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AERODYNAMIC CHARACTERISTICS OF A SPACE SHUTTLE BOOSTER WITH A DELTA WING AND CANARD (M = 06. TO 2.0), MAY 1971 TESTS

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AERODYNAMIC CHARACTERISTICS OF A SPACE SHUTTLE BOOSTER WITH A DELTA WING AND CANARD (M = 0.6 TO 2.0)

MAY 1971 TESTS

By

Jack Brownson*, William Gallaher** and John DeBevoise**

SUMMARY

This report presents the results of wind tunnel tests of GD/Convair B-9U Space Shuttle Booster model (0.0076 scale) conducted in the 6-by 6-Foot Supersonic Wind Tunnel at NASA Ames Research Center. The purpose of the tests was to determine the transonic and low supersonic characteristics of this phase B booster final configuration. Six-component force and moment measurements were made at Mach numbers of 0.6, 0.9, 1.2, 1.5, and 2.0. At zero degrees sideslip the model was tested through an angle of attack range from -2° to 49° with particular emphasis on the range from -2° to 26°. At 2.5° sideslip, the angle of attack range was from -6° to 16°. Control effectiveness characteristics of canard, elevon, aileron, rudder, and body yaw flap were investigated.

* NASA-Ames

** GD/Convair

NOMENCLATURE
General

SYMBOL	PLOT SYMBOL	DEFINITION
a		speed of sound; ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psi
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\ V^2$, psf
RN/L	RN/L	unit Reynolds number; per ft
V		velocity; ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; ft^2, in^2
b	BREF	wing span or reference span; ft, in
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; ft, in
S	SREF	wing area or reference area; ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	XMRP	moment reference point on Z axis

SUBSCRIPTS

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

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	PLOT SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody-axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody-drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

In addition to the standard notation, the following are special to this test:

SYMBOL	PLOT SYMBOL	DEFINITION
I_c	IC	Canard incidence angle, both surfaces deflected symmetrically, positive for trailing edge down.
δ_e	DE ELEVTR	Effective elevator deflection angle of the inboard/outboard elevons, positive trailing edge down.
δ_a	DA AILRØN	Effective aileron deflection angle of outboard elevons, $\delta_a = \frac{1}{2}(\delta_L - \delta_R)$, positive trailing edge down.
δ_r	DR RUDDER	Rudder deflection angle, positive trailing edge left, viewed from rear.
δ_F	DF	Body flap deflection angle, positive trailing edge down.
C_{y_β}	DCY/DBETA	Increment of CY due to sideslip divided by the sideslip angle.
C_{n_β}	DCYN/DBETA	Increment of CYN due to sideslip divided by the sideslip angle.
C_{ℓ_β}	DCBL/DBETA	Increment of CBL due to sideslip divided by the sideslip angle.

CONFIGURATIONS INVESTIGATED

The model tested was an 0.0076 scale of the GD/Convair B-9U booster. In Table 3 and Figures B through F are presented component dimensions. The model components tested are described below:

Configuration Nomenclature

Symbol	Description
B_{22}	Basic body for B-9U wing booster with rocket engine shrouds but without rocket engines. Full scale length = 3067 inches.
C_8	Delta planform canard for B-9U booster with full scale exposed area of 503.99 ft^2 and AR = 1.87. Pivot point at 56% of root chord at full scale station 2024 in. and W.L. 450 in.
V_{10}	Basic vertical tail with full scale exposed area of 1500 ft^2, L.E. sweep = 35°, and rudder hinge line at 65% chord.
W_{19}	Delta wing for the B-9U booster, L.E. sweep of 53°, conical camber 20% semi-span from B.L. 340 in, with C_L design of 0.35. Semi-span measured from B.L. 340 in.
R_2, R_3	Rocket engines for B-9U booster. R_2 indicates a total of eight, R_3 indicates a total of twelve.
F_{7L}^{40}	Left hand body flap with simulated deflection of 40°. Full scale planform area of 75 sq. ft.

Configurations Tested

$B_{22}R_2C_8W_{19}V_{10}$

$B_{22}R_2C_8W_{19}V_{10}F_{7L}^{40}$

$B_{22}W_{19}R_2V_{10}$

$B_{22}V_{10}R_2$

$B_{22}C_8V_{10}R_2$

$B_{22}C_8W_{19}R_2$

TEST FACILITY DESCRIPTION

The NASA-Ames Research Center 6- by 6-Foot Supersonic Wind Tunnel is located at Moffett Field, California; it is a closed-circuit, variable pressure facility. The test section has a slotted floor and ceiling, allowing for continuous operation from Mach number 0.25 to 2.30 at stagnation pressures from 0.3 to 1.0 atmosphere for stagnation temperature of 560°R. These conditions allow Reynolds number variation from 1 - 5 x 10^6/foot and a dynamic pressure range from 200-1000 lbs/ft^2.

REDUCTION OF DATA

Aerodynamic forces and moments were measured with a six-component strain-gage balance. Cavity and base-pressure measurements were also obtained. These pressure measurements were used to make adjustments to the force data. With the model mounted on the straight sting or the blade sting, adjustments to the axial force were made to account for the difference in pressure between the balance cavity and model base. In addition, with the model mounted on the blade sting, adjustments were made to the normal force and pitching moment to account for the difference between the balance cavity pressure and the pressure adjacent to the sting cutout on the body upper surface. The equations used for these adjustments were:

Straight sting

$$CAT = C_A + (p_c - p_b)\left(\frac{A_{cavs}}{qS}\right)$$

Blade sting

$$CAT = C_A + (p_c - p_b)\left(\frac{A_{cavb}}{qS}\right)$$

$$CN = C_N + (p_c - p_{ref})\left(\frac{A_S}{qS}\right)$$

$$CIM = C_m - (p_c - p_{ref})\left(\frac{A_S}{qS\bar{c}}\right)(X_2)$$

with

p_c = pressure in sting cavity

p_b = average pressure on model base

p_{ref} = average pressure adjacent to blade cutout

REDUCTION OF DATA
(Continued)

Balance cavity base area (A_c)

with straight sting A_{cavs} = 4.114 in^2

with blade sting A_{cavb} = 4.460 in^2

Blade sting cutout planform area (A_S) = 1.775 in^2

Moment area from MRP to centroid of A_S; X_2 = 5.673 in

Reference model dimensions used in computing the aerodynamic coefficients

		Full Scale	Model Scale
Area (S_{ref})	= wing theoretical area	8451 ft^2	70.291 in^2
Length ($\bar{c}$)	= wing theoretical M.A.C.	71.721 ft	6.541 in
Span (b)	= wing span	143.5 ft	13.086 in

Total base area (A_b):

with straight sting, A_b = 8.853 in^2

with blade support, A_b = 8.47 in^2

XMRP Model Station 23.45

ZMRP Model Water Line 3.040

TABLE 1.

TEST AMES 66-563 DATA SET/RUN NUMBER

COLLATION SUMMARY

☐ PRETEST
☑ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION I_c	δa_L	δe_L	δe_R	δa_R	δ_r	δ_F	NO. OF RUNS	MACH 0.6	0.9	1.2	1.5	2.0					TEST RUN NUMBERS
RBA 150	$B_{22}C_8W_{19}V_{10}R_2$	A	2.5	0	0	0	0	0	0	-	5	5	4	3	2	1					
158					10	0	0	-10		-	5	10	9	8	7	6					
154					10	10	10	10		-	5	15	14	13	12	11					
254		B	0		10	10	10	10		-	5	20	19	18	17	16					
250					0	0	0	0		-	5	25	24	23	22	21					
251				-20						-	5	30	29	28	27	26					
252				-30						-	5	35	34	33	32	31					
256				+10						-	5	40	39	38	37	36					
257				+30						-	5	45	44	43	42	41					
253				0	-10	-10	-10	-10		-	5	50	49	48	47	46					
255					-20	-20	-20	-20		-	5	55	54	53	52	51					
258					10	0	0	-10		-	5	60	59	58	57	56					
259					0			0	10	-	5	75	74	73	72	71					
260	$B_{22}C_8W_{19}V_{10}R_2F_7L$								0	40	5	80	79	78	77	76					
220	$B_{22}W_{19}R_2V_{10}$			-						-	5	85	84	83	82	81					
210	$B_{22}V_{10}R_2$			-	-	-	-	-		-	5	65	64	63	62	61					
230	$B_{22}C_8V_{10}R_2$			0	-	-	-	-		-	5	70	69	68	67	66					
25A	$B_{22}C_8W_{19}V_{10}R_2$			20	0	0	0	0		-	5	90	89	88	87	86					
340	$B_{22}C_8W_{19}R_3$	C		0	0	0	0	0	-	-	5	95	94	93	92	91					

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CA	CLM	CBL	CYN	CY	CAB	CAC	L/D				10
										IDPVAR(1)	IDPVAR(2)	NDV

COEFFICIENTS: α or β SCHEDULES

αA = -6, -2, 0, 2, 4, 8, 12, 16, 0°

αB = -2, 0, 2, 4, 8, 12, 16, 20, 24, 26, 0°

αC = 20, 24, 28, 32, 36, 40, 44, 48, 32°

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TABLE 2

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. ft.)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	2.0×10^6	241	
0.9	↓	321	
1.2		384	
1.5		411	
2.0		414	

BALANCE UTILIZED: NASA Mark II 40065B 1.5 Inch

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1000 lb	± 5 lb	
SF	500 lb	± 2.5 lb	
AF	300 lb	± 0.5 lb	
PM	1500 in-lb	± 15 in-lb	
YM	625 in-lb	± 6.5 in-lb	
RM	800 in-lb	± 3 in-lb	

COMMENTS:

TABLE 3. MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: BODY - B_{22}

GENERAL DESCRIPTION: Basic body for B-9U booster with rocket engine shrouds but without rocket engines. Full scale length = 3067 in.

(0.0076 scale)

DRAWING NUMBER: 7620241

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	255.583 ft	23.309 in
Max. Width	36.0 ft	3.283 in
Max. Depth	40.274 ft	3.673 in
Fineness Ratio	6.346	6.346
Area		
Max. Cross-Sectional		
Planform	8728 ft^2	72.595 in^2
Wetted	29,644 ft^2	246.562 in^2
Base	1064.4 ft^2	8.853 in^2
Sting Cavity		4.016 in^2
Balance Moment Center		
Fuselage Station		23.439 in
Water Line		2.915 in
Reference Moment Center		
Fuselage Station	3125.4 in	23.450 in
Water Line	400.0 in	3.040 in

TABLE 3 - Continued

MODEL COMPONENT: Wing - W19

GENERAL DESCRIPTION: Delta wing for B-9U booster, 53 deg. L. E. Sweep, Conical Camber 20% Semi-Span from B.L. 340 in, Semi-Span Measured from B.L. 340.0 in, C_L design = 0.35 (0.0076 Scale)

DRAWING NUMBER: 76Z0241

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	8451 ft^2	70.291 in^2
Wetted		
Span	143.5 ft	13.086 in
Aspect Ratio	2.437	2.437
Rate of Taper		
Taper Ratio	0.1060	0.1060
Dihedral Angle, degrees	3.0	3.0
Incidence Angle, degrees	2.0	2.0
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	53.0	53.0
Trailing Edge	0.0	0.0
0.25 Element Line	44.9	44.9
Chords:		
Root (Wing Sta. 0.0)	106.5 ft	9.713 in
Tip, (equivalent)	11.289 ft	1.030 in
MAC	71.721 ft	6.541 in
Fus. Sta. of .25 MAC	3421.35 in	26.002 in
W.P. of .25 MAC		
B.L. of .25 MAC	26.172 ft	2.387 in
Airfoil Section		
Root	NACA 0007.1-64	NACA 0007.1-64
Tip	NACA 0010-64	NACA 0010-64
EXPOSED DATA		
Area	5045 ft^2	41.966 in^2
Span, (equivalent)	107.45 ft	9.799 in
Aspect Ratio	2.289	2.289
Taper Ratio	0.1366	0.1366
Chords		
Root	82.617 ft	7.535 in
Tip	11.289 ft	1.030 in
MAC	55.982 ft	5.105 in
Fus. Sta. of .25 MAC	3562.909 in	27.079 in
W.P. of .25 MAC		
B.L. of .25 MAC	38.033 ft	3.469 in

TABLE 3.- Continued

MODEL COMPONENT: Elevons

GENERAL DESCRIPTION: Elevons for delta wing (W_{19}) for B-9U booster

Dimensions for total of inboard and outboard elevons on one side

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	478.07 ft^2	3.976 in^2
Span (equivalent)	531.97 in	4.043 in.
Inb'd equivalent chord	193.95 in.	1.474 in.
Outb'd equivalent chord	64.87 in.	0.493 in.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	_____	_____
At Outb'd equiv. chord	_____	_____
Sweep Back Angles, degrees		
Leading Edge	_____	_____
Tailing Edge	0°	0°
Hingeline	13.4°	13.4°
Area Moment (Normal to hinge line)	_____	_____

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TABLE 3 - Continued

MODEL COMPONENT: Canard C_8

GENERAL DESCRIPTION: Delta planform canard for B-9U booster S_c = 503.99 ft^2 full scale, AR = 1.87, Pivot point @ 56%

Root chord @ fus. sta. (full scale) = 2024 in, W.L. (full scale) = 450 in (0.0076 scale)

DRAWING NUMBER: 76Z0241

DIMENSIONS - EXPOSED:	FULL SCALE	MODEL SCALE
Area	503.96 ft^2	4.192 in^2
Span (equivalent)	30.70 ft	2.800 in^2
Aspect Ratio	1.87	1.87
Taper Ratio	0.106	0.106
Dihedral Angle	0.0	0.0
Incidence Angle	0.0	0.0
Sweep Back Angles		
Leading Edge	60.0 deg	60.0 deg
Trailing Edge	0.0 deg	0.0 deg
0.25 Chord Line	52.4 deg	52.4 deg
Chords		
Root	29.698 ft	2.708 in
Tip	3.133 ft	0.286 in
MAC	19.998 ft	1.824 in
Airfoil Section		
Root	0014-6.6,5	0014-6.6,5
Tip	0014-6.6,5	0014-6.6,5
Fuse. Sta. of .25 MAC	2000.821 in	15.206 in
W.L. of .25 MAC	450.000 in	3.42 in
B.L. of .25 MAC	283.260 in	2.153 in
Pivot Location		
Percent root chord	56.0	56.0
Fuselage station	2024.000 in	15.382 in
Water line	450.000 in	3.42 in

TABLE 3 - Continued

MODEL COMPONENT: Vertical Tail V_{10}

GENERAL DESCRIPTION: Vertical tail for B-9U booster S_v = 1500 ft^2(full scale), L.E. sweep = 35°; 65% rudder hinge line

(0.0076 scale)

DRAWING NUMBER: 7620241

DIMENSIONS: (EXPOSED)	FULL-SCALE	MODEL SCALE
Area	1500 ft^2	12.476 in^2
Span (equivalent)	44.483 ft	4.057 in
Inb'd equivalent chord	46.342 ft	4.227 in
Outb'd equivalent chord	23.167 ft	2.113 in
Ratio Rudder chord/Vertical tail chord		
At Inb'd equiv. chord	0.35	0.35
At Outb'd equiv. chord	0.35	0.35
Sweep Back Angles, degrees		
Leading Edge	35.0	35.0
Tailing Edge	10.161	10.161
Hingeline	21.188	21.188
Area Moment (Normal to hinge line)		

TABLE 3 - Continued

MODEL COMPONENT: Rocket Engines - R_2, R_3

GENERAL DESCRIPTION: Rocket engines for B-9U booster, R_2 outside 8 engines only, R_3 all 12 engines

Dimensions given for one engine

DRAWING NUMBER /ENGINE: 76Z0241

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Length		0.73 in
Max. Width		0.547 in
Max. Depth		0.547 in
Fineness Ratio ℓ/d		1.335
Area		
Max. Cross-Sectional		.235 sq.in
Planform		.314 sq.in
Wetted		2.071 sq.in
Base		.235 sq.in

MODEL COMPONENT: Body Flap F_{7L}^{40}

GENERAL DESCRIPTION: Delta planform body flap with trailing edge at wing trailing edge, hinge line swept back 50 degrees. Full scale undeflected area = 75 sq. ft. (0.0076 scale).

DRAWING NUMBER: WT-71-106201 Sht. 1 of 1, Chg. Ltr. A

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area	75 sq.ft	0.624 sq.in
Span (equivalent)	11.2 ft	1.023 in
Aspect Ratio	1.68	1.68
Taper Ratio	0.0	0.0
Chords		
Root	13.4 ft	1.220 in
Tip	0.0 ft	0.0 in
Sweep Back Angles, degrees		
Leading Edge	50.0	50.0
Tailing Edge	0.0	0.0
Hingeline	50.0	50.0
Fuselage Station of Trailing Edge	4067 in	30.909 in
Butt Line of Root Chord	0.0 in	0.0 in

TABLE 4 - INDEX OF MODEL FIGURES

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Definition of Plot Type -

PLOT TYPE	PARAMETERS
1.	CN, CA, CLM, CL, CD, L/D, CAB vs. ALPHA CN vs. CLM, CL vs. CD
2.	CN, CA, CLM, CL, CD, L/D vs. MACH
3.	CN, CLM, CA, CAB vs. ALPHA CN vs. CLM
4.	ELVTRM, L/DTRM, CLTRIM, CDTRIM vs. MACH
5.	ICTRM, L/DTRM, CLTRIM, CDTRIM vs. MACH
6.	DCN, DCLM, DCA, DCL, DCD vs. ELEVTR
7.	DCN, DCLM, DCA, DCL, DCD vs. IC
8.	CY, CYN, CBL, CLN, CSL vs. ALPHA
9.	DCY/DBETA, DCYN/DBETA, DCBL/DBETA, DCLN/DBETA, DCSL/DBETA vs. MACH
10.	DCY, DCYN, DCBL, DCLN, DCSL vs. ALPHA
11.	DCY, DCYN, DCBL, DCN, DCLM, DCA vs. ALPHA

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

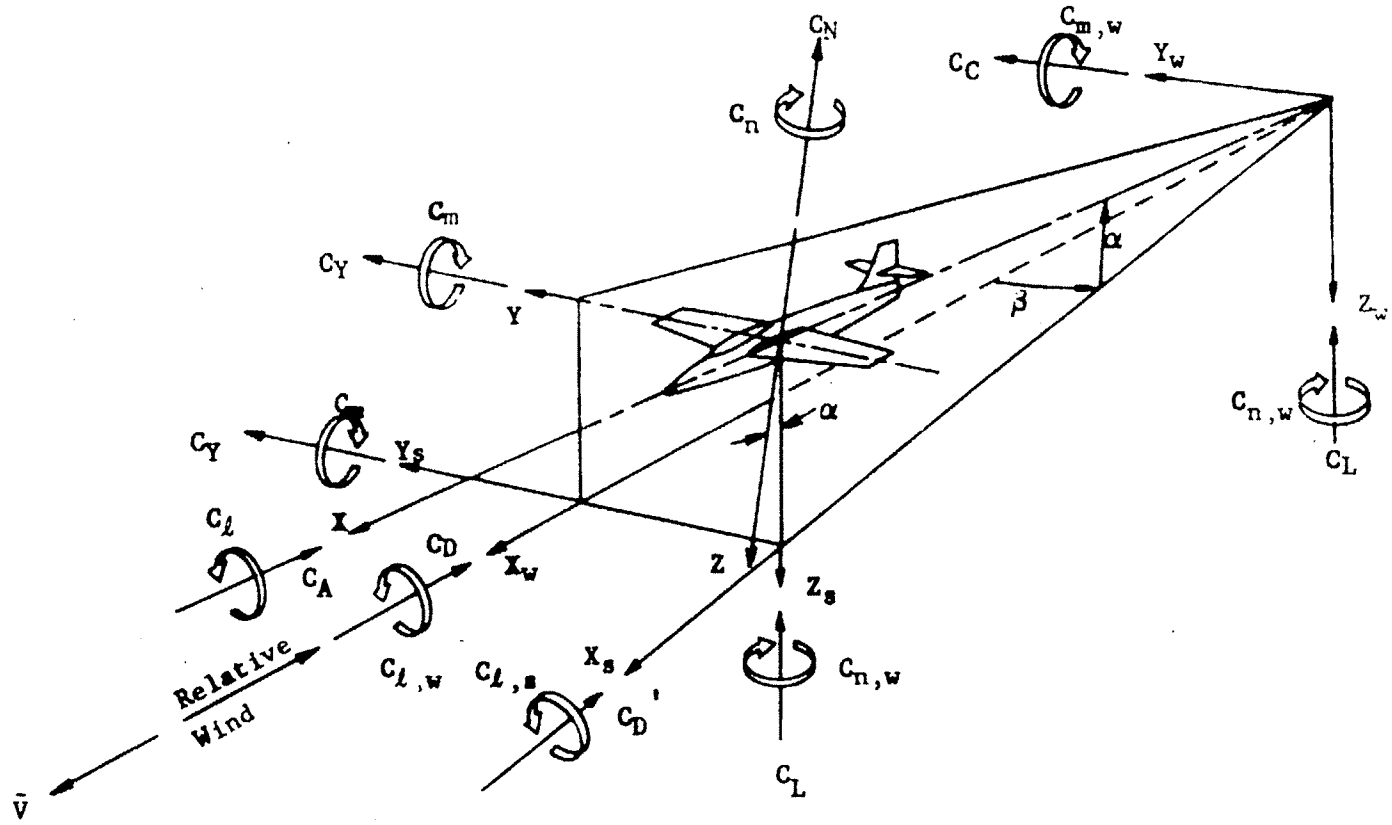


Figure A. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

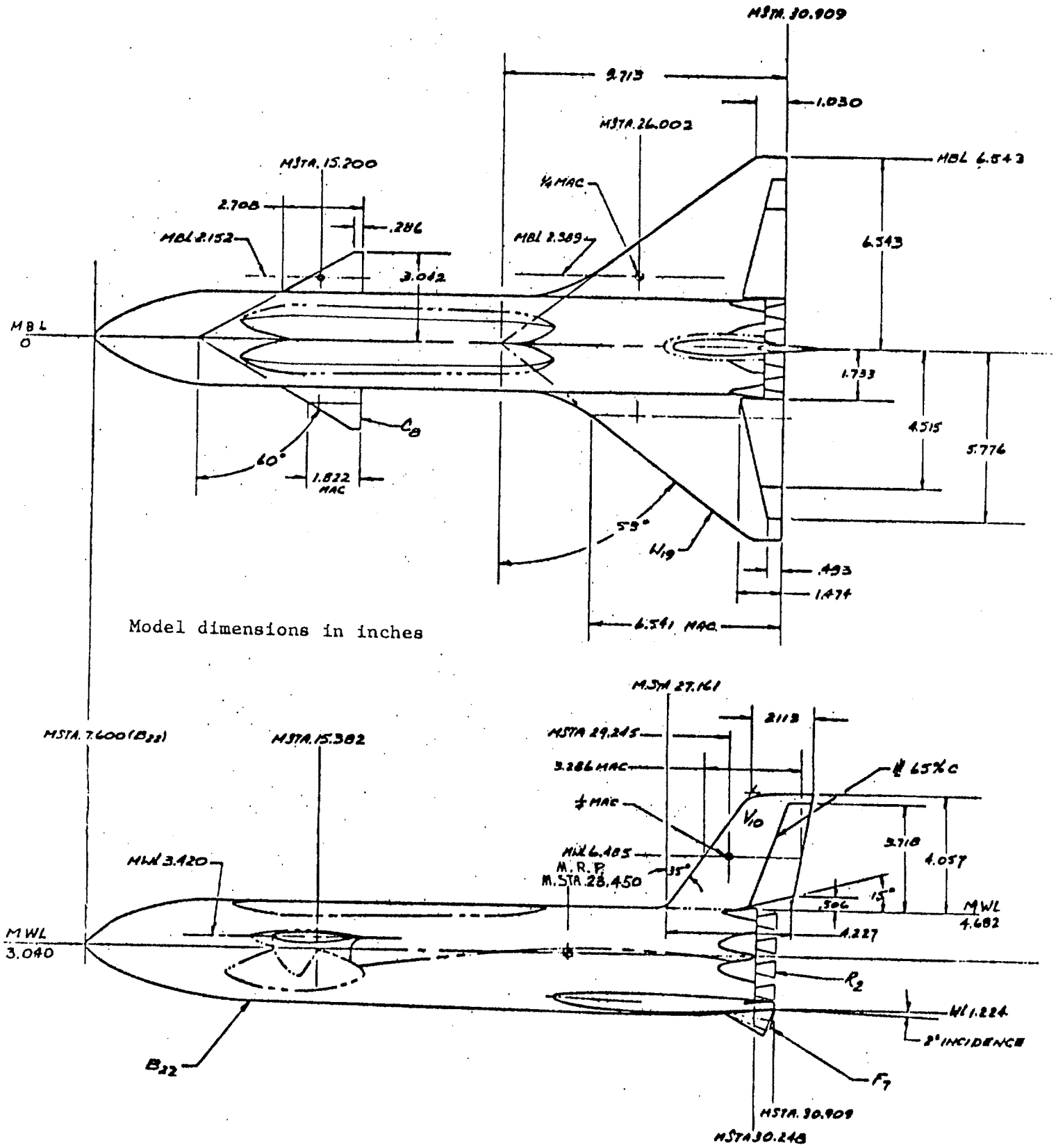
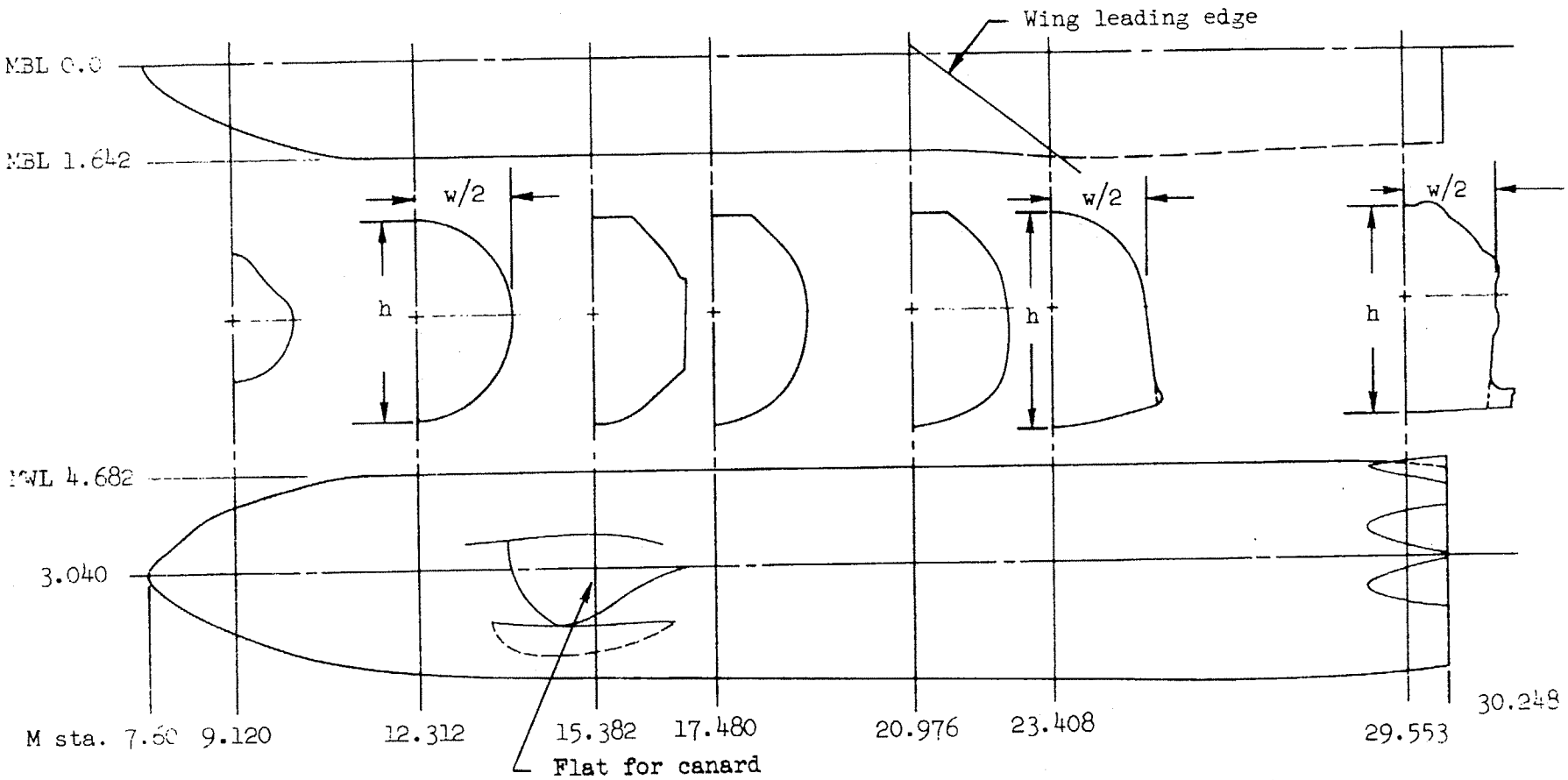


Figure B Model General Arrangement



Model dimensions in inches

M sta.	9.120	12.312	15.382	17.480	20.976	23.408	29.553
h	2.182	3.427	3.535	3.566	3.622	3.665	3.687
w/2	1.052	1.638	1.638	1.638	1.638	1.638	1.638

Figure C Booster Body

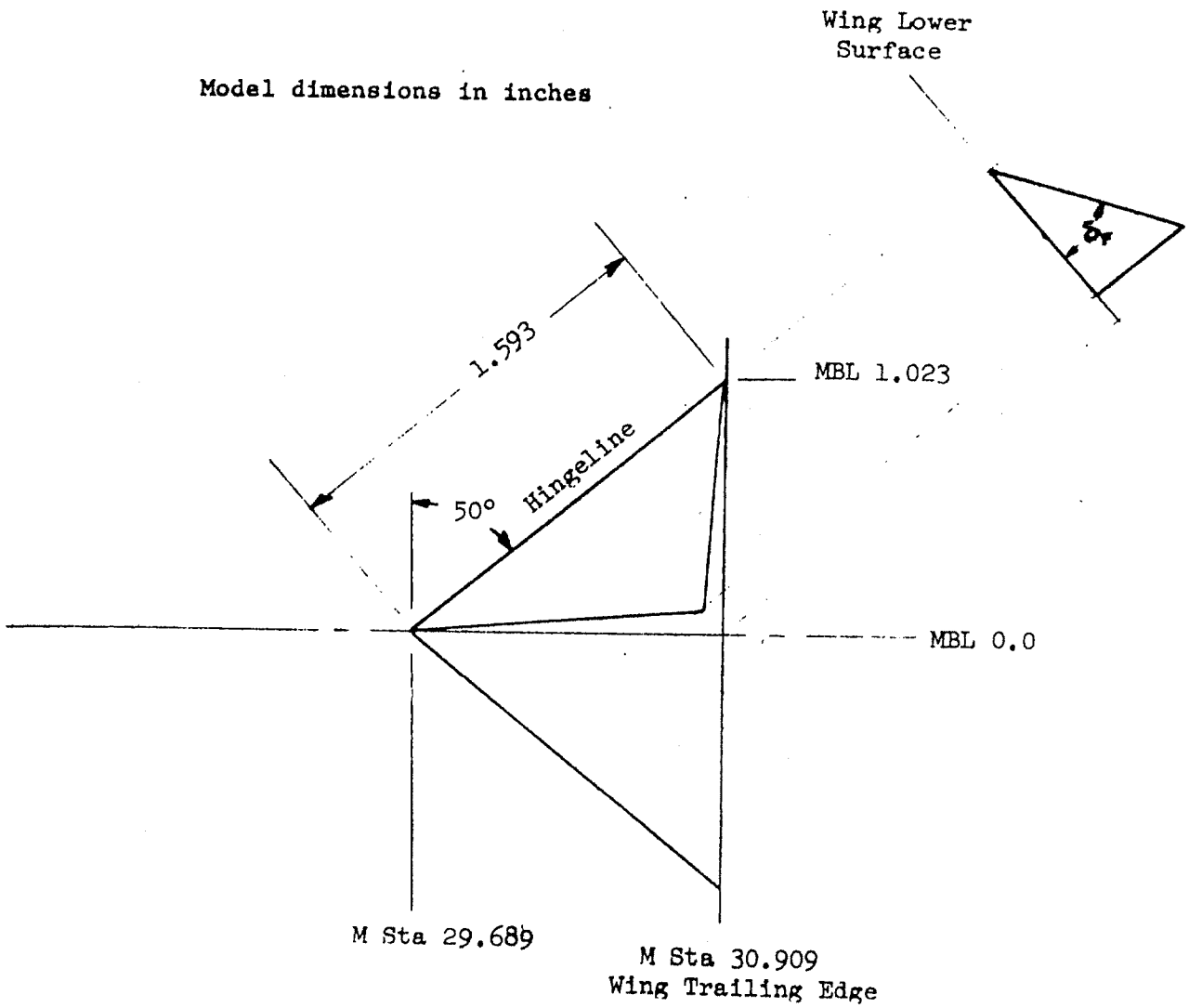


Figure D Body Flap, F_7

STR. STING TOT. BASE AREA = 8.853 IN²
BLADE TOTAL BASE AREA = 8.478 IN²

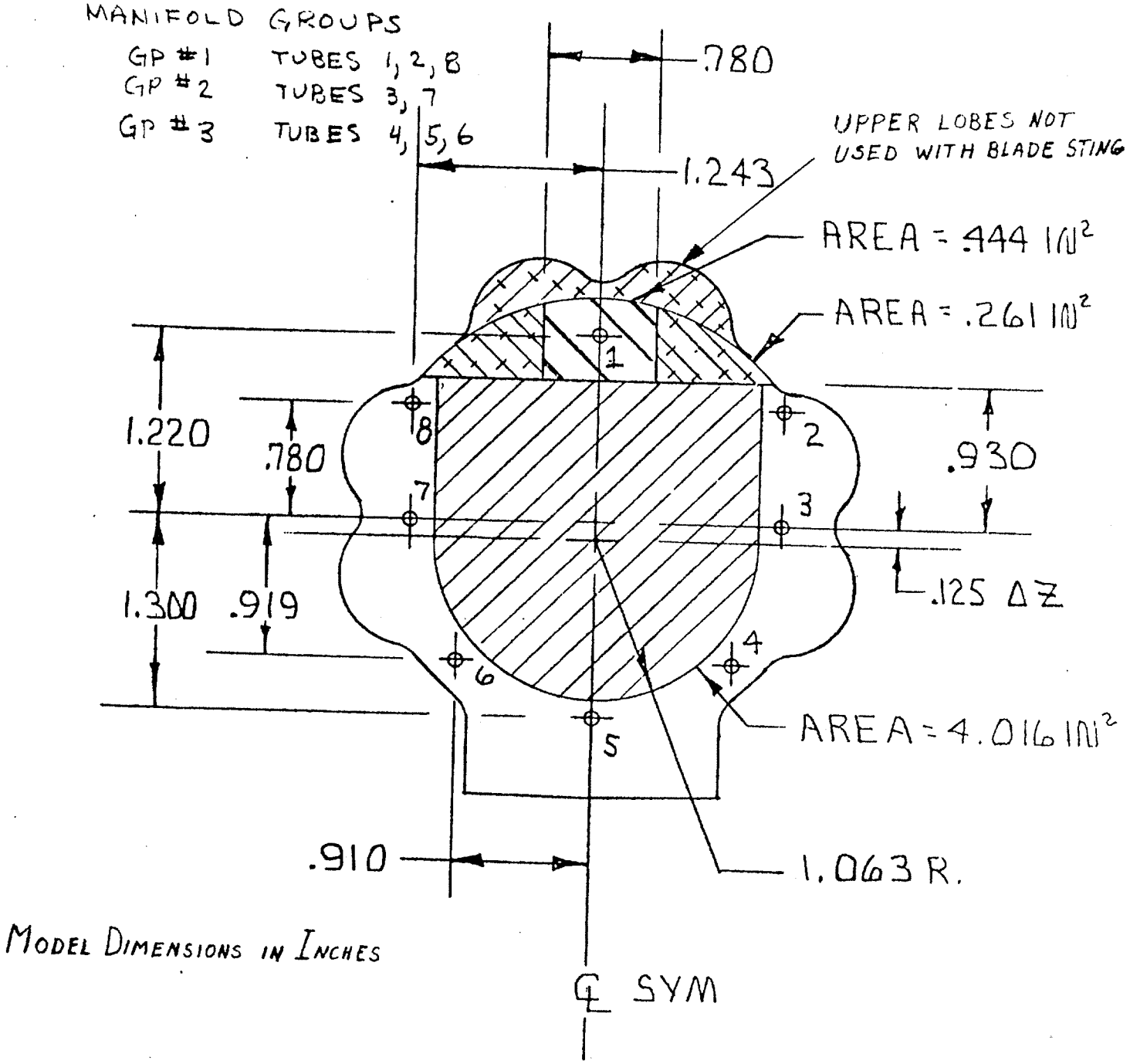
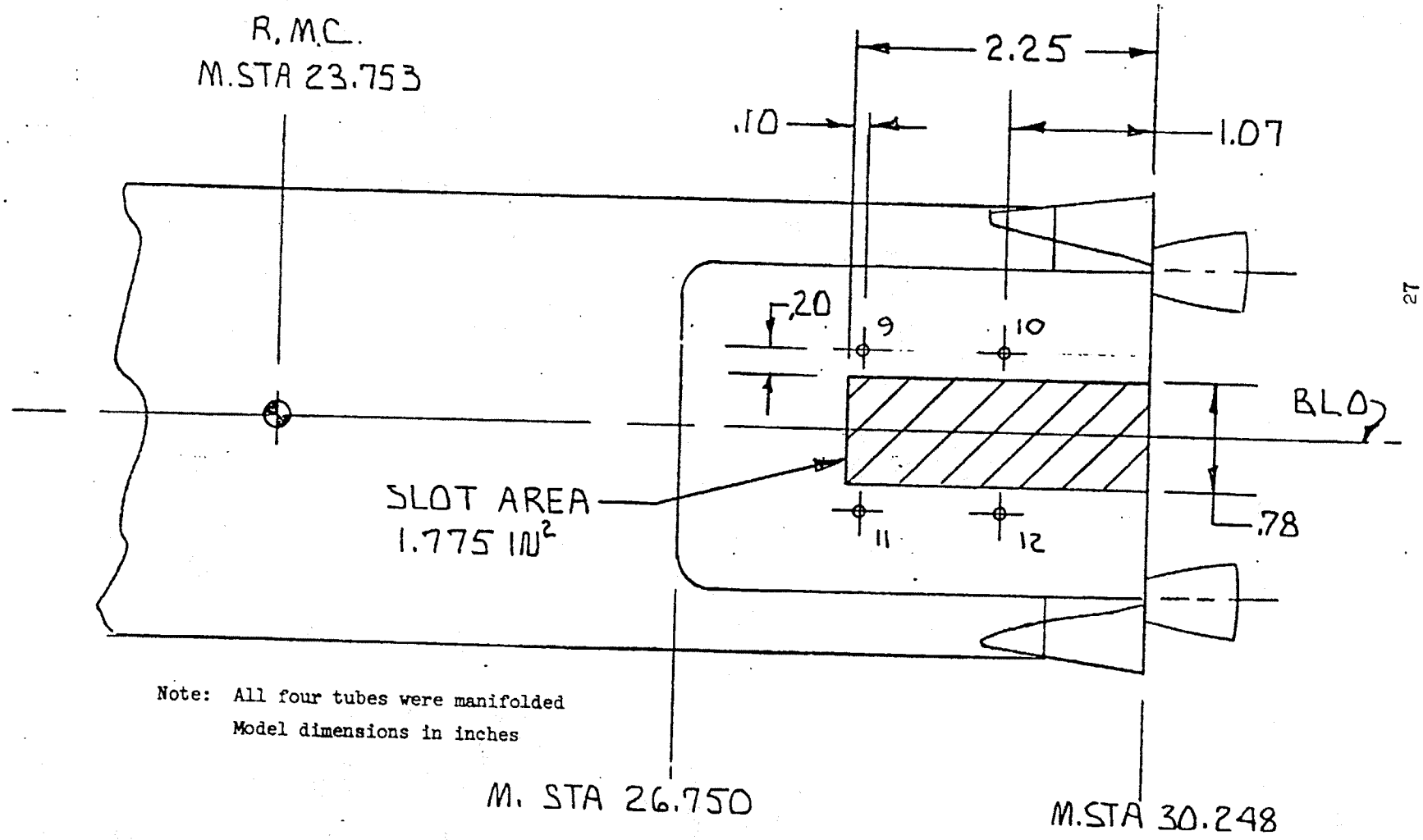
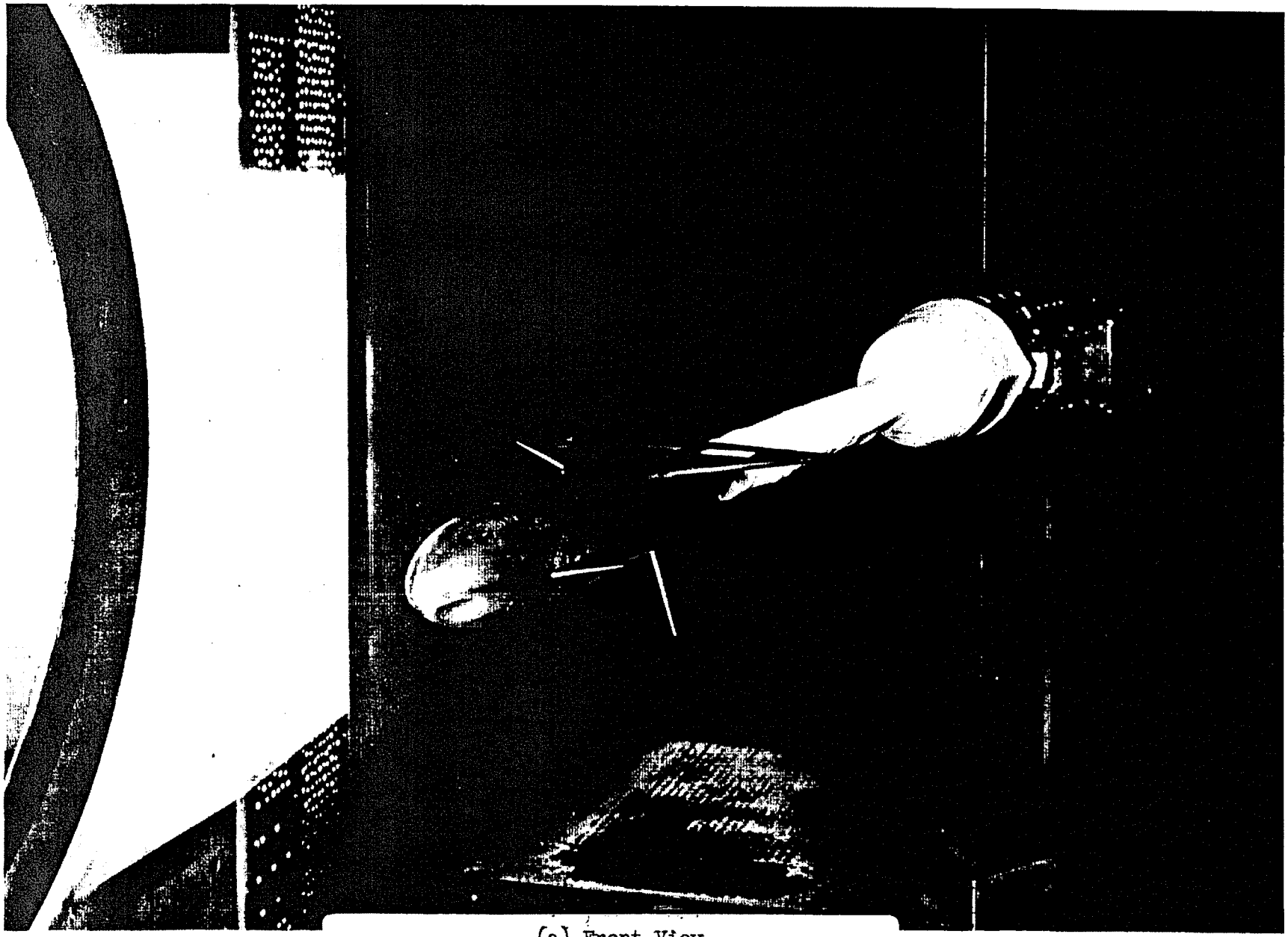


Figure E Base Geometry and Pressure Tap Locations



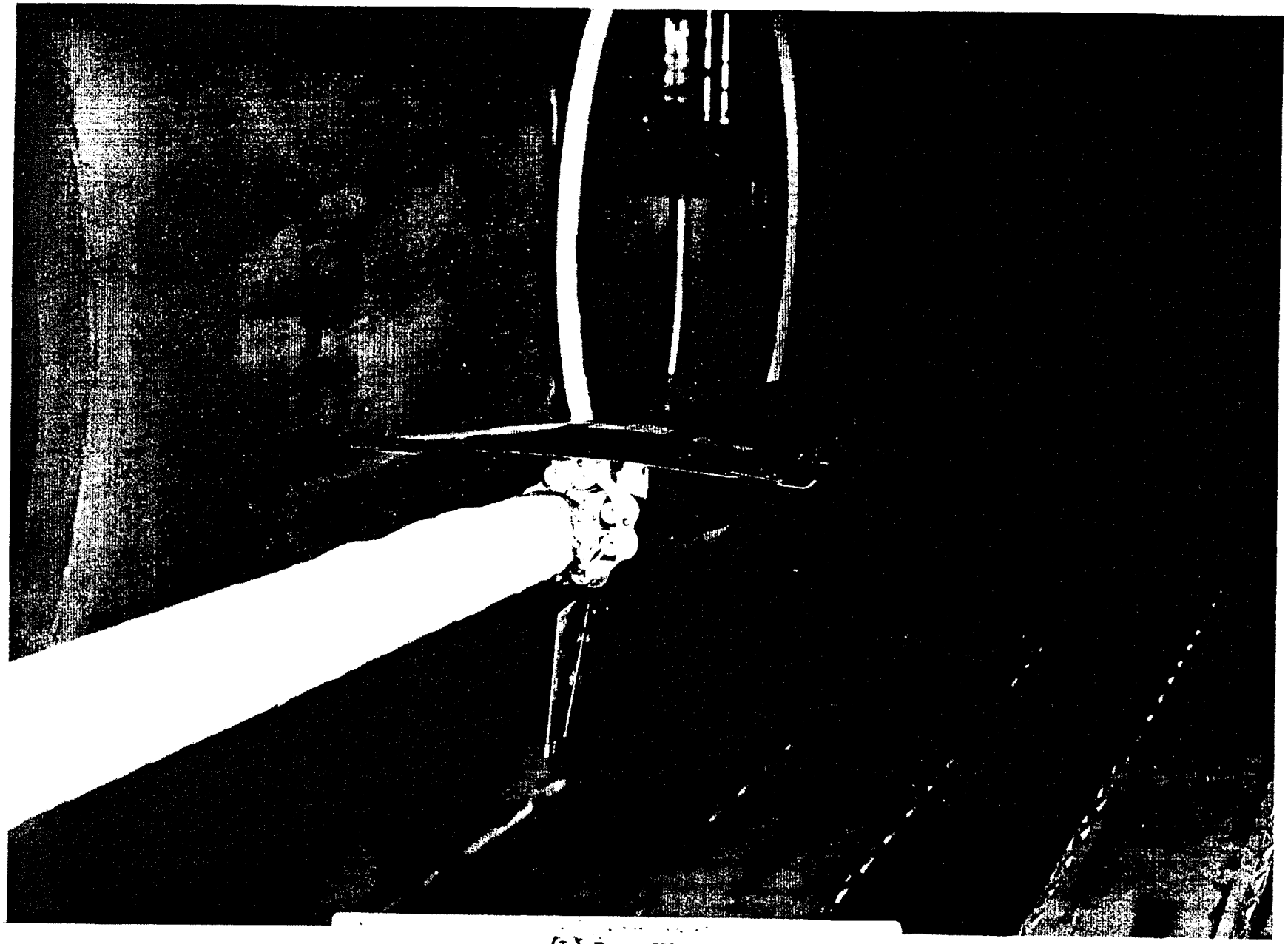
Note: All four tubes were manifolded
Model dimensions in inches

Figure F Plan View of Blade Cutout



(a) Front View

Figure G Photographs of Model Installation



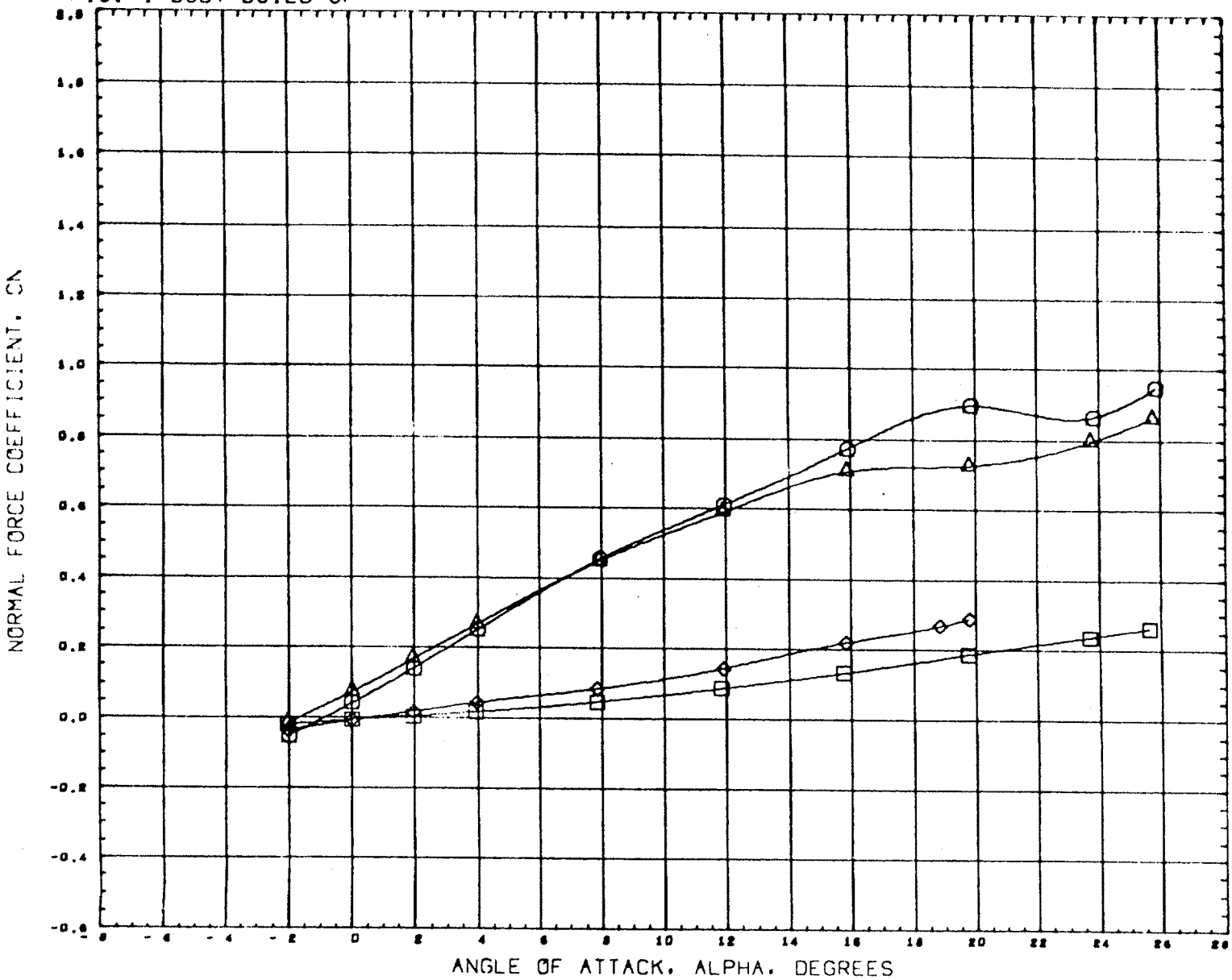
(b) Rear View

Figure G.- Concluded

DATA FIGURES

Tabulations of the plotted data and corresponding source data are available from SADSAC Operations.

FIG. 1 BODY BUILD-UP

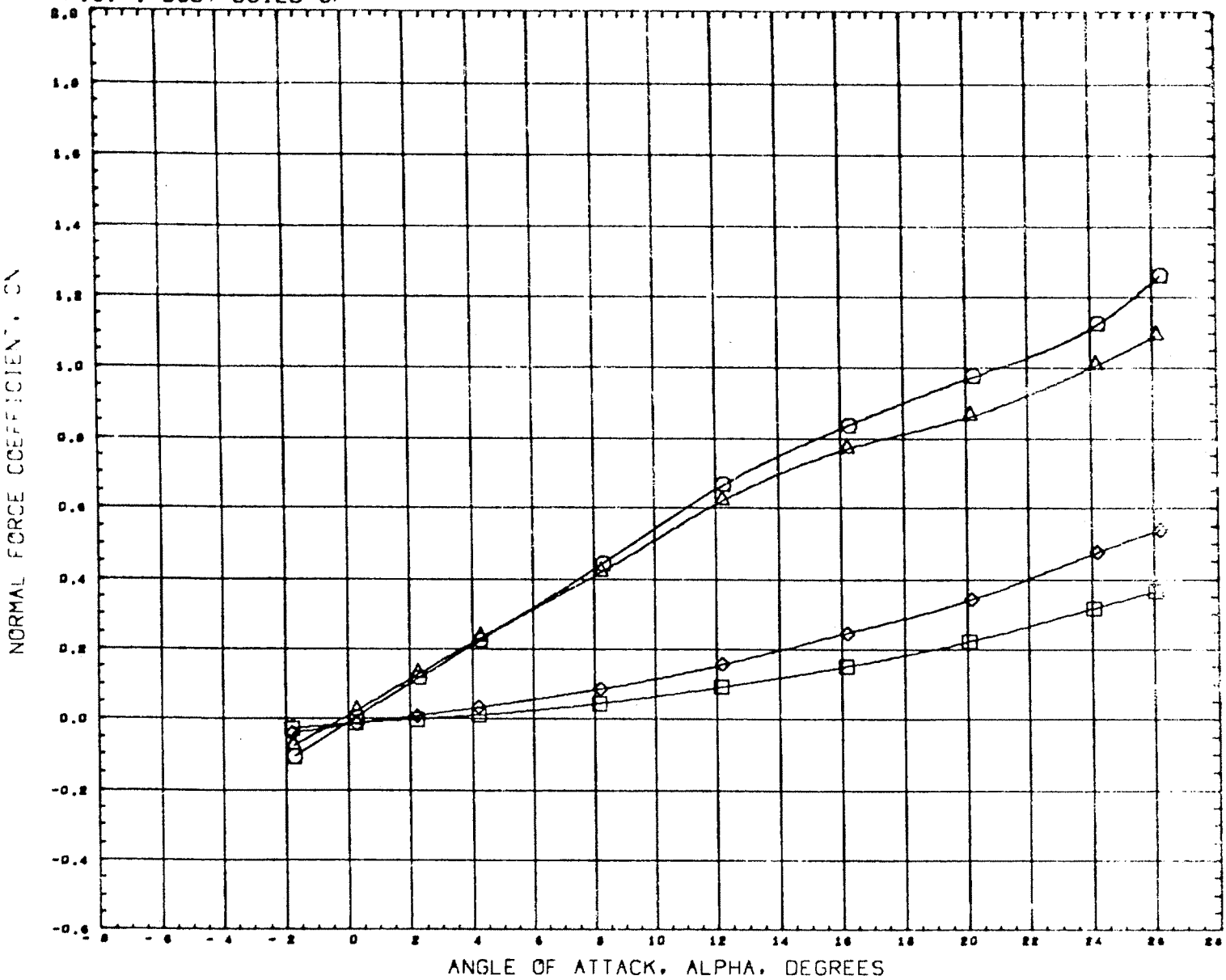


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA260)	△	AMES 66-563 B22W19R2V10	0.000
(CBA850)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1850	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



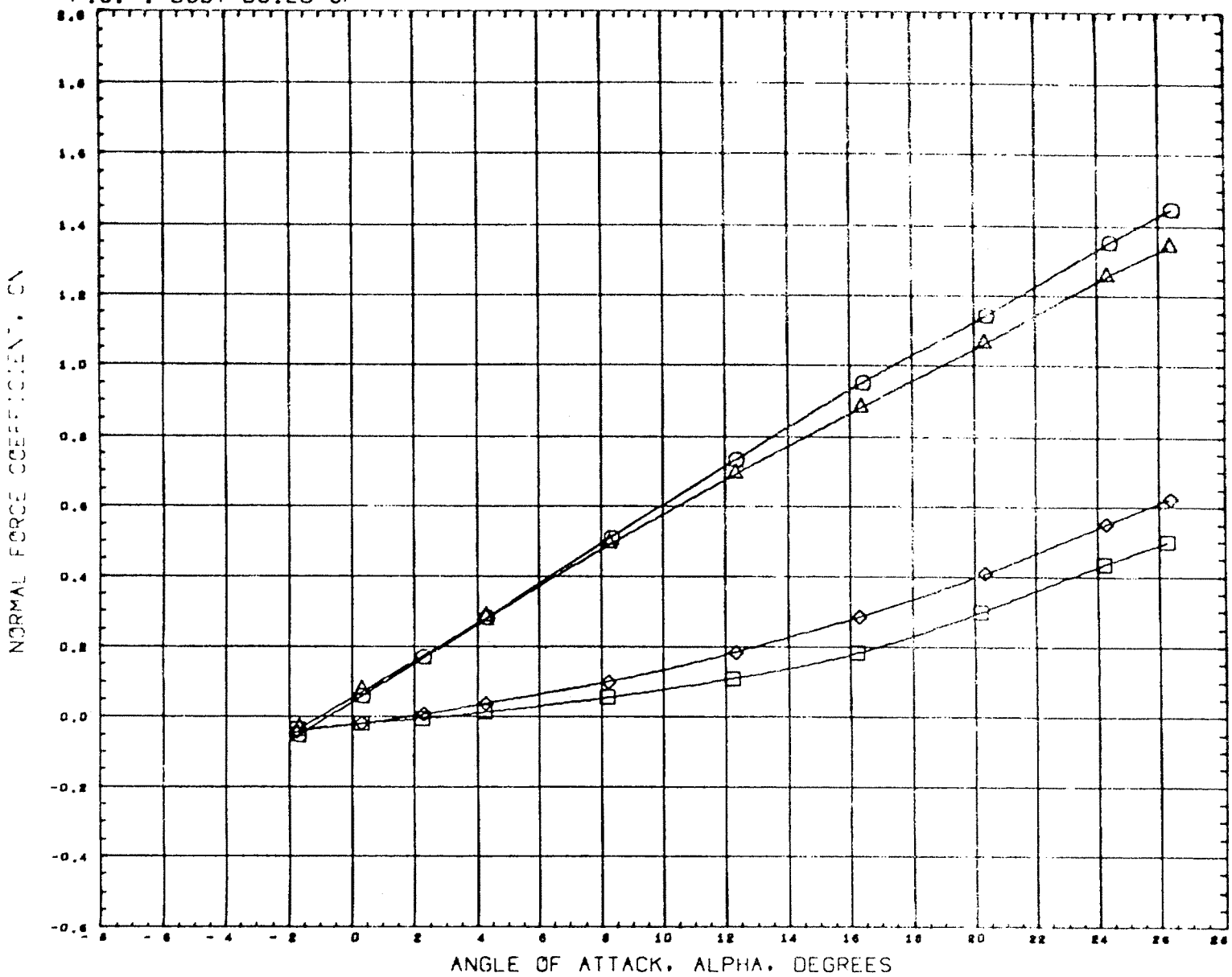
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	8.3410	IN
BREF	13.0860	IN
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	2.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



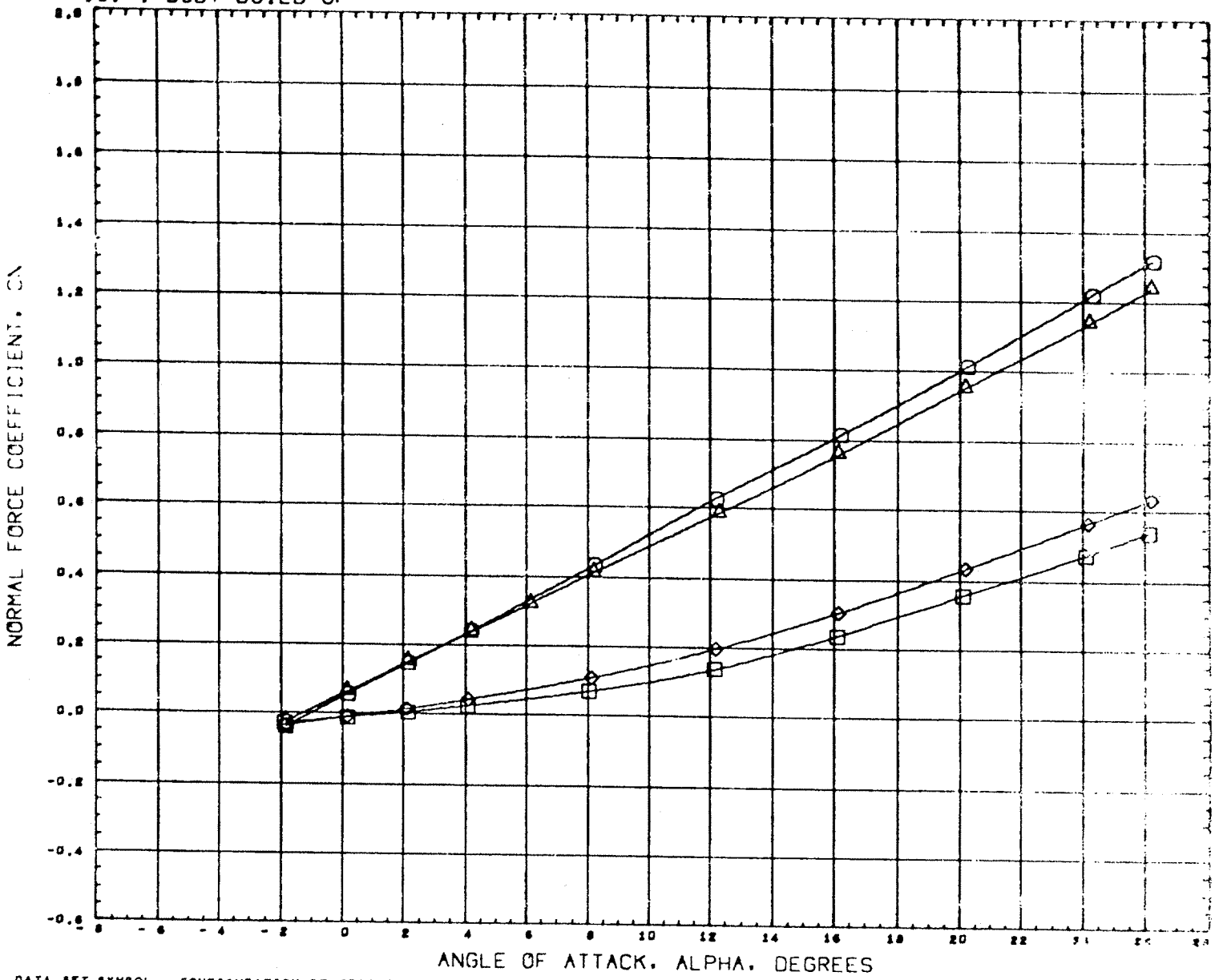
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XHRP	15.8500	IN.
YHRP	0.0000	IN.
ZHRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



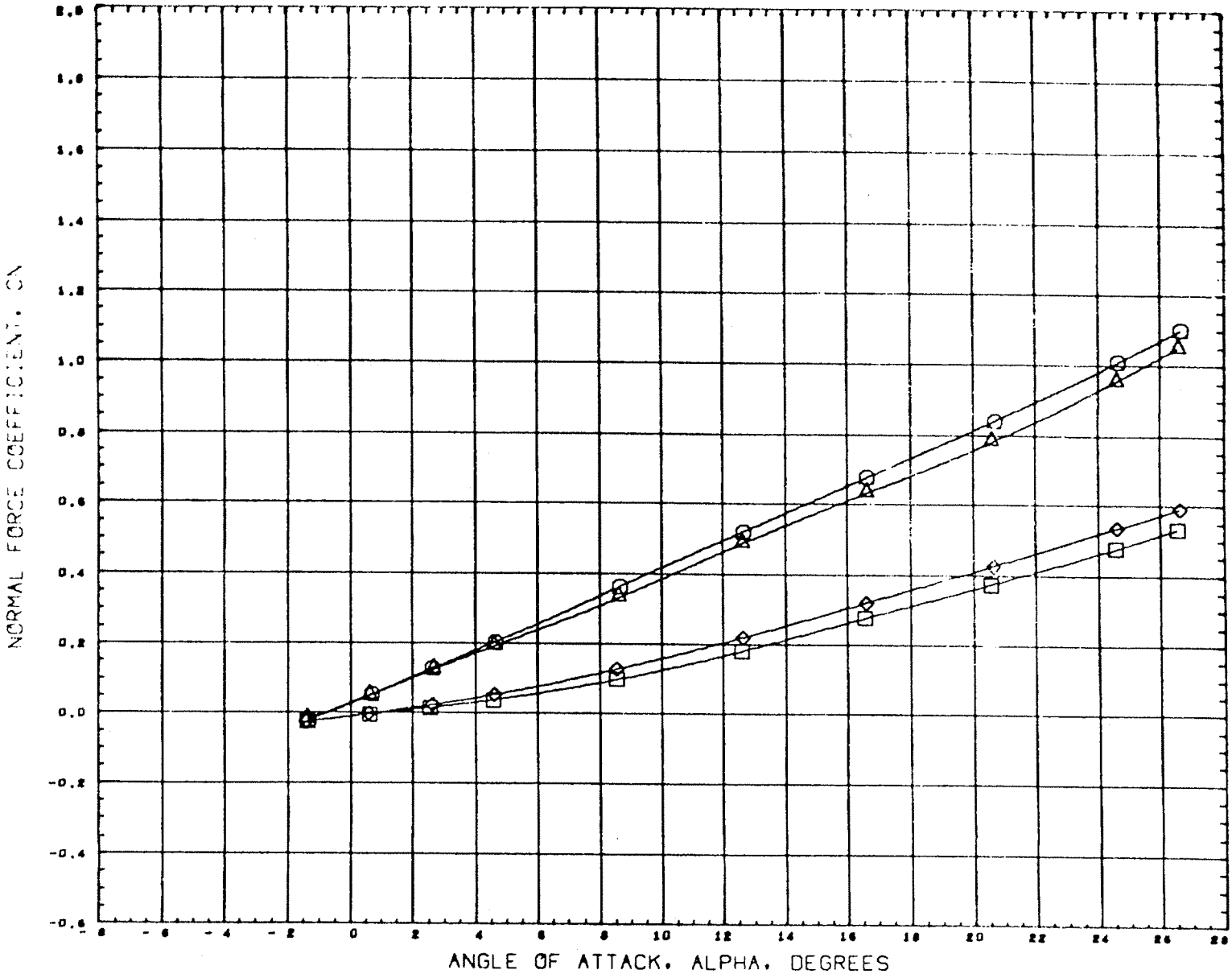
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ30)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19C2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.3410	IN.
BREF	15.0660	IN.
XMRP	15.0500	IN.
YMRP	0.0000	IN.
ZMRP	1.0175	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



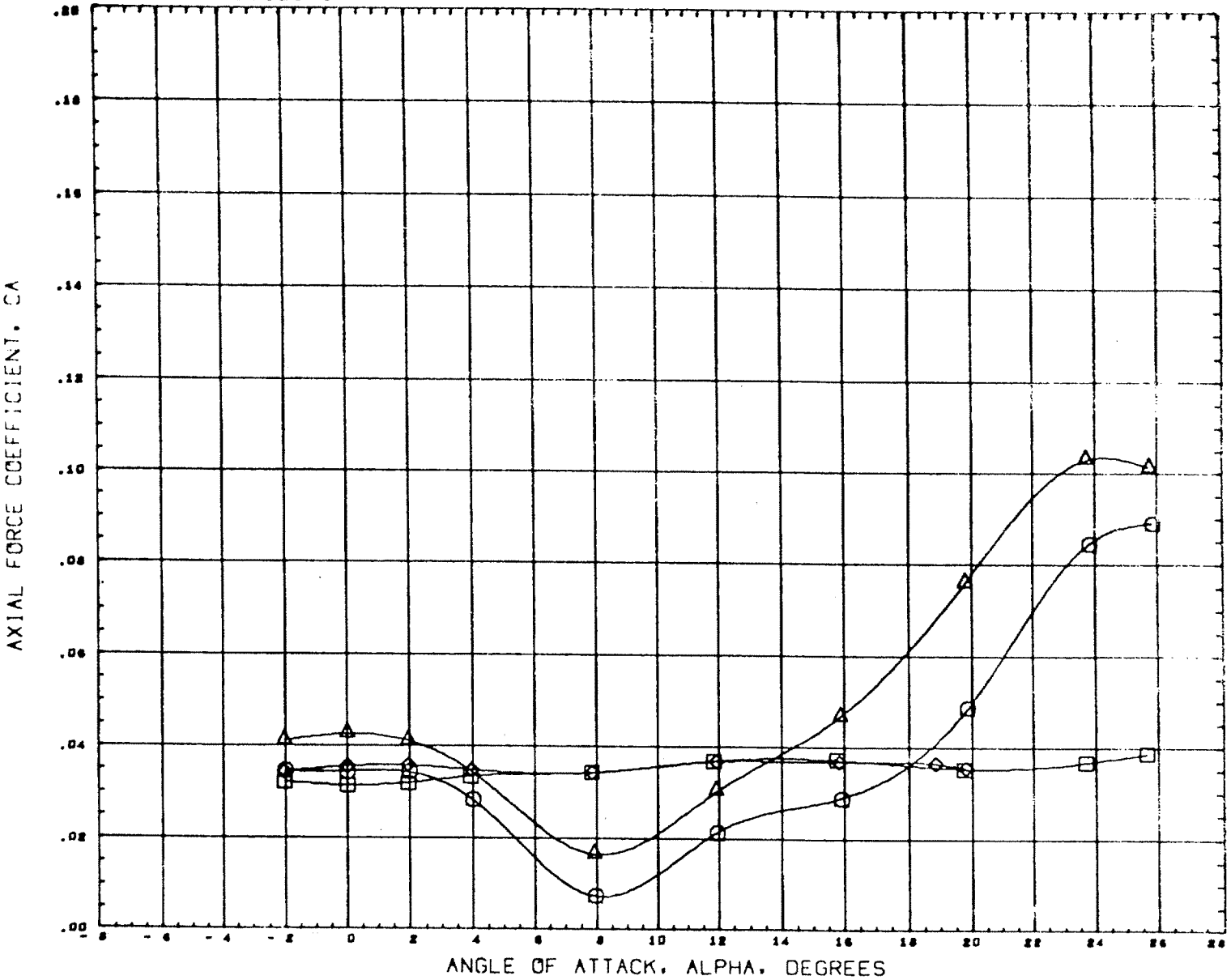
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



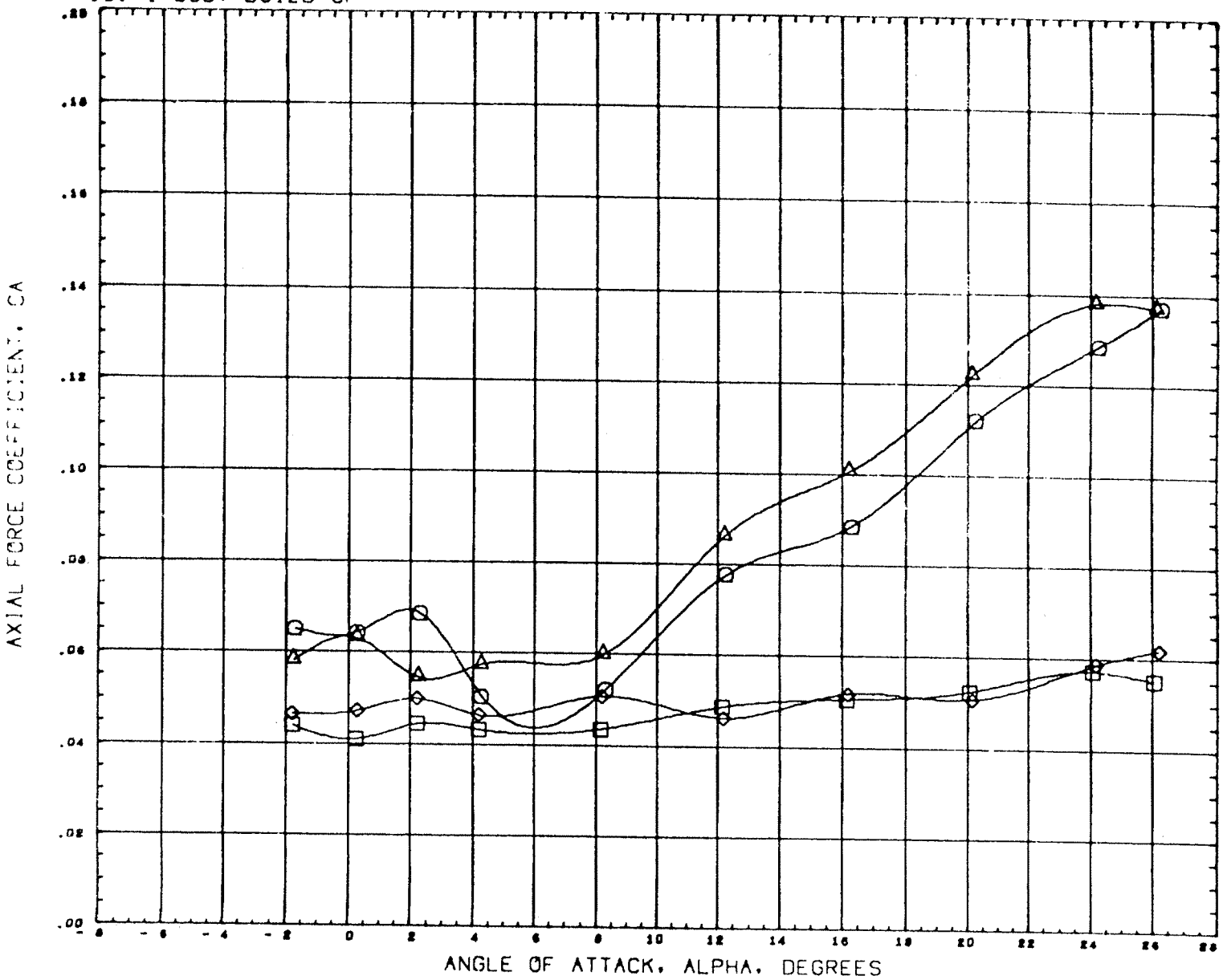
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



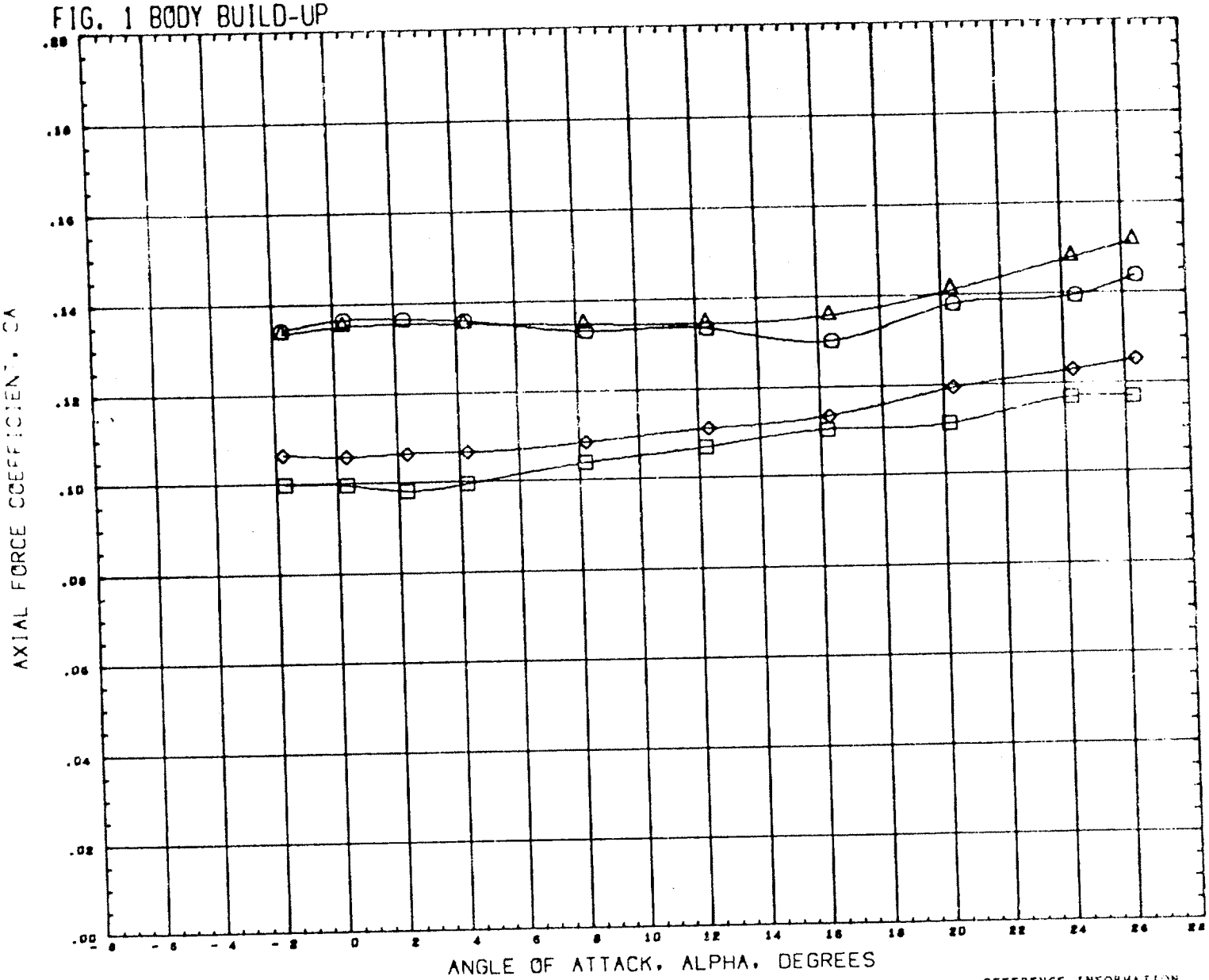
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA25D)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA22D)	△	AMES 66-563 B22W19R2V10	0.000
(CBA23D)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA21D)	□	AMES 66-563 B22V10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



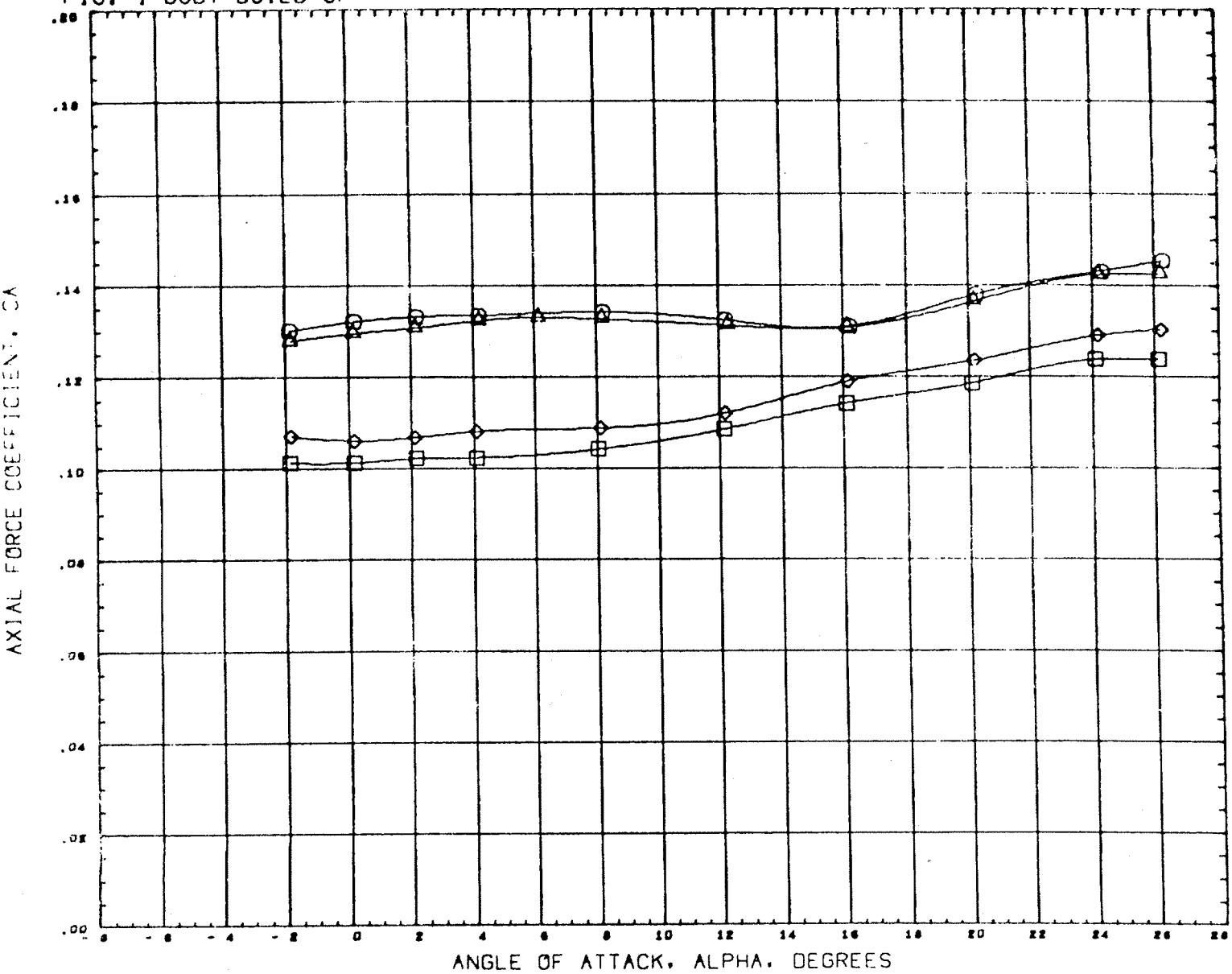
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG. 1 BODY BUILD-UP



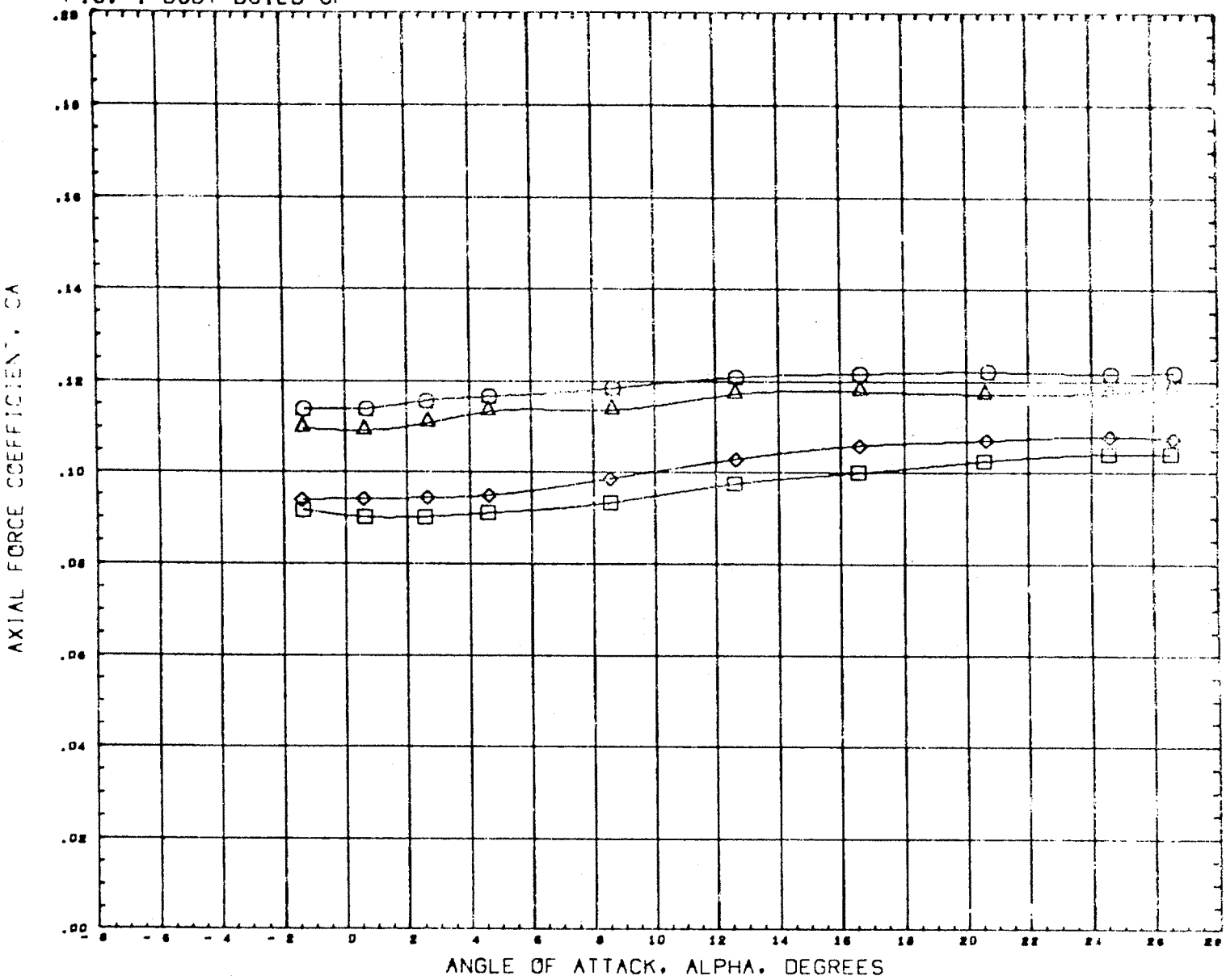
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ30)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ30)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8180	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



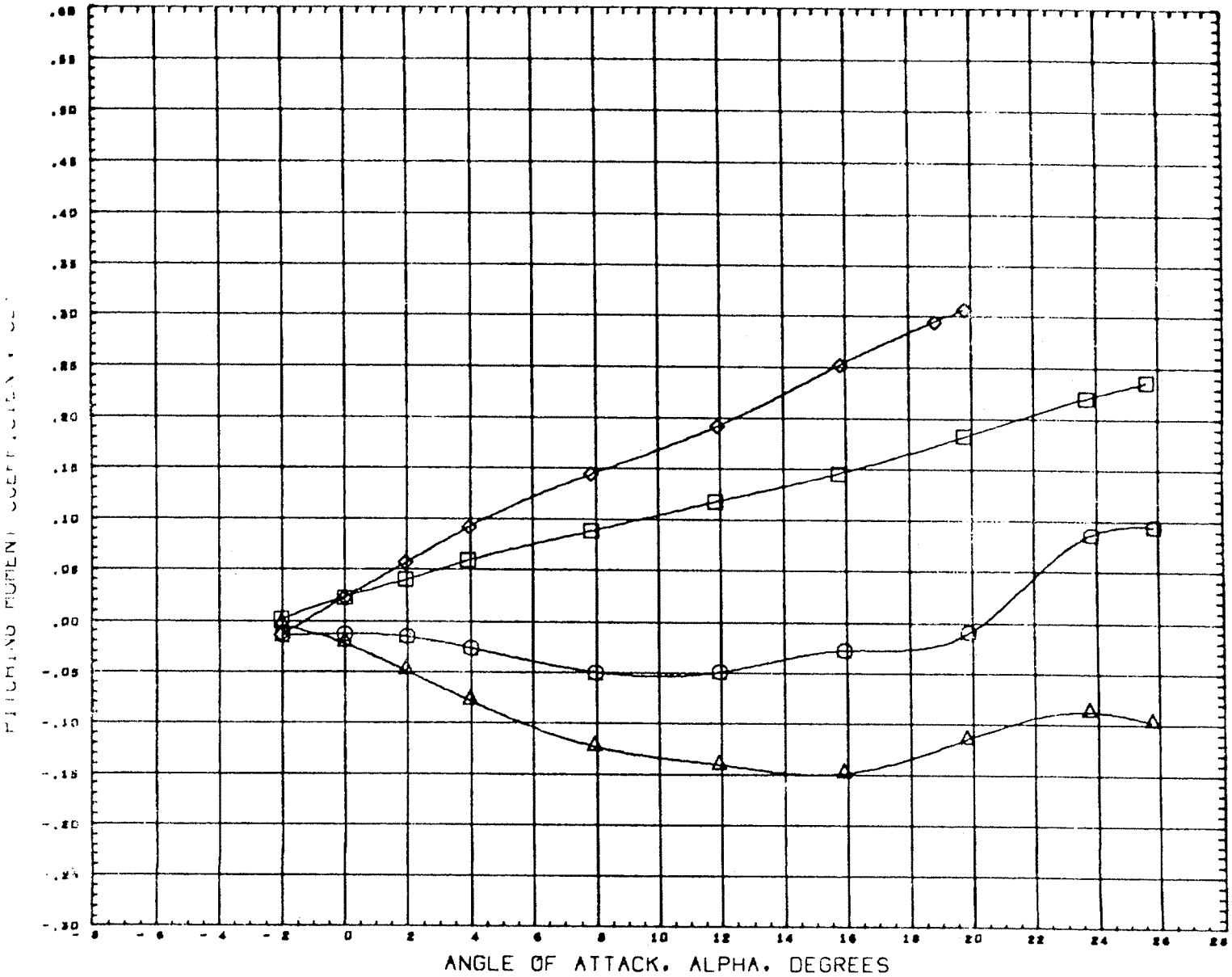
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1850	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN
YMRP	0.0000	IN.
ZMRP	1.6140	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



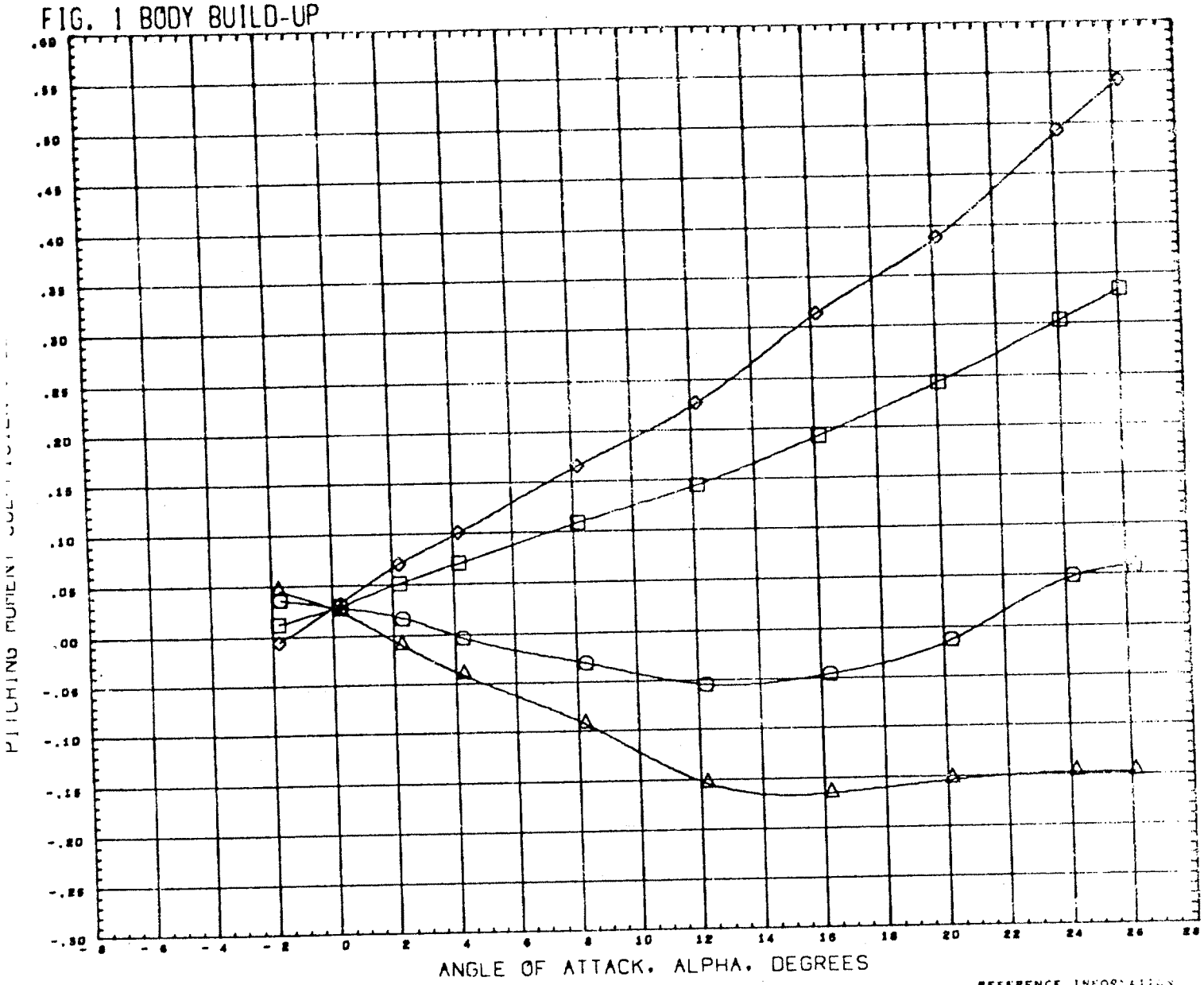
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	8.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



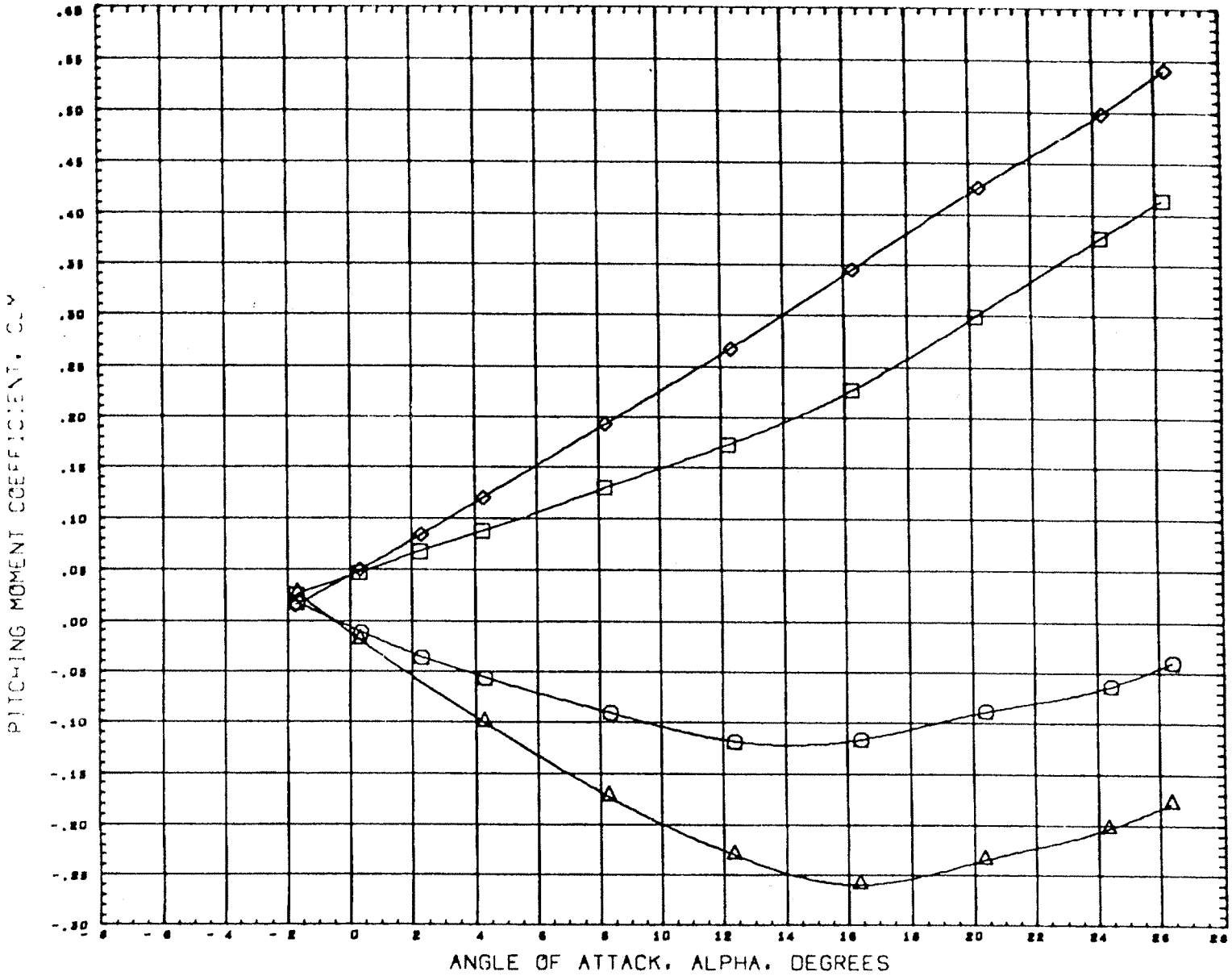
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



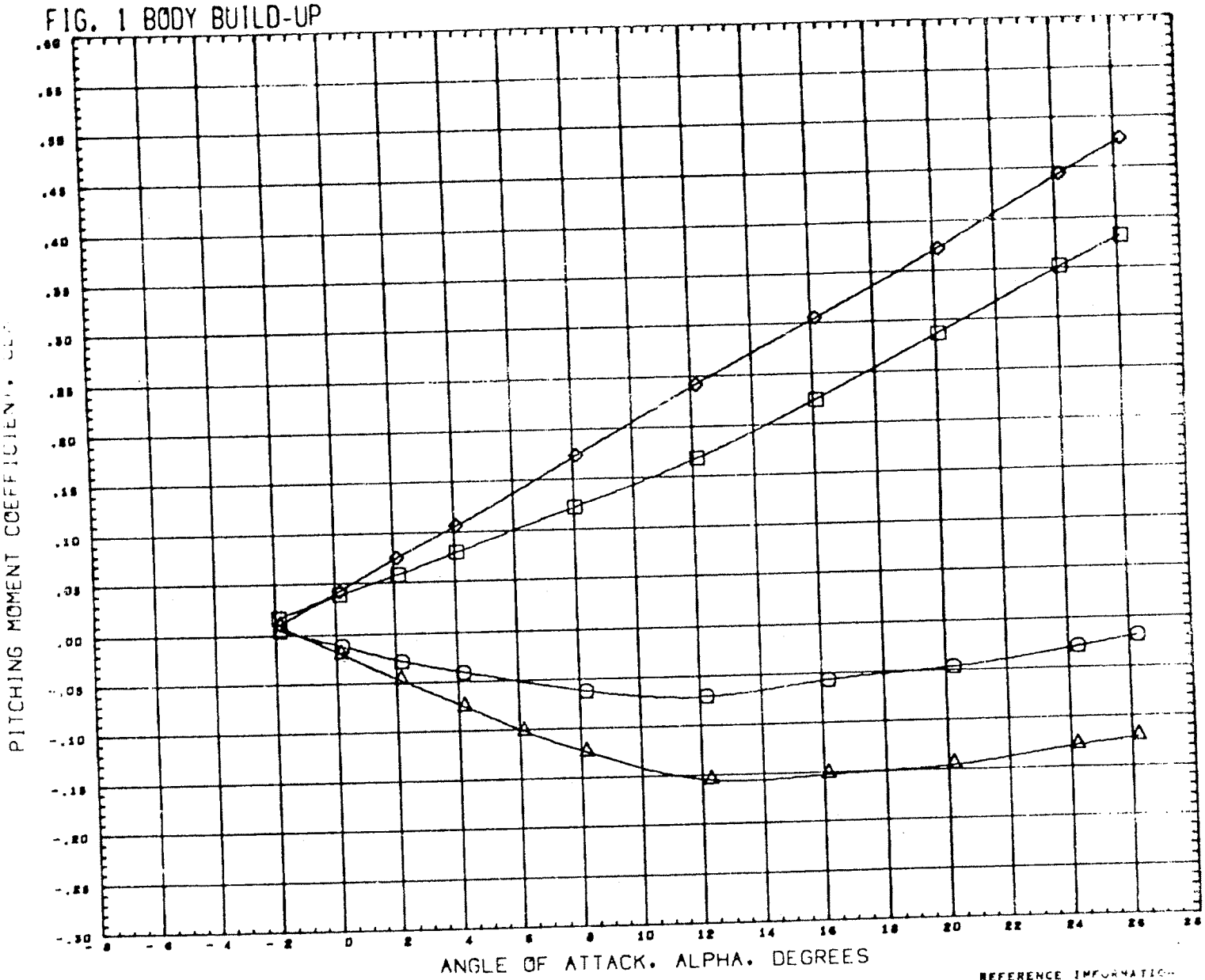
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



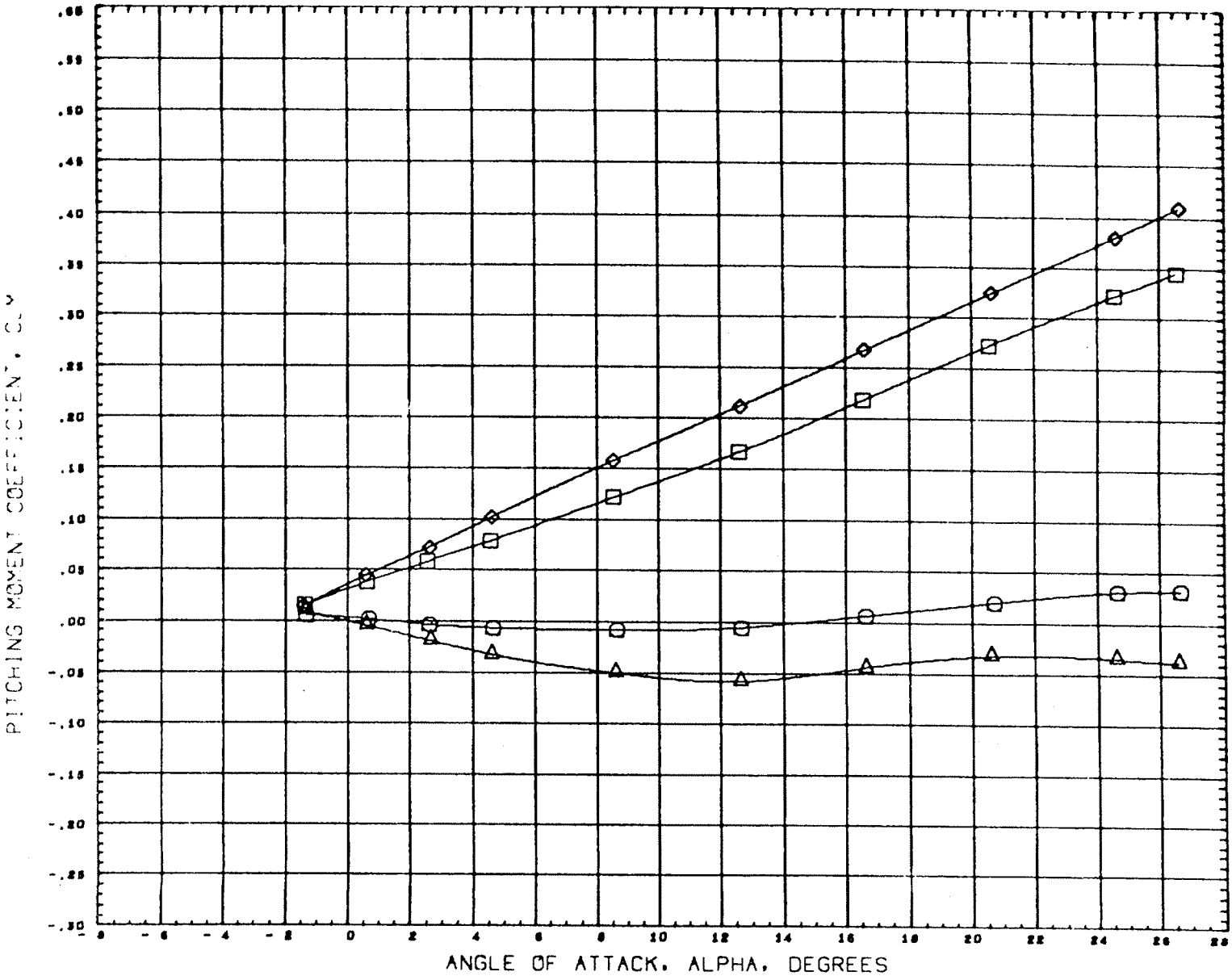
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0074	

MACH 1.497

FIG. 1 BODY BUILD-UP



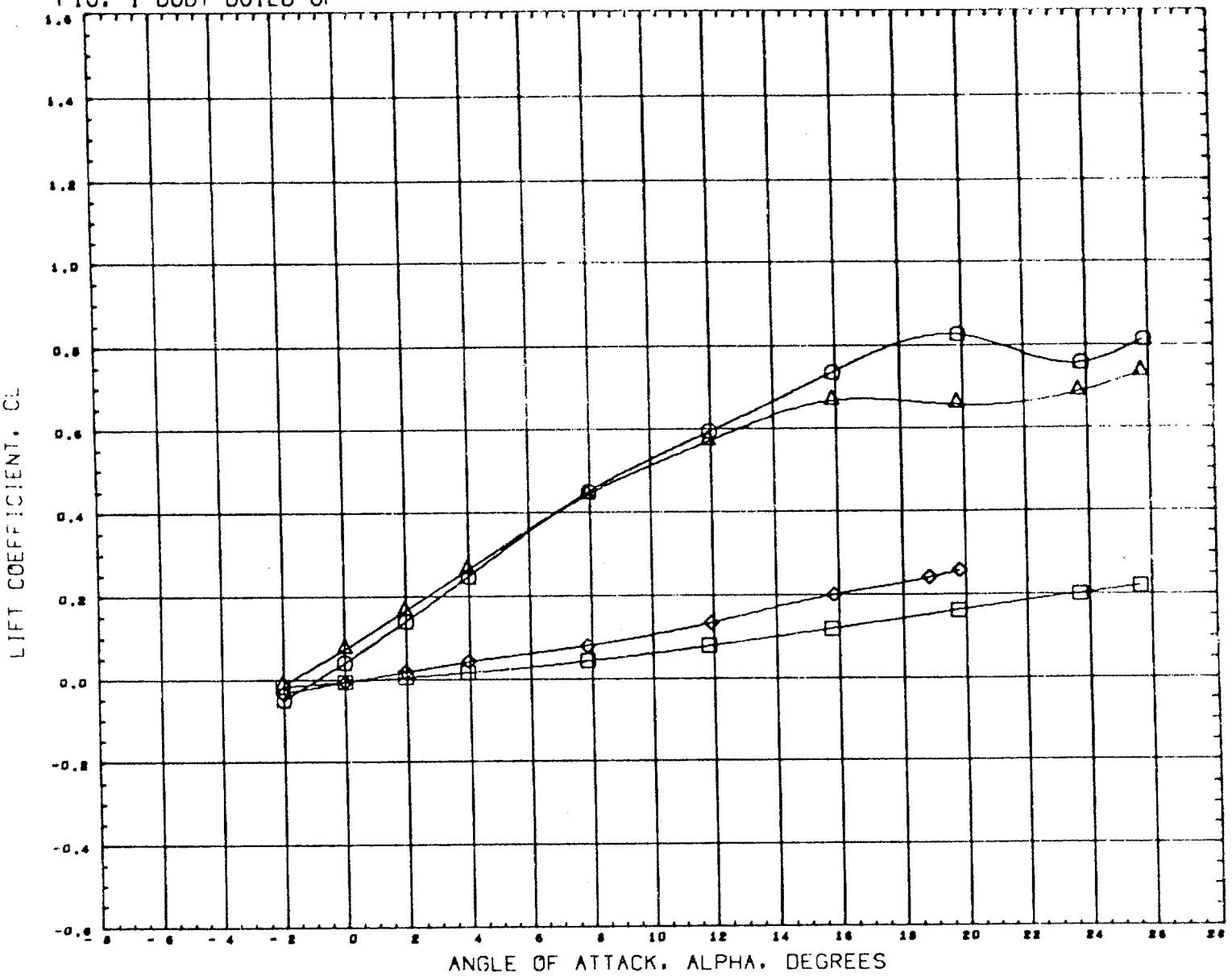
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



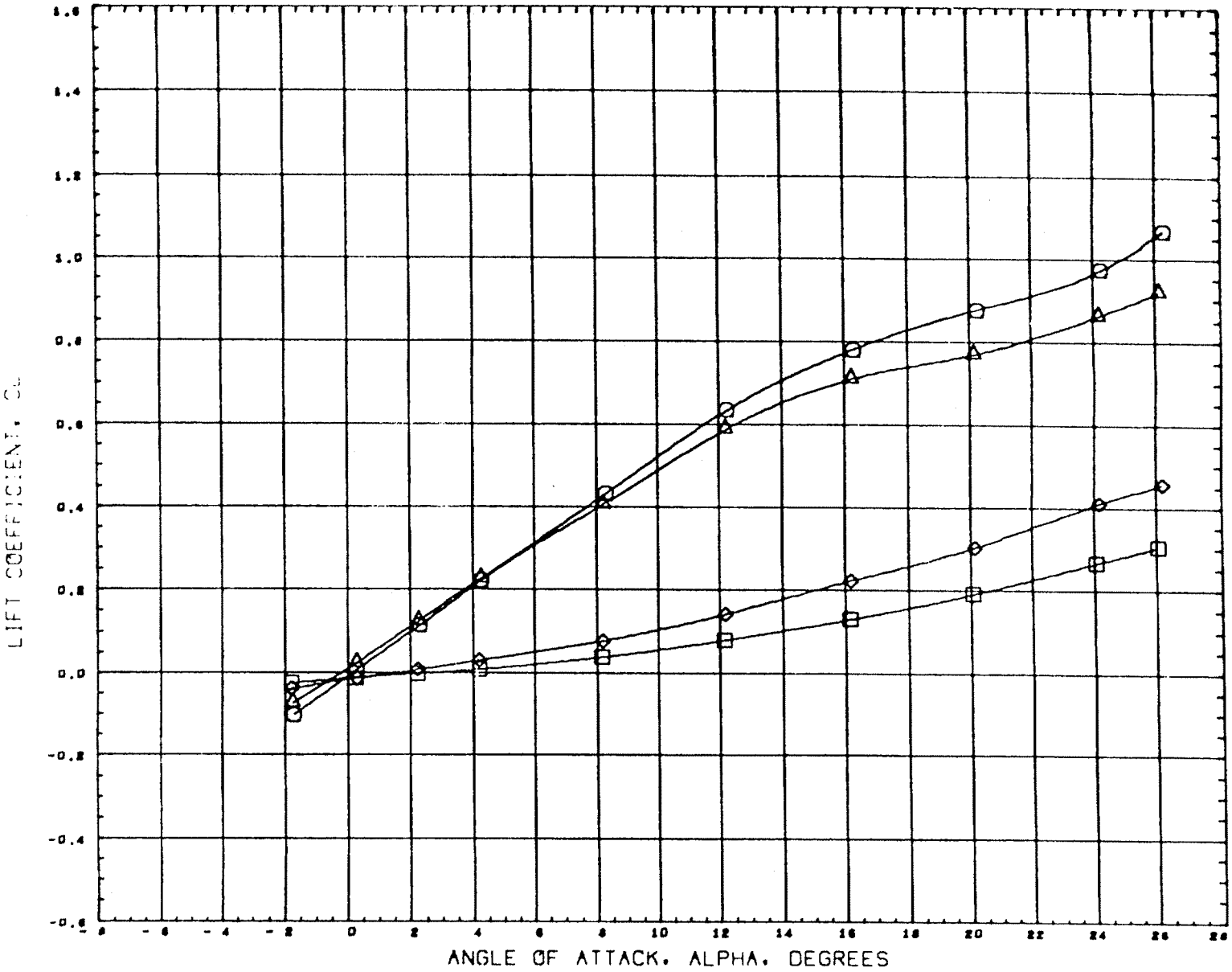
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 0.511

REFERENCE INFORMATION

SREF	70.1950	SQ.IN
LREF	8.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



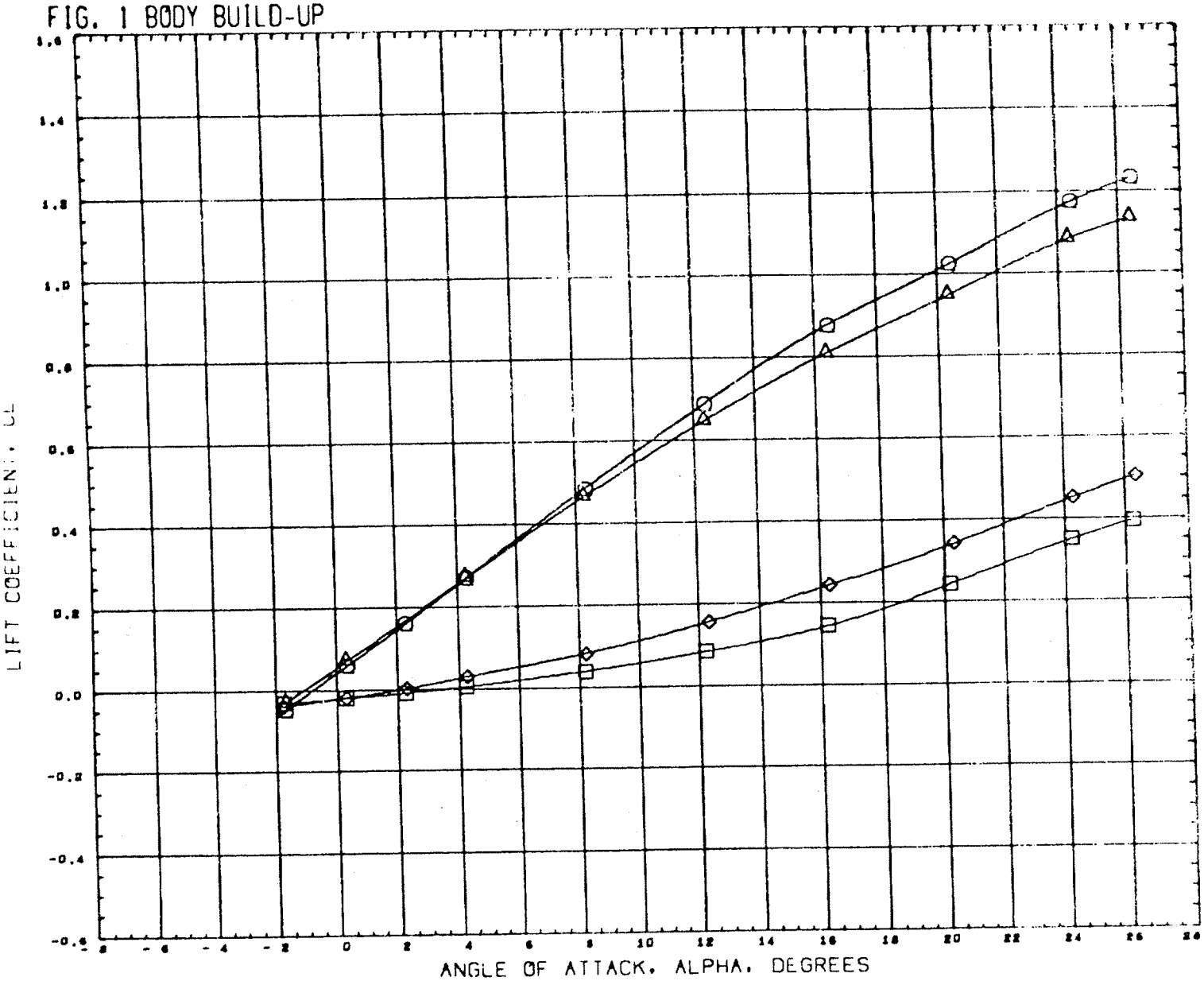
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.812

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

FIG. 1 BODY BUILD-UP



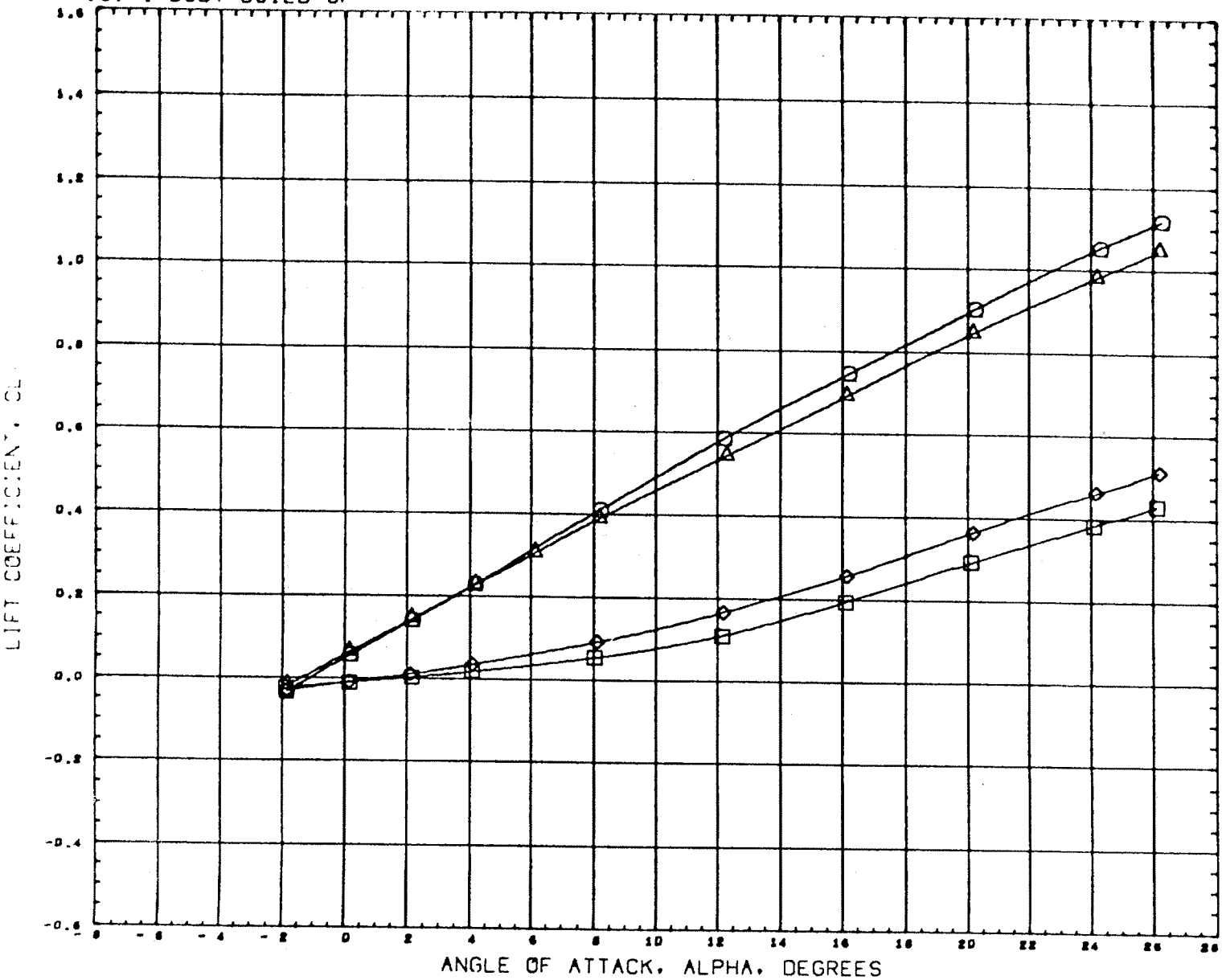
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG. 1 BODY BUILD-UP



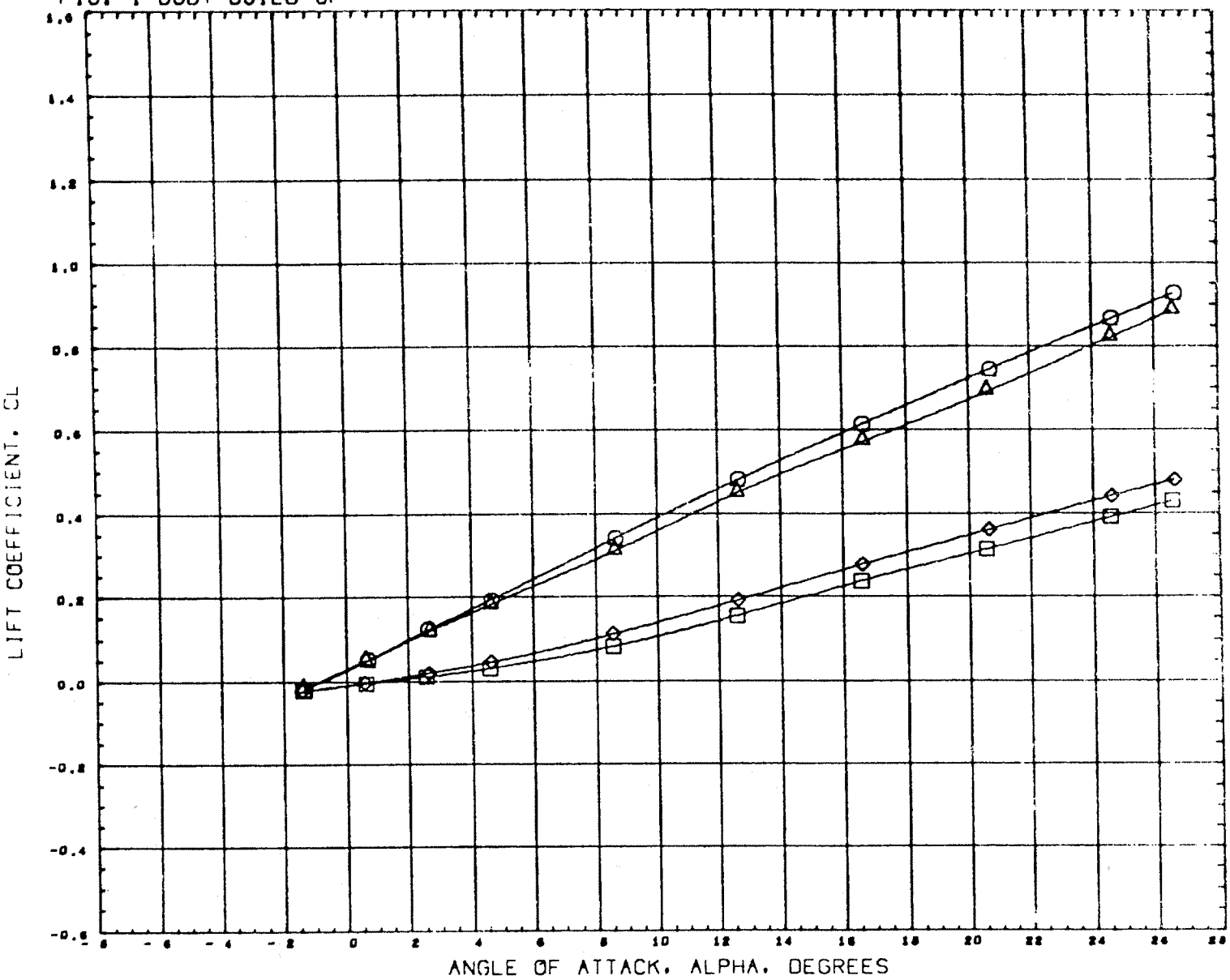
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBA220)	△	AMES 66-563 BZZW19R2V10	0.000
(CBA230)	◇	AMES 66-563 BZZC8V10R2	0.000
(CBA210)	□	AMES 66-563 BZZV10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF 13.0860 IN.
XMRP 15.8500 IN.
YMRP 0.0000 IN.
ZMRP 1.8180 IN.
SCALE 0.0076

FIG. 1 BODY BUILD-UP



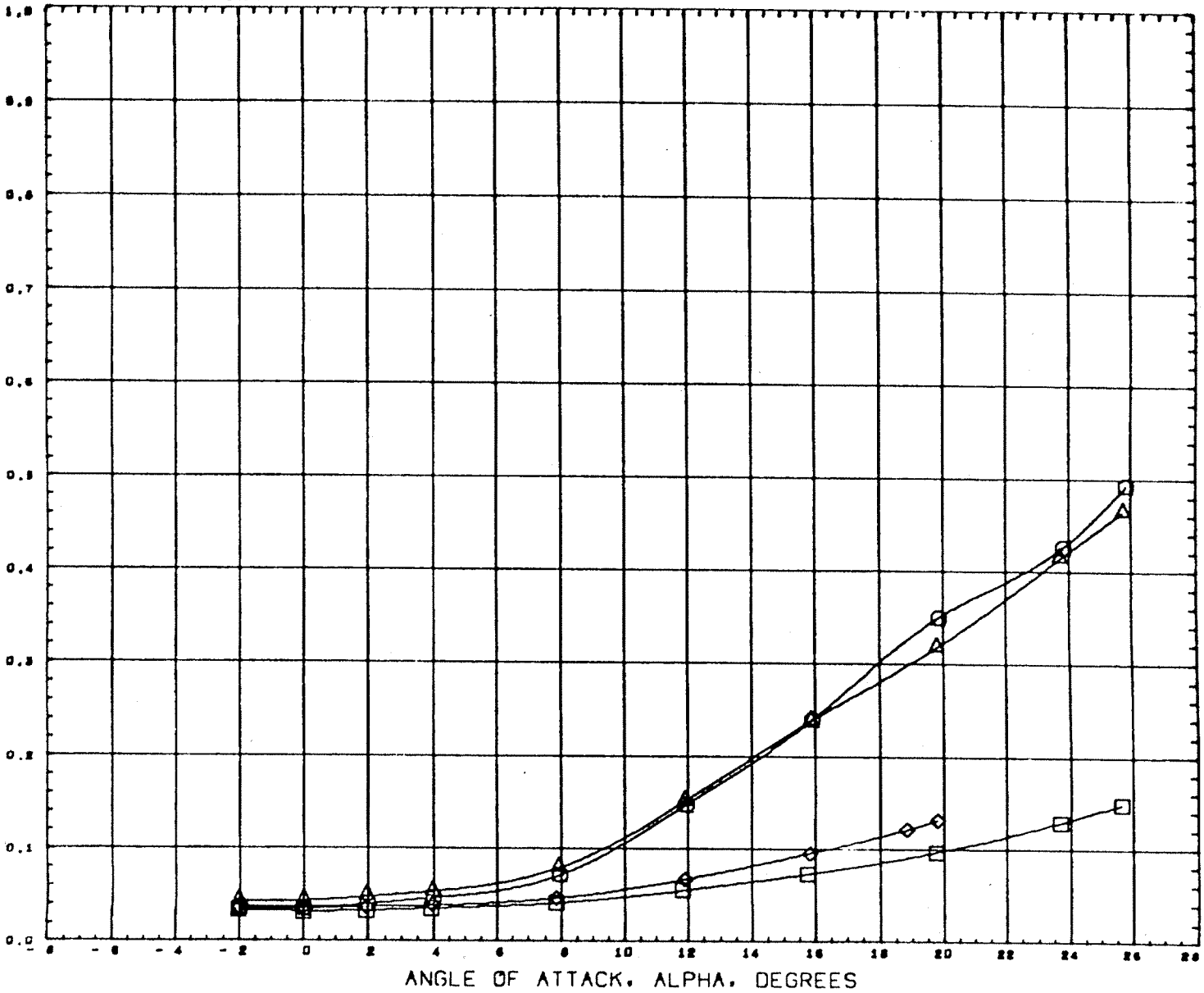
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C0W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C0V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

XACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



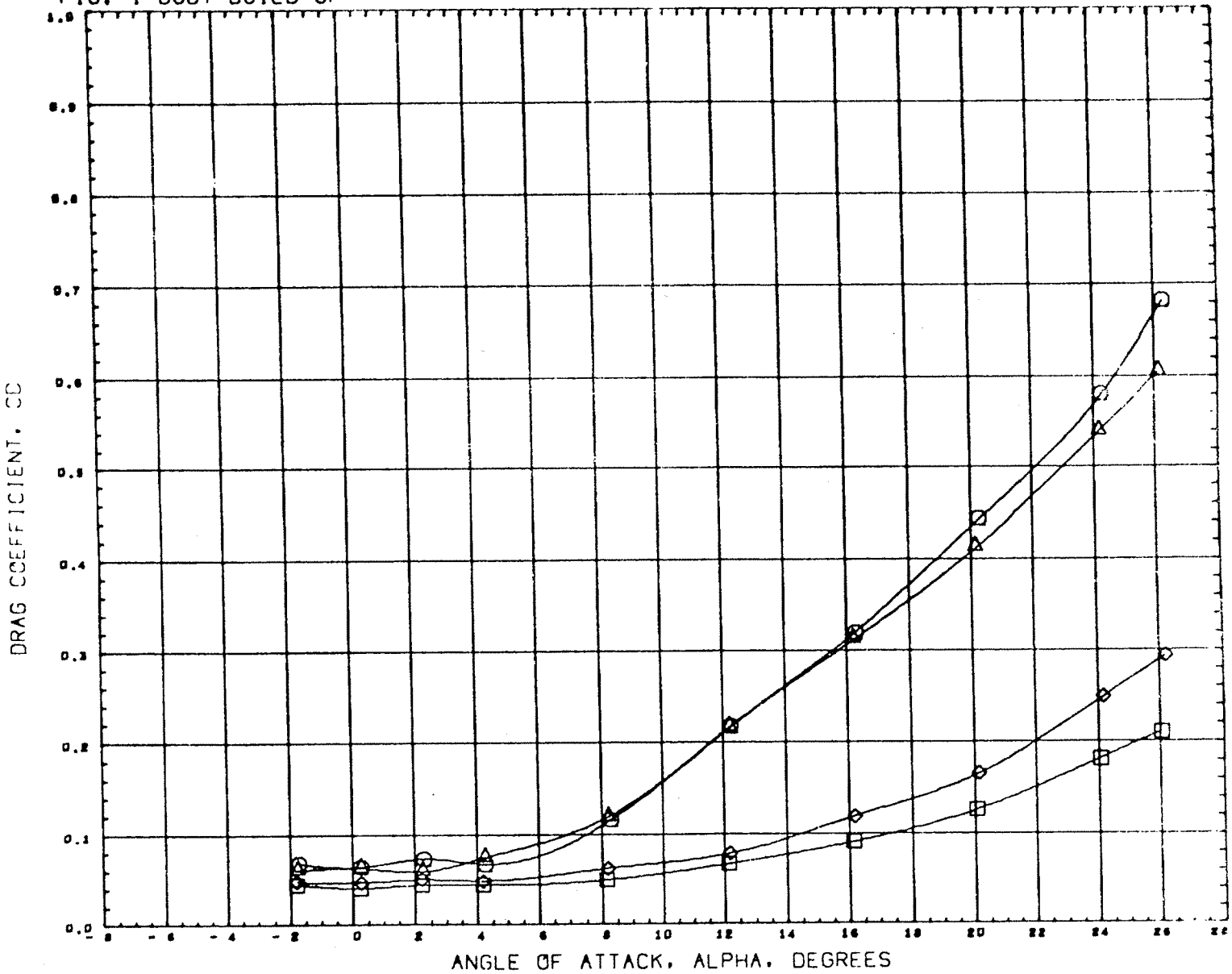
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZC8V10RZ	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



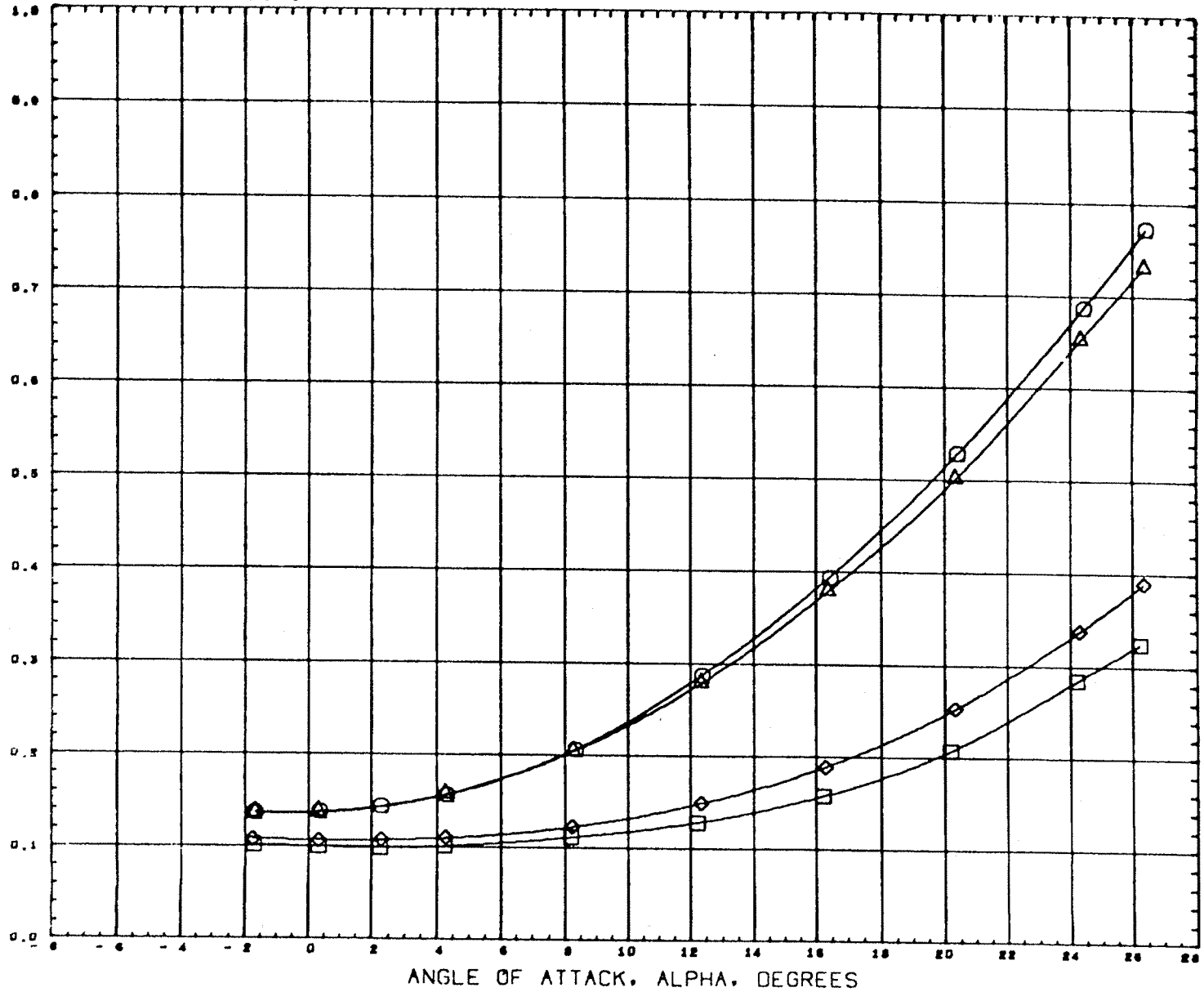
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZ2C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 BZ2W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZ2C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 BZ2V10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1050	SQ. IN
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



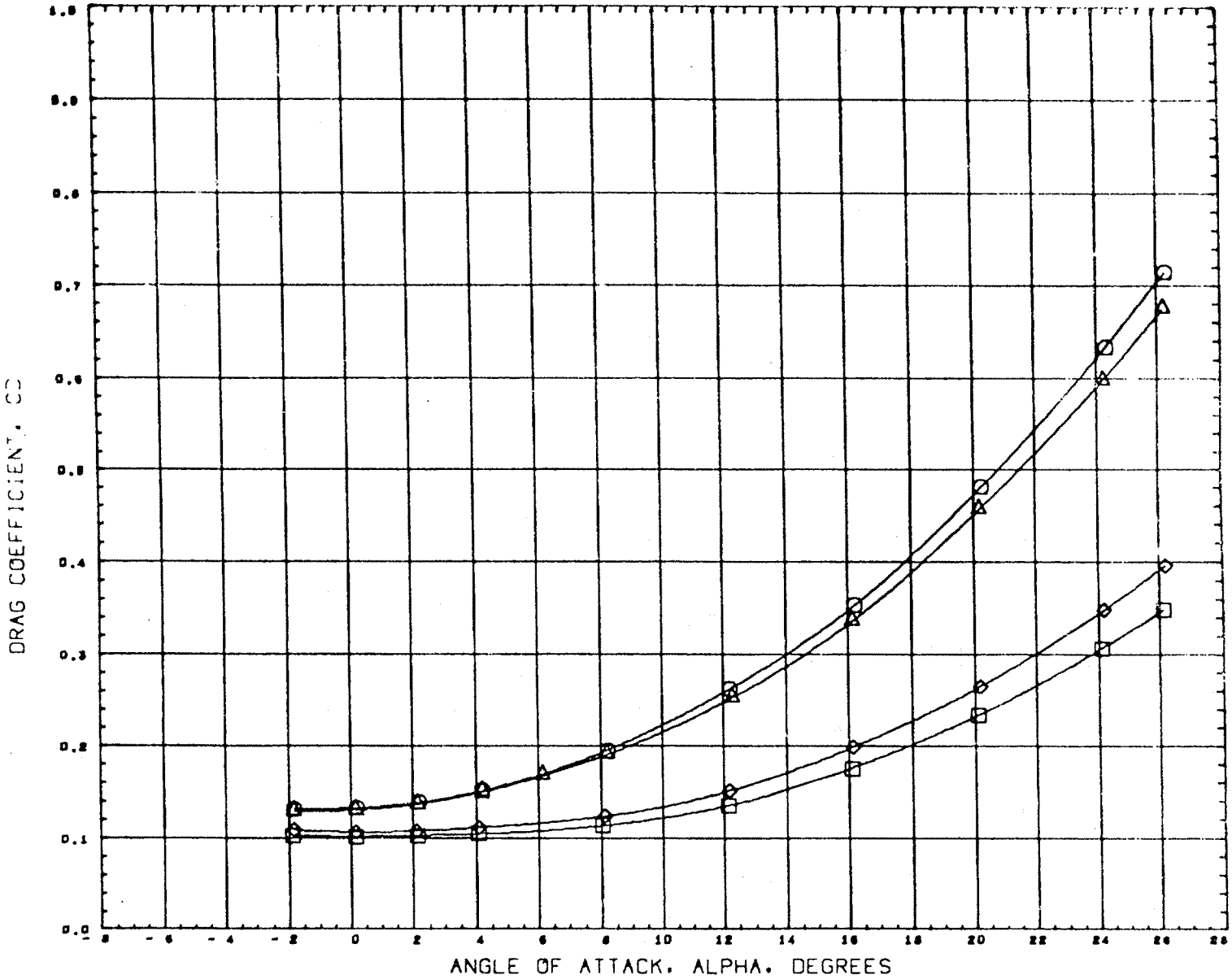
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(BA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(BA220)	△	AMES 66-563 B22W19R2V10	0.000
(BA230)	◇	AMES 66-563 B22C8V10R2	0.000
(BA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



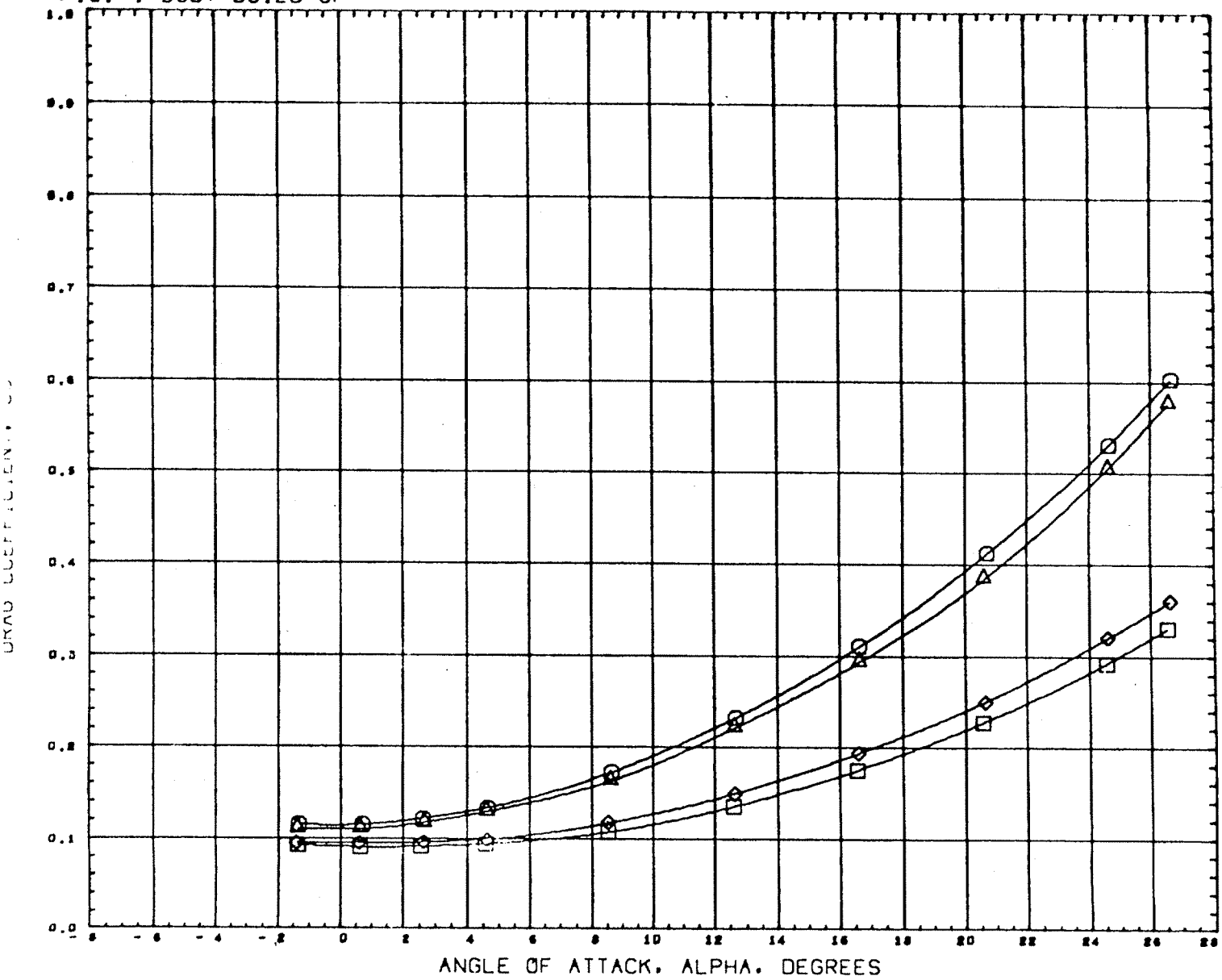
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



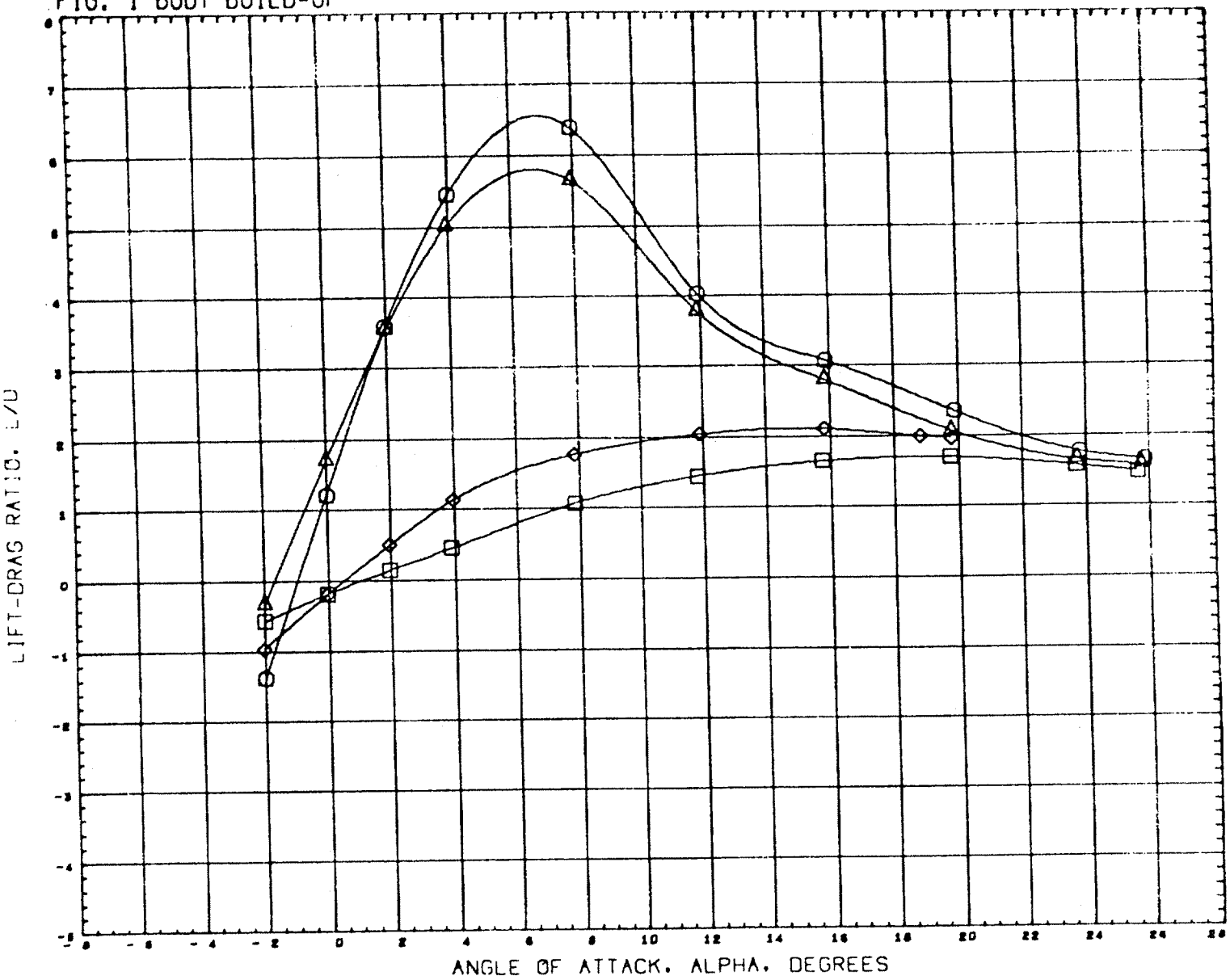
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAR50)	○	AMES 66-563 B22C0W19V10R2	0.000
(CBAR20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAR30)	◇	AMES 66-563 B22C0V10R2	0.000
(CBAR10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8300	IN.
YMRP	0.0000	IN.
ZMRP	1.8150	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



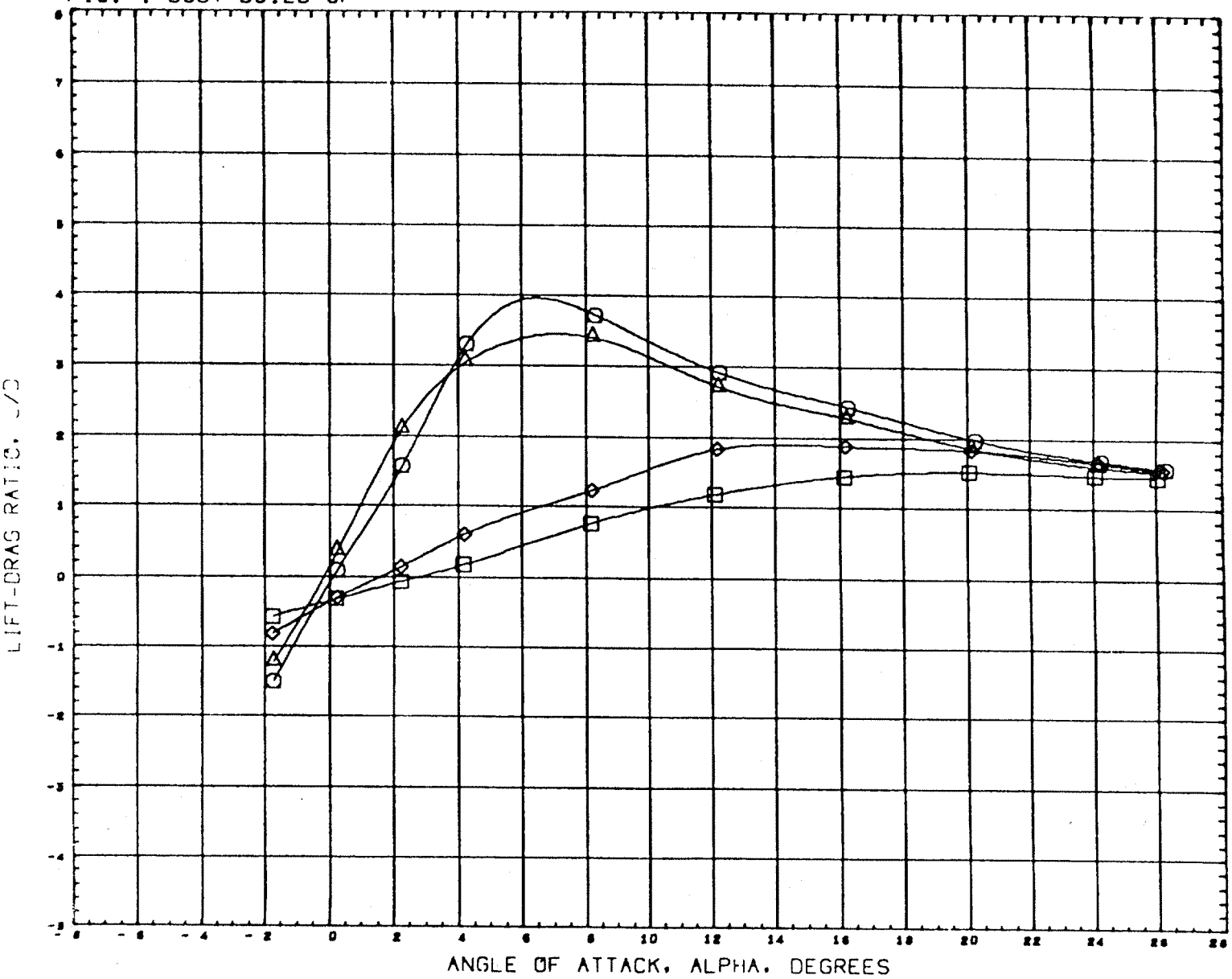
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



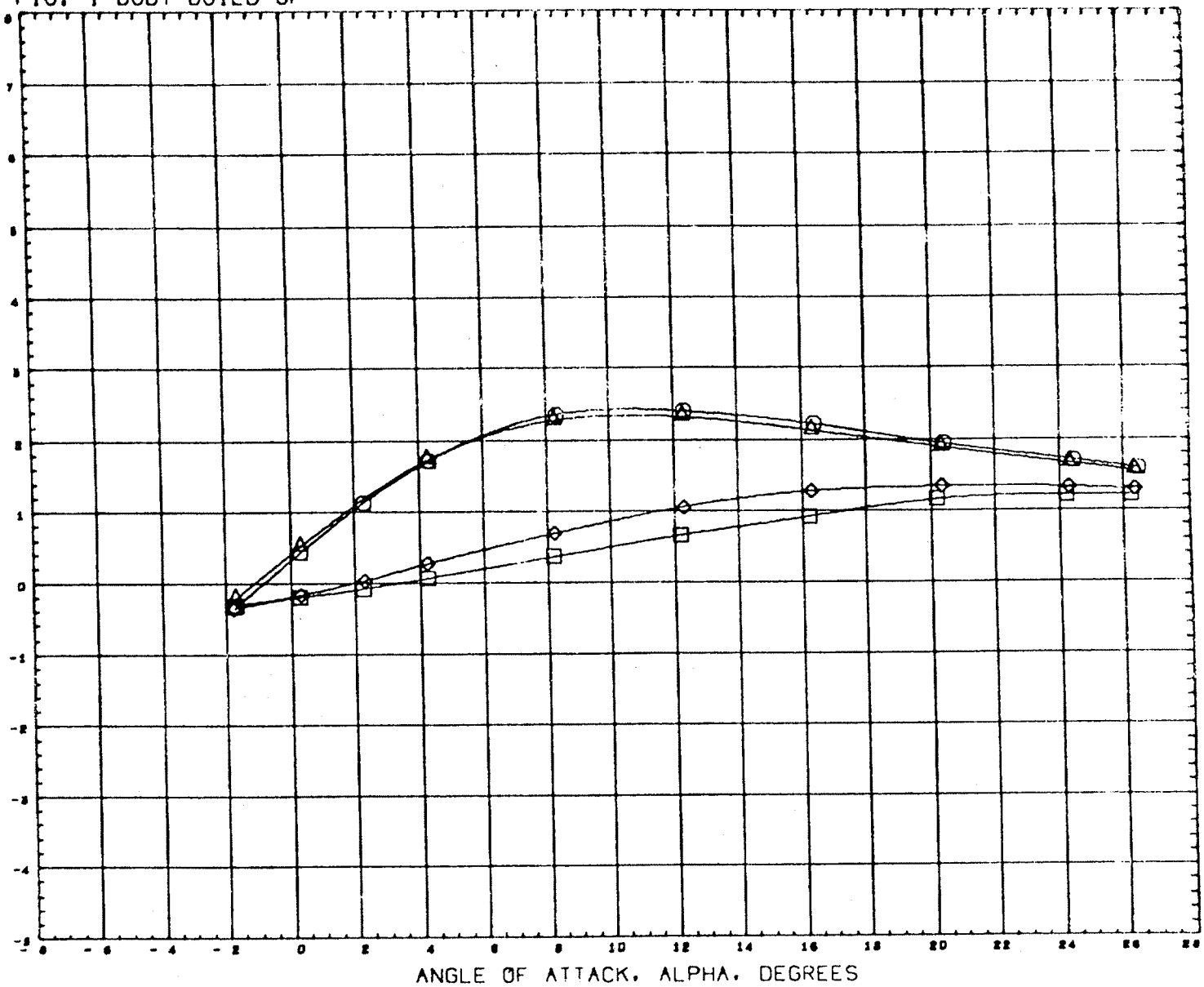
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZC8V10R2	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



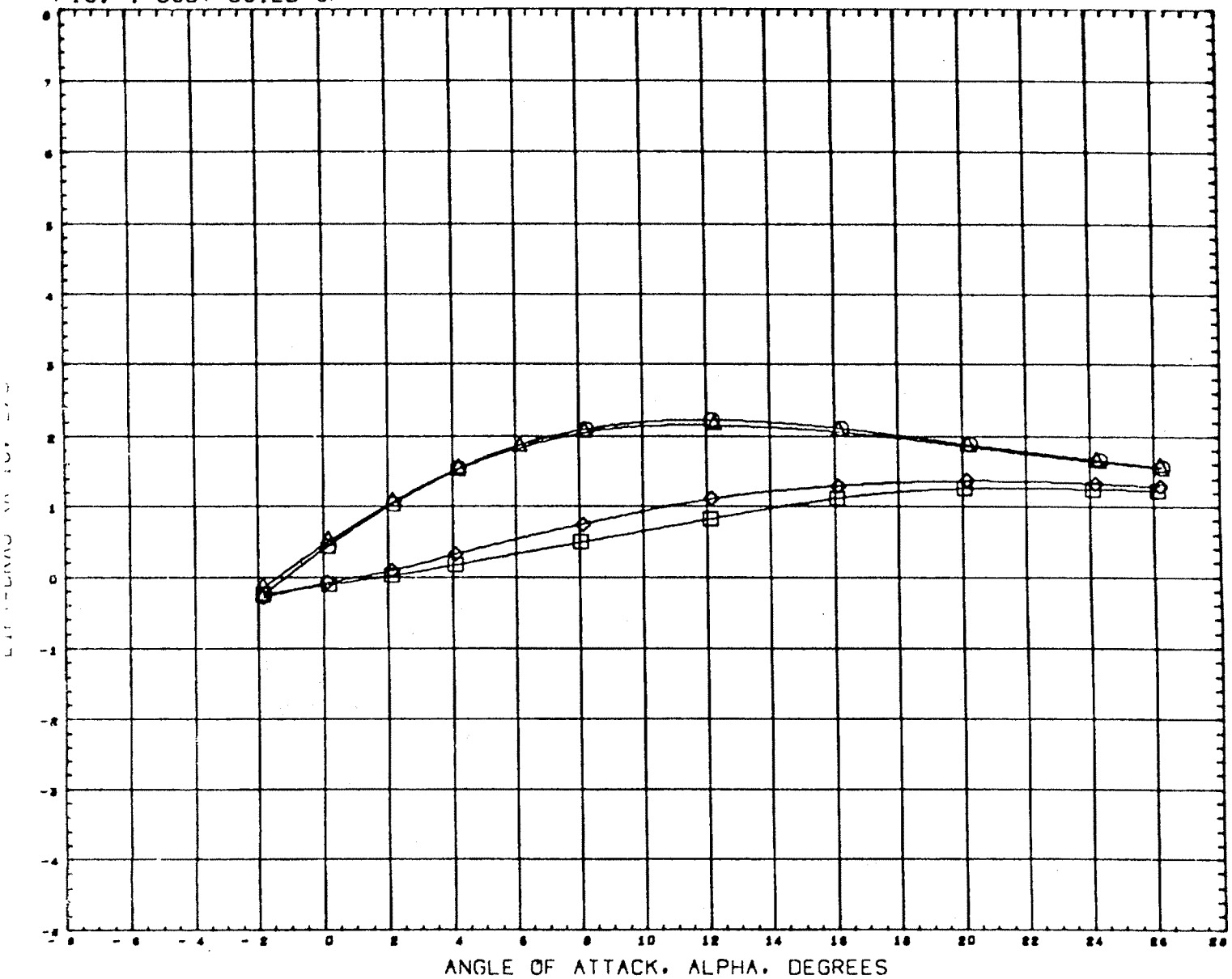
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZC8V10R2	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP

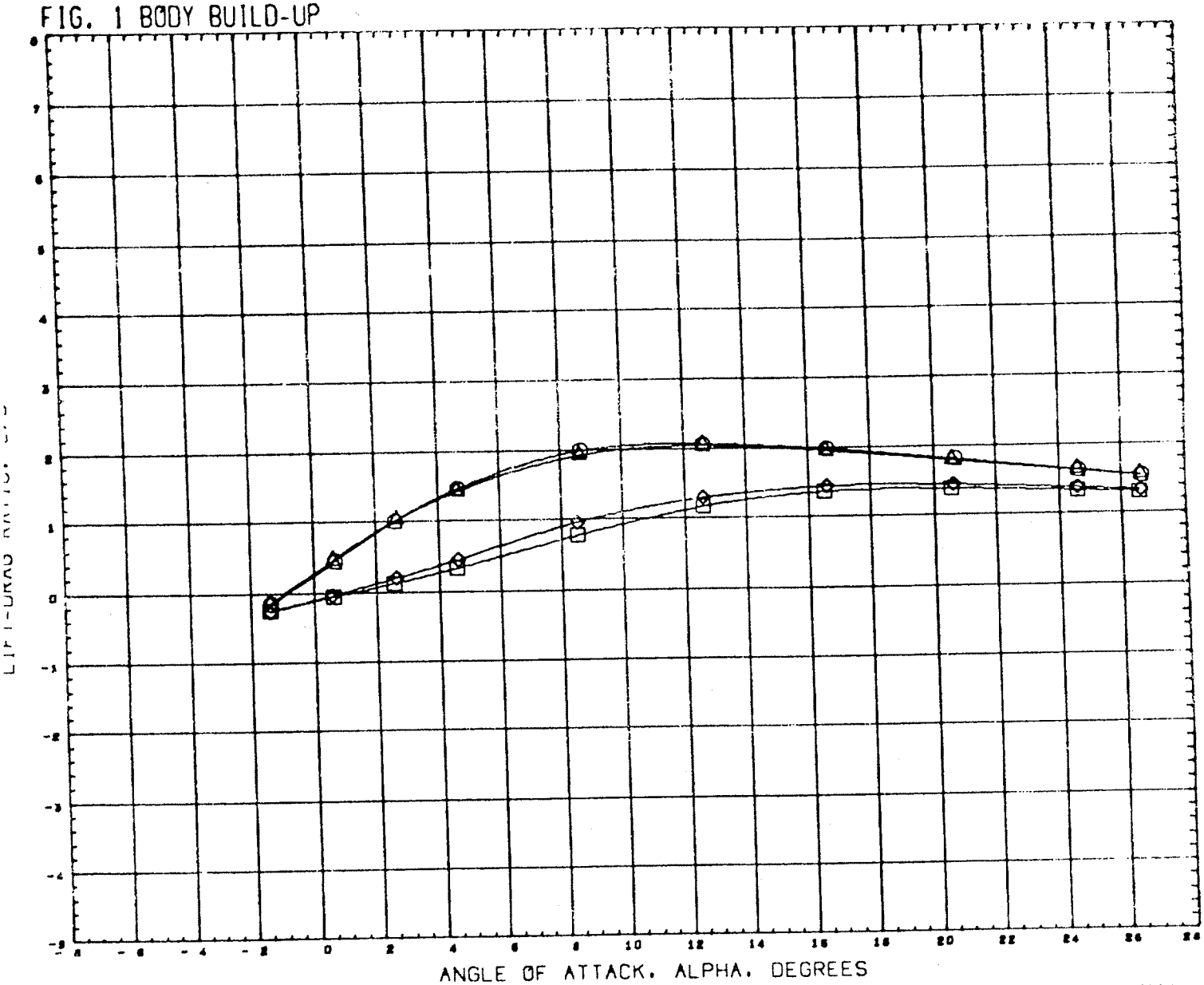


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



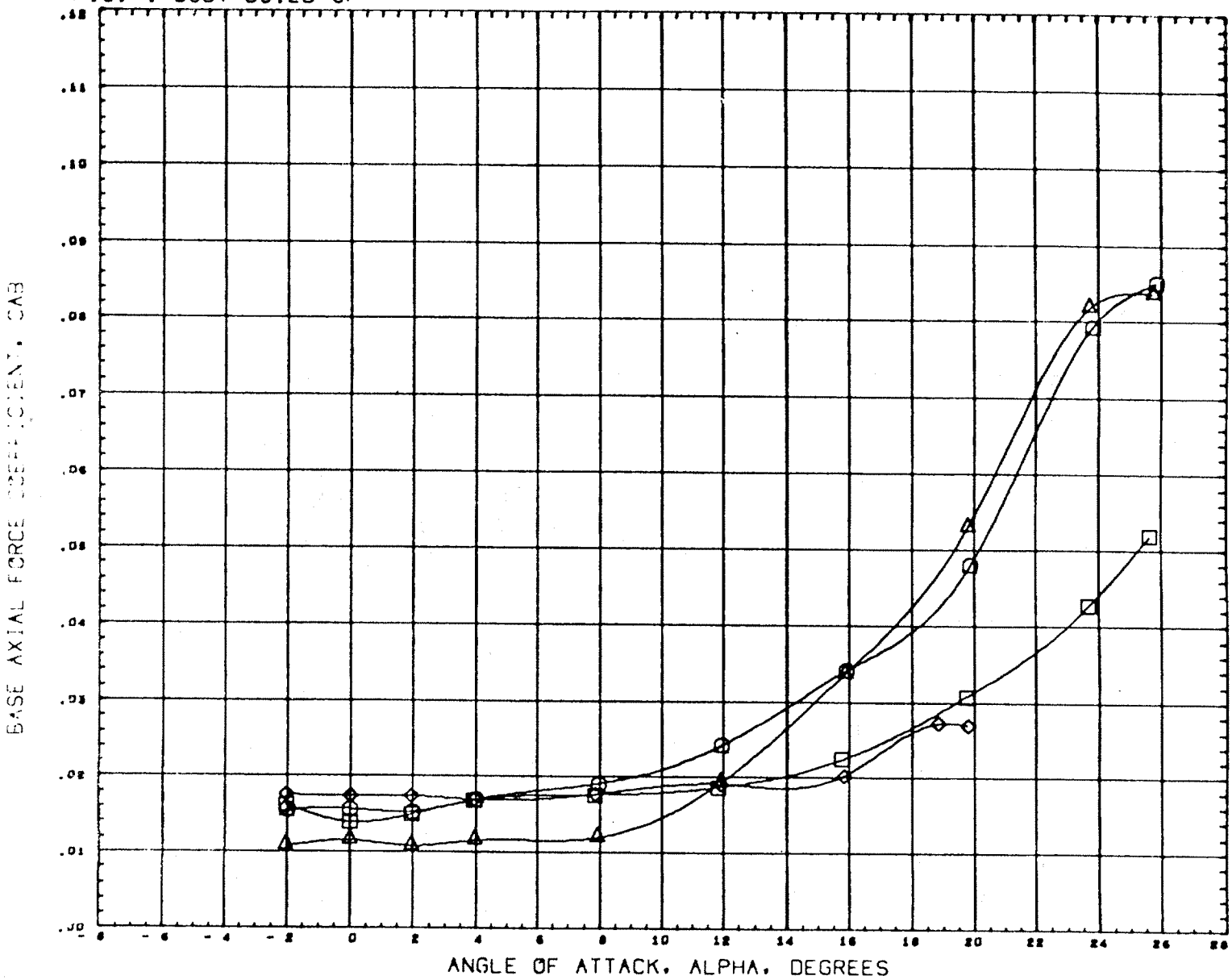
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W13V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1930	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.0500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



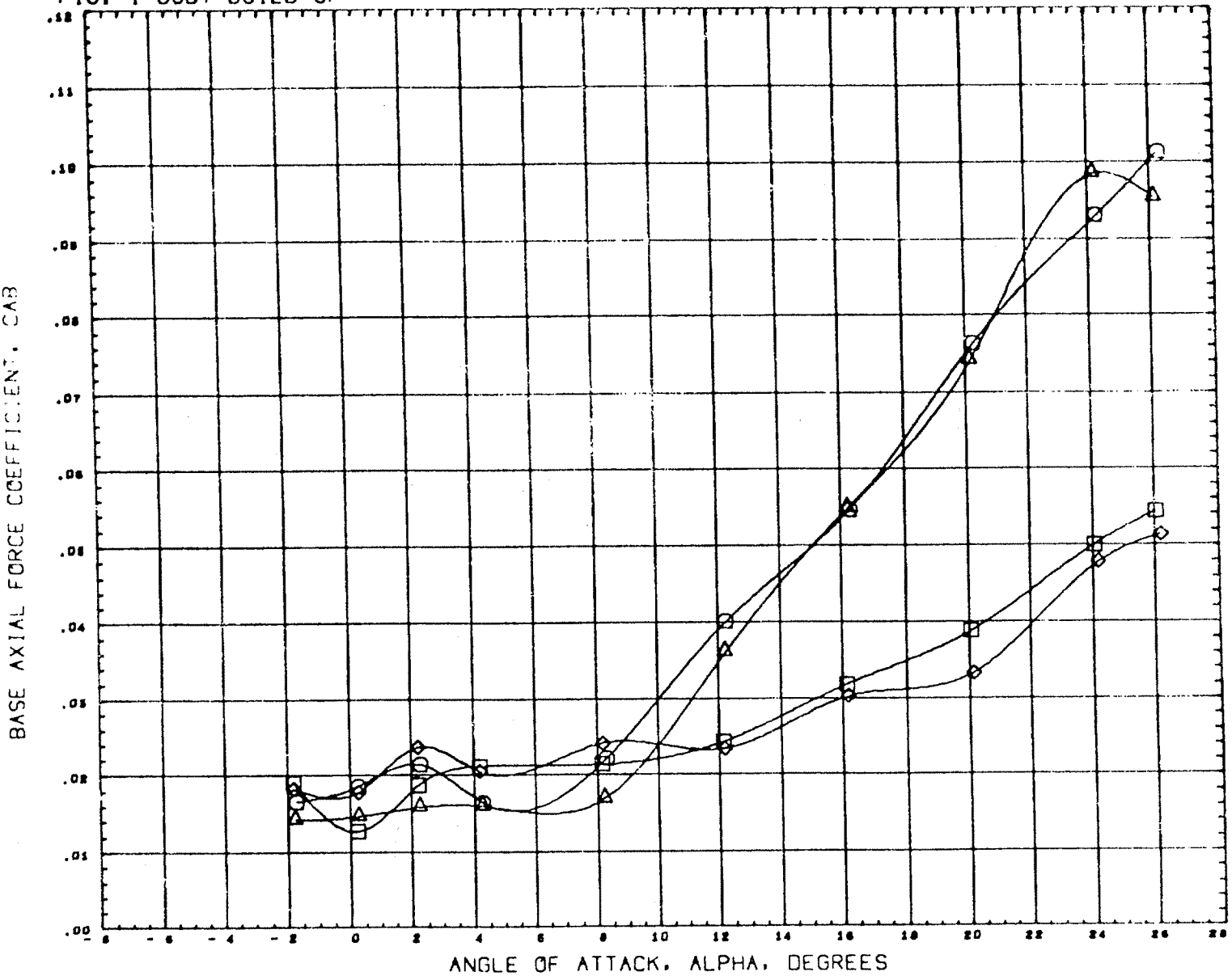
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



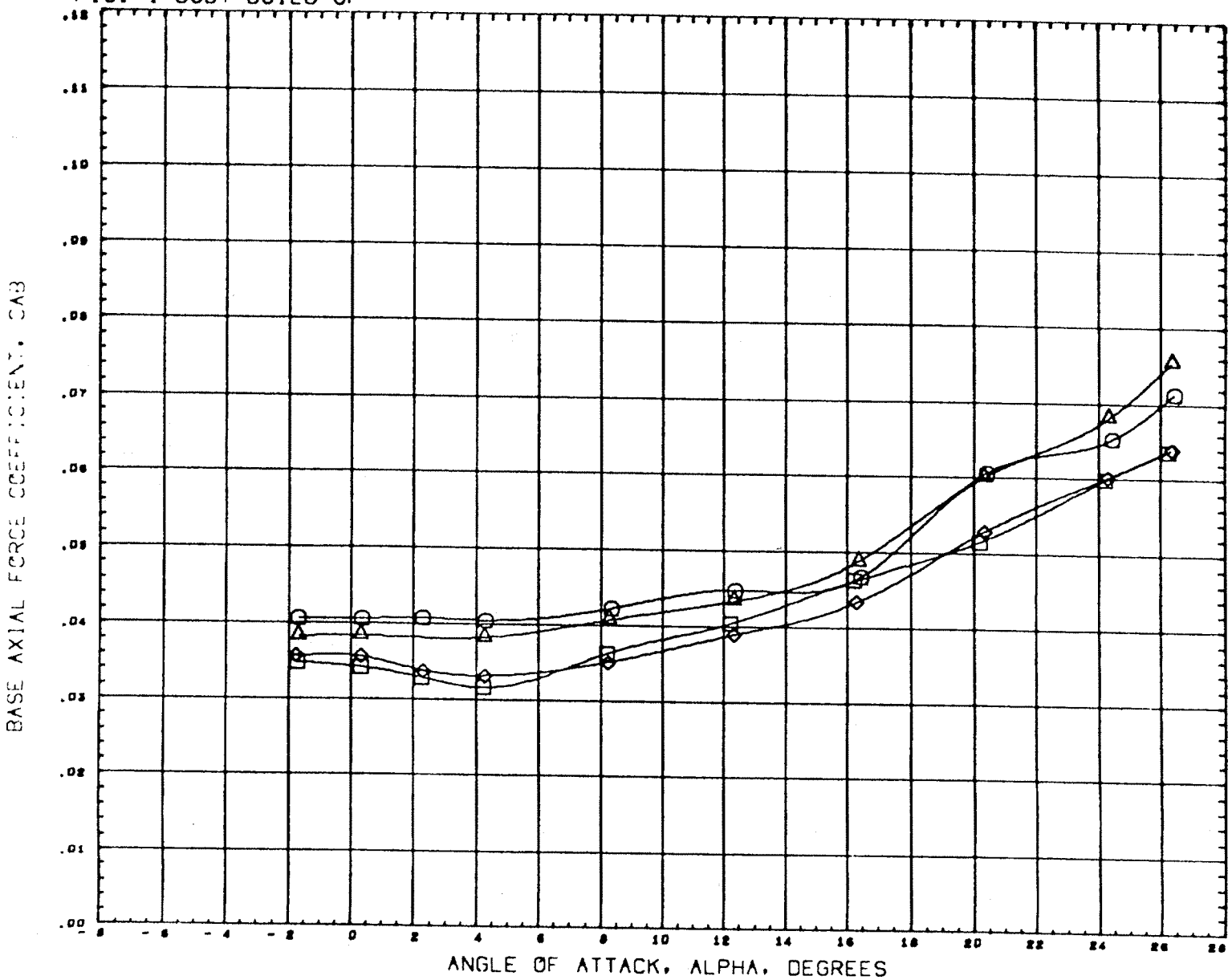
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V1DR2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V1DR2	0.000
(CBAZ10)	□	AMES 66-563 B22V1DR2	0.000

MACH 0.812

REFERENCE INFORMATION

SREF	70.1950	SQ.IN
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



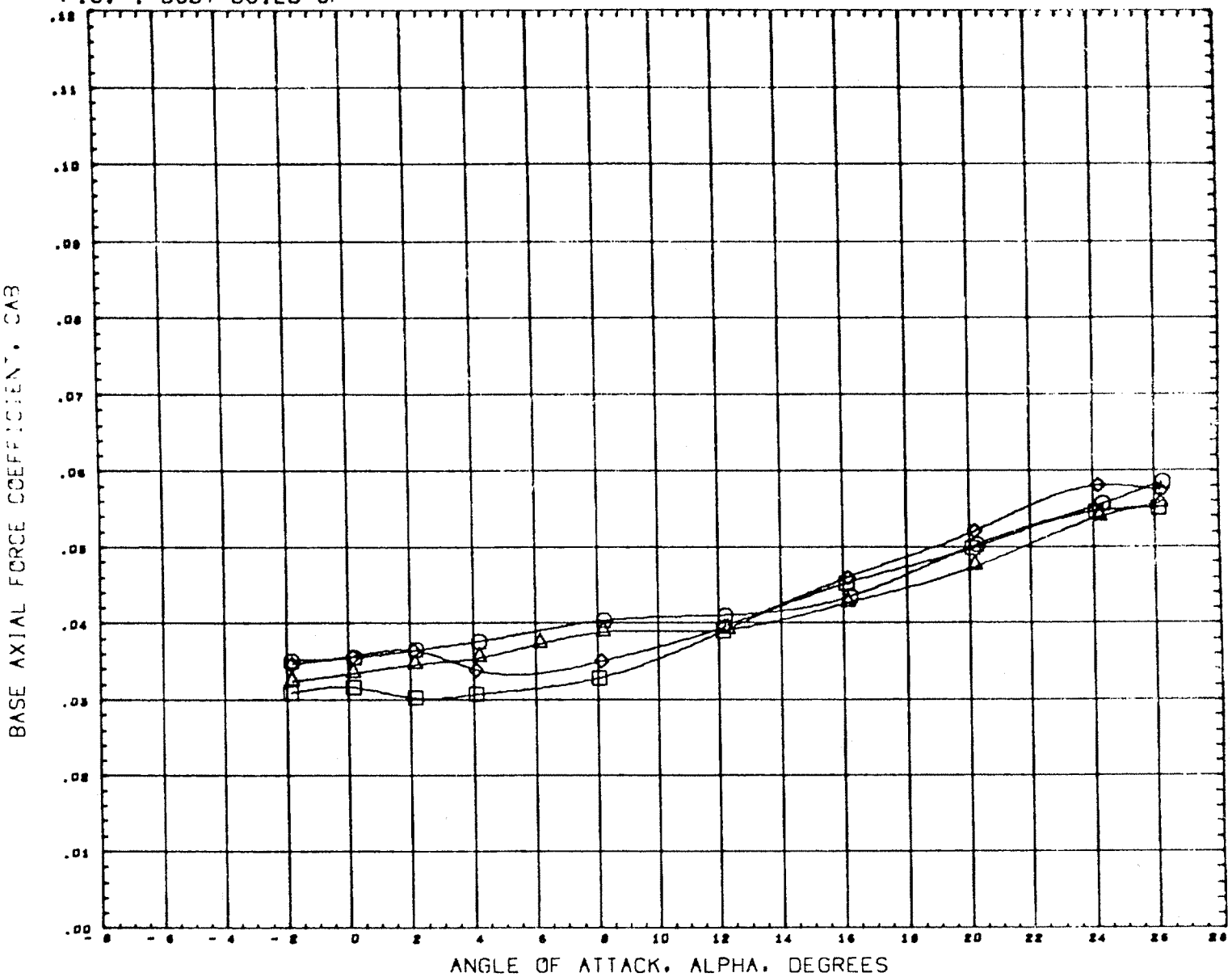
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP

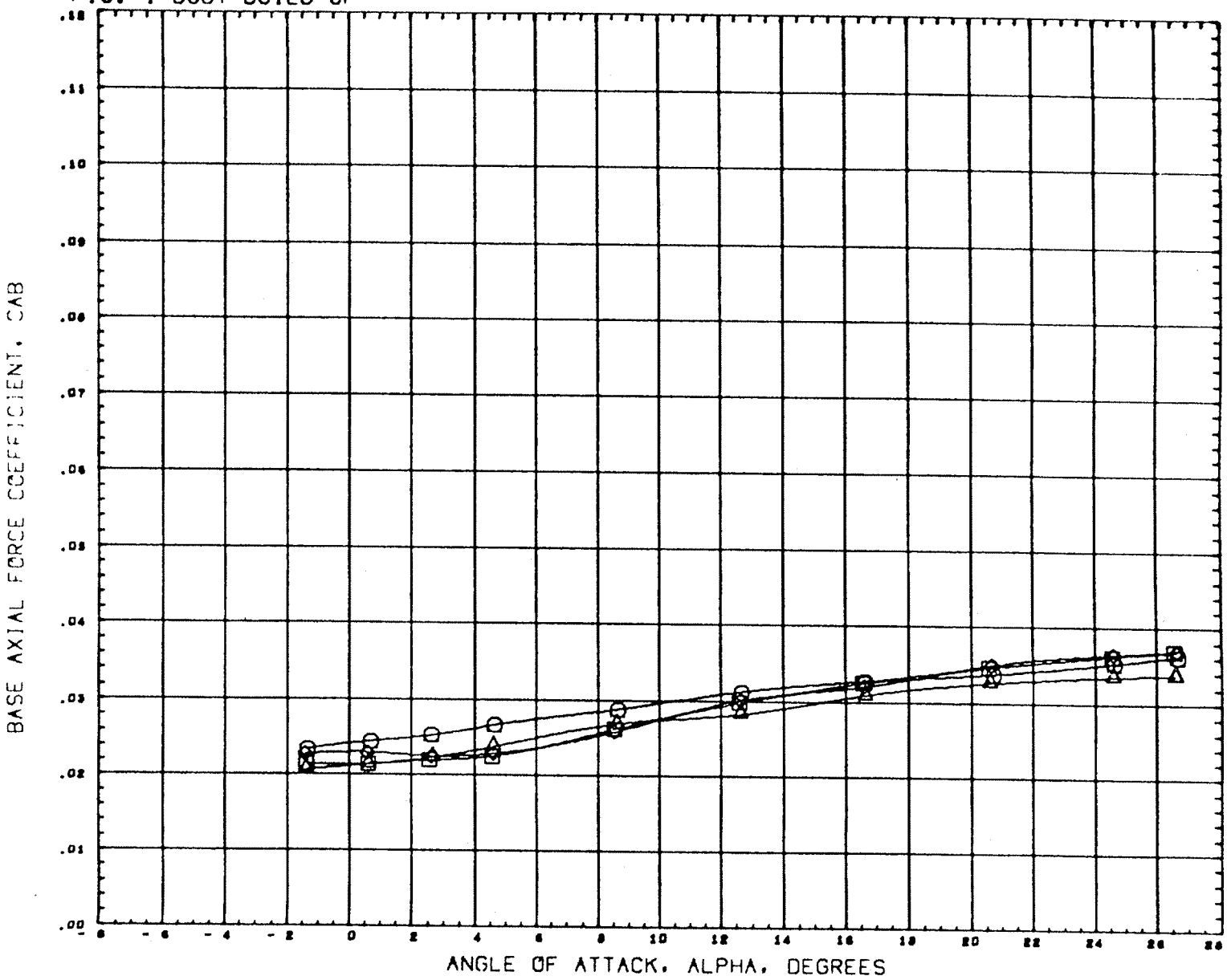


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



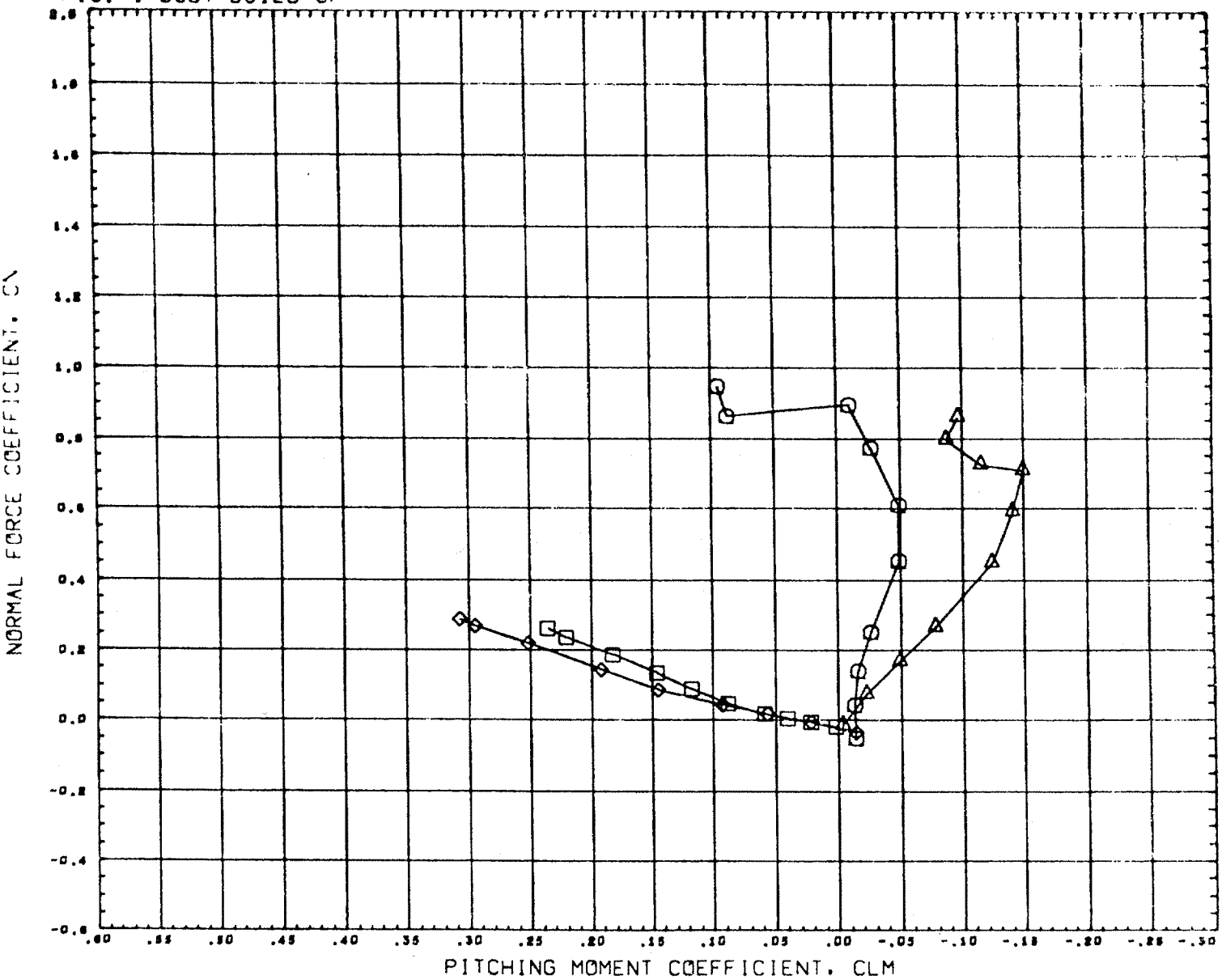
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBAZ40)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZC8V10R2	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



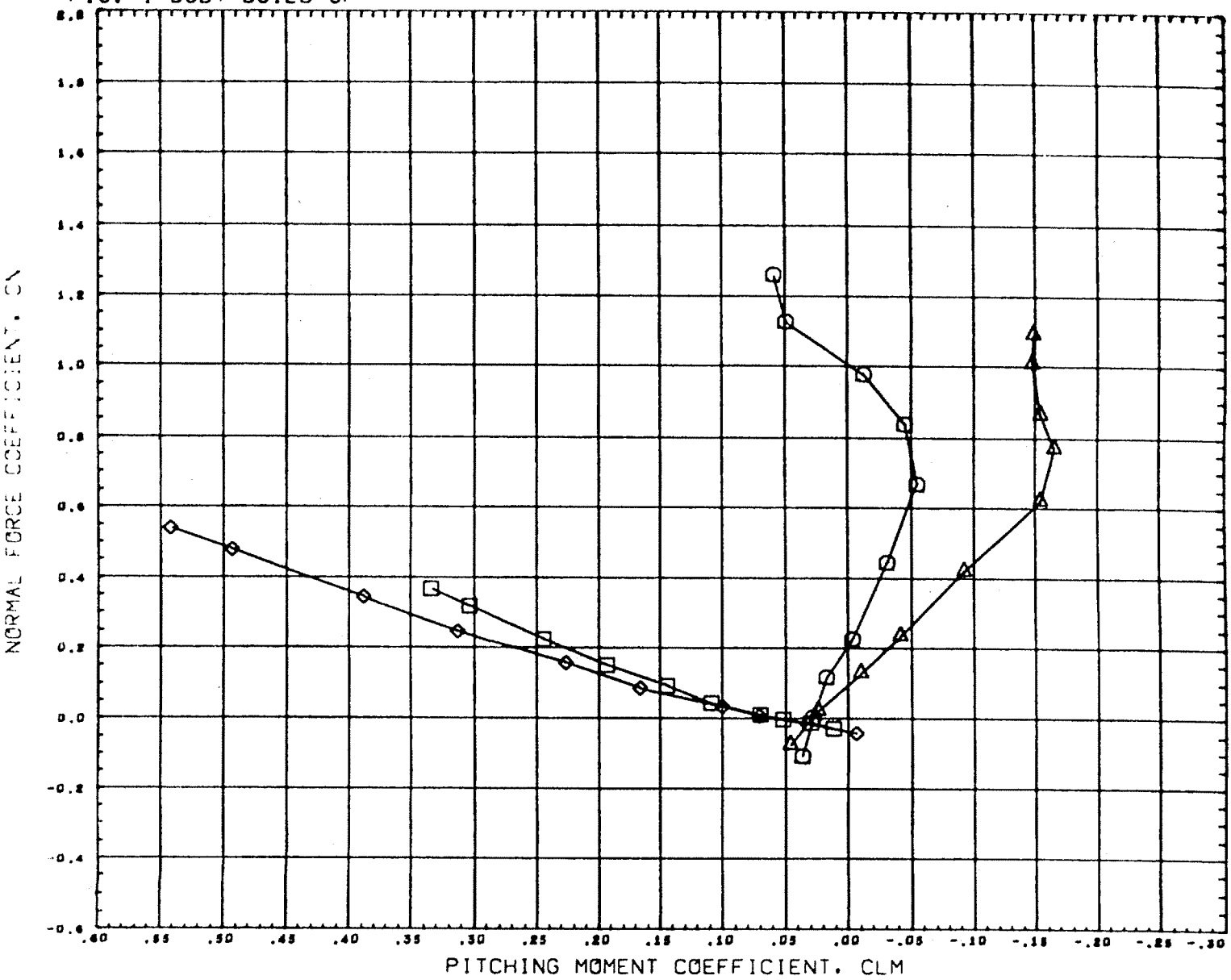
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



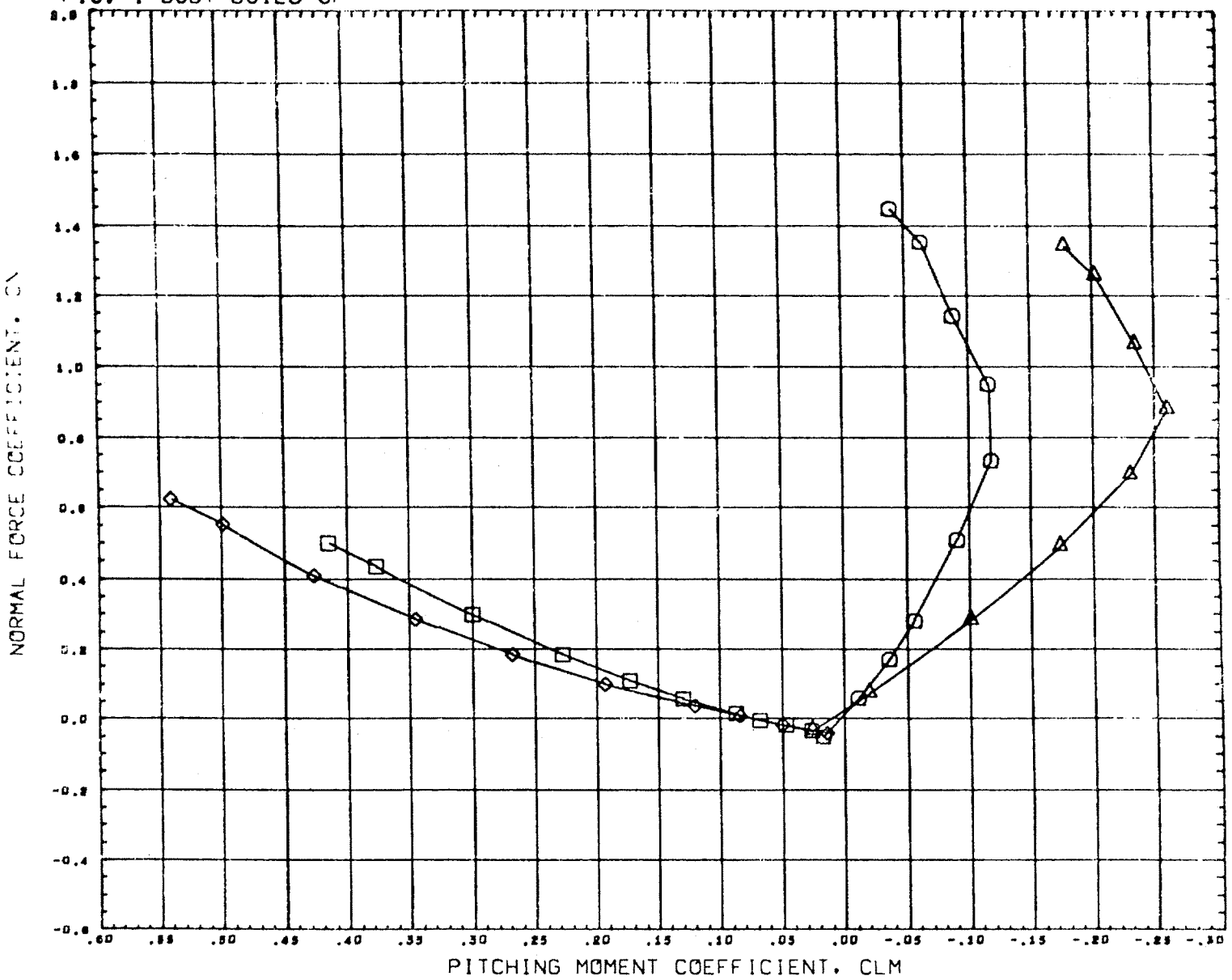
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA230)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	⊗	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	50.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP

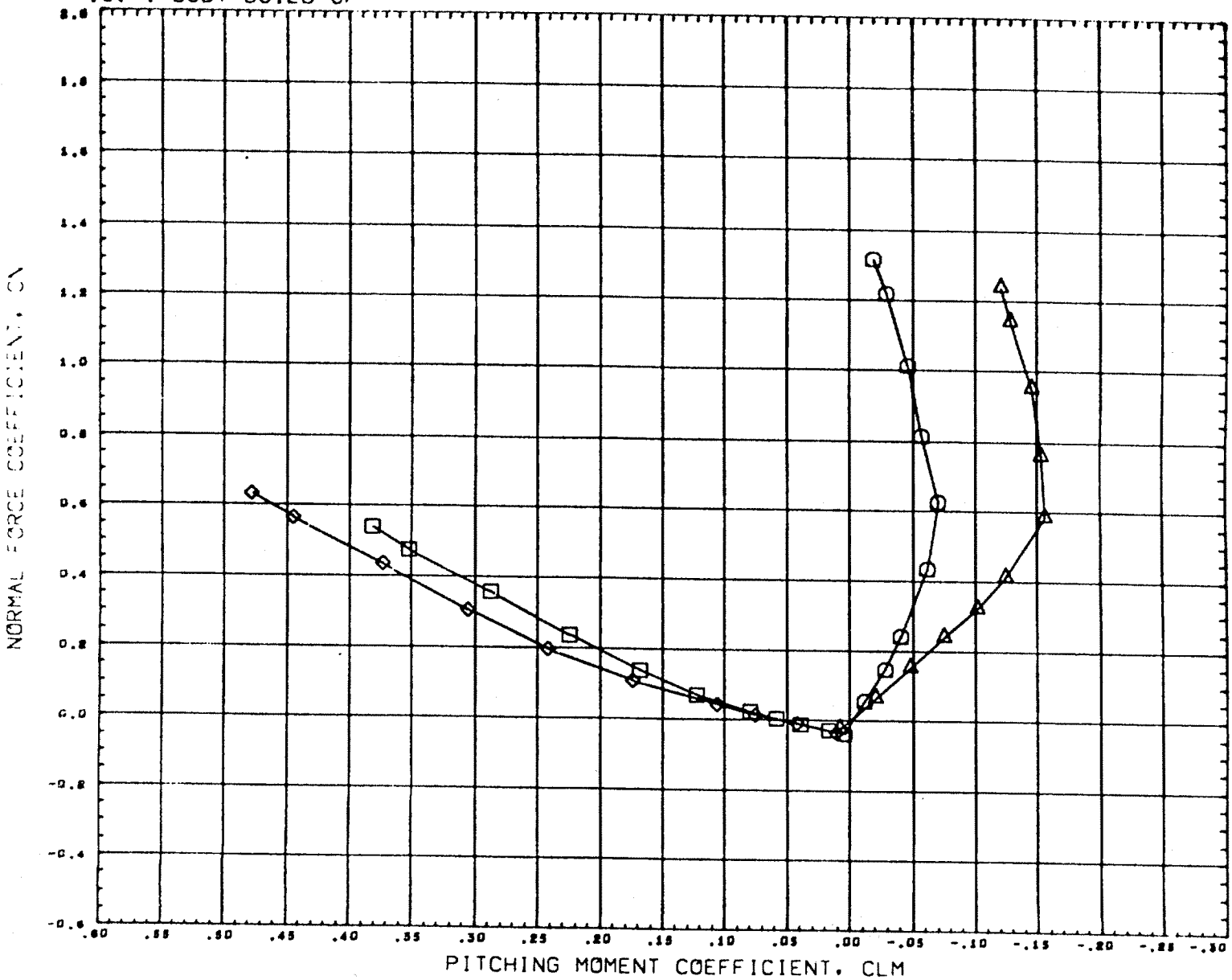


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 55-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 65-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



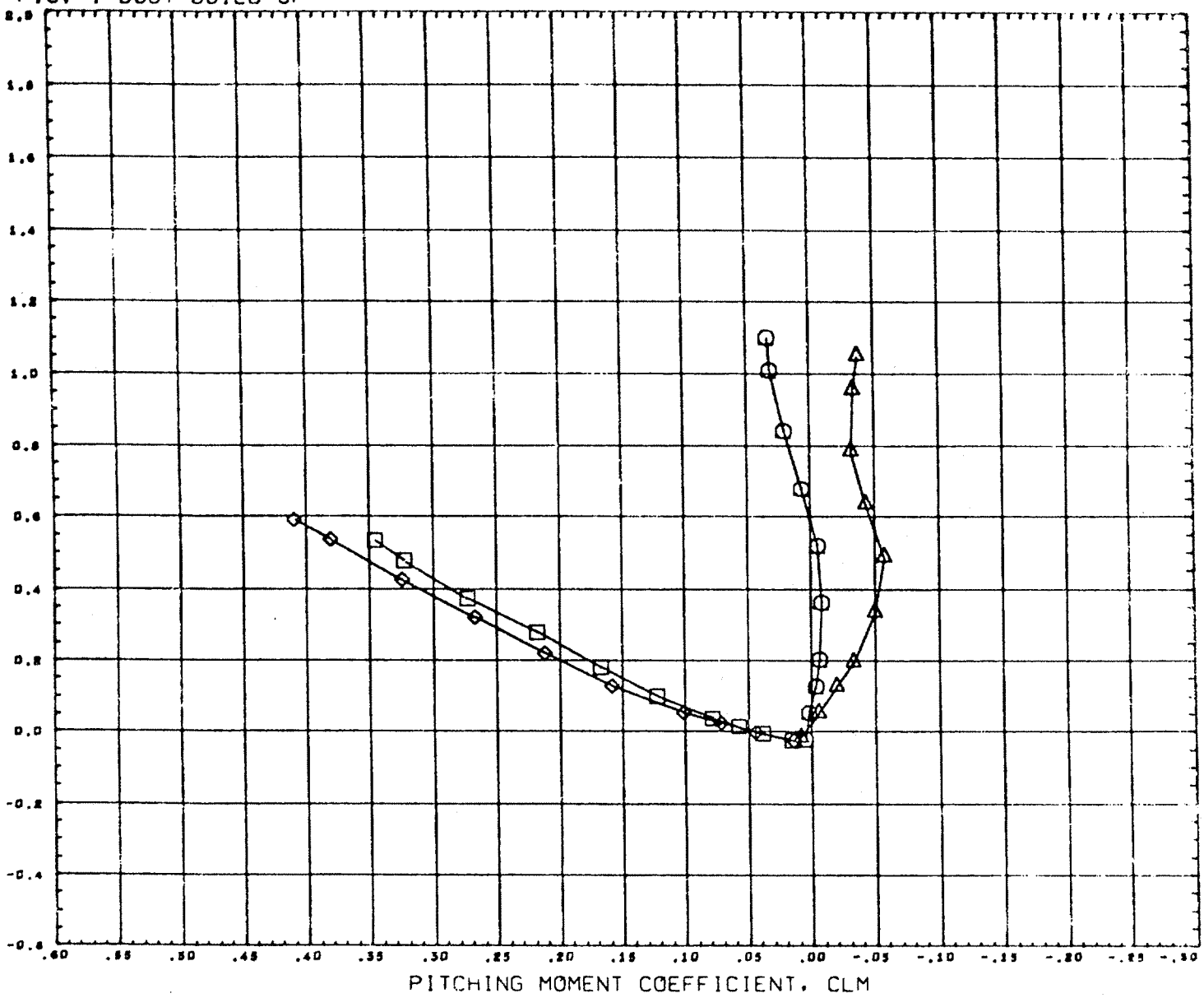
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
(CBAZZ0)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZC8V10R2	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



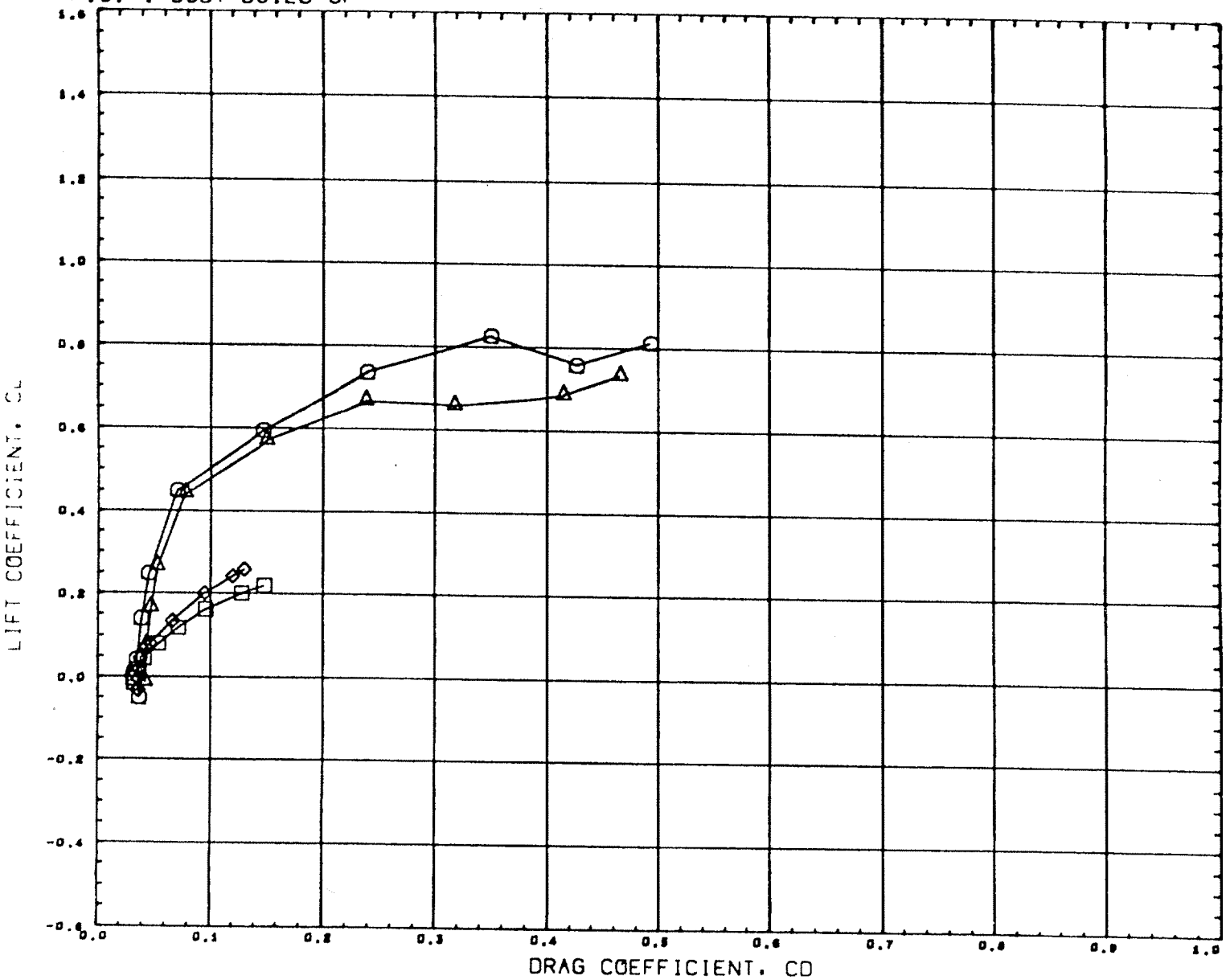
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



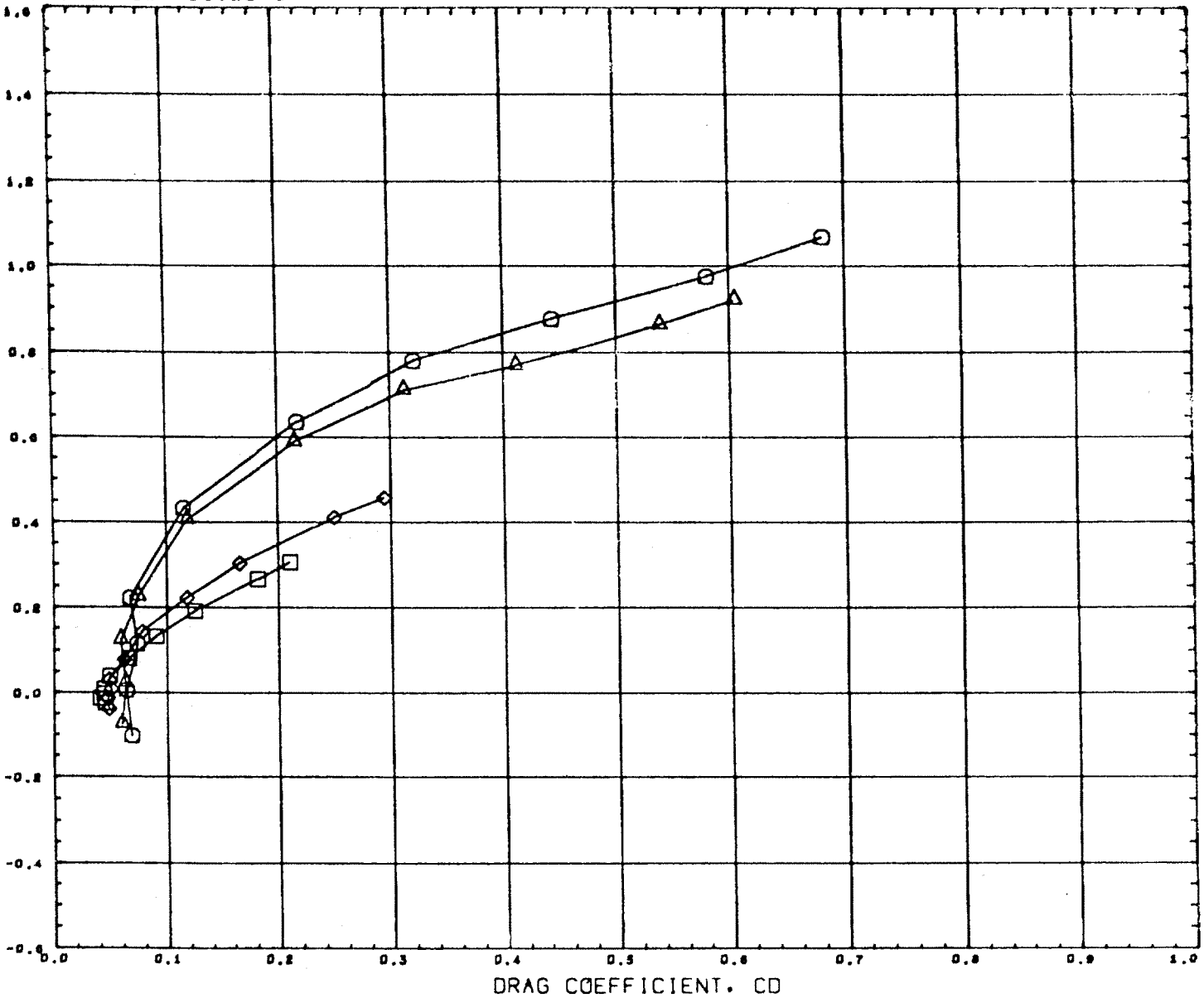
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 BZZCØW19V10R2	0.000
(CBAZ20)	△	AMES 66-563 BZZW19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 BZZCØV10R2	0.000
(CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



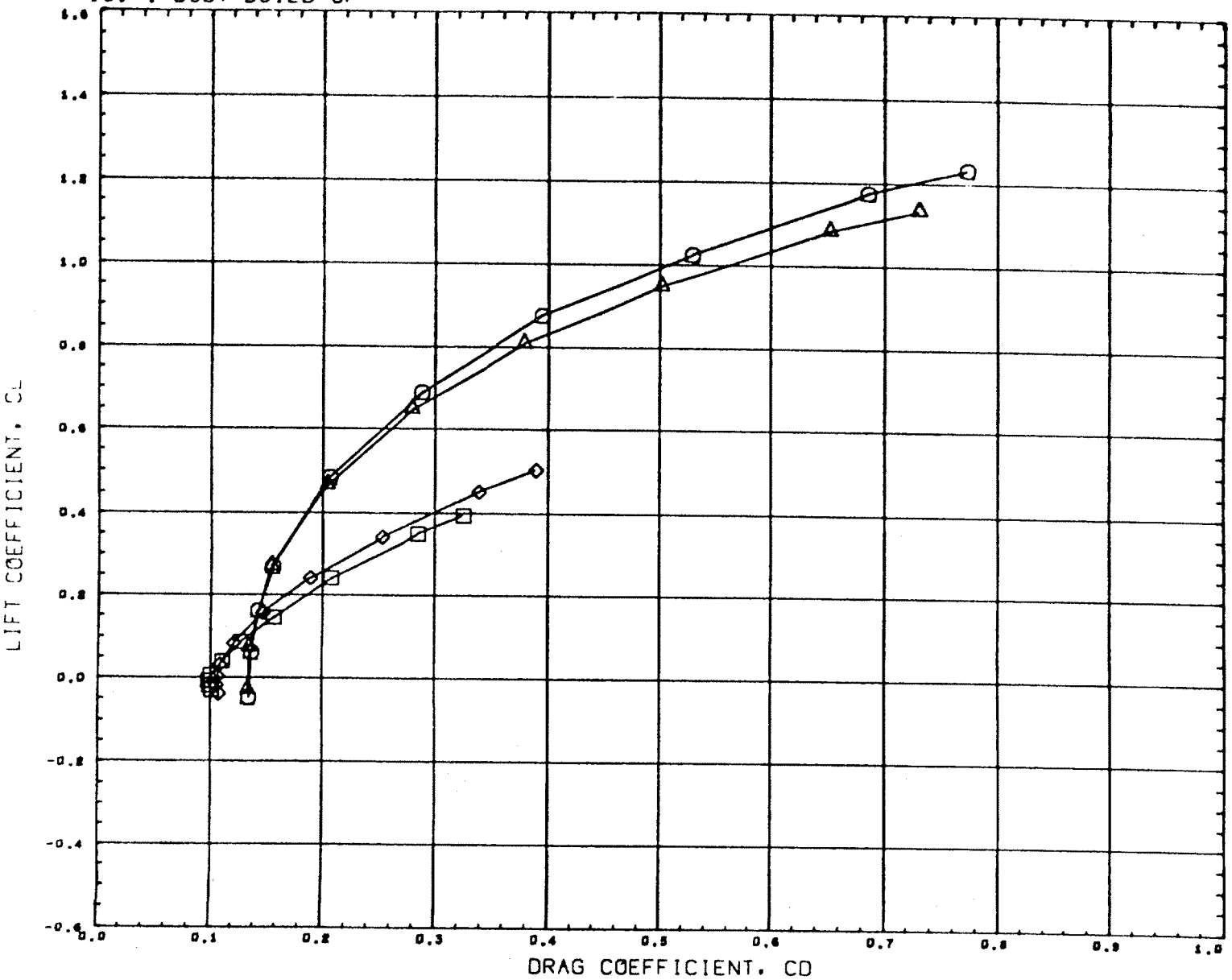
ATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000
CBAZ20)	△	AMES 66-563 BZZW19R2V10	0.000
CBAZ30)	◇	AMES 66-563 BZZC8V10R2	0.000
CBAZ10)	□	AMES 66-563 BZZV10R2	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



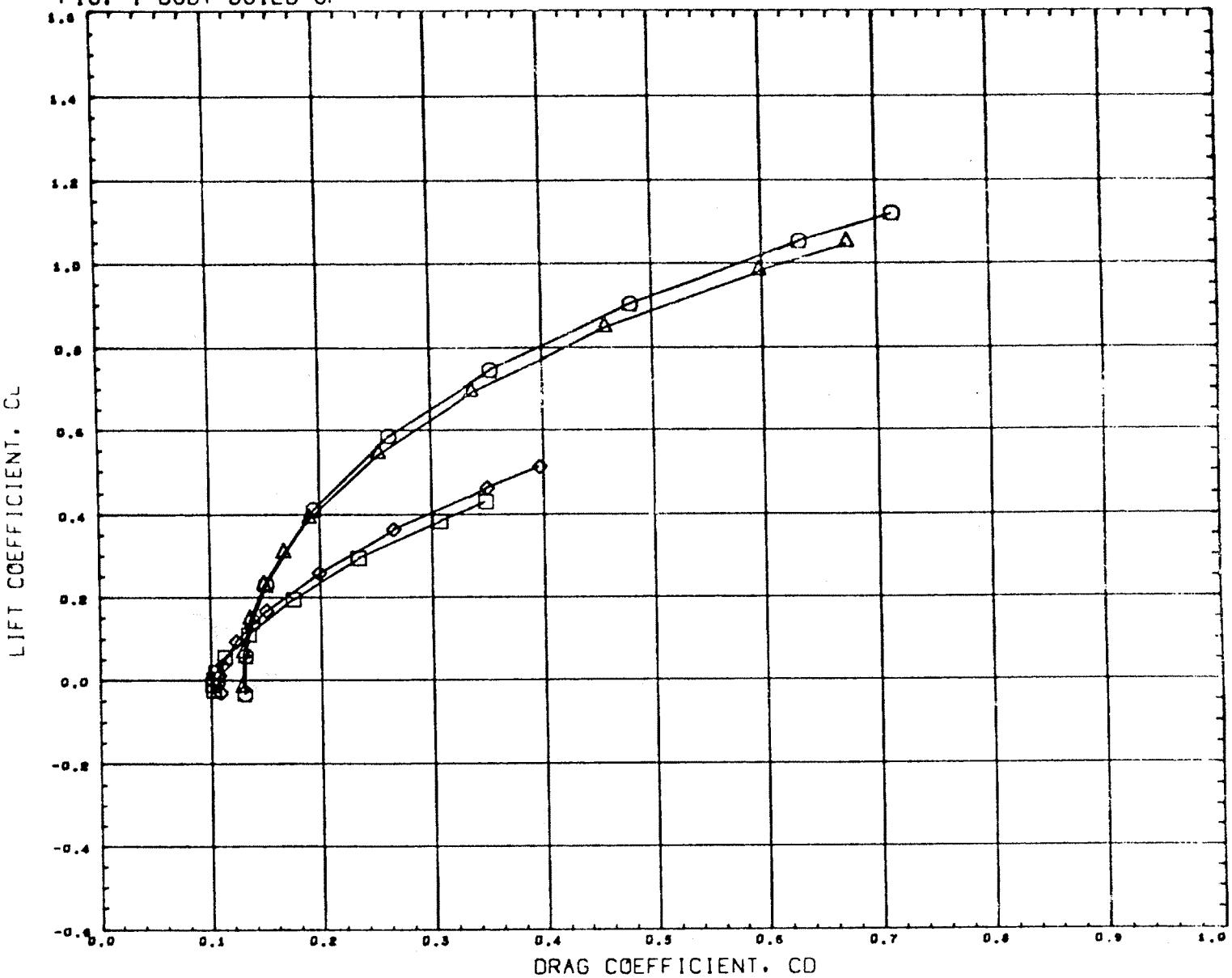
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



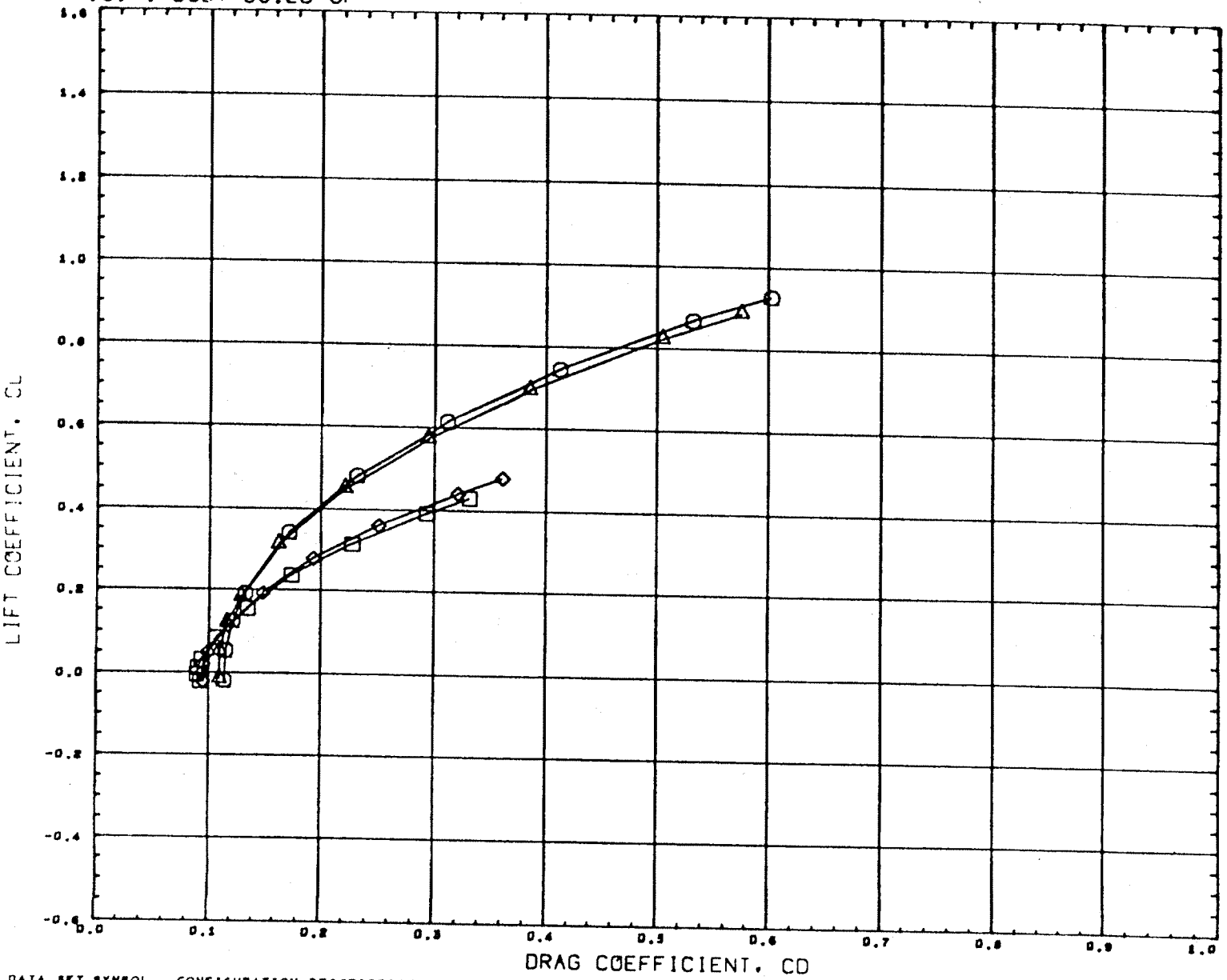
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBA250)	○	AMES 66-563 B22C5W19V10R2	0.000
(CBA220)	△	AMES 66-563 B22W19R2V10	0.000
(CBA230)	◇	AMES 66-563 B22C8V10R2	0.000
(CBA210)	□	AMES 66-563 B22V10R2	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 1 BODY BUILD-UP



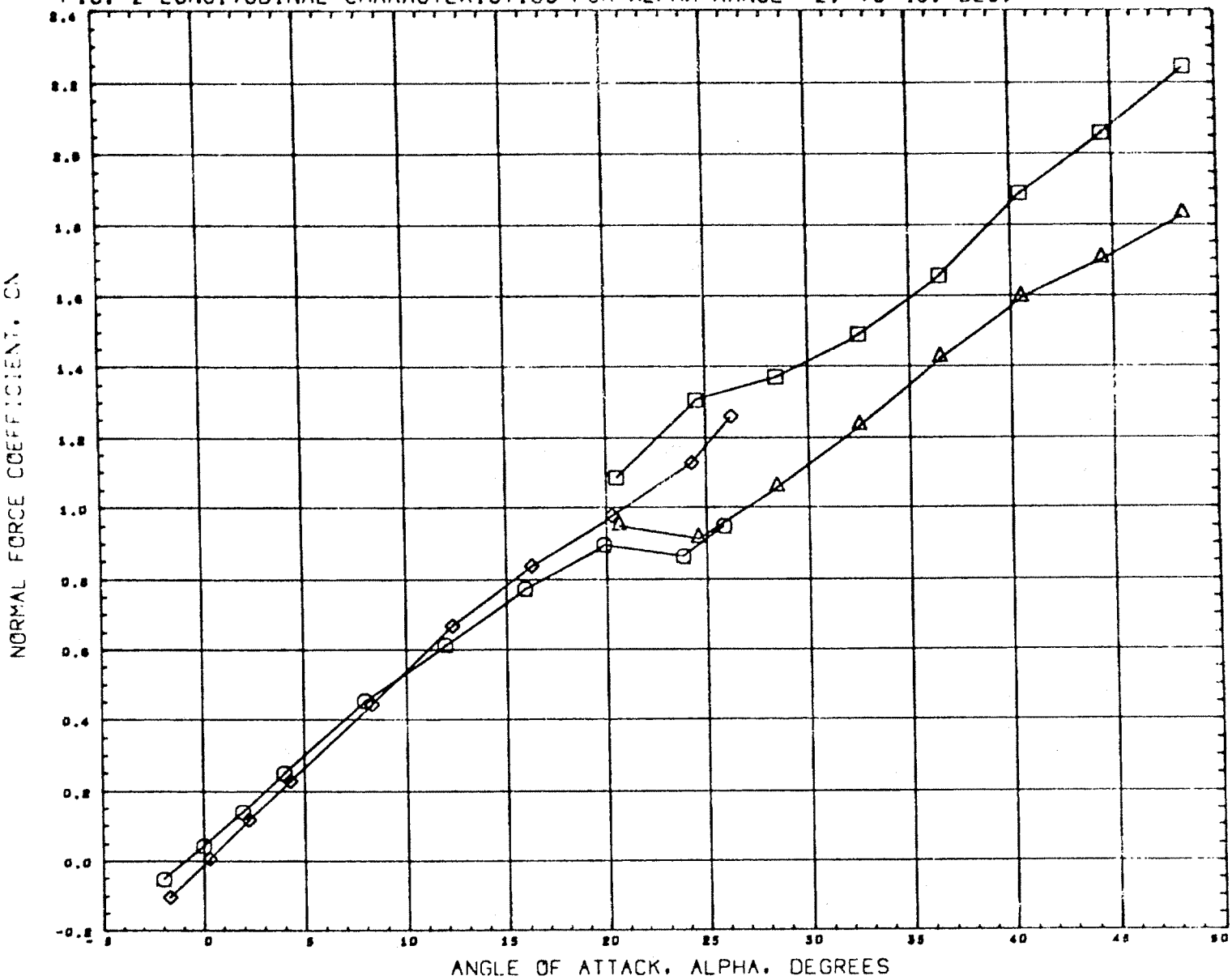
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000
(CBAZ20)	△	AMES 66-563 B22W19R2V10	0.000
(CBAZ30)	◇	AMES 66-563 B22C8V10R2	0.000
(CBAZ10)	□	AMES 66-563 B22V10R2	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1850	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 2 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48. DEG.



