16430	-1.12570	-1.16100	-1.12070	-0.0470	565.80000
2.002	-1.202	-0.05800	-0.05630	-0.05140	-1.15670	-1.16310	-1.12410	-1.15940	-1.11890	-0.1270	565.80000
2.002	1.338	-0.06800	-0.06070	-0.05730	-1.11870	-1.15860	-1.12190	-1.15650	-1.11730	-0.0070	565.80000
2.002	3.391	-0.05660	-0.07670	-0.06400	-1.14070	-1.15250	-1.11860	-1.15570	-1.11390	-0.0560	565.80000
2.002	5.447	-0.05560	-0.09620	-0.07090	-1.16710	-1.14640	-1.11720	-1.14590	-1.11190	-0.1140	565.80000
2.002	7.498	-0.05370	-1.11700	-0.08330	-1.19240	-1.14170	-1.11550	-1.14590	-1.10940	-0.1370	565.80000
2.002	9.556	-0.05380	-1.13310	-0.08970	-2.2200	-1.13630	-1.11370	-1.13560	-1.10690	-0.2390	565.80000
2.002	12.650	-0.02240	-1.16310	-0.06630	-2.7640	-1.12070	-1.10720	-1.12930	-1.10270	-0.3440	565.80000
2.002	15.750	-0.02210	-1.18600	-0.05740	-2.8940	-1.12510	-1.10170	-1.12390	-1.09940	-0.5130	565.80000
2.002	18.850	-0.0400	-2.2110	-1.1900	-3.3390	-1.1190	-1.09120	-1.11970	-1.09160	-0.6740	565.80000
2.002	21.940	-0.0490	-2.4430	-1.1900	-3.7790	-1.11190	-1.07790	-1.11110	-1.07790	-0.8510	565.80000
2.002	25.040	-0.0670	-2.7130	-1.1640	-4.1170	-0.9980	-1.05860	-1.10120	-1.0590	-1.0500	565.80000
2.002	28.950	-0.0820	-2.9910	-1.14840	-4.4360	-0.9760	-1.03610	-1.08490	-1.03610	-1.13460	565.80000
GRADIENT		.00044	-0.00477	-0.00365	-0.00562	.00214	.00147	.00214	.00138	-0.02215	.00000

ARC 97-747 Q4338 B C M F W1 V HIGH RM/L

(BEK007) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98. FT. YMRP = 32.3010 IN.
 LREF = 14.2445 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 ALLROM = .000 BOFLAP = 16.500
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 14/ 0 RM/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-1.508	-0.0450	-0.08330	-0.05710	-0.14240	-0.18300	-0.13720	-0.18330	-0.13290	-0.20940	927.20000
1.001	-1.197	-0.0400	-0.08090	-0.06080	-0.14960	-0.18210	-0.13310	-0.18180	-0.13050	-0.21080	927.20000
1.001	1.398	-0.0580	-0.09340	-0.06620	-0.15960	-0.18060	-0.13260	-0.17930	-0.12790	-0.23260	927.20000
1.001	3.488	-0.0490	-0.10190	-0.07300	-0.17490	-0.17570	-0.12860	-0.17500	-0.12440	-0.25050	927.20000
1.001	5.595	-0.0470	-0.11010	-0.08140	-0.19950	-0.17000	-0.12340	-0.16940	-0.12130	-0.26860	927.20000
1.001	7.754	-0.0420	-0.11710	-0.08910	-0.22630	-0.16480	-0.12230	-0.16430	-0.11850	-0.29130	927.20000
1.001	9.810	-0.0400	-0.12240	-0.09830	-0.26070	-0.16020	-0.11950	-0.15980	-0.11590	-0.31300	927.20000
1.001	12.990	-0.0400	-0.12630	-0.10590	-0.30380	-0.15540	-0.11700	-0.15430	-0.11320	-0.33020	927.20000
1.001	16.160	-0.0370	-0.12820	-0.11240	-0.34560	-0.15120	-0.11560	-0.15140	-0.11150	-0.35010	927.20000
1.001	19.340	-0.0200	-0.24790	-0.13070	-0.37860	-0.14830	-0.11390	-0.14920	-0.10400	-0.35020	927.20000
1.001	22.530	-0.0270	-0.27200	-0.13630	-0.40820	-0.14800	-0.10460	-0.14600	-0.09900	-0.35020	927.20000
1.001	25.760	-0.0190	-0.30310	-0.14020	-0.44330	-0.14910	-0.09700	-0.14600	-0.09900	-0.35020	927.20000
1.001	29.750	-0.0190	-0.31270	-0.14340	-0.45620	-0.13950	-0.08110	-0.13410	-0.07610	-0.35020	927.20000
GRADIENT	-0.0011	-0.00331	-0.00321	-0.00633	-0.00633	-0.0159	-0.0172	-0.0170	-0.0169	-0.00829	.00000

RUN NO. 13/ 0 RM/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.510	-0.01000	-0.06740	-0.04270	-0.11010	-0.16800	-0.12370	-0.16410	-0.11680	-0.16160	865.30000
2.002	-2.116	-0.01000	-0.07090	-0.04730	-0.11820	-0.16710	-0.12250	-0.16330	-0.11330	-0.17020	865.30000
2.002	1.332	-0.01010	-0.07500	-0.05200	-0.12700	-0.16360	-0.12040	-0.16060	-0.11330	-0.18310	865.30000
2.002	3.407	-0.00960	-0.08620	-0.05940	-0.14360	-0.15880	-0.11740	-0.15620	-0.11040	-0.20030	865.30000
2.002	5.523	-0.00880	-0.10580	-0.06680	-0.17260	-0.15330	-0.11460	-0.15050	-0.10840	-0.21910	865.30000
2.002	7.601	-0.00770	-0.12240	-0.07510	-0.20050	-0.14720	-0.11140	-0.14330	-0.10560	-0.23560	865.30000
2.002	9.691	-0.00690	-0.14240	-0.08260	-0.22300	-0.14180	-0.10800	-0.14010	-0.10290	-0.25400	865.30000
2.002	12.840	-0.00620	-0.16630	-0.09440	-0.26070	-0.13530	-0.10360	-0.13360	-0.09950	-0.28610	865.30000
2.002	16.010	-0.00230	-0.19130	-0.10520	-0.29660	-0.13010	-0.09810	-0.12910	-0.09680	-0.32420	865.30000
2.002	19.170	-0.00570	-0.21610	-0.11720	-0.33330	-0.12320	-0.08610	-0.12370	-0.08920	-0.34940	865.30000
2.002	22.330	-0.00070	-0.24450	-0.12920	-0.37320	-0.12020	-0.07150	-0.11910	-0.07330	-0.38800	865.30000
2.002	25.500	-0.00330	-0.27610	-0.13950	-0.41370	-0.10470	-0.03270	-0.11540	-0.05230	-0.43500	865.30000
2.002	29.500	-0.00420	-0.30420	-0.14890	-0.45310	-0.07290	-0.02750	-0.07700	-0.02760	-0.48300	865.30000
GRADIENT	-0.0027	-0.00379	-0.00337	-0.00715	-0.00715	-0.0194	-0.0133	-0.0165	-0.0132	-0.00795	.00000

ARC 97-747 QAS38 B C M F W1 V NOM. RN/L

(BEK000) (12 MAR 74)

REFERENCE DATA

REF = 2.4218 90.FT. XMRP = 32.3018 IM.
 LREF = 14.2449 IM. YMRP = .0000 IM.
 BRF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

BETA = .000 ELEVOM = 19.000
 AIRLON = .000 BUFLAP = 16.300
 SPDWRK = 99.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 10/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CMEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF	€
1.000	-1.484	-0.0050	-0.0046	-0.0080	-0.1410	-0.1064	-0.1451	-0.1057	-0.1370	-0.2090	601.10000
1.000	-1.198	-0.0050	-0.0060	-0.0360	-0.1530	-0.1030	-0.1070	-0.1020	-0.1347	-0.2140	601.10000
1.000	1.360	-0.0050	-0.1020	-0.0680	-0.1710	-0.1050	-0.1360	-0.1790	-0.1320	-0.2230	601.10000
1.000	3.408	-0.0430	-0.1160	-0.0700	-0.1900	-0.1740	-0.1320	-0.1730	-0.1280	-0.2440	601.10000
1.000	5.472	-0.0540	-0.1390	-0.0860	-0.2250	-0.1600	-0.1280	-0.1670	-0.1250	-0.2610	601.10000
1.000	7.552	-0.0560	-0.1610	-0.0920	-0.2530	-0.1620	-0.1240	-0.1620	-0.1240	-0.2850	601.10000
1.000	9.628	-0.0300	-0.1820	-0.1000	-0.2820	-0.1700	-0.1220	-0.1510	-0.1190	-0.3080	601.10000
1.000	12.720	-0.0360	-0.2040	-0.1140	-0.3190	-0.1910	-0.1190	-0.1510	-0.1160	-0.3380	601.10000
1.000	15.865	-0.0220	-0.2280	-0.1250	-0.3610	-0.1480	-0.1180	-0.1480	-0.1160	-0.3720	601.10000
1.000	18.970	-0.0220	-0.2620	-0.1310	-0.3940	-0.1460	-0.1180	-0.1460	-0.1160	-0.4020	601.10000
1.000	22.080	-0.0050	-0.2860	-0.1370	-0.4240	-0.1450	-0.1140	-0.1440	-0.1070	-0.4320	601.10000
1.000	25.230	-0.0120	-0.3160	-0.1410	-0.4530	-0.1430	-0.1030	-0.1460	-0.1060	-0.4560	601.10000
1.000	29.140	-0.0020	-0.3160	-0.1450	-0.4620	-0.1460	-0.0920	-0.1460	-0.0950	-0.4850	601.10000
GRADIENT		.00026	-.00069	-.00334	-.01146	.00245	.00191	.00241	-.00173	-.00877	.00000

RUN NO. 17/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CMEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF	€
2.00E	-1.490	-0.1130	-0.0700	-0.0440	-0.1140	-0.1720	-0.1260	-0.1680	-0.1190	-0.1640	585.40000
2.00E	-1.209	-0.1260	-0.0780	-0.0480	-0.1270	-0.1710	-0.1260	-0.1670	-0.1180	-0.1730	585.40000
2.00E	1.335	-0.1120	-0.0890	-0.0540	-0.1450	-0.1690	-0.1230	-0.1630	-0.1160	-0.1850	585.40000
2.00E	3.389	-0.0190	-0.1080	-0.0630	-0.1680	-0.1620	-0.1190	-0.1580	-0.1120	-0.2030	585.40000
2.00E	5.440	-0.0090	-0.1240	-0.0680	-0.1940	-0.1560	-0.1170	-0.1530	-0.1110	-0.2230	585.40000
2.00E	7.489	-0.0060	-0.1430	-0.0710	-0.2200	-0.1490	-0.1140	-0.1470	-0.1080	-0.2410	585.40000
2.00E	9.538	-0.0070	-0.1620	-0.0840	-0.2440	-0.1460	-0.1100	-0.1420	-0.1020	-0.2620	585.40000
2.00E	12.680	-0.0060	-0.1820	-0.0950	-0.2760	-0.1370	-0.1030	-0.1340	-0.1010	-0.2950	585.40000
2.00E	15.750	-0.0060	-0.2030	-0.1070	-0.3140	-0.1300	-0.1010	-0.1280	-0.0970	-0.3280	585.40000
2.00E	18.860	-0.0020	-0.2270	-0.1190	-0.3520	-0.1250	-0.0970	-0.1240	-0.0990	-0.3700	585.40000
2.00E	21.960	-0.0090	-0.2620	-0.1300	-0.3910	-0.1190	-0.0930	-0.1180	-0.0960	-0.4120	585.40000
2.00E	25.060	-0.0080	-0.2950	-0.1410	-0.4320	-0.1080	-0.0830	-0.1070	-0.0910	-0.4590	585.40000
2.00E	28.970	-0.0470	-0.3160	-0.1510	-0.4750	-0.0960	-0.0710	-0.0980	-0.0860	-0.5090	585.40000
GRADIENT		.00018	-.00026	-.00393	-.01116	.00209	.00146	.00195	-.00144	-.00853	.00000

ARC 97-747 Q4338 B C M F W I Y LOW PH/L

(BEK009) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SQ.FT. IMRP = 32.3010 IM.
 SREF = 14.2440 IM. YMRP = .0000 IM.
 SREF = 23.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = 15.000
 ALLROM = .000 BDFLAP = 16.000
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 19/ 0 RM/L = 1.40 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CMRF	B
1.000	-1.406	.00120	-.00690	-.00290	-.14980	-.10200	-.14700	-.10290	-.14540	-.20370	200.60000
1.000	-.193	.00110	-.00540	-.00600	-.10140	-.17000	-.14460	-.10130	-.14310	-.21650	200.60000
1.000	1.324	.00110	-.10840	-.07050	-.17090	-.17460	-.14110	-.17600	-.14000	-.23340	200.60000
1.000	3.336	.00090	-.12060	-.07910	-.20500	-.16870	-.13670	-.16960	-.13660	-.25350	200.60000
1.000	5.395	.00220	-.14510	-.08070	-.23100	-.16230	-.13340	-.16440	-.13350	-.20160	200.60000
1.000	7.471	.00260	-.16430	-.09410	-.25830	-.15710	-.13150	-.15990	-.13150	-.31220	200.60000
1.000	9.444	.00270	-.18740	-.10180	-.28930	-.15130	-.12040	-.15430	-.12010	-.33420	200.60000
1.000	12.480	.00340	-.21900	-.11460	-.33440	-.14400	-.12490	-.14750	-.12520	-.36350	200.60000
1.000	15.340	.00270	-.24650	-.12260	-.37210	-.14100	-.12330	-.14430	-.12350	-.39390	200.60000
1.000	18.050	.00040	-.26040	-.13330	-.40310	-.14020	-.12260	-.14220	-.12100	-.42510	200.60000
1 70	21.040	-.00170	-.29500	-.13930	-.42920	-.13950	-.11920	-.14140	-.11560	-.44090	200.60000
1.000	24.090	.00220	-.31590	-.14360	-.45950	-.14240	-.11410	-.14540	-.11330	-.47110	200.60000
1.000	28.330	.00320	-.32170	-.14850	-.46820	-.13760	-.09330	-.14600	-.09330	-.49340	200.60000
	GRADIENT	-.00000	-.00000	-.00337	-.01167	.00246	.00216	.00283	.00184	-.01127	.00000

RUN NO. 20/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

WACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CMRF	B
2.002	-1.456	.00430	-.00910	-.03780	-.10690	-.15690	-.12640	-.16310	-.12410	-.17490	199.20000
2.002	-.201	.00320	-.07770	-.04330	-.12350	-.15330	-.12490	-.15950	-.12390	-.18370	199.20000
2.002	1.315	.00360	-.09120	-.05360	-.14480	-.15060	-.12360	-.15670	-.12100	-.20320	199.20000
2.002	3.336	.00210	-.10760	-.06210	-.16970	-.14830	-.11960	-.15190	-.11010	-.22150	199.20000
2.002	5.347	.00300	-.12420	-.07000	-.19420	-.14130	-.11710	-.14600	-.11600	-.24230	199.20000
2.002	7.371	.00450	-.14280	-.07780	-.22050	-.13780	-.11380	-.14220	-.11350	-.25620	199.20000
2.002	9.392	.00500	-.16100	-.08680	-.24980	-.13220	-.10970	-.13720	-.11040	-.27200	199.20000
2.002	12.410	.00570	-.18000	-.09900	-.28090	-.12410	-.10330	-.12930	-.10580	-.28980	199.20000
2.002	15.450	.00330	-.21310	-.11100	-.32410	-.12060	-.10400	-.12540	-.10250	-.30610	199.20000
2.002	18.480	.00440	-.23970	-.12310	-.36280	-.11560	-.09850	-.11900	-.09670	-.32940	199.20000
2.002	21.500	.00490	-.26810	-.13440	-.40230	-.11040	-.08350	-.11530	-.08160	-.42430	199.20000
2.002	24.340	.00000	-.29600	-.14510	-.44110	-.10220	-.07000	-.10950	-.06720	-.46310	199.20000
2.002	28.370	-.00240	-.32510	-.15590	-.47950	-.07830	-.04670	-.08220	-.03260	-.53060	199.20000
	GRADIENT	-.00030	-.00013	-.00556	-.01320	.00103	.00139	.00220	.00134	-.00989	.00000

ARC 97-747 Q4338 B C M F W V MOM. RM/L

(BEK010) (12 MAR 74)

REFERENCE DATA

REF * 2.4810 90-FT. ZMP = 32.3010 IN.
 LREF * 14.2440 IN. YMP = .0000 IN.
 REF * 20.1904 IN. ZMP = 11.2300 IN.
 SCALE * .0300 SCALE

RUN NO. 22/ 0 RM/L = 2.75 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMR	CMET	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMHF	Q
1.600	-1.539	-0.0370	0.0080	0.0180	0.0260	-0.10140	-0.13920	-0.10000	-0.13530	-0.10040	590.10000
1.600	-1.199	-0.0460	0.0690	-0.0420	0.0460	-0.17990	-0.13700	-0.17890	-0.13340	-0.10870	590.10000
1.600	1.343	-0.0470	0.0330	-0.0100	0.0440	-0.17320	-0.13430	-0.17610	-0.13070	-0.10990	590.10000
1.600	3.407	-0.0400	0.0390	-0.0190	0.0170	-0.17890	-0.13910	-0.17170	-0.12730	-0.21490	590.10000
1.600	5.519	-0.0360	0.0170	-0.0290	0.0180	-0.16680	-0.12590	-0.16570	-0.12340	-0.23330	590.10000
1.600	7.542	-0.0430	-0.0340	0.0340	-0.0410	-0.16130	-0.12300	-0.15940	-0.12030	-0.25620	590.10000
1.600	9.609	-0.0400	-0.2300	0.0410	-0.0610	-0.15680	-0.12010	-0.15460	-0.11730	-0.28290	590.10000
1.600	12.710	-0.0430	-0.6200	0.0490	-0.1170	-0.15100	-0.11730	-0.14930	-0.11460	-0.31360	590.10000
1.600	15.790	-0.0310	-0.9660	0.0500	-0.1570	-0.14710	-0.11640	-0.14610	-0.11430	-0.34730	590.10000
1.600	18.930	-0.0660	-1.2990	0.0620	-0.1820	-0.14480	-0.11730	-0.14330	-0.11240	-0.37870	590.10000
1.600	22.100	-0.0820	-1.5750	0.0760	-0.2330	-0.14280	-0.11700	-0.13980	-0.10190	-0.41110	590.10000
1.600	25.310	-0.1020	-1.8130	0.0930	-0.2640	-0.14220	-0.09830	-0.14130	-0.09900	-0.43760	590.10000
1.600	28.040	-0.1160	-1.8320	0.0690	-0.2040	-0.14310	-0.09870	-0.13670	-0.08360	-0.47740	590.10000
GRADIENT	0.0030	-0.0286	-0.0432	0.0174	0.0189	0.0172	0.0189	0.0172	0.0163	-0.00701	0.00000

RUN NO. 21/ 0 RM/L = 2.75 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CMR	CMET	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMHF	Q
2.000	-1.544	-0.0510	0.0310	0.0210	0.0360	-0.16160	-0.12060	-0.15940	-0.11770	-0.14030	563.00000
2.000	-1.200	-0.0430	0.0410	-0.0330	0.0310	-0.16010	-0.11900	-0.15830	-0.11610	-0.15610	563.00000
2.000	1.333	-0.0470	0.0290	-0.0310	0.0190	-0.15690	-0.11740	-0.15590	-0.11380	-0.16370	563.00000
2.000	3.380	-0.0410	0.0200	-0.0170	0.0050	-0.15200	-0.1170	-0.15170	-0.11000	-0.18060	563.00000
2.000	5.481	-0.0400	-0.0370	-0.0290	0.0160	-0.14730	-0.1170	-0.14680	-0.10870	-0.19910	563.00000
2.000	7.473	-0.0390	-0.0340	-0.0360	0.0170	-0.14330	-0.10340	-0.14150	-0.10640	-0.21910	563.00000
2.000	9.595	-0.0290	-0.0430	0.0370	-0.0780	-0.13620	-0.10560	-0.13610	-0.10300	-0.24050	563.00000
2.000	12.610	-0.0290	-0.0660	0.0430	-0.1040	-0.12860	-0.10560	-0.12920	-0.09930	-0.26390	563.00000
2.000	15.735	-0.0320	-0.0800	0.0440	-0.1050	-0.12340	-0.10330	-0.12340	-0.09650	-0.28900	563.00000
2.000	18.820	-0.0340	-0.1060	0.0480	-0.1080	-0.12100	-0.08490	-0.12140	-0.09310	-0.31720	563.00000
2.000	21.920	-0.0320	-0.1320	0.0660	-0.1070	-0.11400	-0.07160	-0.11460	-0.07610	-0.34720	563.00000
2.000	25.020	-0.0300	-0.1570	0.0740	-0.1310	-0.10370	-0.05700	-0.10610	-0.06840	-0.37840	563.00000
2.000	28.000	-0.0420	-0.1760	0.0810	-0.2370	-0.09310	-0.03860	-0.09930	-0.03290	-0.47480	563.00000
GRADIENT	0.0017	-0.0062	0.0039	0.0019	0.0023	0.0019	0.0023	0.0019	0.0017	-0.00655	0.00000



ABC 97-747 GA'38 B C M F W I V NOM. RM/L

(BEK011) (12 MAR 74)

REFERENCE DATA

SPEC 1 2.4210 30-FT. ZMEP = 32.3010 IN.
 CURV 1 14.2445 IN. ZMEP = .0000 IN.
 SPEC 2 28.1554 IN. ZMEP = 11.2500 IN.
 SCALE = .5350 SCALE