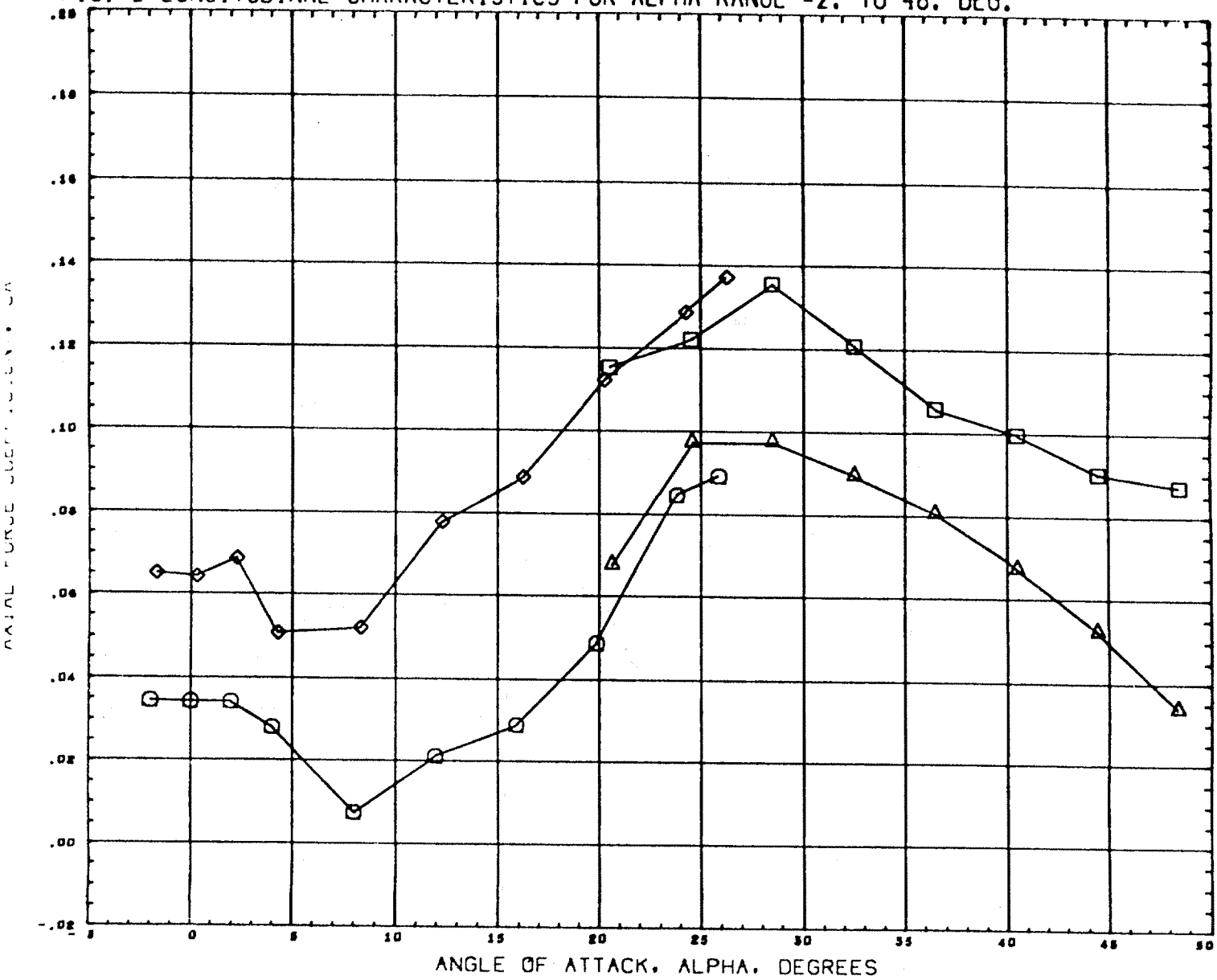
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	IC	ELEVTR
(VBA250)	○	AMES 66-563 B22C0W19V10R2	0.611	0.000	0.000
(VBA340)	△	AMES 66-563 B22C0W19R3	0.613	0.000	0.000
(WBA250)	◇	AMES 66-563 B22C0W19V10R2	0.912	0.000	0.000
(WBA340)	□	AMES 66-563 B22C0W19R3	0.918	0.000	0.000

BETA 0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	8.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 2 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(VBA250)	○	AMES 66-563 B22C8W19V10R2
(VBA340)	△	AMES 66-563 B22C8W19R3
(WBA250)	◇	AMES 66-563 B22C8W19V10R2
(WBA340)	□	AMES 66-563 B22C8W19R3

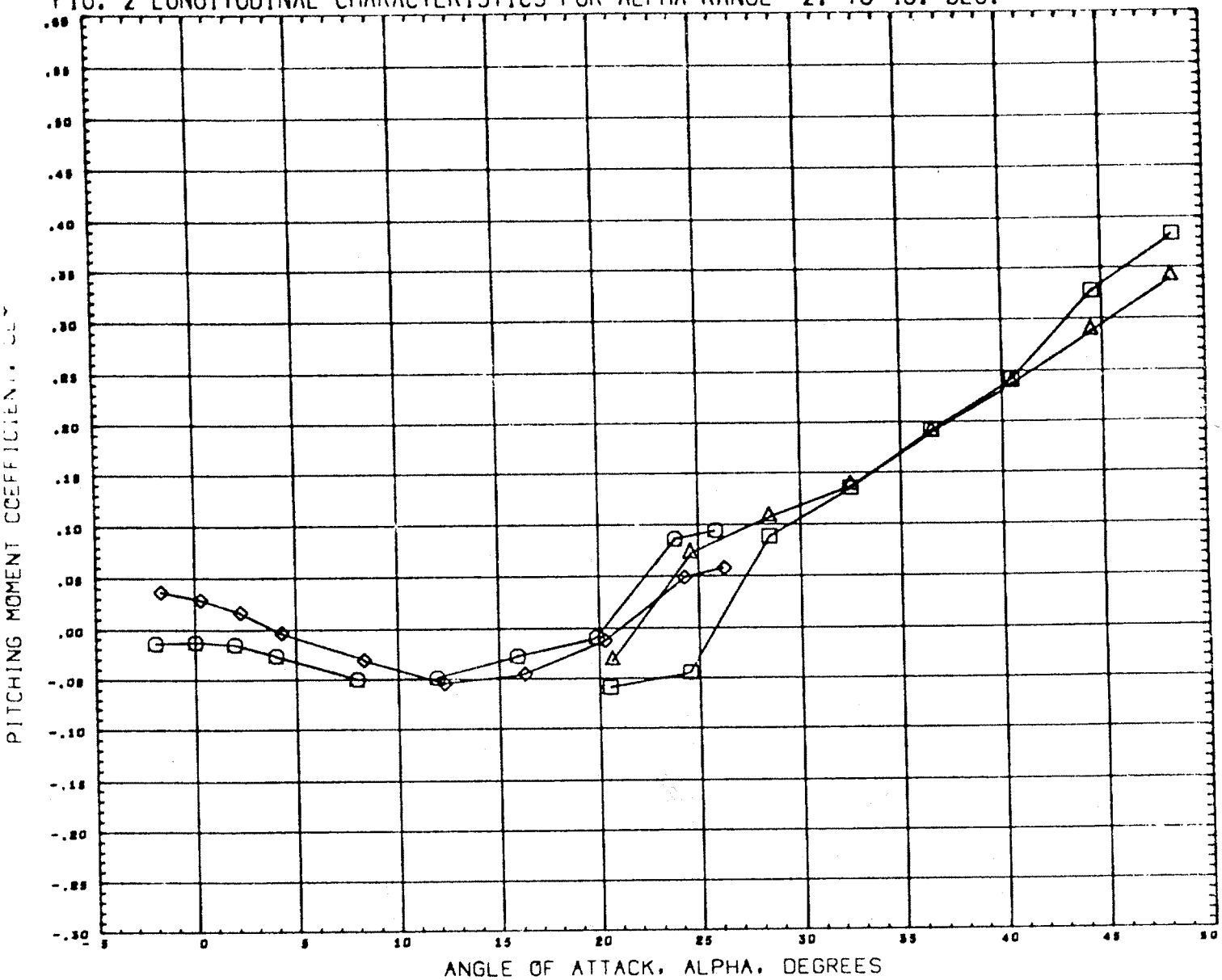
BETA 0.000

MACH	IC	ELEVTR
0.611	0.000	0.000
0.613	0.000	0.000
0.912	0.000	0.000
0.918	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 2 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(VBA250)	○	AMES 66-563 B22C8W19V10R2
(VBA340)	△	AMES 66-563 B22C8W19R3
(WBA250)	◇	AMES 66-563 B22C8W19V10R2
(WBA340)	□	AMES 66-563 B22C8W19R3

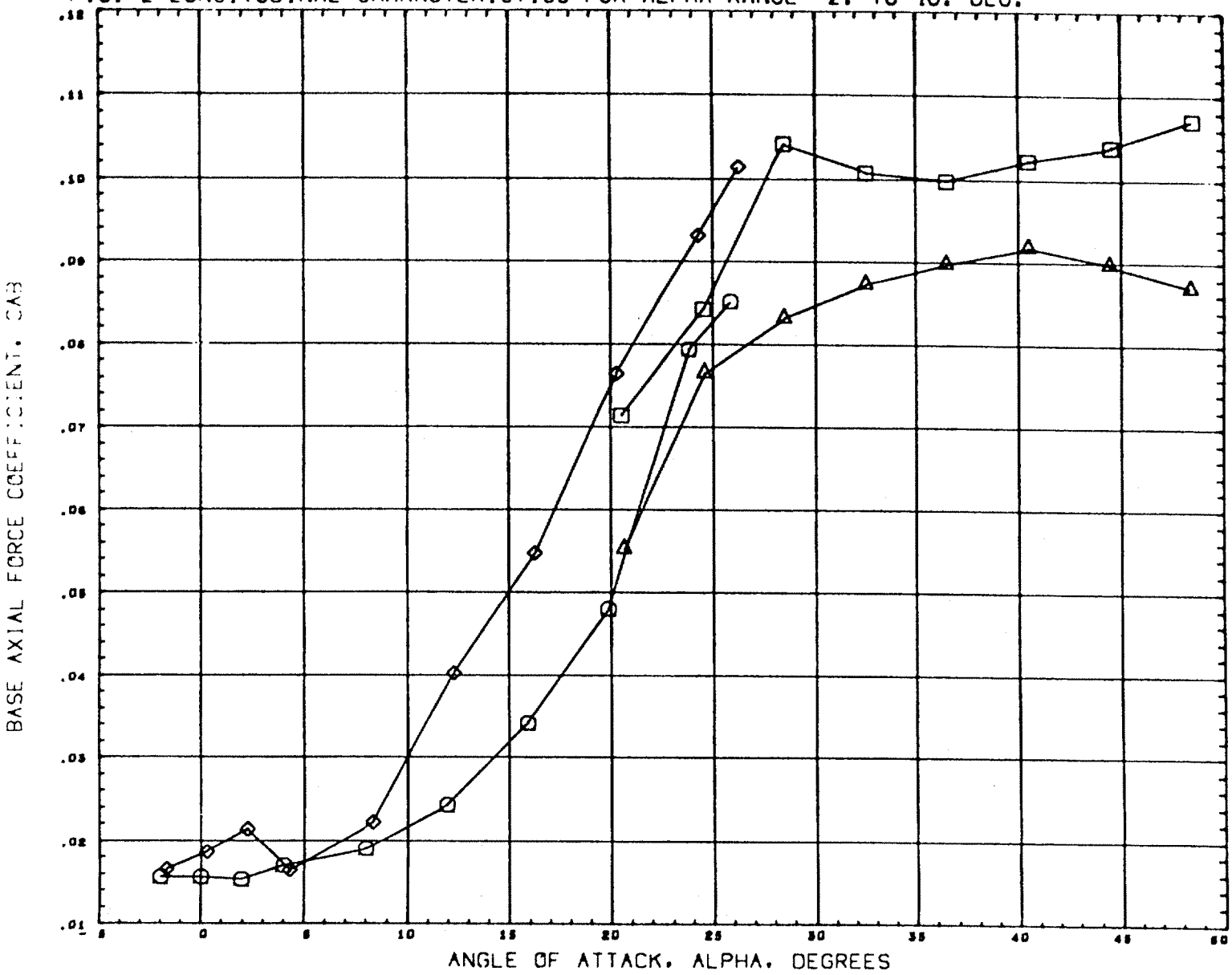
MACH	IC	ELEVTR
0.611	0.000	0.000
0.613	0.000	0.000
0.912	0.000	0.000
0.918	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

BETA 0.000

FIG. 2 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(VBA250)	○	AMES 66-563 B22C8W19V10R2
(VBA340)	△	AMES 66-563 B22C8W19R3
(WBA250)	◇	AMES 66-563 B22C8W19V10R2
(WBA340)	□	AMES 66-563 B22C8W19R3

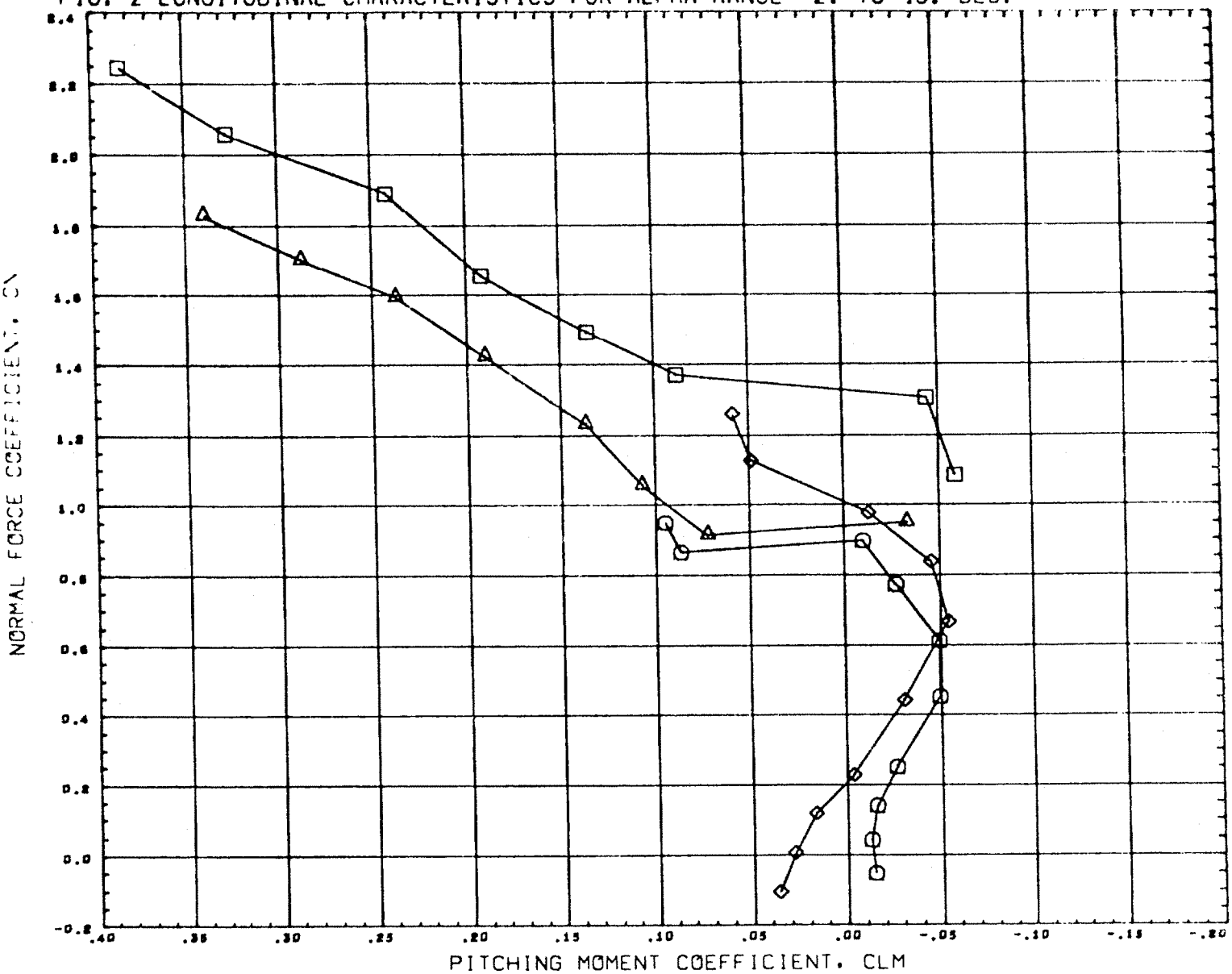
BETA 0.000

MACH	IC	ELEVTR
0.611	0.000	0.000
0.613	0.000	0.000
0.812	0.000	0.000
0.918	0.000	0.000

REFERENCE INFORMATION

SREF	70.1850	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 2 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48. DEG.



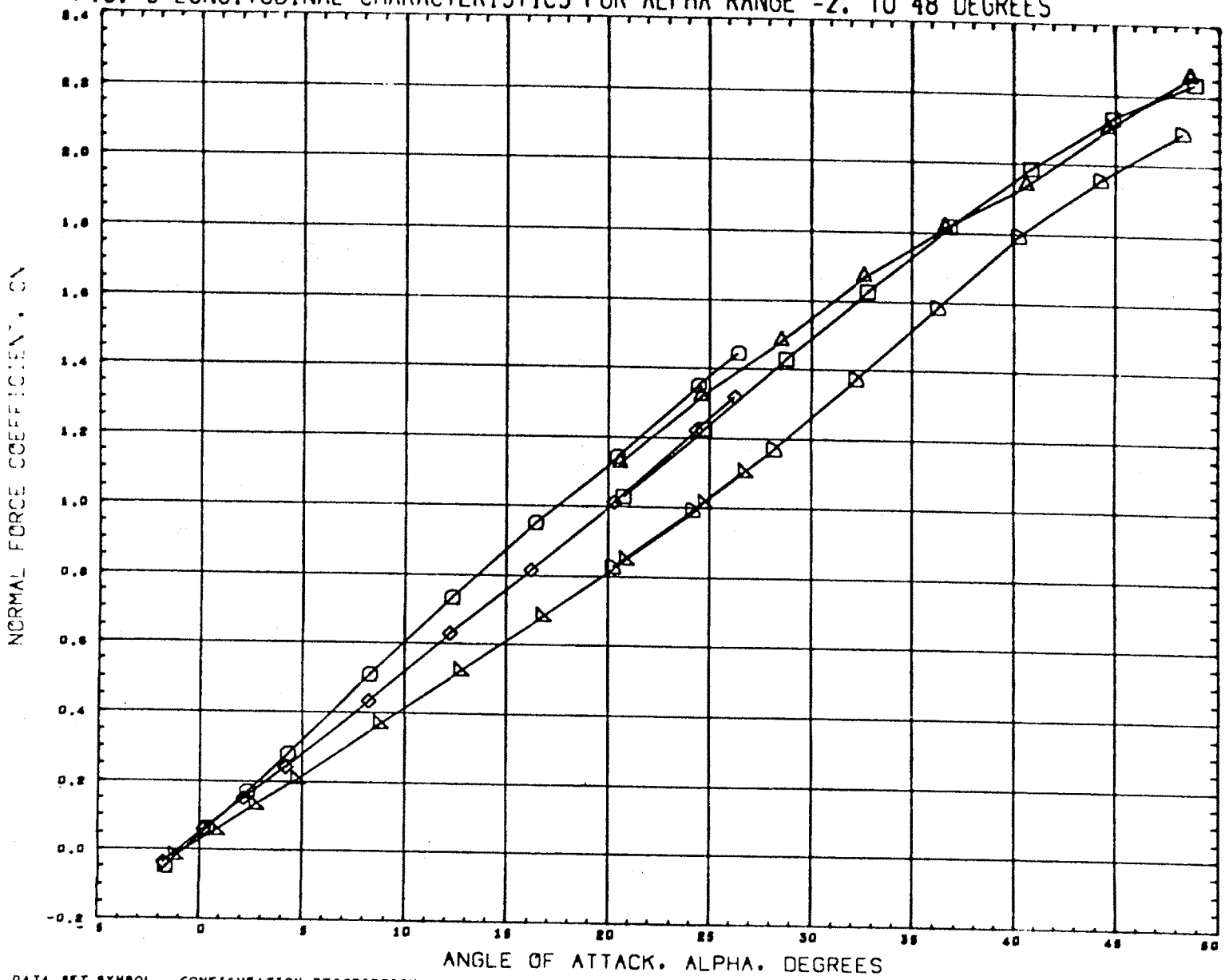
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(VBA250)	○	AMES 66-563 B22C0W19V10R2
(VBA340)	△	AMES 66-563 B22C0W19R3
(WBA250)	◇	AMES 66-563 B22C0W19V10R2
(WBA340)	□	AMES 66-563 B22C0W19R3

MACH	IC	ELEVTR
0.611	0.000	0.000
0.613	0.000	0.000
0.912	0.000	0.000
0.918	0.000	0.000

BETA 0.000

REFERENCE INFORMATION		
SREF	70.1350	SQ.IN.
LREF	8.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 3 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(XBAZ50)		AMES 66-563 BZZC8W19V10R2
(XBA340)		AMES 66-563 BZZC8W19R3
(YBAZ50)		AMES 66-563 BZZC8W19V10R2
(YBA340)		AMES 66-563 BZZC8W19R3
(ZBAZ50)		AMES 66-563 BZZC8W19V10R2
(ZBA340)		AMES 66-563 BZZC8W19R3

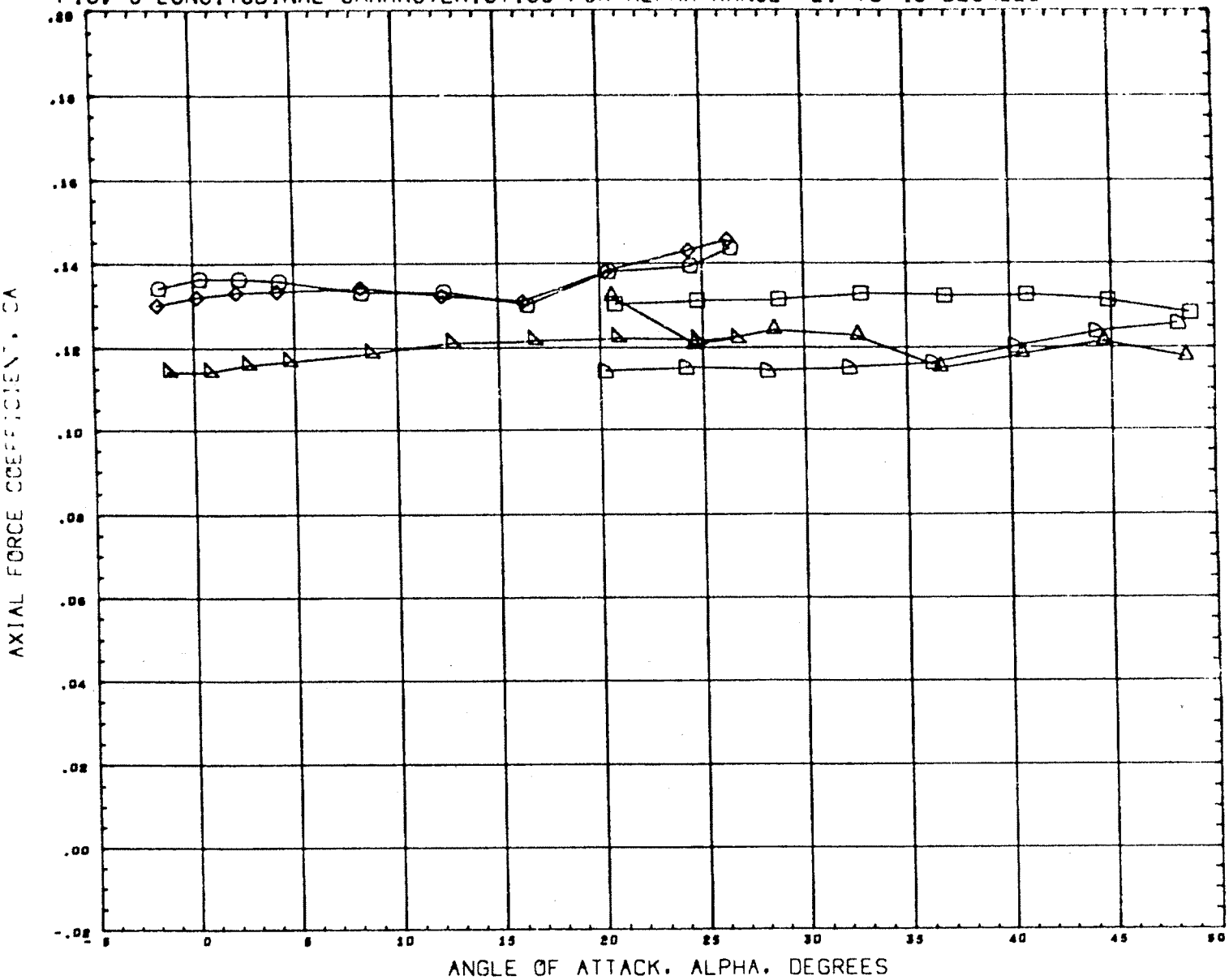
BETA 0.000

MACH	IC	ELEVTR
1.204	0.000	0.000
1.205	0.000	0.000
1.497	0.000	0.000
1.501	0.000	0.000
2.004	0.000	0.000
2.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XHRP	15.8500	IN.
YHRP	0.0000	IN.
ZHRP	1.8160	IN.
SCALE	0.0076	

FIG. 3 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(XBAZ50)	○	AMES 66-563 B22C8W19V10R2
(XBA340)	△	AMES 66-563 B22C8W19R3
(YBAZ50)	◇	AMES 66-563 B22C8W19V10R2
(YBA340)	⊡	AMES 66-563 B22C8W19R3
(ZBAZ50)	⊿	AMES 66-563 B22C8W19V10R2
(ZBA340)	▱	AMES 66-563 B22C8W19R3

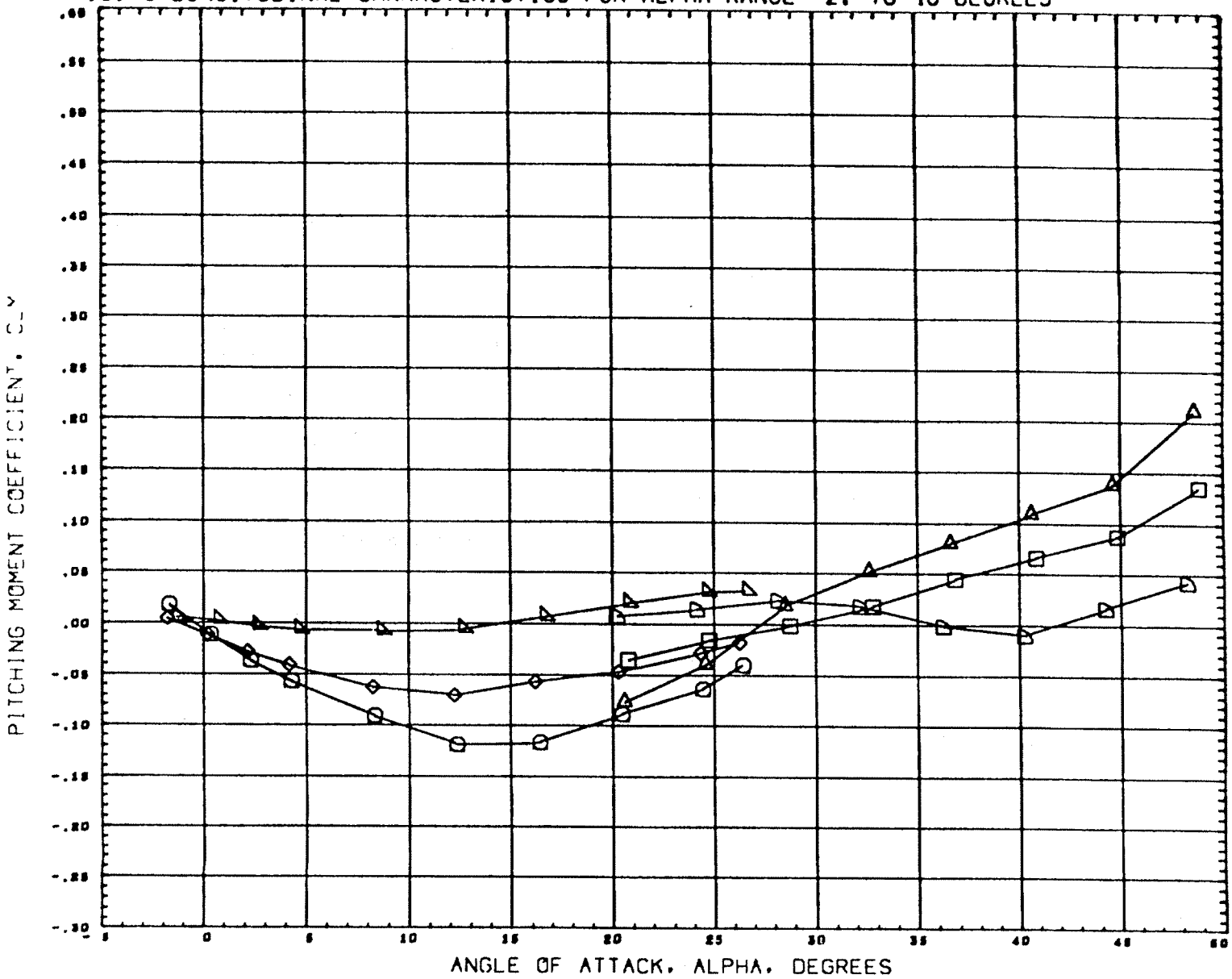
BETA 0.000

MACH	IC	ELEVTR
1.204	0.000	0.000
1.205	0.000	0.000
1.497	0.000	0.000
1.501	0.000	0.000
2.004	0.000	0.000
2.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 3 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(XBA250)	○	AMES 66-563 BZZC8W19V10R2
(XBA340)	△	AMES 66-563 BZZC8W19R3
(YBA250)	◇	AMES 66-563 BZZC8W19V10R2
(YBA340)	□	AMES 66-563 BZZC8W19R3
(ZBA250)	⊿	AMES 66-563 BZZC8W19V10R2
(ZBA340)	▷	AMES 66-563 BZZC8W19R3

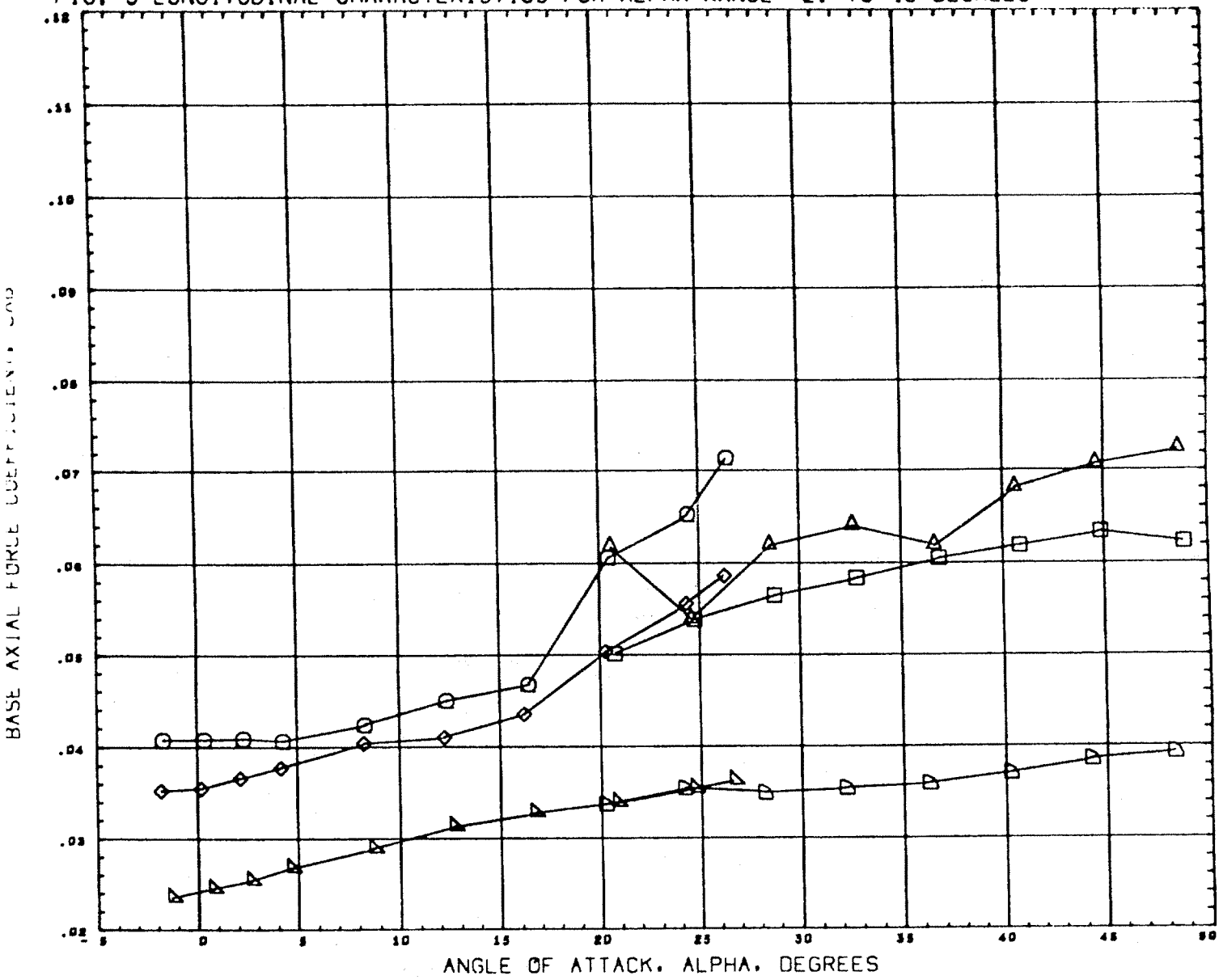
BETA 0.000

MACH	IC	ELEVTR
1.204	0.000	0.000
1.205	0.000	0.000
1.497	0.000	0.000
1.501	0.000	0.000
2.004	0.000	0.000
2.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 3 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(XBA250)	○	AMES 66-563 BZ2C8W19V10R2
(XBA340)	⊠	AMES 66-563 BZ2C8W19R3
(YBA250)	◇	AMES 66-563 BZ2C8W19V10R2
(YBA340)	⊡	AMES 66-563 BZ2C8W19R3
(ZBA250)	◺	AMES 66-563 BZ2C8W19V10R2
(ZBA340)	▱	AMES 66-563 BZ2C8W19R3

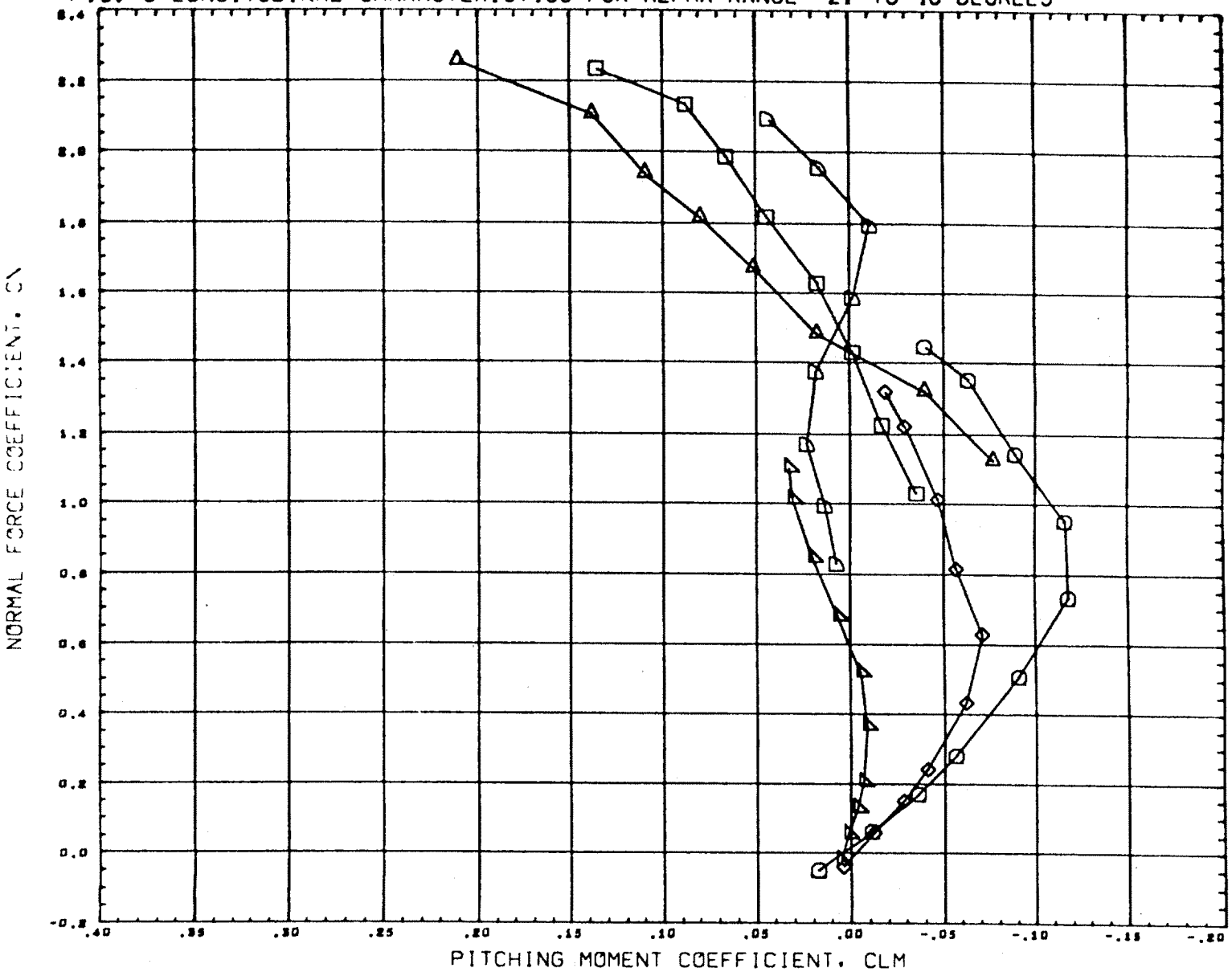
BETA 0.000

MACH	IC	ELEVTR
1.204	0.000	0.000
1.205	0.000	0.000
1.497	0.000	0.000
1.501	0.000	0.000
2.004	0.000	0.000
2.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 3 LONGITUDINAL CHARACTERISTICS FOR ALPHA RANGE -2. TO 48 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(XBA250)	○	AMES 66-563 B22C8W19V10R2
(XBA340)	△	AMES 66-563 B22C8W19R3
(YBA250)	◇	AMES 66-563 B22C8W19V10R2
(YBA340)	□	AMES 66-563 B22C8W19R3
(ZBA250)	◺	AMES 66-563 B22C8W19V10R2
(ZBA340)	◸	AMES 66-563 B22C8W19R3

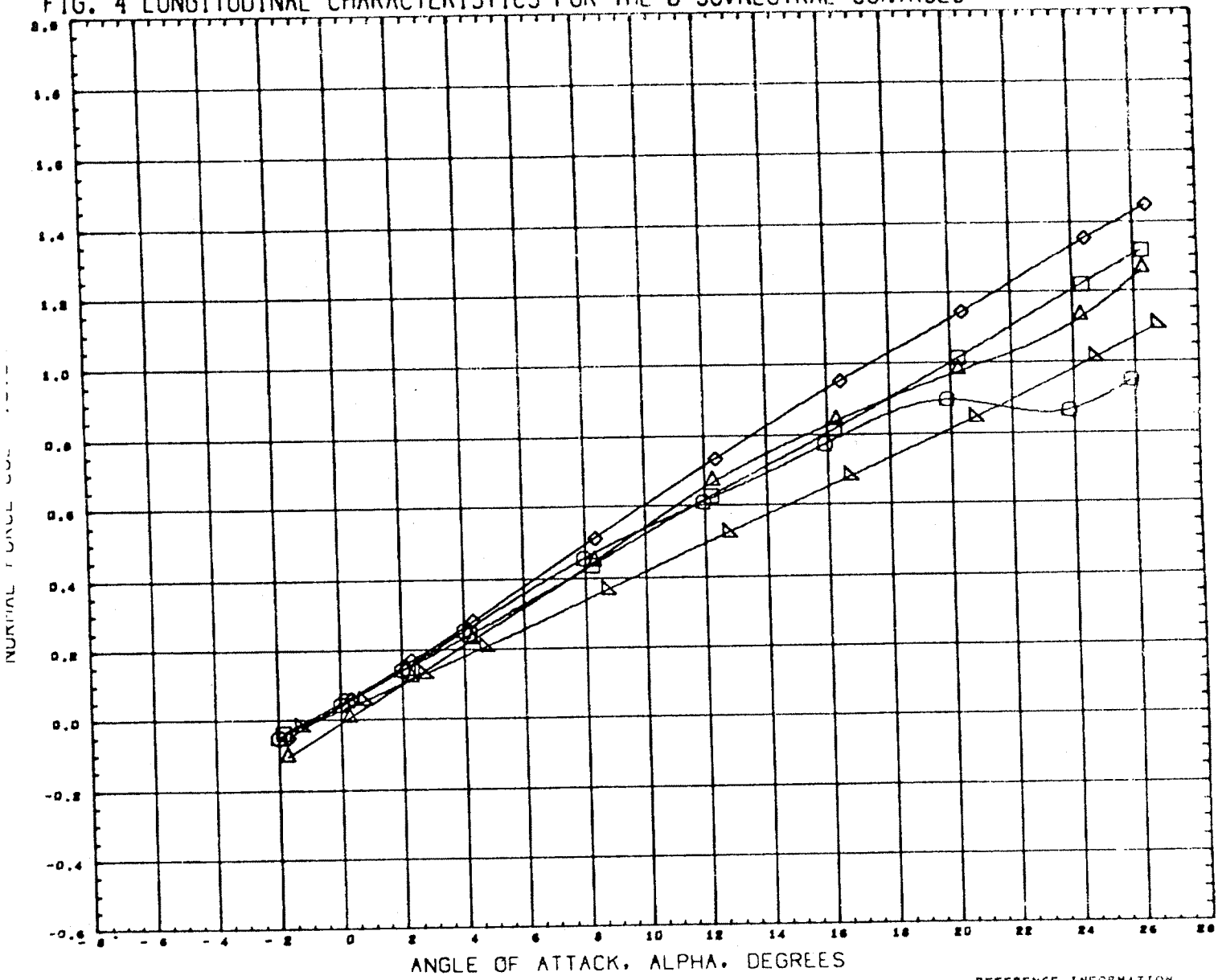
BETA 0.000

MACH	IC	ELEVTR
1.204	0.000	0.000
1.205	0.000	0.000
1.497	0.000	0.000
1.501	0.000	0.000
2.004	0.000	0.000
2.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U.NEUTRAL CONTROLS



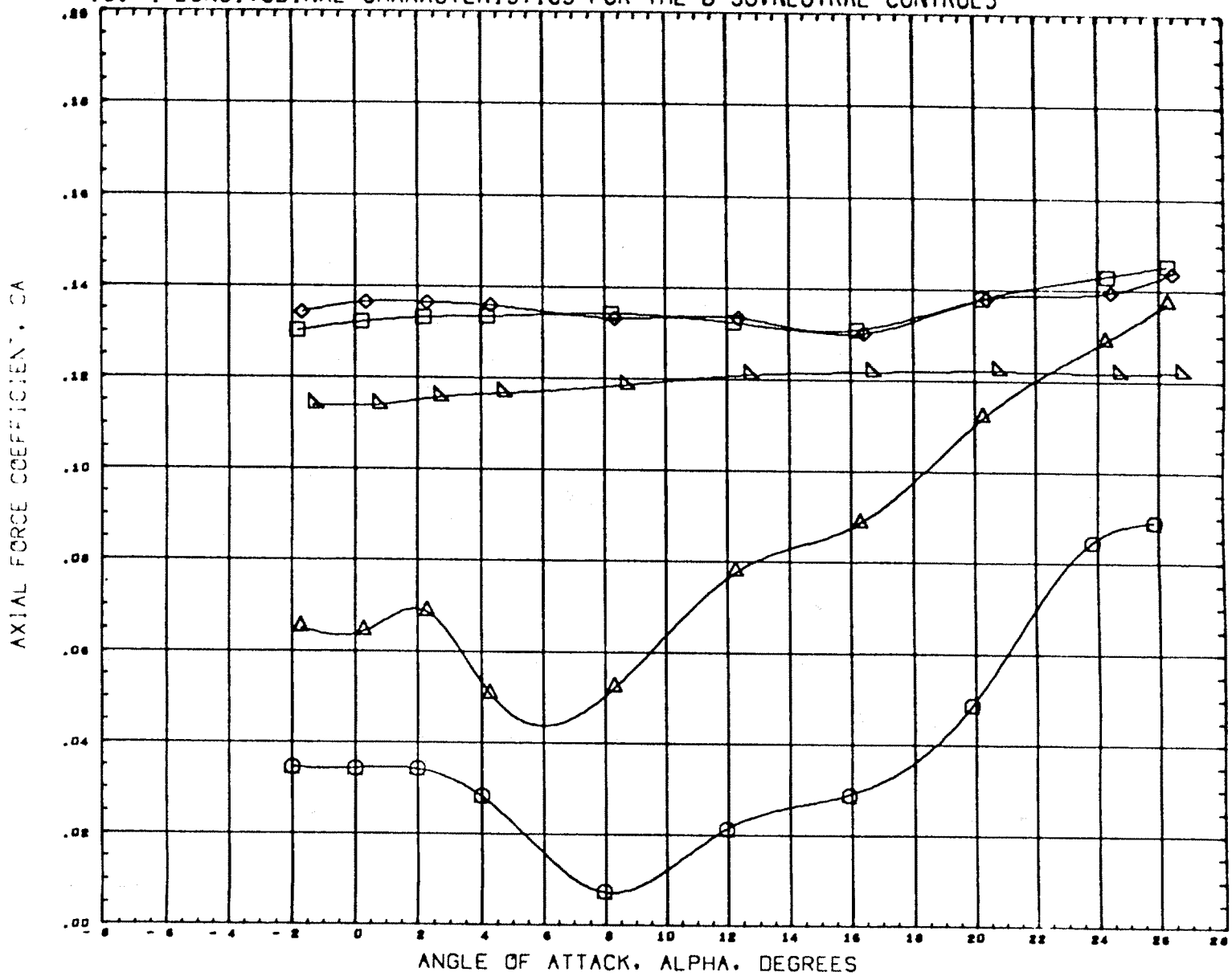
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.611	BETA	0.000	IC	0.000
△	0.912	ELEVTR	0.000	AILRON	0.000
◇	1.204	RUDDER	0.000		
□	1.497				
◺	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U.NEUTRAL CONTROLS



SYMBOL	MACH
○	0.611
△	0.912
◇	1.204
□	1.497
◺	2.004

PARAMETRIC VALUES

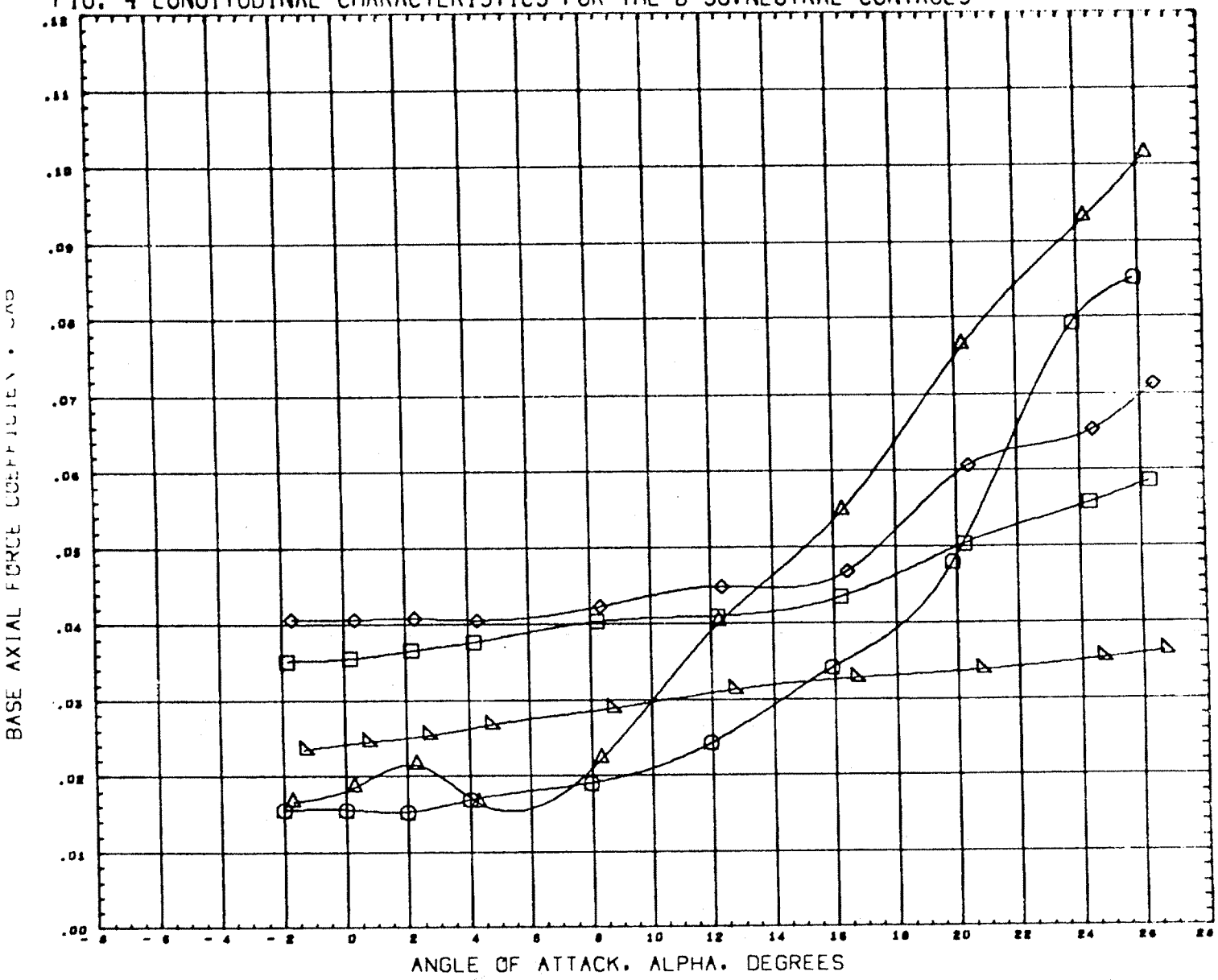
BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1850	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U.NEUTRAL CONTROLS



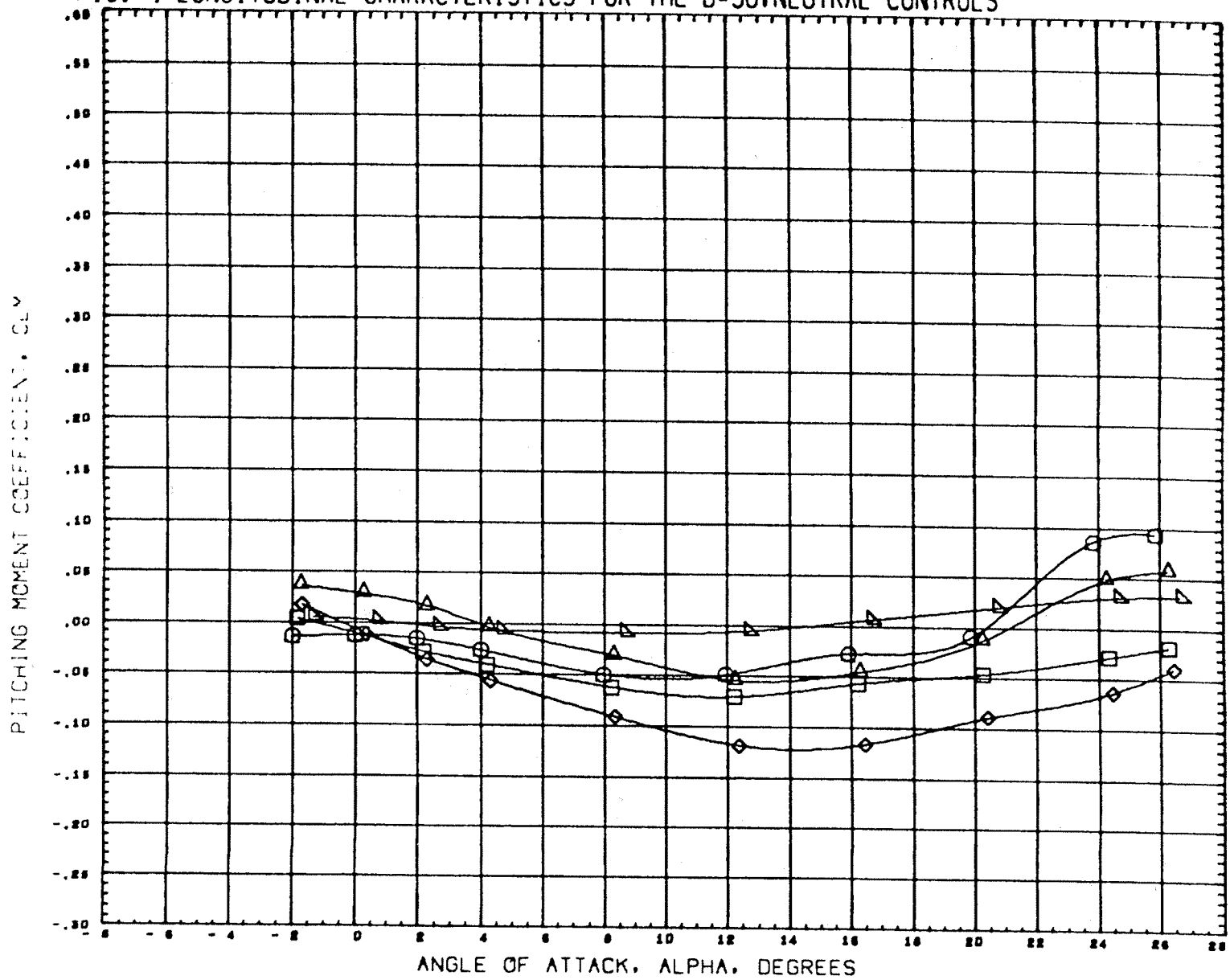
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.611	BETA	0.000	IC	0.000
△	0.912	ELEVTR	0.000	AILRON	0.000
◇	1.204	RUDDER	0.000		
□	1.497				
	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8150	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U, NEUTRAL CONTROLS



SYMBOL	MACH
○	0.611
△	0.912
◇	1.204
□	1.497
◪	2.004

PARAMETRIC VALUES

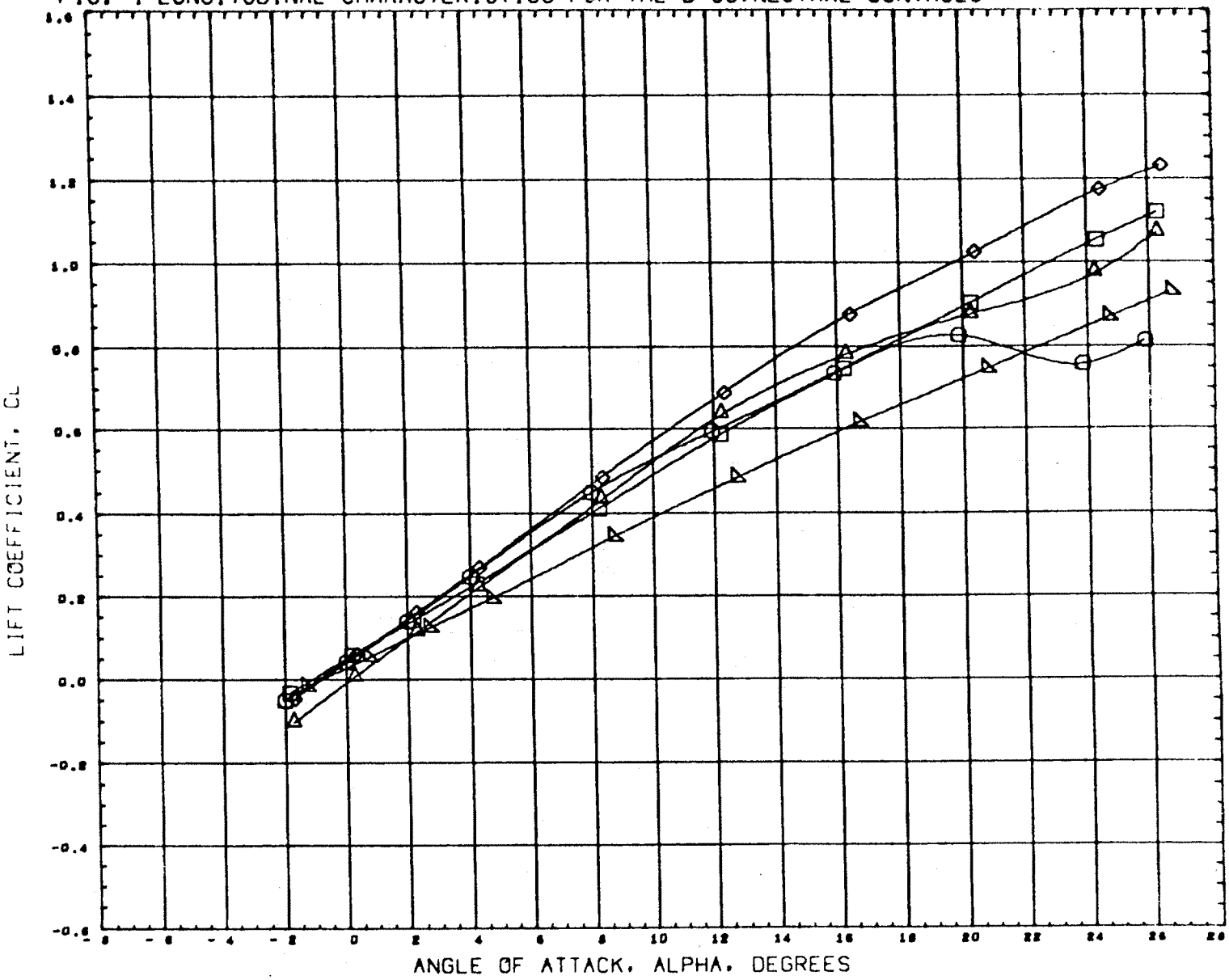
BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U, NEUTRAL CONTROLS

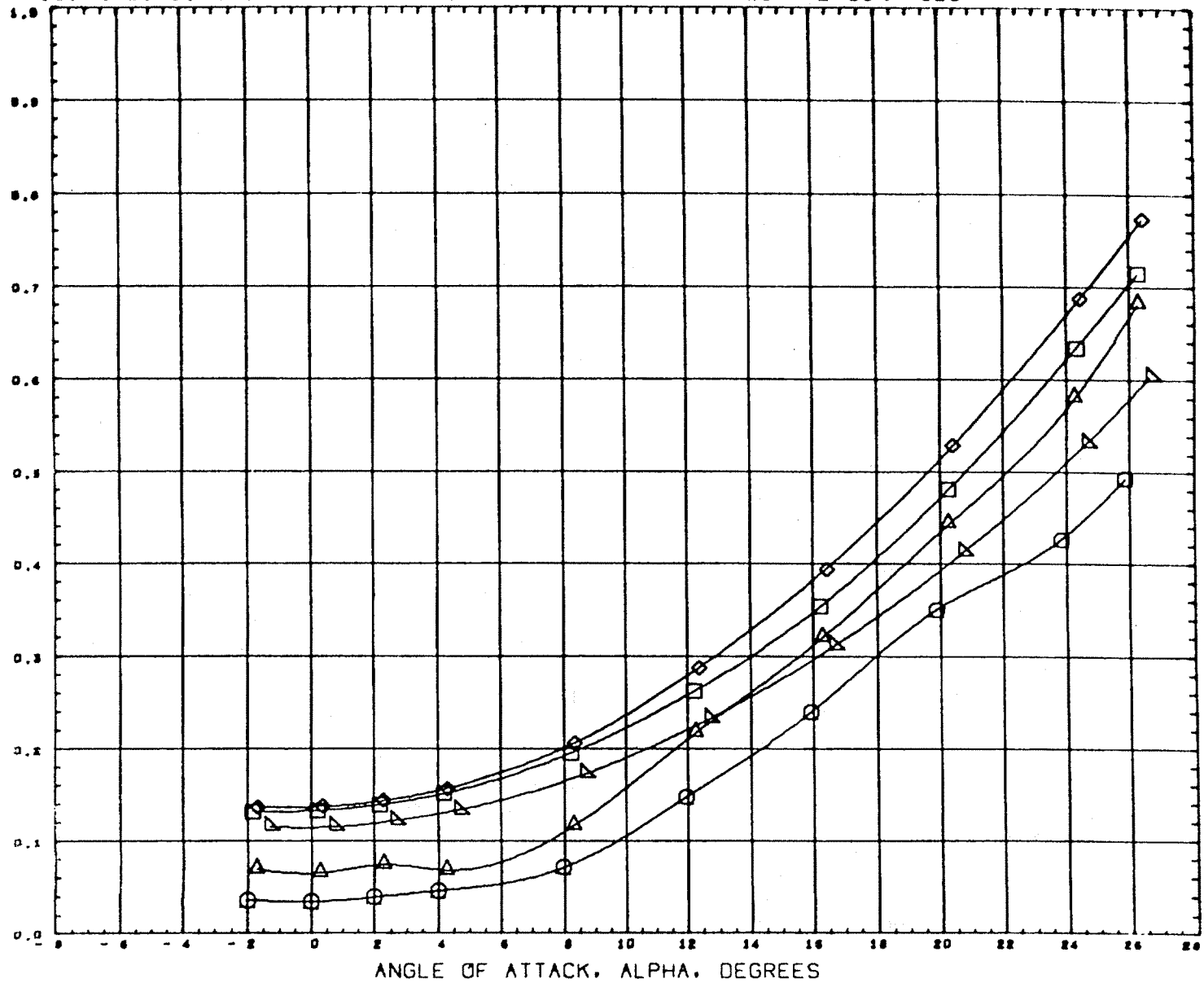


SYMBOL	MACH	PARAMETRIC VALUES			
○	0.611	BETA	0.000	IC	0.000
△	0.912	ELEVTR	0.000	AILRON	0.000
◇	1.204	RUDDER	0.000		
□	1.497				
◺	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U.NEUTRAL CONTROLS



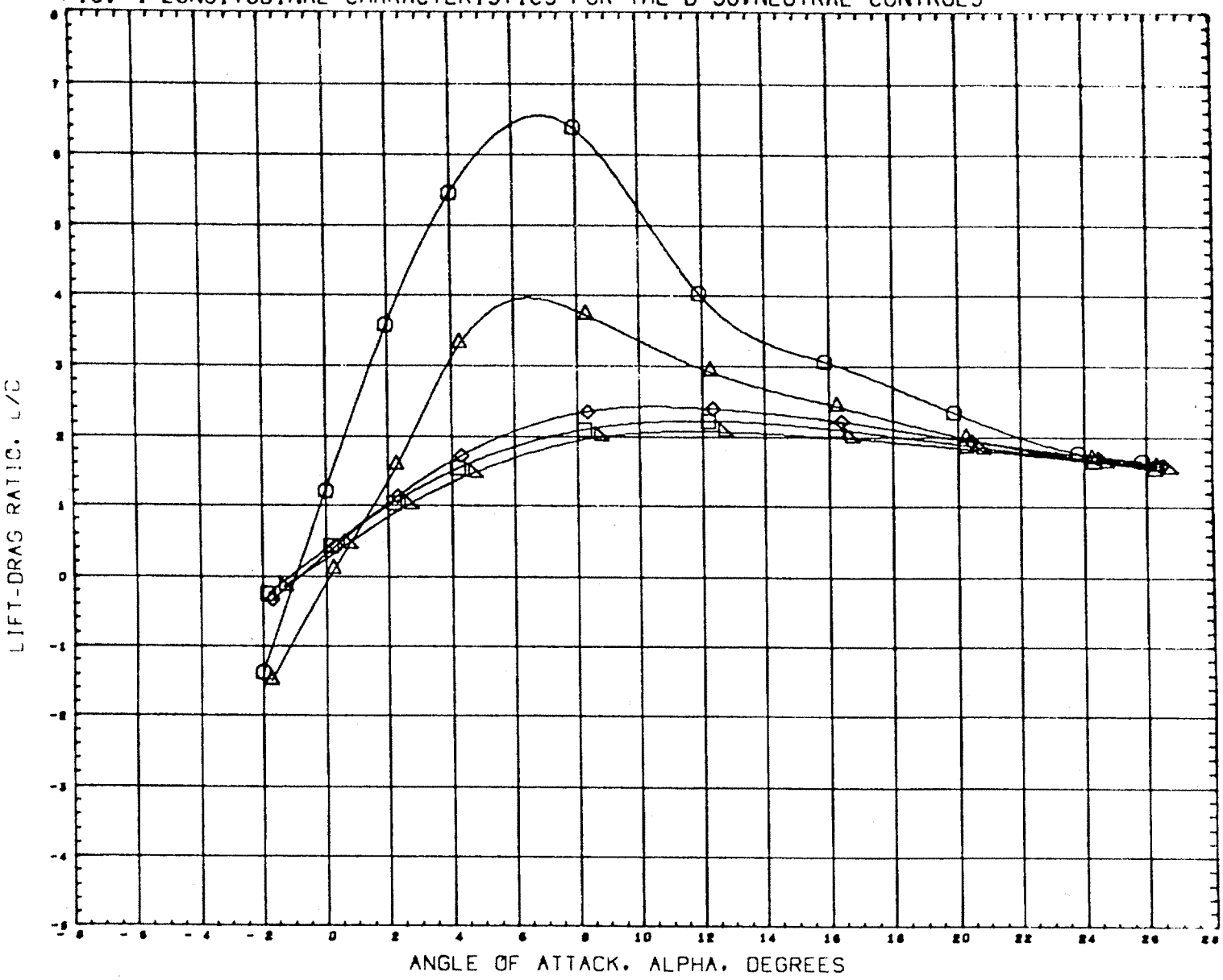
SYMBOL	MACH	PARAMETRIC VALUES			
	0.611	BETA	0.000	IC	0.000
	0.912	ELEVTR	0.000	AILRON	0.000
	1.204	RUDDER	0.000		
	1.497				
	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U, NEUTRAL CONTROLS



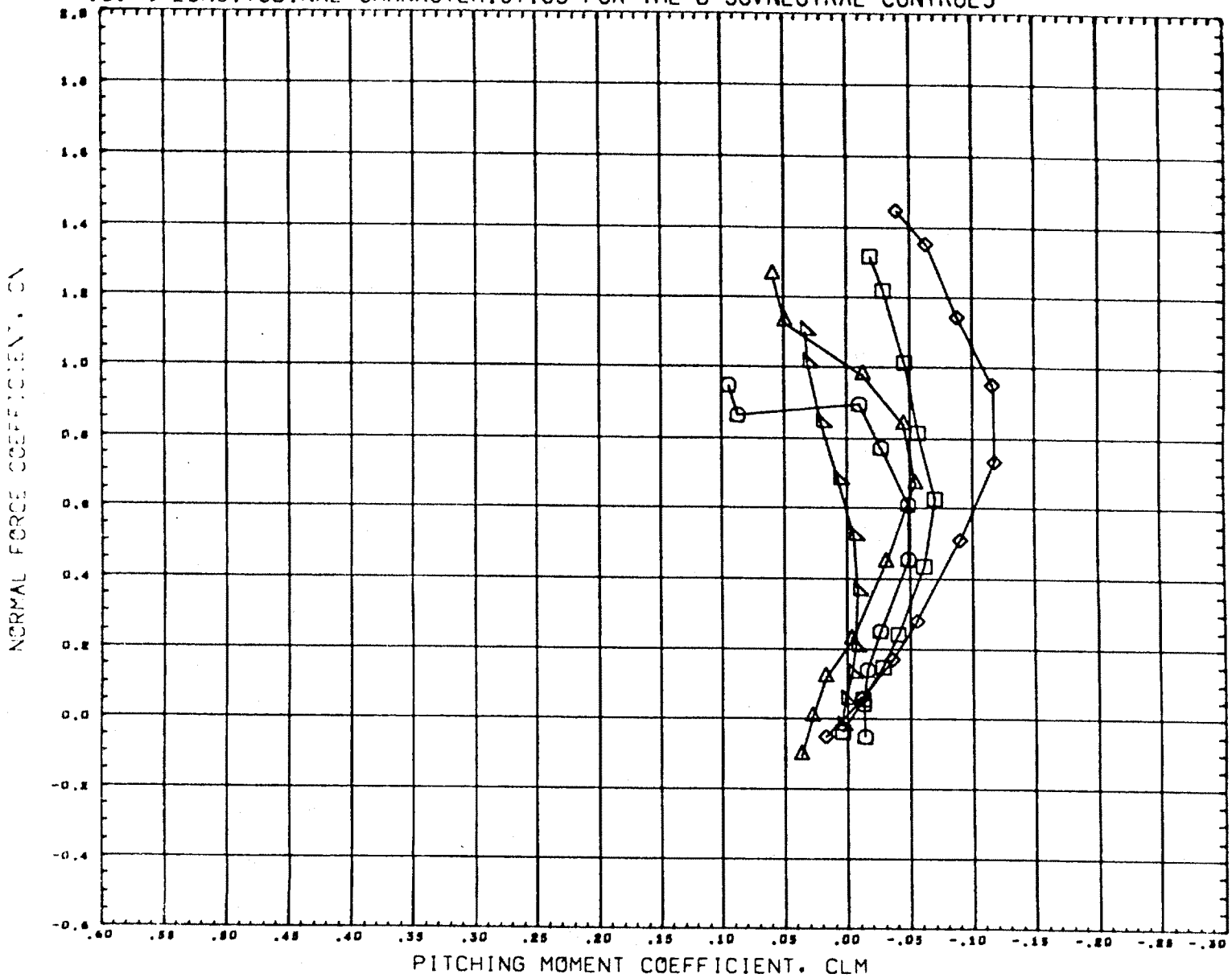
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.611	BETA	0.000	IC	0.000
△	0.912	ELEVTR	0.000	AILRON	0.000
◇	1.204	RUDDER	0.000		
□	1.497				
◺	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U.NEUTRAL CONTROLS



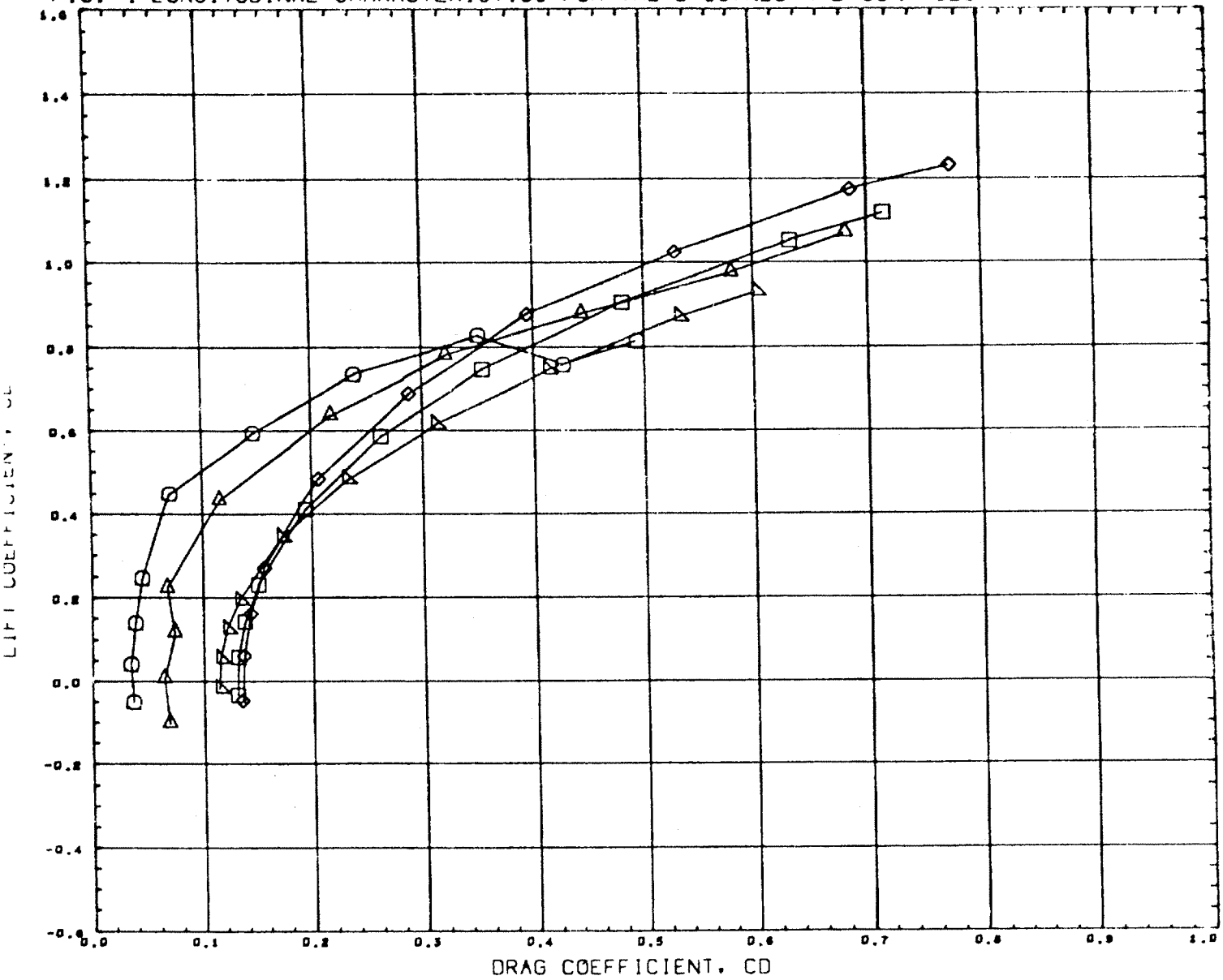
SYMBOL	MACH	PARAMETRIC VALUES			
	0.613	BETA	0.000	IC	0.000
	0.912	ELEVTR	0.000	AILRON	0.000
	1.204	RUDDER	0.000		
	1.497				
	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 4 LONGITUDINAL CHARACTERISTICS FOR THE B-9U, NEUTRAL CONTROLS



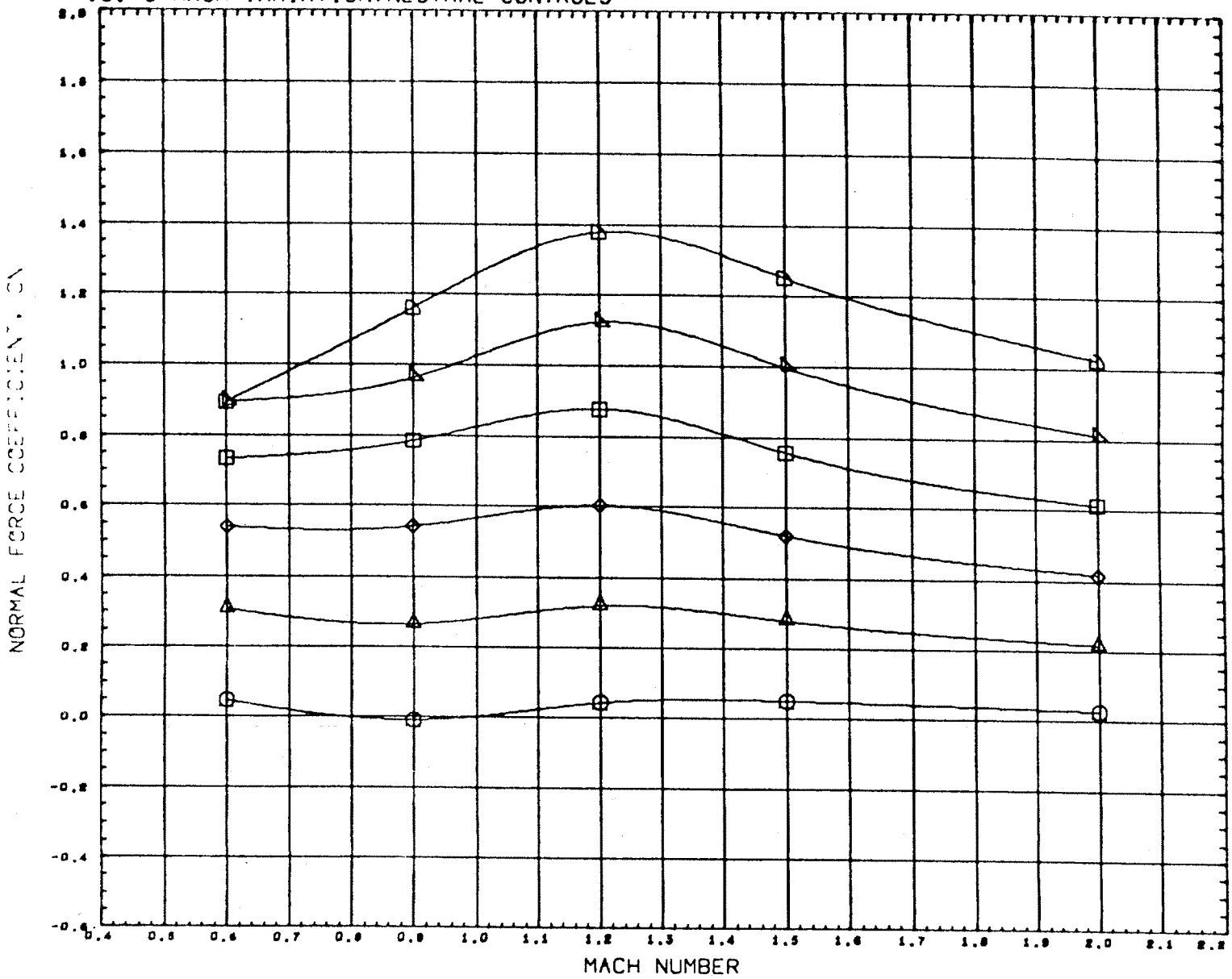
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.611	BETA	0.000	IC	0.000
△	0.912	ELEVTR	0.000	AILRON	0.000
◇	1.204	RUDDER	0.000		
□	1.497				
◺	2.004				

DATA HIST. CODE CC*E

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0960	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 5 MACH VARIATION, NEUTRAL CONTROLS

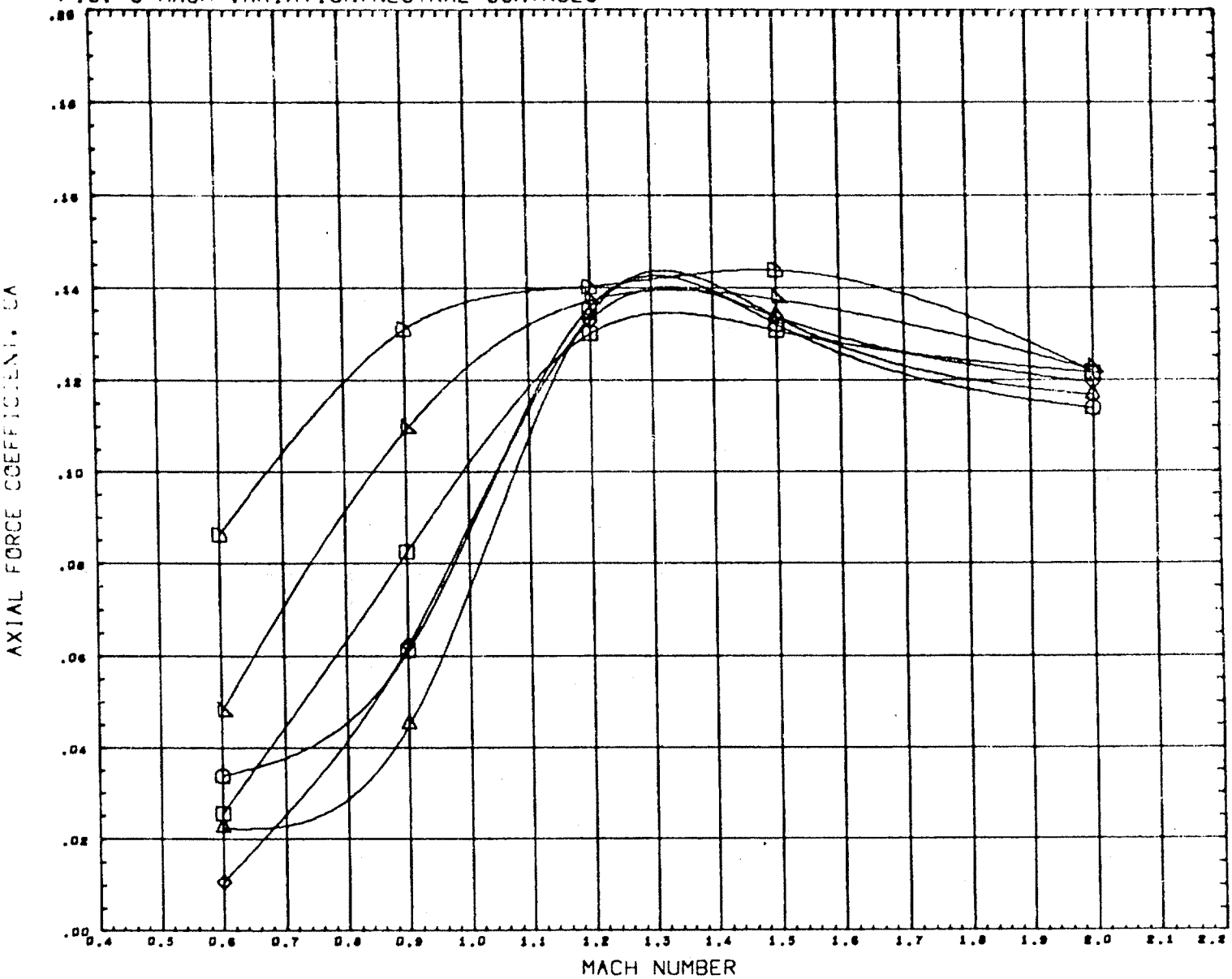


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	BETA	0.000	IC	0.000
△	5.000	ELEVTR	0.000	AILRON	0.000
◇	10.000	RUDDER	0.000		
□	15.000				
⊠	20.000				
○	25.000	DATA HIST. CODE	CC*E1		

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

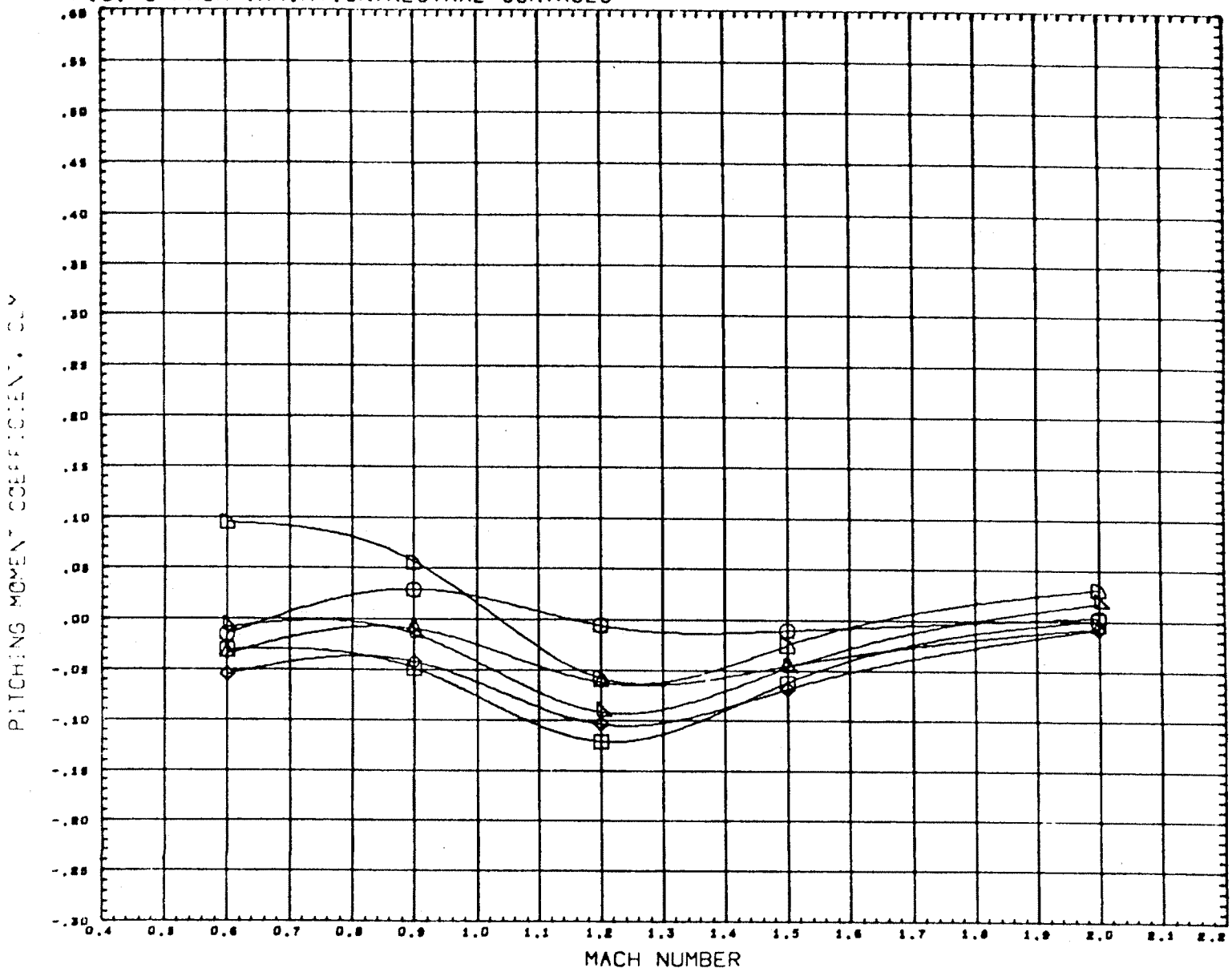
FIG. 5 MACH VARIATION, NEUTRAL CONTROLS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	BETA	0.000	IC	0.000
△	5.000	ELEVTR	0.000	AILRON	0.000
◇	10.000	RUDDER	0.000		
□	15.000				
◪	20.000				
D	25.000	DATA HIST. CODE	CC*EI		

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 5 MACH VARIATION.NEUTRAL CONTROLS

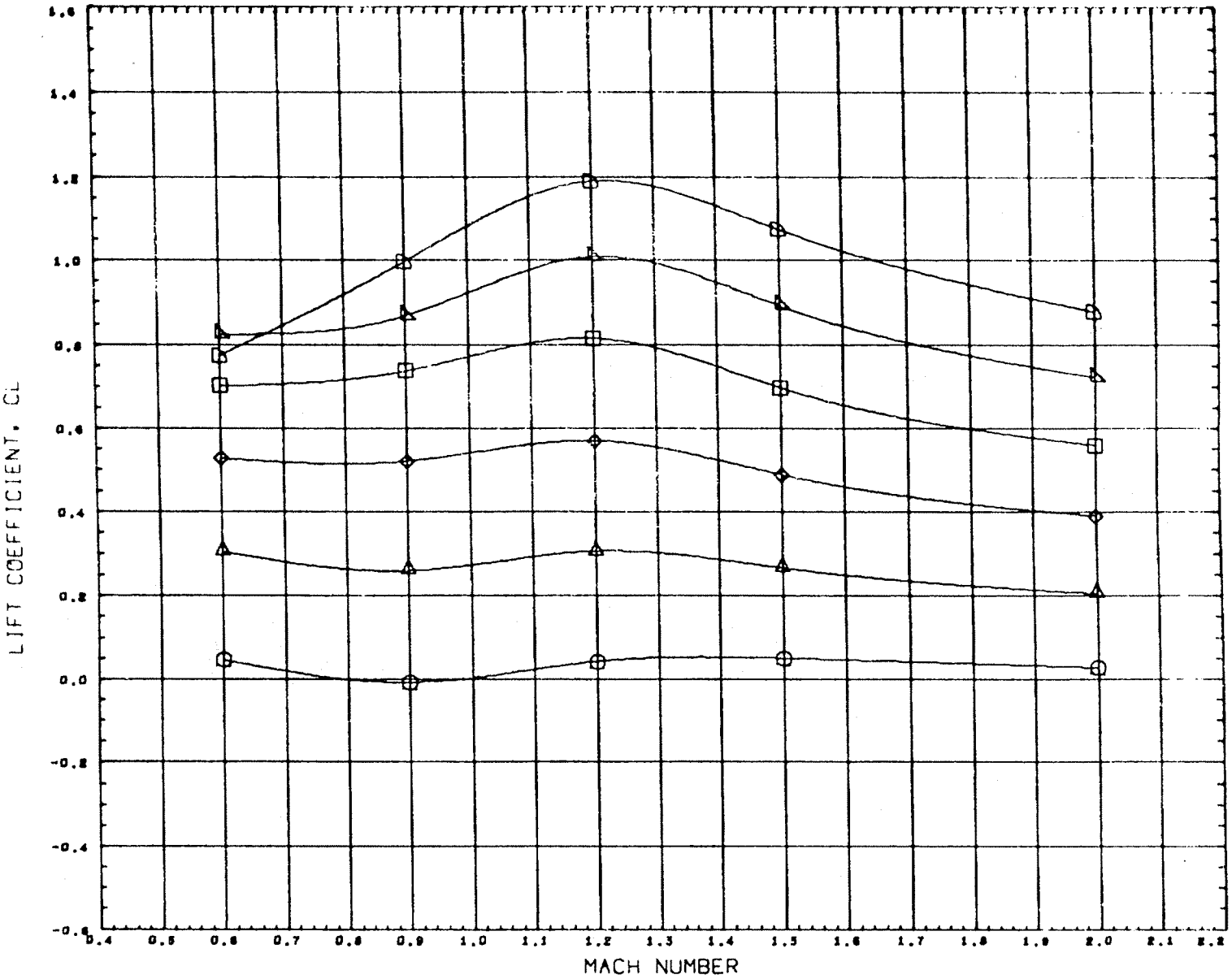


SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	BETA	0.000	IC	0.000
X	5.000	ELEVTR	0.000	AILRON	0.000
◇	10.000	RUDDER	0.000		
□	15.000				
▽	20.000				
△	25.000	DATA HIST. CODE	CC*E1		

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

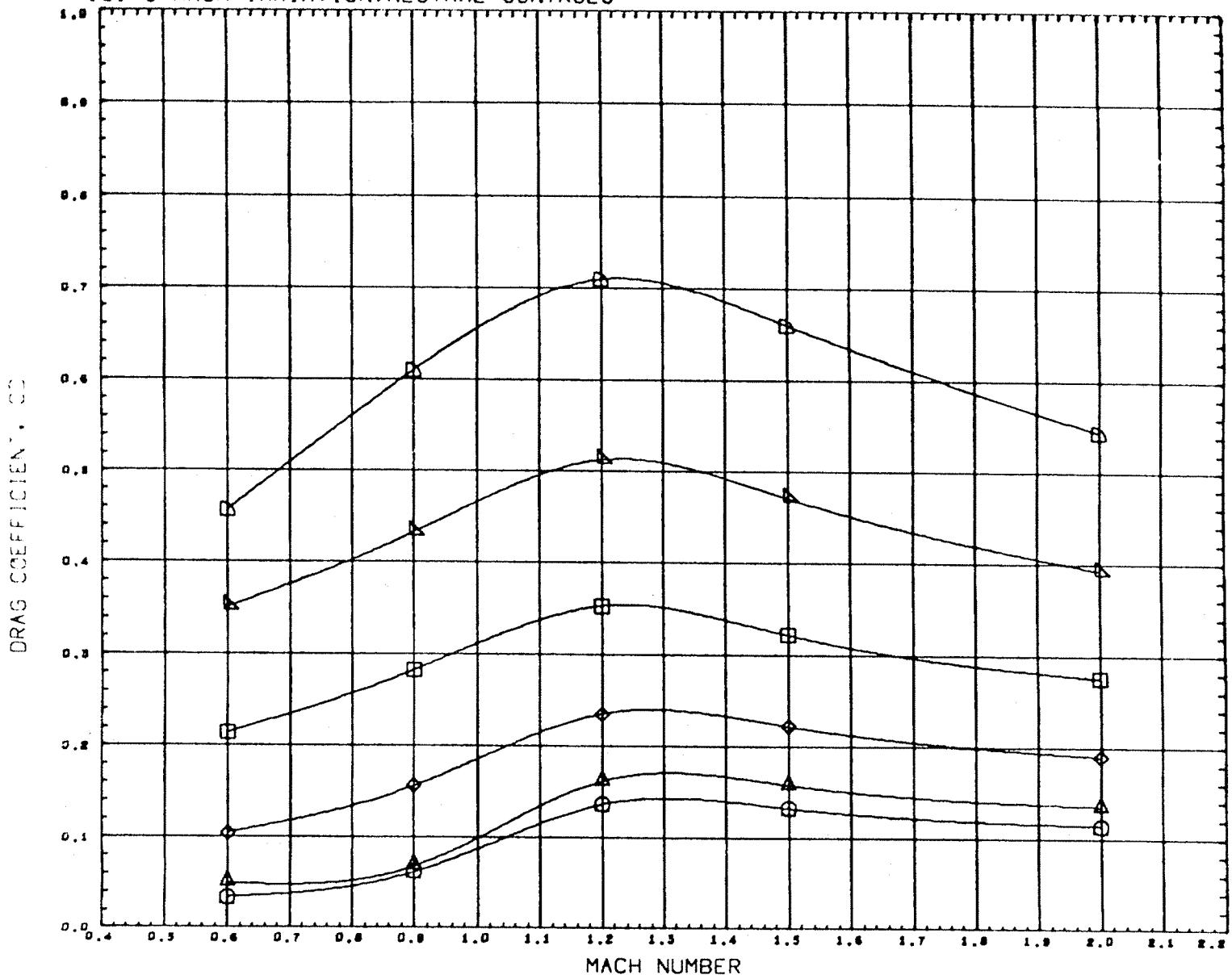
FIG. 5 MACH VARIATION, NEUTRAL CONTROLS



SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	BETA	0.000	IC	0.000
△	5.000	ELEVTR	0.000	AILRON	0.000
◇	10.000	RUDDER	0.000		
□	15.000				
◪	20.000				
D	25.000	DATA HIST. CODE	CC*EI		

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	11.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 5 MACH VARIATION, NEUTRAL CONTROLS

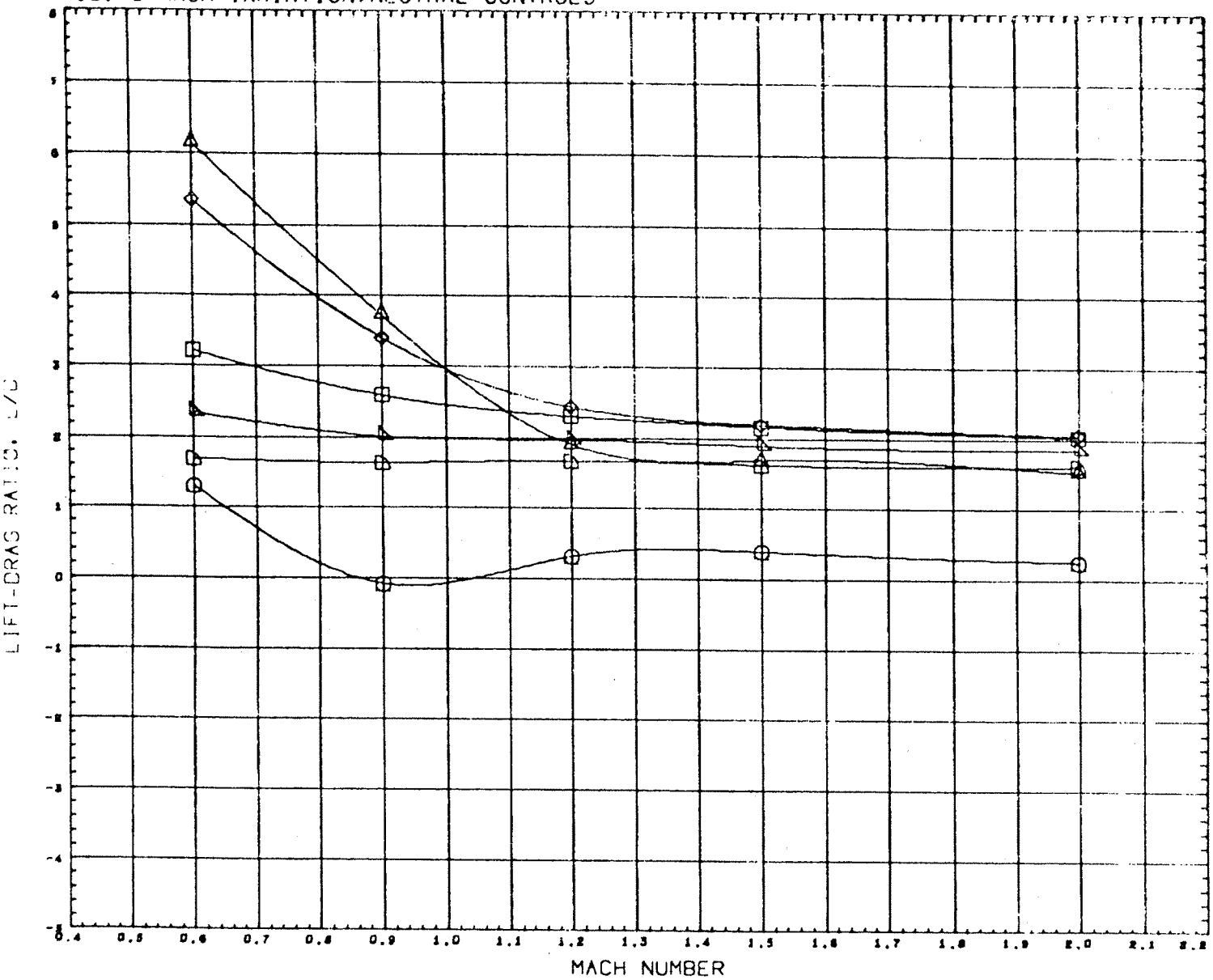


SYMBOL	ALPHA	PARAMETRIC VALUES			
	0.000	BETA	0.000	IC	0.000
	5.000	ELEVTR	0.000	AILRON	0.000
	10.000	RUDDER	0.000		
	15.000				
	20.000				
	25.000	DATA HIST. CODE	CC*EI		

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 5 MACH VARIATION, NEUTRAL CONTROLS



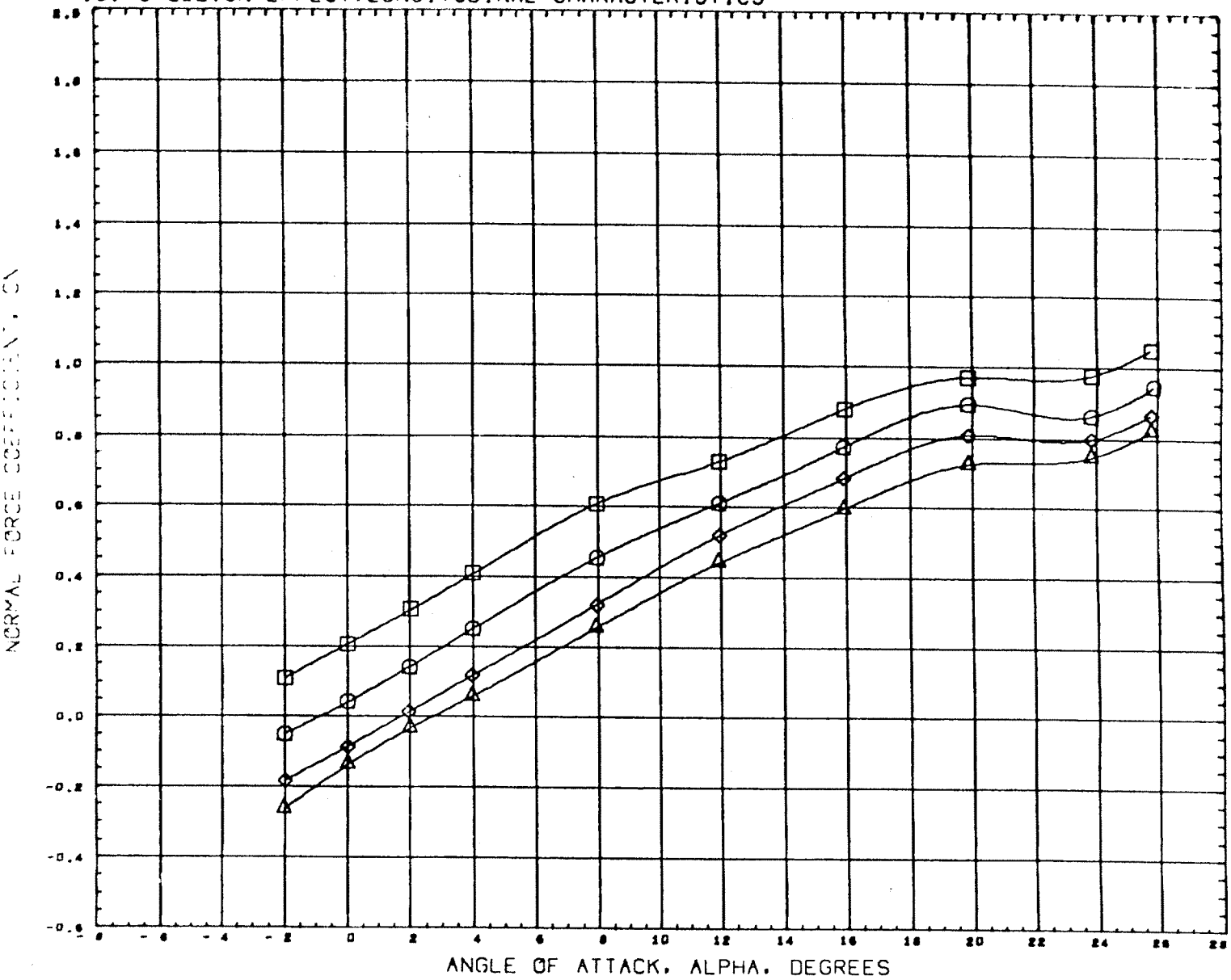
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	0.000	BETA	0.000	IC	0.000
△	5.000	ELEVTR	0.000	AILRON	0.000
◇	10.000	RUDDER	0.000		
□	15.000				
◁	20.000				
▷	25.000	DATA MIST. CODE	CC+E1		

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.2500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (EBA250) 07 MAY 72 PAGE 70

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

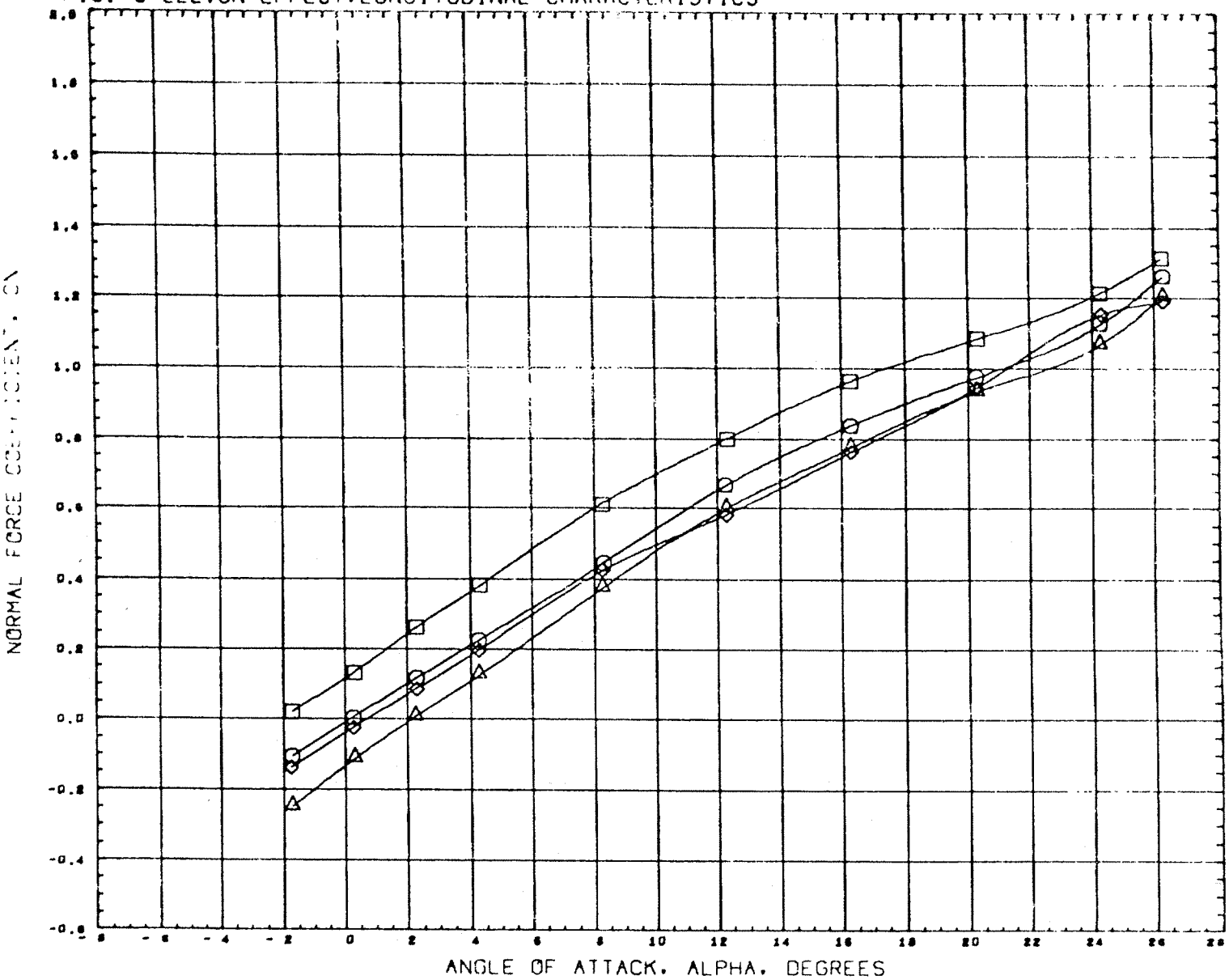
MACH 0.611

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT.LONGITUDINAL CHARACTERISTICS



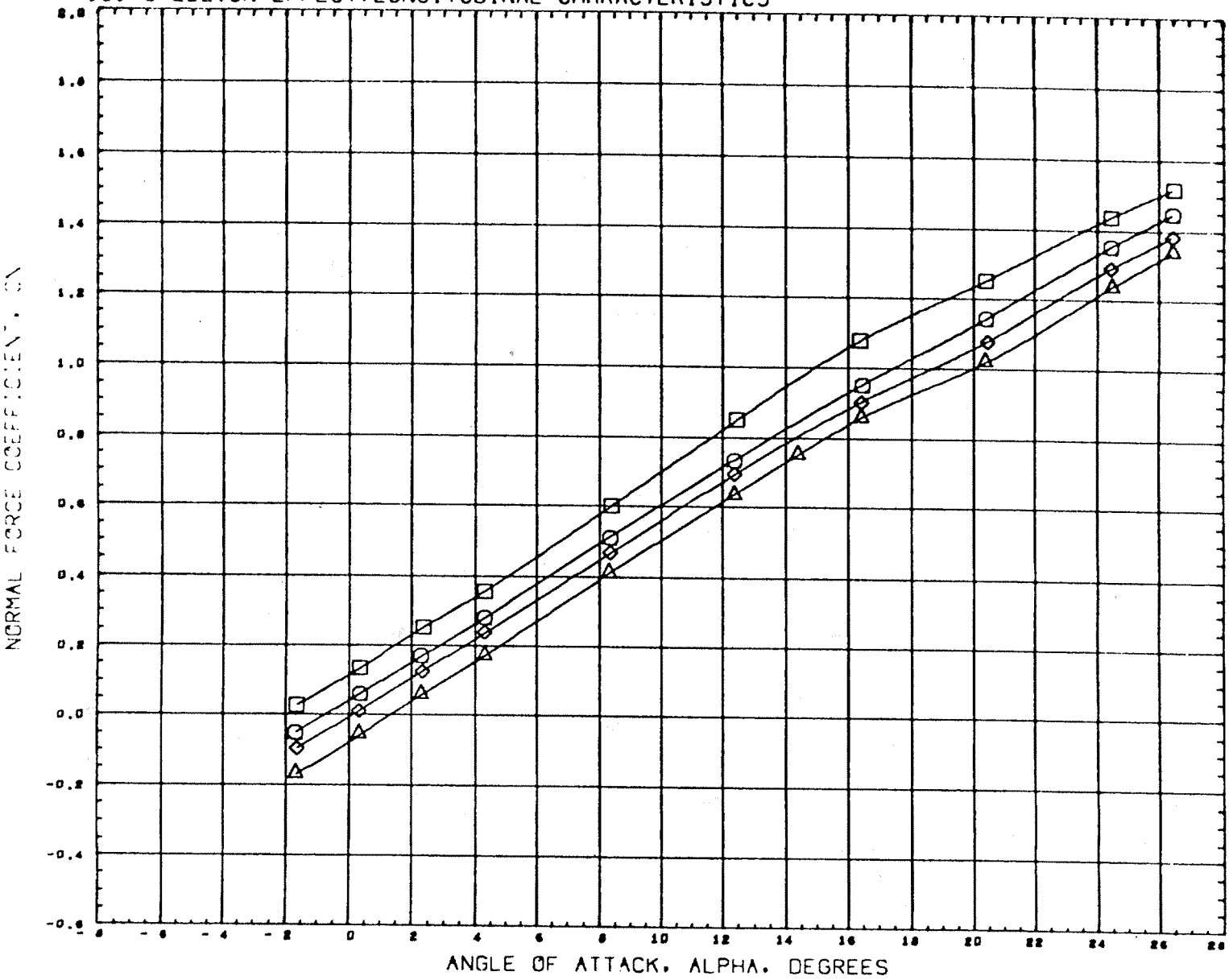
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA253)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

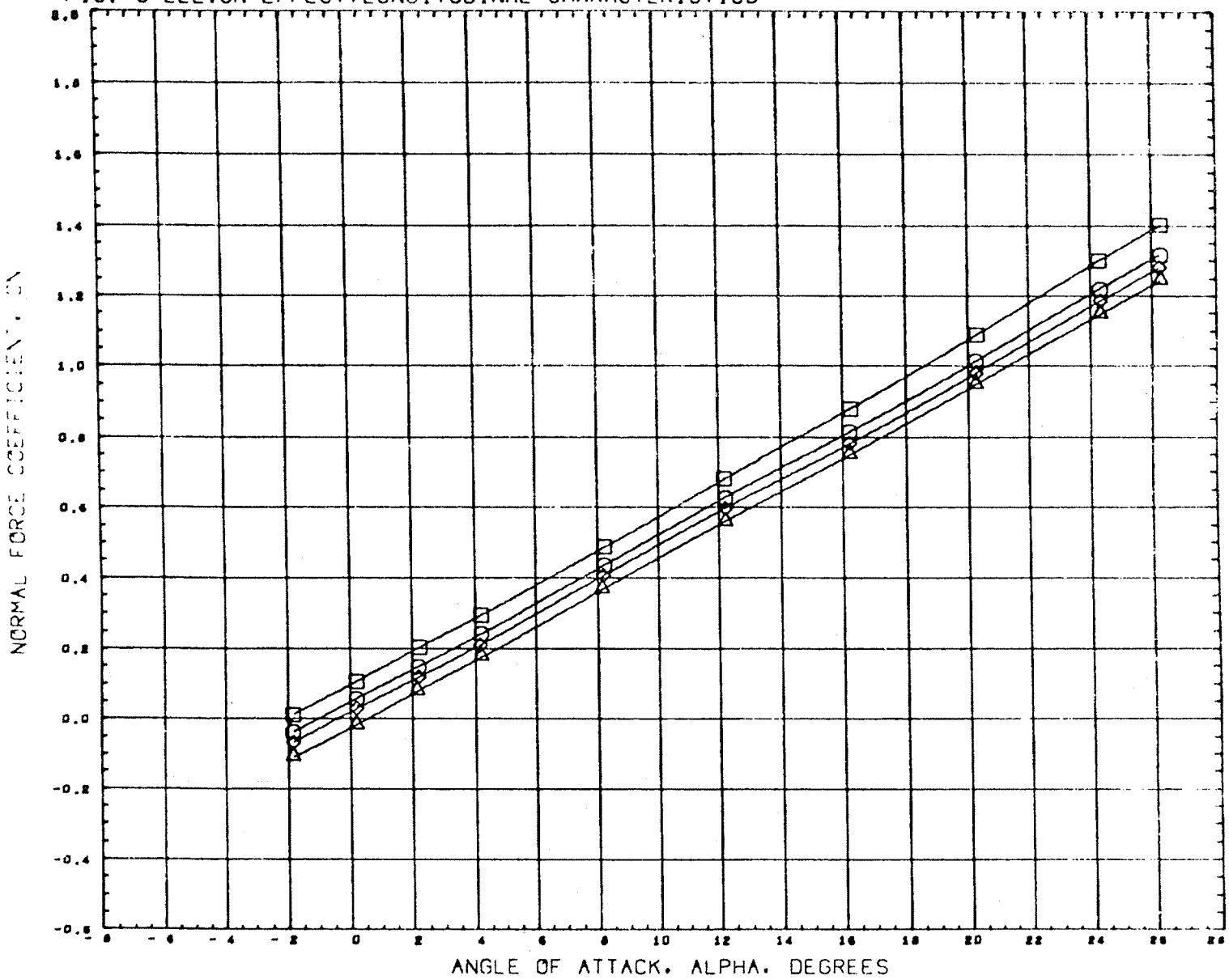
MACH 1.204

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS

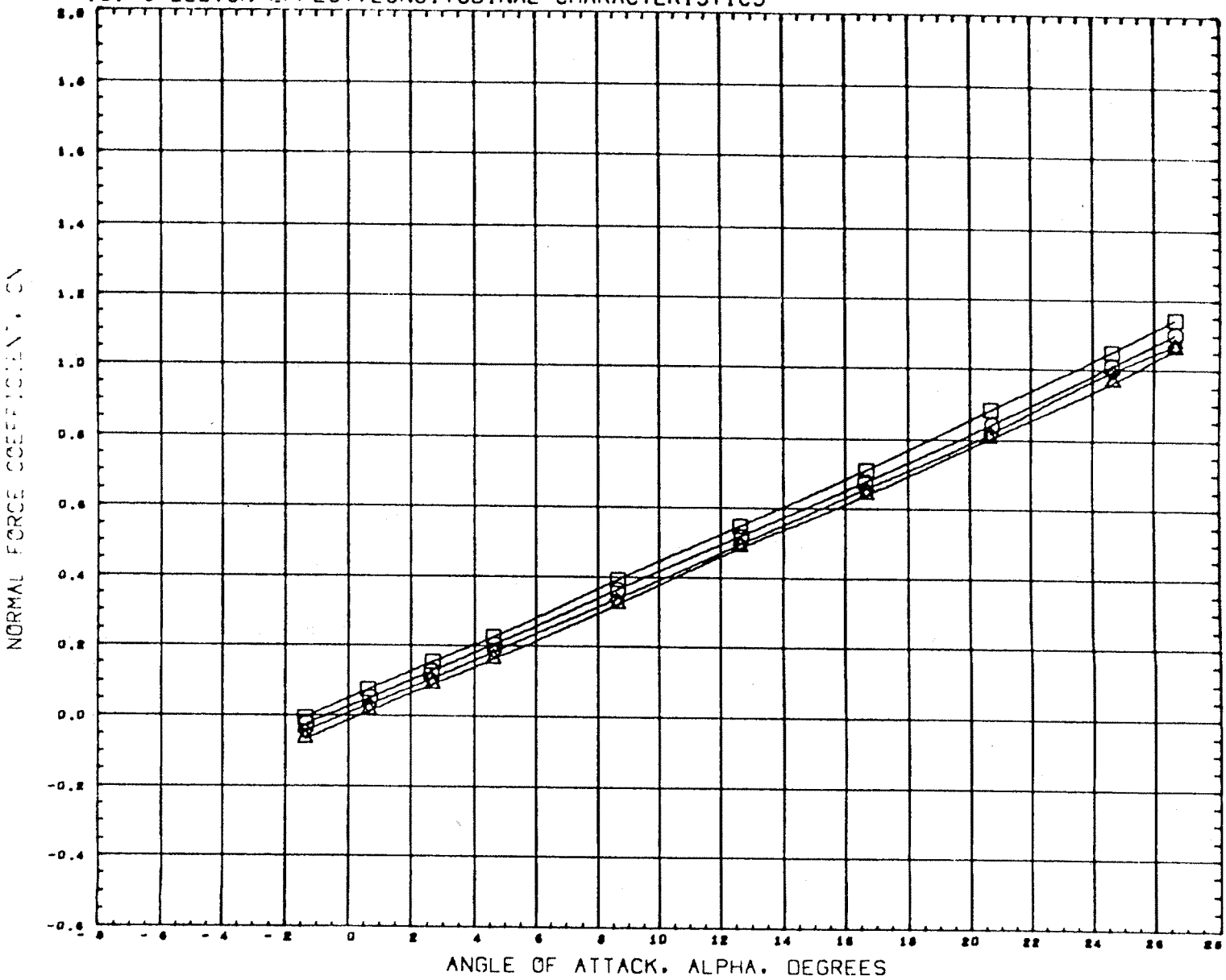


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8300	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



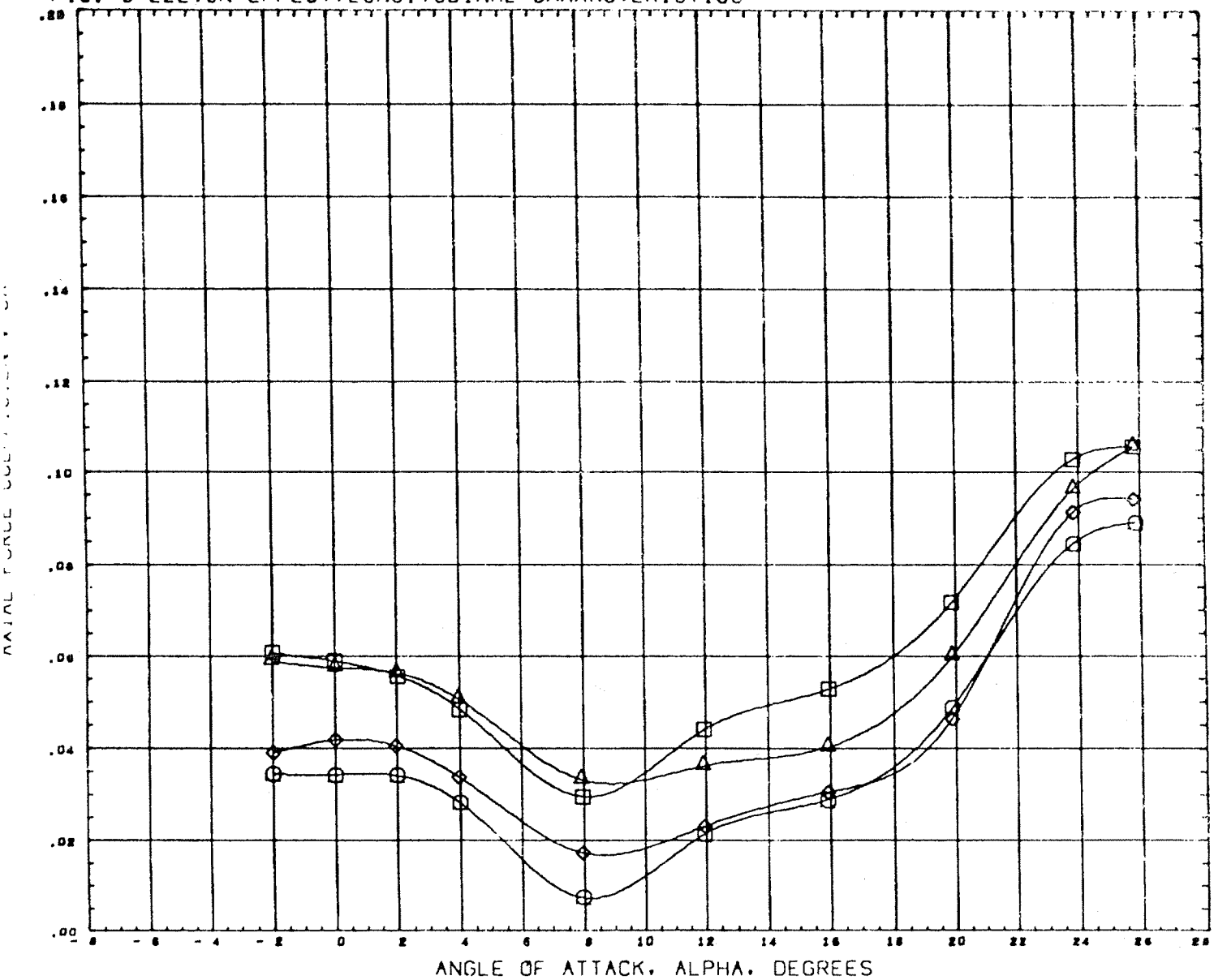
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



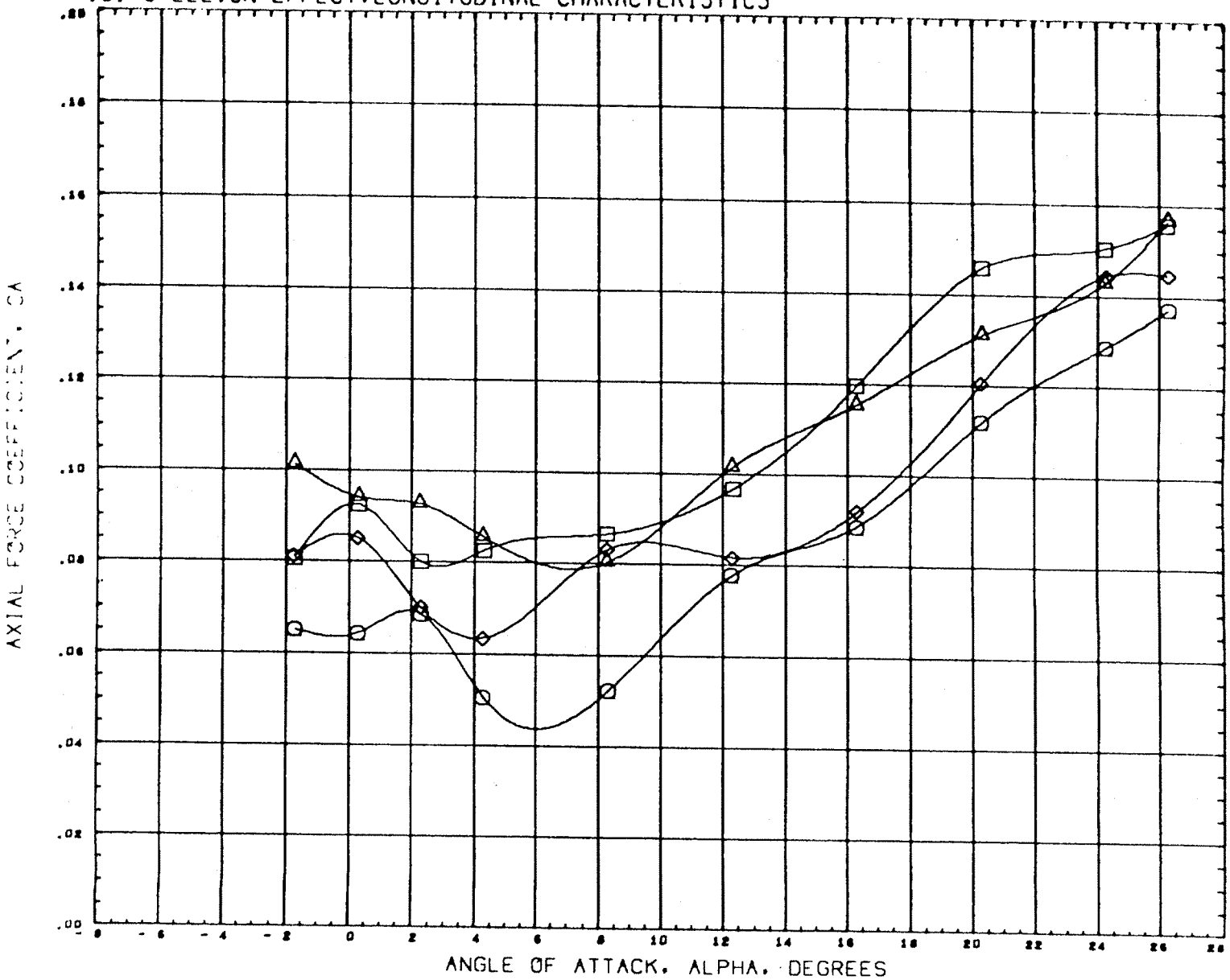
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA#50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA#53)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA#53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA#54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2

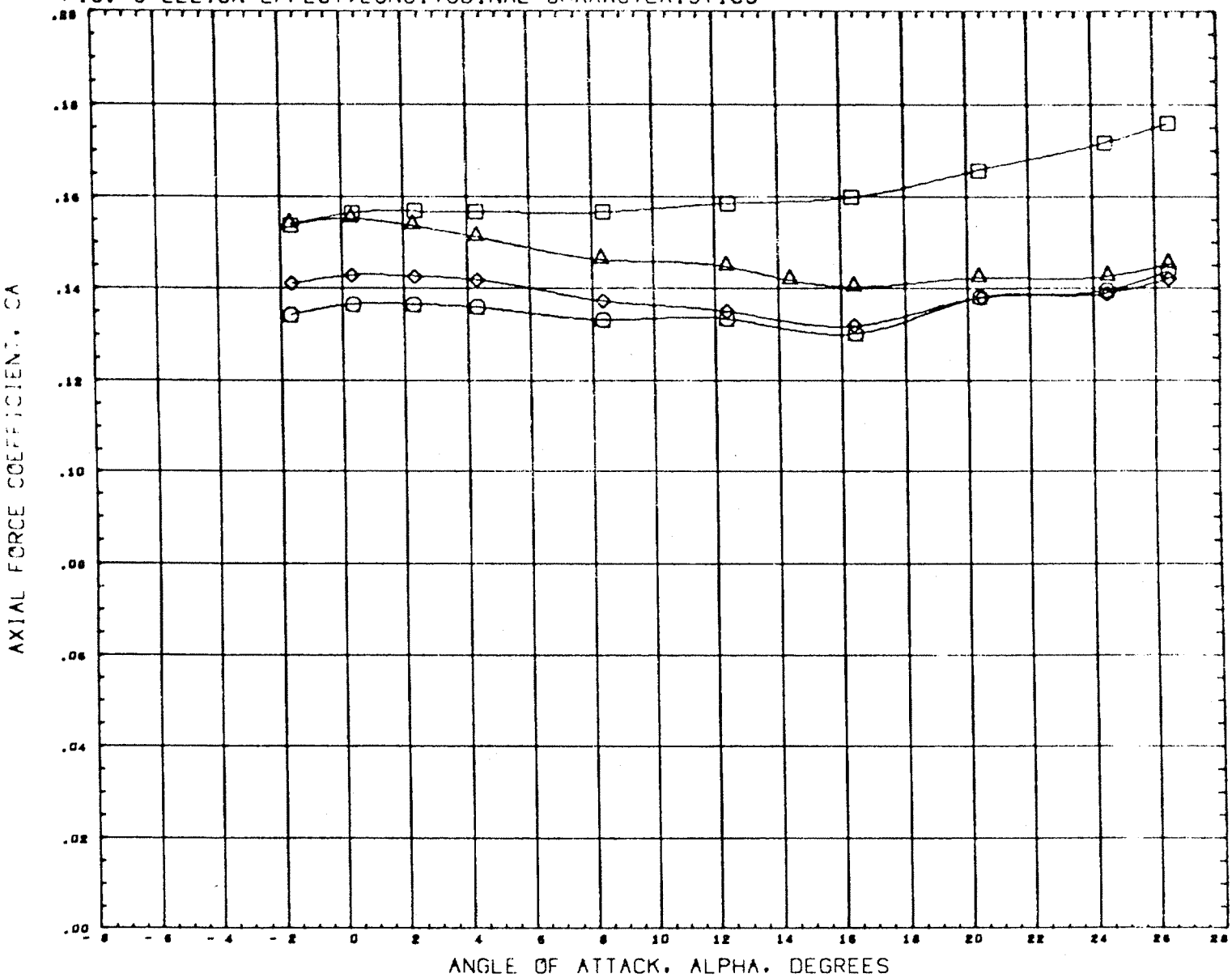
MACH 0.912

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0060	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



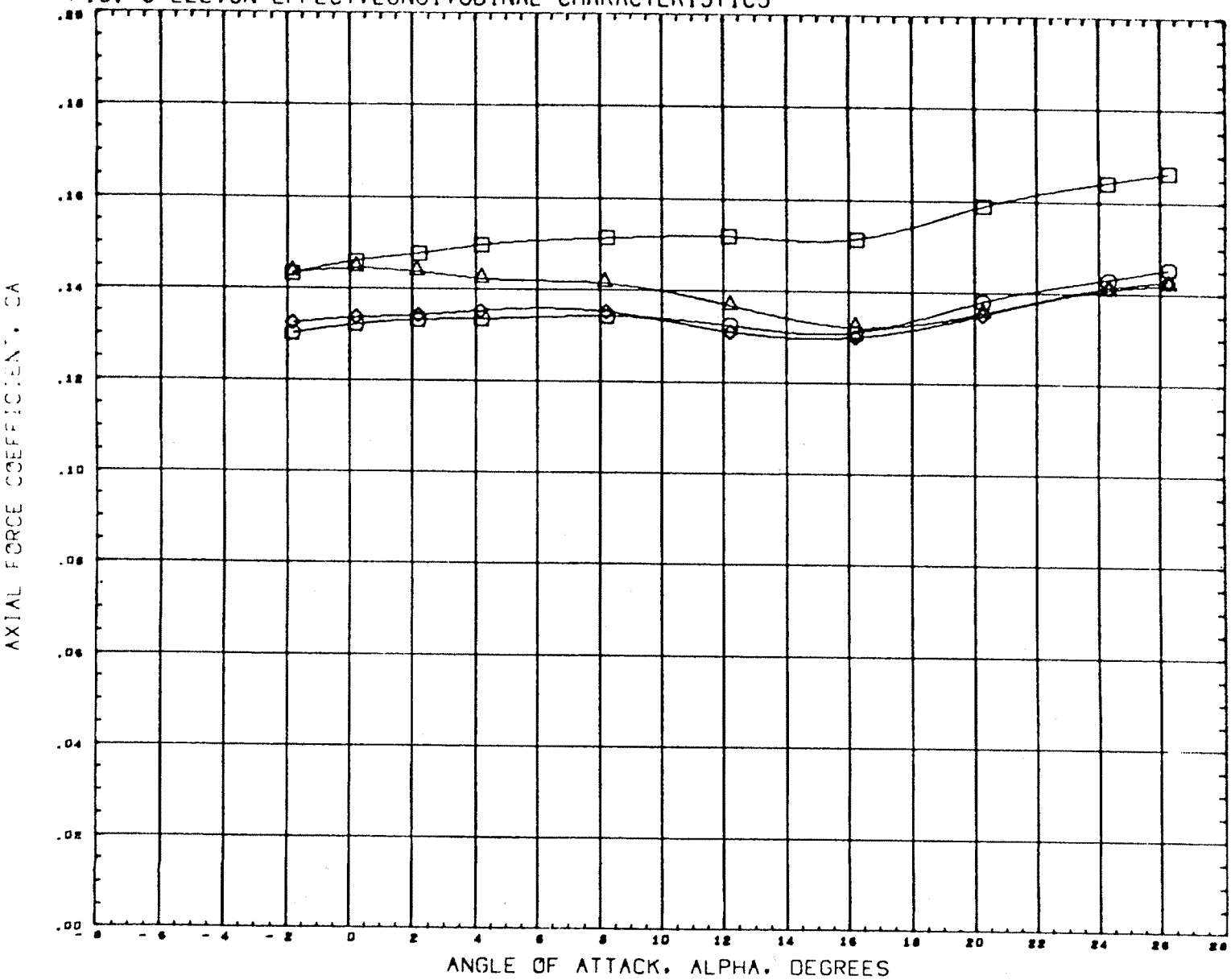
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 65-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



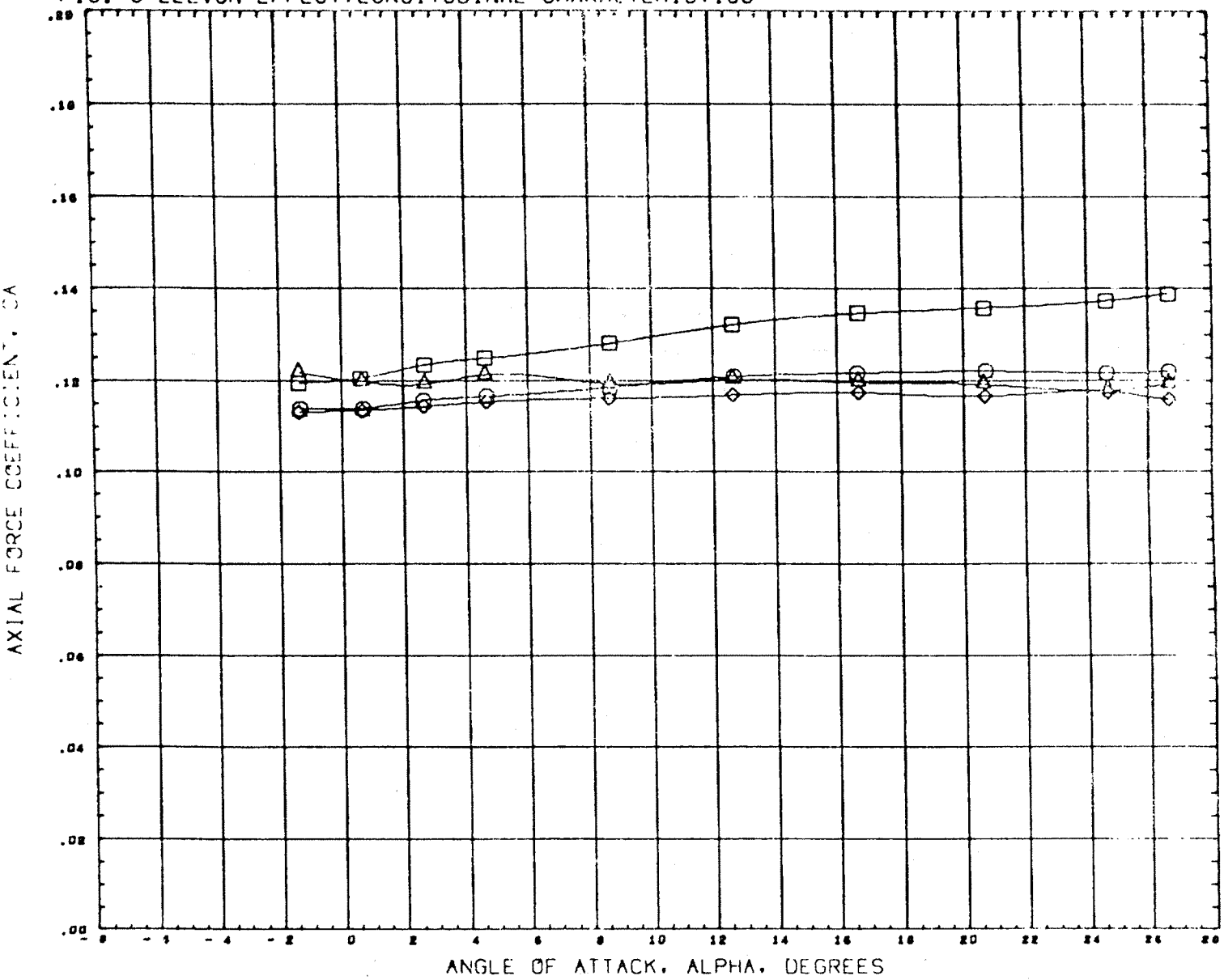
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



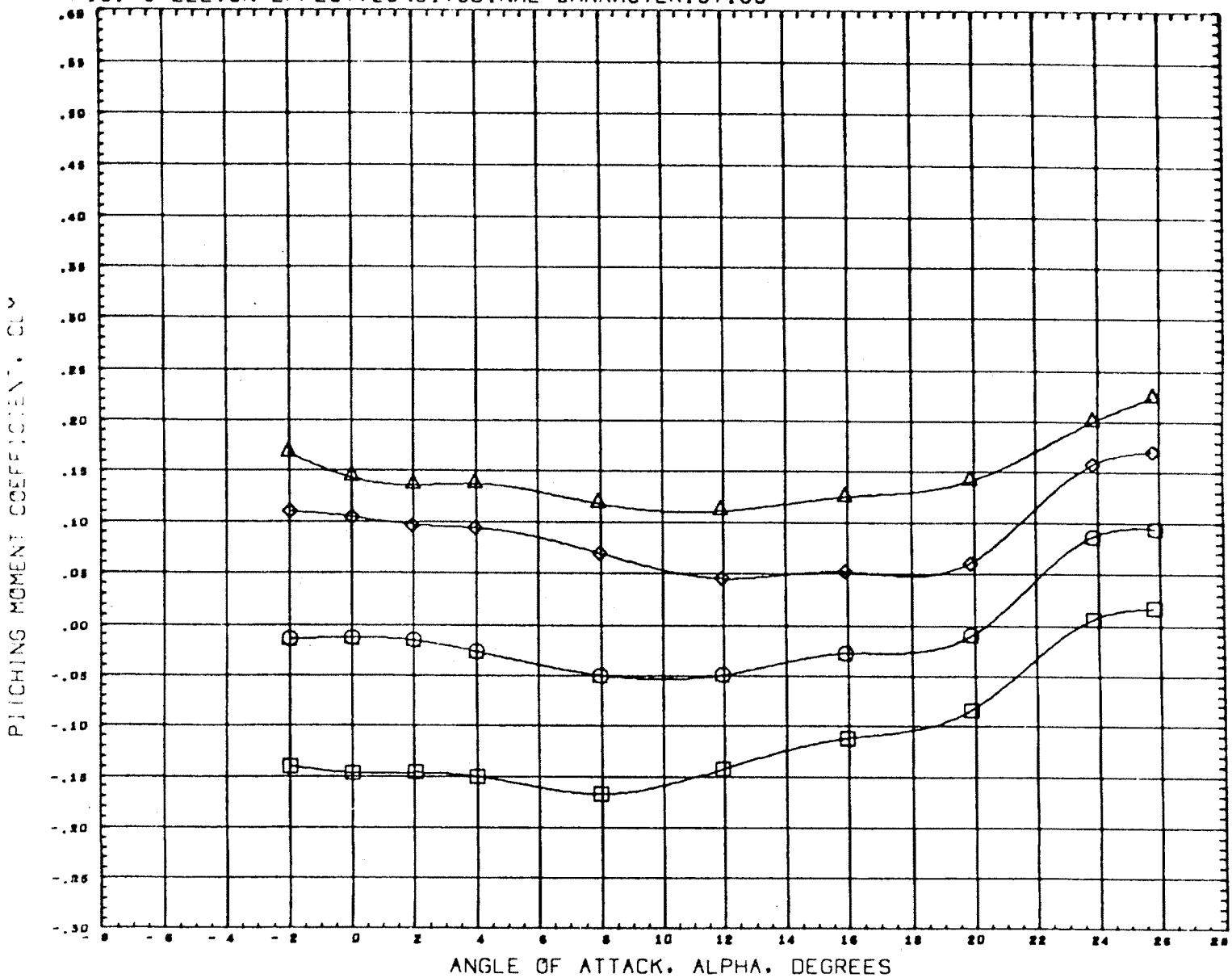
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	8.5410	IN.
BREF	15.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8166	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT.LONGITUDINAL CHARACTERISTICS



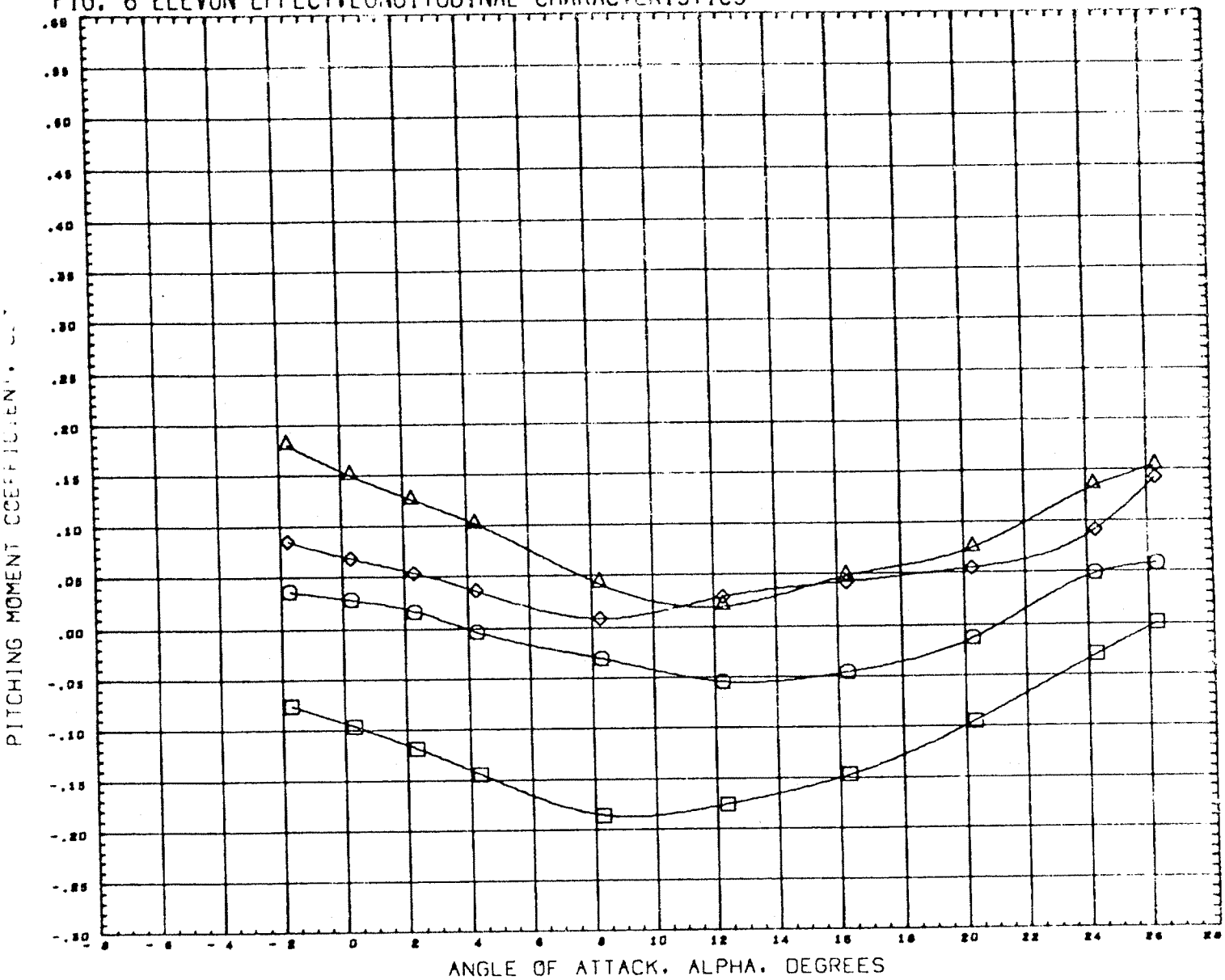
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V1CR2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2

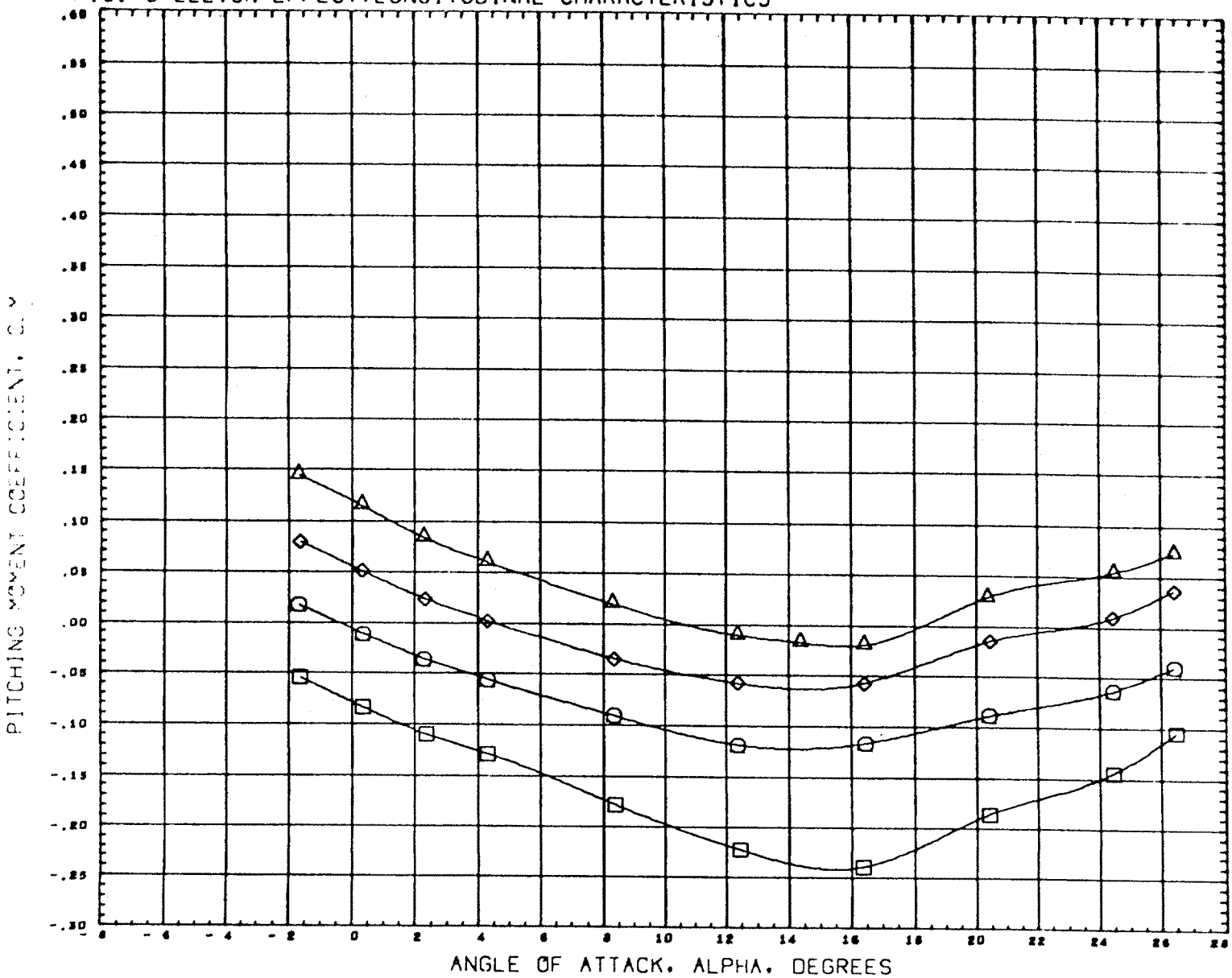
ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 6 ELEVON EFFECT.LONGITUDINAL CHARACTERISTICS



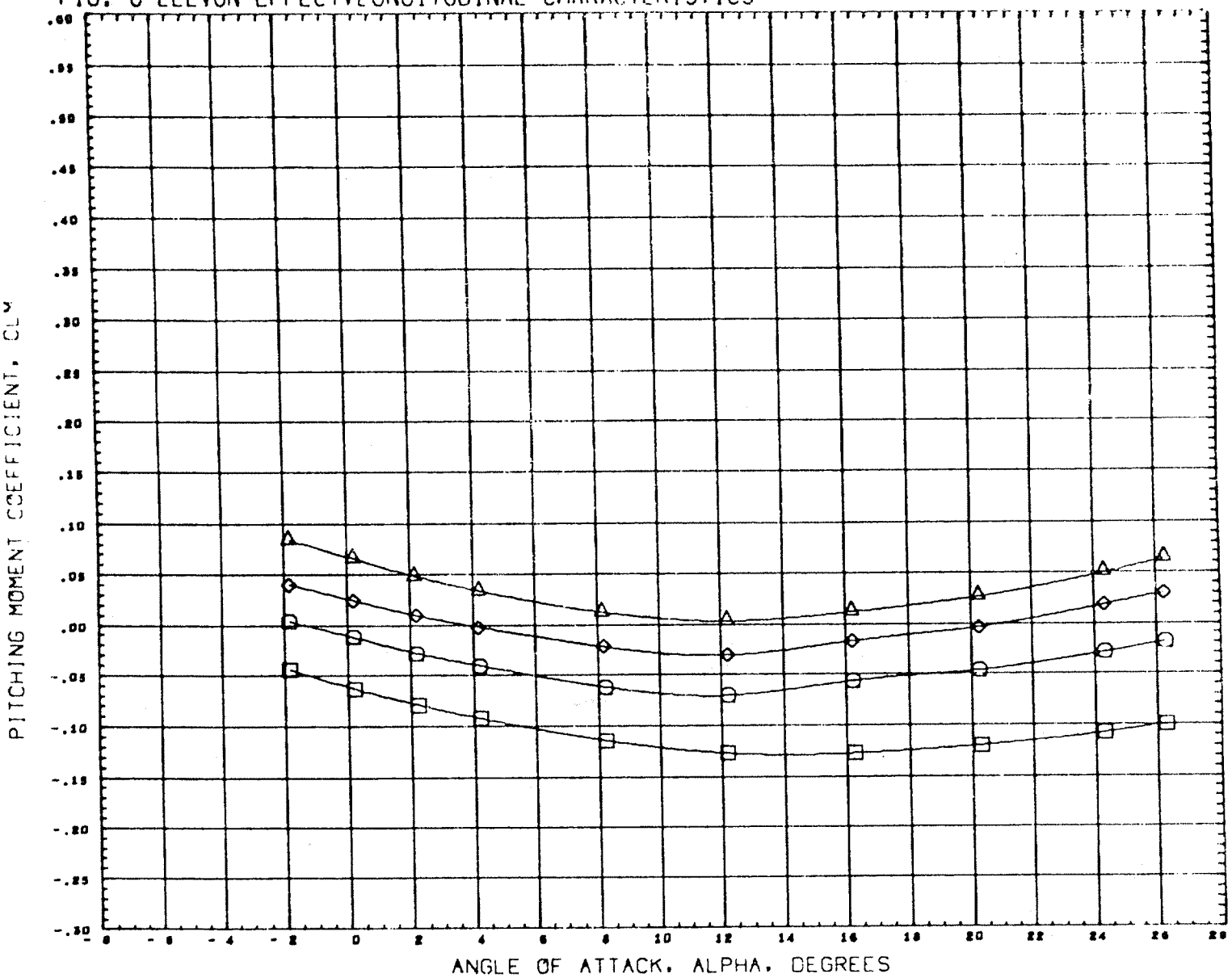
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



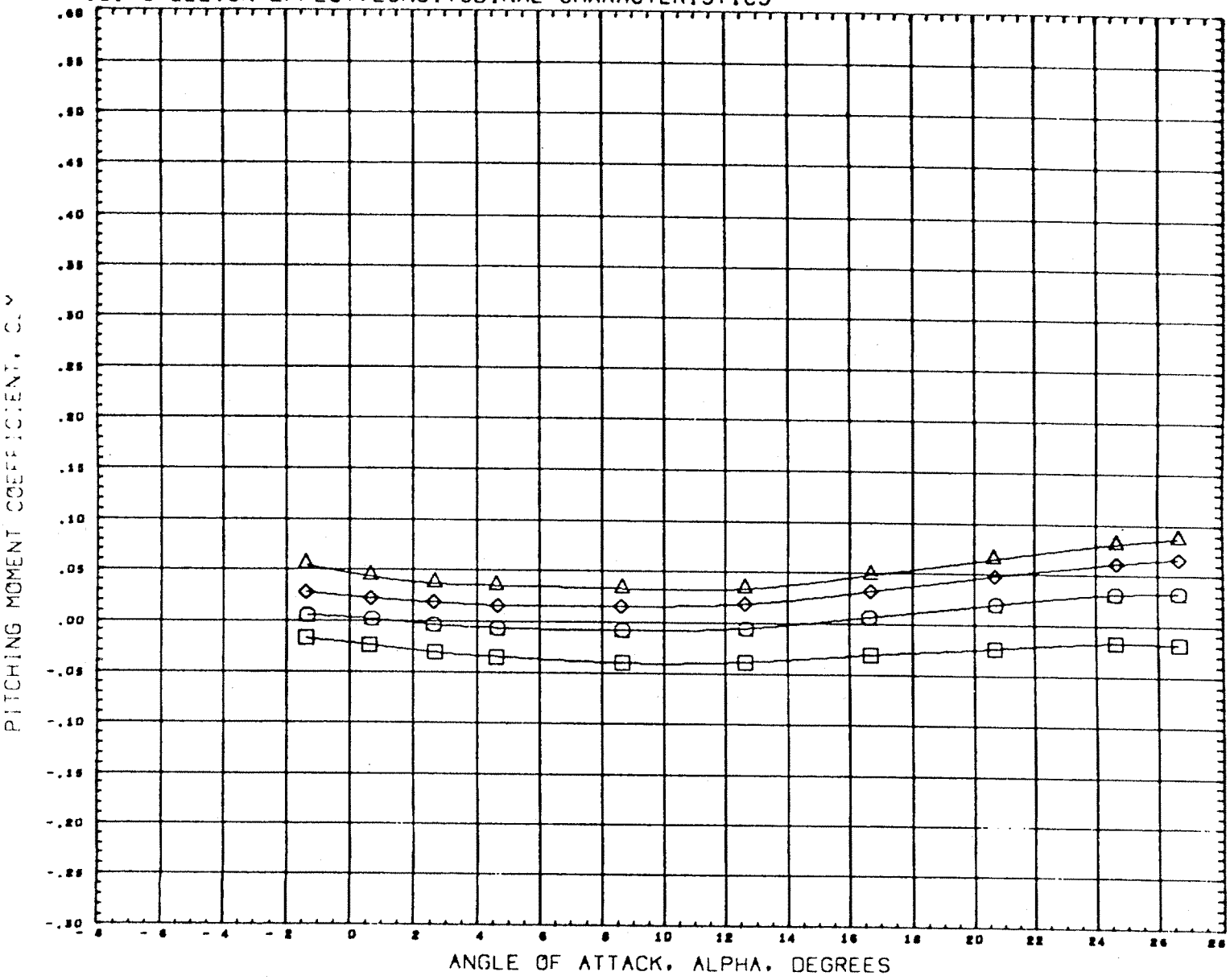
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.19[illegible]	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



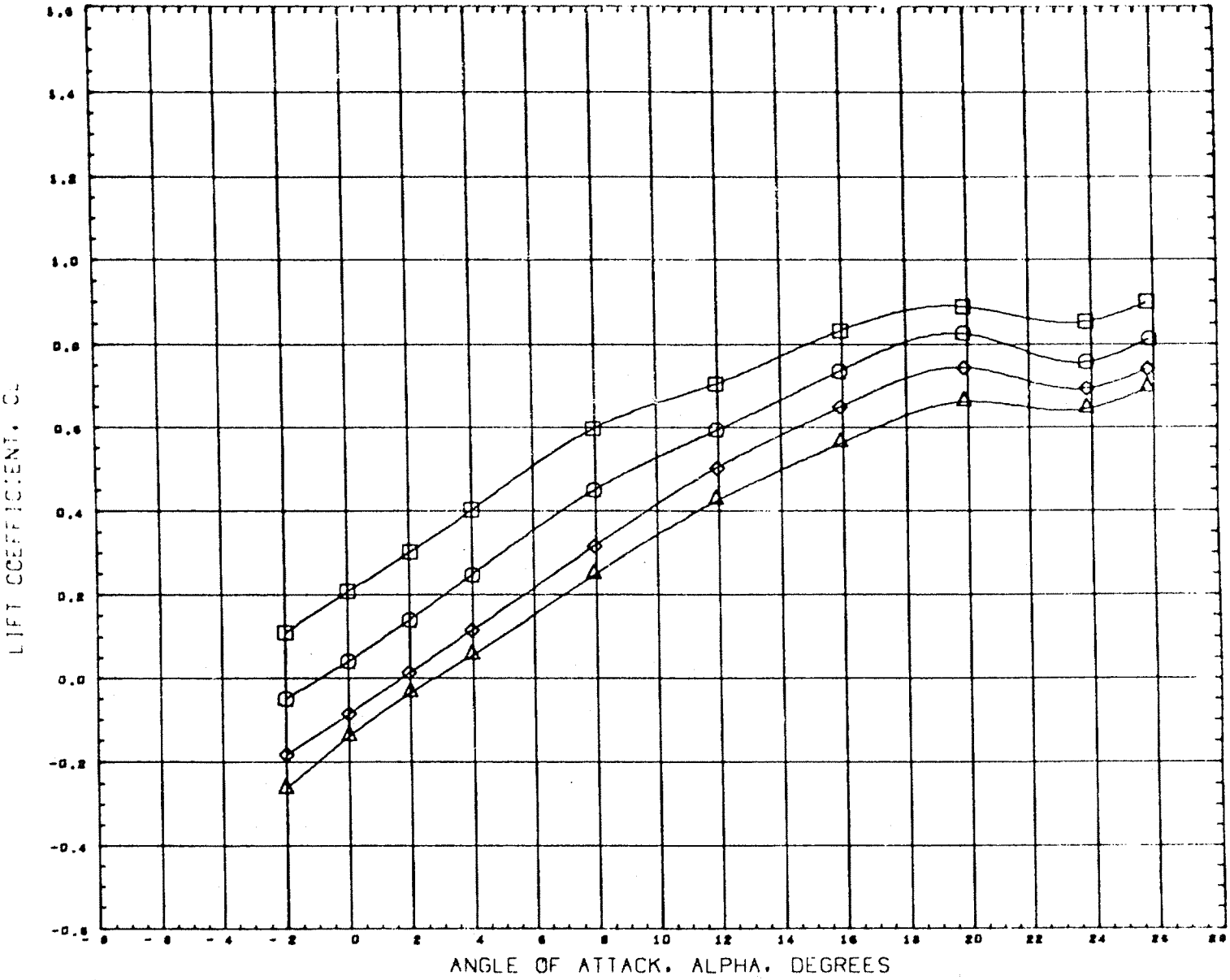
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



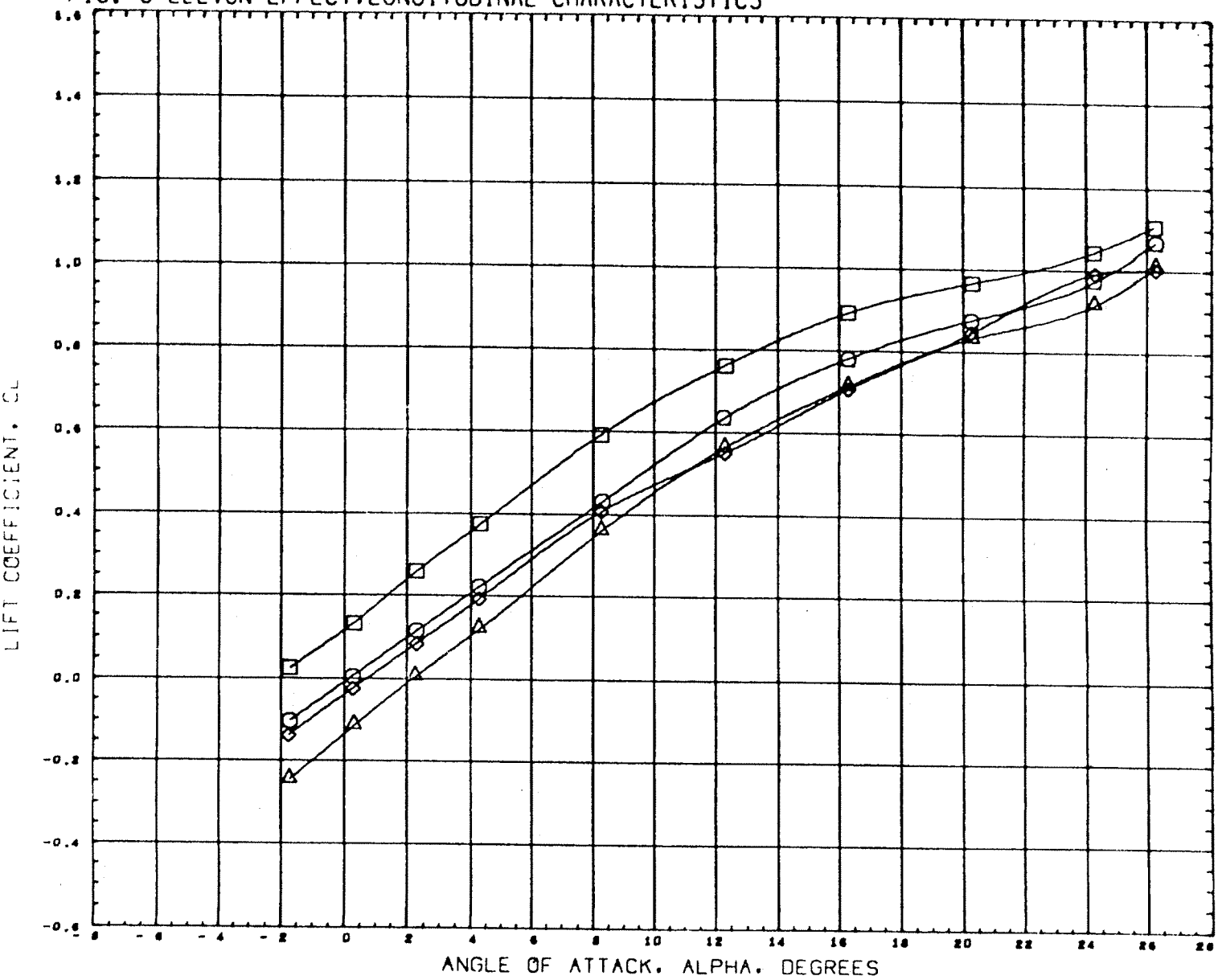
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C0W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C0W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C0W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C0W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2

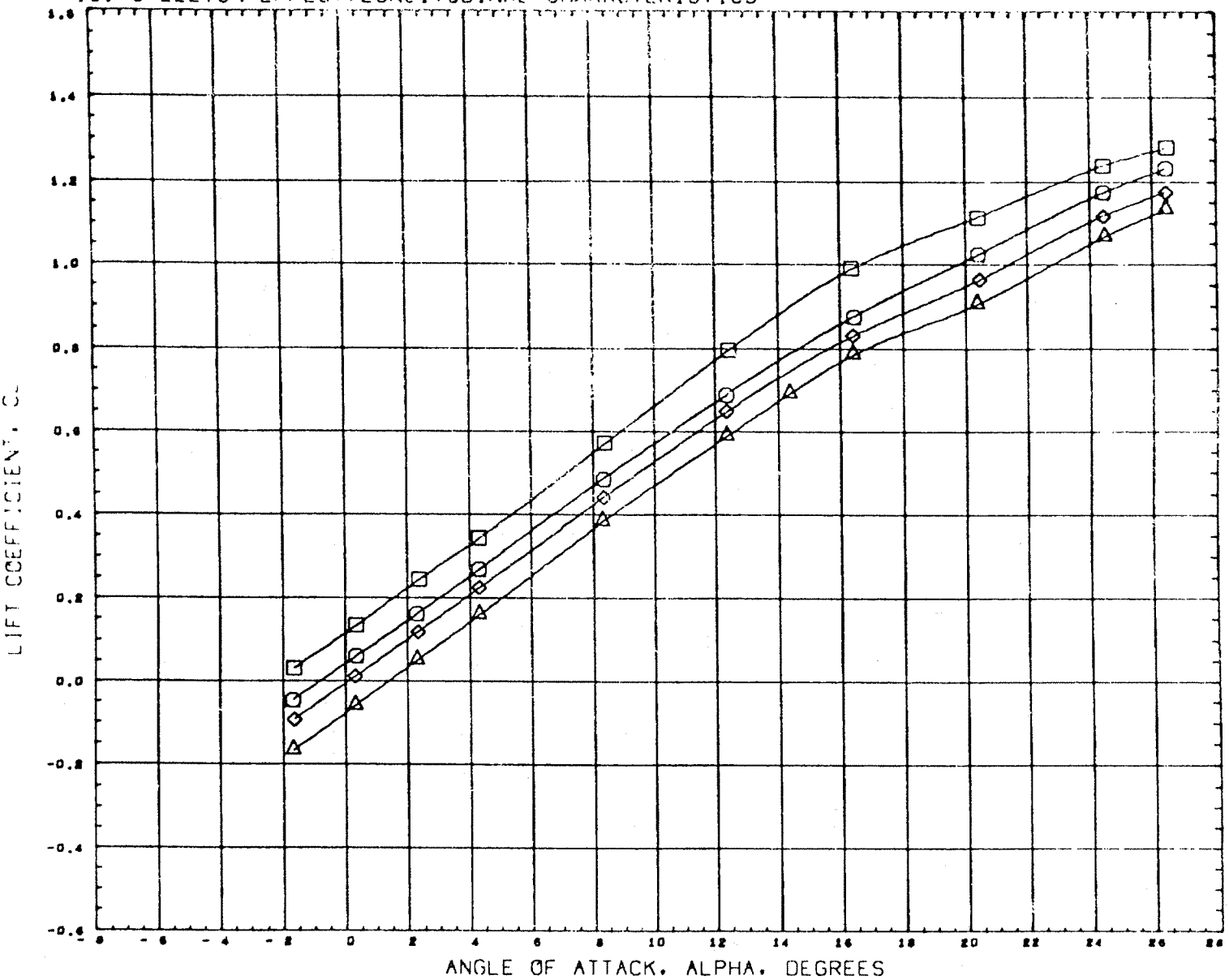
MACH 0.912

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



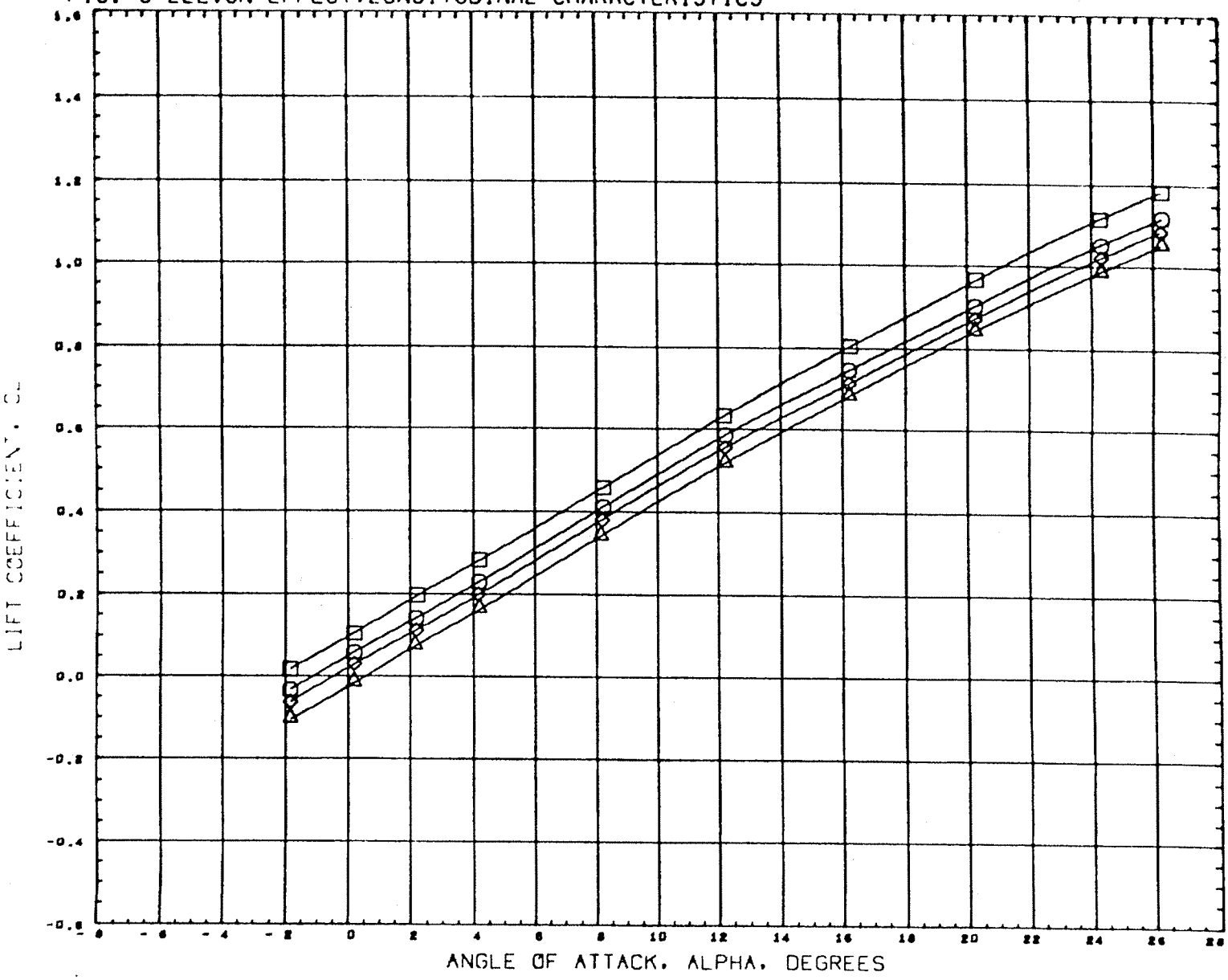
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000	0.000
(CBAZ55)	☒	AMES 66-563 BZZC8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 BZZC8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 BZZC8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT,LONGITUDINAL CHARACTERISTICS



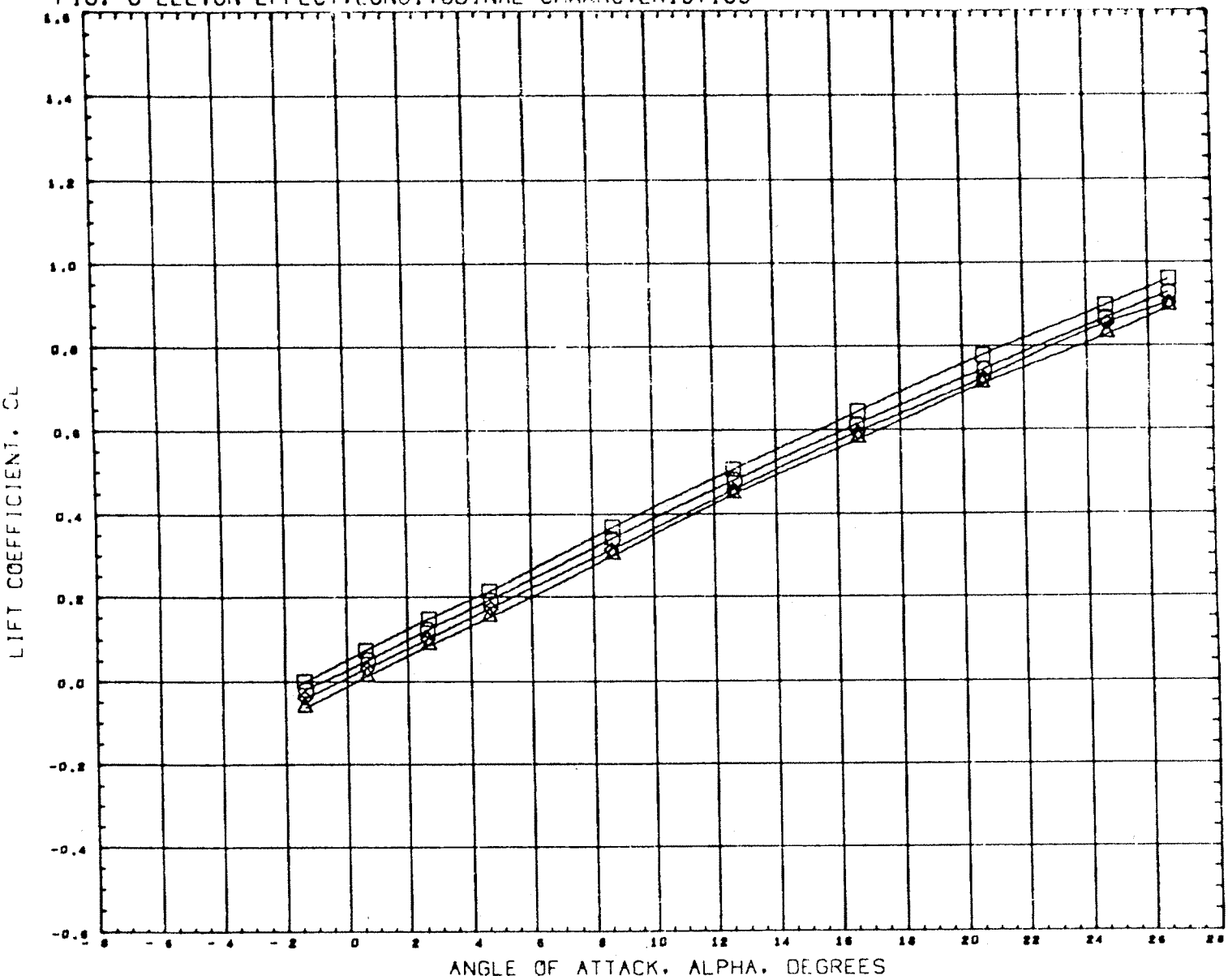
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 BZZC8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 BZZC8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 BZZC8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 BZZC8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8180	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



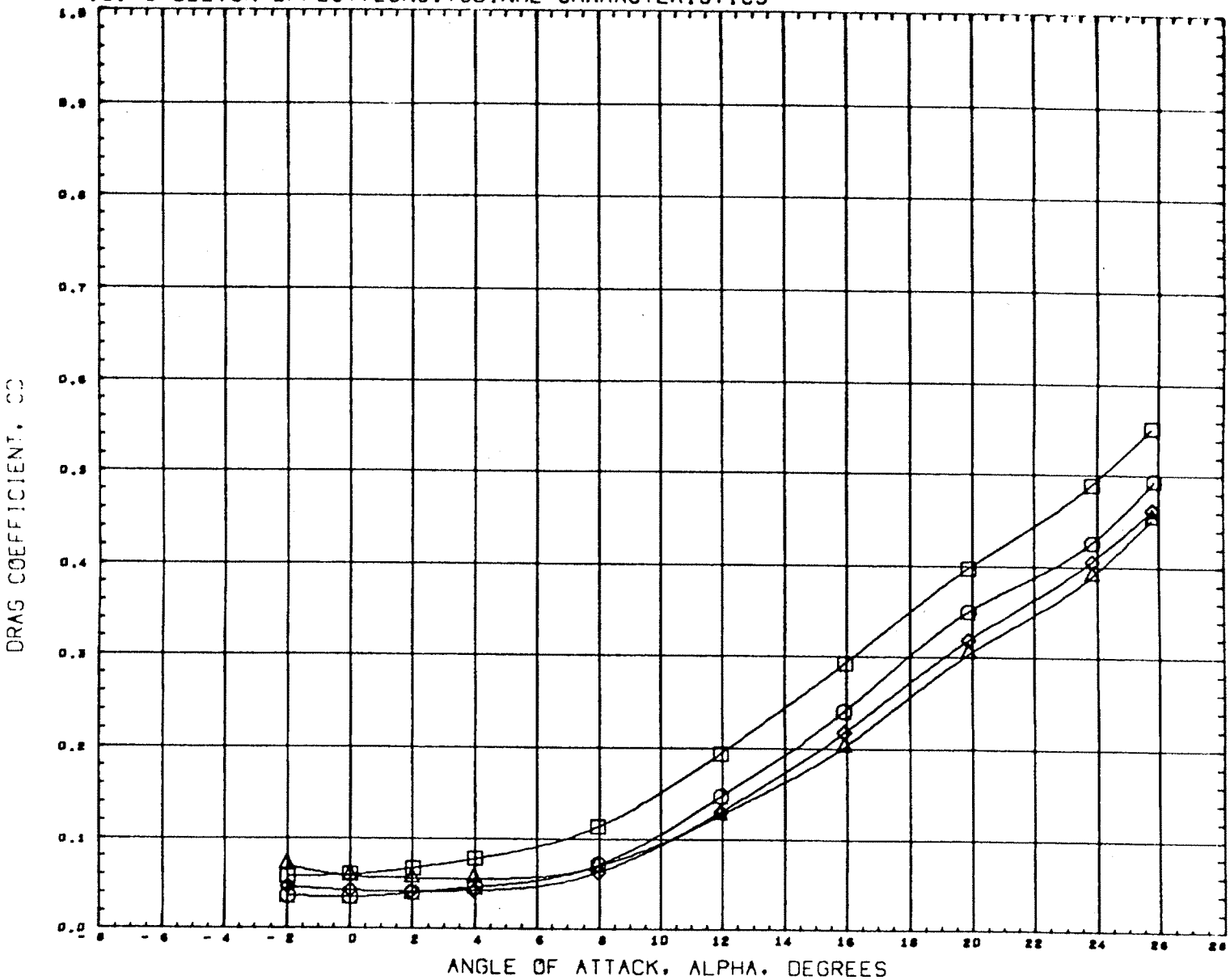
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