BETA = .00. ELEVOM = .000
 AILROM = .000 BCFLAP = -11.700
 SPOBRK = 95.500 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

RUN NO. 27/ 0 RM/L = 2.74 GRADIENT INTERVAL = -9.00/ 9.00

NACH	ALPHA	CMR	CMET	CHEO	CMET	CHUL	CMLL	CHUR	CHLR	CMRF	Q
1.000	-1.409	-.00310	.00030	.00170	-.00200	-.10210	-.13140	-.10160	-.12690	.02580	590.10000
1.000	-.183	-.00475	.00860	-.00450	-.06400	-.10110	-.12870	-.10510	-.12490	.01750	590.10000
1.000	1.364	-.00330	.00490	-.0112	-.04370	-.17850	-.12650	-.17750	-.12190	.01520	590.10000
1.000	3.430	-.07430	.03580	-.02000	.01380	-.17350	-.12170	-.17250	-.11650	.01110	590.10000
1.000	9.107	-.00420	.01660	-.02970	-.01310	-.16800	-.11000	-.16660	-.11520	.00300	590.10000
1.000	7.359	-.00500	-.0110	-.03640	-.04180	-.16270	-.11520	-.16260	-.11230	-.00250	590.10000
1.000	9.642	-.00450	-.0210	-.03910	-.06480	-.15850	-.11010	-.15800	-.10650	-.02620	590.10000
1.000	12.725	-.00370	-.0625	-.04940	-.11190	-.15340	-.10910	-.14800	-.10600	-.04100	590.10000
1.000	15.830	-.00520	-.0980	-.06040	-.15070	-.15010	-.10720	-.14450	-.10500	-.05340	590.10000
1.000	17.910	-.00780	-.12150	-.06630	-.18790	-.14700	-.10720	-.13950	-.10250	-.05540	590.10000
1.000	18.940	-.00970	-.13070	-.06880	-.19950	-.14260	-.09610	-.13320	-.08940	-.05590	590.10000
1.000	22.080	-.01150	-.15610	-.07610	-.23220	-.13960	-.08770	-.13850	-.08880	-.06670	590.10000
1.000	25.180	-.00180	-.17550	-.08260	-.25790	-.14150	-.07950	-.13480	-.07280	-.11610	590.10000
1.000	29.120	-.01350	-.16550	-.08660	-.27210	-.14210	-.07950	-.13480	-.07280	-.11610	590.10000
GRADIENT		.00012	-.00904	-.00439	-.01342	-.00178	.00195	.00187	.00173	-.00192	.00000

RUN NO. 23/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

NACH	ALPHA	CMR	CMET	CHEO	CMET	CHUL	CMLL	CHUR	CHLR	CMRF	Q
2.002	-1.403	-.00030	.00300	-.00180	-.05480	-.16060	-.11280	-.15670	-.10820	.00970	562.70000
2.002	-.185	-.00770	.04160	-.00310	-.03860	-.15830	-.11100	-.15560	-.10610	.00730	562.70000
2.002	1.376	-.00630	.02850	-.00930	.01930	-.15460	-.10940	-.15310	-.10460	.00380	562.70000
2.002	1.375	-.00630	.01260	-.01690	-.00430	-.15060	-.10670	-.14900	-.10210	-.01150	562.70000
2.002	3.434	-.00600	-.00730	-.02300	-.03120	-.14560	-.10470	-.14470	-.09970	-.02590	56.70000
2.002	7.480	-.00490	-.02390	-.03000	-.05380	-.14060	-.10140	-.13980	-.09730	-.01100	562.70000
2.002	9.550	-.00420	-.04370	-.03560	-.07930	-.13550	-.09790	-.13490	-.09410	-.01630	562.70000
2.002	12.620	-.00380	-.06670	-.04390	-.11060	-.12840	-.09000	-.12790	-.08970	-.02660	562.70000
2.002	15.700	-.00230	-.08890	-.05170	-.14060	-.12450	-.08860	-.12350	-.08710	-.04070	562.70000
2.002	18.870	-.00380	-.11100	-.05860	-.16960	-.11900	-.07620	-.11860	-.08030	-.05680	562.70000
2.002	21.940	-.00490	-.13280	-.06660	-.19930	-.11030	-.06140	-.11640	-.06620	-.07440	562.70000
2.002	25.040	-.00320	-.15700	-.07440	-.23140	-.09830	-.04530	-.10130	-.04750	-.08980	562.70000
2.002	28.950	-.00670	-.17380	-.08050	-.25440	-.07480	-.02430	-.08140	-.02460	-.11760	562.70000
GRADIENT		.00045	-.00831	-.00386	-.01217	.00209	.00120	.00161	.00122	-.00232	.00000

ARC 97-747 QAS38 B C M F W1 V NOM. RN/L

(BEK012) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 98-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 RREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BOFLAP = -11.700
 SPDRK = 99.000 R-ORDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 28/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHL2	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.189	-.09430	.03920	-.00410	.05510	-.19650	-.14200	-.13650	-.08130	.00290	563.70000
1.000	-3.082	-.05230	.06370	-.00370	.06000	-.18520	-.14820	-.14040	-.09130	.00360	563.70000
1.000	-1.934	-.02070	.06770	-.00450	.06330	-.17830	-.13300	-.14870	-.10250	.00660	563.70000
1.000	-.013	-.00370	.06800	-.00440	.06360	-.17540	-.12920	-.15340	-.10750	.00740	563.70000
1.000	1.015	-.00780	.07090	-.00400	.06690	-.17320	-.12540	-.15710	-.11200	.00720	563.70000
1.000	3.071	.04040	.07470	-.00320	.07150	-.16810	-.11640	-.18590	-.13300	.01470	595.70000
1.000	5.132	.07440	.07720	-.00190	.07340	-.15810	-.10780	-.19470	-.14560	.01210	595.70000
1.000	5.772	.08540	.07750	-.00190	.07570	-.15370	-.10360	-.19710	-.14770	.01160	595.70000
GRADIENT	.01495	.00177	.00100	.00010	.00186	.00275	.00414	-.00360	-.00426	.00008	-.00000

RUN NO. 24/ 0 RN/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHL2	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.555	-.11050	.04080	-.00600	.03480	-.18630	-.14200	-.13650	-.08130	.00290	563.70000
2.002	-3.471	-.07070	.04230	-.00490	.03740	-.17180	-.13070	-.14040	-.09130	.00360	563.70000
2.002	-1.456	-.02910	.04270	-.00360	.03910	-.16200	-.11840	-.14870	-.10250	.00660	563.70000
2.002	-.389	-.00700	.04300	-.00290	.04010	-.15660	-.11130	-.15340	-.10750	.00740	563.70000
2.002	.640	-.01360	.04330	-.00220	.04170	-.15060	-.10460	-.15710	-.11200	.00720	563.70000
2.002	2.719	.05820	.04790	-.00130	.04660	-.14140	-.09630	-.16750	-.12630	.00470	563.70000
2.002	4.752	.09490	.05210	.00000	.05210	-.13360	-.08710	-.17820	-.13730	.00340	563.70000
2.002	5.954	.12250	.05390	.00070	.05460	-.12210	-.08310	-.18460	-.14320	.00290	563.70000
GRADIENT	.02018	.00123	.00058	.00058	.00182	.00470	.00327	-.00458	-.00563	-.00016	-.00000



ARC 97-747 04538 B C M F W I V MOM. RM/L

(BEK013) (12 MAR 74)

REFERENCE DATA

BRFF = 2.4210 SB.FT. YMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFF = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 29/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.046	-0.0380	-0.03540	-0.04340	-0.07880	-0.16910	-0.13170	-0.13210	-0.08490	-0.01720	595.10000
1.600	-5.016	-0.0360	-0.03220	-0.04330	-0.07550	-0.15980	-0.12470	-0.13650	-0.09440	-0.01850	595.10000
1.600	-3.996	-0.02140	-0.03440	-0.04370	-0.07810	-0.15210	-0.11590	-0.14320	-0.10340	-0.01500	595.10000
1.600	.024	-0.00480	-0.03370	-0.04250	-0.07620	-0.14840	-0.11110	-0.14670	-0.10810	-0.01360	595.10000
1.600	1.038	0.01080	-0.03090	-0.04200	-0.07290	-0.14500	-0.10740	-0.14980	-0.11330	-0.01350	595.10000
1.600	3.062	0.04250	-0.03210	-0.04080	-0.07290	-0.13810	-0.09850	-0.15710	-0.12200	-0.01750	595.10000
1.600	5.104	0.07300	-0.03590	-0.04580	-0.08160	-0.13030	-0.09020	-0.16470	-0.12880	-0.01590	595.10000
1.600	6.927	0.10890	-0.03750	-0.04510	-0.08260	-0.12100	-0.07940	-0.17220	-0.13710	-0.01460	595.10000
GRADIENT	0.1581	0.0019	0.0045	0.0064	0.0064	0.00356	0.00430	-0.00337	-0.00457	0.00022	-0.00000

RUN NO. 25/ 0 RM/L = 2.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.426	-0.10000	-0.04190	-0.03640	-0.07830	-0.16100	-0.12160	-0.11310	-0.06950	-0.02430	562.70000
2.002	-3.393	-0.06640	-0.04490	-0.03810	-0.08300	-0.14800	-0.11320	-0.11720	-0.07770	-0.02180	562.70000
2.002	-1.343	-0.02280	-0.04670	-0.03760	-0.08430	-0.13480	-0.10390	-0.12380	-0.09000	-0.01820	562.70000
2.002	-0.343	-0.00350	-0.04810	-0.03740	-0.08550	-0.12980	-0.09700	-0.12870	-0.09460	-0.01780	562.70000
2.002	.659	0.01380	-0.04840	-0.03700	-0.08540	-0.12580	-0.09140	-0.13150	-0.09950	-0.01820	562.70000
2.002	2.893	0.05920	-0.04780	-0.03610	-0.08400	-0.11650	-0.07910	-0.14150	-0.11330	-0.02160	562.70000
2.002	4.728	0.09210	-0.04660	-0.03510	-0.08170	-0.10690	-0.07170	-0.15110	-0.11960	-0.02400	562.70000
2.002	6.769	0.14000	-0.04250	-0.03420	-0.07670	-0.09540	-0.06230	-0.16290	-0.13480	-0.02670	562.70000
2.002	8.801	0.16900	-0.03930	-0.03400	-0.06930	-0.07770	-0.06030	-0.16830	-0.13870	-0.02910	562.70000
GRADIENT	0.01965	0.00019	0.0037	0.0037	0.0018	0.00492	0.00531	-0.00413	-0.00528	-0.00044	0.00000

ARC 97-747 04538 B C M F VI V MOM. RM/L

(9EK014) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 98.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

RUN NO. 30/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA = 20.000 ELEVON = .000
 AILBOM = .000 BDELAB = -11.700
 SPDBRK = 95.000 RUDRDR = .000
 ELEV-L = .000 ELEV-R = .000

PARAMETRIC DATA

MACH	BETA	CHR	CHM	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.050	-3.047	-01460	-14310	-07250	-21560	-14430	-07350	-11260	-09110	-05320	595.40000
1.050	-2.987	-02850	-14230	-07270	-21500	-14150	-08990	-11390	-08890	-05550	595.40000
1.050	-.945	-03180	-14380	-07260	-21640	-13720	-10560	-12100	-09000	-06040	595.40000
1.050	.055	-05840	-14310	-07240	-21350	-12910	-09950	-12660	-09360	-06020	595.40000
1.050	1.069	02030	-14140	-07240	-21380	-12140	-09250	-13490	-09930	-05980	595.40000
1.050	3.127	03550	-13990	-07160	-21150	-11290	-08380	-14000	-09230	-05750	595.40000
1.050	9.168	02510	-13430	-07250	-20680	-10700	-07370	-14280	-06500	-05380	595.40000
1.050	7.218	03620	-12350	-07240	-19830	-08710	-06960	-13850	-05450	-04790	595.40000
1.050	9.271	06460	-11510	-07220	-18830	-04860	-07220	-11340	-07190	-04640	595.40000
	GRADIENT:	01197	05047	05017	05054	00499	00154	-00452	-00056	-00027	-0.00000

RUN NO. 26/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHM	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-3.423	01310	-11250	-05165	-17360	-11570	-04230	-09320	-07650	-06220	580.90000
2.002	-3.363	00760	-11850	-05260	-18110	-12030	-04940	-09920	-07810	-06110	580.90000
2.002	-1.392	-02860	-12050	-05290	-18130	-11460	-07110	-10230	-07480	-05770	580.90000
2.002	-.384	00320	-12560	-05310	-18360	-10890	-05820	-10700	-07330	-06300	580.90000
2.002	.750	01220	-12050	-05310	-18190	-11240	-05980	-11290	-07290	-06650	580.90000
2.002	2.741	00750	-11170	-05370	-18340	-09650	-06930	-11650	-05090	-06560	580.90000
2.002	3.772	-00240	-11560	-05440	-18400	-08220	-05960	-11660	-03690	-06320	580.90000
2.002	6.834	01590	-11570	-06400	-17970	-06340	-05770	-10080	-03520	-06500	580.90000
2.002	8.979	06470	-11130	-06950	-17510	-03640	-05420	-09750	-04630	-06430	580.90000
	GRADIENT:	-05010	-05057	-05005	-05031	00403	-05031	-05029	-05071	-05071	-0.00000

ARC 97-747 OAS3B B C M F W I Y LOW RM/L

(BEK013) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SB.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BCFLAP = .000
 SPDBRK = 99.000 RVDPER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 36/ 0 RM/L = 1.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEX	CHUL	CHLL	CHUR	CHLR	CHBF
1.601	-1.515	.00120	.08900	.00100	.09000	-1.18280	-1.13530	-1.18490	-1.13430	-1.02270
1.601	-1.188	.00540	-.07840	-.00600	.07040	-1.18020	-1.13120	-1.18390	-1.13290	-.02780
1.601	1.331	.00420	.05900	-.01280	.04620	-1.17980	-1.12800	-1.17900	-1.12900	-.02770
1.601	3.349	.00460	.04230	-.02080	.02140	-1.16980	-1.12390	-1.17300	-1.12330	-.03890
1.601	5.377	.00390	.02100	-.02750	-.00650	-1.16370	-1.12070	-1.16840	-1.12200	-.04910
1.601	7.398	.00580	-.00720	-.03330	-.04050	-1.16120	-1.11780	-1.16460	-1.12020	-.05850
1.601	9.428	.00600	-.03230	-.04070	-.07260	-1.15630	-1.11480	-1.15960	-1.11730	-.07050
1.601	12.470	.00560	-.06860	-.05060	-.11940	-1.15110	-1.11230	-1.15430	-1.11440	-.08320
1.601	16.560	.00490	-.10130	-.06990	-.16320	-1.14770	-1.10950	-1.15050	-1.11270	-.10870
1.601	21.610	.00070	-.13330	-.09660	-.20290	-1.14210	-1.10610	-1.14430	-1.10530	-.12870
1.601	24.650	.00490	-.15940	-.07730	-.23570	-1.13830	-1.10380	-1.14120	-1.09850	-.15090
1.601	28.460	.01010	-.18400	-.08460	-.26860	-1.13690	-1.09930	-1.14070	-1.09460	-.17230
GRADIENT		.00051	-.18930	-.08820	-.27740	-1.14050	-1.08270	-1.14780	-1.08560	-.20110
			-.00973	-.00445	-.01420	.00271	.00230	.00236	.00193	-.00308

RUN NO. 35/ 0 RM/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEX	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-1.321	.00700	.04960	.00000	.04960	-1.16320	-1.11720	-1.16940	-1.11800	-.03330
2.002	-1.198	.00840	.03920	-.00330	.03590	-1.15800	-1.11600	-1.16530	-1.11710	-.03900
2.002	1.315	.00470	.02750	-.00830	.01910	-1.15630	-1.11610	-1.16230	-1.11480	-.04600
2.002	3.334	.00470	.01040	-.01500	-.00430	-1.15250	-1.11280	-1.15800	-1.11200	-.05390
2.002	5.351	.00540	-.01070	-.02170	-.03240	-1.14540	-1.10940	-1.15070	-1.10940	-.06210
2.002	7.374	.00710	-.03170	-.02790	-.05960	-1.14070	-1.10670	-1.14730	-1.10710	-.07340
2.002	9.408	.00470	-.04750	-.03390	-.08140	-1.13640	-1.10310	-1.14140	-1.10270	-.08570
2.002	12.420	.00570	-.05930	-.04250	-.11190	-1.12780	-1.09790	-1.13360	-1.09780	-.09850
2.002	15.440	.00540	-.08970	-.05060	-.14020	-1.12480	-1.09340	-1.13100	-1.09460	-.12140
2.002	18.480	.00820	-.11020	-.05890	-.16910	-1.12130	-1.08840	-1.12700	-1.09090	-.15290
2.002	21.510	.00630	-.13520	-.06700	-.20220	-1.11360	-1.07560	-1.11910	-1.07640	-.17900
2.002	24.540	.00360	-.15940	-.07330	-.23470	-1.10310	-1.05930	-1.10690	-1.05920	-.21030
2.002	28.330	.00160	-.18310	-.08290	-.26610	-1.08310	-.03860	-1.08800	-1.03530	-.24240
GRADIENT		-.00066	-.00896	-.00313	-.01117	.00207	.00084	.00230	.00127	-.00427

ARC 97-747 04538 S C M F W MON. RM/L

(8EK016) (12 MAR 74)

REFERENCE DATA

BRFP = 2.4210 98. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BOFLAP = .000
 SPDBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 33/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHMI	CHCO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.600	-1.486	-0.0220	.07940	.00110	.06050	-.18180	-.13320	-.16240	-.13250	-.03750	602.30000
1.600	-2.216	-0.0110	.06800	-.00480	.06310	-.17990	-.13310	-.18140	-.13060	-.04320	602.30000
1.600	1.387	-0.0120	.05370	-.01170	.04190	-.17680	-.12990	-.17810	-.12740	-.04860	602.30000
1.600	3.441	-0.0060	.03480	-.02030	.01450	-.17130	-.12370	-.17230	-.12400	-.05620	602.30000
1.600	5.503	-0.0100	.01620	-.02960	-.01340	-.16540	-.12280	-.16640	-.12090	-.06530	602.30000
1.600	7.543	-0.0040	-.00600	-.03660	-.04260	-.15990	-.11960	-.16090	-.11820	-.07750	602.30000
1.600	9.643	-0.0070	-.02620	-.04070	-.06690	-.15530	-.11700	-.15610	-.11540	-.09200	602.30000
1.600	12.720	-0.0080	-.06290	-.05020	-.11310	-.15020	-.11450	-.15090	-.11290	-.11400	602.30000
1.600	15.820	-0.0020	-.09710	-.06060	-.15770	-.14620	-.11250	-.14720	-.11170	-.13810	602.30000
1.600	18.960	-0.0240	-.12990	-.06990	-.19880	-.14090	-.11160	-.14210	-.10760	-.16040	602.30000
1.600	22.060	-0.0350	-.15700	-.07600	-.23300	-.13870	-.10150	-.13840	-.09630	-.18270	602.30000
1.600	25.190	-0.0500	-.18010	-.08310	-.26320	-.13900	-.09350	-.14040	-.09210	-.20930	602.30000
1.600	29.120	-0.0650	-.18480	-.09650	-.27130	-.13700	-.08310	-.12600	-.07750	-.24620	602.30000
GRADIENT	.00024	-.00905	-.00433	-.01337	.00214	.00194	.00194	.00210	.00175	-.00374	.00000

RUN NO. 34/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHMI	CHCO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-1.349	-0.01090	.05250	-.00210	.03450	-.16410	-.12150	-.16000	-.11460	-.03160	589.40000
2.002	-2.06	-0.01000	.04030	-.00300	.03750	-.16230	-.11970	-.15890	-.11310	-.03610	589.40000
2.002	1.330	-0.00940	.02780	-.00890	.01890	-.15860	-.11770	-.15600	-.11090	-.04190	589.40000
2.002	3.393	-0.00650	.01070	-.01680	-.00600	-.15360	-.11480	-.15150	-.10830	-.05970	589.40000
2.002	5.472	-0.0030	-.00870	-.02400	-.03270	-.14920	-.11290	-.14660	-.10620	-.05910	589.40000
2.002	7.503	-0.00810	-.02680	-.02990	-.05680	-.14330	-.10370	-.14140	-.10330	-.06640	589.40000
2.002	9.567	-0.0370	-.04490	-.03350	-.08030	-.13760	-.10190	-.13660	-.10020	-.07920	589.40000
2.002	12.660	-0.0630	-.06910	-.04390	-.11200	-.13090	-.10100	-.13000	-.09540	-.09610	589.40000
2.002	15.760	-0.0710	-.09060	-.05230	-.14290	-.12660	-.09750	-.12310	-.09190	-.12050	589.40000
2.002	18.870	-0.0040	-.11160	-.05890	-.17030	-.12110	-.08550	-.12100	-.08520	-.14660	589.40000
2.002	21.970	-0.0300	-.13470	-.06710	-.20180	-.11360	-.07100	-.11440	-.07320	-.17260	589.40000
2.002	25.080	-0.0700	-.15850	-.07490	-.23330	-.10120	-.05180	-.10460	-.05540	-.20110	589.40000
2.002	28.980	-0.0830	-.17300	-.08080	-.25370	-.07610	-.02910	-.08110	-.03230	-.23370	589.40000
GRADIENT	.00047	-.00943	-.00383	-.01227	.00217	.00135	.00135	.00176	.00132	-.00388	.00000