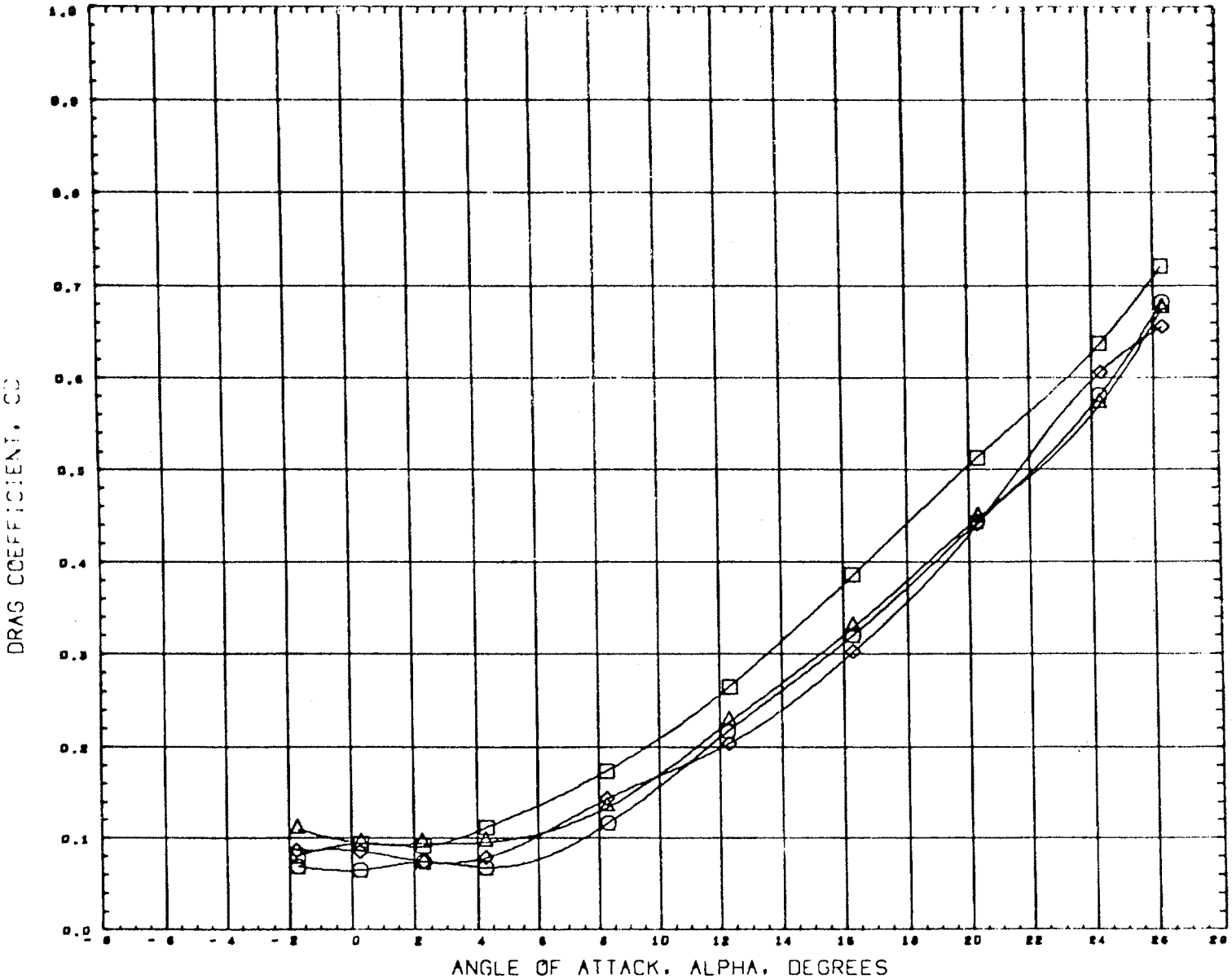
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1930	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



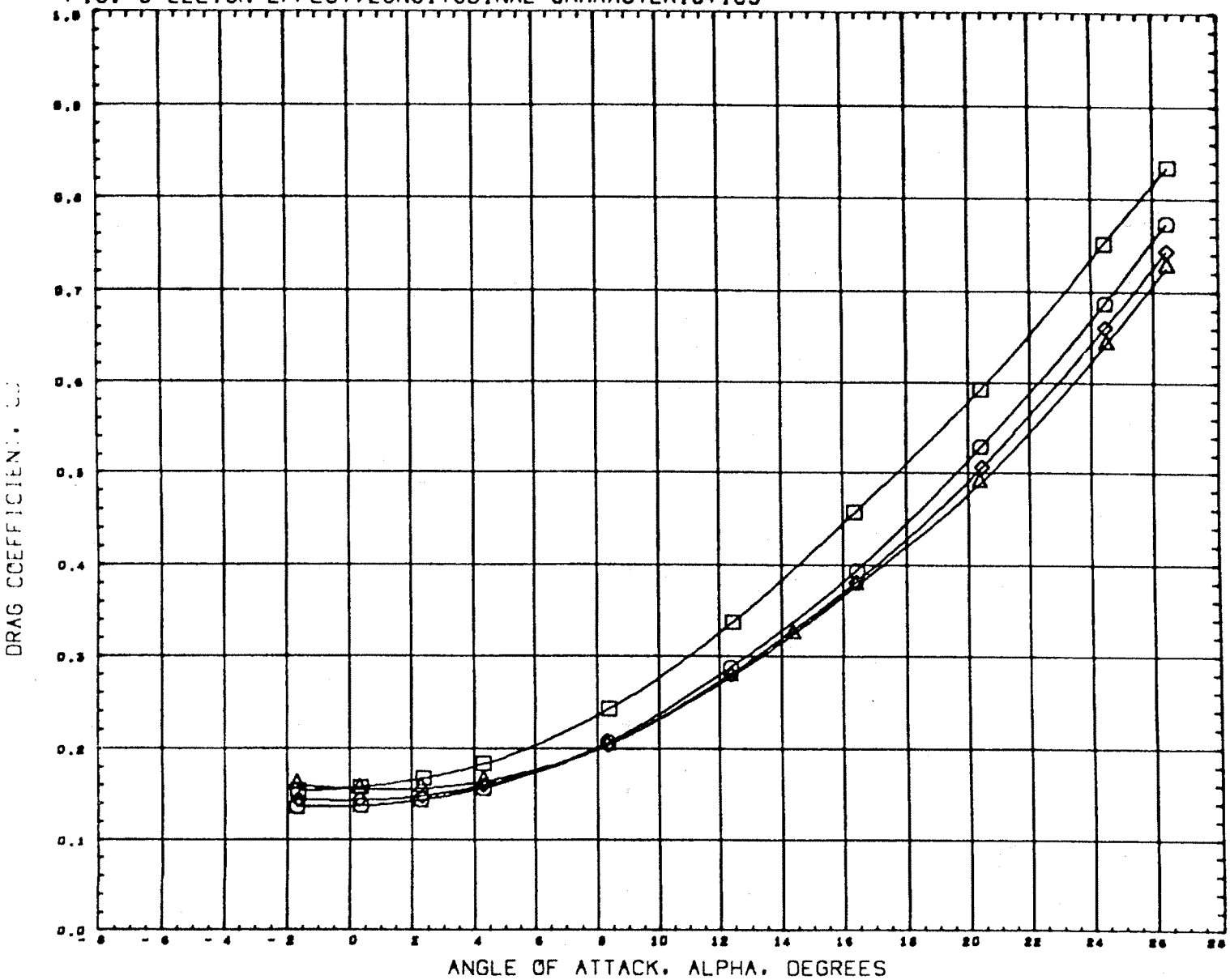
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1650	SQ IN
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



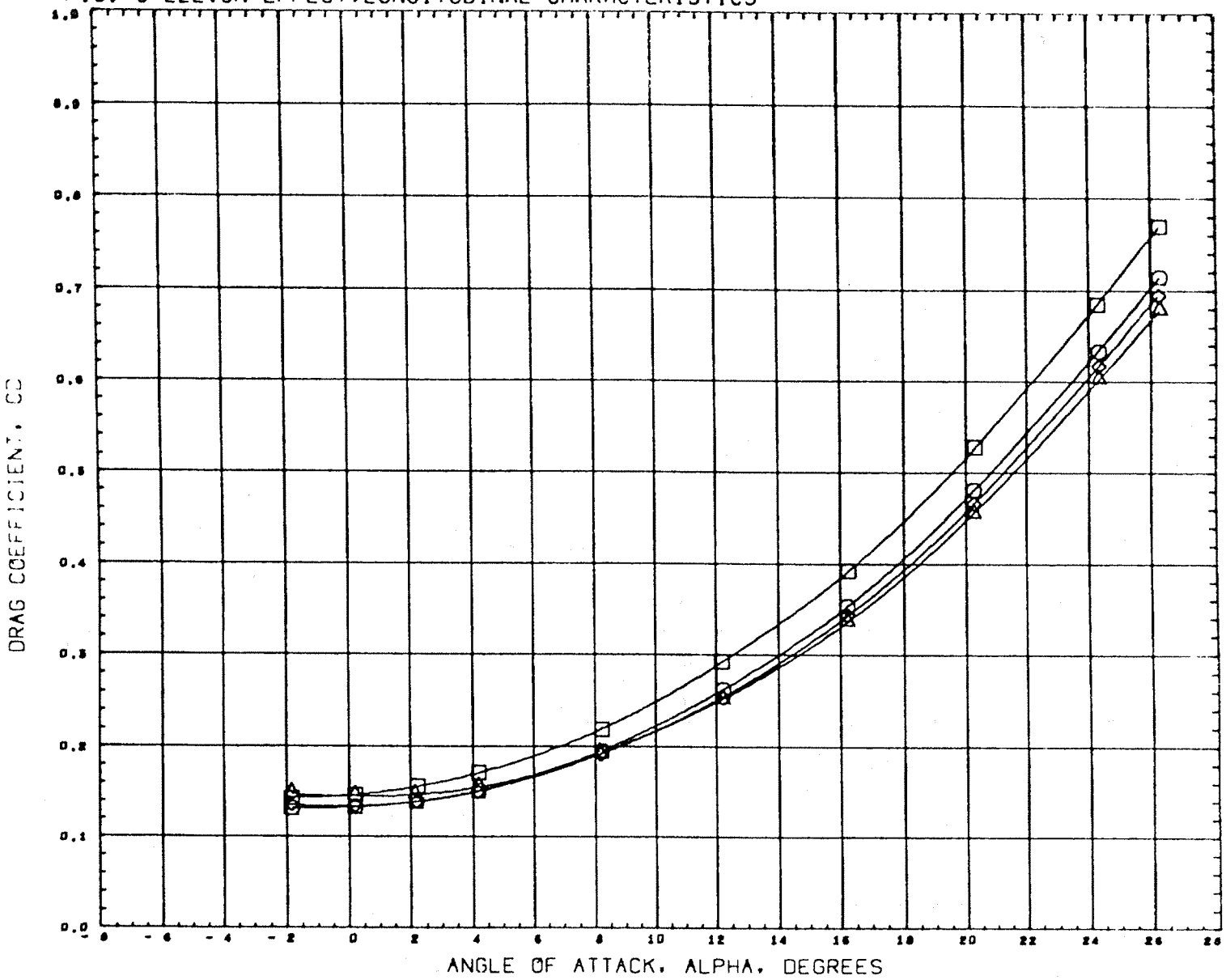
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAR50)	○	AMES 66-563 BZZC8W19V10R2	0.000	0.000
(CBAR55)	△	AMES 66-563 BZZC8W19V10R2	-20.000	0.000
(CBAR53)	◇	AMES 66-563 BZZC8W19V10R2	-10.000	0.000
(CBAR54)	□	AMES 66-563 BZZC8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



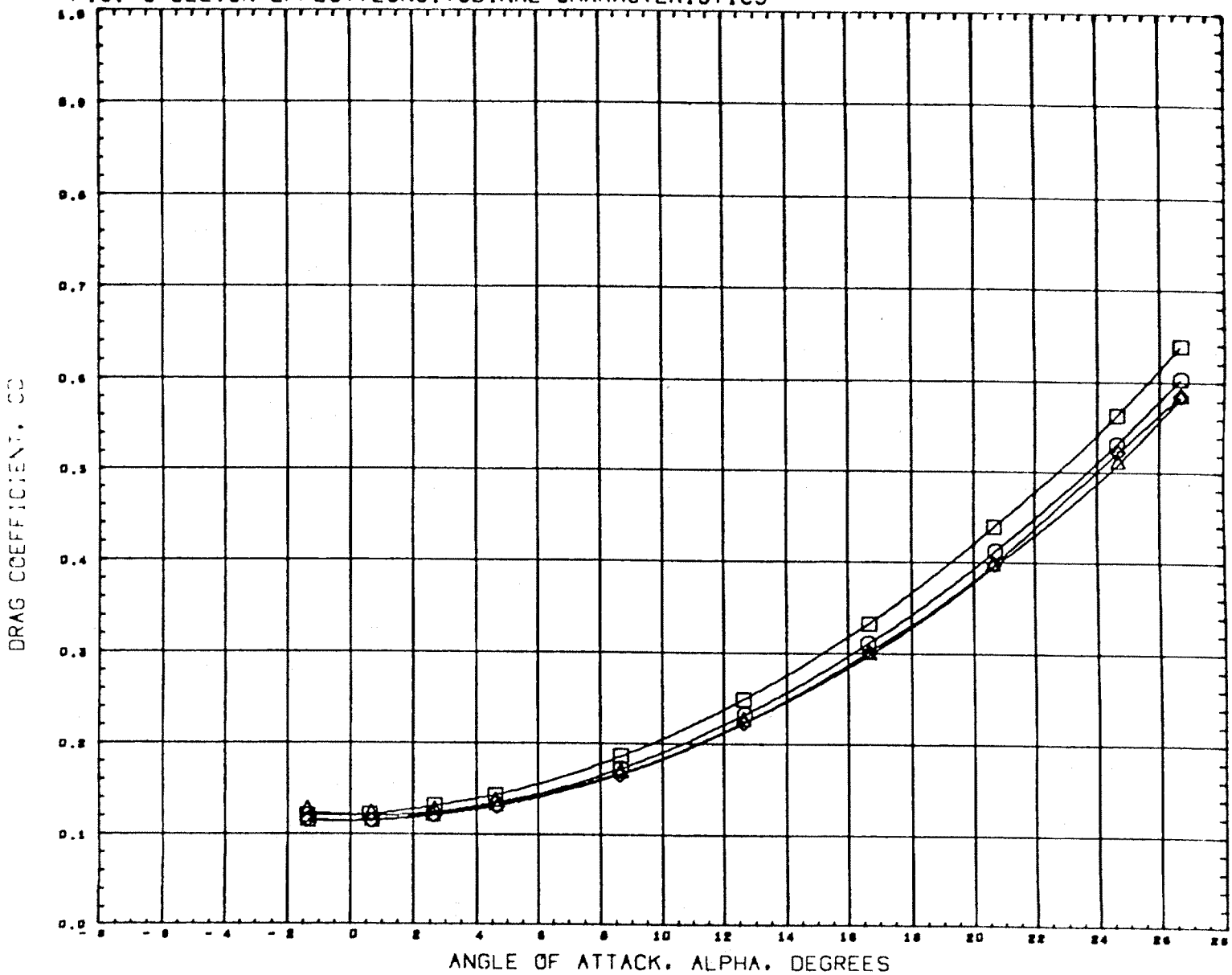
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT.LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA230)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

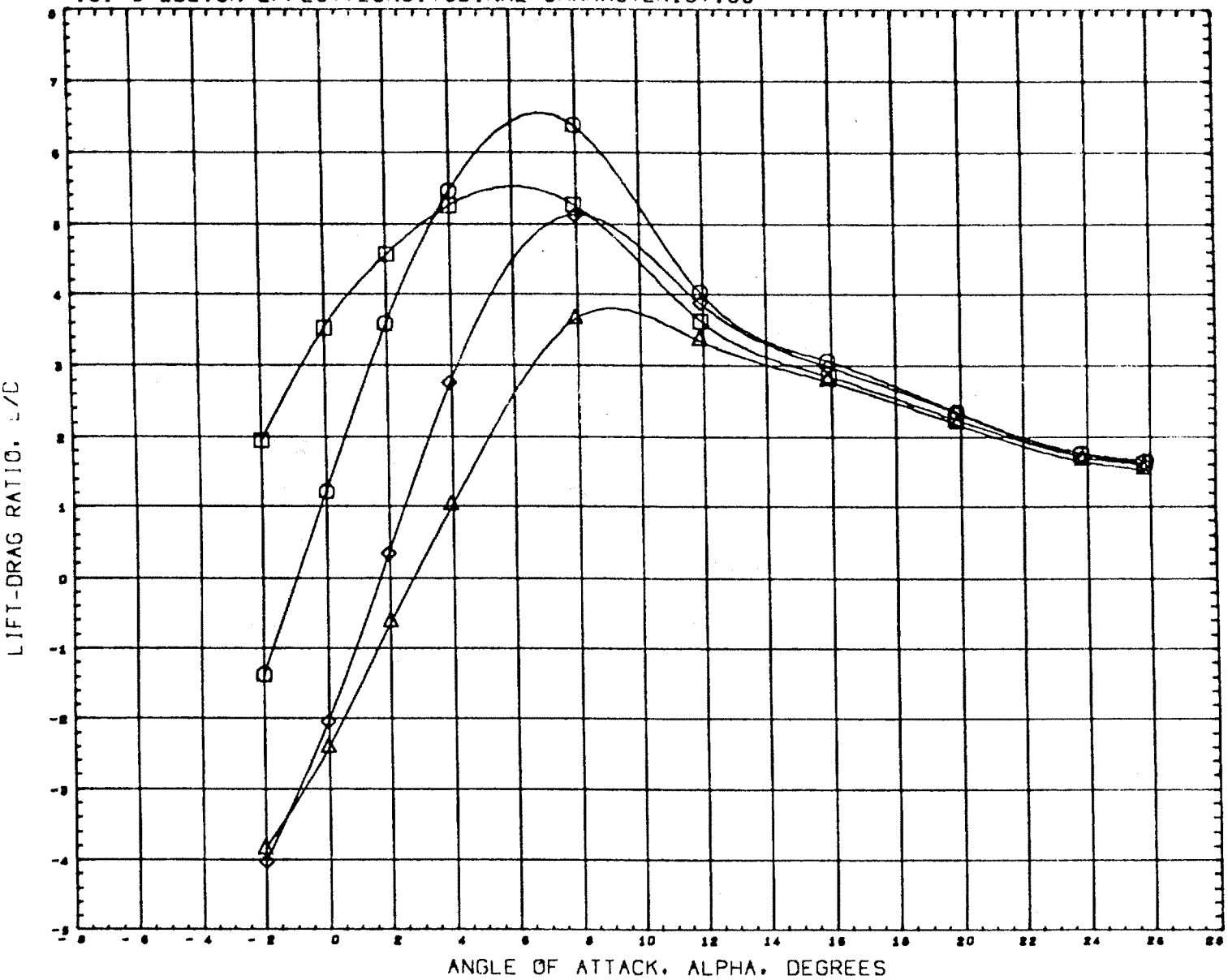
MACH 2.004

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS

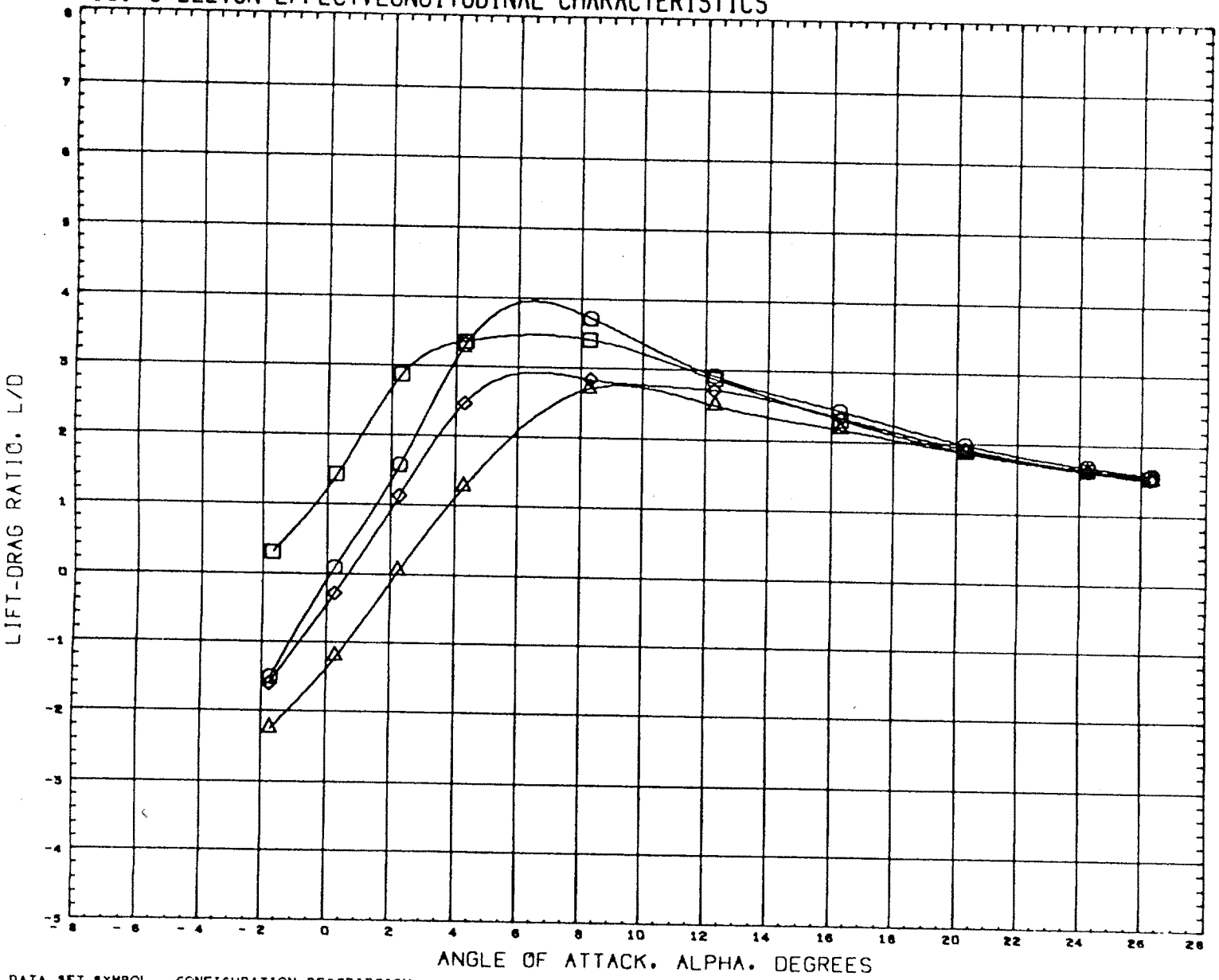


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBAZ55)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBAZ53)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBAZ54)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6300	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

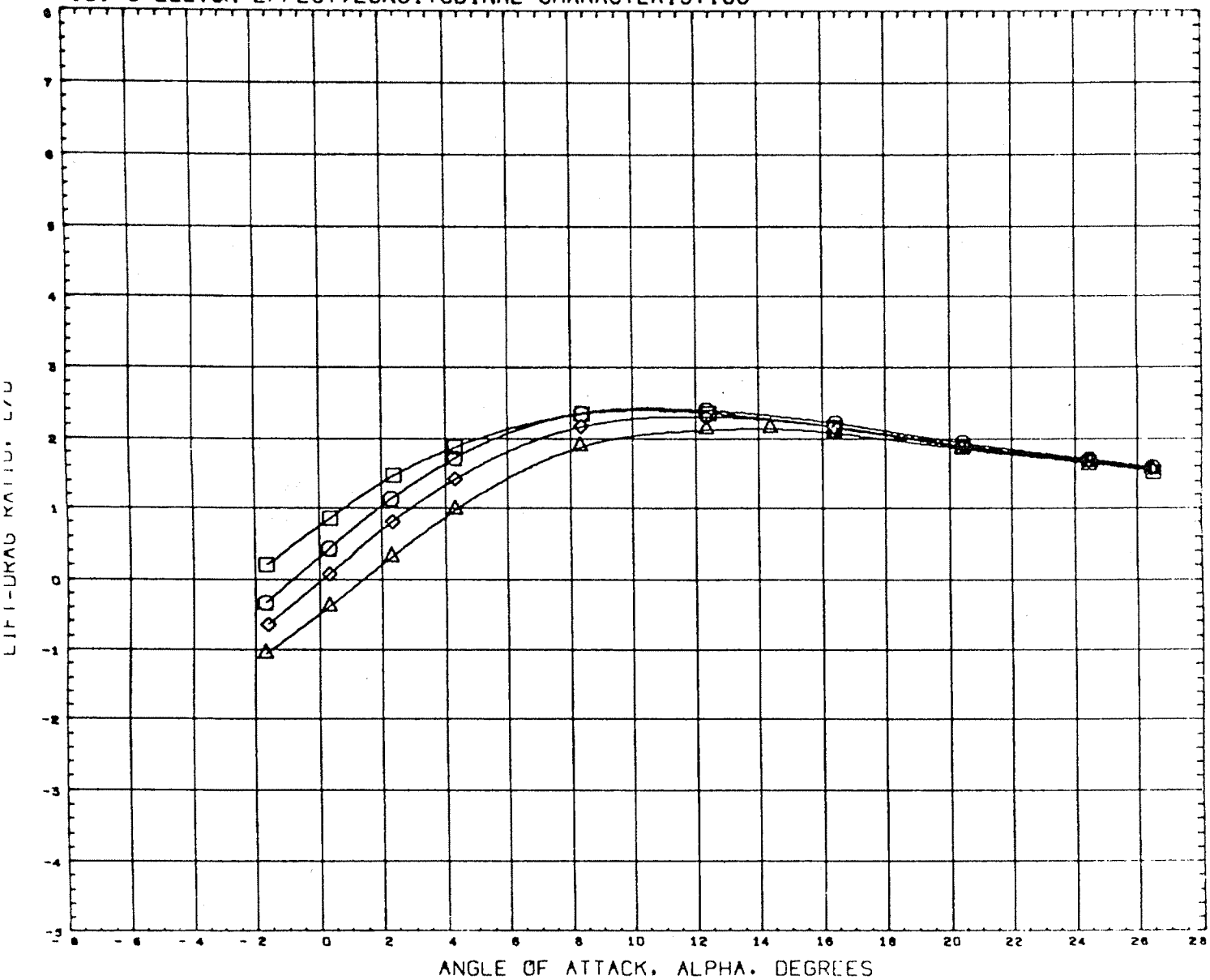
MACH 0.912

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0078	

FIG. 6 ELEVON EFFECT,LONGITUDINAL CHARACTERISTICS



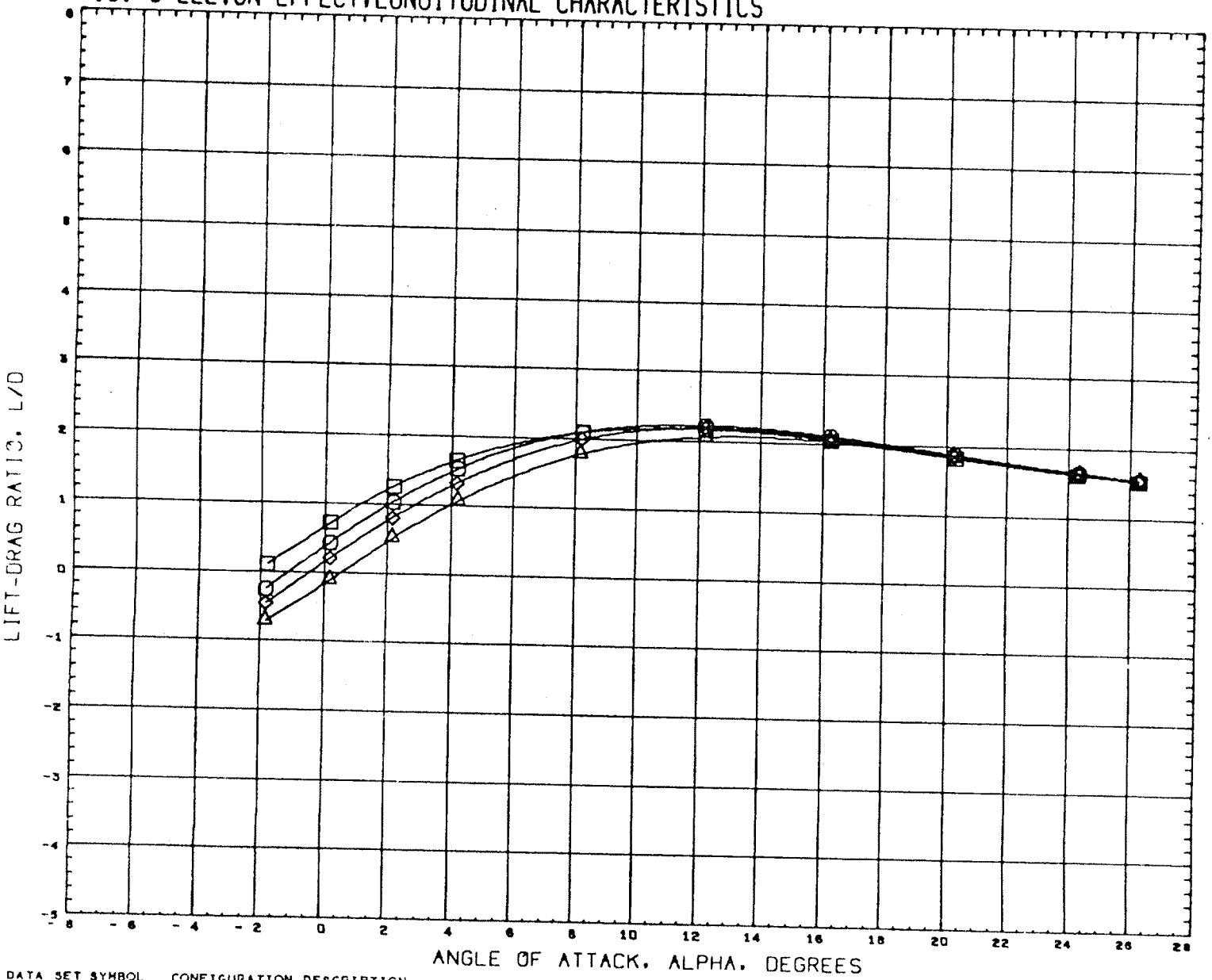
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

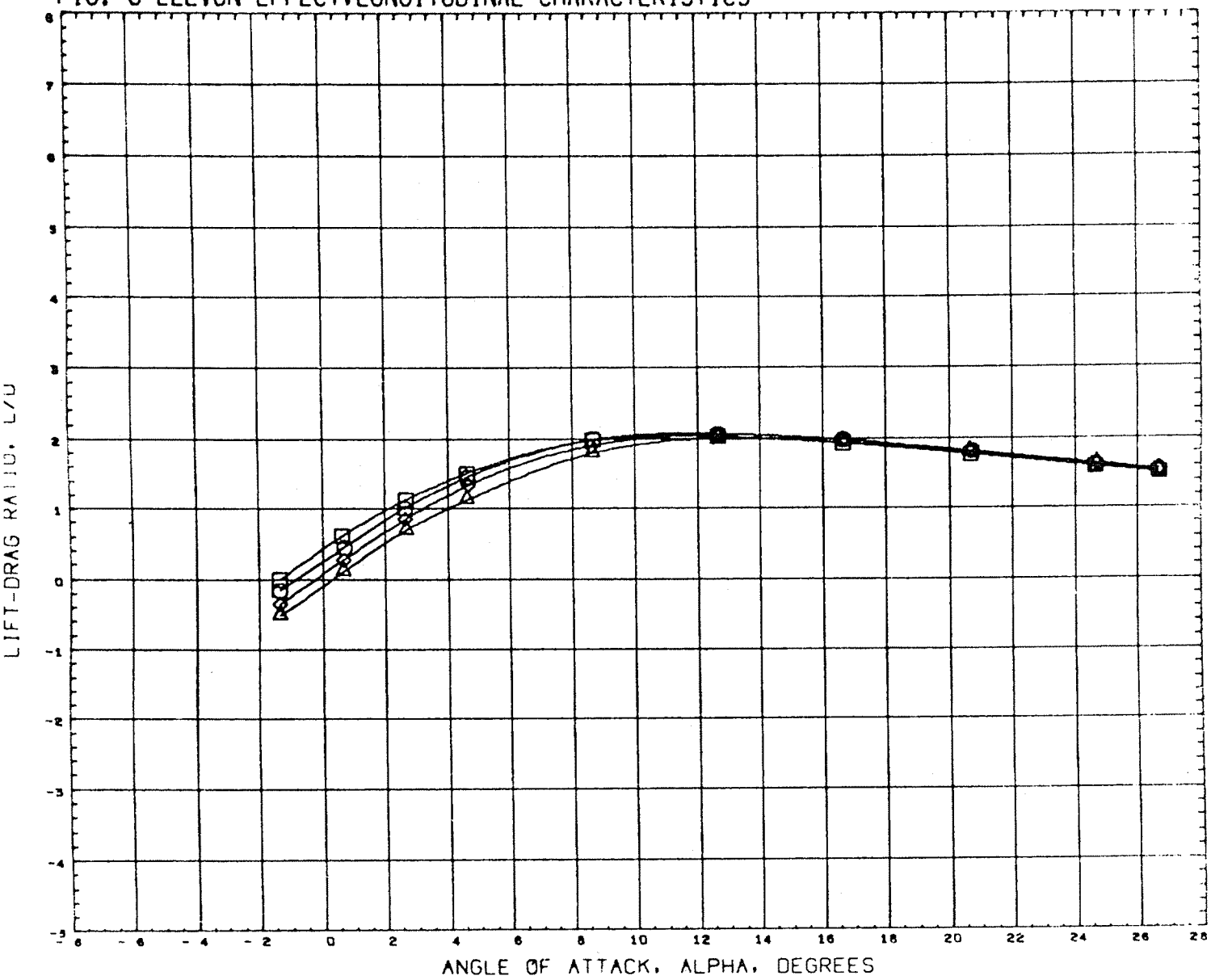
MACH 1.497

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA253)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

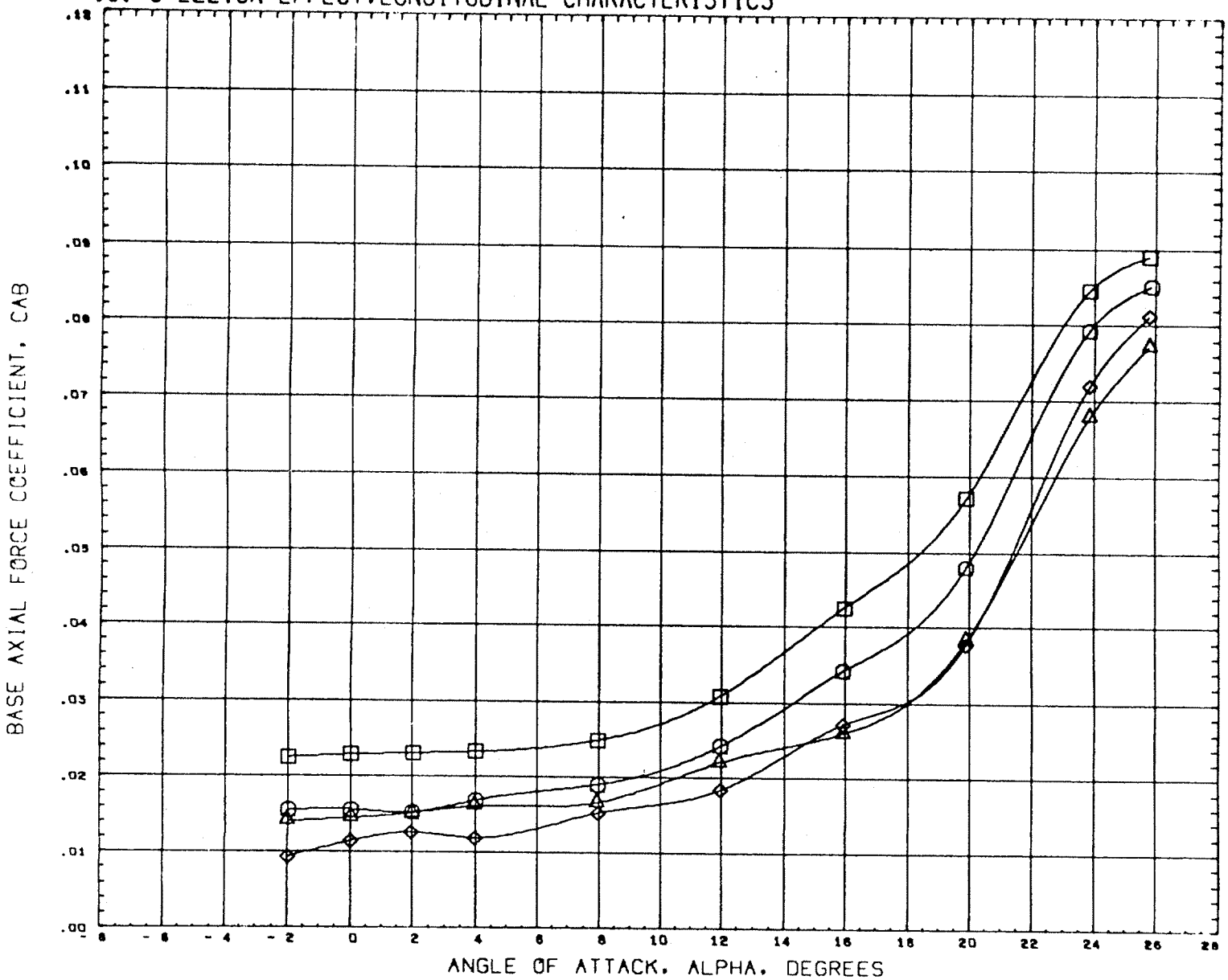
ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

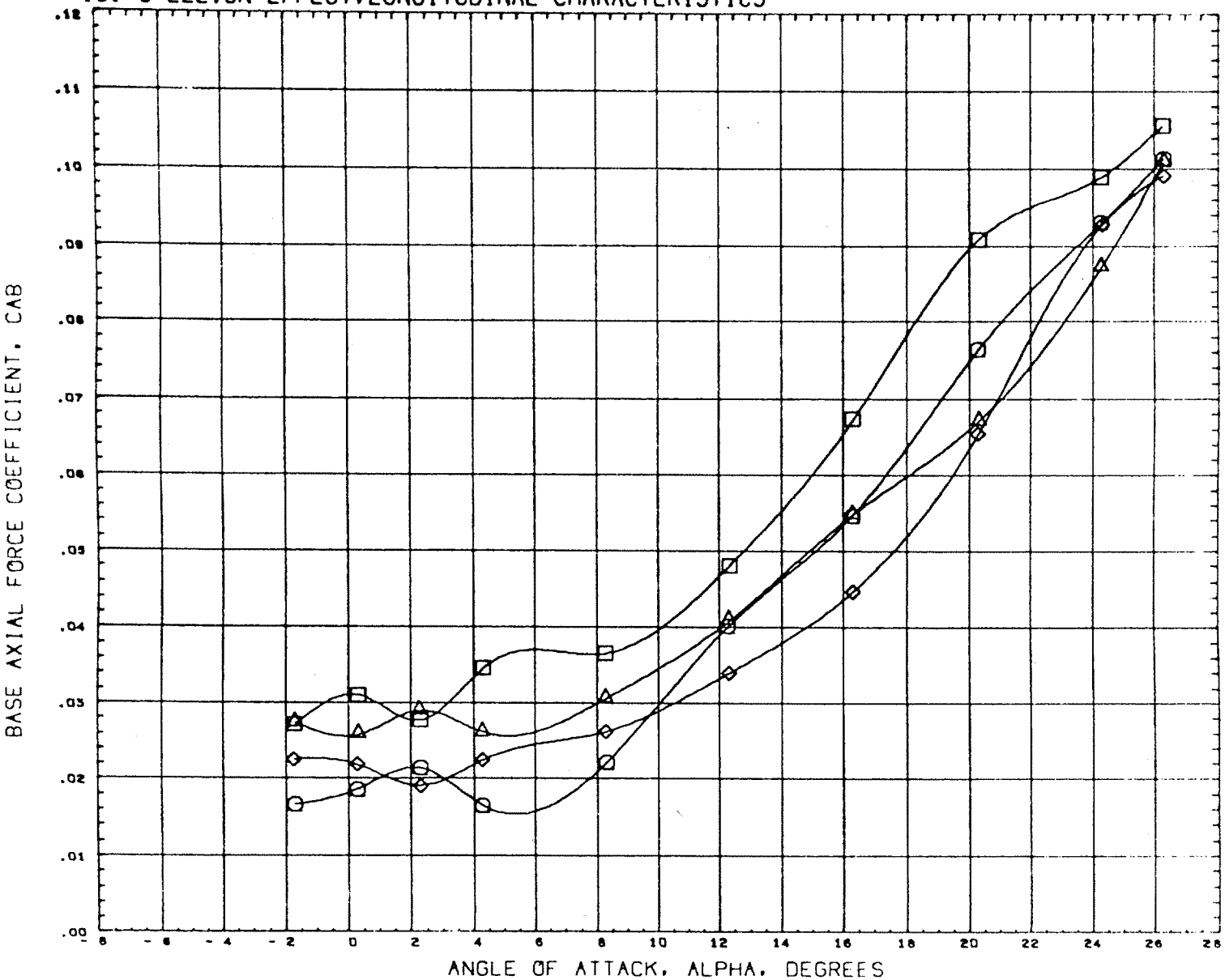
MACH 0.611

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS

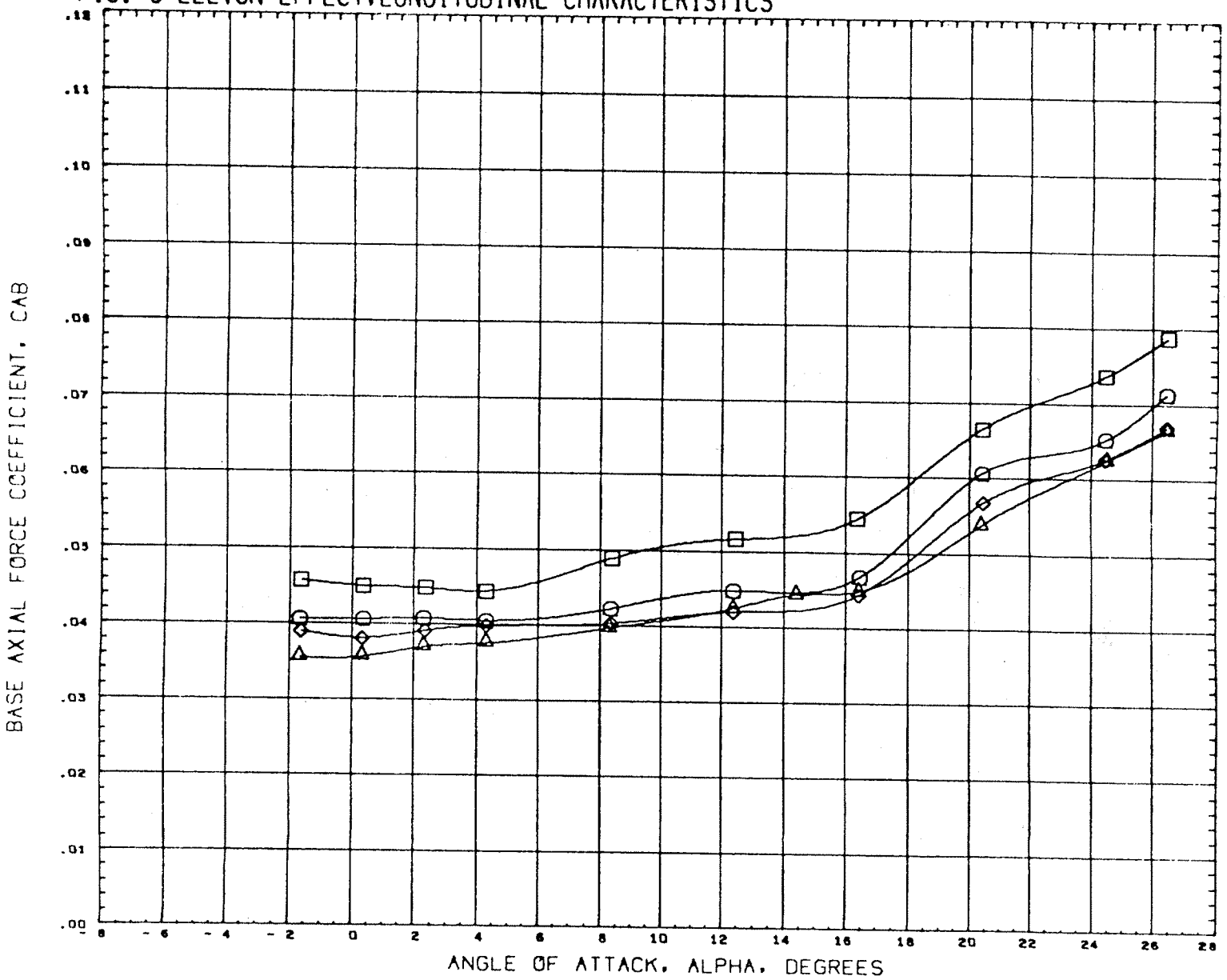


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

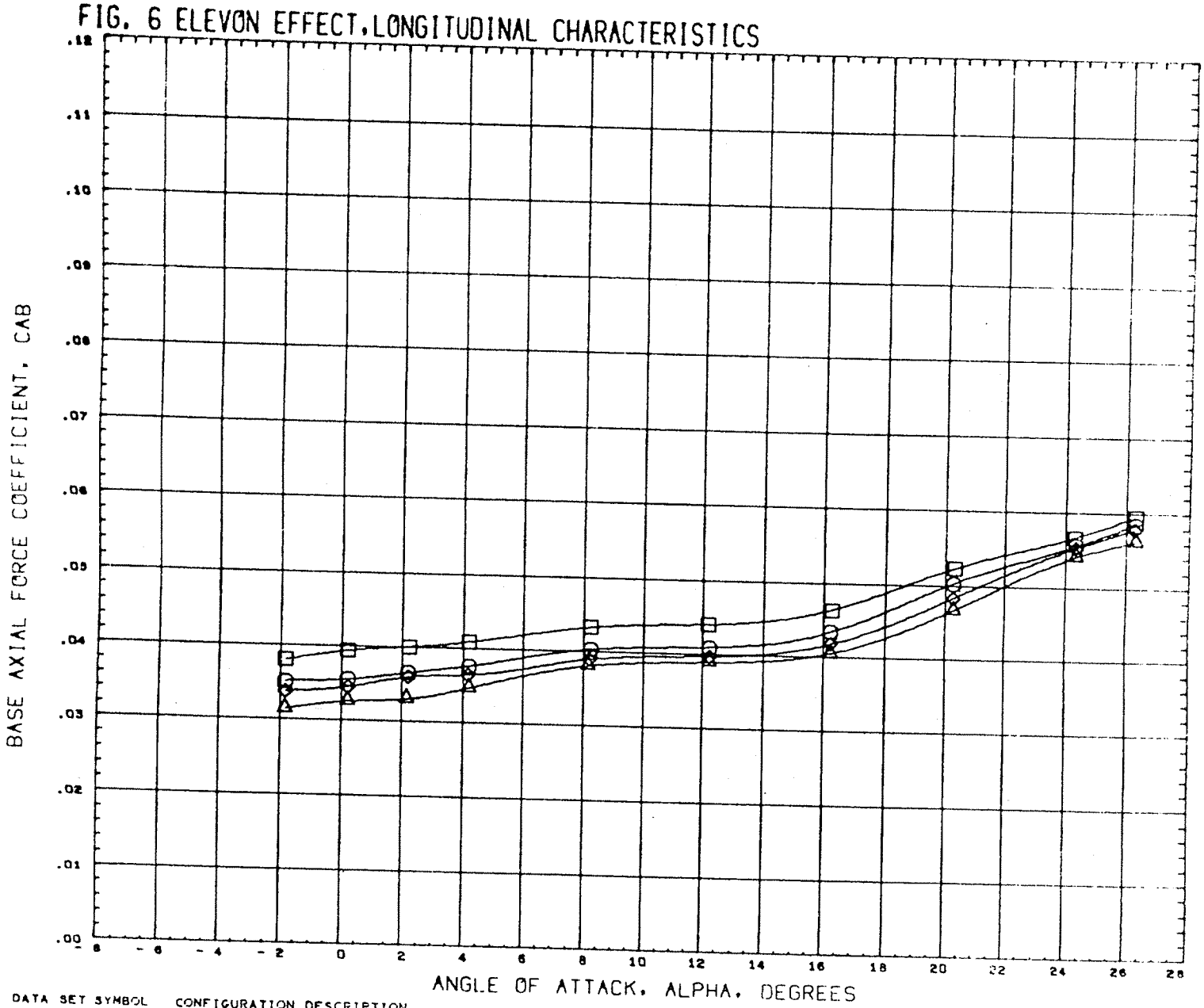
MACH 1.204

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

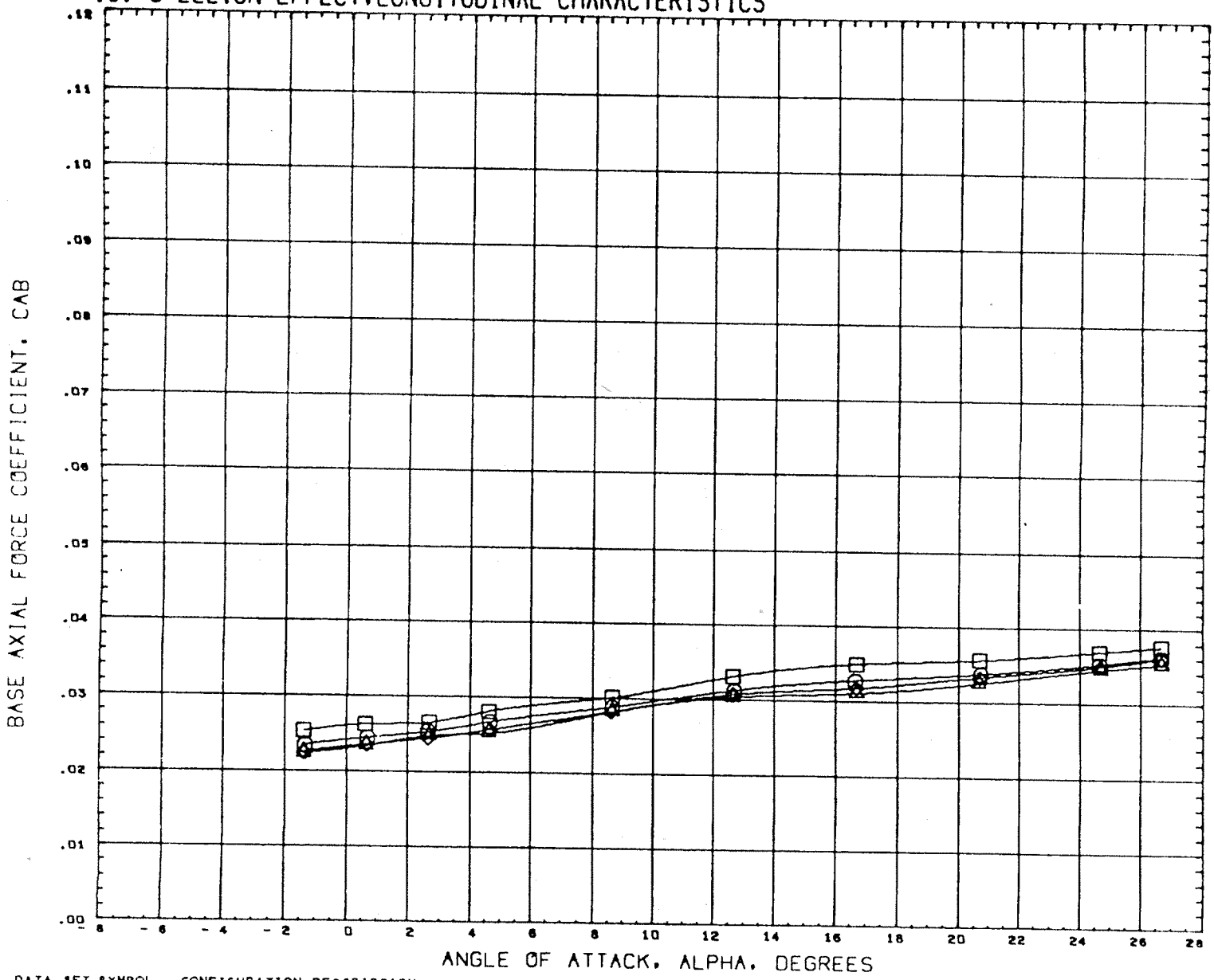
MACH 1.497

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ. IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



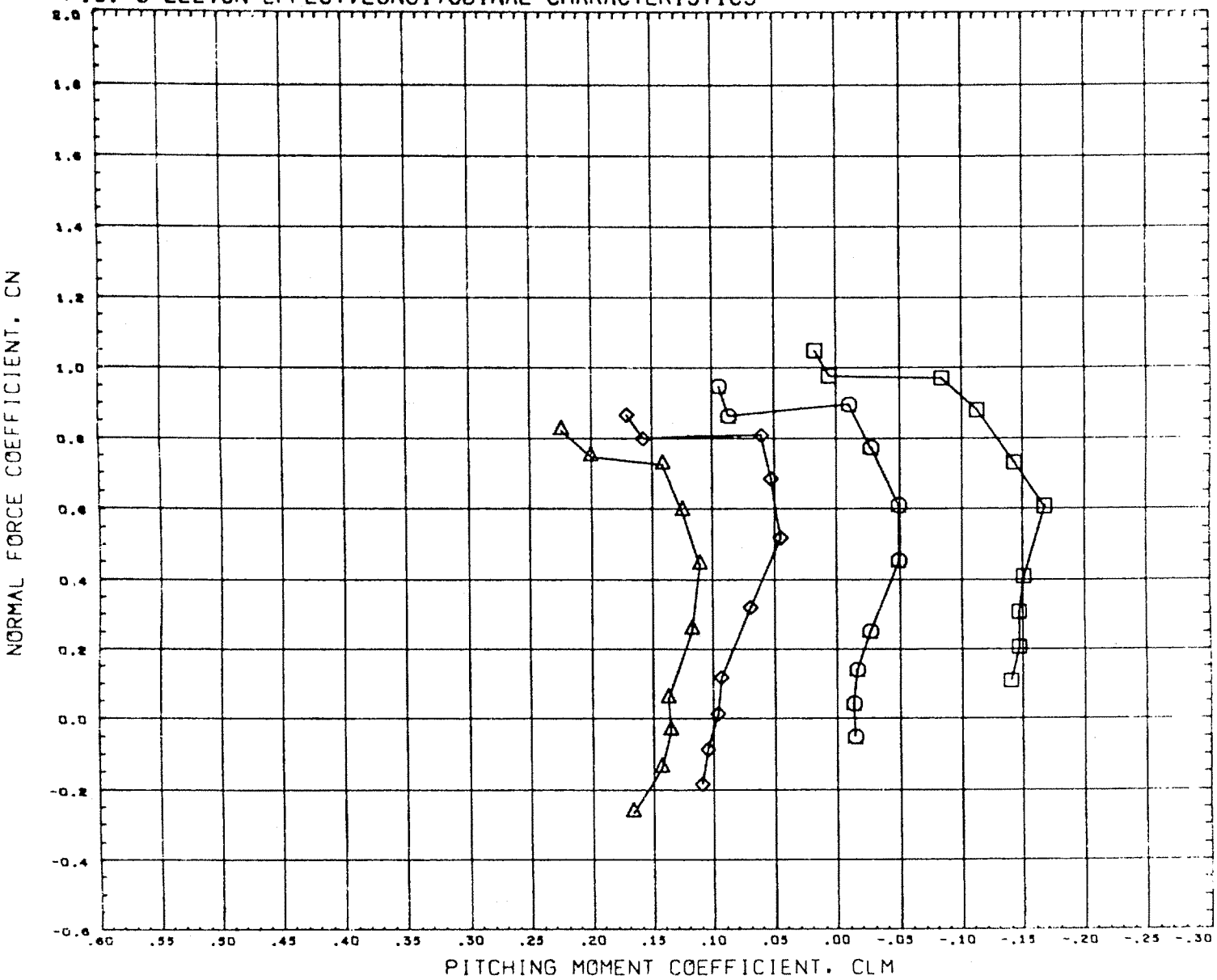
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



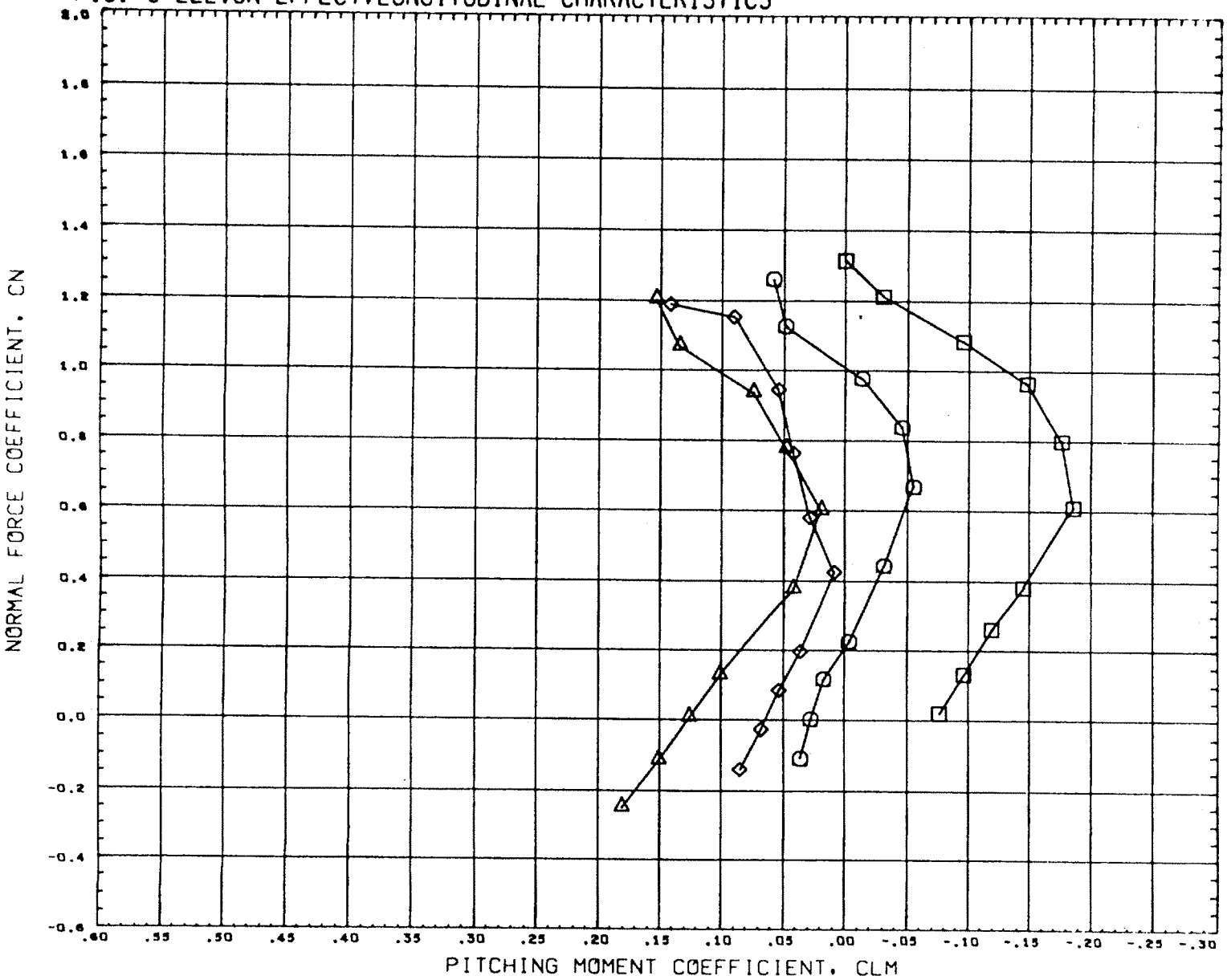
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



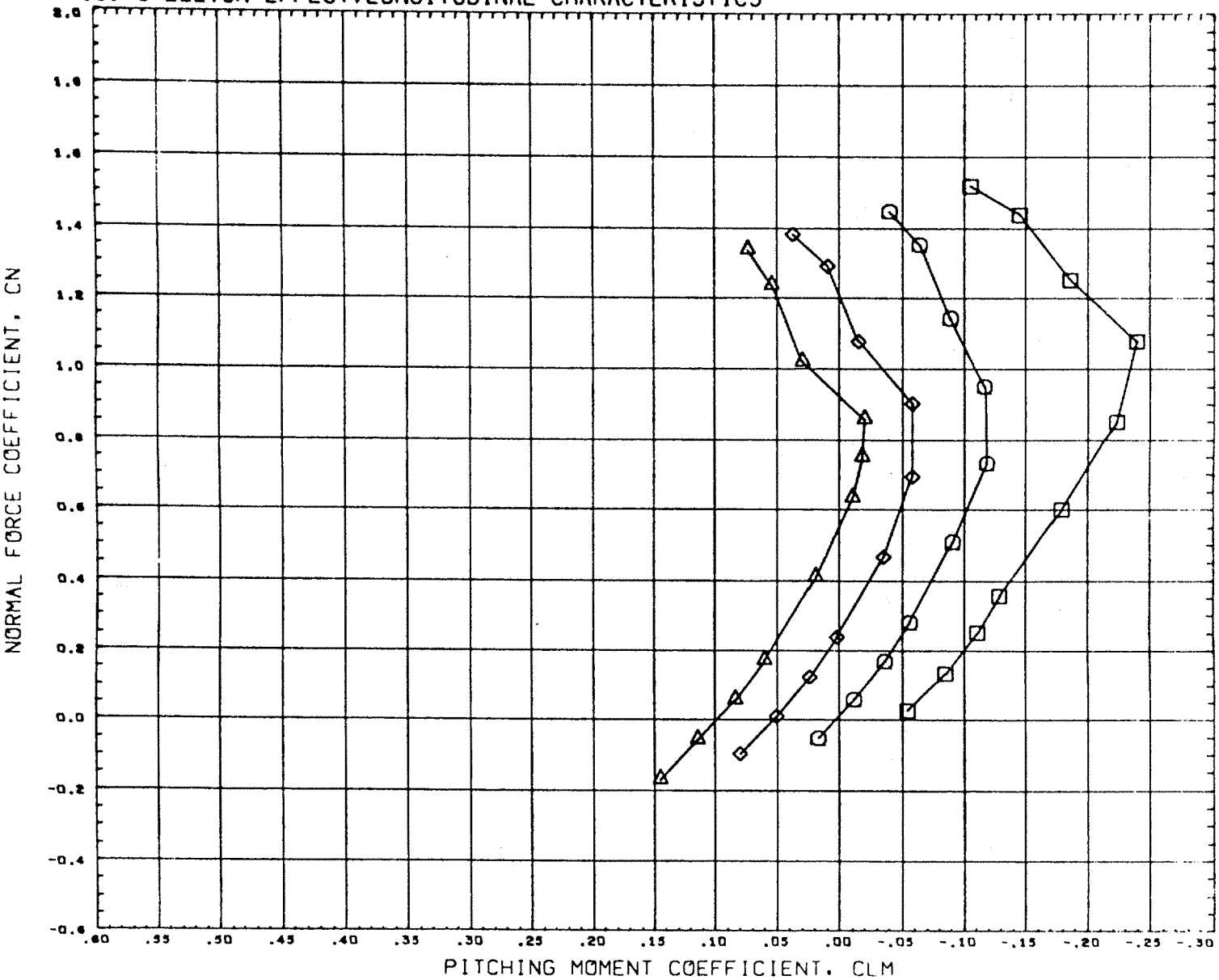
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



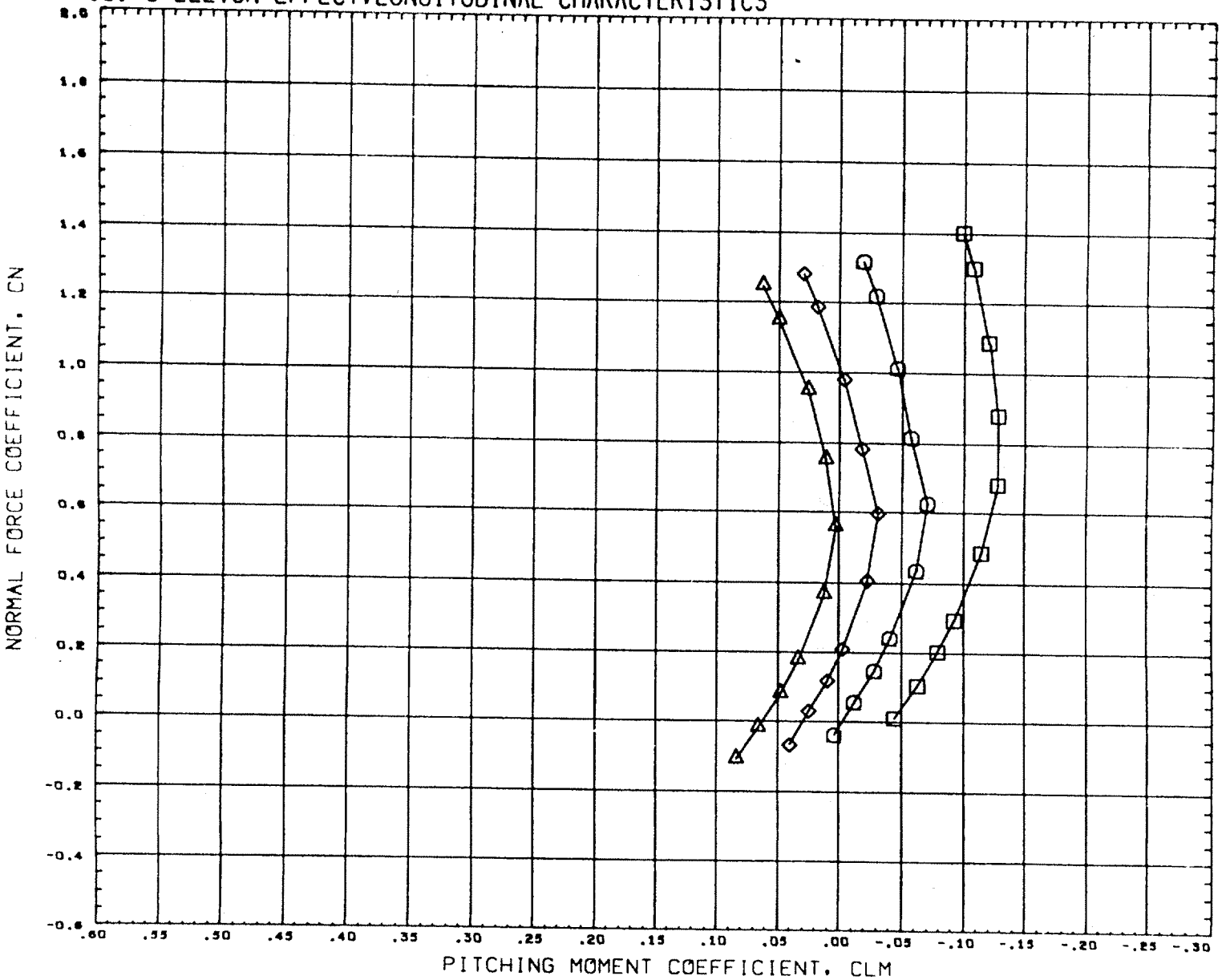
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

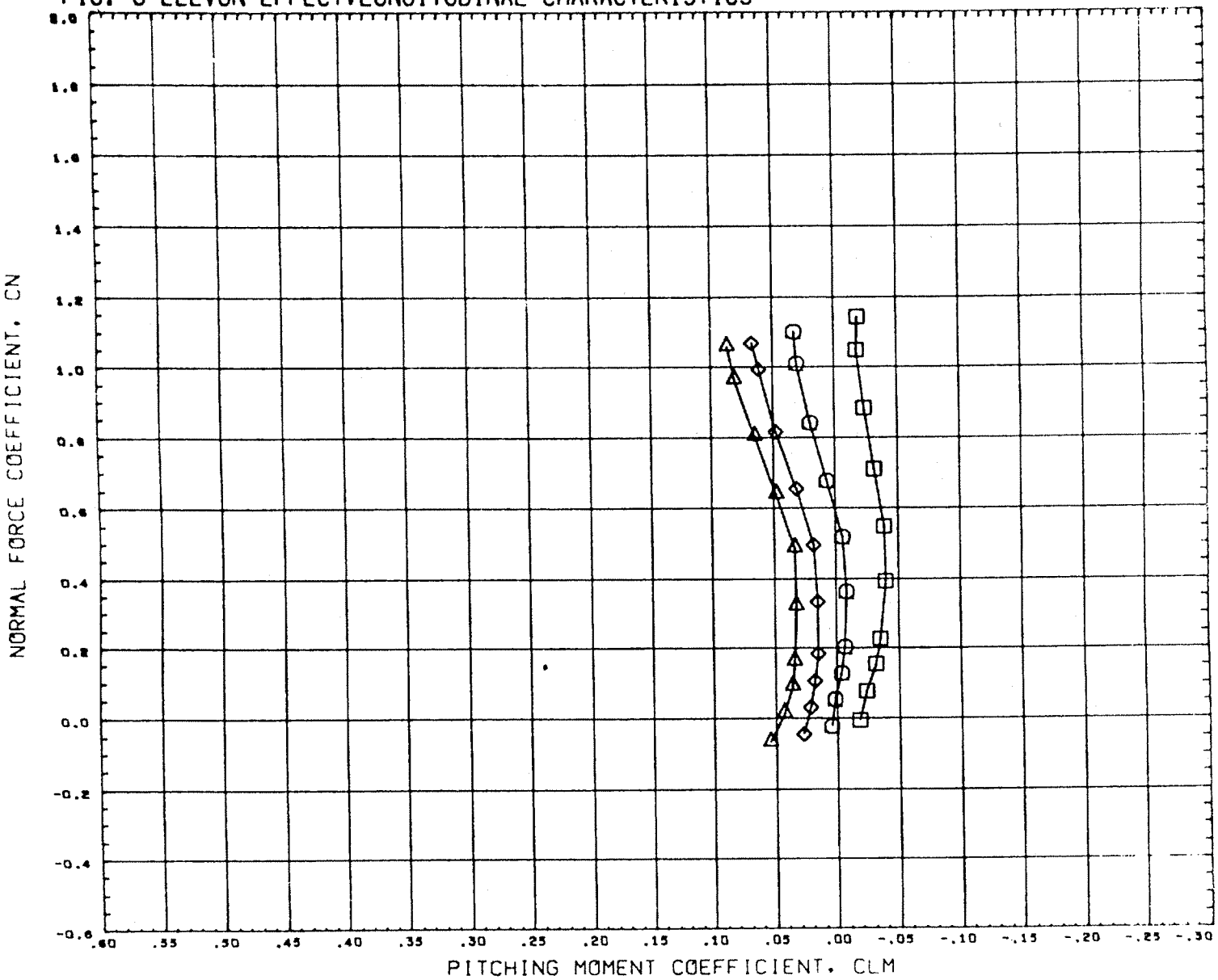
MACH 1.497

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



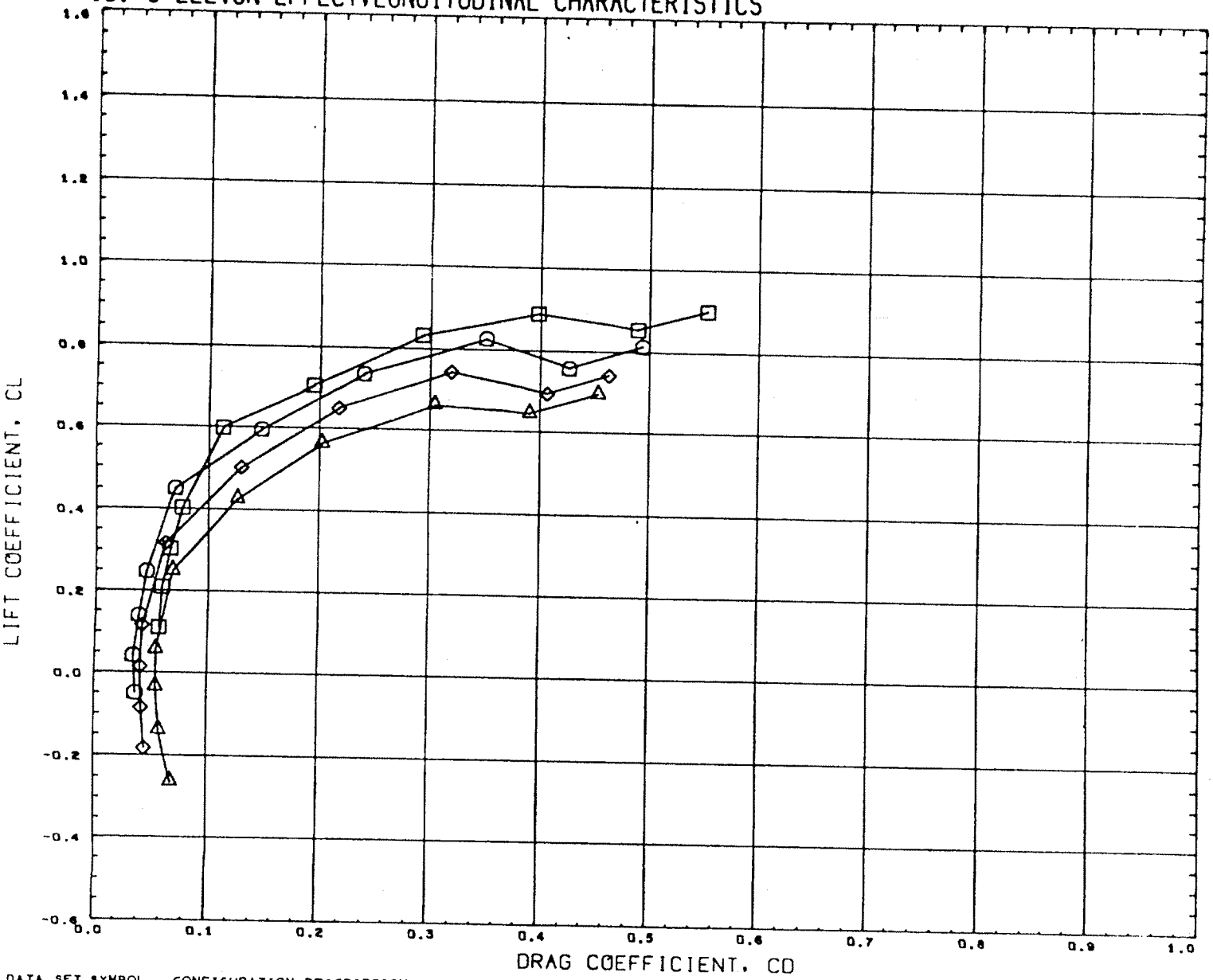
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

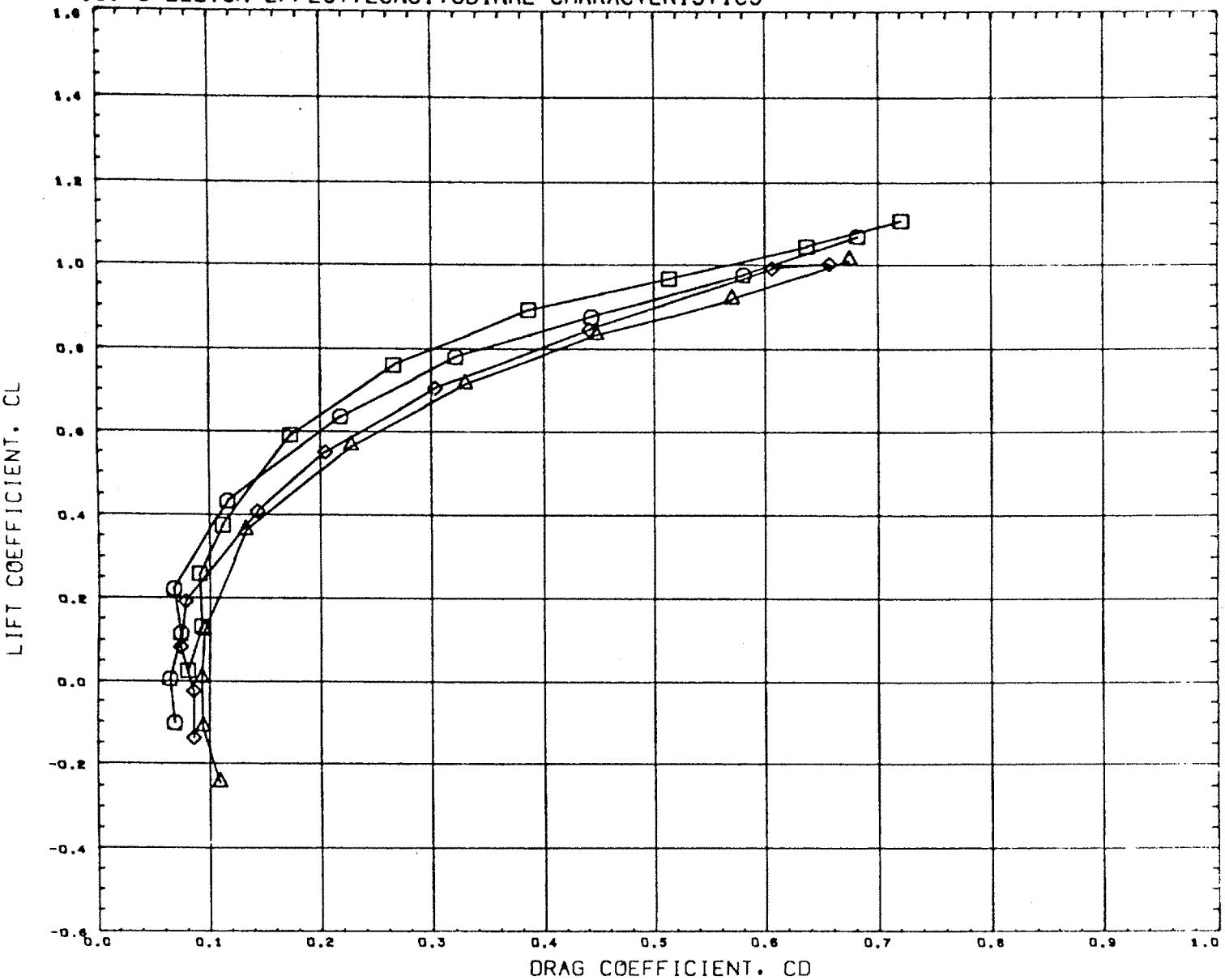
MACH 0.611

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



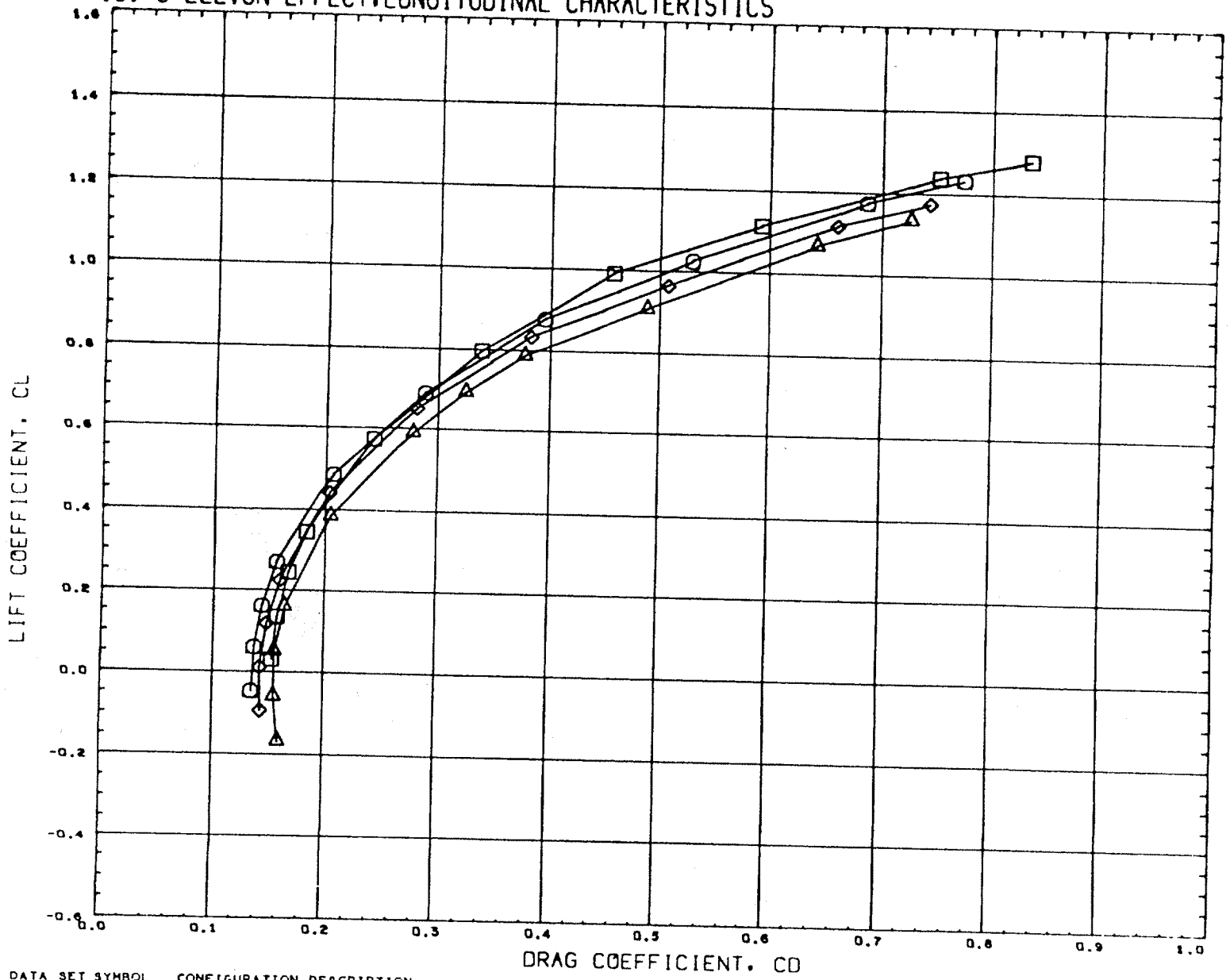
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA255)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

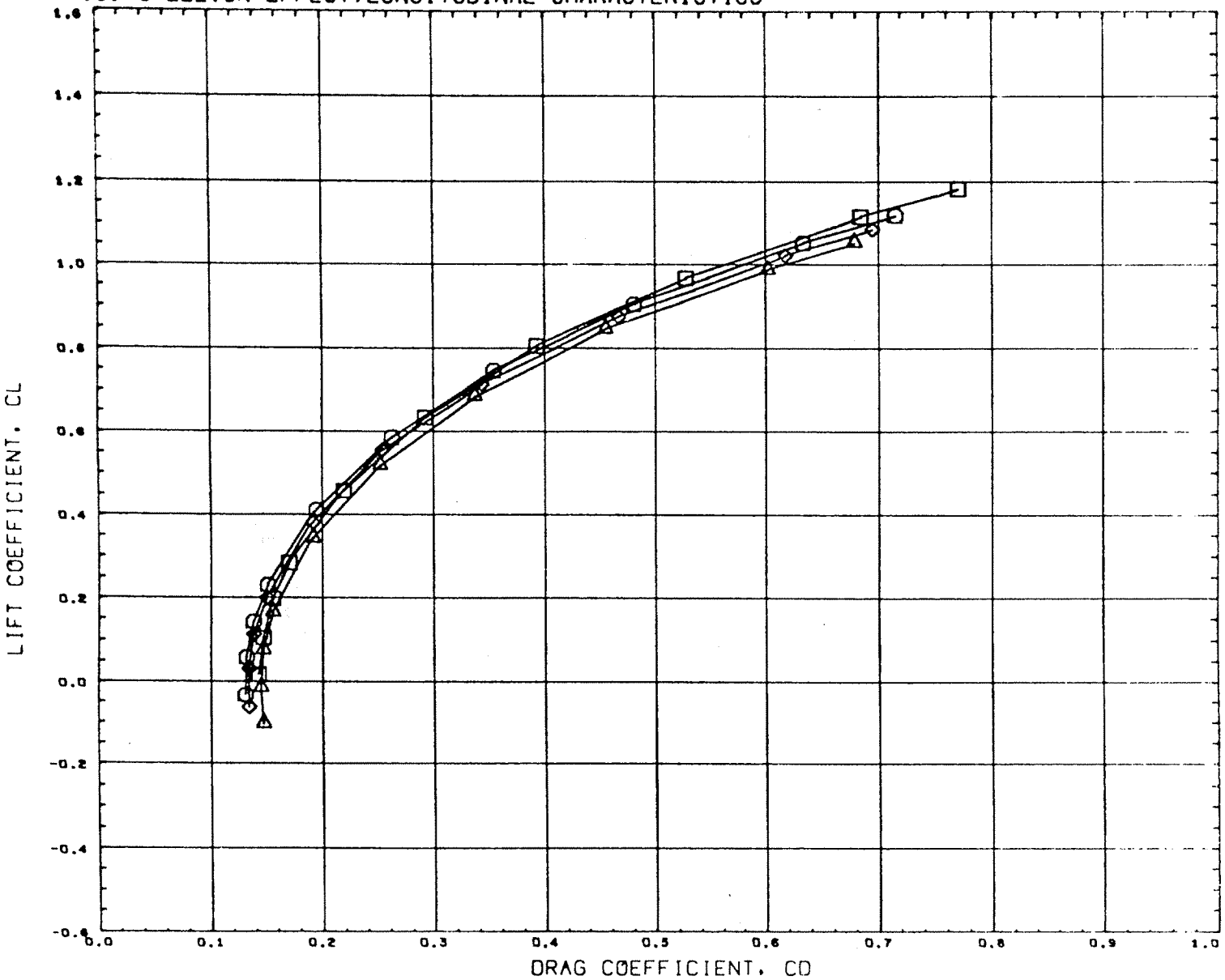
MACH 1.204

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



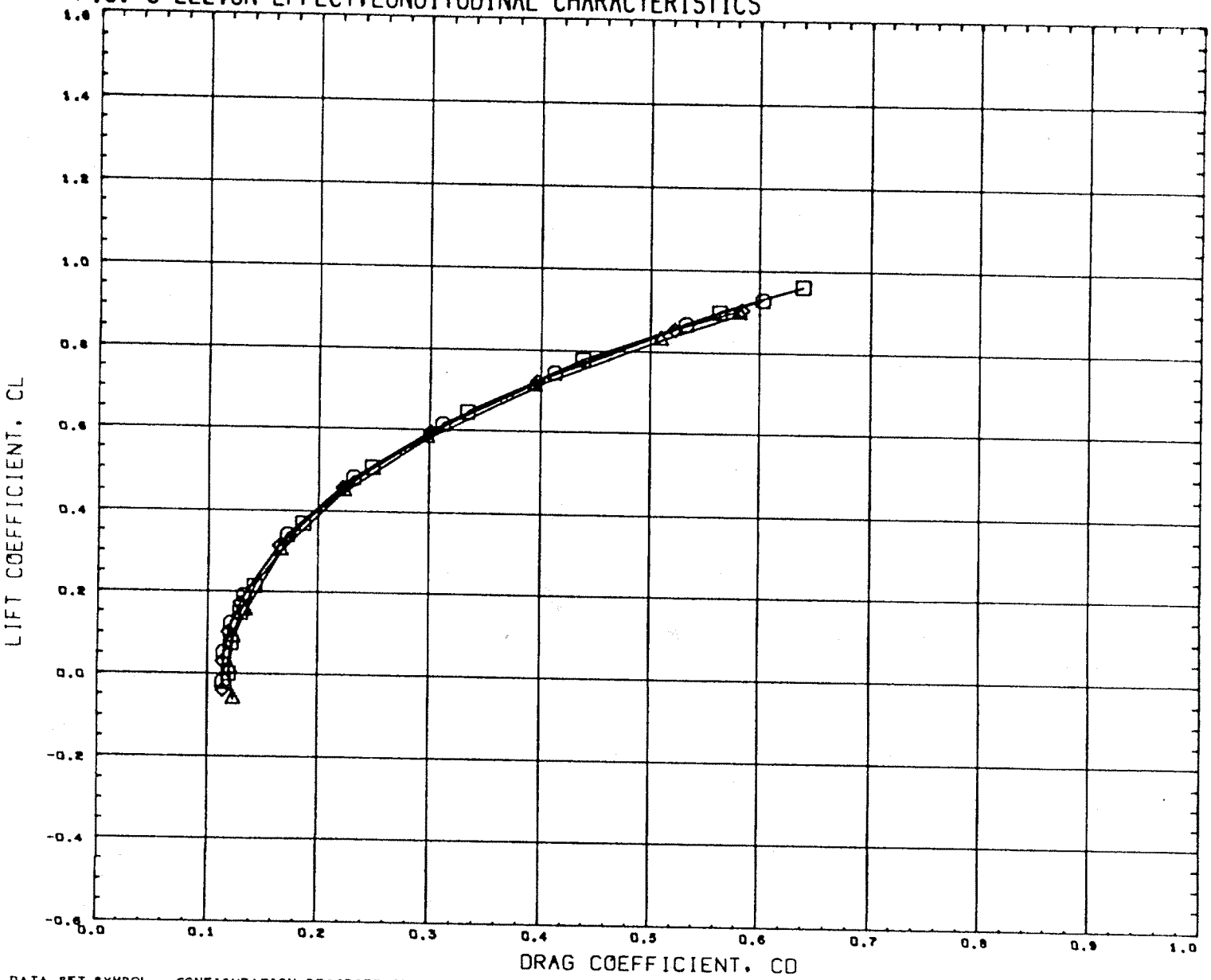
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVTR	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA255)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA253)	◇	AMES 66-563 B22C8W19V10R2	-10.000	0.000
(CBA254)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 6 ELEVON EFFECT, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA253)	△	AMES 66-563 B22C8W19V10R2
(CBA253)	◇	AMES 66-563 B22C8W19V10R2
(CBA254)	□	AMES 66-563 B22C8W19V10R2

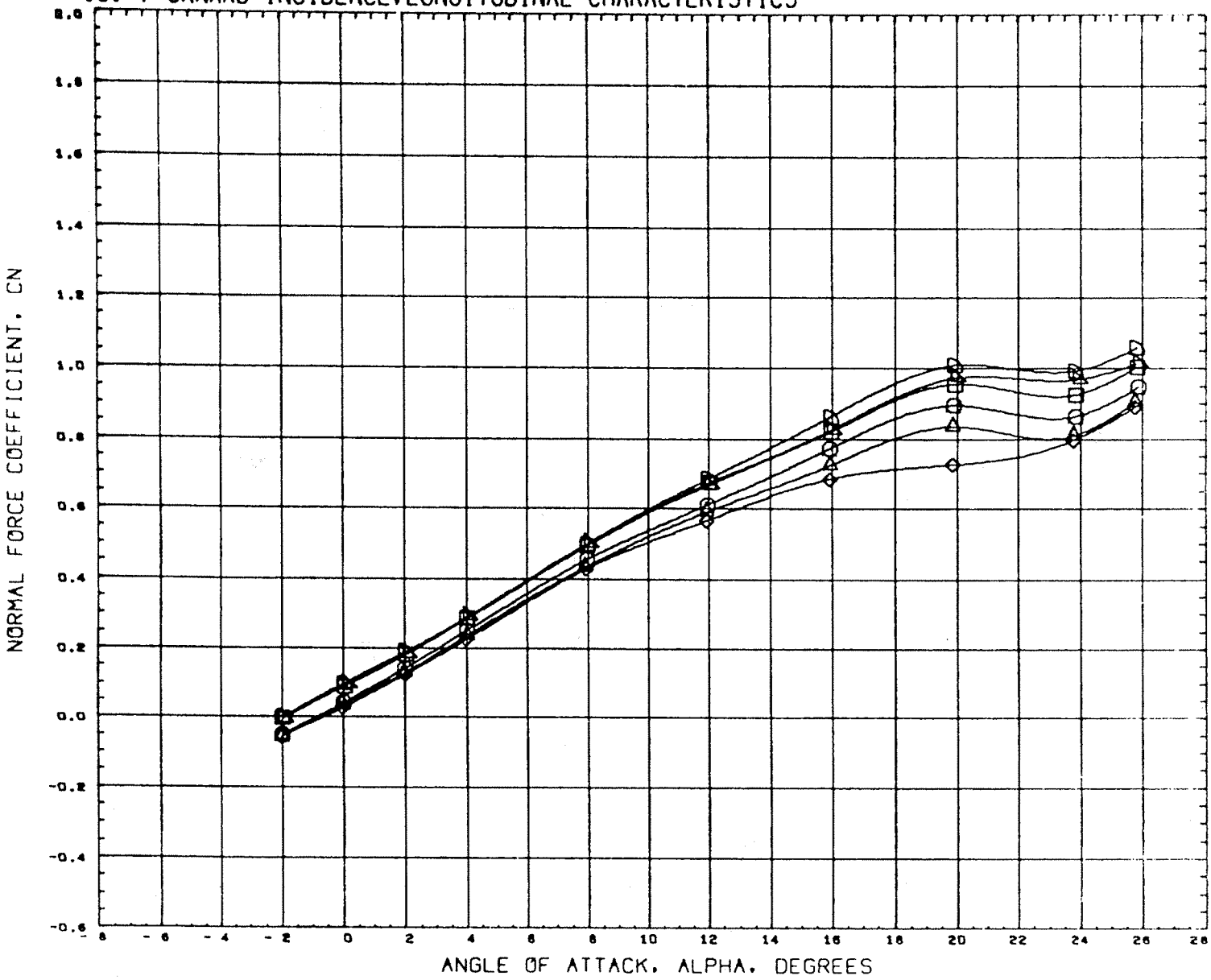
MACH 2.004

ELEVTR	BETA
0.000	0.000
-20.000	0.000
-10.000	0.000
10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

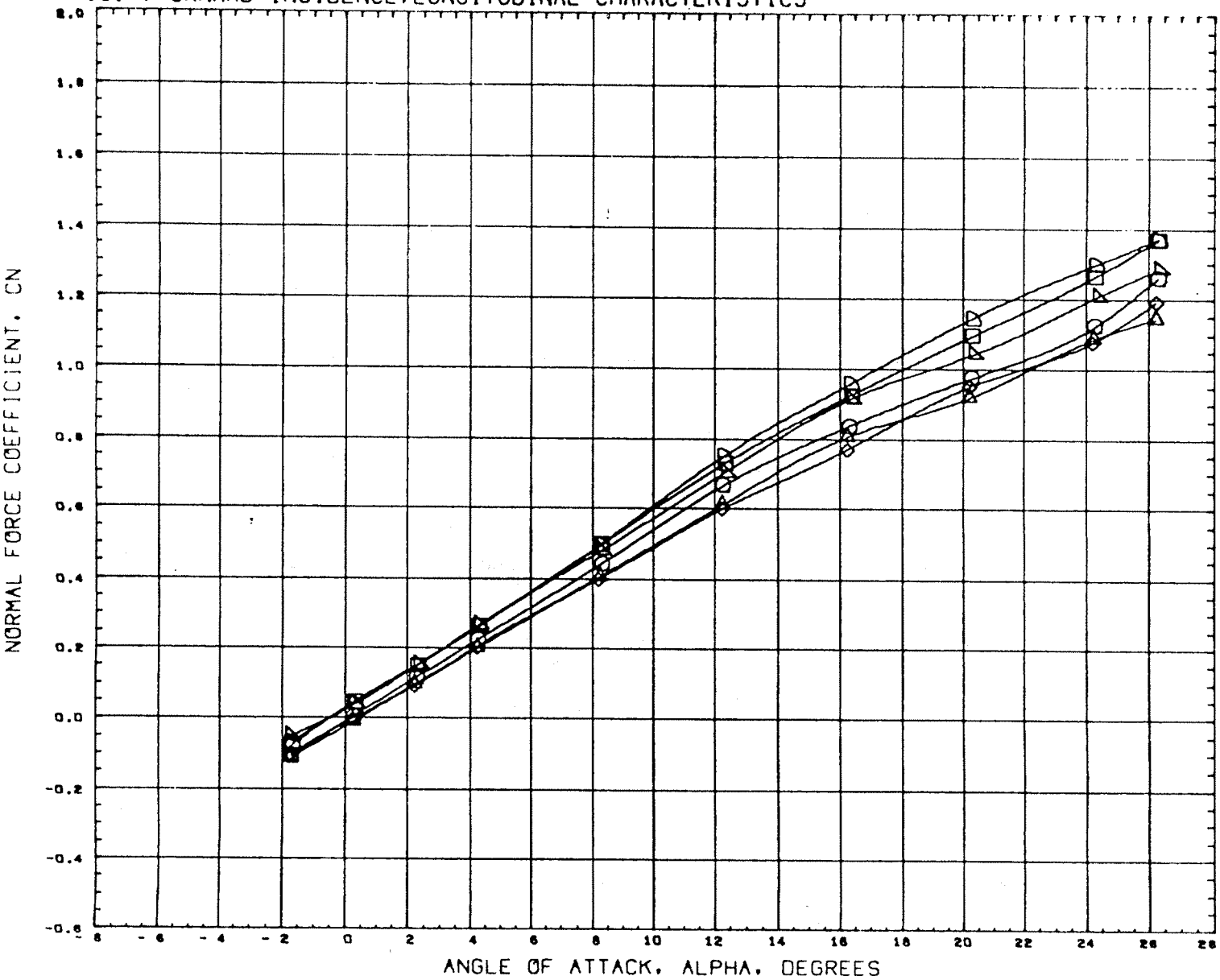


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



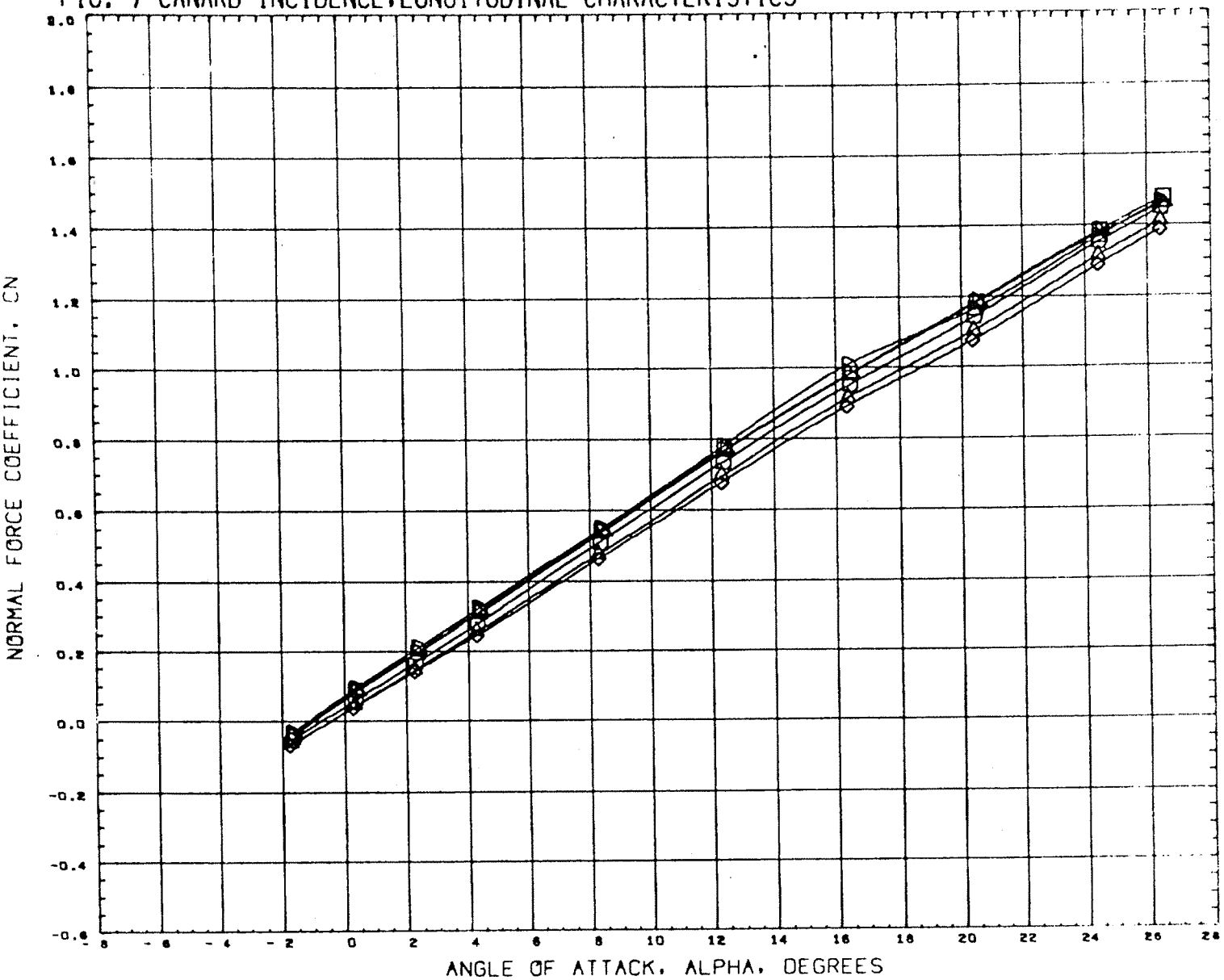
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	⊠	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⊡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⊠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



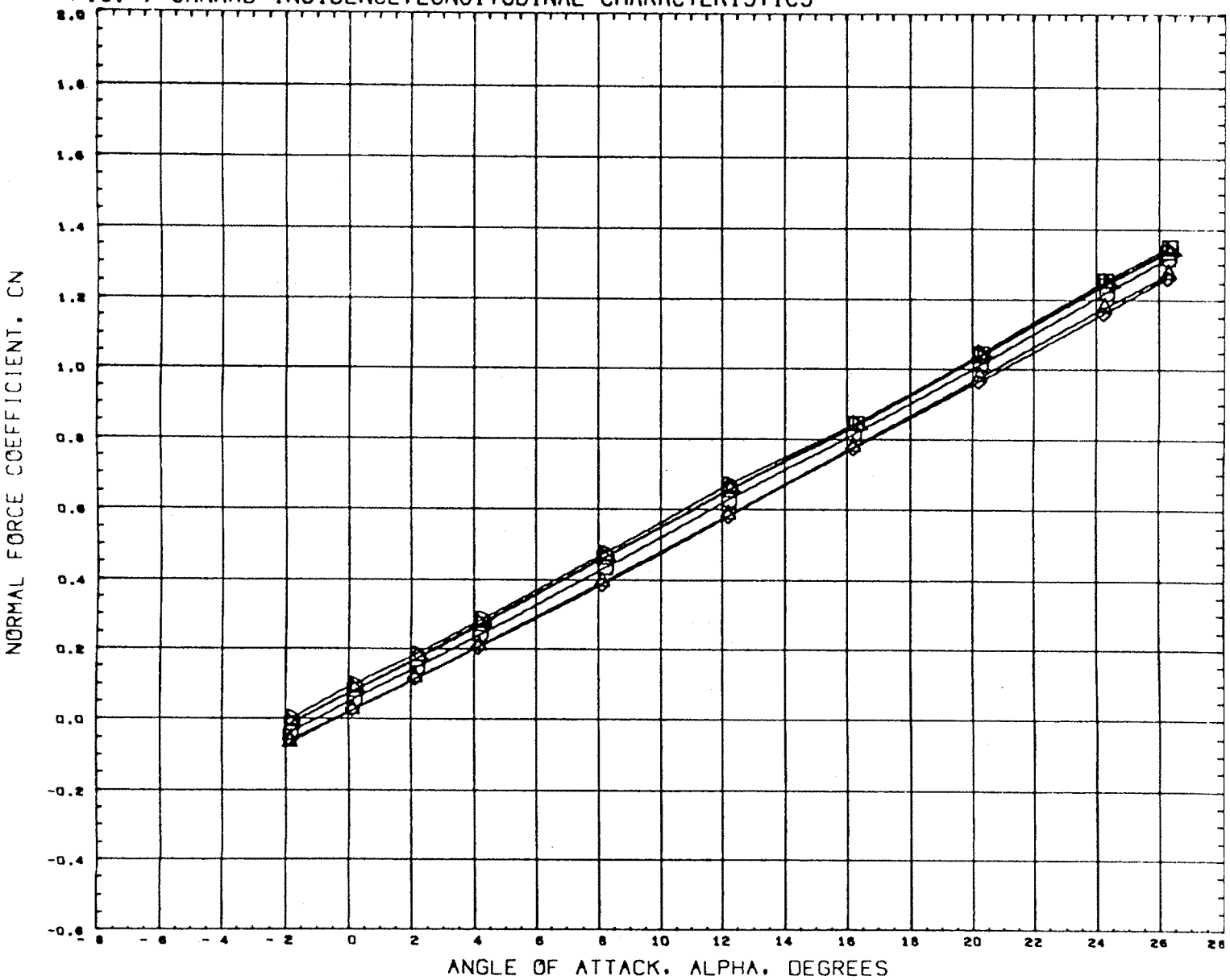
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⊿	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



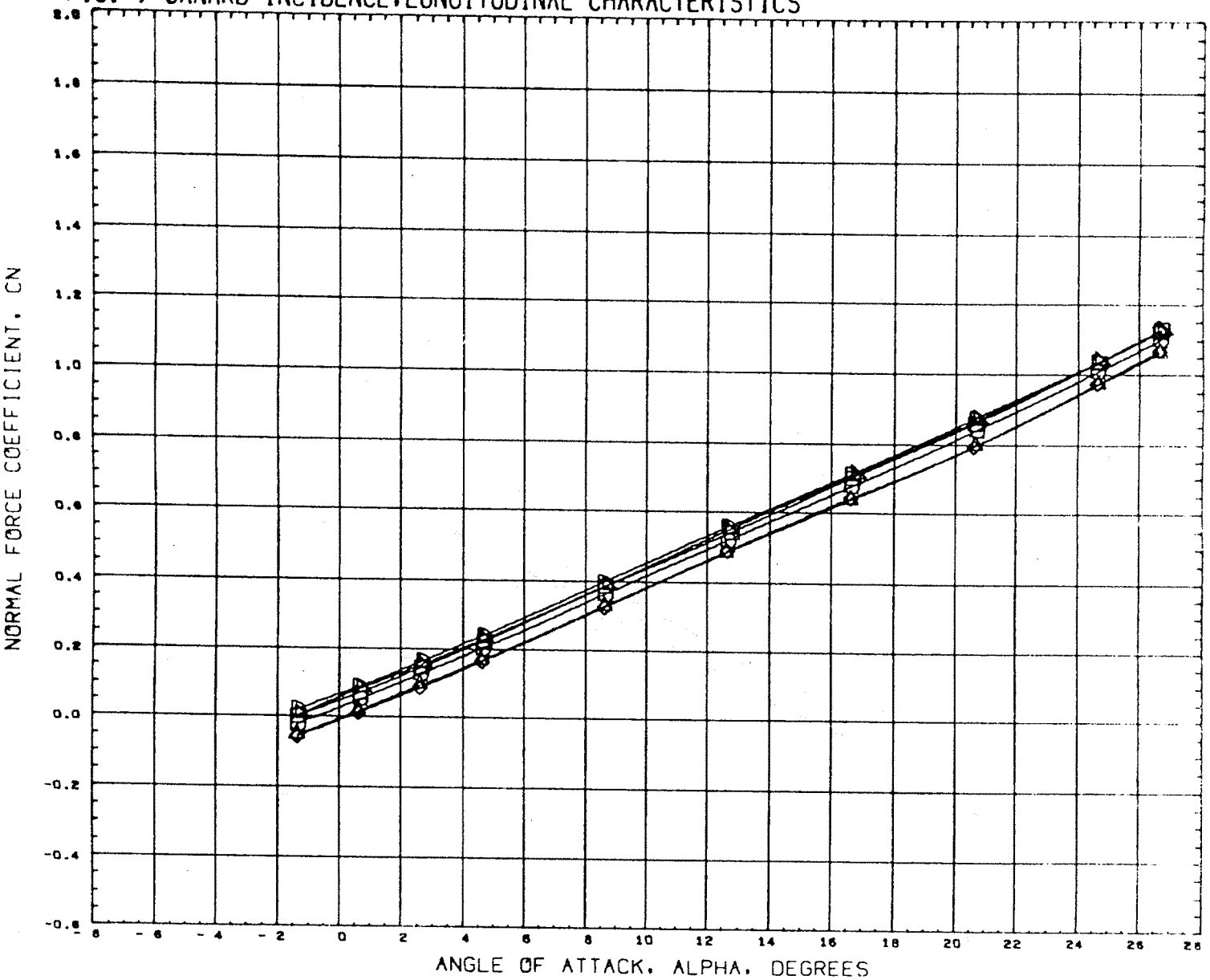
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬠	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◺	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	□	AMES 66-563 B22C8W19V10R2
(CBA25A)	◸	AMES 66-563 B22C8W19V10R2
(CBA257)	▱	AMES 66-563 B22C8W19V10R2

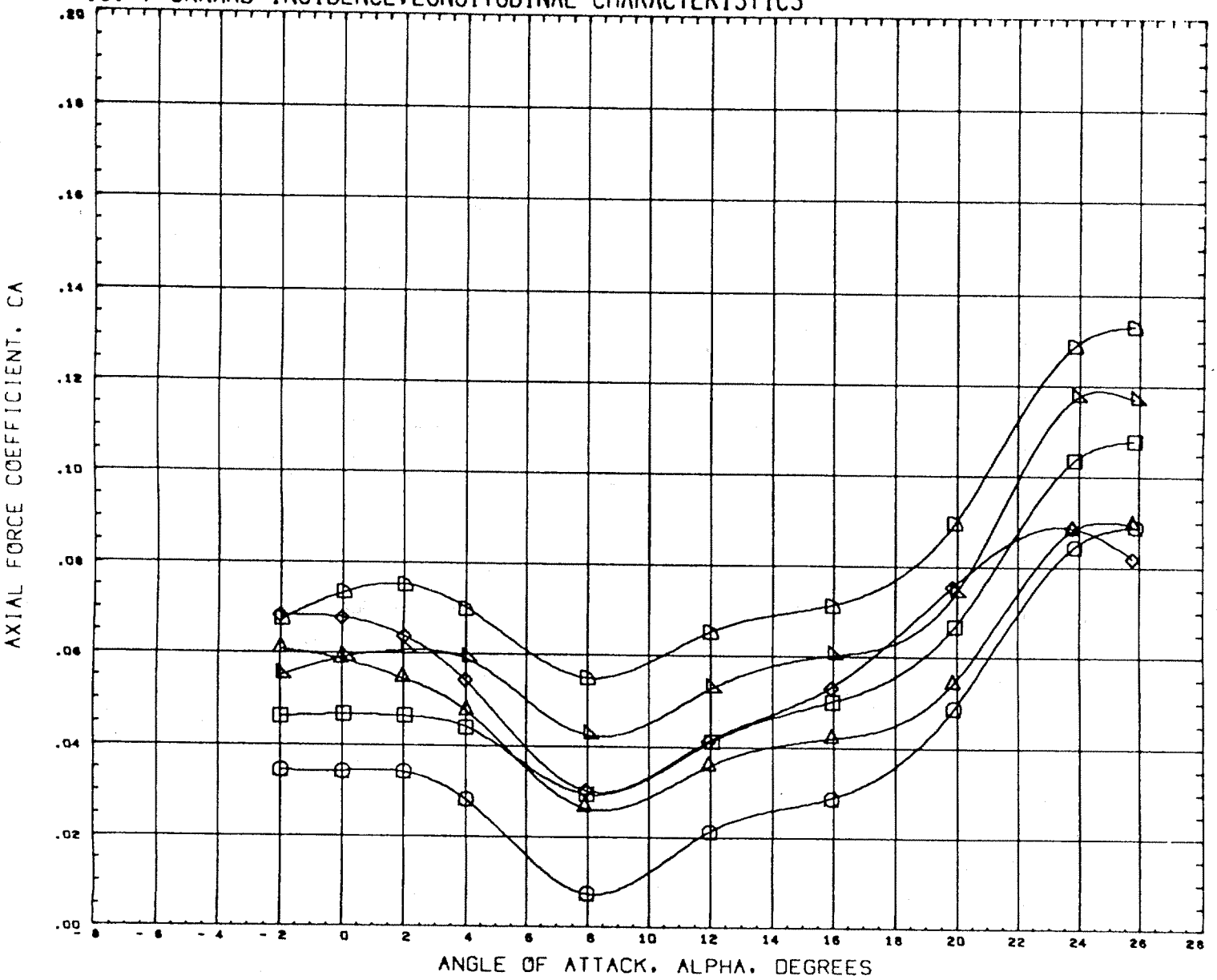
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)		AMES 66-563 B22C8W19V10R2
(CBA251)		AMES 66-563 B22C8W19V10R2
(CBA252)		AMES 66-563 B22C8W19V10R2
(CBA256)		AMES 66-563 B22C8W19V10R2
(CBA25A)		AMES 66-563 B22C8W19V10R2
(CBA257)		AMES 66-563 B22C8W19V10R2

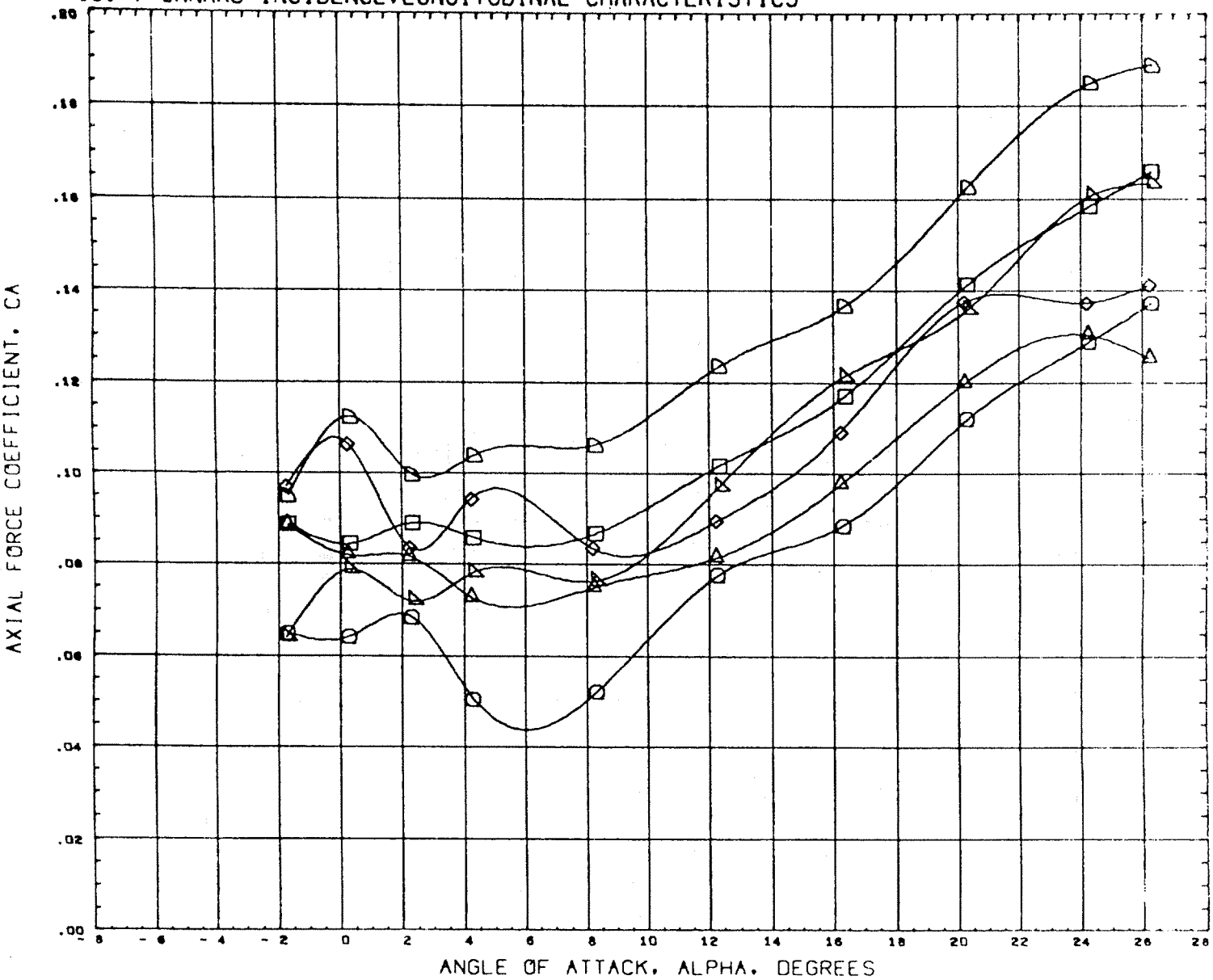
MACH 0.611

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



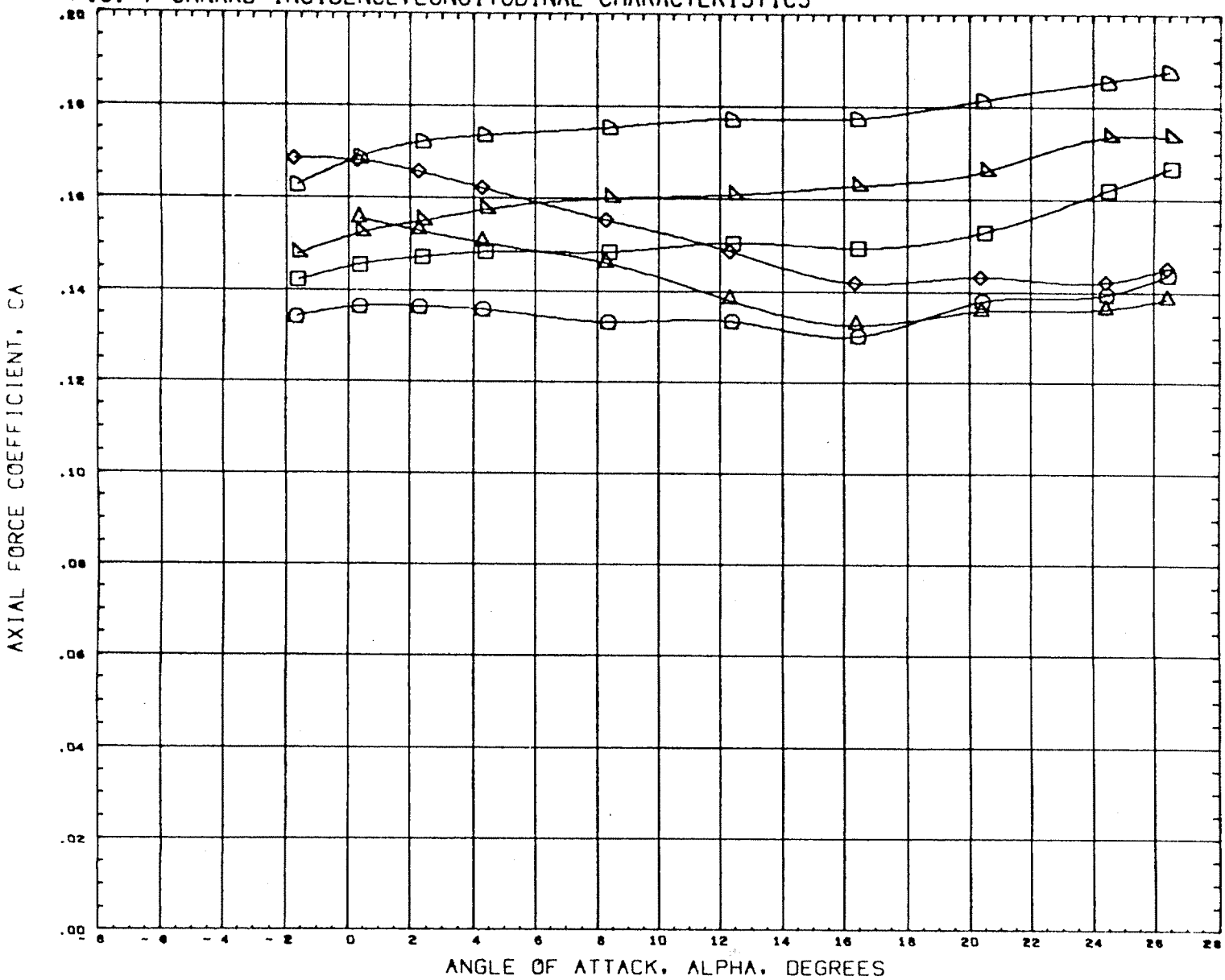
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



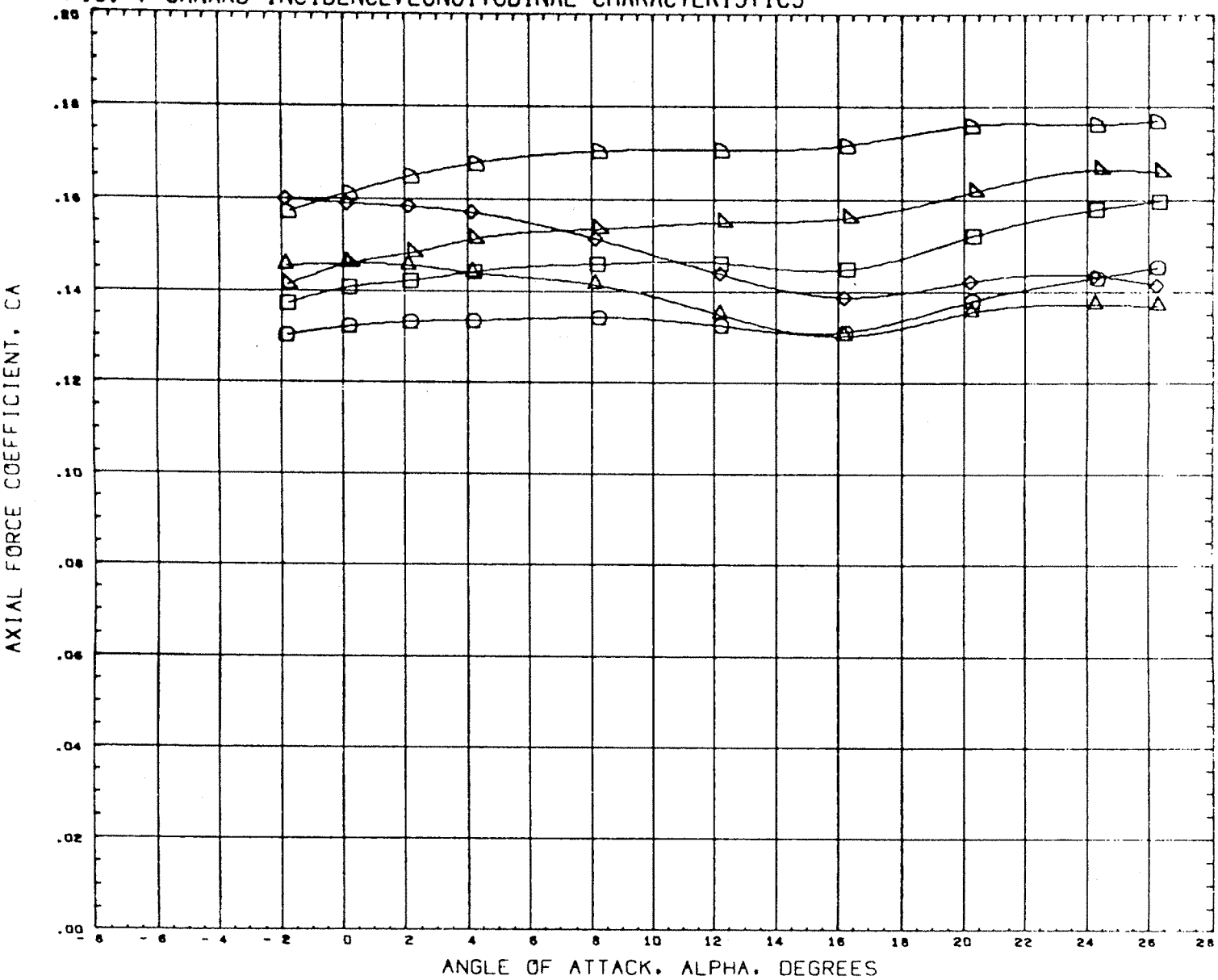
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

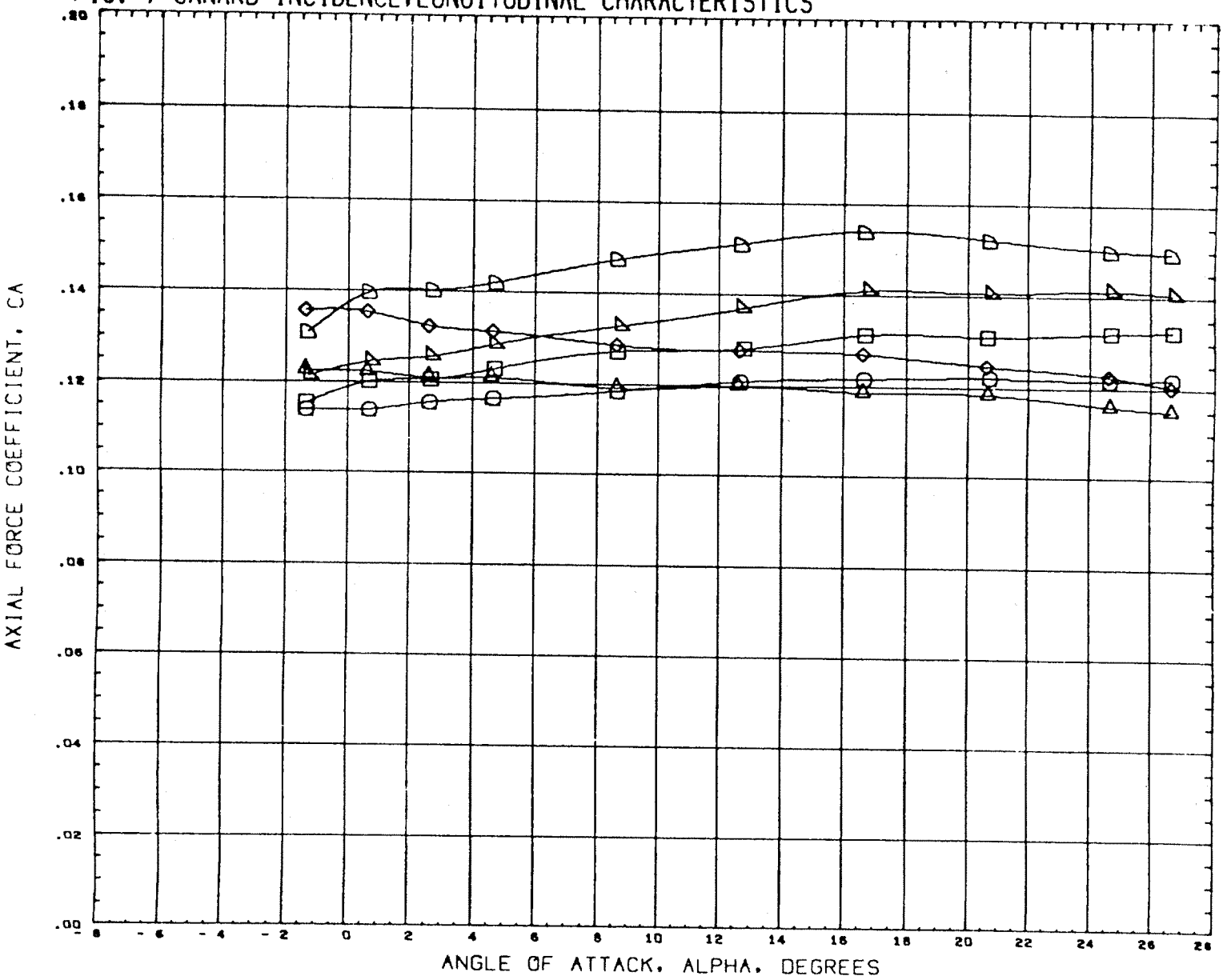


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	⊠	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	□	AMES 66-563 B22C8W19V10R2
(CBA25A)	◪	AMES 66-563 B22C8W19V10R2
(CBA257)	D	AMES 66-563 B22C8W19V10R2

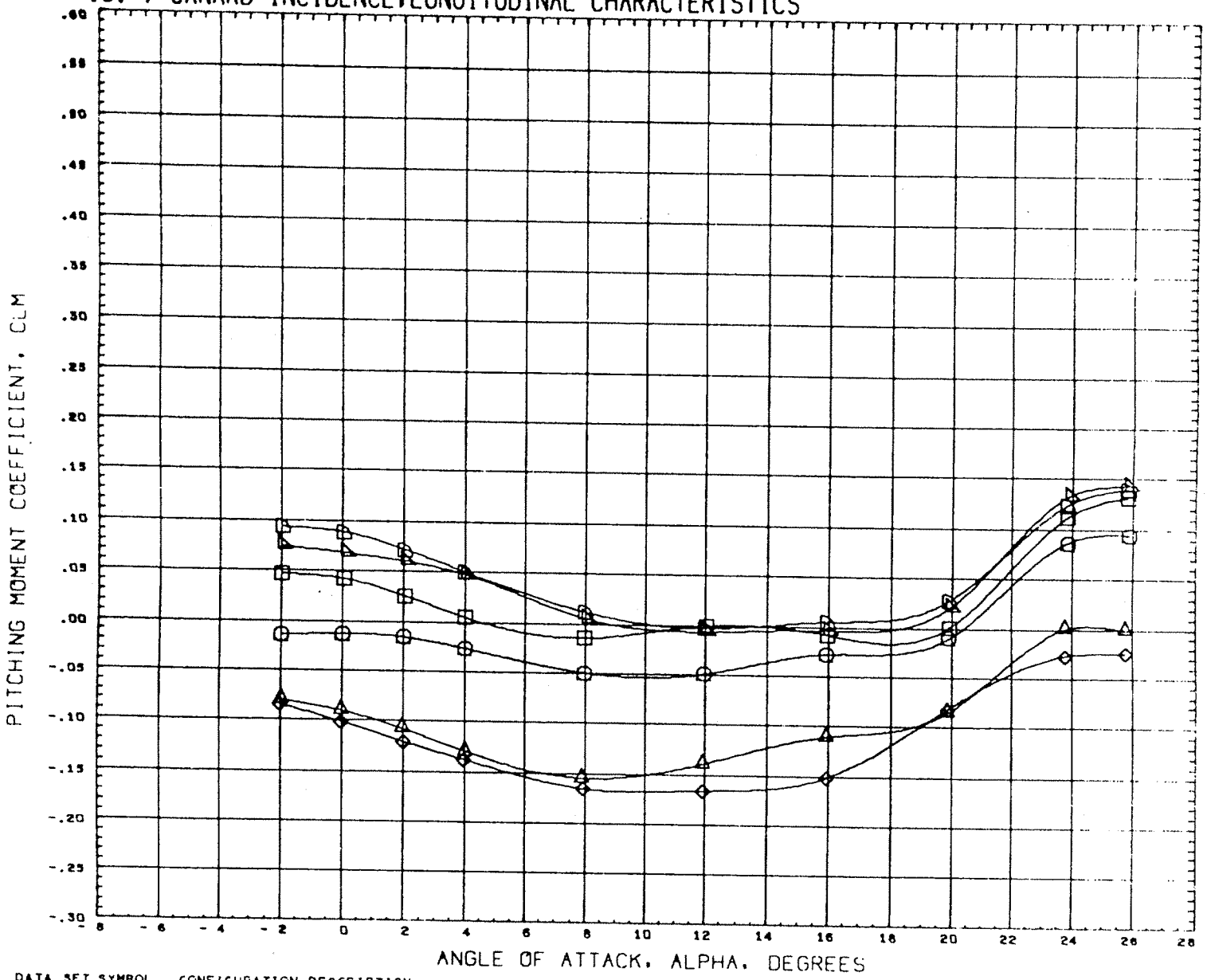
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2
(CBA25A)	⬠	AMES 66-563 B22C8W19V10R2
(CBA257)	⬠	AMES 66-563 B22C8W19V10R2

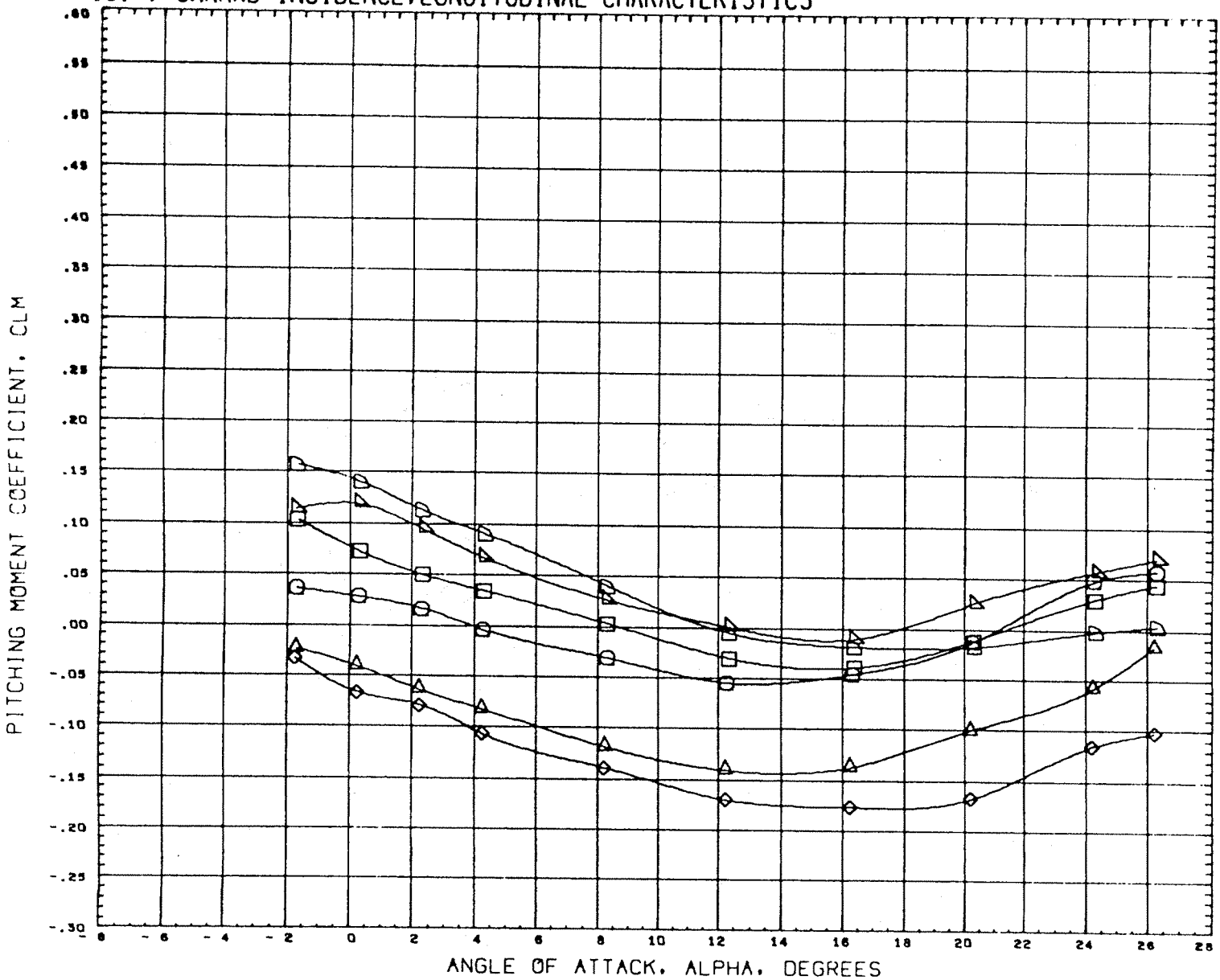
MACH 0.611

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



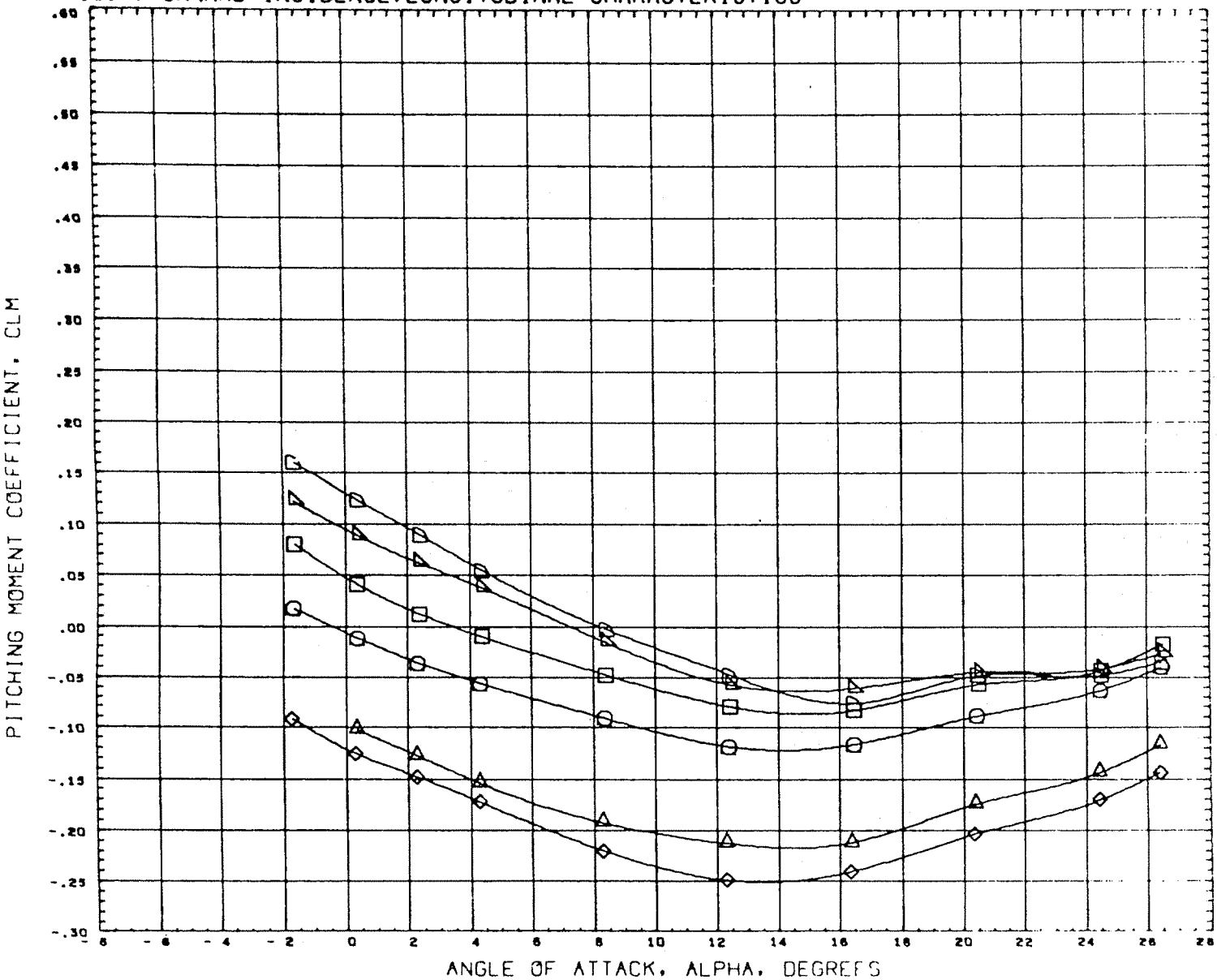
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

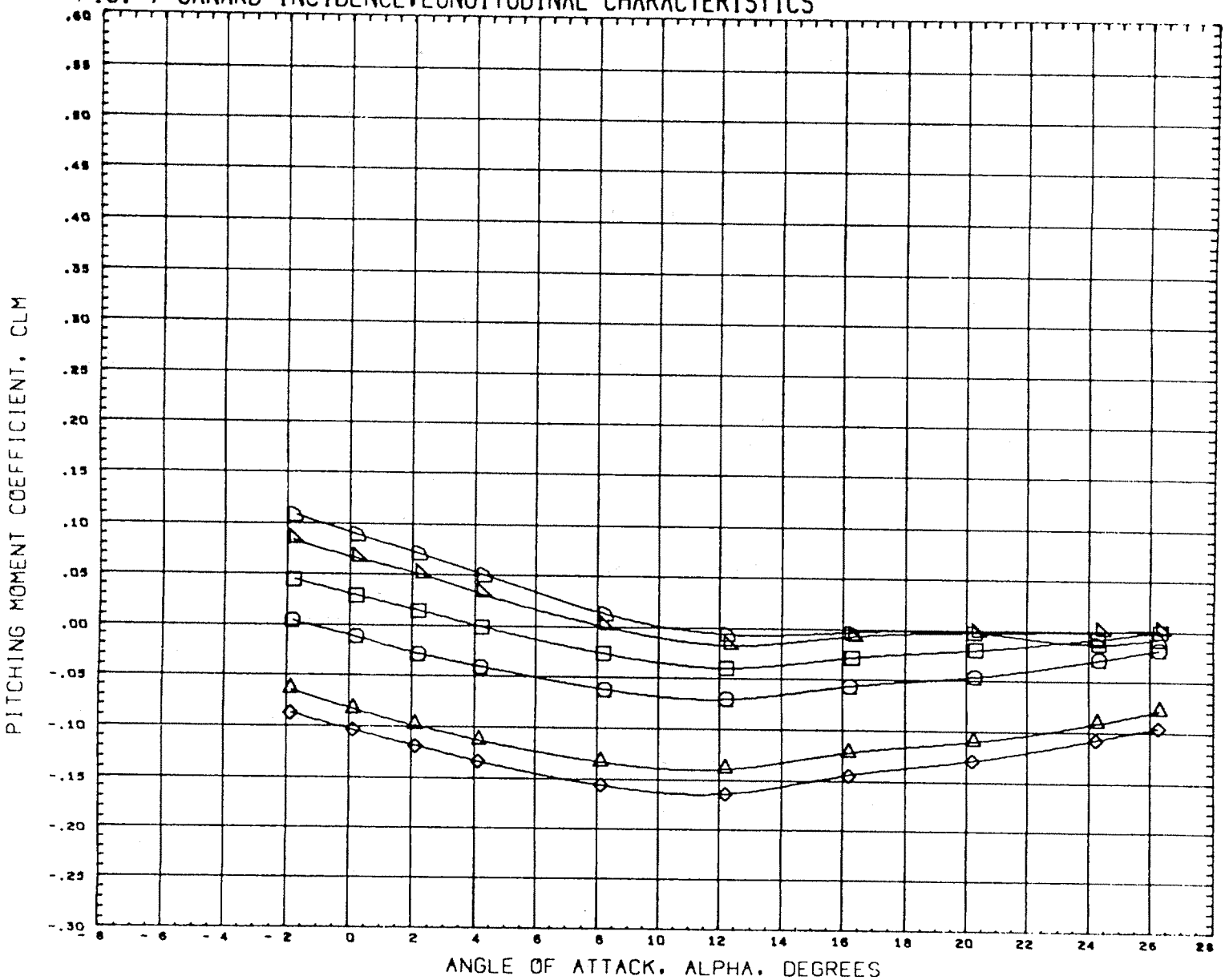


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	□	AMES 66-563 B22C8W19V10R2
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2
(CBA257)	D	AMES 66-563 B22C8W19V10R2

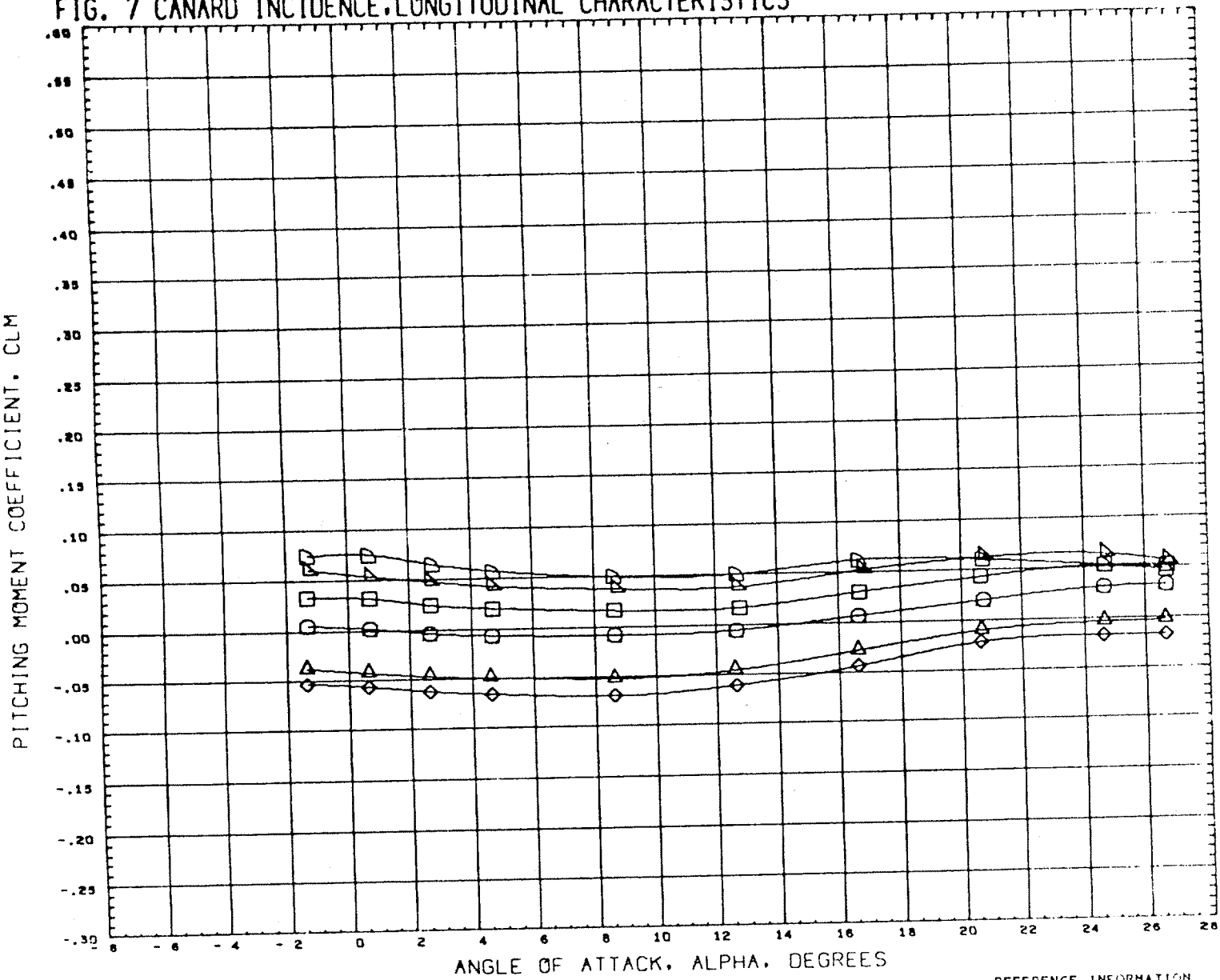
MACH 1.497

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)		AMES 66-563 B22C8W19V10R2
(CBA251)		AMES 66-563 B22C8W19V10R2
(CBA252)		AMES 66-563 B22C8W19V10R2
(CBA256)		AMES 66-563 B22C8W19V10R2
(CBA25A)		AMES 66-563 B22C8W19V10R2
(CBA257)		AMES 66-563 B22C8W19V10R2

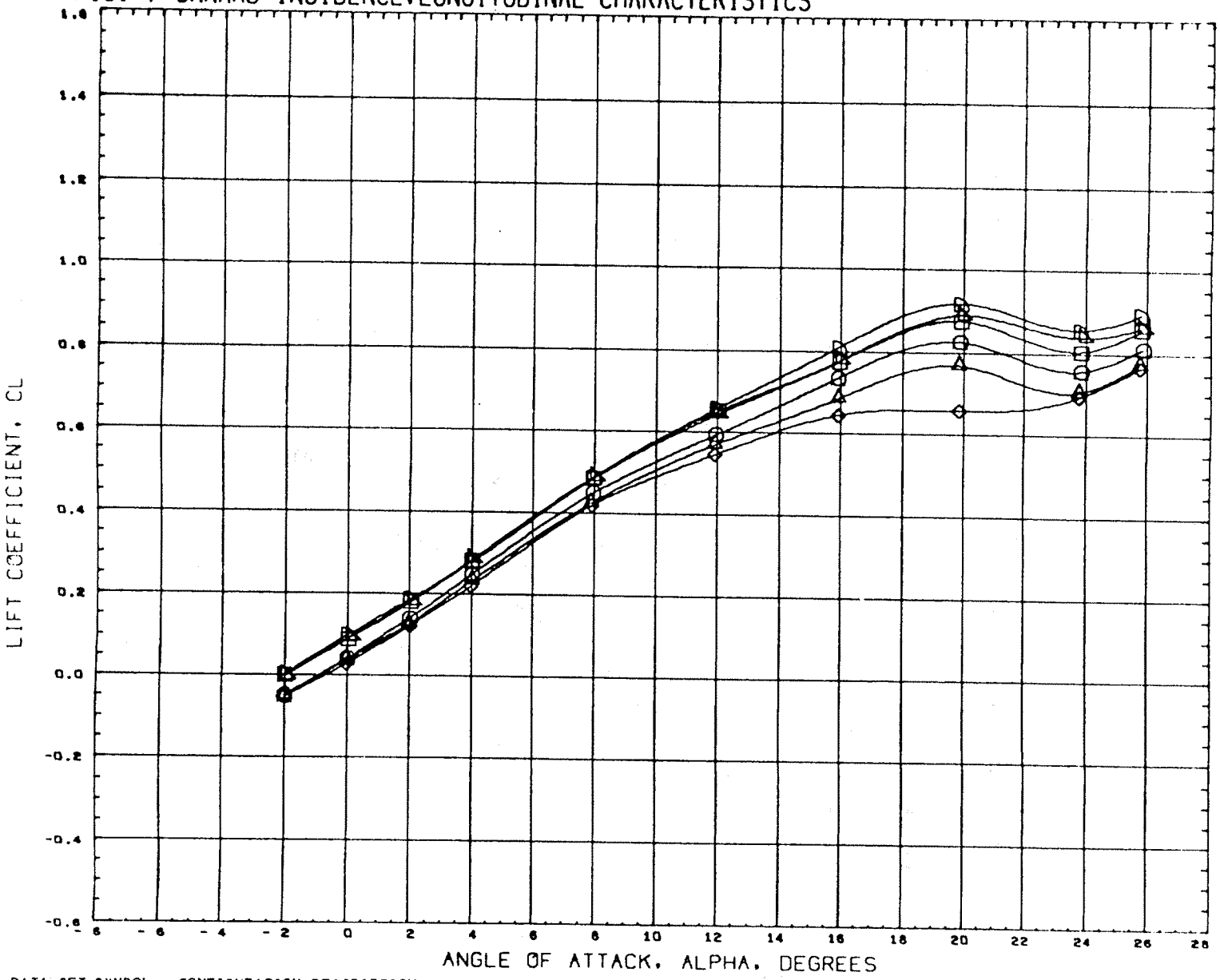
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE.LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	⊗	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	▽	AMES 66-563 B22C8W19V10R2
(CBA25A)	▷	AMES 66-563 B22C8W19V10R2
(CBA257)	D	AMES 66-563 B22C8W19V10R2

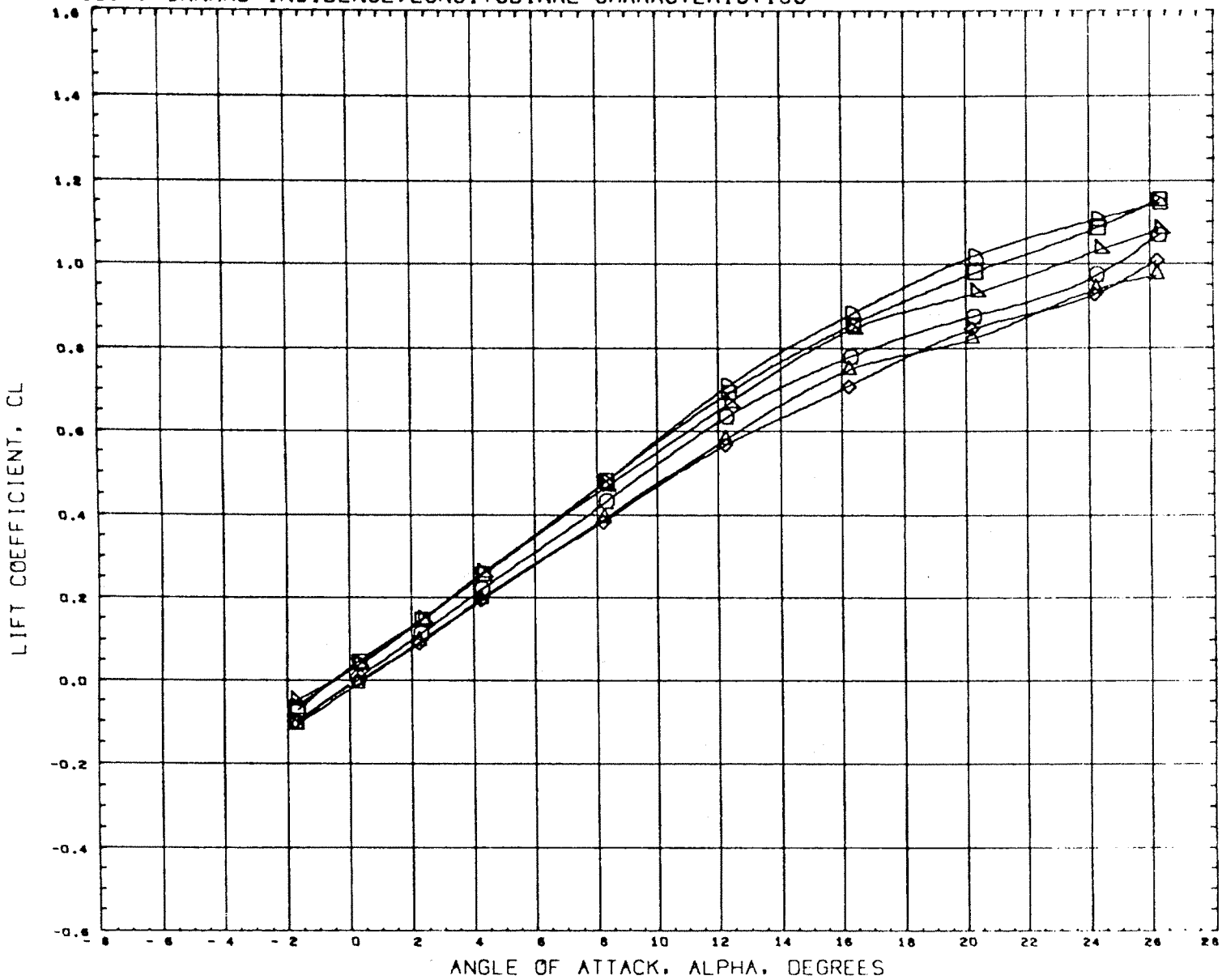
MACH 0.811

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

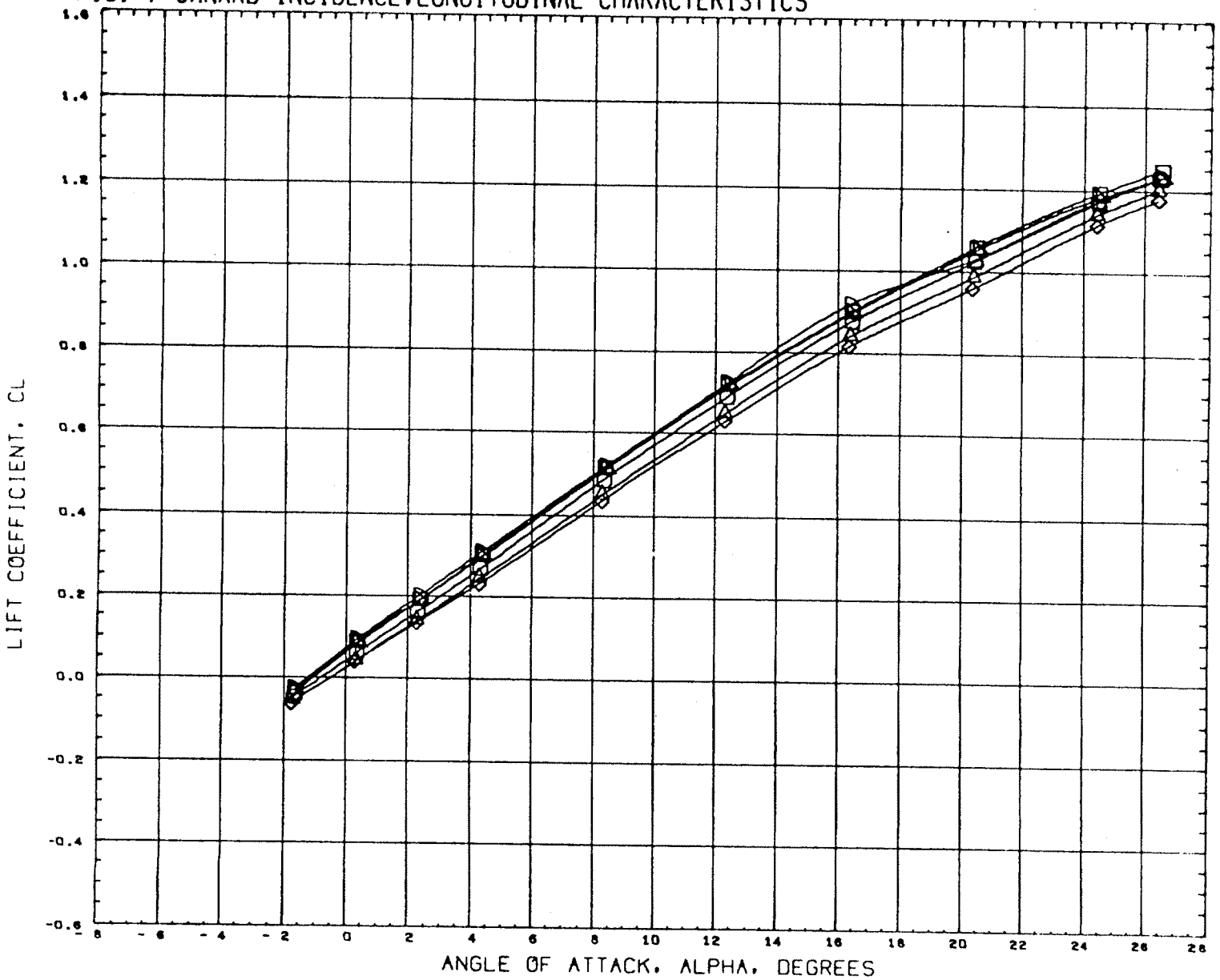


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⊠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	⬠	AMES 66-563 B22C8W19V10R2
(CBA25A)	◪	AMES 66-563 B22C8W19V10R2
(CBA257)	⬠	AMES 66-563 B22C8W19V10R2

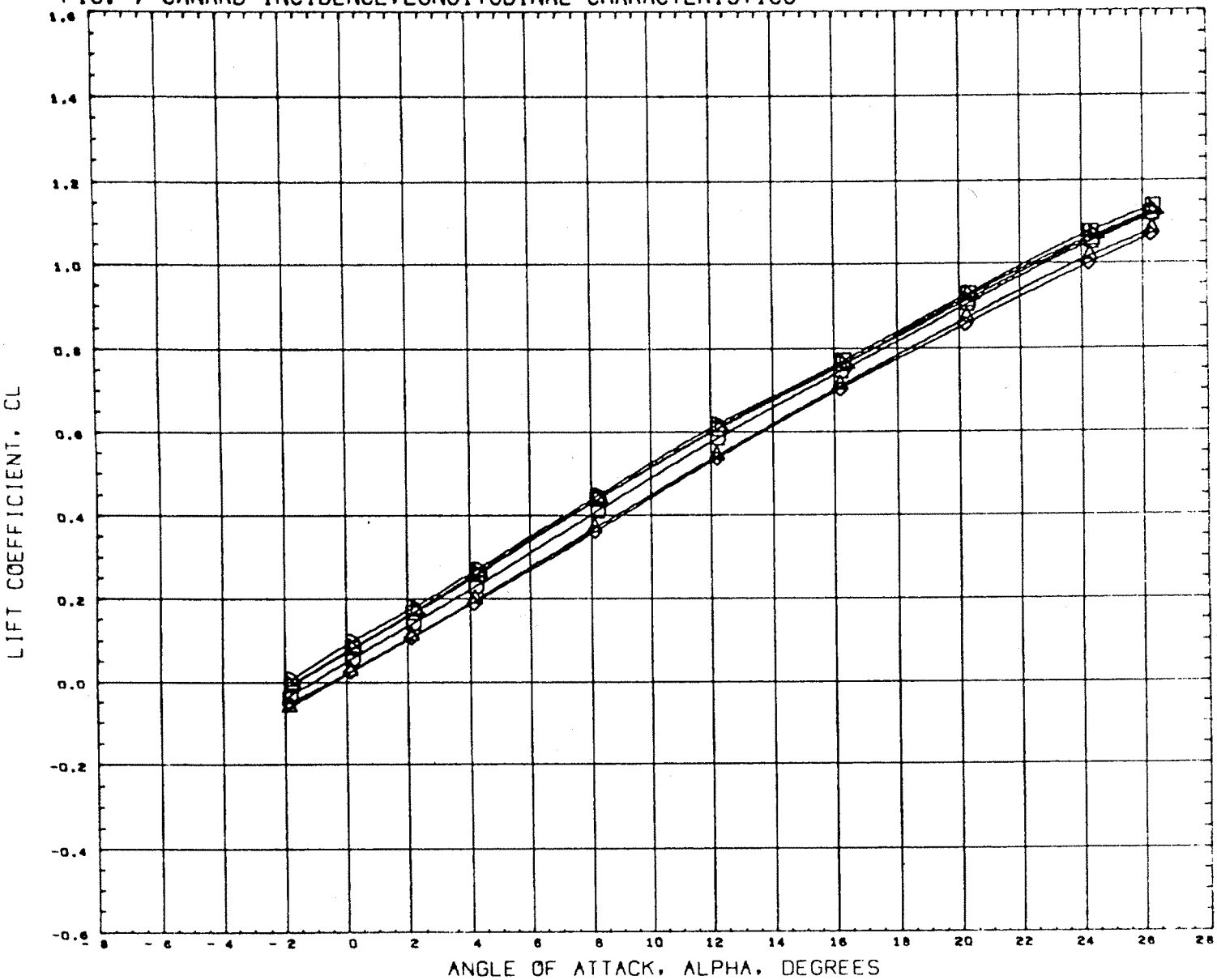
MACH 1.204

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



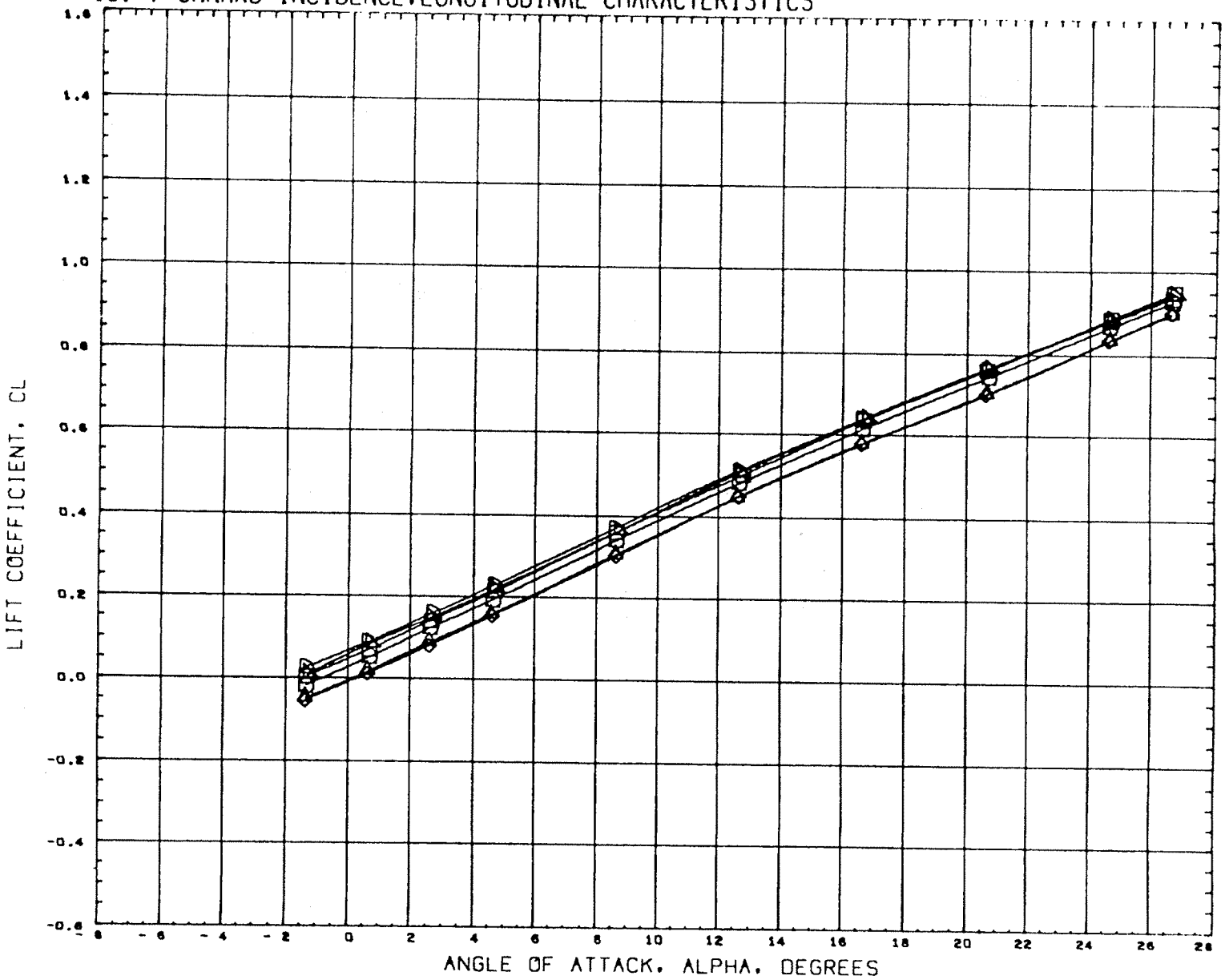
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	⬠	AMES 66-563 B22C8W19V10R2
(CBA25A)	⬡	AMES 66-563 B22C8W19V10R2
(CBA257)	D	AMES 66-563 B22C8W19V10R2

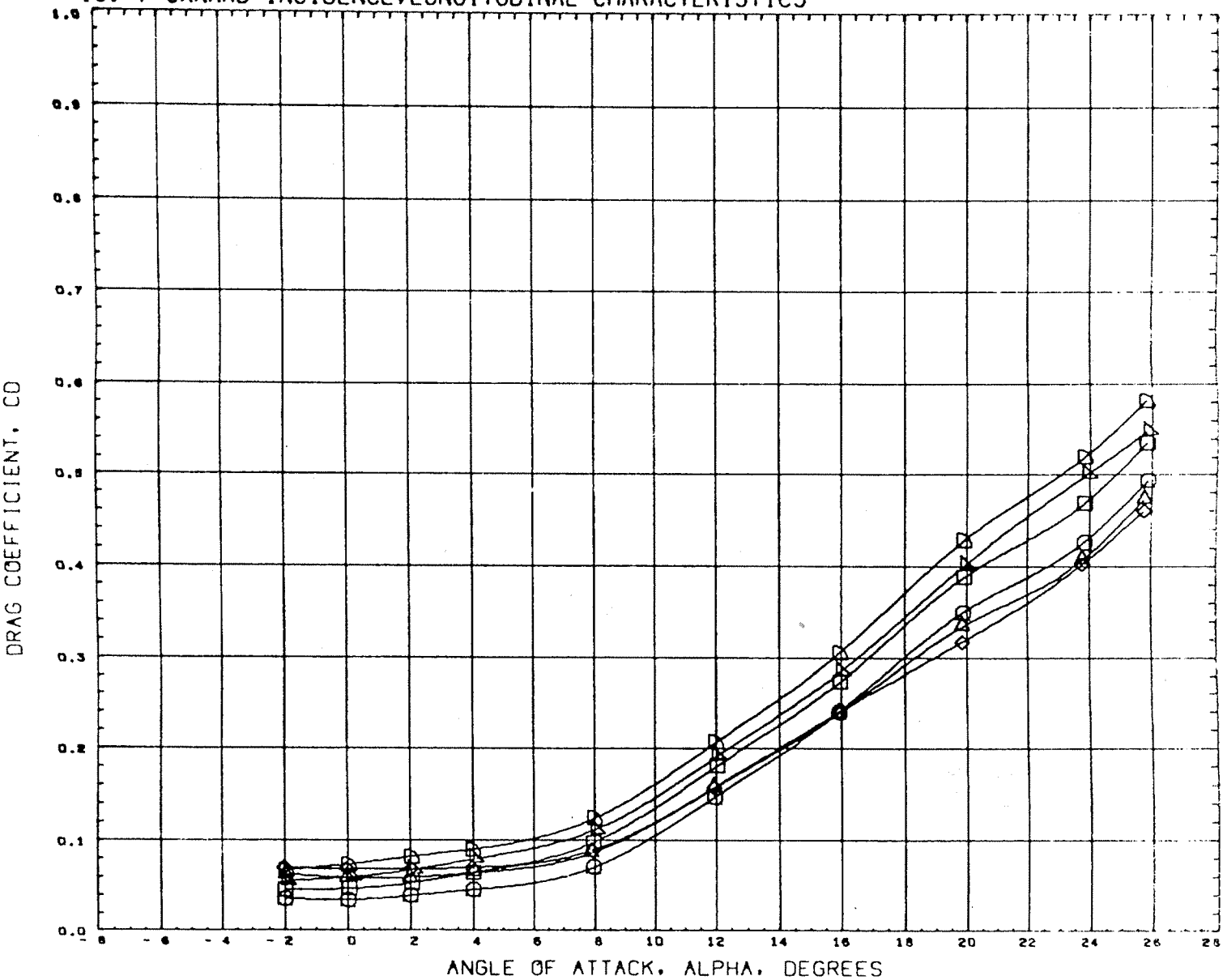
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



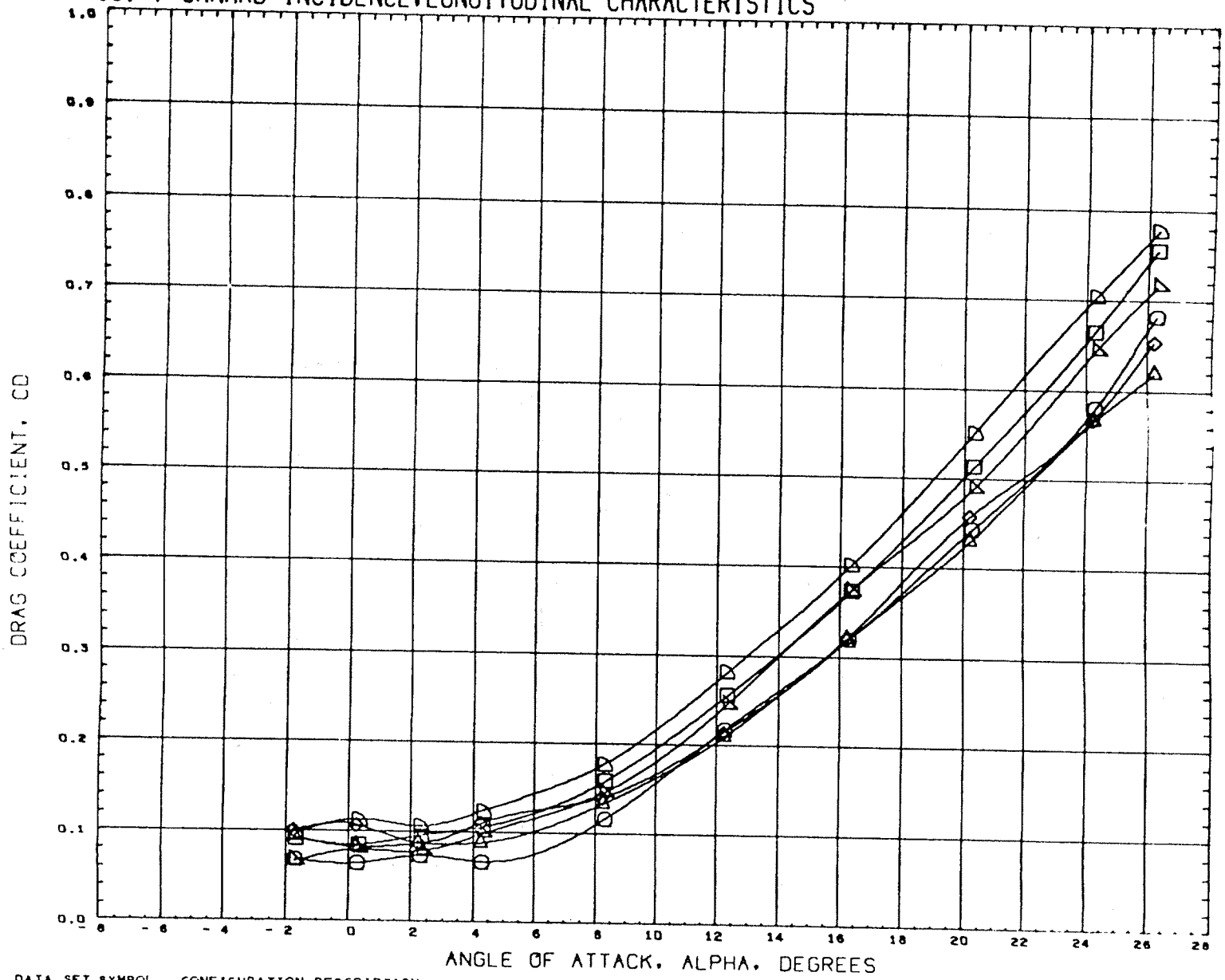
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	⊠	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⊡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⊠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	⊠	AMES 66-563 B22C8W19V10R2
(CBA25A)	◺	AMES 66-563 B22C8W19V10R2
(CBA257)	D	AMES 66-563 B22C8W19V10R2

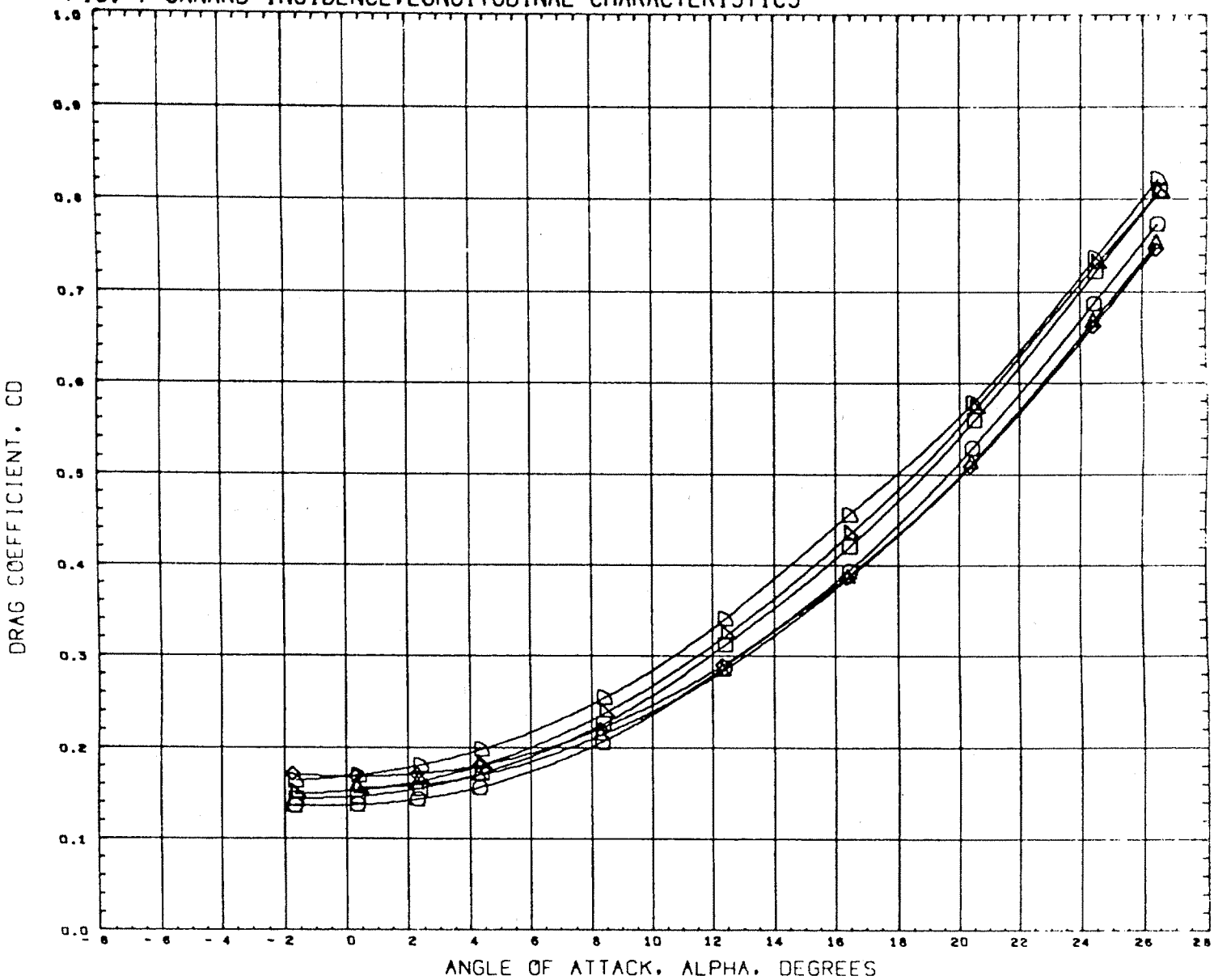
MACH 0.912

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

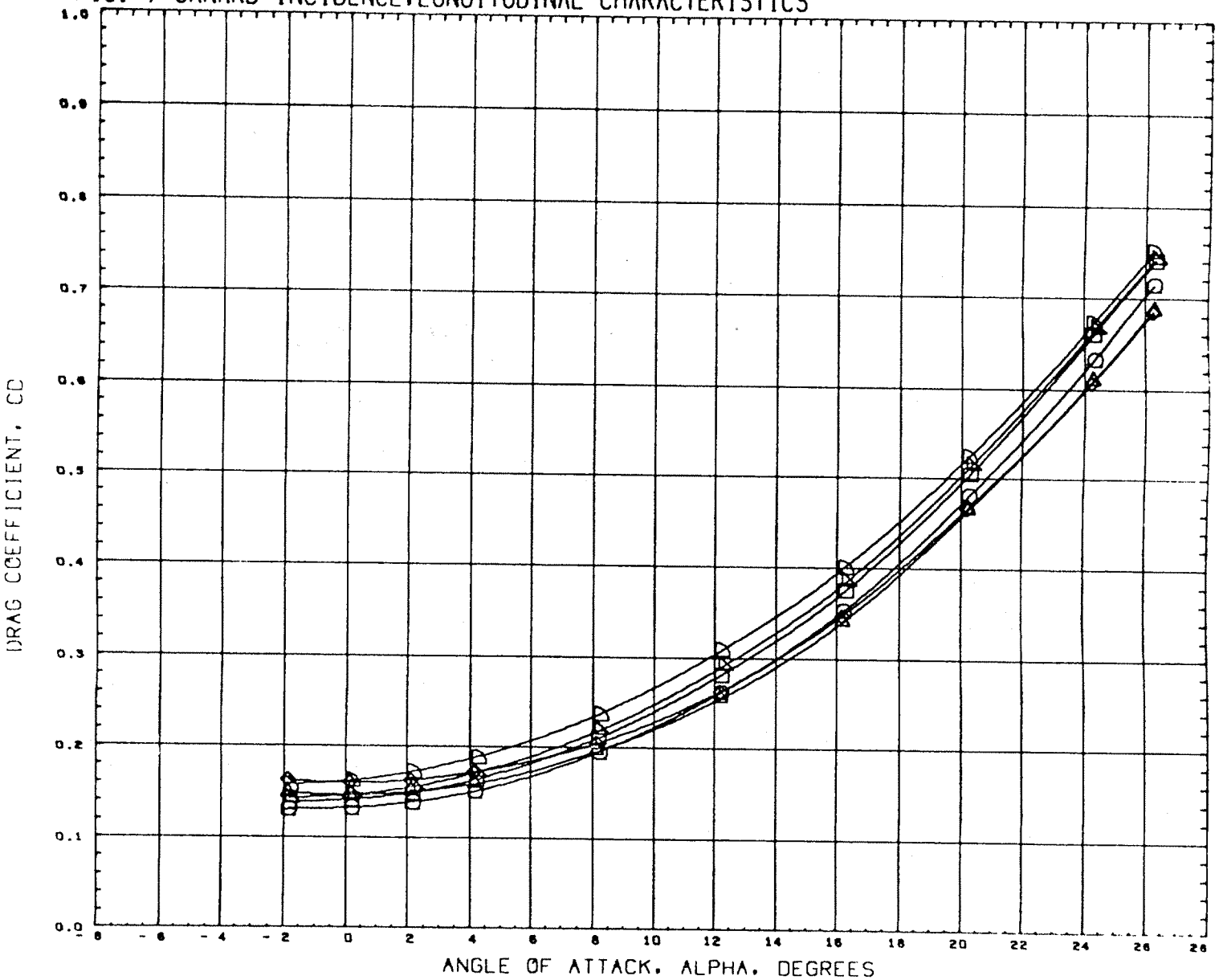


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



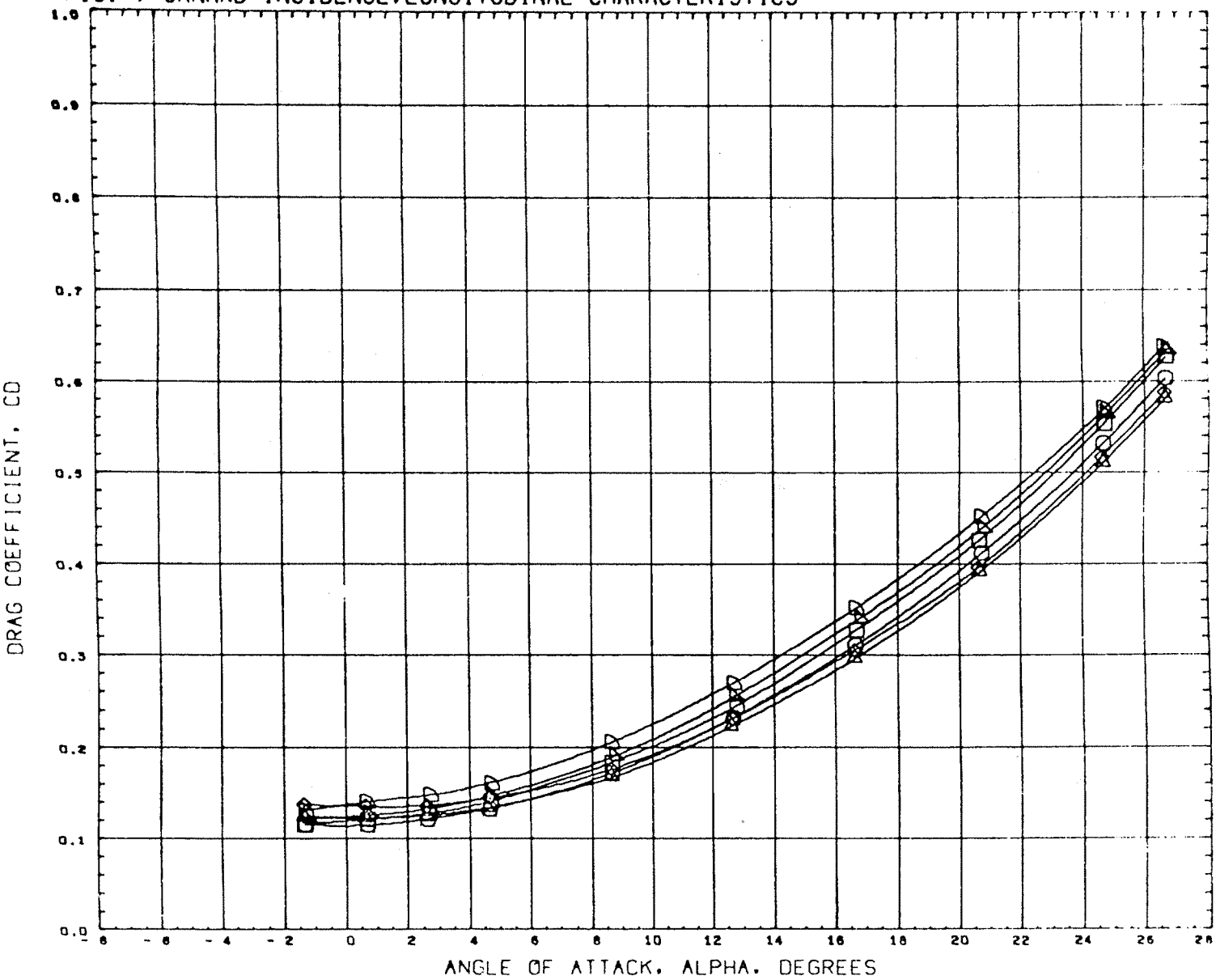
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

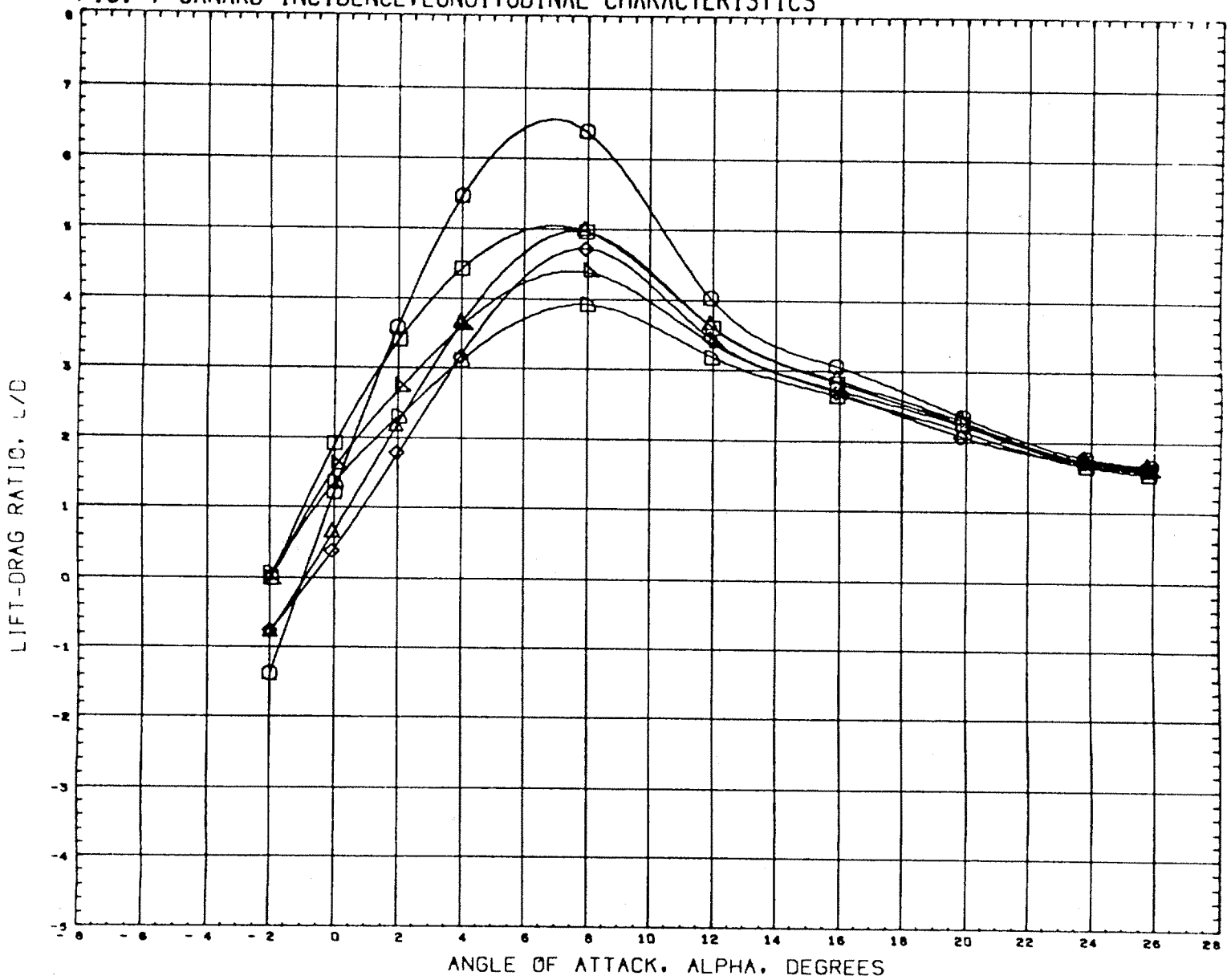


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0850	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



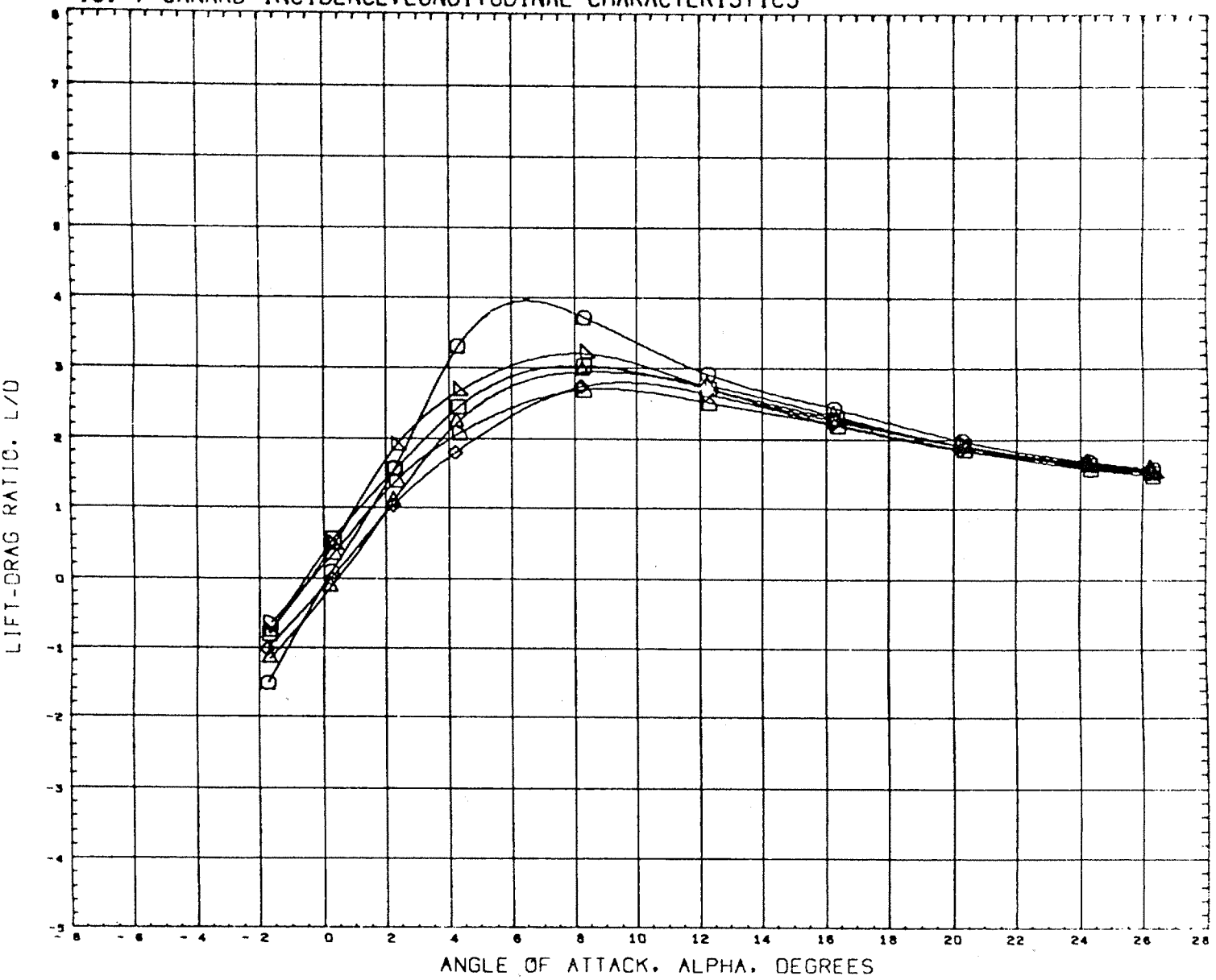
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

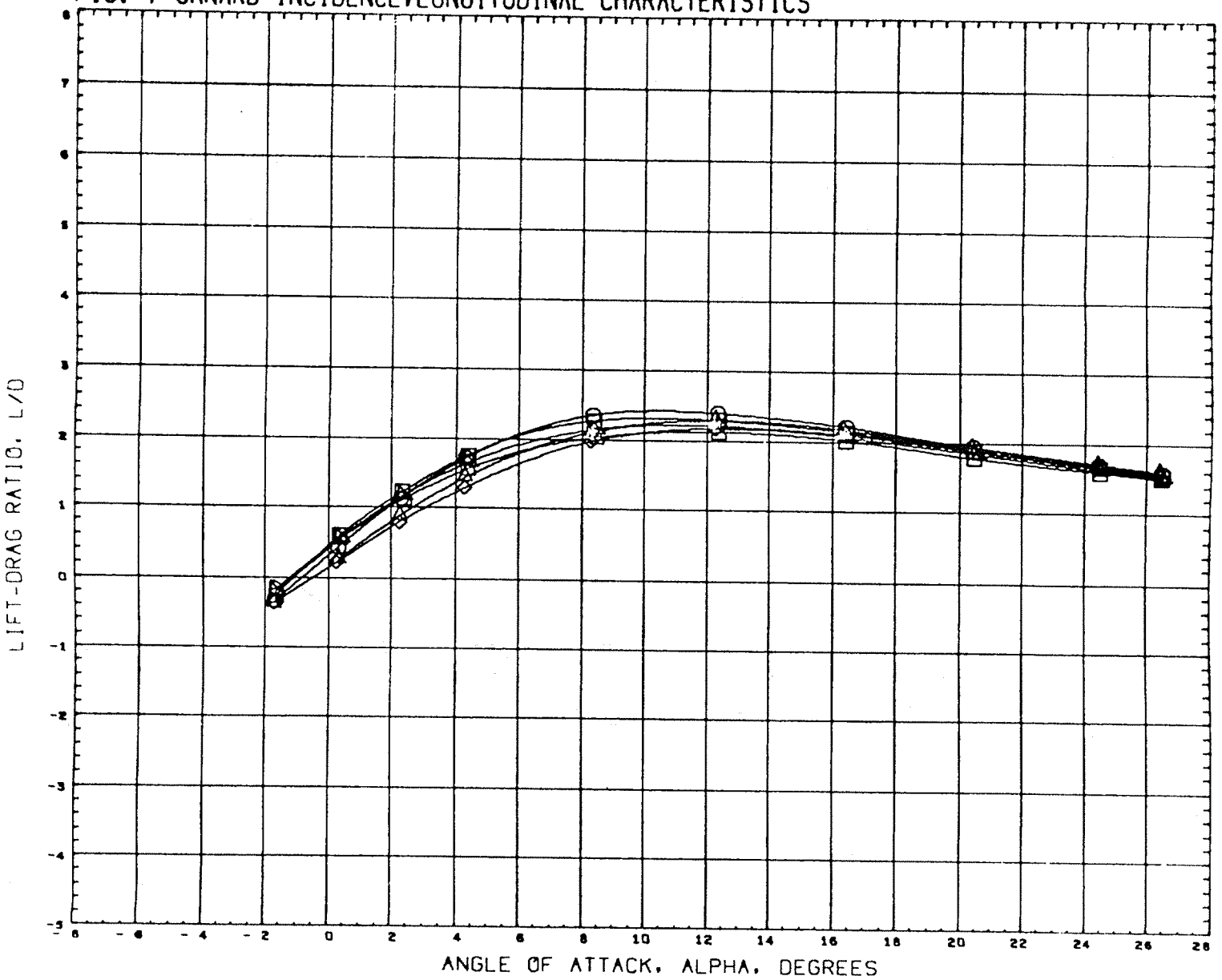


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⬠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	8.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)		AMES 66-563 B22C8W19V10R2
(CBA251)		AMES 66-563 B22C8W19V10R2
(CBA252)		AMES 66-563 B22C8W19V10R2
(CBA256)		AMES 66-563 B22C8W19V10R2
(CBA25A)		AMES 66-563 B22C8W19V10R2
(CBA257)		AMES 66-563 B22C8W19V10R2

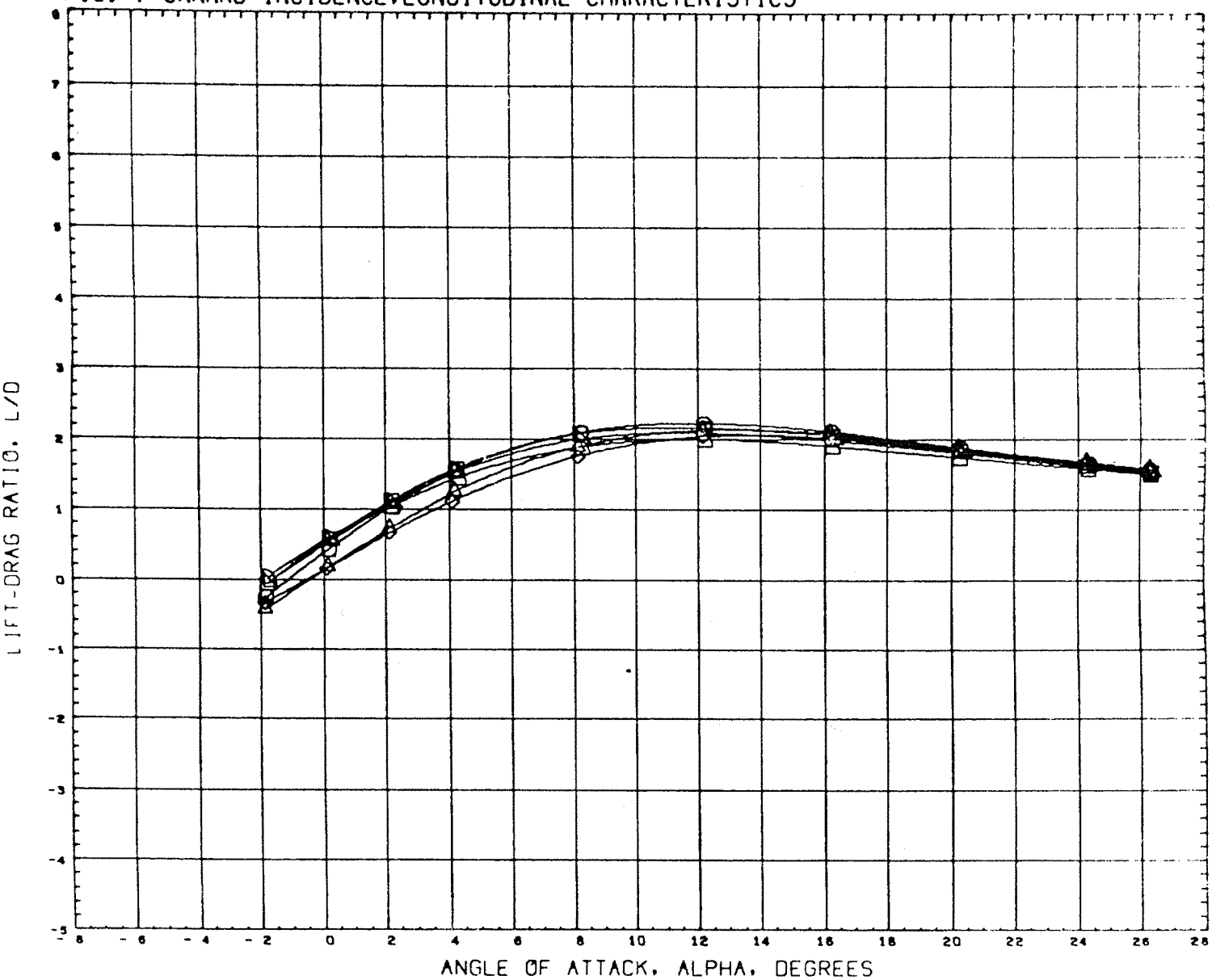
MACH 1.204

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



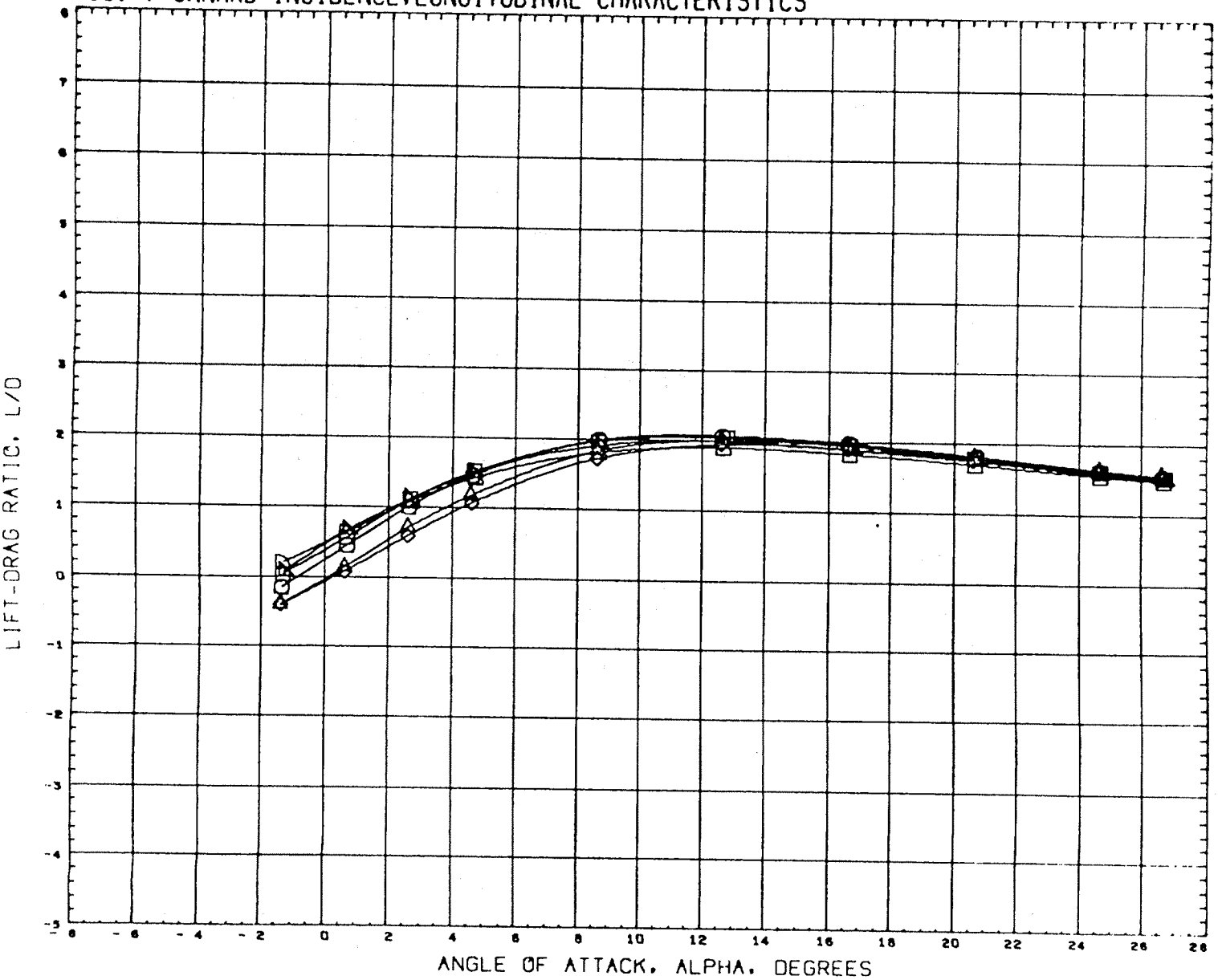
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⊳	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	⬠	AMES 66-563 B22C8W19V10R2
(CBA25A)	◸	AMES 66-563 B22C8W19V10R2
(CBA257)	◗	AMES 66-563 B22C8W19V10R2

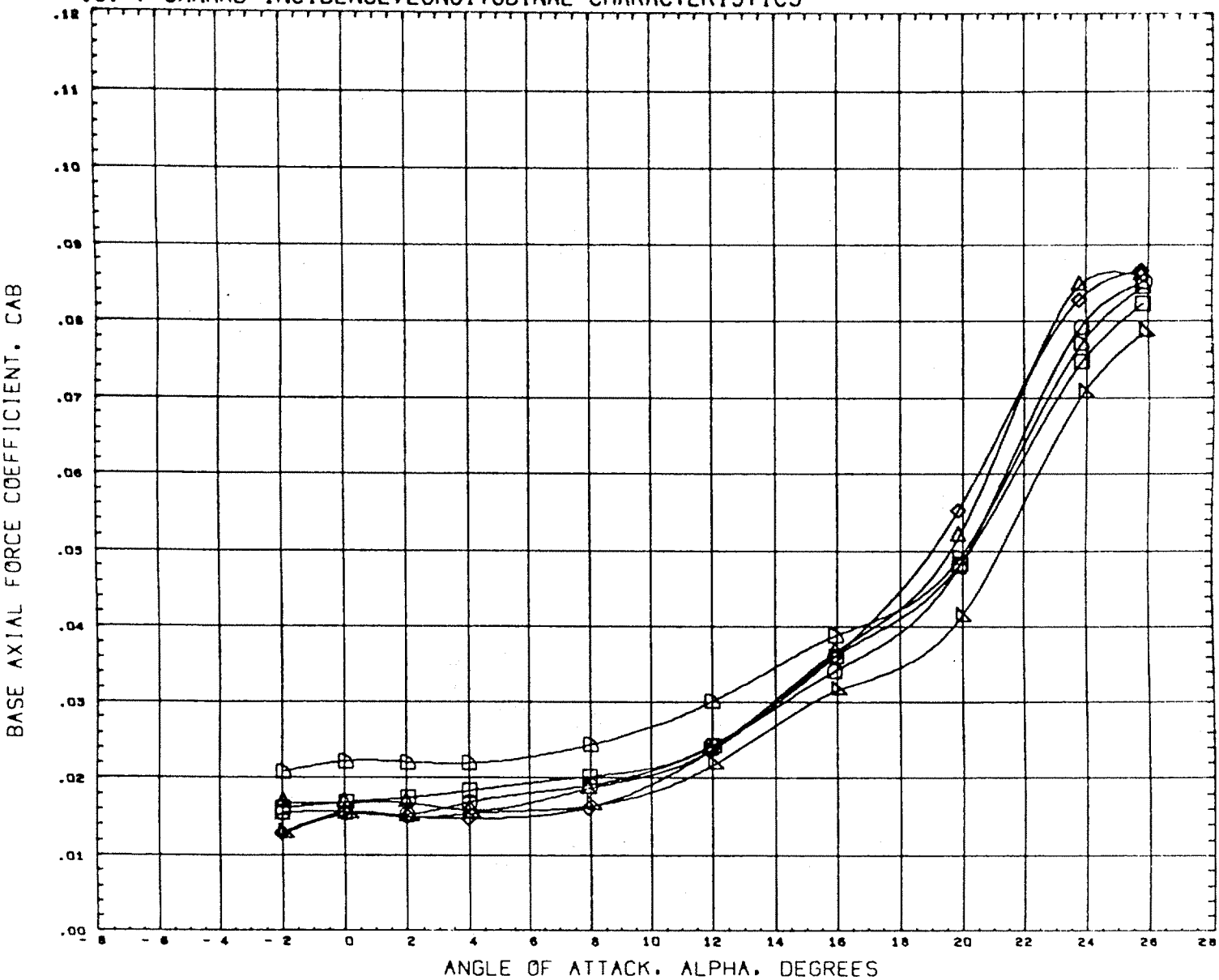
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

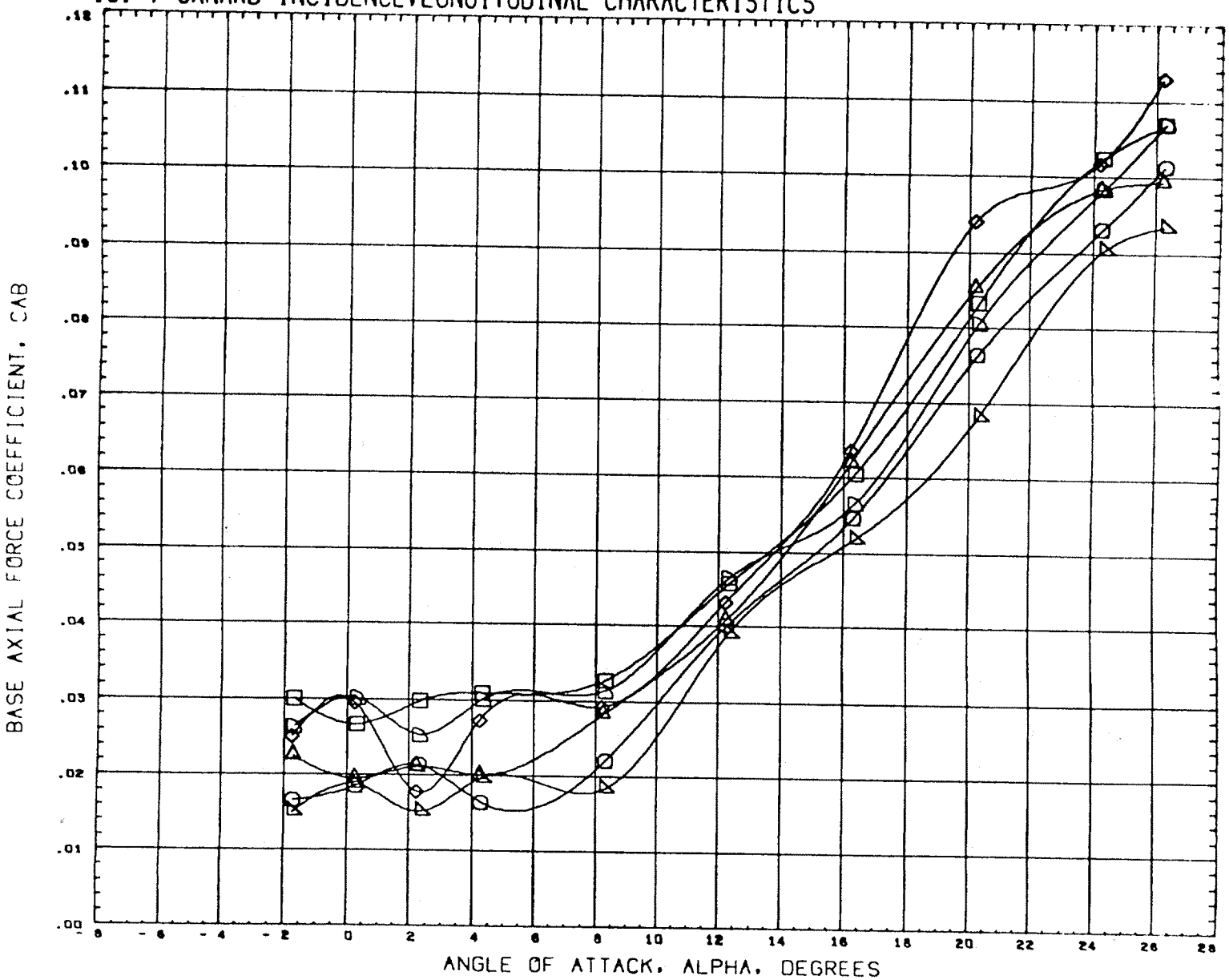


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	▽	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



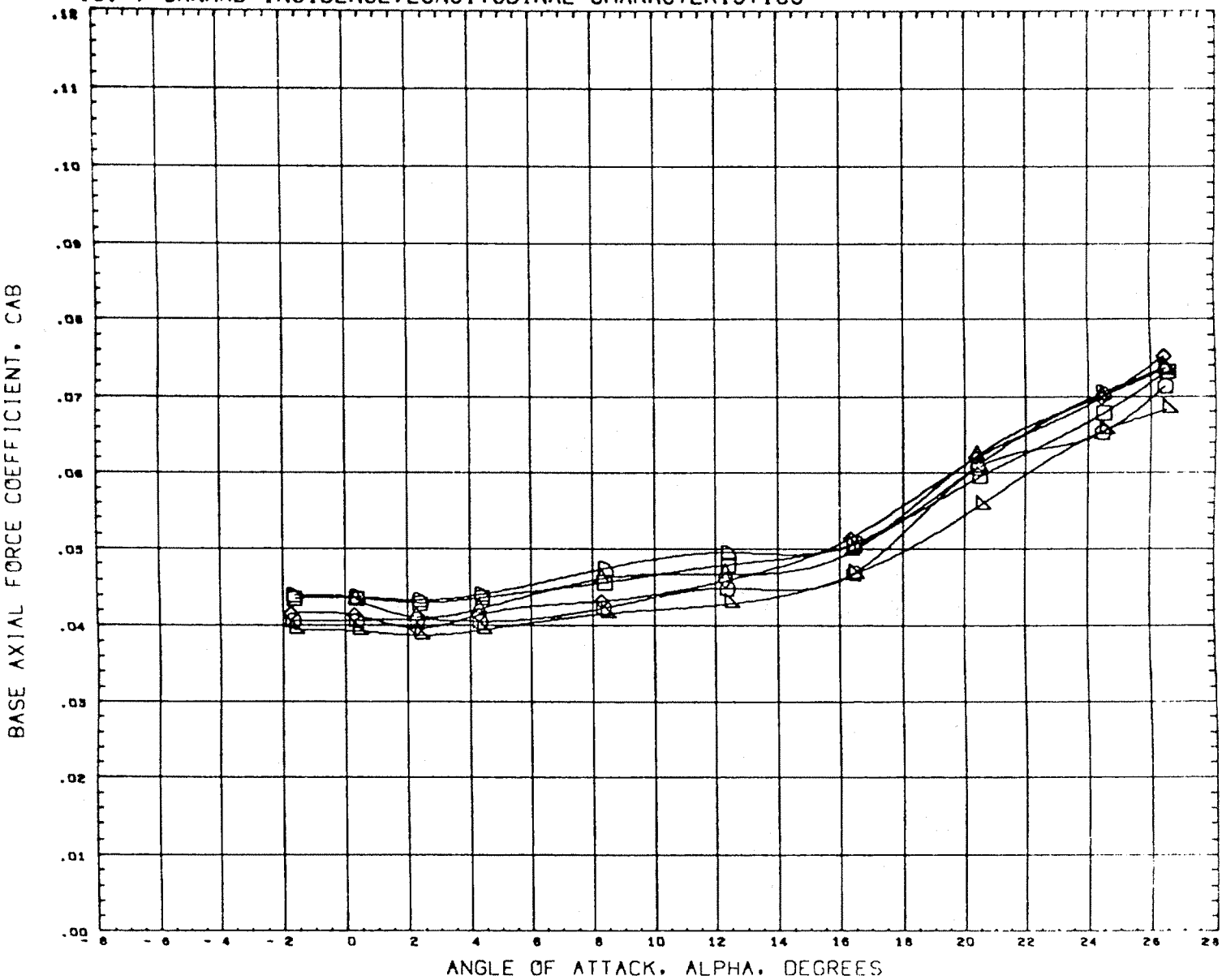
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◁	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	▷	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



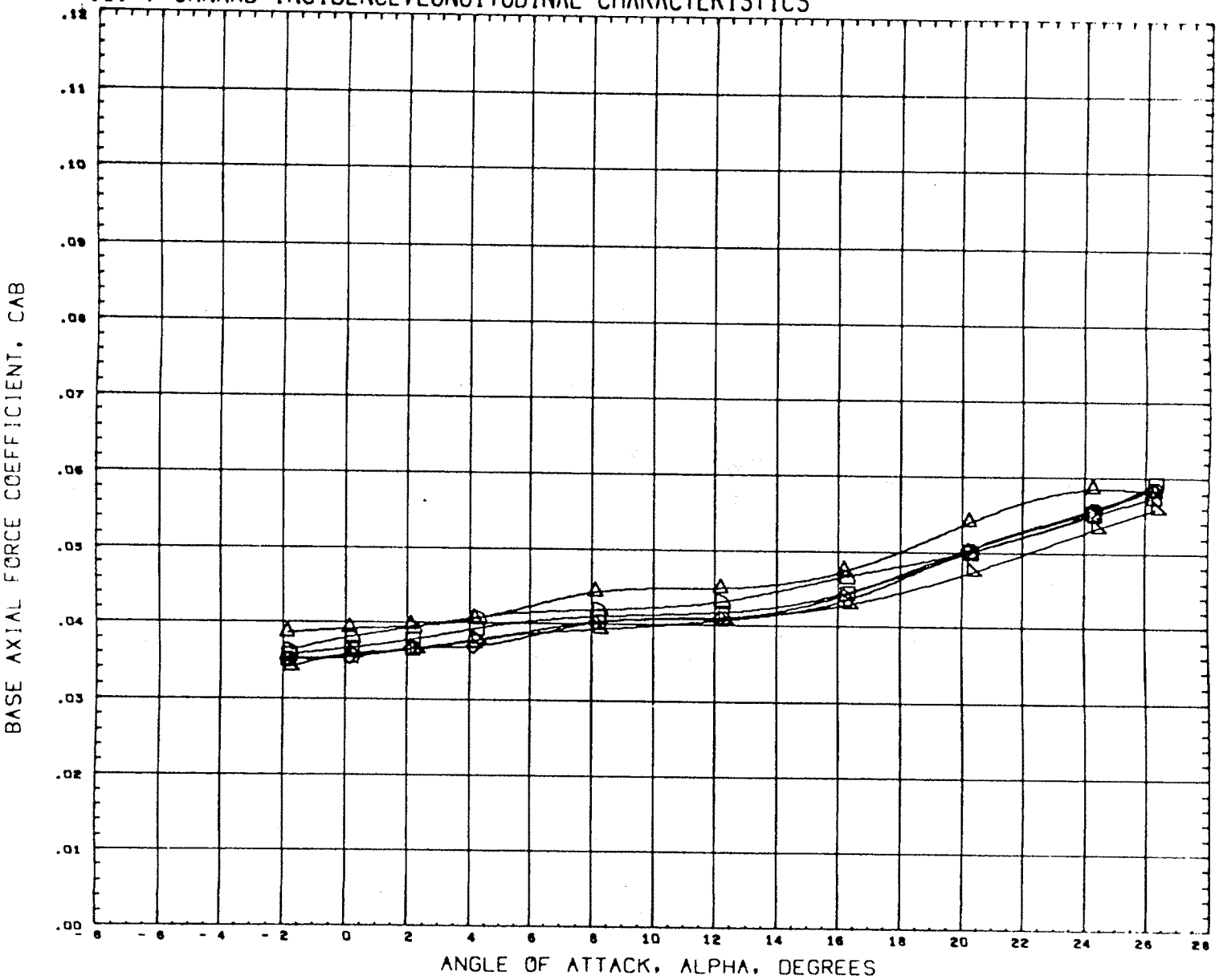
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	□	AMES 66-563 B22C8W19V10R2
(CBA25A)	◸	AMES 66-563 B22C8W19V10R2
(CBA257)	▷	AMES 66-563 B22C8W19V10R2

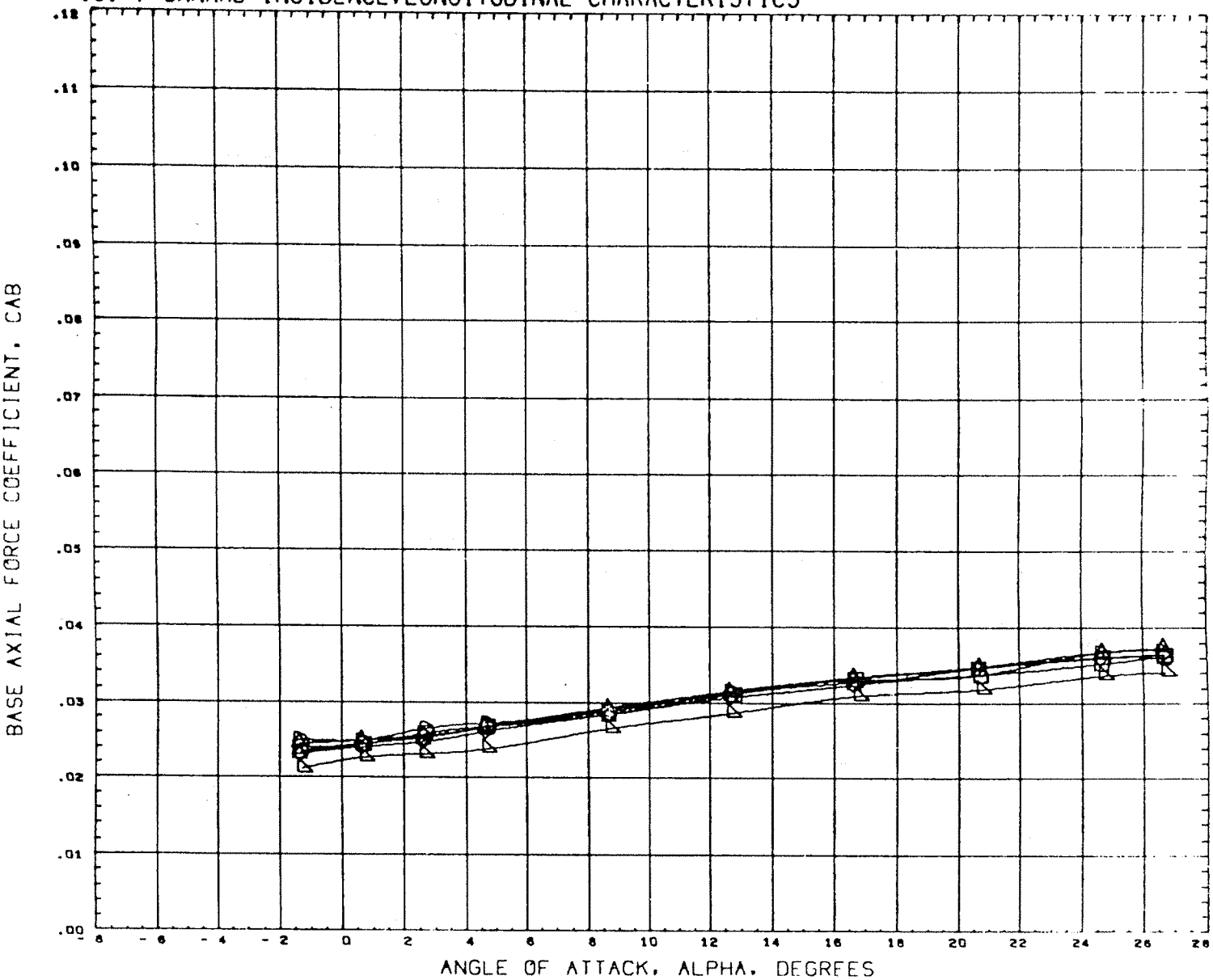
MACH 1.497

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



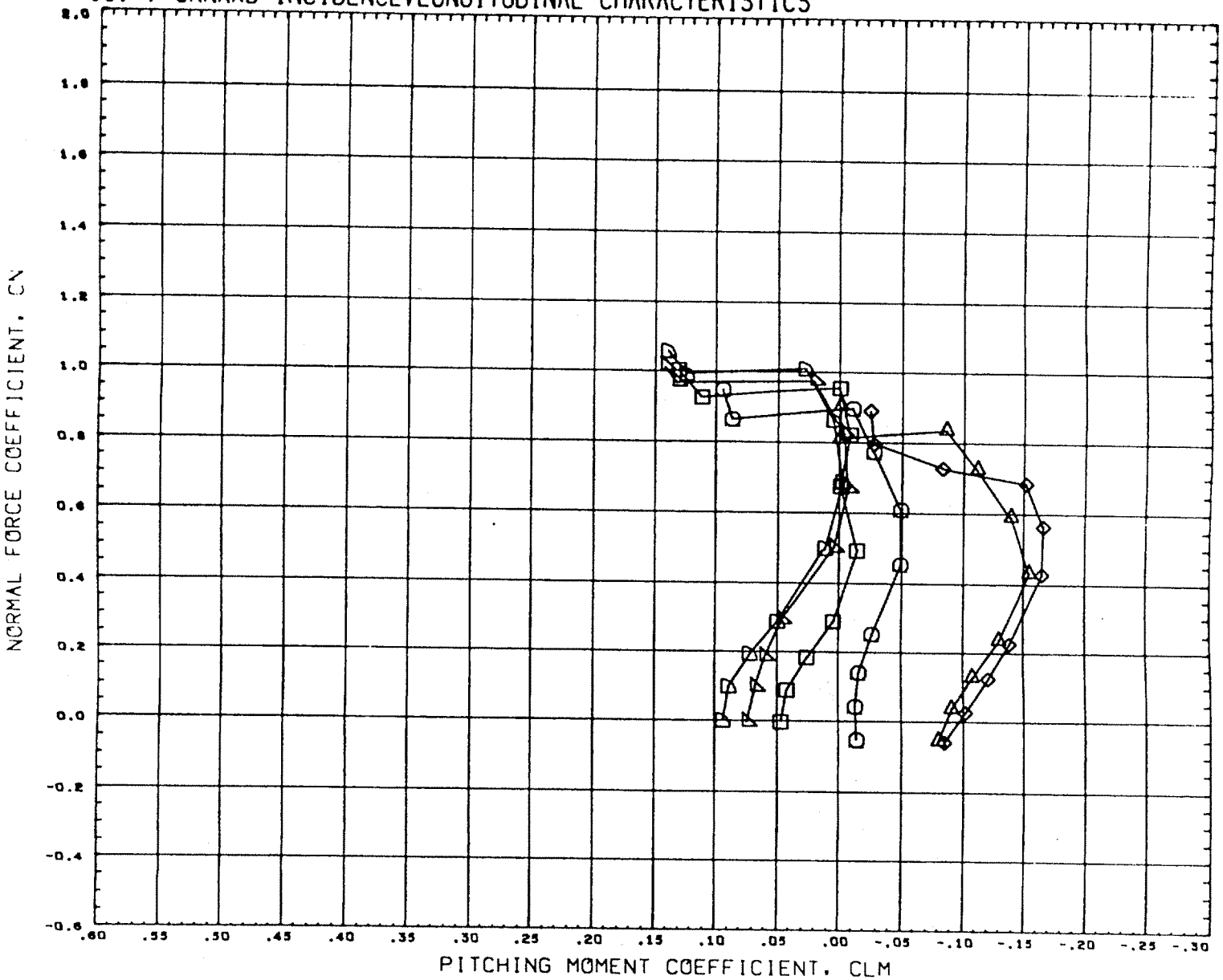
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



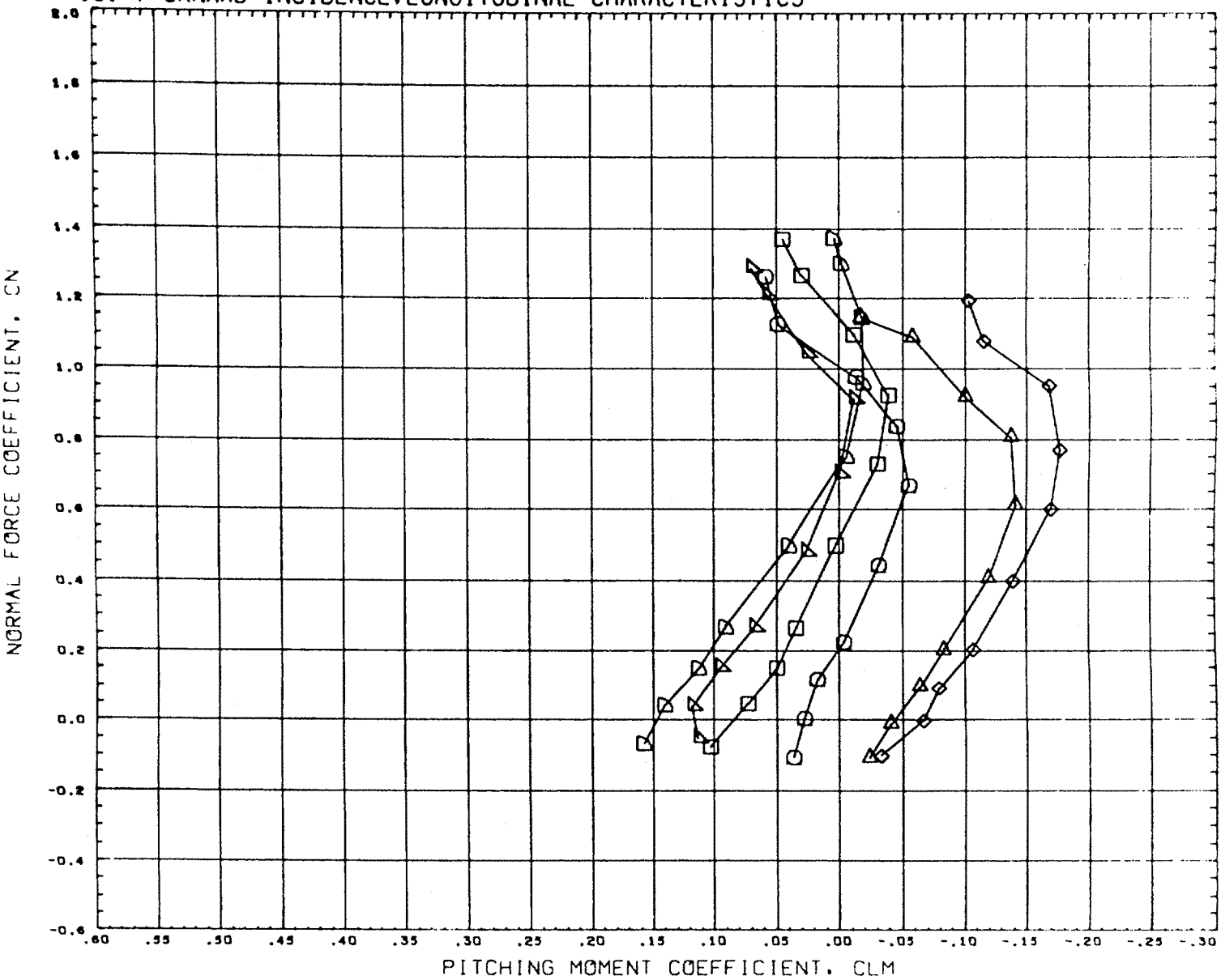
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⬠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

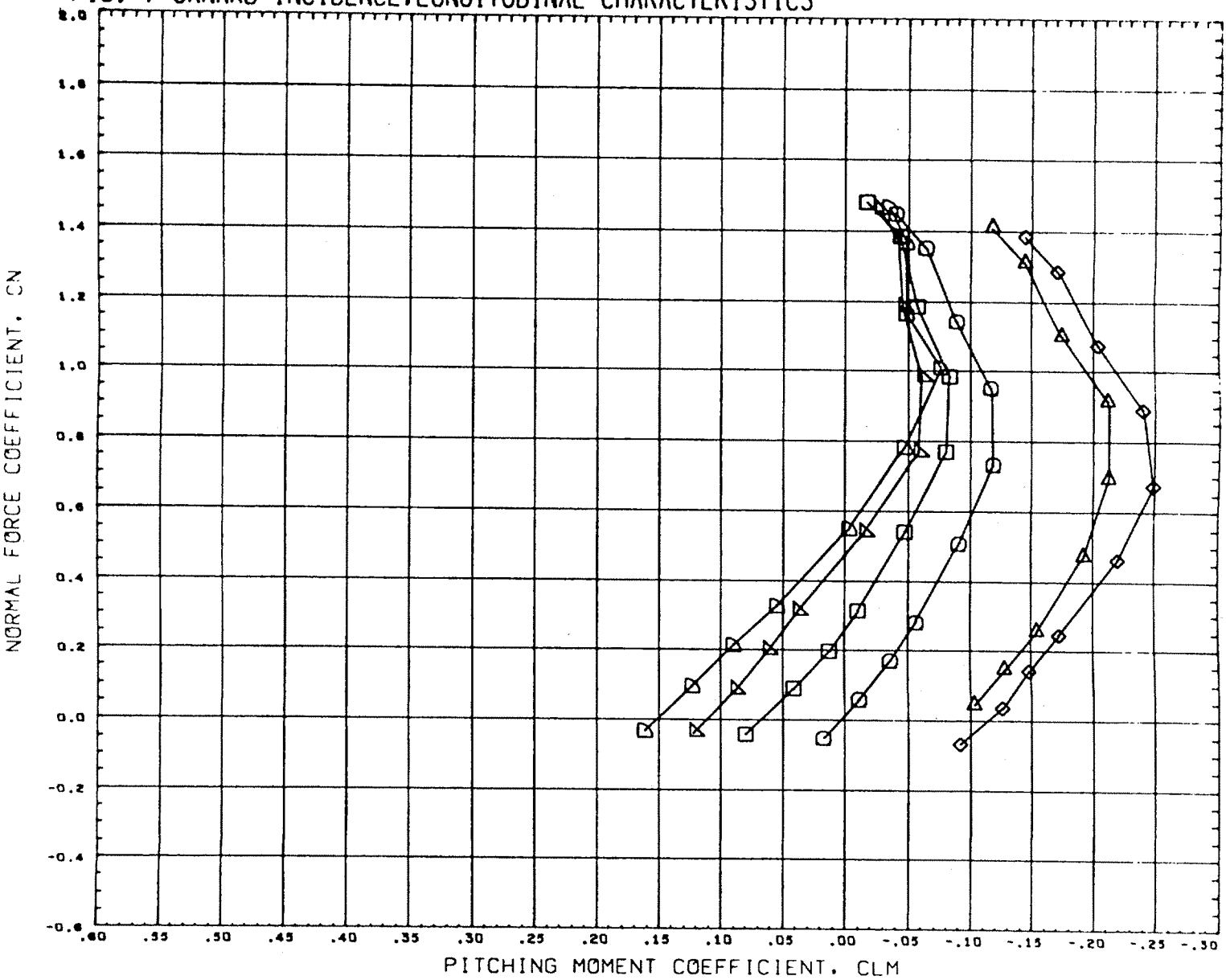


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	□	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◺	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	◸	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



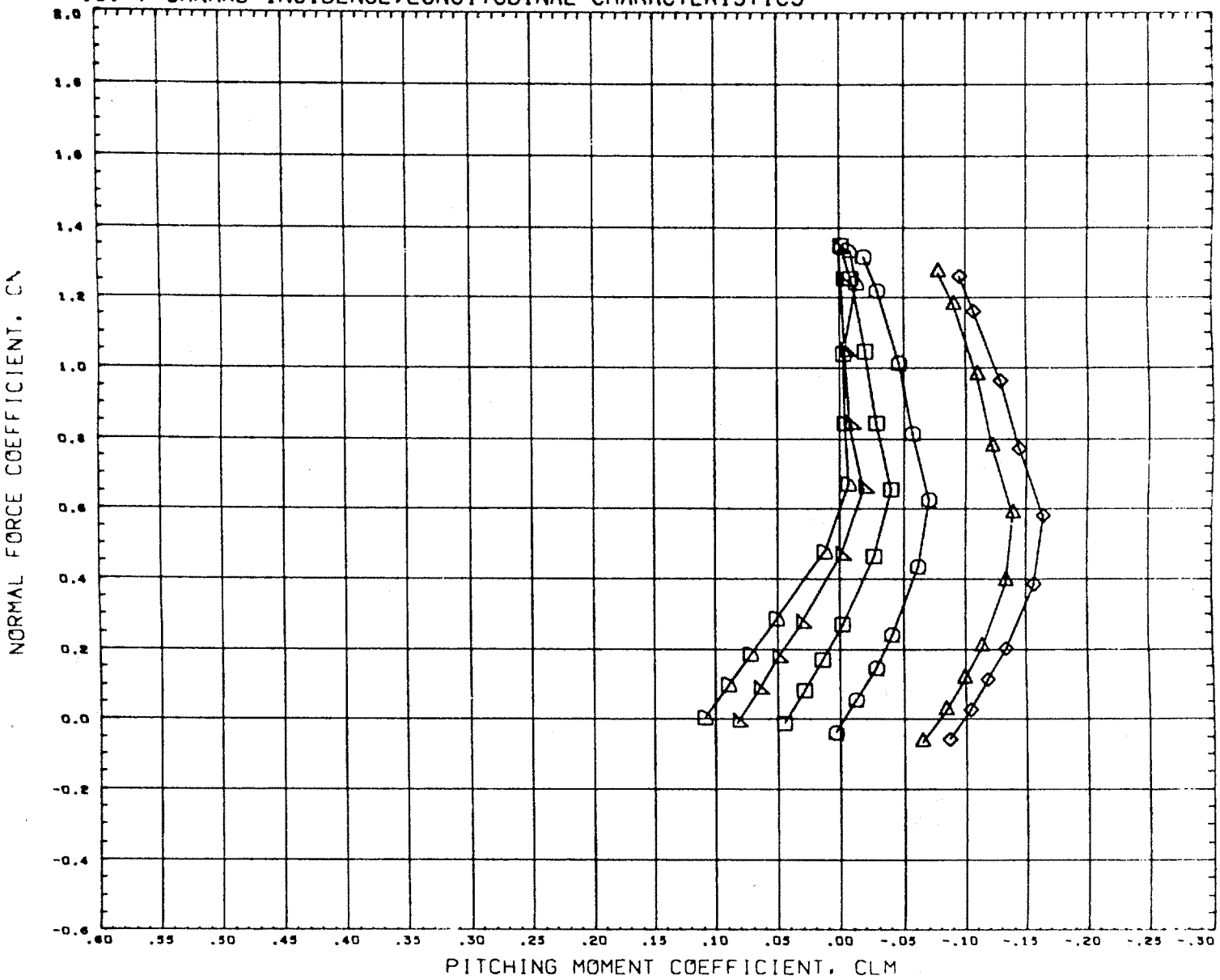
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◪	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	◗	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS

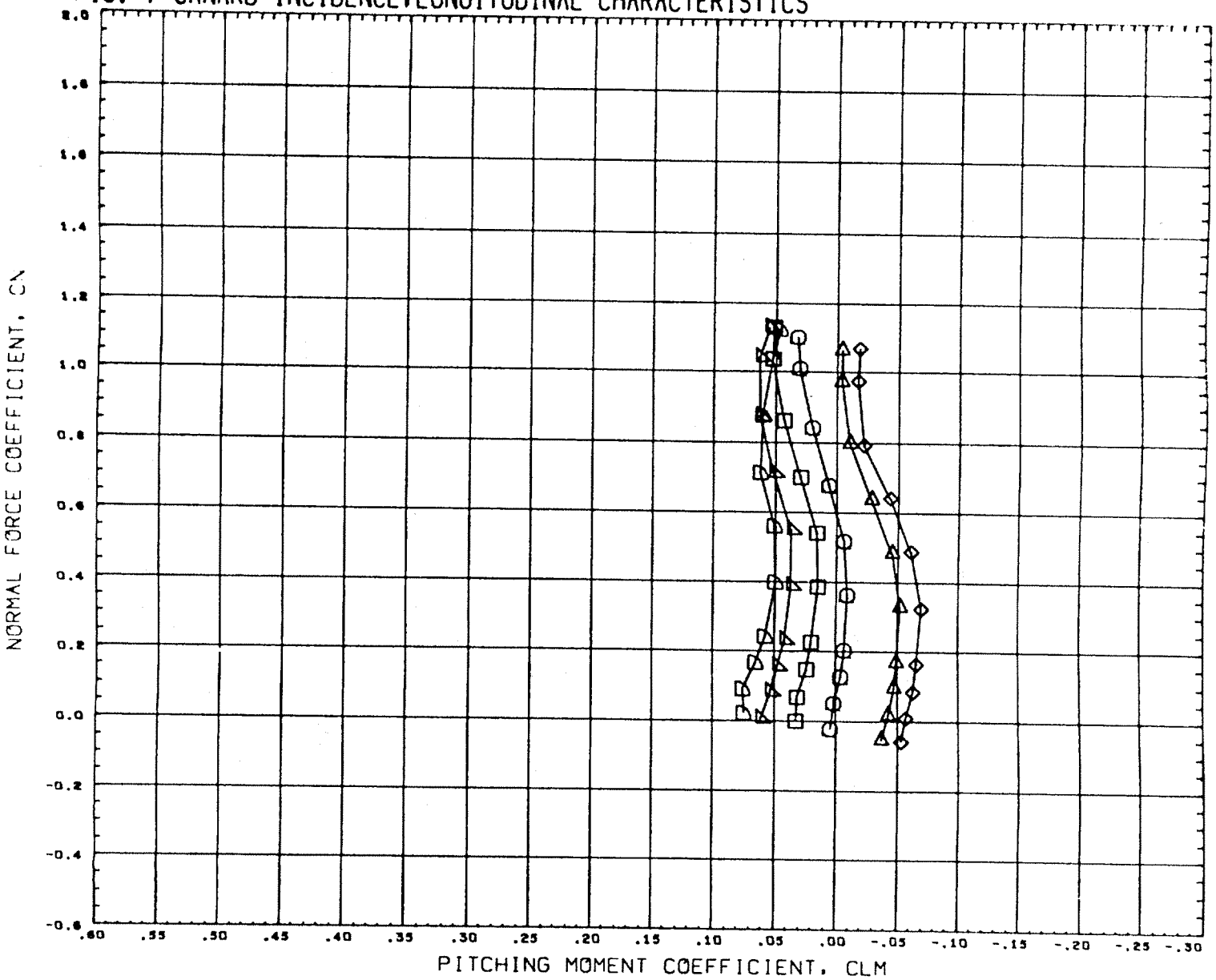


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)		AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)		AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)		AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)		AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)		AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



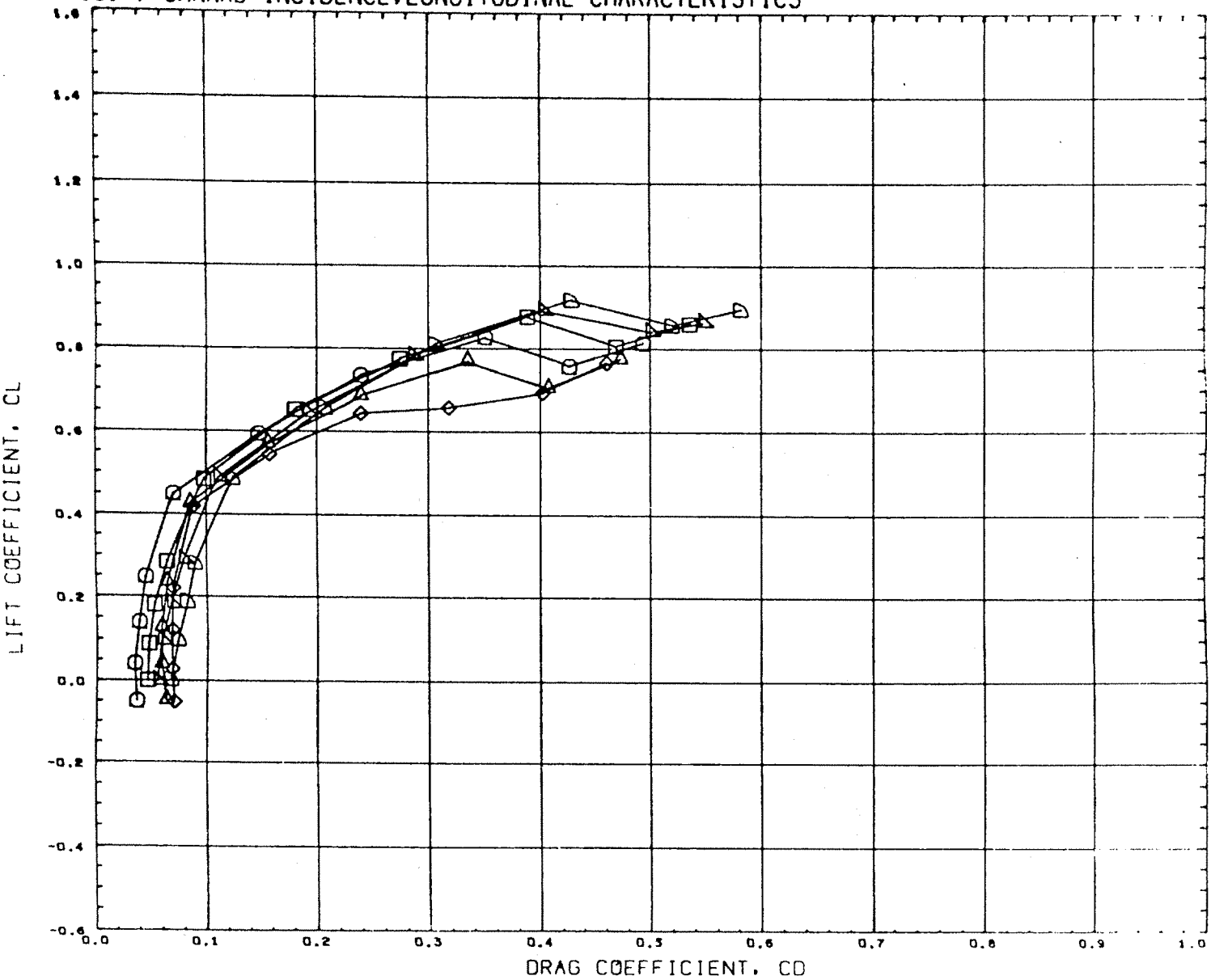
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⬡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	⬠	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	⬠	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 2.004

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



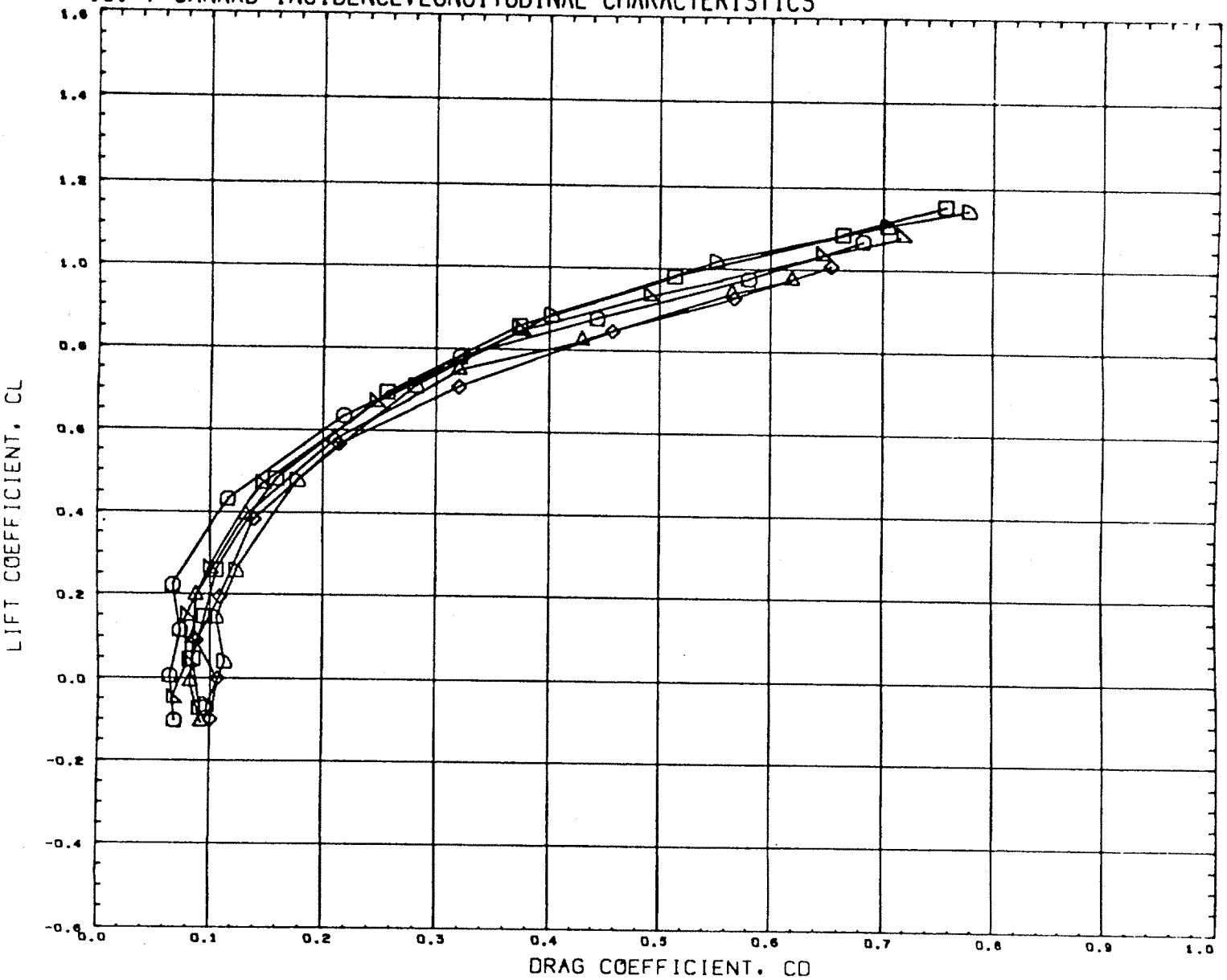
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA230)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA231)	△	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA232)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA236)	☐	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA23A)	↖	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA237)	D	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)		AMES 66-563 B22C8W19V10R2
(CBA251)		AMES 66-563 B22C8W19V10R2
(CBA252)		AMES 66-563 B22C8W19V10R2
(CBA256)		AMES 66-563 B22C8W19V10R2
(CBA25A)		AMES 66-563 B22C8W19V10R2
(CBA257)		AMES 66-563 B22C8W19V10R2

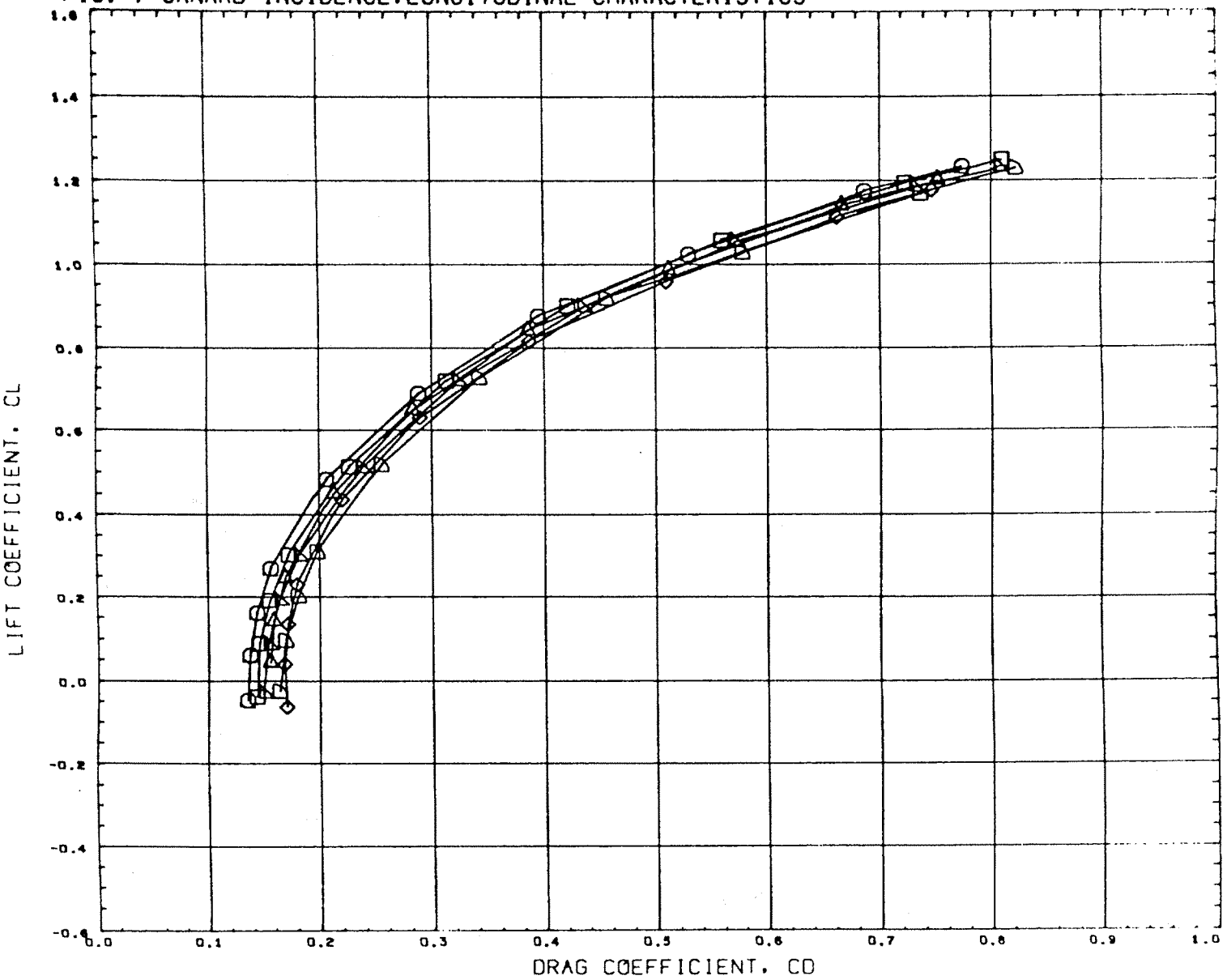
MACH 0.912

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



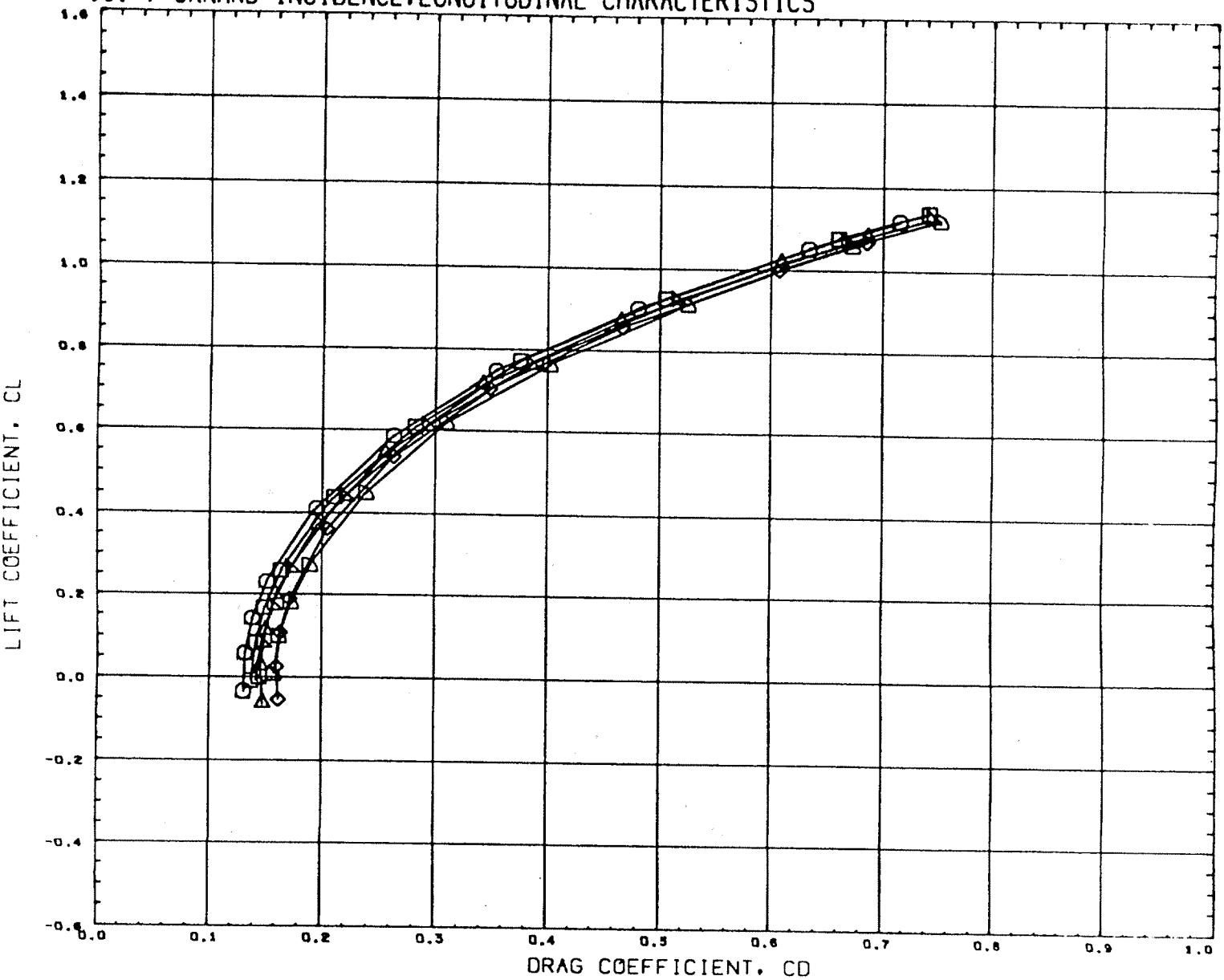
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	IC	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000
(CBA251)	⊠	AMES 66-563 B22C8W19V10R2	-20.000	0.000
(CBA252)	◇	AMES 66-563 B22C8W19V10R2	-30.000	0.000
(CBA256)	⊡	AMES 66-563 B22C8W19V10R2	10.000	0.000
(CBA25A)	◪	AMES 66-563 B22C8W19V10R2	20.000	0.000
(CBA257)	◫	AMES 66-563 B22C8W19V10R2	30.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)		AMES 66-563 B22C8W19V10R2
(CBA251)		AMES 66-563 B22C8W19V10R2
(CBA252)		AMES 66-563 B22C8W19V10R2
(CBA256)		AMES 66-563 B22C8W19V10R2
(CBA23A)		AMES 66-563 B22C8W19V10R2
(CBA257)		AMES 66-563 B22C8W19V10R2

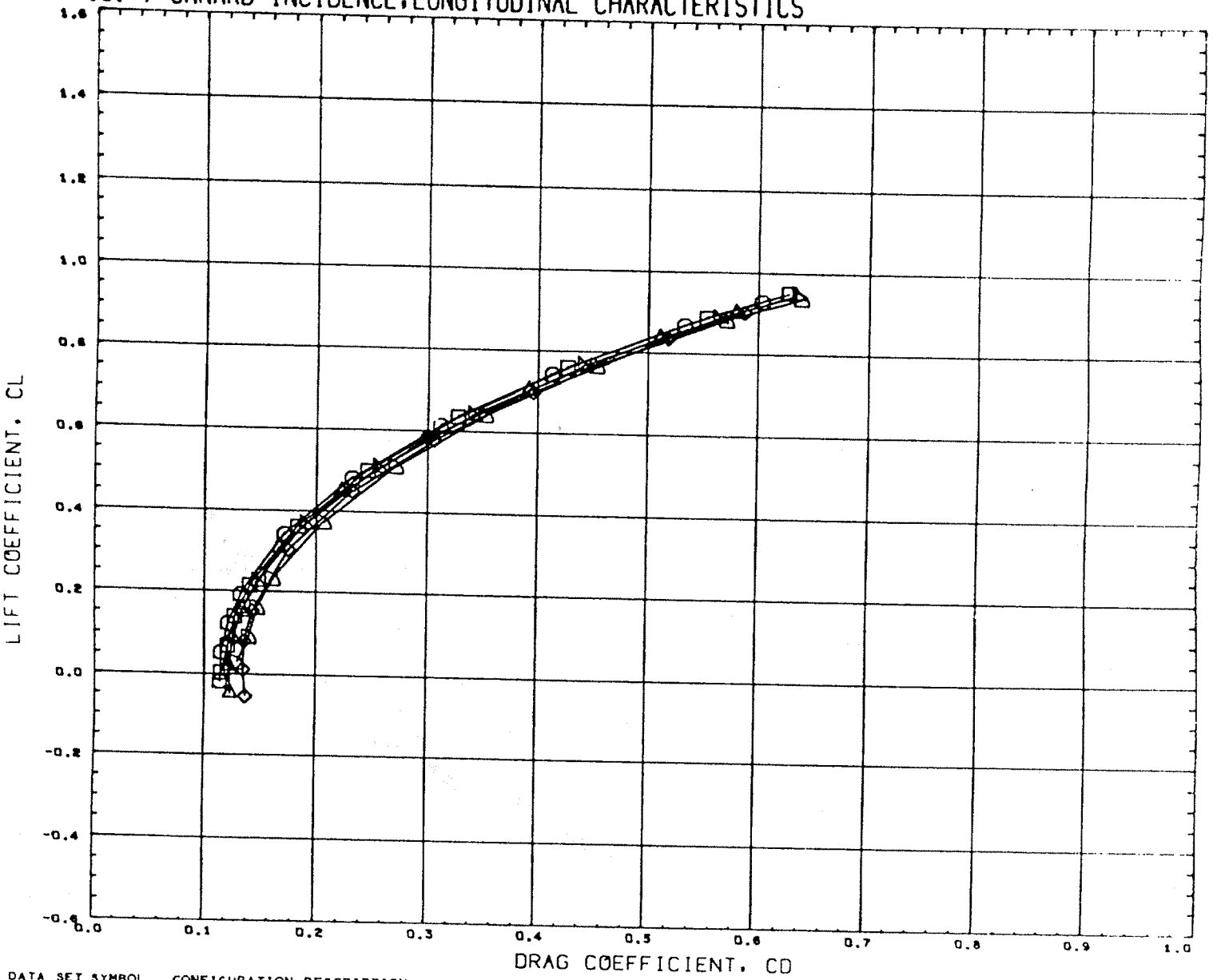
MACH 1.497

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 7 CANARD INCIDENCE, LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA251)	△	AMES 66-563 B22C8W19V10R2
(CBA252)	◇	AMES 66-563 B22C8W19V10R2
(CBA256)	□	AMES 66-563 B22C8W19V10R2
(CBA25A)	◺	AMES 66-563 B22C8W19V10R2
(CBA257)	▱	AMES 66-563 B22C8W19V10R2

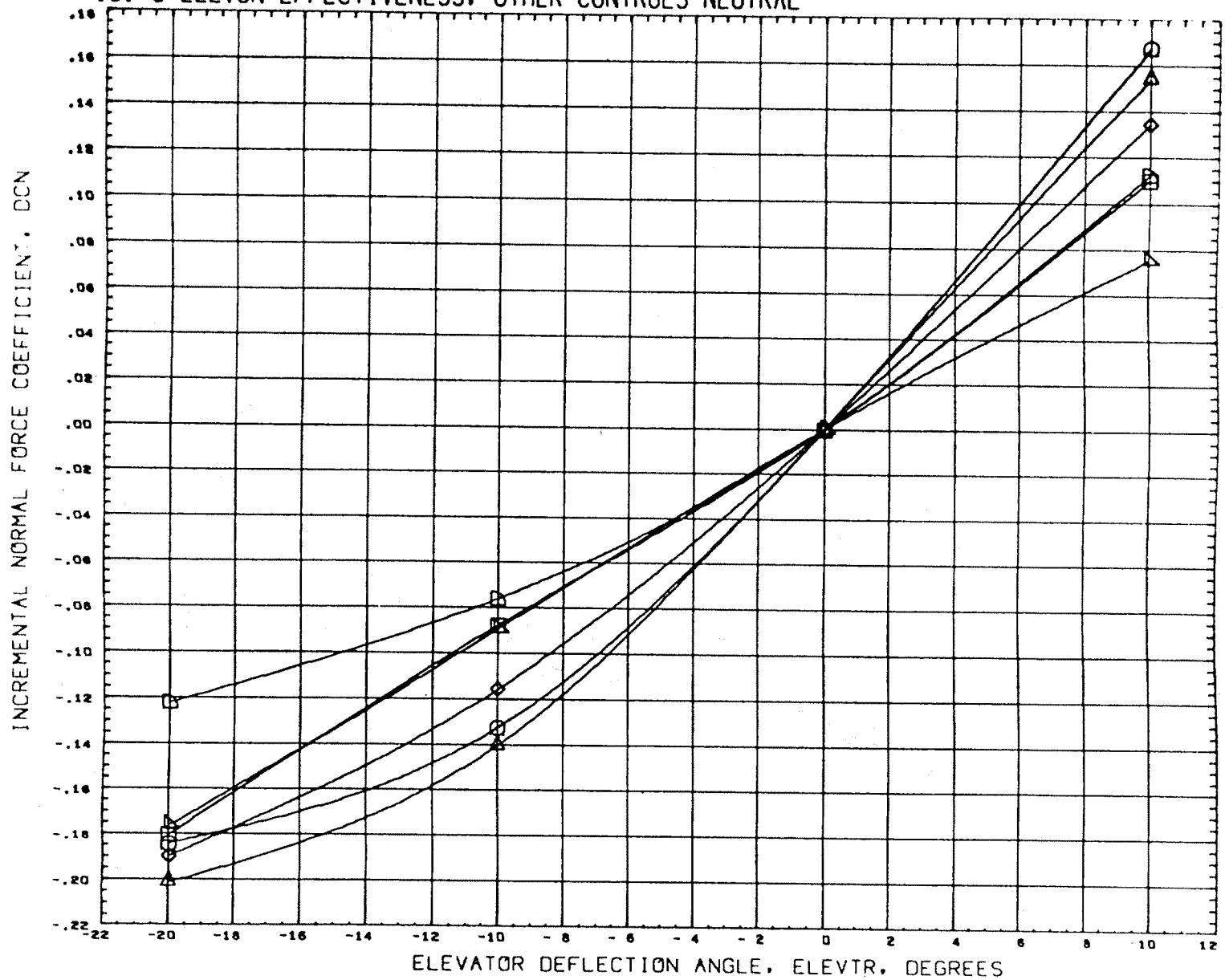
MACH 2.004

IC	BETA
0.000	0.000
-20.000	0.000
-30.000	0.000
10.000	0.000
20.000	0.000
30.000	0.000

REFERENCE INFORMATION

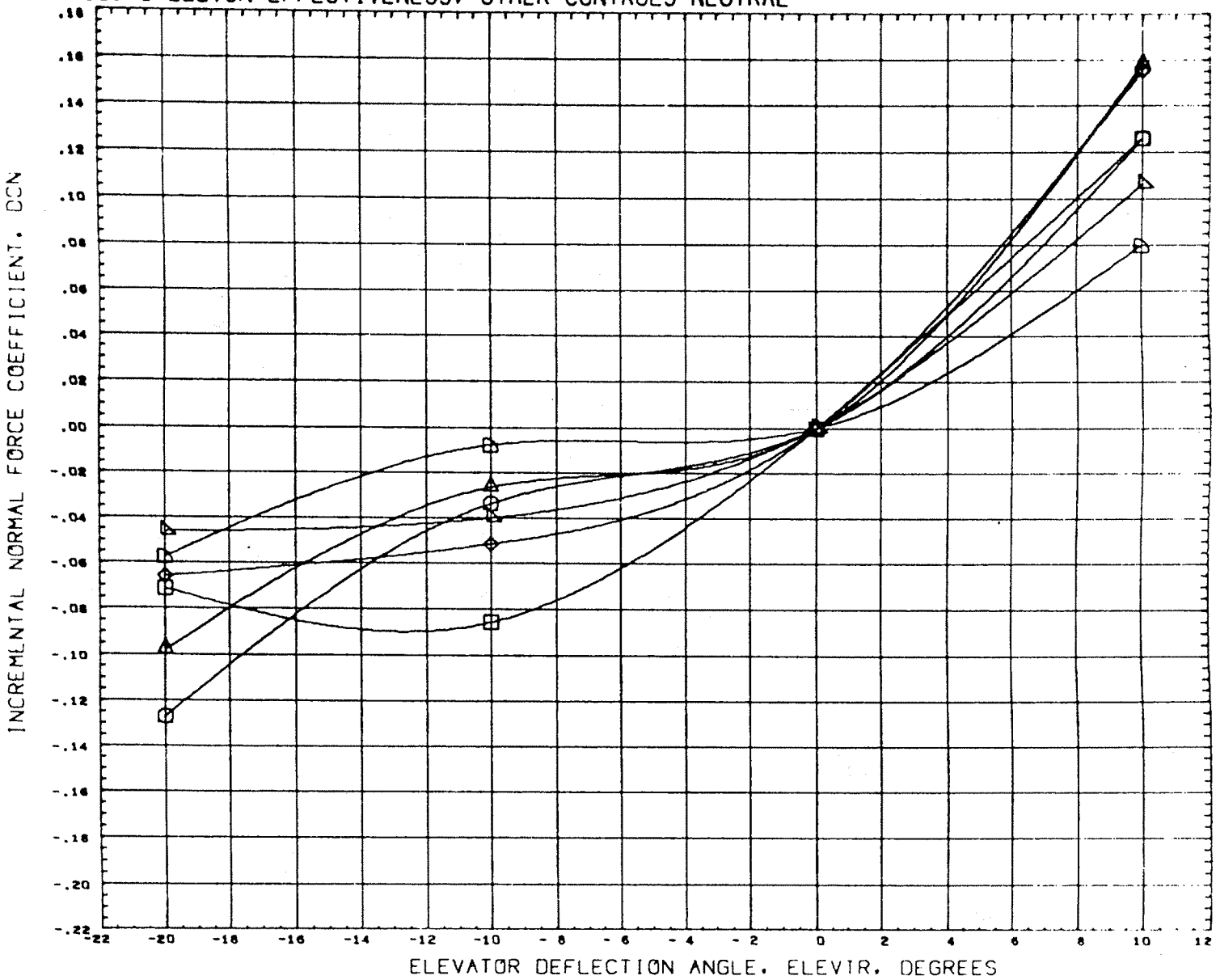
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
⊿	20.000									YMRP	0.0000	IN.
▷	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

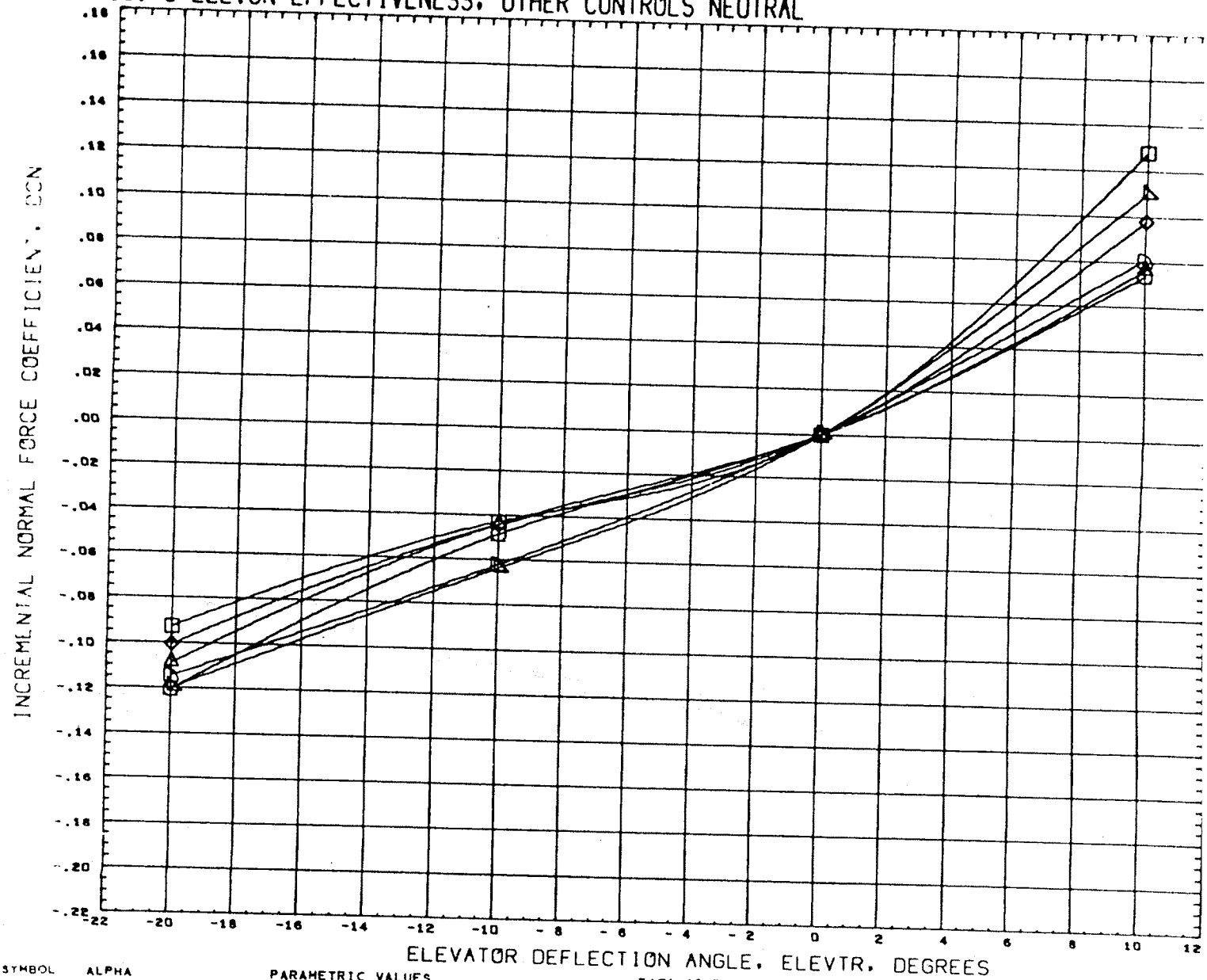
FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.900	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 162

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◸	20.000
D	25.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

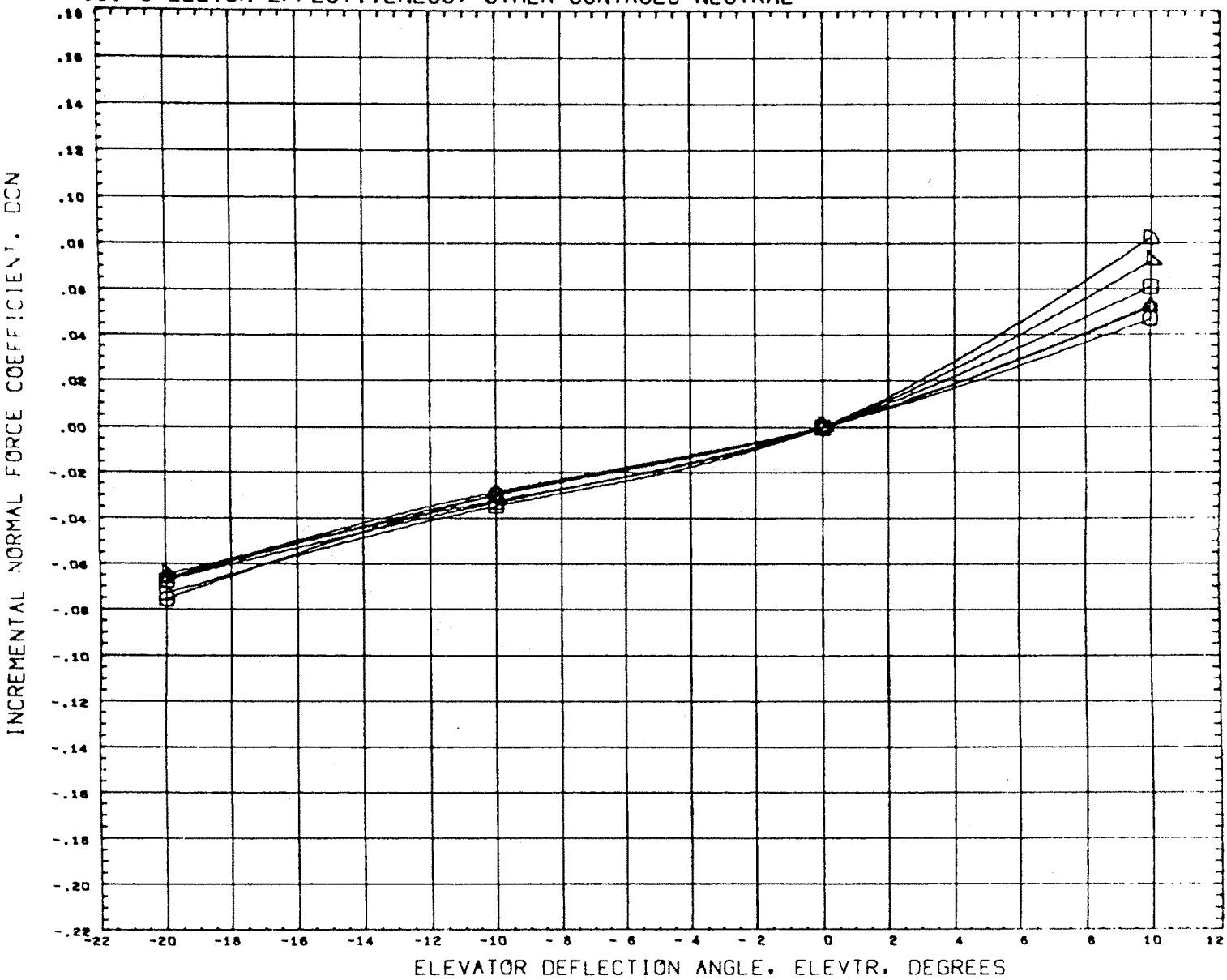
DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

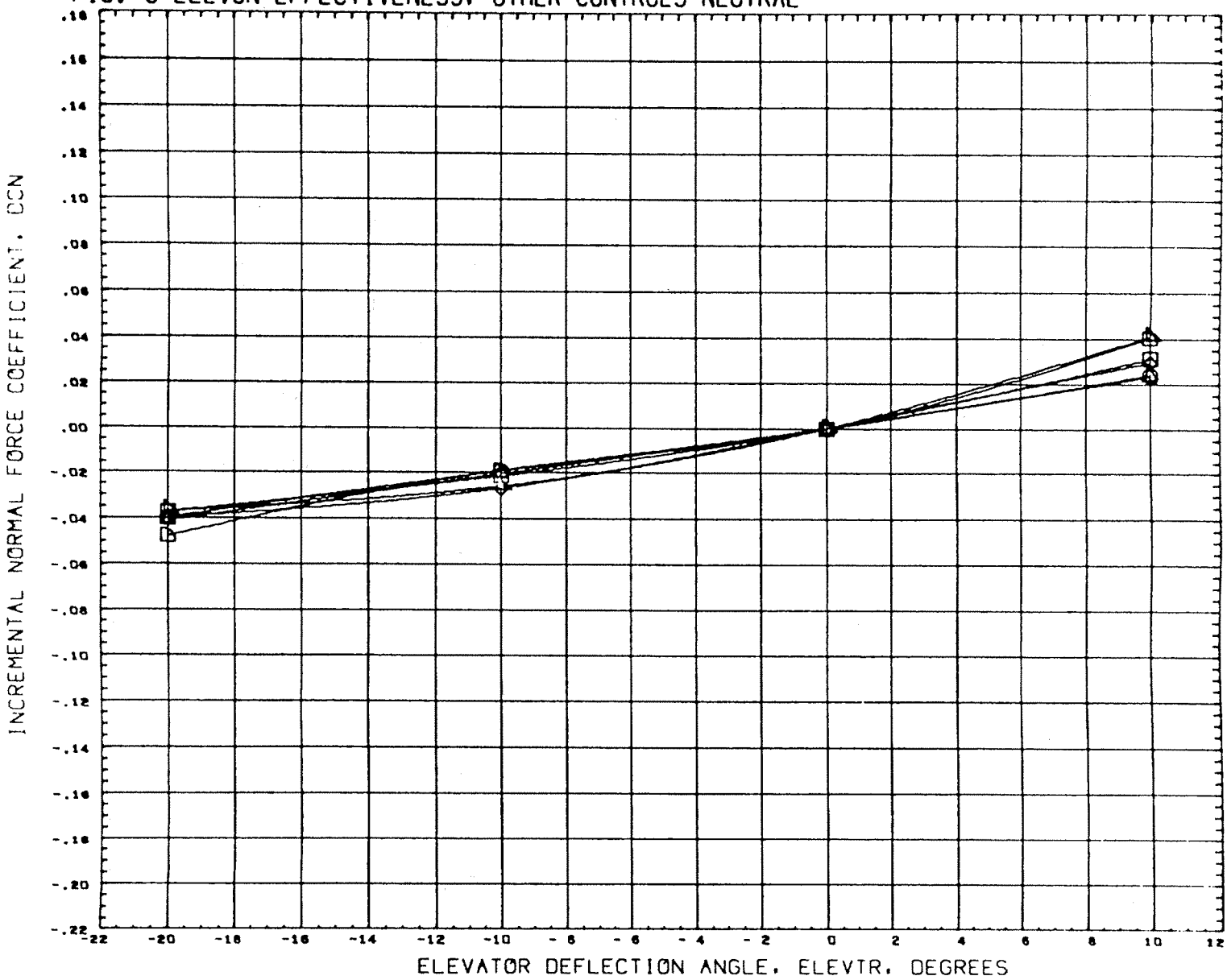
AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 163

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



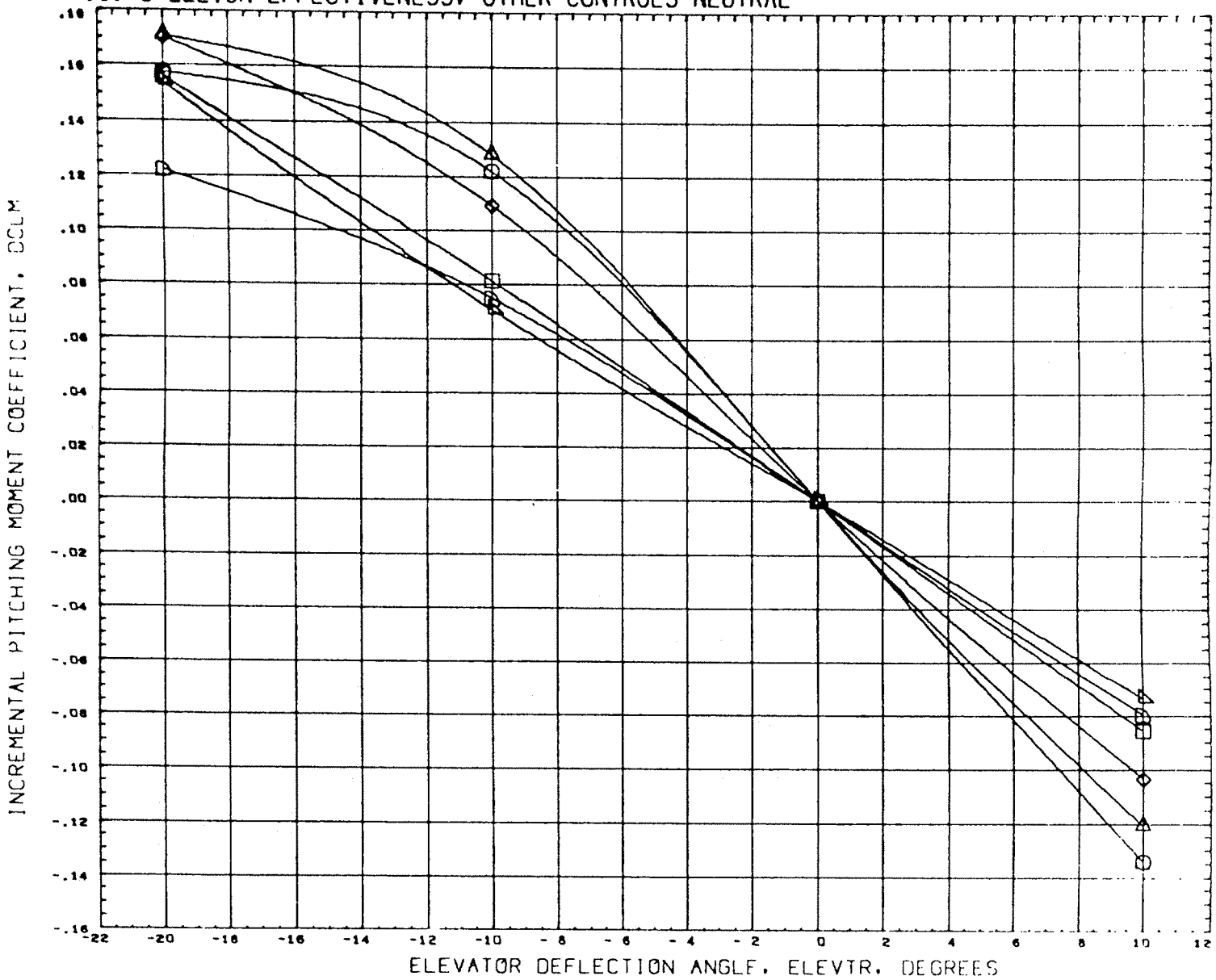
SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



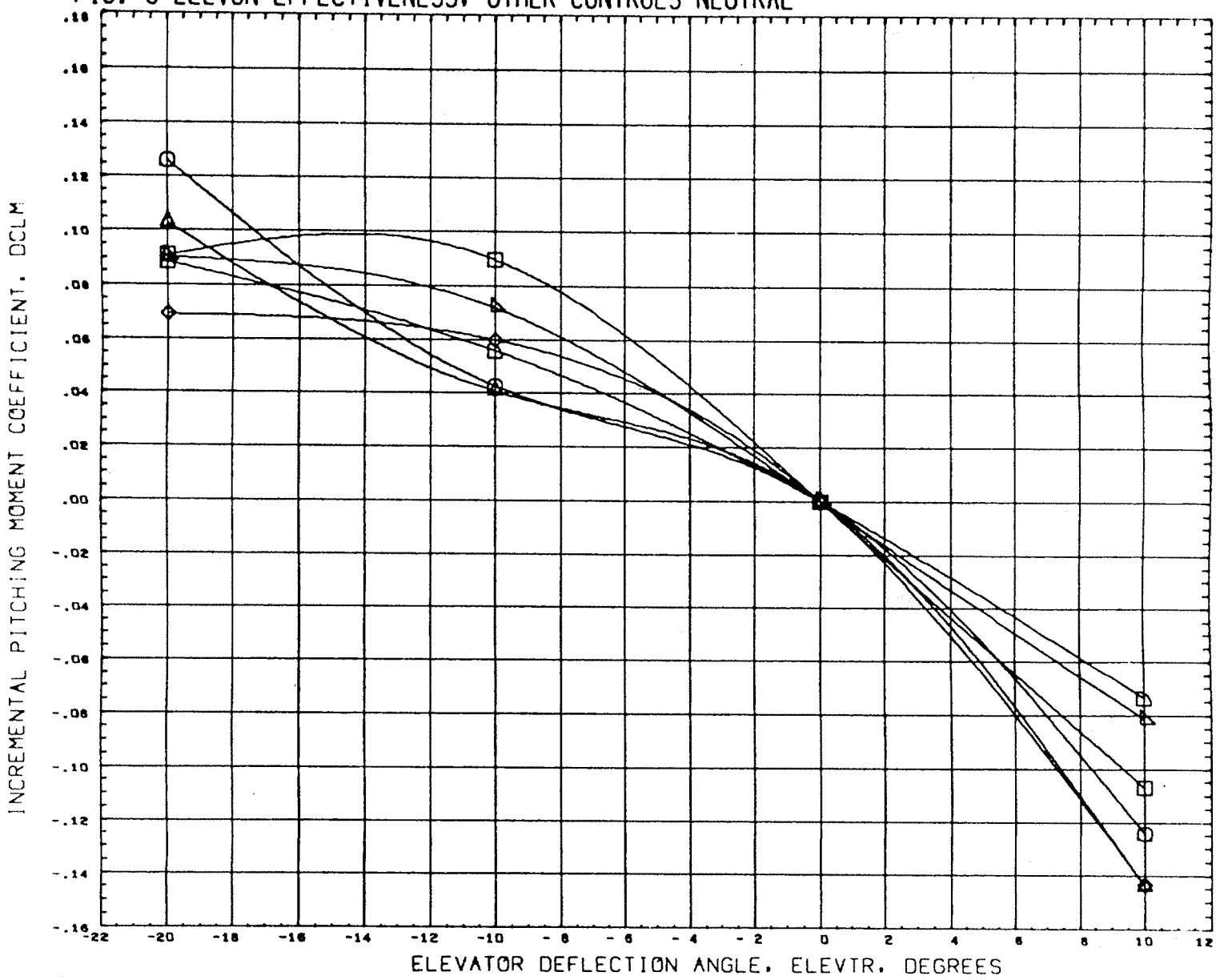
SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	2.000	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
◗	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
↗	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		
DATA HIST. CODE	CC*EI*C		

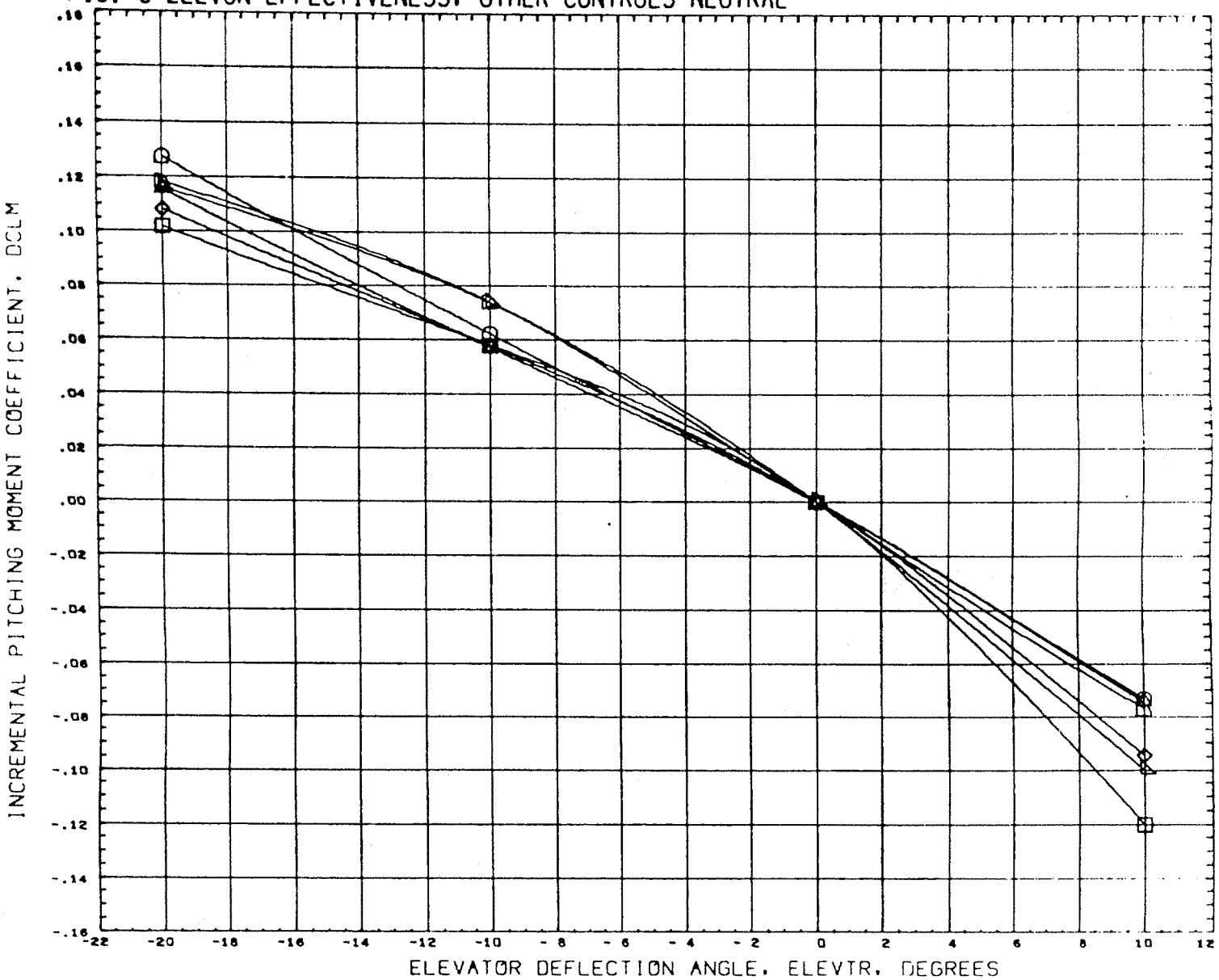
DATA SOURCE

DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

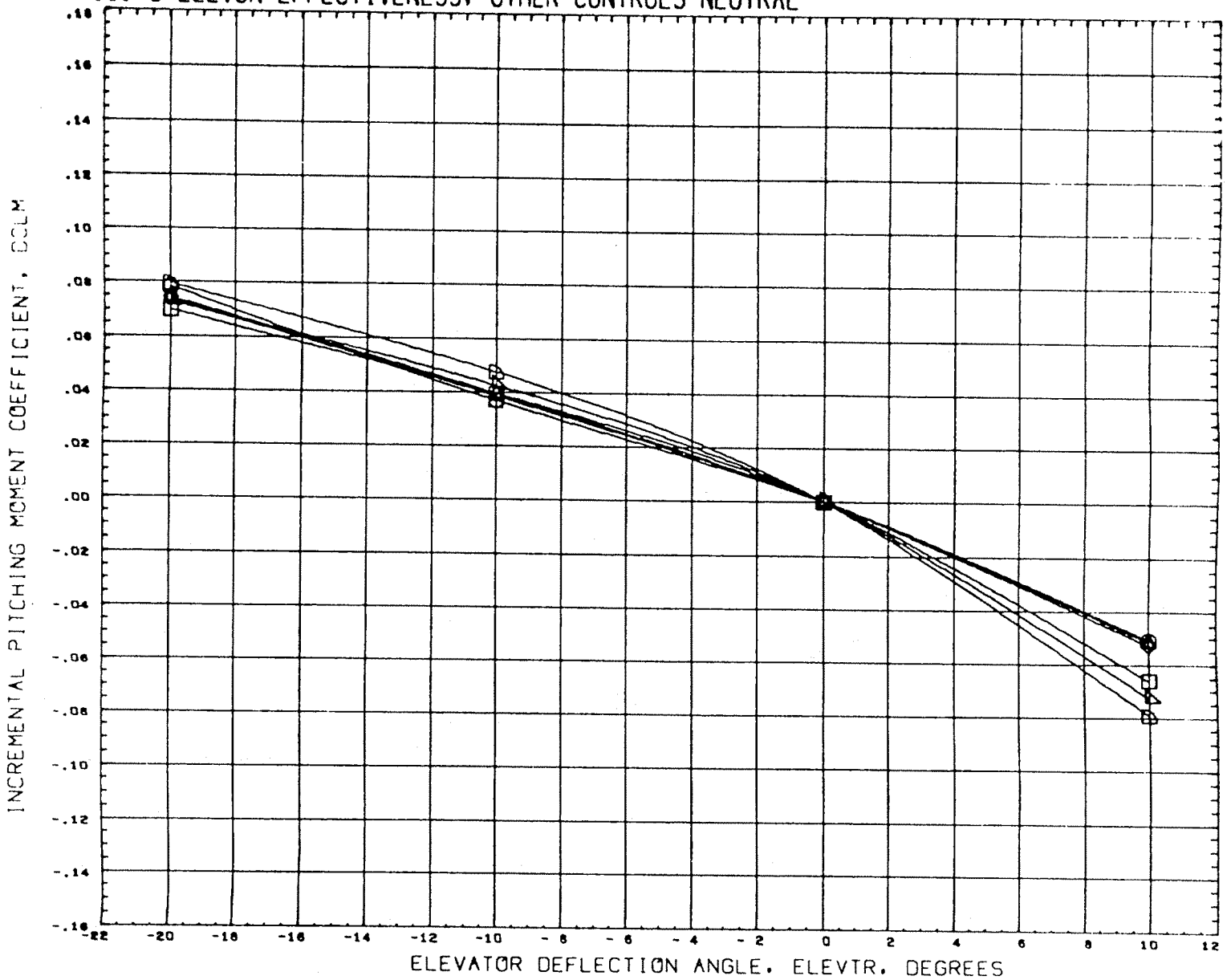
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*E1*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
⊠	20.000
D	25.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		

DATA SOURCE

DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

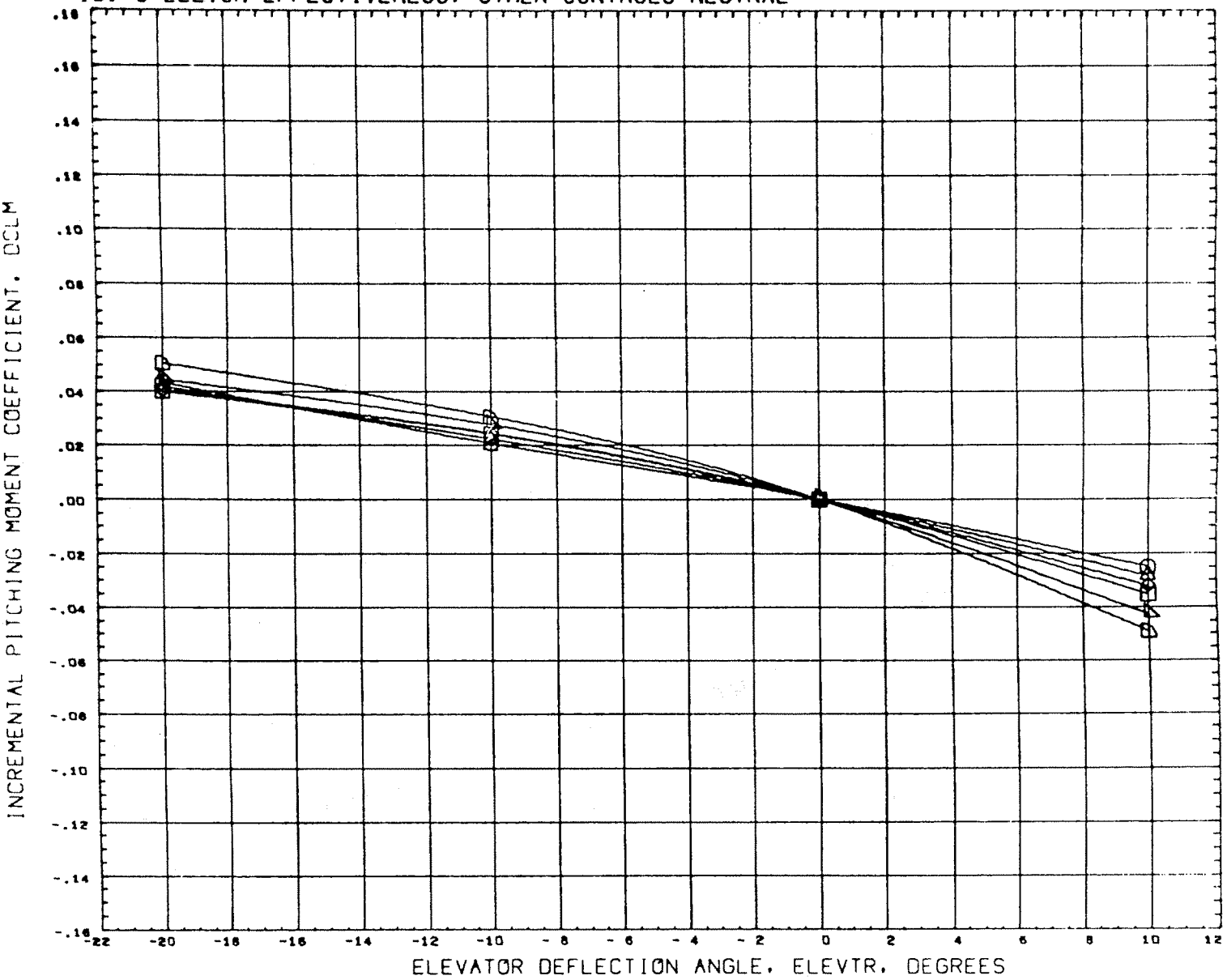
REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

DATA HIST. CODE CC*EI*C

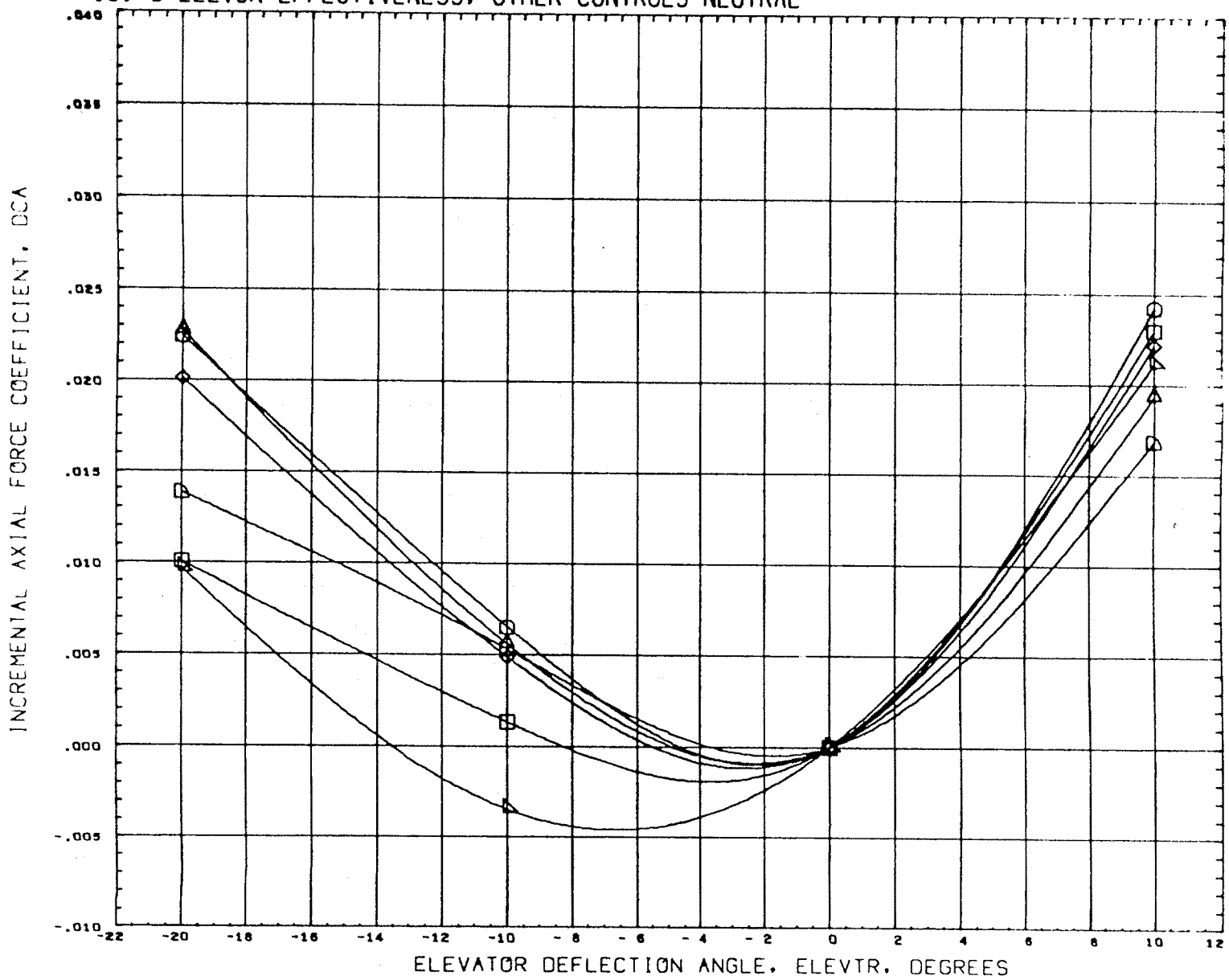
AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 169

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



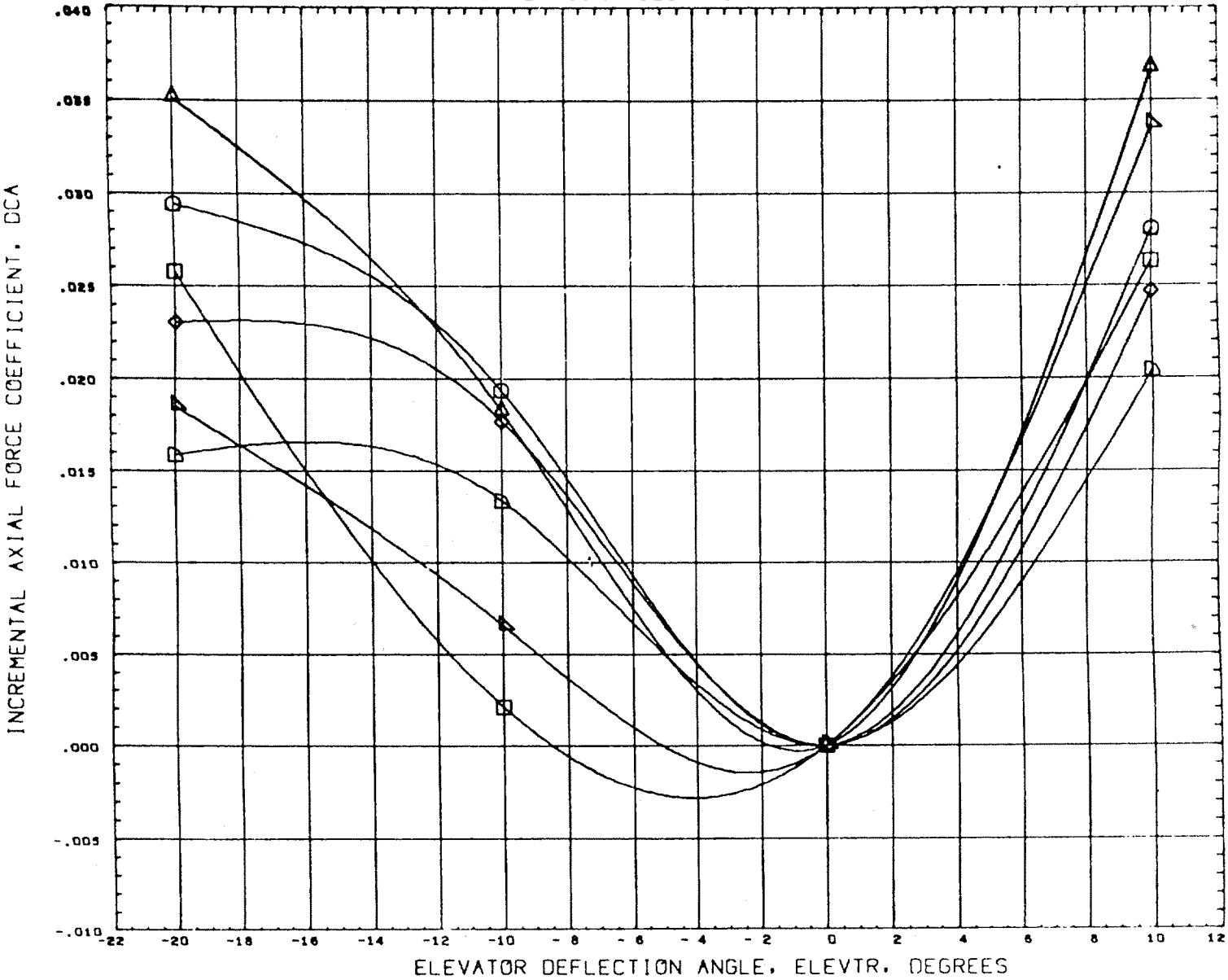
SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	2.000	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
⊘	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL

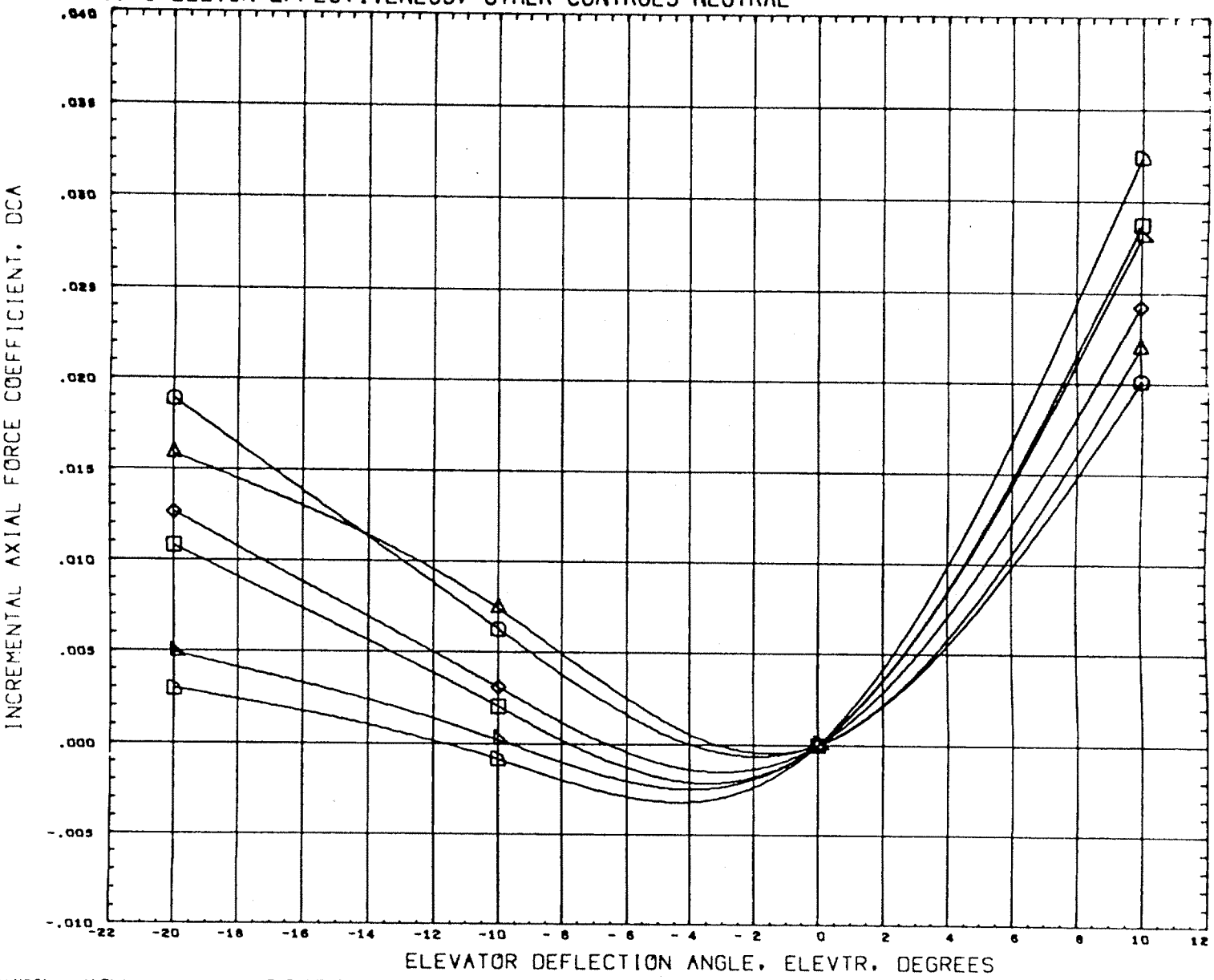


SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.900	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◁	20.000									YMRP	0.0000	IN.
▷	25.000									ZMRP	1.8160	IN.
										SCALE	0.0076	

DATA HIST. CODE CC*EI*C

AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 172

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◪	20.000
D	25.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		
DATA HIST. CODE	CC*EI*C		

DATA SOURCE

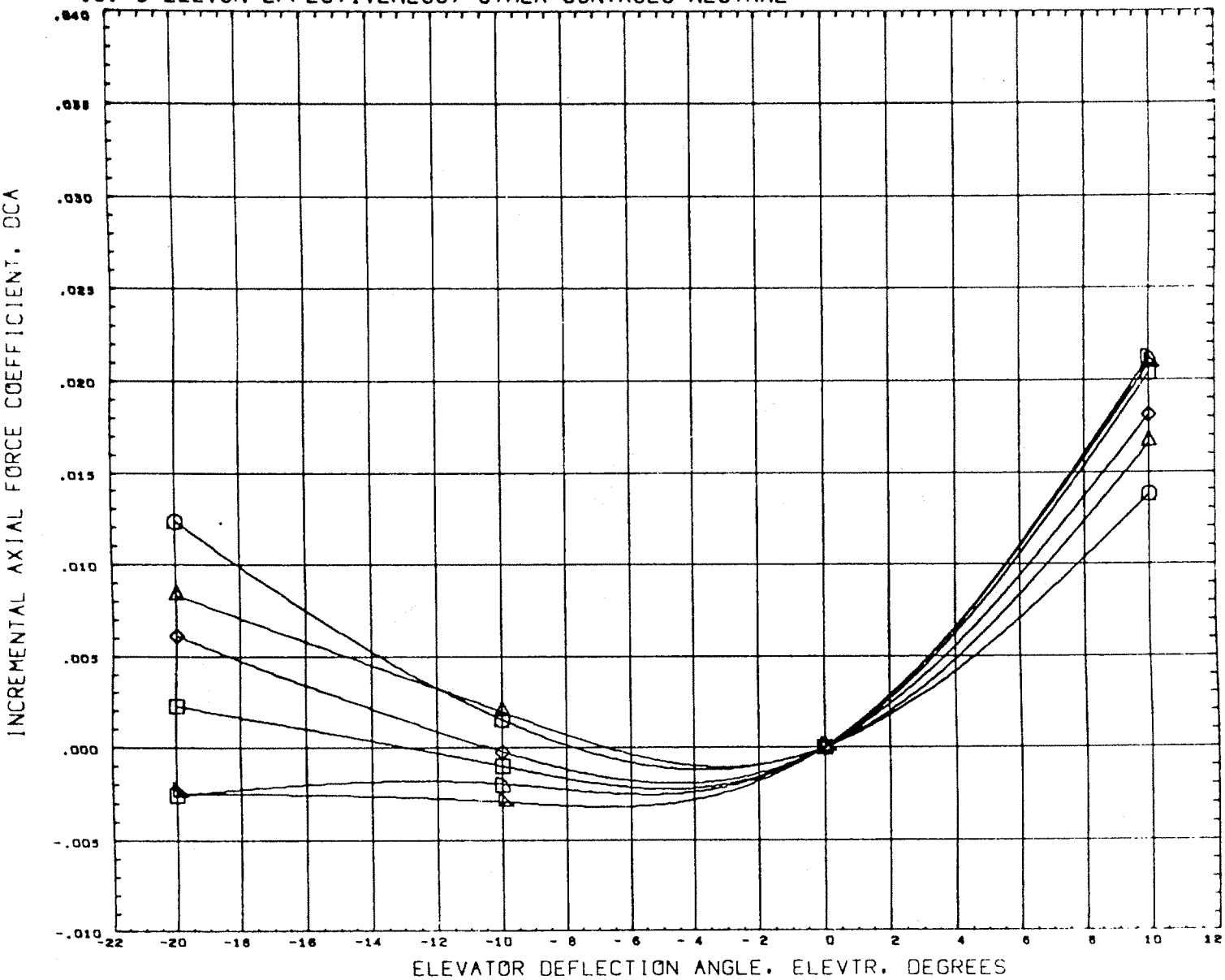
DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

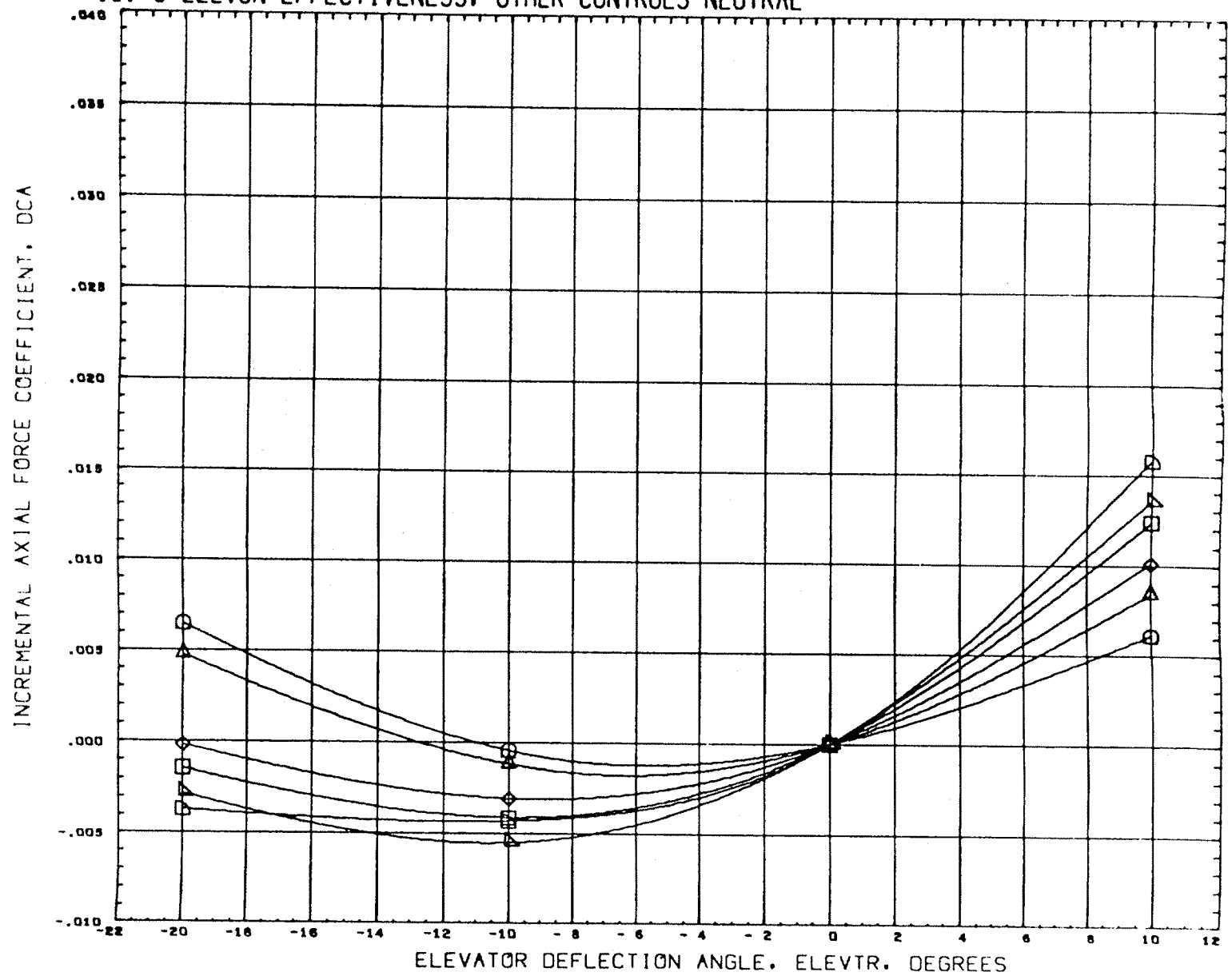
AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 173

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
	0.000	MACH	1.500	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
	15.000									XMRP	15.8500	IN.
	20.000									YMRP	0.0000	IN.
	25.000	DATA HIST. CODE	CC*E1*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◪	20.000
D	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		
DATA HIST. CODE	CC*EI*C		

DATA SOURCE

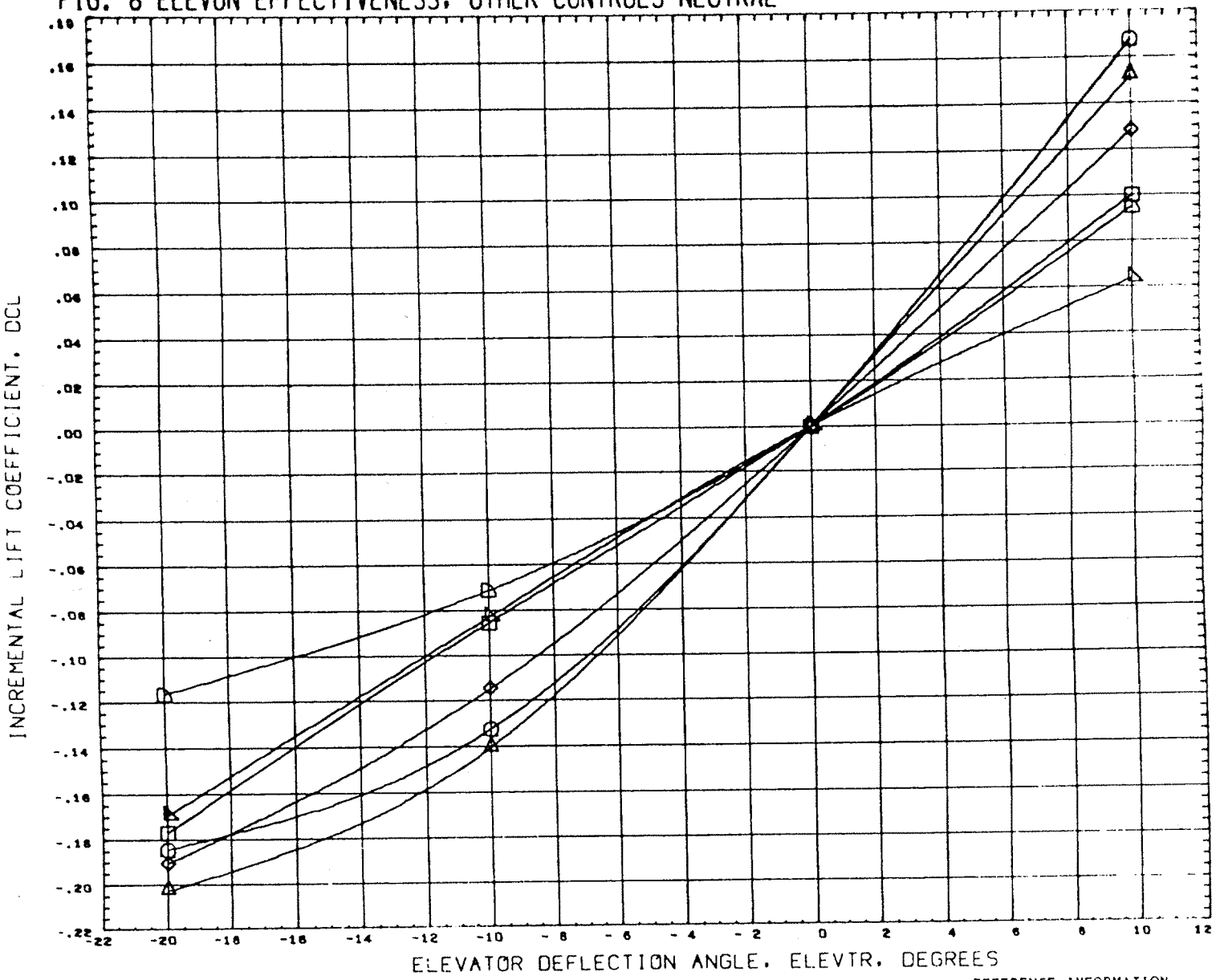
DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 175

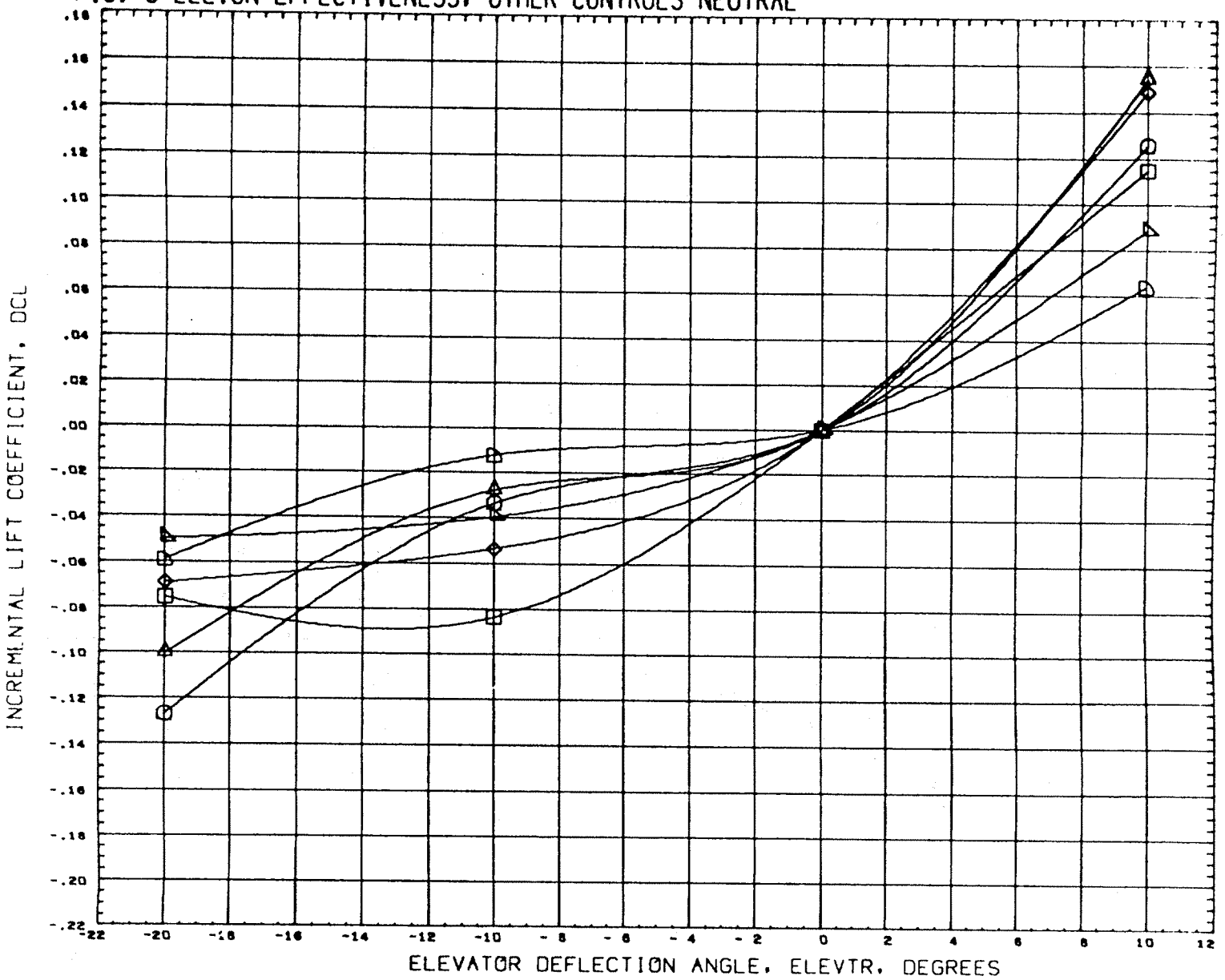
FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
⊠	20.000									YMRP	0.0000	IN.
◁	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 176

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◪	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000	
IC	0.000	AILRON	0.000	
RUDDER	0.000			
DATA HIST. CODE	CC*EI*C			

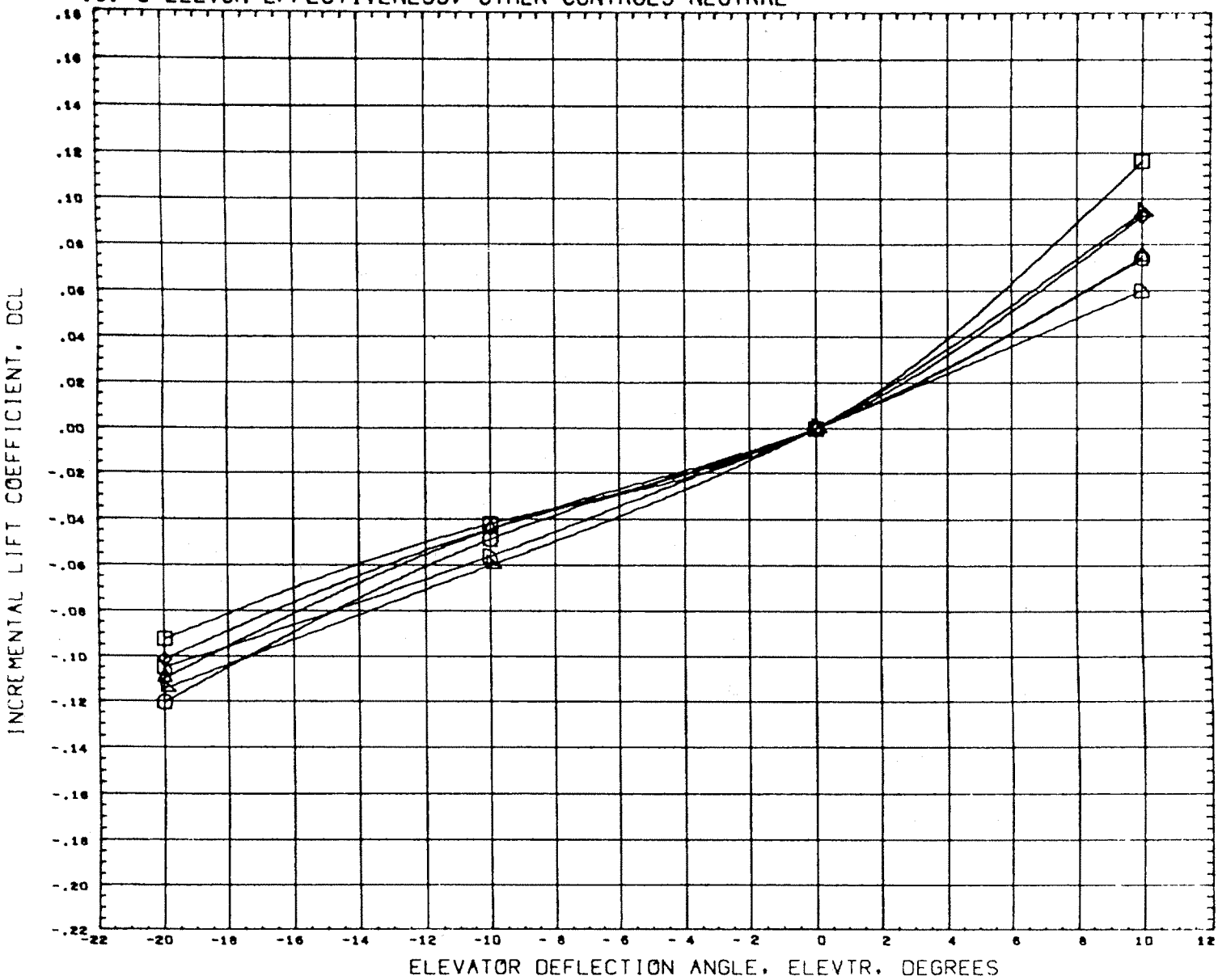
DATA SOURCE

DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

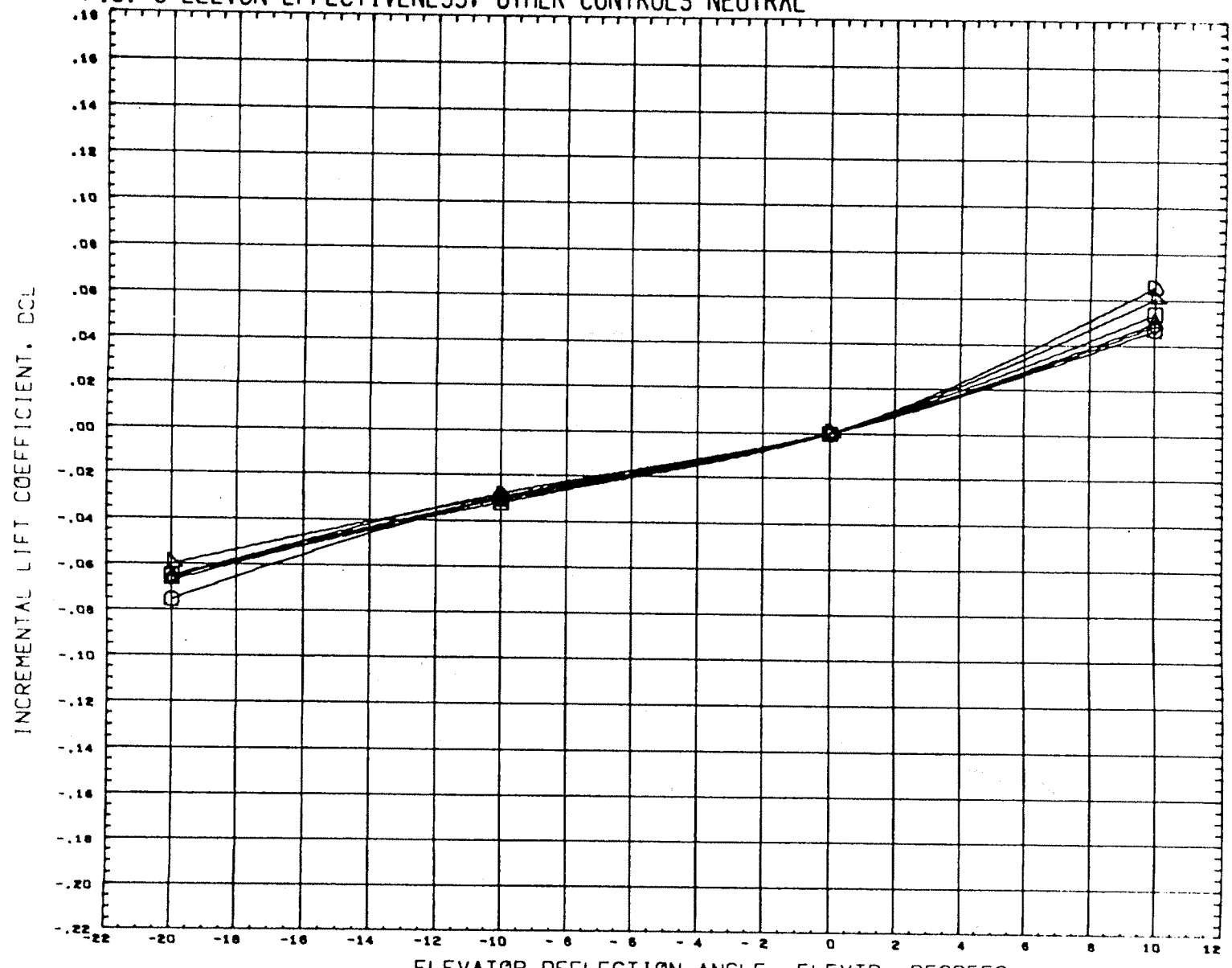
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



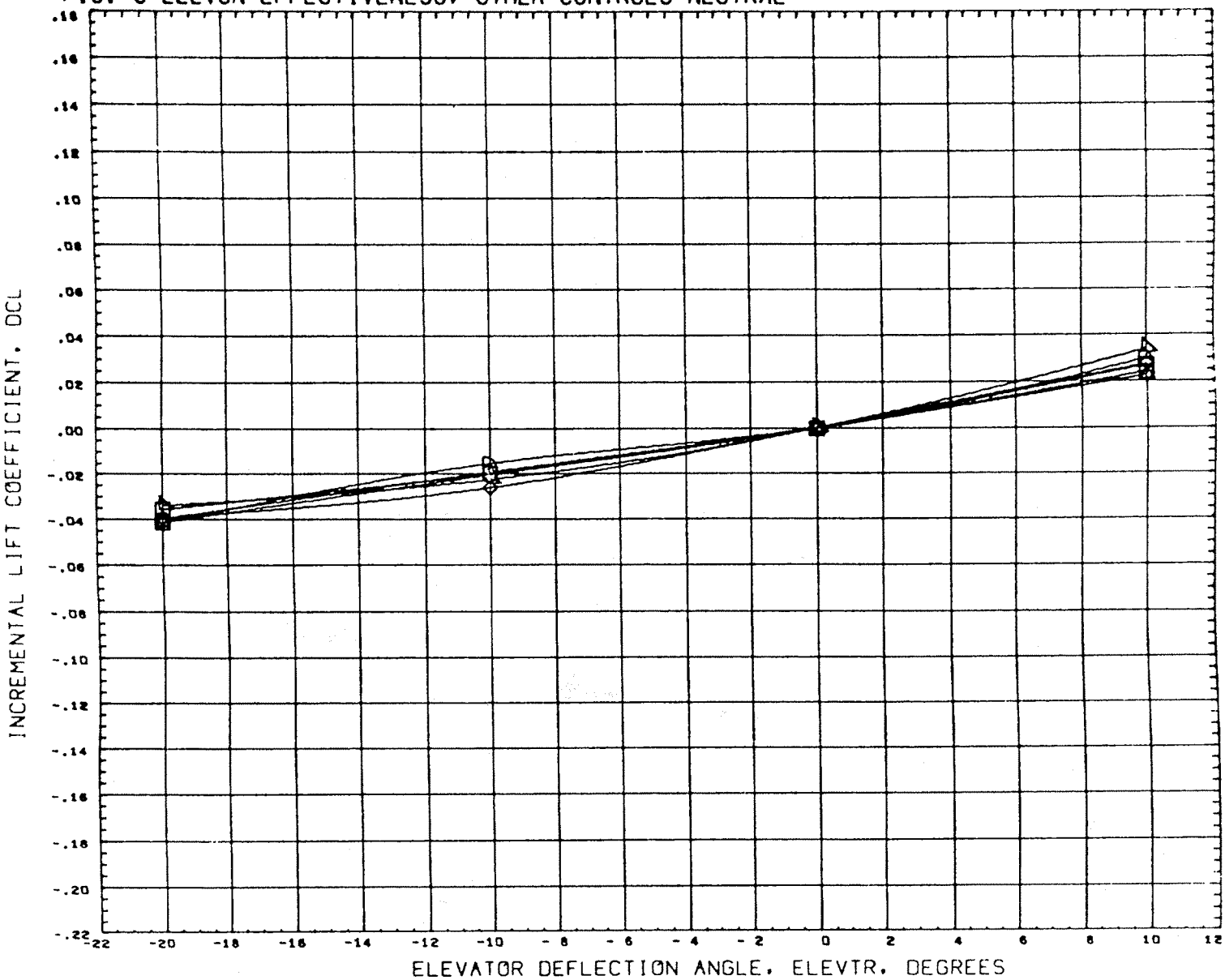
SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



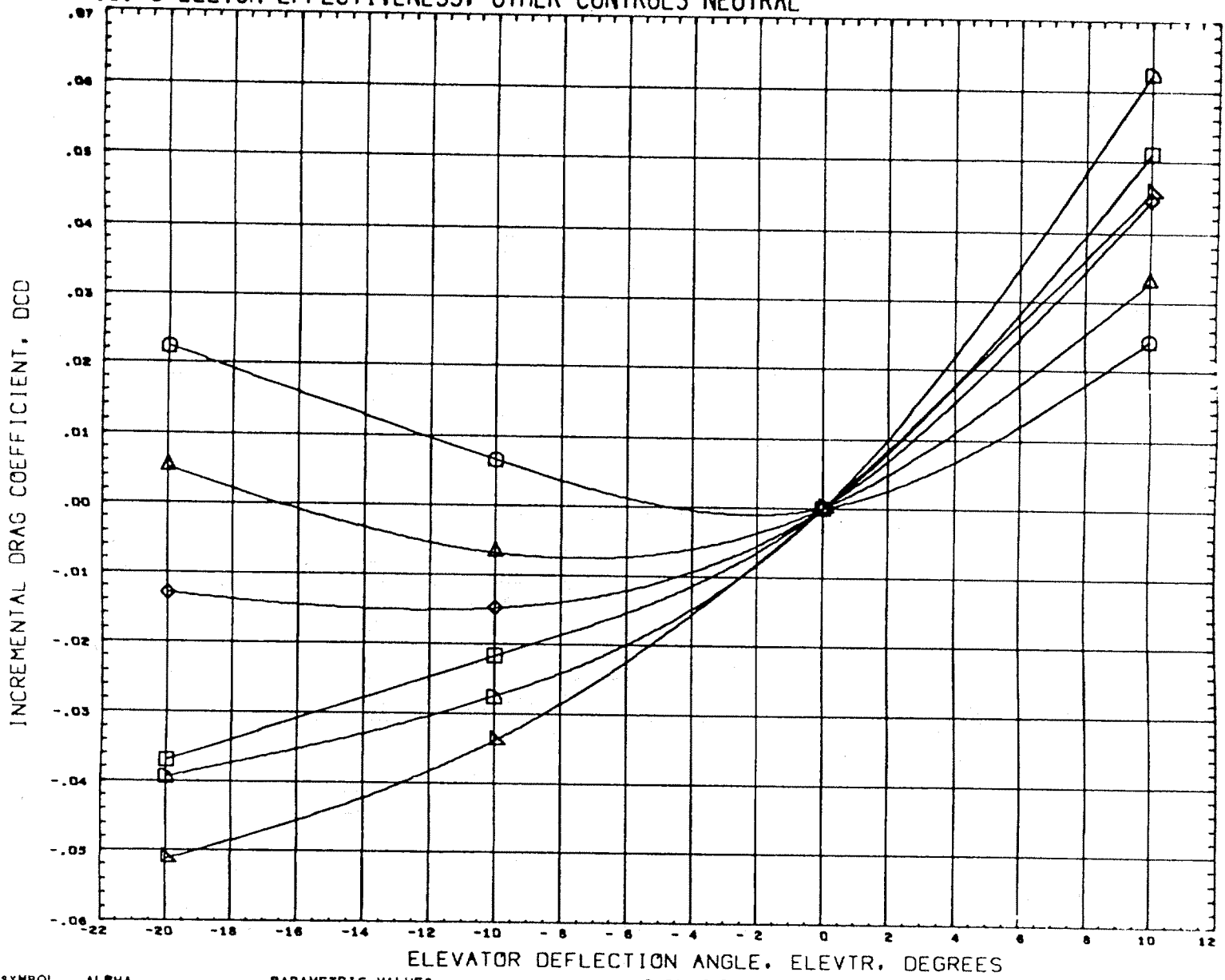
SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	2.000	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
⊠	20.000
⊡	25.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
IC	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

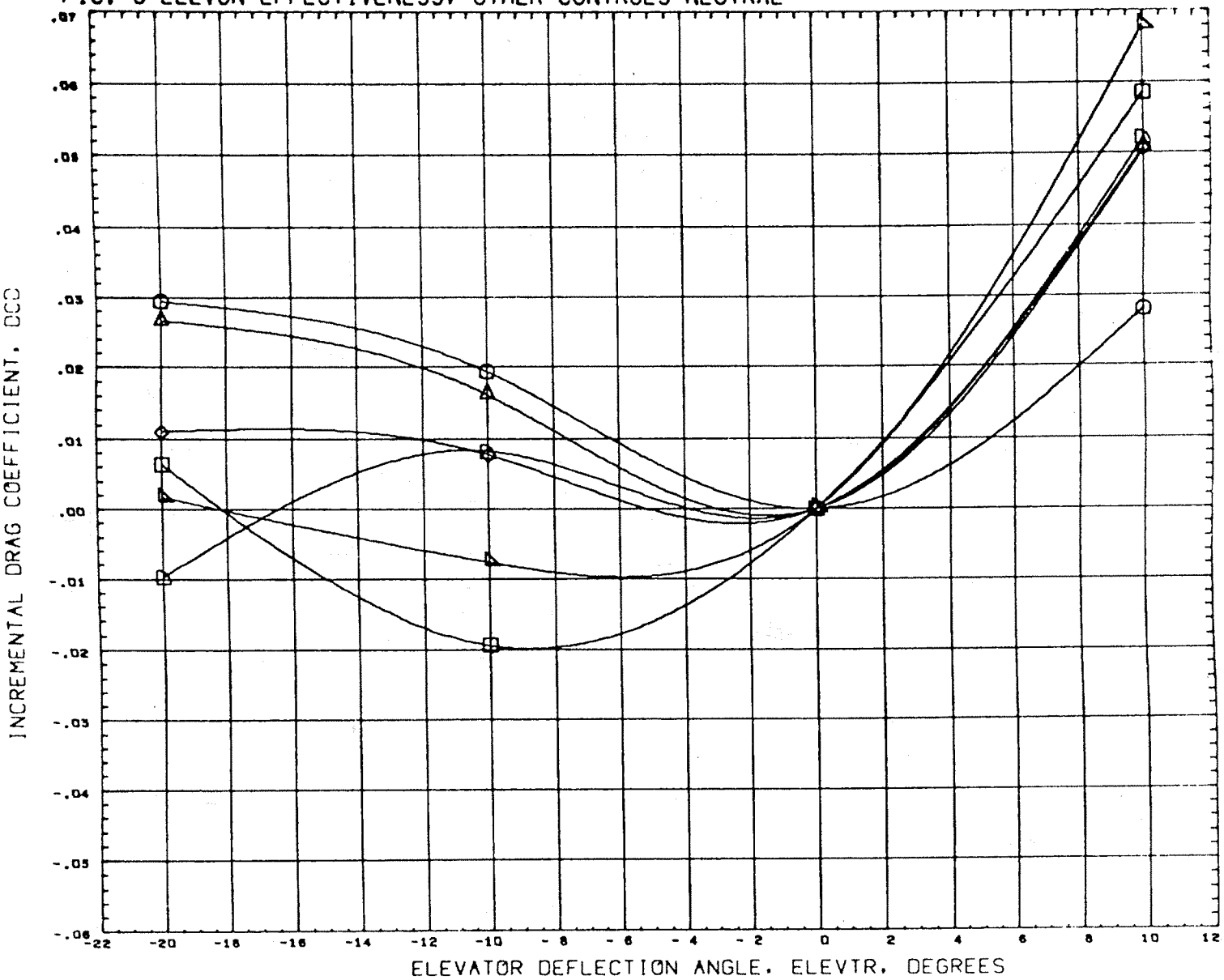
DATASET	ELEVTR	DATASET	ELEVTR
HBA255	- 20.000	HBA253	- 10.000
HBA250	0.000	HBA254	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

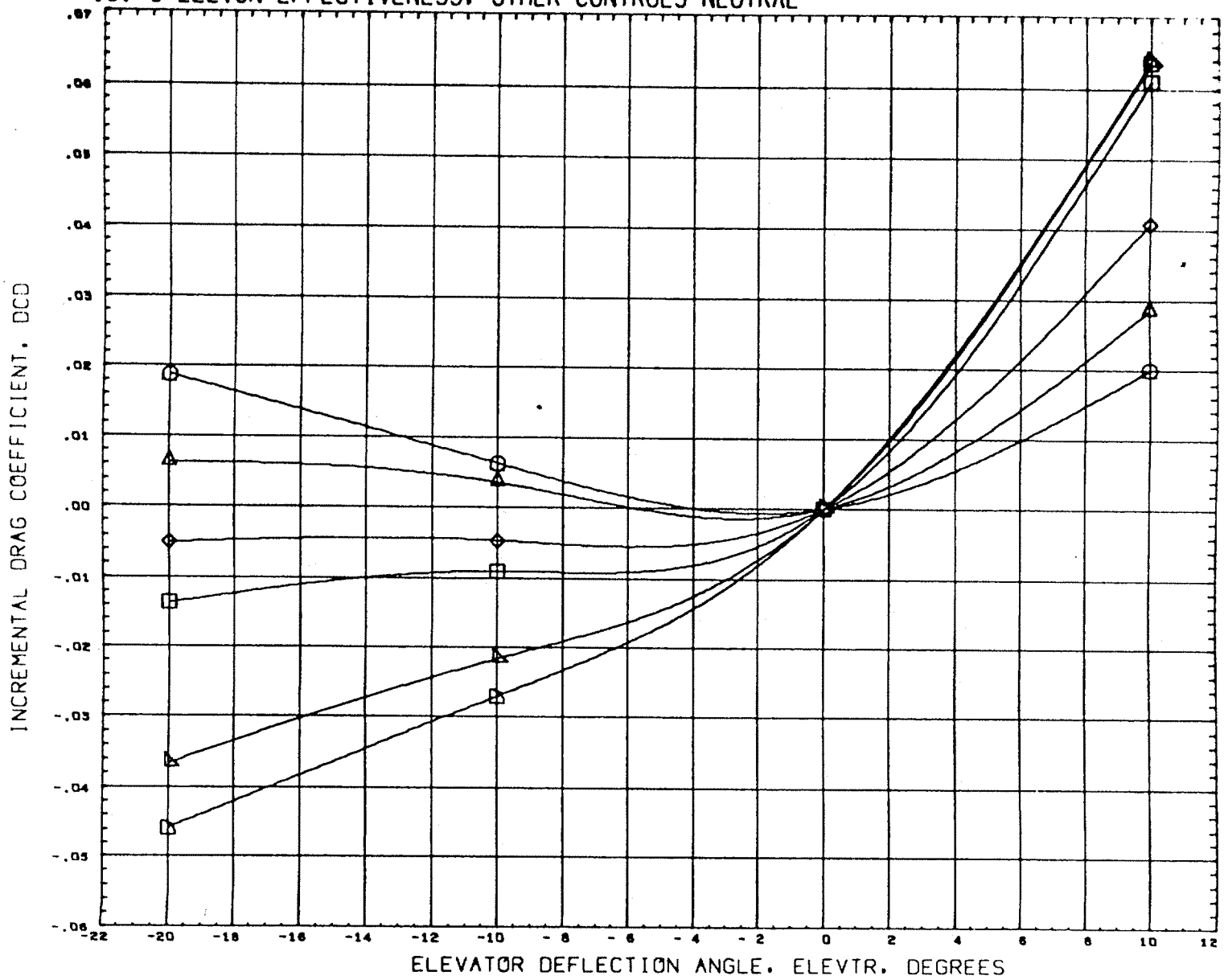
AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 181

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



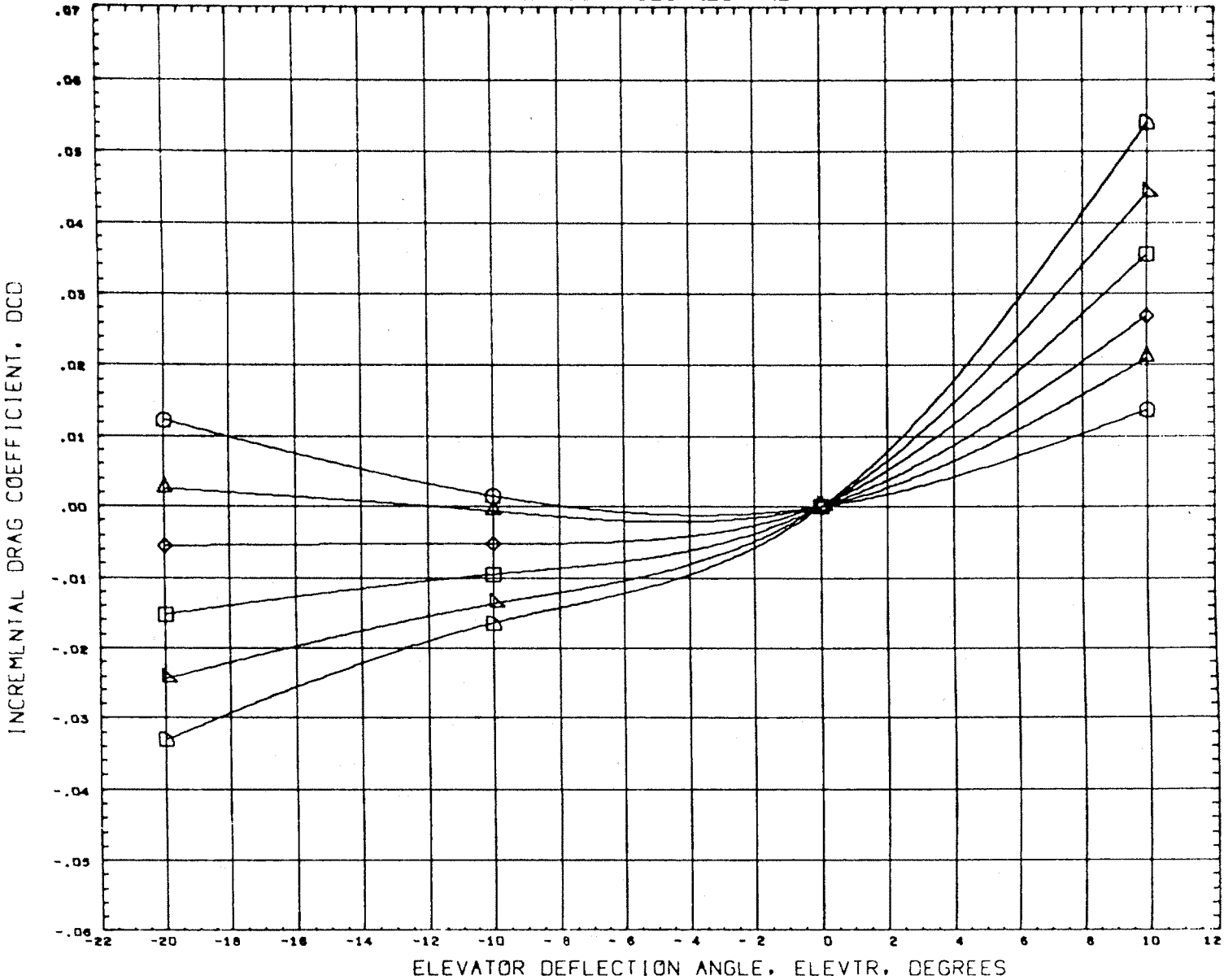
SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
	0.000	MACH	0.900	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
	15.000									XMRP	15.8500	IN.
	20.000									YMRP	0.0000	IN.
	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



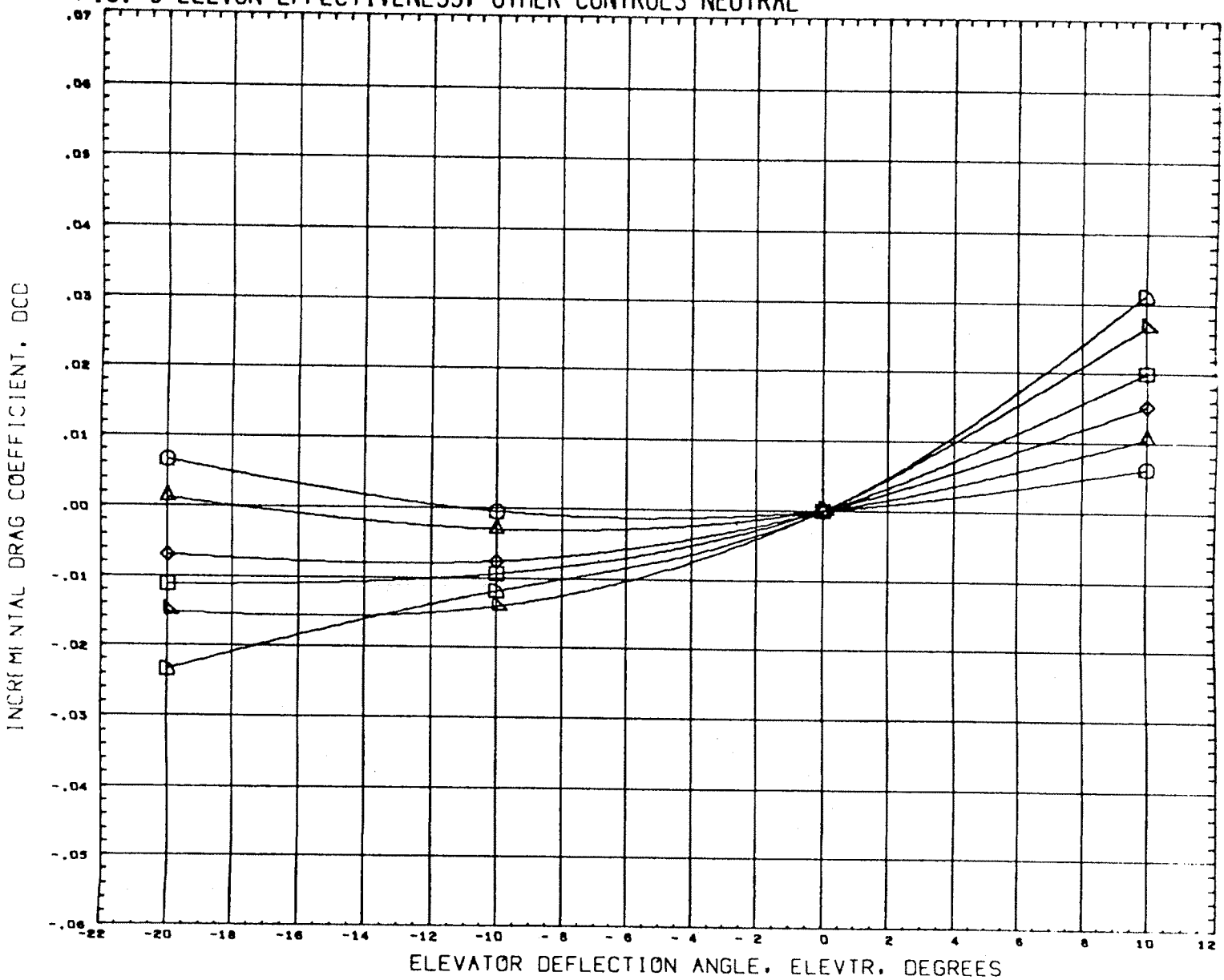
SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
	0.000	MACH	1.200	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
	15.000									XMRP	15.8500	IN.
	20.000									YMRP	0.0000	IN.
	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	13.8500	IN.
◺	20.000									YMRP	0.0000	IN.
◗	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

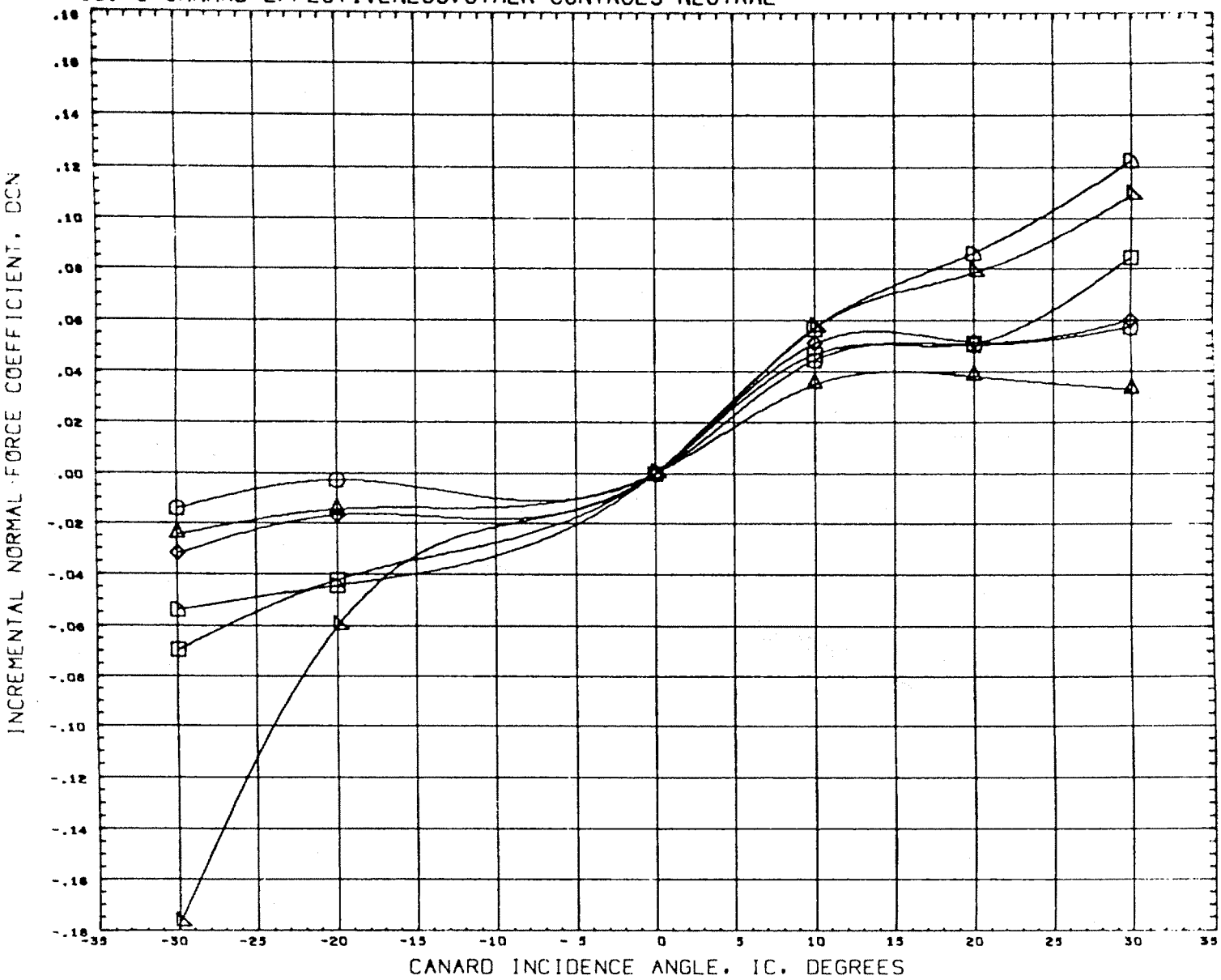
FIG. 8 ELEVON EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	2.000	BETA	0.000	DATASET	ELEVTR	DATASET	ELEVTR	SREF	70.1950	SQ.IN.
△	5.000	IC	0.000	AILRON	0.000	HBA255	- 20.000	HBA253	- 10.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			HBA250	0.000	HBA254	10.000	BREF	13.0860	IN.
□	15.000									XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
◫	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(E=XX-E=0.) (HBA255) 06 MAY 72 PAGE 185

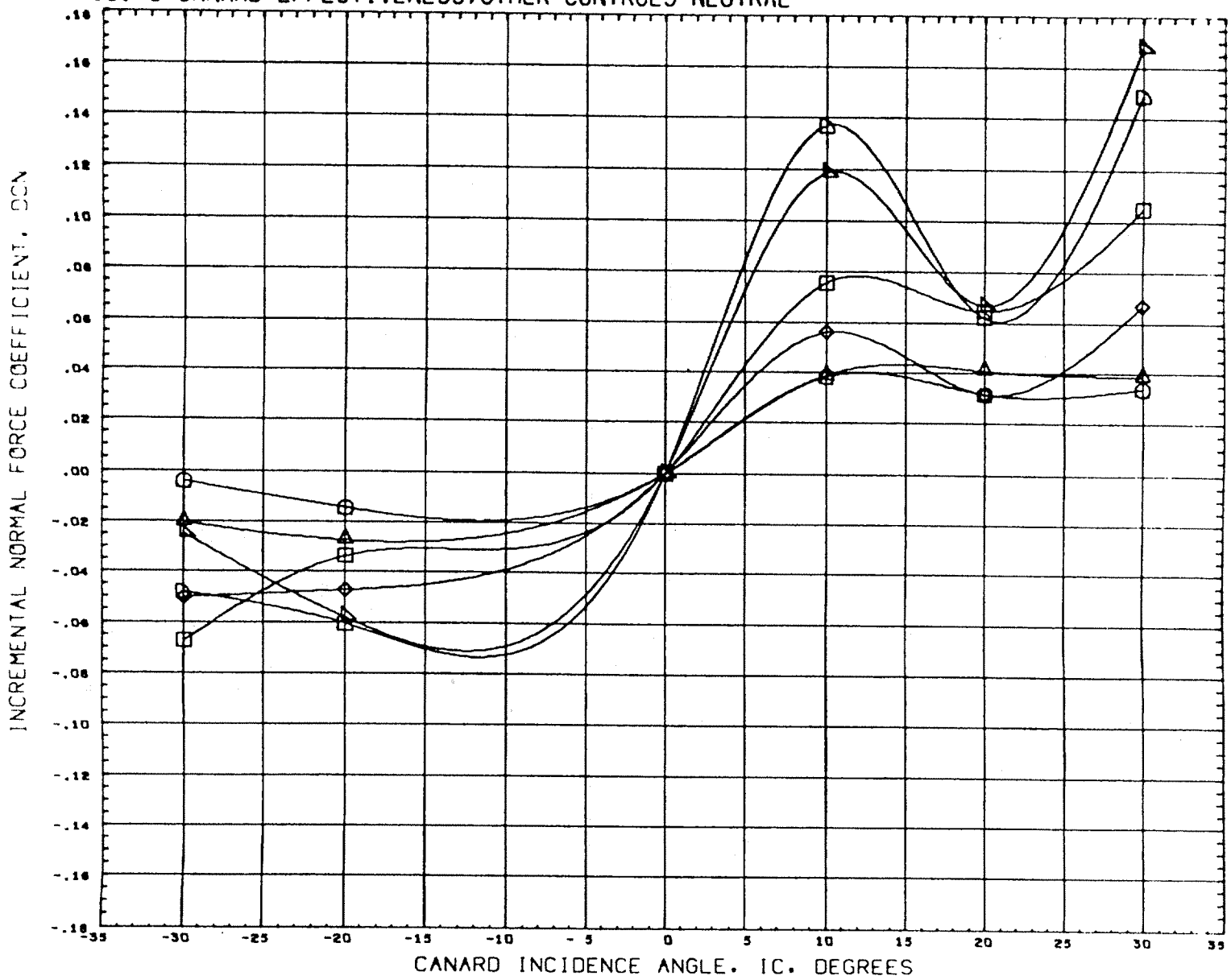
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
◫	25.000									ZMRP	1.8160	IN.
										SCALE	0.0076	

DATA HIST. CODE CC*EI*C

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◪	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000	
ELEVTR	0.000	AILRON	0.000	
RUDDER	0.000			
DATA HIST. CODE	CC*EI*C			

DATA SOURCE

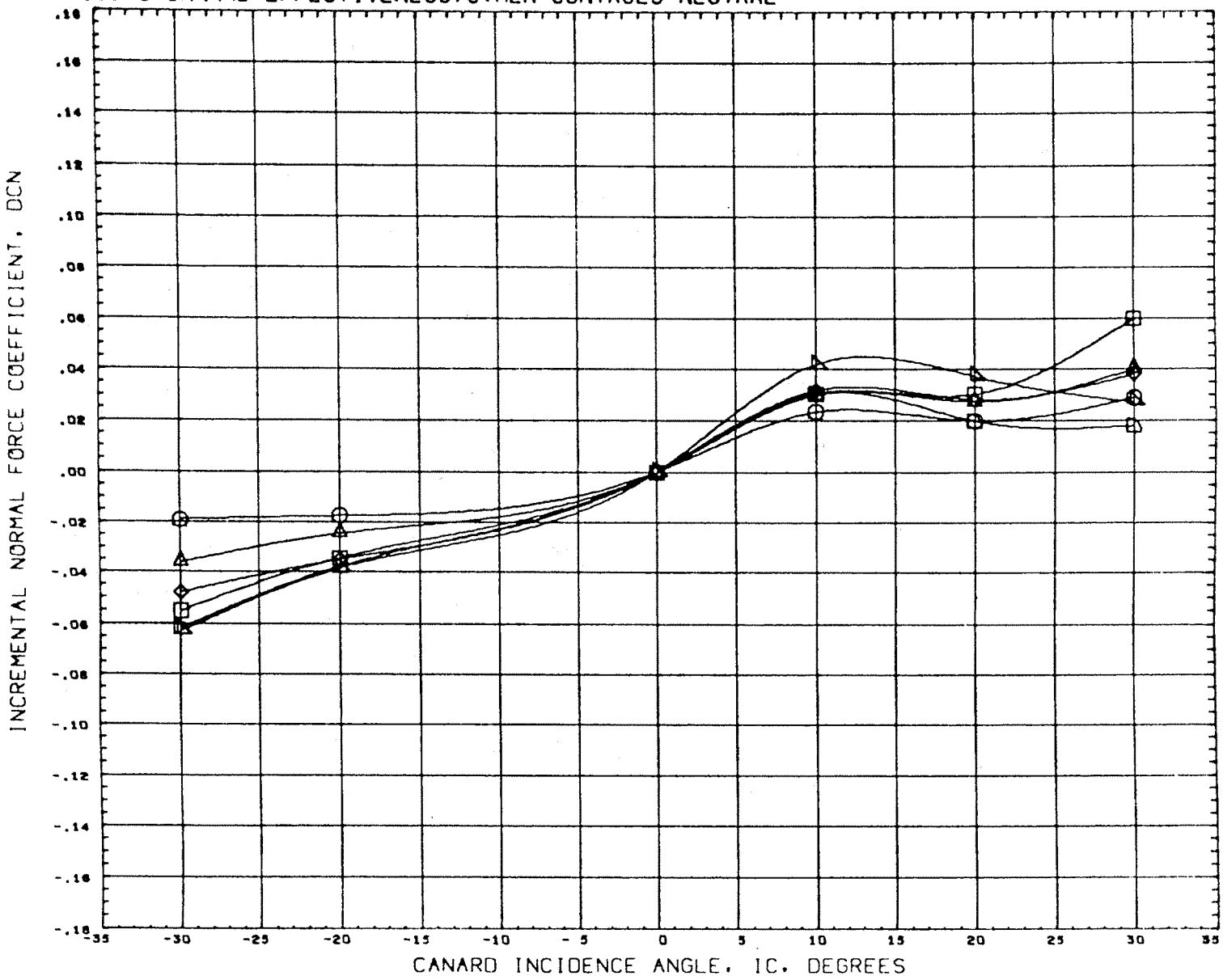
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 187

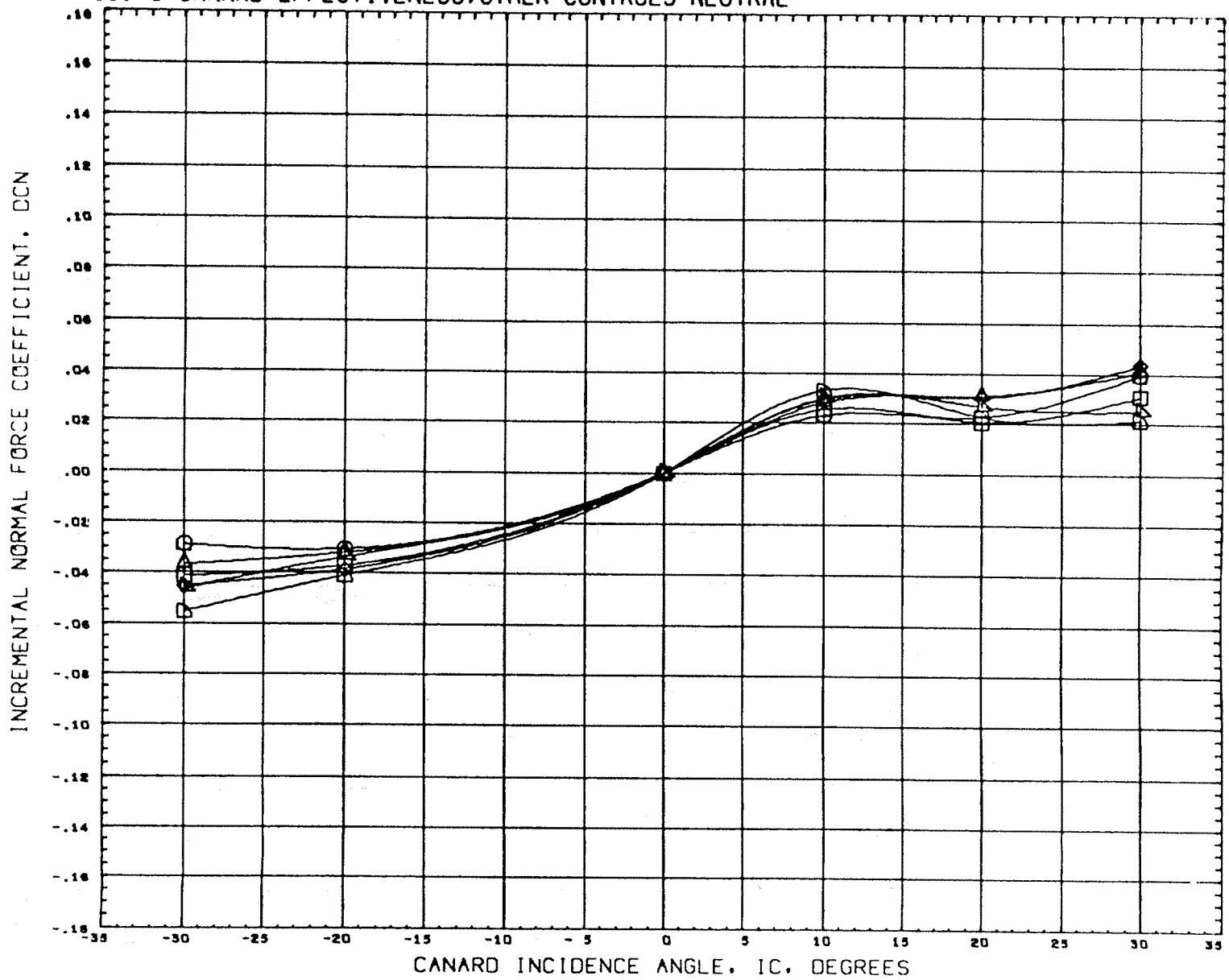
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0078	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 188

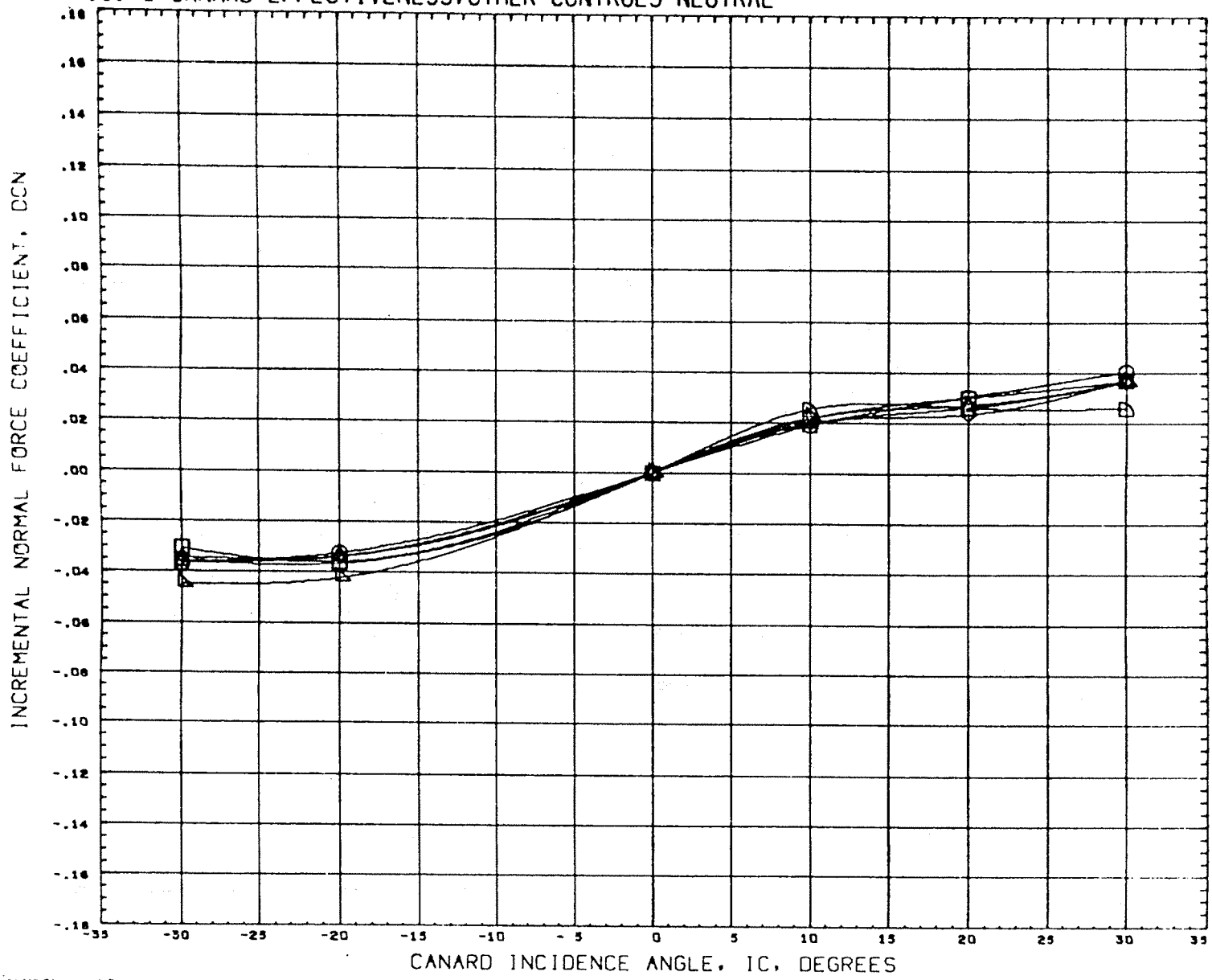
FIG. 9 CANARD EFFECTIVENESS.OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◪	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 189

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◸	20.000
D	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

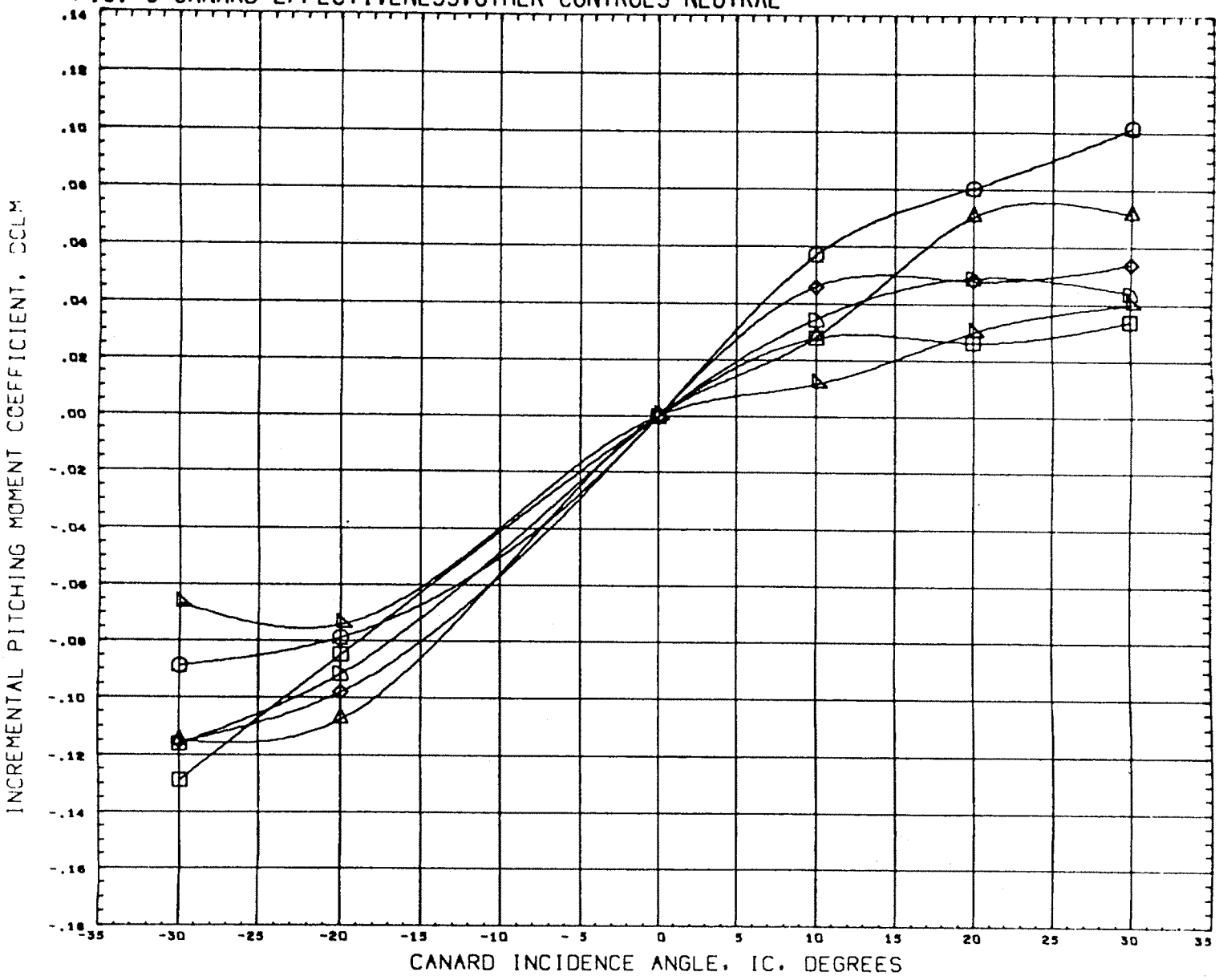
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 190

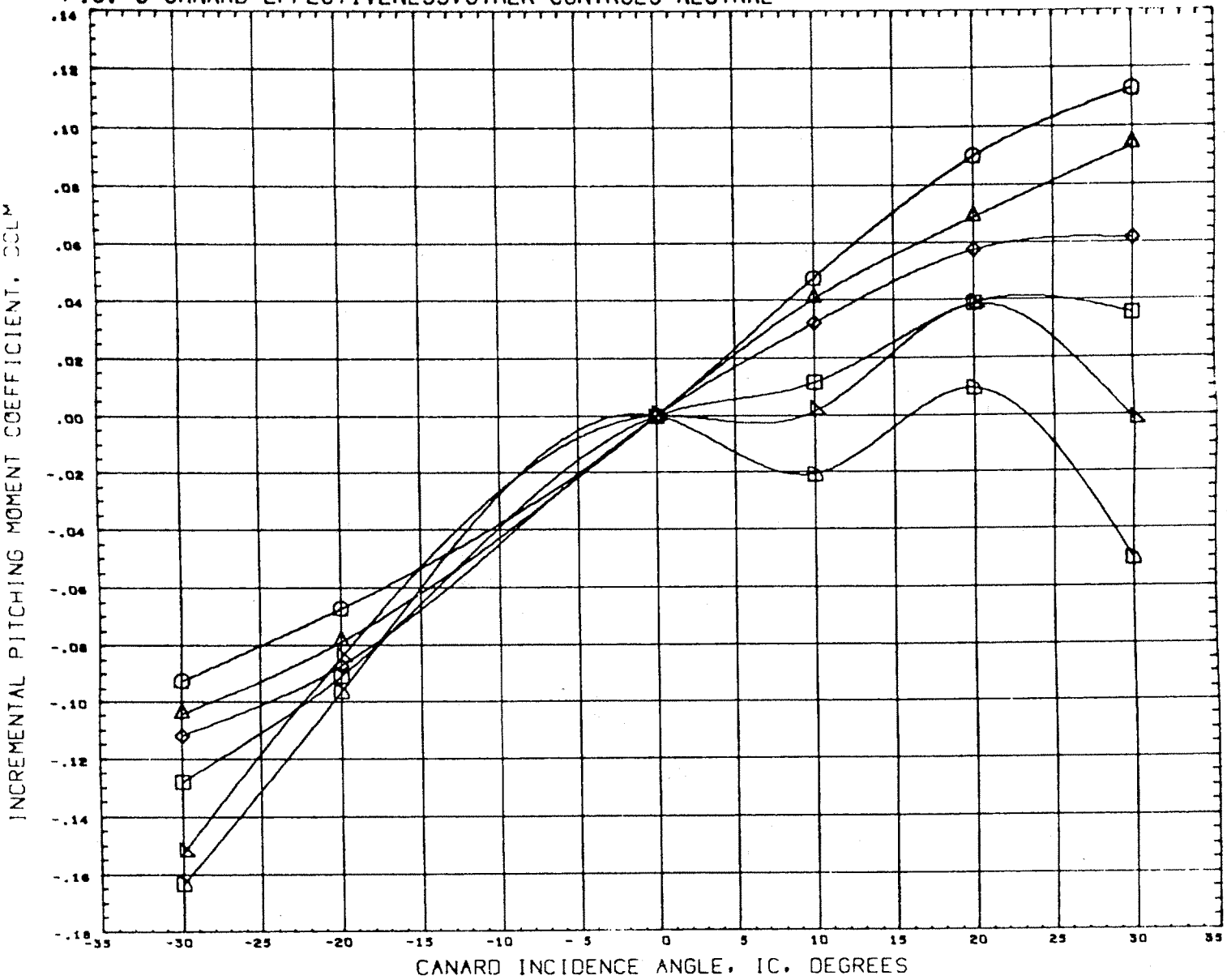
FIG. 9 CANARD EFFECTIVENESS.OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◁	20.000									YMRP	0.0000	IN.
▷	25.000	DATA HIST. CODE		CC*E1*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 191

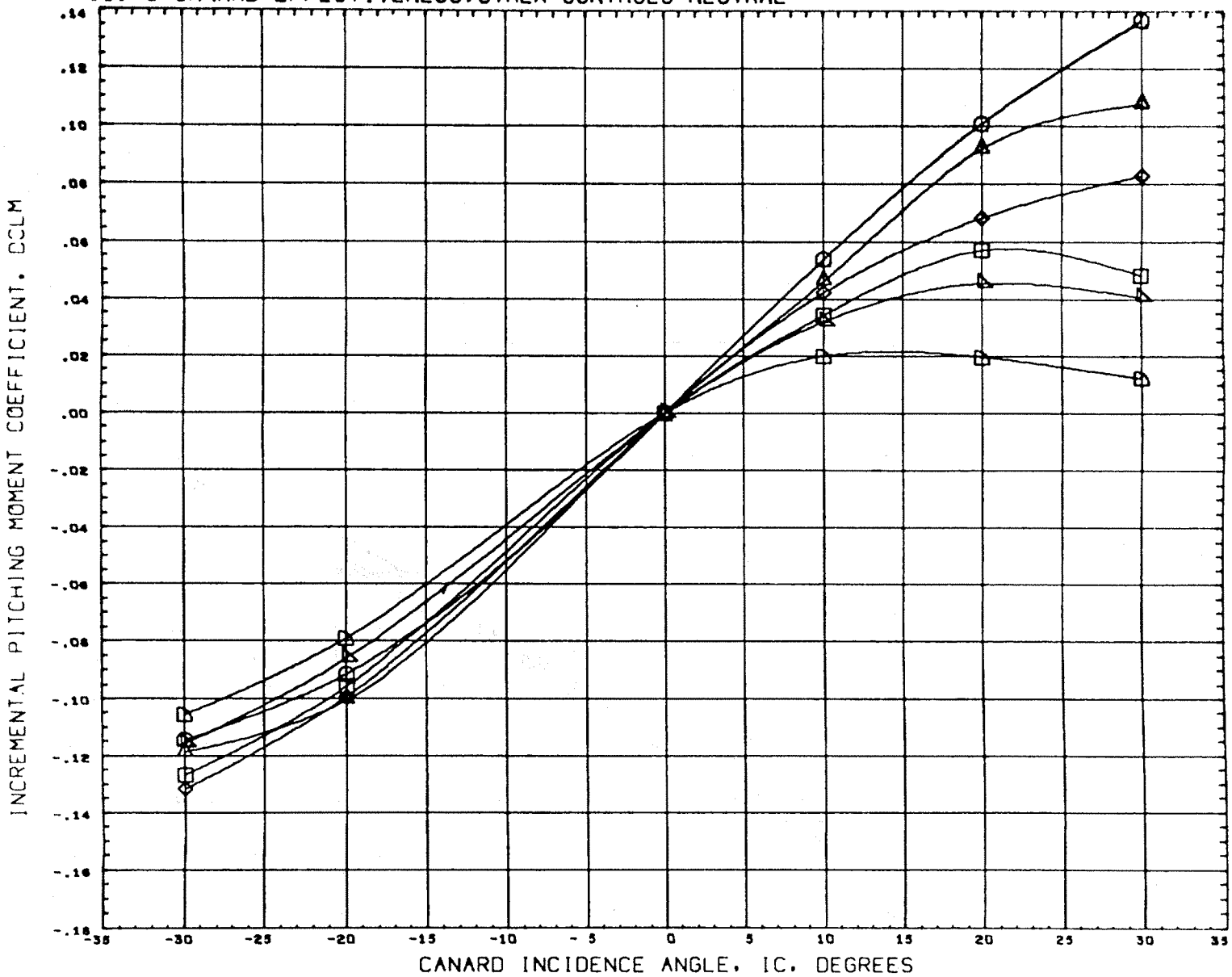
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.900	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◺	20.000									YMRP	0.0000	IN.
◺	25.000	DATA HIST. CODE	CC*E1*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 192

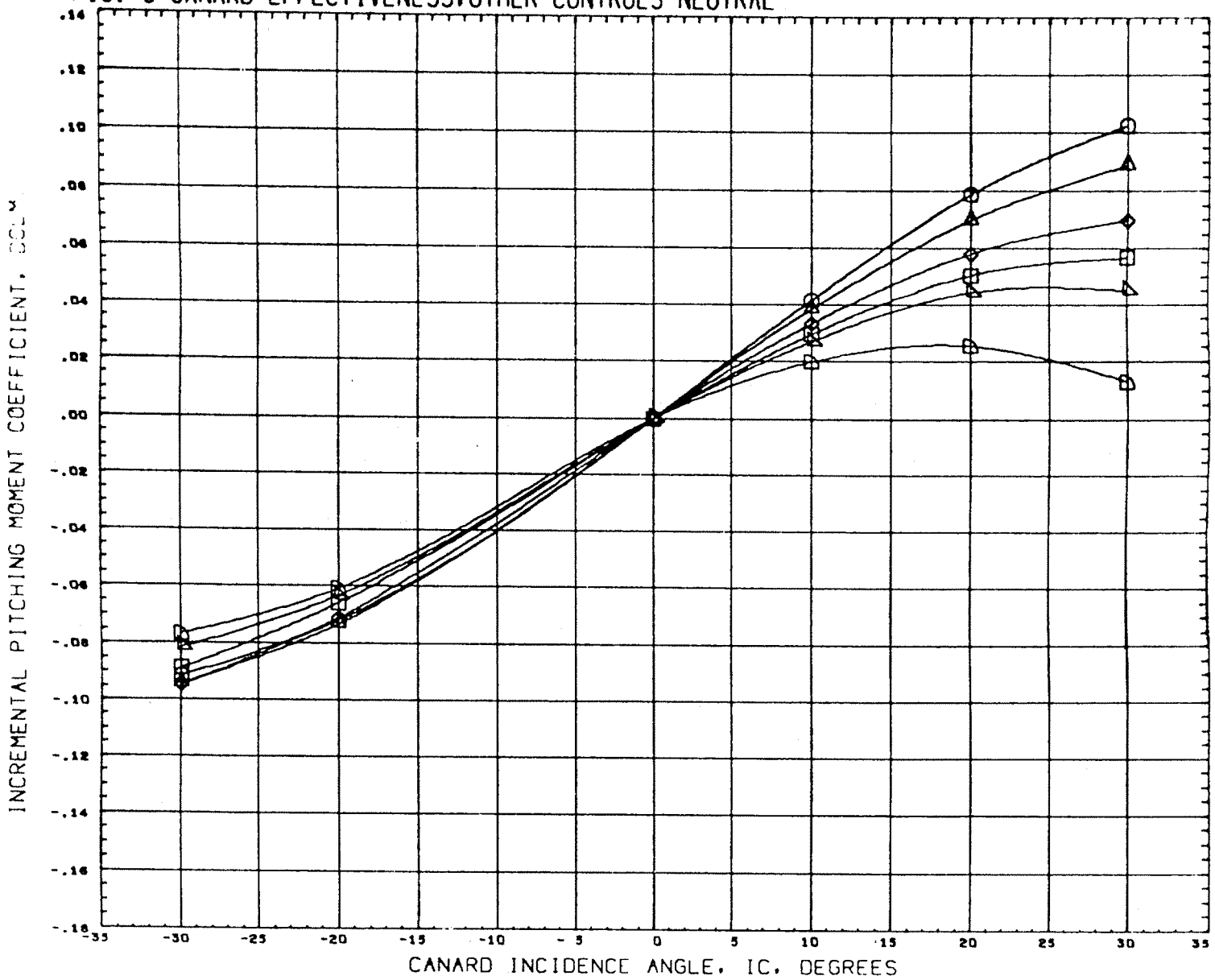
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◺	20.000									YMRP	0.0000	IN.
◺	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 193

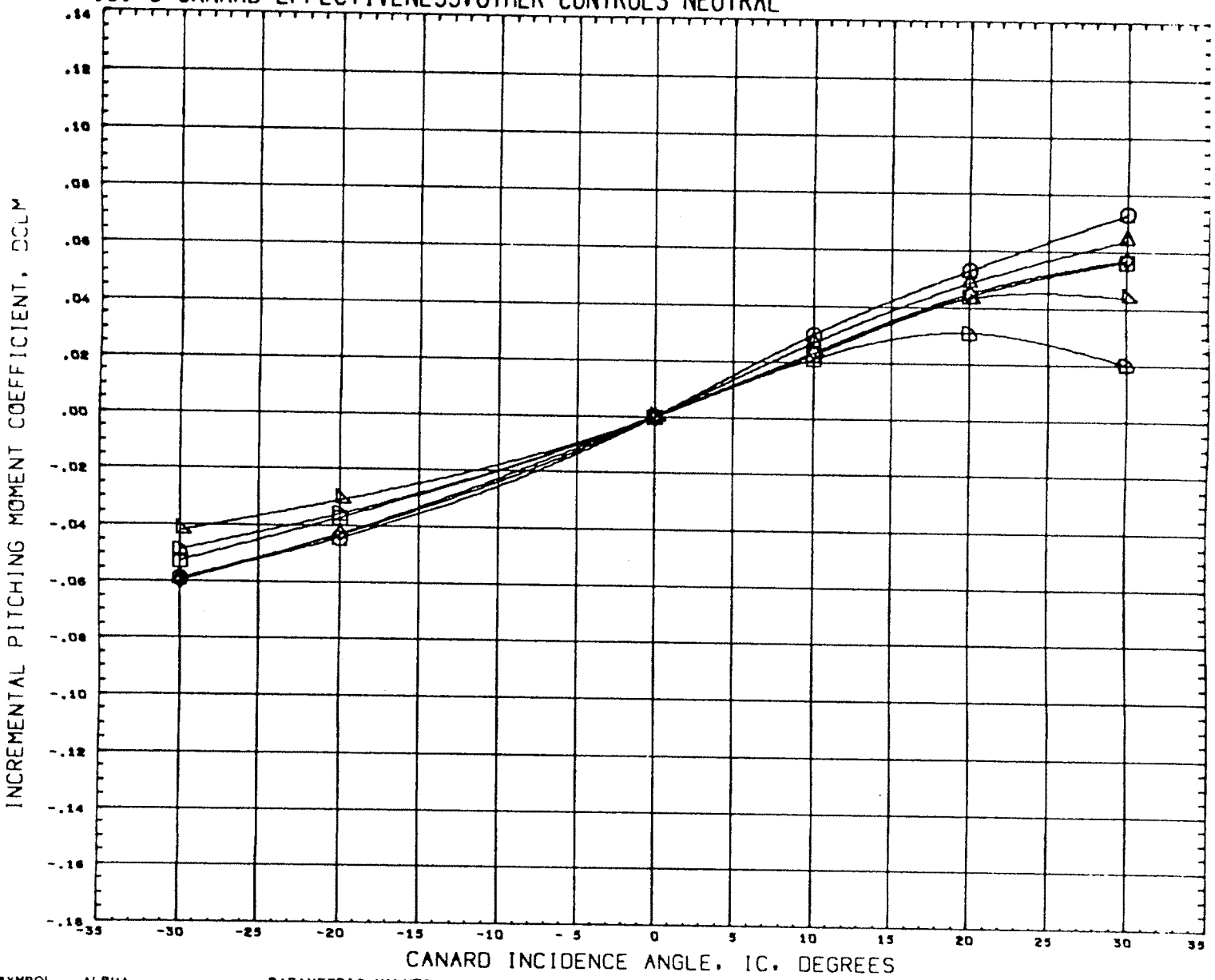
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0660	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
D	25.000									ZMRP	1.6160	IN.
		DATA HIST. CODE	CC+E1*C							SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 194

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◸	20.000
D	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