ARC 97-747 OAS38 B C M F W I V HIGH RN/L

(BERK17) (12 MAR 74)

REFERENCE DATA

BREF # 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF # 14.2440 IN. YMRP = .0000 IN.
 BRFF # 26.1904 IN. ZMRP = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = .000
 SPDGRK = 55.000 RUDDER = .000
 CLEV-L = .000 ELEV-R = .000

RUN NO. 32/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.508	-0.0360	.07710	.00100	.07810	-0.16300	-0.11500	-0.13700	-0.12800	-0.03880	921.00000
1.000	-1.172	-0.0420	.06520	-0.0430	.06080	-0.10250	-0.12960	-0.18200	-0.12580	-0.04260	921.00000
1.000	1.393	-0.0400	-0.0120	-0.0100	.04050	-0.17980	-0.12670	-0.17900	-0.12350	-0.04720	921.00000
1.000	3.483	-0.0340	.03190	.01860	.01320	-0.17420	-0.12330	-0.17380	-0.12030	-0.05510	921.00000
1.000	5.578	-0.0280	.01370	.02690	.01380	-0.16700	-0.11960	-0.16790	-0.11740	-0.06460	921.00000
1.000	7.758	-0.0270	.00800	.03370	.04170	-0.16320	-0.11640	-0.16260	-0.11440	-0.07620	921.00000
1.000	9.815	-0.0280	.02800	.03850	.06650	-0.15890	-0.11360	-0.15800	-0.11160	-0.08970	921.00000
1.000	13.020	-0.0340	.06840	.05160	.12000	-0.15370	-0.11180	-0.15290	-0.10920	-0.10810	921.00000
1.000	16.170	-0.0090	.09760	.06030	.15800	-0.14900	-0.10900	-0.14900	-0.10900	-0.13540	921.00000
1.000	19.320	-0.0640	.12740	.06800	.19340	-0.14350	-0.10810	-0.14240	-0.10270	-0.15760	921.00000
1.000	22.530	-0.0320	.15230	.07530	.22780	-0.14200	-0.09790	-0.14070	-0.09390	-0.17880	921.00000
1.000	25.710	-0.0170	.16890	.08100	.25000	-0.14250	-0.14210	-0.14210	-0.08870	-0.20460	921.00000
1.000	29.790	-0.00910	.18450	.08320	.26970	-0.13980	-0.07580	-0.12840	-0.06910	-0.23970	921.00000
GRADIENT		.00006	-0.00905	-0.00392	-0.01900	.00194	.00167	.00200	.00153	-0.00359	.00000

RUN NO. 31/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.518	-0.1160	.05050	.00190	.05240	-0.16140	-0.11710	-0.15700	-0.10980	-0.03140	868.90000
2.002	-1.232	-0.1150	.04000	.00320	.03690	-0.16070	-0.11620	-0.15670	-0.10860	-0.03520	868.90000
2.002	1.371	-0.1080	.02700	.00920	.01780	-0.15800	-0.11370	-0.15470	-0.10620	-0.04060	868.90000
2.002	3.423	-0.1010	.01940	.01660	.00620	-0.15360	-0.11110	-0.15260	-0.10350	-0.04910	868.90000
2.002	5.543	-0.0920	.00820	.02280	.03100	-0.14930	-0.10900	-0.14670	-0.10230	-0.05750	868.90000
2.002	7.611	-0.0950	.02760	.02900	.03650	-0.14400	-0.10690	-0.14110	-0.09950	-0.06630	868.90000
2.002	9.699	-0.0790	.04440	.03460	.07900	-0.13900	-0.10210	-0.13370	-0.09650	-0.07640	868.90000
2.002	12.830	-0.0740	.06630	.04280	.11910	-0.13210	-0.09750	-0.12950	-0.09270	-0.09350	868.90000
2.002	15.990	-0.0720	.08640	.05100	.13930	-0.12850	-0.09390	-0.12550	-0.08990	-0.11740	868.90000
2.002	19.140	-0.0150	.10870	.05820	.16700	-0.12240	-0.08190	-0.12050	-0.08230	-0.14330	868.90000
2.002	22.320	.00060	.13240	.06630	.19910	-0.11410	-0.06600	-0.11240	-0.06830	-0.17010	868.90000
2.002	25.480	.00260	.15550	.07370	.22920	-0.10040	-0.04780	-0.10130	-0.04950	-0.19700	868.90000
2.002	29.470	.00820	.16900	.07960	.24870	-0.07390	-0.02630	-0.07940	-0.02950	-0.23040	868.90000
GRADIENT		.00032	-0.00811	-0.00373	-0.01187	.00162	.00126	.00133	.00122	-0.00359	.00000

ARC 97-747 Q4338 B C M F M I V LOW RM/L

(BEK018) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. HMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 IM.
 BREF = 28.1094 IM. ZMRP = 11.2300 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AILROM = .000 BOFLAP = -11.700
 SPOBRK = 35.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

RUN NO. 37/ 0 RM/L = 1.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
1.651	-1.475	.01100	.27070	.04420	.31490	-.17320	-.12840	-.17840	-.13410	.03640
1.651	-.204	.01060	.26080	.03780	.29820	-.17130	-.12740	-.17700	-.13230	.03420
1.651	1.319	.01010	.24420	.03120	.27540	-.16900	-.12450	-.17370	-.12990	.02960
1.651	3.340	.00710	.22340	.02320	.24860	-.16350	-.12230	-.16610	-.12680	.02750
1.651	5.370	.01050	.19700	.01740	.21440	-.15490	-.11860	-.15970	-.12420	.02340
1.651	7.395	.01110	.17200	.01360	.18550	-.15030	-.11620	-.15530	-.12230	.01880
1.651	9.425	.01460	.14440	.01100	.15540	-.14430	-.11240	-.15090	-.12040	.01070
1.651	11.450	.01390	.11700	.00720	.12420	-.14110	-.11100	-.14760	-.11820	-.00050
1.651	15.510	.01450	.09940	-.00220	.09720	-.13430	-.10780	-.14140	-.11560	-.02110
1.651	18.560	.01090	.08350	-.00750	.08560	-.12700	-.10130	-.13300	-.10620	-.03770
1.651	21.600	.01050	.06220	-.00340	.06170	-.12250	-.09620	-.12910	-.09990	-.05810
1.651	24.650	.00840	.04670	-.00370	.04530	-.12640	-.09170	-.13340	-.09320	-.07330
1.651	28.480	.01350	-.02920	-.00250	-.00510	-.12070	-.08750	-.13600	-.09560	-.09590
GRADIENT		-.00560	-.00594	-.00353	-.01387	.00200	.00133	.00258	.00152	-.00193

RUN NO. 38/ 0 RM/L = 1.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
2.003	-1.460	.00490	.25440	.03990	.24430	-.15950	-.11450	-.16110	-.12190	.00340
2.003	-.199	.00760	.19340	.03480	.22770	-.15460	-.11760	-.16100	-.11870	.01160
2.003	1.314	.00750	.17900	.02670	.20570	-.15220	-.11590	-.15880	-.11730	.00360
2.003	3.331	.00500	.15710	.01920	.17250	-.14520	-.11160	-.15410	-.11370	.00000
2.003	5.348	.00700	.12240	.01430	.13710	-.14390	-.10350	-.14880	-.11160	.00000
2.003	7.368	.00560	.09360	.01000	.10450	-.13340	-.10080	-.14370	-.10930	.00000
2.003	9.387	.00330	.07370	.00760	.08130	-.12400	-.10270	-.13950	-.10720	.00000
2.003	12.410	.00500	.05470	.00440	.05910	-.12750	-.10720	-.13280	-.10350	-.01990
2.003	15.450	.00500	.04270	-.00160	.04110	-.12410	-.10640	-.12900	-.09700	-.03410
2.003	18.480	.00650	.01690	-.00900	.01600	-.11980	-.10320	-.12300	-.09180	-.04960
2.003	21.510	.00450	.00330	-.01400	.01950	-.11410	-.10780	-.11880	-.08660	-.06700
2.003	24.540	.00740	-.02590	-.01920	-.04400	-.10300	-.10610	-.10880	-.08260	-.08670
2.003	28.350	.00150	-.04420	-.02260	-.06710	-.09730	-.10460	-.10220	-.07470	-.10030
GRADIENT		-.00006	-.01066	-.00436	-.01352	.00162	.00145	.00151	.00163	-.00093



ABC 87-747 04338 B C M F W V WDM, RM/L

(8E019) (12 MAR 74)

REFERENCE DATA

SREF = 2.4215 38.FT. THPP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -80.000
 AIRLROM = .000 BDFLAP = -11.700
 SPOBRK = 55.000 PUDDER = .000
 ELEV-L = -20.000 ELEV-R = -80.000

RUN NO. 42/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-1.511	-.00400	.27800	.05290	.33080	-.18720	-.13330	-.18720	-.13140	.03600	606.40000
1.001	-.219	-.00370	.26780	.04590	.31370	-.18500	-.13370	-.18380	-.13010	.03460	606.40000
1.001	1.342	-.00470	.25590	.03970	.29560	-.18410	-.13150	-.18290	-.12800	.03220	606.40000
1.001	3.409	-.00370	.23480	.03360	.26840	-.17850	-.12800	-.17740	-.12530	.02880	606.40000
1.001	5.478	-.00320	.21010	.02630	.23640	-.17200	-.12420	-.17100	-.12190	.02310	606.40000
1.001	7.545	-.00440	.19070	.01850	.20910	-.16710	-.12100	-.16490	-.11870	.01680	606.40000
1.001	9.615	-.00360	.15860	.01660	.17520	-.16040	-.11740	-.15800	-.11520	.00990	606.40000
1.001	12.730	-.00490	.11030	.00800	.11830	-.15540	-.11550	-.15280	-.11330	-.00930	606.40000
1.001	15.830	-.00440	.06030	-.00170	.08650	-.15010	-.11390	-.14760	-.11190	-.02370	606.40000
1.001	18.930	-.00620	.03180	-.00080	.02380	-.14010	-.11090	-.13840	-.10640	-.04050	606.40000
1.001	22.070	-.00840	.01050	-.01450	-.00400	-.13620	-.10550	-.13370	-.09460	-.05840	606.40000
1.001	25.190	-.00260	-.02500	-.01980	-.03980	-.13370	-.09010	-.13240	-.08280	-.07550	606.40000
1.001	28.090	-.01170	-.02740	-.02020	-.04770	-.12930	-.07950	-.12440	-.07270	-.09440	606.40000
GRADIENT	.00001	-.00873	-.00387	-.01259	.00175	.00149	.00126	.00202	-.00150	-.00150	.00000

RUN NO. 39/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.003	-1.502	-.00750	.26370	.05680	.28190	-.15780	-.11800	-.15430	-.11400	.01930	565.90000
2.003	-.220	-.00760	.19580	.05150	.24720	-.15670	-.11660	-.15350	-.11220	.01810	565.90000
2.003	1.328	-.00730	.18330	.04580	.22880	-.15300	-.11470	-.15100	-.11020	.01610	565.90000
2.003	3.383	-.00610	.16600	.03760	.20360	-.14930	-.11190	-.14750	-.10770	.01260	565.90000
2.003	5.435	-.00590	.14080	.03270	.17350	-.14460	-.11020	-.14320	-.10370	.00800	565.90000
2.003	7.490	-.00370	.11770	.02640	.14410	-.13870	-.10690	-.13820	-.10370	.00150	565.90000
2.003	9.550	-.00370	.09160	.01965	.11110	-.13370	-.10340	-.13300	-.10040	-.00610	565.90000
2.003	12.640	-.00300	.06630	.01100	.07730	-.12650	-.09840	-.12580	-.09600	-.01800	565.90000
2.003	15.740	-.00200	.04390	.00160	.04730	-.12190	-.09430	-.12120	-.09310	-.03380	565.90000
2.003	18.840	.00380	.01830	-.00660	.01170	-.11820	-.08280	-.11770	-.08200	-.04920	565.90000
2.003	21.940	.00620	-.00700	-.01330	-.02040	-.11130	-.06920	-.11150	-.07310	-.06590	565.90000
2.003	25.040	.00730	-.03060	-.01830	-.04890	-.09810	-.05160	-.10130	-.05560	-.08540	565.90000
2.003	28.930	.00700	-.04200	-.02220	-.06400	-.07020	-.02890	-.07380	-.03040	-.10380	565.90000
GRADIENT	.00029	-.00814	-.00381	-.01195	.00178	.00125	.00129	.00144	-.00138	-.00138	.00000

ARC 87-747 04358 B C M F W1 V HIGH RM/L

(868020) (12 MAR 74)

REFERENCE DATA

BREF = 2.4218 88.FT. ZMRP = 32.3010 IM.
 LREF = 14.2440 IM. YMRP = .0000 I.
 BREF = 26.1094 IM. ZMRP = 11.2500 I.
 SCALE = .0300 SCALE

RUN NO. 41/ 9 RM/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

BETA = .000 ELEVON = -20.000
 AIRLON = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = -20.000 ELEV-R = -20.000

MACH	ALPHA	CMR	CMEI	CHEO	CHEZ	CMUL	CMUR	CMHL	CMHR	CMFL	CMFR	CMFB	CMFB	0
1.601	-1.338	-0.00410	.27210	.04580	.31790	-1.17870	-1.13020	-1.12650	-1.17860			.03360	911.10000	
1.601	-1.318	-0.00390	.25980	.05910	.29900	-1.17750	-1.12870	-1.12480	-1.17750			.03160	911.10000	
1.601	1.365	-0.00350	.24700	.03280	.27950	-1.17540	-1.12630	-1.12280	-1.17540			.03050	911.10000	
1.601	3.470	-0.00330	.22870	.02700	.25370	-1.17160	-1.12310	-1.12000	-1.17150			.02820	911.10000	
1.601	5.573	-0.00280	.20620	.02310	.22930	-1.16720	-1.12000	-1.11740	-1.16700			.02720	911.10000	
1.601	7.681	-0.00220	.18350	.02010	.20360	-1.16160	-1.11650	-1.11410	-1.16150			.01540	911.10000	
1.601	9.784	-0.0024	.13410	.01800	.15230	-1.15700	-1.11300	-1.11120	-1.15700			.00440	911.10000	
1.601	12.960	-0.00370	.10770	.00810	.11590	-1.15240	-1.11210	-1.10990	-1.15170			-.00990	911.10000	
1.601	16.130	-0.00120	.05570	-.00310	.05850	-1.14640	-1.10980	-1.10850	-1.14660			-.02750	911.10000	
1.601	22.490	-0.00700	.03280	-.00820	.02450	-1.13800	-1.10580	-1.10220	-1.13800			-.04260	911.10000	
1.601	28.690	-0.00850	.00770	-.01540	-.00780	-1.13030	-.09590	-.09040	-.13340			-.05040	911.10000	
1.601	29.650	-0.00770	-.00310	-.02030	-.04340	-1.13450	-.08620	-.08380	-.13280			-.07710	911.10000	
1.601	29.650	-0.00770	-.00310	-.02030	-.04340	-1.13450	-.08620	-.08380	-.13280			-.05620	911.10000	
GRADIENT		.00017	-.00593	-.00373	-.01273	-.00143	-.00143	-.00129	-.00129			-.00129	-.00000	

RUN NO. 40/ 0 RM/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CHEZ	CMUL	CMUR	CMHL	CMHR	CMFL	CMFR	CMFB	CMFB	0
2.003	-1.338	-0.01180	.20240	.04960	.28190	-1.16090	-1.11810	-1.11560	-1.15820			.01980	872.90000	
2.003	-1.330	-0.01150	.19260	.04370	.26550	-1.15910	-1.11680	-1.10980	-1.15820			.01840	872.90000	
2.003	1.338	-0.01120	.17910	.03810	.24720	-1.15670	-1.11550	-1.10730	-1.15820			.01650	872.90000	
2.003	3.420	-0.01030	.15840	.03040	.18890	-1.15320	-1.11240	-1.10550	-1.15930			.01260	872.90000	
2.003	5.506	-0.00940	.13090	.02650	.15660	-1.14890	-1.11040	-1.10390	-1.14850			.00670	872.90000	
2.003	7.601	-0.00940	.10330	.02230	.12760	-1.14420	-1.10790	-1.10230	-1.14180			-.00010	872.90000	
2.003	9.697	-0.00830	.08370	.01910	.10180	-1.13960	-1.10470	-1.09970	-1.13660			-.00640	872.90000	
2.003	12.840	-0.00860	.06220	.01050	.07300	-1.13200	-1.09900	-1.09370	-1.13000			-.00900	872.90000	
2.003	16.000	-0.00670	.04360	.00310	.04870	-1.12340	-1.09300	-1.09340	-1.12330			-.00420	872.90000	
2.003	19.150	-0.00220	.01370	-.00140	.01030	-1.12100	-1.08400	-1.08390	-1.12100			-.00490	872.90000	
2.003	22.310	-0.00170	-.00080	-.01340	-.00230	-1.11890	-1.06680	-1.06740	-1.11890			-.00740	872.90000	
2.003	25.470	.00520	-.03140	-.01870	-.00510	-1.10000	-.04820	-.04190	-.10190			-.08600	872.90000	
2.003	29.420	.00770	-.04450	-.02160	-.00660	-1.07130	-.02660	-.02040	-.07310			-.10280	872.90000	
GRADIENT		.00030	-.00892	-.00393	-.01273	-.00149	-.00149	-.00114	-.00114			-.00149	-.00000	

ARC 97-747 0453B B C M F W I V MON. RM/L

(BEK021) (12 MAR 74)

REFERENCE DATA

BREF # 2.4210 50.FT. XMRP = 32.3010 IN.
 LREF # 14.2440 IN. YMRP = .0000 IN.
 RREF # 20.1554 IN. ZMRP = 11.2500 IN.
 SCALE # .0300 SCALE

BETA = .000 ELEVON 2 = -10.000
 AIRLON = 10.000 RCFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -20.000

RUN NO. 44/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHEI	CHEO	CHEZ	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-1.551	-0.0300	.27490	.52290	.32780	-1.0110	-1.13040	-1.17970	-1.12890	.03280	590.10000
1.000	-1.196	-0.0120	.26370	.04610	.31190	-1.17960	-1.12770	-1.17900	-1.12700	.02860	590.10000
1.000	1.377	-0.0200	.25470	.03910	.29380	-1.17690	-1.12500	-1.17570	-1.12420	.02500	590.10000
1.000	5.411	-0.0160	.23660	.03420	.27080	-1.17260	-1.12120	-1.17100	-1.12120	.02150	590.10000
1.000	5.494	-0.0210	.21150	.02590	.23690	-1.16730	-1.11810	-1.16530	-1.11800	.01550	590.10000
1.000	7.532	-0.0170	.19170	.01840	.21010	-1.16130	-1.11470	-1.15950	-1.11480	.00850	590.10000
1.000	9.614	-0.0150	.16090	.01690	.17780	-1.15650	-1.11330	-1.15470	-1.11150	-.00010	590.10000
1.000	12.710	-0.0210	.11950	.00830	.12190	-1.15120	-1.10880	-1.14950	-1.10900	-.01510	590.10000
1.000	15.820	-0.0180	.06090	-.00140	.05960	-1.14750	-1.10750	-1.14530	-1.10770	-.02370	590.10000
1.000	16.930	-0.0340	.02440	-.00780	.02440	-1.13930	-1.10430	-1.13750	-1.10270	-.04670	590.10000
1.000	22.550	-0.0410	.01030	-.01410	-.00380	-1.13670	-1.09950	-1.13480	-1.09260	-.06290	590.10000
1.000	25.170	-0.0290	-.01990	-.01970	-.03950	-1.13330	-1.08460	-1.13290	-.08790	-.08070	590.10000
1.000	29.070	-0.01610	-.02710	-.02040	-.04730	-1.13990	-.08050	-1.13100	-.07330	-.10460	590.10000
GRADIENT		.00019	-.00770	-.00378	-.01148	.00173	.00184	.00182	.00157	-.00191	.00000

RUN NO. 43/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEZ	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.337	-0.0630	.20310	.05700	.26220	-1.17300	-1.11260	-1.13360	-1.11000	.01690	583.10000
2.002	-1.215	-0.0680	.19380	.04670	.24030	-1.15580	-1.11150	-1.12220	-1.08300	.01500	583.10000
2.002	1.327	-0.0640	.18260	.04570	.22630	-1.15260	-1.10930	-1.14930	-1.06400	.01220	583.10000
2.002	3.391	-0.0540	.16460	.03870	.20330	-1.14670	-1.10630	-1.14570	-1.05950	.00710	583.10000
2.002	5.451	-0.0480	.14110	.03340	.17450	-1.14400	-1.10430	-1.14140	-1.02000	.00190	583.10000
2.002	7.497	-0.0360	.11660	.02660	.14310	-1.13830	-1.09140	-1.13640	-.09970	-.00390	583.10000
2.002	9.563	-0.0280	.09090	.01920	.11020	-1.13260	-.09750	-1.13090	-.09670	-.01010	583.10000
2.002	12.650	-0.0150	.06590	.01070	.07660	-1.12620	-.09230	-1.12460	-.09240	-.02120	583.10000
2.002	15.740	-0.0120	.04570	.00160	.04730	-1.12180	-.08880	-1.11990	-.08950	-.03770	583.10000
2.002	18.840	-0.0330	.01600	-.00840	.01160	-1.11620	-.07630	-1.11500	-.08300	-.03370	583.10000
2.002	21.940	-0.0790	-.00740	-.01310	-.02050	-1.10740	-.06160	-1.07500	-.05940	-.07050	583.10000
2.002	25.040	-0.0730	-.02930	-.01840	-.04750	-.09470	-.04630	-.09790	-.03050	-.09080	583.10000
2.002	28.910	-0.0540	-.04110	-.02210	-.06320	-.07260	-.02330	-.07660	-.02690	-.11050	583.10000
GRADIENT		.00021	-.00814	-.00336	-.01132	.00176	.00130	.00164	.00124	-.00020	.00000

ARC 97-747 04338 B C M F M1 V MOM. RM/L

(06X022) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 90.FT. ZMRP = 32.3010 IM.
 LBREF = 14.2440 IM. YMRP = .0000 IM.
 SBREF = 28.1004 IM. ZMRP = 11.2300 IM.
 SCALL = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -20.000
 AIRLON = 20.000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHM1	CMEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-1.503	-05450	.41780	.06900	-.48800	-1.05300	-.12360	-.20560	-1.17900	.02900
1.000	-.217	-.05450	.41160	.06180	-.47340	-1.03300	-.12100	-.20400	-1.15400	.02730
1.000	1.337	-.05190	.39740	.05340	-.45990	-1.17970	-.11770	-.20170	-1.14770	.02360
1.000	3.401	-.04670	.37870	.04270	-.42140	-1.17300	-.11430	-.19340	-1.14140	.01790
1.000	5.473	-.03890	.33460	.03360	-.37020	-1.16920	-.11190	-.18460	-1.13540	.01180
1.000	7.543	-.03540	.29330	.02470	-.32000	-1.16360	-.10860	-.17690	-1.12570	.00730
1.000	9.603	-.01960	.23380	.02290	-.25670	-1.15710	-.10490	-.16720	-1.11440	-.00160
1.000	12.720	-.00810	.19550	.01560	-.20820	-1.15145	-.10200	-.15510	-1.10690	-.01390
1.000	15.820	-.00880	.14980	.01110	-.16590	-1.14840	-.10200	-.15100	-1.10740	-.02180
1.000	18.930	-.00940	.11940	.01060	-.12930	-1.14030	-.09800	-.14440	-1.10410	-.04530
1.000	22.040	-.01090	.09170	.00820	-.09320	-1.13790	-.09530	-.14370	-.09540	-.06170
1.000	25.190	-.01290	-.06290	-.00690	-.05960	-1.14020	-.09120	-.14770	-.08860	-.07900
1.000	28.080	-.00390	-.04110	-.00670	-.04760	-1.13900	-.09750	-.14900	-.07350	-.10430
GRADIENT	-.00166	-.00617	-.00436	-.01350	-.00237	-.00151	-.00252	-.00244	-.00341	-.00000

RUN NO. 45/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHM	CHM1	CMEO	CMET	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-1.557	-.00830	.33390	.05240	-.39530	-1.15860	-.10790	-.19360	-1.10260	.01900
2.002	-.217	-.00870	.22640	.04500	-.33340	-1.15750	-.10530	-.19350	-1.10140	.01400
2.002	1.329	-.00740	.31350	.04360	-.35350	-1.15370	-.10490	-.19090	-1.10080	.01560
2.002	3.378	-.00650	.28910	.03590	-.32850	-1.14830	-.10150	-.18600	-.10790	.01510
2.002	5.428	-.00580	.24750	.02800	-.27350	-1.14330	-.09700	-.18180	-.10590	-.00010
2.002	7.484	-.00470	.17110	.02020	-.20530	-1.13900	-.09400	-.17370	-.10450	-.00560
2.002	9.549	-.00400	.11800	.01760	-.17660	-1.13360	-.09150	-.17260	-.10160	-.00260
2.002	12.640	-.00320	.08060	.01390	-.13190	-1.12620	-.09000	-.16240	-.09760	-.00210
2.002	15.740	-.00250	.06060	.01190	-.10260	-1.12260	-.08850	-.15240	-.09490	-.00280
2.002	18.840	-.00450	.05710	.00910	-.07630	-1.11600	-.09350	-.14180	-.09290	-.00400
2.002	21.930	-.00450	.04130	.00600	-.04740	-1.10800	-.09340	-.13080	-.09340	-.00350
2.002	25.030	-.00370	-.02440	-.00400	-.02940	-1.09810	-.09490	-.12490	-.09420	-.00270
2.002	28.000	-.00290	-.01750	-.00300	-.01300	-.09750	-.09350	-.12180	-.09270	-.00350
GRADIENT	.00048	-.00030	-.00540	-.01471	-.00127	-.00214	-.00194	-.00156	-.00267	-.00000

ARC 97-747 04538 B C M F W1 V MOM. RM/L

REFERENCE DATA
 BREF = 2.4215 98-FT. TMEP = 32.3010 IM. BETA = .000 ELEVOM = -20.000
 LBREF = 14.2445 IM. TMEP = .5005 IM. AILROM = .000 BDFLAP = -11.700
 RBREF = 28.1924 IM. TMEP = 11.2750 IM. SPDBRK = 95.000 RUDDER = .000
 SCALE = .5005 SCALE ELEV-L = -40.000 ELEV-R = -40.000

RUN NO. 46/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHM1	CHM2	CHM3	CHM4	CHM5	CHM6	CHM7	CHM8	CHM9	CHM10	CHM11	CHM12	CHM13	CHM14	CHM15	CHM16	CHM17	CHM18	CHM19	CHM20	CHM21	CHM22	CHM23	CHM24	CHM25	CHM26	CHM27	CHM28	CHM29	CHM30	CHM31	CHM32	CHM33	CHM34	CHM35	CHM36	CHM37	CHM38	CHM39	CHM40	CHM41	CHM42	CHM43	CHM44	CHM45	CHM46	CHM47	CHM48	CHM49	CHM50
1.000	-1.536	.00280	.42550	.07120	.49160	-.19620	-.15260	-.19810	-.15360	.03170	388.60000																																									
1.000	-.239	.00470	.41730	.06260	.47990	-.19490	-.14770	-.19670	-.15040	.03100	388.60000																																									
1.000	1.315	.00330	.40340	.05380	.45910	-.19190	-.14230	-.19440	-.14510	.02850	388.60000																																									
1.000	3.305	.00640	.38360	.04360	.42750	-.18520	-.13540	-.18750	-.13950	.02290	388.60000																																									
1.000	5.457	.00750	.36650	.03690	.37290	-.17770	-.12870	-.17980	-.13390	.01785	388.60000																																									
1.000	7.521	.00960	.29490	.02610	.32090	-.16830	-.11820	-.17060	-.12520	.01320	388.60000																																									
1.000	9.509	.02290	.24220	.02370	.26390	-.15050	-.10440	-.16930	-.11750	.00990	388.60000																																									
1.000	12.690	.05905	.19270	.01620	.20890	-.14660	-.10100	-.15010	-.11260	-.00680	388.60000																																									
1.000	15.815	.01040	.15295	.01120	.16410	-.14490	-.10370	-.14830	-.11070	-.01840	388.60000																																									
1.000	18.920	.01340	.12450	.01040	.13440	-.14170	-.10320	-.14700	-.11130	-.03620	388.60000																																									
1.000	22.040	.01570	.09710	.00880	.10390	-.14200	-.09730	-.14680	-.10320	-.05750	388.60000																																									
1.000	25.160	.00740	.06660	.00700	.07300	-.14470	-.09060	-.14910	-.09360	-.07120	388.60000																																									
1.000	28.050	.01980	.04520	.00620	.04640	-.12620	-.07320	-.14530	-.07590	-.09340	388.60000																																									
GRADIENT	.00068	-.00770	-.00557	-.01326	.00226	.00226	.00348	.00215	.00292	-.00182	.00000																																									

RUN NO. 47/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHM1	CHM2	CHM3	CHM4	CHM5	CHM6	CHM7	CHM8	CHM9	CHM10	CHM11	CHM12	CHM13	CHM14	CHM15	CHM16	CHM17	CHM18	CHM19	CHM20	CHM21	CHM22	CHM23	CHM24	CHM25	CHM26	CHM27	CHM28	CHM29	CHM30	CHM31	CHM32	CHM33	CHM34	CHM35	CHM36	CHM37	CHM38	CHM39	CHM40	CHM41	CHM42	CHM43	CHM44	CHM45	CHM46	CHM47	CHM48	CHM49	CHM50
2.002	-1.524	-.00990	.33580	.05170	.39750	-.16080	-.10780	-.15580	-.10300	.02070	567.40000																																									
2.002	-.236	-.00890	.32860	.04500	.38360	-.15860	-.10640	-.15470	-.10170	.01840	567.40000																																									
2.002	1.311	-.00740	.31150	.04780	.35910	-.15620	-.10340	-.15290	-.10130	.01320	567.40000																																									
2.002	3.363	-.00660	.29270	.03540	.32830	-.15110	-.10330	-.14900	-.09880	.01100	567.40000																																									
2.002	5.424	-.00610	.25230	.02740	.27970	-.14710	-.10220	-.14540	-.09780	.00410	567.40000																																									
2.002	7.473	-.00430	.18280	.02870	.21140	-.14290	-.10020	-.14170	-.09720	-.00450	567.40000																																									
2.002	9.535	-.00310	.15970	.02510	.18480	-.13620	-.09750	-.13730	-.09490	-.01080	567.40000																																									
2.002	12.630	-.00310	.10580	.02910	.15490	-.13090	-.09270	-.12960	-.09070	-.01820	567.40000																																									
2.002	15.730	-.00390	.08370	.02510	.10930	-.12740	-.08920	-.12560	-.08790	-.03370	567.40000																																									
2.002	18.830	.00470	.06950	.00930	.07860	-.12150	-.07680	-.12140	-.08160	-.05000	567.40000																																									
2.002	21.930	.00350	.04420	.00620	.05030	-.11660	-.06830	-.11590	-.06920	-.06940	567.40000																																									
2.002	25.030	.00260	.02420	.00410	.02930	-.10290	-.04910	-.10460	-.05000	-.08450	567.40000																																									
2.002	28.930	.00260	.01330	.00300	.01640	-.07650	-.02810	-.08050	-.02470	-.10870	567.40000																																									
GRADIENT	.00068	-.00910	-.00534	-.01446	.00198	.00198	.00091	.00140	.00081	-.00200	.00000																																									

ARC 97-747 Q4338 B C M P W V MOM. RM/L

(BER824) (12 MAR 74)

REFERENCE DATA

REF * 2.4210 84.71. ZMRP * 32.3010 IM.
 LREF * 14.2440 IM. YMRP * .0000 IM.
 BRP * 29.1094 IM. ZMRP * 11.2300 IM.
 SCALE * .0300 SCALE

BETA * .000 ELEVOM * .000
 ALLROM * .000 BDFLAP * -11.700
 SPOBRK * 25.000 RUDDER * .000
 ELEV-L * .000 ELEV-R * .000

PARAMETRIC DATA

RUN NO. 56/ 0 RM/L * 2.72 GRADIENT INTERVAL * -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CWEO	CMET	CHUL	CMLL	CHUR	CHLR	CHBF
1.000	-1.534	-.00310	-.07920	.00140	-.08070	-.08410	-.03700	-.07970	-.03720	-.01860
1.000	-.807	-.00380	-.06780	-.00440	-.06340	-.08300	-.03700	-.07980	-.03640	-.01670
1.000	1.345	-.00420	-.03310	-.01140	-.04170	-.08180	-.05600	-.07820	-.03340	-.01500
1.000	3.417	-.00400	-.03410	-.02010	-.01490	-.07930	-.03460	-.07390	-.03410	-.01100
1.000	5.471	-.00290	-.01440	-.02950	-.01510	-.07640	-.03290	-.07340	-.03340	-.00610
1.000	7.546	-.00130	-.00740	-.03330	-.04270	-.07270	-.03160	-.07100	-.03300	-.00130
1.000	8.575	-.00190	-.01650	-.03800	-.05430	-.07270	-.03090	-.07000	-.03210	-.00650
1.000	12.710	-.00110	-.06330	-.04900	-.11290	-.06890	-.04860	-.06610	-.03020	-.02570
1.000	15.820	-.00240	-.09760	-.06910	-.15710	-.06570	-.04600	-.06230	-.04730	-.04050
1.000	18.960	-.00310	-.13110	-.08620	-.19930	-.06270	-.04350	-.06260	-.04250	-.03360
1.000	22.080	-.00680	-.15390	-.07540	-.23140	-.06370	-.04170	-.06030	-.03820	-.06230
1.000	25.170	-.00120	-.17600	-.08220	-.25257	-.05840	-.03650	-.05730	-.03640	-.08310
1.000	29.080	-.01680	-.18580	-.08660	-.27250	-.05910	-.02830	-.05360	-.02490	-.11790
GRADIENT	.00016	-.00915	-.00915	-.00435	-.01352	.00096	.00066	.00282	.00063	-.00151

RUN NO. 49/ 0 RM/L * 2.77 GRADIENT INTERVAL * -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CWEO	CMET	CHUL	CMLL	CHUR	CHLR	CHBF
2.002	-1.548	-.00310	-.05180	.00190	-.03370	-.07110	-.03180	-.06700	-.05080	-.00850
2.002	-.816	-.00390	-.04080	-.00110	-.03750	-.07010	-.03160	-.06370	-.05040	-.00620
2.002	1.325	-.00420	-.02760	-.00330	-.01810	-.06750	-.03530	-.06430	-.04960	-.00310
2.002	3.383	-.00310	-.01070	-.01730	-.00870	-.06590	-.04390	-.06200	-.04860	-.00220
2.002	5.438	-.00320	-.00660	-.02420	-.03280	-.06400	-.04920	-.06030	-.04760	-.00530
2.002	7.488	-.00410	-.02710	-.01930	-.03750	-.06140	-.04760	-.05840	-.04650	-.01240
2.002	9.531	-.00390	-.04420	-.03570	-.07970	-.06010	-.04600	-.05720	-.04510	-.01870
2.002	12.640	-.00230	-.00850	-.04420	-.11270	-.05720	-.04240	-.05320	-.04220	-.02910
2.002	14.700	-.00230	-.08230	-.04940	-.13160	-.05570	-.04250	-.05350	-.04040	-.03630
2.002	18.740	-.00070	-.09000	-.01070	-.14080	-.05480	-.03940	-.05350	-.03940	-.04120
2.002	18.840	-.00130	-.11050	-.03650	-.16890	-.05200	-.03090	-.05310	-.03420	-.03350
2.002	21.940	-.00110	-.13330	-.06660	-.19990	-.04990	-.02320	-.04860	-.02760	-.03520
2.002	23.040	-.00560	-.15750	-.07460	-.23160	-.04330	-.01850	-.04390	-.01840	-.03380
2.002	26.910	-.00070	-.17380	-.08100	-.25480	-.03420	-.00760	-.03650	-.00410	-.03180
GRADIENT	.00007	-.00035	-.00035	-.00189	-.01227	.00111	.00041	.00101	.00046	-.00210

REFERENCE DATA
 REF # 8.4210 30.FT. YMRP # 32.3010 IN. ALPHA # .000 ELEVON # .000
 LREF # 14.2440 IN. YMRP # .0000 IN. ALLROM # .000 BDFLAP # -11.700
 SREF # 20.1554 IN. ZMRP # 11.2500 IN. SPDRK # 25.000 RUCCER # .000
 SCALE # .0000 SCALE ELEV-L # .000 ELEV-R # .000

RUN NO. 55/ 0 R/L # 2.75 GRADIENT INTERVAL # -5.00/ 5.00

MACM	BETA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
1.000	-3.182	-.07580	.03970	-.00400	.05570	-.10970	-.07730	-.06890	-.04240	-.01080
1.000	-3.101	-.04700	.06330	-.00390	.05940	-.09840	-.06960	-.07200	-.04900	-.01280
1.000	-1.034	-.01690	.06660	-.00400	.06180	-.08720	-.06050	-.07640	-.03440	-.01510
1.000	-.012	-.00280	.06830	-.00440	.05390	-.08180	-.03600	-.07790	-.03710	-.01630
1.000	1.016	.01110	.07030	-.00410	.06620	-.07700	-.05170	-.08010	-.03970	-.01580
1.000	3.285	.04080	.07440	-.00330	.07110	-.06690	-.04240	-.08470	-.08540	-.01280
1.000	3.149	.06600	.07750	-.00190	.07580	-.05560	-.03300	-.08730	-.06930	-.01060
1.000	5.985	.07670	.07870	-.00170	.07700	-.05020	-.03270	-.08930	-.07110	-.00980
GRADIENT	.01414	.05180	.00192	.00012	.00192	.00508	.00439	-.00203	-.00264	.00503

RUN NO. 50/ 0 RM/L # 2.75 GRADIENT INTERVAL # -5.00/ 5.00

MACM	BETA	CHR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF
2.002	-3.340	-.08750	.03920	-.00610	.03320	-.10500	-.07160	-.05910	-.03000	-.00180
2.002	-3.482	-.05830	.04070	-.00320	.03550	-.09130	-.06340	-.06030	-.03580	-.00240
2.002	-1.417	-.02380	.04170	-.00410	.03760	-.07710	-.05420	-.06300	-.04430	-.00350
2.002	-.376	-.00690	.04210	-.00330	.03880	-.07010	-.04940	-.06440	-.04820	-.00660
2.002	.647	.01010	.04280	-.00270	.04010	-.06350	-.04460	-.06690	-.05130	-.00540
2.002	2.708	.04390	.04660	-.00170	.04500	-.05320	-.03540	-.07330	-.05920	-.00330
2.002	4.774	.07270	.05080	-.00020	.05060	-.04310	-.02760	-.07740	-.06620	-.00190
2.002	5.815	.08830	.05280	.00060	.05340	-.03610	-.02440	-.07910	-.06970	-.00140
GRADIENT	.01597	.00124	.00060	.00184	.00184	.00380	.00436	-.00217	-.00365	-.00020

PARAMETRIC DATA

(08K026) (12 MAR 74)

ARC 97-747 0A338 B C H F W1 V MON. RN/L

REFERENCE DATA

SREF = 2.4210 86.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 54/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.041	-0.0350	-0.03670	-0.0350	-0.08020	-0.09350	-0.06560	-0.05800	-0.03770	-0.01640	386.60000
1.600	-3.001	-0.0440	-0.03220	-0.04200	-0.07430	-0.08600	-0.06370	-0.06100	-0.04300	-0.01680	596.60000
1.600	-9.988	-0.01660	-0.03430	-0.04240	-0.07670	-0.07430	-0.05480	-0.05420	-0.04830	-0.01480	596.60000
1.600	.036	-0.00330	-0.03370	-0.04150	-0.07530	-0.06910	-0.05060	-0.06590	-0.05030	-0.01400	596.60000
1.600	1.041	.00970	-0.03010	-0.04120	-0.07130	-0.06450	-0.04680	-0.06790	-0.05310	-0.01420	596.60000
1.600	3.078	.04040	-0.03510	-0.04280	-0.07790	-0.05400	-0.03850	-0.07300	-0.05990	-0.01570	596.60000
1.600	5.107	.06150	-0.03680	-0.04460	-0.08140	-0.04360	-0.03110	-0.07490	-0.06120	-0.01570	596.60000
1.600	7.141	.09050	-0.03250	-0.04450	-0.08290	-0.03140	-0.02160	-0.07720	-0.06630	-0.01540	596.60000
1.600	7.545	.09640	-0.03810	-0.04470	-0.08250	-0.02780	-0.01910	-0.07760	-0.06780	-0.01460	596.60000
	GRADIENT	.01391	-0.00022	-0.00006	-0.00027	.00422	.00412	-0.00196	-0.00262	.00019	-0.00000

RUN NO. 51/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.433	-0.06590	-0.04420	-0.03710	-0.08130	-0.08760	-0.06020	-0.05090	-0.03110	-0.02560	580.70000
2.002	-3.582	-0.04970	-0.04630	-0.03850	-0.08470	-0.07970	-0.05720	-0.05200	-0.03520	-0.02420	580.70000
2.002	-1.360	-0.01720	-0.04800	-0.03800	-0.08650	-0.06300	-0.04930	-0.05520	-0.04190	-0.02140	580.70000
2.002	-3.348	-0.03450	-0.04920	-0.03760	-0.08680	-0.06350	-0.04520	-0.05660	-0.04460	-0.02060	580.70000
2.002	.677	.00710	-0.04920	-0.03740	-0.08670	-0.05390	-0.04110	-0.05740	-0.04680	-0.02110	580.70000
2.002	2.702	.03780	-0.04910	-0.03650	-0.08570	-0.04630	-0.03160	-0.06150	-0.05420	-0.02230	580.70000
2.002	4.735	.06290	-0.04670	-0.03530	-0.08200	-0.03640	-0.02480	-0.06660	-0.05760	-0.02500	580.70000
2.002	6.766	.08940	-0.04340	-0.03480	-0.07830	-0.02470	-0.01820	-0.06880	-0.06350	-0.02790	580.70000
2.002	8.803	.11000	-0.03670	-0.03440	-0.07110	-0.01360	-0.01620	-0.07270	-0.06700	-0.03000	580.70000
	GRADIENT	.01378	-0.00006	.00039	.00031	.00316	.00407	-0.00175	-0.00281	-0.00017	.00000