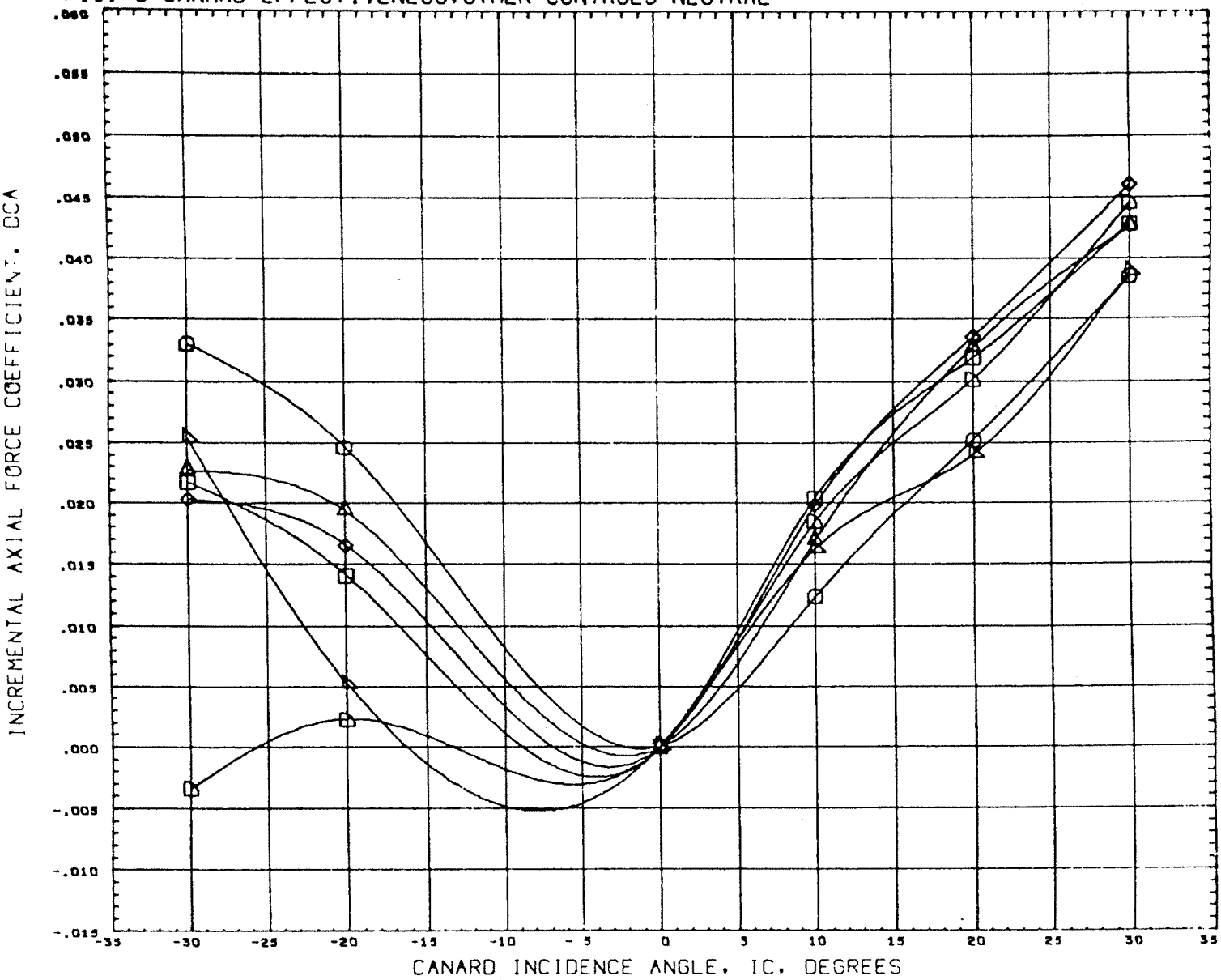
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 195

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◁	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.600	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		
DATA HIST. CODE	CC*EI*C		

DATA SOURCE

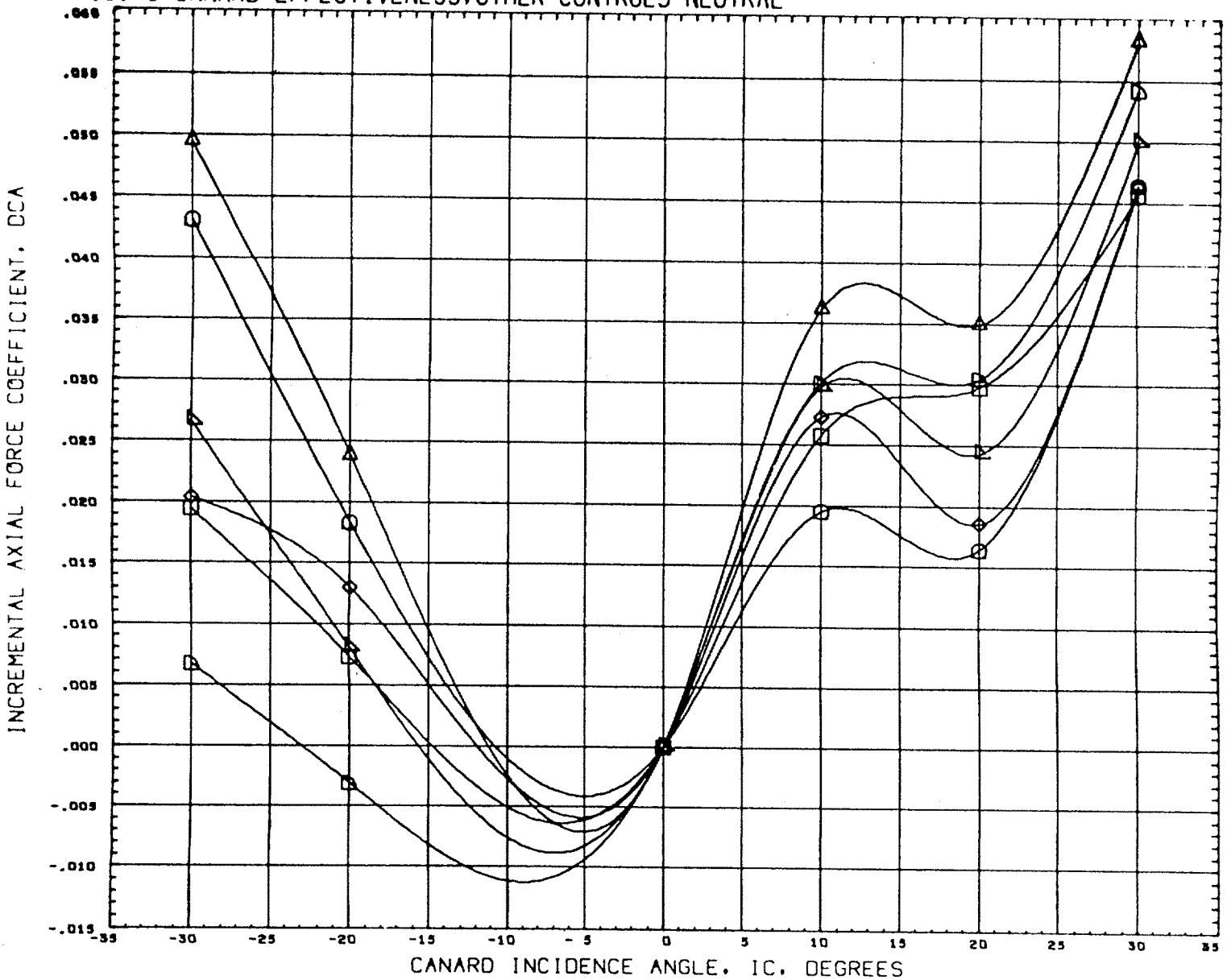
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 196

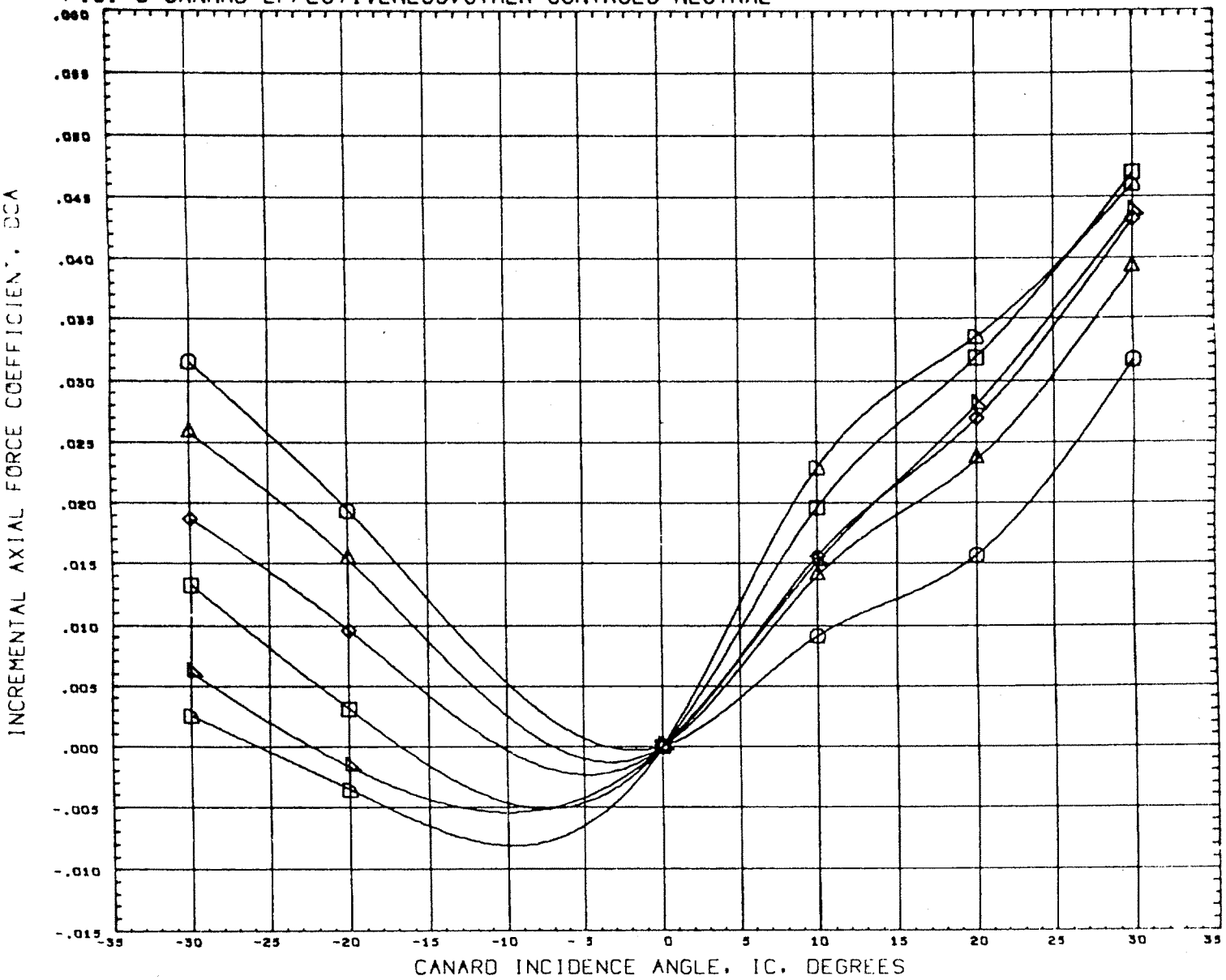
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.900	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◁	20.000									YMRP	0.0000	IN.
▷	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 197

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◺	20.000
◗	25.000

PARAMETRIC VALUES

MACH	1.200	BETA	0.000	
ELEVTR	0.000	AILRON	0.000	
RUDDER	0.000			
DATA HIST. CODE	CC*E1*C			

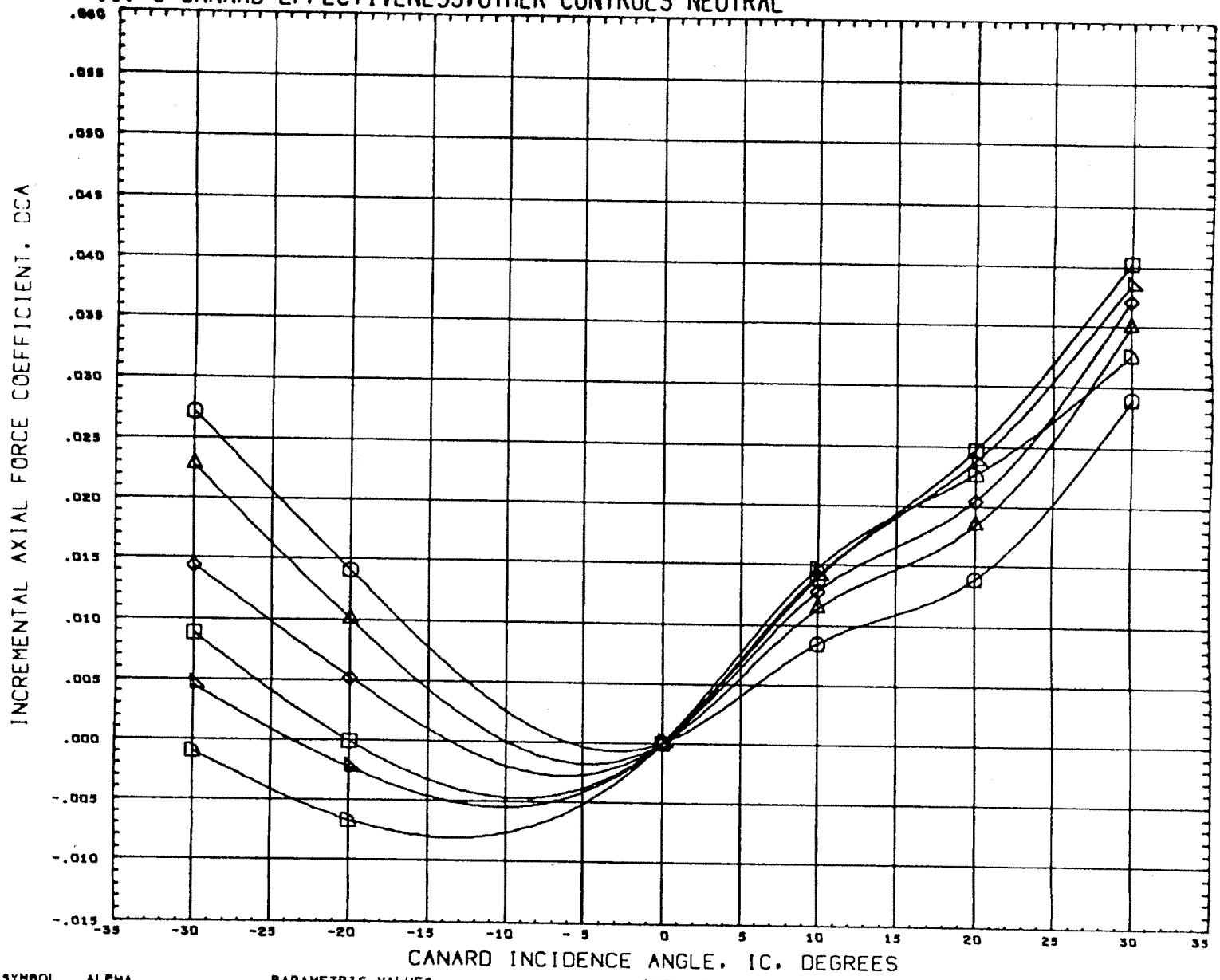
DATA SOURCE

DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◺	20.000
◸	25.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

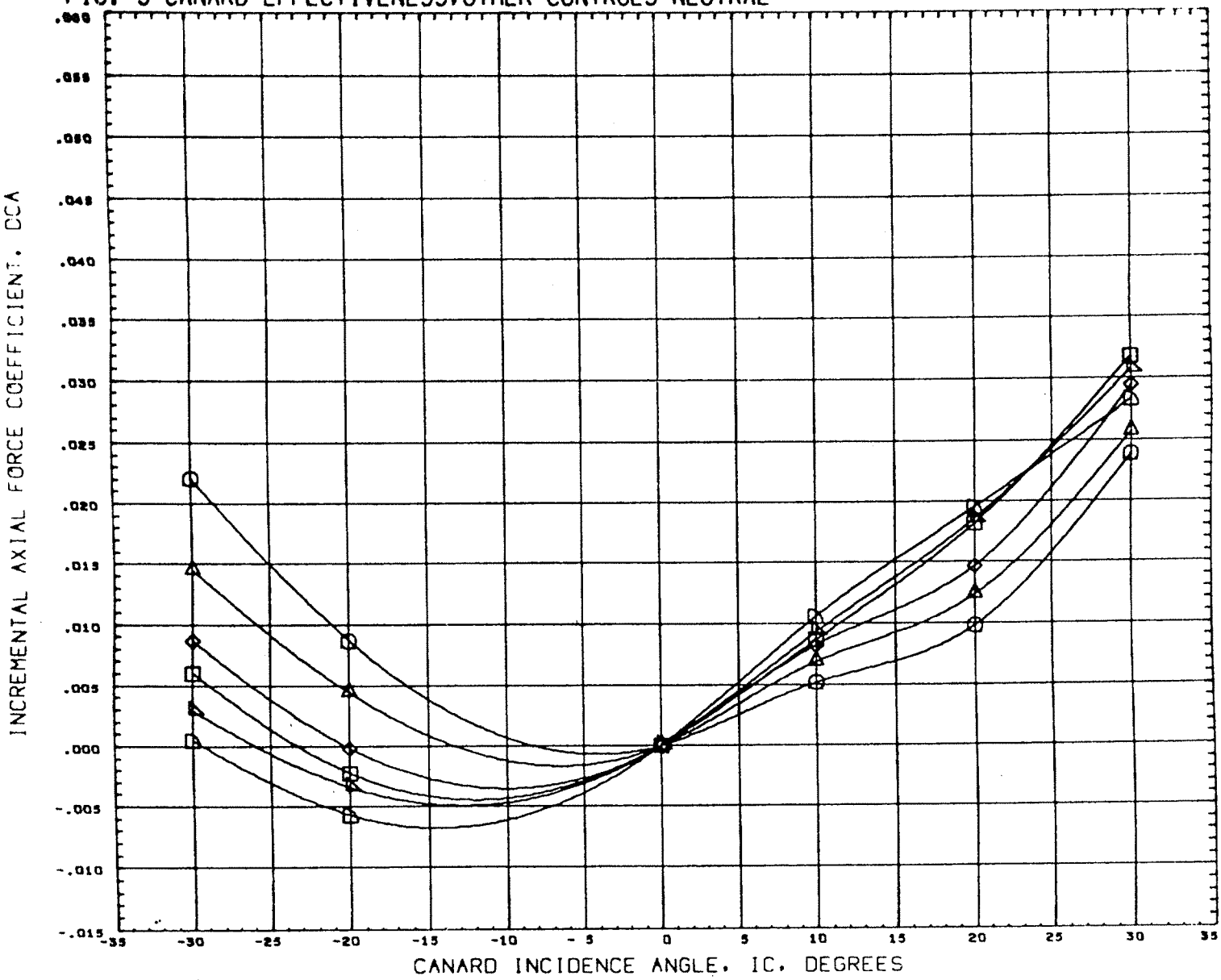
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 199

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◁	20.000
D	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

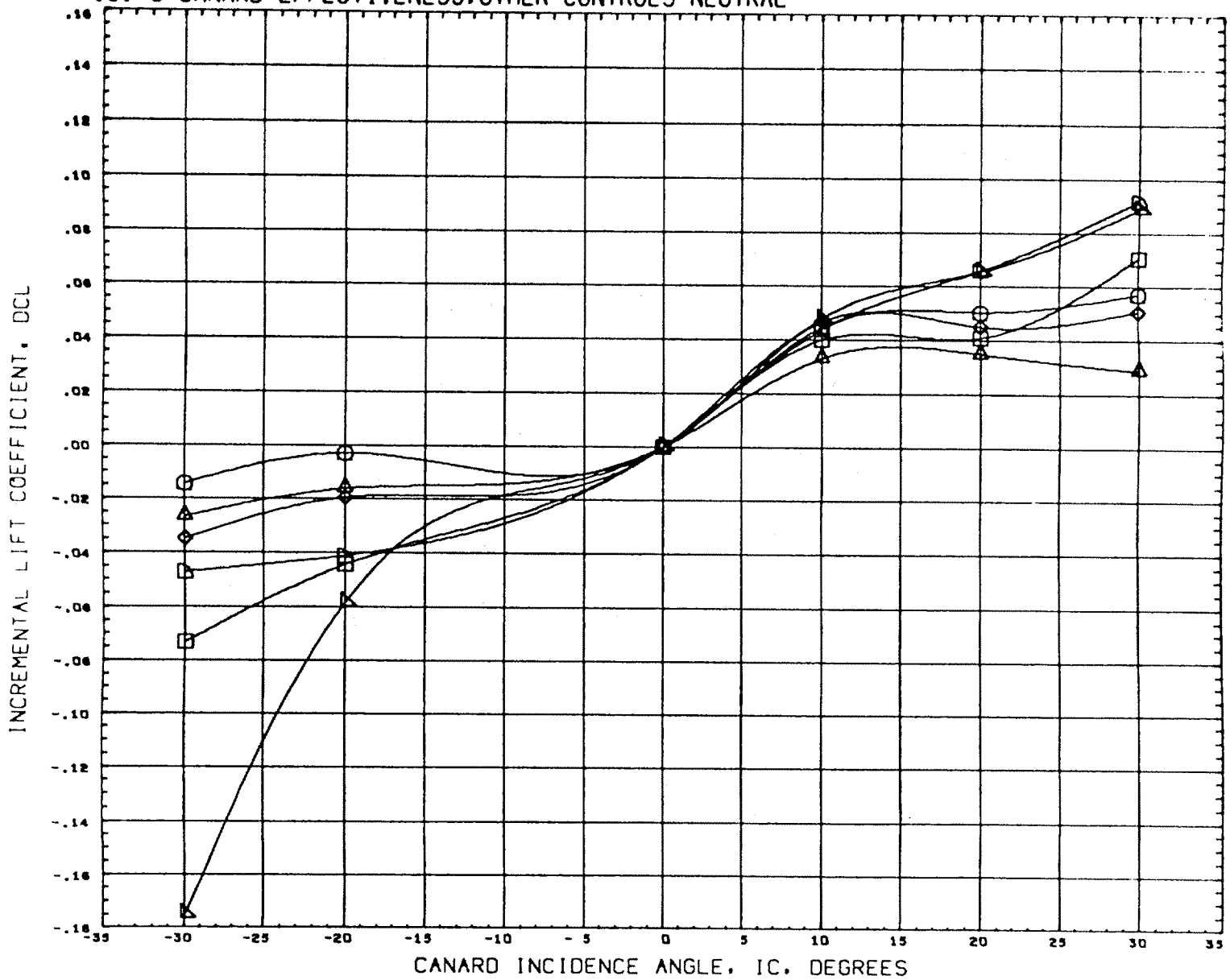
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 200

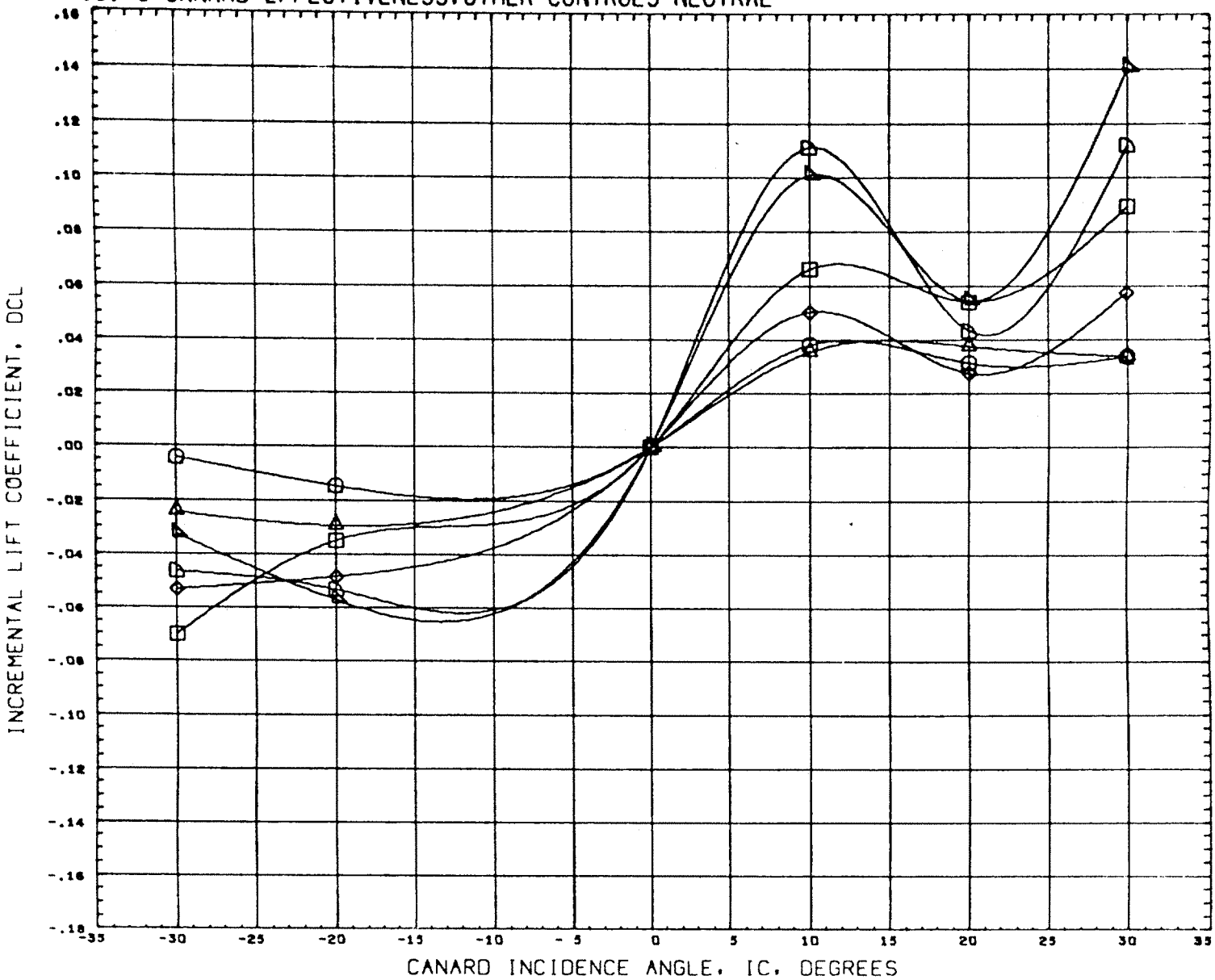
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
◹	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 201

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◺	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*E1*C

DATA SOURCE

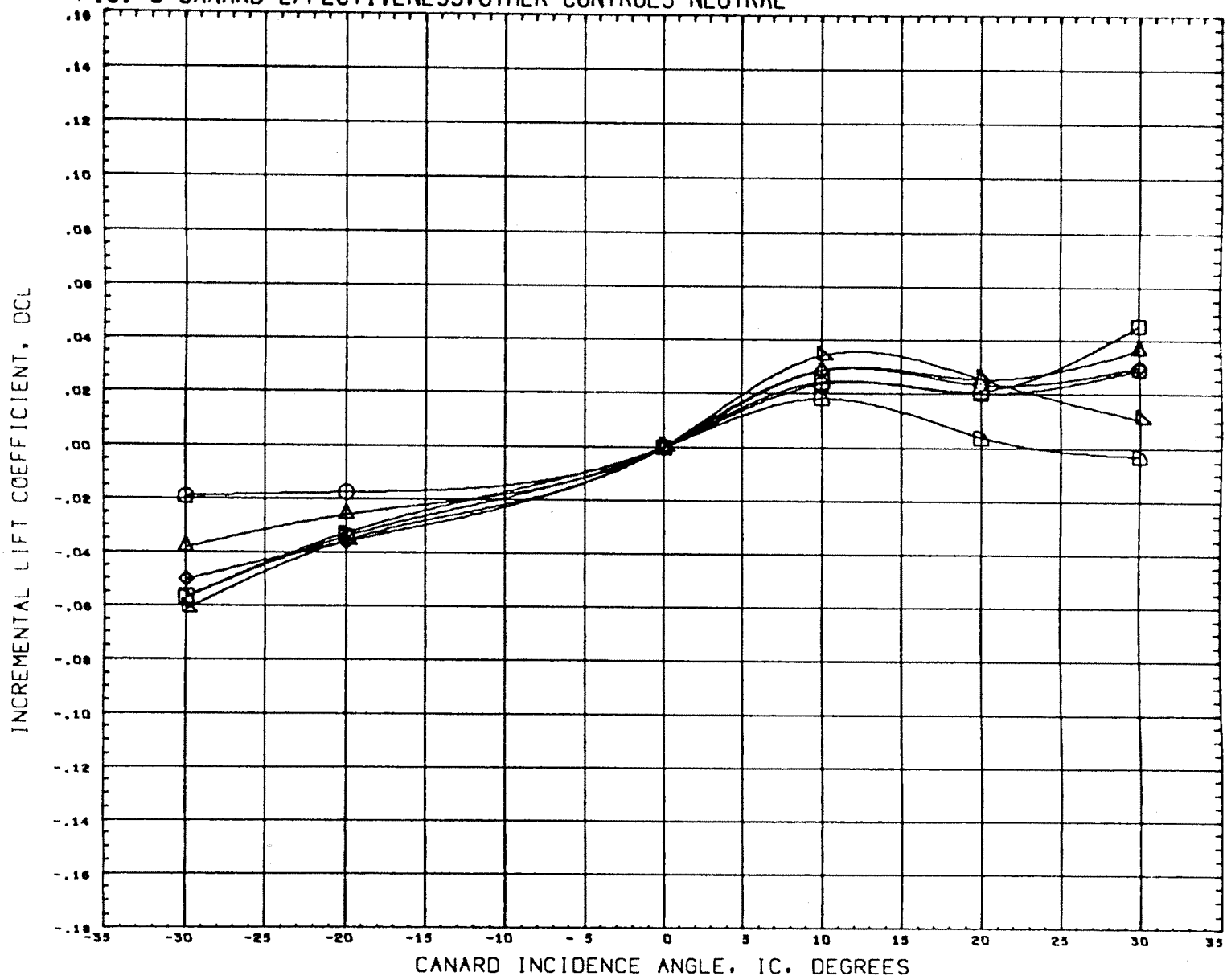
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

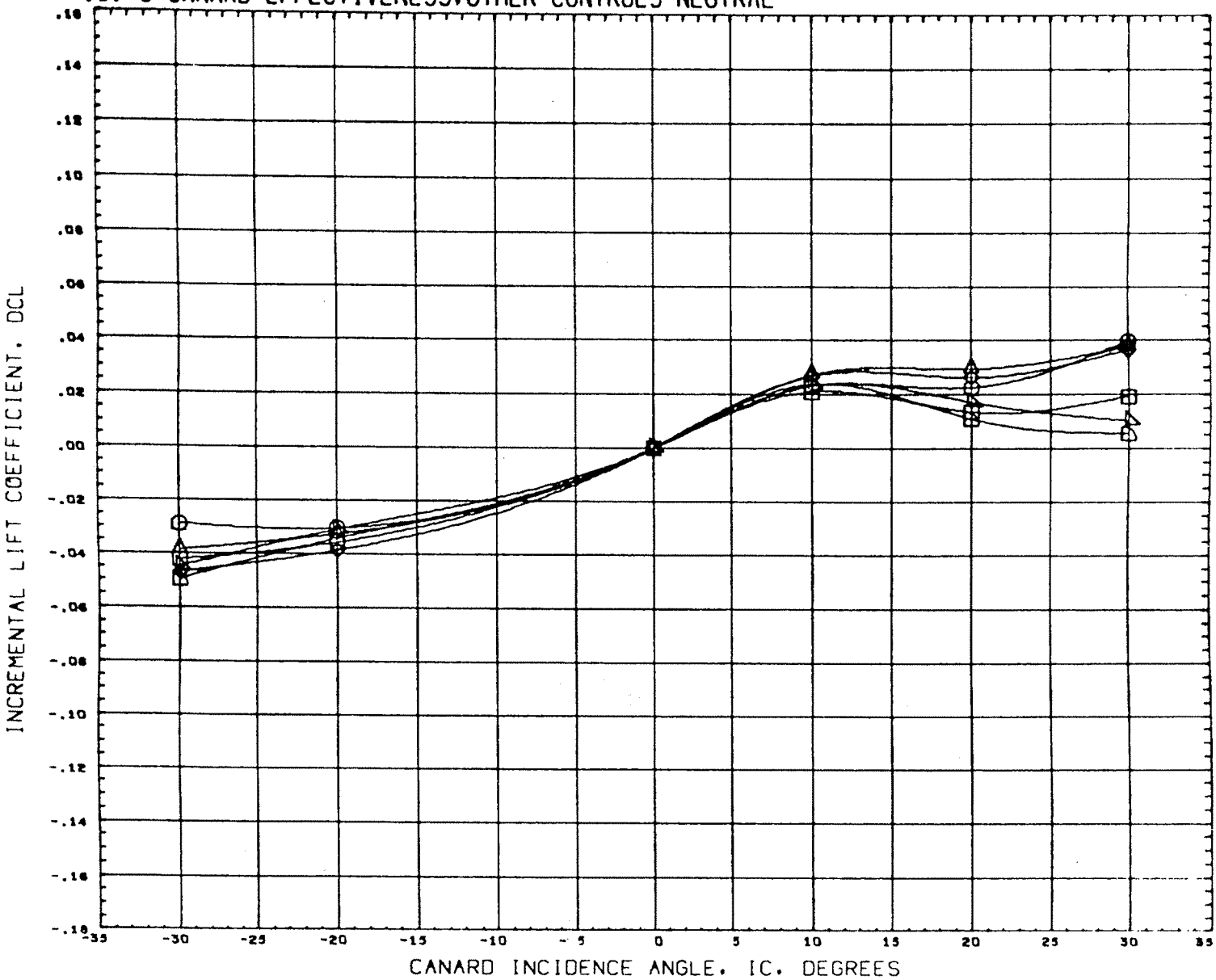
AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 202

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
◹	25.000	DATA HIST. CODE		CC*E1*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◪	20.000
D	25.000

PARAMETRIC VALUES

MACH	1.500	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		
DATA HIST. CODE	CC*EI*C		

DATA SOURCE

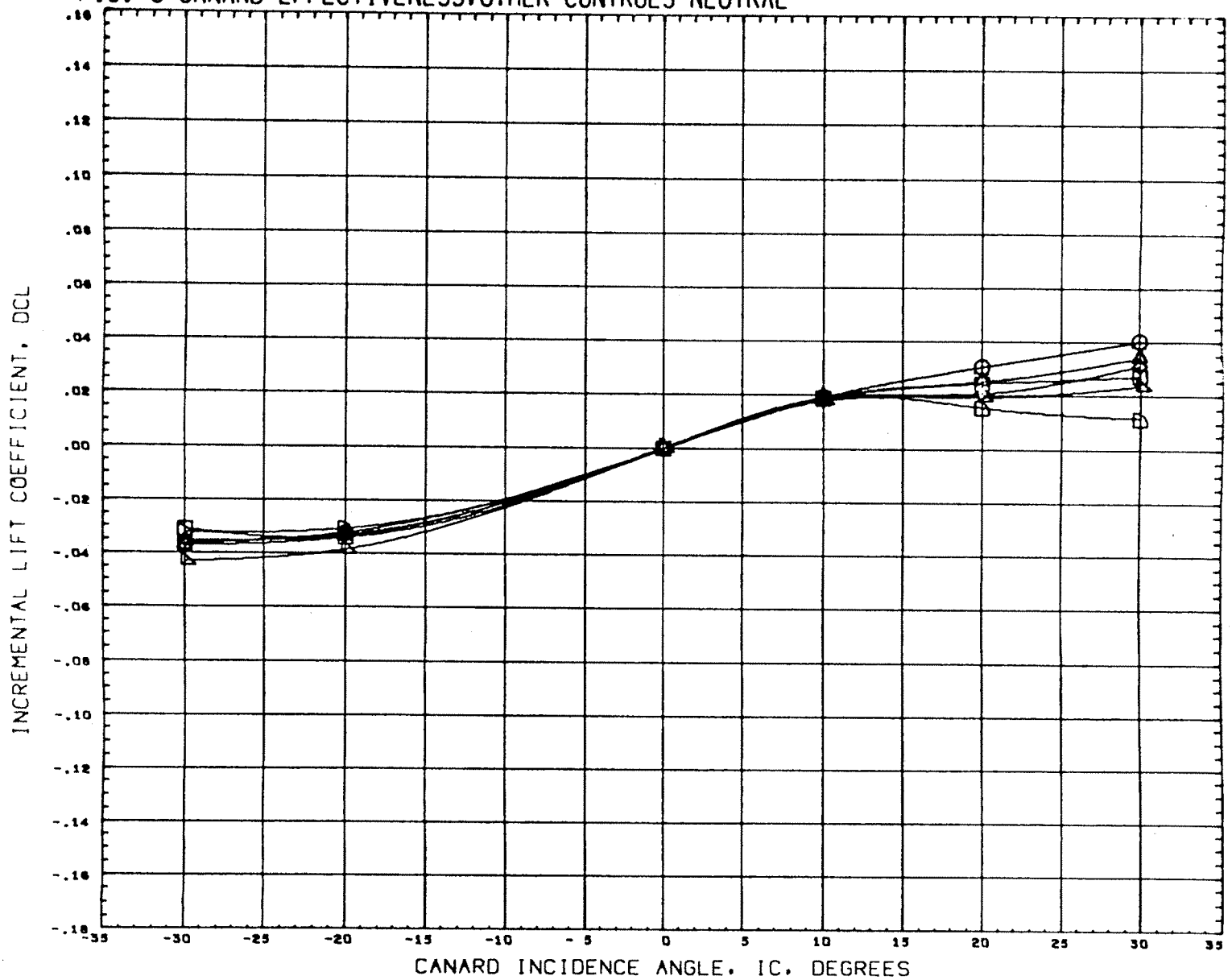
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 204

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
⊘	20.000
D	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

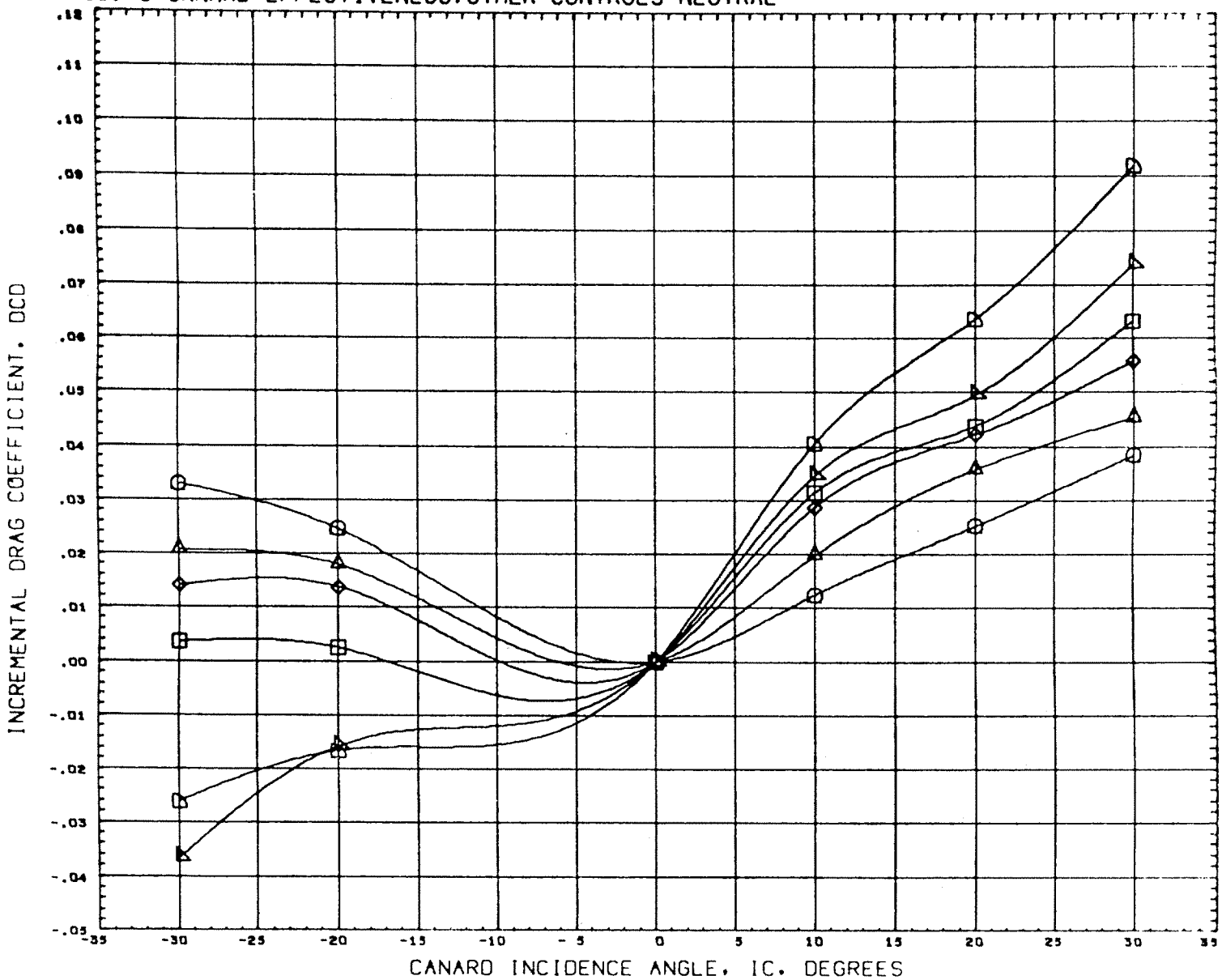
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 205

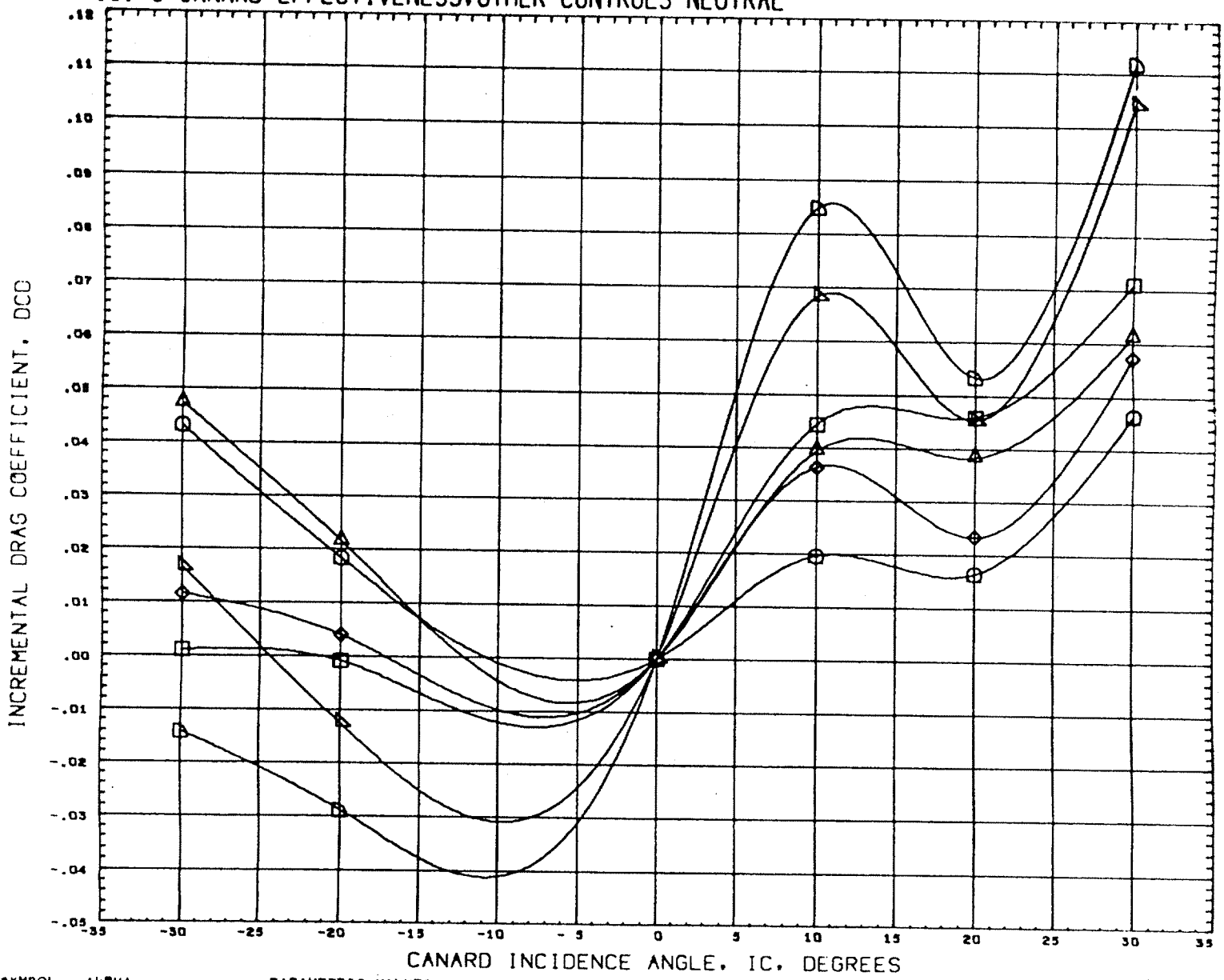
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	0.600	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
⊠	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 206

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◺	20.000
D	25.000

PARAMETRIC VALUES

MACH	0.900	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

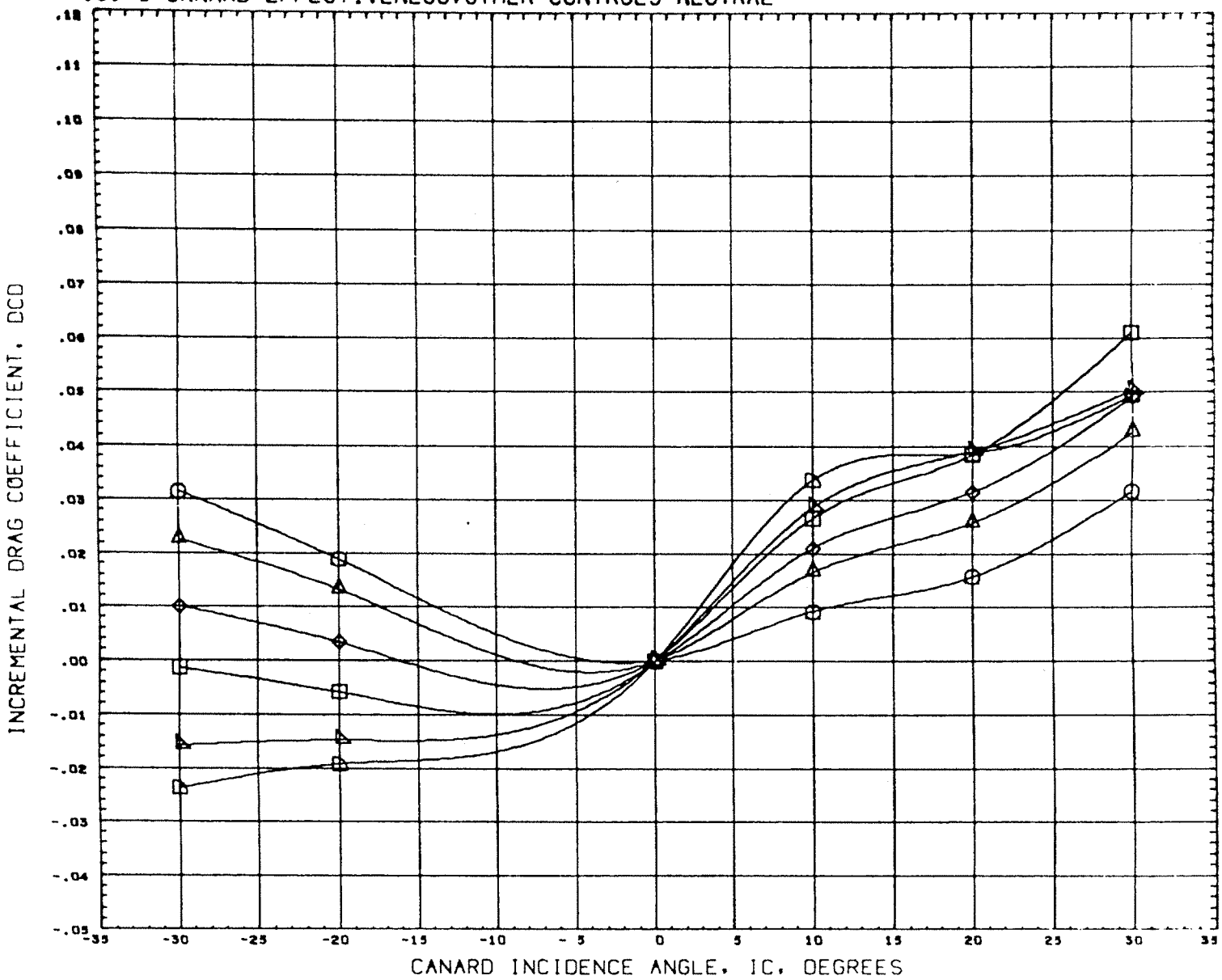
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

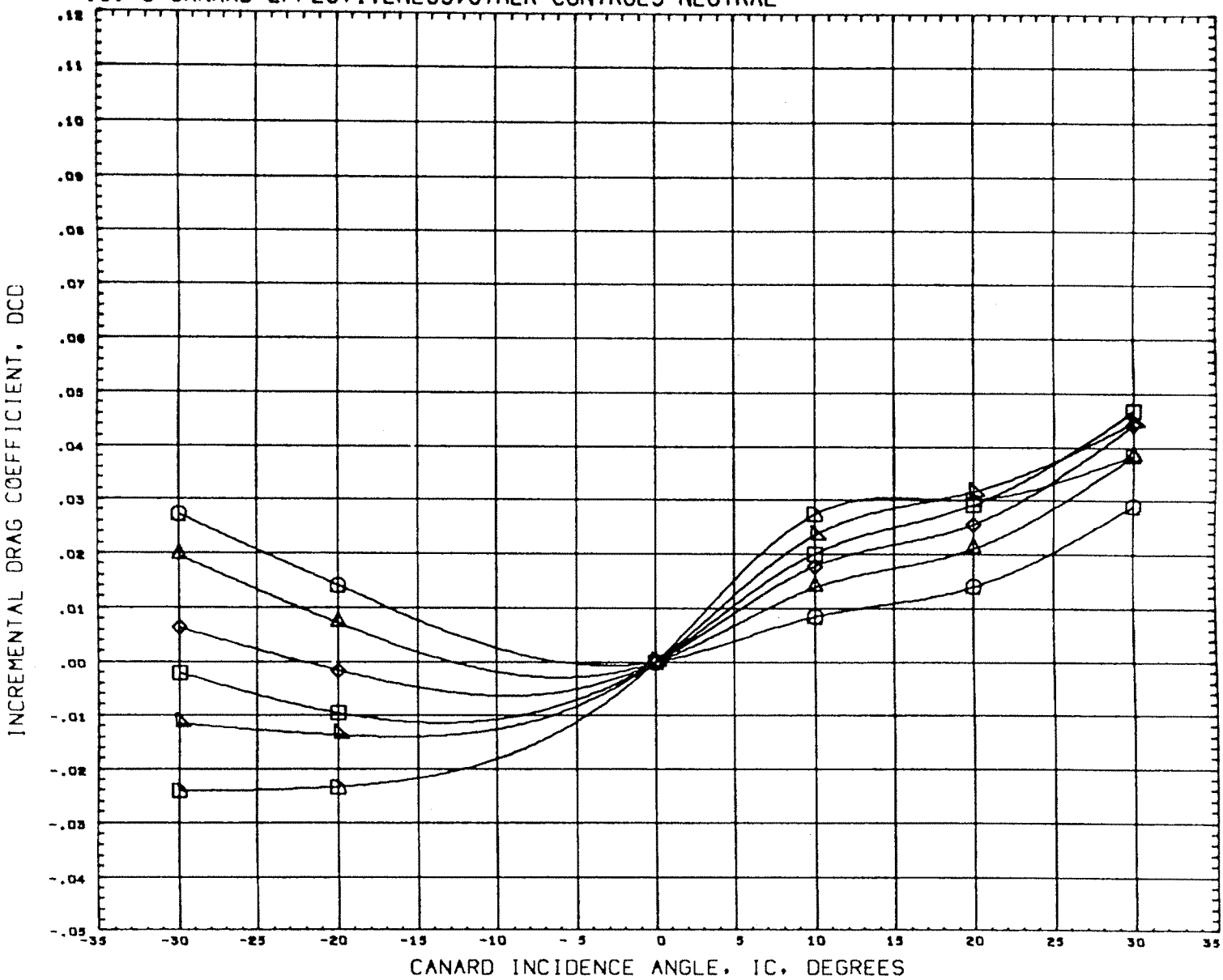
AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 207

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.200	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◸	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE	CC*EI*C							ZMRP	1.8160	IN.
										SCALE	0.0076	

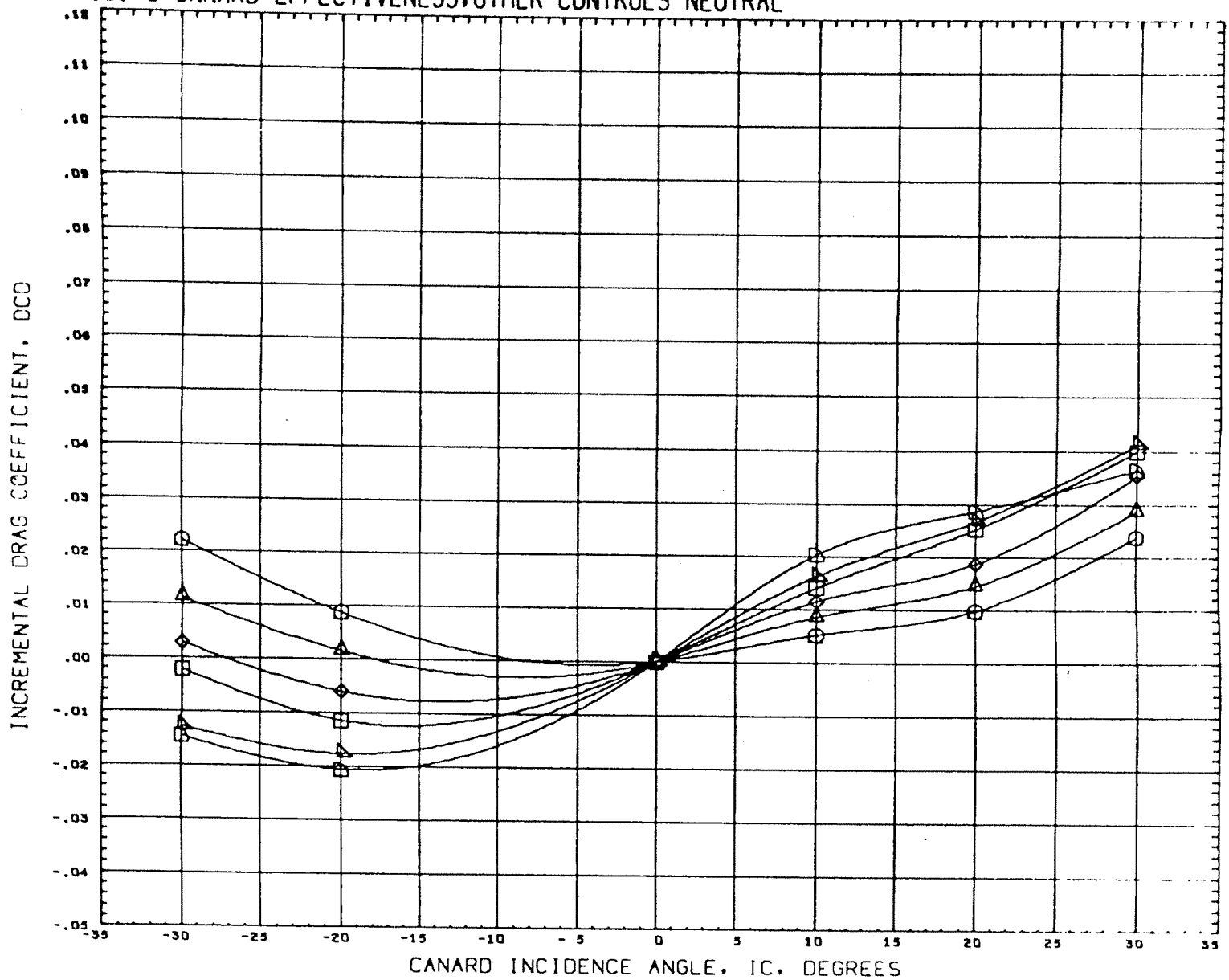
FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.000	MACH	1.500	BETA	0.000	DATASET	IC	DATASET	IC	SREF	70.1950	SQ.IN.
△	5.000	ELEVTR	0.000	AILRON	0.000	IBA252	- 30.000	IBA251	- 20.000	LREF	6.5410	IN.
◇	10.000	RUDDER	0.000			IBA250	0.000	IBA256	10.000	BREF	13.0860	IN.
□	15.000					IBA25A	20.000	IBA257	30.000	XMRP	15.8500	IN.
◺	20.000									YMRP	0.0000	IN.
D	25.000	DATA HIST. CODE		CC*EI*C						ZMRP	1.8160	IN.
										SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 209

FIG. 9 CANARD EFFECTIVENESS, OTHER CONTROLS NEUTRAL



SYMBOL	ALPHA
○	0.000
△	5.000
◇	10.000
□	15.000
◁	20.000
▷	25.000

PARAMETRIC VALUES

MACH	2.000	BETA	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

DATA SOURCE

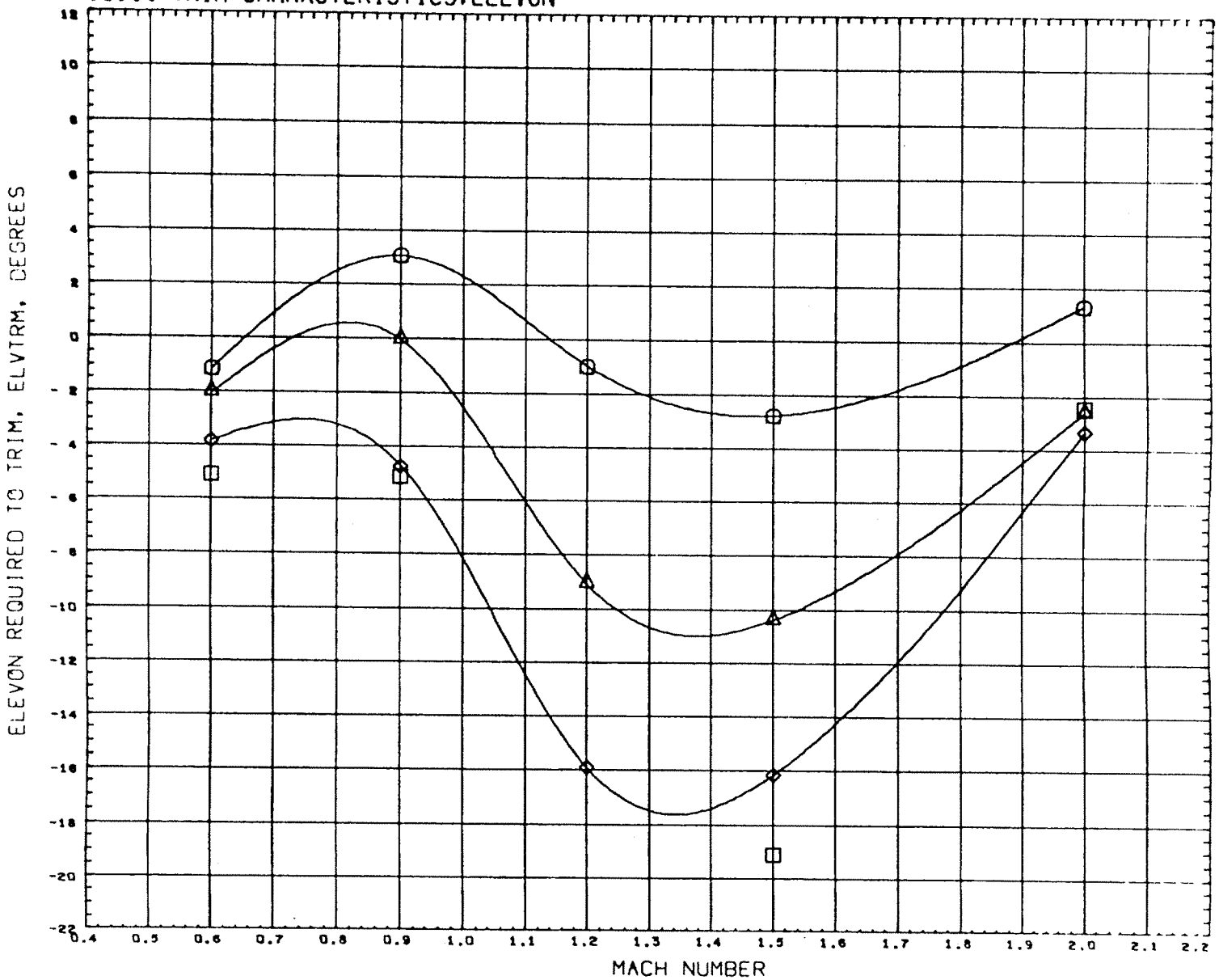
DATASET	IC	DATASET	IC
IBA252	- 30.000	IBA251	- 20.000
IBA250	0.000	IBA256	10.000
IBA25A	20.000	IBA257	30.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2(IC=XX-IC=0.) (IBA252) 06 MAY 72 PAGE 210

FIG.10 TRIM CHARACTERISTICS,ELEVON



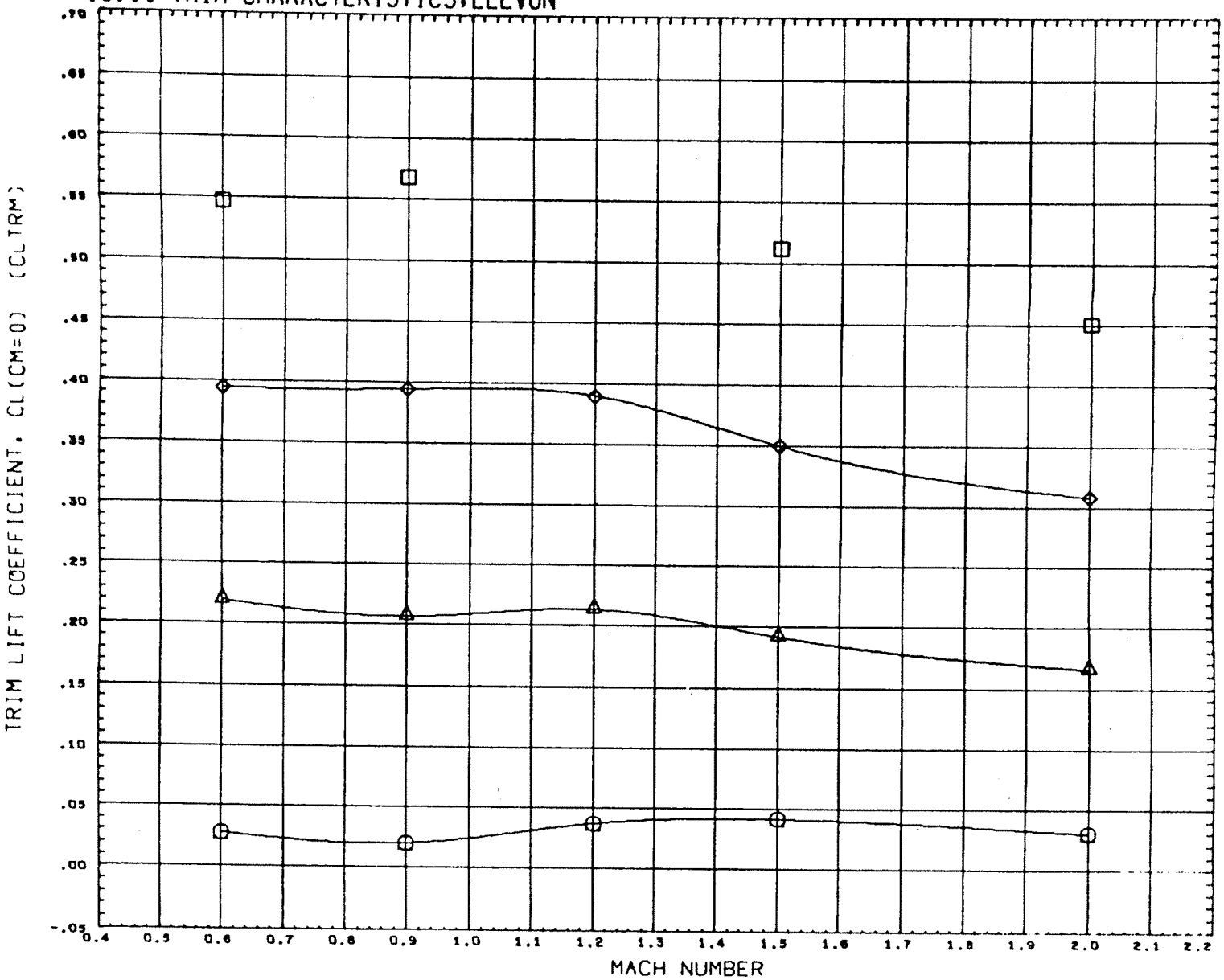
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(LBA601)	○	AMES 66-563 B22C6W19V10R2
(LBA602)	△	AMES 66-563 B22C6W19V10R2
(LBA603)	◇	AMES 66-563 B22C6W19V10R2
(LBA604)	□	AMES 66-563 B22C6W19V10R2

BETA	IC	ALPHA
0.000	0.000	0.000
0.000	0.000	4.000
0.000	0.000	8.000
0.000	0.000	12.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.10 TRIM CHARACTERISTICS,ELEVON



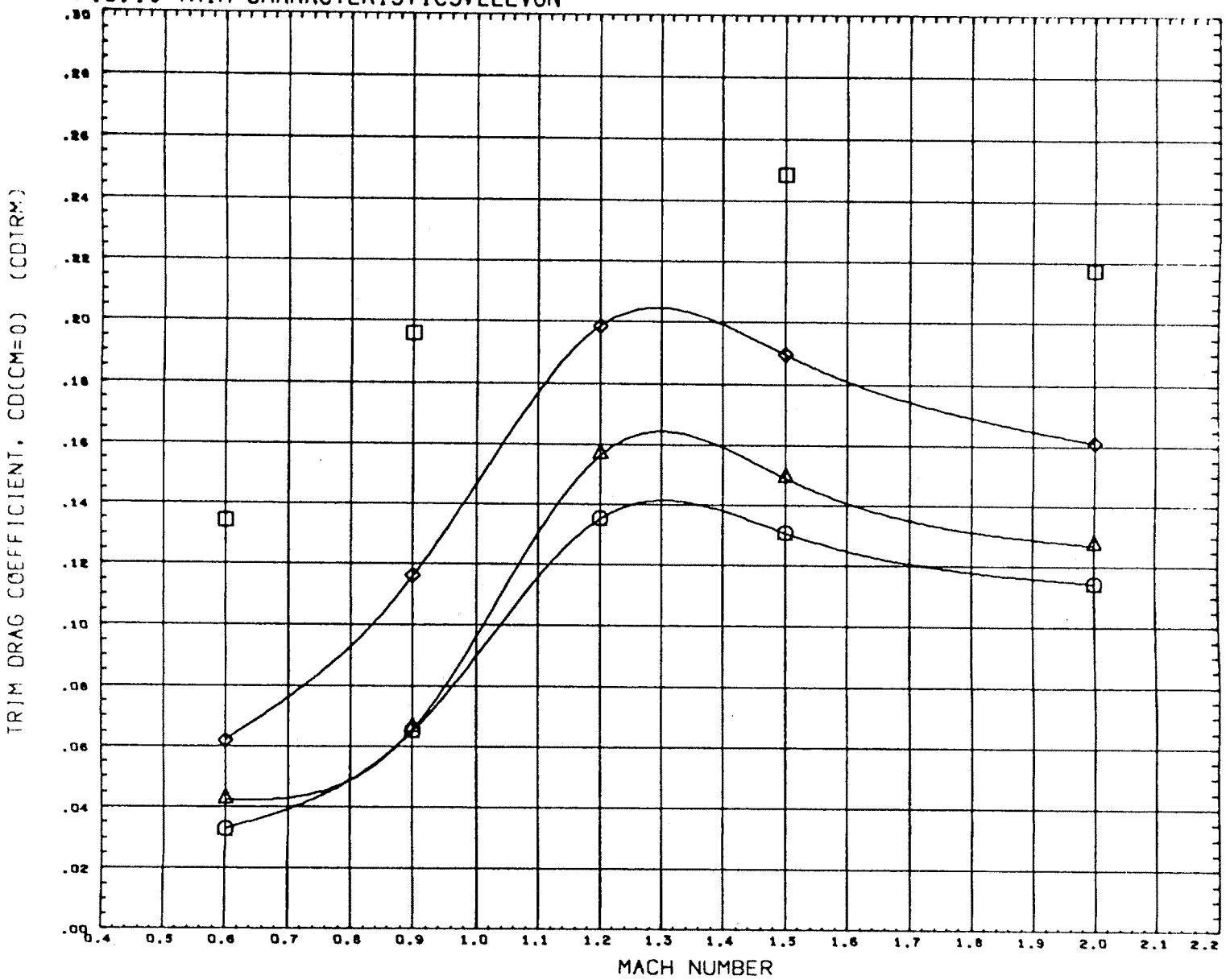
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(LBA801)	○	AMES 66-563 B22C8W19V10R2
(LBA802)	△	AMES 66-563 B22C8W19V10R2
(LBA803)	◇	AMES 66-563 B22C8W19V10R2
(LBA804)	□	AMES 66-563 B22C8W19V10R2

BETA	IC	ALPHA
0.000	0.000	0.000
0.000	0.000	4.000
0.000	0.000	8.000
0.000	0.000	12.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.10 TRIM CHARACTERISTICS,ELEVON

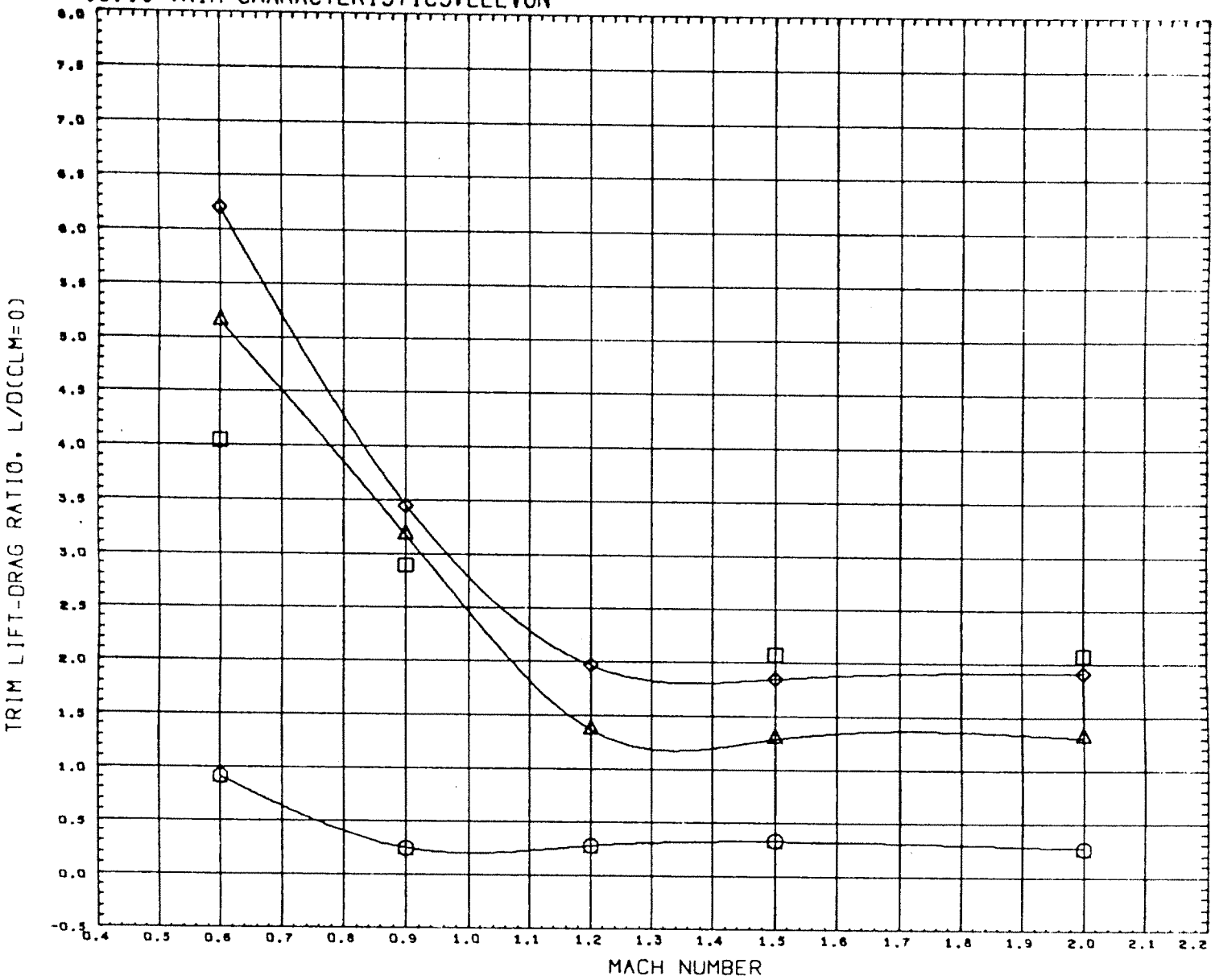


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	ALPHA
(LBA801)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000
(LBA802)	△	AMES 66-563 B22C8W19V10R2	0.000	0.000	4.000
(LBA803)	◇	AMES 66-563 B22C8W19V10R2	0.000	0.000	8.000
(LBA804)	□	AMES 66-563 B22C8W19V10R2	0.000	0.000	12.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.10 TRIM CHARACTERISTICS.ELEVON



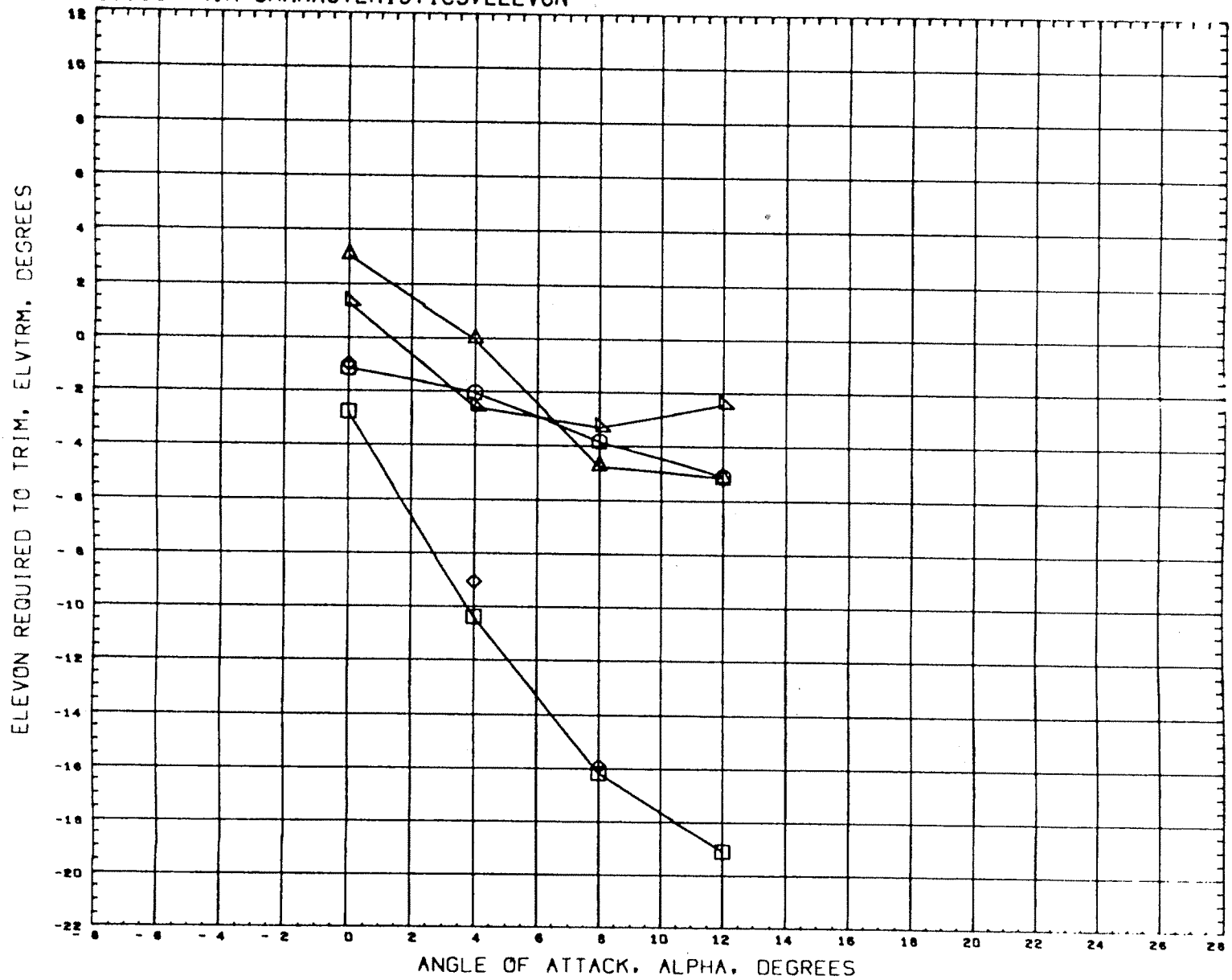
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(LBA801)	○	AMES 66-563 B22C8W19V10R2
(LBA802)	△	AMES 66-563 B22C8W19V10R2
(LBA803)	◇	AMES 66-563 B22C8W19V10R2
(LBA804)	□	AMES 66-563 B22C8W19V10R2

BETA	IC	ALPHA
0.000	0.000	0.000
0.000	0.000	4.000
0.000	0.000	8.000
0.000	0.000	12.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

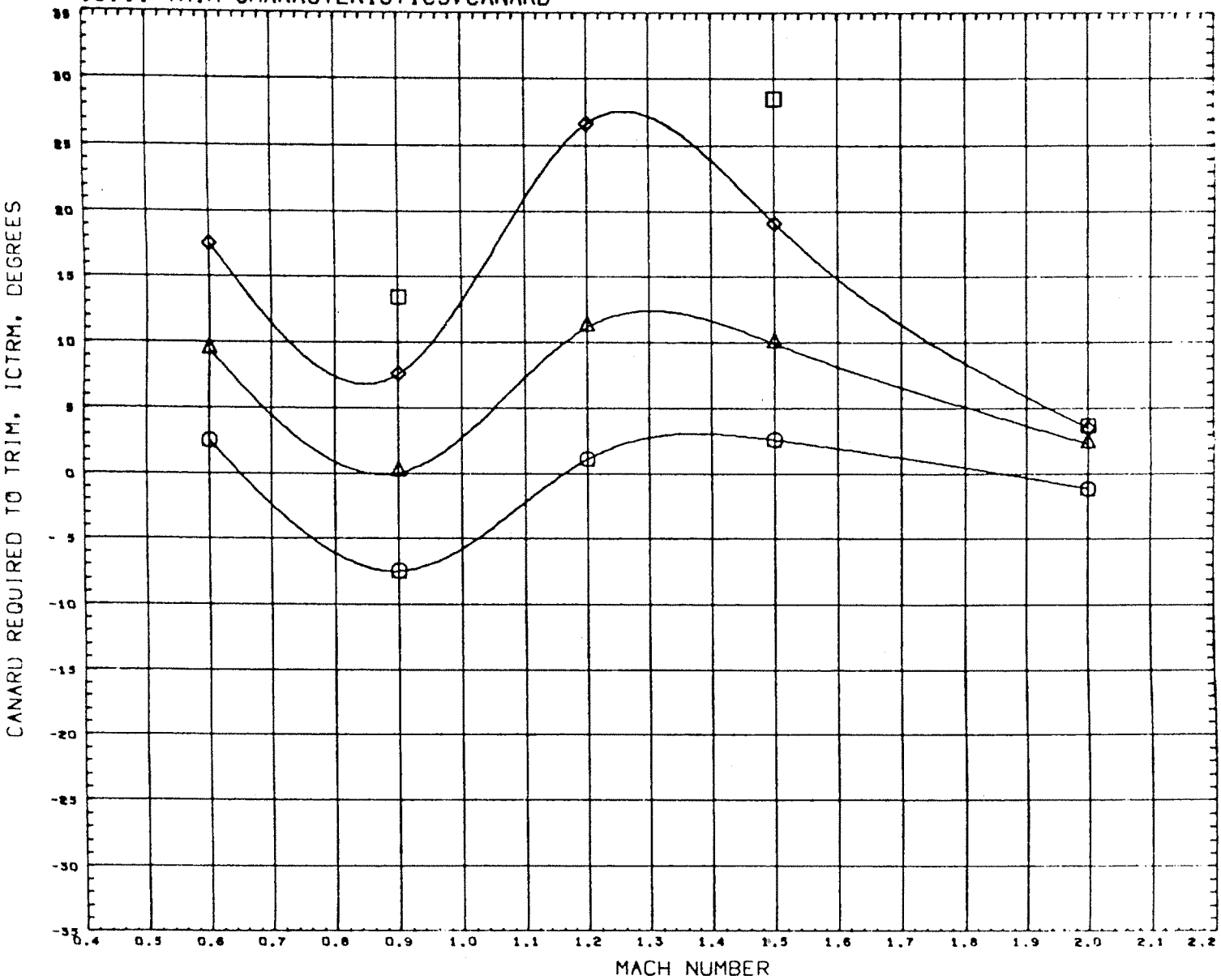
FIG.10 TRIM CHARACTERISTICS.ELEVON



SYMBOL	MACH		PARAMETRIC VALUES			DATA SOURCE				REFERENCE INFORMATION		
○	0.600	BETA	0.000	IC	0.000	DATASET	ALPHA	DATASET	ALPHA	SREF	70.1950	SQ.IN.
△	0.900	AILRON	0.000	RUDDER	0.000	LBA801	0.000	LBA802	4.000	LREF	6.5410	IN.
◇	1.200					LBA803	8.000	LBA804	12.000	BREF	13.0860	IN.
□	1.500									XMRP	15.8500	IN.
◸	2.000									YMRP	0.0000	IN.
										ZMRP	1.8160	IN.
										SCALE	0.0076	

DATA HIST. CODE CC*EI*BF

FIG.11 TRIM CHARACTERISTICS.CANARD

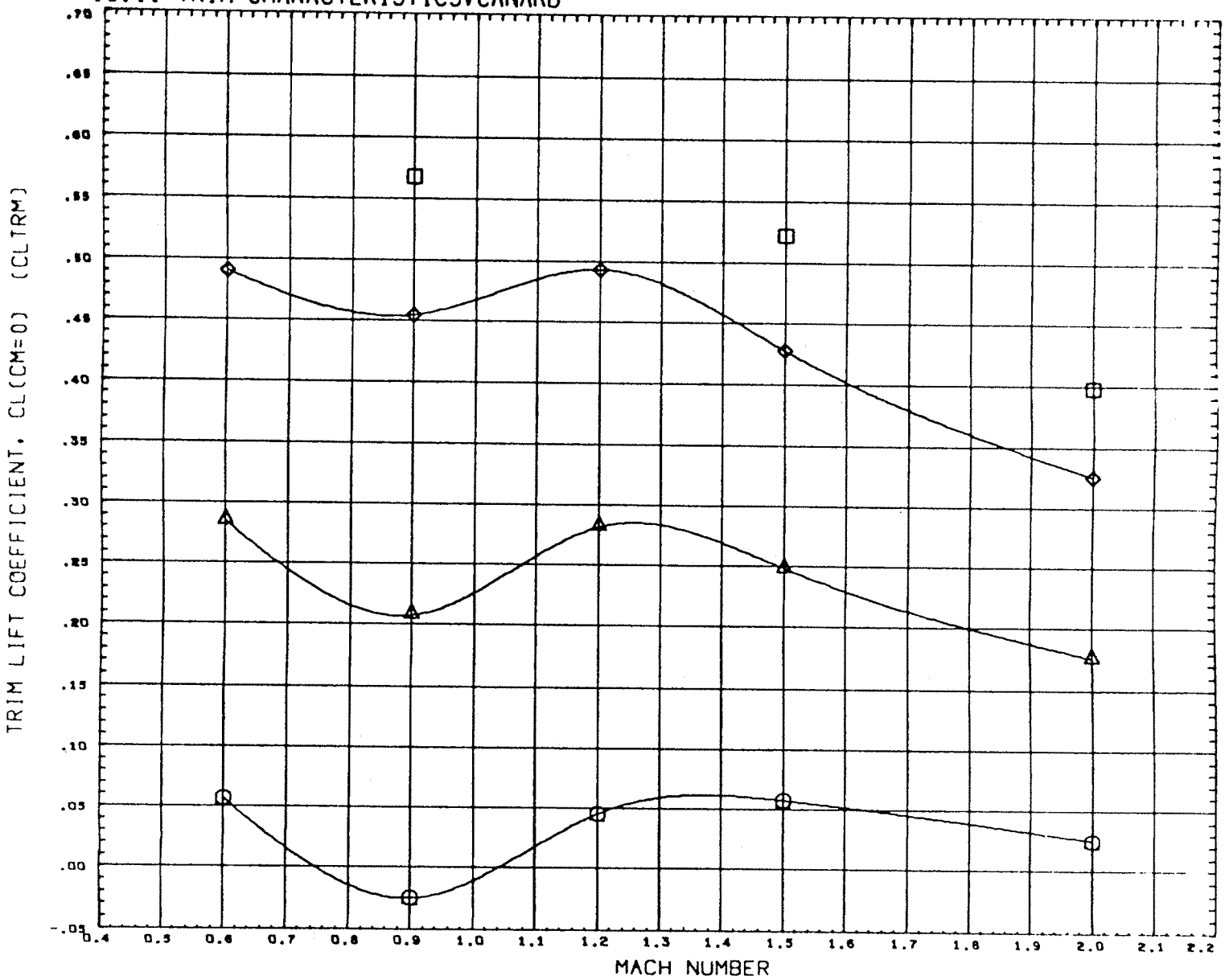


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	ALPHA
(LBA901)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000
(LBA902)	△	AMES 66-563 B22C8W19V10R2	0.000	0.000	4.000
(LBA903)	◇	AMES 66-563 B22C8W19V10R2	0.000	0.000	8.000
(LBA904)	□	AMES 66-563 B22C8W19V10R2	0.000	0.000	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.11 TRIM CHARACTERISTICS.CANARD



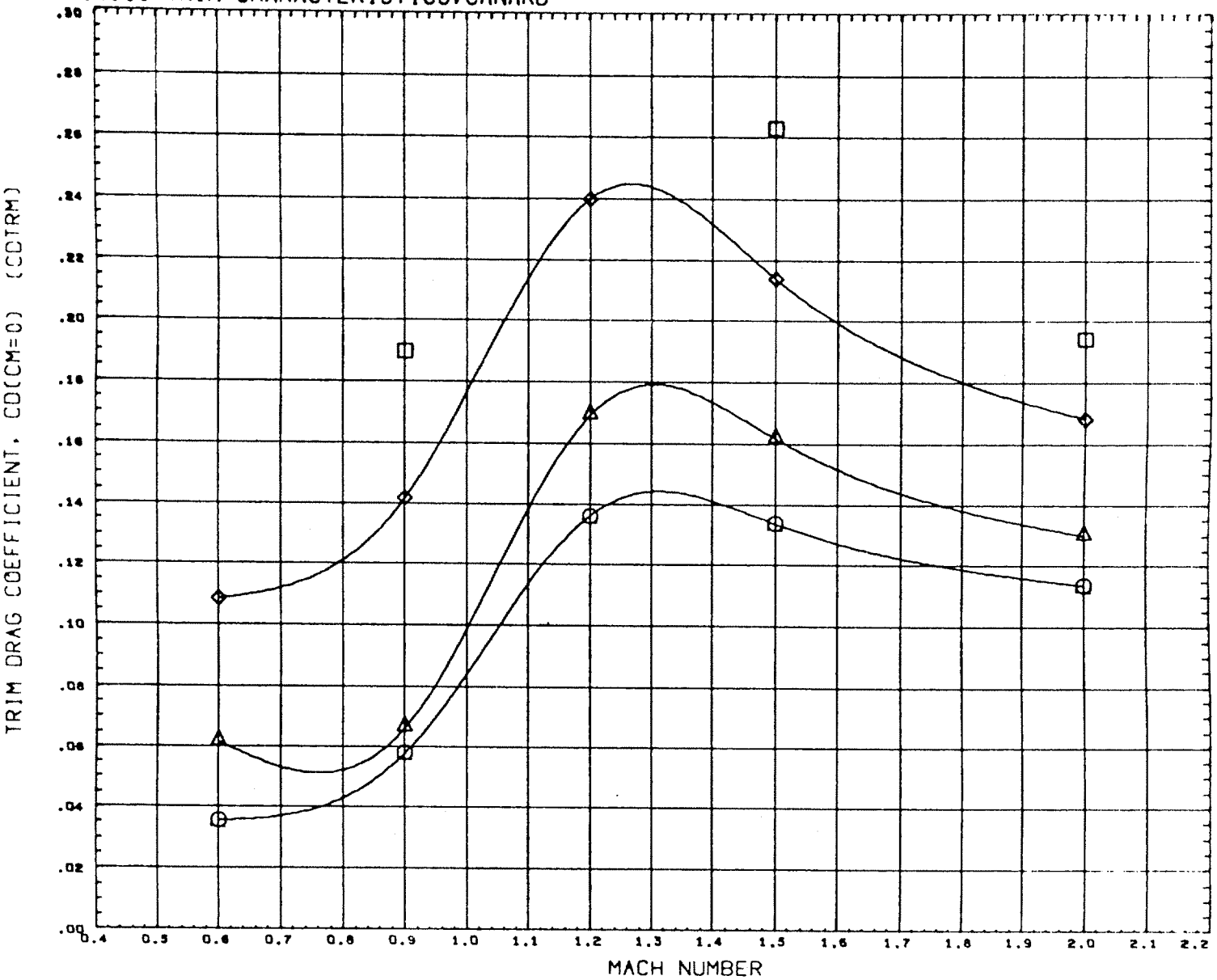
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(LBA901)	○	AMES 66-563 B22C8W19V10R2
(LBA902)	△	AMES 66-563 B22C8W19V10R2
(LBA903)	◇	AMES 66-563 B22C8W19V10R2
(LBA904)	□	AMES 66-563 B22C8W19V10R2

BETA	ELEVTR	ALPHA
0.000	0.000	0.000
0.000	0.000	4.000
0.000	0.000	8.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.11 TRIM CHARACTERISTICS,CANARD

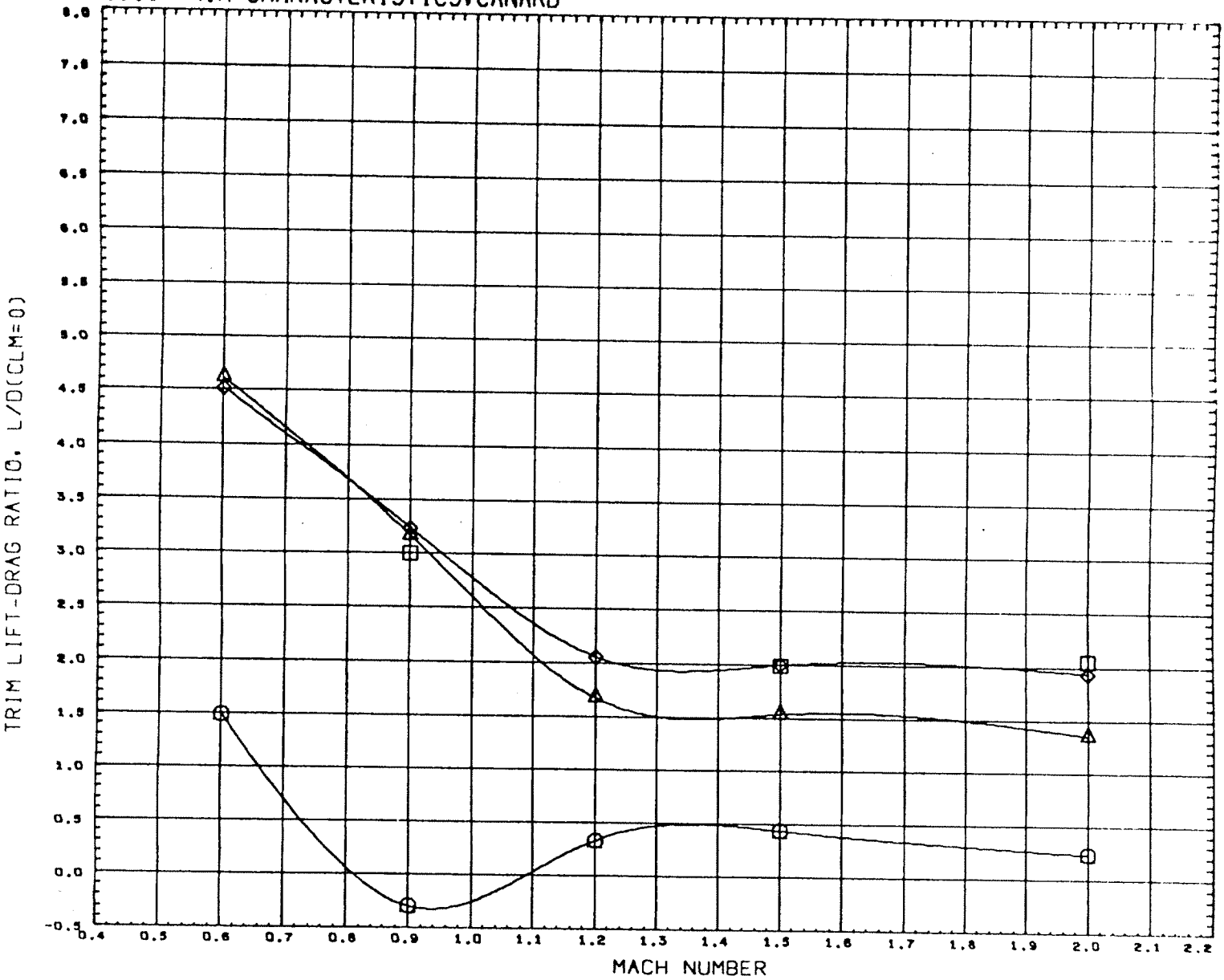


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	ALPHA
(LBA901)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000
(LBA902)	△	AMES 66-563 B22C8W19V10R2	0.000	0.000	4.000
(LBA903)	◇	AMES 66-563 B22C8W19V10R2	0.000	0.000	8.000
(LBA904)	□	AMES 66-563 B22C8W19V10R2	0.000	0.000	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.11 TRIM CHARACTERISTICS.CANARD



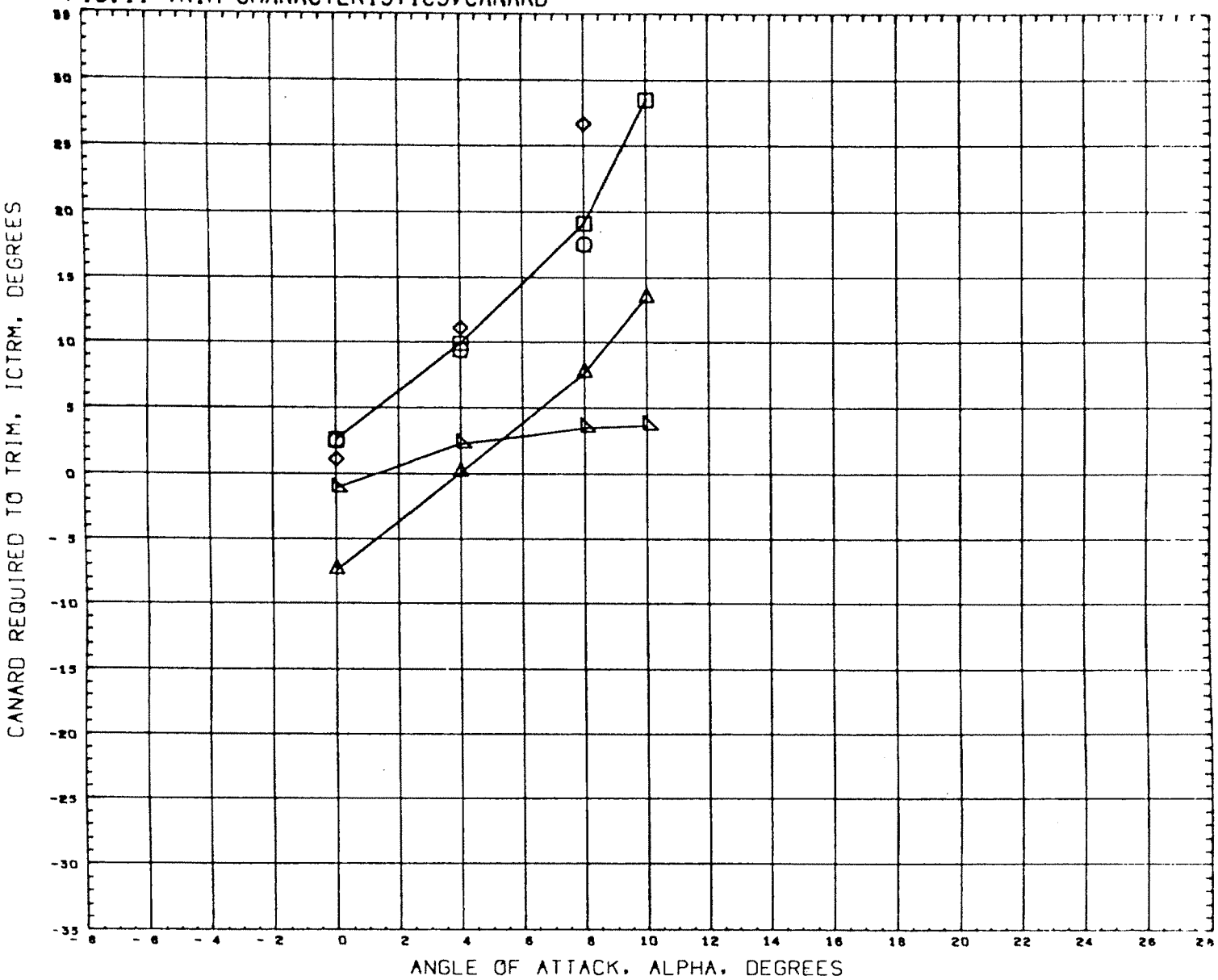
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(LBA901)	○	AMES 66-563 B22C8W19V10R2
(LBA902)	△	AMES 66-563 B22C8W19V10R2
(LBA903)	◇	AMES 66-563 B22C8W19V10R2
(LBA904)	□	AMES 66-563 B22C8W19V10R2

BETA	ELEVTR	ALPHA
0.000	0.000	0.000
0.000	0.000	4.000
0.000	0.000	8.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

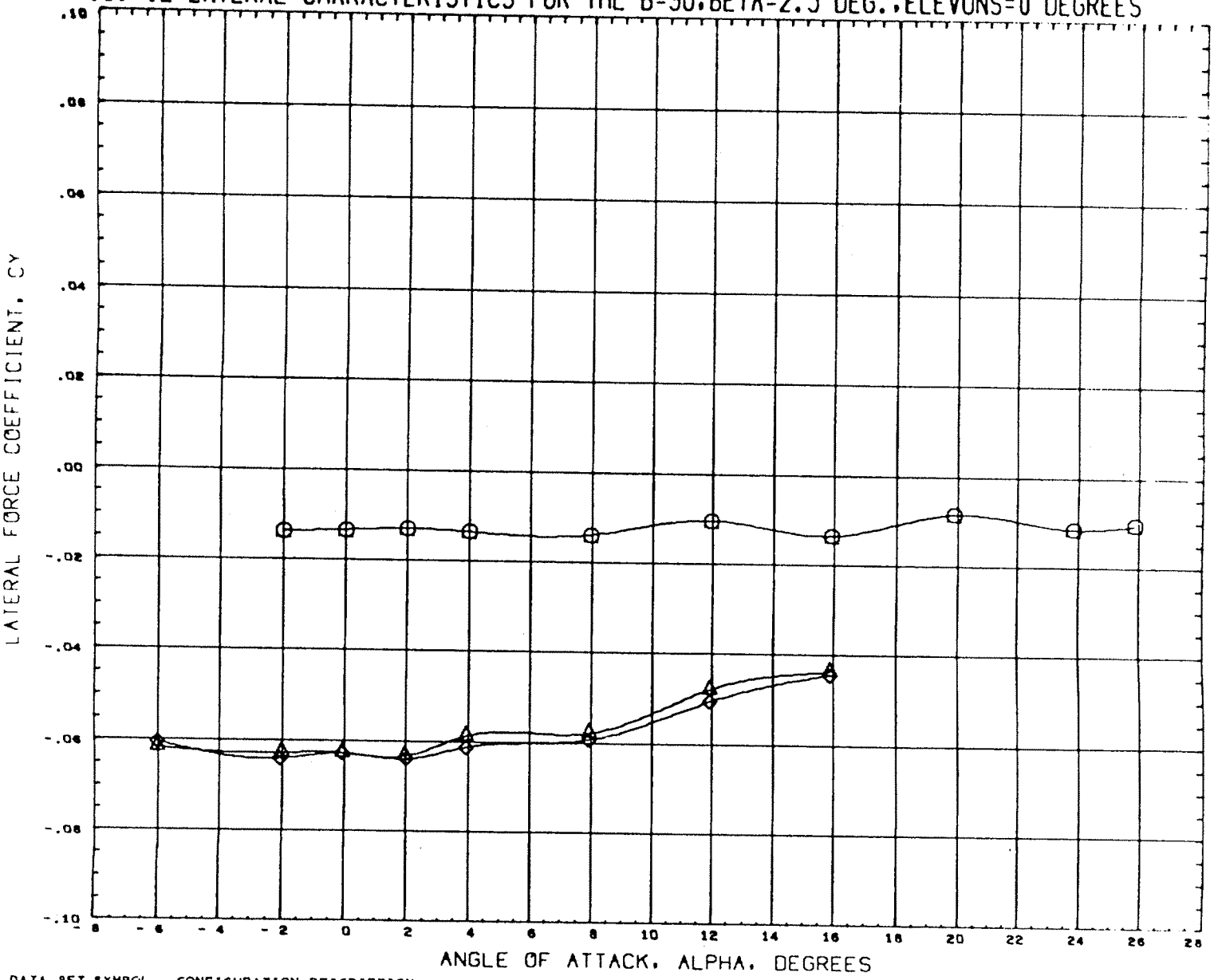
FIG.11 TRIM CHARACTERISTICS,CANARD



SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	0.600	BETA	0.000	ELEVTR	0.000	DATASET	ALPHA	DATASET	ALPHA	SREF	70.1950	SQ.IN.
△	0.900	AILRON	0.000	RUDDER	0.000	LBA901	0.000	LBA902	4.000	LREF	6.5410	IN.
◇	1.200					LBA903	8.000	LBA904	10.000	BREF	13.0860	IN.
□	1.500									XMRP	15.8500	IN.
◺	2.000									YMRP	0.0000	IN.
										ZMRP	1.8160	IN.
										SCALE	0.0076	

DATA HIST. CODE CC*EI*BF

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



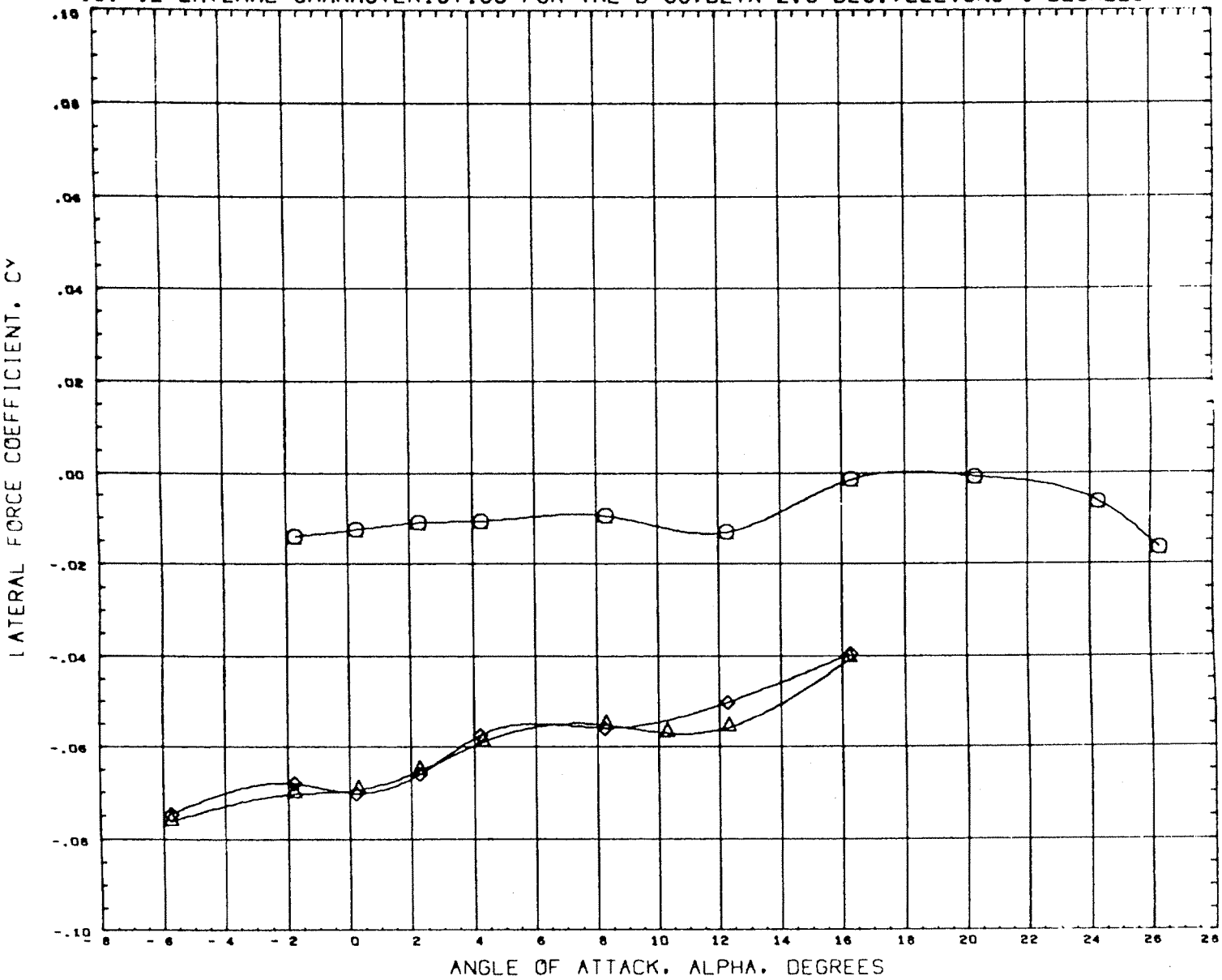
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA156)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



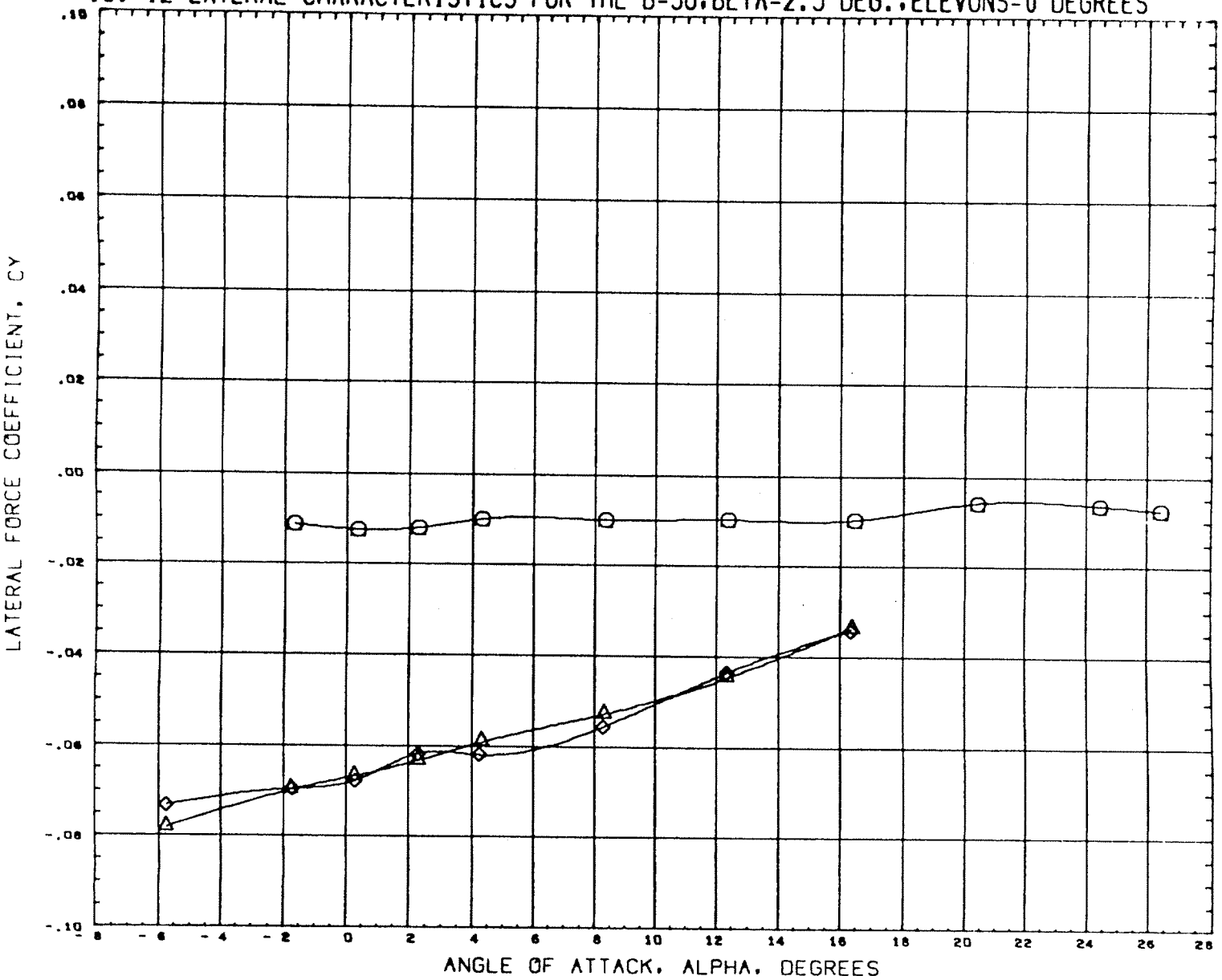
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 12 LATERAL CHARACTERISTICS FØR THE B-9U,BETA=2.5 DEG.,ELEVØNS=0 DEGREES



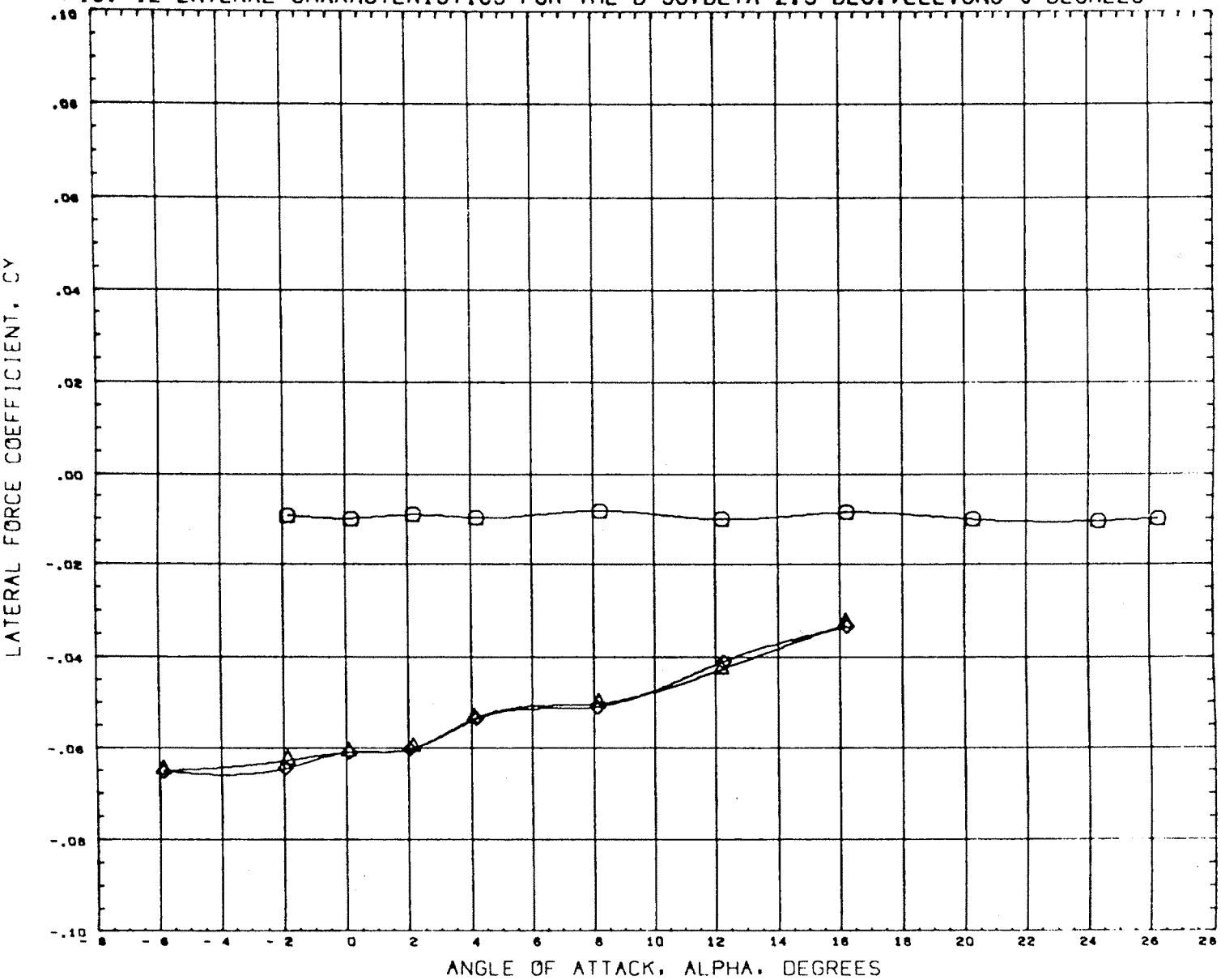
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA25O)	○	AMES 66-563 B22C8W19V10R2
(DBA15O)	△	AMES 66-563 B22C8W19V10R2
(DBA15B)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

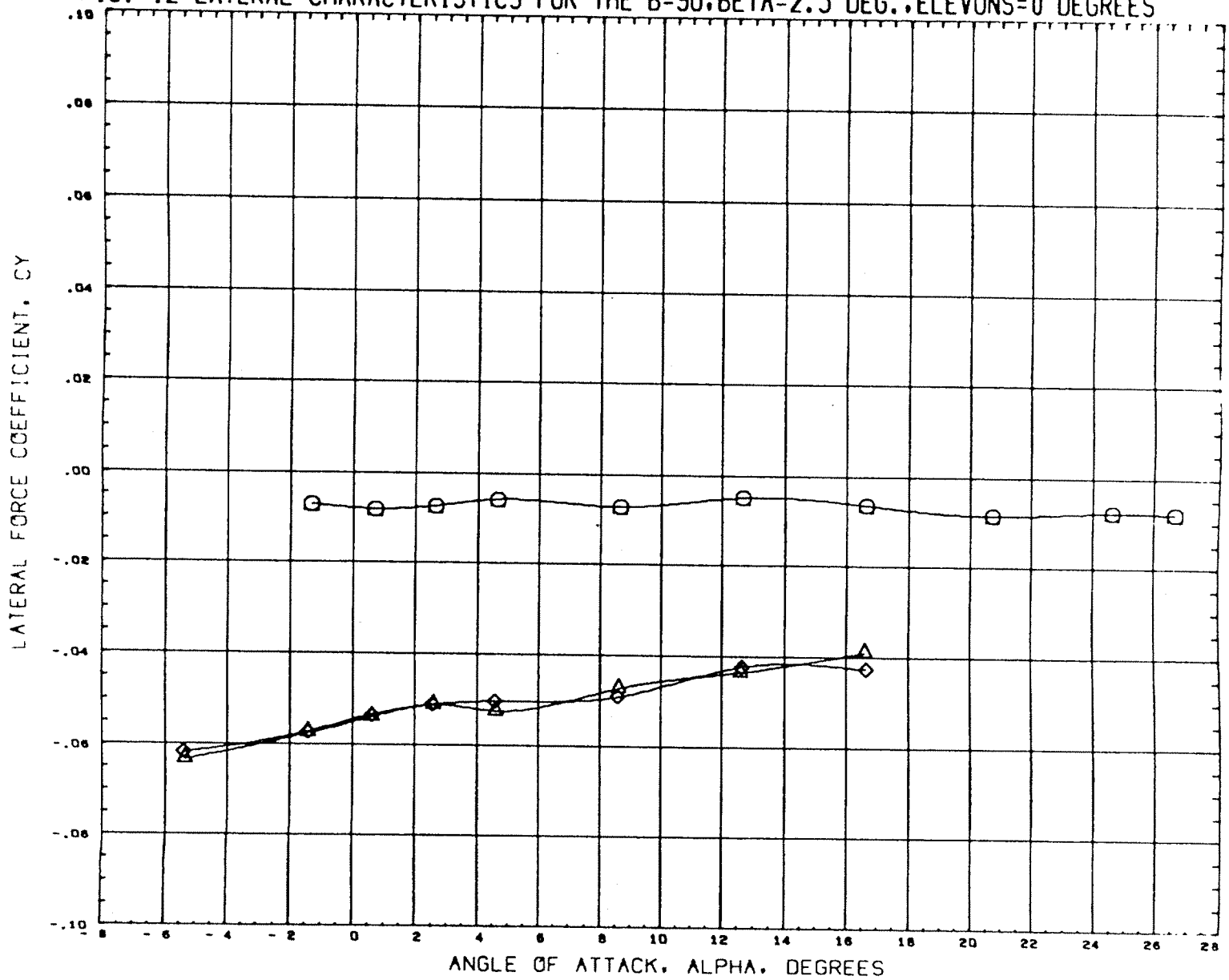


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



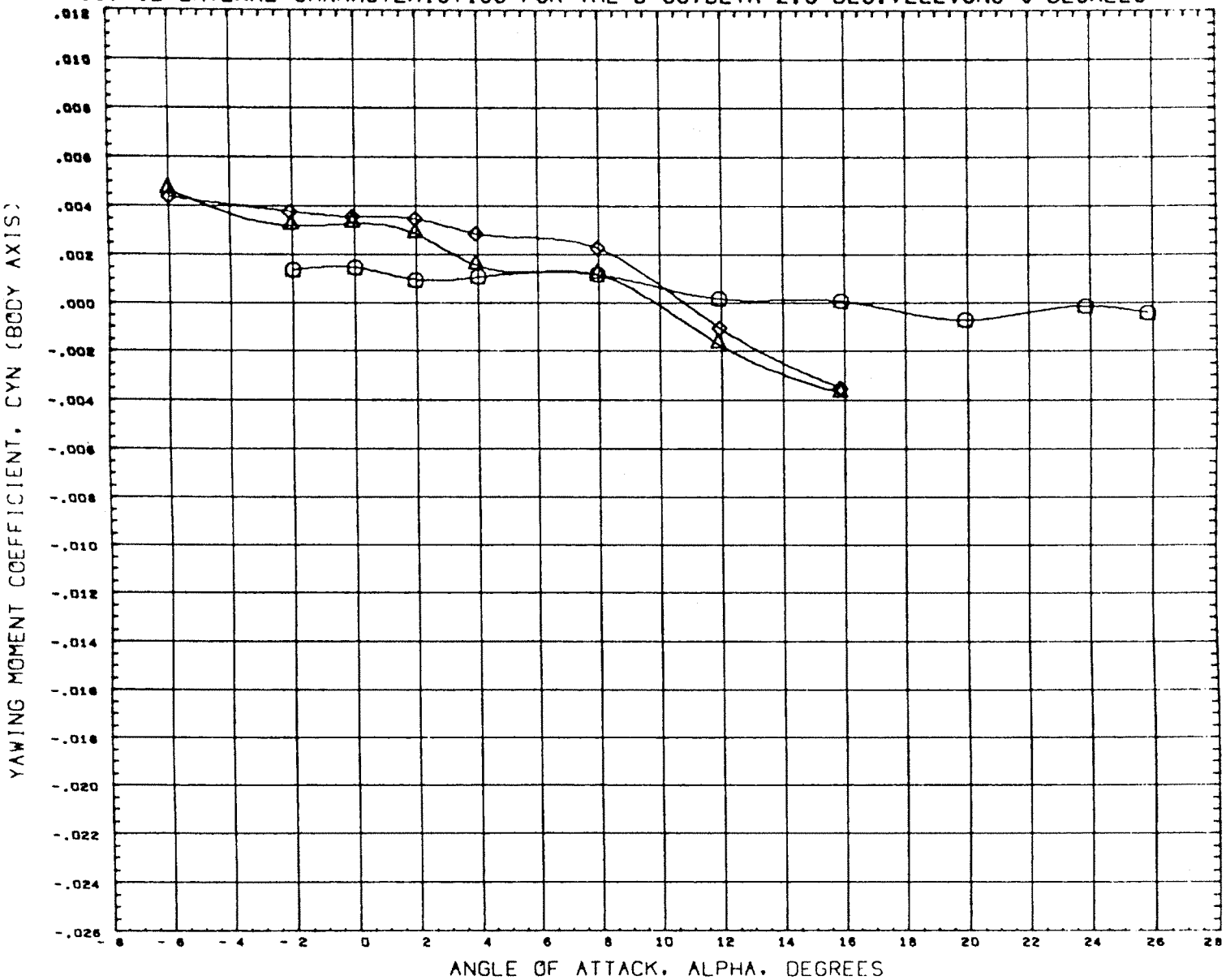
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA130)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

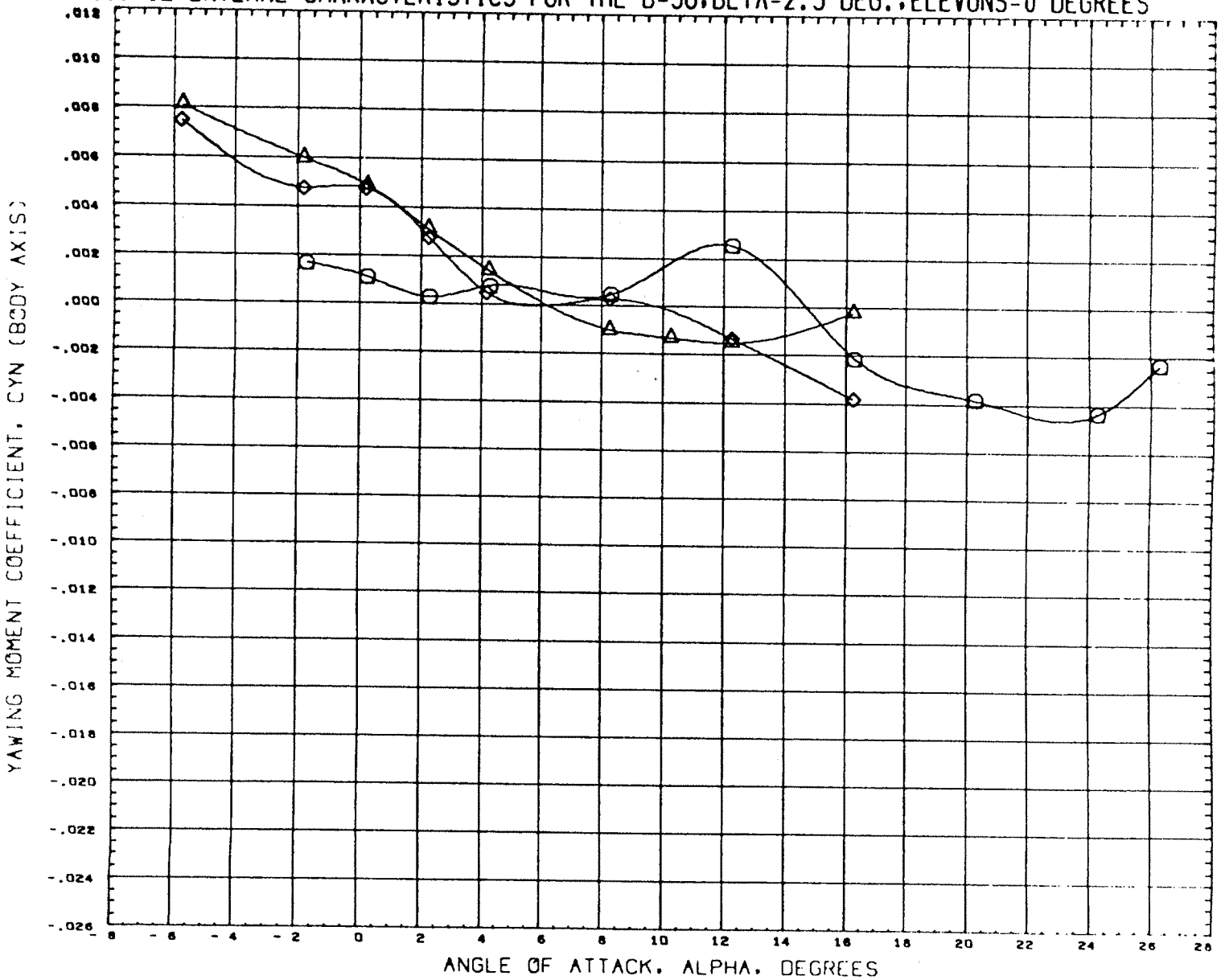


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



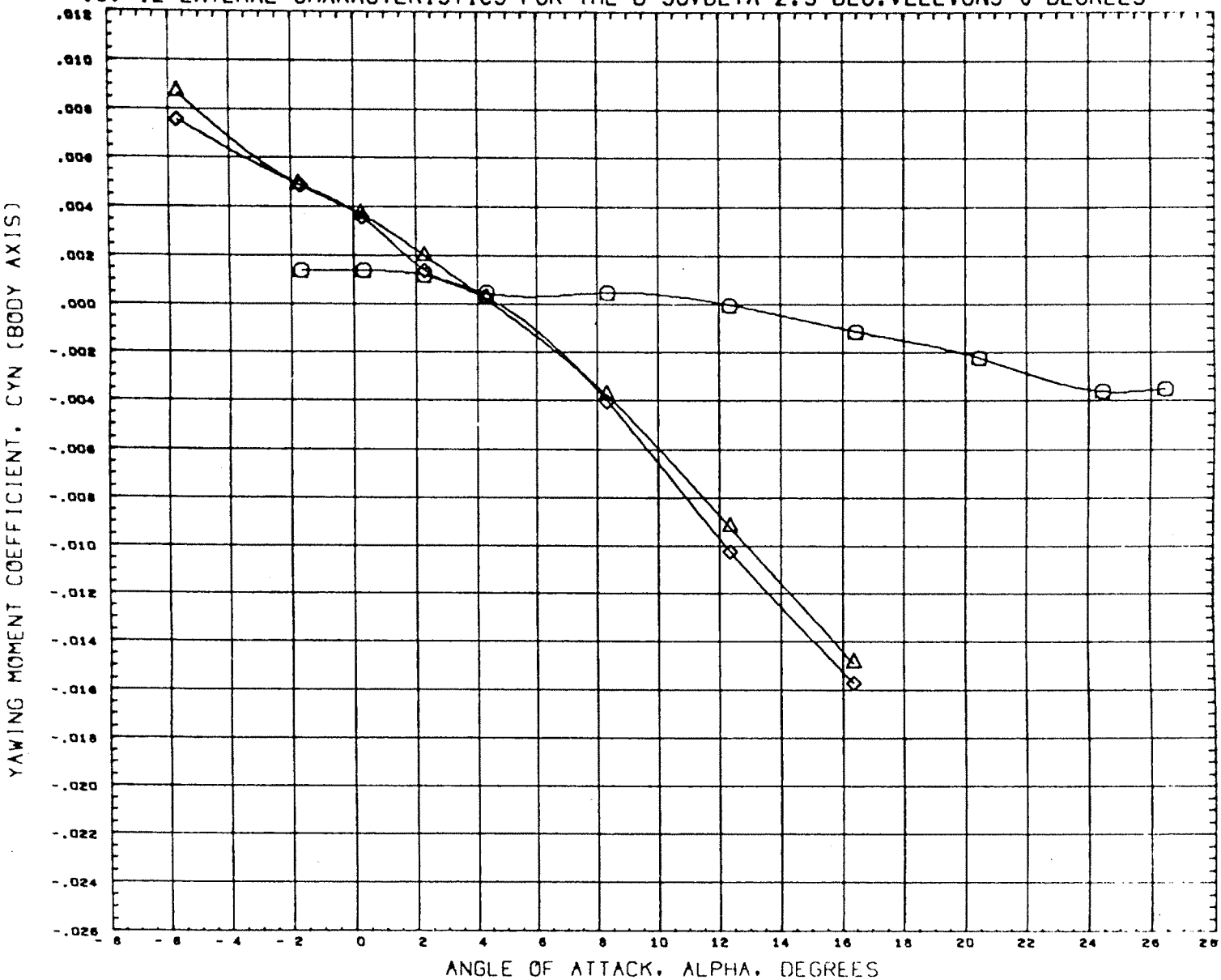
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(08A250)	○	AMES 66-563 B22C8W19V10R2
(08A150)	△	AMES 66-563 B22C8W19V10R2
(08A158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

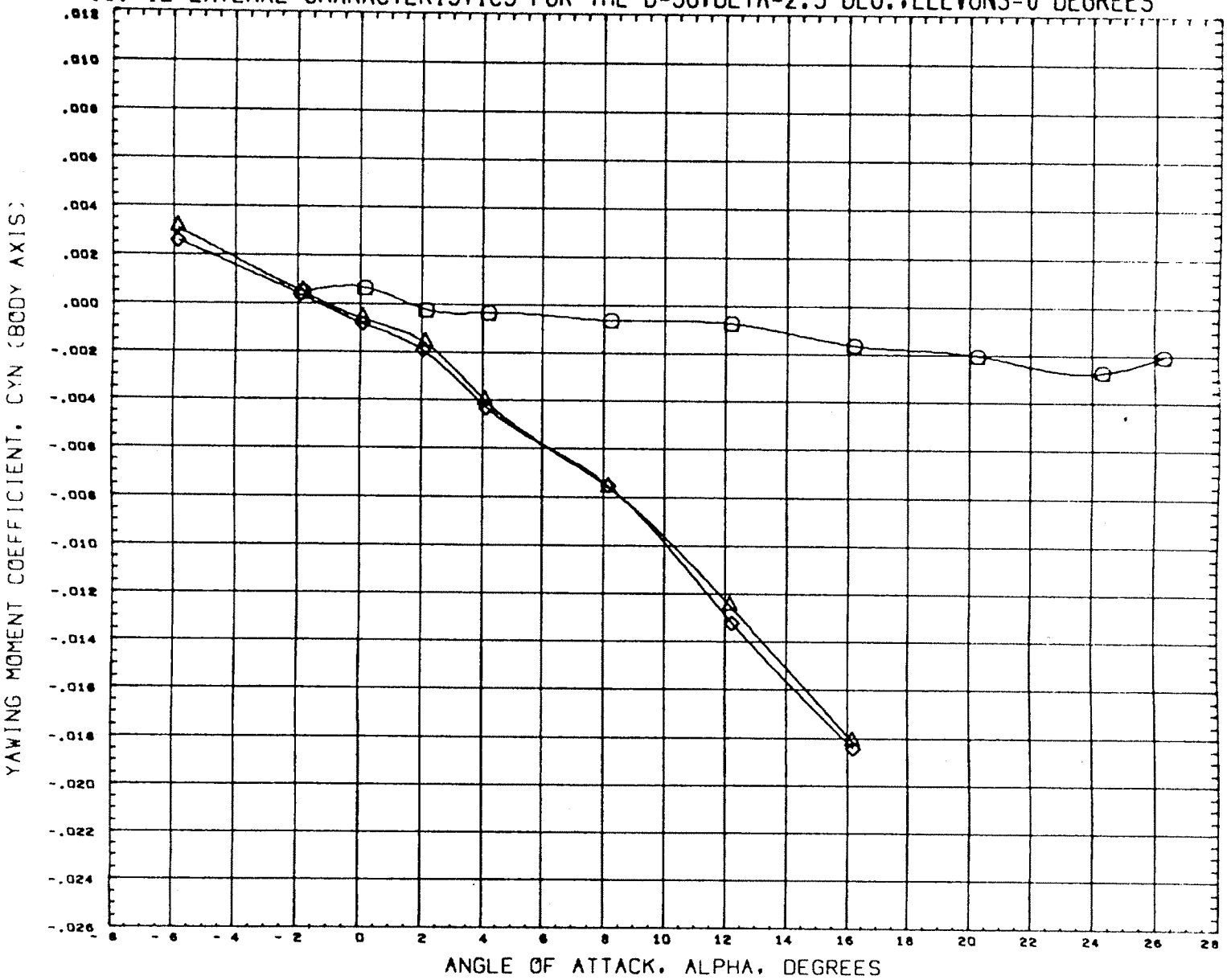


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C6W19V10R2
(DBA150)	△	AMES 66-563 B22C6W19V10R2
(DBA158)	◇	AMES 66-563 B22C6W19V10R2

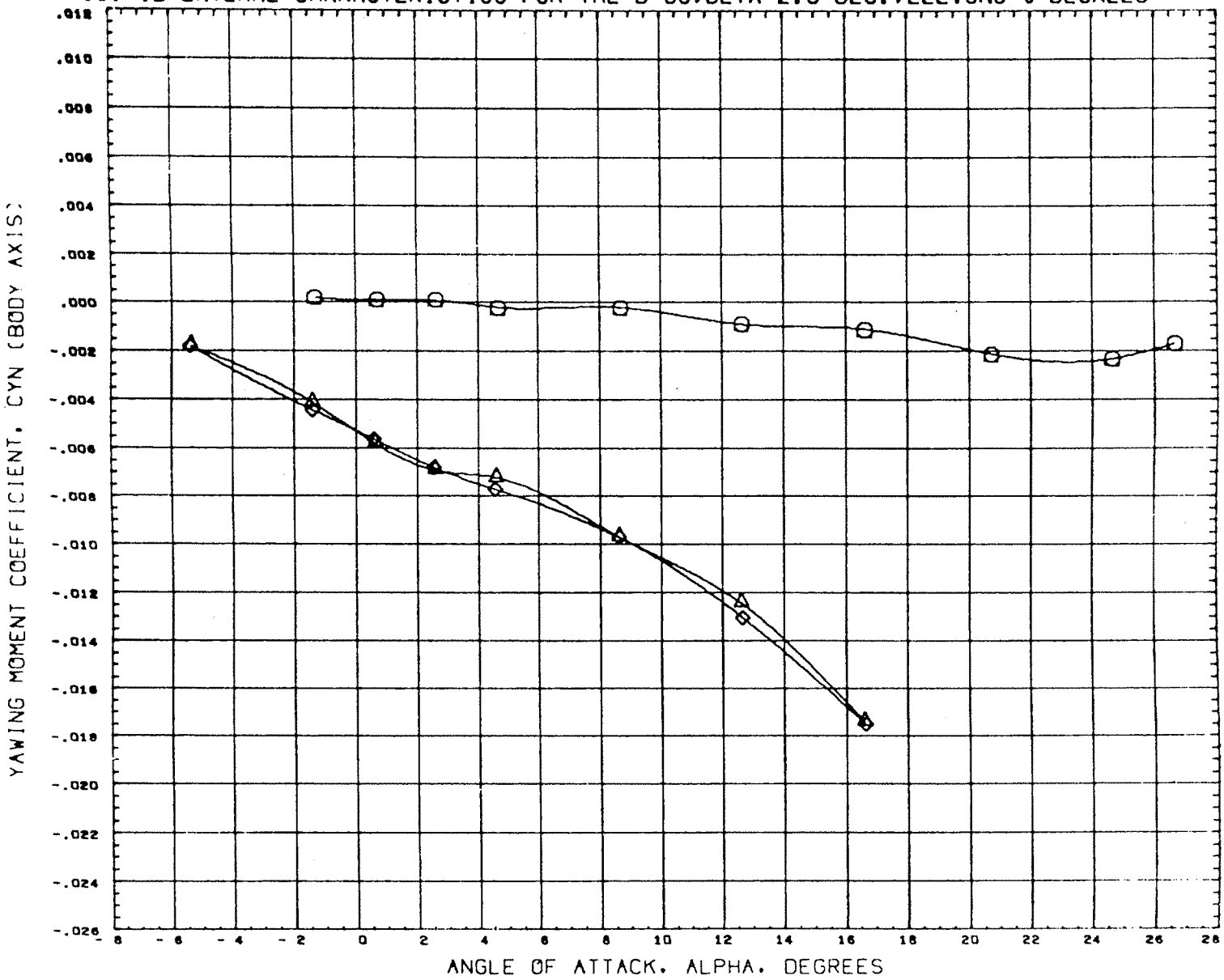
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

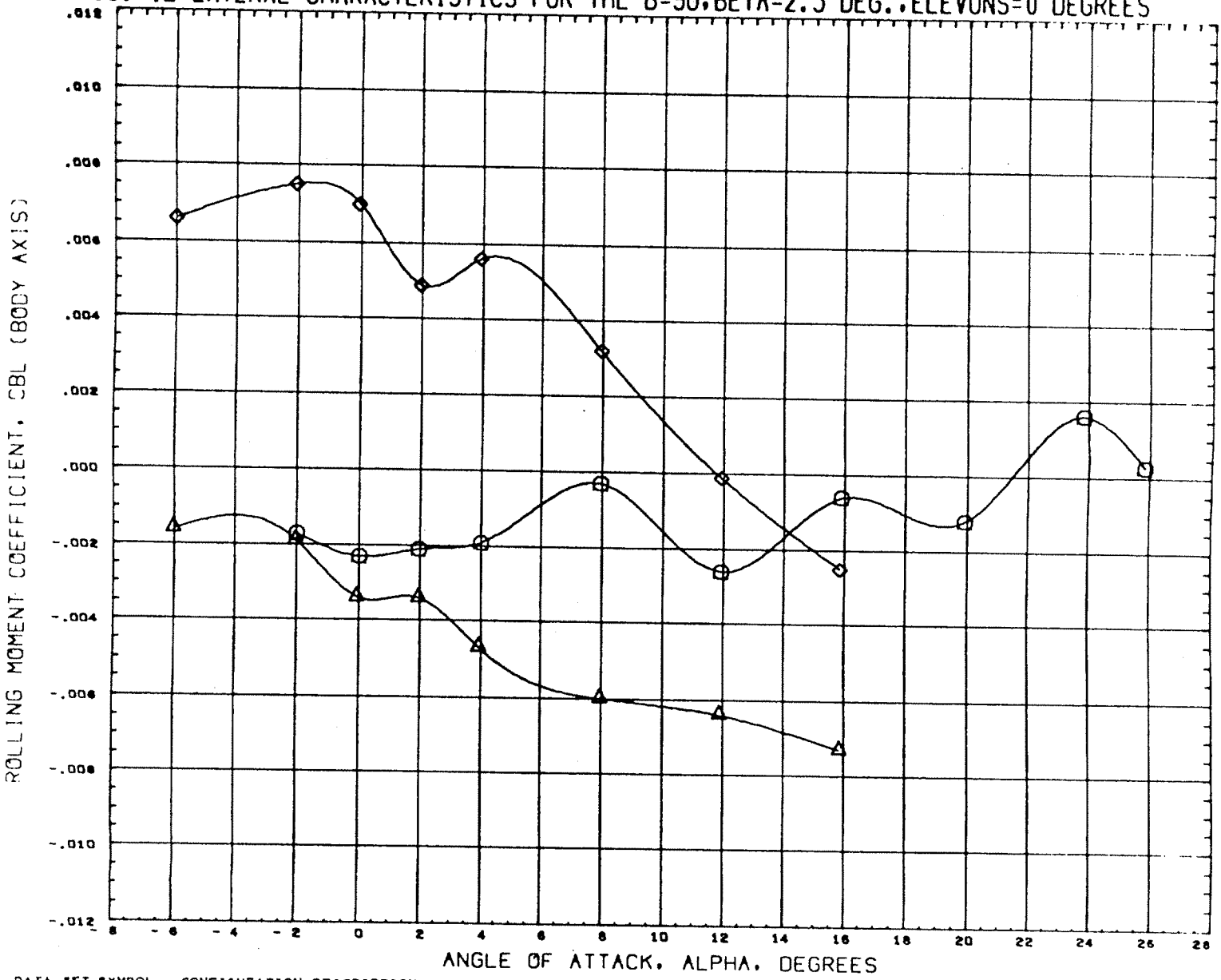


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

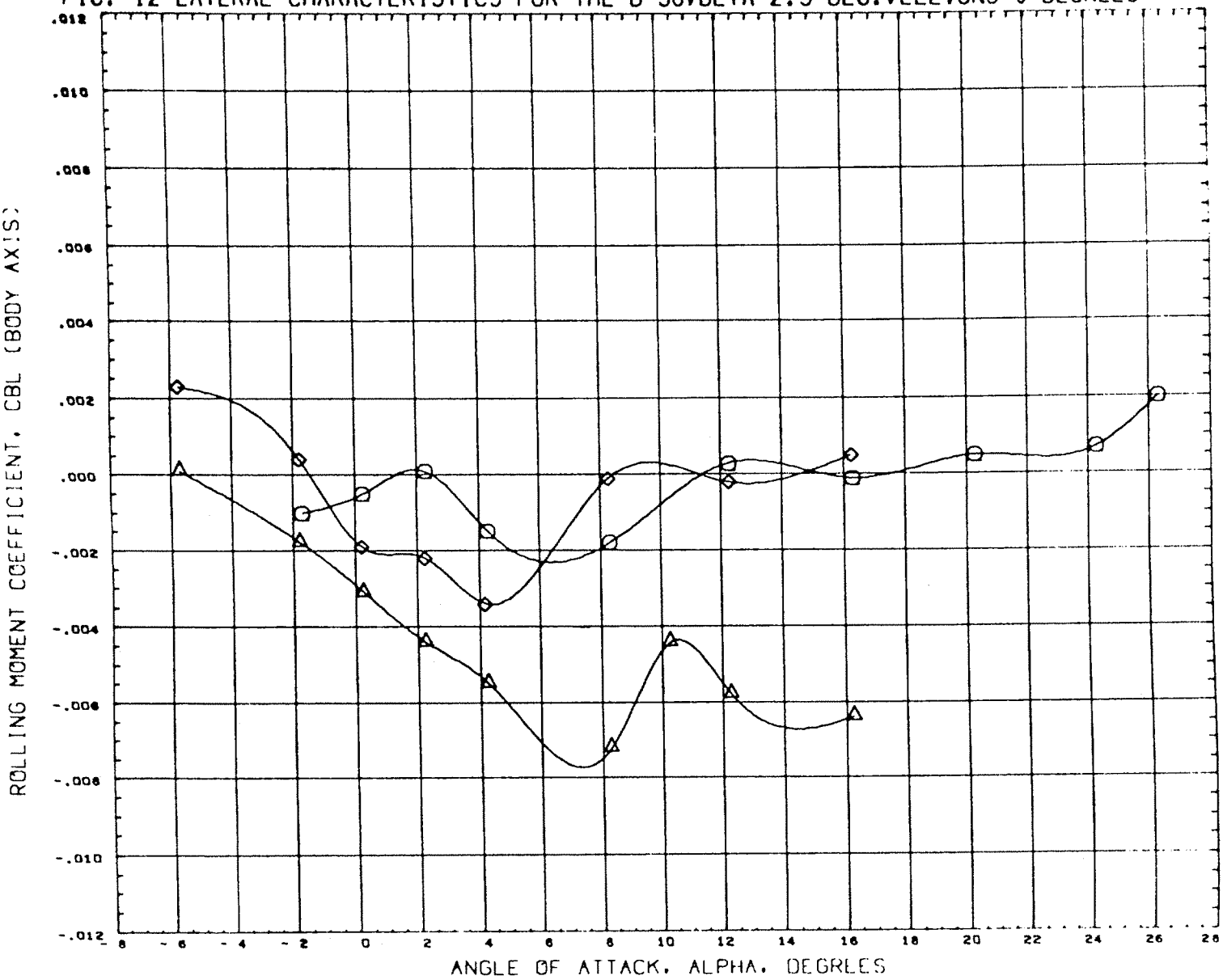
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



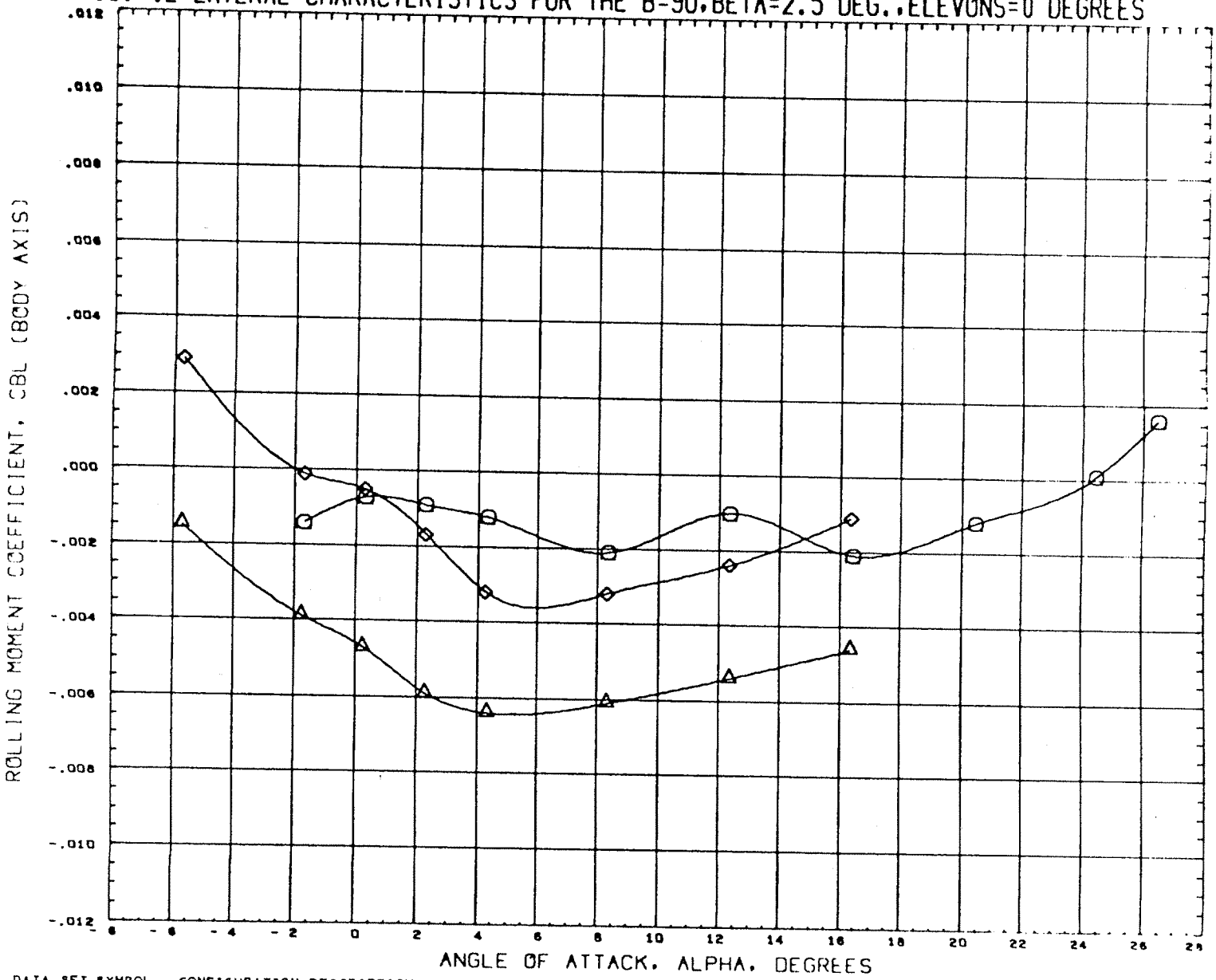
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



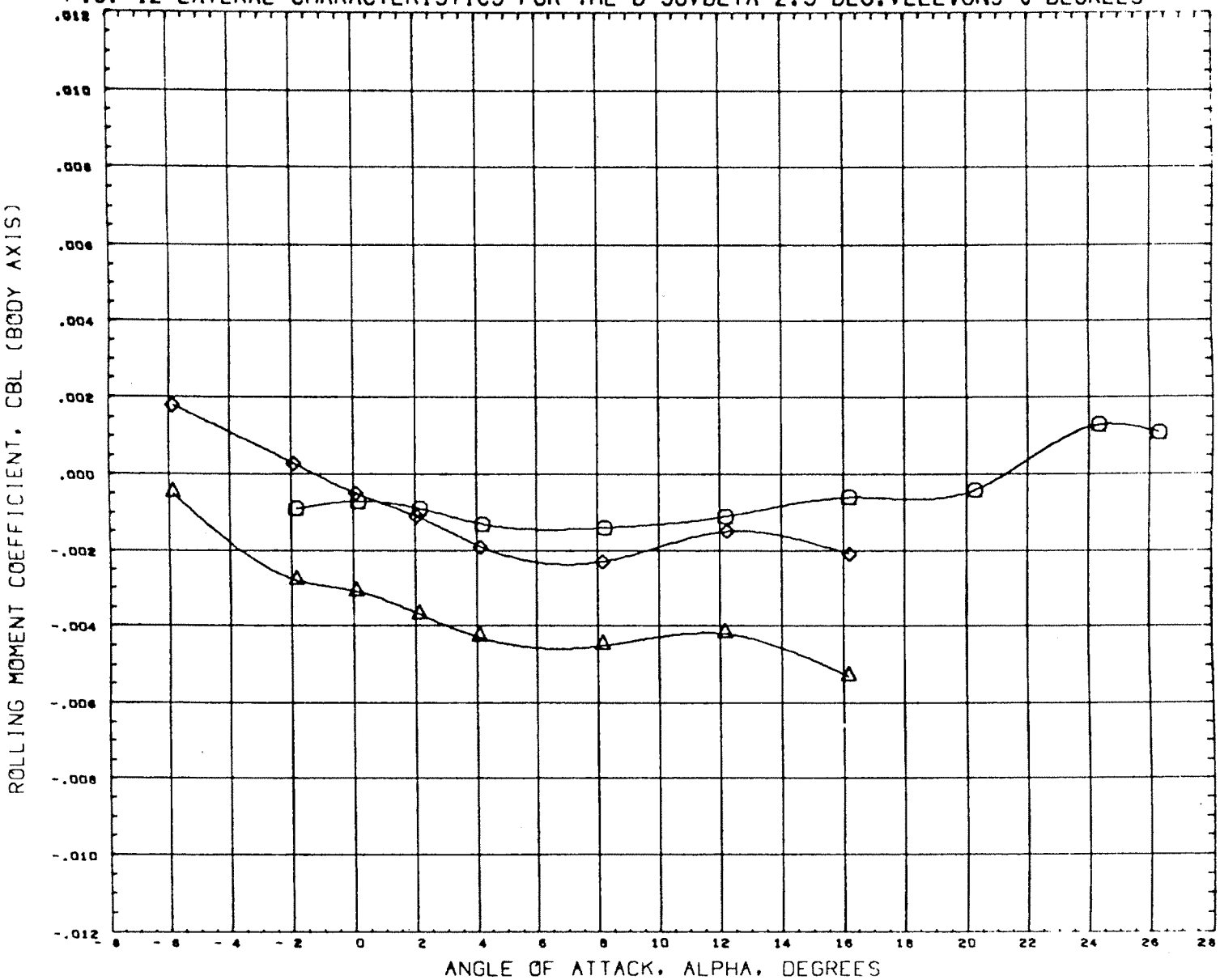
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

MACH 1.204

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	79.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

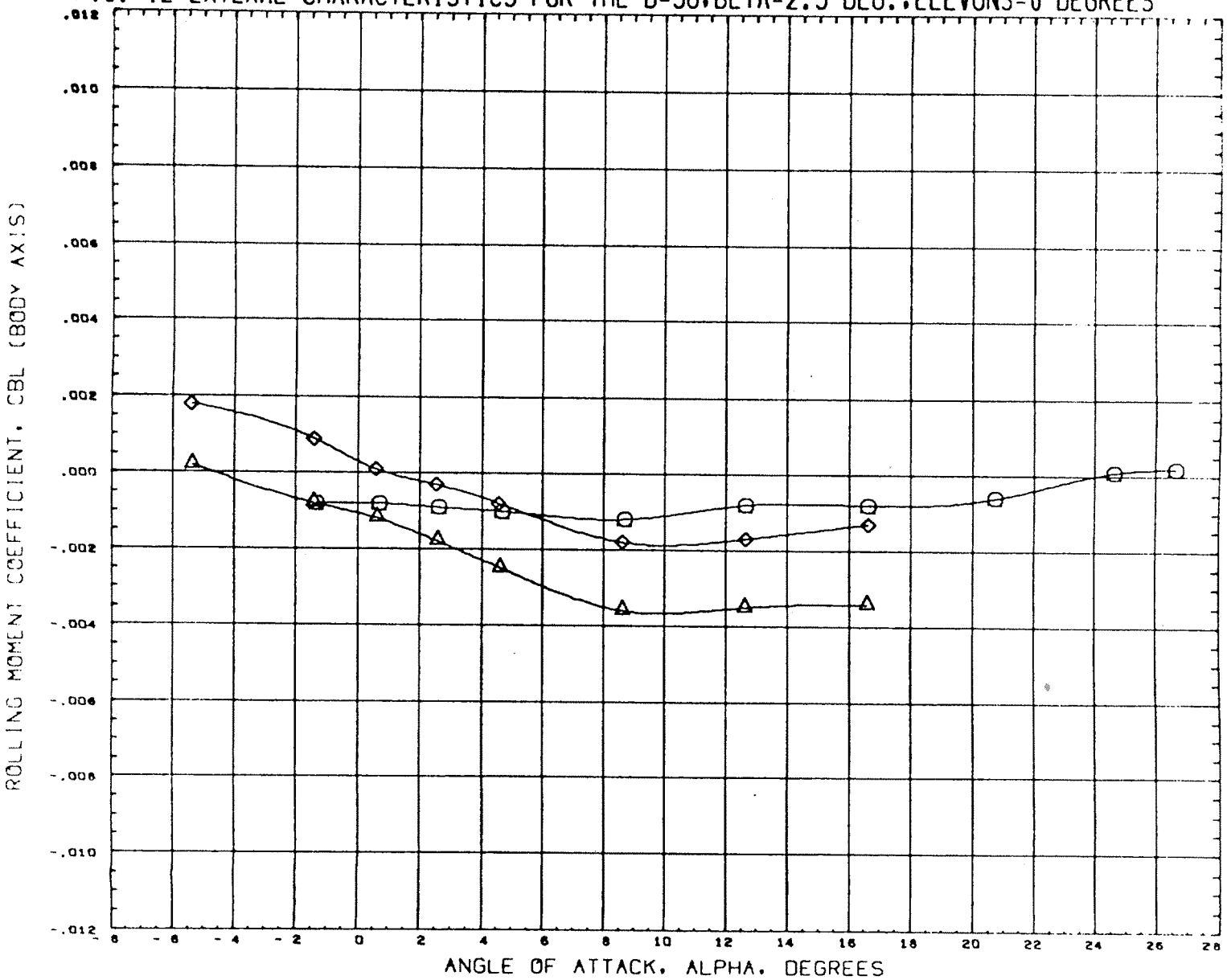


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



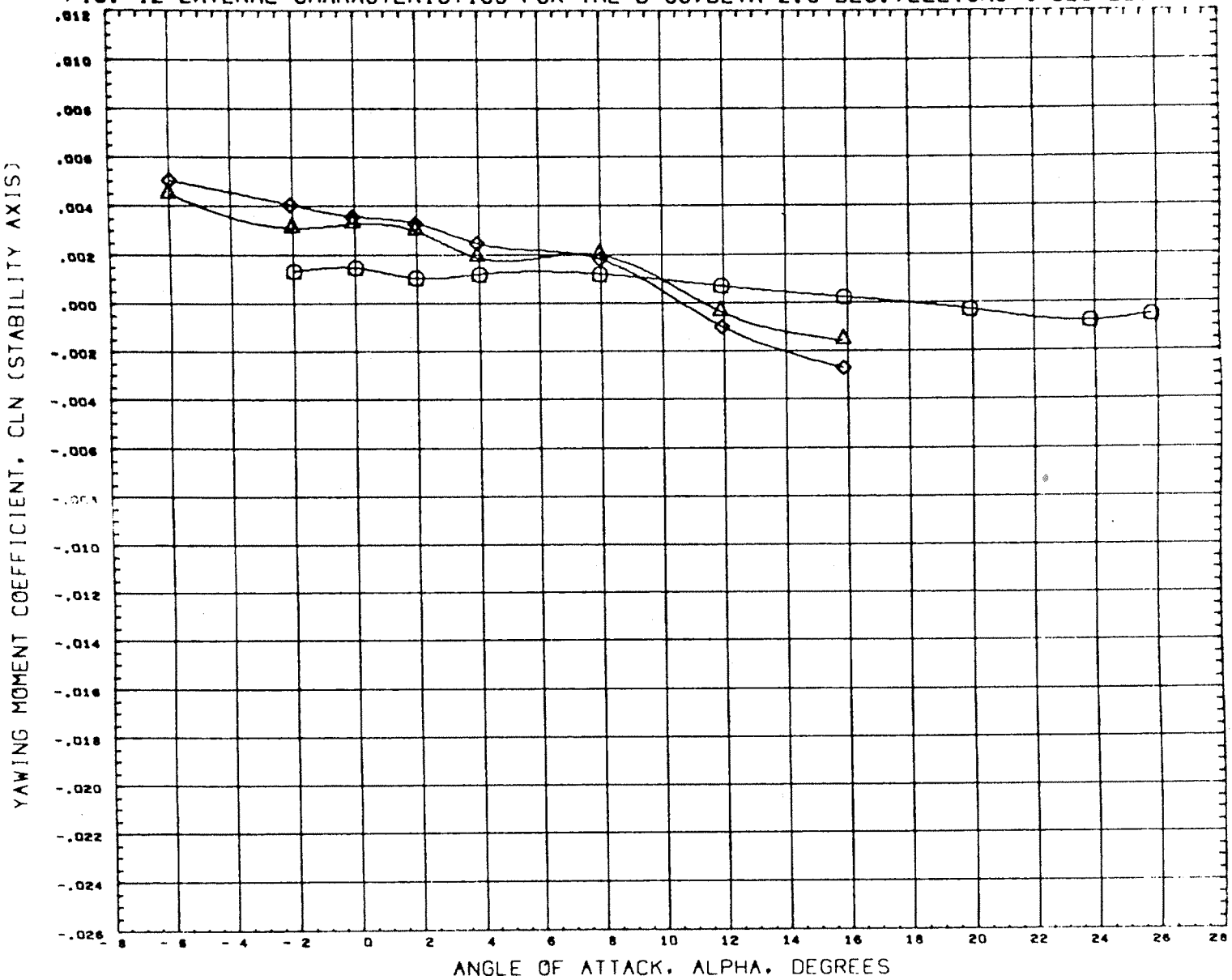
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA150)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	79.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U, BETA=2.5 DEG., ELEVONS=0 DEGREES



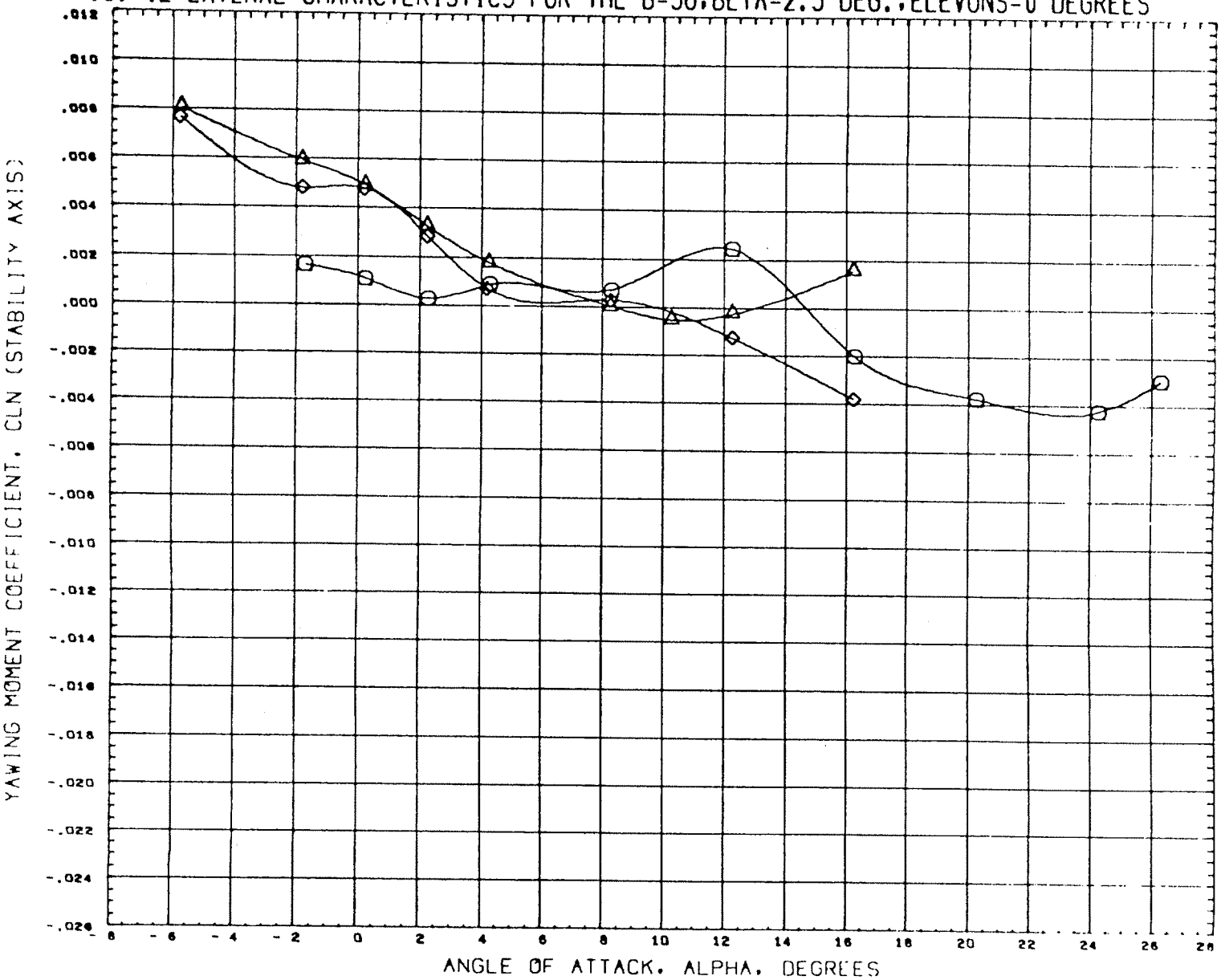
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.811

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



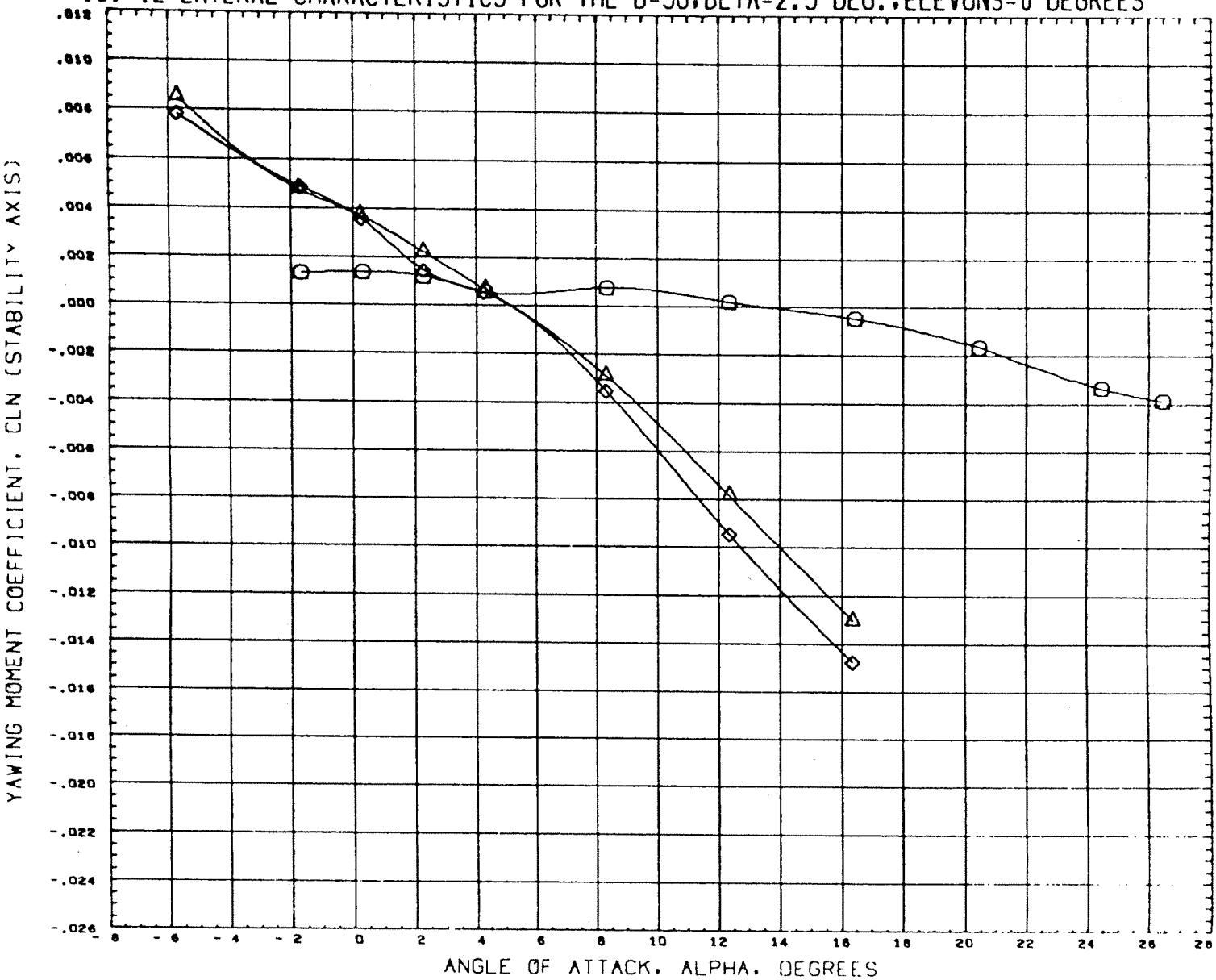
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



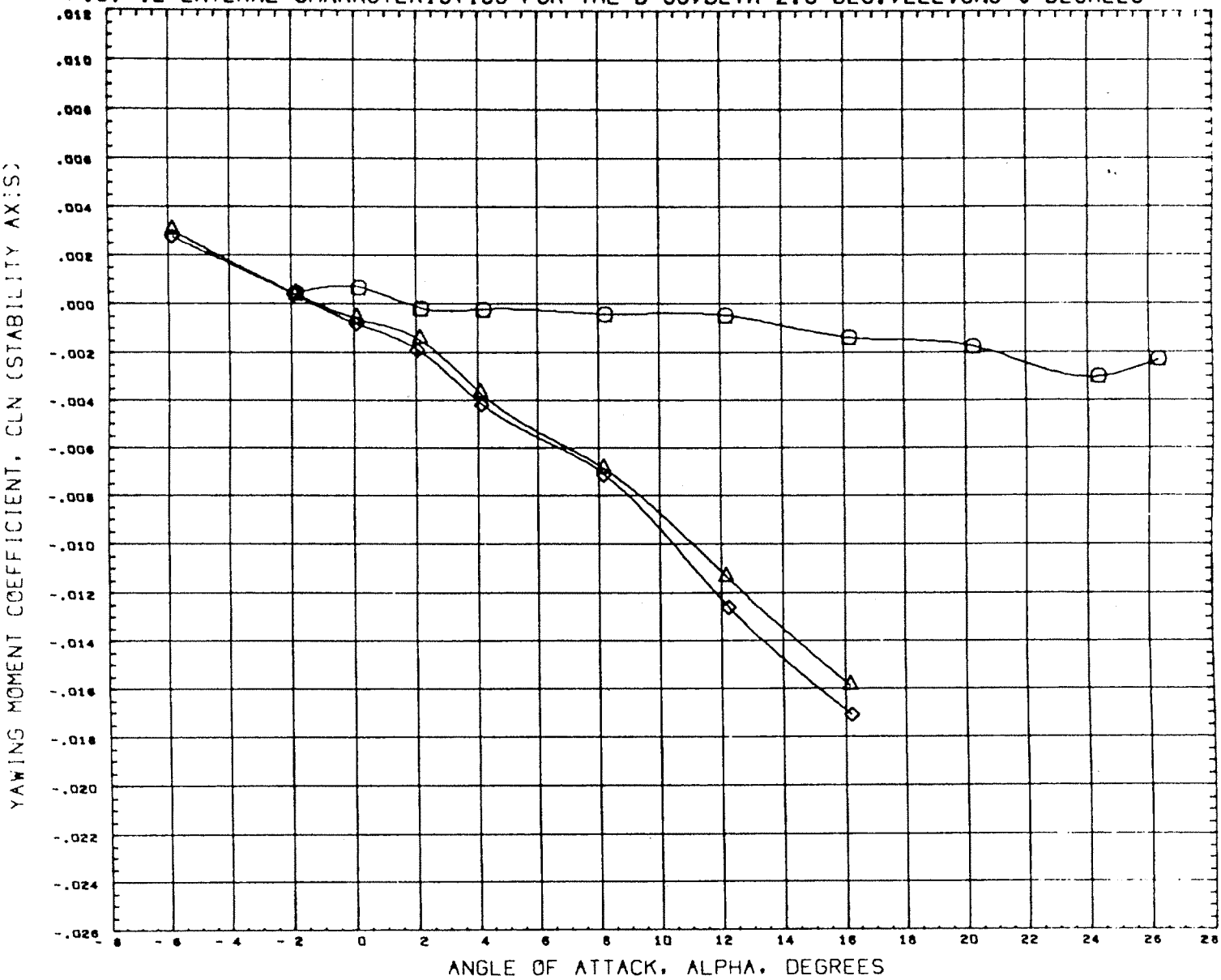
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA156)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



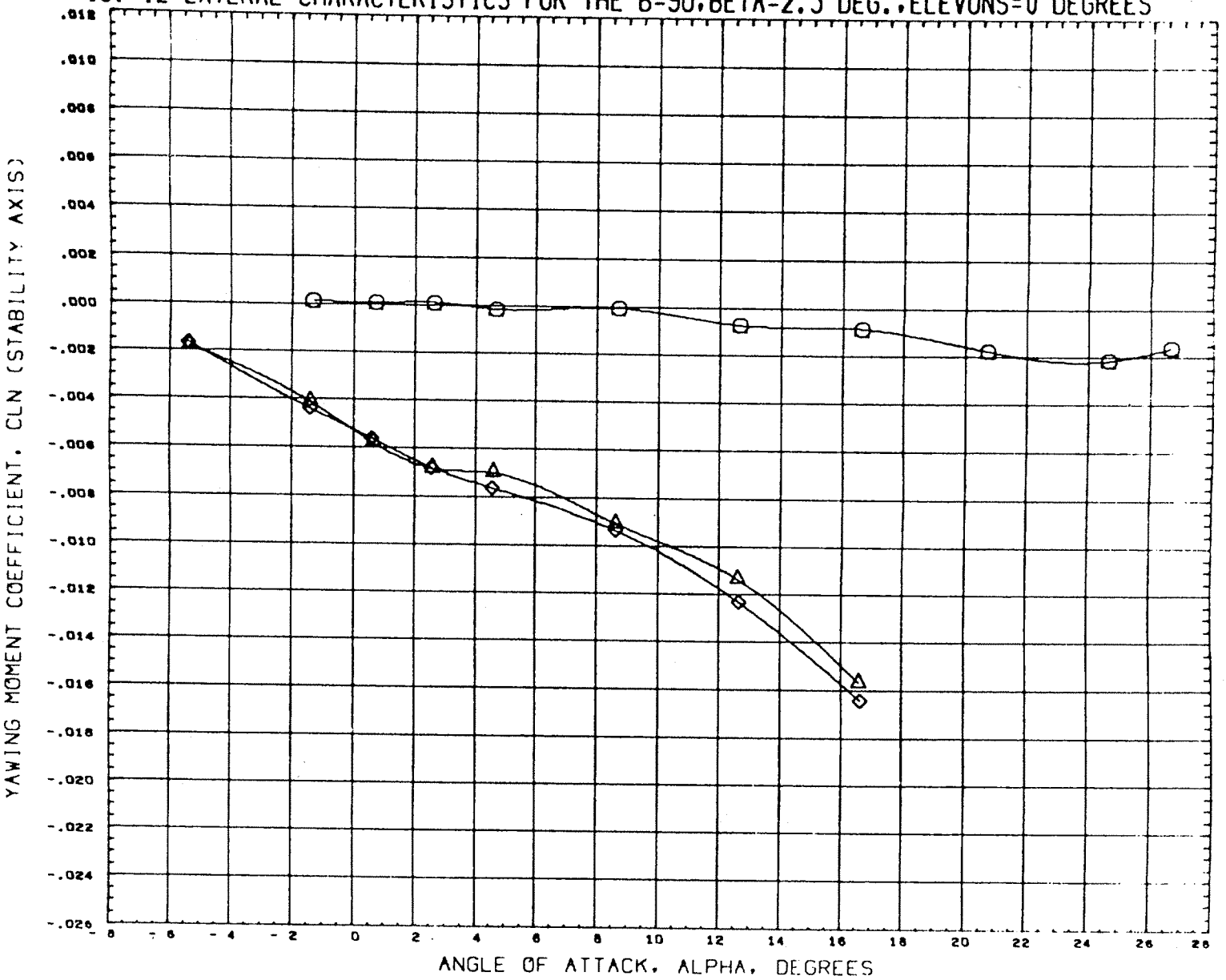
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA25D)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA15D)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA15B)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



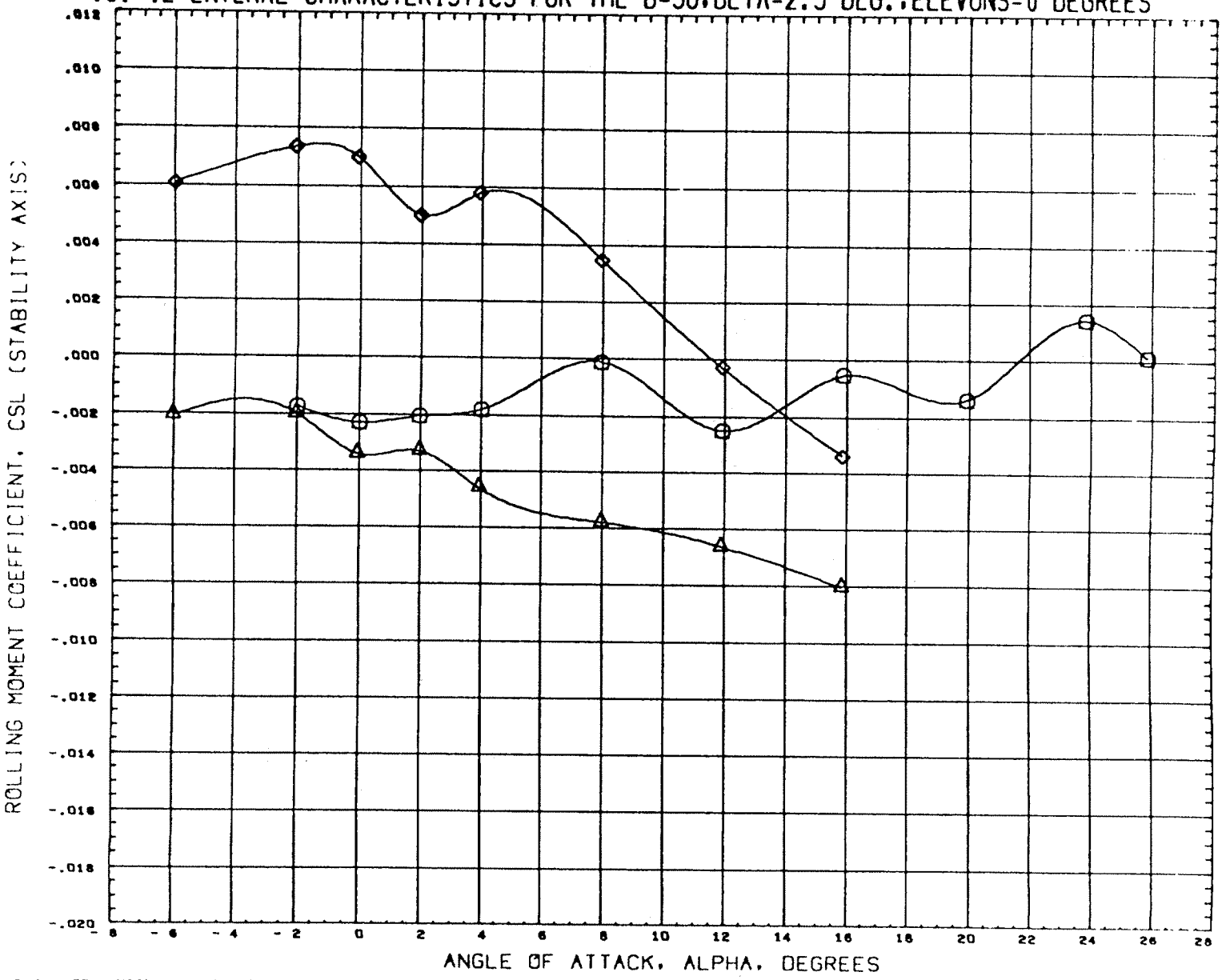
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	15.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA156)	◇	AMES 66-563 B22C8W19V10R2

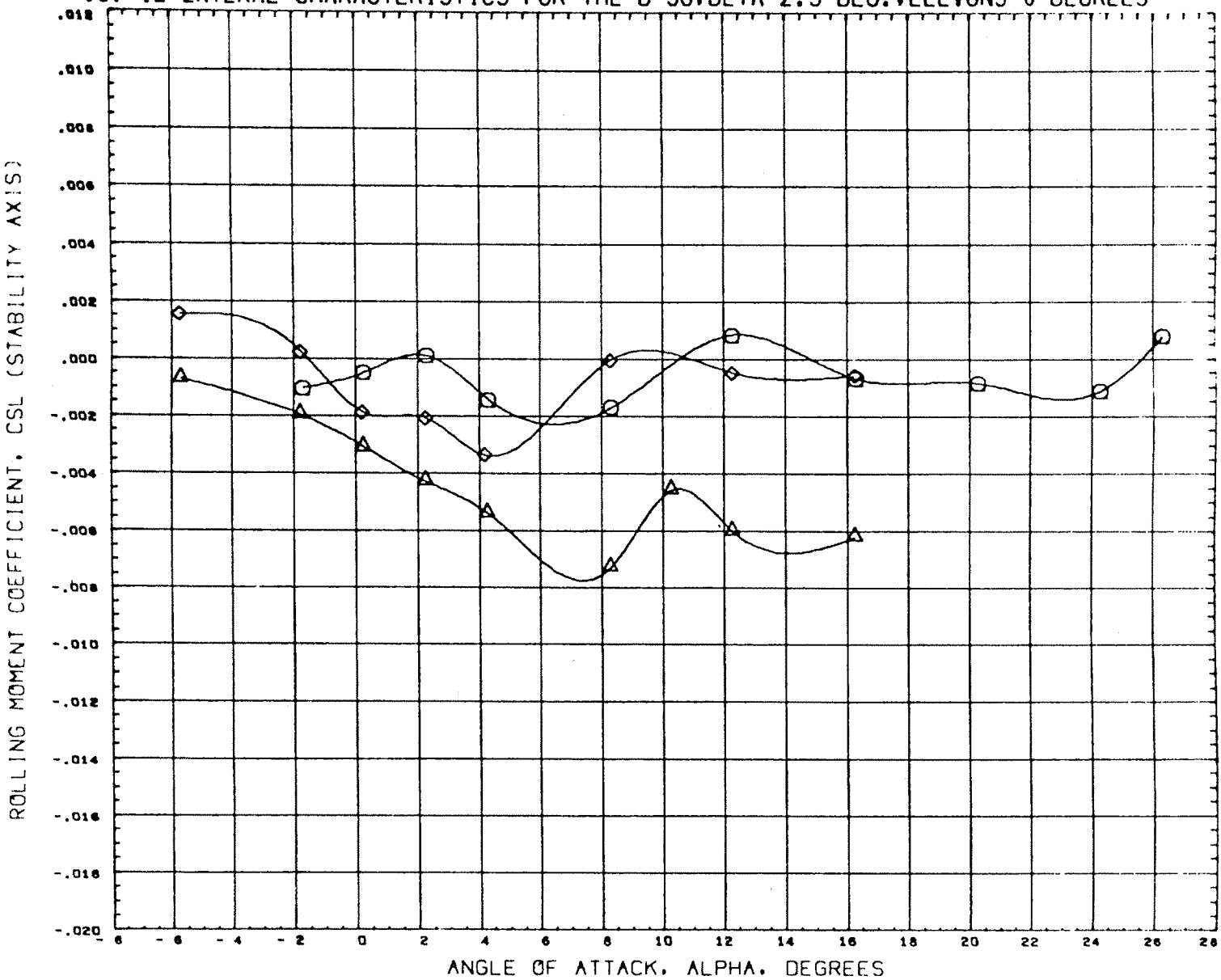
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES

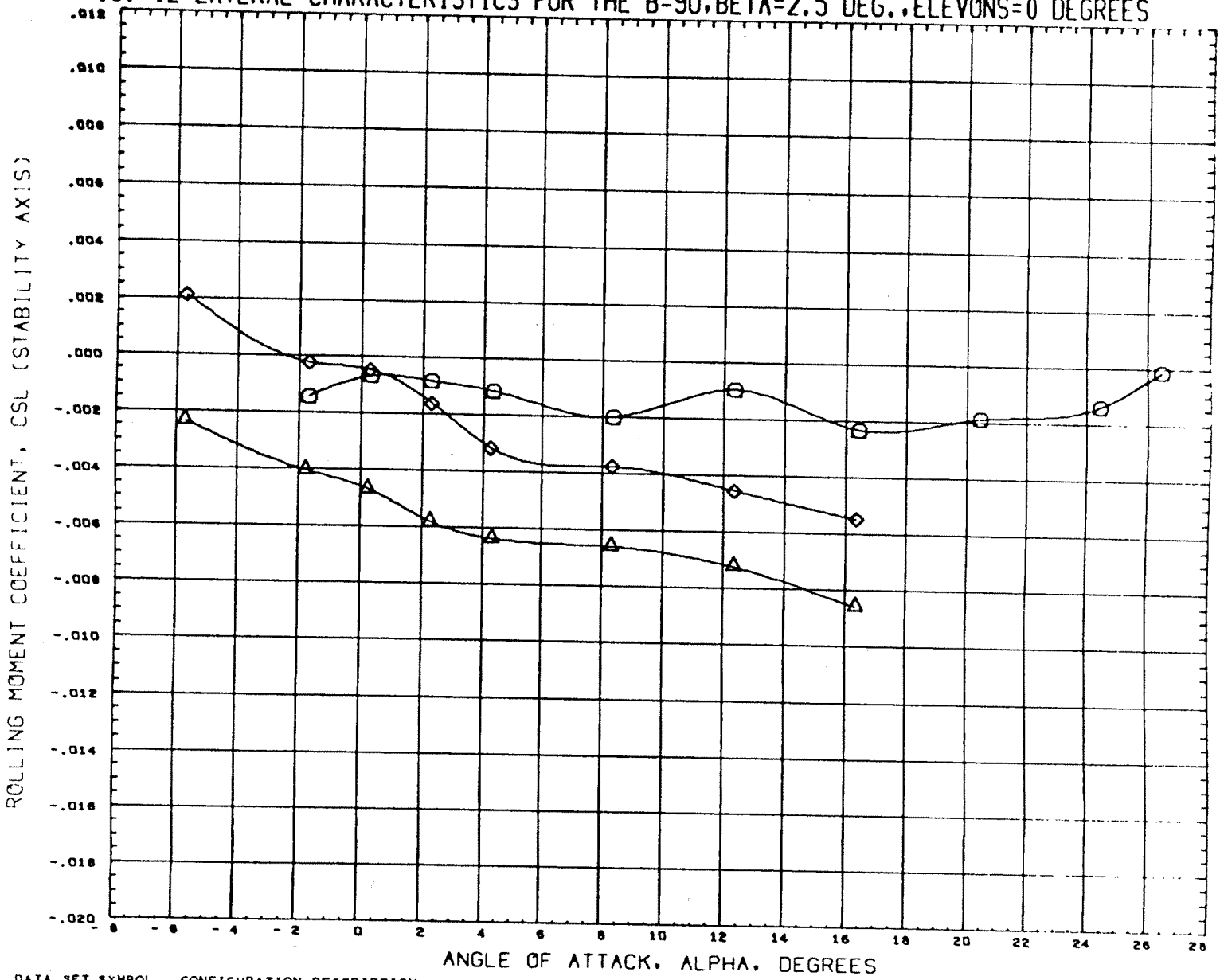


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(DBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(DBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

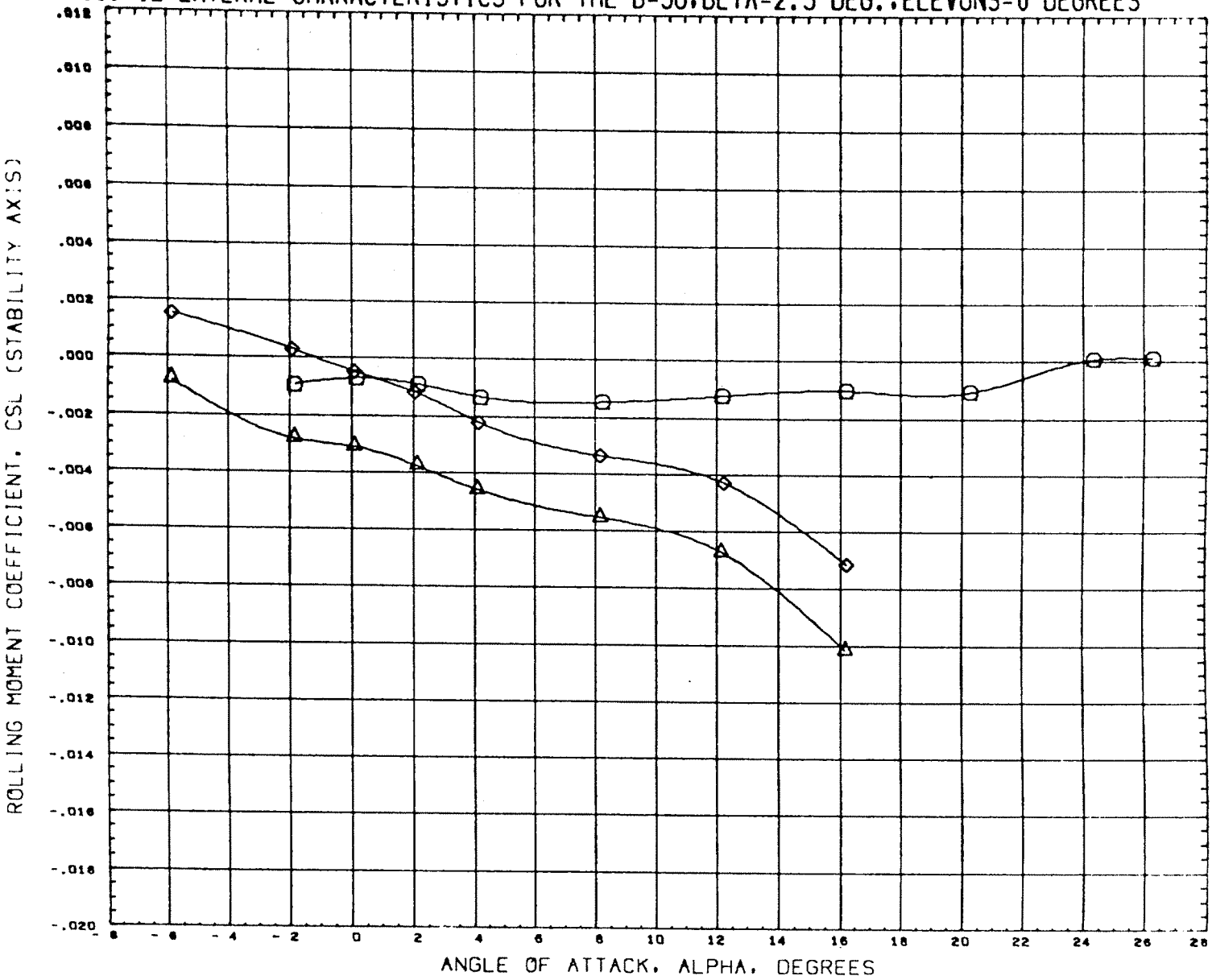
MACH 1.204

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



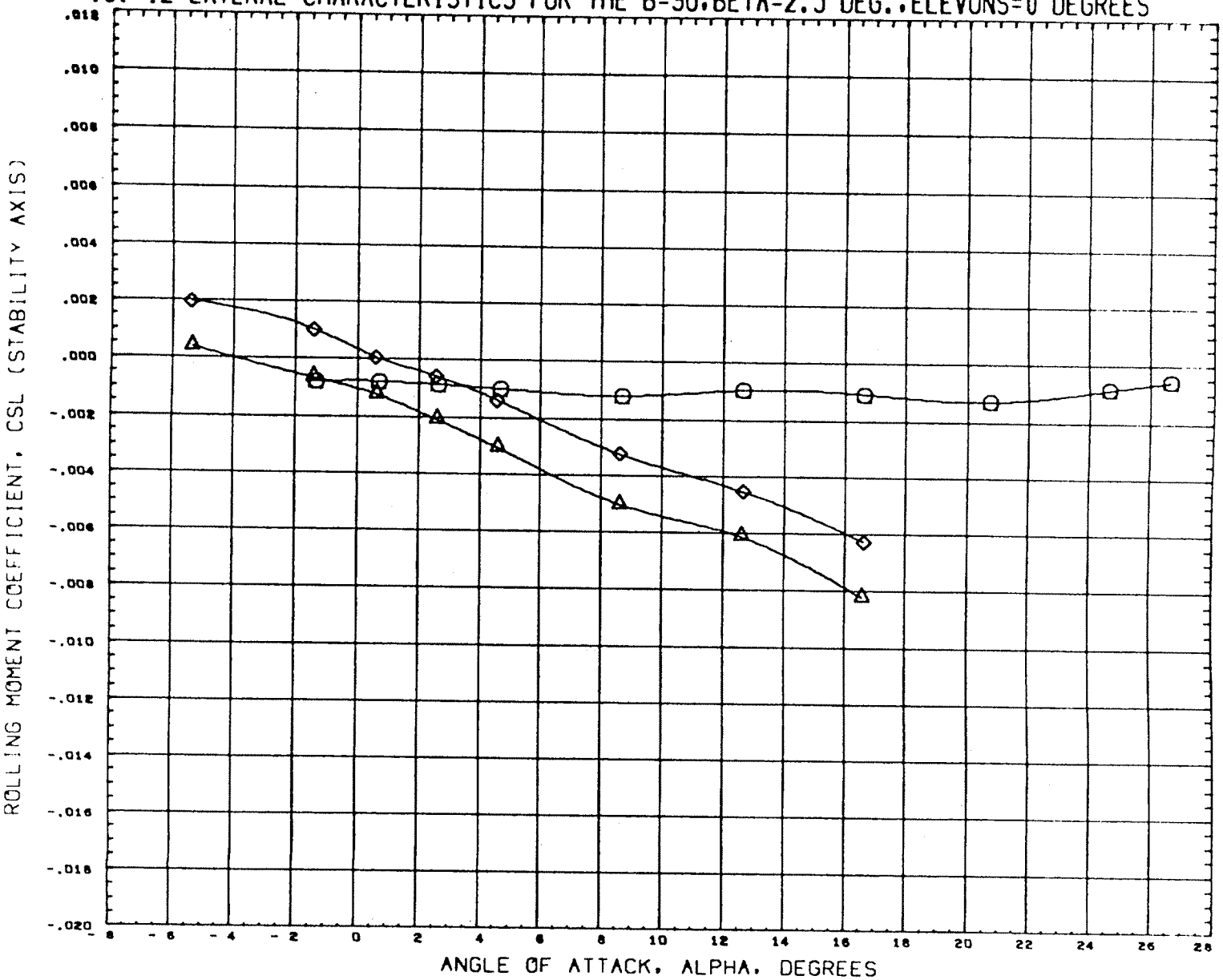
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA25O)	○	AMES 66-563 B22C8W19V10R2
(DBA15O)	△	AMES 66-563 B22C8W19V10R2
(DBA15B)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 12 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=0 DEGREES



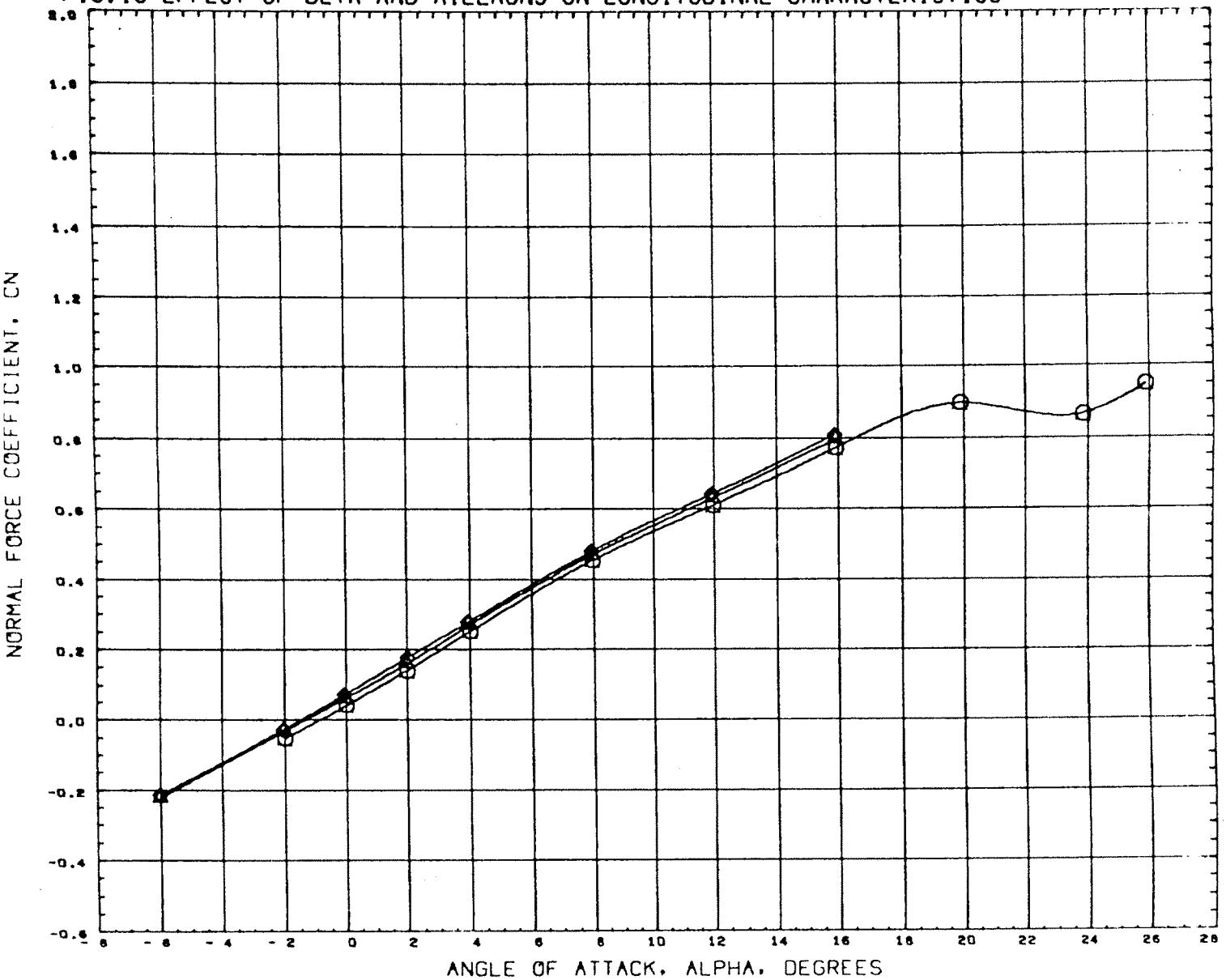
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA150)	△	AMES 66-563 B22C8W19V10R2
(DBA158)	◇	AMES 66-563 B22C8W19V10R2

MACH 2.004

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



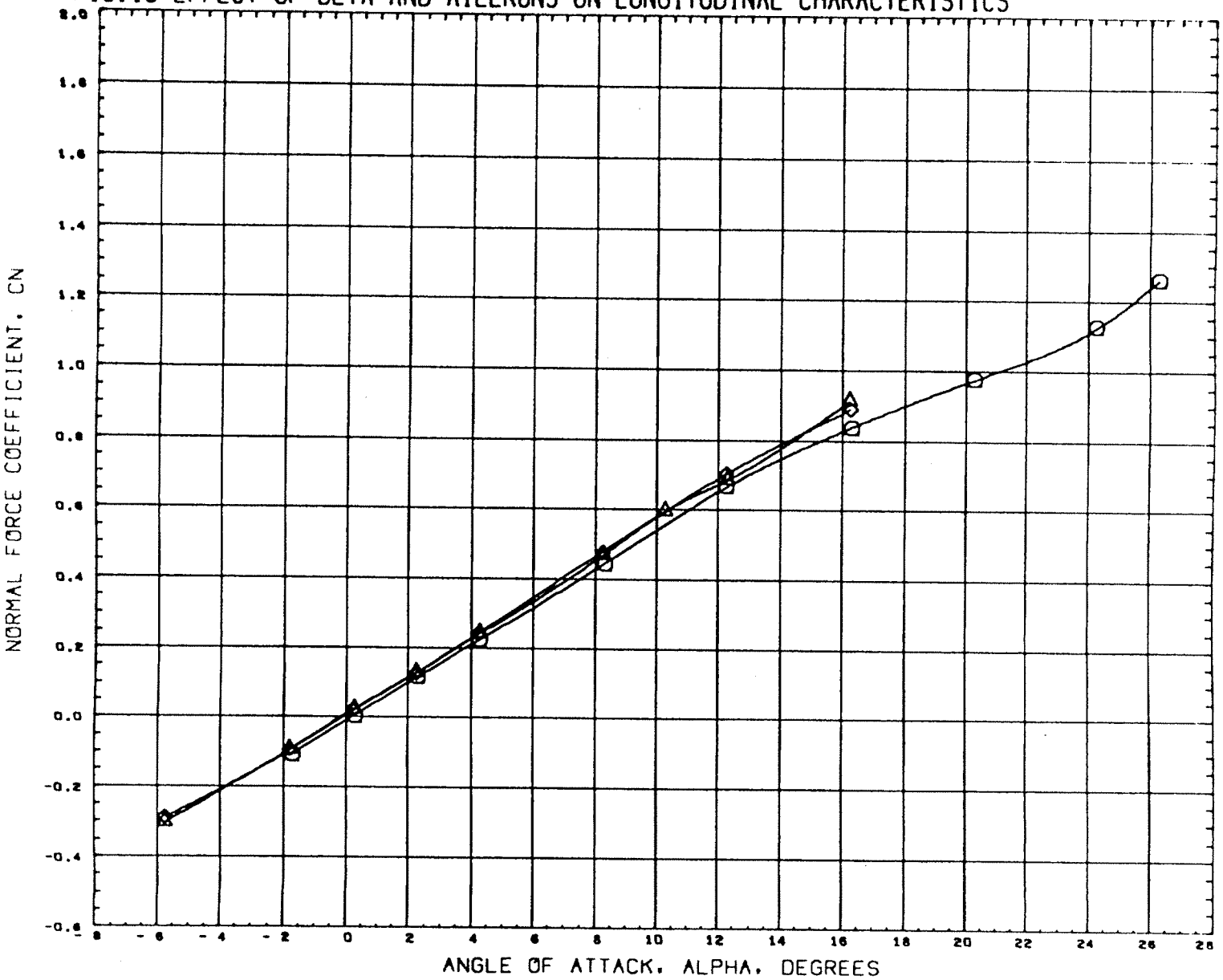
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