ARC 97-747 0A33B B C M F W1 V MOM. RN/L

(08E027) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 30.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPDBRK = 25.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 51/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.000	-5.047	-0.0040	-1.14030	-0.7210	-2.21230	-0.7470	-0.3790	-0.4540	-0.3680	-0.0390	598.70000
1.000	-5.000	-0.02040	-1.14270	-0.7220	-2.21490	-0.6880	-0.3390	-0.4640	-0.3590	-0.0370	598.70000
1.000	-4.955	-0.01960	-1.14520	-0.7200	-2.21710	-0.6350	-0.3980	-0.4920	-0.3450	-0.0360	598.70000
1.000	-4.964	-0.00600	-1.14300	-0.7190	-2.21490	-0.5540	-0.3560	-0.5000	-0.3380	-0.0380	598.70000
1.000	1.091	0.0690	-1.14150	-0.7220	-2.21360	-0.4730	-0.3390	-0.5270	-0.3540	-0.0370	598.70000
1.000	3.137	0.2710	-1.13920	-0.7110	-2.21040	-0.4030	-0.3190	-0.5990	-0.3900	-0.0380	598.70000
1.000	5.180	0.2690	-1.13380	-0.7170	-2.20540	-0.3430	-0.3010	-0.6780	-0.3950	-0.0350	598.70000
1.000	7.231	0.4150	-1.12510	-0.7230	-1.9740	-0.2470	-0.2790	-0.6190	-0.3220	-0.0480	598.70000
1.000	9.279	0.6640	-1.11500	-0.7150	-1.8650	-0.1380	-0.3080	-0.6420	-0.4680	-0.0460	598.70000
GRADIENT		0.0026	0.00069	0.00015	0.00083	0.00497	0.00064	0.00215	0.00050	0.00000	-1.00000

RUN NO. 52/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.412	-0.01080	-1.11310	-0.68130	-1.7430	-0.5650	-0.1810	-0.3550	-0.2830	-0.0260	579.90000
2.002	-3.362	-0.00900	-1.11790	-0.66160	-1.7950	-0.5550	-0.1990	-0.3770	-0.2870	-0.0270	579.90000
2.002	-1.319	-0.0420	-1.11850	-0.66190	-1.8050	-0.4630	-0.2330	-0.3930	-0.2610	-0.0410	579.90000
2.002	-2.294	-0.0120	-1.11850	-0.6210	-1.8070	-0.4290	-0.2240	-0.4010	-0.2390	-0.0230	579.90000
2.002	.716	0.0080	-1.11660	-0.6220	-1.8080	-0.3980	-0.2290	-0.4140	-0.2200	-0.0260	579.90000
2.002	2.770	0.01050	-1.11770	-0.6270	-1.8040	-0.3330	-0.2440	-0.4680	-0.2160	-0.0250	579.90000
2.002	4.101	0.0850	-1.11770	-0.6260	-1.8030	-0.2920	-0.2390	-0.5480	-0.1540	-0.0640	579.90000
2.002	6.644	0.2070	-1.11530	-0.6320	-1.7850	-0.1620	-0.2380	-0.6420	-0.0180	-0.0650	579.90000
2.002	8.902	0.4370	-1.1070	-0.6340	-1.7410	-0.0330	-0.2050	-0.6420	-0.2480	-0.0640	579.90000
GRADIENT		0.0244	0.00007	0.00014	0.00006	0.00319	0.00045	0.00122	0.00151	0.00024	-1.00000

ARC 97-747 04330 B C W F W V NOM. RM/L

(BEK020) (12 MAR 74)

REFERENCE DATA

BREF = 2.4218 90.FT. ZMRP = 32.3818 IM.
 LREF = 14.2449 IM. YMRP = .9095 IM.
 SBEP = 28.1554 IM. ZMRP = 11.2559 IM.
 SCALE = .0355 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 AIRLON = .000 BDFLAP = .000
 SPOBKE = \$5.000 BUDSEP = .000
 ELEV-L = .000 ELEV-H = .000

RUN NO. 58/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.50/ 5.50

MACH	ALPHA	CMB	CME1	CME0	CME2	CHUL	CHLL	CMUR	CMBF
1.500	-1.495	-0.0436	.07900	.00070	.07976	-1.17676	-1.13740	-1.17550	-0.01650
1.500	-1.181	-0.0590	.04700	-0.0020	.06180	-1.17510	-1.13500	-1.17350	-0.04800
1.500	1.358	-0.0610	.05420	-0.01180	.04240	-1.17100	-1.13250	-1.16950	-0.04590
1.500	3.400	-0.0550	.03900	-0.0200	.01000	-1.16800	-1.12840	-1.16340	-0.05440
1.500	7.450	-0.0340	.01580	-0.02340	-0.0190	-1.15950	-1.12310	-1.15580	-0.06400
1.500	9.830	-0.0090	.00260	-0.04130	.06770	-1.15320	-1.12050	-1.15380	-0.07640
1.500	12.710	-0.0060	.00140	-0.05030	-0.11170	-1.14300	-1.11590	-1.14000	-0.08130
1.500	15.850	-0.0090	.00030	-0.0580	-0.15740	-1.13940	-1.11090	-1.13650	-0.08700
1.500	18.340	-0.0080	.0000	-0.0630	-0.1980	-1.13200	-1.10400	-1.13000	-0.09300
1.500	22.000	-0.0050	.0000	-0.0650	-0.2340	-1.12000	-1.09500	-1.12000	-0.09900
1.500	26.150	-0.0020	.0000	-0.0610	-0.2640	-1.10300	-1.08300	-1.10700	-0.10500
1.500	29.200	-0.0010	.0000	-0.0530	-0.2840	-1.08300	-1.06800	-1.09200	-0.11100
GRADIENT		.0000	.0000	-0.0022	.0000	.00000	.00000	.00000	.00000

RUN NO. 57/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.50/ 5.50

MACH	ALPHA	CMB	CME1	CME0	CME2	CHUL	CHLL	CMUR	CMBF
2.000	-1.501	-0.0470	.05220	.00110	.05330	-1.15470	-1.11580	-1.15230	-0.01460
2.000	-1.197	-0.0680	.04000	-0.0010	.03650	-1.15310	-1.11320	-1.14950	-0.03450
2.000	1.102	-0.0610	.02700	-0.0070	.01800	-1.14510	-1.10900	-1.14700	-0.04000
2.000	3.351	-0.0500	.01000	-0.0190	.00740	-1.14400	-1.10400	-1.14410	-0.04900
2.000	5.457	-0.0430	.00600	-0.02450	-0.0090	-1.13700	-1.09700	-1.13700	-0.05700
2.000	7.452	-0.030	.0020	-0.0280	-0.0160	-1.12840	-1.08900	-1.12840	-0.06500
2.000	9.206	-0.0200	.0000	-0.0300	-0.0210	-1.12700	-1.08400	-1.12600	-0.07300
2.000	12.850	-0.0100	.0000	-0.0400	-0.0240	-1.11500	-1.07300	-1.11500	-0.08100
2.000	15.750	-0.0090	.0000	-0.0410	-0.0260	-1.10300	-1.06200	-1.10300	-0.08900
2.000	18.840	-0.0040	.0000	-0.0400	-0.0290	-1.09000	-1.05000	-1.09000	-0.09700
2.000	22.100	-0.0010	.0000	-0.0360	-0.0290	-1.07400	-1.03600	-1.07400	-0.10500
2.000	25.510	-0.0000	.0000	-0.0340	-0.2050	-1.05700	-1.02100	-1.05700	-0.11300
2.000	28.920	-0.0000	.0000	-0.0310	-0.2140	-1.03900	-1.00400	-1.03900	-0.12100
GRADIENT		.0000	.0000	-0.0000	.0000	.00000	.00000	.00000	.00000

TABLED SOURCE DATA - 04538

DATE 16 JUL 74

ARC 97-747 04538 B C M F W I V MOM. RM/L

(08E028) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. THRP = 32.3010 IN.
 LREF = 14.2440 IN. THRP = .0000 IN.
 BREF = 20.1004 IN. THRP = 11.2500 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 62/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHE2	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-5.154	.07960	.05690	-.00430	.03260	-.14510	-.11610	-.10500	-.16100	.01120
1.000	-5.100	.11730	.06120	-.00420	.03700	-.12890	-.10550	-.10380	-.16790	.01400
1.000	-1.043	.15070	.06430	-.00480	.03960	-.12000	-.09580	-.10300	-.17990	.01700
1.000	-.028	.16340	.06340	-.00470	.06070	-.11700	-.09090	-.10280	-.18370	.01800
1.000	1.010	.17590	.06800	-.00410	.06300	-.11360	-.09090	-.10200	-.18950	.01690
1.000	3.070	.20660	.07140	-.00330	.06810	-.10950	-.08550	-.10830	-.20330	.01350
1.000	5.143	.23320	.07500	-.00210	.07300	-.10110	-.07770	-.20820	-.21190	.01110
1.000	6.173	.24970	.07750	-.00130	.07620	-.09830	-.07490	-.20350	-.21650	.01040
	GRADIENT	.01430	.00167	.00017	.00182	.00316	.00320	-.00225	-.00568	-.00008

RUN NO. 59/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHE2	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-5.543	.05060	.03810	-.00630	.03180	-.13600	-.10710	-.15750	-.13620	.00200
2.002	-3.490	.09300	.03960	-.00520	.03440	-.11400	-.09600	-.16140	-.14240	.00340
2.002	-1.401	.13580	.04040	-.00410	.03640	-.09870	-.06490	-.16590	-.15350	.00650
2.002	-.389	.15690	.04100	-.00340	.03760	-.09310	-.07930	-.16990	-.15950	.00700
2.002	.624	.17680	.04210	-.00290	.03930	-.08830	-.07440	-.17370	-.16580	.00730
2.002	2.707	.21660	.04570	-.00180	.04390	-.08080	-.06800	-.18270	-.18270	.00410
2.002	4.770	.24570	.05000	-.00100	.04990	-.07650	-.06160	-.19530	-.00260	.00260
2.002	5.766	.26240	.05190	-.00040	.05230	-.07090	-.05870	-.19090	-.00180	.00180
	GRADIENT	.01867	.00129	.00061	.00180	.00412	.00412	-.00342	-.00656	-.00003

ARC 97-747 OA338 B C M F W1 V MOM. RM/L

(BEK030) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 86.FT. XMRP = 38.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -10.500
 ELEV-L = .000 ELEV-R = .000

RUN NO. 03/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-5.047	.07170	-.03840	-.04320	-.08160	-.12230	-.09770	-.15510	-.13560	-.01670
1.500	-3.008	.09550	-.03460	-.04420	-.07890	-.11270	-.09270	-.15640	-.14420	-.01760
1.600	-.996	.12860	-.03700	-.04300	-.08000	-.10230	-.08470	-.16090	-.15500	-.01440
1.800	.025	.14390	-.03560	-.04260	-.07820	-.09830	-.08090	-.16280	-.16030	-.01340
1.850	1.034	.15860	-.03360	-.04210	-.07570	-.09560	-.07860	-.16620	-.16660	-.01390
1.900	3.079	.19300	-.03430	-.04240	-.07690	-.09620	-.07220	-.17110	-.18030	-.01750
1.950	5.109	.22100	-.03750	-.04510	-.08260	-.07840	-.06670	-.17690	-.18930	-.01610
1.800	7.145	.25390	-.03600	-.04430	-.08310	-.06900	-.03860	-.18070	-.20080	-.01600
1.600	9.163	.28970	-.03410	-.04350	-.07810	-.05370	-.03130	-.18180	-.02190	-.01630
GRADIENT	.01590	.00010	.00010	.00010	.00051	.00426	.00333	-.00238	-.00592	.00004

RUN NO. 60/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-3.433	.04400	-.04310	-.03630	-.07930	-.11330	-.08950	-.13420	-.11340	-.02400
2.002	-3.374	.07390	-.04580	-.03790	-.08370	-.10070	-.08400	-.13710	-.12150	-.02280
2.002	-1.355	.11720	-.04760	-.03710	-.08430	-.08560	-.07420	-.14240	-.13330	-.02050
2.002	-1.349	.15620	-.04860	-.03710	-.08570	-.08150	-.06990	-.14580	-.14180	-.01900
2.002	.667	.15370	-.04860	-.03690	-.08550	-.07760	-.06650	-.14910	-.14880	-.01800
2.002	2.698	.19490	-.04870	-.03560	-.08490	-.06830	-.05430	-.15770	-.16380	-.02190
2.002	4.731	.22930	-.04740	-.03450	-.08180	-.06130	-.05230	-.16560	-.17750	-.02470
2.002	6.781	.26350	-.04390	-.03400	-.07800	-.05180	-.04600	-.17200	-.18930	-.02710
2.002	8.779	.28590	-.03700	-.03360	-.07080	-.04200	-.04460	-.17780	-.19470	-.02810
GRADIENT	.01912	-.00019	.00040	.00040	.00023	.00470	.00389	-.00359	-.00694	-.00033



ARC 97-747 04538 B C M F WI V WDM. RN/L

(BEK031) (12 MAR 74)

REFERENCE DATA

XREF = 2.4210 56. FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1574 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 64/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHUR	CHLL	CHUR	CHLR	CHBF	q
1.600	-5.044	.09050	-1.14050	-.07200	-.21250	-.10370	-.21250	-.06380	-.12930	-.12870	-.05290	595.10000
1.600	-2.997	.11480	-1.14260	-.07220	-.21480	-.09520	-.21480	-.06190	-.13560	-.13610	-.05680	595.10000
1.600	-.950	.13350	-1.14400	-.07200	-.21600	-.08500	-.21600	-.06550	-.14090	-.14290	-.06150	595.10000
1.600	.062	.15750	-1.14340	-.07220	-.21560	-.07630	-.21560	-.06100	-.14540	-.14920	-.06200	595.10000
1.600	1.071	.17090	-1.14230	-.07230	-.21450	-.06930	-.21450	-.05860	-.14750	-.15150	-.06090	595.10000
1.600	3.115	.16540	-1.14020	-.07150	-.21170	-.06360	-.21170	-.05740	-.15310	-.13350	-.05700	595.10000
1.600	5.168	.14900	-1.13420	-.07200	-.20620	-.06020	-.20620	-.05390	-.15440	-.10880	-.05390	595.10000
1.600	7.241	.12910	-1.12620	-.07240	-.19860	-.04810	-.19860	-.04840	-.14400	-.08150	-.04930	595.10000
1.600	9.275	.13490	-1.11740	-.07180	-.18920	-.02770	-.18920	-.05320	-.10990	-.10590	-.04760	595.10000
1.600	GRADIENT	.00932	.00044	.00009	.00053	.00513	.00053	.00059	-.00290	-.00029	-.00000	-.00000

RUN NO. 61/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHUR	CHLL	CHUR	CHLR	CHBF	q
2.002	-5.418	.10420	-1.11230	-.06160	-.17390	-.07910	-.17390	-.03690	-.10360	-.11160	-.06260	571.50000
2.002	-3.369	.12470	-1.11610	-.06230	-.18030	-.07840	-.18030	-.03740	-.11760	-.12300	-.06340	571.50000
2.002	-1.315	.13380	-1.12040	-.06270	-.18310	-.06870	-.18310	-.04660	-.12530	-.12390	-.06570	571.50000
2.002	-.313	.14850	-1.12090	-.06270	-.18360	-.06170	-.18360	-.04310	-.13020	-.12290	-.06610	571.50000
2.002	.709	.15050	-1.12080	-.06270	-.18350	-.05940	-.18350	-.04420	-.13430	-.11970	-.06600	571.50000
2.002	2.754	.11660	-1.12050	-.06350	-.18390	-.05250	-.18390	-.04460	-.13300	-.08080	-.06630	571.50000
2.002	4.784	.09770	-1.11890	-.06370	-.18260	-.05170	-.18260	-.04320	-.13300	-.05980	-.06480	571.50000
2.002	6.841	.08350	-1.11700	-.06390	-.18090	-.03870	-.18090	-.04080	-.11340	-.04940	-.06640	571.50000
2.002	6.884	.11020	-1.11260	-.06360	-.17640	-.02070	-.17640	-.03390	-.10760	-.05720	-.06420	571.50000
2.002	GRADIENT	-.00390	-.00006	-.00018	-.00024	.00334	-.00024	-.00047	-.00182	.00858	-.00015	-.00000

ARC 97-747 QAS38 B C H F W1 V MOM. RM/L

(BEK032) (12 MAR 74)

REFERENCE DATA

XREF = 2.4210 SQ.FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 20.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0350 SCALE

RUN NO. 88/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-5.042	-27590	-13860	-07170	-21030	-03420	-02340	-15490	-17860	-05380	587.10000
1.600	-3.002	31910	-14120	-07180	-21310	-02970	-01490	-16950	-19420	-05570	587.10000
1.600	-0.952	34350	-14250	-07160	-21410	-02580	-01360	-17510	-20780	-05920	587.10000
1.600	.062	35070	-14190	-07150	-21340	-02080	-01190	-17700	-20650	-05920	587.10000
1.600	1.085	34780	-14070	-07150	-21220	-01890	-01290	-17910	-20550	-05850	587.10000
1.600	3.122	35460	-13890	-07110	-21000	-01550	-01440	-18030	-19550	-05760	587.10000
1.600	5.175	27430	-13290	-07130	-20430	-01410	-01350	-17930	-12670	-05390	587.10000
1.600	7.217	27430	-12440	-07180	-19820	-00890	-00870	-15970	-09210	-04860	587.10000
1.600	9.270	22270	-11560	-07120	-18850	-00380	-01490	-11770	-12680	-04580	587.10000
GRADIENT		-50115	50443	05011	05055	00243	00011	-00178	00545	-00025	-0.00000

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BOFLAP = -11.700
 SPDRK = 35.000 RUDEL = -25.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 64/ 0 RM/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.553	29390	-13900	-07600	-03310	-04740	-04370	-18760	-19730	05170	565.50000
2.002	-3.449	33130	-14070	-07500	-03370	-04250	-03760	-20630	-22570	05370	565.50000
2.002	-1.421	36240	-14060	-07050	-03680	-03670	-02990	-21420	-21460	05630	565.50000
2.002	-0.385	37750	-14120	-07030	-03790	-03450	-02840	-21760	-21880	05590	565.50000
2.002	.644	39120	-14200	-07020	-03940	-03200	-02600	-21990	-22520	05670	565.50000
2.002	2.704	41560	-14620	-07030	-04490	-02830	-01790	-22460	-24070	05330	565.50000
2.002	4.770	43520	-15030	-07020	-05050	-02650	-01260	-22290	-25140	05230	565.50000
2.002	6.797	44330	-15160	-07070	-05220	-02600	-01150	-22340	-25750	05100	565.50000
GRADIENT		01235	00123	05063	00186	00194	05098	-00168	-00374	-00031	-0.00000



ARC 97-747 04338 B C M F W1 V MOM. RM/L

(BEK033) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 SB.FT. XMP = 32.3010 IM.
 LREF = 14.2440 IM. YMP = .0000 IM.
 BREF = 28.1504 IM. ZMP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 10.000 ELEVOM = .000
 AIRLOM = .000 BCFLAP = -11.700
 SPDBRK = 95.000 RUCCER = -23.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 69/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CNET	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-9.031	.30870	-.03900	-.04260	-.07780	-.02990	-.03190	-.17700	-1.9350	-.01650
1.000	-3.017	.32370	-.03220	-.04370	-.07390	-.02870	-.03050	-.18200	-.20090	-.01680
1.000	-.994	.34560	-.03390	-.04250	-.07640	-.02730	-.02620	-.18010	-.20500	-.01370
1.000	.021	.34970	-.03240	-.04160	-.07410	-.02610	-.02530	-.18810	-.21300	-.01330
1.000	1.033	.34160	-.03190	-.04200	-.07350	-.02440	-.02440	-.19080	-.21950	-.01490
1.000	3.064	.38610	-.03380	-.04250	-.07630	-.02020	-.02090	-.19470	-.23250	-.01780
1.000	9.093	.45410	-.03750	-.04460	-.08230	-.01730	-.01780	-.19980	-.23950	-.01750
1.000	7.133	.41970	-.04050	-.04440	-.08480	-.01560	-.01580	-.20280	-.24830	-.01700
1.000	9.166	.43460	-.03820	-.04350	-.07980	-.01190	-.01500	-.20330	-.25620	-.01460
GRADIENT	.01027	-.00012	.00020	.00008	.00141	.00151	.00151	-.00211	-.00524	-.00021

RUN NO. 66/ 0 RN/L = 2.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	TNET	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-5.430	.26920	-.04270	-.03700	-.07980	-.04070	-.02970	-.17420	-.16540	-.02310
2.002	-3.390	.28590	-.04590	-.03780	-.08380	-.03910	-.02980	-.18180	-.17320	-.02190
2.002	-1.359	.31650	-.04730	-.03690	-.08420	-.03570	-.02350	-.18720	-.18840	-.01830
2.002	-.347	.32840	-.04870	-.03690	-.08560	-.03410	-.02080	-.18950	-.19380	-.01760
2.002	.668	.34330	-.04920	-.03630	-.08560	-.03210	-.01890	-.19310	-.20120	-.01770
2.002	2.699	.37790	-.04860	-.03550	-.08410	-.02690	-.01370	-.20000	-.21830	-.02230
2.002	4.724	.39890	-.04730	-.03460	-.08200	-.02470	-.01170	-.20390	-.23140	-.02480
2.002	6.754	.41480	-.04410	-.03420	-.07830	-.02170	-.01000	-.20610	-.24040	-.02790
2.002	8.785	.42830	-.03780	-.03410	-.07180	-.01730	-.01000	-.20780	-.24790	-.02810
GRADIENT	.01420	-.00018	.00039	.00039	.00021	.00186	.00225	-.00283	-.00723	-.00034

ARC 97-747 04338 B C M F W I V NOM. RM/L

(BER034) (12 MAR 74)

REFERENCE DATA

BREF = 2.4210 SQ.FT. ZMRP = 32.3010 IM.
 LREF = 14.8440 IM. TMRP = .0000 IM.
 SBREF = 28.1004 IM. ZMRP = 11.2500 IM.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 ATLR0M = .000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = -25.000
 ELEV-L = .000 ELEV-R = .000