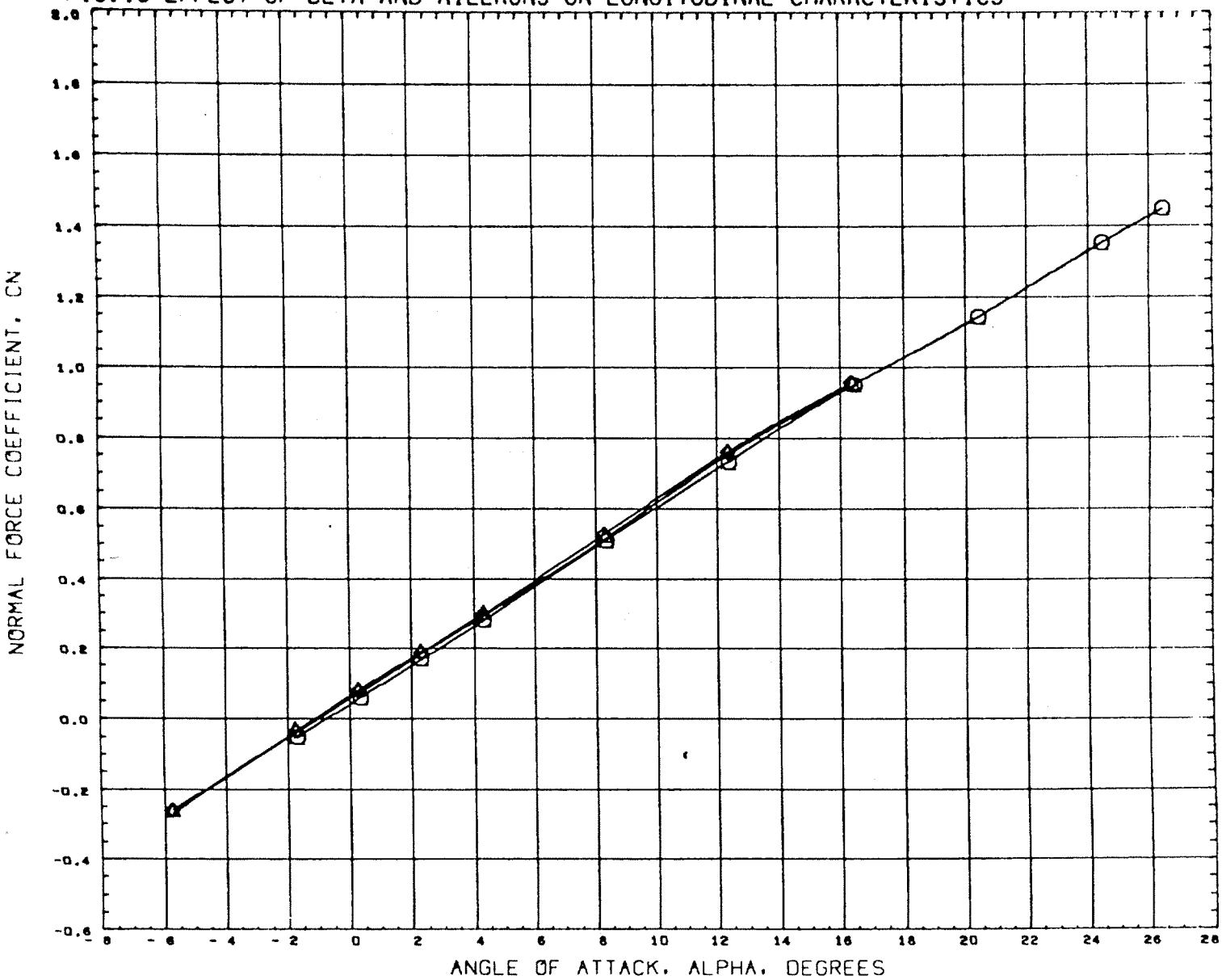
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

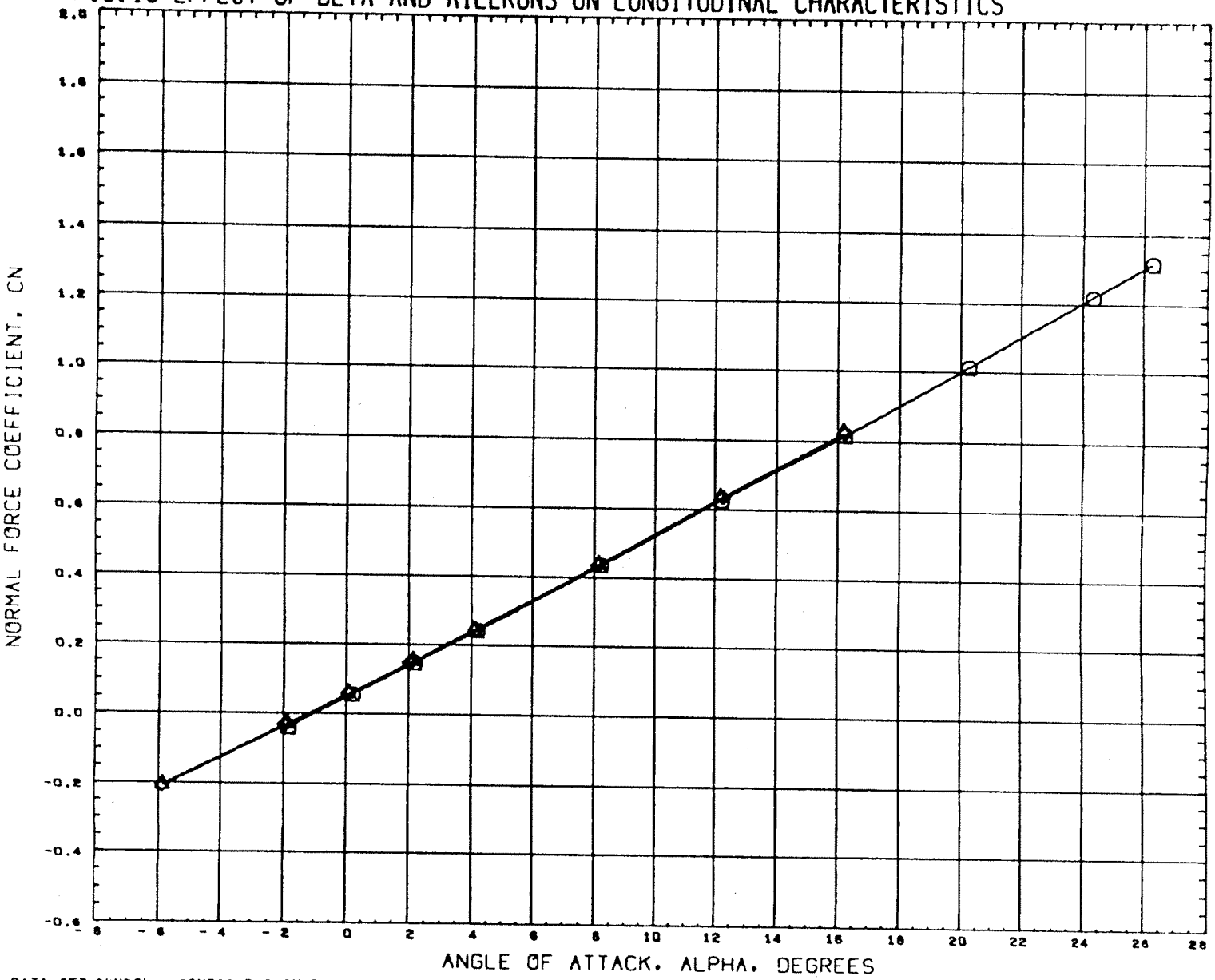


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



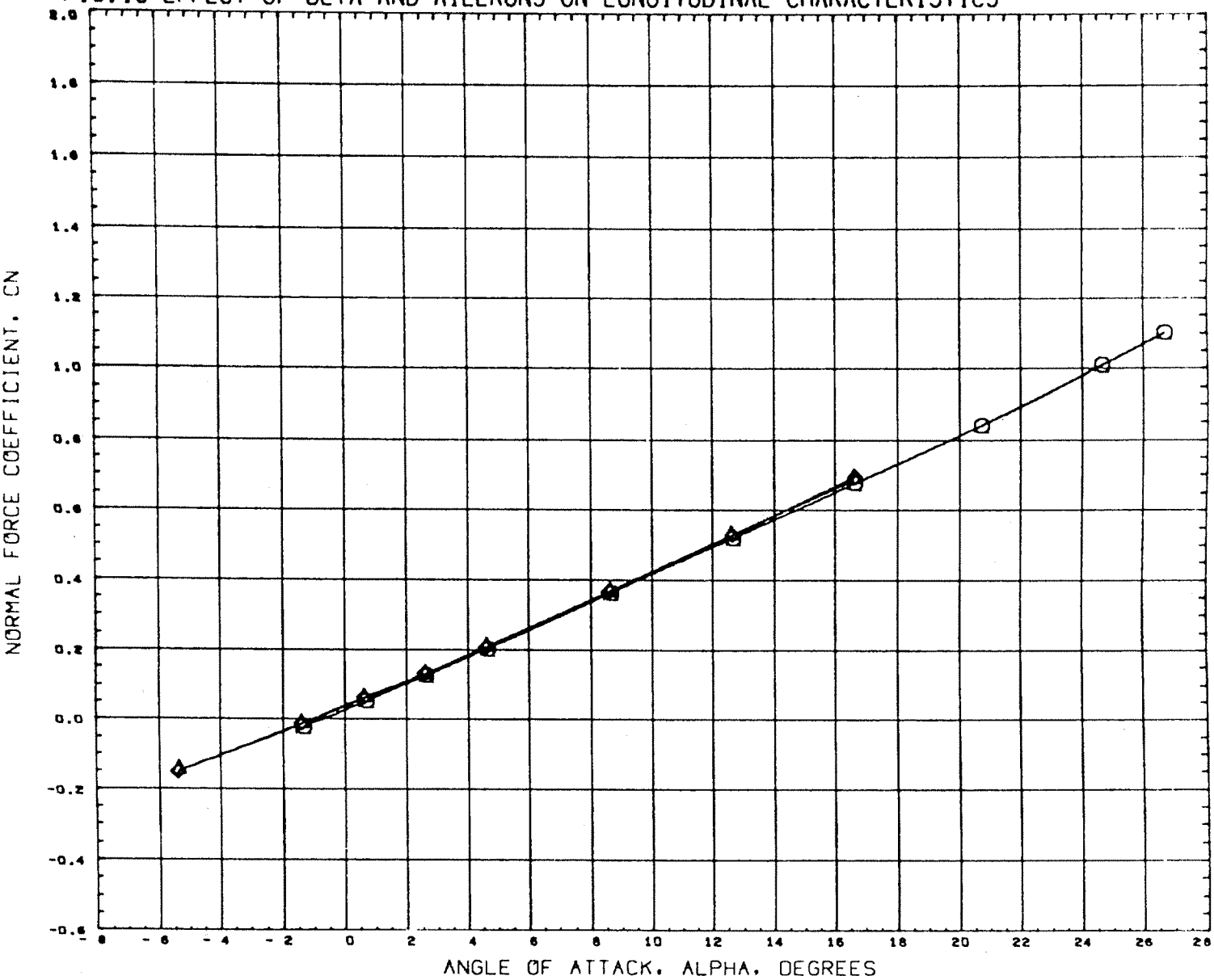
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C6W19V10R2
(CBA150)	△	AMES 66-563 B22C6W19V10R2
(CBA156)	◇	AMES 66-563 B22C6W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

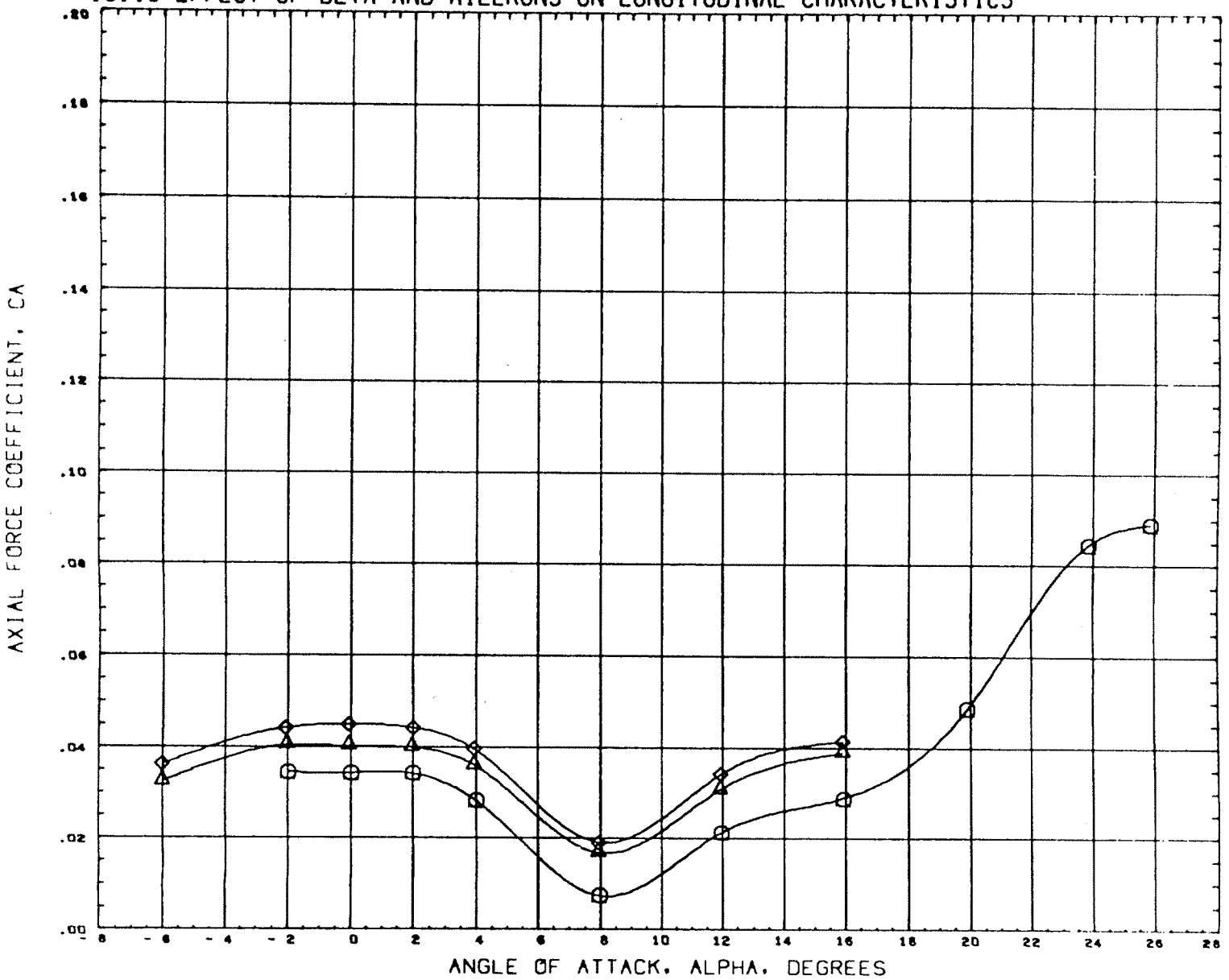


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



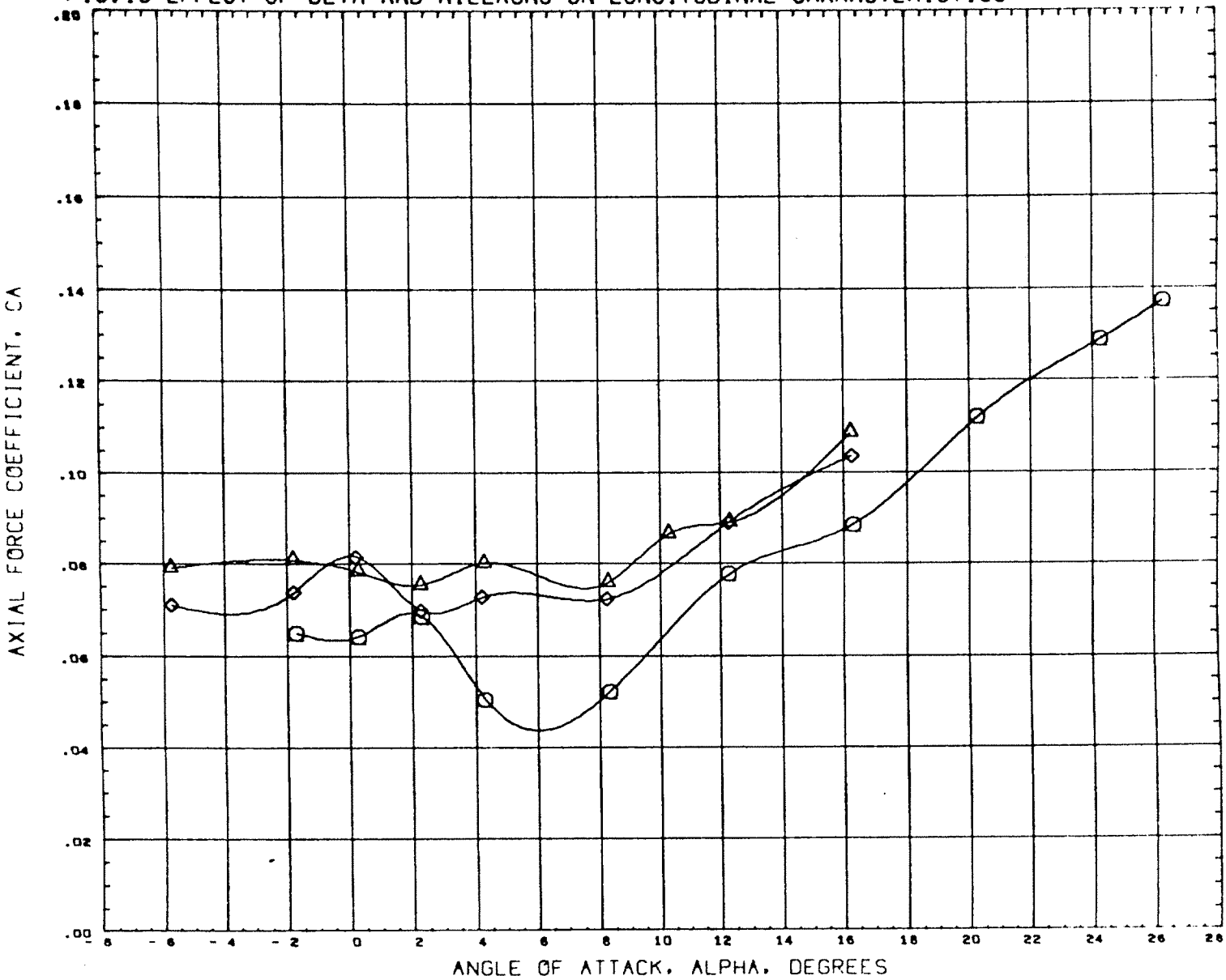
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

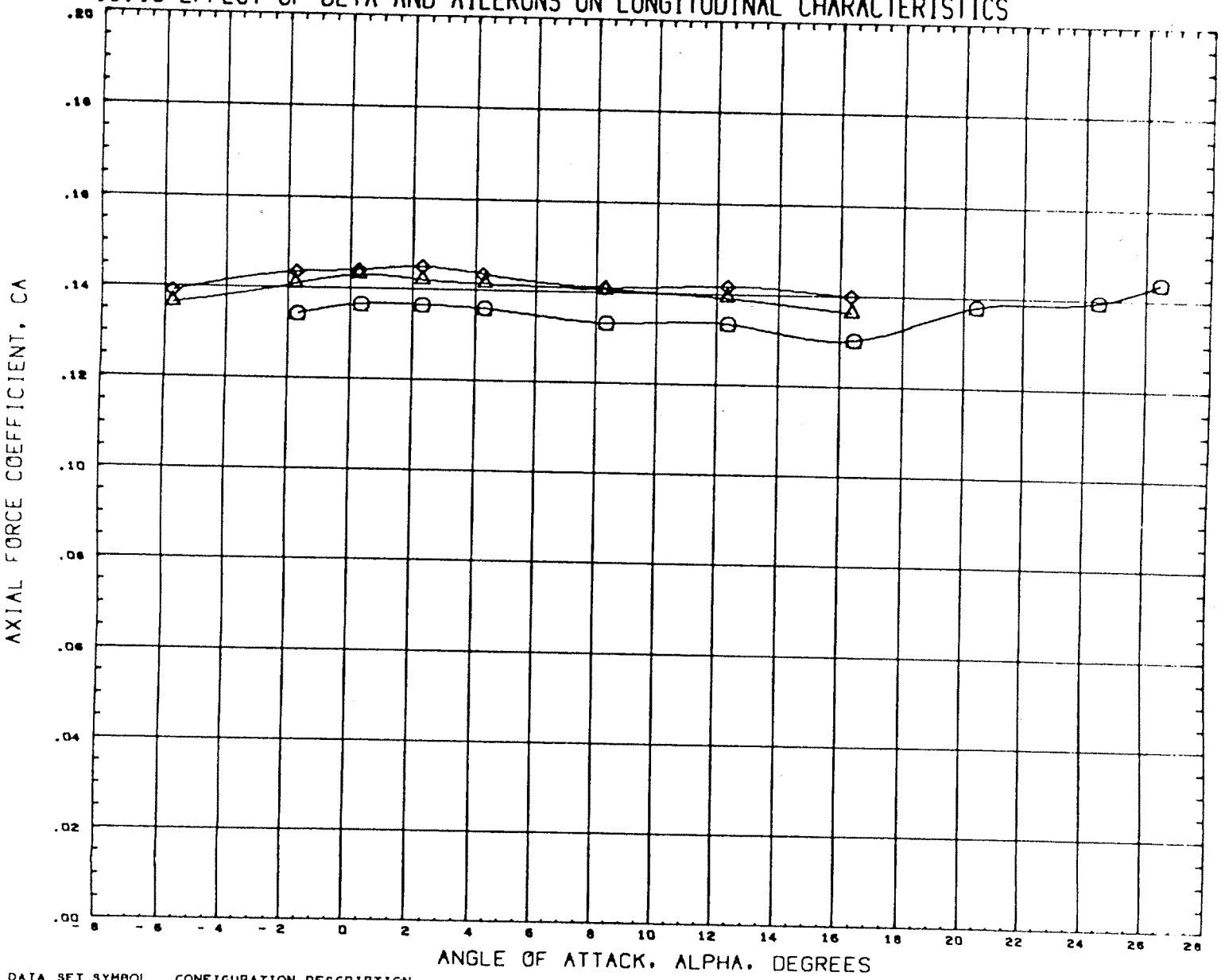


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



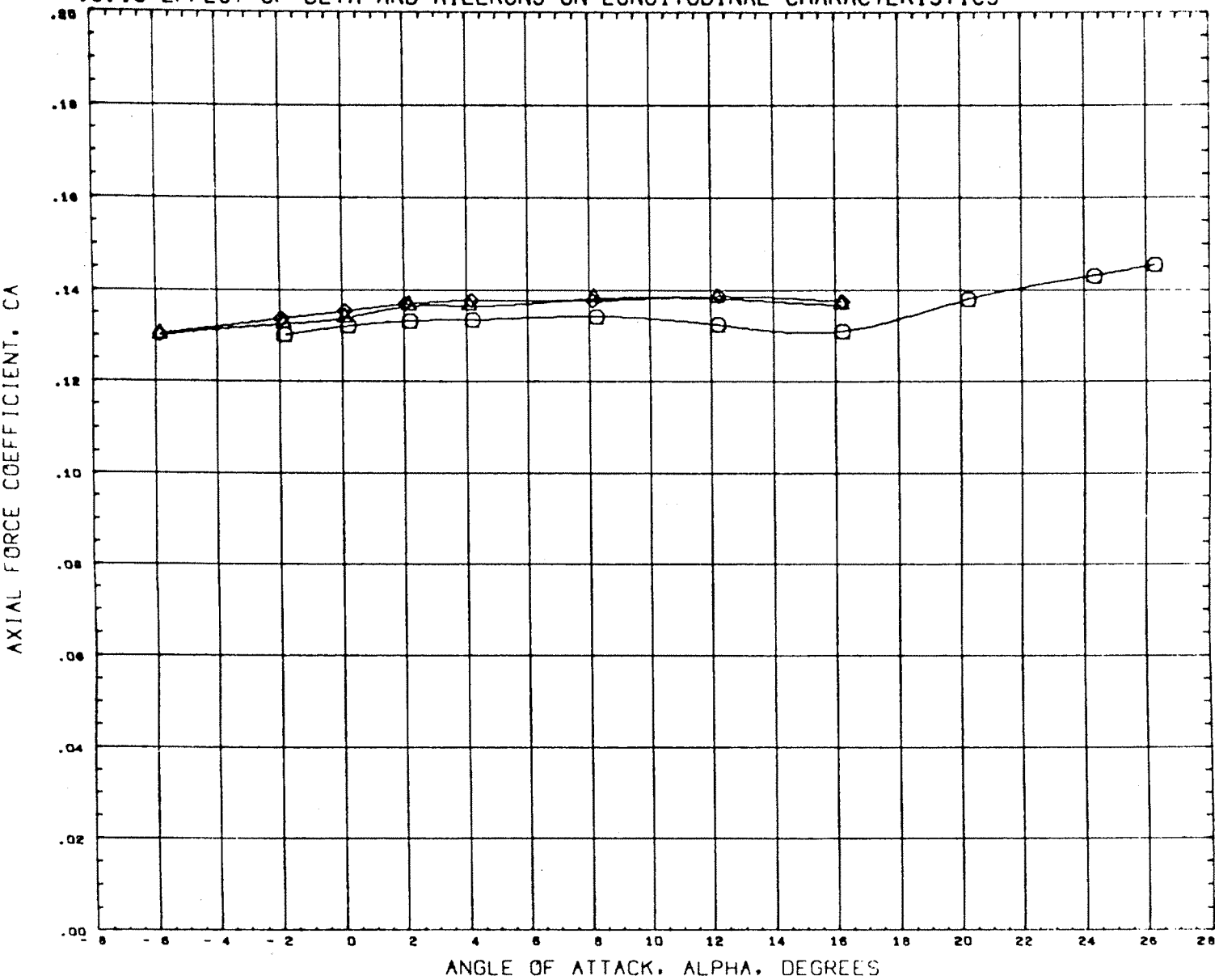
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

MACH 1.204

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

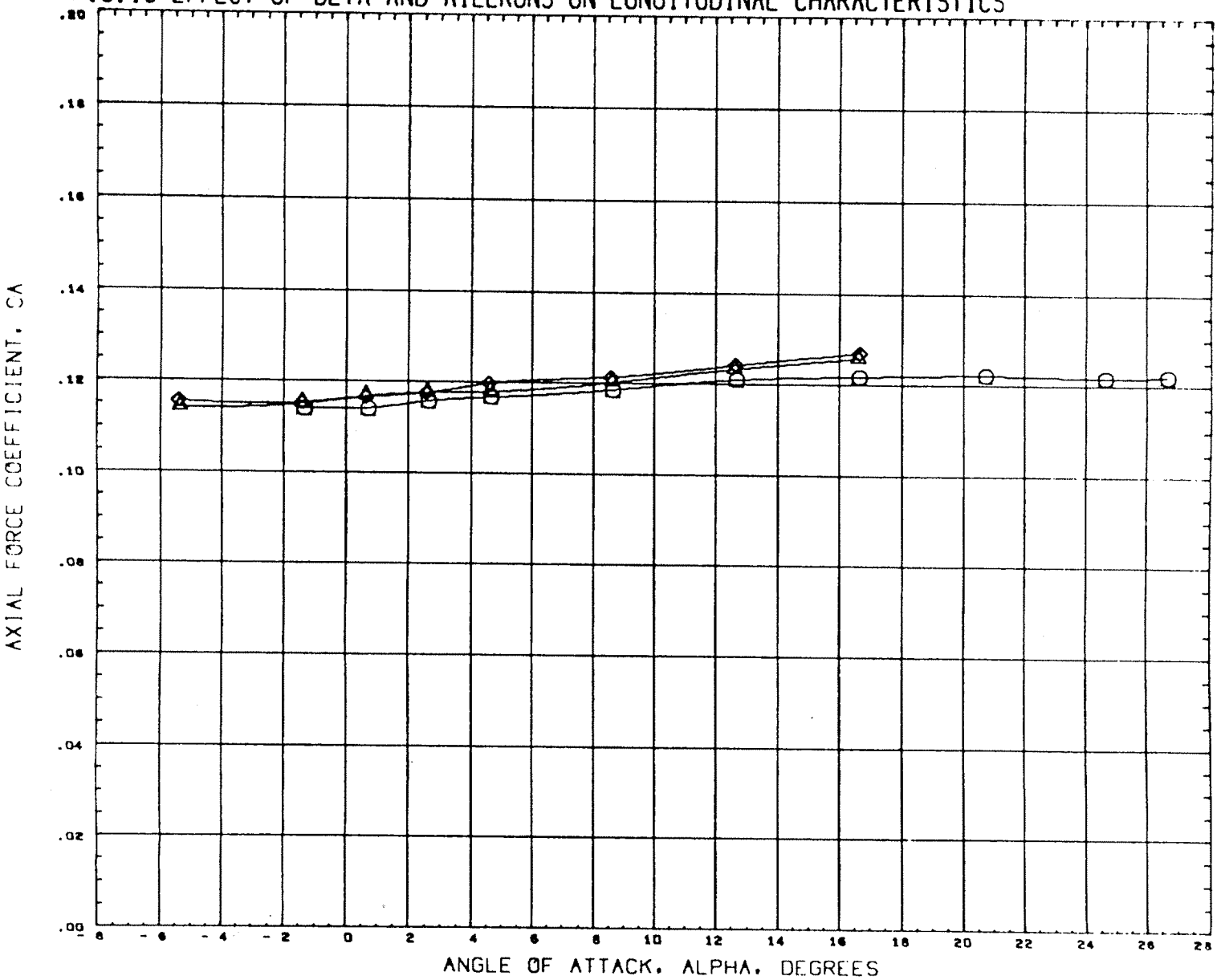


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



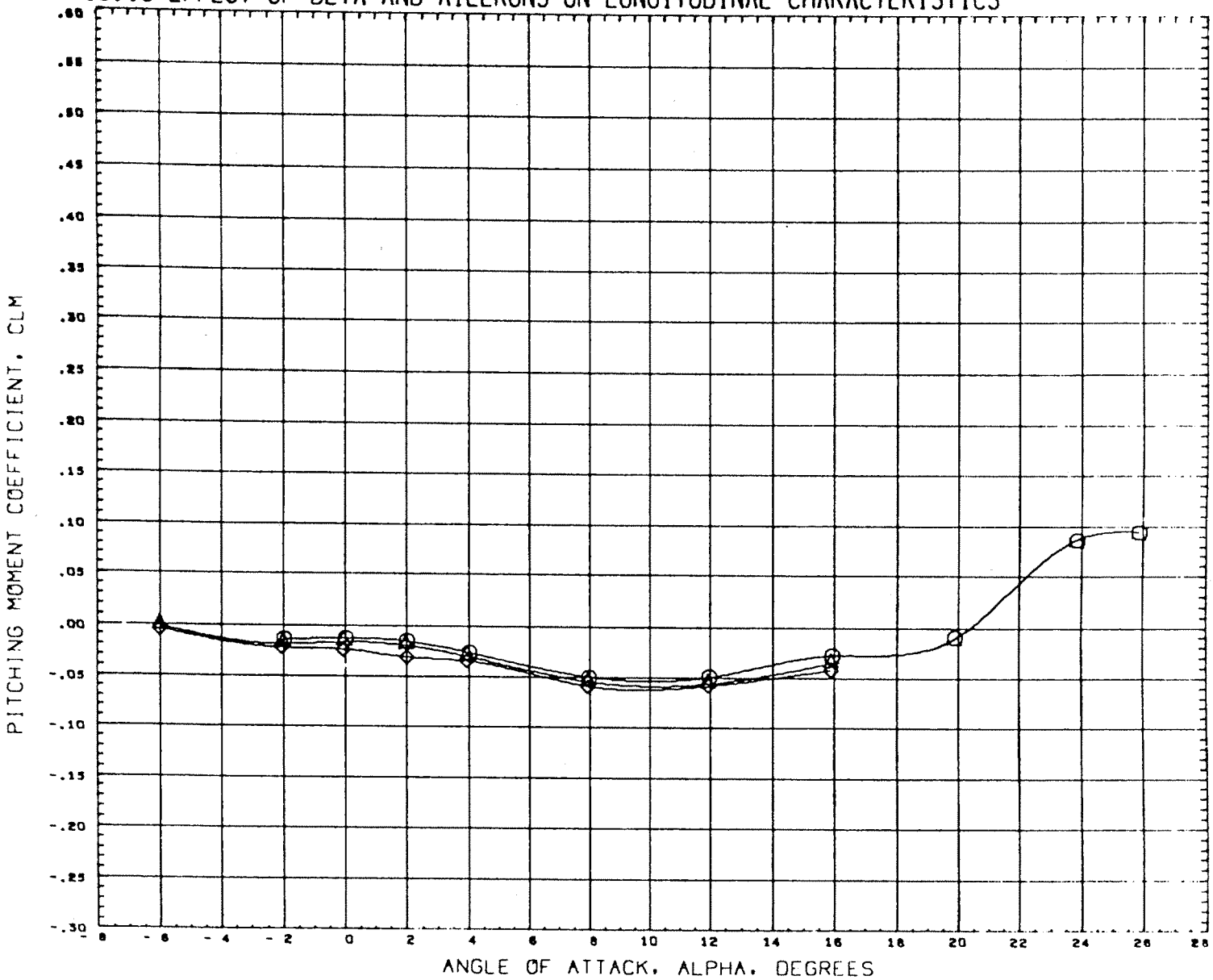
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



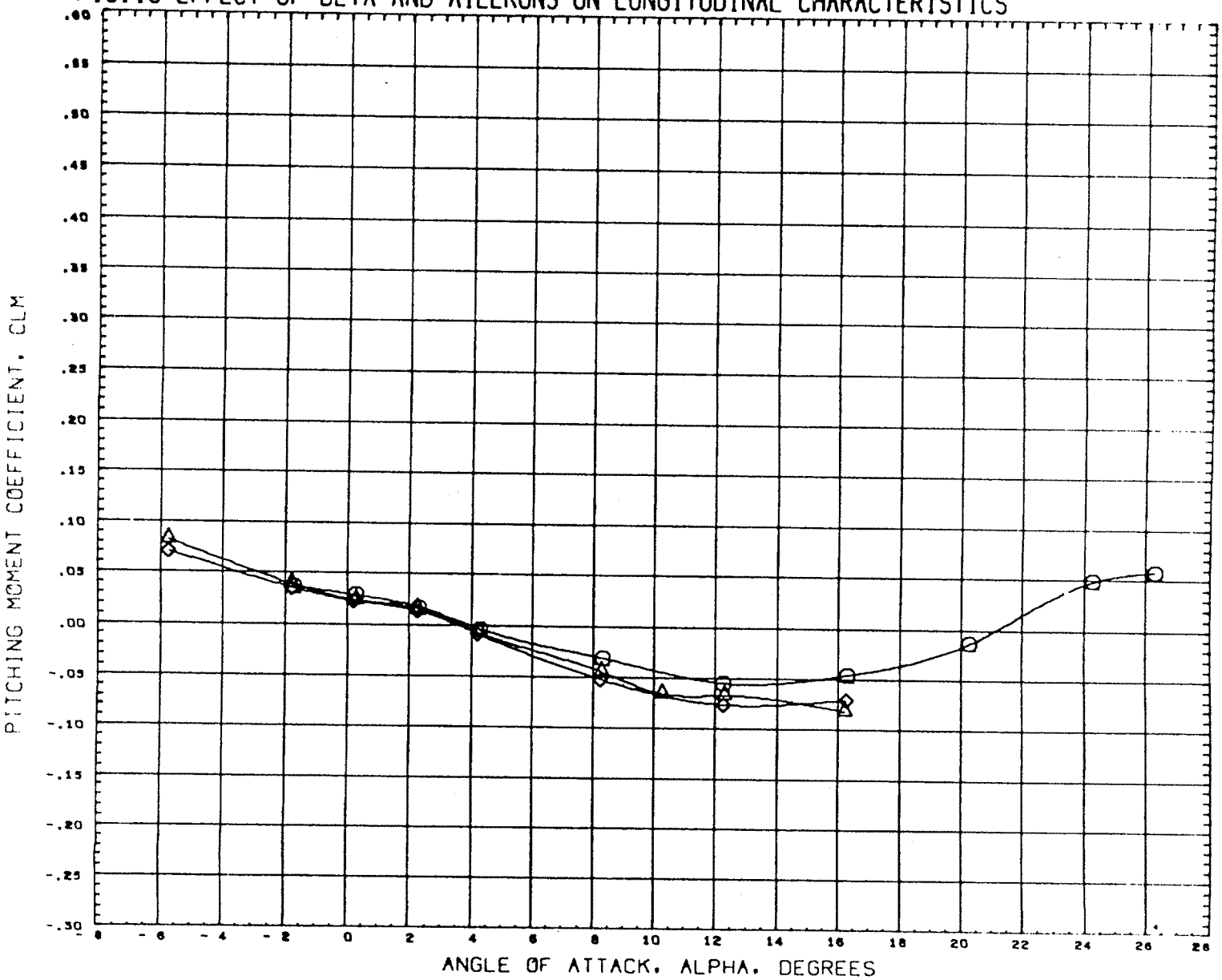
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



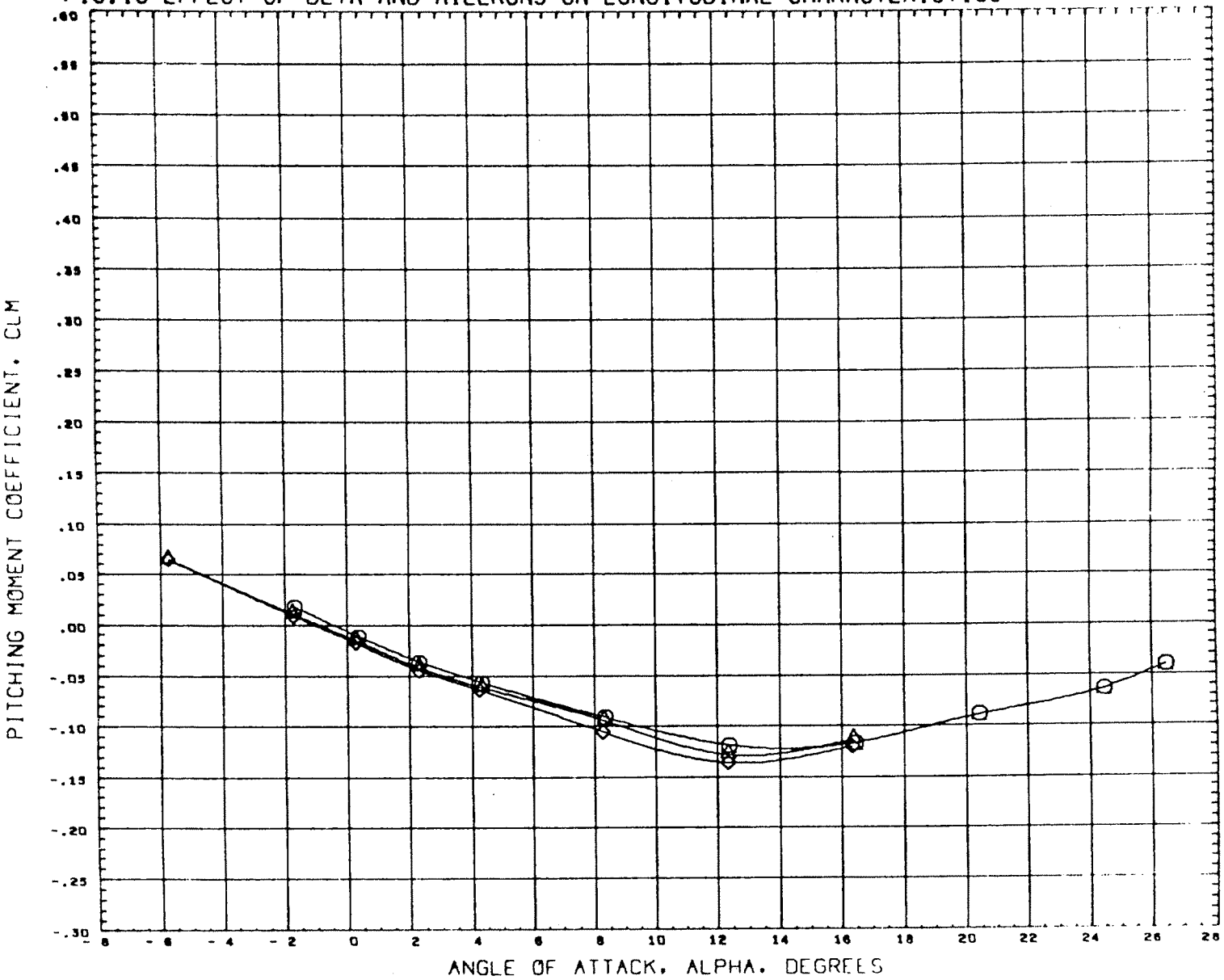
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

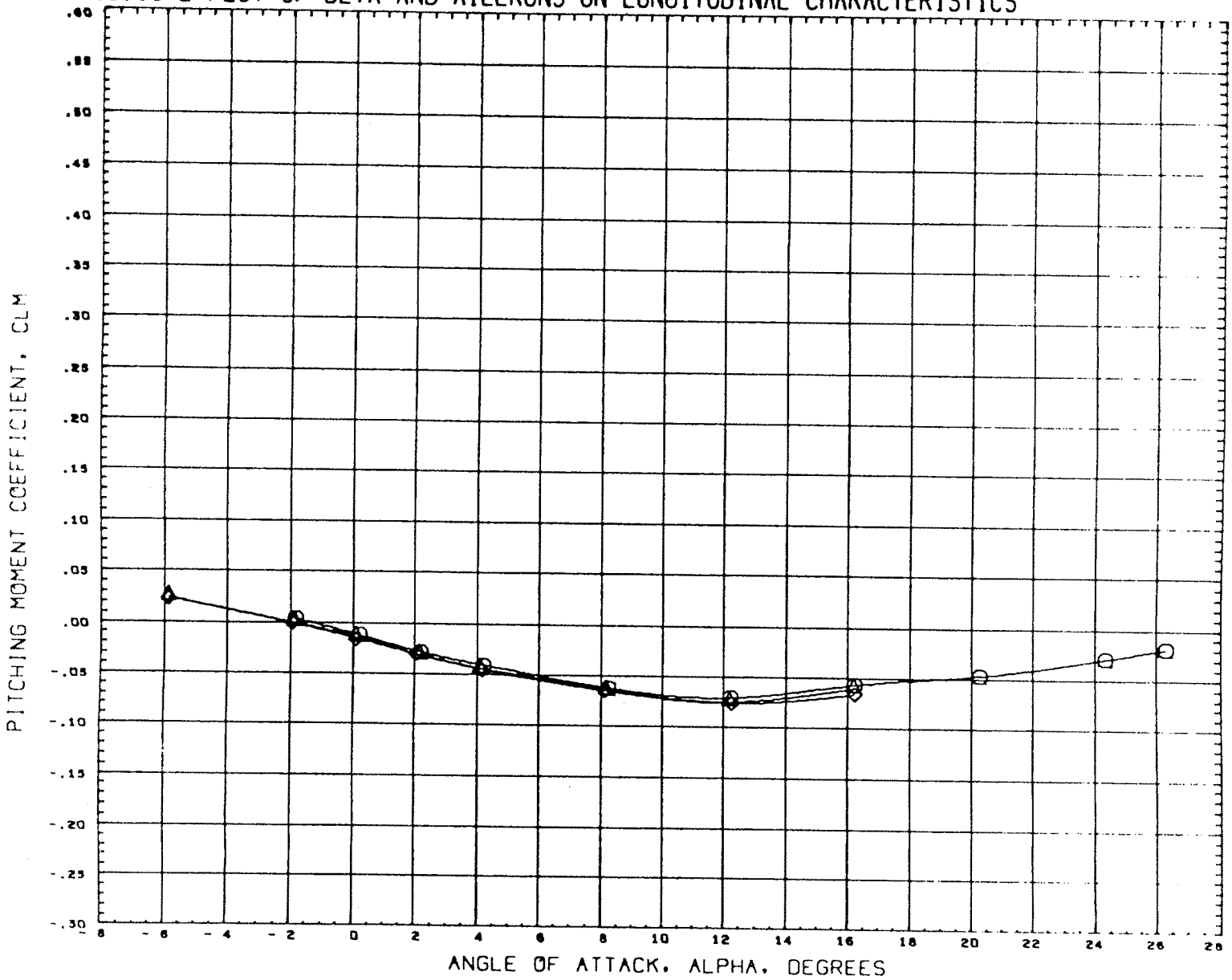


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

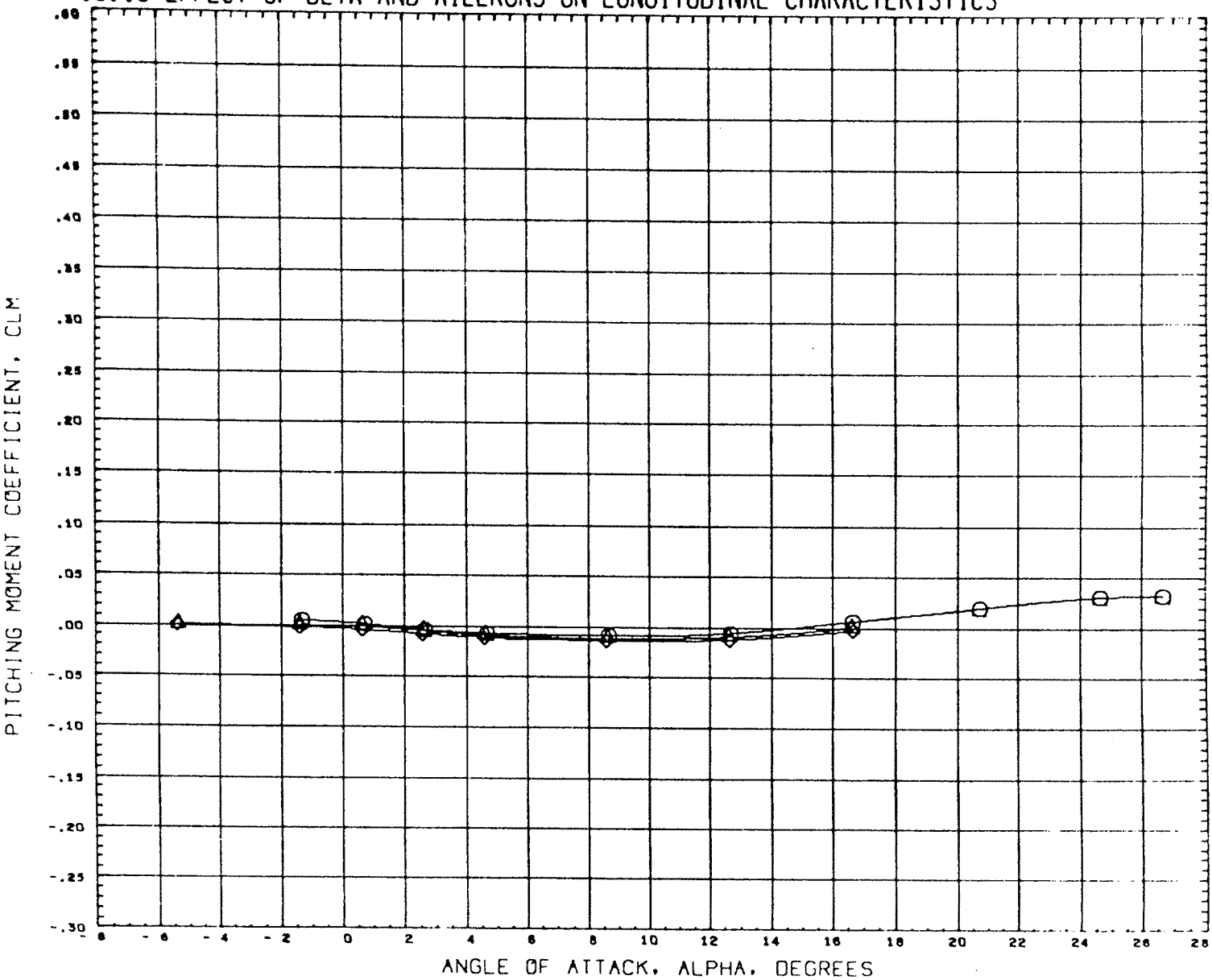
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



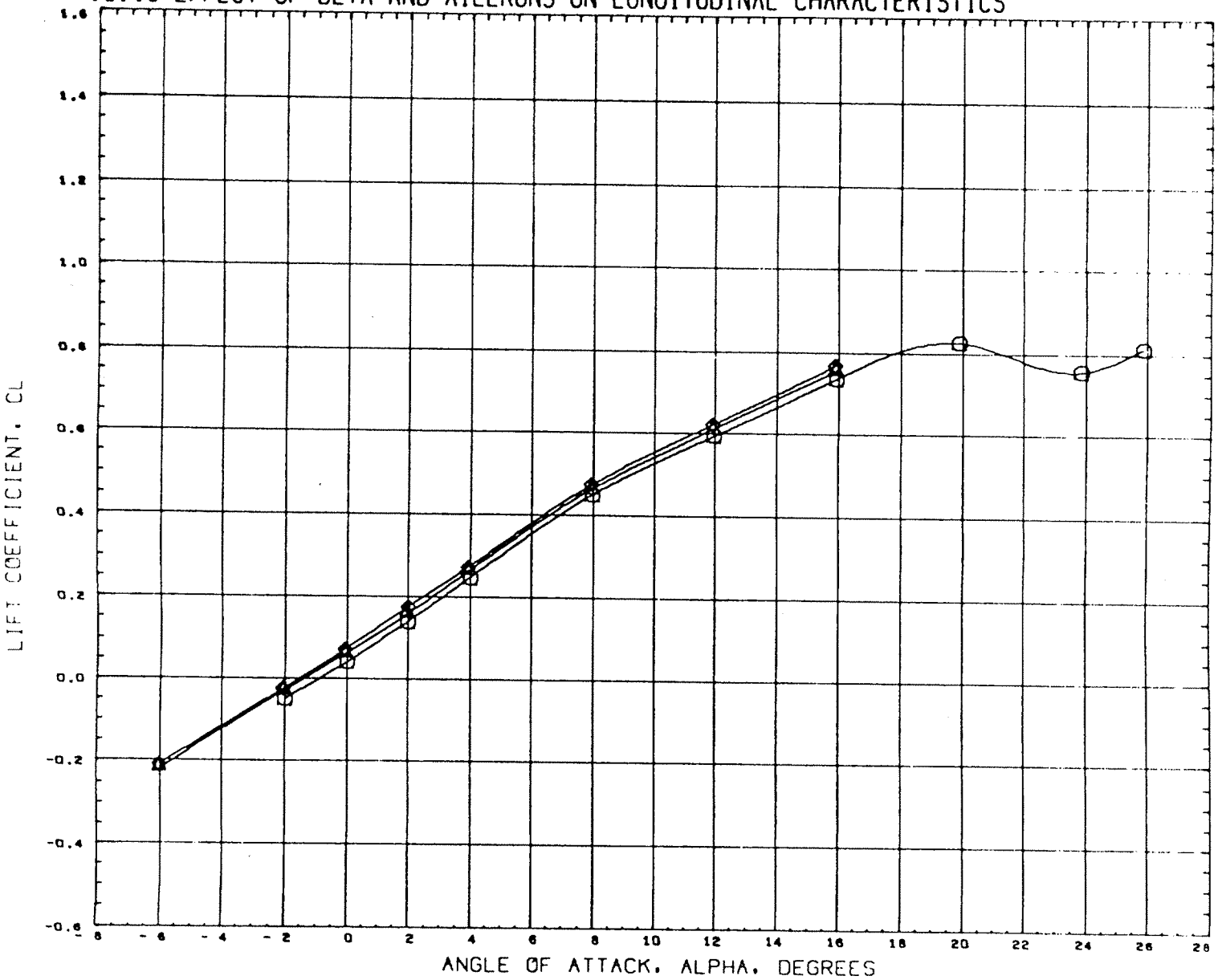
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



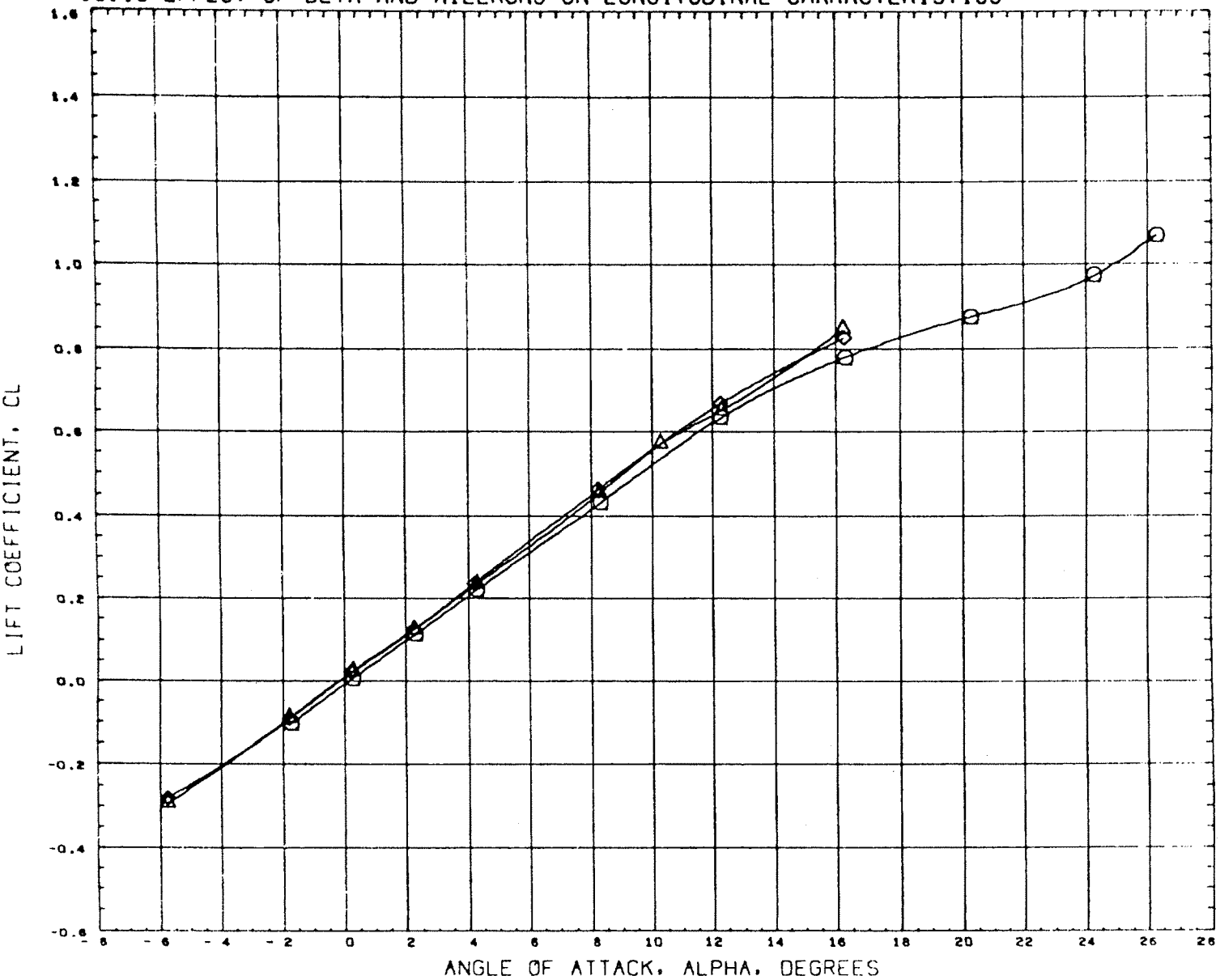
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

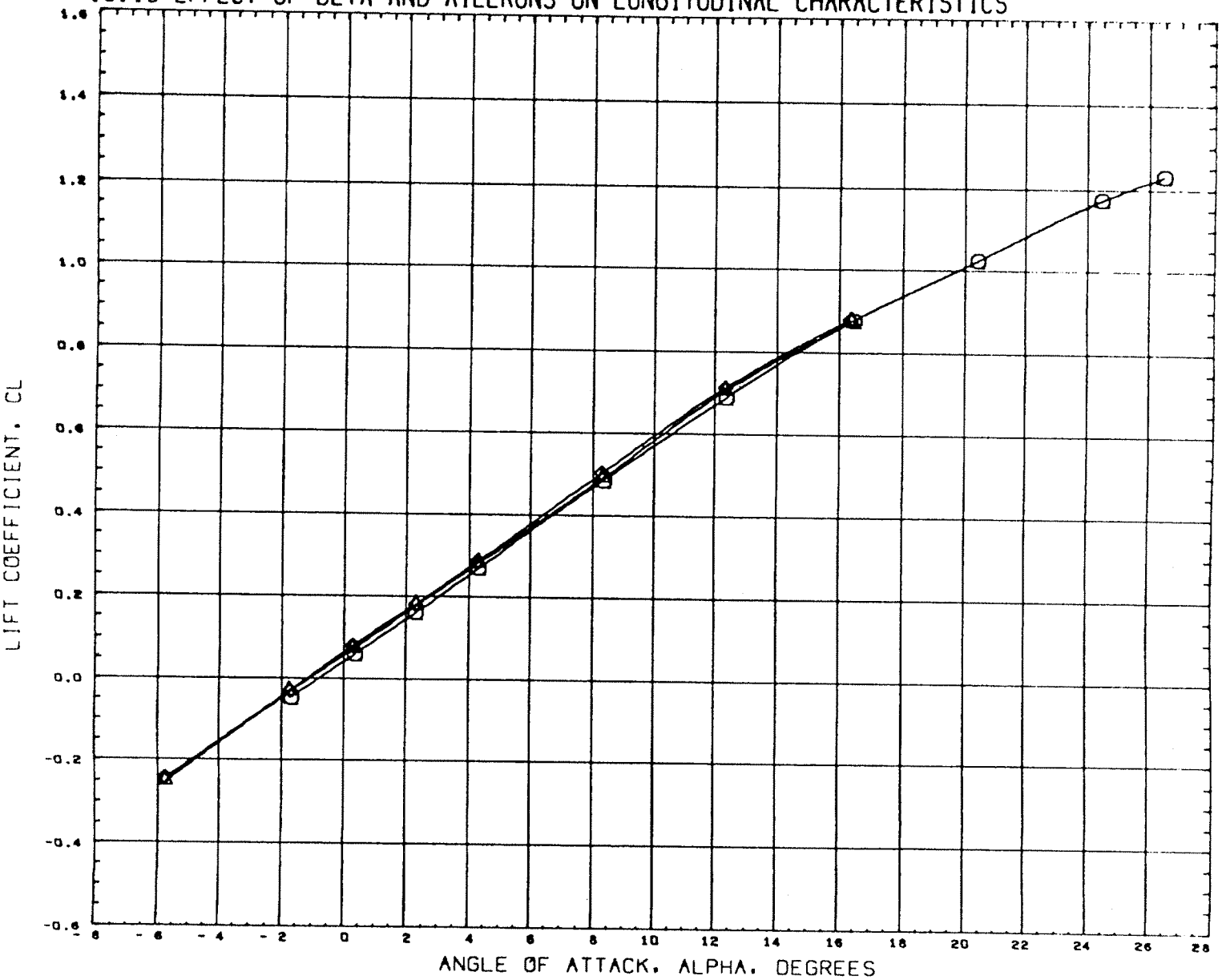


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA25Q)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA15Q)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA15R)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



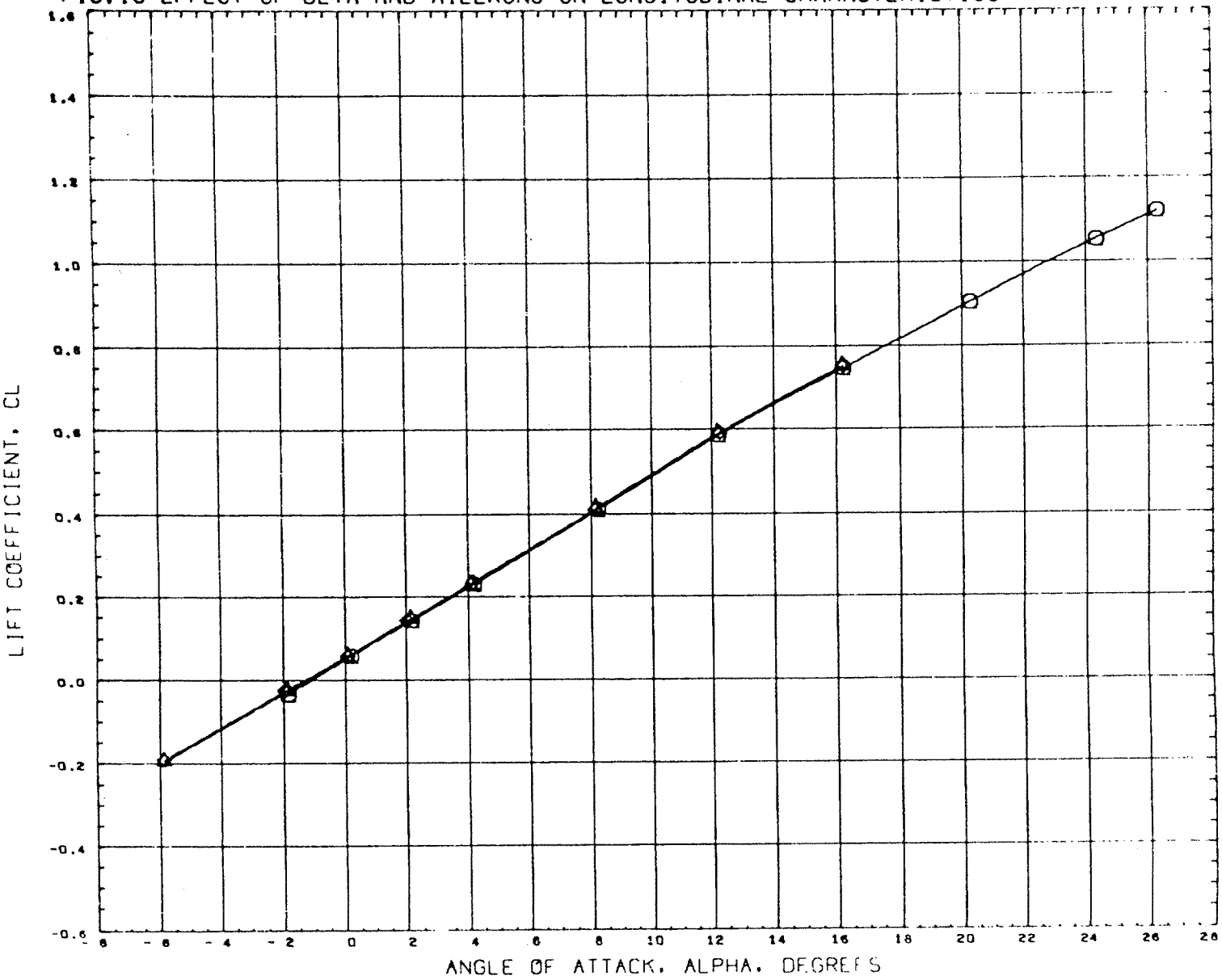
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



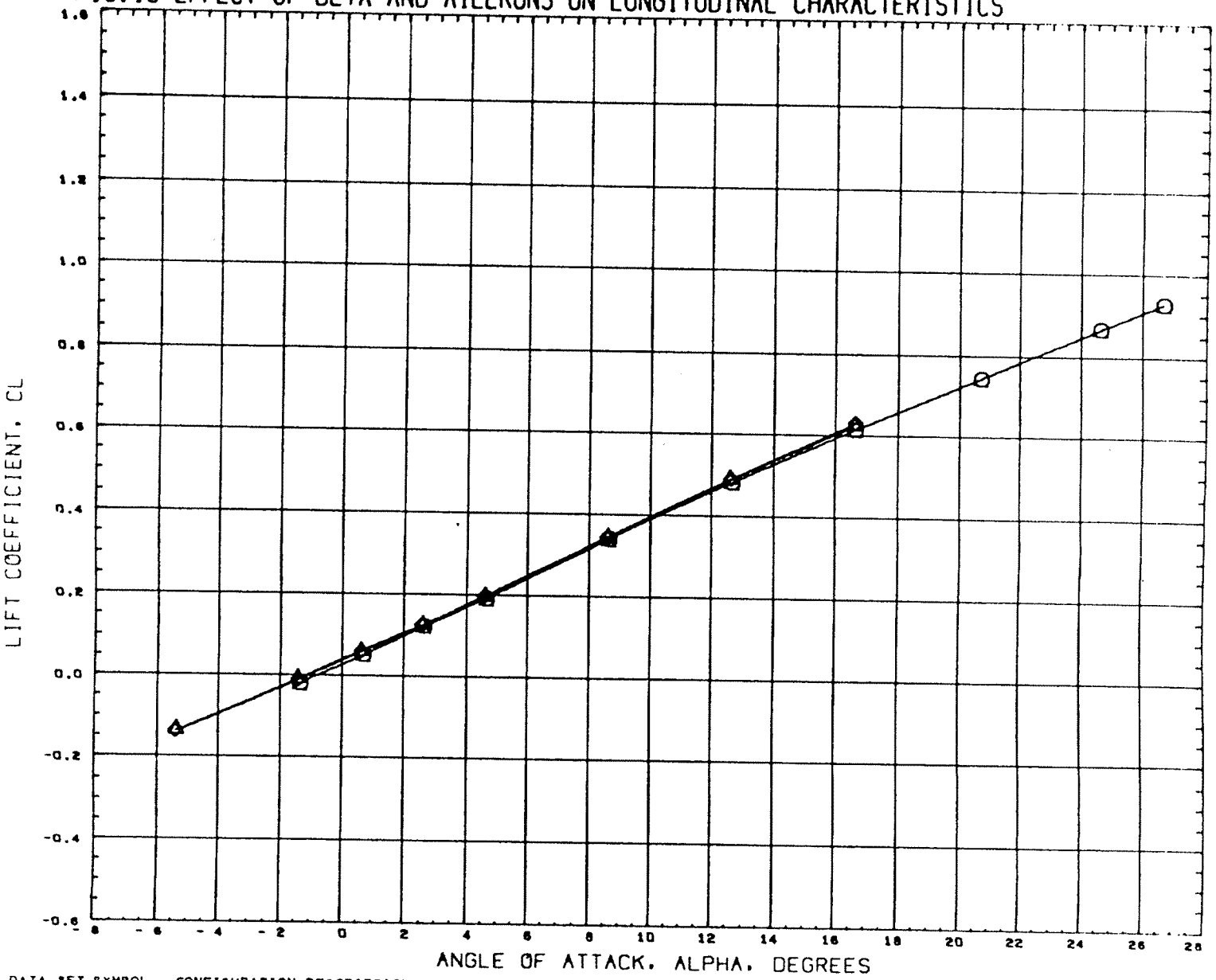
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



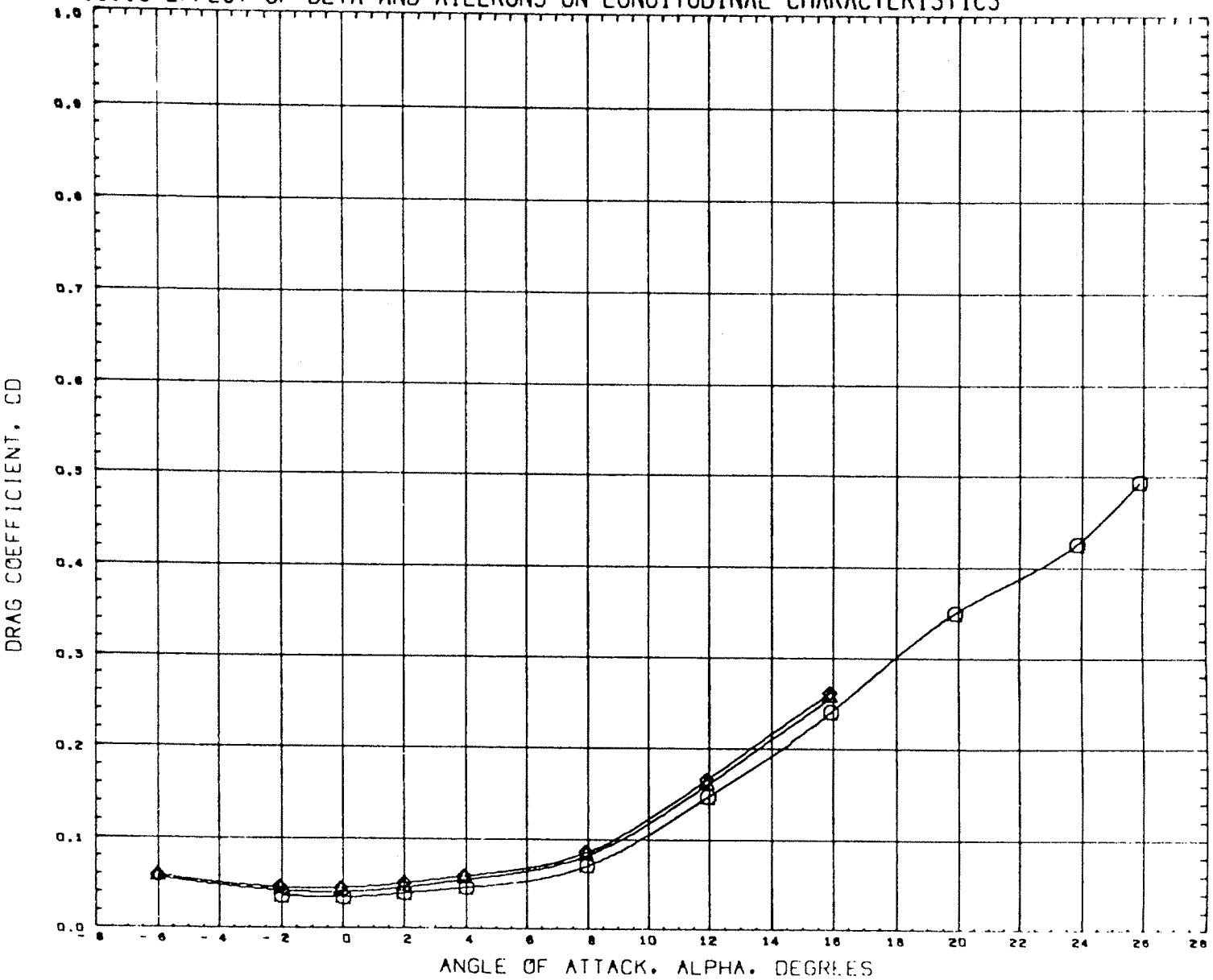
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



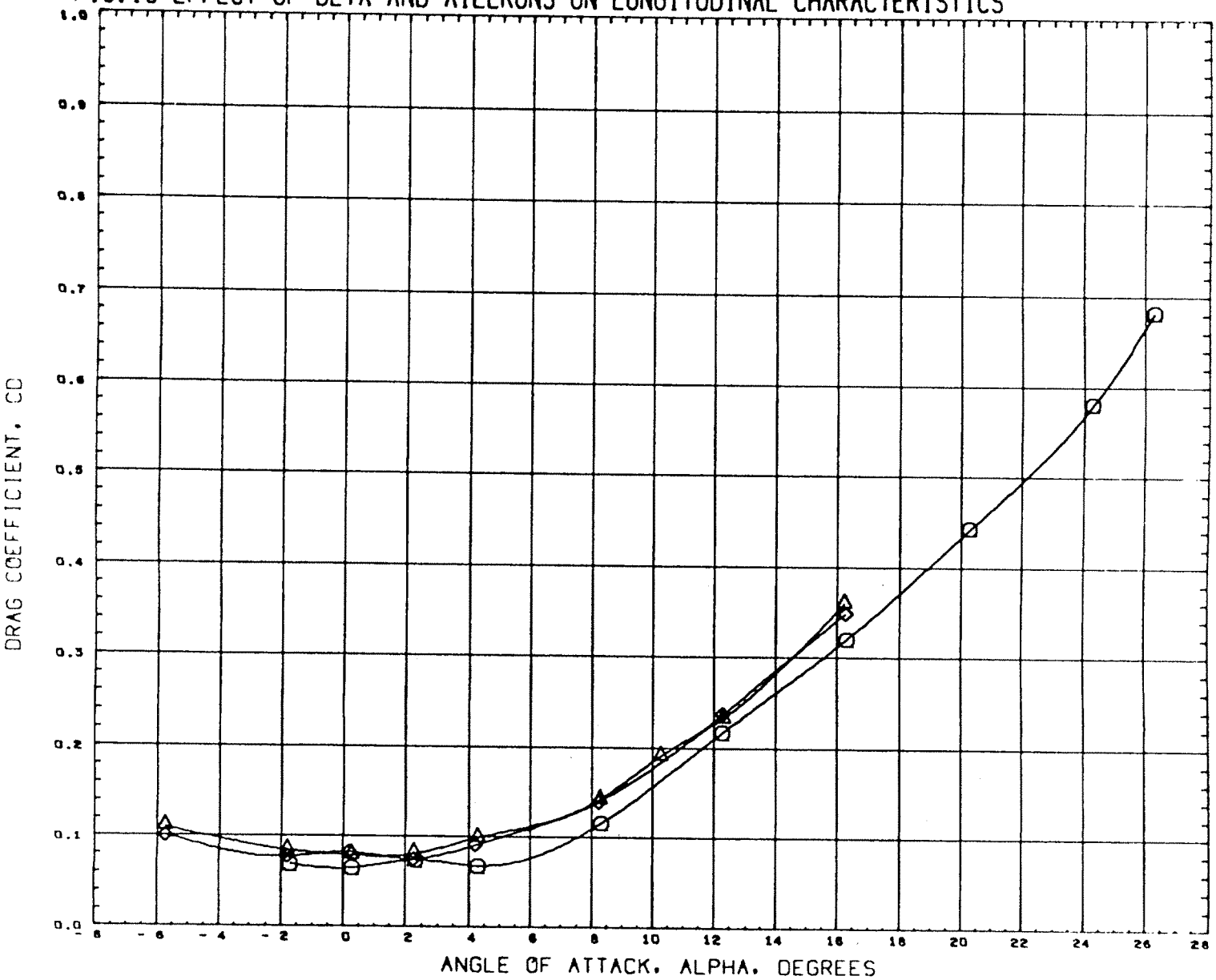
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	TC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



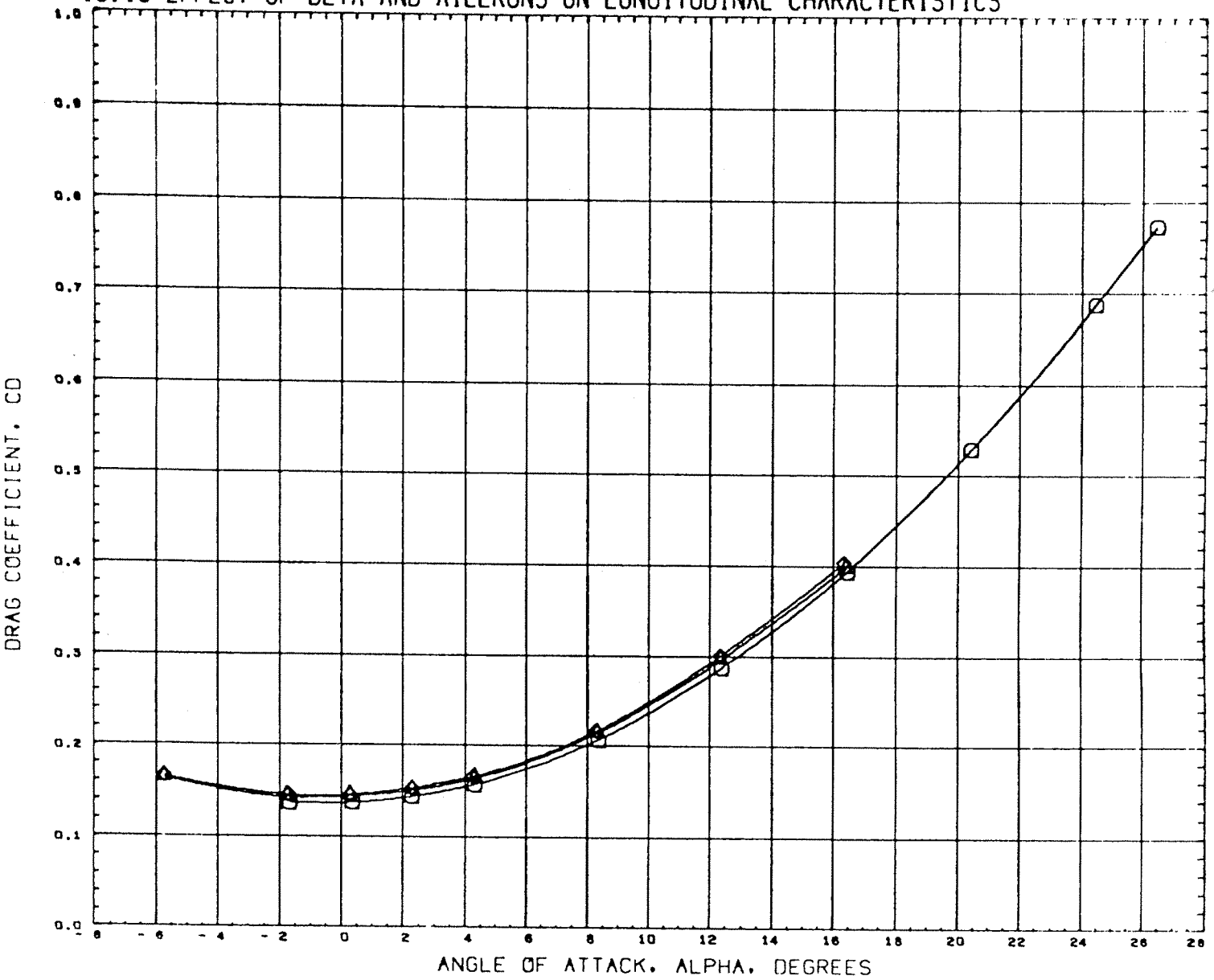
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



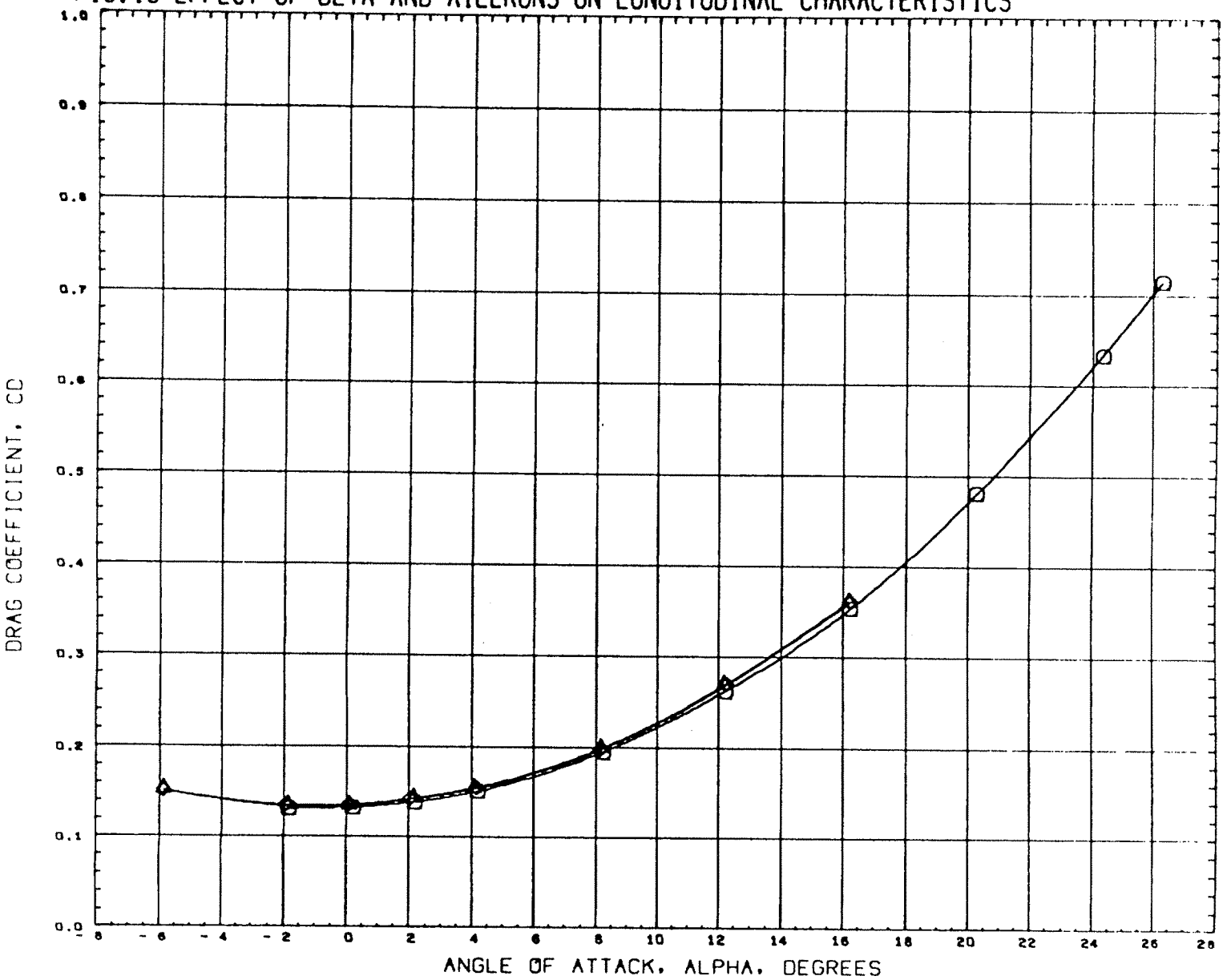
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



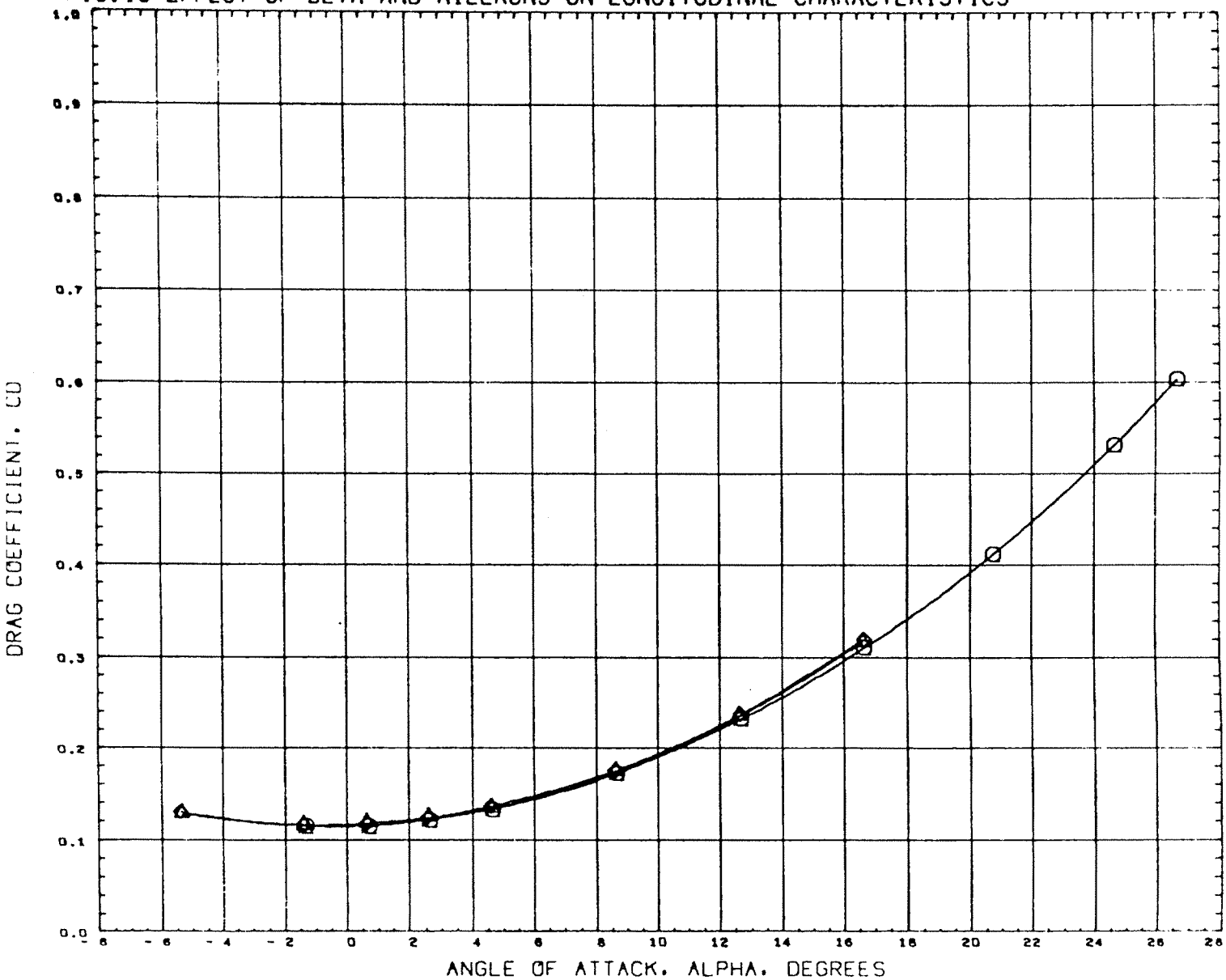
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA25D)	○	AMES 66-563 B22C8W19V10R2
(CBA15D)	△	AMES 66-563 B22C8W19V10R2
(CBA15S)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

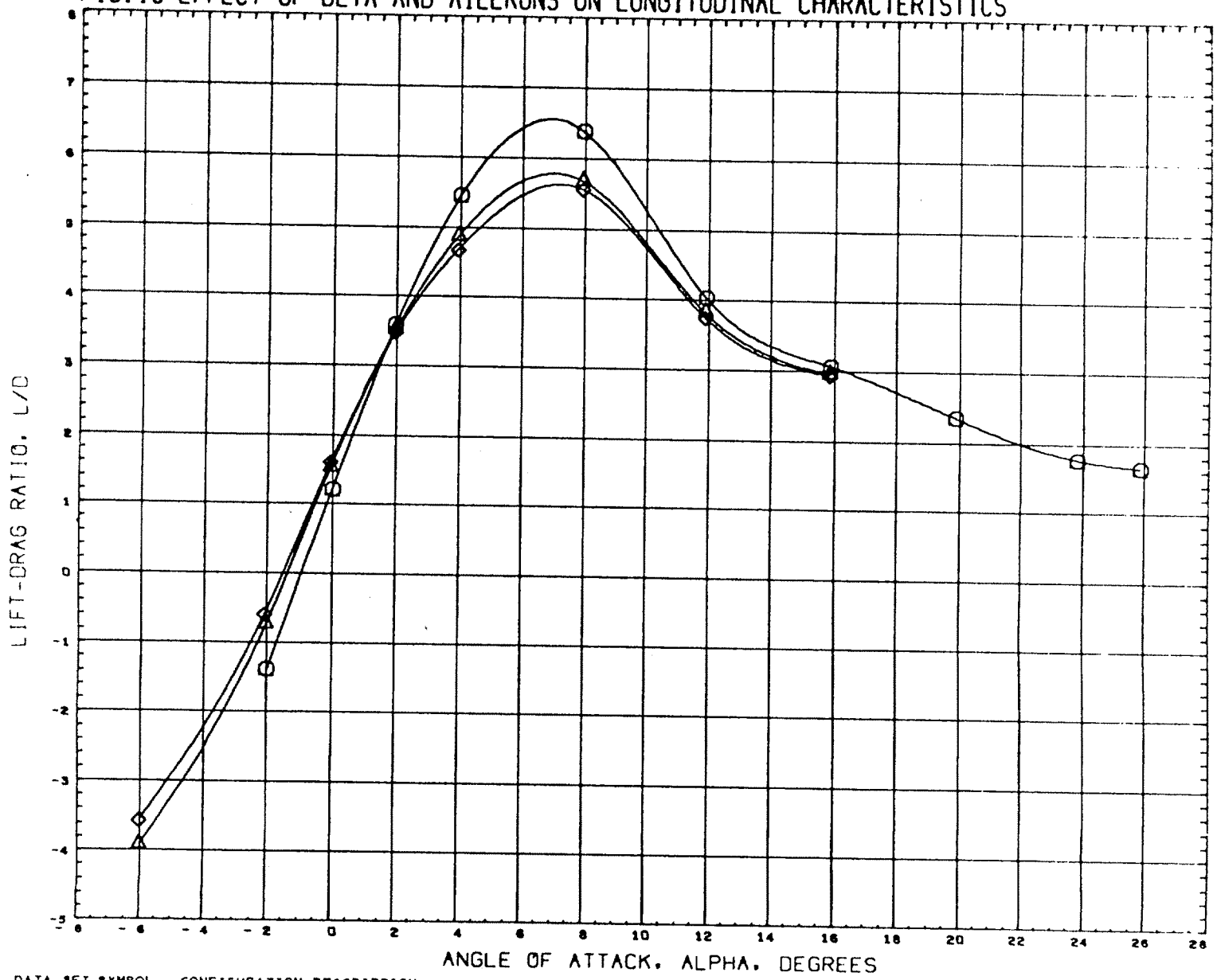


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA25D)	○	AMES 66-563 B22C8W19V10R2
(CBA15D)	△	AMES 66-563 B22C8W19V10R2
(CBA15B)	◇	AMES 66-563 B22C8W19V10R2

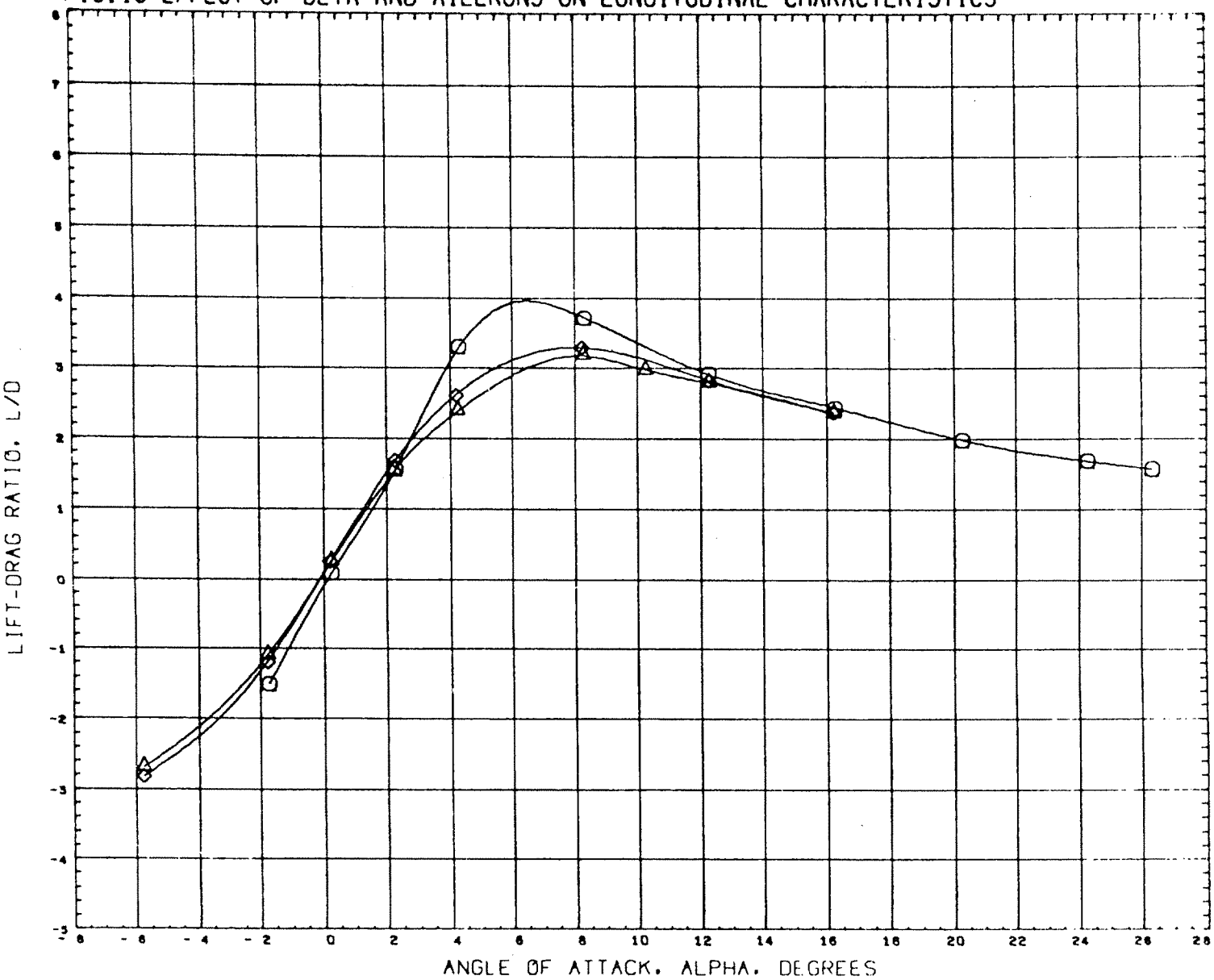
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

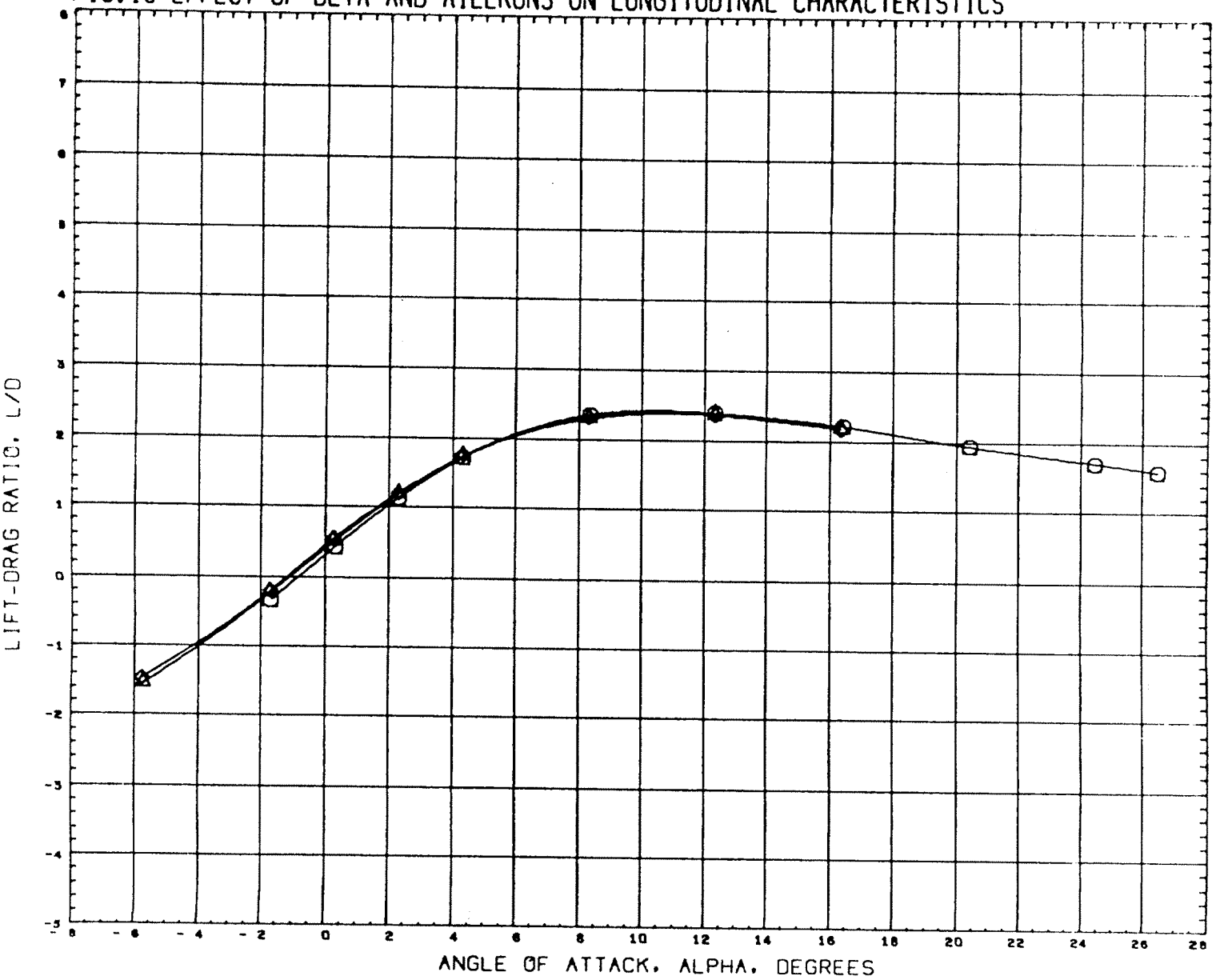


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



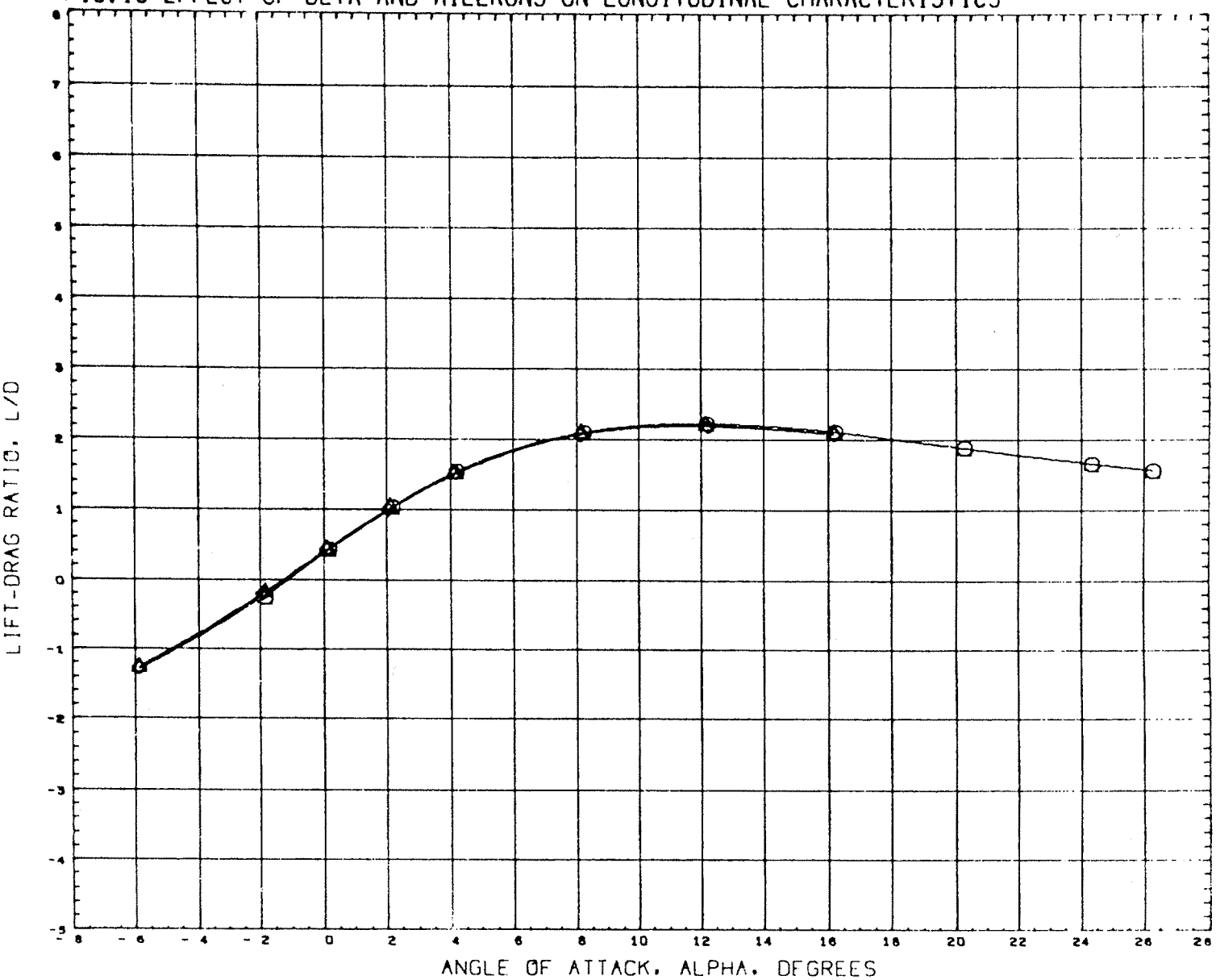
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

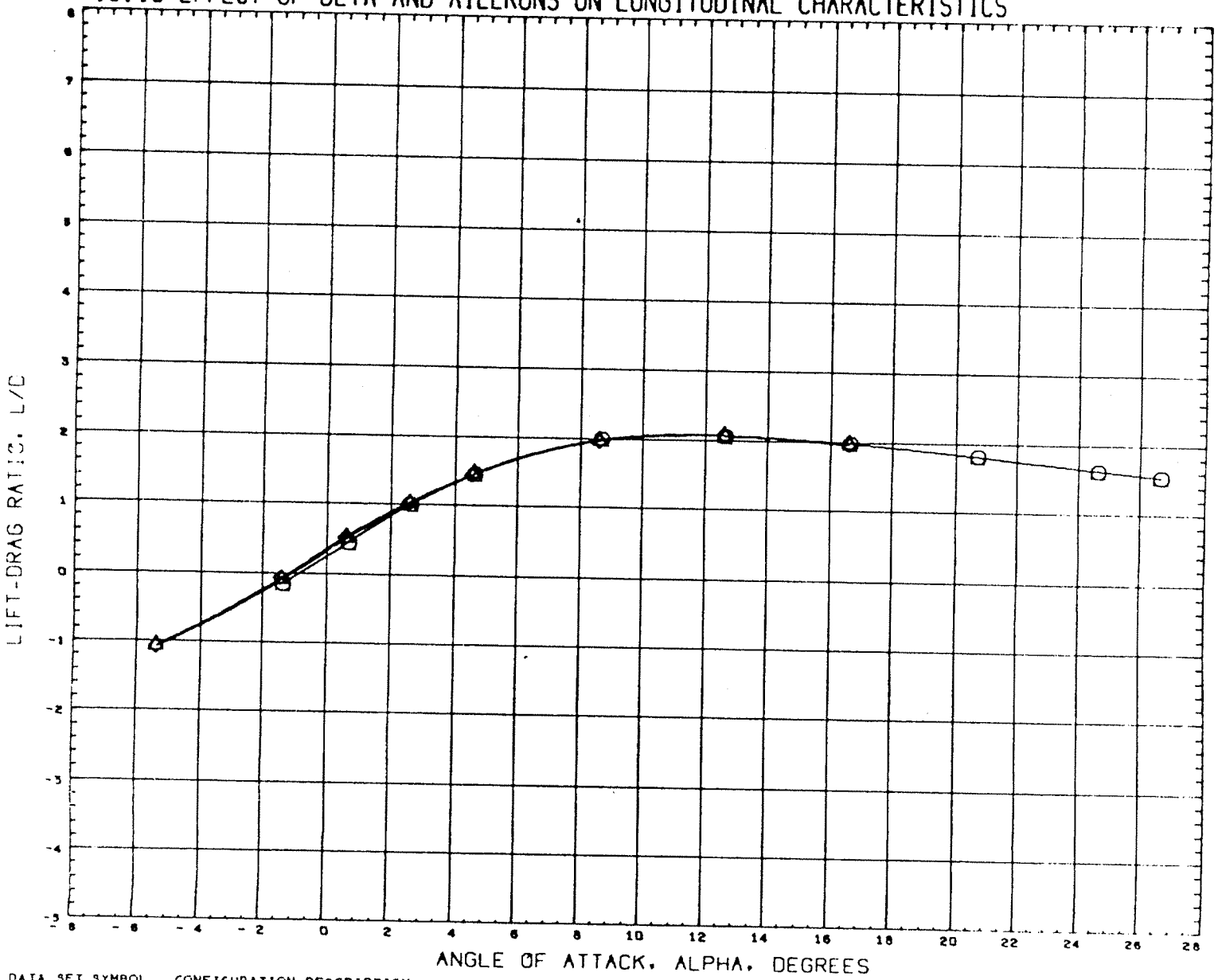


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	TC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

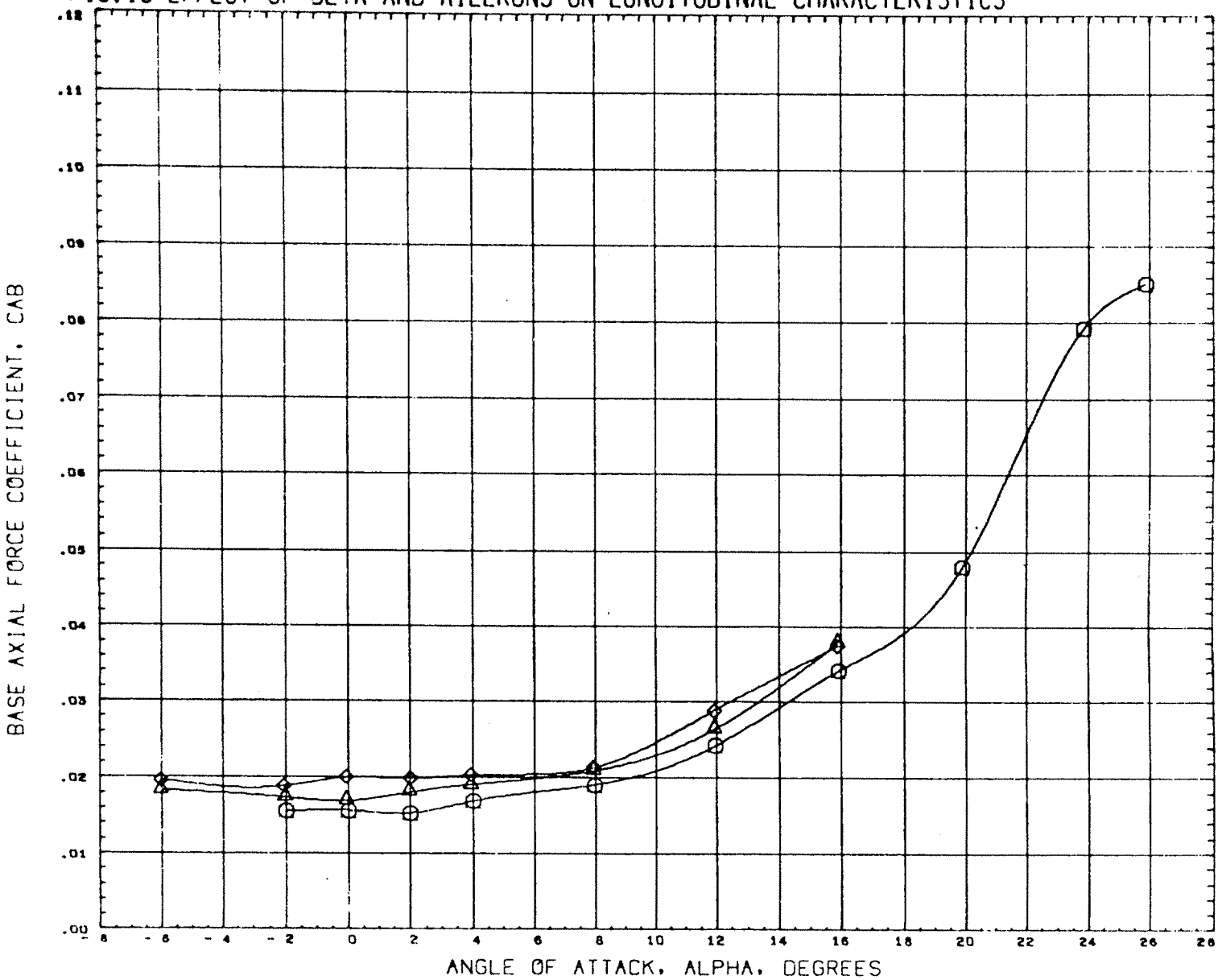
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



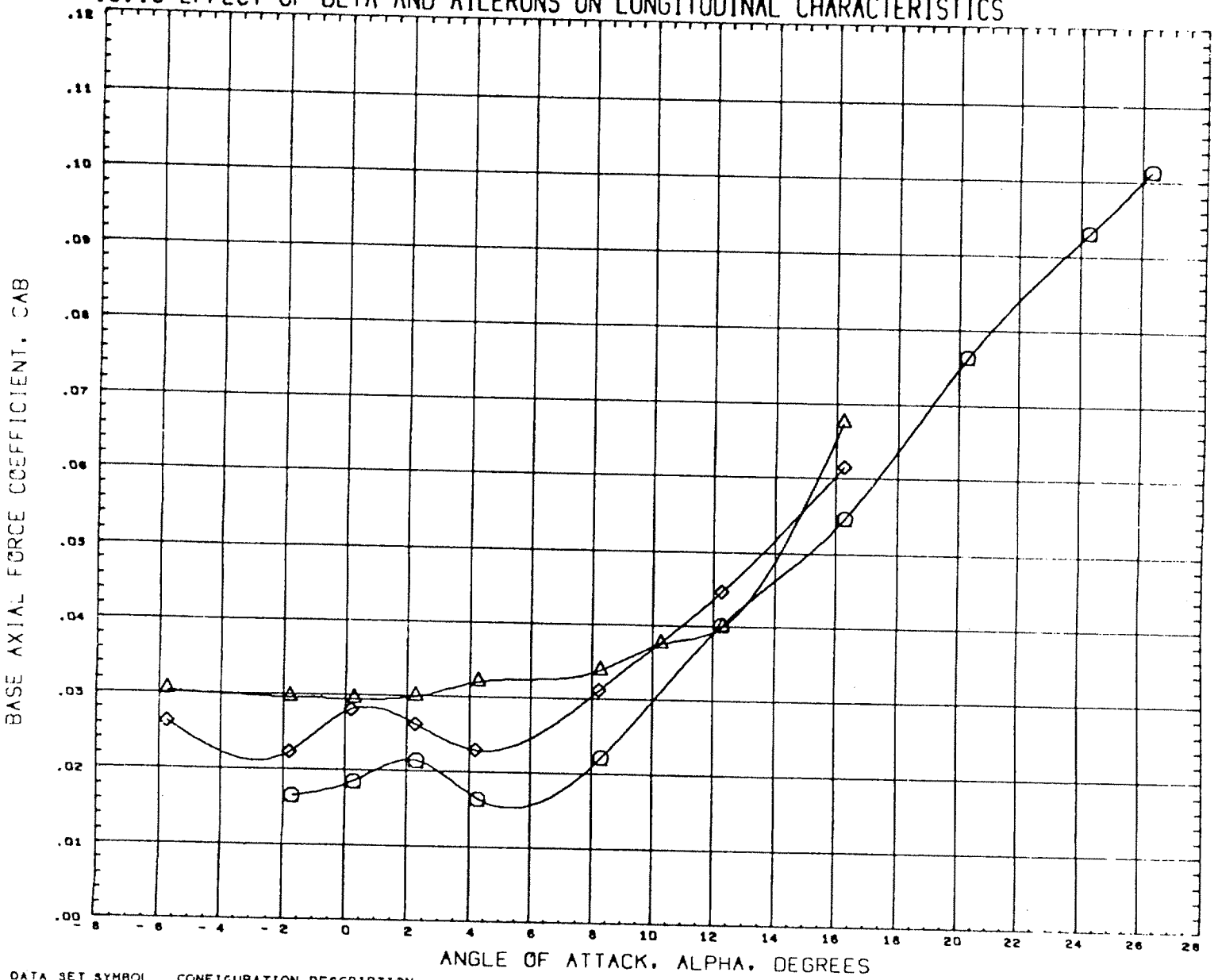
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA130)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

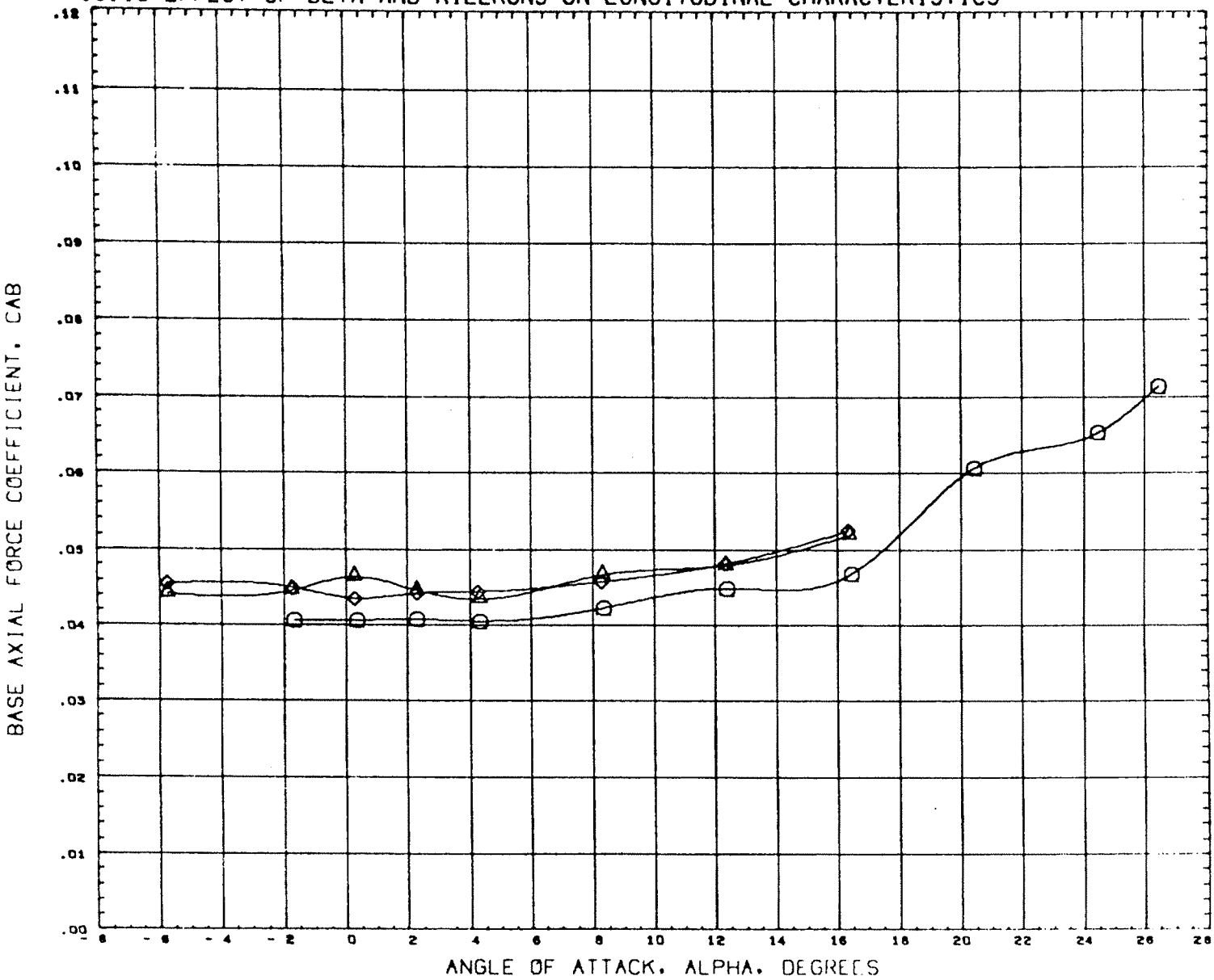
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

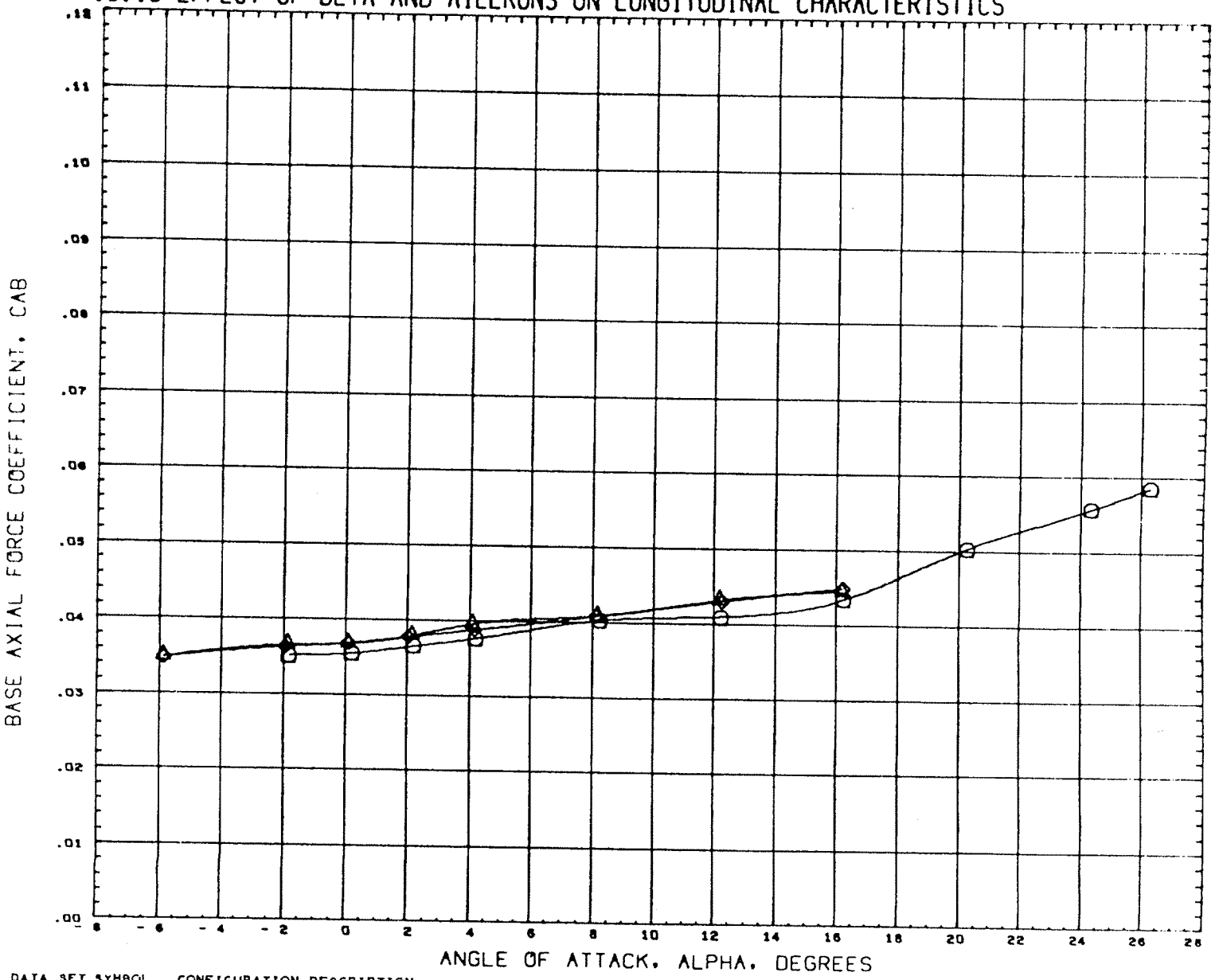


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

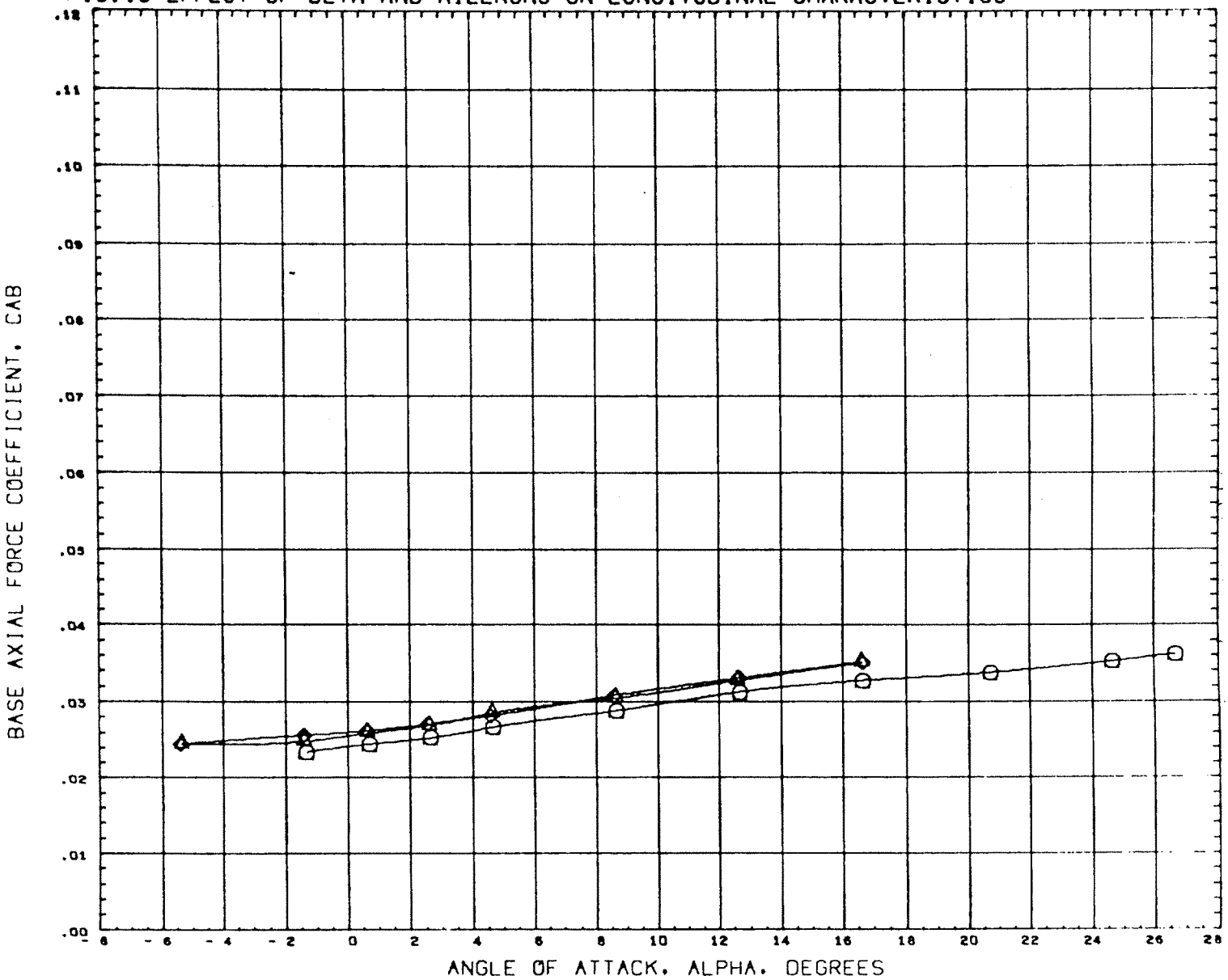
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

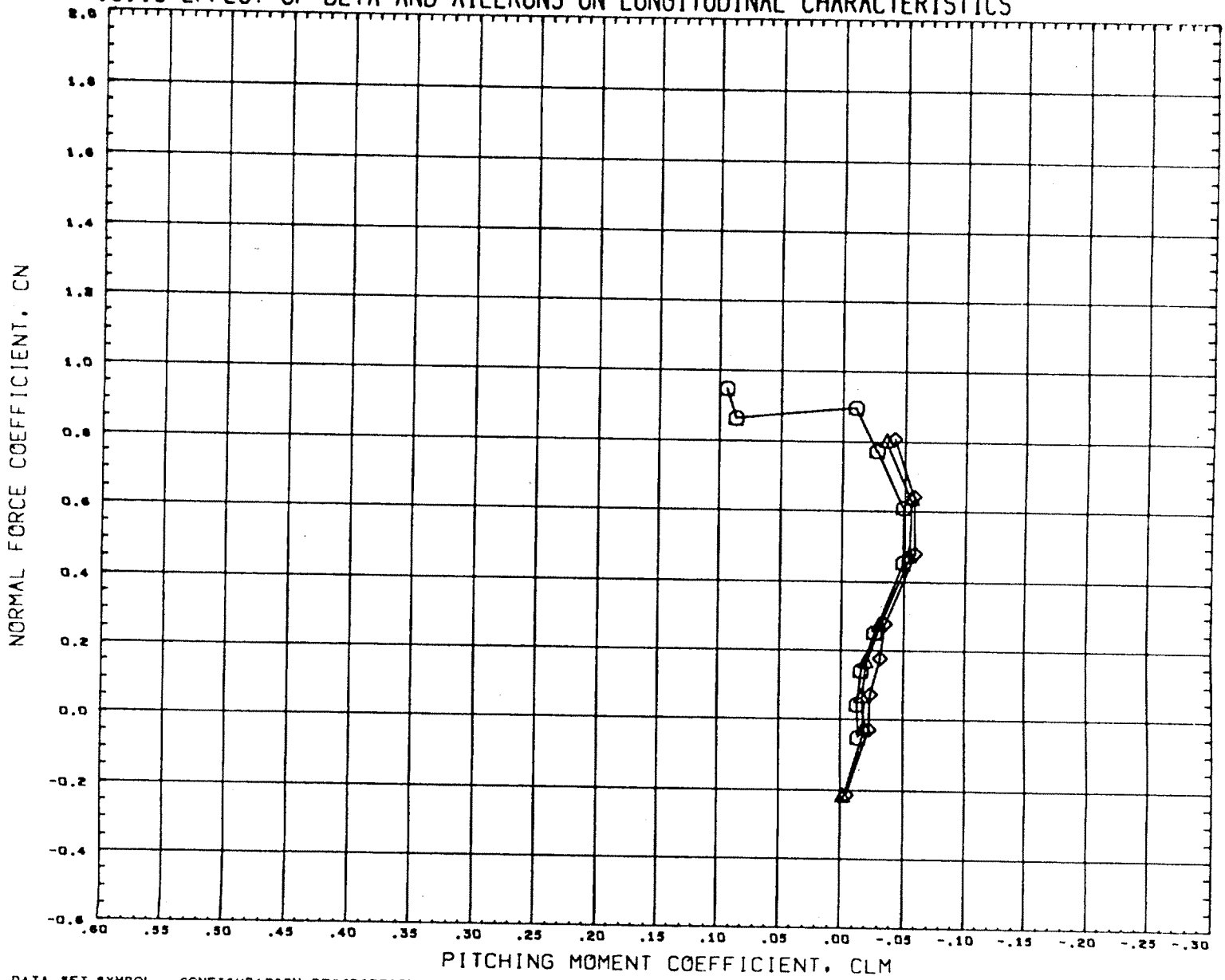


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-363 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-363 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-363 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

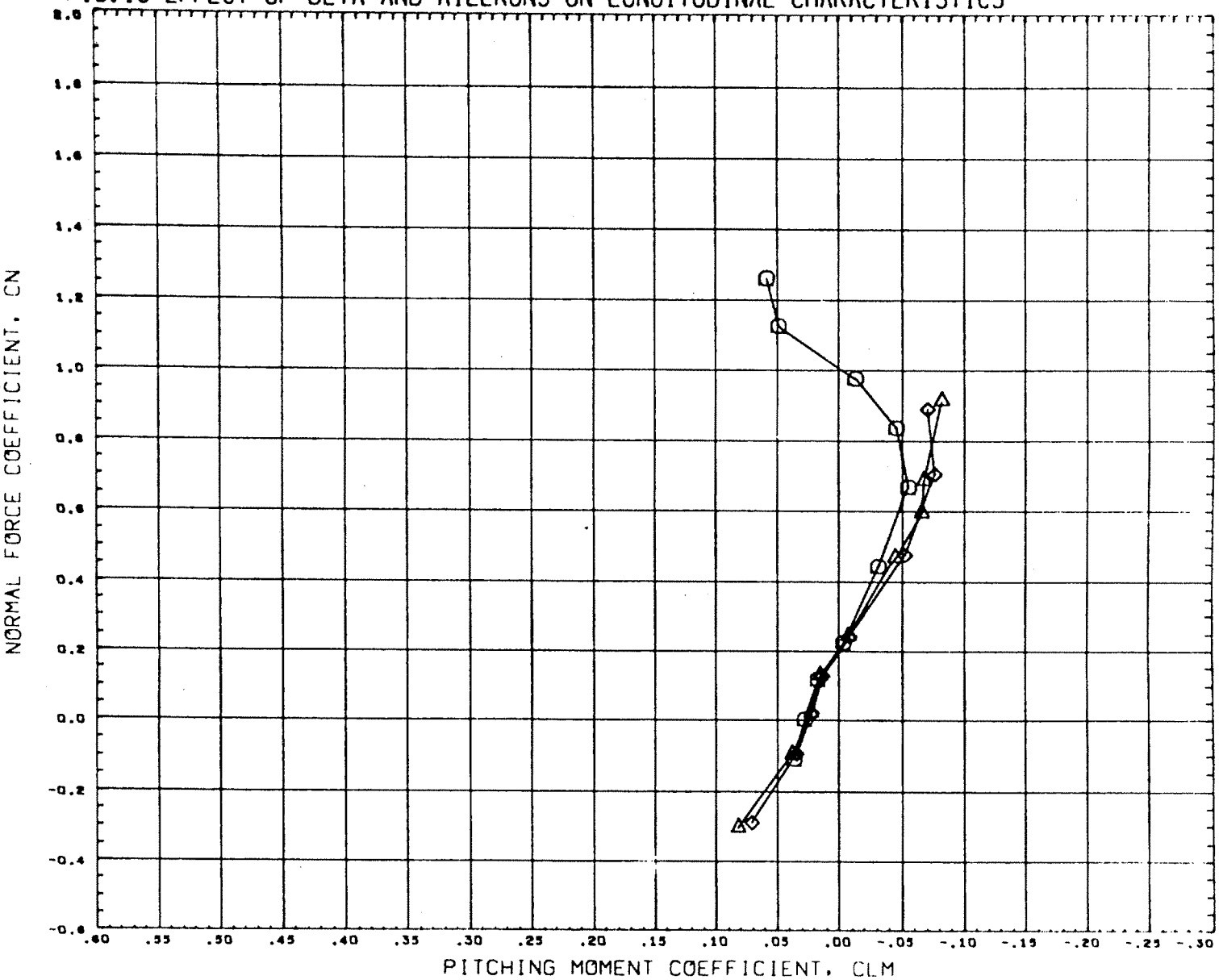
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



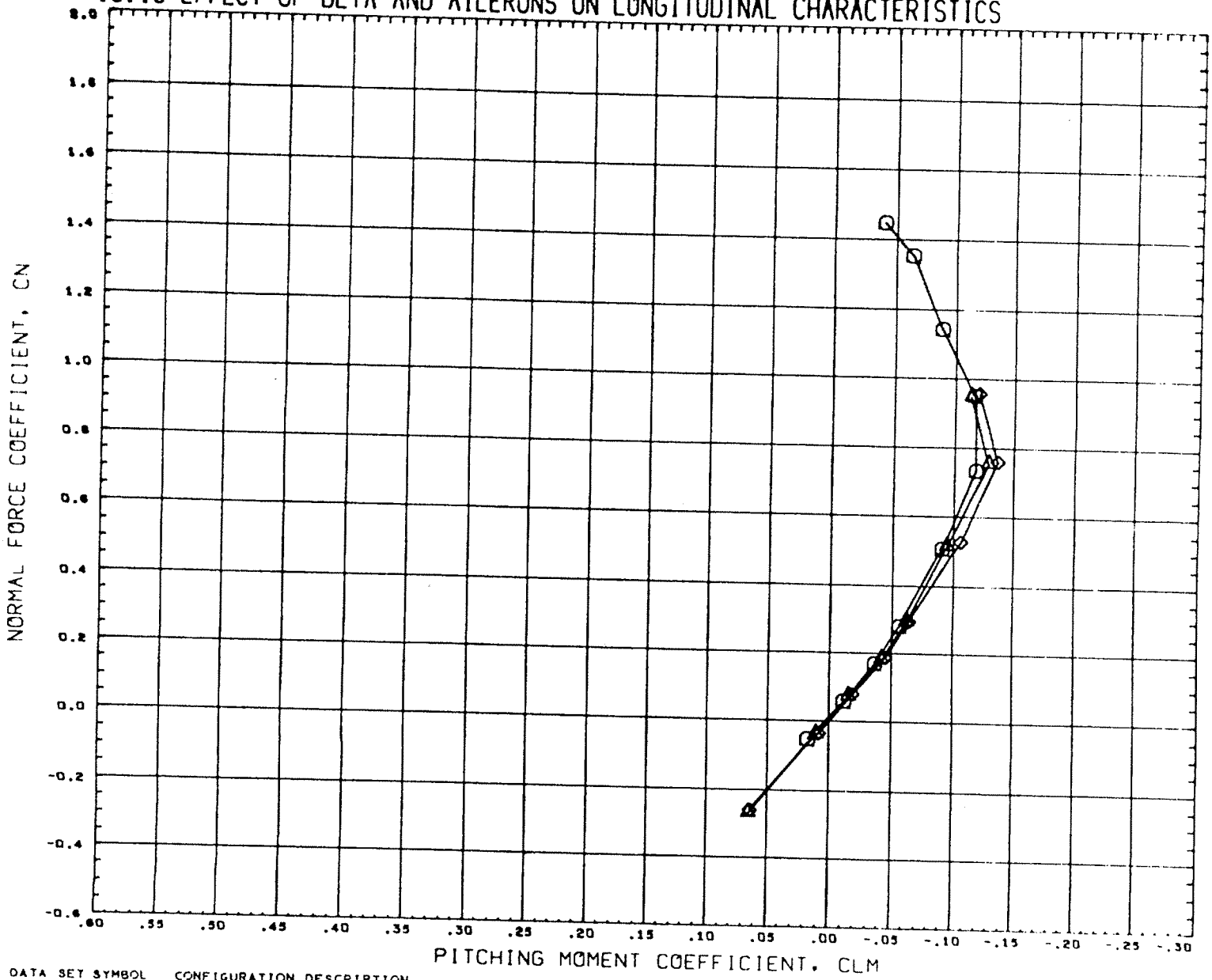
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



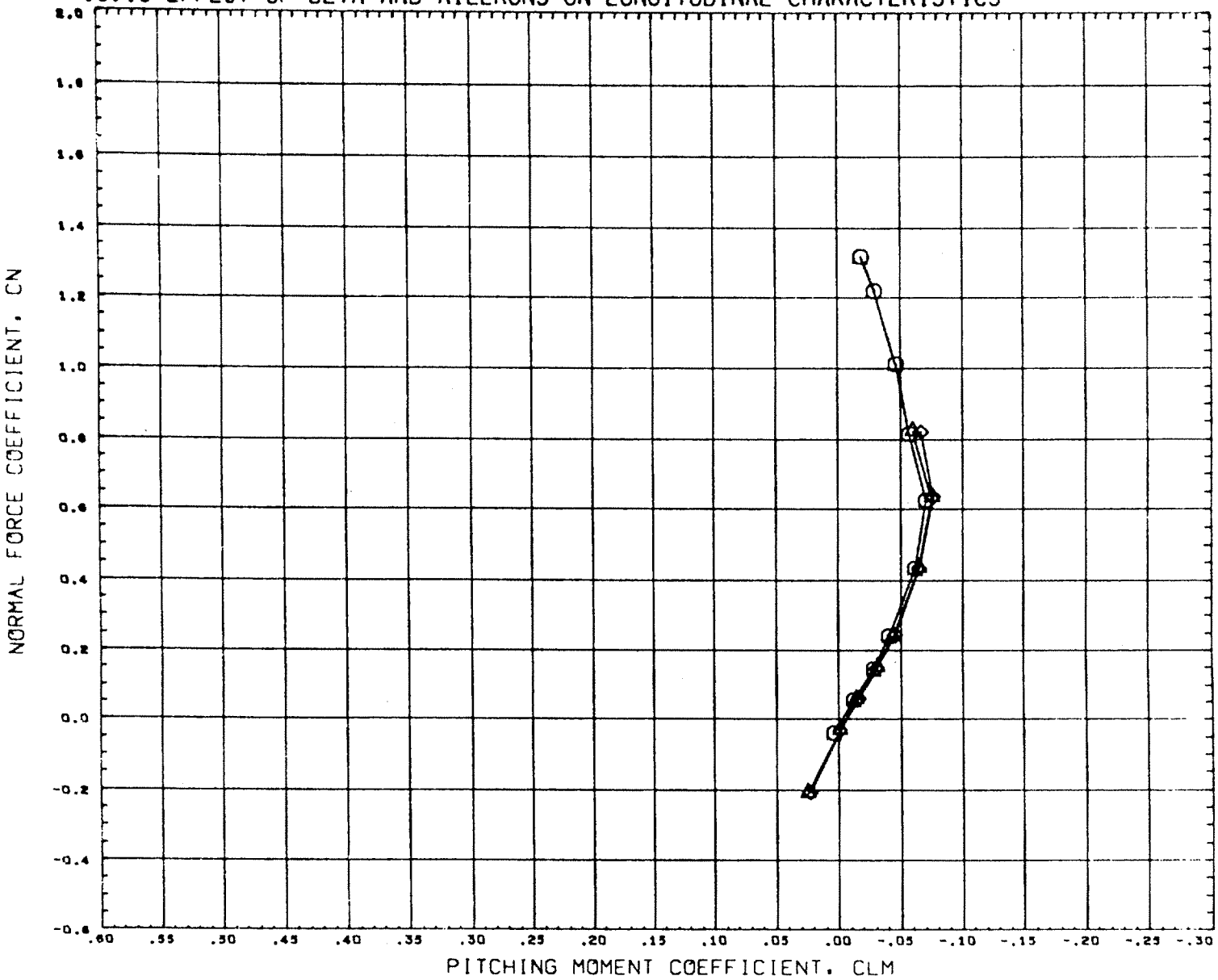
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA156)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

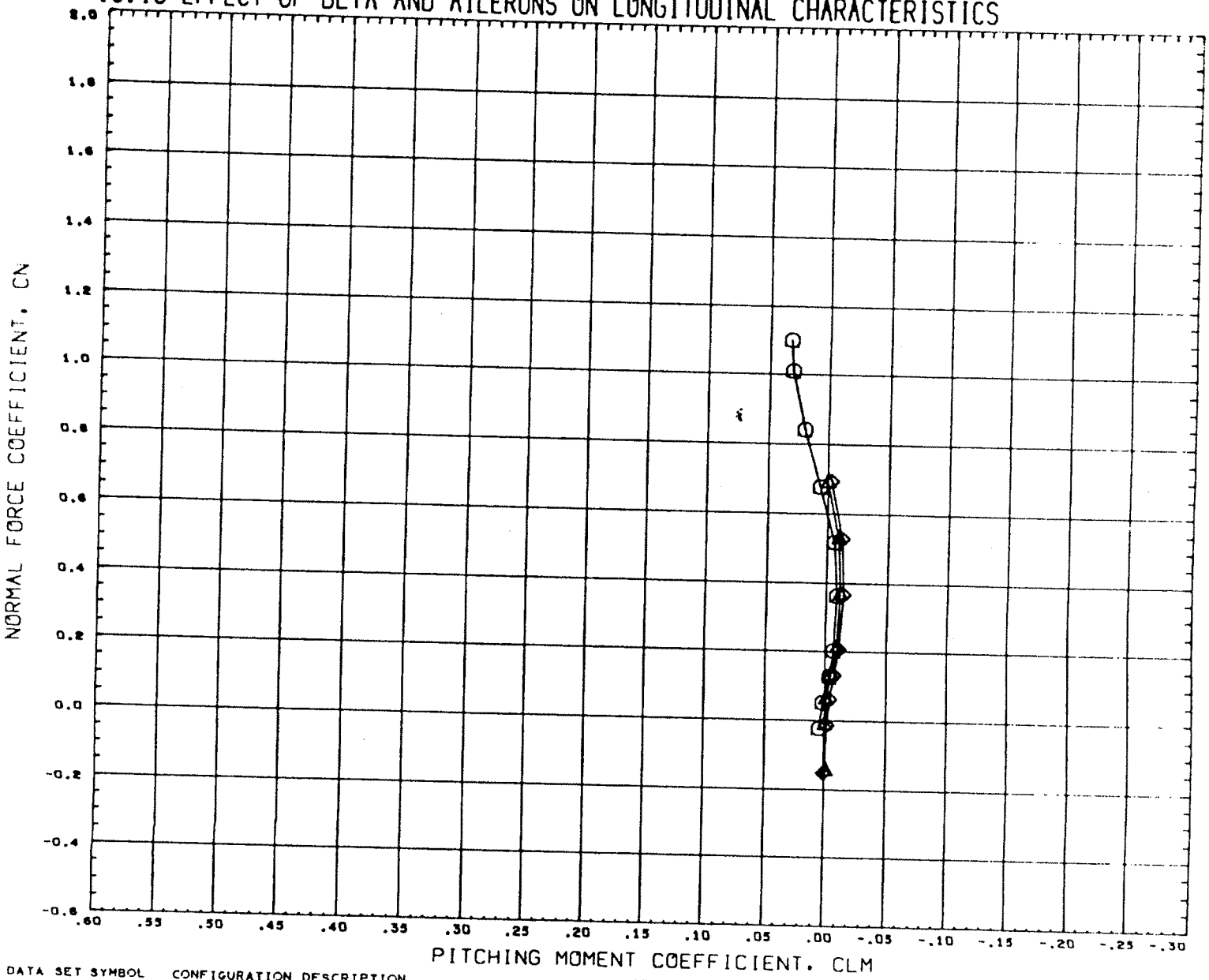


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA156)	◇	AMES 66-563 B22C8W19V10R2

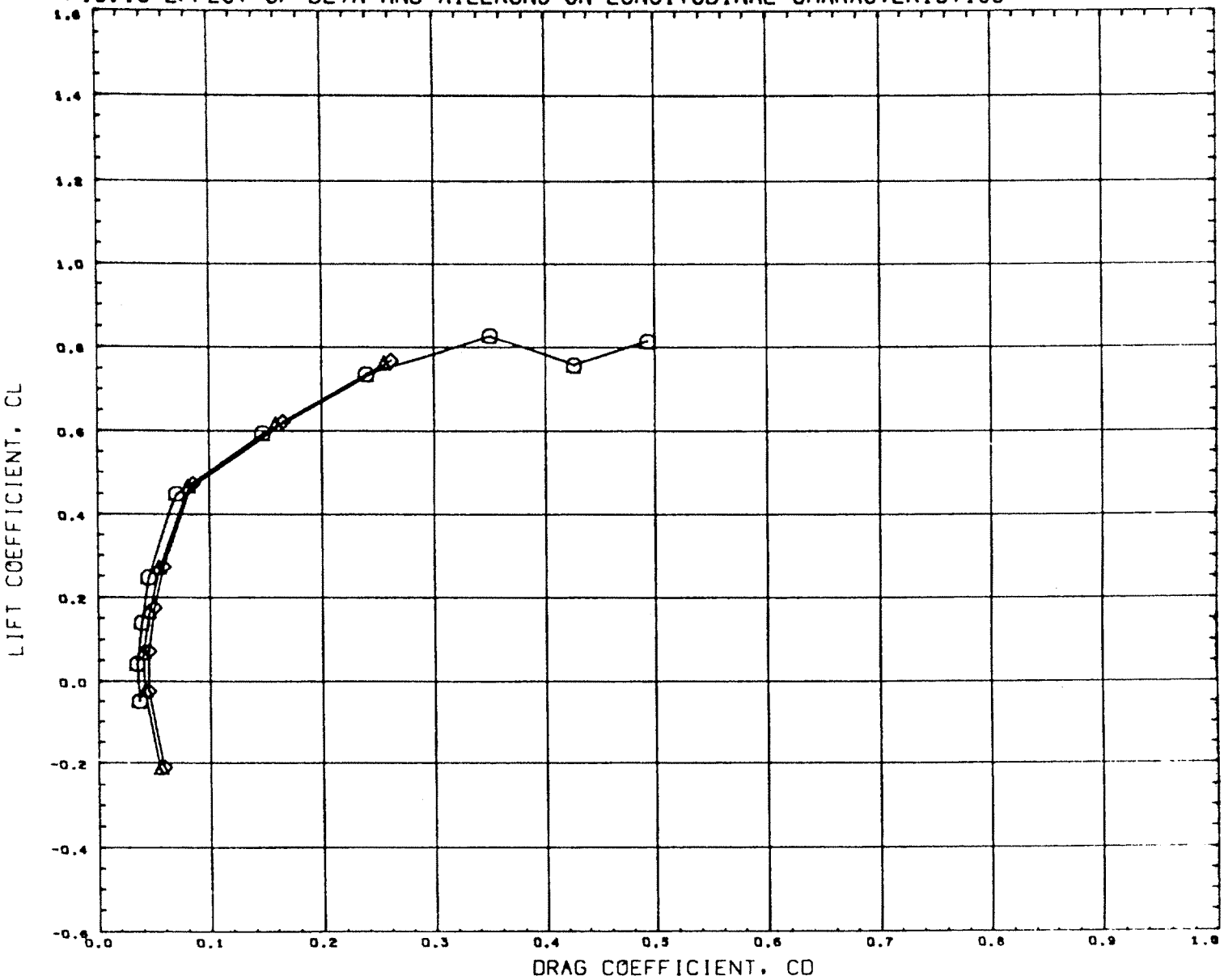
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS

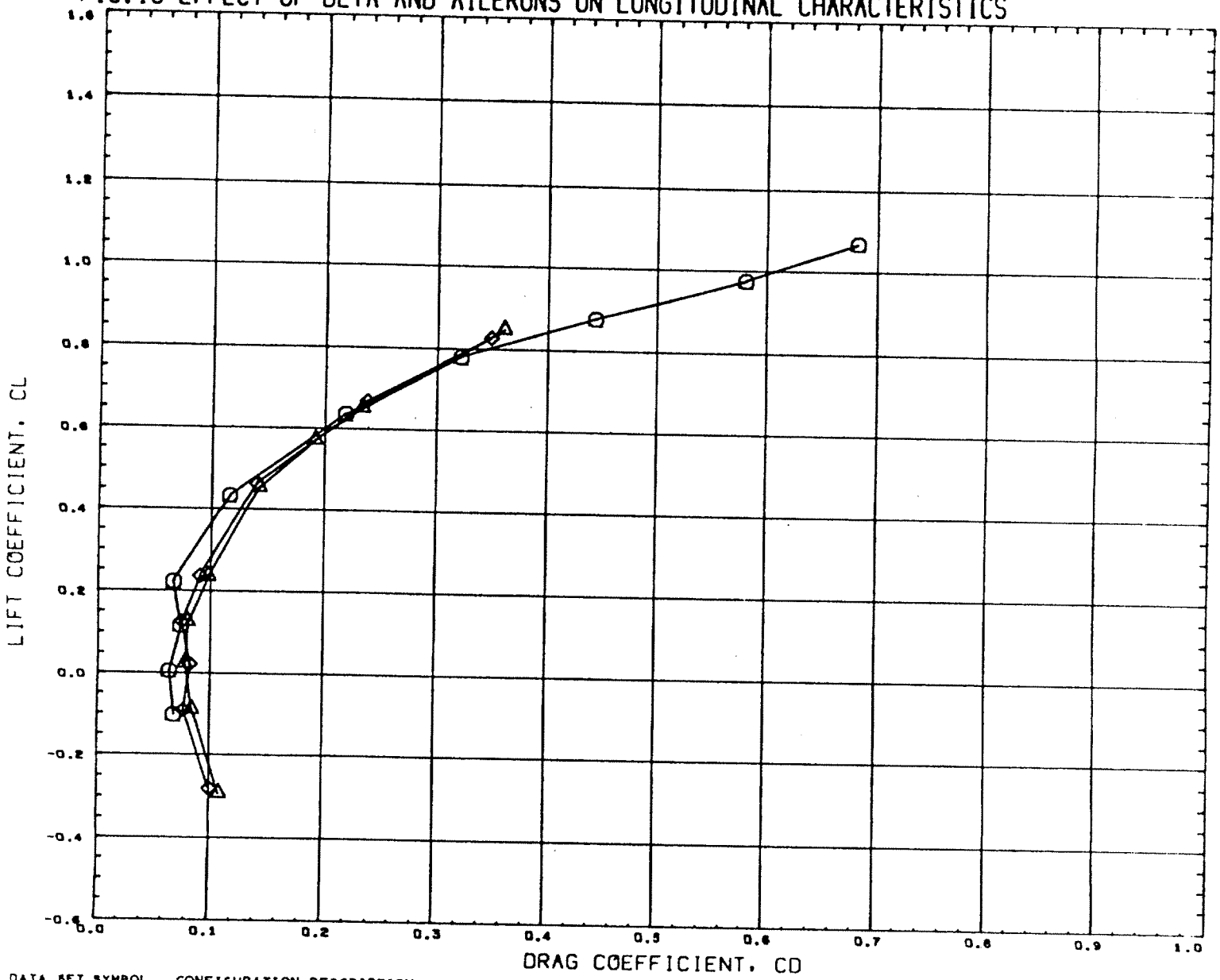


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA158)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.611

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

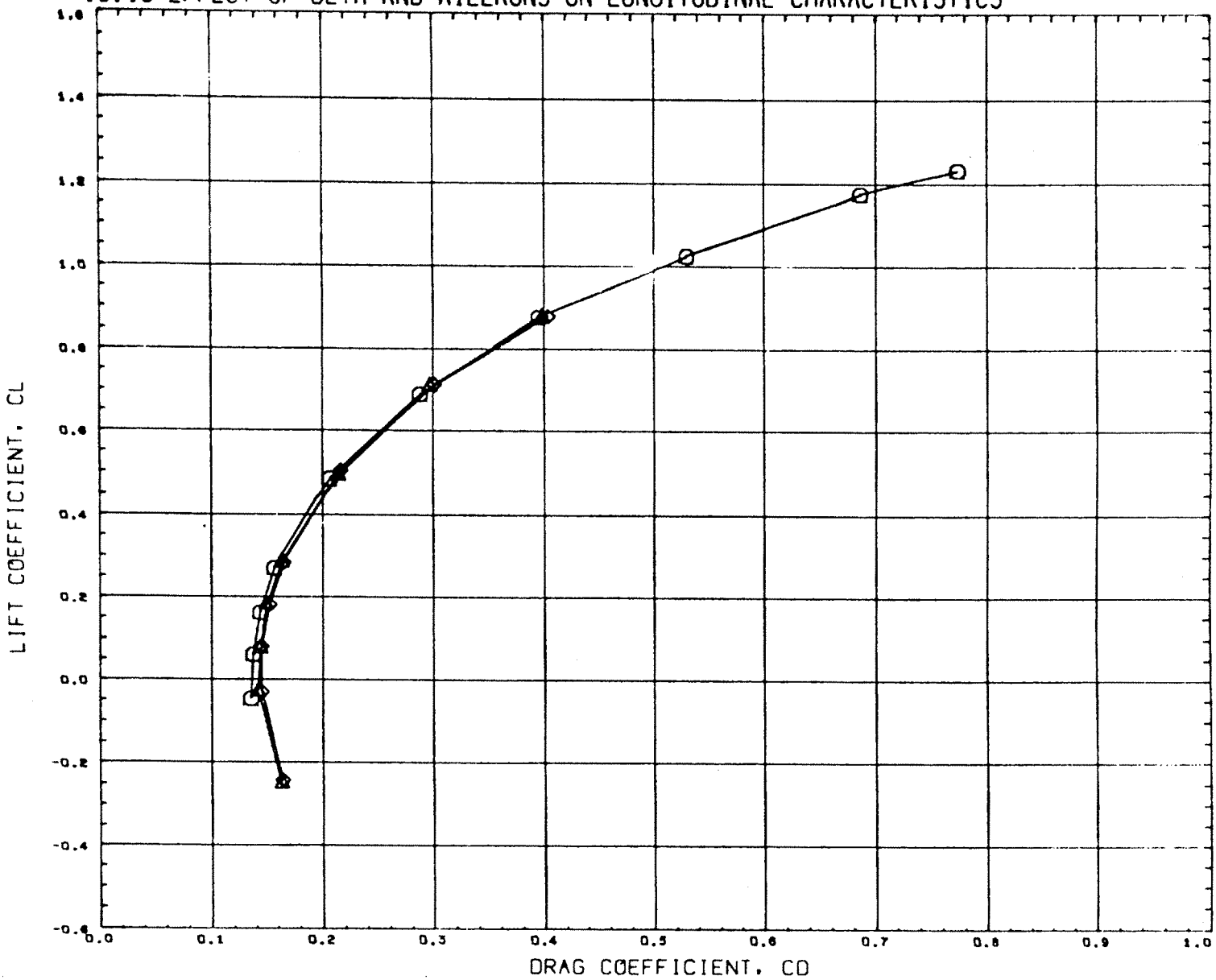
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



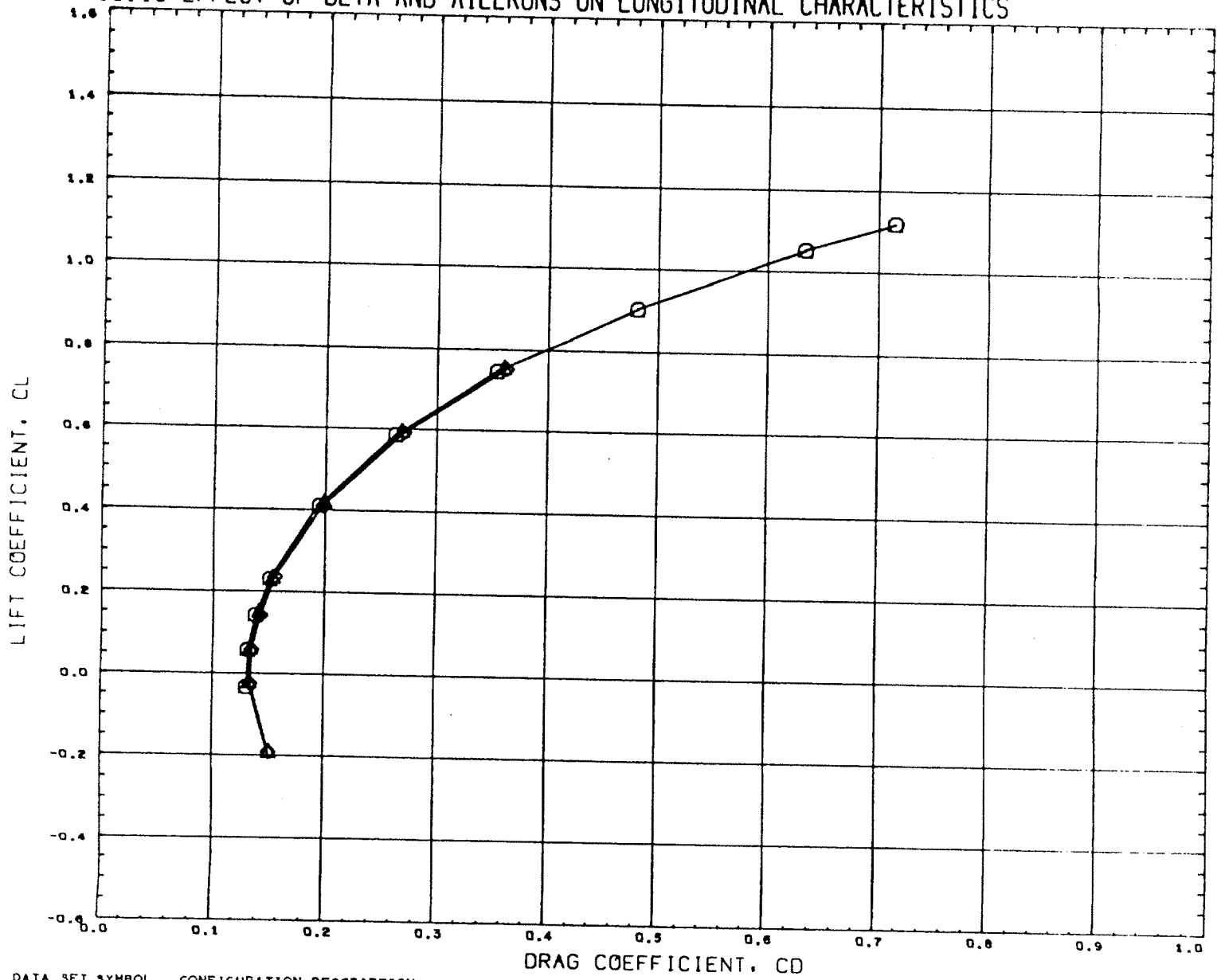
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	IC	AILRON	RUDDER
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000	0.000	0.000
(CBA150)	△	AMES 66-563 B22C8W19V10R2	2.500	0.000	0.000	0.000
(CBA156)	◇	AMES 66-563 B22C8W19V10R2	2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.204

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

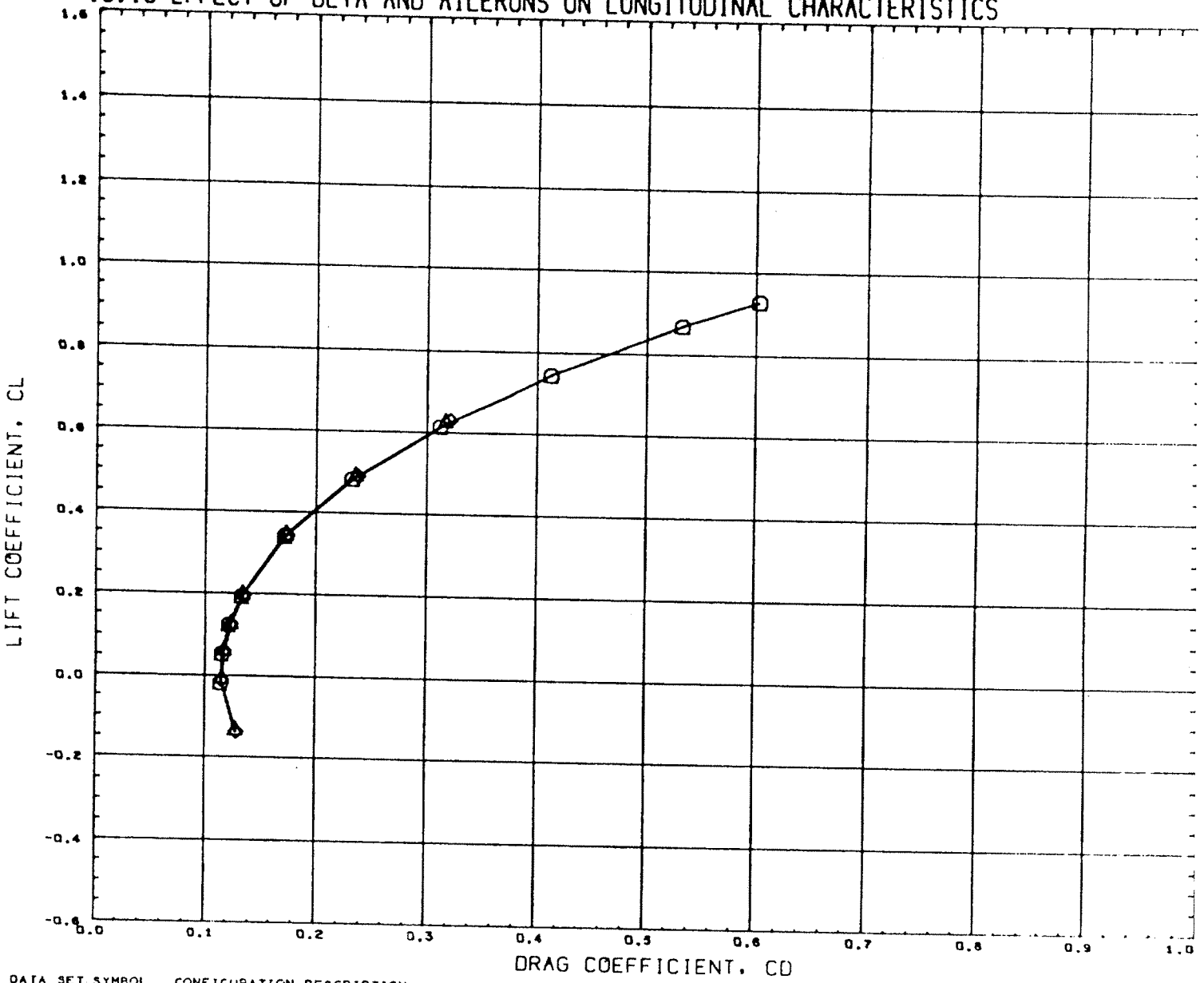
BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG.13 EFFECT OF BETA AND AILERONS ON LONGITUDINAL CHARACTERISTICS



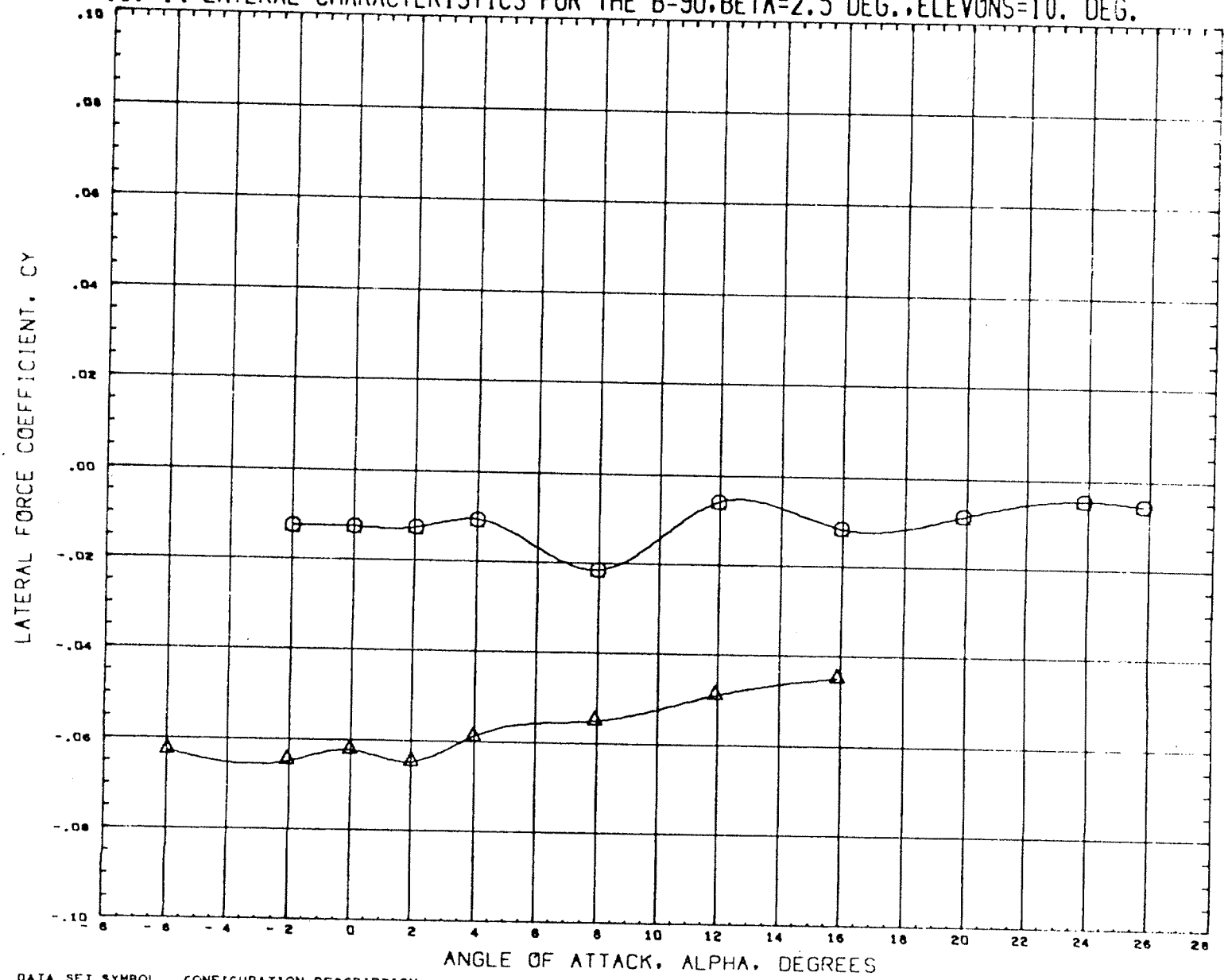
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA150)	△	AMES 66-563 B22C8W19V10R2
(CBA158)	◇	AMES 66-563 B22C8W19V10R2

BETA	IC	AILRON	RUDDER
0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000
2.500	0.000	10.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA234)	○	AMES 66-563 B22C8W19V10R2
(DBA134)	△	AMES 66-563 B22C8W19V10R2

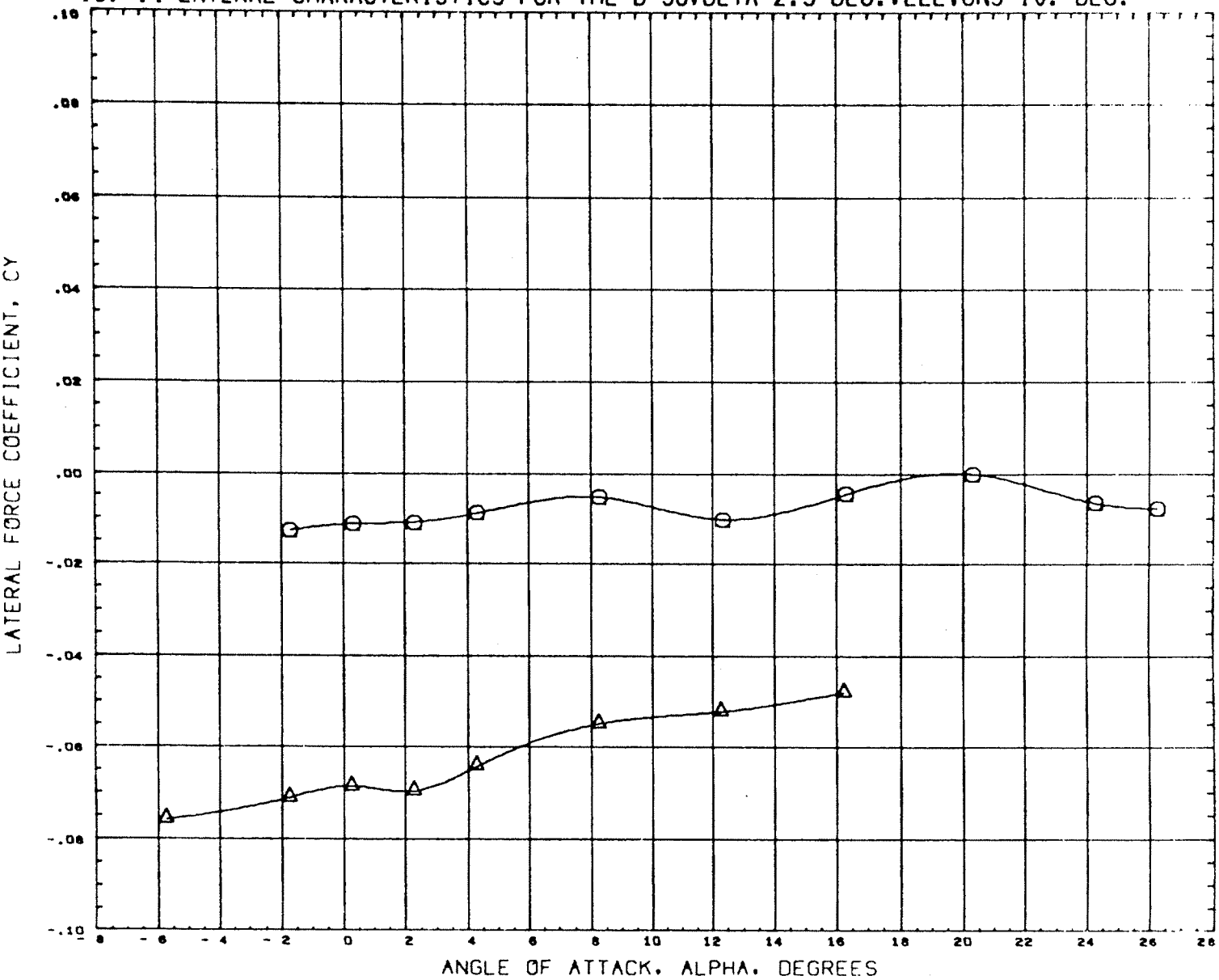
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.612

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



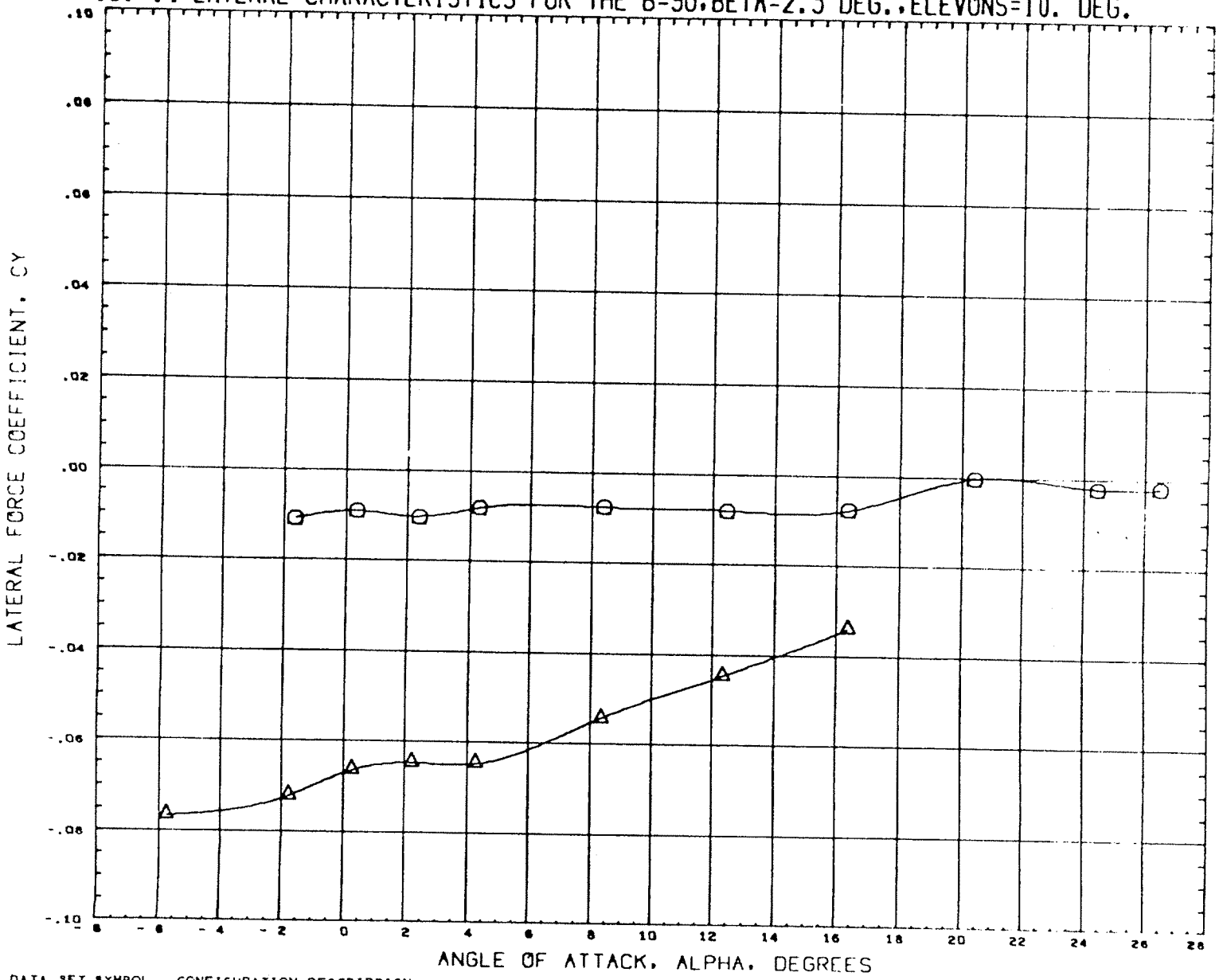
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

MACH 0.913

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

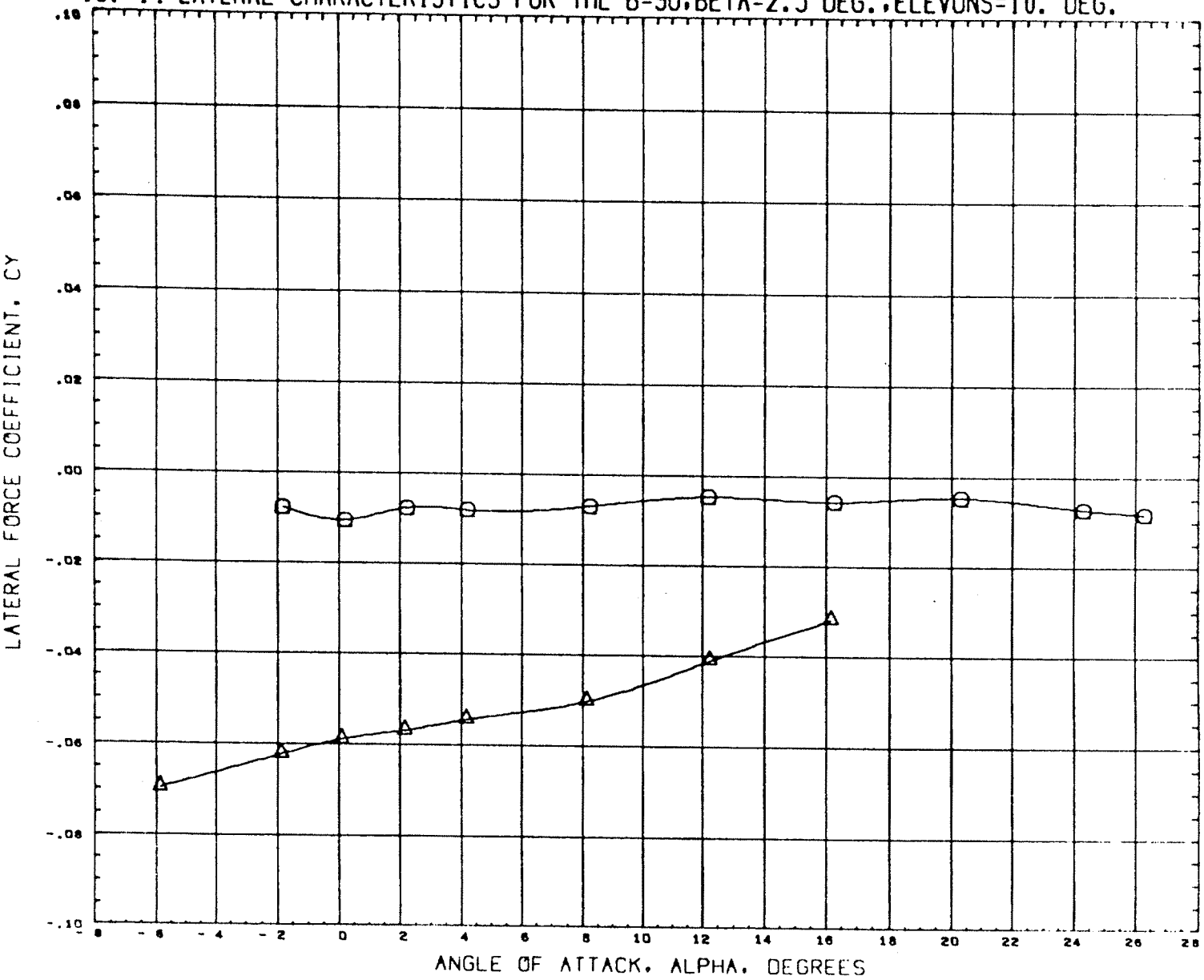
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.205

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



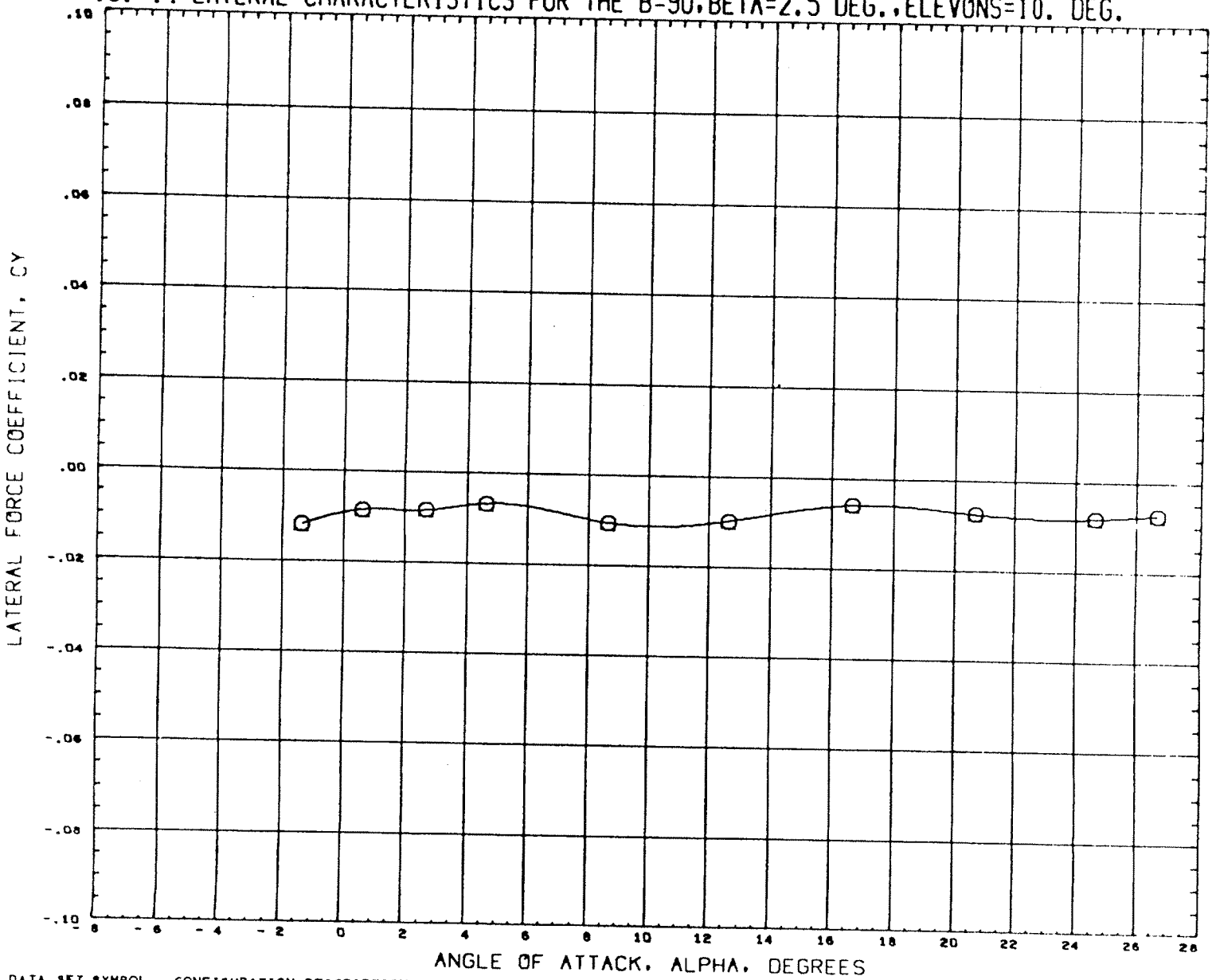
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA234)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.498

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



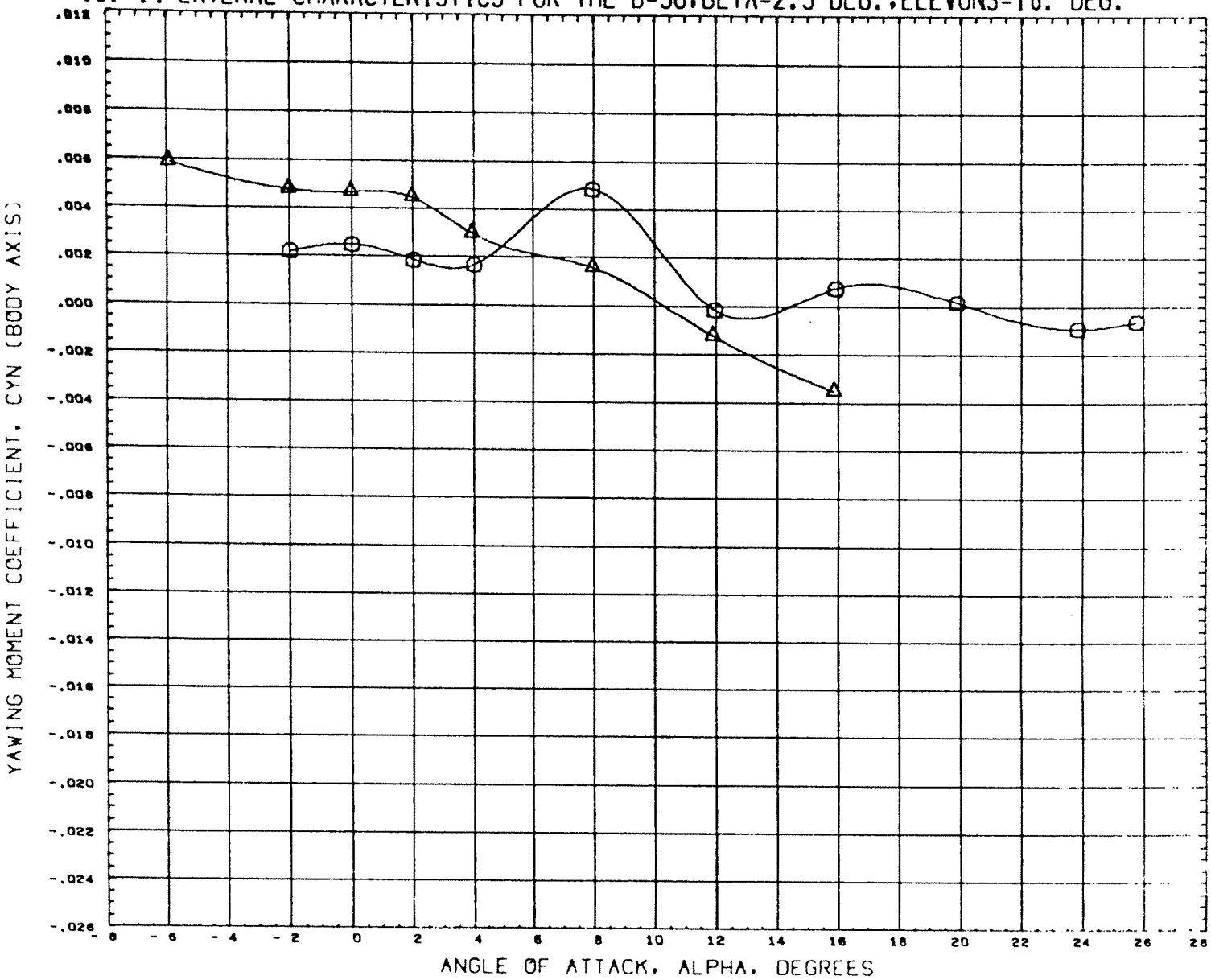
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.002

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

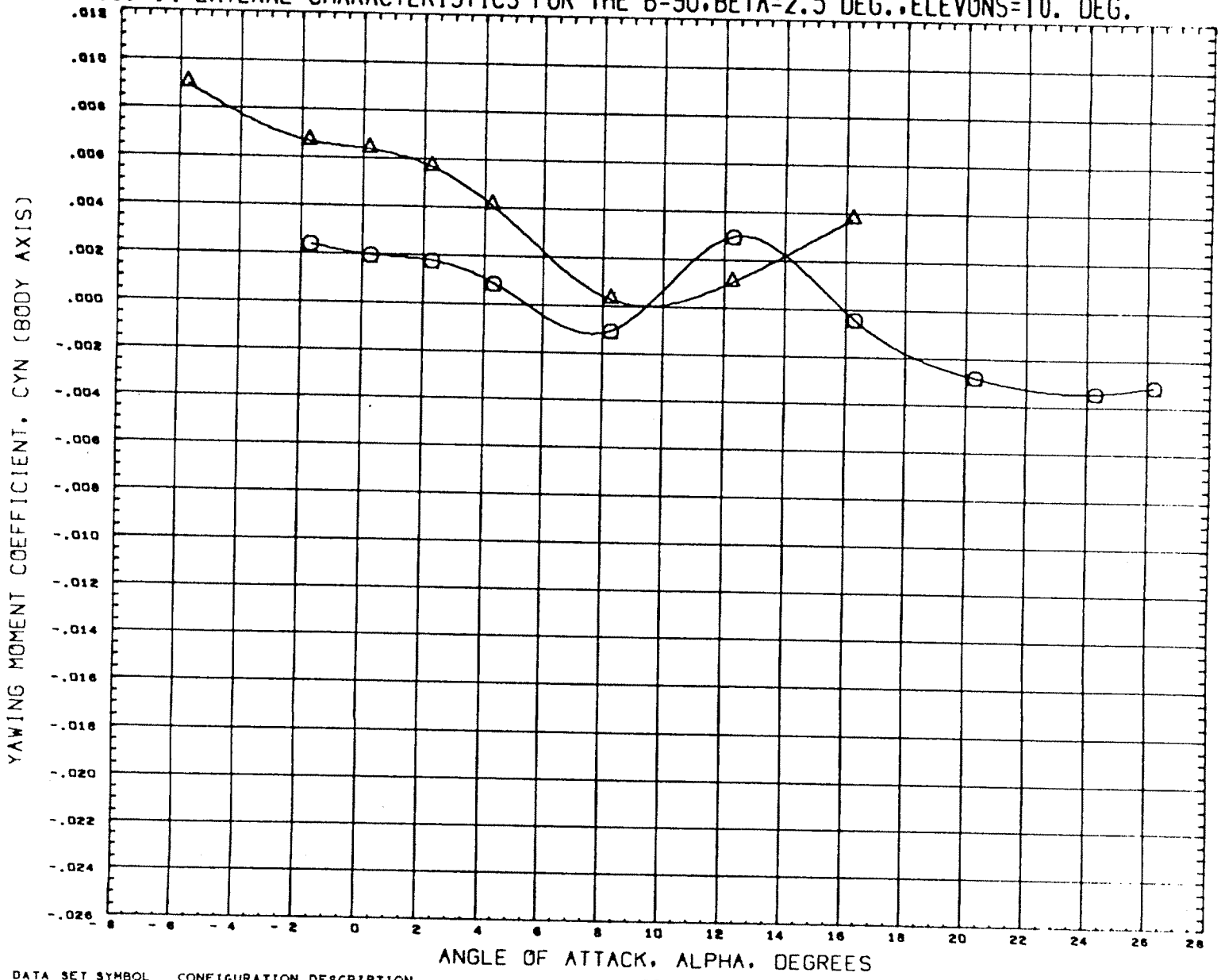


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.612

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

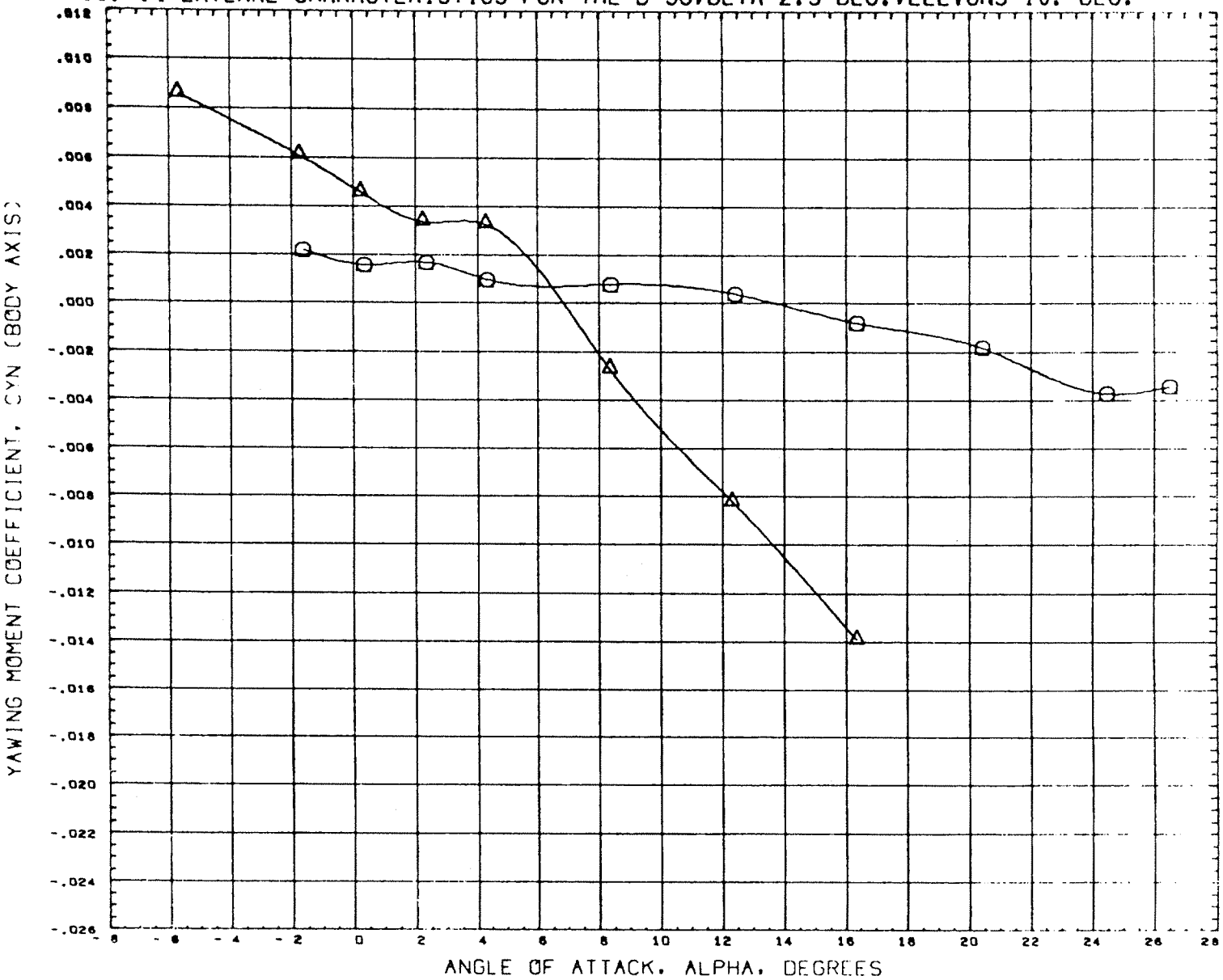
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.913

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

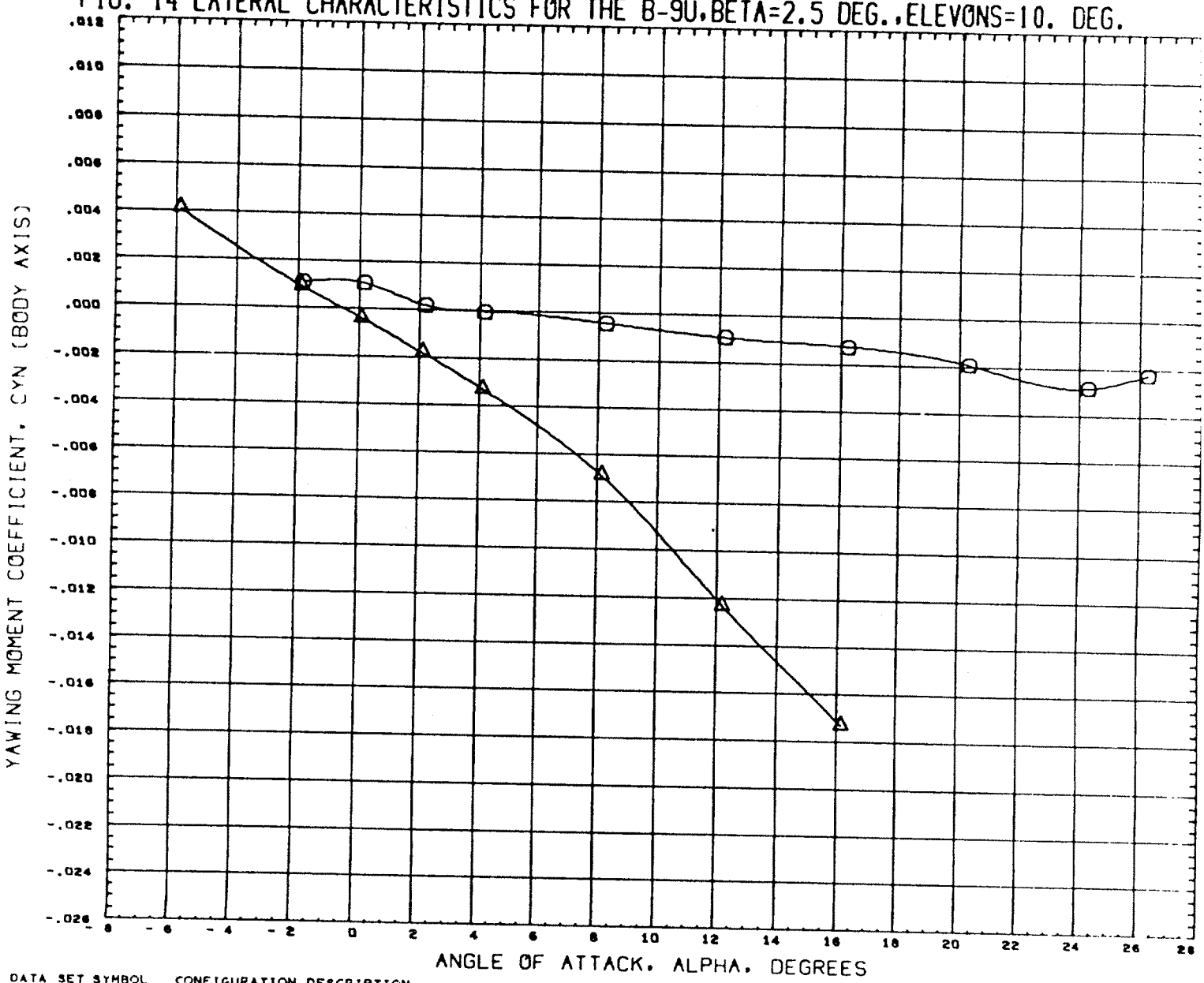


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(OBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(OBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.205

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

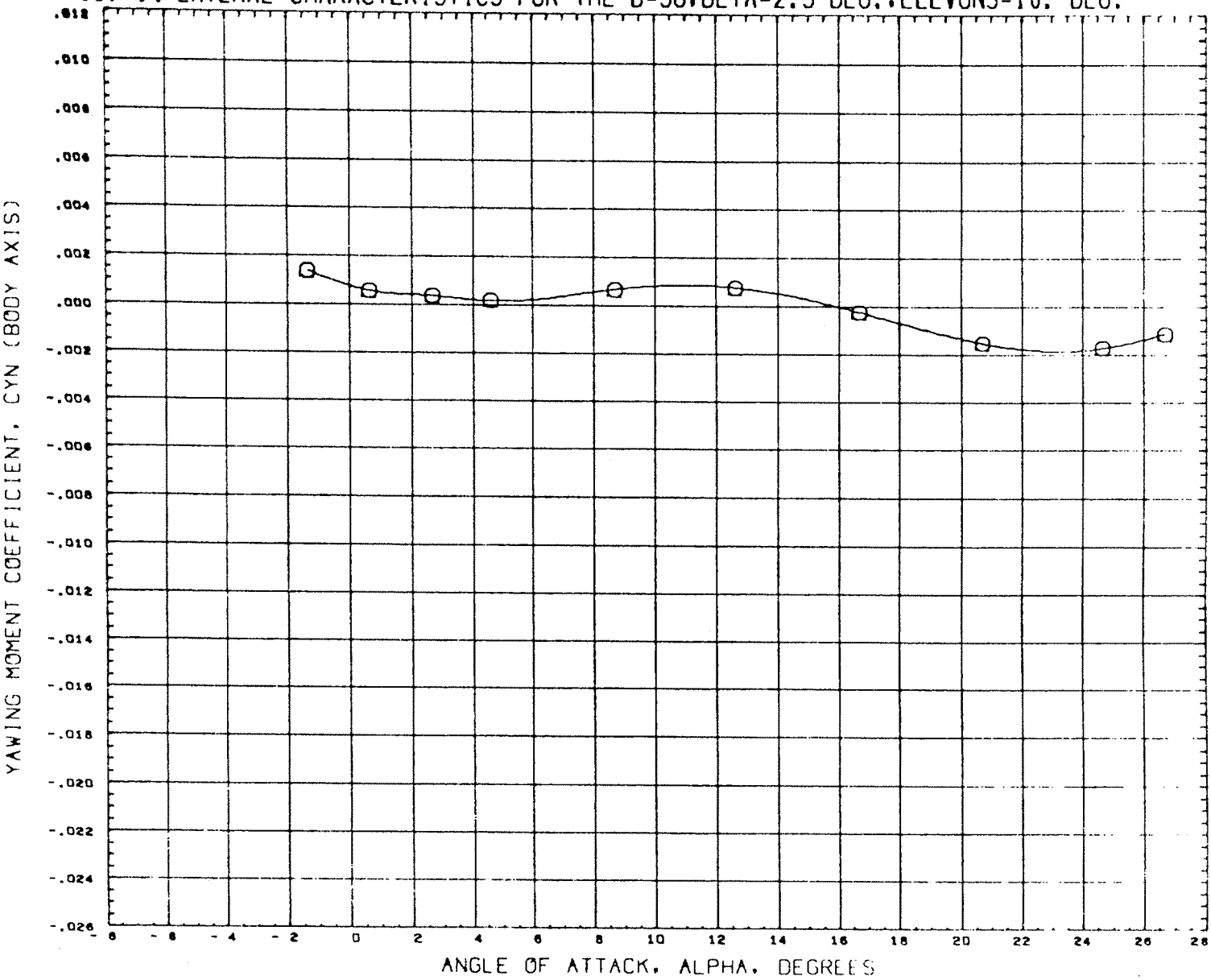
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.498