RUM NO. 70/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-5.177	.32300	.08860	-.00370	.05110	-.04330	-.04850	-.18390	-.22890	.01080
1.000	-5.110	.36690	.06280	-.00360	.05920	-.03860	-.03990	-.20960	-.23370	.01490
1.000	-1.054	.38900	.06650	-.00380	.06270	-.03500	-.03430	-.21570	-.24250	.01560
1.000	-.523	.39410	.06740	-.00380	.06360	-.03440	-.03240	-.21500	-.24590	.01710
1.000	1.000	.40100	.06940	-.00340	.06600	-.03290	-.02990	-.21690	-.25030	.01340
1.000	3.572	.42740	.07310	-.00300	.07020	-.02880	-.02260	-.22040	-.25840	.01230
1.000	5.139	.44710	.07650	-.00210	.07440	-.02570	-.01860	-.22310	-.26140	.01050
1.000	6.165	.44460	.07620	-.00210	.07650	-.02510	-.01790	-.22420	-.26270	.00940
	GRADIENT	.00950	.00160	.00000	.00170	.00153	.00272	-.00193	-.00360	-.00033

RUM NO. 67/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

WACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-5.415	.26320	-.11390	-.00000	.17970	-.02550	-.01140	-.13420	-.16430	-.006400
2.002	-5.371	.25970	-.11540	-.00010	.18140	-.02640	-.01000	-.15900	-.17000	-.00360
2.002	-1.122	.31110	-.11090	-.00000	.18220	-.02040	-.01100	-.16030	-.18130	-.00390
2.002	-1.310	.30190	-.11200	-.00000	.18240	-.01990	-.00950	-.16530	-.18600	-.00480
2.002	.715	.28680	-.11240	-.00000	.18230	-.01900	-.01010	-.16750	-.18640	-.00540
2.002	2.758	.24510	-.11560	-.00010	.18290	-.01690	-.01170	-.16990	-.19920	-.00510
2.002	4.727	.20420	-.11360	-.00010	.18150	-.01760	-.01330	-.16930	-.19730	-.00510
2.002	6.039	.16460	-.11390	-.00010	.17940	-.01460	-.01340	-.13220	-.15950	-.00300
2.002	6.886	.11600	-.11080	-.00000	.17390	-.00900	-.01450	-.12490	-.10480	-.00310
	GRADIENT	-.00310	.00000	.00000	.00017	.00113	-.00044	-.00037	.00418	-.00000



ARC 87-747 045528 B C M F W I V NOM. RM/L

(BEK035) (12 MAR 74)

REFERENCE DATA

BRFP = 2.4815 80.FT. IMRP = 32.3510 IN.
 LRFP = 14.2440 IN. YMRP = .0000 IN.
 BRFP = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 AILROM = .000 BDFLAP = -11.700
 SPBRK = 25.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 76/ 0 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-5.171	.09860	.05920	-.00360	.05560	-.04940	-.04000	-.10700	-.08090	.01030	589.70000
1.001	-3.107	.12790	.06330	-.00340	.05990	-.04040	-.03350	-.11440	-.08790	.01340	589.70000
1.001	-1.049	.17240	.06640	-.00410	.06230	-.03360	-.02770	-.11970	-.09390	.01630	589.70000
1.001	-.018	.16400	.06750	-.00400	.06360	-.03070	-.02500	-.12500	-.09760	.01630	589.70000
1.001	1.013	.17570	.06980	-.00330	.06650	-.02810	-.02290	-.12560	-.10120	.01460	589.70000
1.001	3.083	.20240	.07370	-.00270	.07100	-.02360	-.01760	-.13180	-.11250	.01070	589.70000
1.001	5.139	.22550	.07670	-.00170	.07500	-.02030	-.01270	-.13860	-.11990	.00810	589.70000
1.001	6.165	.23600	.07870	-.00140	.07740	-.01850	-.01170	-.14190	-.12430	.00770	589.70000
	GRADIENT	.01196	.00168	.00014	.00182	.00271	.00257	-.00282	-.00386	-.00048	.00000

RUN NO. 71/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.543	.07410	.03980	-.00560	.03420	-.04390	-.03900	-.08890	-.06820	.00140	566.90000
2.002	-3.477	.09940	.04040	-.00500	.03540	-.03460	-.03330	-.09290	-.07440	.00330	566.90000
2.002	-1.413	.12810	.04210	-.00450	.03810	-.02370	-.02700	-.09840	-.08240	.00660	566.90000
2.002	-.381	.14410	.04110	-.00310	.03800	-.02160	-.02290	-.10210	-.08660	.00670	566.90000
2.002	.654	.15820	.04260	-.00270	.03990	-.02060	-.01930	-.10770	-.09050	.00570	566.90000
2.002	2.709	.18590	.04630	-.00120	.04500	-.01860	-.01550	-.11790	-.10220	.00270	566.90000
2.002	4.774	.20800	.05100	-.00010	.05110	-.01820	-.00970	-.12550	-.11540	.00030	566.90000
2.002	5.799	.21920	.05270	.00090	.05360	-.01670	-.00820	-.12900	-.11500	-.00020	566.90000
	GRADIENT	.01330	.00127	.00063	.00190	.00186	.00283	-.00415	-.00447	-.00053	.00000

ARC 97-747 04538 B C M F W1 V NOM. RM/L

(BEK036) (12 MAR 74)

REFERENCE DATA

9857 0 2.4210 36.0T. YMRP = 32.3010 IM.
 LREP 4 14.2440 IM. YMRP = .0500 IM.
 9858 2 28.1094 IM. ZMRP = 11.2300 IM.
 SCALE = .0350 SCALE

RUN NO. 75/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA = 10.000 ELEVOM = .000
 ALLROM = .500 80FLAP = -11.700
 SPDRK = 25.000 PUDDER = -10.000
 ELEV-L = .500 ELEV-R = .000

PARAMETRIC DATA

MACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
1.051	-1.050	.08500	-.03550	-.04220	-.07760	-.04270	-.02870	-.05050	-.06680	-.01430
1.051	-3.018	.10320	-.03270	-.04390	-.07660	-.03350	-.02930	-.04440	-.07560	-.01340
1.051	-.992	.11020	-.03440	-.04240	-.07600	-.02740	-.02340	-.09990	-.08160	-.01350
1.051	.522	.14070	-.03270	-.04140	-.07400	-.02370	-.02140	-.10310	-.08480	-.01340
1.051	1.037	.15250	-.03200	-.04190	-.07290	-.02090	-.02000	-.10350	-.08950	-.01410
1.051	3.567	.17710	-.03350	-.04170	-.07360	-.01600	-.01820	-.11040	-.09880	-.01600
1.051	5.099	.19320	-.03720	-.04460	-.08190	-.01420	-.01300	-.11640	-.10400	-.01650
1.051	6.112	.20240	-.03550	-.04420	-.08270	-.01260	-.01260	-.11950	-.10850	-.01640
1.051	7.135	.21190	-.03120	-.04370	-.08290	-.01190	-.01210	-.12330	-.11270	-.01590
1.051	8.172	.22140	-.02840	-.04320	-.08450	-.00860	-.01160	-.13110	-.12430	-.01660
GRADIENT	.01173	.00000	.00040	.00034	.00034	.00020	.00020	-.00259	-.00382	-.00041

RUN NO. 72/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHFI	CHFO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF
2.052	-3.421	.04280	-.03560	-.04440	-.07950	-.04440	-.02790	-.07950	-.05670	-.02100
2.052	-3.338	.05070	-.03370	-.04370	-.07910	-.03760	-.02800	-.08320	-.05270	-.02100
2.052	-1.356	.11560	-.03160	-.04360	-.08360	-.02660	-.02110	-.08690	-.07230	-.02100
2.052	-.342	.12230	-.02490	-.04350	-.08390	-.02650	-.01900	-.09230	-.07510	-.02100
2.052	.670	.13230	-.02420	-.04360	-.08470	-.02400	-.01740	-.09380	-.07970	-.02120
2.052	2.700	.15240	-.02330	-.04350	-.08330	-.01630	-.01290	-.10220	-.09120	-.02100
2.052	4.728	.16340	-.02460	-.04340	-.08070	-.01640	-.00960	-.10590	-.09940	-.02100
2.052	5.747	.15440	-.02440	-.04300	-.07940	-.01470	-.00660	-.11330	-.10450	-.02100
2.052	6.762	.14510	-.02360	-.04370	-.07930	-.01360	-.00410	-.11650	-.10820	-.02100
2.052	8.792	.13500	-.02360	-.04360	-.07920	-.01300	-.00390	-.12350	-.10260	-.02100
GRADIENT	.01264	.00000	.00037	.00028	.00028	.00263	.00025	-.00324	-.00456	-.00046



ARC 97-747 0433B B C M F W I V MOM. RN/L

(86R037) (12 MAR 74)

REFERENCE DATA

REF # 2.4210 90.FT. XMRP # 32.3510 IM.
 LREF # 14.2440 IM. YMRP # .0550 IM.
 BREF # 28.2504 IM. ZMRP # 11.2450 IM.
 SCALE # .0550 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 AIRLROM = .050 BOFLAP = -11.700
 SPDBRK = 25.000 RUDDER = -10.000
 ELEV-L = .005 ELEV-R = .000

RUN NO. 74/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	B
1.001	-5.042	.09000	-1.13800	-.07130	-.20930	-.03100	-.01920	-.07480	-.06350	-.05320	590.30000
1.001	-2.998	.10895	-1.14065	-.07140	-.21190	-.02840	-.01360	-.08160	-.06930	-.05480	590.30000
1.001	-.954	.12435	-1.14250	-.07140	-.21390	-.02340	-.01310	-.08760	-.07320	-.05750	590.30000
1.001	.564	.13495	-1.14225	-.07140	-.21365	-.01900	-.01170	-.09100	-.07455	-.05850	590.30000
1.001	1.563	.14690	-1.14075	-.07150	-.21225	-.01940	-.01210	-.09950	-.07890	-.05890	590.30000
1.001	3.133	.16650	-1.13850	-.07150	-.20950	-.01710	-.01170	-.10990	-.08480	-.05750	590.30000
1.001	5.175	.14535	-1.13100	-.07140	-.20310	-.01605	-.00970	-.10830	-.06255	-.05360	590.30000
1.001	6.202	.11350	-1.12650	-.07110	-.19910	-.01450	-.00740	-.10920	-.05210	-.04980	590.30000
1.001	7.222	.13040	-1.12475	-.07150	-.19620	-.01230	-.00640	-.10230	-.04680	-.04650	590.30000
1.001	9.272	.13290	-1.11710	-.07140	-.18850	-.00610	-.00170	-.08830	-.02220	-.04290	590.30000
	GRADIENT	.00949	.00040	.00005	.00044	.00185	.00033	-.00474	-.00256	-.00246	-.00000

RUN NO. 75/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	B
2.002	-5.415	.08320	-1.11250	-.06150	-.17400	-.02920	-.01900	-.06660	-.05640	-.06290	565.90000
2.002	-3.364	.09320	-1.11790	-.06180	-.17960	-.02640	-.00860	-.07190	-.05850	-.06340	565.90000
2.002	-1.329	.10390	-1.11930	-.06180	-.18130	-.02240	-.00930	-.07610	-.05945	-.06290	565.90000
2.002	-.304	.10750	-1.11940	-.06160	-.18100	-.02030	-.00760	-.07750	-.05810	-.06320	565.90000
2.002	.712	.11060	-1.12040	-.06170	-.18210	-.01870	-.00820	-.08060	-.05680	-.06360	565.90000
2.002	2.757	.11320	-1.11890	-.06300	-.18190	-.01800	-.01070	-.09210	-.05180	-.06460	565.90000
2.002	4.801	.09350	-1.11750	-.06290	-.18010	-.01820	-.01110	-.09000	-.03480	-.06320	565.90000
2.002	5.815	.08820	-1.11680	-.06270	-.17960	-.01820	-.01310	-.08570	-.03190	-.06330	565.90000
2.002	6.844	.08390	-1.11550	-.06340	-.17880	-.01630	-.01320	-.08240	-.02300	-.06450	565.90000
2.002	8.887	.05410	-1.09970	-.06280	-.17250	-.01030	-.01160	-.08000	-.03590	-.06270	565.90000
	GRADIENT	.00068	.00010	-.00018	-.00098	.00118	-.00023	-.00260	.00276	-.00007	-.00000

ARC 87-747 04338 B C M F W V NOM. RM/L

(08E038) (12 MAR 74)

REFERENCE DATA

REF = 2.4216 SQ.FT. XMRP = 32.3618 IN.
 LREF = 14.2448 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

BETA = .000 ELEVON = .000
 ALLROM = .000 BDFLAP = -11.700
 SPDRK = 83.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 77/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMRF
1.601	-1.494	-0.0870	.07830	.00170	.00000	-.22540	-.21850	-.22510	-.21020	.02200
1.601	-1.182	-0.0730	.06720	-.00430	.02890	-.22420	-.21440	-.22500	-.20630	.01830
1.601	1.378	-0.0680	.05350	-.01120	.04230	-.22320	-.20910	-.22170	-.20180	.01490
1.601	3.435	-0.0770	.03460	-.01930	.01510	-.21730	-.20310	-.21690	-.19570	.00970
1.601	5.200	-0.0750	.01540	-.02900	-.01350	-.21060	-.19690	-.20950	-.19010	.00430
1.601	7.370	-.02813	-.00680	-.03590	-.04270	-.20340	-.19100	-.20200	-.18440	-.00280
1.601	9.637	-.02925	-.02290	-.04000	-.06590	-.19720	-.18560	-.19540	-.17820	-.01200
1.601	12.730	-.01050	-.02270	-.04820	-.11090	-.19060	-.18170	-.18870	-.17320	-.02340
1.601	15.840	-.01030	-.09750	-.05890	-.13640	-.18120	-.17800	-.17900	-.16900	-.04150
1.601	18.940	-.00870	-.12345	-.06740	-.16690	-.17090	-.17710	-.16940	-.16990	-.05690
1.601	22.060	-.02200	-.15911	-.07910	-.23020	-.16700	-.16610	-.16610	-.15610	-.06710
1.601	25.170	-.01600	-.16930	-.09700	-.24930	-.16430	-.17050	-.16180	-.13480	-.08580
1.601	29.090	-.00090	-.18630	-.06470	-.27100	-.16330	-.17140	-.16530	-.11450	-.11800
1.601	30.000	-.00018	-.00000	-.00430	-.00000	-.00169	-.00315	-.00175	-.00294	-.00246
GRADIENT										

RUN NO. 81/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMR	CMEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMRF
2.002	-1.443	-0.21330	.03060	.00240	.04330	-.21750	-.19120	-.21400	-.18210	.01070
2.002	-1.182	-0.1360	.03960	-.00270	.03690	-.21660	-.18380	-.21360	-.17920	.00770
2.002	1.351	-0.1360	.02660	-.00840	.01840	-.21460	-.18760	-.21200	-.17670	.00430
2.002	3.414	-0.1310	.00950	-.01690	-.00750	-.20960	-.18310	-.20350	-.17200	-.00160
2.002	5.466	-0.1340	-.00960	-.02280	-.03260	-.20320	-.17150	-.20110	-.16820	-.00600
2.002	7.517	-0.1370	-.02860	-.02290	-.03750	-.19460	-.17490	-.19280	-.16330	-.01060
2.002	9.560	-0.1280	-.04560	-.03320	-.08000	-.18770	-.17090	-.18610	-.15870	-.01670
2.002	12.670	-0.10390	-.06750	-.04320	-.11120	-.18010	-.16630	-.17710	-.15410	-.02690
2.002	15.770	-0.10600	-.09030	-.05100	-.14040	-.17450	-.16370	-.16920	-.15300	-.04250
2.002	18.860	-.00090	-.11130	-.05760	-.16900	-.16290	-.14400	-.16070	-.14530	-.05860
2.002	21.990	-.02050	-.13460	-.06970	-.20020	-.15270	-.13270	-.15270	-.13060	-.07730
2.002	25.070	-.01650	-.15610	-.07370	-.23180	-.14400	-.08860	-.14510	-.10360	-.09540
2.002	28.980	-.01170	-.17220	-.07900	-.25120	-.13440	-.06370	-.14020	-.06560	-.11850
2.002	30.000	-.00000	-.00000	-.00000	-.00000	-.00164	-.00167	-.00136	-.00252	-.00252
GRADIENT										



ABC 97-747 GAS38 B C W F W V MOM. RM/L

(BEK039) (18 MAR 74)

REFERENCE DATA

BRI1 = 2.4819 80.77' ---FP = 32.3010 IM.
 LREF = 14.2447 IM. ---FP = .0000 IM.
 BECP = 20.1054 IM. ---FP = 11.2500 IM.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVOM = .000
 ATLR0M = .000 BOFLAP = -11.700
 SPDBPK = 85.000 PUCSEP = .000
 ELEV-L = .000 ELEV-R = .000

PUN NO. 787 5 RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CMB	CMEI	CHEO	CNET	CUL	CHLL	CHUR	CHLR	CMBF
1.001	-5.167	-0.824	.0395	-0.0000	.0599	-0.2330	-0.2300	-0.2070	-1.0220	.0136
1.001	-5.106	-0.598	.0632	-0.0040	.0599	-0.2247	-0.2260	-0.2191	-1.0230	.0160
1.001	-5.038	-0.565	.0872	-0.0080	.0634	-0.2180	-0.2191	-0.2070	-0.2380	.0184
1.001	-5.019	-0.550	.0677	-0.0070	.0645	-0.2200	-0.2191	-0.2170	-0.2090	.0190
1.001	1.018	-0.051	.0500	-0.0000	.0667	-0.2190	-0.2140	-0.2170	-0.2190	.0181
1.001	3.261	.0207	.0734	-0.0020	.0706	-0.2162	-0.2031	-0.2220	-0.2290	.0150
1.001	5.147	.0610	.0761	-0.0090	.0742	-0.2040	-0.1920	-0.2230	-0.2190	.0185
1.001	6.186	.0887	.0785	-0.0160	.0762	-0.1810	-0.1850	-0.2210	-0.2360	.0110
GRADIENT	.0112	.0062	.0012	.0001	.0012	.0037	.0037	-.0007	-.0000	-.0000

PUN NO. 827 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CMB	CMEI	CHEO	CNET	CHUL	CHLL	CHUR	CHLR	CMBF
2.002	-5.544	-1.000	.0394	-0.0000	.0399	-0.2360	-0.2240	-0.1820	-1.0260	.0037
2.002	-5.471	-0.677	.0407	-0.0010	.0360	-0.2290	-0.2090	-0.2000	-1.0330	.0047
2.002	-5.414	-0.296	.0408	-0.0040	.0367	-0.2140	-0.1930	-0.2000	-1.0420	.0067
2.002	-5.386	-0.094	.0410	-0.0020	.0380	-0.2170	-0.1870	-0.2000	-1.0510	.0070
2.002	.656	.010	.0422	-0.0020	.0390	-0.2070	-0.1860	-0.2000	-1.0730	.0080
2.002	2.722	.0480	.0462	-0.0030	.0440	-0.1940	-0.1730	-0.2120	-0.2400	.0050
2.002	4.772	.0840	.0500	-0.0040	.0500	-0.1730	-0.1670	-0.2100	-0.2160	.0030
2.002	5.811	.1230	.0520	-0.0010	.0530	-0.1570	-0.1560	-0.2140	-0.2210	.0020
GRADIENT	.0096	.0023	.0007	.0000	.0010	.0037	.0037	-.0016	-.0000	-.0000

ARC 87-747 QAS38 B C M P W I V MOM. RN/L

(8EK040) (12 MAR 74)

REFERENCE DATA

SRF = 2.4210 80.FT. YMRP = 32.3016 IN.
 LRF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

ALPHA =
 AIRLOM =
 SPDRK =
 ELEV-L =

10.000 ELEVOM = .000
 .000 BOFLAP = -11.700
 85.000 RUDDER = .000
 .000 ELEV-R = .000

RUN NO. 79/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.043	-0.07800	-0.03650	-0.04160	-0.07800	-0.20960	-0.20780	-0.19000	-0.14940	-0.01710	589.10000
1.601	-3.016	-0.03180	-0.03340	-0.04270	-0.07610	-0.20220	-0.19840	-0.19000	-0.15690	-0.01850	589.10000
1.601	-0.987	-0.02200	-0.03580	-0.04150	-0.07730	-0.19780	-0.18900	-0.19350	-0.17120	-0.01350	589.10000
1.601	0.933	-0.00840	-0.03370	-0.04190	-0.07520	-0.19560	-0.18430	-0.19410	-0.17440	-0.01440	589.10000
1.601	1.651	0.07800	-0.03160	-0.04170	-0.07320	-0.19170	-0.17980	-0.19460	-0.18470	-0.01350	589.10000
1.601	3.075	0.03670	-0.03390	-0.04110	-0.07500	-0.18580	-0.17140	-0.19540	-0.19850	-0.01310	589.10000
1.601	5.118	0.06280	-0.03760	-0.04360	-0.08130	-0.17930	-0.16390	-0.19680	-0.20920	-0.01770	589.10000
1.601	6.126	0.07850	-0.03860	-0.04400	-0.08260	-0.17440	-0.15970	-0.19820	-0.21440	-0.01770	589.10000
1.601	7.154	0.10280	-0.03940	-0.04320	-0.08250	-0.16470	-0.15290	-0.19890	-0.22150	-0.01670	589.10000
1.601	9.169	0.16010	-0.03287	-0.04290	-0.07570	-0.13170	-0.13380	-0.19650	-0.23110	-0.01720	589.10000
GRADIENT	0.1454	0.00023	0.00013	0.00023	0.00037	0.00272	0.00444	0.00085	0.00651	0.00009	-0.00000

RUN NO. 83/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-3.422	-0.11500	-0.04340	-0.03740	-0.07970	-0.21300	-0.19840	-0.17100	-0.12540	-0.02500	579.90000
2.002	-1.389	-0.07650	-0.04620	-0.03740	-0.08340	-0.19950	-0.18840	-0.17620	-0.13520	-0.02050	579.90000
2.002	-0.2920	-0.04800	-0.03650	-0.03650	-0.08460	-0.18760	-0.17520	-0.18110	-0.13260	-0.01780	579.90000
2.002	0.342	-0.00810	-0.04930	-0.03610	-0.08560	-0.18240	-0.16680	-0.18260	-0.15940	-0.01660	579.90000
2.002	0.679	0.01130	-0.04380	-0.03620	-0.08600	-0.17920	-0.16500	-0.18270	-0.16780	-0.01730	579.90000
2.002	2.710	0.05900	-0.04680	-0.03340	-0.08420	-0.16780	-0.14730	-0.18740	-0.18670	-0.02190	579.90000
2.002	4.727	0.09890	-0.04710	-0.03480	-0.08190	-0.15040	-0.13750	-0.18970	-0.19670	-0.02430	579.90000
2.002	5.745	0.11950	-0.04540	-0.03370	-0.07910	-0.14320	-0.13290	-0.19160	-0.20100	-0.02510	579.90000
2.002	6.761	0.14770	-0.04360	-0.03350	-0.07710	-0.12920	-0.12480	-0.19450	-0.20750	-0.02680	579.90000
2.002	8.600	0.18480	-0.03680	-0.03290	-0.06970	-0.10100	-0.12170	-0.19510	-0.21250	-0.02750	579.90000
GRADIENT	0.2156	0.00010	0.00031	0.00031	0.00020	0.00502	0.00636	0.00163	0.00775	0.00064	-0.00000



ARC 97-747 04538 B C M F W I V MOM, RN/L

(BER041) (12 MAR 74)

REFERENCE DATA

SPT = 2.4210 80.FT. VPP = 32.3010 IN.
 LREF = 14.2440 IN. VHRF = .0000 IN.
 BREF = 58.1500 IN. ZHRP = 11.2100 IN.
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SFDGRK = 65.000 RUDDEP = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 80/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-5.049	.00270	-1.1160	-.07170	-.21330	-.18820	-.11510	-.15310	-.13300	-.03270	591.80000
1.601	-3.003	.01250	-1.14340	-.07110	-.21450	-.18250	-.12640	-.16450	-.15890	-.05530	591.80000
1.601	-.958	-.00610	-1.14420	-.07150	-.21550	-.17450	-.16210	-.16760	-.16280	-.06180	591.80000
1.601	.070	-.00570	-1.14350	-.07140	-.21490	-.17120	-.17020	-.17000	-.16570	-.06250	591.80000
1.601	1.101	-.00170	-1.14240	-.07140	-.21390	-.16650	-.16370	-.17060	-.15800	-.06130	591.80000
1.601	3.140	-.00680	-1.14060	-.07100	-.21160	-.15420	-.14580	-.16870	-.12440	-.05780	591.80000
1.601	5.179	-.00780	-1.13450	-.07160	-.20590	-.14190	-.13230	-.17080	-.09560	-.05420	591.80000
1.601	6.207	-.00030	-1.12930	-.07160	-.20110	-.12480	-.12340	-.16650	-.08140	-.05160	591.80000
1.601	7.222	-.00710	-1.12620	-.07130	-.19740	-.10190	-.11770	-.15340	-.07120	-.04900	591.80000
1.601	9.238	-.06300	-1.11750	-.07170	-.18920	-.04990	-.11230	-.11850	-.10670	-.04655	591.80000
GRADIENT	-.00261	.00050	.00001	.00001	.00050	.00452	-.00265	-.00076	.00528	-.00034	-1.00000

RUN NO. 84/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-5.416	-.04530	-1.1230	-.06130	-.17380	-.15470	-.07510	-.13570	-.13930	-.06200	579.90000
2.002	-3.363	-.04920	-1.11840	-.06170	-.18010	-.16490	-.08420	-.15190	-.14640	-.06340	579.90000
2.002	-1.325	-.02890	-1.12020	-.06120	-.18130	-.15990	-.11290	-.15910	-.14280	-.06510	579.90000
2.002	-.306	-.00690	-1.12070	-.06160	-.18230	-.16120	-.12810	-.15940	-.13680	-.06640	579.90000
2.002	.729	-.01060	-1.12070	-.06160	-.18230	-.15880	-.12800	-.15860	-.11750	-.06700	579.90000
2.002	2.758	-.03290	-1.11920	-.06230	-.18150	-.14250	-.12060	-.15770	-.07250	-.06680	579.90000
2.002	4.806	-.03360	-1.11830	-.06250	-.18080	-.12880	-.11230	-.15360	-.05390	-.06420	579.90000
2.002	5.931	-.02270	-1.11750	-.06240	-.17980	-.10680	-.10700	-.14140	-.04980	-.06690	579.90000
2.002	6.844	-.00230	-1.11620	-.06270	-.17900	-.09480	-.09480	-.12740	-.04500	-.06620	579.90000
2.002	8.892	-.07430	-1.11010	-.06240	-.17250	-.04000	-.06120	-.11370	-.05980	-.06340	579.90000
GRADIENT	-.01104	.00008	-.00019	-.00019	-.00005	.00450	-.00273	-.00003	.01284	-.00014	-1.00000

ARC 97-747 QAS38 B C H F W V MOM. RN/L

(8EK042) (12 MAR 74)

REFERENCE DATA

REF = 2.4210 90.FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1094 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 10.000
 AILRON = 5.000 BDFLAP = -11.700
 SPOBRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = 5.000

RUN NO. 85/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	q
1.601	-1.482	-0.0410	.02890	-.01780	.01110	-.17870	-.15810	-.17850	-.13480	.00580	596.10000
1.601	-.188	-.00470	.01670	-.02330	-.00720	-.17680	-.13600	-.17570	-.13230	.00230	596.10000
1.601	1.353	-.00380	.00410	-.03110	-.02700	-.17180	-.13230	-.17100	-.12930	-.00100	596.10000
1.651	3.418	-.00290	-.01310	-.04010	-.03320	-.16320	-.12820	-.16470	-.12580	-.00620	596.10000
1.601	5.493	-.02340	-.03180	-.04760	-.07940	-.16010	-.12490	-.15940	-.12220	-.01040	596.10000
1.601	7.562	-.00280	-.03370	-.05030	-.10420	-.15370	-.12130	-.15380	-.11870	-.01940	596.10000
1.601	9.616	-.00330	-.07510	-.05650	-.13160	-.14910	-.11920	-.14900	-.11600	-.03180	596.10000
1.601	12.740	-.00270	-.10910	-.06590	-.17500	-.14300	-.11590	-.14320	-.11500	-.04450	596.10000
1.601	15.850	-.00110	-.14640	-.07850	-.22480	-.13840	-.11380	-.13890	-.11220	-.06020	596.10000
1.601	18.960	-.00090	-.17790	-.08730	-.26520	-.13200	-.11070	-.13350	-.10830	-.07130	596.10000
1.601	22.080	-.00160	-.20200	-.09500	-.29710	-.12680	-.09840	-.12870	-.09810	-.08220	596.10000
1.601	25.210	-.00670	-.22220	-.10150	-.30390	-.13020	-.09230	-.13270	-.09650	-.09810	596.10000
1.601	28.360	-.01180	-.24500	-.11030	-.33530	-.12290	-.08170	-.13230	-.08410	-.12820	596.10000
GRADIENT		.00029	-.00851	-.00455	-.01066	.00283	.00266	.00285	.00174	-.00242	.00000

RUN NO. 86/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	q
2.002	-1.492	-.00330	.01330	-.01270	.05550	-.15720	-.11830	-.15700	-.11500	.00200	586.00000
2.002	-.208	-.00410	.00310	-.01790	-.01480	-.15460	-.11650	-.15340	-.11350	-.00540	586.00000
2.002	1.335	-.00320	-.01020	-.02390	-.03410	-.14970	-.11460	-.14960	-.11160	-.00350	586.00000
2.002	3.397	-.00370	-.02610	-.03180	-.03790	-.14430	-.11210	-.14430	-.10840	-.00890	586.00000
2.002	5.449	-.00280	-.04400	-.03870	-.08270	-.13910	-.10970	-.13980	-.10610	-.01260	586.00000
2.002	7.521	-.00200	-.06390	-.04480	-.10860	-.13370	-.10630	-.13450	-.10350	-.01810	586.00000
2.002	9.565	-.00160	-.08070	-.05020	-.13090	-.12940	-.10320	-.13000	-.10080	-.02390	586.00000
2.002	12.650	-.00160	-.10350	-.05860	-.16230	-.12300	-.09900	-.12400	-.09640	-.03780	586.00000
2.002	15.770	-.00190	-.12560	-.06590	-.19150	-.11900	-.09410	-.11990	-.09510	-.05080	586.00000
2.002	18.870	-.00640	-.14750	-.07360	-.22110	-.11250	-.08310	-.11340	-.08850	-.06710	586.00000
2.002	21.970	-.00690	-.17230	-.08410	-.25640	-.10480	-.07010	-.10660	-.07520	-.08530	586.00000
2.002	25.100	-.00610	-.19890	-.09320	-.29210	-.09610	-.05660	-.10050	-.05930	-.10880	586.00000
2.002	28.260	-.01060	-.21800	-.10110	-.31910	-.07410	-.03250	-.08410	-.03310	-.13610	586.00000
GRADIENT		.00002	-.00810	-.00390	-.01198	.00270	.00126	.00258	.00135	-.00223	.00000



ARC 87-747 04538 B C M F VI V NOM. RN/L

(06K003) (12 MAR 74)

REFERENCE DATA

BREF = 2.421' 50. FT. XMP = 32.3010 IN.
 LREF = 14.244' IN. WMRP = .0500 IN.
 BREF = 20.100' IN. WMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .090 ELEVOM = .000
 AILROM = 15.000 8DFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = 15.000 ELEV-R = -15.000

RUN NO. 88/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CMS	CHEI	CHEO	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.465	-0.0040	.240	.04920	.28160	-.17200	-.12130	-.17270	-.12020	-.12130	-.17270	-.12020	.02030	592.70000
1.601	-1.193	.00090	.22170	.04340	.26510	-.17150	-.11910	-.17000	-.17150	-.11910	-.17000	-.11860	.01770	592.70000
1.601	1.354	.00350	.21250	.04010	.25260	-.16970	-.11660	-.17000	-.16970	-.11660	-.17000	-.11590	.01380	592.70000
1.601	3.429	.00053	.15630	.03200	.22030	-.16600	-.11320	-.16710	-.16600	-.11320	-.16710	-.11290	.00790	592.70000
1.601	5.489	.00080	.16740	.02270	.19010	-.16050	-.10990	-.16140	-.16050	-.10990	-.16140	-.10990	.00140	592.70000
1.601	7.562	.00063	.15000	.01610	.16610	-.15470	-.10710	-.15560	-.15470	-.10710	-.15560	-.10680	-.00670	592.70000
1.601	9.618	.00100	.12290	.01010	.13300	-.14920	-.10400	-.15030	-.14920	-.10400	-.15030	-.10360	-.01800	592.70000
1.601	12.750	.00020	.07110	.00120	.11460	-.14460	-.10120	-.14540	-.14460	-.10120	-.14540	-.10070	-.03120	592.70000
1.601	15.640	.00280	.02980	-.00800	.02180	-.13930	-.09870	-.14040	-.13930	-.09870	-.14040	-.10050	-.04470	592.70000
1.601	18.950	.00430	.00050	-.01520	-.01470	-.13130	-.09460	-.13360	-.13130	-.09460	-.13360	-.09650	-.05590	592.70000
1.601	22.060	.00450	-.02130	-.02220	-.04350	-.13100	-.08610	-.13320	-.13100	-.08610	-.13320	-.08840	-.07250	592.70000
1.601	25.180	.00790	-.04870	-.02870	-.07740	-.13400	-.08110	-.13710	-.13400	-.08110	-.13710	-.08590	-.08640	592.70000
1.601	28.110	.01560	-.06030	-.03040	-.09090	-.12110	-.06830	-.13460	-.12110	-.06830	-.13460	-.07040	-.10910	592.70000
GRADIENT	.00018	-.00883	-.00338	-.00125	-.00125	.00125	.00165	.00122	.00125	.00165	.00122	.00152	-.00255	-.00000

RUN NO. 89/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHEI	CHEO	CHUL	CHLL	CHUR	CHLR	CHBF	Q		
2.002	-1.495	-.00990	.17190	.04650	.21850	-.15570	-.10610	-.15090	-.15570	-.10610	-.15090	-.10100	584.50000	
2.002	-1.201	-.01020	.15120	.04020	.19740	-.15490	-.10540	-.15060	-.15490	-.10540	-.15060	-.09940	.00800	584.50000
2.002	1.341	-.00970	.14510	.03530	.18040	-.15170	-.10390	-.14790	-.15170	-.10390	-.14790	-.09800	.00450	584.50000
2.002	3.397	-.00920	.12710	.02820	.15320	-.14640	-.10090	-.14320	-.14640	-.10090	-.14320	-.09500	.00060	584.50000
2.002	5.448	-.00800	.10470	.02210	.12670	-.14080	-.09840	-.13830	-.14080	-.09840	-.13830	-.09280	-.00360	584.50000
2.002	7.500	-.00740	.08330	.01590	.09890	-.13540	-.09490	-.13290	-.13540	-.09490	-.13290	-.08990	-.01050	584.50000
2.002	9.562	-.00720	.05990	.01040	.07030	-.13030	-.09200	-.12850	-.13030	-.09200	-.12850	-.08690	-.02930	584.50000
2.002	12.660	-.00740	.03480	.00320	.03800	-.12400	-.08740	-.12150	-.12400	-.08740	-.12150	-.08290	-.04430	584.50000
2.002	15.800	-.00490	.01550	-.00470	.01070	-.11940	-.08290	-.11750	-.11940	-.08290	-.11750	-.07990	-.05990	584.50000
2.002	18.860	-.00010	-.00830	-.01330	-.02150	-.11220	-.07160	-.11090	-.11220	-.07160	-.11090	-.07260	-.07800	584.50000
2.002	21.950	.00300	-.03210	-.02020	-.05230	-.10440	-.05820	-.10440	-.10440	-.05820	-.10440	-.06120	-.07780	584.50000
2.002	25.080	.00640	-.05270	-.02590	-.07860	-.09440	-.04320	-.09680	-.09440	-.04320	-.09680	-.04720	-.01050	584.50000
2.002	28.990	.00710	-.06560	-.02960	-.09540	-.07430	-.02270	-.07790	-.07430	-.02270	-.07790	-.02620	-.01390	584.50000
GRADIENT	.00017	-.00899	-.00366	-.00126	-.00126	.00126	.00108	.00164	.00126	.00108	.00164	.00122	-.00196	-.00000

ARC 97-747 Q4358 B C M F W I V MON. RM/L

(BER044) (12 MAR 74)

REFERENCE DATA

BRP = 2.4210 90-FT. YMRP = 32.3010 IN.
 LRF = 14.2440 IN. YMRP = .0000 IN.
 BRP = 28.1004 IN. ZMRP = 11.2590 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = -10.000
 AIRLOW = 15.000 BDFLAP = -11.700
 SPDRK = 59.000 RUDDER = .000
 ELEV-L = 5.000 ELEV-R = -25.000

RUN NO. 81/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	Q
1.600	-1.469	-0.0660	.31460	.05840	.37500	-1.17610	-1.13680	-1.17570	-1.13240	.02620	600.20000
1.600	-1.194	-0.0640	.30790	.04930	.35720	-1.17590	-1.13530	-1.17330	-1.13150	.02290	600.20000
1.600	1.365	-0.0620	.29260	.04070	.33260	-1.17290	-1.13310	-1.16870	-1.12920	.01930	600.20000
1.600	3.428	-0.0620	.27380	.03100	.30480	-1.16700	-1.12930	-1.16410	-1.12590	.01440	600.20000
1.600	5.488	-0.0610	.24600	.02460	.27060	-1.16120	-1.12640	-1.15840	-1.12300	.01090	600.20000
1.600	7.526	-0.0630	.22460	.02010	.24470	-1.15600	-1.12370	-1.15310	-1.12040	.00320	600.20000
1.600	9.608	-0.0560	.19240	.01800	.21030	-1.15000	-1.12020	-1.14750	-1.11710	-0.00500	600.20000
1.600	12.710	-0.0630	.14730	.01260	.15990	-1.14450	-1.11790	-1.14200	-1.11410	-0.01760	600.20000
1.600	15.830	-0.0470	.08740	.00650	.09400	-1.14010	-1.11600	-1.13830	-1.11320	-0.03490	600.20000
1.600	18.950	-0.0640	.06140	.00100	.06250	-1.13300	-1.11260	-1.13140	-1.10760	-0.04980	600.20000
1.600	22.090	-0.0490	.03270	-0.00400	.02860	-1.12920	-1.10100	-1.12700	-1.09830	-0.06790	600.20000
1.600	25.180	.00200	-0.00210	-0.00910	-0.11120	-1.12610	-0.99210	-1.12790	-0.99440	-0.08580	600.20000
1.600	29.110	-0.05980	-0.00510	-0.01050	-0.15600	-1.13200	-0.98670	-1.12910	-0.97980	-0.10930	600.20000
GRADIENT		.00005	-0.00855	-0.00556	-0.01411	.00226	.00134	.00243	.00136	-0.00240	-1.00000

RUN NO. 90/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHRF	Q
2.002	-1.459	-0.0700	.24150	.05480	.29530	-1.15430	-1.10920	-1.15020	-1.10630	.01270	565.80000
2.002	-1.198	-0.0700	.22950	.04460	.27400	-1.15170	-1.10860	-1.14850	-1.10480	.01030	565.80000
2.002	1.357	-0.0670	.21720	.04540	.26260	-1.14800	-1.10690	-1.14460	-1.10350	.00690	565.80000
2.002	3.380	-0.0630	.19850	.03740	.23580	-1.14260	-1.10430	-1.13980	-1.10060	.00410	565.80000
2.002	5.450	-0.0620	.16520	.03470	.19990	-1.13730	-1.10230	-1.13480	-0.99860	.00010	565.80000
2.002	7.498	-0.0420	.13840	.02710	.16540	-1.13210	-0.99900	-1.13080	-0.99620	-0.00610	565.80000
2.002	9.556	-0.0350	.11100	.02430	.13610	-1.12670	-0.99580	-1.12570	-0.99330	-0.01190	565.80000
2.002	12.640	-0.0340	.08900	.01480	.10300	-1.12030	-0.99160	-1.11930	-0.98920	-0.02490	565.80000
2.002	15.730	-0.0060	.06690	.00800	.07490	-1.11650	-0.98710	-1.11500	-0.98500	-0.04000	565.80000
2.002	18.810	.00320	.03760	.00150	.03910	-1.11100	-0.97610	-1.10960	-0.98070	-0.03670	565.80000
2.002	21.950	.00360	.00800	-0.00470	.00330	-1.10470	-0.96400	-1.10420	-0.96830	-0.07420	565.80000
2.002	25.060	.00310	-0.01250	-0.00960	-0.02210	-0.99270	-0.95240	-0.99490	-0.95030	-0.09390	565.80000
2.002	28.940	.00180	-0.01950	-0.01260	-0.03220	-0.97920	-0.93180	-0.97860	-0.93020	-0.11450	565.80000
GRADIENT		.00015	-0.00879	-0.00314	-0.01195	.00243	.00104	.00220	.00111	-0.00180	-1.00000



ARC 97-747 0433B B C M F W1 V NOM. RN/L

(BEX045) (12 MAR 74)

REFERENCE DATA

MREF = 2.4210 98.FT. ARP = 32.3010 IN.
 LREF = 14.2440 IN. YAR = .0000 IN.
 BREF = 26.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0050 SCALE

BETA = .000 ELEVOM = -20.000
 AILROM = 5.000 BDFLAP = -11.700
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = -15.000 ELEV-R = -25.000

PARAMETRIC DATA

RUN NO. 93/ 0 RN/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHCI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.600	-1.776	-0.0610	.31430	.05740	.37170	-1.8160	-1.1320	-1.1790	-1.12840	.03630	598.40000
1.600	-1.198	-0.0594	.30690	.04910	.35600	-1.1790	-1.1310	-1.1770	-1.12740	.03450	598.40000
1.600	1.327	-0.0610	.29200	.03940	.33140	-1.1720	-1.1290	-1.1740	-1.12560	.03140	598.40000
1.600	5.403	-0.0510	.27250	.02990	.30240	-1.1720	-1.1250	-1.16900	-1.12280	.02990	598.40000
1.600	5.496	-0.0470	.24540	.02460	.26990	-1.1650	-1.1220	-1.1630	-1.12020	.02900	598.40000
1.600	7.572	-0.0350	.21970	.02000	.23970	-1.1580	-1.1200	-1.1570	-1.11710	.01360	598.40000
1.600	9.642	-0.0440	.18890	.01800	.20690	-1.1540	-1.1170	-1.15240	-1.11440	.00510	598.40000
1.600	12.720	-0.0610	.14460	.01260	.15720	-1.14870	-1.11320	-1.14660	-1.11120	-.00660	598.40000
1.600	15.830	-0.0520	.08630	.00600	.09230	-1.1320	-1.1130	-1.14150	-1.10960	-.02350	598.40000
1.600	18.920	-0.0840	.06110	.00000	.06160	-1.13510	-1.10910	-1.13260	-1.10320	-.03960	598.40000
1.600	22.120	-0.0690	.03170	-.00450	.02720	-1.13010	-1.09600	-1.12750	-1.09170	-.05840	598.40000
1.600	25.160	-0.0140	-.00150	-.00970	-.01120	-1.13360	-.08990	-1.13170	-1.09050	-.07310	598.40000
1.600	29.100	-0.1210	-.00460	-.01090	-.01570	-1.13190	-.07890	-1.12600	-1.07270	-.09320	598.40000
GRADIENT		.00018	-.00875	-.00365	-.01440	.00214	.00137	.00215	-.00116	-.00215	.00000