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



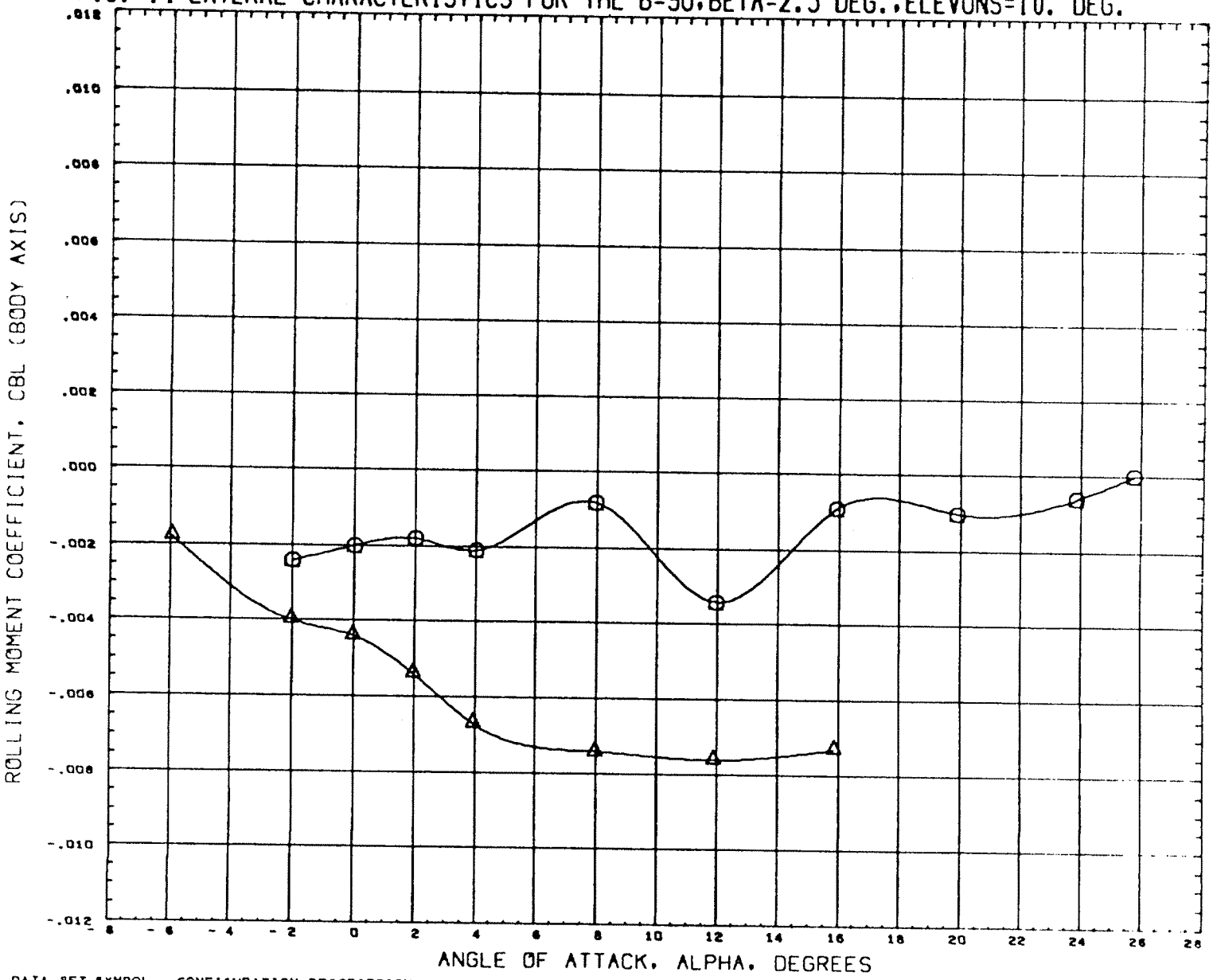
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.002

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

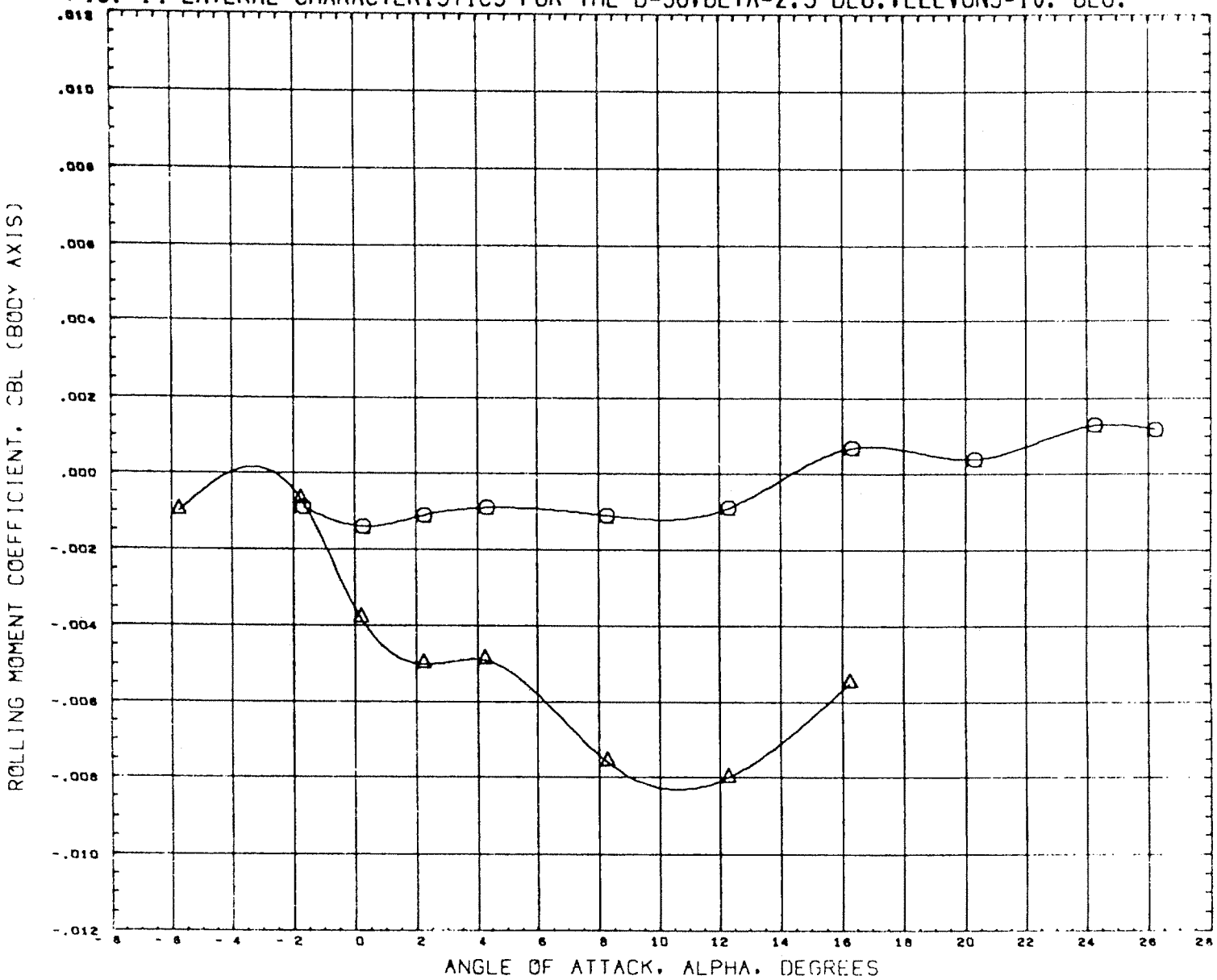
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.612

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

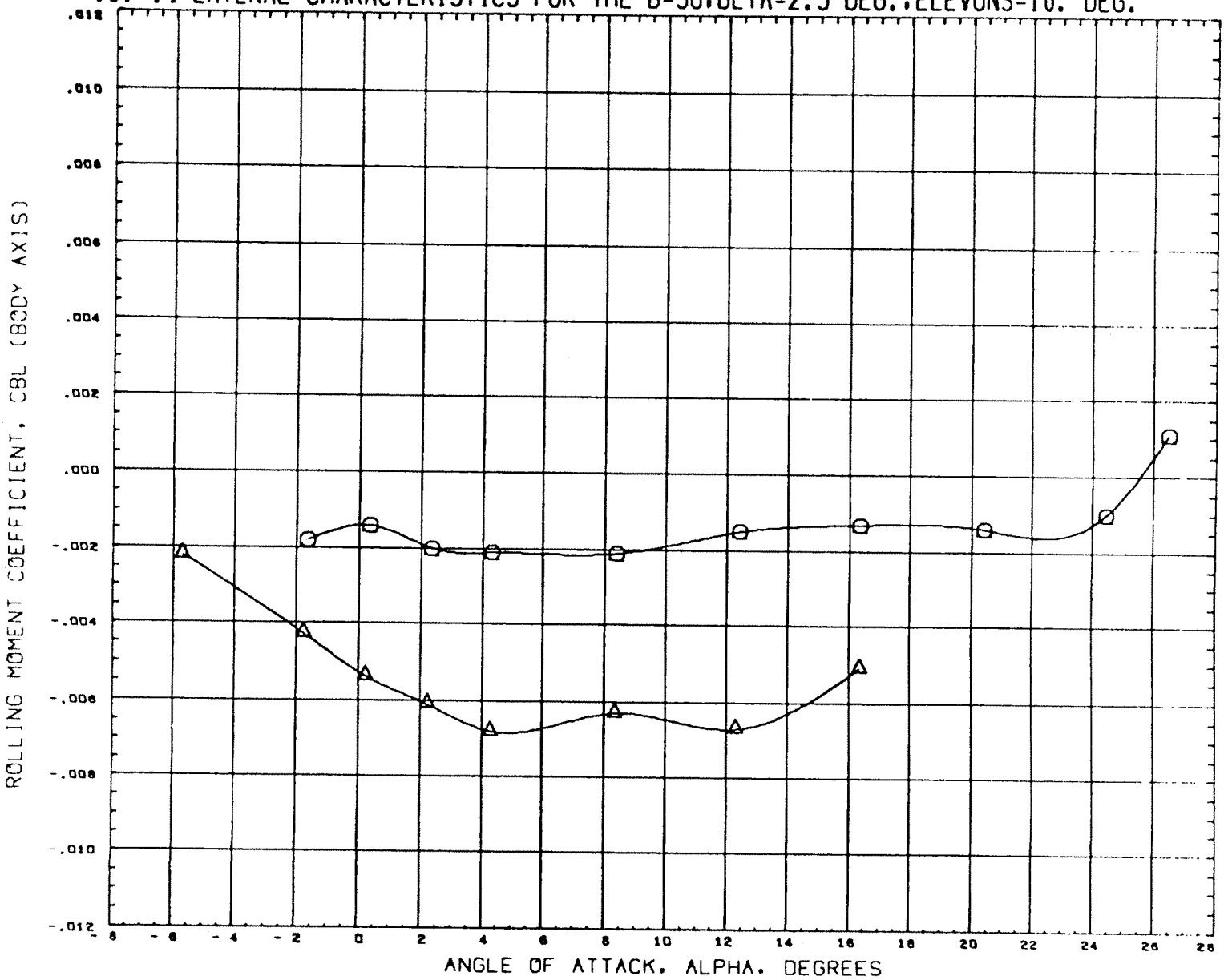


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.913

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

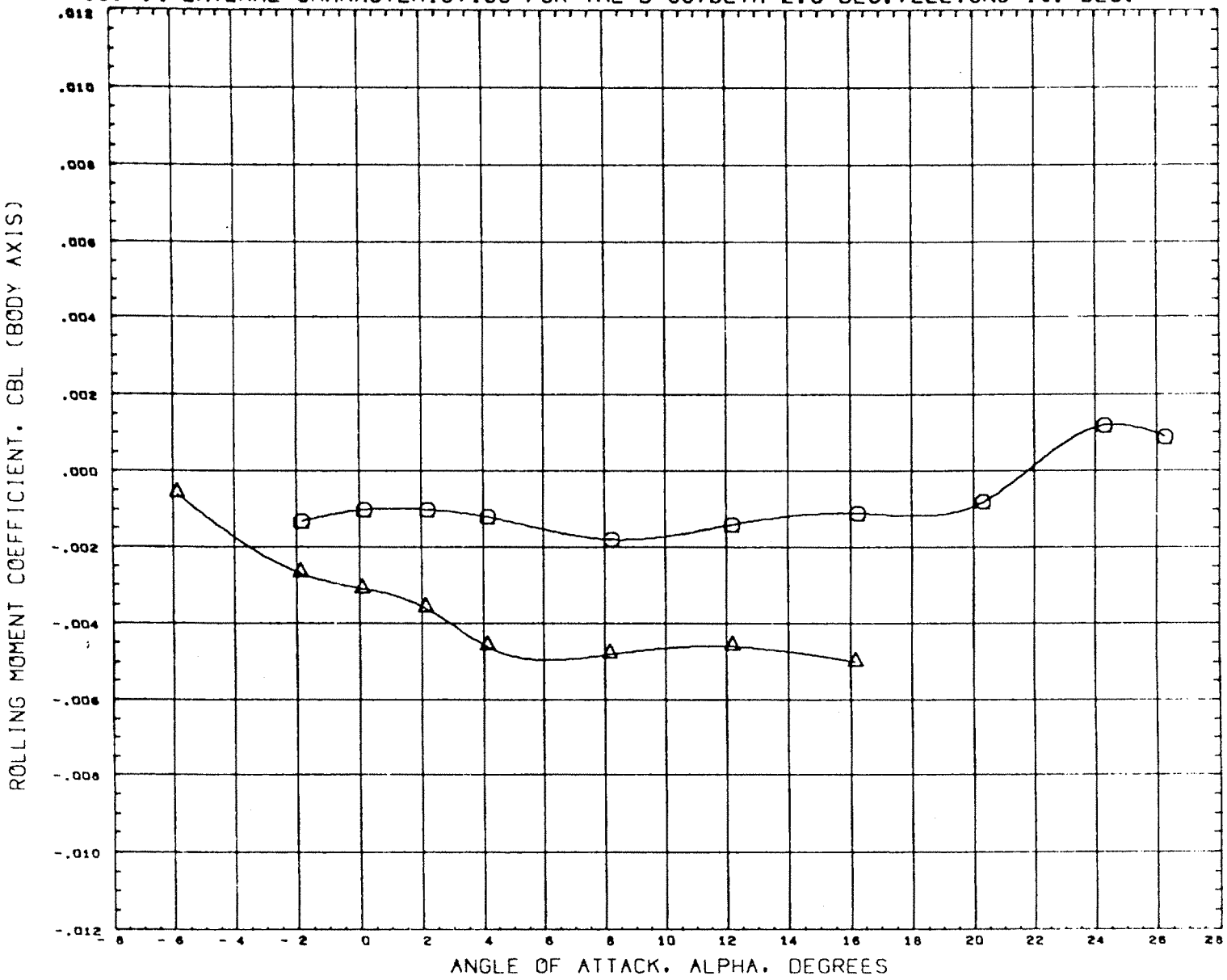
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.205

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

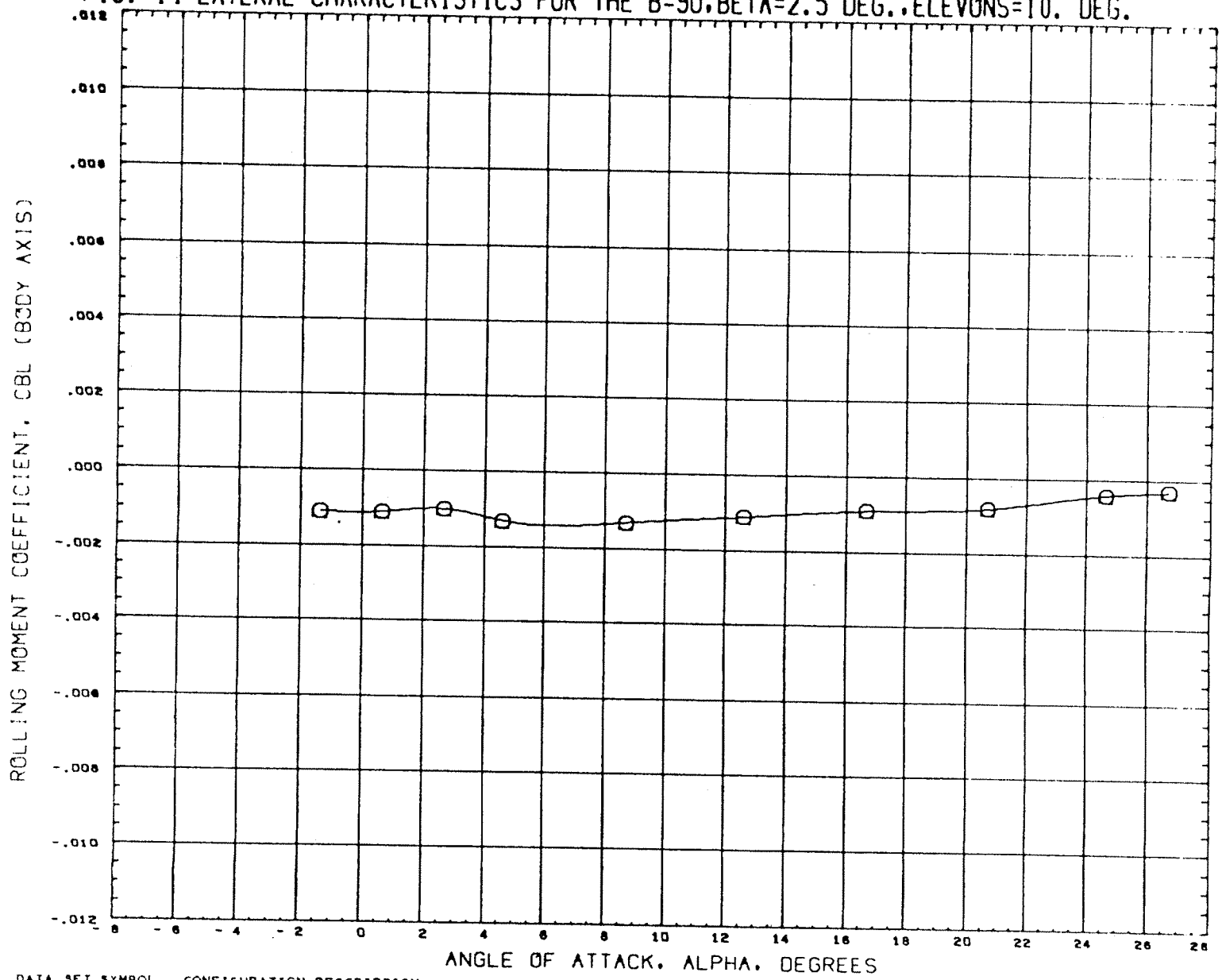


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.498

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



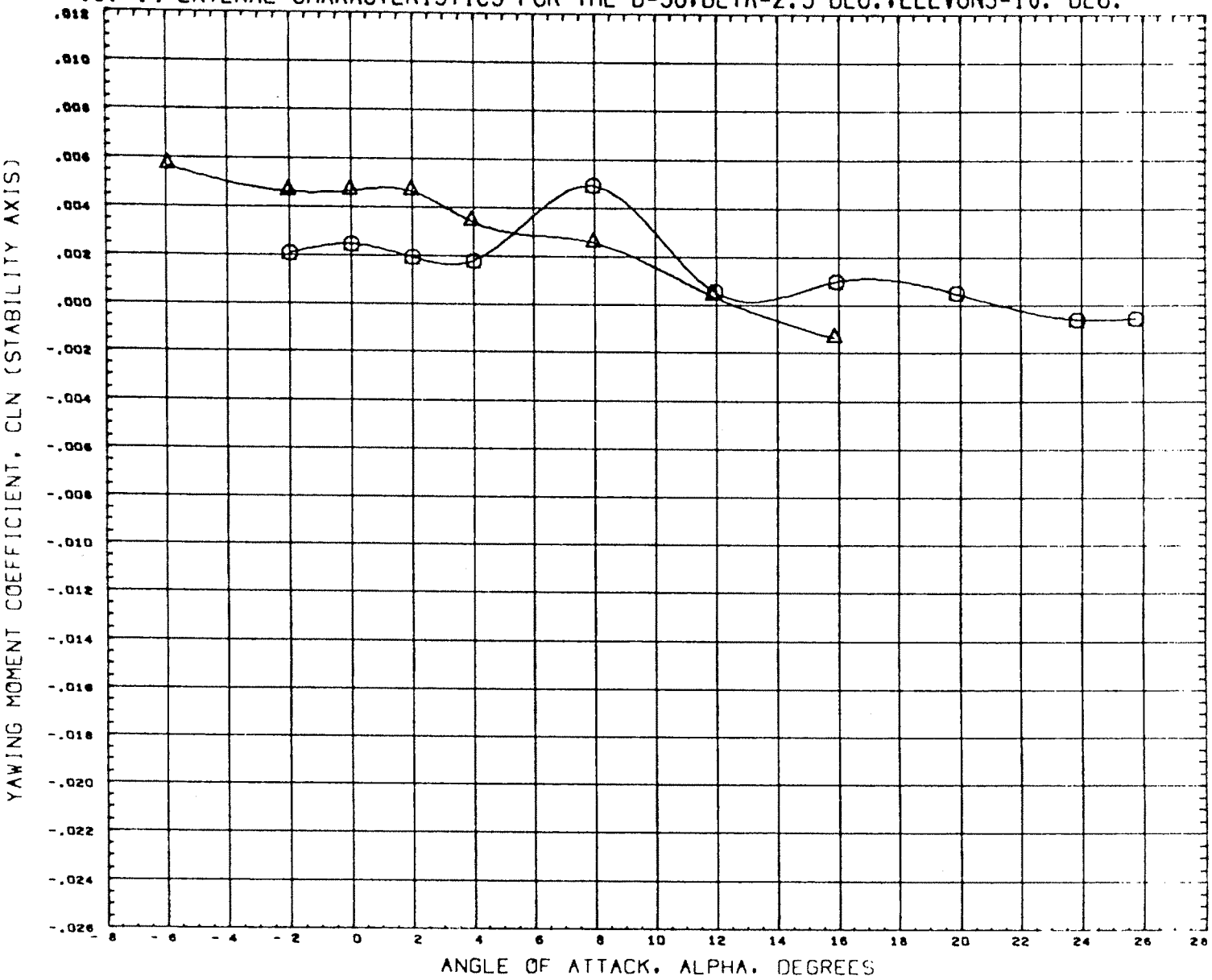
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	5.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.002

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



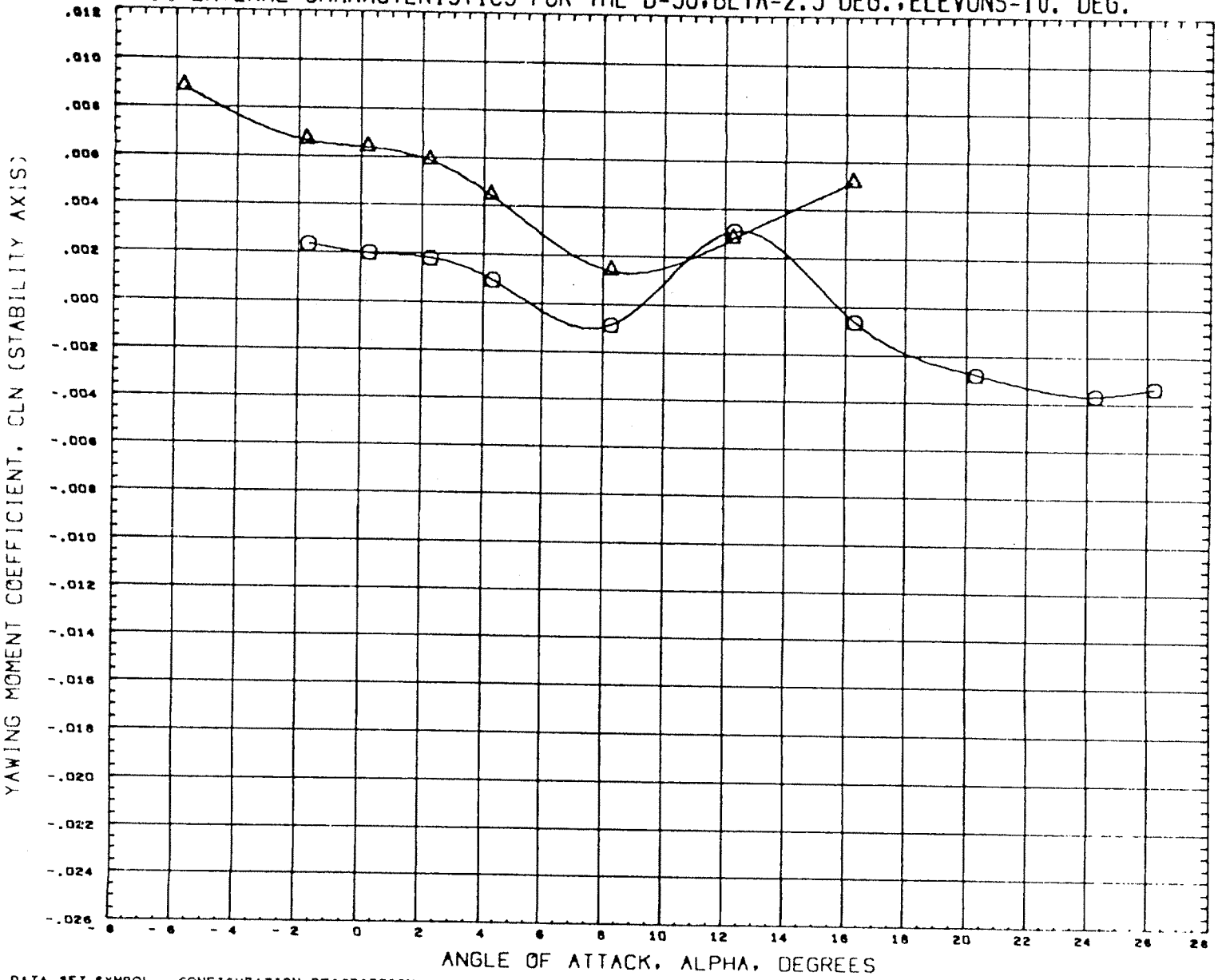
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA234)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.612

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA234)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

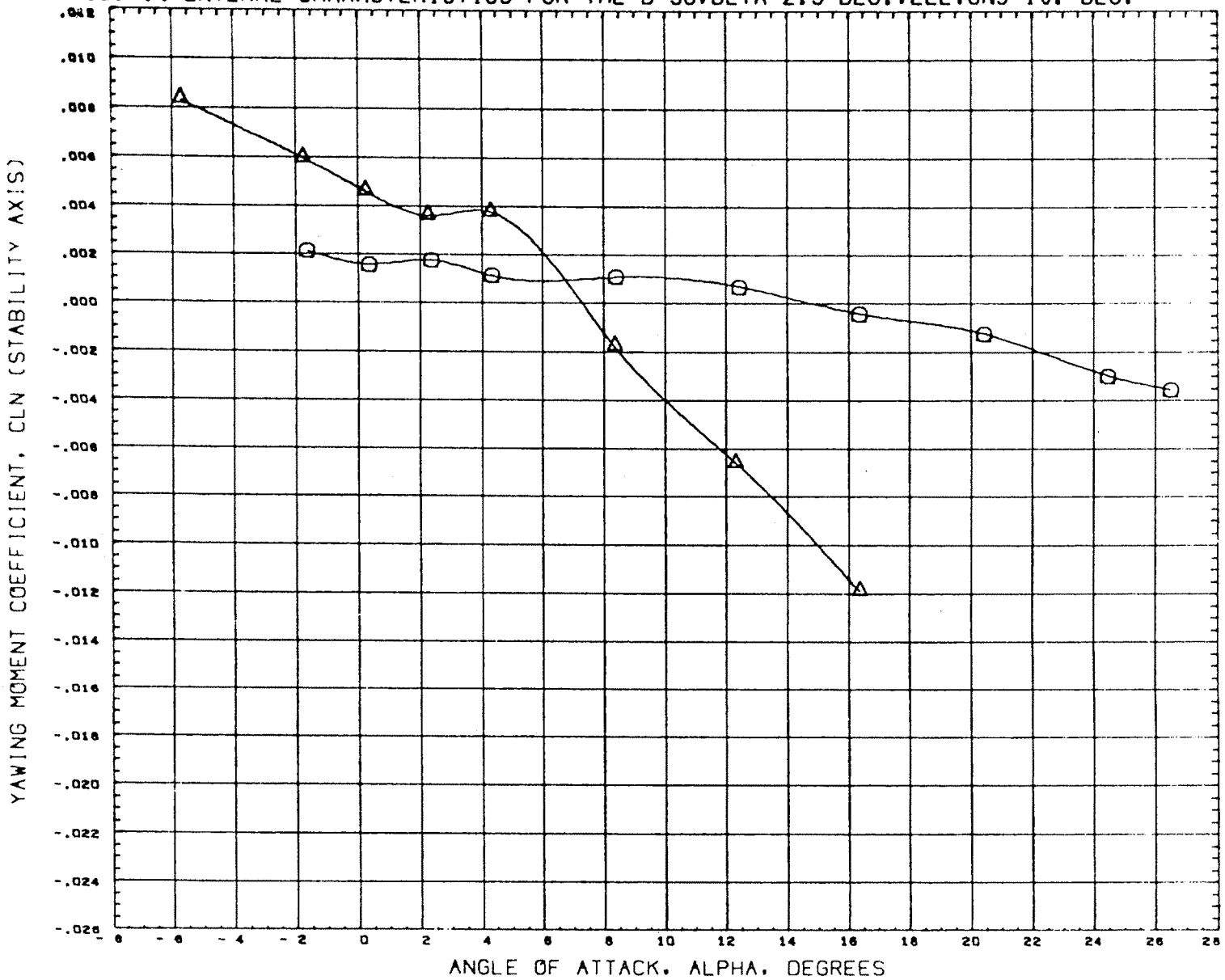
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.913

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

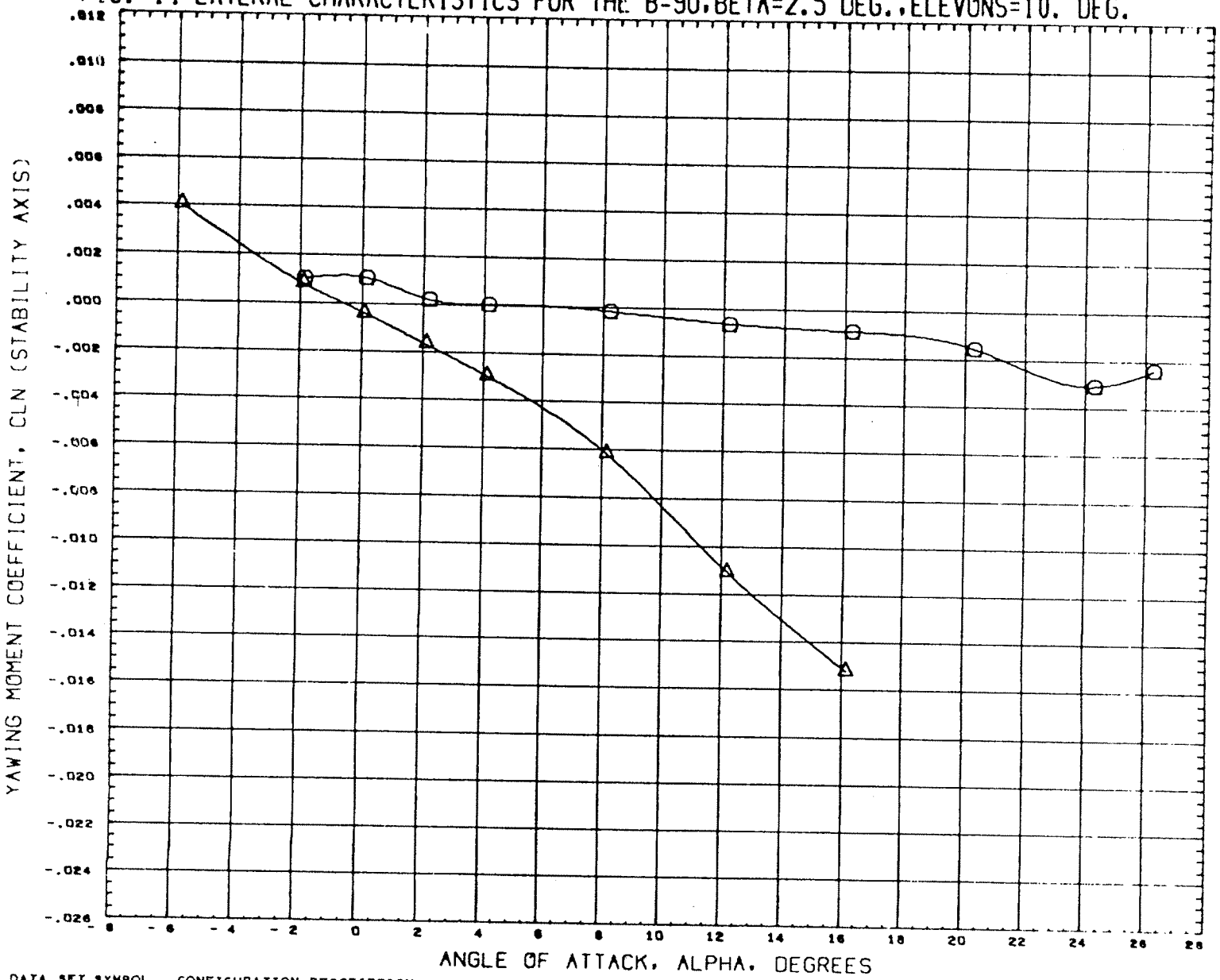


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.205

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

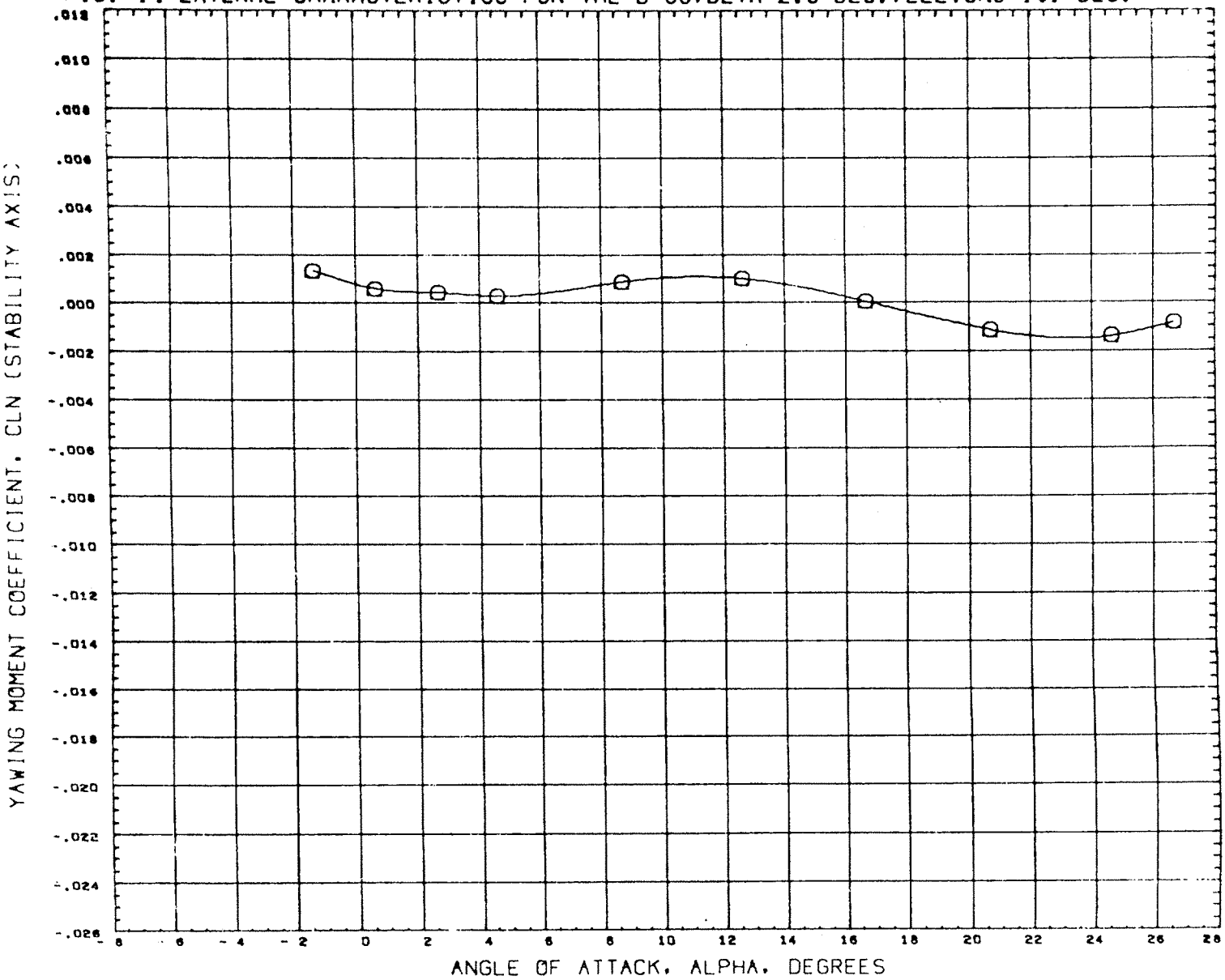
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.498

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



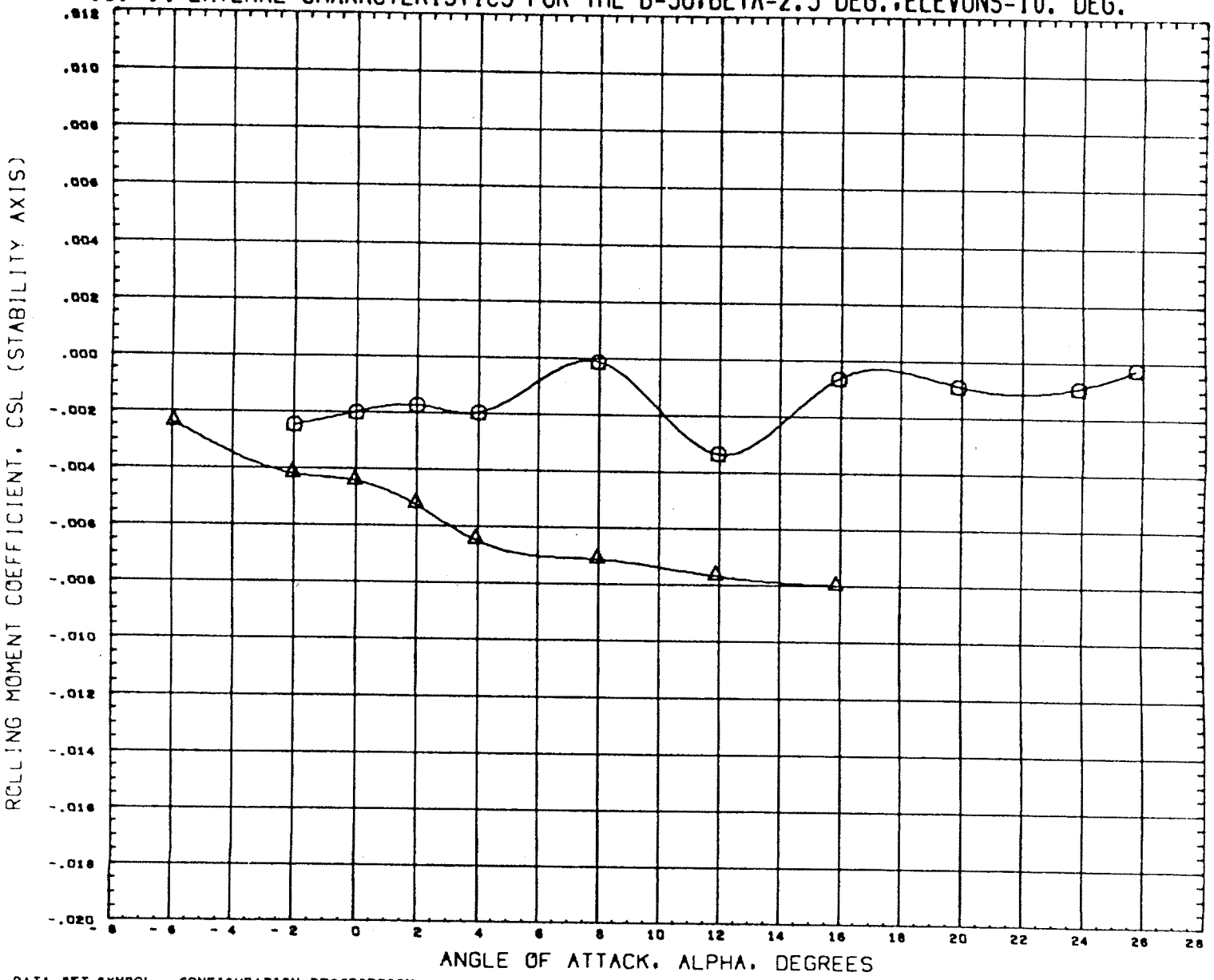
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA234)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA134)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0880	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.002

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

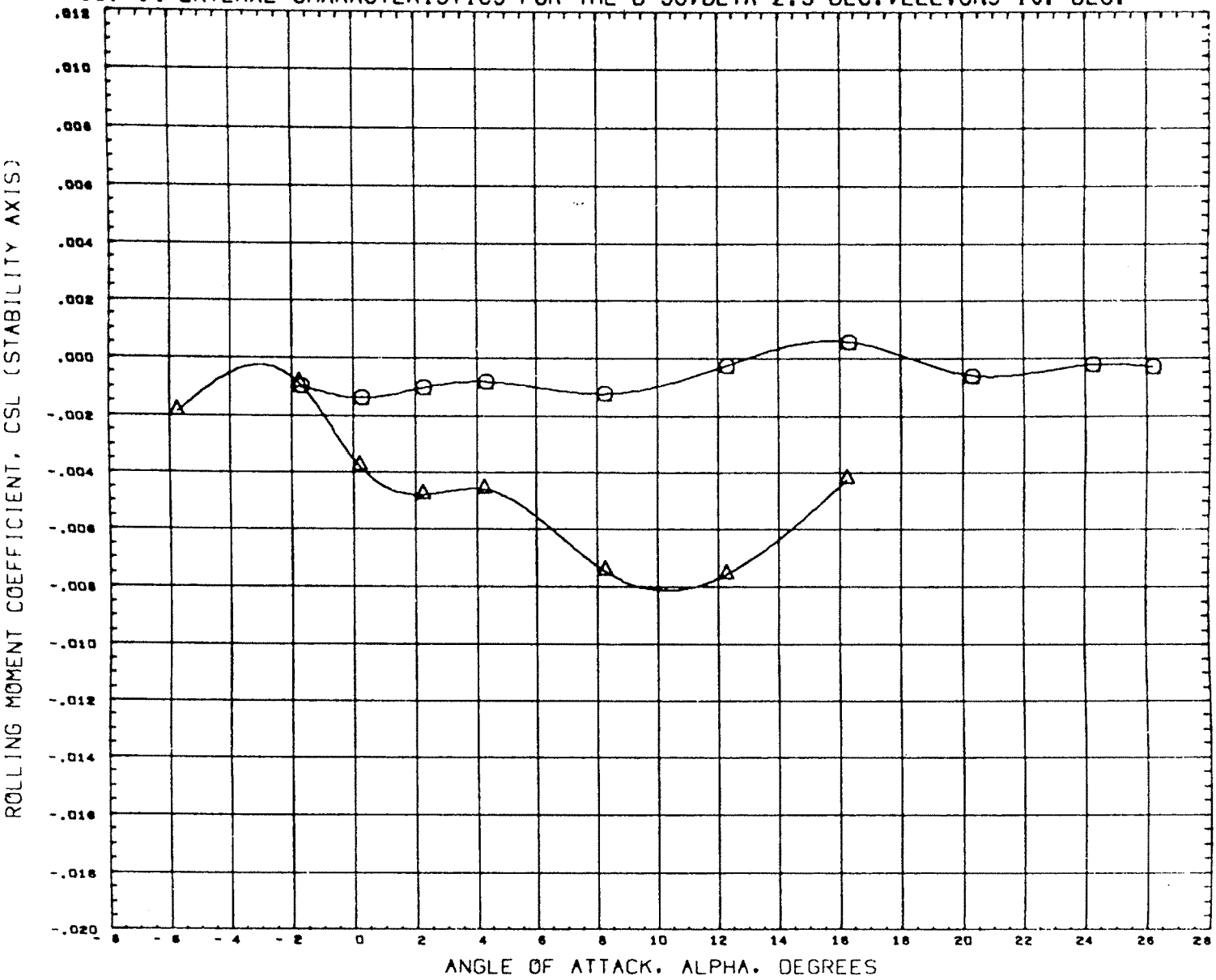
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.612

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

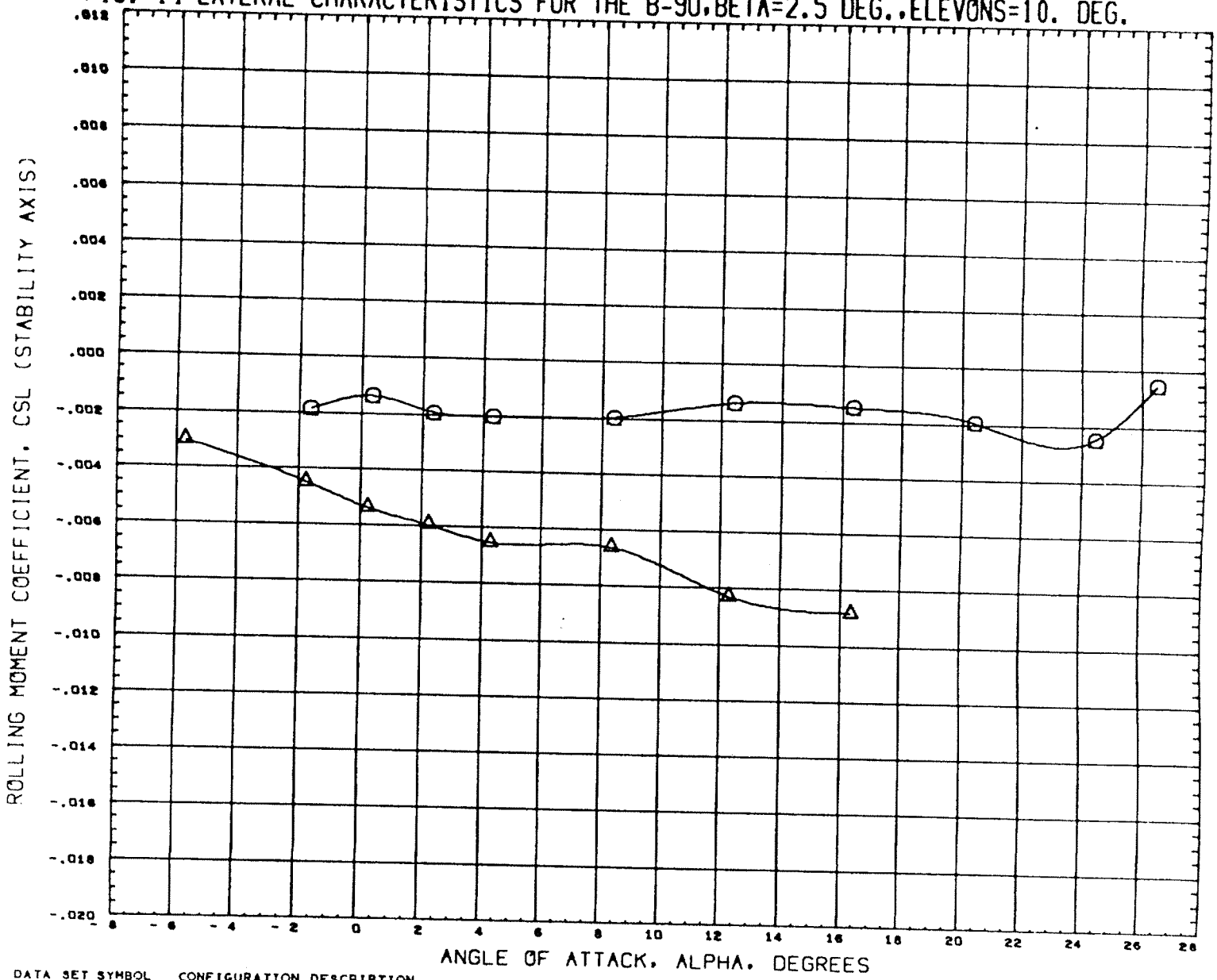


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(D8A254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(D8A154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

MACH 0.913

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA254)	○	AMES 66-563 B22C8W19V10R2
(DBA154)	△	AMES 66-563 B22C8W19V10R2

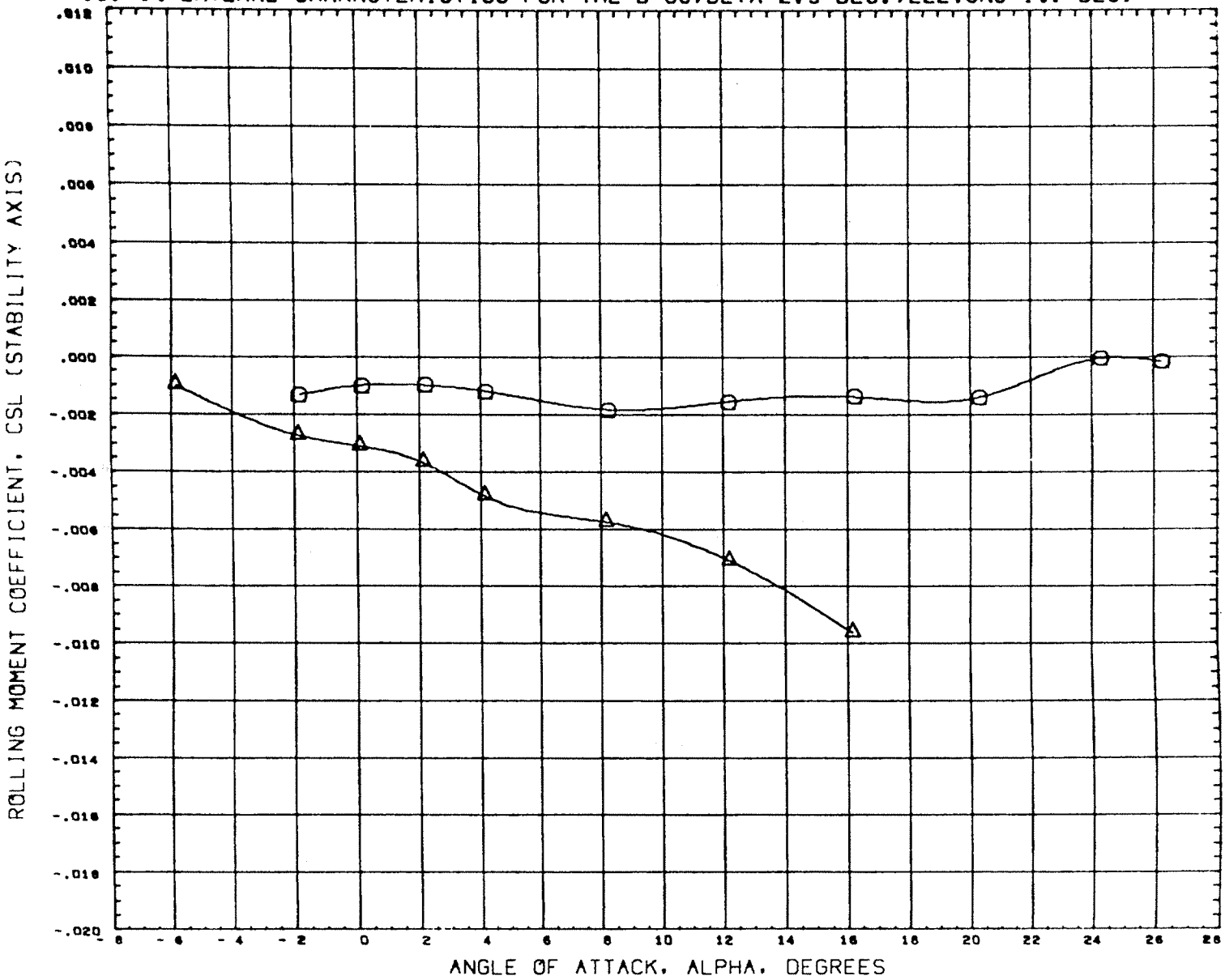
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.205

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.

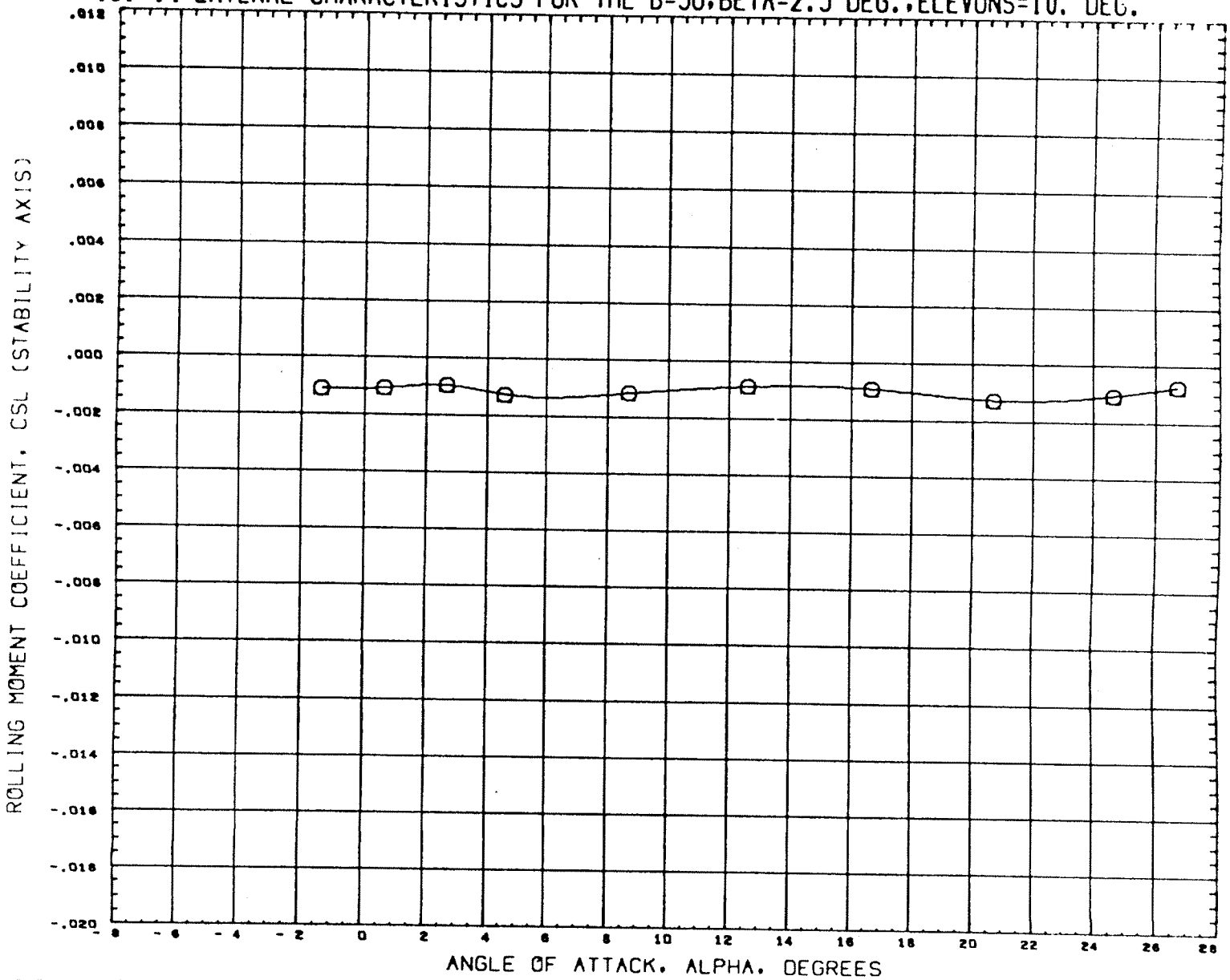


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER
(DBA254)	○	AMES 66-563 B22C8W19V10R2	0.000	10.000	0.000	0.000
(DBA154)	△	AMES 66-563 B22C8W19V10R2	2.500	10.000	0.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.498

FIG. 14 LATERAL CHARACTERISTICS FOR THE B-9U,BETA=2.5 DEG.,ELEVONS=10. DEG.



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(OBA254)	○	AMES 66-563 B22C8W19V10R2
(OBA154)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS

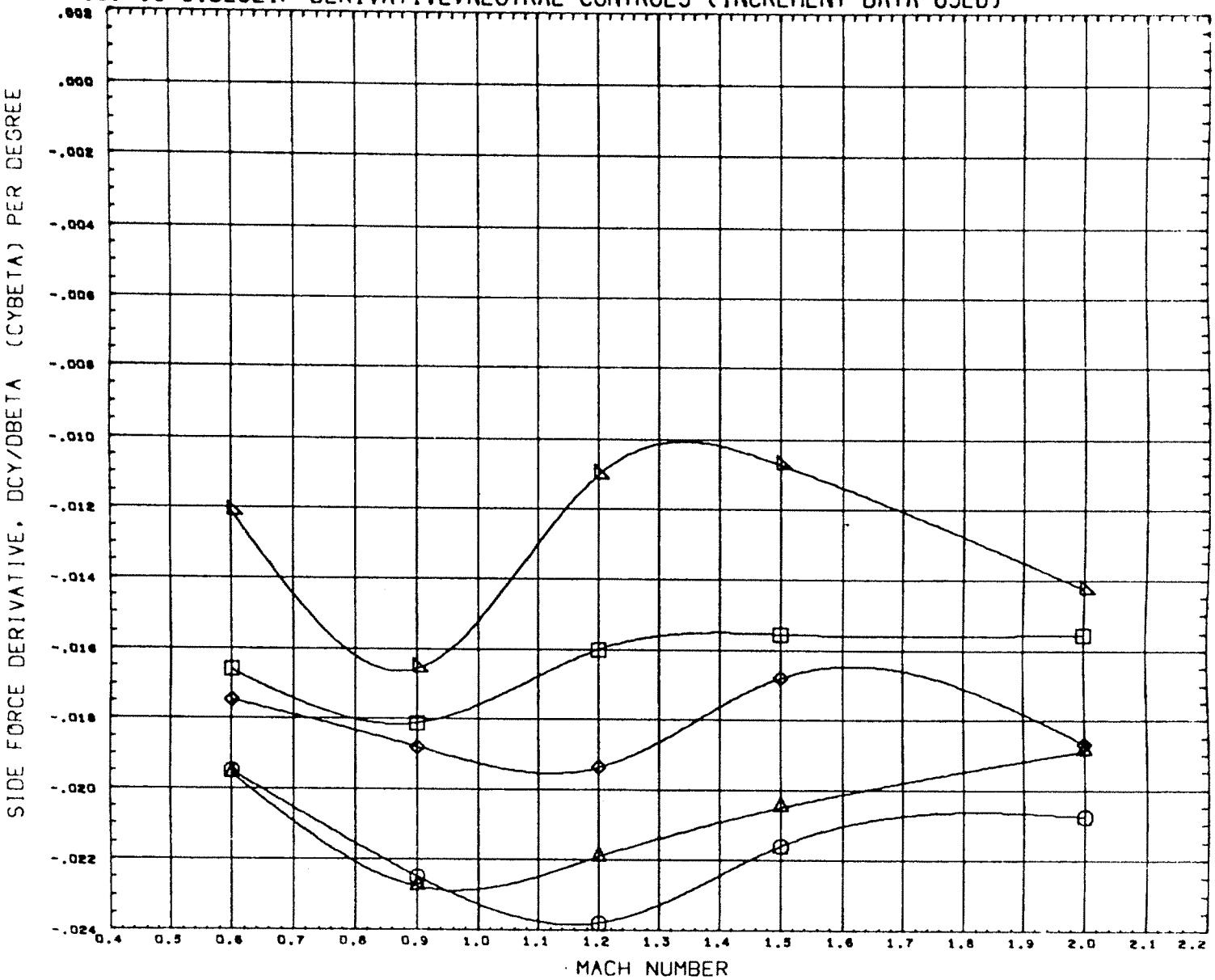
BETA	ELEVTR	AILRON	RUDDER
0.000	10.000	0.000	0.000
2.500	10.000	0.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

MACH 2.002

FIG. 15 SIDESLIP DERIVATIVE, NEUTRAL CONTROLS (INCREMENT DATA USED)



SYMBOL	ALPHA
○	2.000
△	0.000
◇	5.000
□	10.000
▽	15.000

PARAMETRIC VALUES

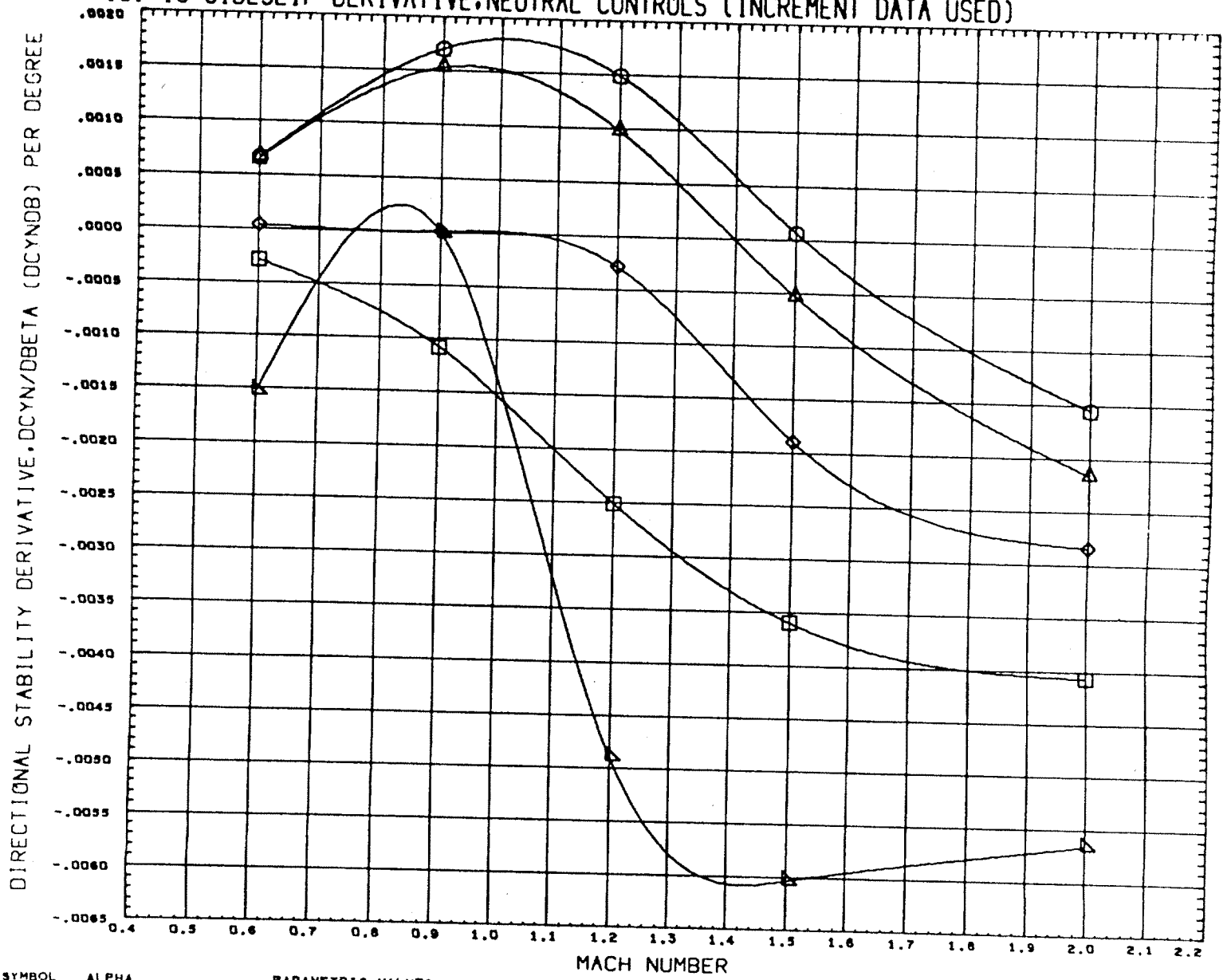
IC	0.000	ELEVTR	0.000
AILRON	0.000	RUDDER	0.000

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 15 SIDESLIP DERIVATIVE, NEUTRAL CONTROLS (INCREMENT DATA USED)



SYMBOL	ALPHA
○	2.000
△	0.000
◇	5.000
□	10.000
◺	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	0.000
AILRON	0.000	RUDDER	0.000

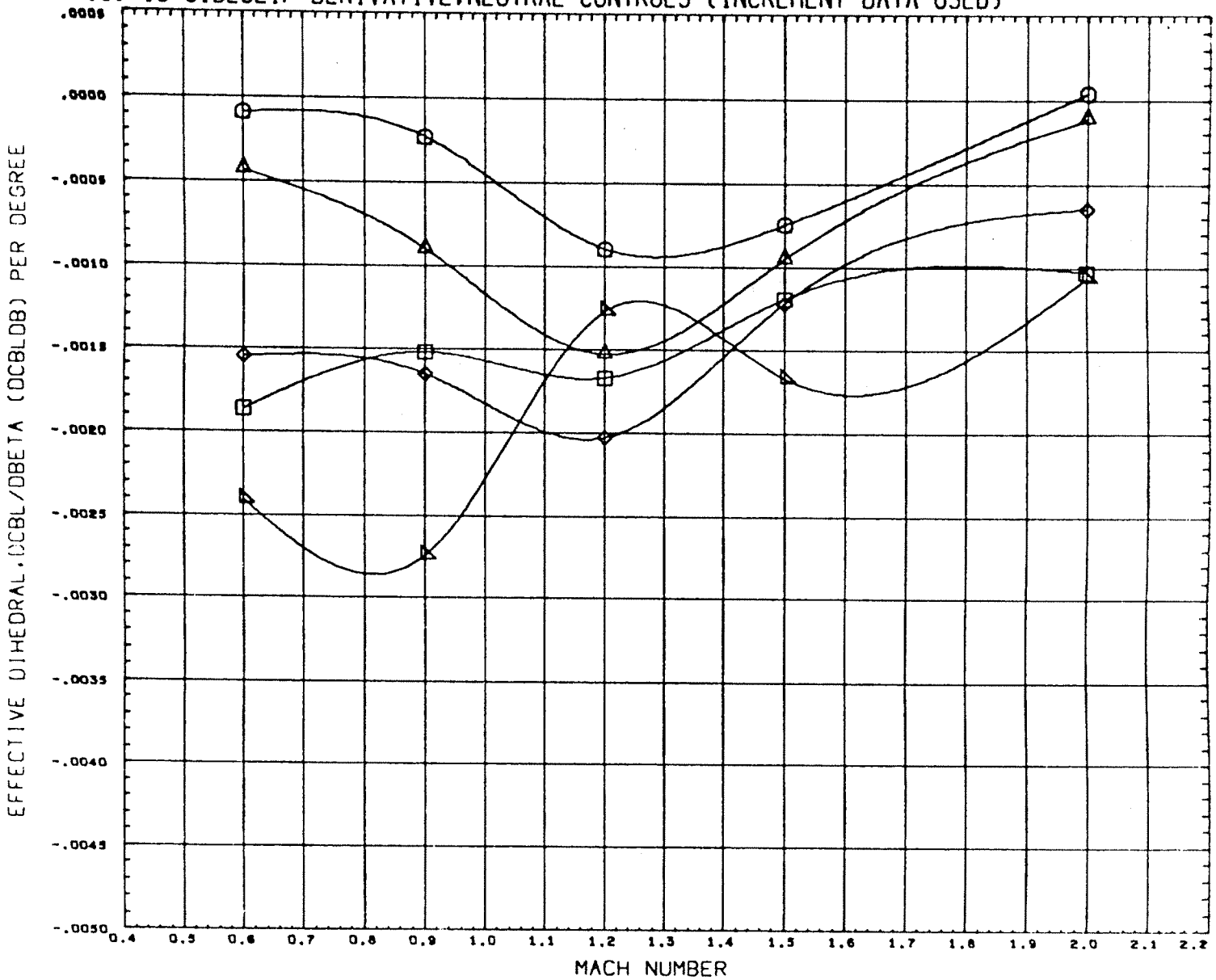
DATA HIST. CODE CC*E1*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA150-RBA250)/DBETA (HBA150) 06 MAY 72 PAGE 317

FIG. 15 SIDESLIP DERIVATIVE, NEUTRAL CONTROLS (INCREMENT DATA USED)



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	- 2.000	IC	0.000	ELEVTR	0.000
△	0.000	AILRON	0.000	RUDDER	0.000
◇	5.000				
□	10.000				
◺	15.000				

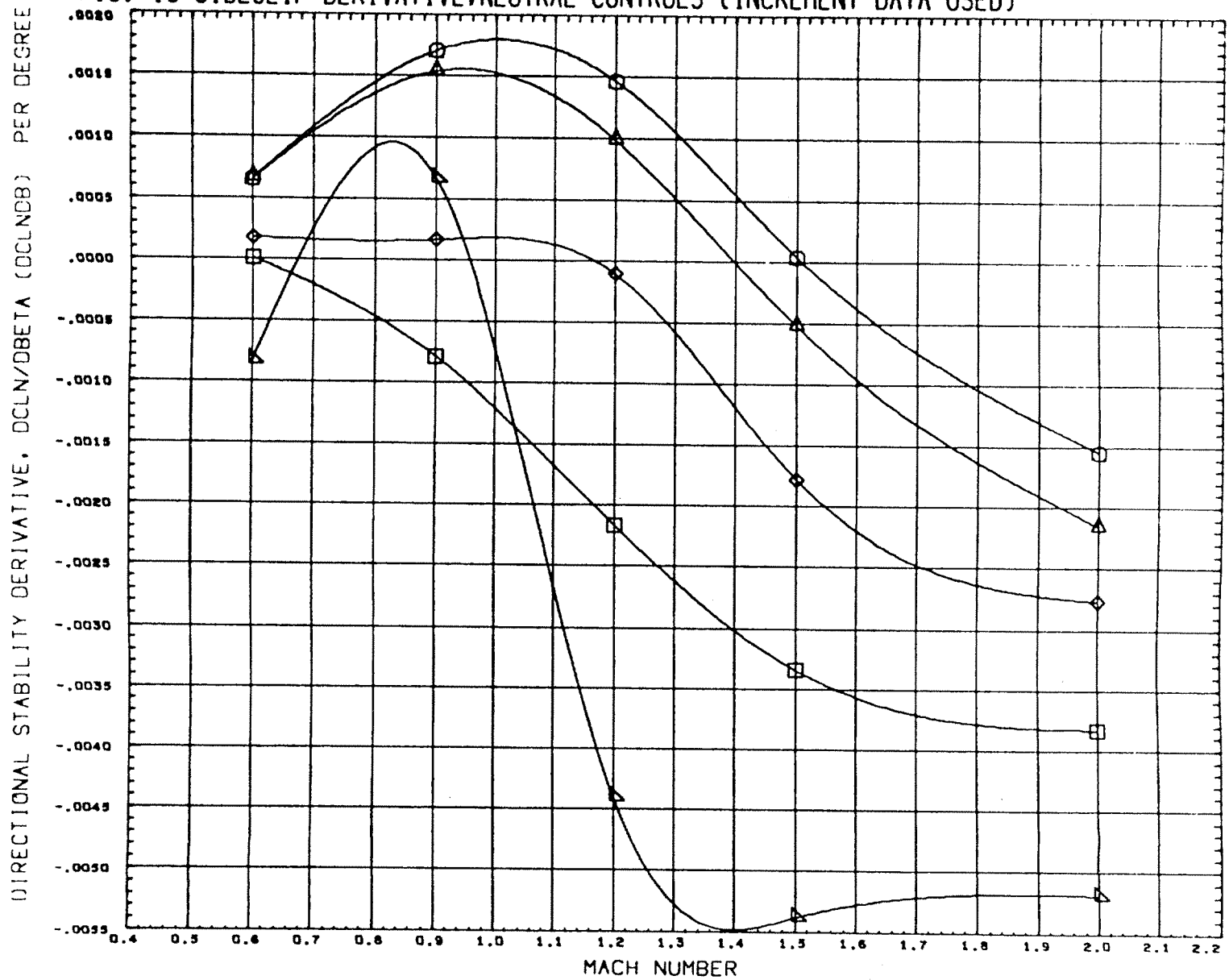
DATA HIST. CODE CC*E1*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA150-RBA250)/DBETA (HBA150) 06 MAY 72 PAGE 318

FIG. 15 SIDESLIP DERIVATIVE, NEUTRAL CONTROLS (INCREMENT DATA USED)



SYMBOL	ALPHA
○	- 2.000
△	0.000
◇	5.000
□	10.000
◺	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	0.000
AILRON	0.000	RUDDER	0.000

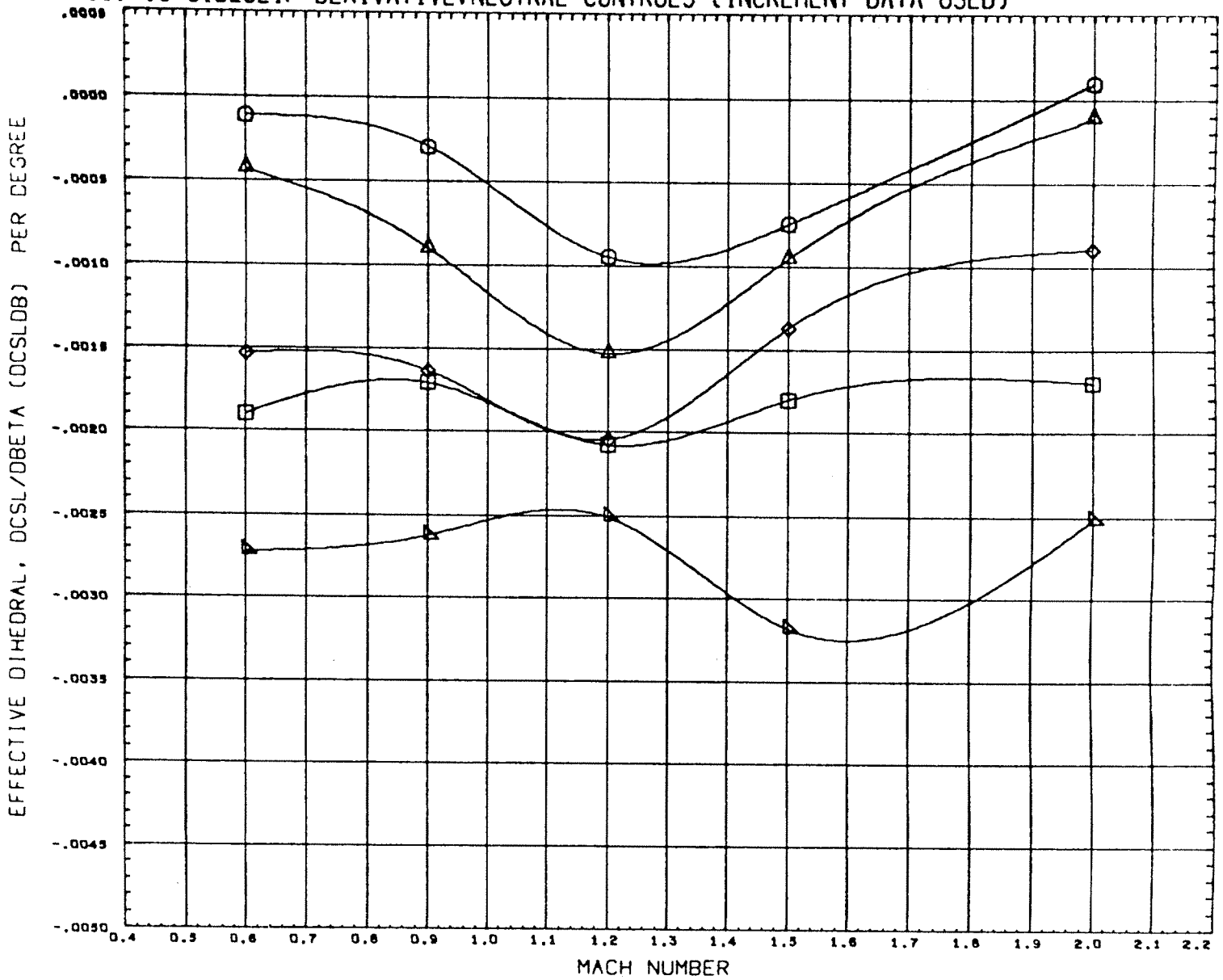
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA150-RBA250)/DBETA (HBA150) 06 MAY 72 PAGE 319

FIG. 15 SIDESLIP DERIVATIVE, NEUTRAL CONTROLS (INCREMENT DATA USED)



SYMBOL	ALPHA	PARAMETRIC VALUES			
	2.000	IC	0.000	ELEVTR	0.000
	0.000	AILRON	0.000	RUDDER	0.000
	5.000				
	10.000				
	15.000				

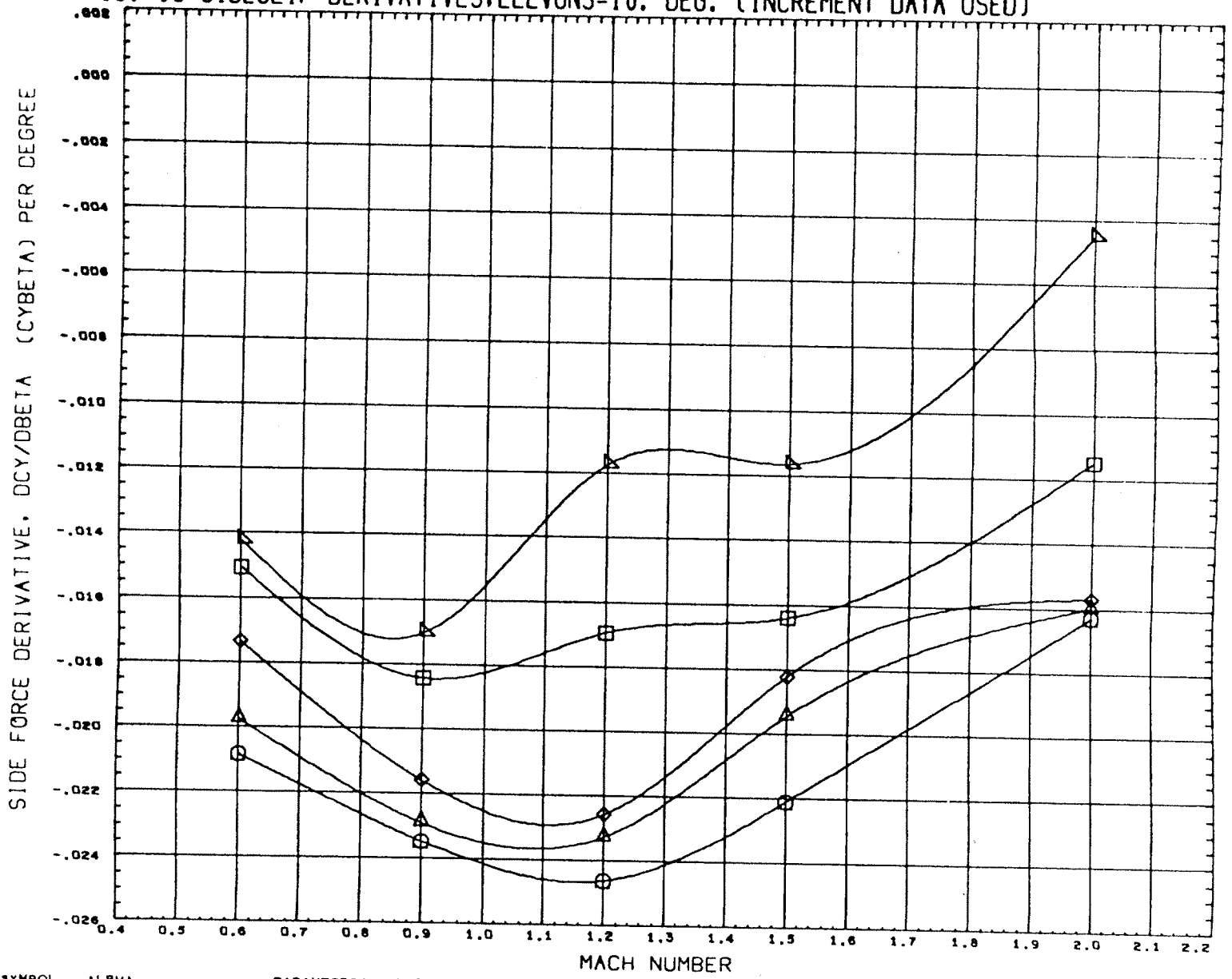
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA150-RBA250)/DBETA (HBA150) 06 MAY 72 PAGE 320

FIG. 16 SIDESLIP DERIVATIVES,ELEVONS=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	2.000	IC	0.000	ELEVTR	10.000
△	0.000	AILRON	0.000	RUDDER	0.000
◇	5.000				
□	10.000				
	15.000				

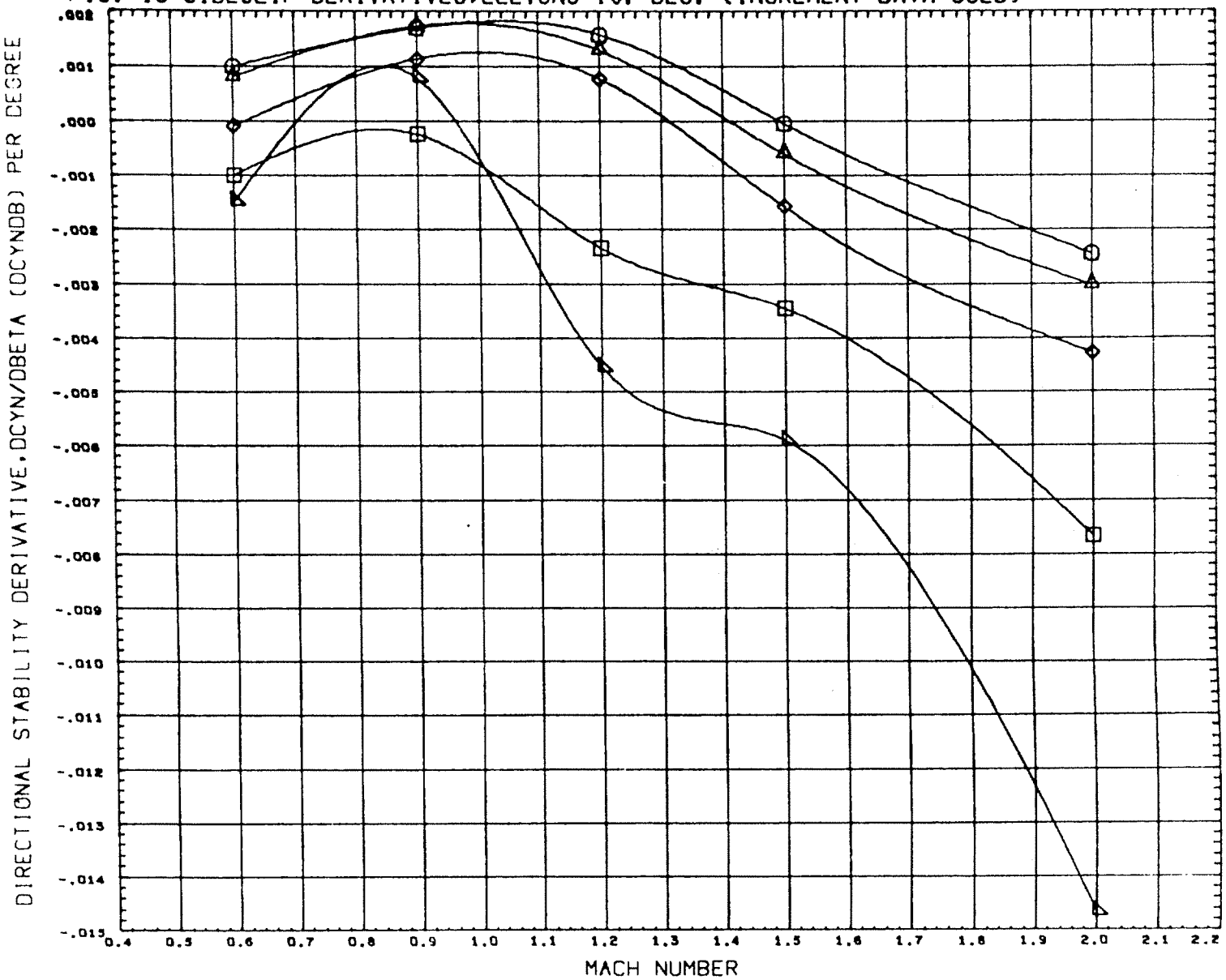
DATA HIST. CODE CC*A*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA154-RBA254)/DBETA (HBA154) 06 MAY 72 PAGE 321

FIG. 16 SIDESLIP DERIVATIVES,ELEVONS=10. DEG. (INCREMENT DATA USED)



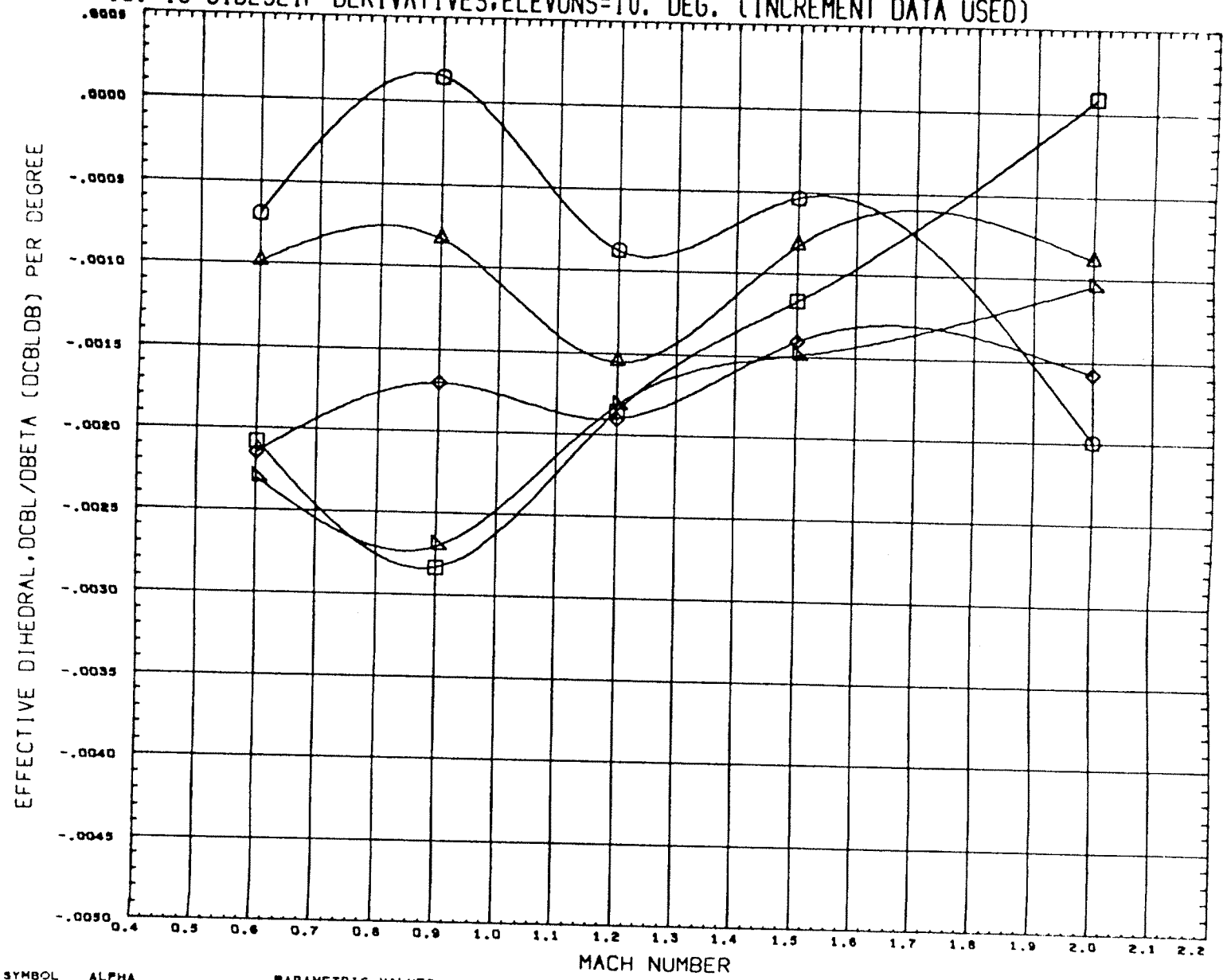
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	2.000	IC	0.000	ELEVTR	10.000
△	0.000	AILRON	0.000	RUDDER	0.000
◇	5.000				
□	10.000				
◺	15.000				

DATA HIST. CODE CC*A*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 16 SIDESLIP DERIVATIVES,ELEVONS=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA
○	- 2.000
△	0.000
◇	5.000
□	10.000
⊠	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	10.000
AILRON	0.000	RUDDER	0.000

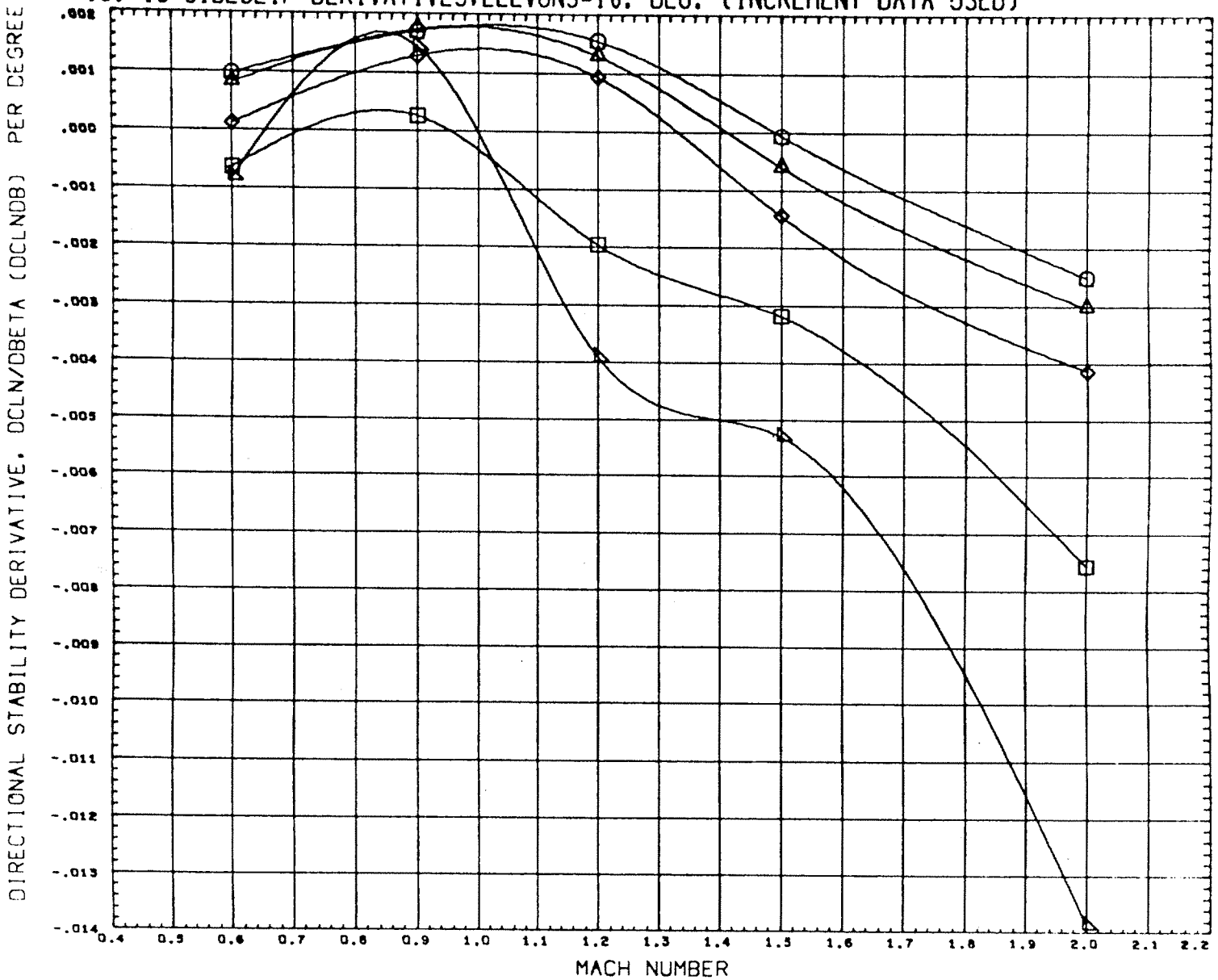
DATA HIST. CODE CC*A*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA154-RBA254)/DBETA (HBA154) 06 MAY 72

FIG. 16 SIDESLIP DERIVATIVES,ELEVONS=10. DEG. (INCREMENT DATA USED)



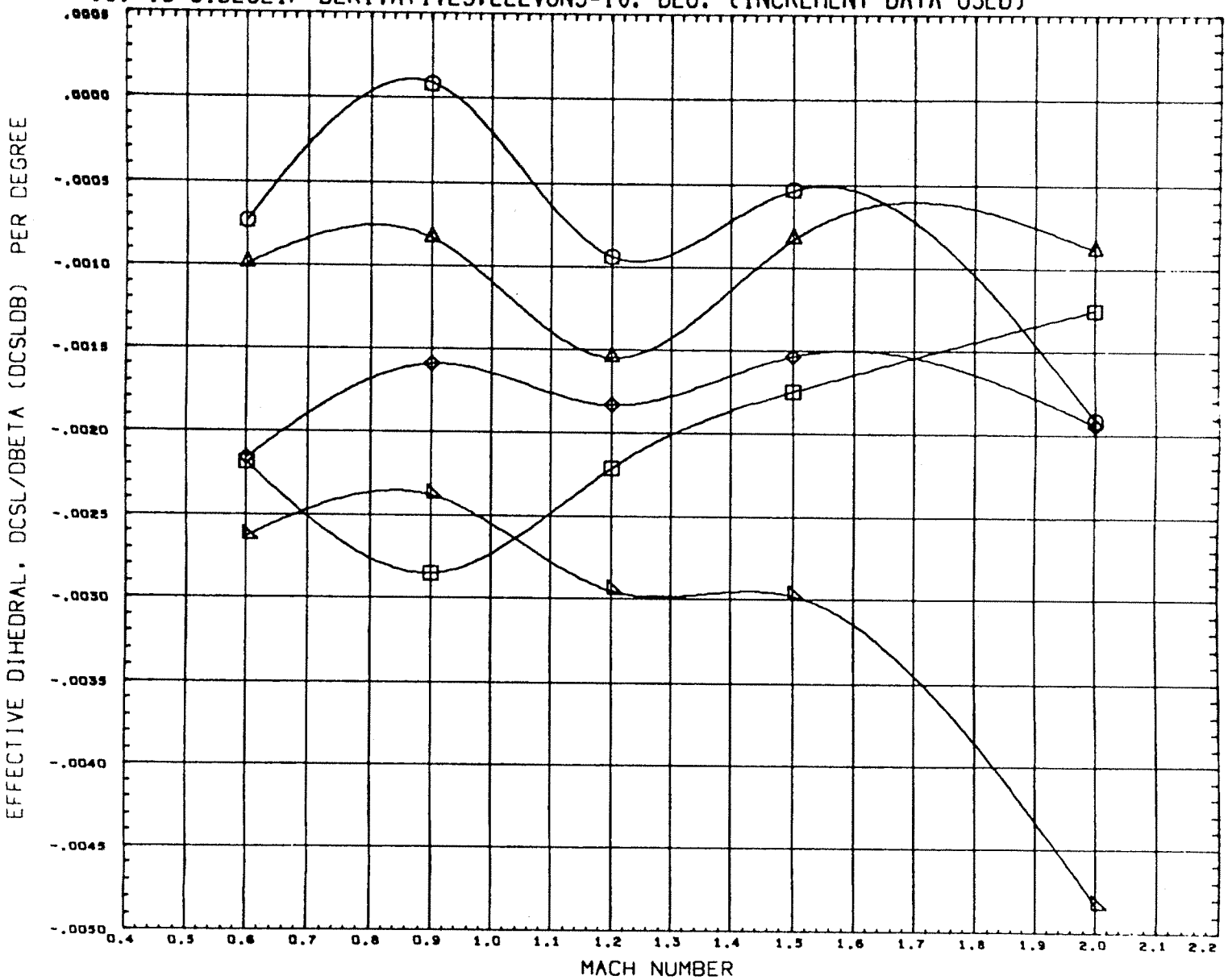
SYMBOL	ALPHA		PARAMETRIC VALUES		
○	2.000	IC	0.000	ELEVTR	10.000
△	0.000	AILRON	0.000	RUDDER	0.000
◇	5.000				
□	10.000				
⊠	15.000				

DATA HIST. CODE CC*A*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 16 SIDESLIP DERIVATIVES,ELEVØNS=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA
○	2.000
△	0.000
◇	5.000
□	10.000
◺	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	10.000
AILRON	0.000	RUDDER	0.000

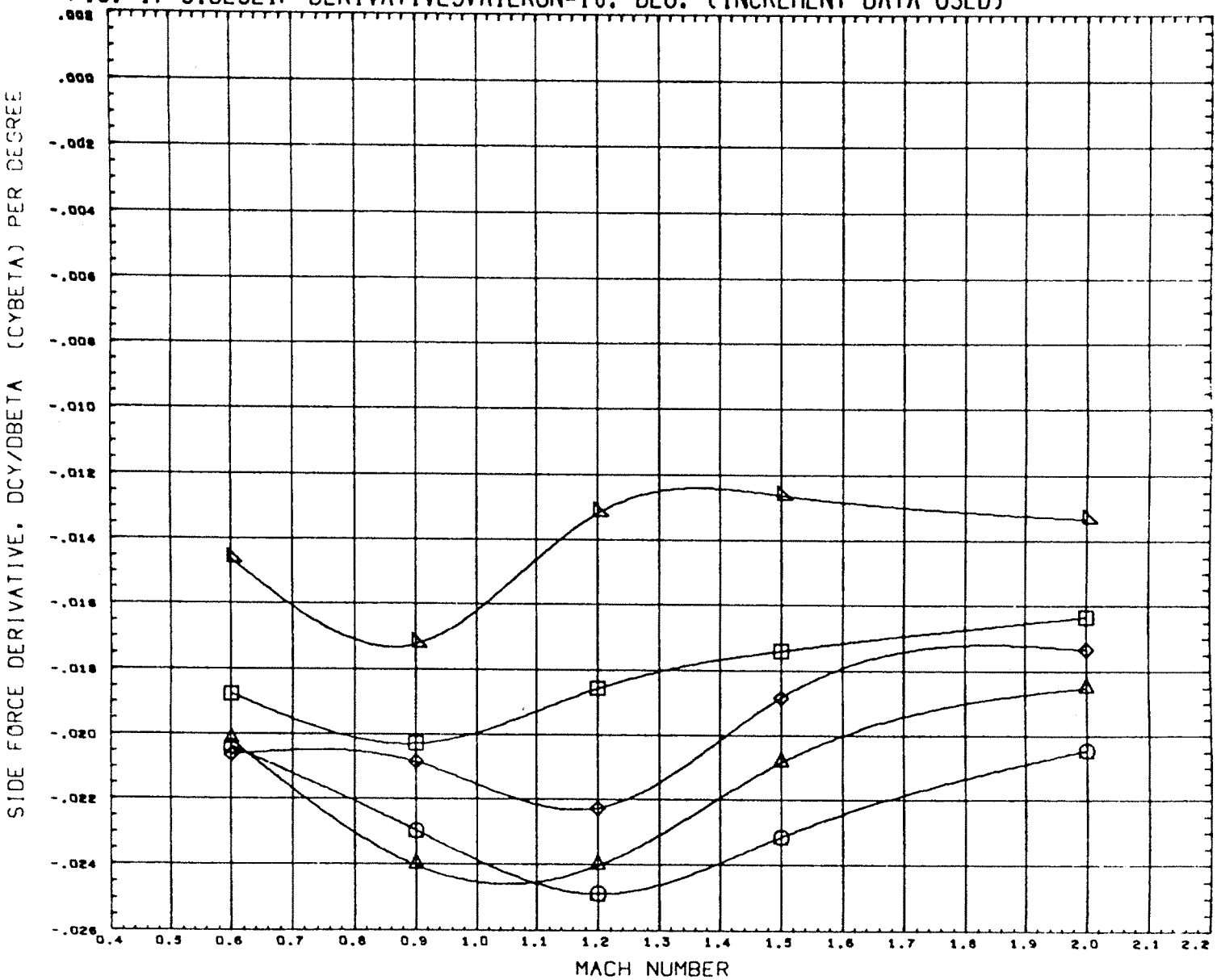
DATA HIST. CODE CC*A*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA154-RBA254)/DBETA (HBA154) 06 MAY 72 PAGE 325

FIG. 17 SIDESLIP DERIVATIVES, AILRON=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	- 2.000	IC	0.000	ELEVTR	0.000
△	0.000	AILRON	10.000	RUDDER	0.000
◇	5.000				
□	10.000				
◺	15.000				

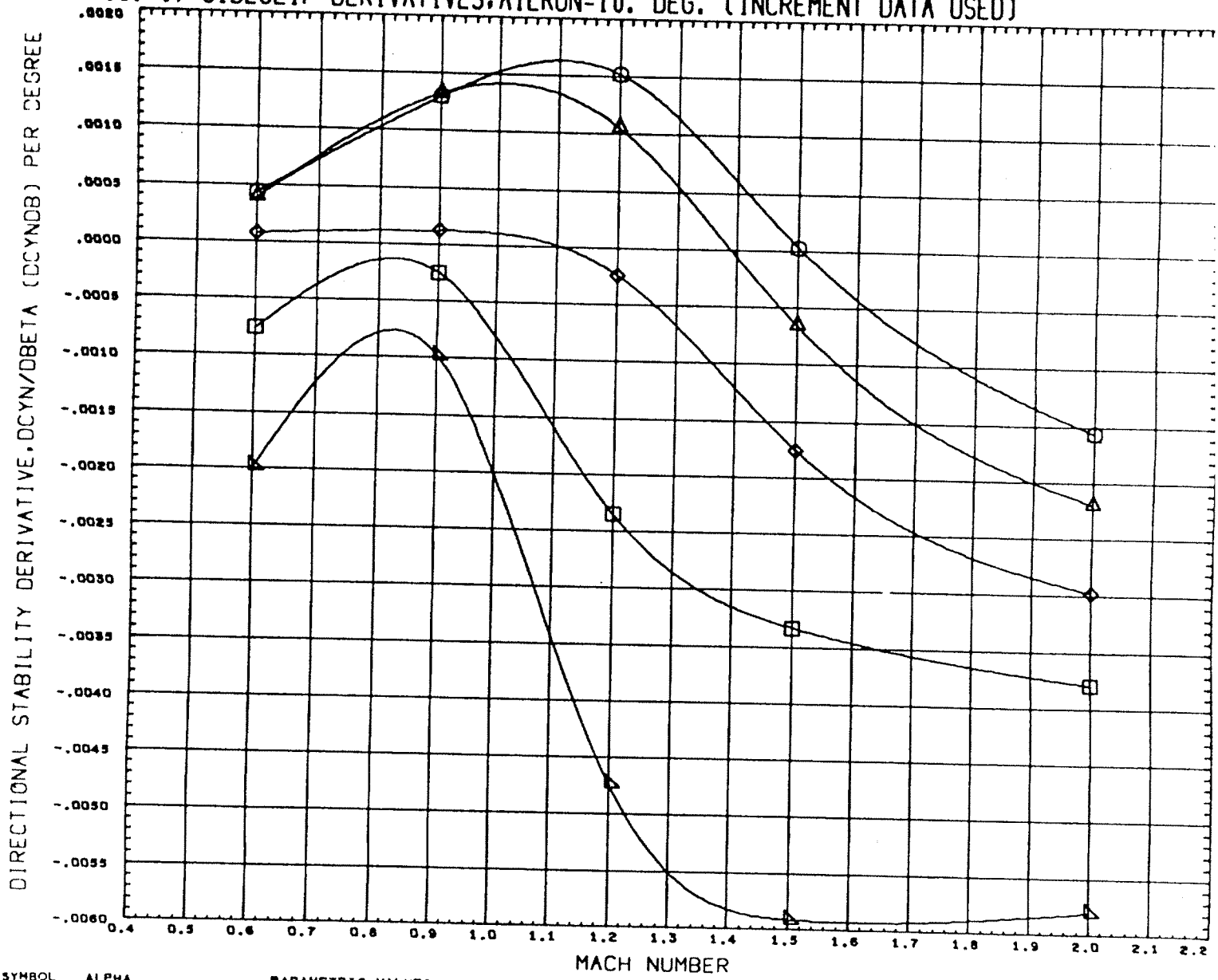
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA158-RBA258)/DBETA (HBA158) 06 MAY 72 PAGE 326

FIG. 17 SIDESLIP DERIVATIVES,AILRON=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA
○	2.000
△	0.000
◇	5.000
□	10.000
◺	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	0.000
AILRON	10.000	RUDDER	0.000

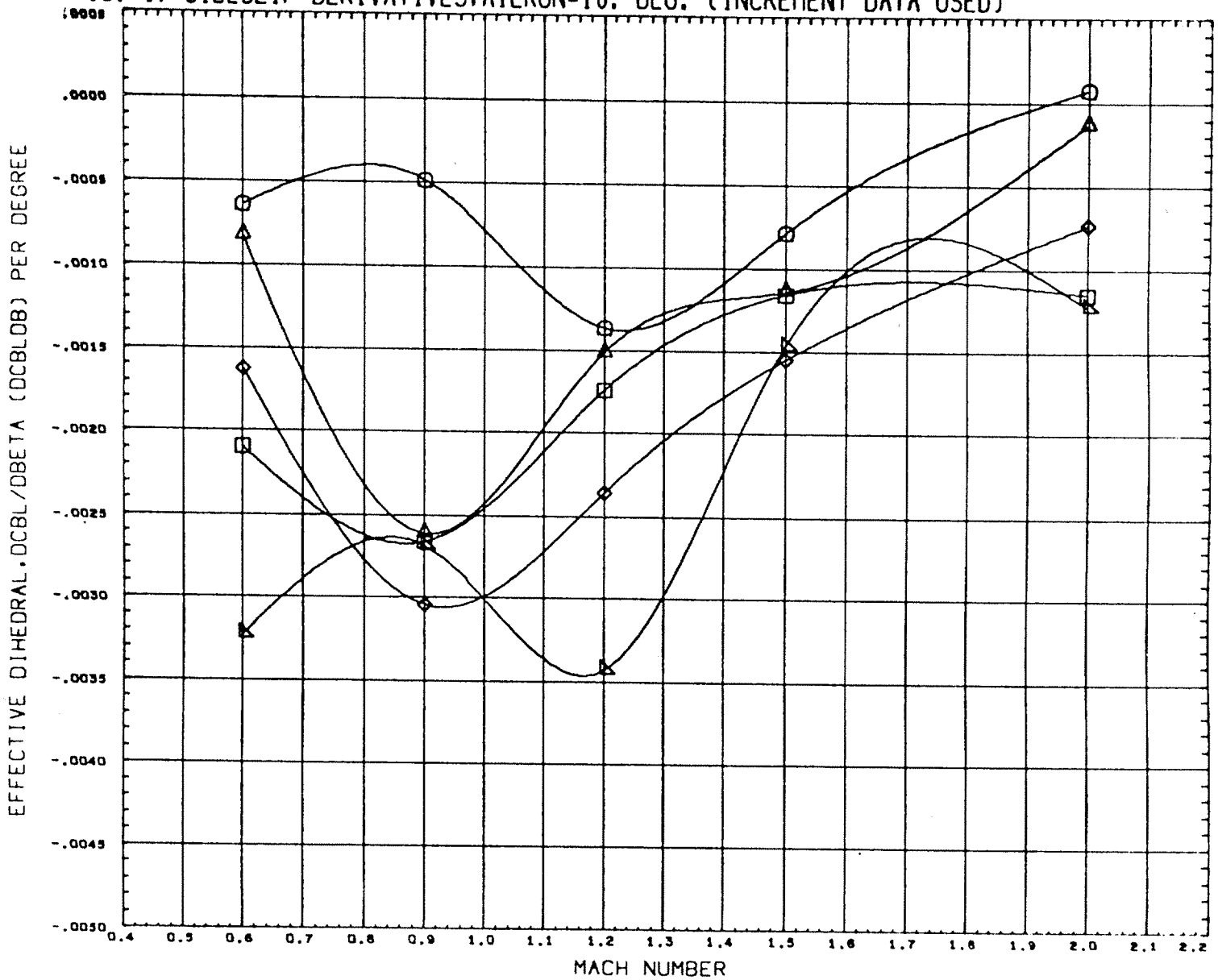
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA158-RBA258)/DBETA (HBA158) 06 MAY 72 PAGE 327

FIG. 17 SIDESLIP DERIVATIVES, AILRON=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA	PARAMETRIC VALUES			
○	2.000	IC	0.000	ELEVTR	0.000
△	0.000	AILRON	10.000	RUDDER	0.000
◇	5.000				
□	10.000				
◺	15.000				

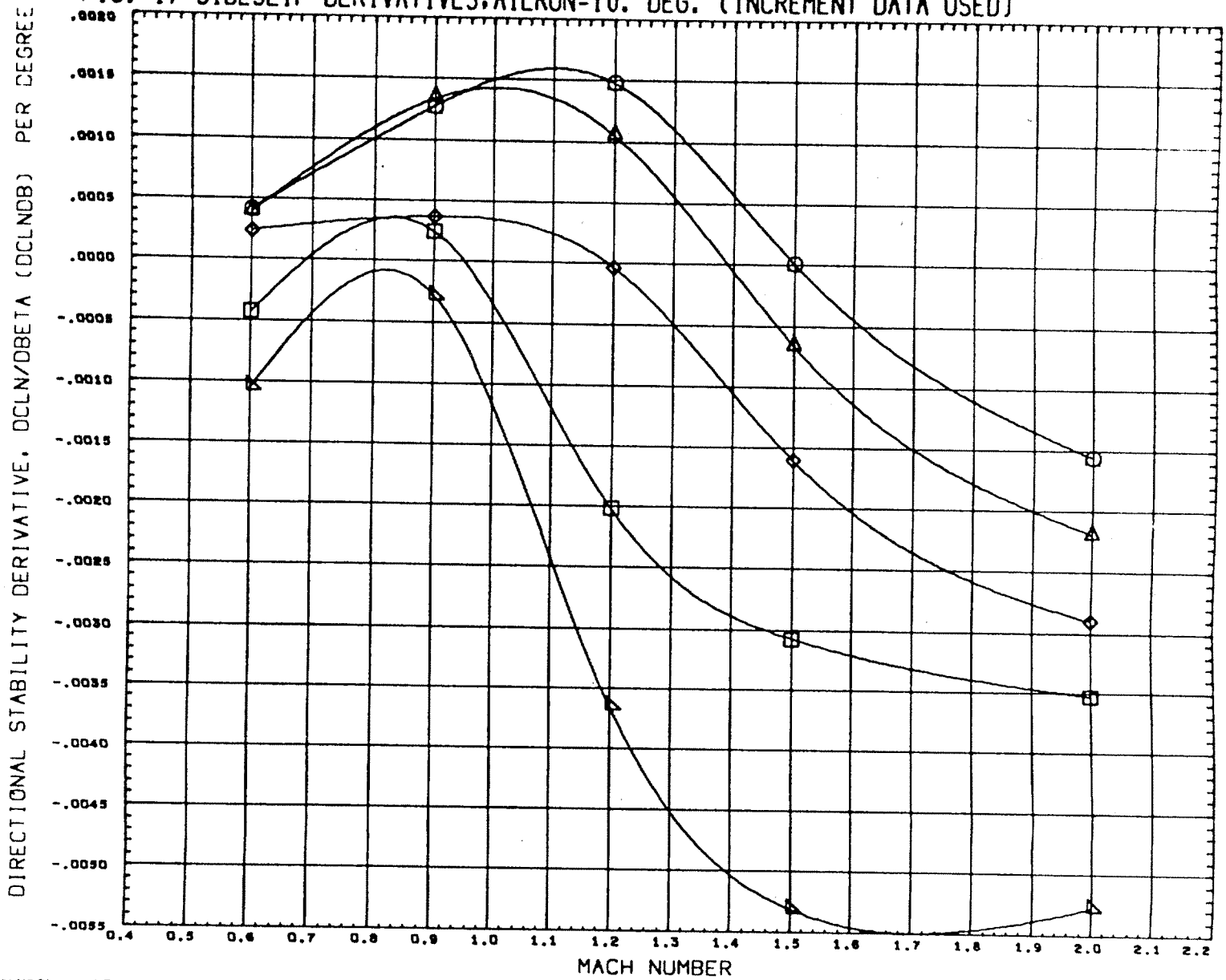
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA158-RBA258)/DBETA (HBA158) 06 MAY 72 PAGE 328

FIG. 17 SIDESLIP DERIVATIVES, AILRON=10. DEG. (INCREMENT DATA USED)



SYMBOL	ALPHA
○	- 2.000
△	0.000
◇	5.000
□	10.000
◺	15.000

PARAMETRIC VALUES

IC	0.000	ELEVTR	0.000
AILRON	10.000	RUDDER	0.000

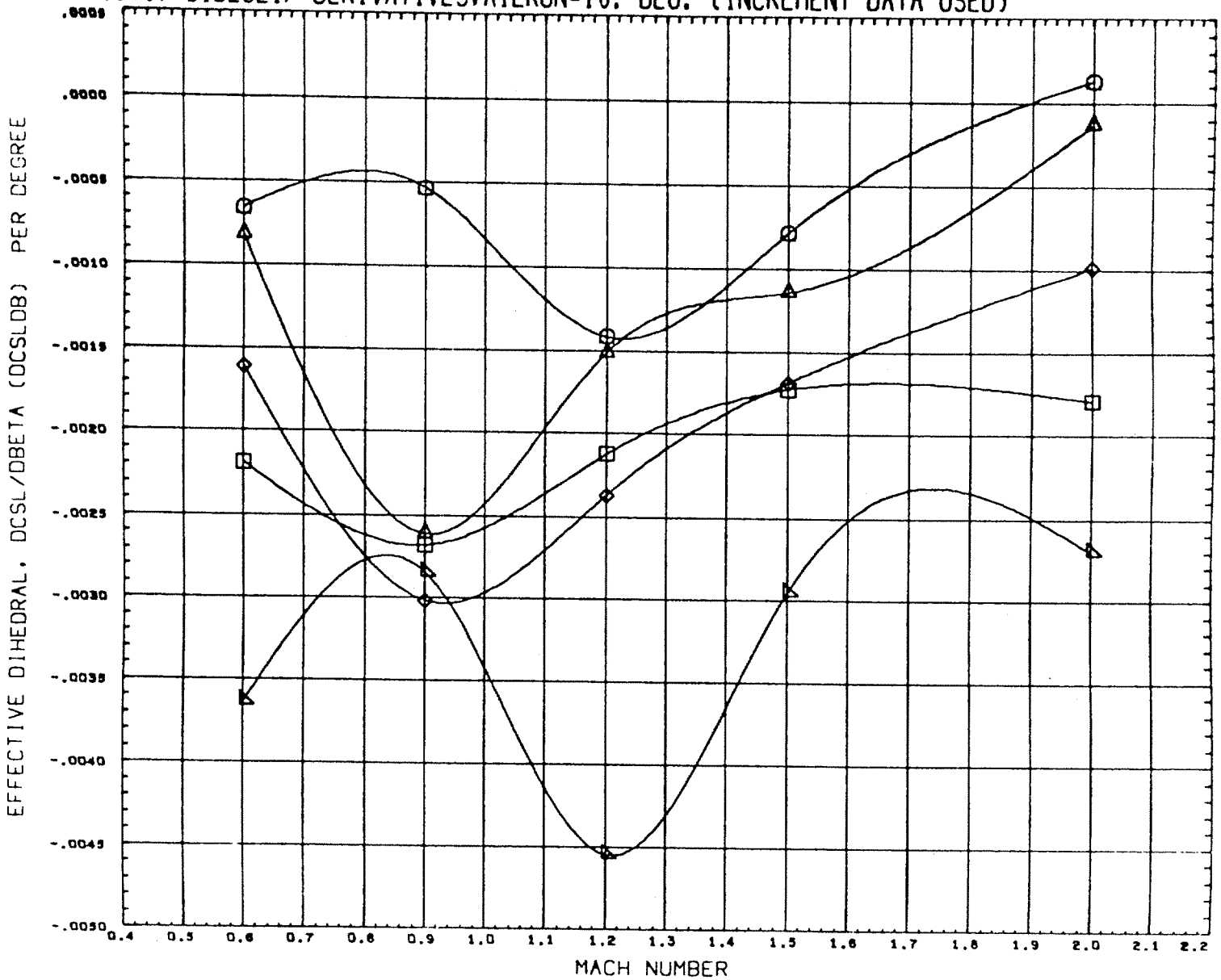
DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

AMES 66-563 B22C8W19V10R2 (RBA158-RBA258)/DBETA (HBA158) 06 MAY 72 PAGE 329

FIG. 17 SIDESLIP DERIVATIVES, AILRON=10. DEG. (INCREMENT DATA USED)



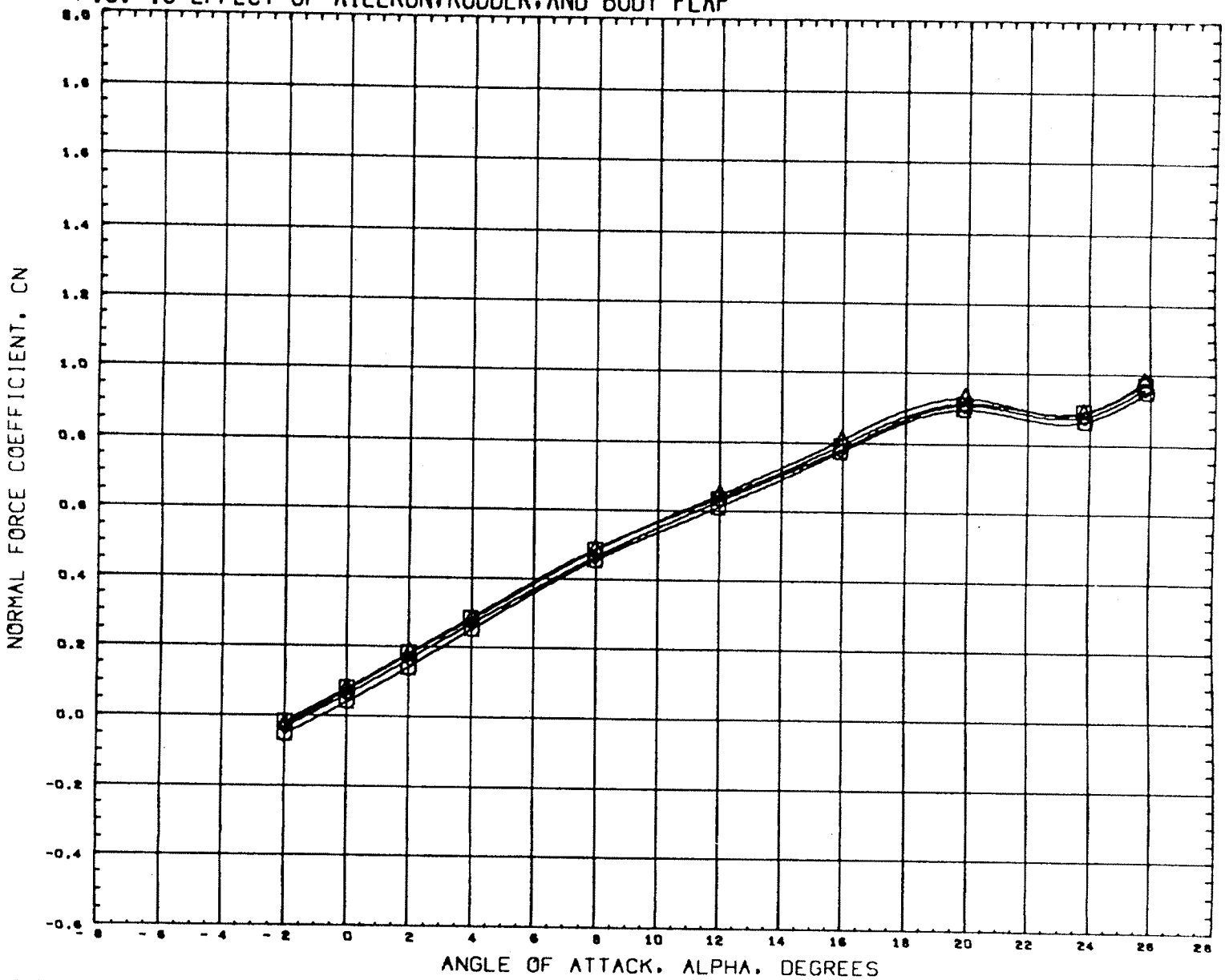
SYMBOL	ALPHA	PARAMETRIC VALUES			
○	2.000	IC	0.000	ELEVTR	0.000
△	0.000	AILRON	10.000	RUDDER	0.000
◇	5.000				
□	10.000				
◺	15.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA258)	△	AMES 66-563 B22C8W19V10R2
(CBA259)	◇	AMES 66-563 B22C8W19V10R2
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L

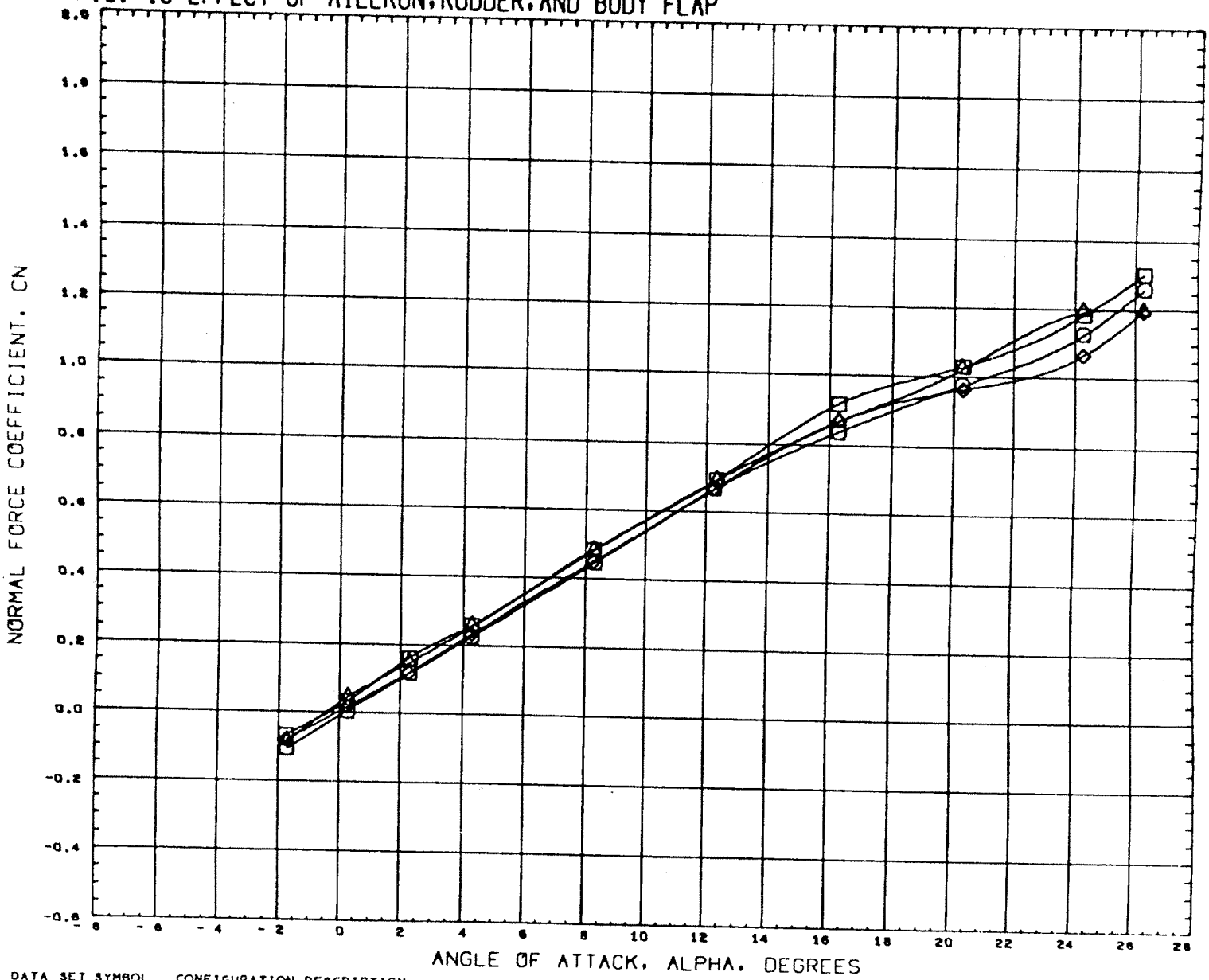
MACH 0.611

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



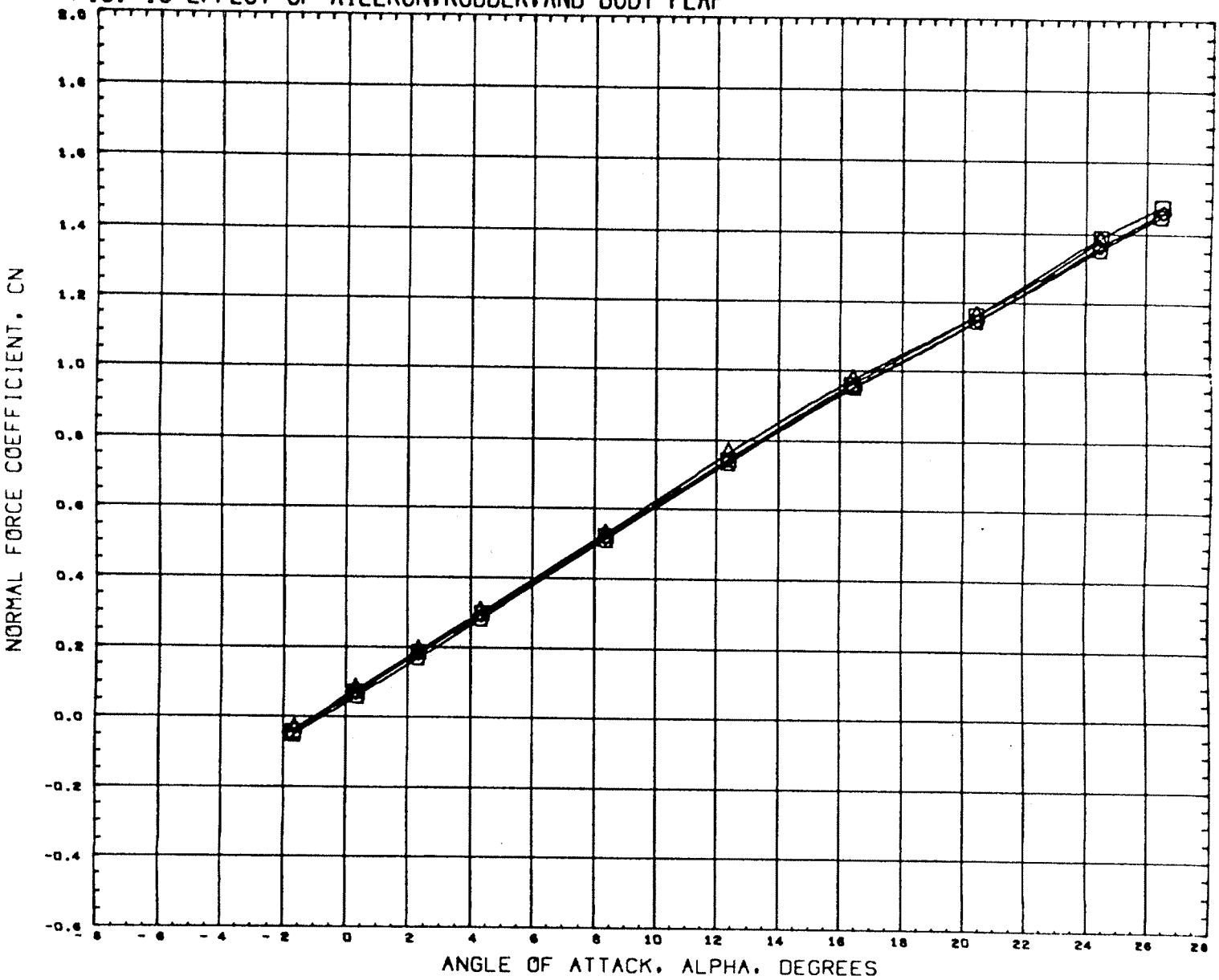
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA258)	△	AMES 66-563 B22C8W19V10R2
(CBA259)	◇	AMES 66-563 B22C8W19V10R2
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L

MACH 0.912

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

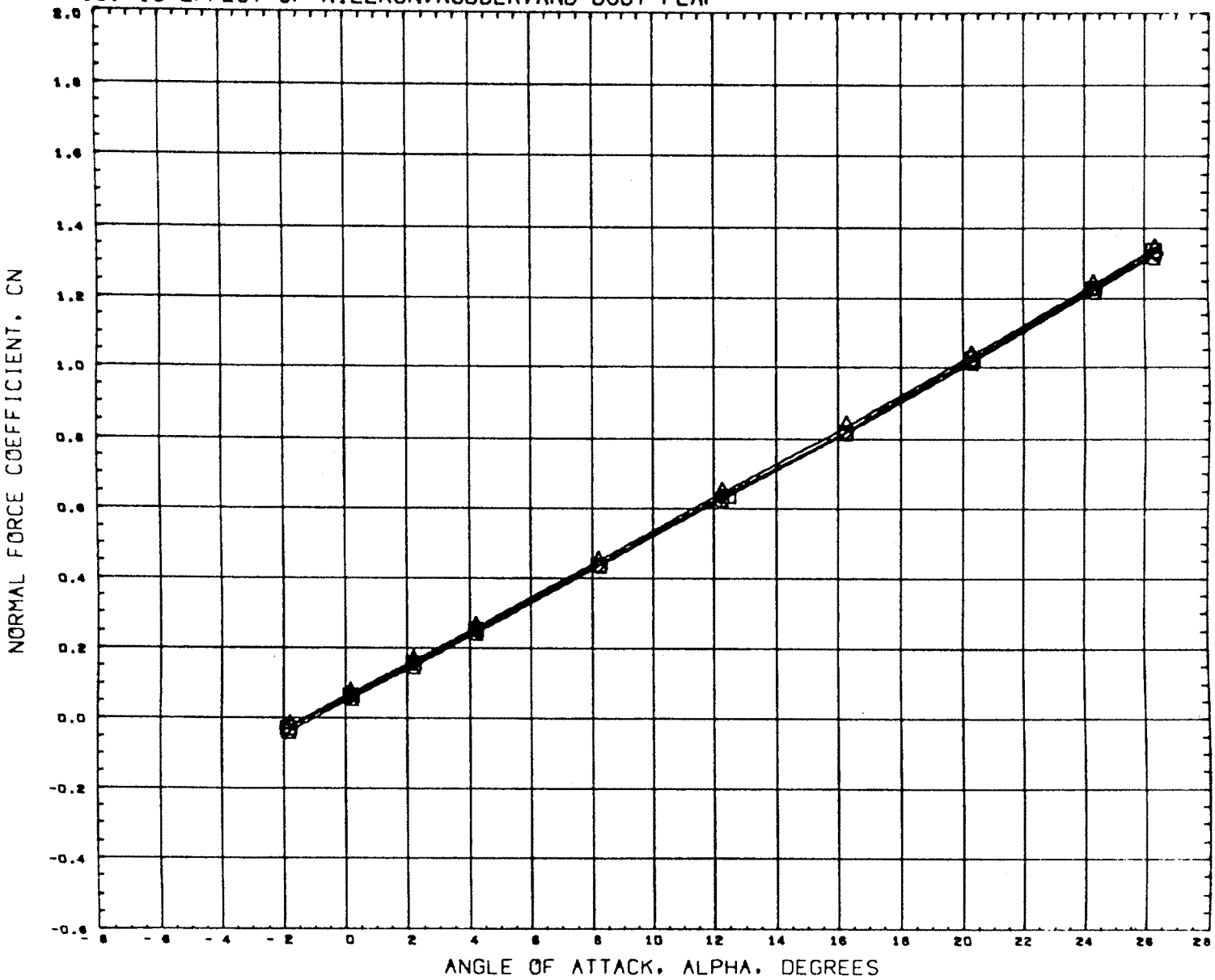


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBAZ58)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBAZ59)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBAZ60)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

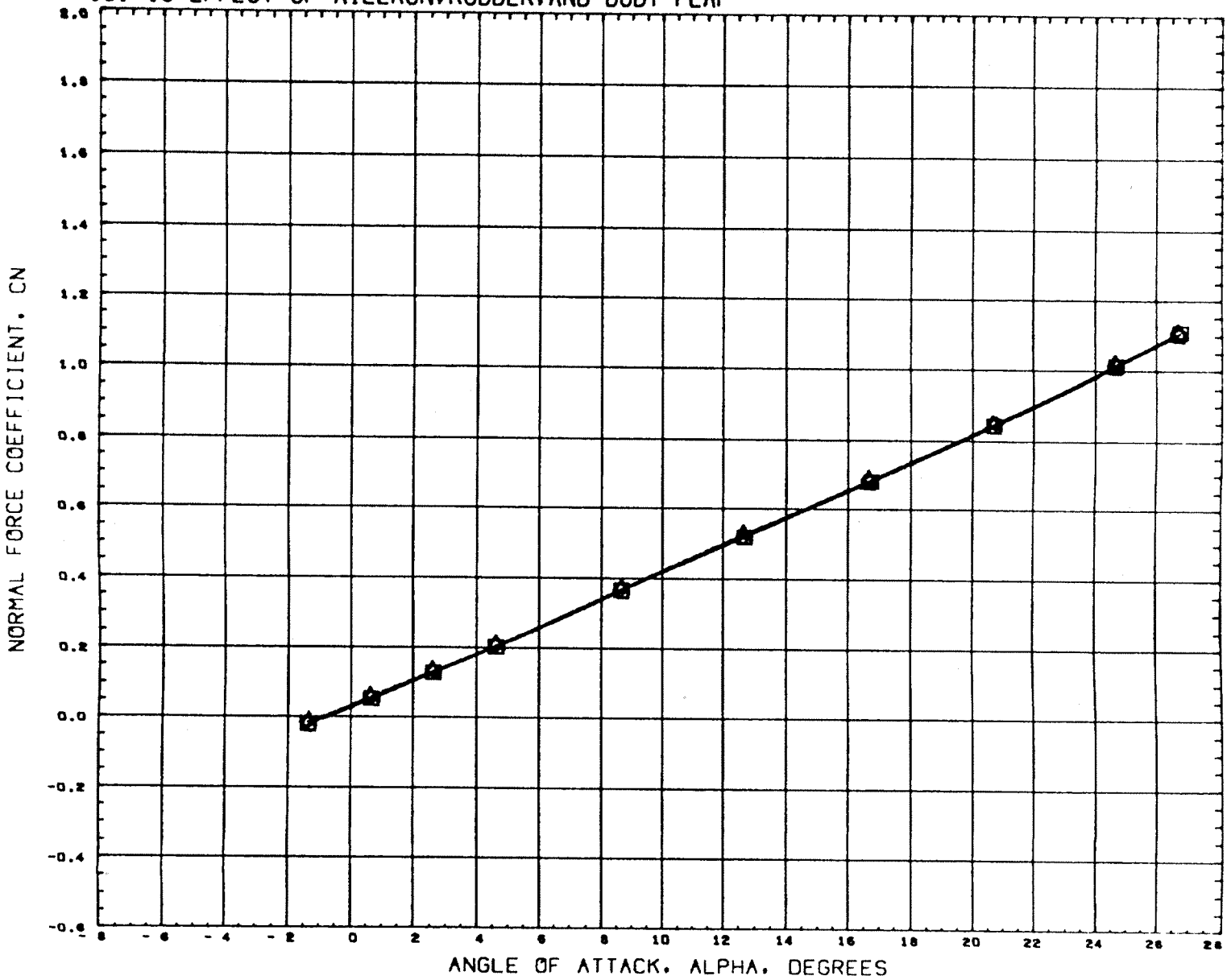


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA256)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

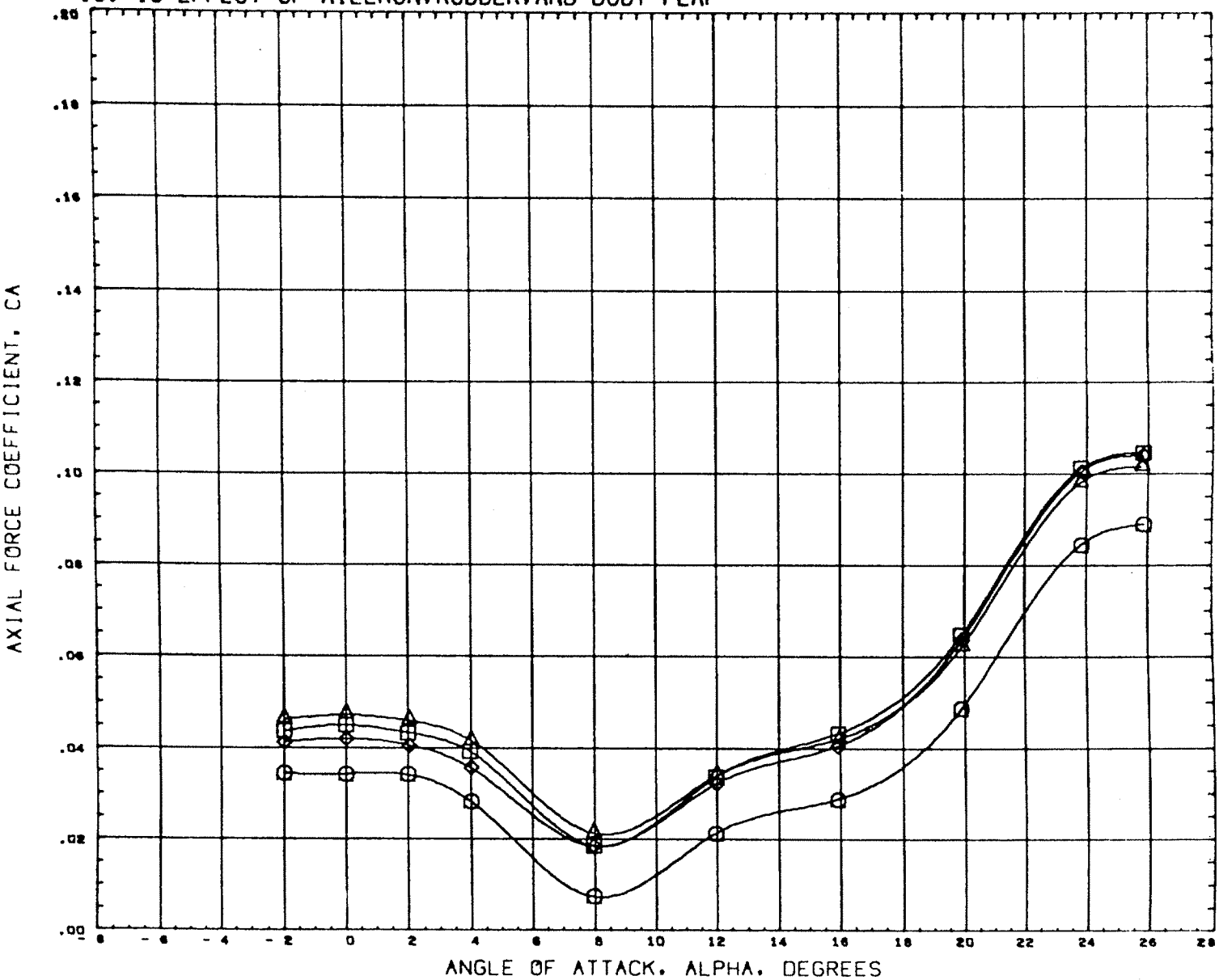


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

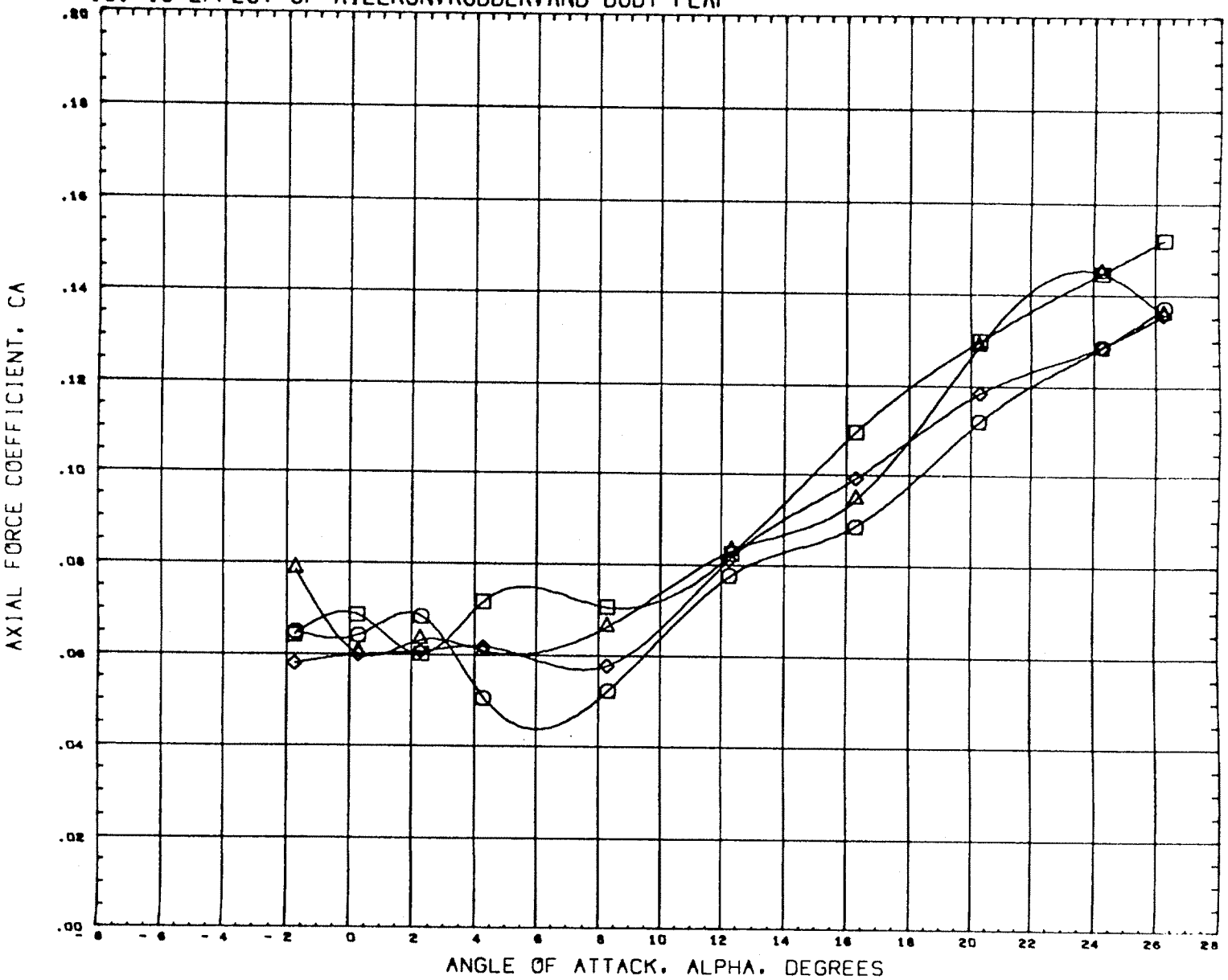


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

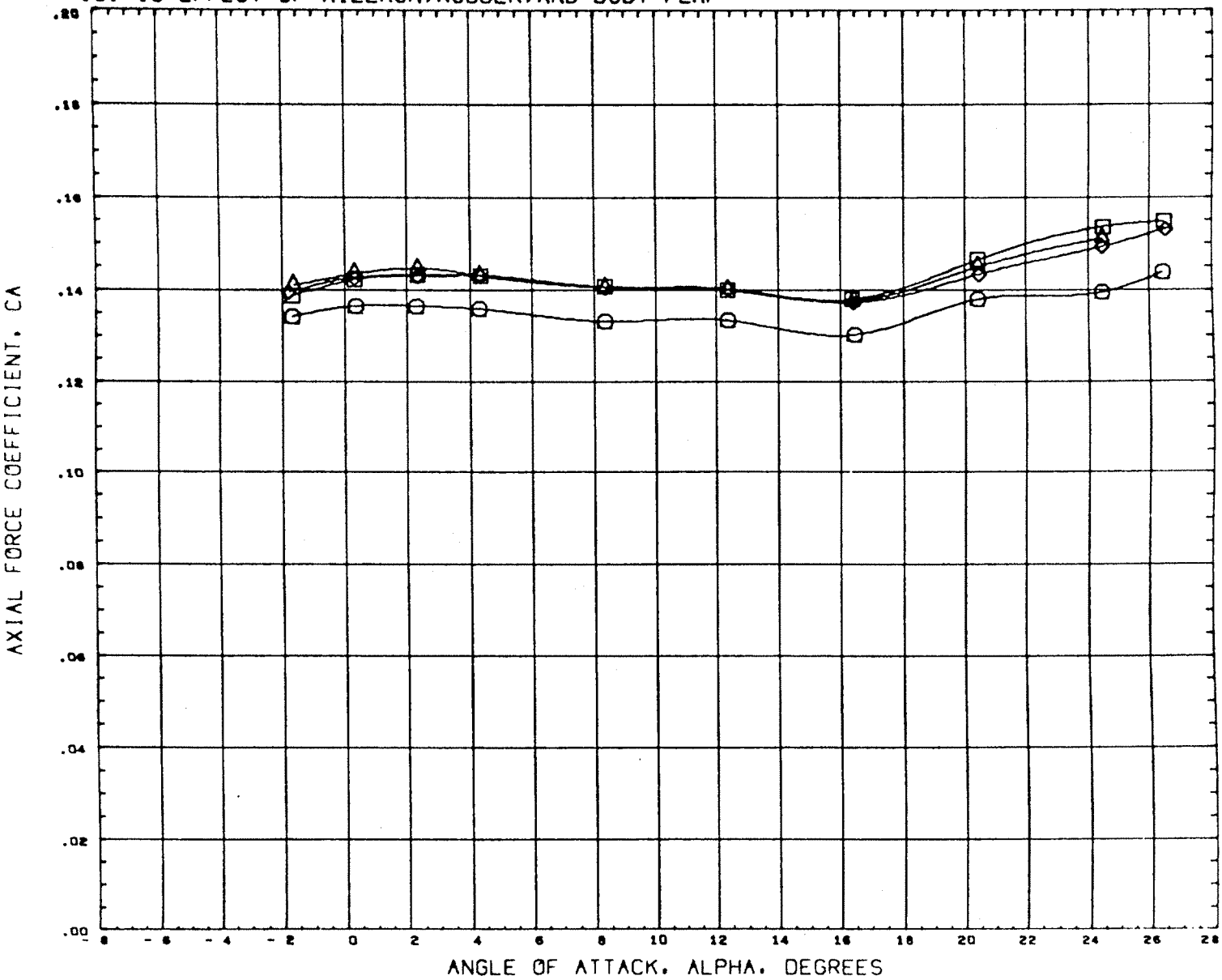


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

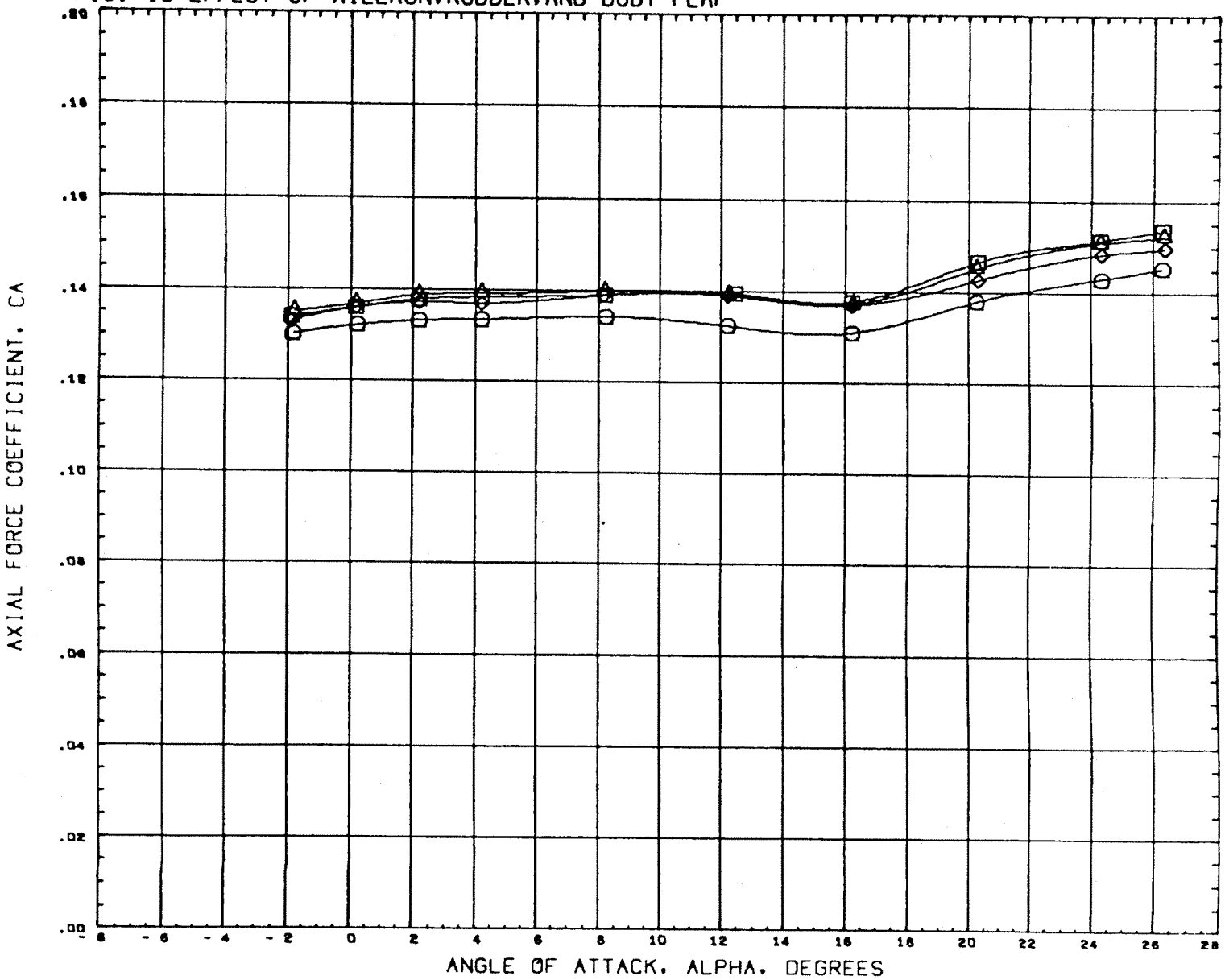


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8180	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



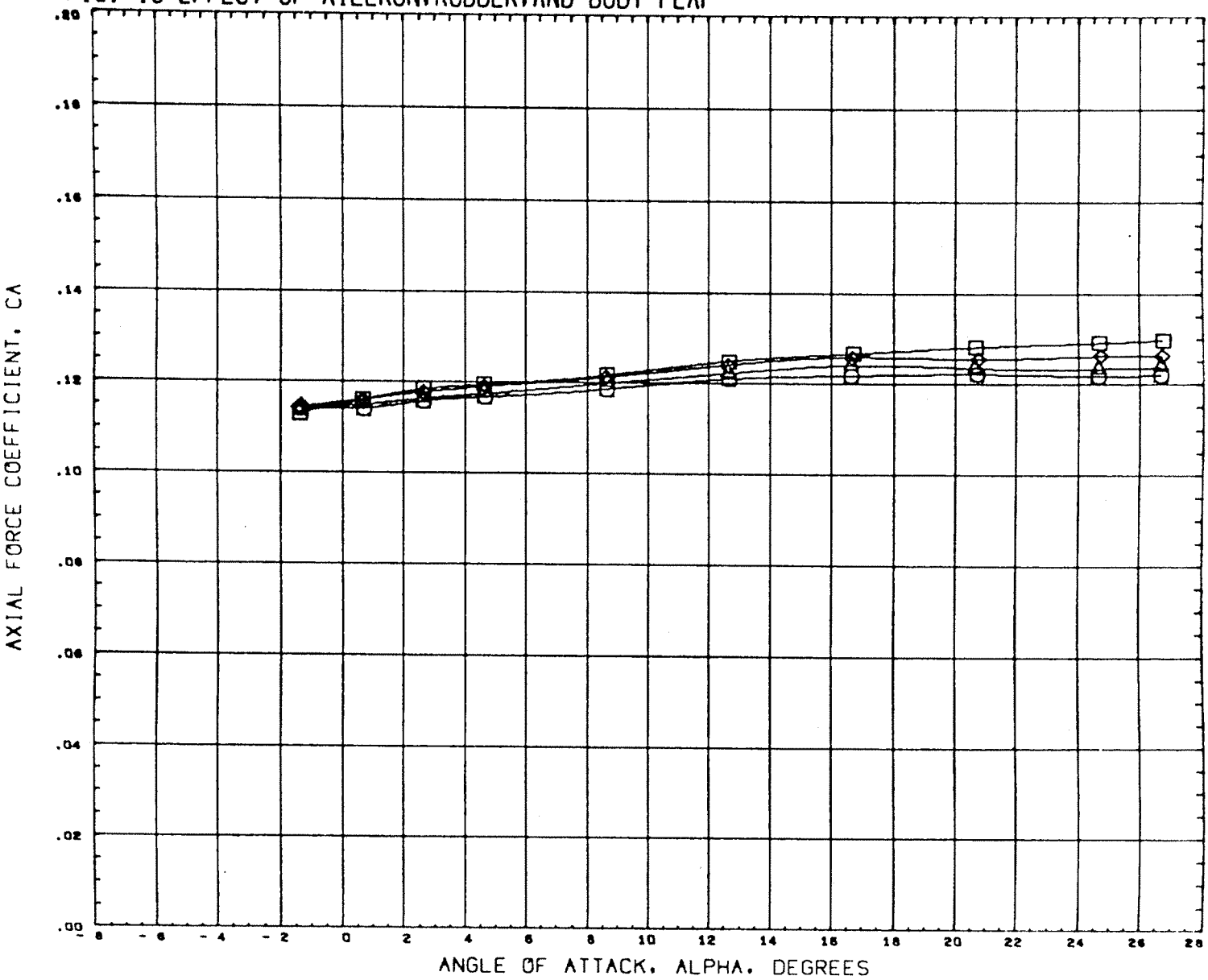
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

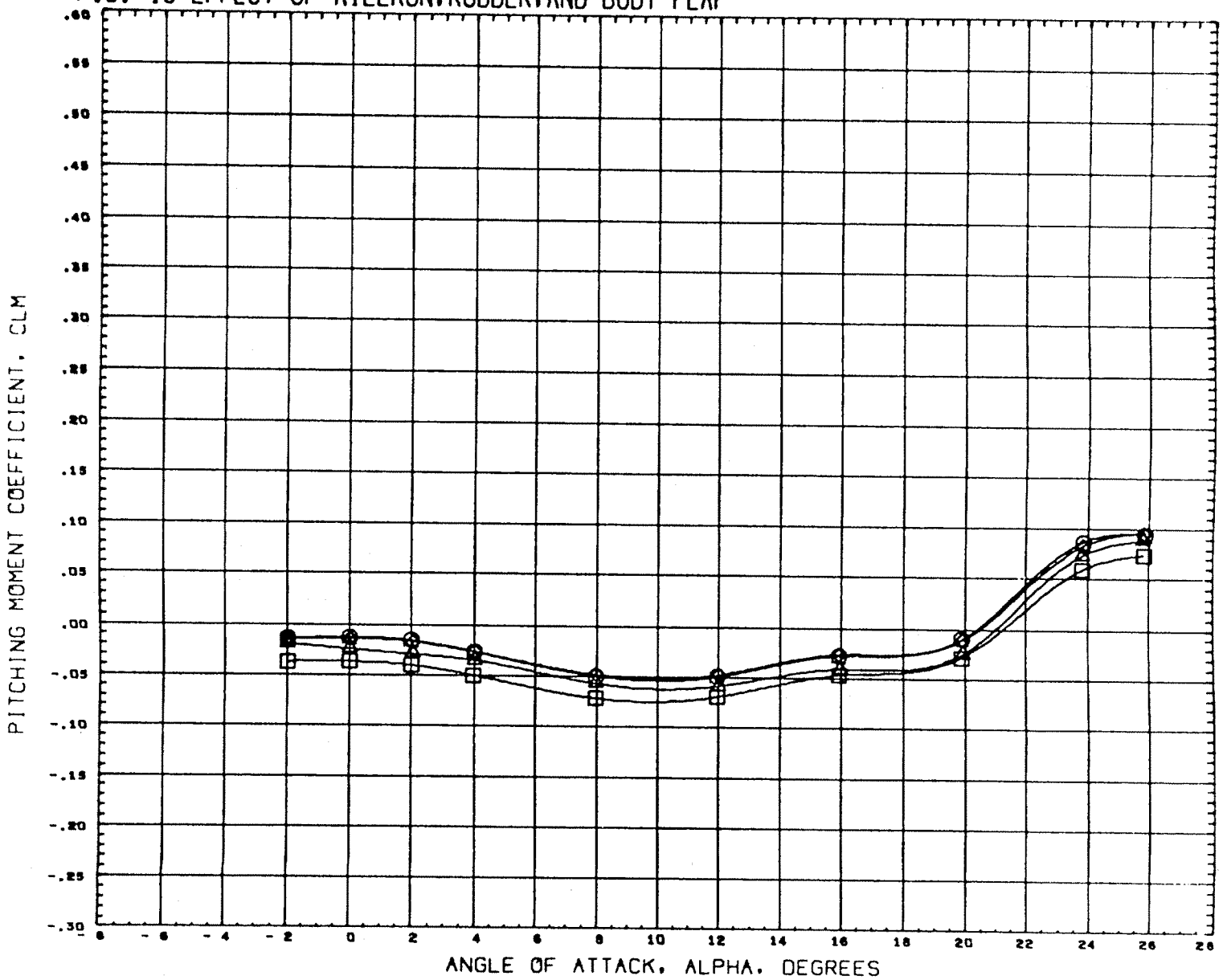


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

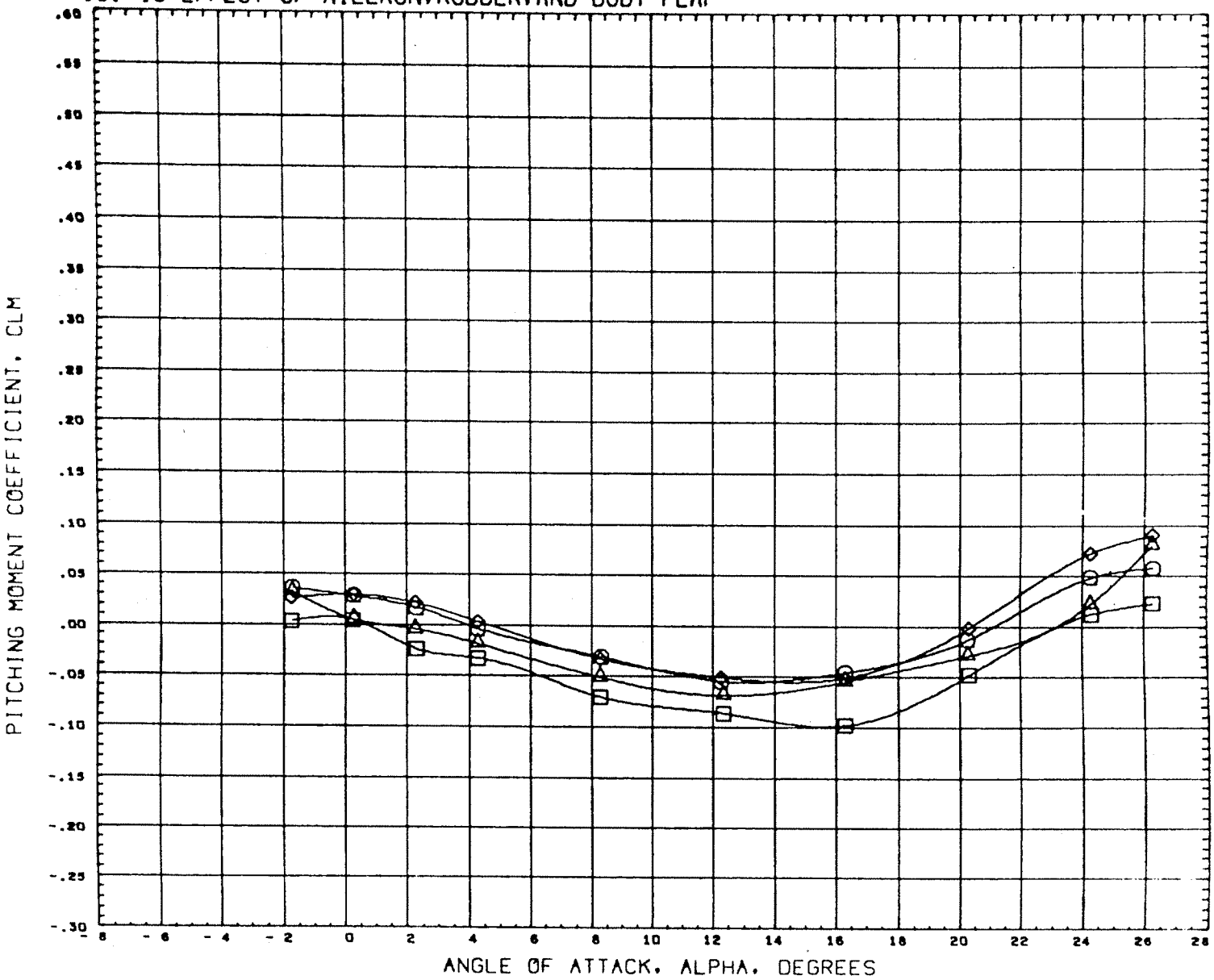


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C6W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C6W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C6W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C6W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



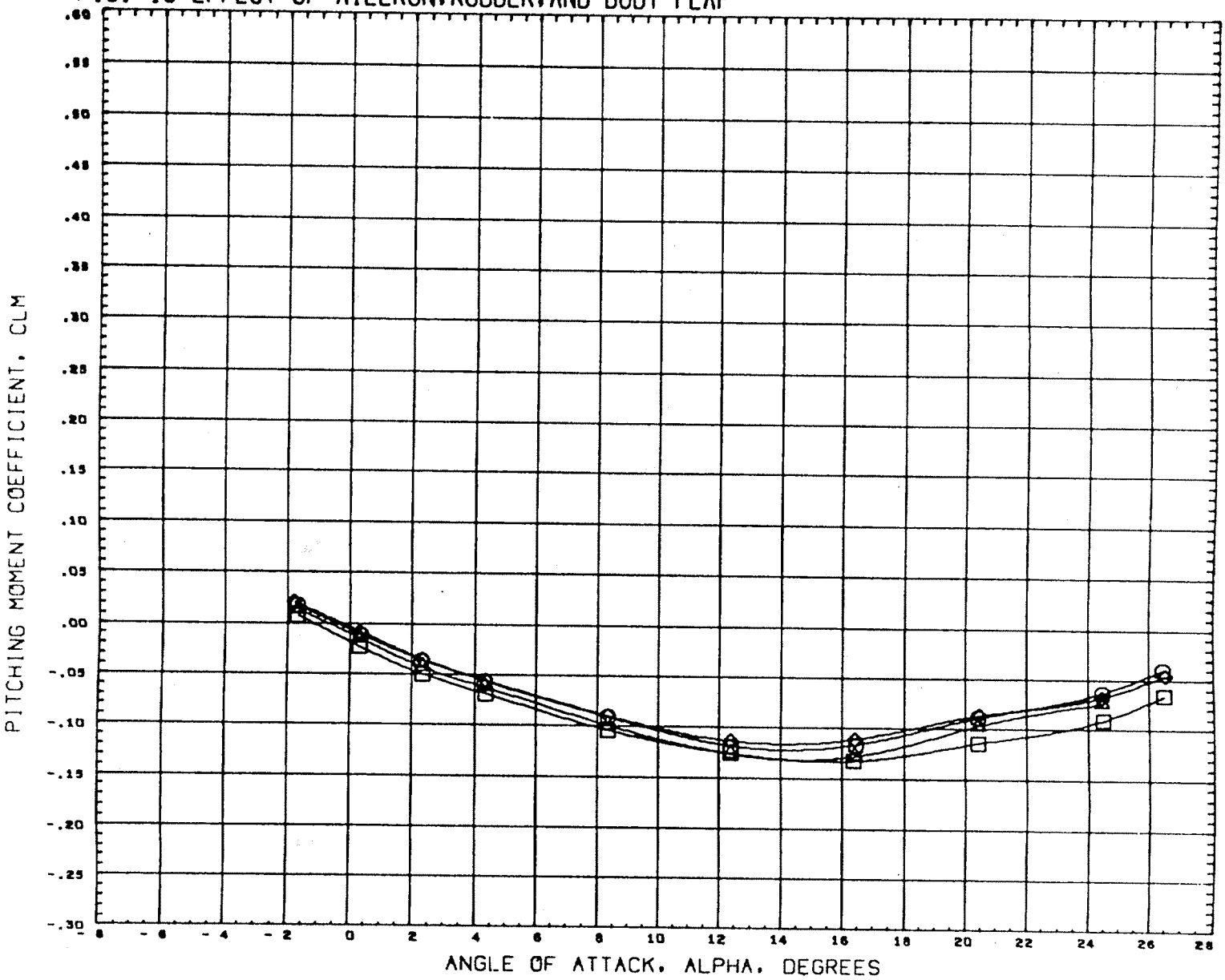
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA258)	△	AMES 66-563 B22C8W19V10R2
(CBA259)	◇	AMES 66-563 B22C8W19V10R2
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

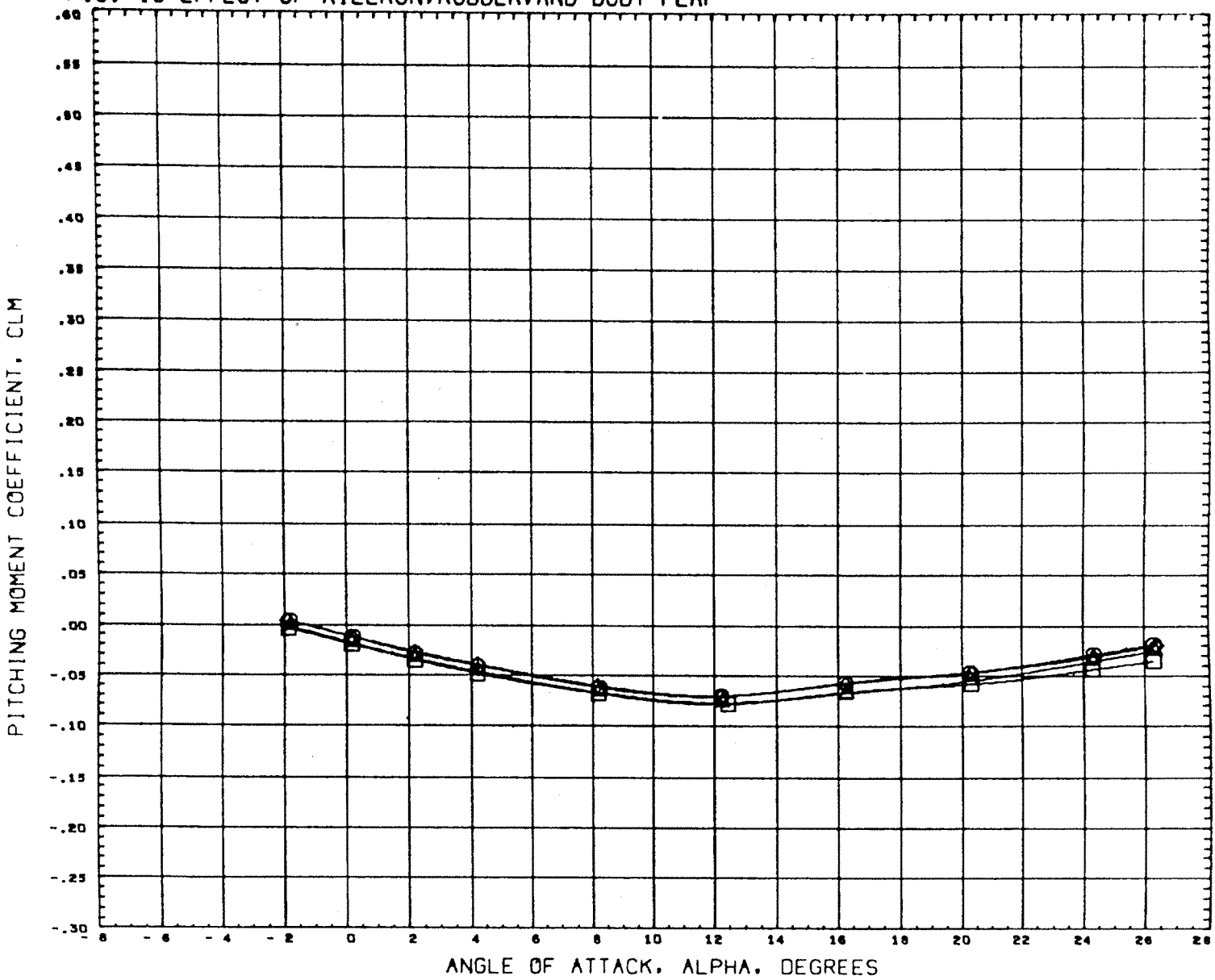


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

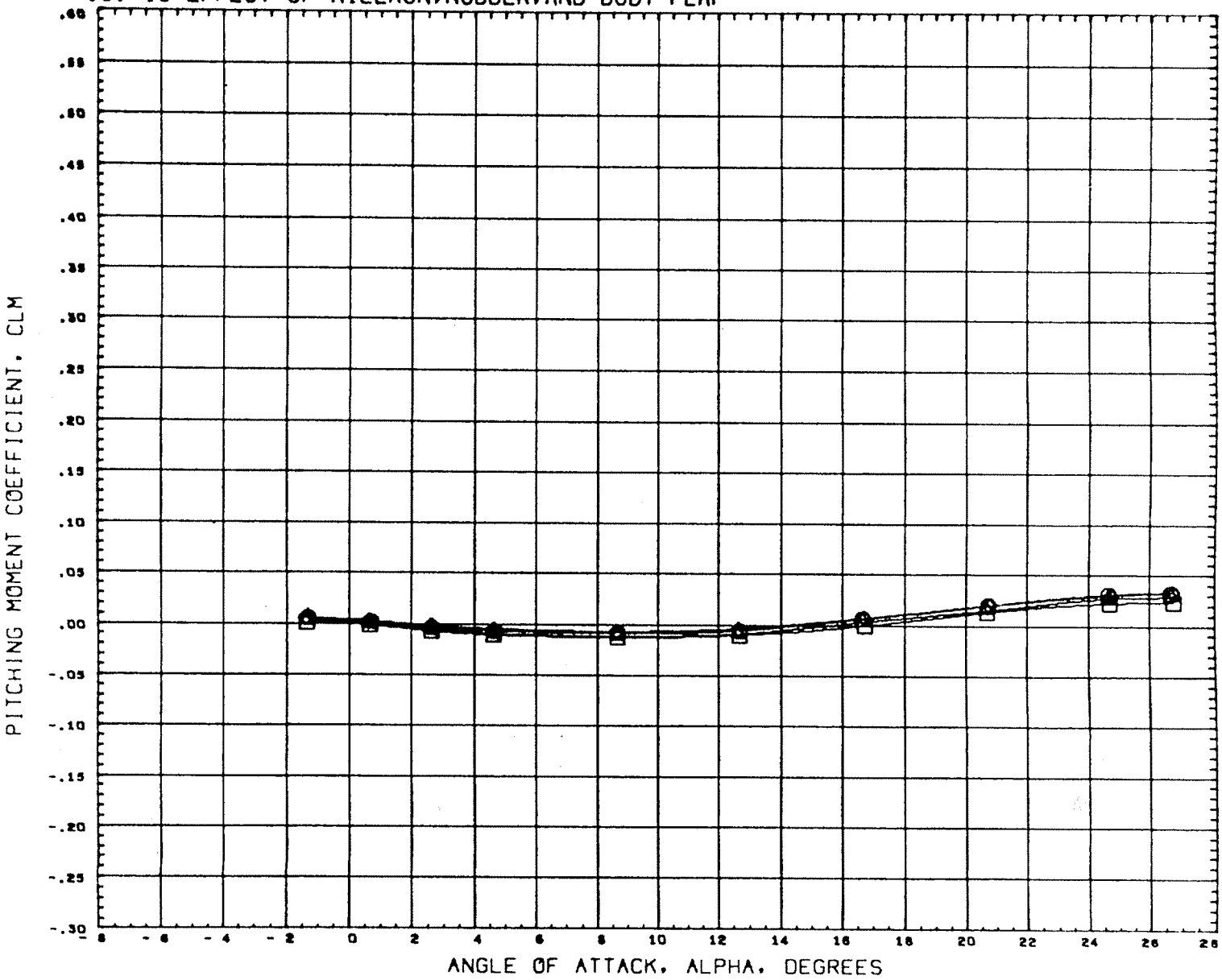


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.6160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

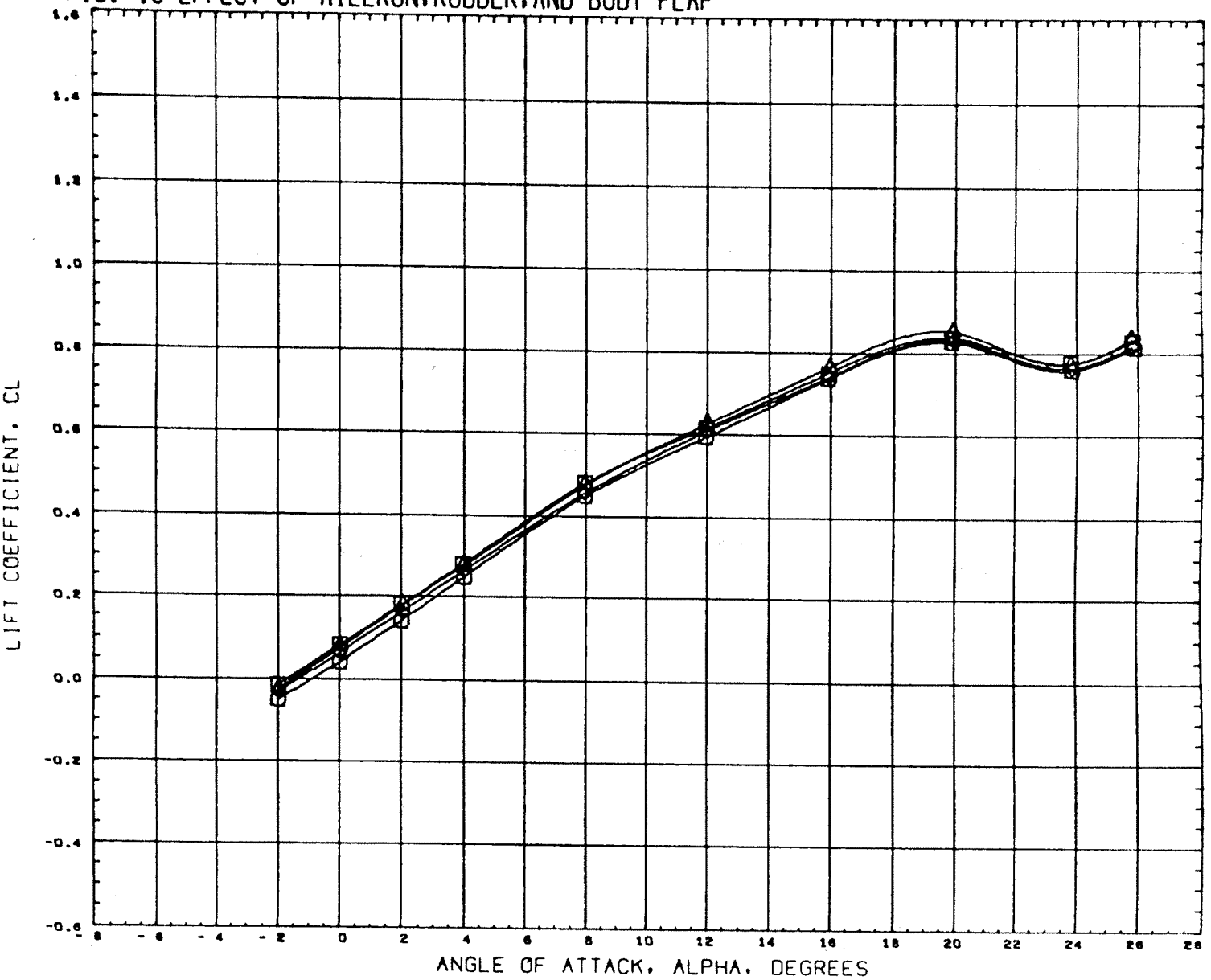


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBAZ50)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBAZ58)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBAZ59)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBAZ60)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

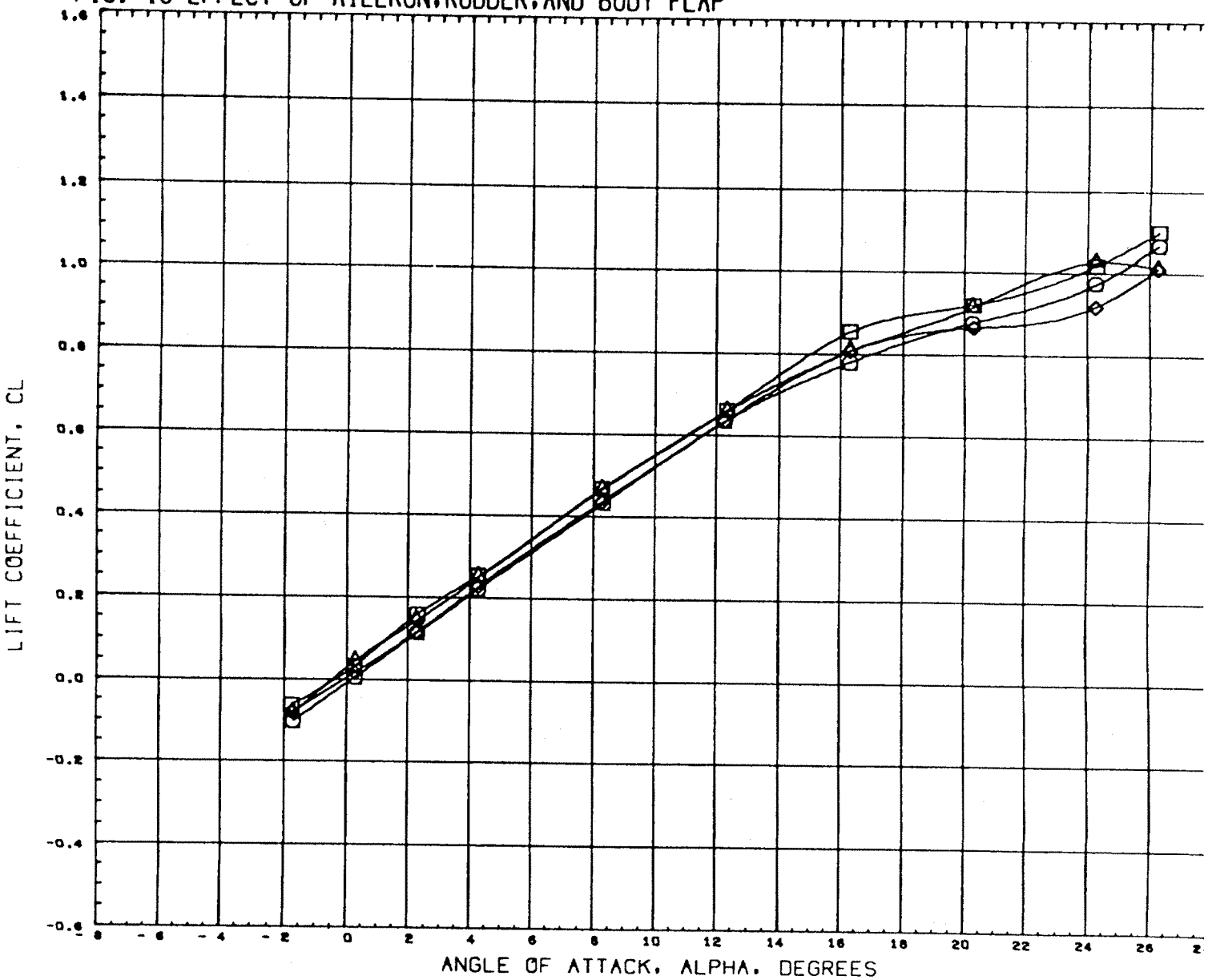


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

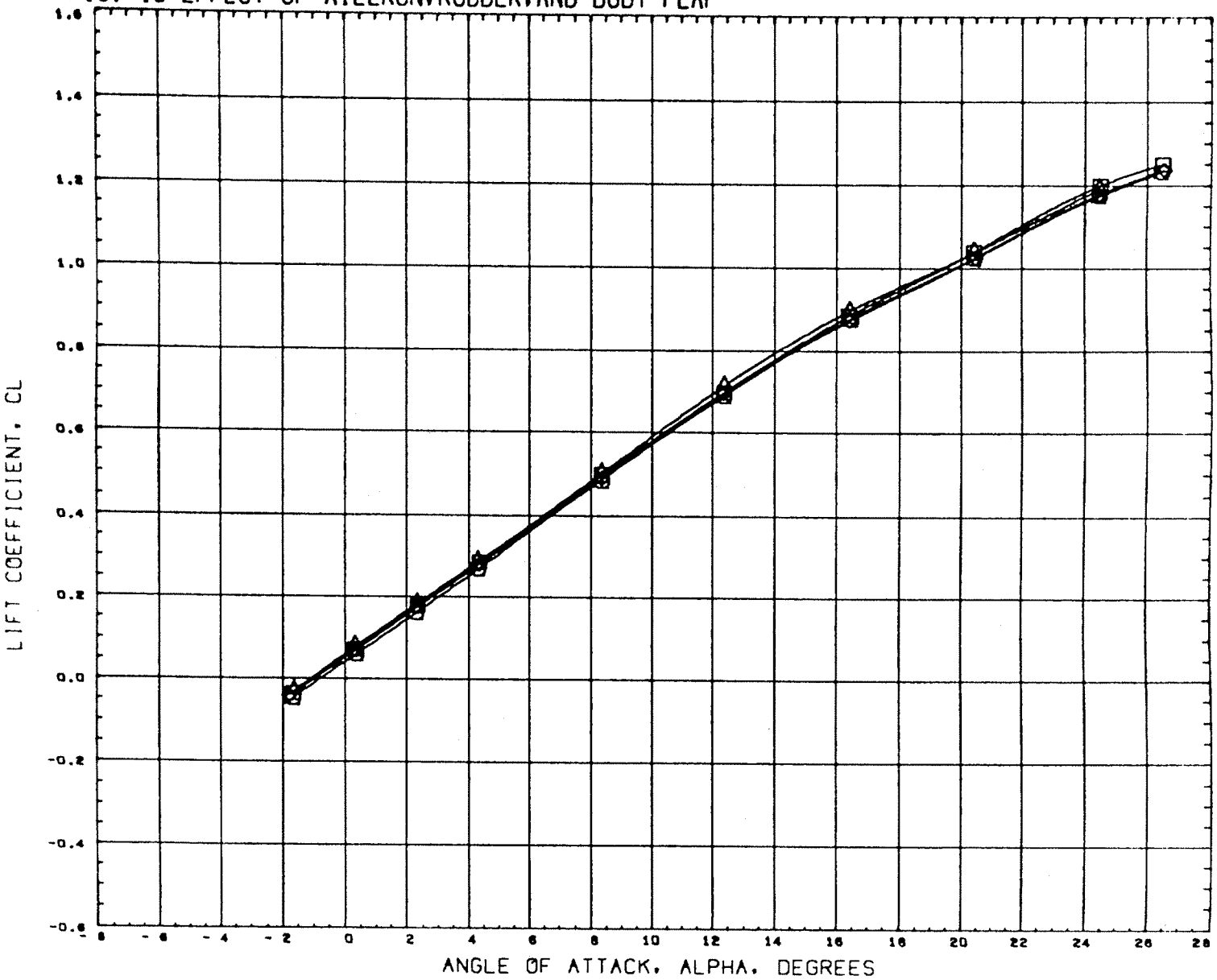


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

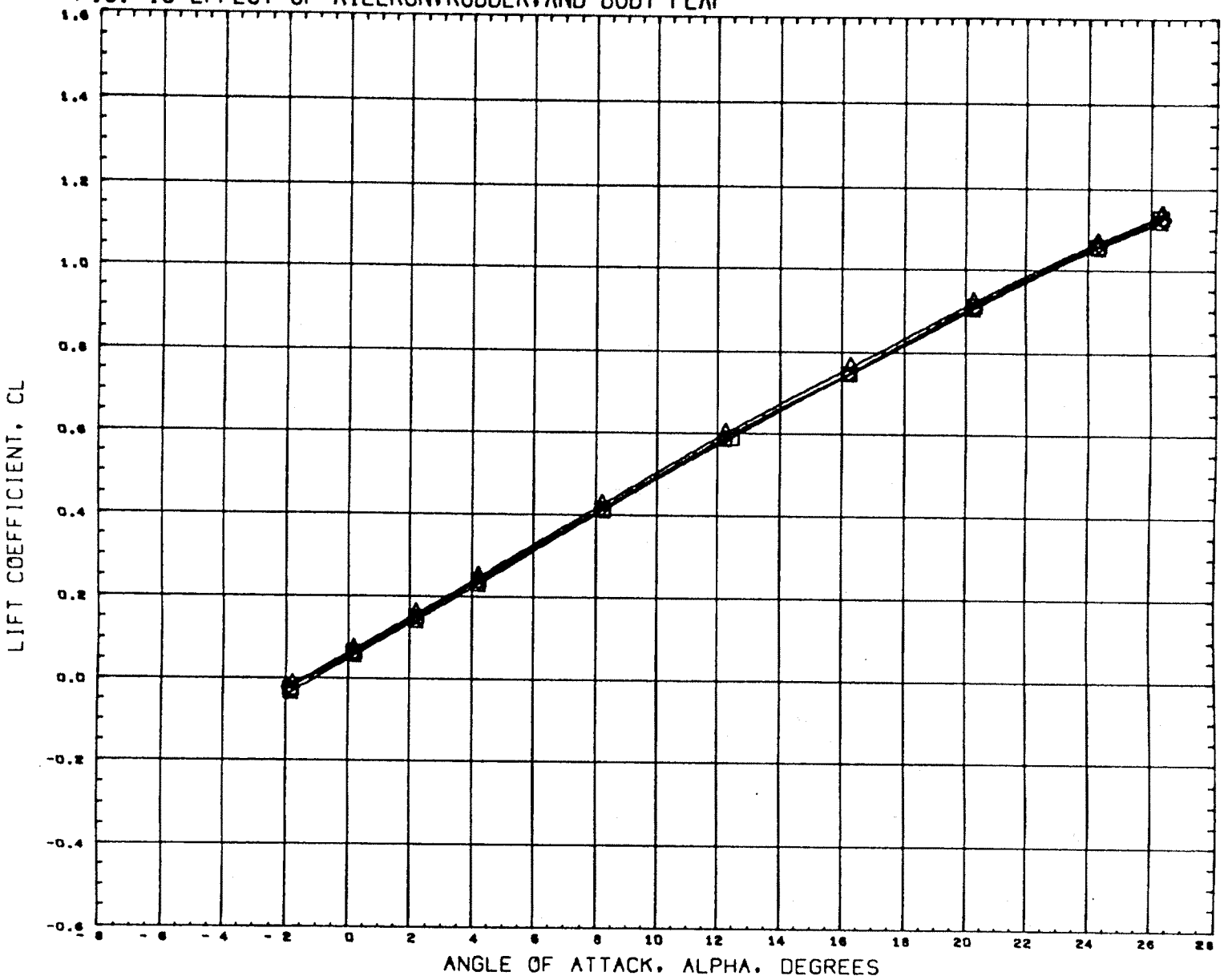


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

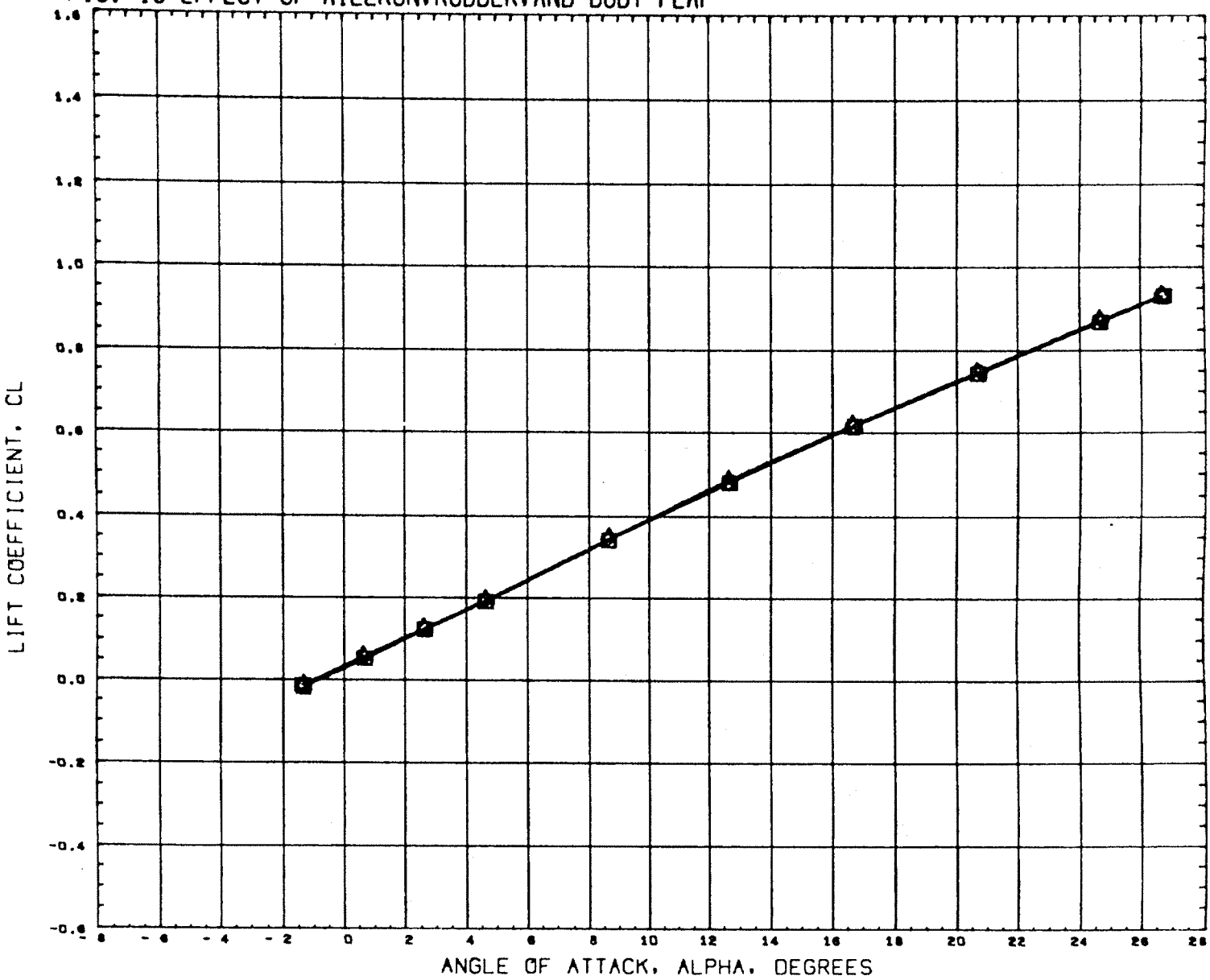


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

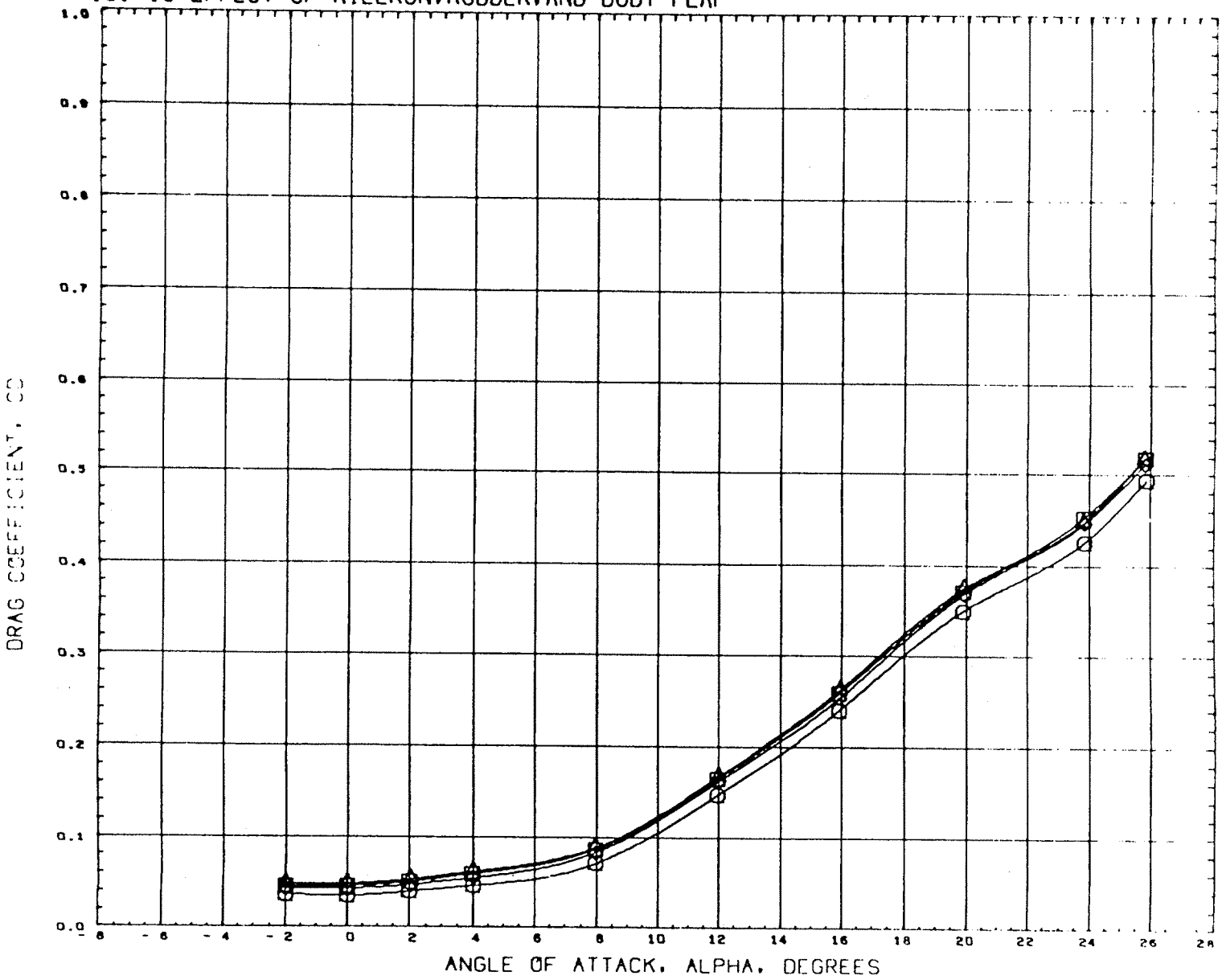


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

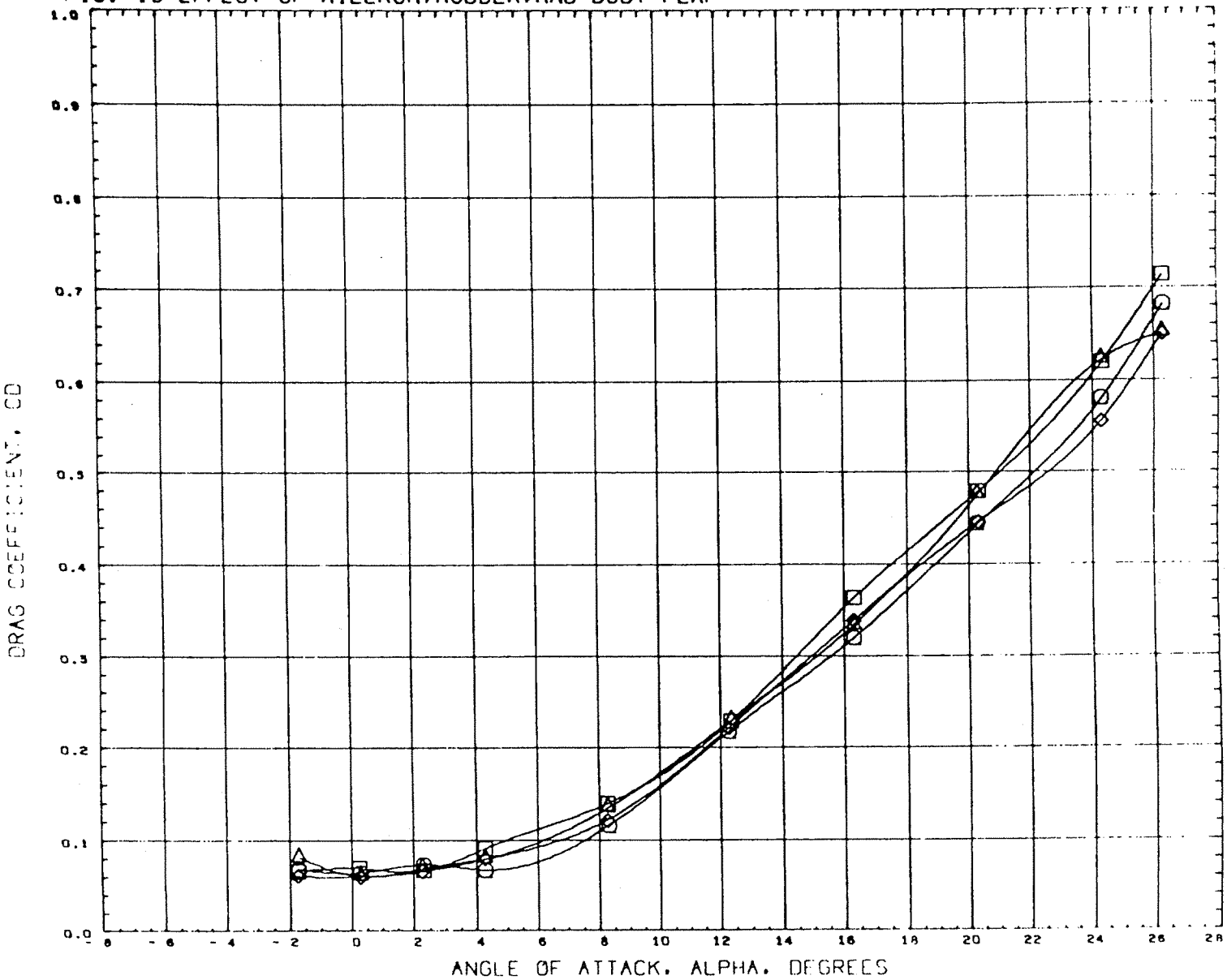


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	79.1959	SQ.IN.
LREF	6.5410	IN.
BREF	13.0869	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