RUN NO. 92/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHCI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.476	-0.0230	.24130	.05600	.29730	-1.15700	-1.10810	-1.15510	-1.10770	.01940	565.40000
2.002	-1.209	-0.0170	.22830	.04690	.27430	-1.15530	-1.10710	-1.15370	-1.10690	.01790	565.40000
2.002	1.336	-0.0150	.21720	.04680	.26400	-1.15130	-1.10590	-1.15040	-1.10550	.01550	565.40000
2.002	5.358	-0.0120	.19810	.03990	.23810	-1.14620	-1.10330	-1.14590	-1.10240	.01200	565.40000
2.002	5.464	-0.0020	.16580	.03610	.20190	-1.14090	-1.10060	-1.14140	-1.10030	.00870	565.40000
2.002	7.520	-0.0070	.13940	.02860	.16800	-1.13590	-1.09770	-1.13640	-1.09790	.00240	565.40000
2.002	9.522	-.0000	.11510	.02400	.13920	-1.13080	-1.09530	-1.13150	-1.09520	-.00200	565.40000
2.002	12.630	-.0000	.09030	.01600	.10620	-1.12420	-1.09120	-1.12530	-1.09110	-.01590	565.40000
2.002	15.730	-.00320	.06710	.00840	.07550	-1.12000	-1.08740	-1.12090	-1.08970	-.03470	565.40000
2.002	18.640	-.00610	.03700	.00150	.03860	-1.11450	-1.07710	-1.11620	-1.08150	-.04940	565.40000
2.002	21.950	-.00470	.00690	-.00470	.00420	-1.10920	-1.06580	-1.11120	-1.06840	-.06600	565.40000
2.002	25.010	-.00390	-.01310	-.00990	-.02290	-.09800	-.05150	-1.10250	-.05140	-.08470	565.40000
2.002	29.950	-.00300	-.01910	-.01260	-.03170	-.07680	-.03030	-.08250	-.02760	-.10270	565.40000
GRADIENT		.00021	-.00875	-.00269	-.01162	.00229	.00096	.00194	-.00114	-.00154	.00000

ARC 97-747 04538 B C M F W1 V NOM. RM/L

(BER046) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 86.FT. ZMRP = 32.3010 IN.
 LRFP = 14.2445 IN. YMRP = .0000 IN.
 BRFP = 28.1004 IN. ZMRP = 11.2500 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = .000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPBRK = 85.000 RUDDER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 94/ 0 RM/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF	Q
1.601	-5.159	.03940	.05800	-.00430	.03170	-.21380	-.17850	-.21210	-.21560	.01310	589.70000
1.601	-5.103	.07620	.06190	-.00430	.03770	-.21180	-.16510	-.23950	-.21960	.01470	589.70000
1.601	-1.042	.10220	.06330	-.00490	.06040	-.21080	-.15450	-.23960	-.22800	.01770	589.70000
1.601	-.912	.11350	.06860	-.00490	.06160	-.20950	-.15110	-.24020	-.23390	.01860	589.70000
1.601	1.012	.12570	.06880	-.00420	.06460	-.20760	-.14770	-.24190	-.23900	.01740	589.70000
1.601	3.079	.13360	.07250	-.00350	.06950	-.20240	-.13980	-.24540	-.23040	.01430	589.70000
1.601	5.143	.16530	.07650	-.05230	.07410	-.18710	-.13150	-.24800	-.25590	.01250	589.70000
GRADIENT	.01212	.00171	.00222	.00222	.00192	.00152	.00401	-.00155	-.00502	-.00007	-.00000

RUN NO. 99/ 0 RM/L = 2.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CMET	CHUL	CHLL	CHUR	CHLR	CMBF	Q
2.002	-5.549	.01750	.03720	-.00640	.03580	-.18960	-.16530	-.19050	-.18190	.00360	583.70000
2.003	-5.478	.07150	.03860	-.00570	.03260	-.18430	-.14660	-.21440	-.19000	.00440	583.70000
2.002	-1.418	.10710	.03910	-.00470	.03440	-.17650	-.13470	-.22050	-.19990	.00660	583.70000
2.003	-.391	.12470	.04510	-.00330	.03520	-.17600	-.12900	-.22330	-.20720	.00720	583.70000
2.003	.640	.14790	.04140	-.00330	.03810	-.17430	-.12250	-.22720	-.21740	.00730	583.70000
2.003	2.700	.18700	.04630	-.00190	.04440	-.16950	-.11450	-.23450	-.23590	.00530	583.70000
2.002	4.766	.22610	.05050	-.00070	.04930	-.15860	-.10570	-.24290	-.24970	.00370	583.70000
GRADIENT	.01913	.00149	.00262	.00262	.00212	.00296	.00511	-.00347	-.00761	-.00016	-.00000



ARC 97-747 0453B B C M F W1 V MOM. RM/L

(BEK047) (12 MAR 74)

REFERENCE DATA

REF # 2.4210 SQ.FT. TREF = 32.3010 IN.
 LREF # 14.2440 IN. TREF = .0000 IN.
 BREF # 28.1004 IN. ZREF = 11.2500 IN.
 SCALE # .0300 SCALE

ALPHA = 10.000 ELEVOM = .000
 AIRLON = .000 BDFLAP = -11.700
 SFCBRK = 65.000 PUCCER = -10.000
 ELEV-L = .000 ELEV-P = .000

PARAMETRIC DATA

RUN NO. 95/ C RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHP	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.001	-5.041	.54400	-.03200	-.54290	-.08120	-.18290	-.15030	-.15930	-.17400	-.01910	590.90000
1.001	-3.015	.06600	-.03400	-.54350	-.07800	-.17010	-.14030	-.20170	-.18460	-.01900	590.90000
1.001	-.986	.09240	-.03500	-.54210	-.07710	-.17440	-.13060	-.20460	-.19400	-.01500	590.90000
1.001	.525	.10710	-.03430	-.54140	-.07560	-.17300	-.12630	-.20610	-.20590	-.01450	590.90000
1.001	1.044	.12570	-.03330	-.53890	-.07010	-.17020	-.12240	-.20750	-.21080	-.01550	590.90000
1.001	3.073	.15520	-.03370	-.54050	-.07410	-.16290	-.11560	-.20950	-.22390	-.01730	590.90000
1.001	5.097	.18710	-.03670	-.54430	-.08100	-.15560	-.10780	-.20440	-.23440	-.01690	590.90000
1.001	7.137	.22120	-.03940	-.54510	-.08450	-.14020	-.09880	-.21580	-.24440	-.01580	590.90000
1.001	9.170	.26500	-.03310	-.54390	-.07700	-.11690	-.08520	-.21220	-.25490	-.01500	590.90000
GRADIENT	.01465	.05030	.00000	.00000	.00092	.00266	.00407	-.00130	-.00864	.00026	-.00000

RUN NO. 98/ D RM/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHEY	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.003	-5.417	.01990	-.04340	-.03630	-.07970	-.15990	-.13800	-.17000	-.14780	-.02290	583.30000
2.003	-3.377	.05190	-.04550	-.03790	-.08320	-.15670	-.13030	-.18030	-.15790	-.02110	583.30000
2.002	-1.359	.09120	-.04820	-.03740	-.08460	-.14920	-.11820	-.18370	-.17430	-.01770	583.30000
2.003	-.346	.10900	-.04980	-.03660	-.08660	-.14700	-.11230	-.18610	-.18220	-.01700	583.30000
2.003	.668	.13100	-.04870	-.03670	-.08540	-.14500	-.10710	-.19010	-.19100	-.01720	583.30000
2.003	2.694	.18320	-.04880	-.03640	-.08520	-.13690	-.09680	-.20300	-.21600	-.02100	583.30000
2.003	4.724	.22120	-.04760	-.03540	-.08290	-.13030	-.08780	-.21140	-.22790	-.02350	583.30000
2.003	6.757	.25930	-.04320	-.03480	-.07600	-.11620	-.07920	-.21650	-.24020	-.02620	583.30000
2.003	8.795	.29300	-.03720	-.03450	-.07160	-.09940	-.07770	-.21900	-.24360	-.02680	583.30000
GRADIENT	.02142	-.00019	.00129	.00010	.00010	.00311	.00523	-.00410	-.00899	-.00045	.00000

ARC 97-747 Q4338 B C M F W1 V MON. RM/L

(BEK048) (12 MAR 74)

REFERENCE DATA

SREF = 2.4210 36-FT. ZMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 BREF = 28.1004 IN. ZMRP = 11.2300 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = 20.000 ELEVON = .000
 AIRLON = .000 BDFLAP = -11.700
 SPCBRK = 85.000 RUOCER = -10.000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 96/ 0 RM/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-3.046	.08980	-.14260	-.07190	-.21410	-.14690	-.08520	-.14730	-.17470	-.03240	592.70000
1.601	-3.001	.11400	-.14360	-.07260	-.21640	-.14820	-.09290	-.16650	-.18660	-.03520	592.70000
1.601	-.954	.09610	-.14460	-.07180	-.21630	-.14320	-.11520	-.16650	-.19000	-.06160	592.70000
1.601	.063	.10700	-.14400	-.0716	-.21550	-.14050	-.11110	-.16850	-.19060	-.06070	592.70000
1.601	1.091	.11760	-.14280	-.07190	-.21470	-.13270	-.10420	-.17220	-.18240	-.03980	592.70000
1.601	3.131	.09840	-.13980	-.07150	-.21130	-.12510	-.09280	-.17950	-.13680	-.03610	592.70000
1.601	5.177	.06950	-.13350	-.07220	-.20570	-.11980	-.08590	-.18620	-.10910	-.03460	592.70000
1.601	7.225	.07750	-.12610	-.07230	-.19830	-.09010	-.07930	-.16540	-.08150	-.04030	592.70000
1.601	9.282	.12190	-.11620	-.07190	-.19010	-.04570	-.08120	-.12430	-.12440	-.04750	592.70000
GRADIENT	-.03124	.00067	.00016	.00083	.00400	.00055	-.00189	-.00768	-.00034	-.00000	

RUN NO. 97/ 0 RM/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CHR	CHEI	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-3.413	.12670	-.11230	-.06090	-.17280	-.12610	-.05590	-.13780	-.16590	-.06160	583.70000
2.002	-3.365	.14920	-.11790	-.06130	-.17940	-.13400	-.05620	-.16340	-.17590	-.06350	583.70000
2.002	-1.322	.11620	-.11970	-.06230	-.18200	-.13360	-.08300	-.16260	-.17020	-.06690	583.70000
2.002	-.207	.11040	-.11980	-.06260	-.18260	-.12860	-.08330	-.16550	-.15400	-.06600	583.70000
2.002	.714	.10310	-.12020	-.06280	-.18300	-.12100	-.07860	-.16990	-.13270	-.06710	583.70000
2.003	2.756	.03960	-.11930	-.06330	-.18260	-.11440	-.07630	-.17110	-.07920	-.06530	583.70000
2.002	4.800	.04770	-.11910	-.06370	-.18280	-.10630	-.07240	-.16630	-.06010	-.06530	583.70000
2.003	6.840	.04900	-.11720	-.06380	-.18100	-.07120	-.06710	-.13750	-.04980	-.06750	583.70000
2.003	8.886	.03920	-.11210	-.06410	-.17620	-.04090	-.04720	-.12770	-.05960	-.06530	583.70000
GRADIENT	-.01277	-.00008	-.00027	-.00033	.00372	-.00109	-.00071	-.00000	-.00018	-.00000	

ARC 97-747 Q4338 B C M F W I V MOM. RN/L SEAL.EL

(BER049) (12 MAR 74)

REFERENCE DATA

REF = 2.427 IN FT. IPR = 32.301 IN.
 LREF = 14.824 IN IPRF = .0000 IN.
 RREF = 28.1574 IN ZMPF = 11.2500 IN.
 SCALE = .0500 SCALE

PARAMETRIC DATA

BETA = .000 ELEVON = 15.000
 AIRLROM = .000 BDFLAP = 16.300
 SFBRRK = 55.000 RUDR = .000
 ELEV-L = 15.000 ELEV-R = 15.000

RUN NO. 100/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHET	CHEU	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
1.601	-1.466	-0.5840	-0.8250	-0.5960	-1.4210	-1.7130	-1.3480	-1.6910	-1.3540	-1.9590	590.60000
1.601	-1.197	-0.5620	-0.9360	-0.6140	-1.5500	-1.7030	-1.3330	-1.6830	-1.2860	-2.0780	590.60000
1.601	1.351	-0.5590	-1.0530	-0.6700	-1.7240	-1.6710	-1.3040	-1.6620	-1.2640	-2.2130	590.60000
1.601	3.413	-0.5550	-1.2420	-0.7500	-1.9920	-1.6280	-1.2670	-1.6110	-1.2290	-2.4080	590.60000
1.601	5.479	-0.5520	-1.4370	-0.8180	-2.2560	-1.5740	-1.2340	-1.5590	-1.1980	-2.6060	590.60000
1.601	7.544	-0.5530	-1.6760	-0.9010	-2.5780	-1.5240	-1.2030	-1.5100	-1.1670	-2.8570	590.60000
1.601	9.616	-0.5590	-1.9650	-0.9700	-2.9350	-1.4720	-1.1770	-1.4570	-1.1360	-3.1120	590.60000
1.601	12.720	-0.5520	-2.3190	-1.0320	-3.2830	-1.4190	-1.1490	-1.4040	-1.1120	-3.4250	590.60000
1.601	15.820	-0.5540	-2.6970	-1.0970	-3.7040	-1.3680	-1.1350	-1.3710	-1.0990	-3.7440	590.60000
1.601	18.930	-0.5760	-2.7810	-1.2060	-4.0770	-1.3550	-1.1250	-1.3320	-1.0710	-4.0190	590.60000
1.601	22.050	-0.5820	-2.9730	-1.3530	-4.3260	-1.3490	-1.1140	-1.3130	-1.0990	-4.3000	590.60000
1.601	25.170	-0.5610	-3.2410	-1.4530	-4.6440	-1.3500	-1.1060	-1.3340	-1.0970	-4.5230	590.60000
1.601	29.290	-0.5930	-3.2830	-1.4430	-4.7250	-1.3880	-1.0860	-1.3230	-1.0830	-4.7810	590.60000
GRADIENT		.00019	-.00847	-.00325	-.01173	.00180	.00166	.00174	.00153	-.00899	.00000

RUN NO. 101/ 0 RN/L = 2.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHR	CHET	CHEO	CHET	CHUL	CHLL	CHUR	CHLR	CHBF	Q
2.002	-1.470	-0.5080	-0.7020	-0.4490	-1.1120	-1.5040	-1.1880	-1.1640	-1.1130	-1.8230	580.10000
2.002	-2.213	-0.5030	-0.7830	-0.4540	-1.2770	-1.4960	-1.1830	-1.1460	-1.1160	-1.7130	580.10000
2.002	1.338	-0.5050	-0.9050	-0.5590	-1.4640	-1.4890	-1.1680	-1.1350	-1.0970	-1.8420	580.10000
2.002	3.389	-0.5090	-1.0750	-0.6280	-1.7040	-1.4820	-1.1350	-1.1970	-1.0670	-2.0180	580.10000
2.002	5.443	-0.5020	-1.2470	-0.6960	-1.9430	-1.3810	-1.1110	-1.1530	-1.0460	-2.2120	580.10000
2.002	7.498	-0.5080	-1.4360	-0.7690	-2.2040	-1.3200	-1.0770	-1.1070	-1.0170	-2.4000	580.10000
2.002	9.551	-0.5060	-1.6120	-0.8450	-2.4570	-1.2660	-1.0420	-1.0510	-0.9950	-2.6090	580.10000
2.002	12.650	-0.5080	-1.8430	-0.9450	-2.7880	-1.2100	-1.0030	-1.0160	-0.9410	-2.8330	580.10000
2.002	15.750	-0.5060	-2.0950	-1.0640	-3.1590	-1.1680	-0.9610	-1.0470	-0.9180	-3.0880	580.10000
2.002	18.850	-0.5180	-2.3770	-1.1830	-3.5620	-1.1200	-0.9220	-1.1540	-0.9820	-3.3680	580.10000
2.002	21.950	-0.5190	-2.6760	-1.3240	-3.9790	-1.0830	-0.8710	-1.0280	-0.9410	-4.0840	580.10000
2.002	25.050	-0.5540	-2.6940	-1.4110	-4.3940	-1.0960	-0.8590	-0.9950	-0.9560	-4.3280	580.10000
2.002	28.970	-0.5710	-3.2230	-1.4310	-4.7850	-1.0740	-0.8240	-1.0760	-0.9360	-4.9830	580.10000
GRADIENT		.00059	-.00774	-.00372	-.01146	.00173	.00112	.00140	.00130	-.00816	.00000

ARC 97-747 04538 B C M F W V NOM. RN/L SEAL.EL

(8EX050) (18 MAR 74)

REFERENCE DATA

BREF = 2.4510 86-FT. XMRP = 32.3010 IN.
 LREF = 14.2440 IN. YMRP = .0000 IN.
 SREF = 20.1004 IN. ZMRP = 11.2590 IN.
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETA = .000 ELEVOM = .000
 ALLROM = .000 BDELAP = 16.300
 SPDRK = 55.000 RUDDER = .000
 ELEV-L = .000 ELEV-R = .000

RUN NO. 102/ 0 RN/L = 2.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHEI	CHEO	CWET	CHUL	CHLL	CHUR	CHLR	CHBF
1.000	-1.471	-.00020	.00170	.02260	-.06430	-.16930	-.12800	-.17060	-.12740	-.17750
1.000	-.198	.00000	.06760	-.00450	.06320	-.16830	-.12870	-.17000	-.12520	-.18630
1.000	1.370	.00010	.02230	-.01140	.04090	-.16630	-.12380	-.16760	-.12260	-.19770
1.000	3.421	.00010	.03230	-.02090	.01160	-.16220	-.11900	-.15320	-.11800	-.21440
1.000	5.463	.00030	.01450	-.02990	-.01310	-.15660	-.11680	-.15770	-.11600	-.23190
1.000	7.525	.00140	-.00550	-.03310	-.03870	-.15130	-.11390	-.15330	-.11330	-.25610
1.000	9.597	.00180	-.02630	-.03940	-.06370	-.14620	-.11040	-.14810	-.11030	-.28200
1.000	12.730	.00090	-.06490	-.04930	-.11420	-.14110	-.10800	-.14230	-.10840	-.31610
1.000	15.810	.00310	-.09940	-.05960	-.15990	-.13720	-.10400	-.13860	-.10900	-.34600
1.000	18.930	.00400	-.13510	-.06850	-.20350	-.13110	-.10440	-.13290	-.10650	-.37630
1.000	22.040	.00350	-.16240	-.07710	-.23390	-.12630	-.09330	-.12880	-.09430	-.40870
1.000	25.130	.00810	-.18490	-.08420	-.26910	-.12040	-.08660	-.13120	-.09190	-.43540
1.000	29.090	.00990	-.19180	-.08800	-.27980	-.12520	-.07870	-.13410	-.07960	-.47450
GRADIENT	.00006	-.00000	-.00000	-.00475	-.01475	.00151	.00185	.00155	.00175	-.00755

RUN NO. 103/ 0 RN/L = 2.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CHW	CHEI	CHEO	CWET	CHUL	CHLL	CHUR	CHLR	CHBF
2.002	-1.472	-.01130	.05050	.00130	.05180	-.15060	-.11340	-.14470	-.10780	-.14740
2.002	-.727	-.01030	.03940	-.00390	.03560	-.14910	-.11260	-.14470	-.10670	-.15540
2.002	1.334	-.00910	.02390	-.01020	.01370	-.14630	-.11040	-.14330	-.10470	-.16580
2.002	3.396	-.00840	.00900	-.01810	-.00900	-.14180	-.10730	-.13890	-.10180	-.18030
2.002	5.409	-.00610	-.00930	-.02440	-.03370	-.13630	-.10520	-.13400	-.09930	-.19880
2.002	7.590	-.00690	-.02890	-.03100	-.06000	-.13070	-.10160	-.12920	-.09660	-.21990
2.002	9.546	-.00490	-.04380	-.03610	-.08190	-.12490	-.09770	-.12390	-.09390	-.24050
2.002	12.650	-.00610	-.06940	-.04370	-.11310	-.11860	-.09360	-.11700	-.08920	-.27420
2.002	15.770	-.00220	-.09140	-.05110	-.14250	-.11460	-.08960	-.11340	-.08780	-.30590
2.002	18.840	.00410	-.11300	-.05790	-.17080	-.10970	-.07640	-.10990	-.08120	-.34780
2.002	19.860	.00470	-.11920	-.06130	-.18030	-.10830	-.07250	-.10750	-.07850	-.36290
2.002	21.980	.00390	-.13680	-.06670	-.20350	-.10290	-.06370	-.10260	-.06980	-.38870
2.002	29.080	.00770	-.16160	-.07520	-.23660	-.09260	-.04690	-.09320	-.05360	-.43040
2.002	26.970	.00820	-.16110	-.08230	-.26340	-.08640	-.02320	-.07480	-.02700	-.47410
GRADIENT	.00060	-.00000	-.00351	-.00398	-.01248	.00181	.00129	.00121	.00123	-.00676