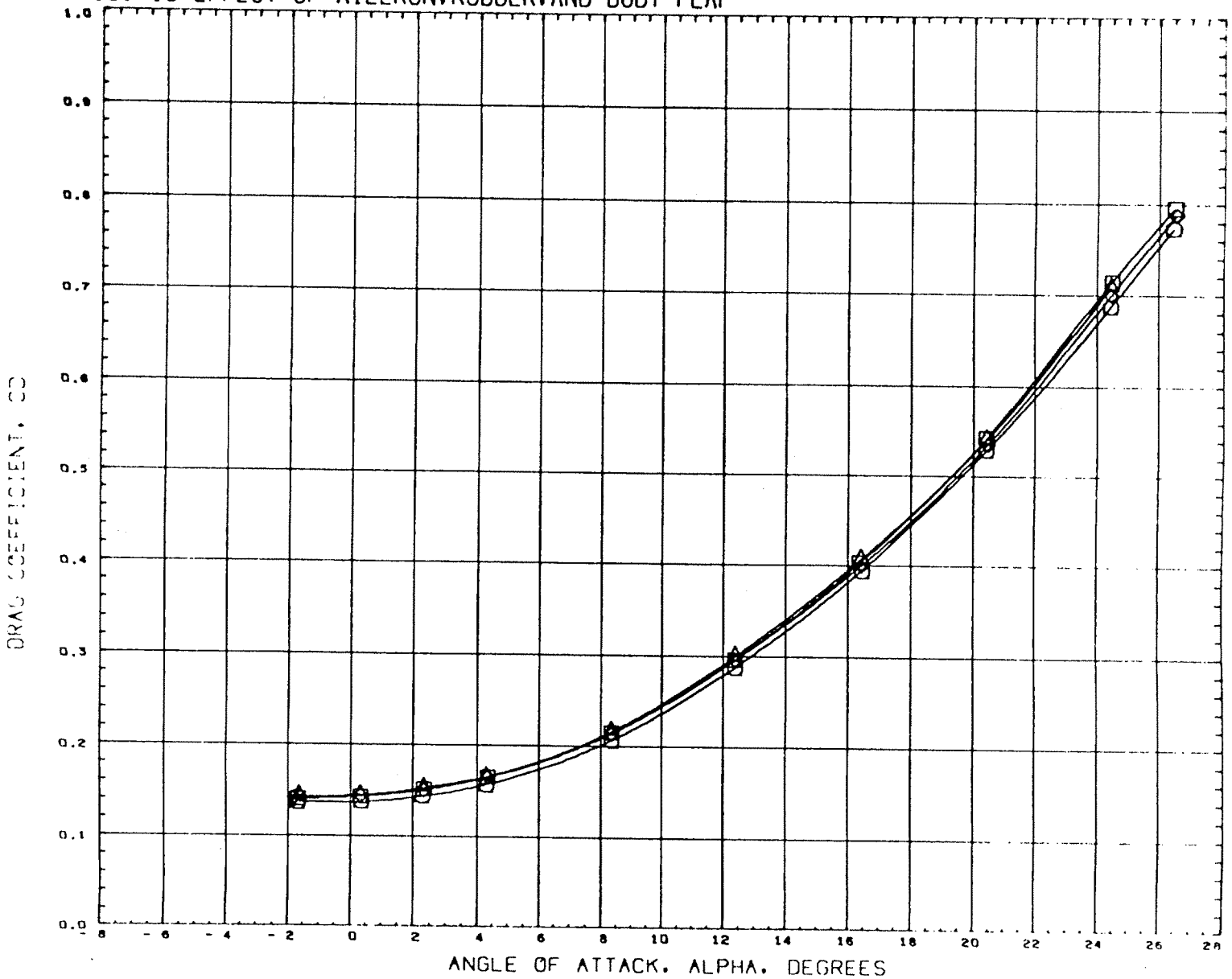


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	BF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V19R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V19R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V19R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V19R2F7L	0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1350	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 0.912

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

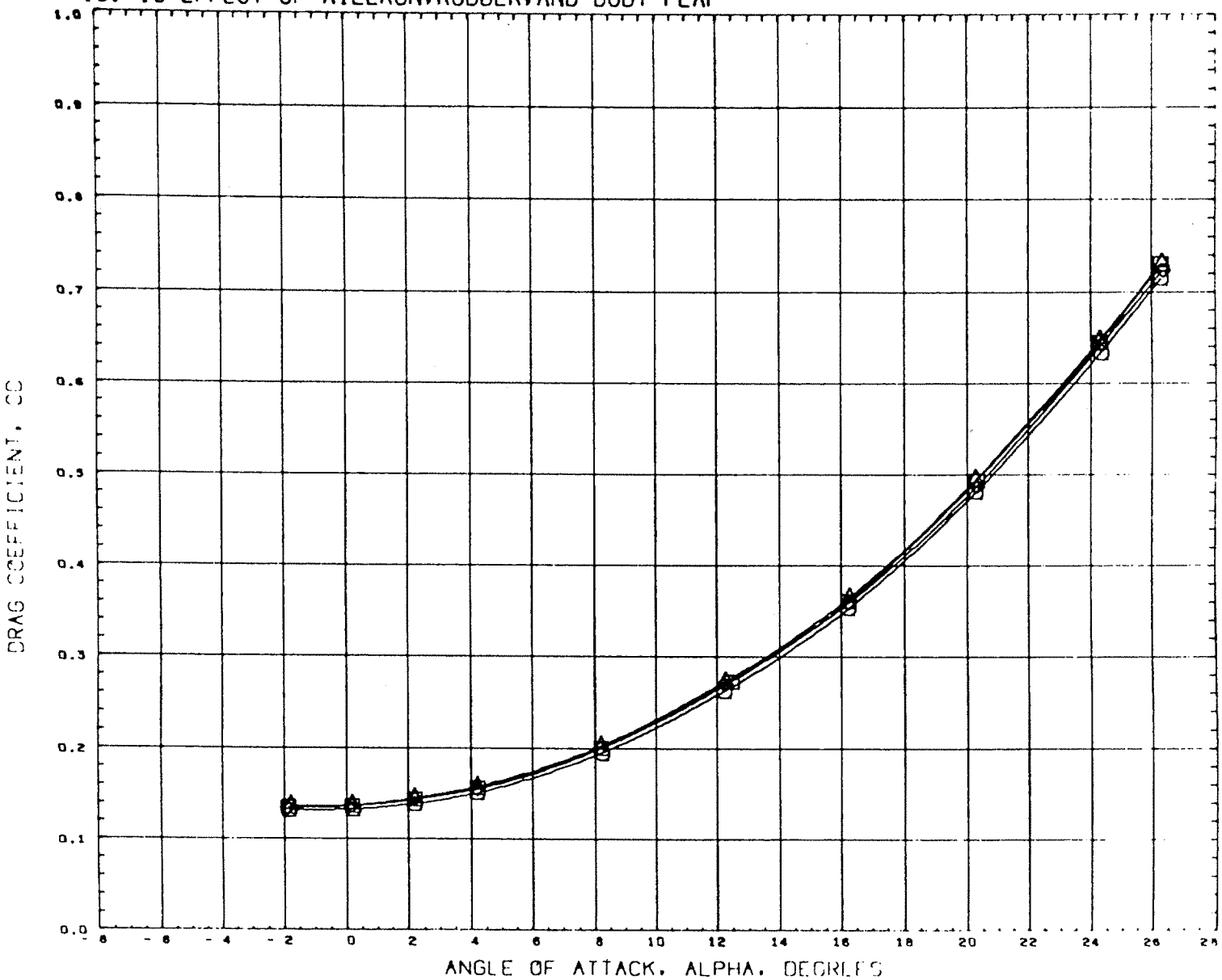


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

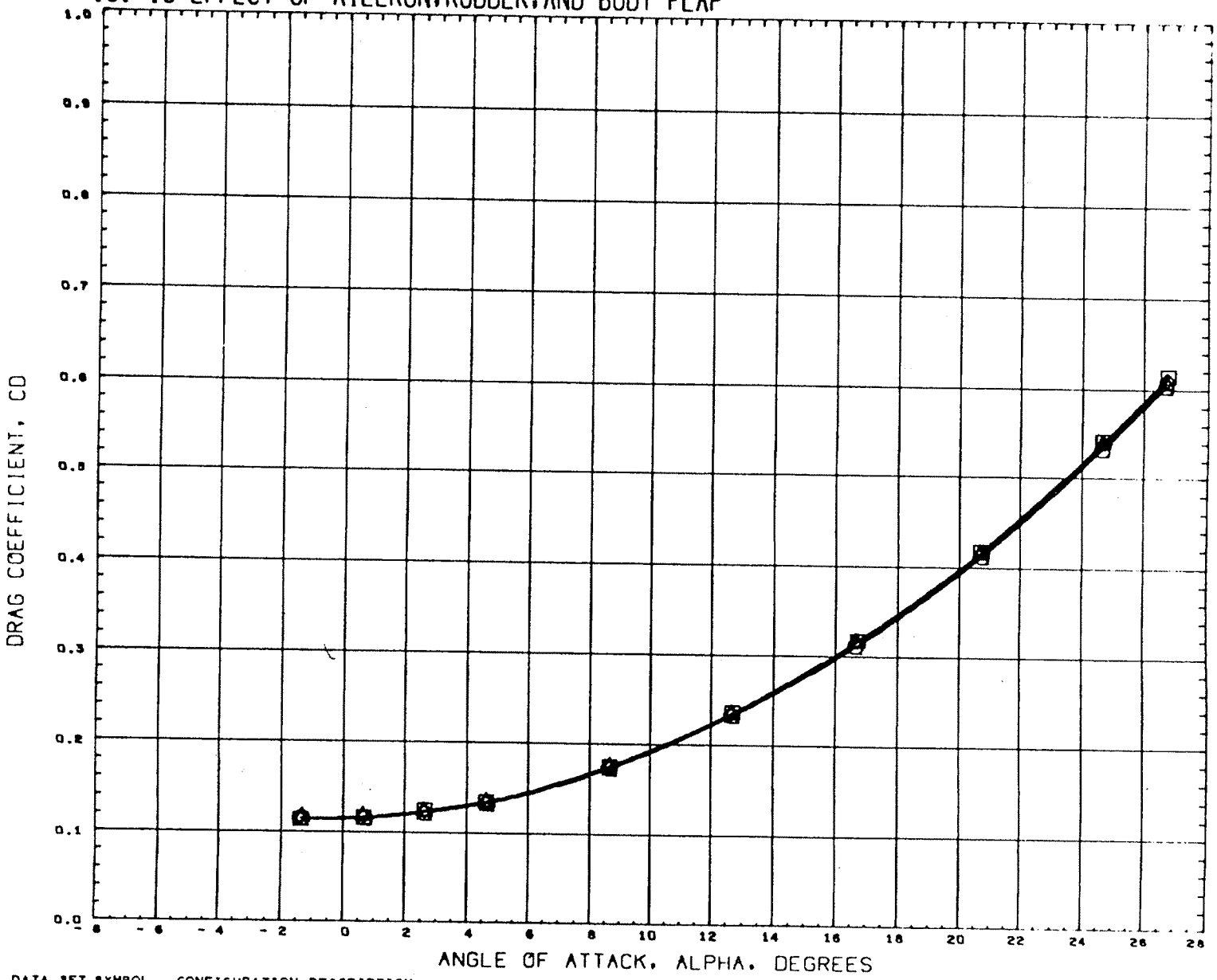


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)		AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)		AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)		AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)		AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 1.497

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

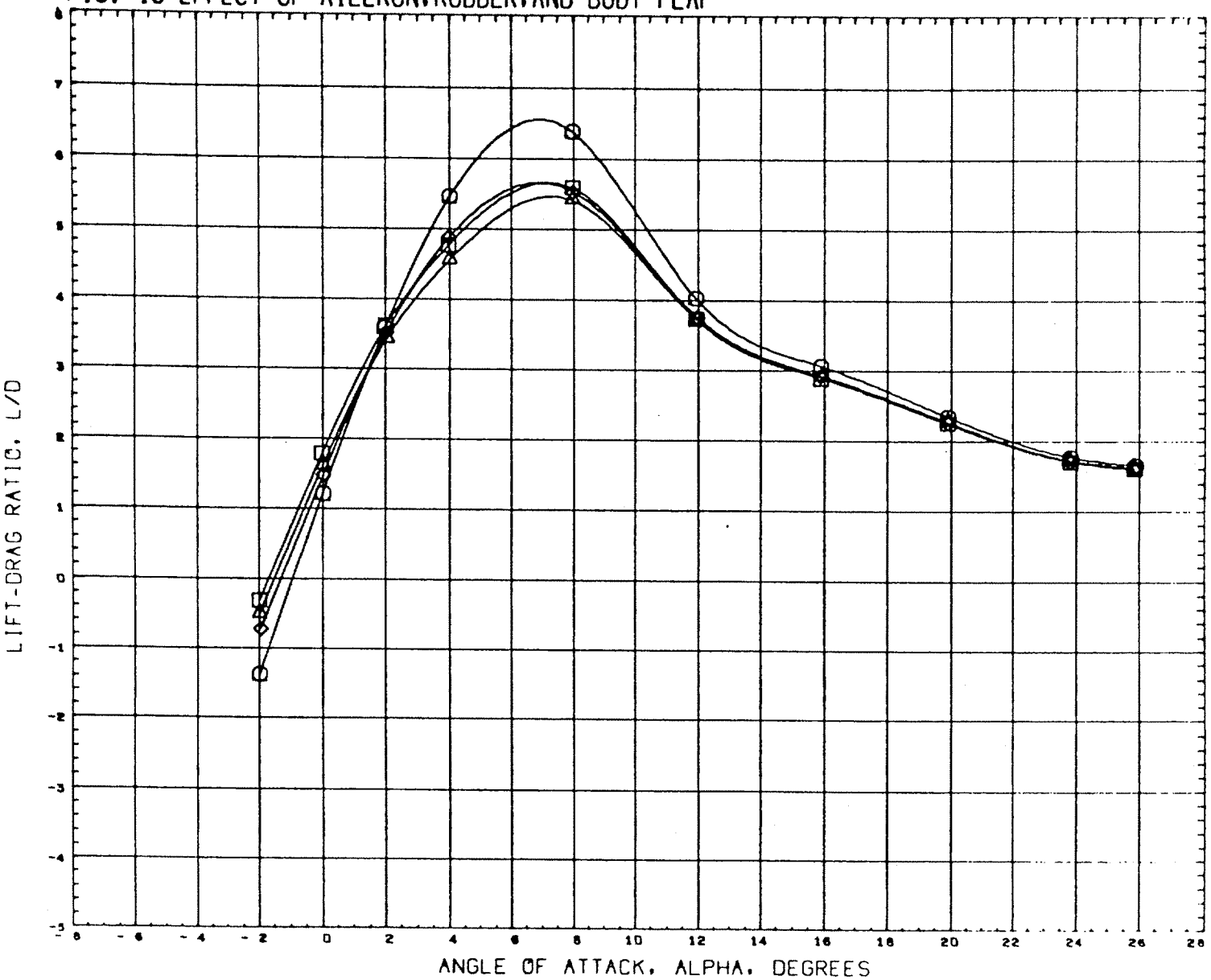


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

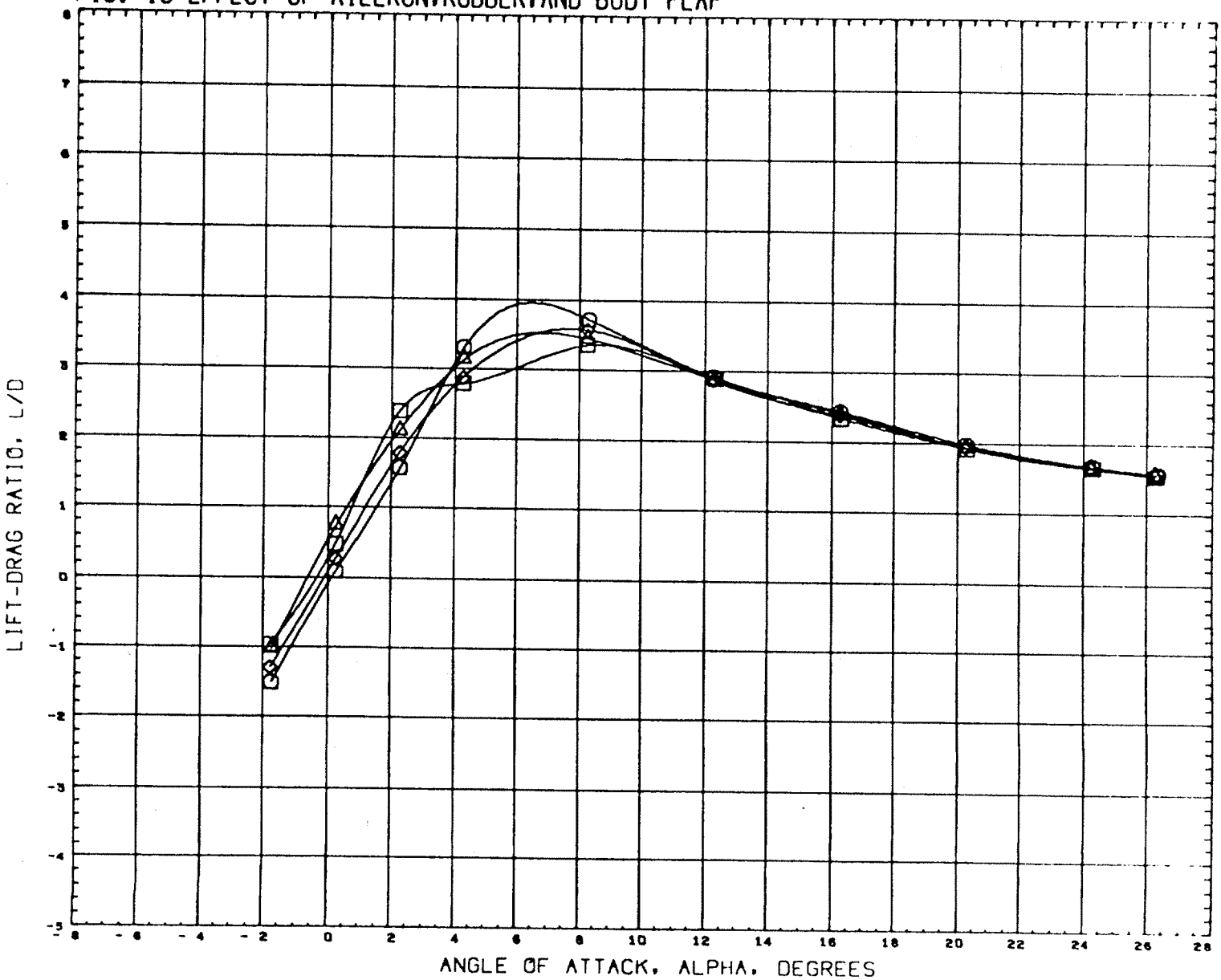


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

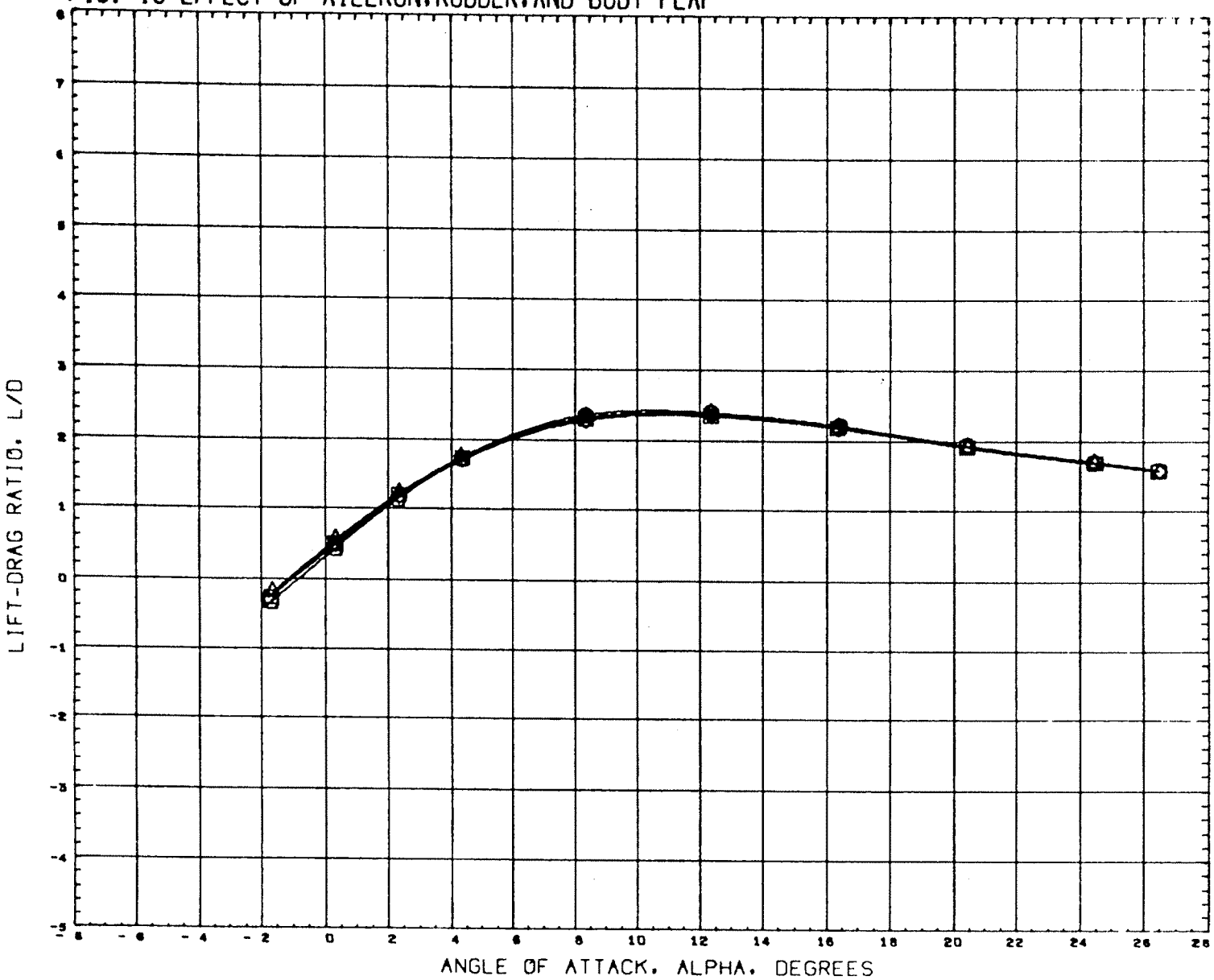


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

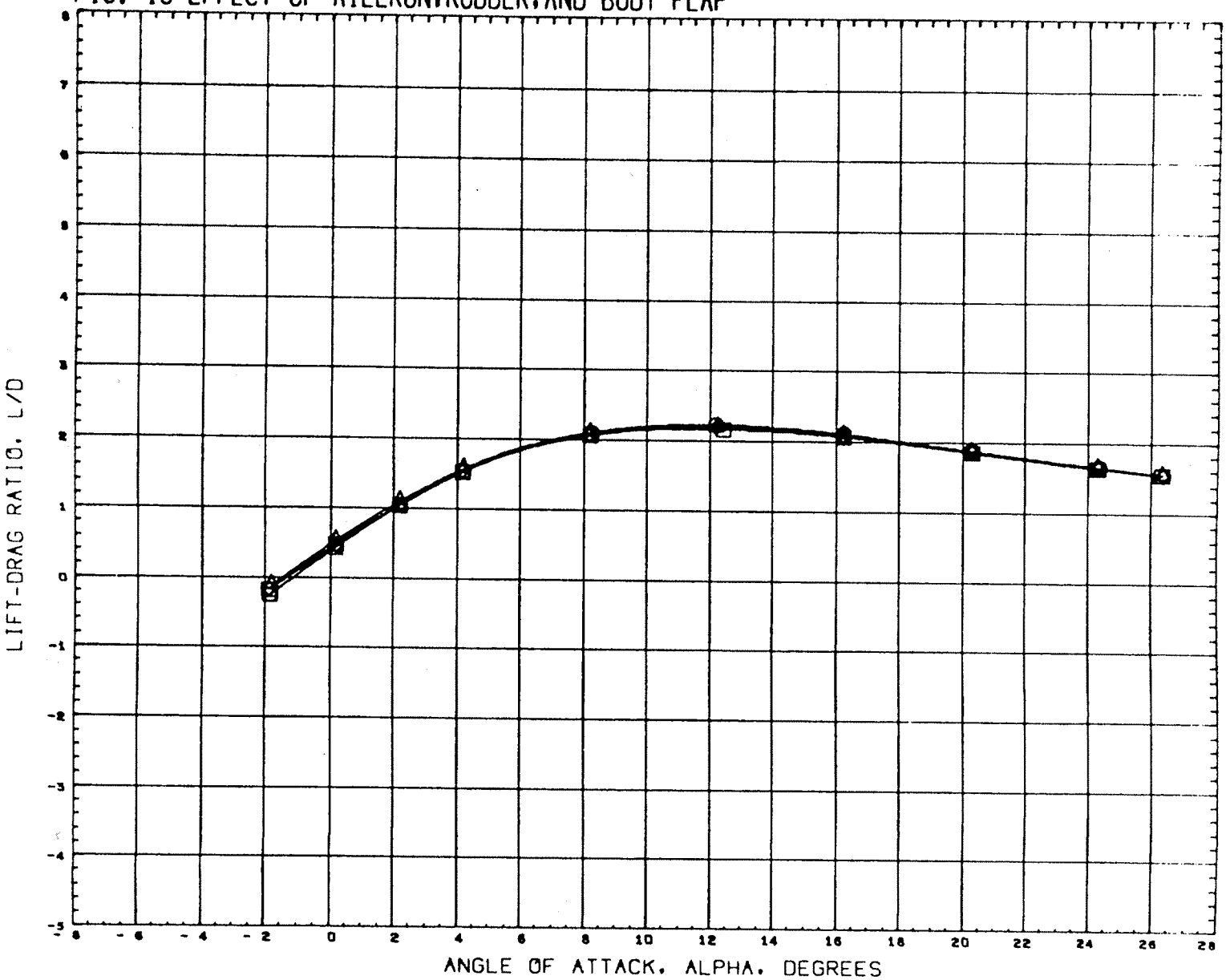


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0078	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



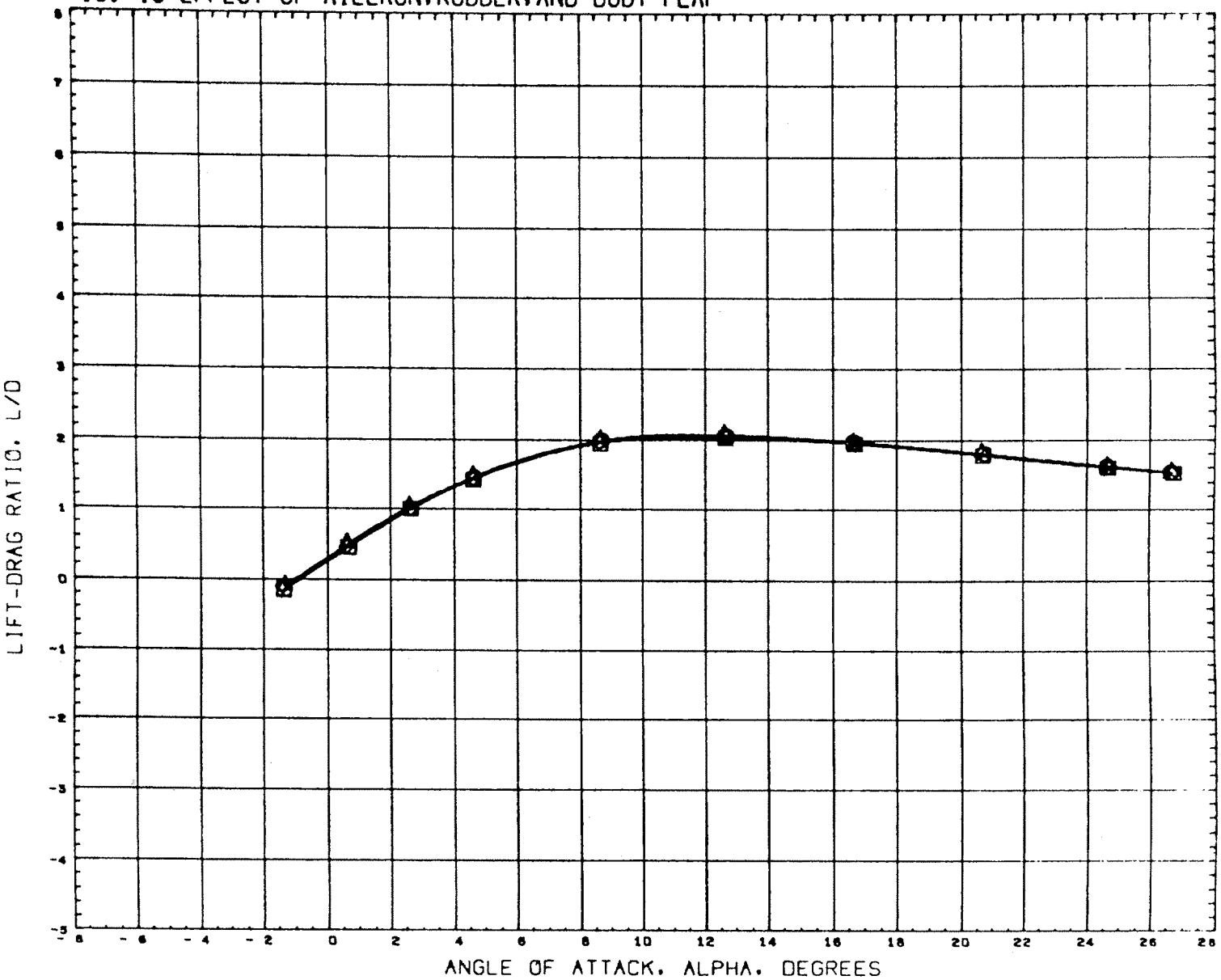
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

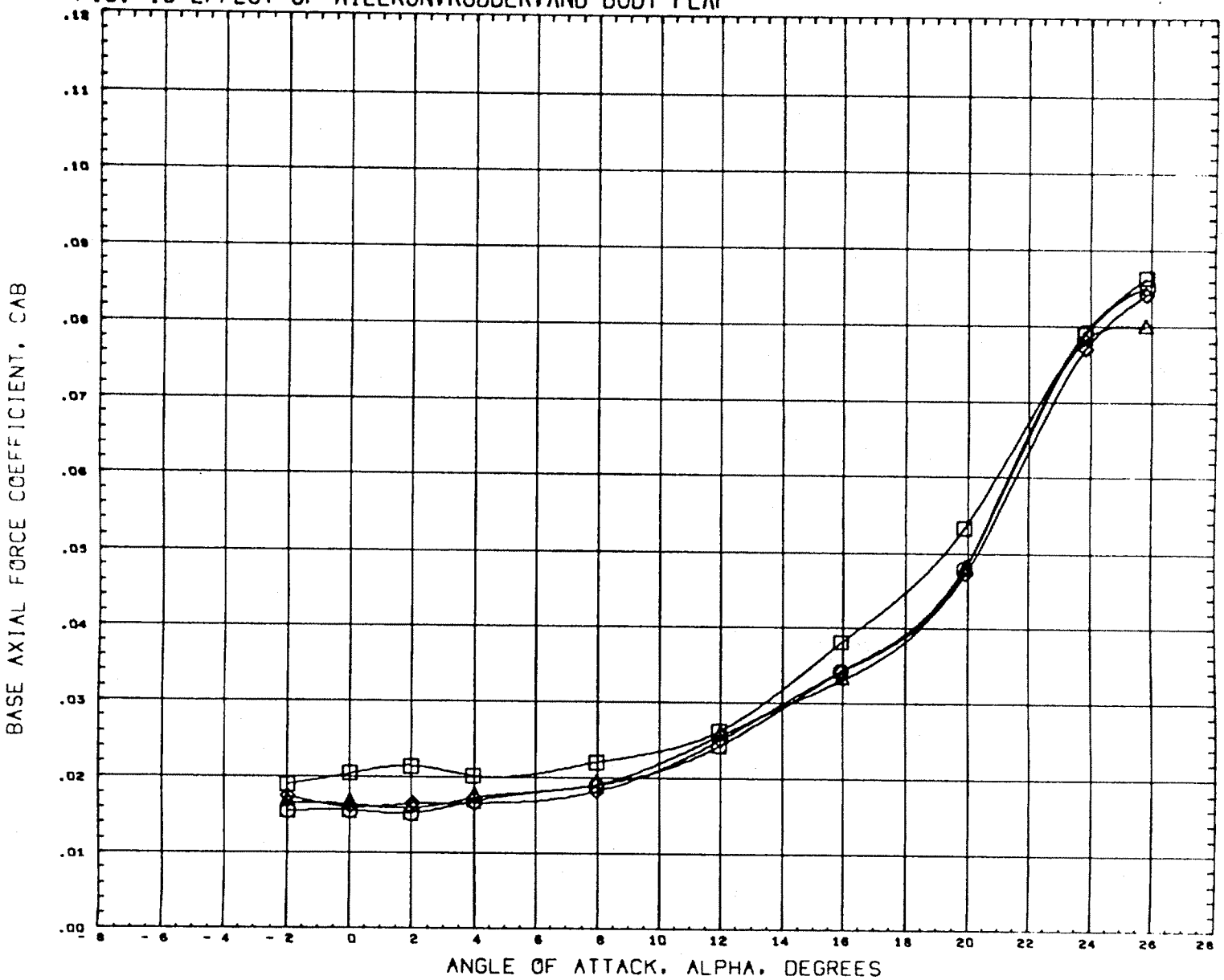


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA256)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

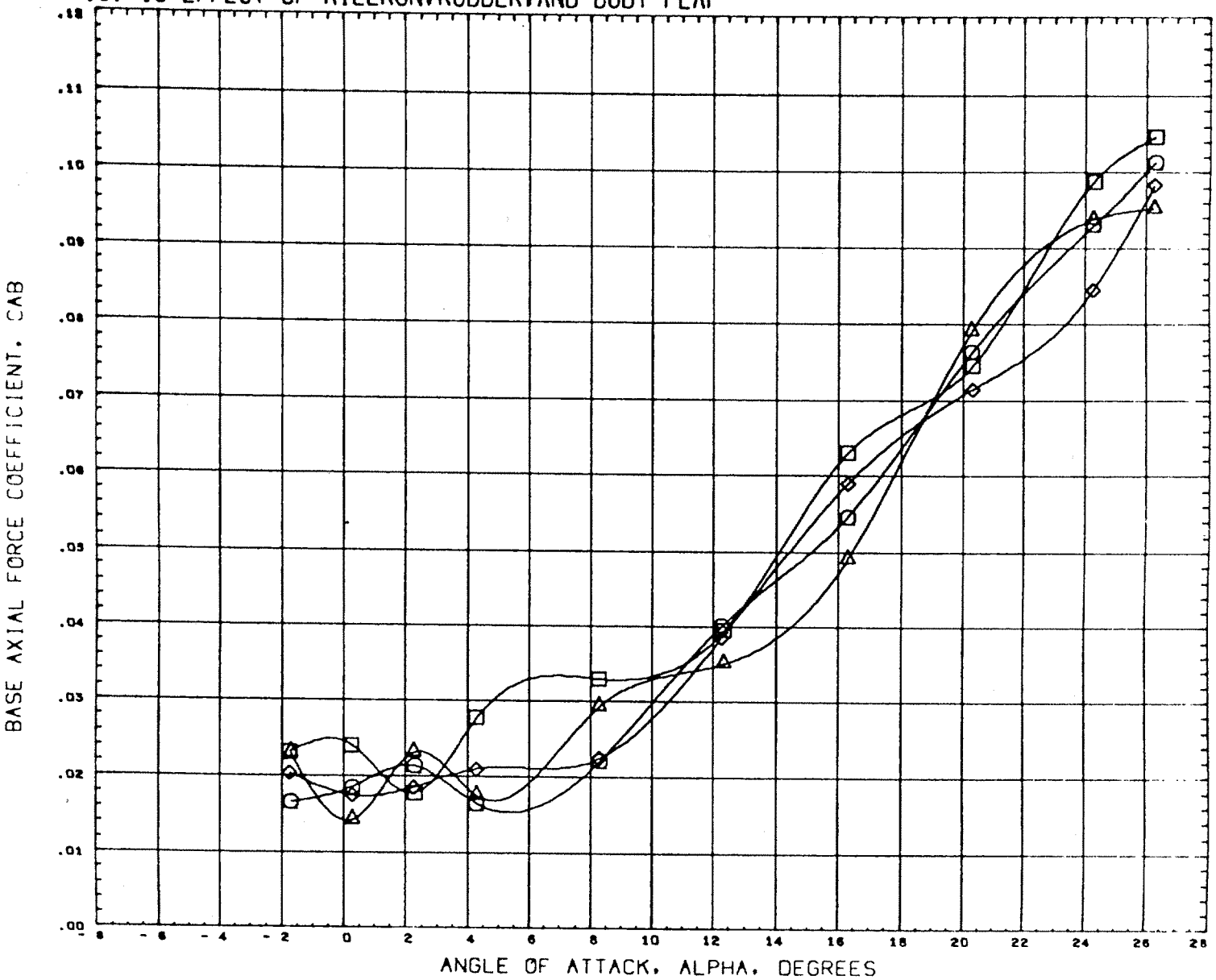


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



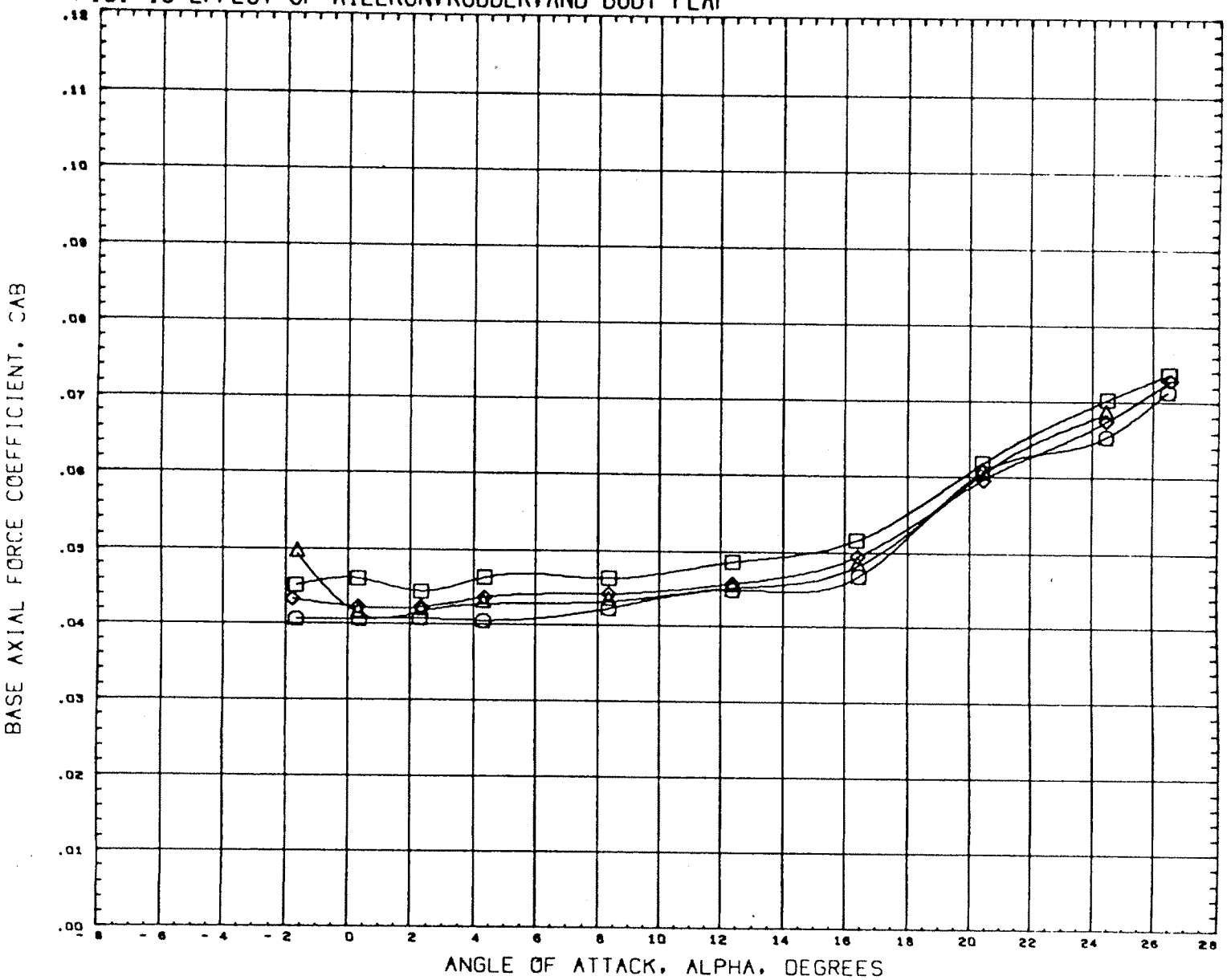
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA258)	△	AMES 66-563 B22C8W19V10R2
(CBA259)	◇	AMES 66-563 B22C8W19V10R2
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L

MACH 0.912

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

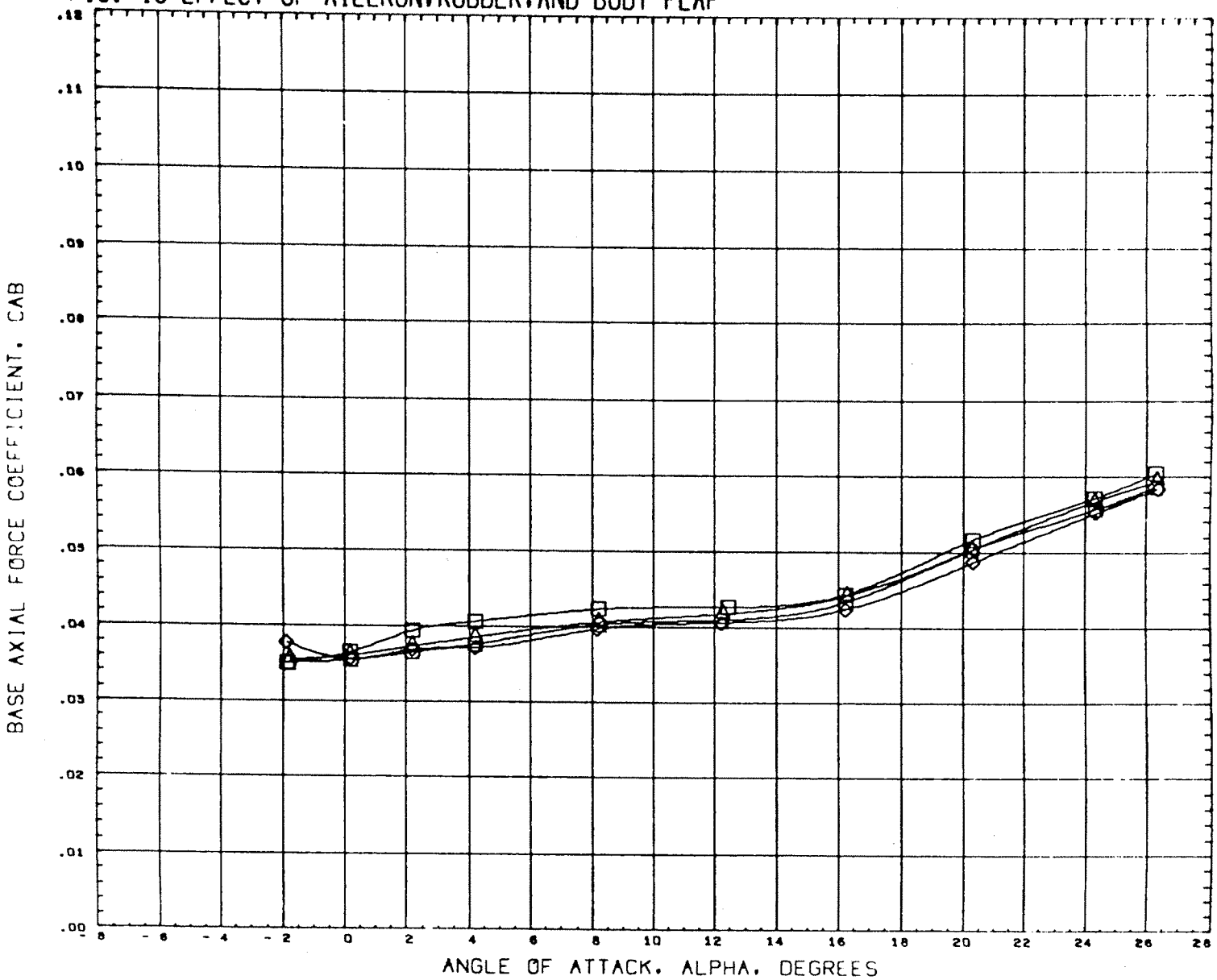


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

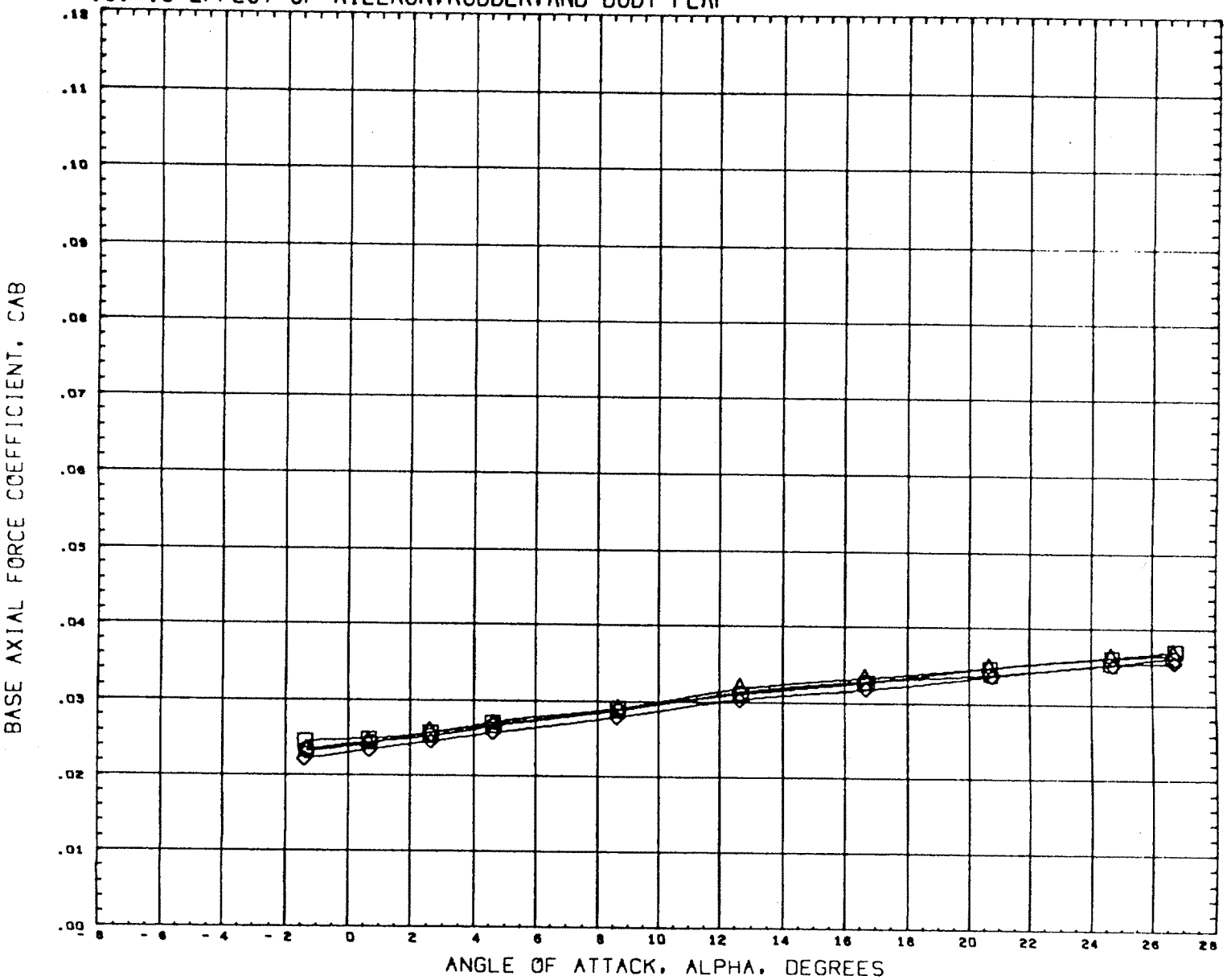


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

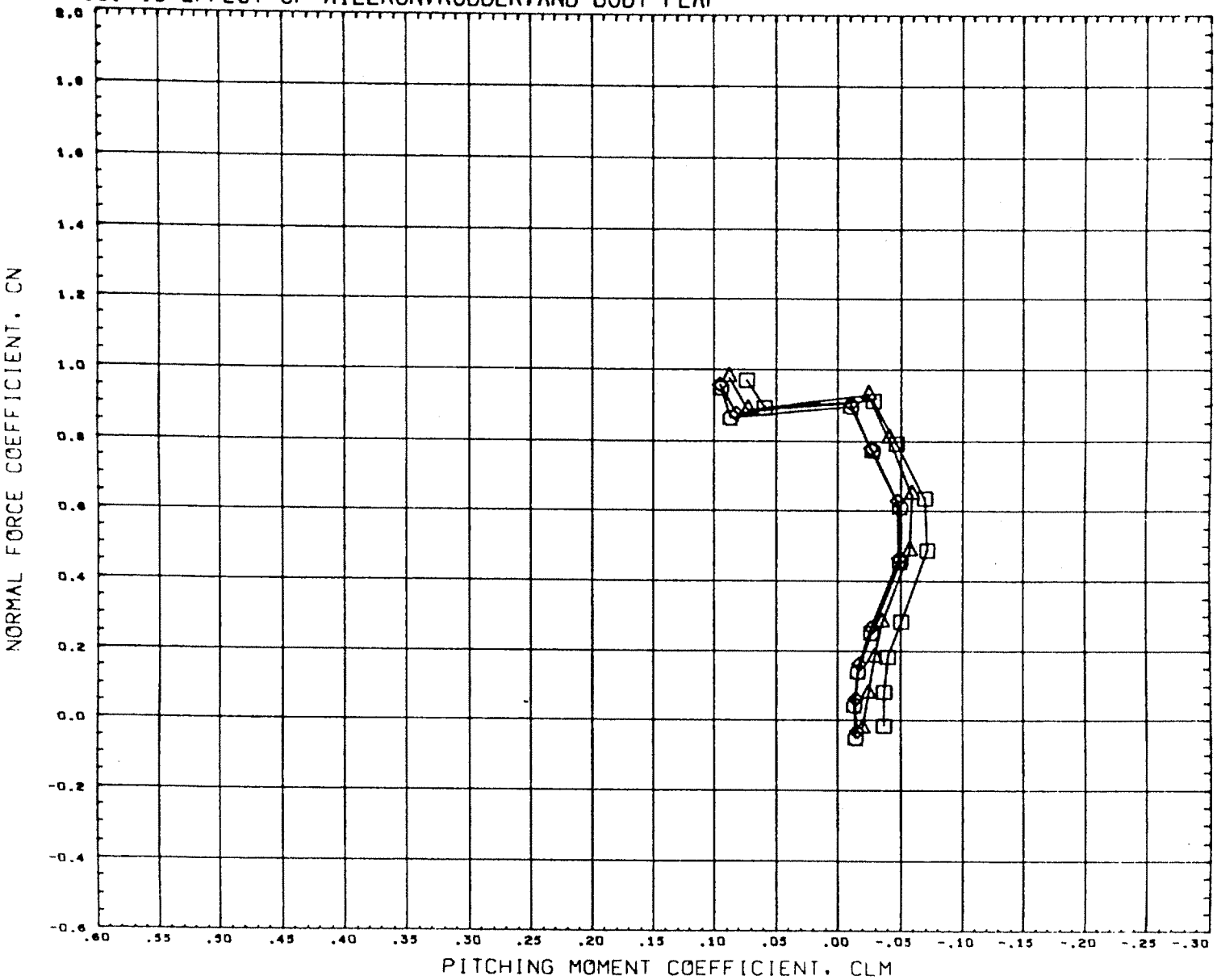


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

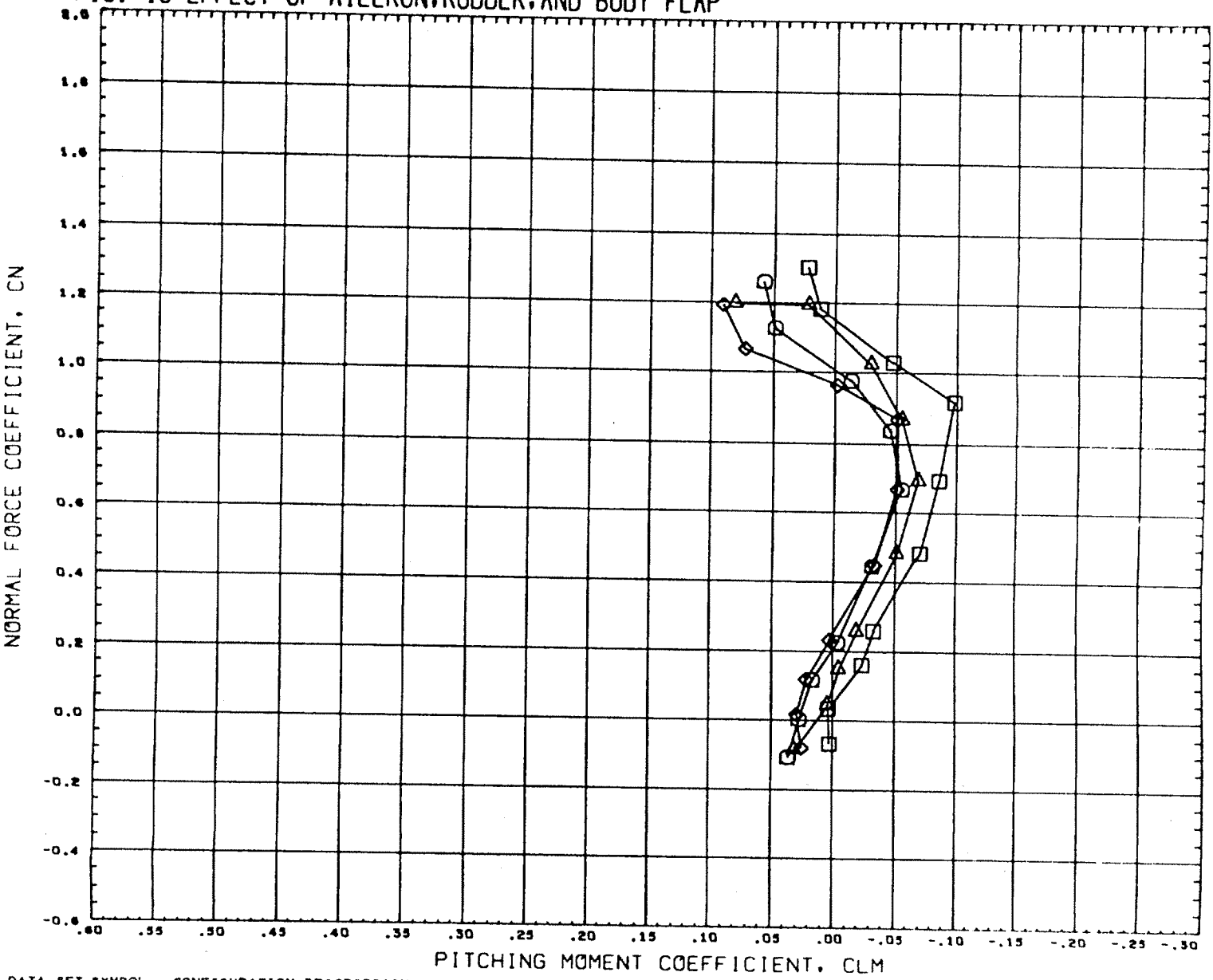


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8180	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



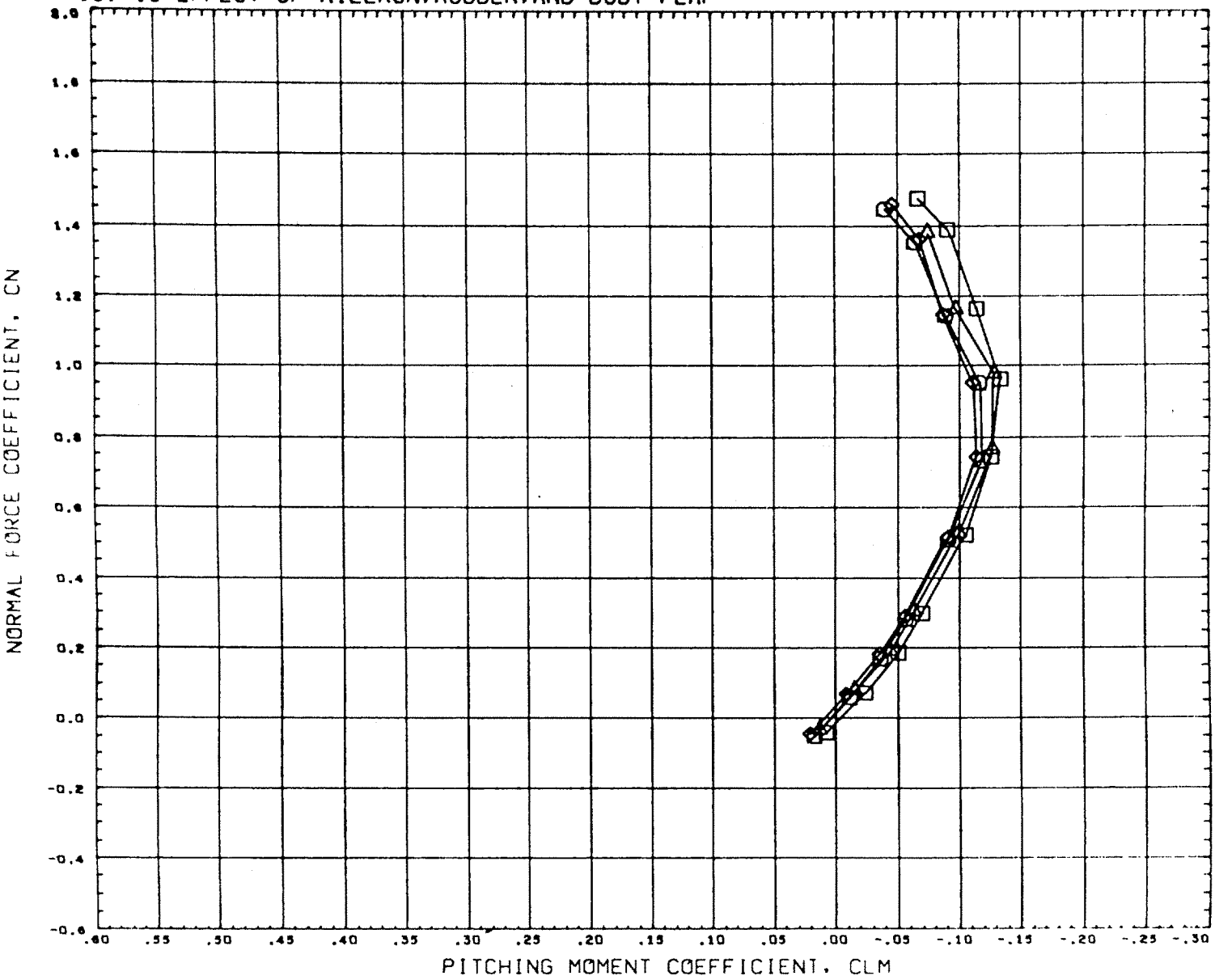
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

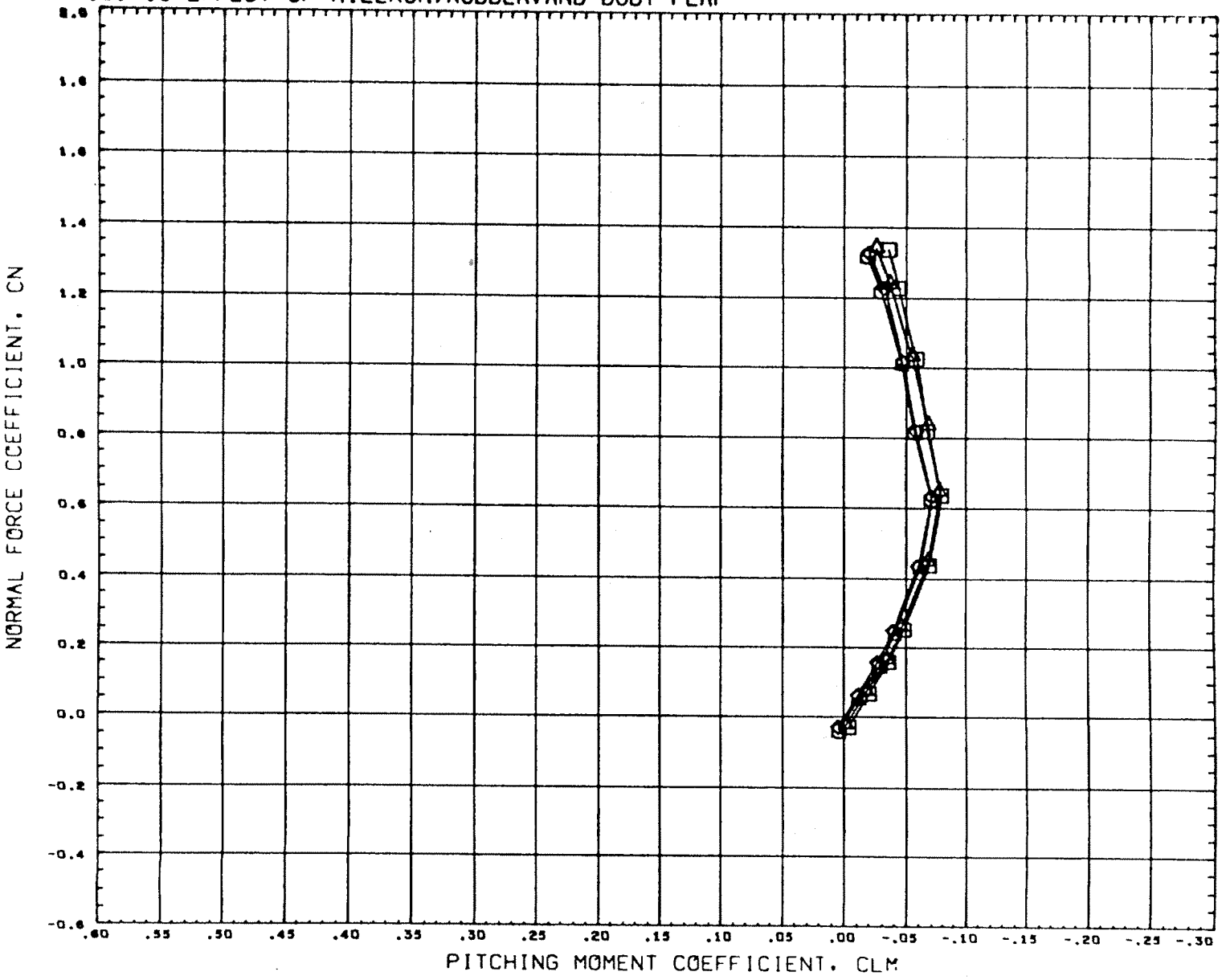


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA230)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA238)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA239)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

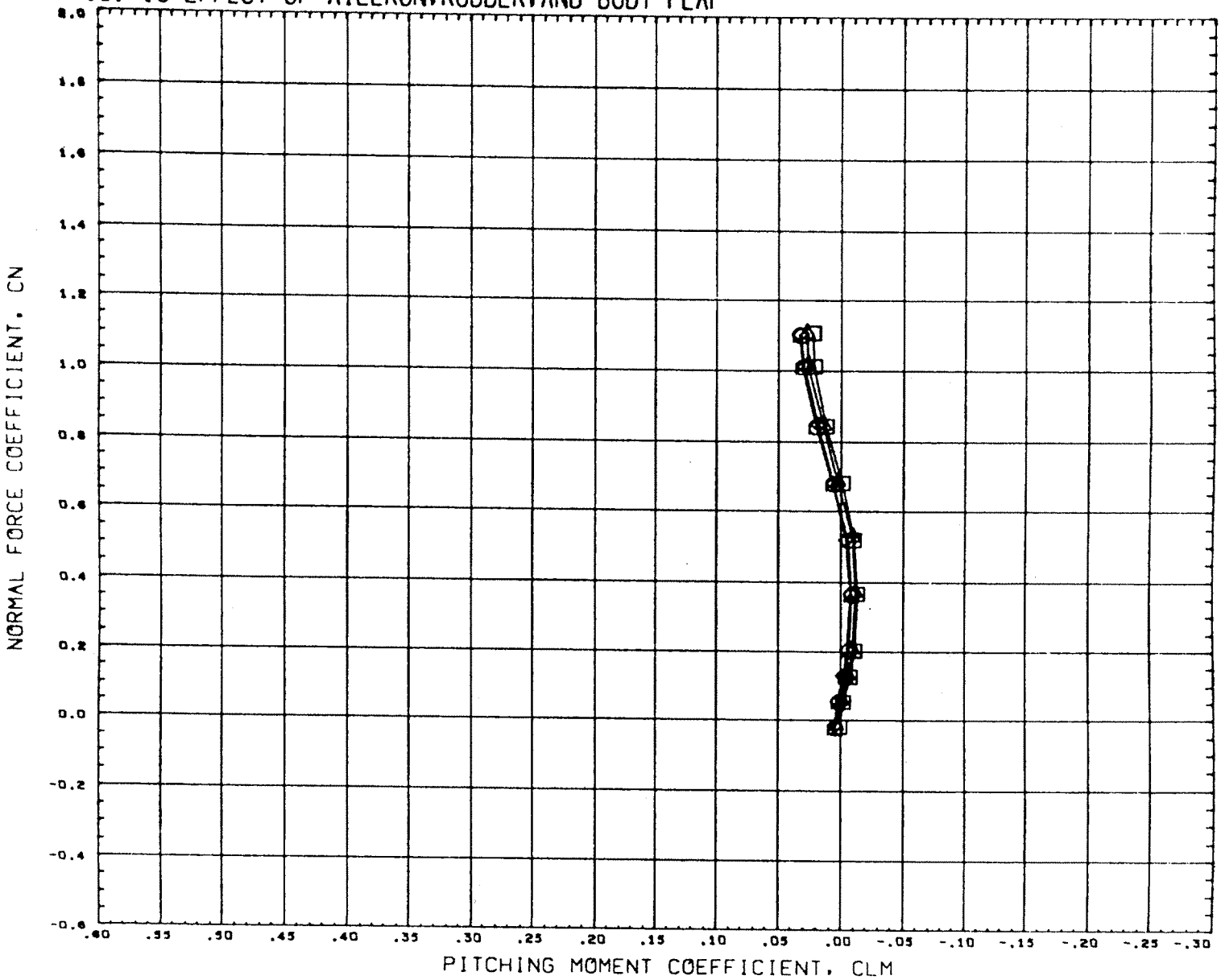


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



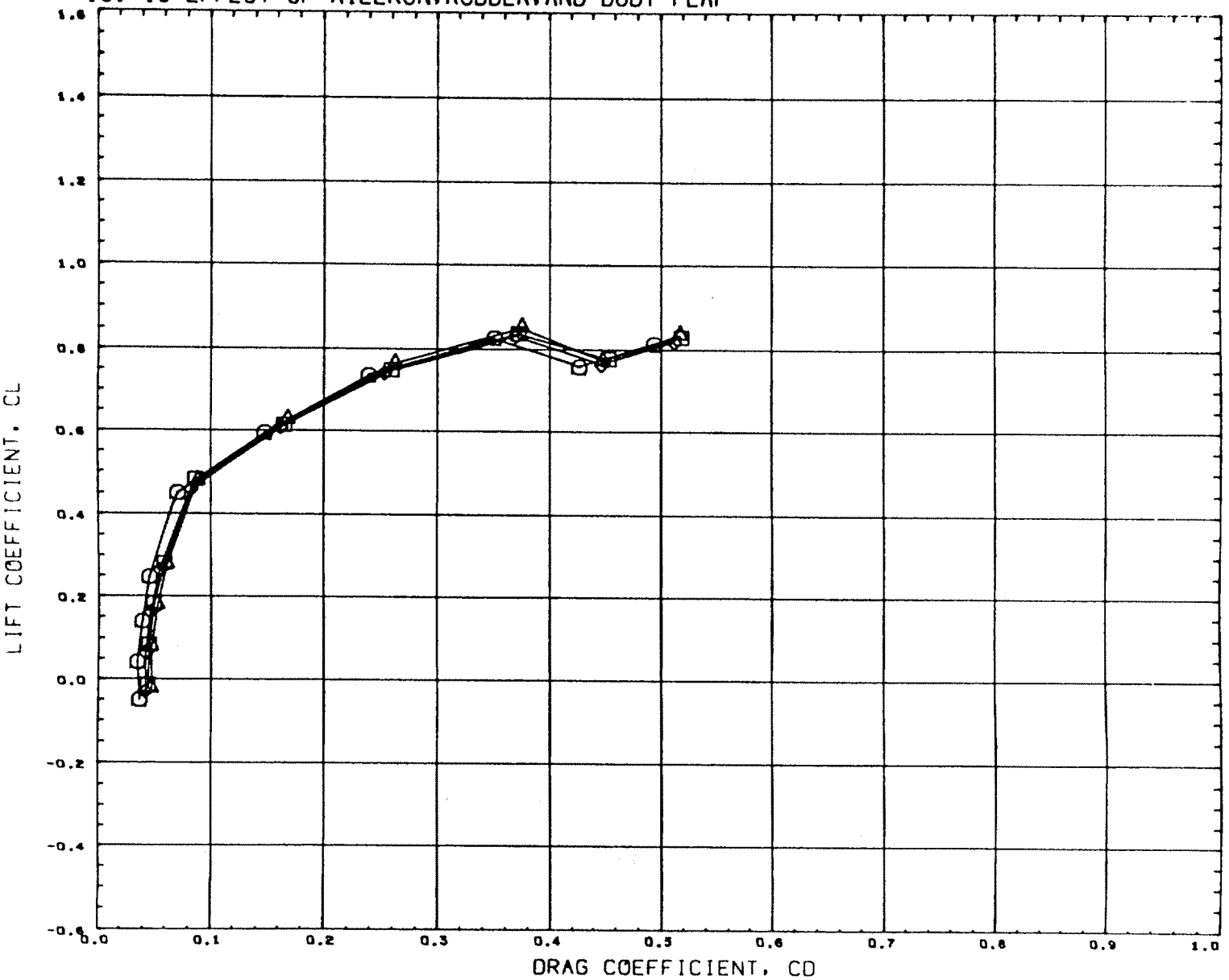
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CBA250)	○	AMES 66-563 B22C8W19V10R2
(CBA258)	△	AMES 66-563 B22C8W19V10R2
(CBA259)	◇	AMES 66-563 B22C8W19V10R2
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	8.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

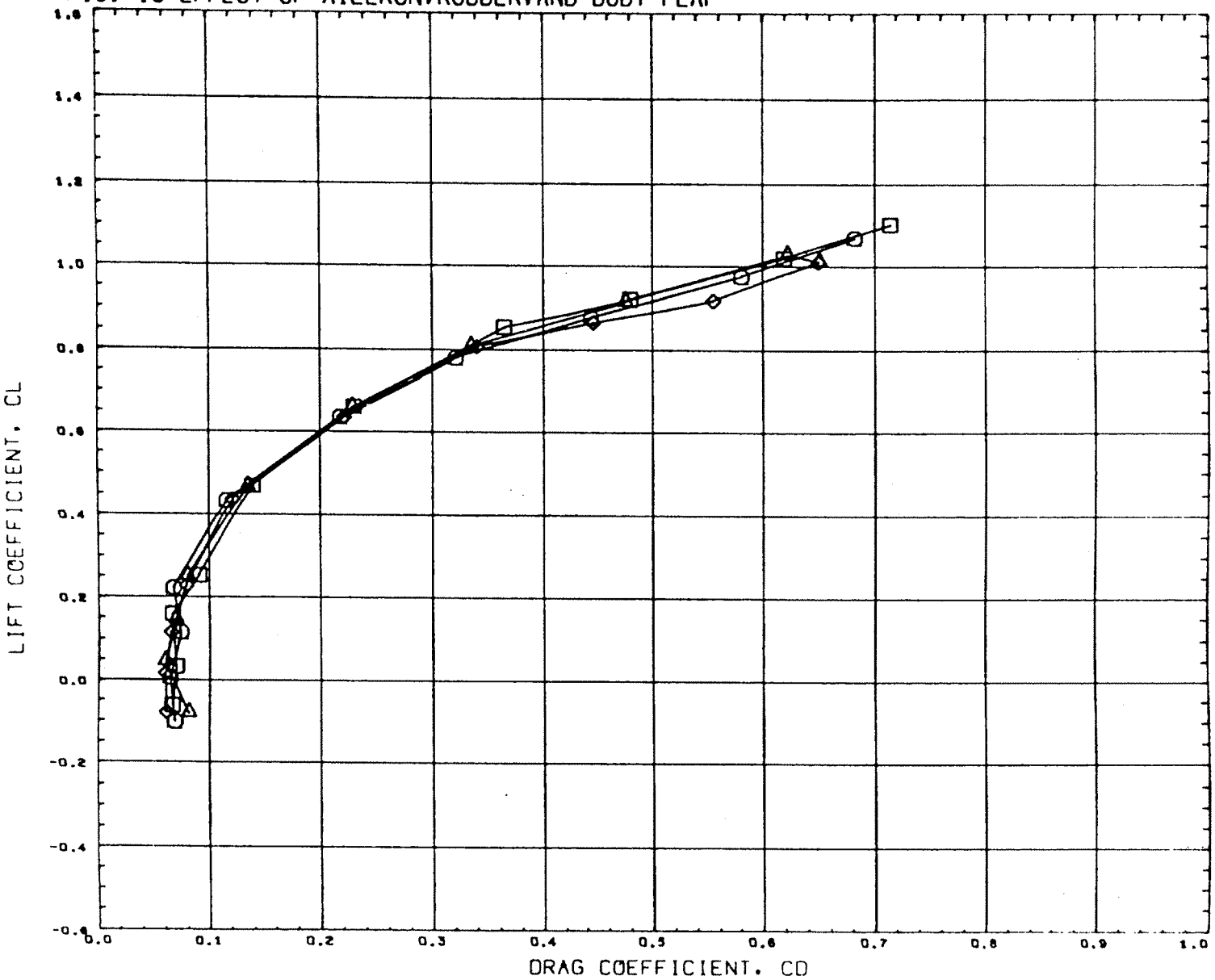


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

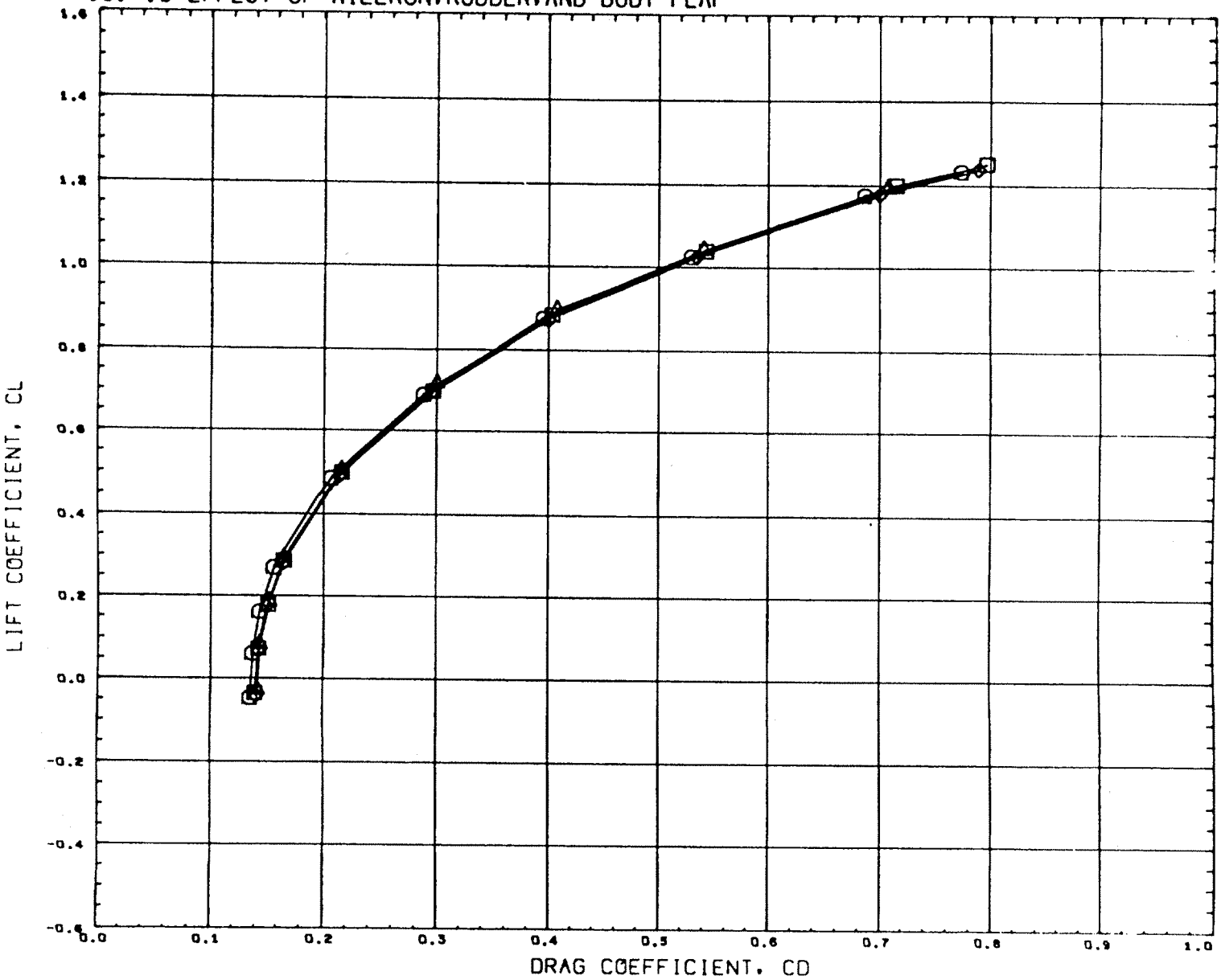


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



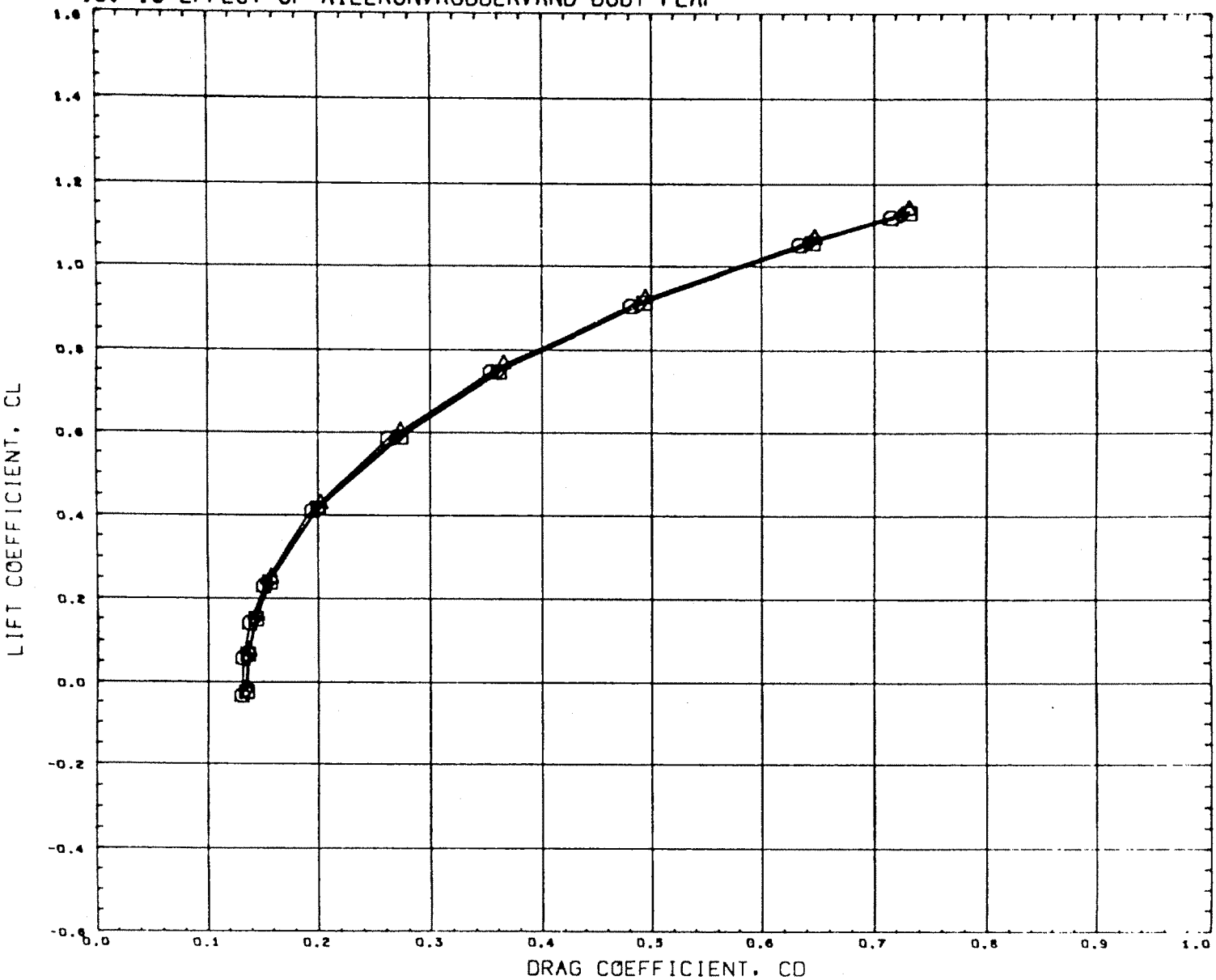
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA256)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

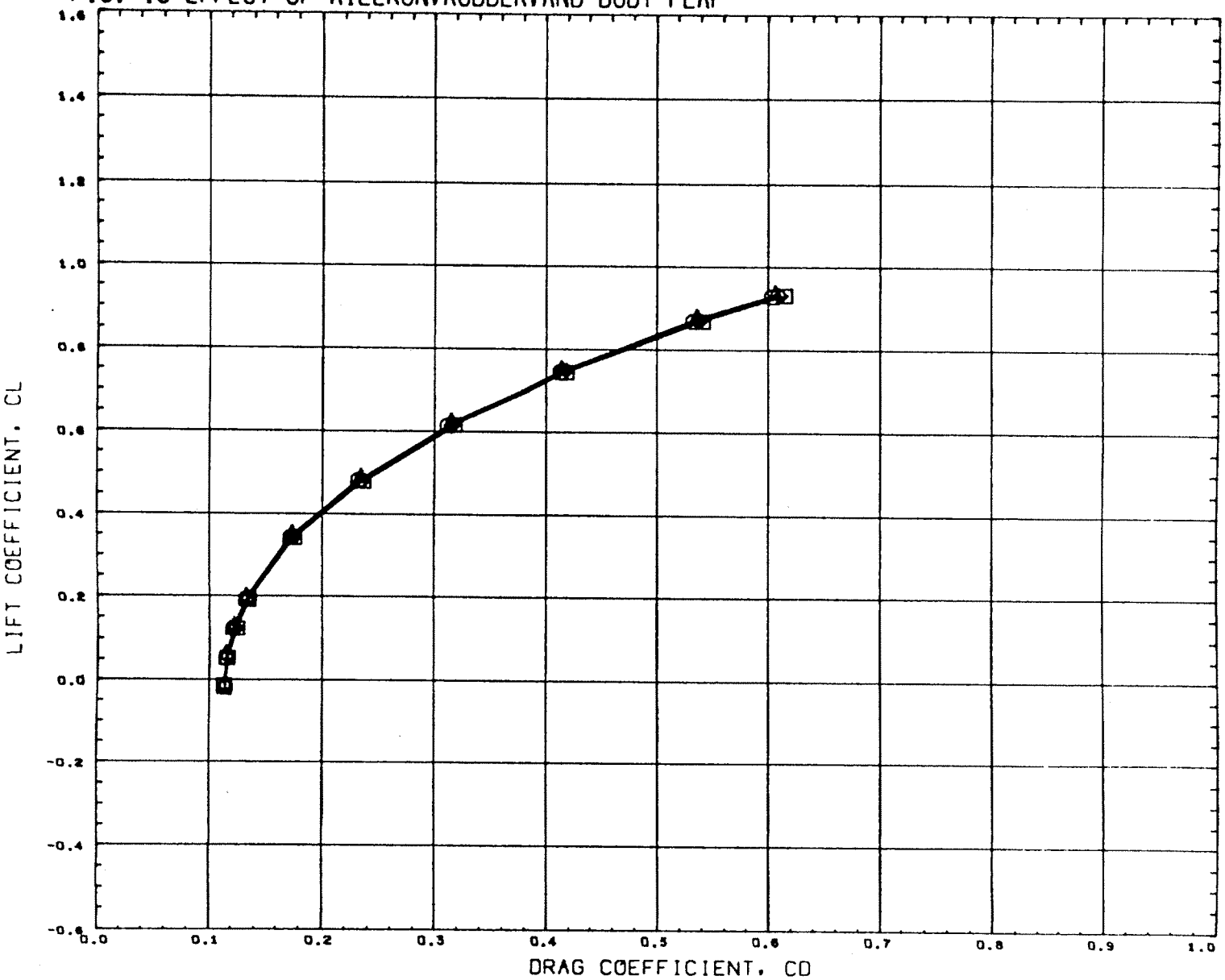


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

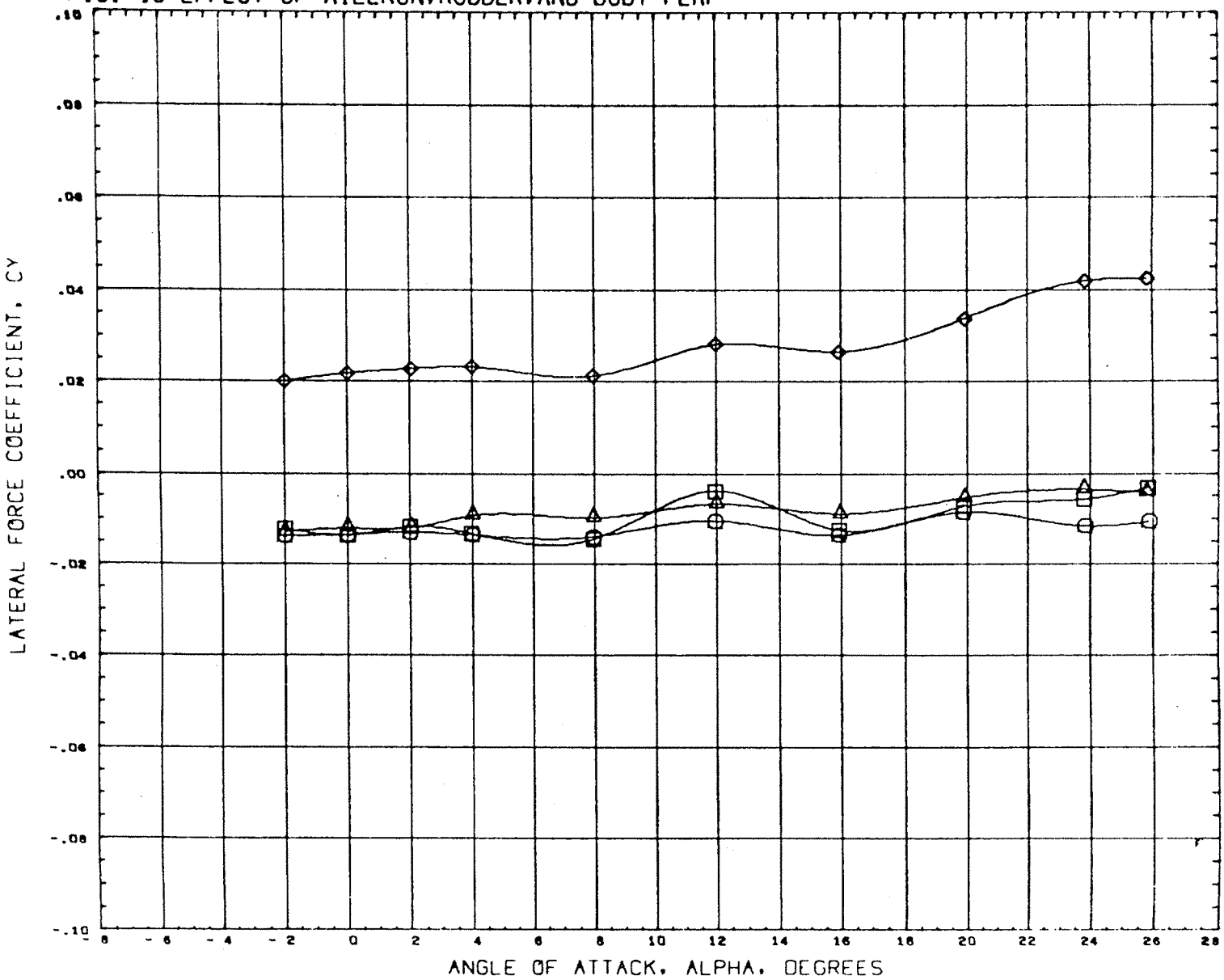


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(CBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(CBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(CBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(CBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

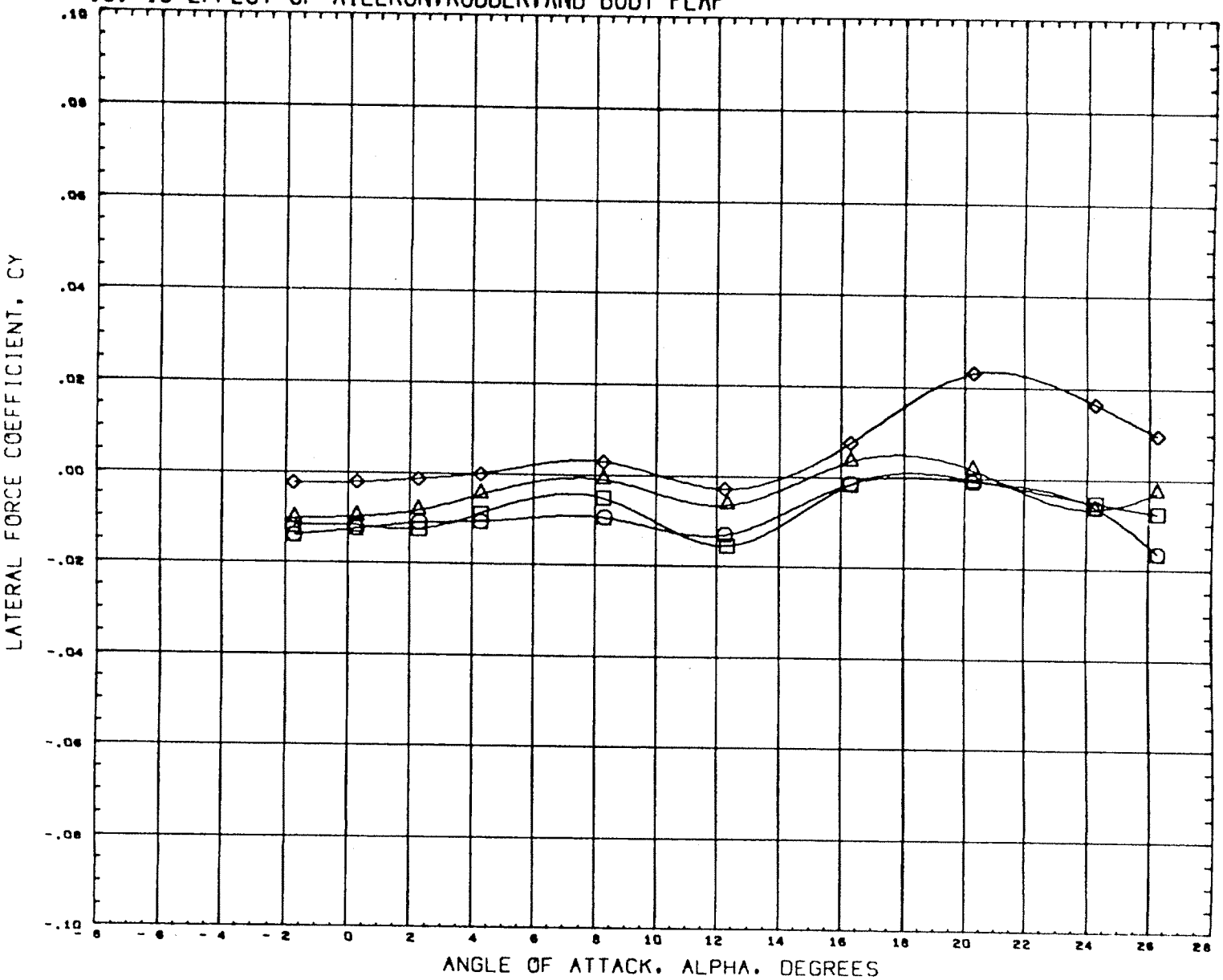


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



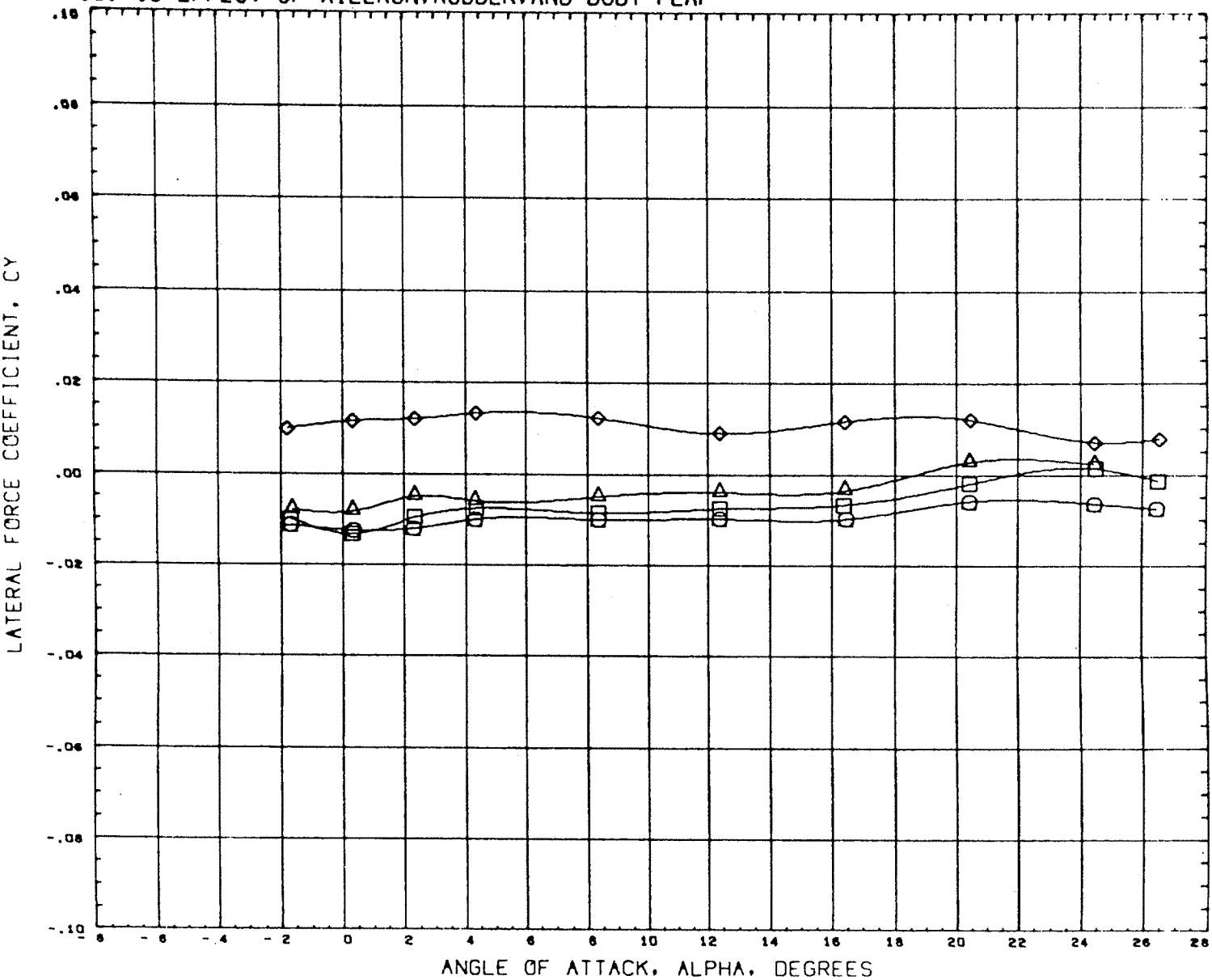
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

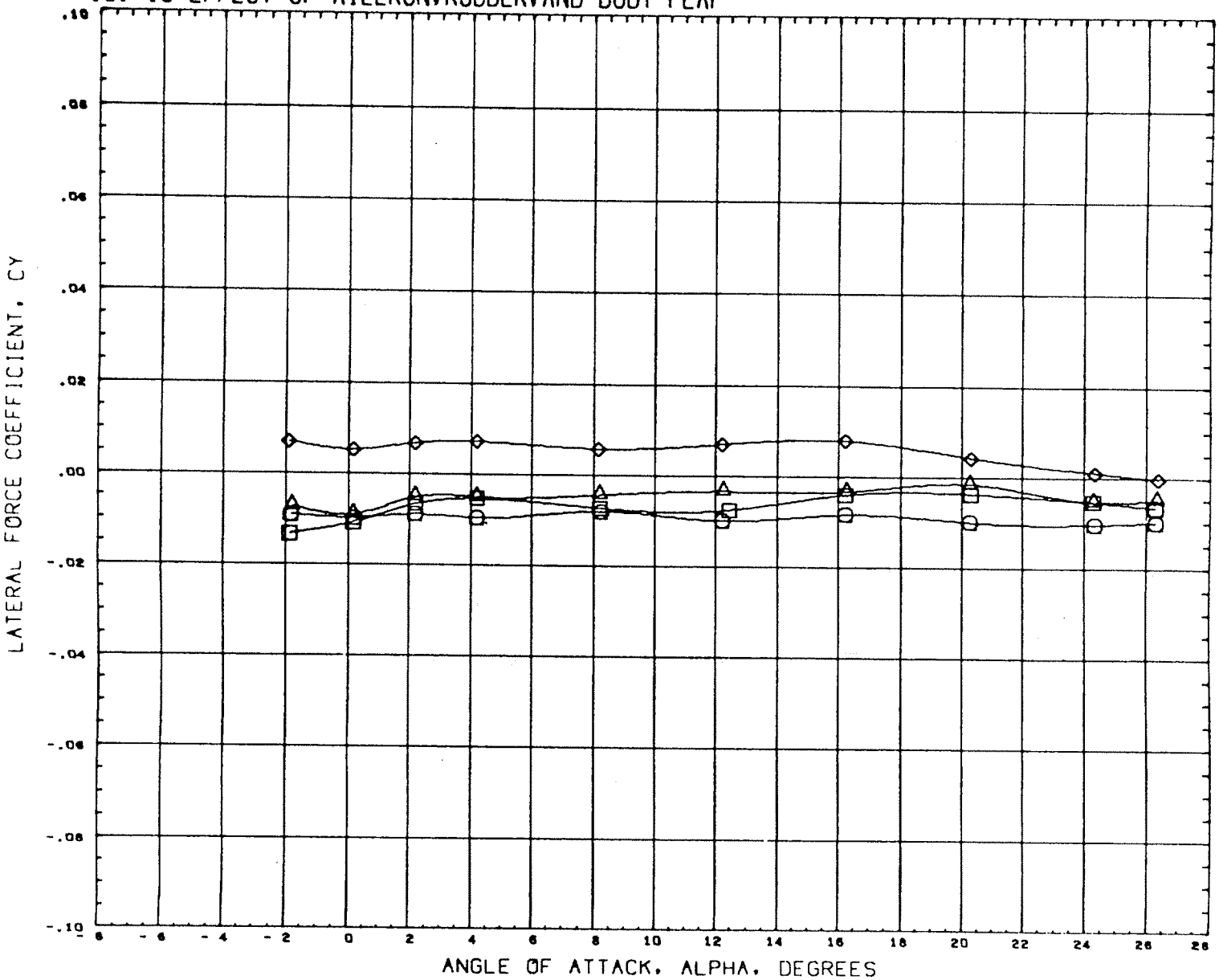


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

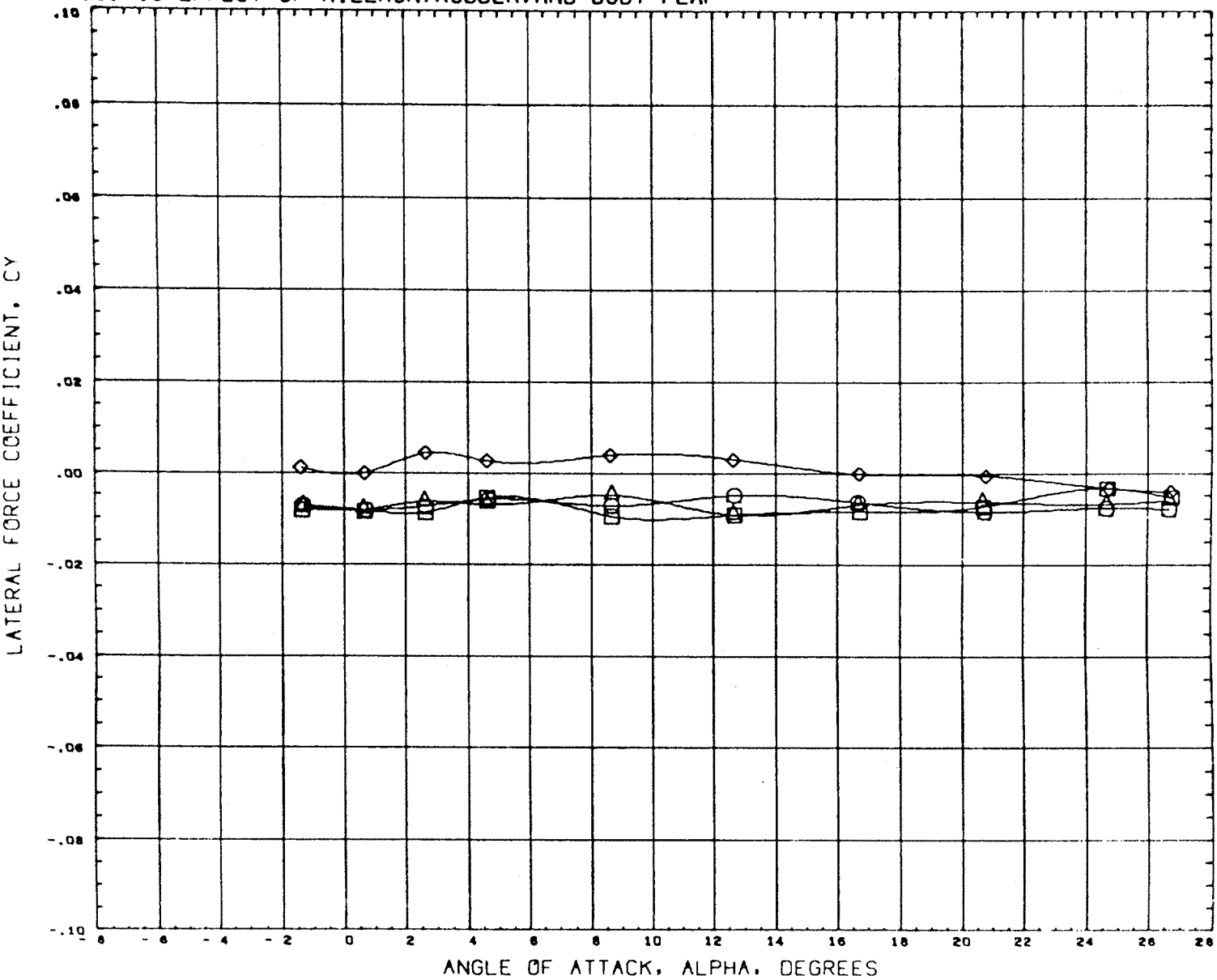


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2.	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

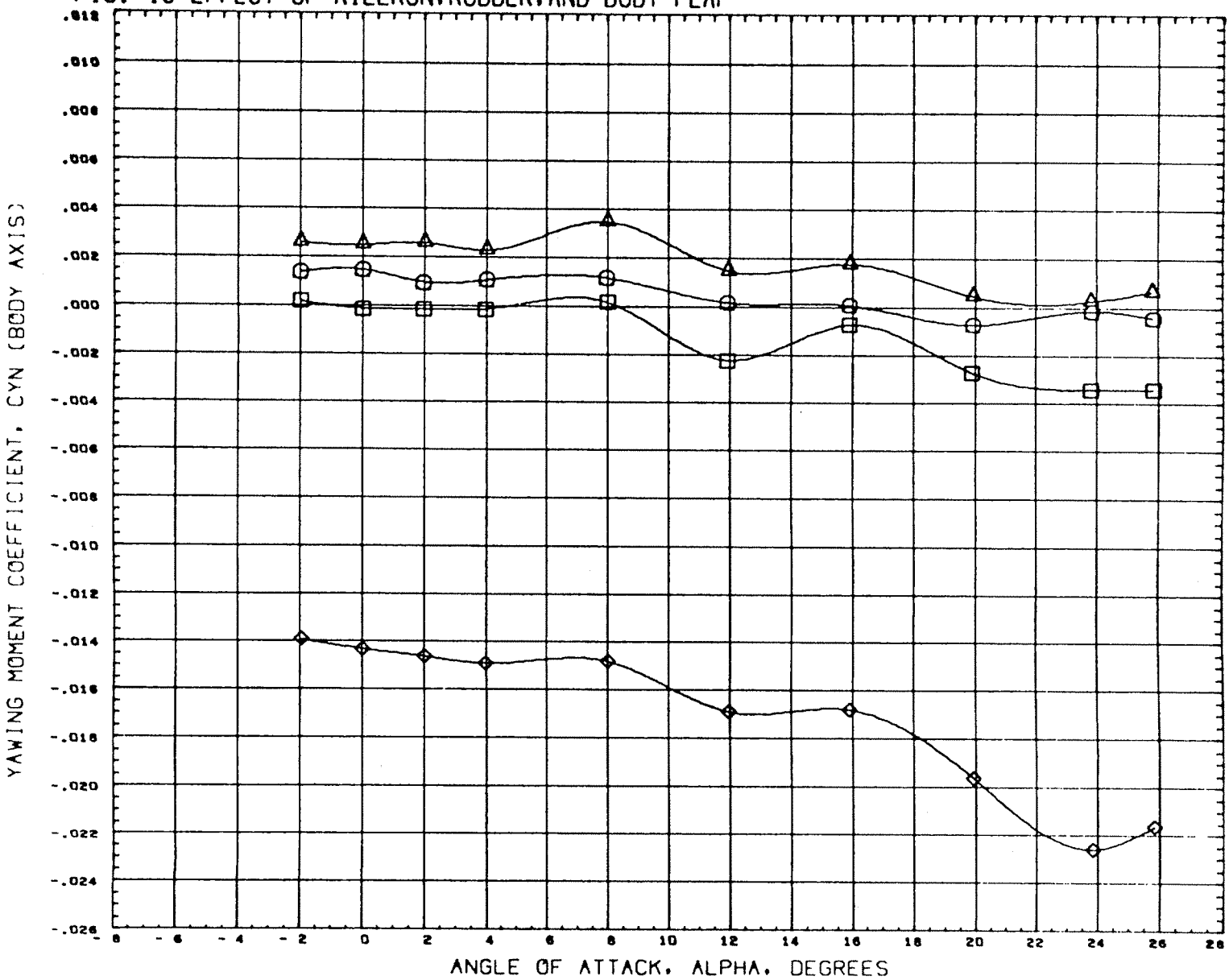


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA230)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA238)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA239)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	⬠	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



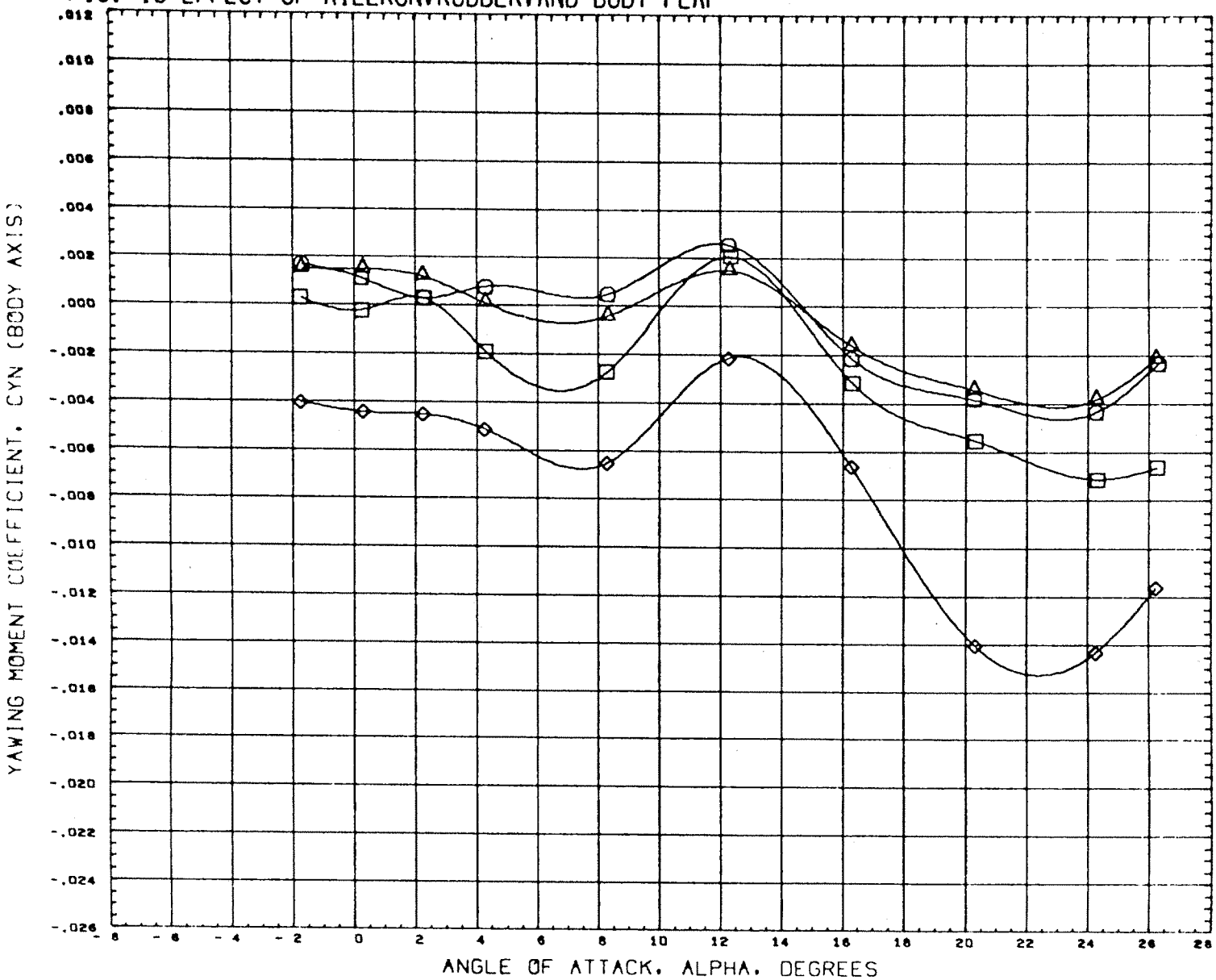
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

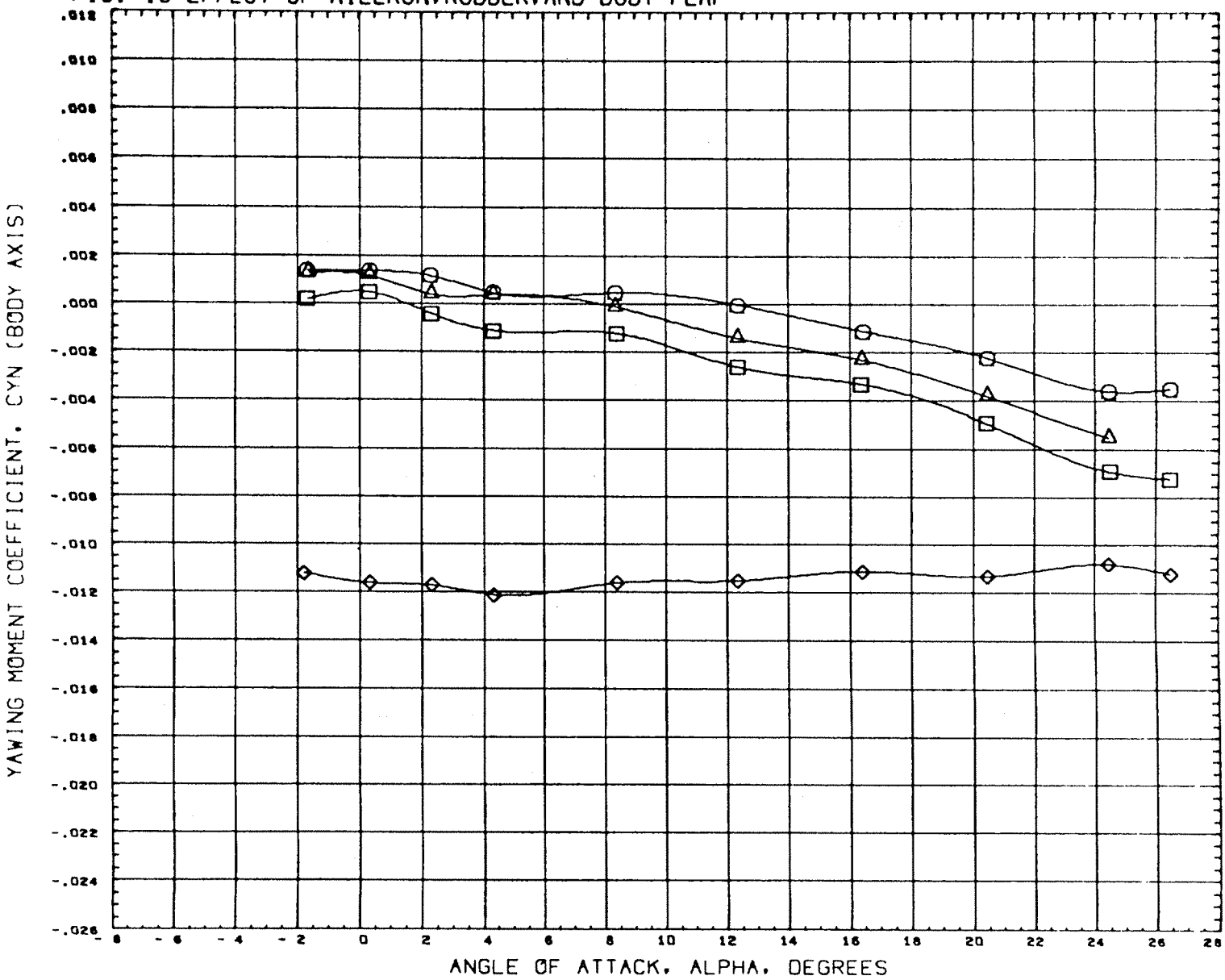


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

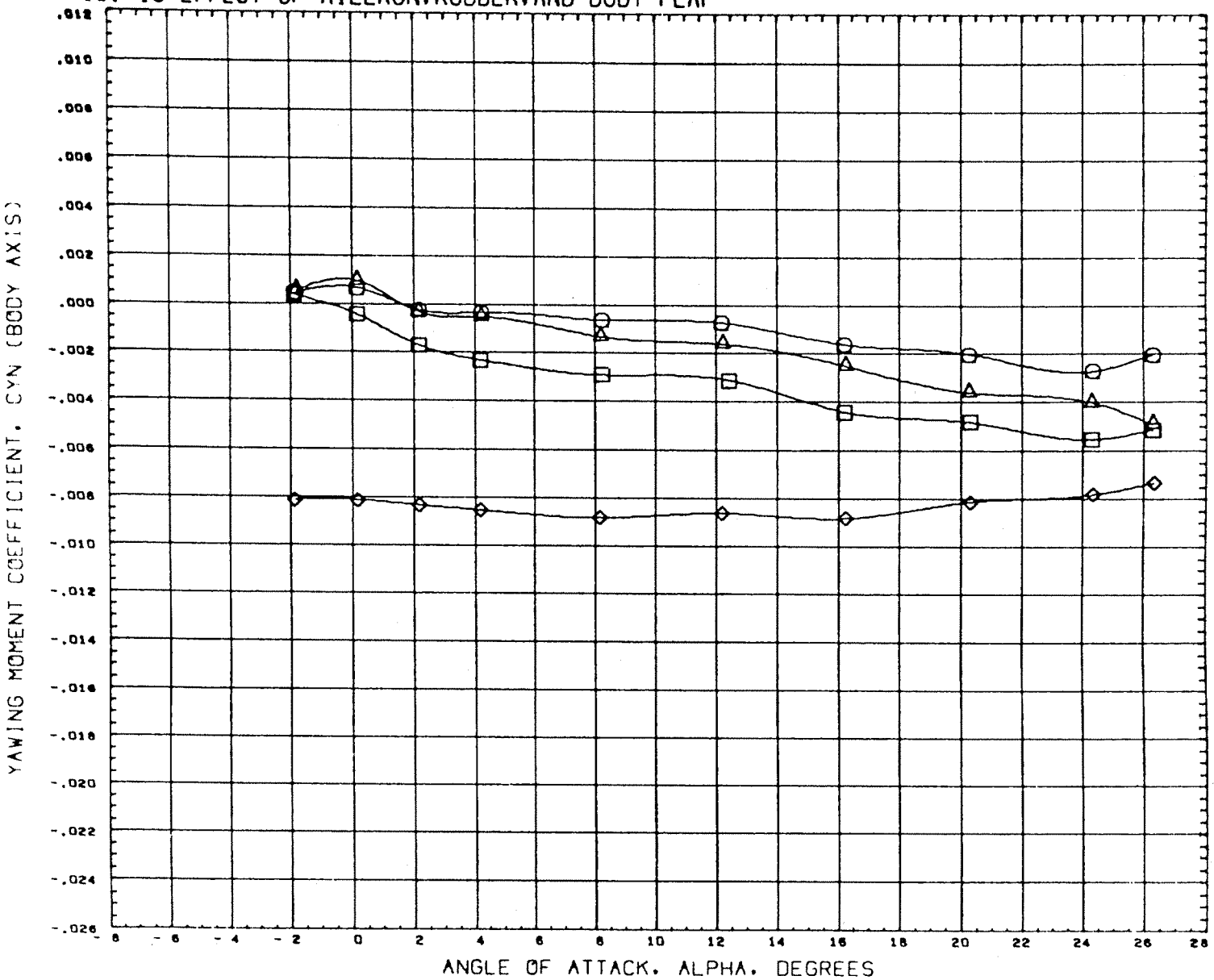


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

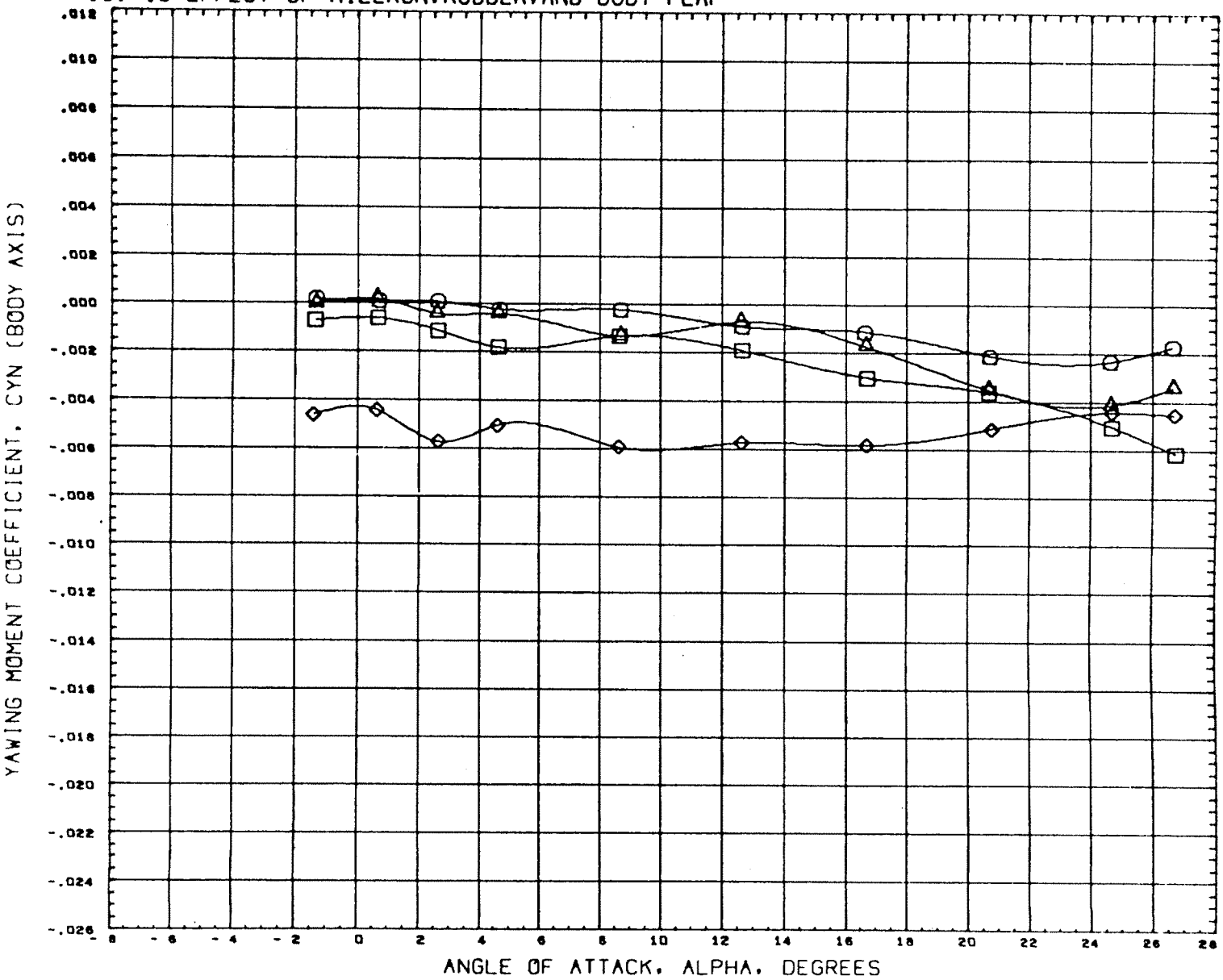


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

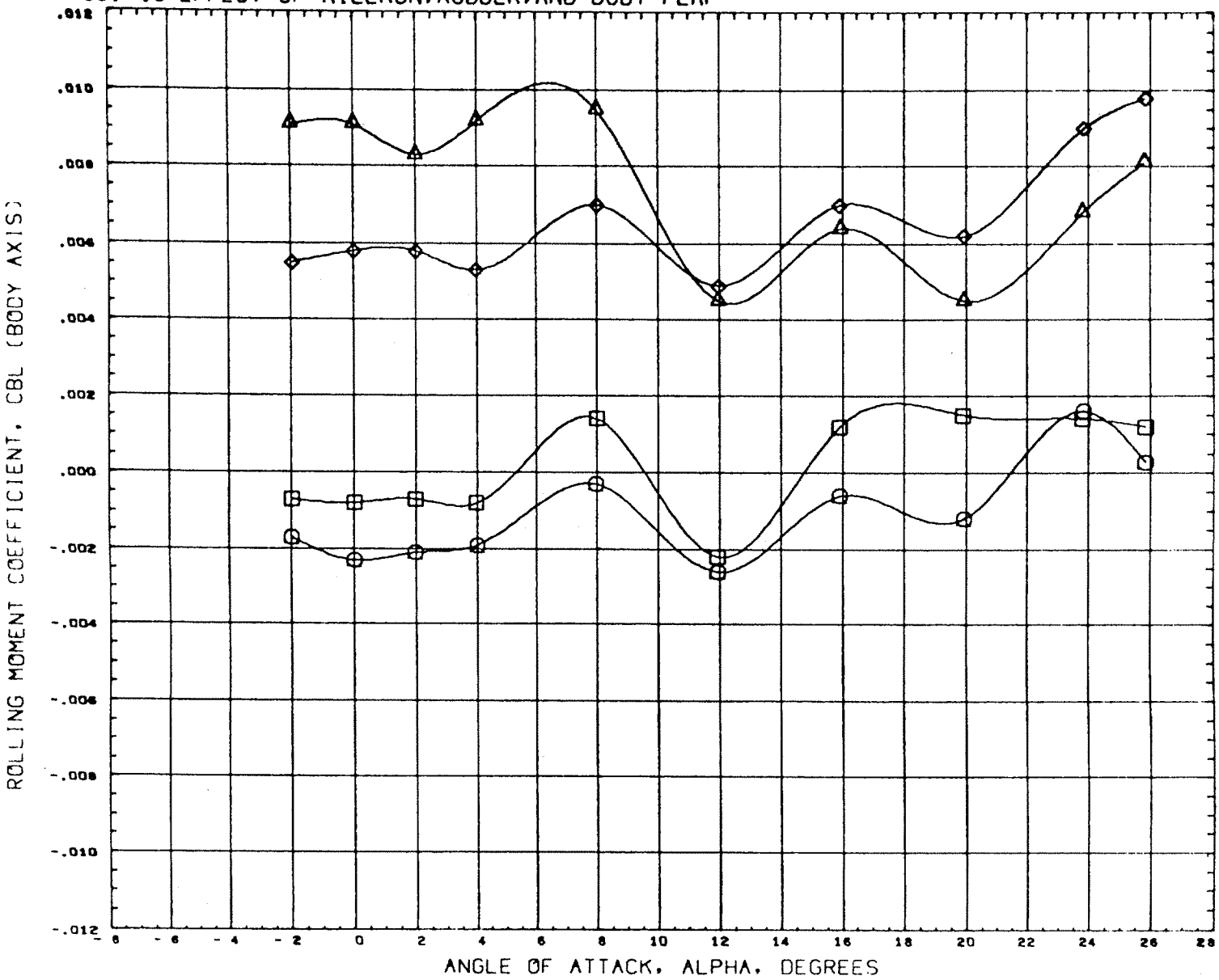


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

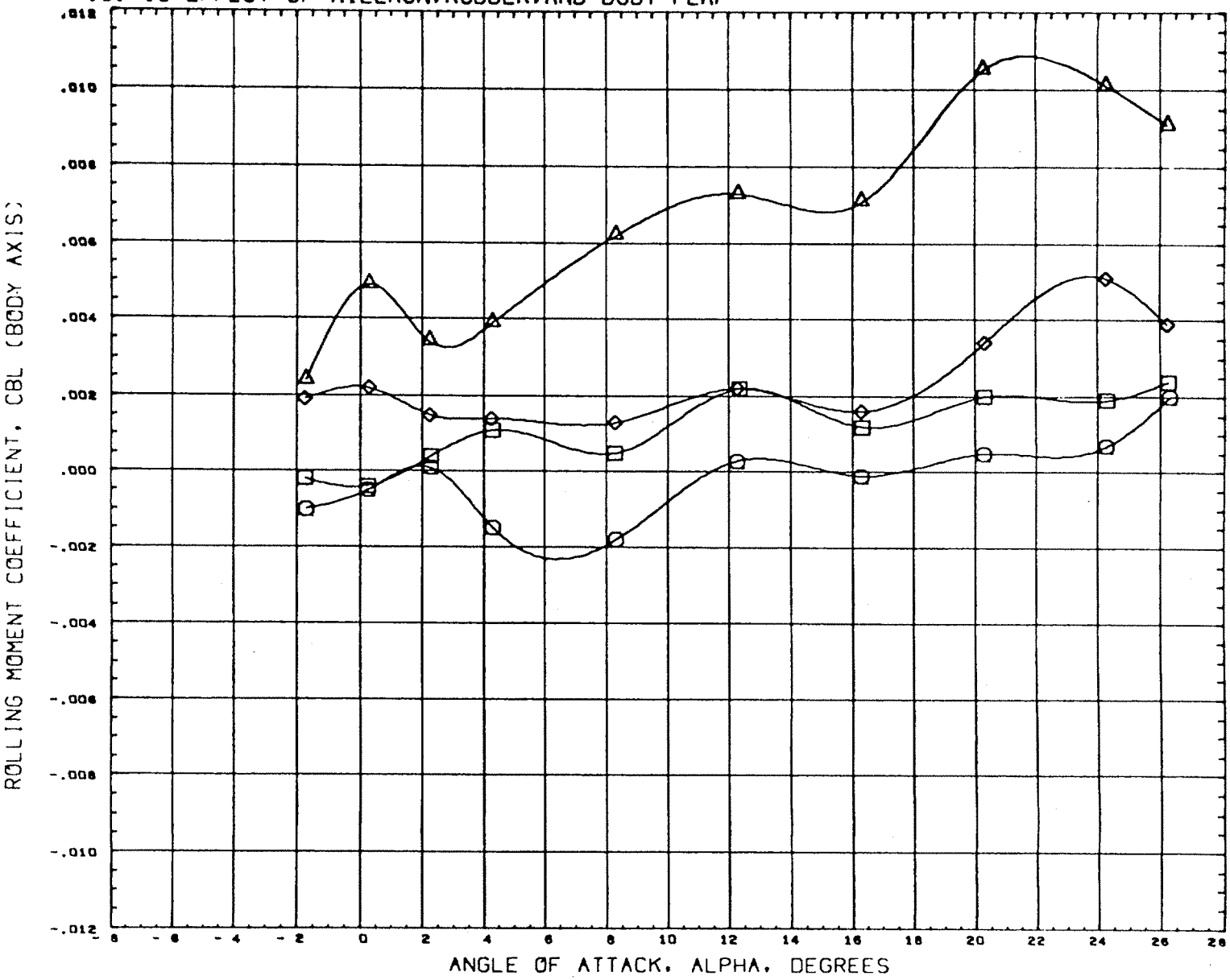


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

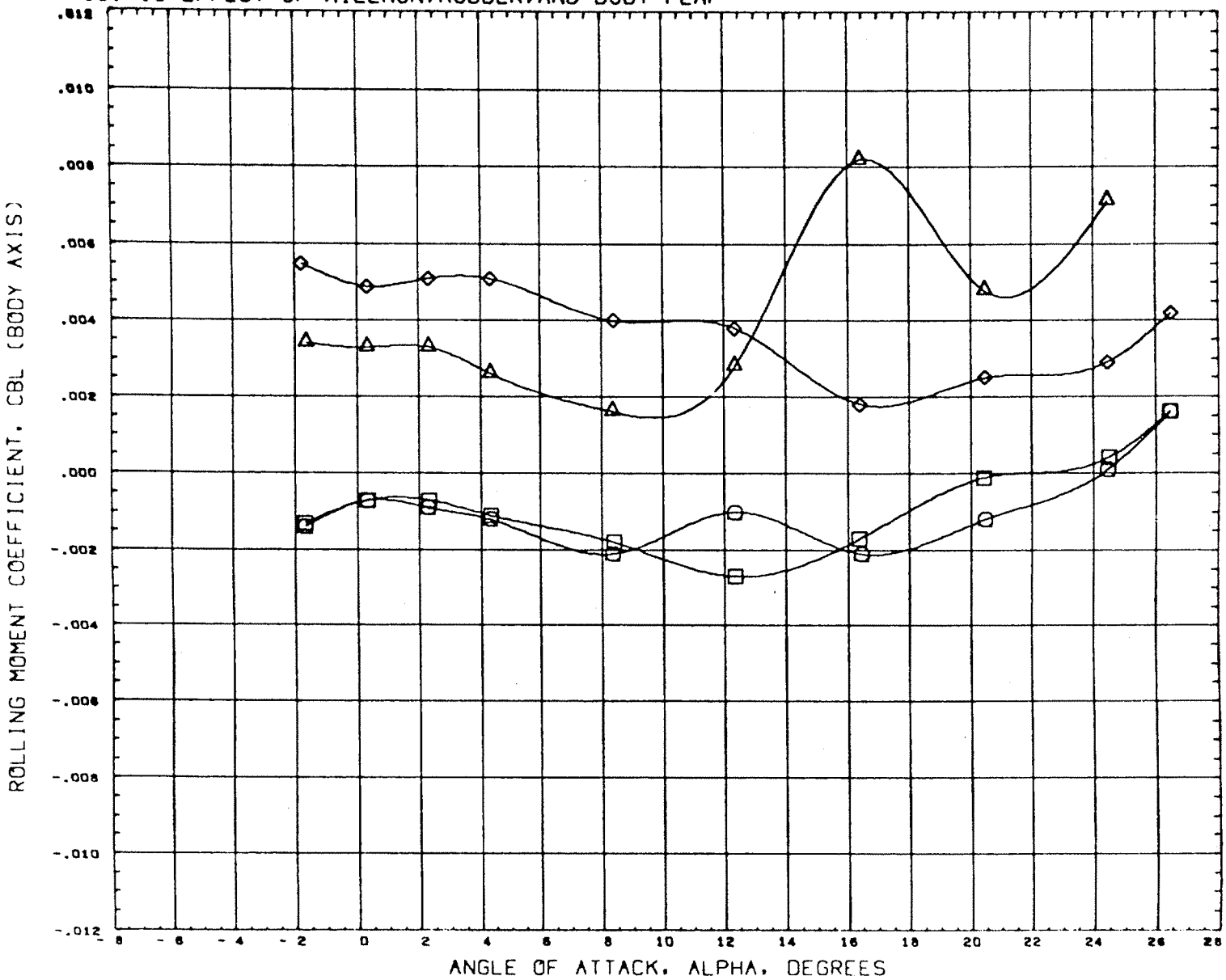


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(OBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(OBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(OBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(OBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

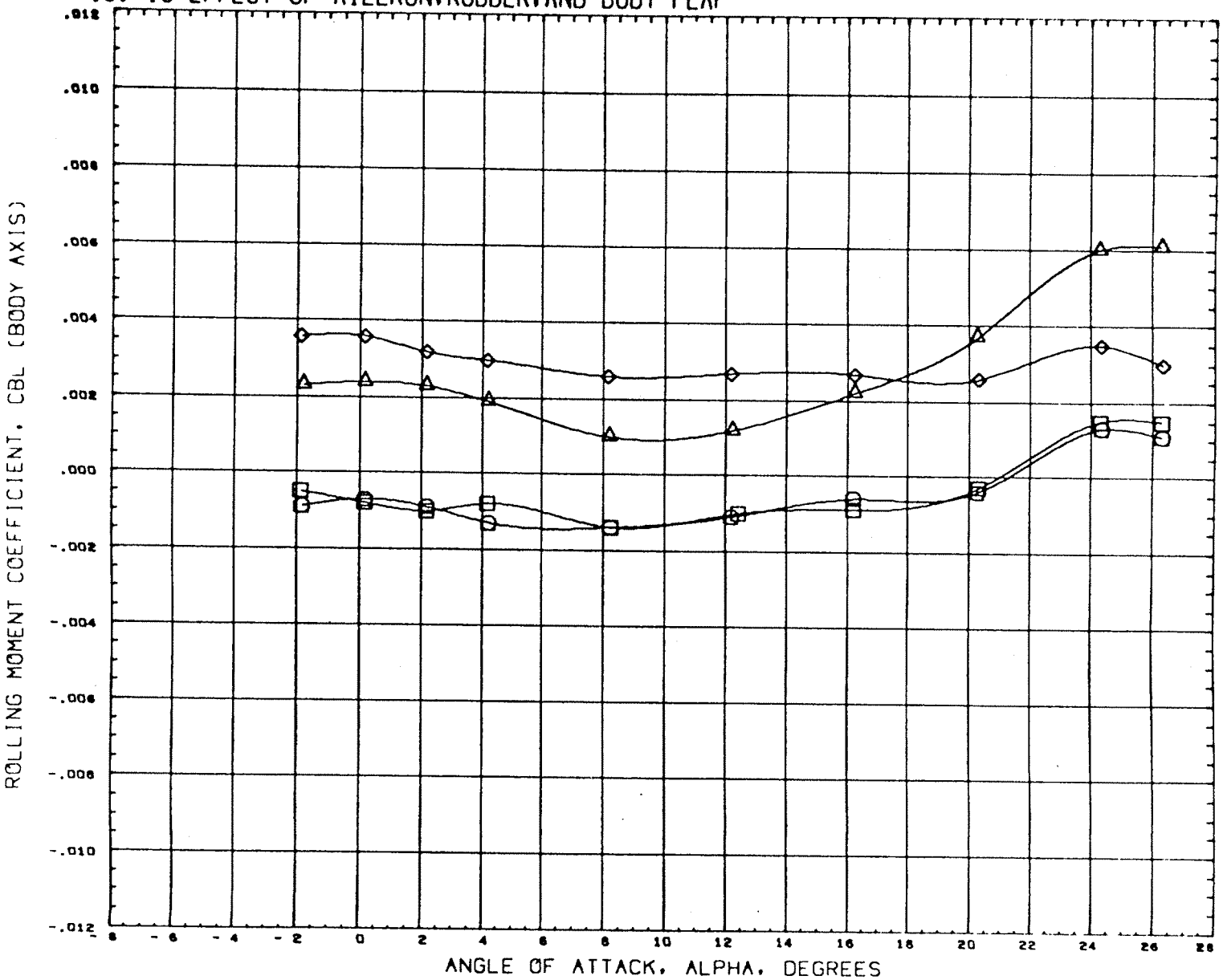


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

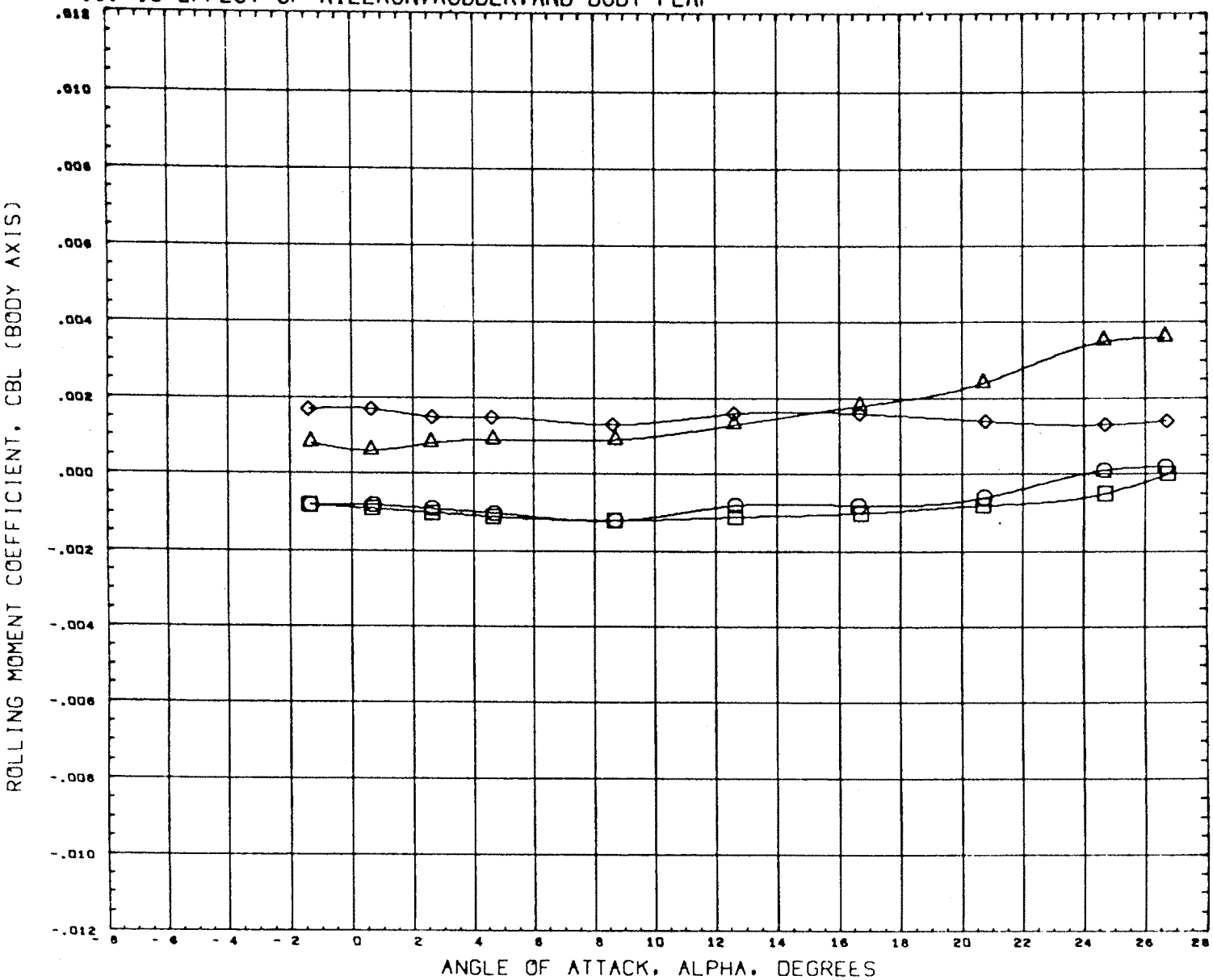


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

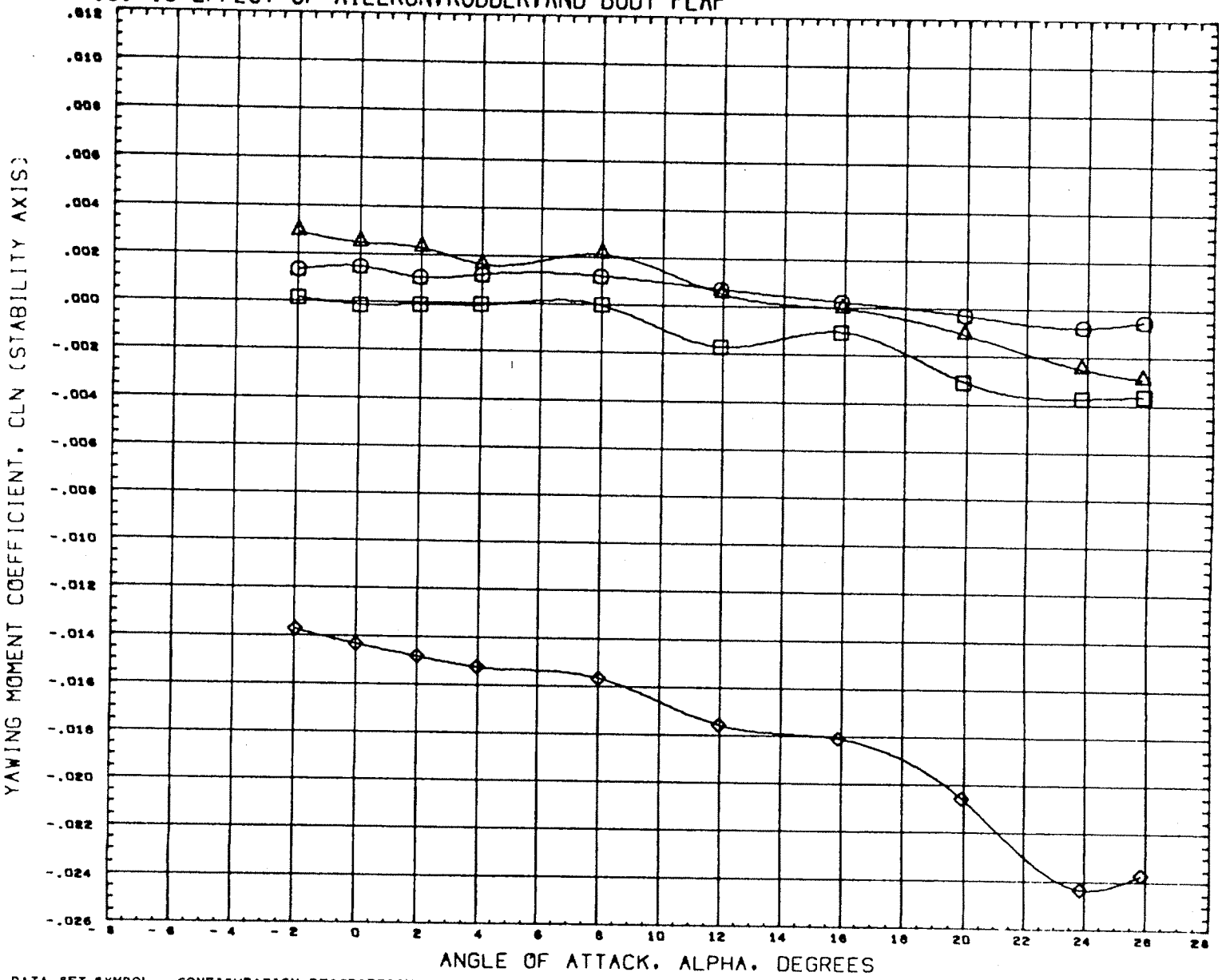


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

MACH 2.004

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP



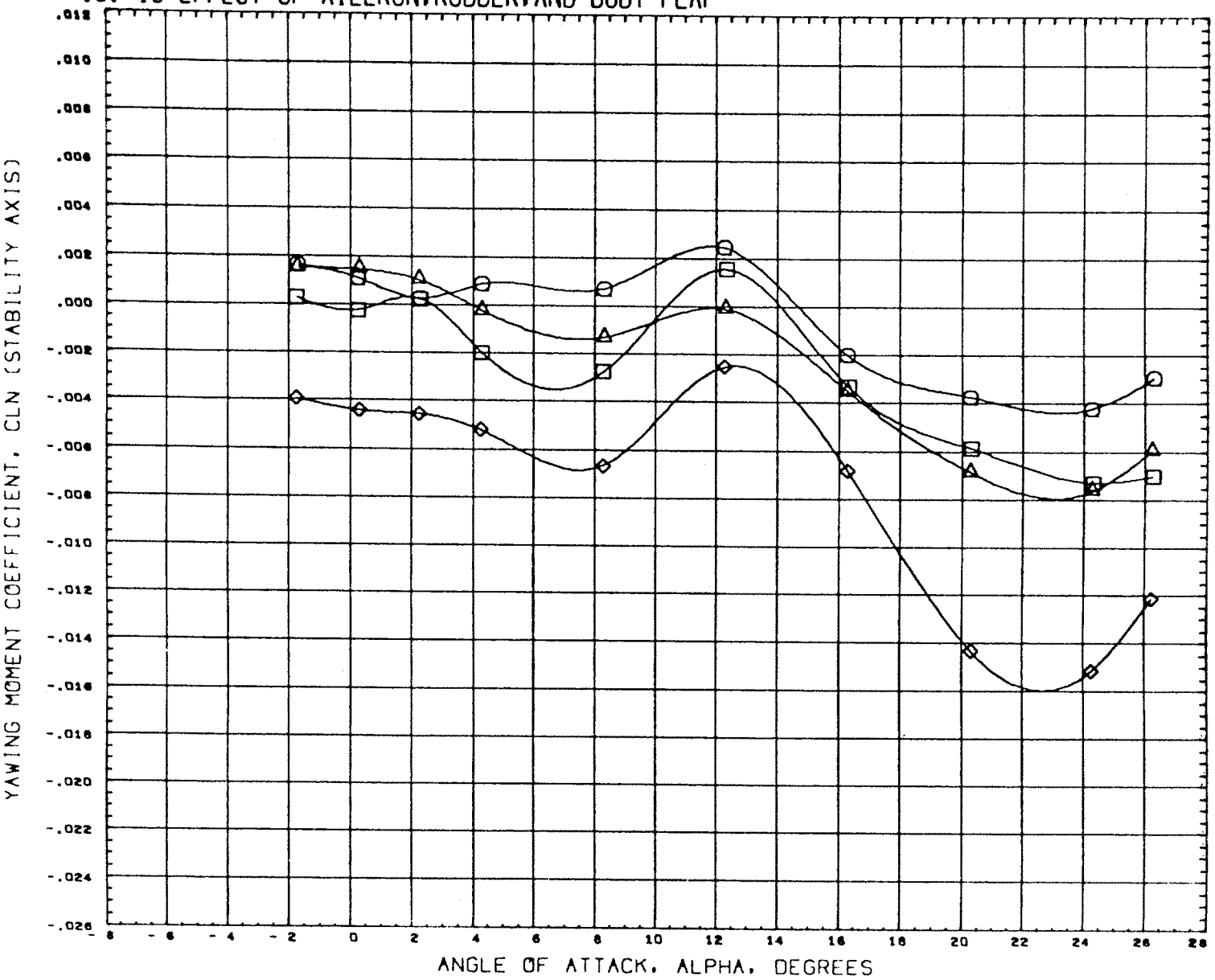
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DBA250)	○	AMES 66-563 B22C8W19V10R2
(DBA258)	△	AMES 66-563 B22C8W19V10R2
(DBA259)	◇	AMES 66-563 B22C8W19V10R2
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L

MACH 0.611

AILRON	RUDDER	DF	BETA
0.000	0.000		0.000
10.000	0.000		0.000
0.000	10.000		0.000
0.000	0.000	40.000	0.000

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

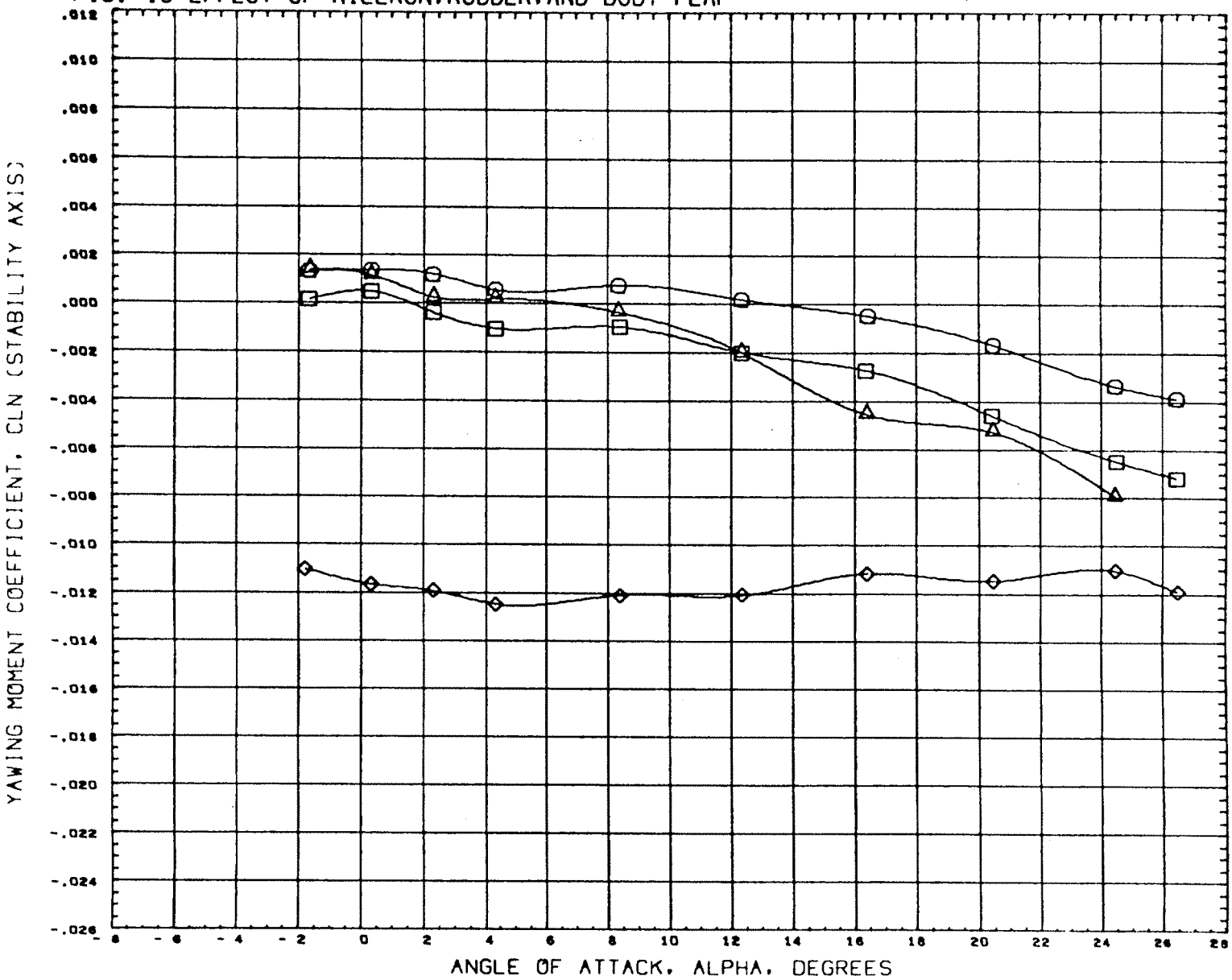


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.6500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

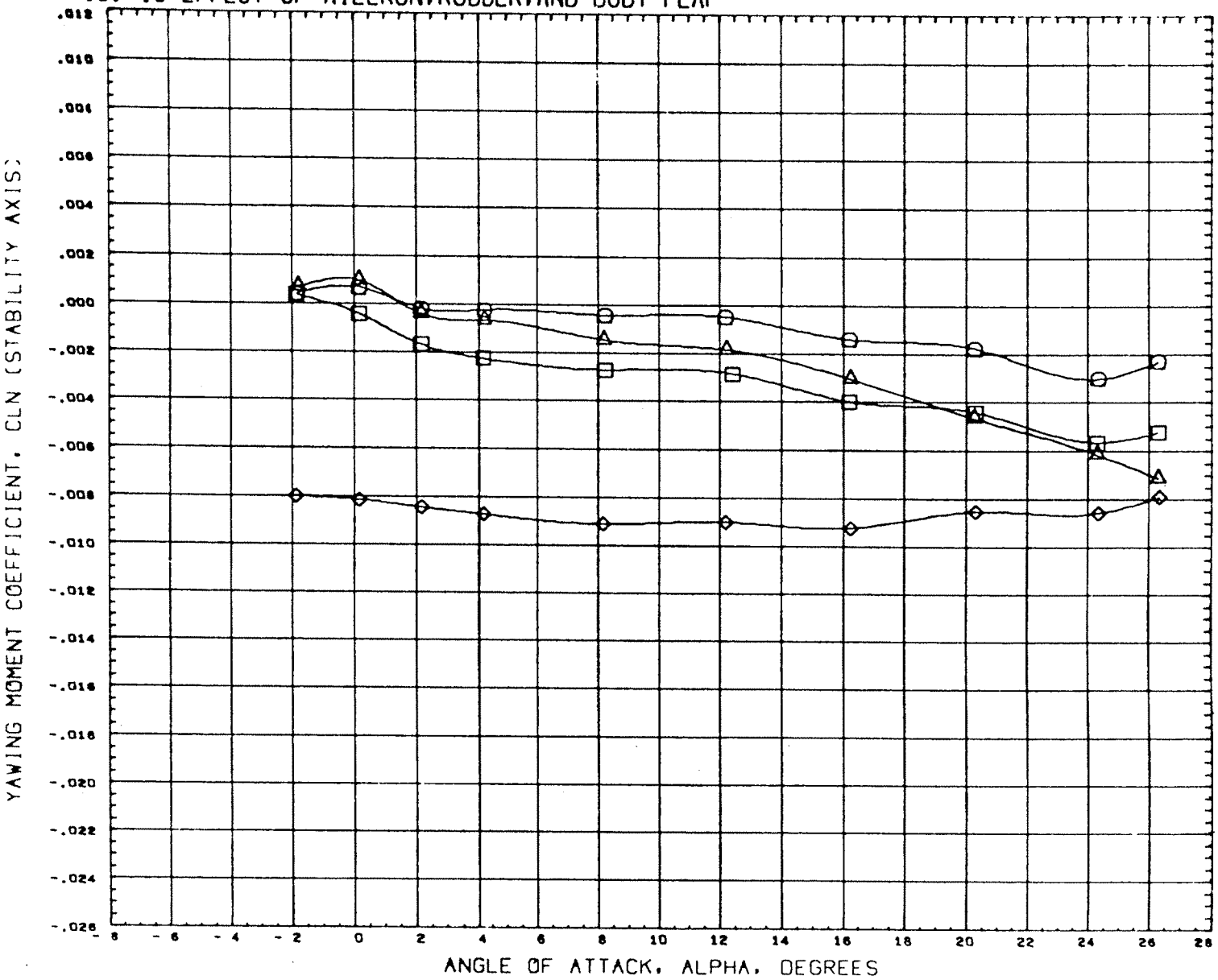


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0660	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

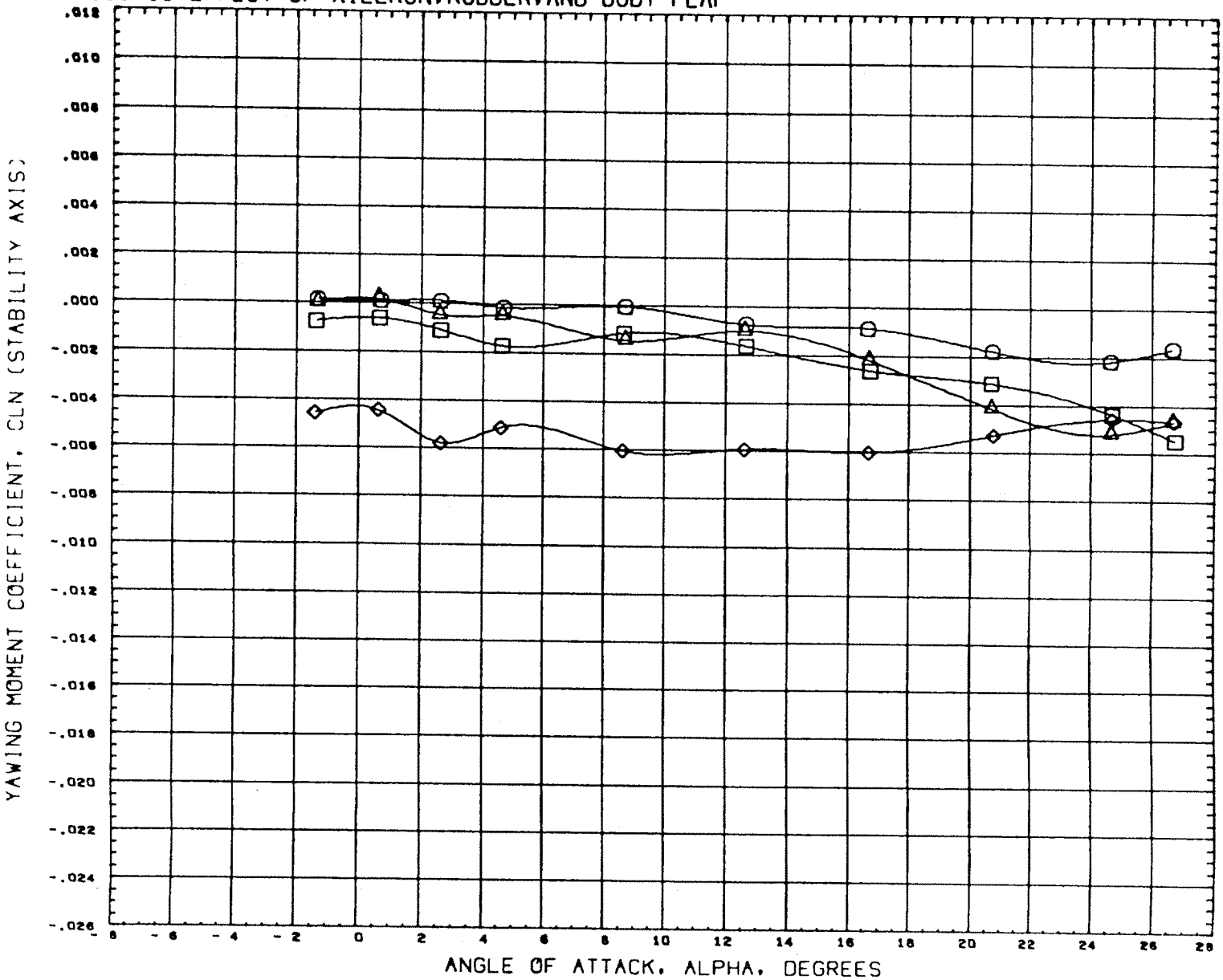


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0880	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

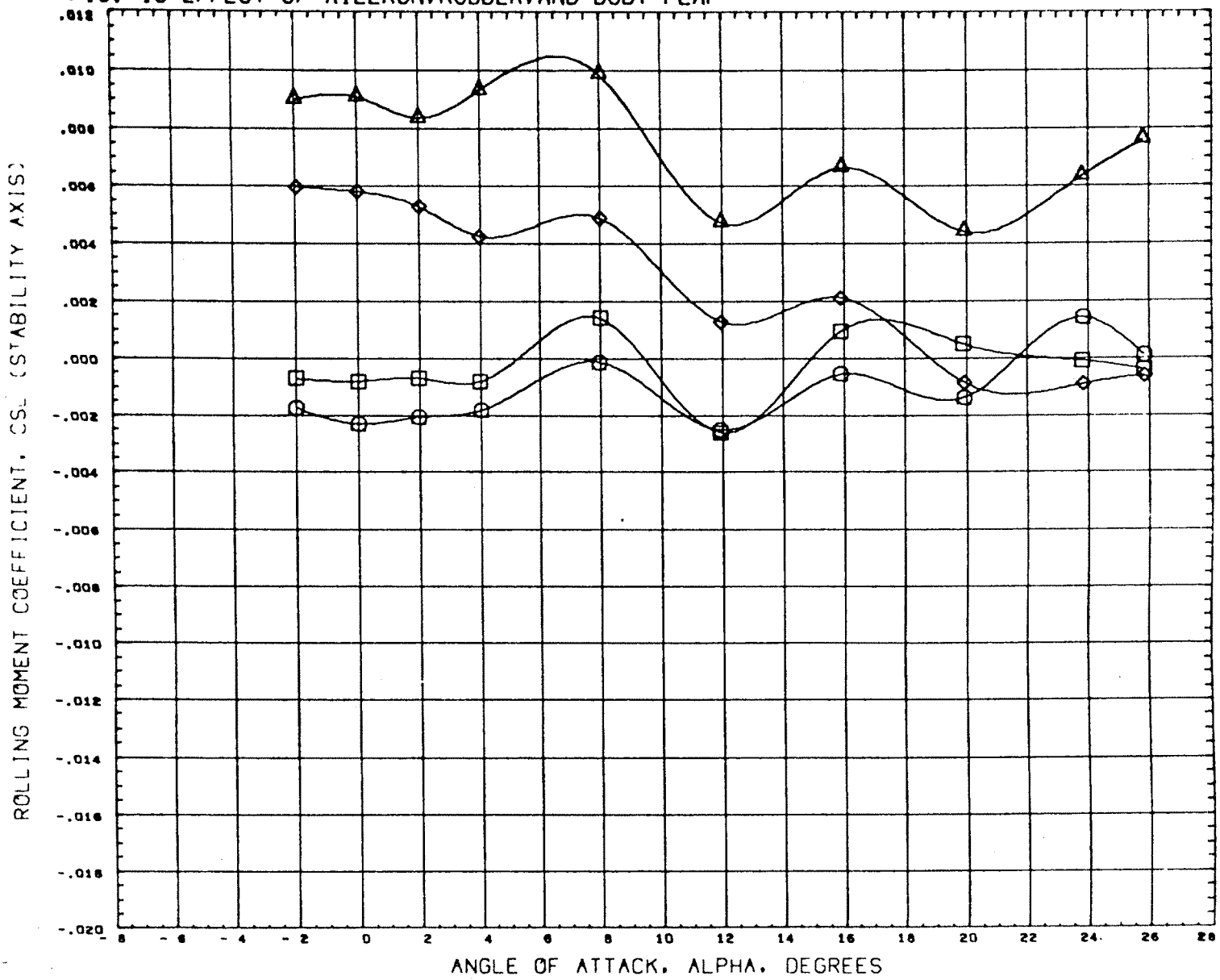


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA230)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA238)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA239)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

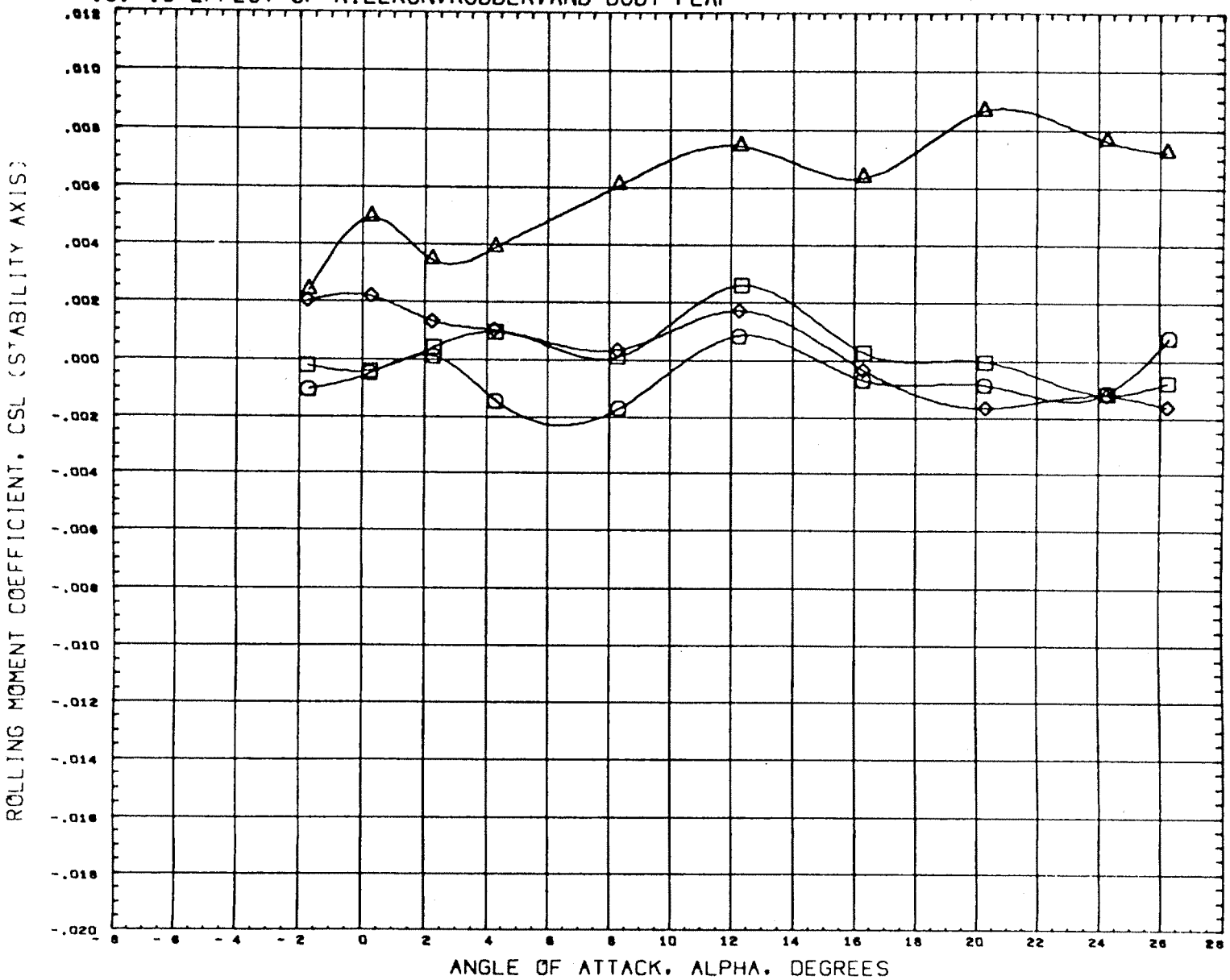


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.611

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.3410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

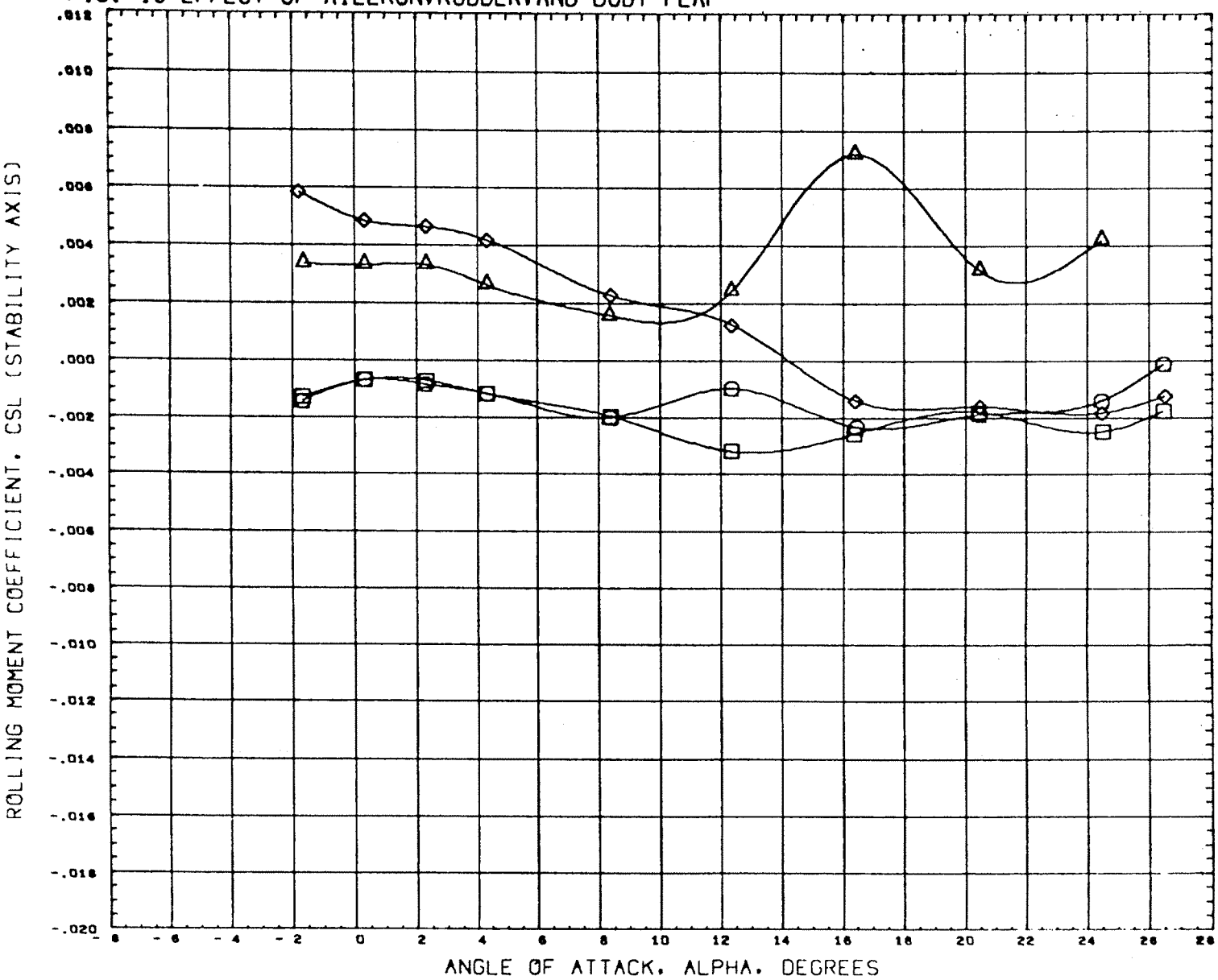


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 0.912

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

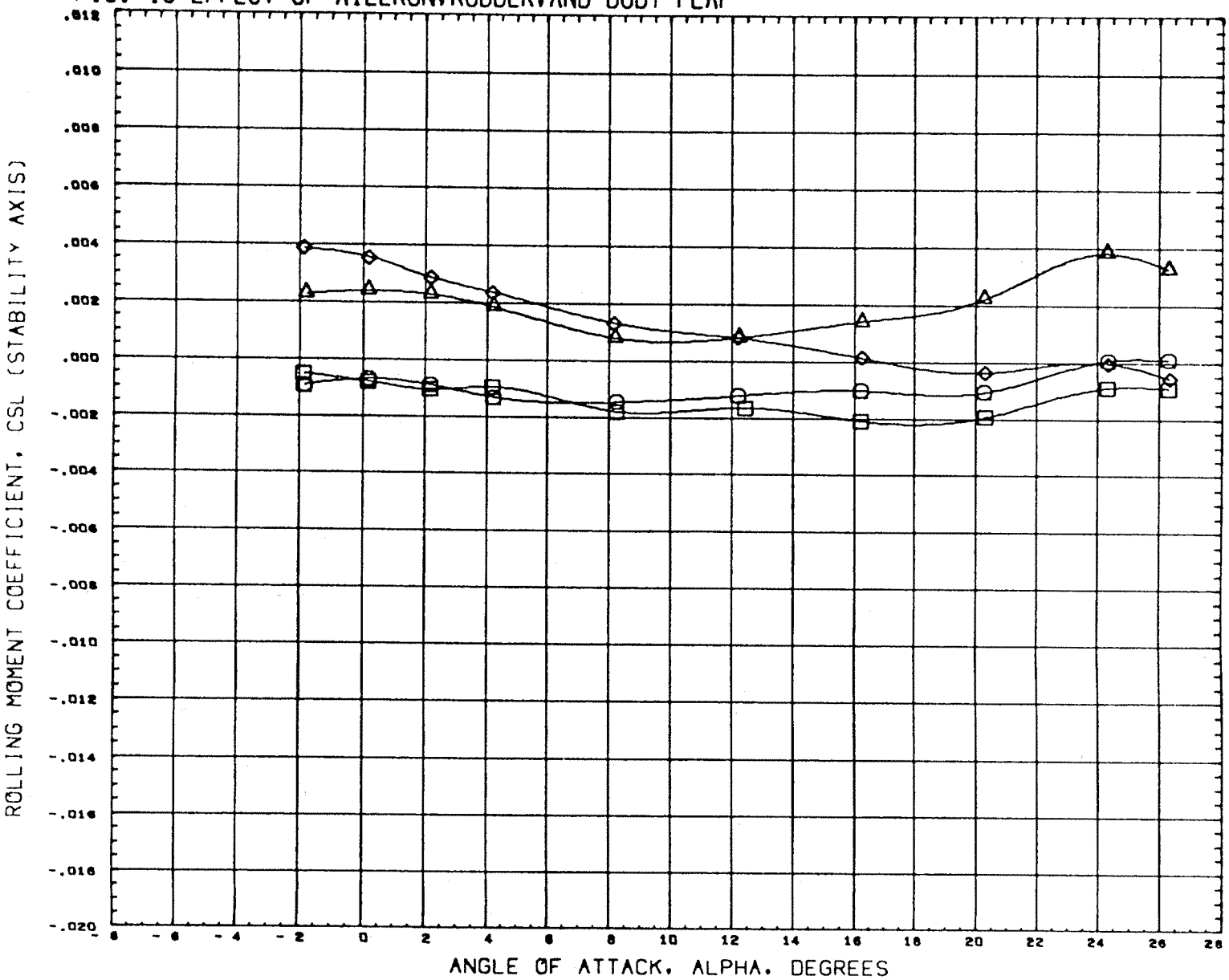


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.204

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

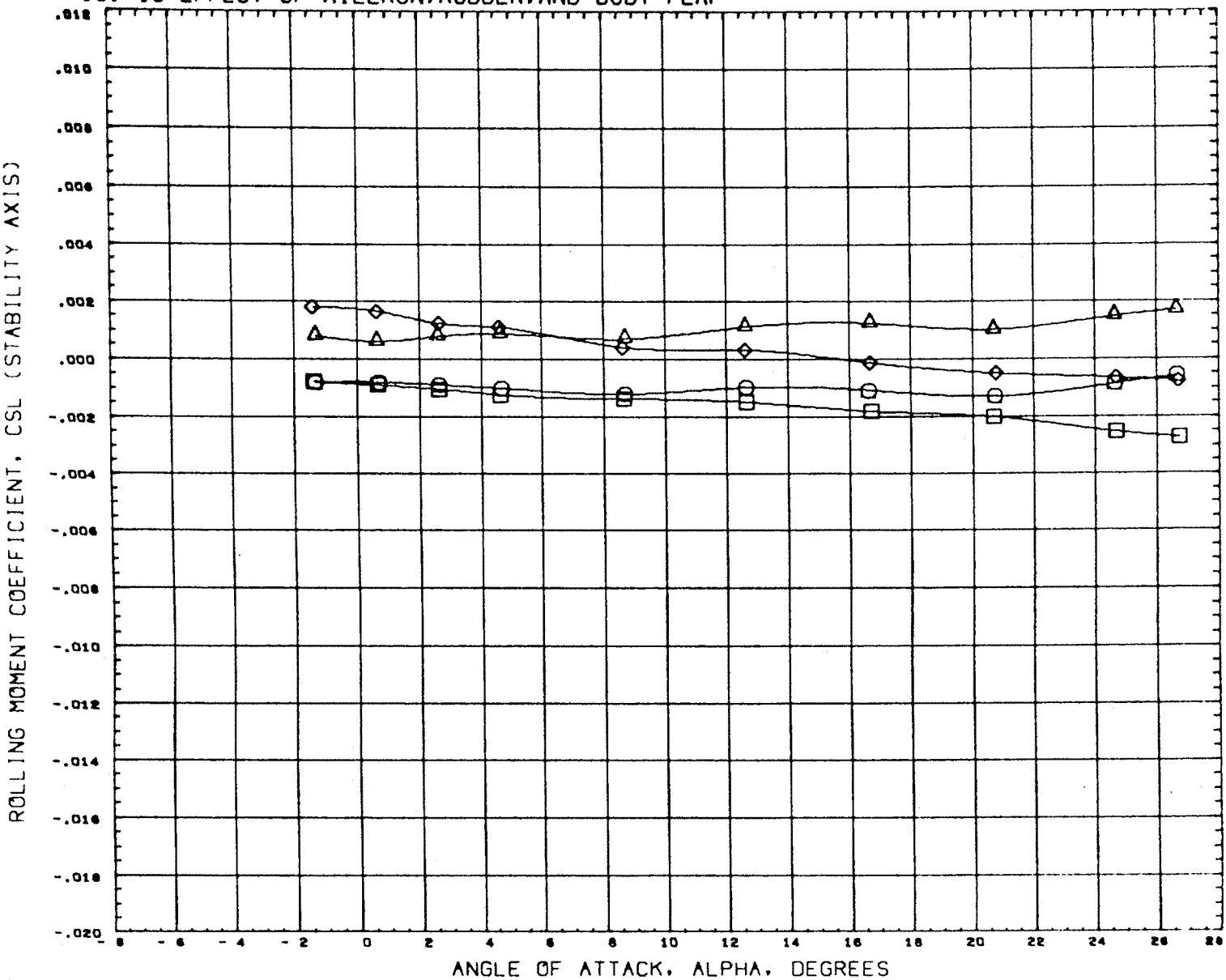


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 1.497

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 18 EFFECT OF AILERON, RUDDER, AND BODY FLAP

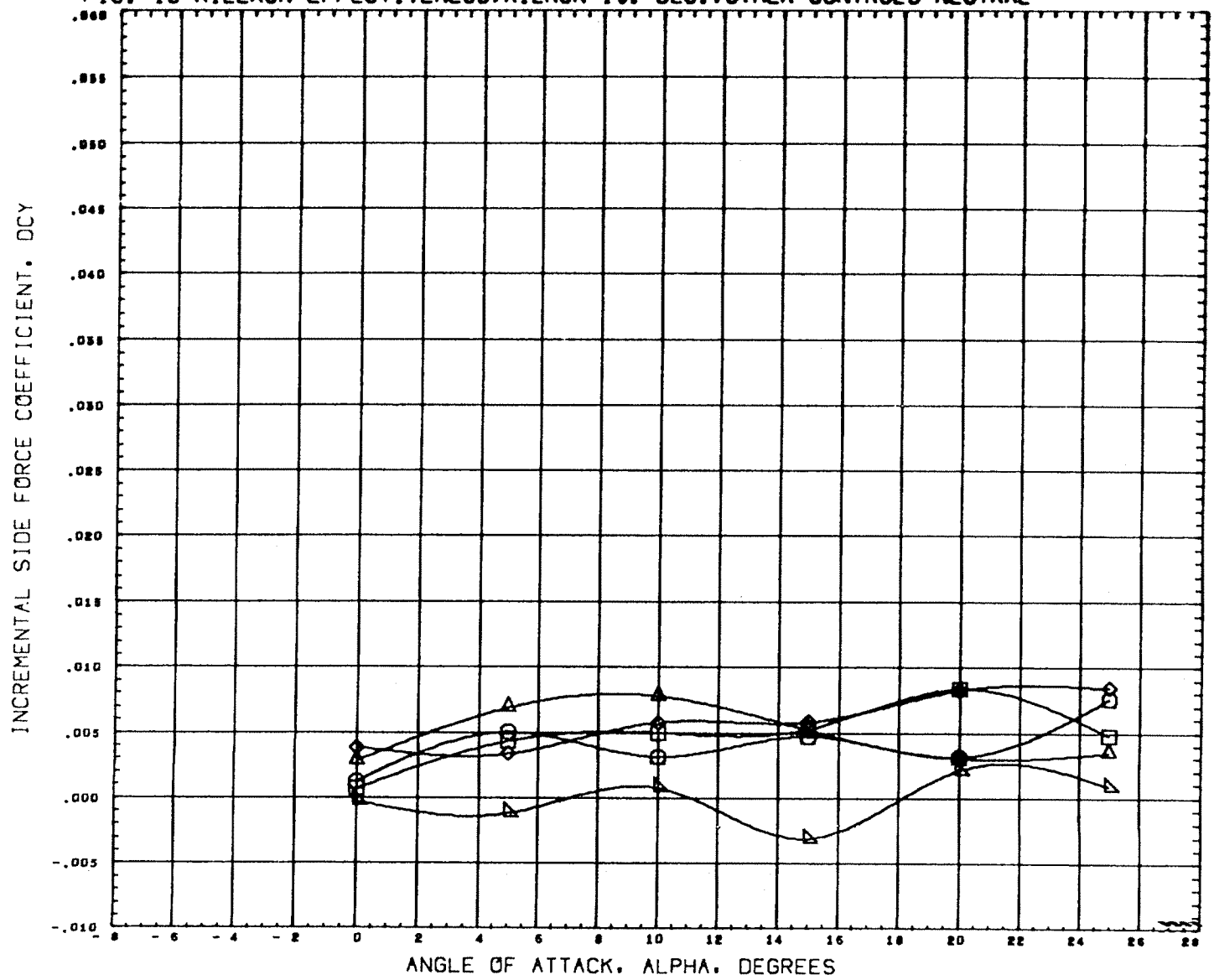


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AILRON	RUDDER	DF	BETA
(DBA250)	○	AMES 66-563 B22C8W19V10R2	0.000	0.000		0.000
(DBA258)	△	AMES 66-563 B22C8W19V10R2	10.000	0.000		0.000
(DBA259)	◇	AMES 66-563 B22C8W19V10R2	0.000	10.000		0.000
(DBA260)	□	AMES 66-563 B22C8W19V10R2F7L	0.000	0.000	40.000	0.000

MACH 2.004

REFERENCE INFORMATION		
SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 19 AILERON EFFECTIVENESS.AILRON=10. DEG..OTHER CONTROLS NEUTRAL



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
◺	2.000

PARAMETRIC VALUES

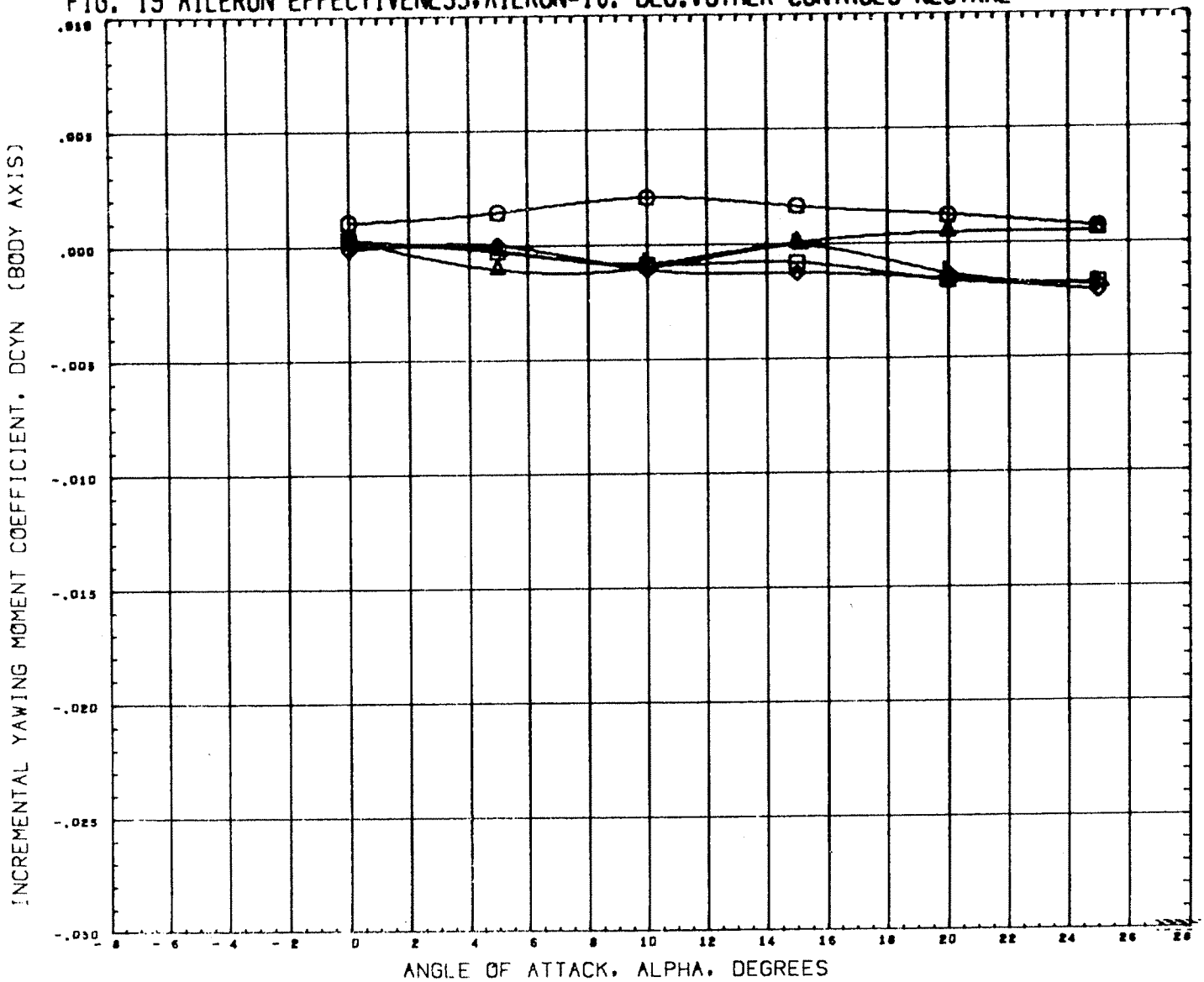
BETA	0.000	IC	0.000
ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 19 AILERON EFFECTIVENESS,AILRON=10. DEG.,OTHER CONTROLS NEUTRAL



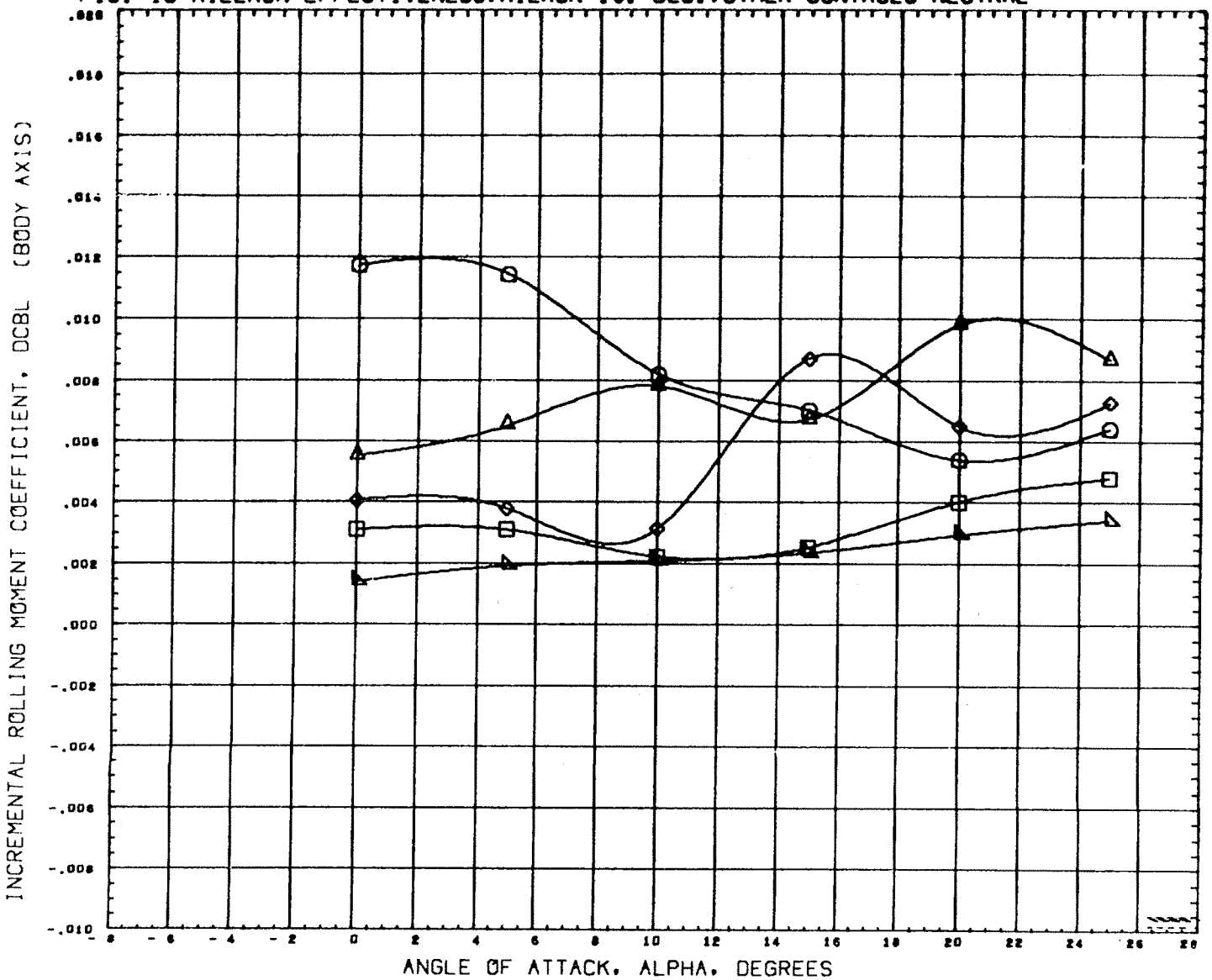
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	RUDDER	0.000
◇	1.200				
□	1.500				
◪	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 19 AILERON EFFECTIVENESS.AILRON=10. DEG..OTHER CONTROLS NEUTRAL



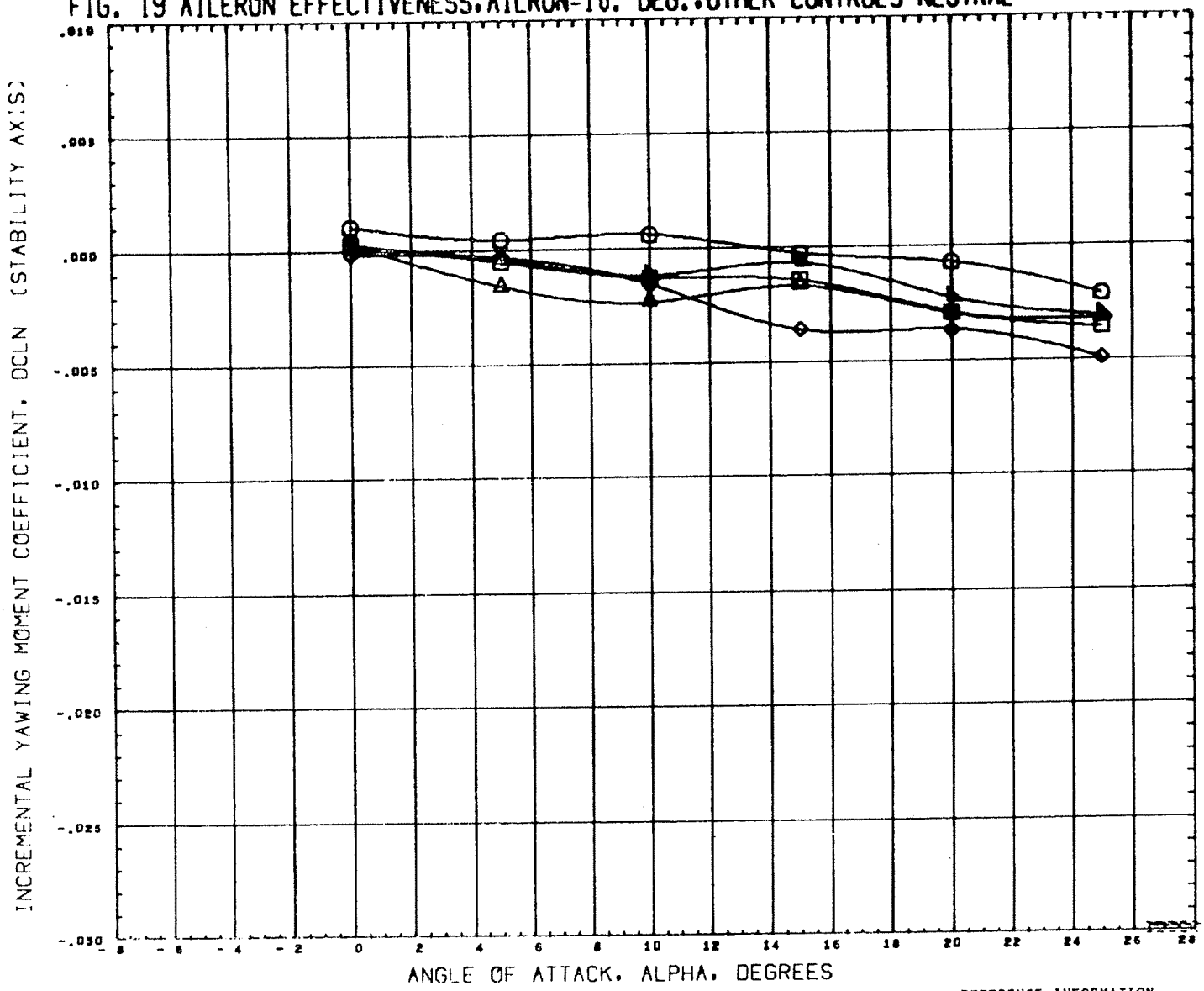
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	RUDDER	0.000
◇	1.200				
□	1.500				
	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 19 AILERON EFFECTIVENESS.AILRON=10. DEG..OTHER CONTROLS NEUTRAL



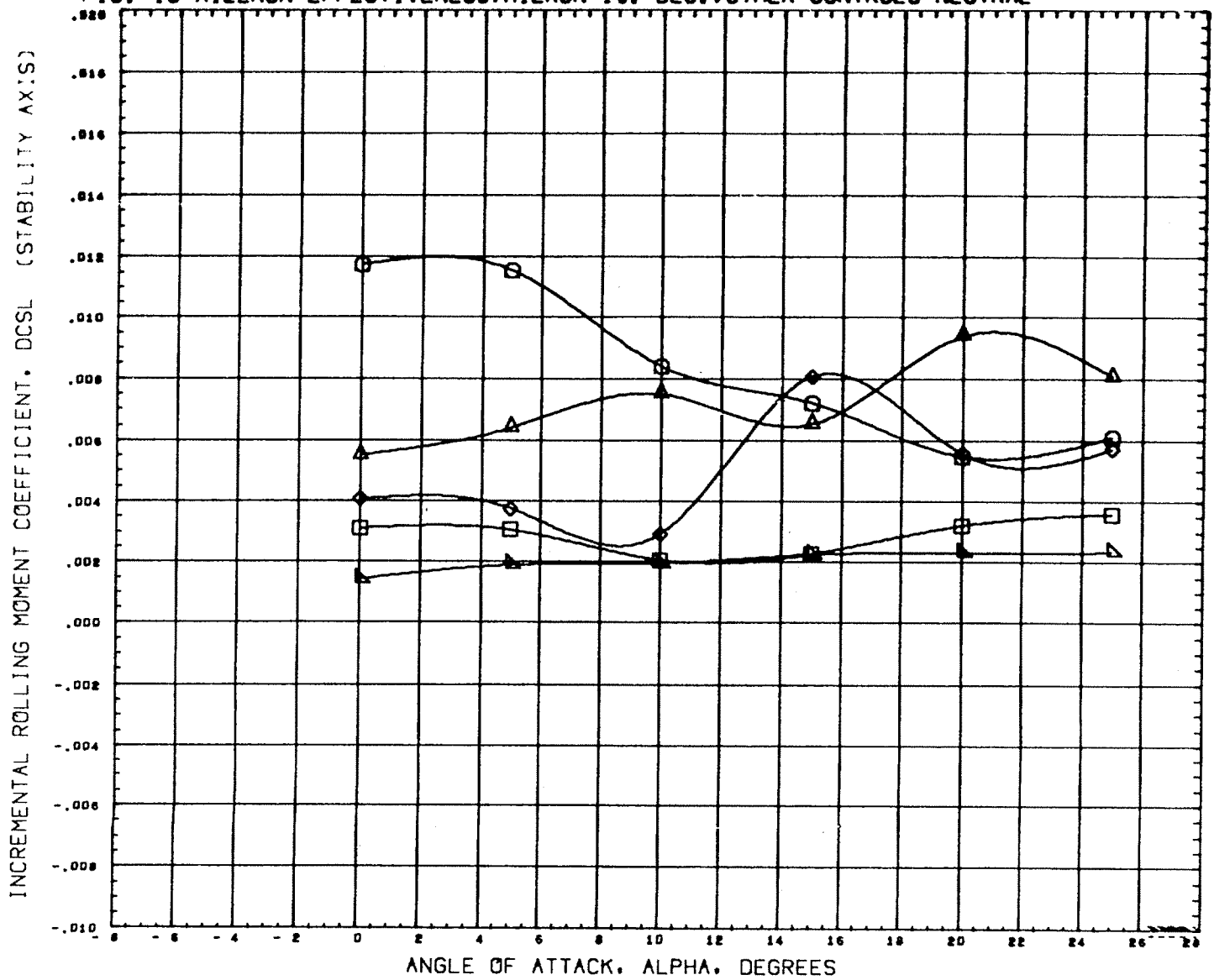
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	RUDDER	0.000
◇	1.200				
□	1.500				
◪	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.0500	IN.
YMRP	0.0000	IN.
ZMRP	1.0160	IN.
SCALE	0.0076	

FIG. 19 AILERON EFFECTIVENESS,AILRON=10. DEG.,OTHER CONTROLS NEUTRAL



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
▷	2.000

PARAMETRIC VALUES

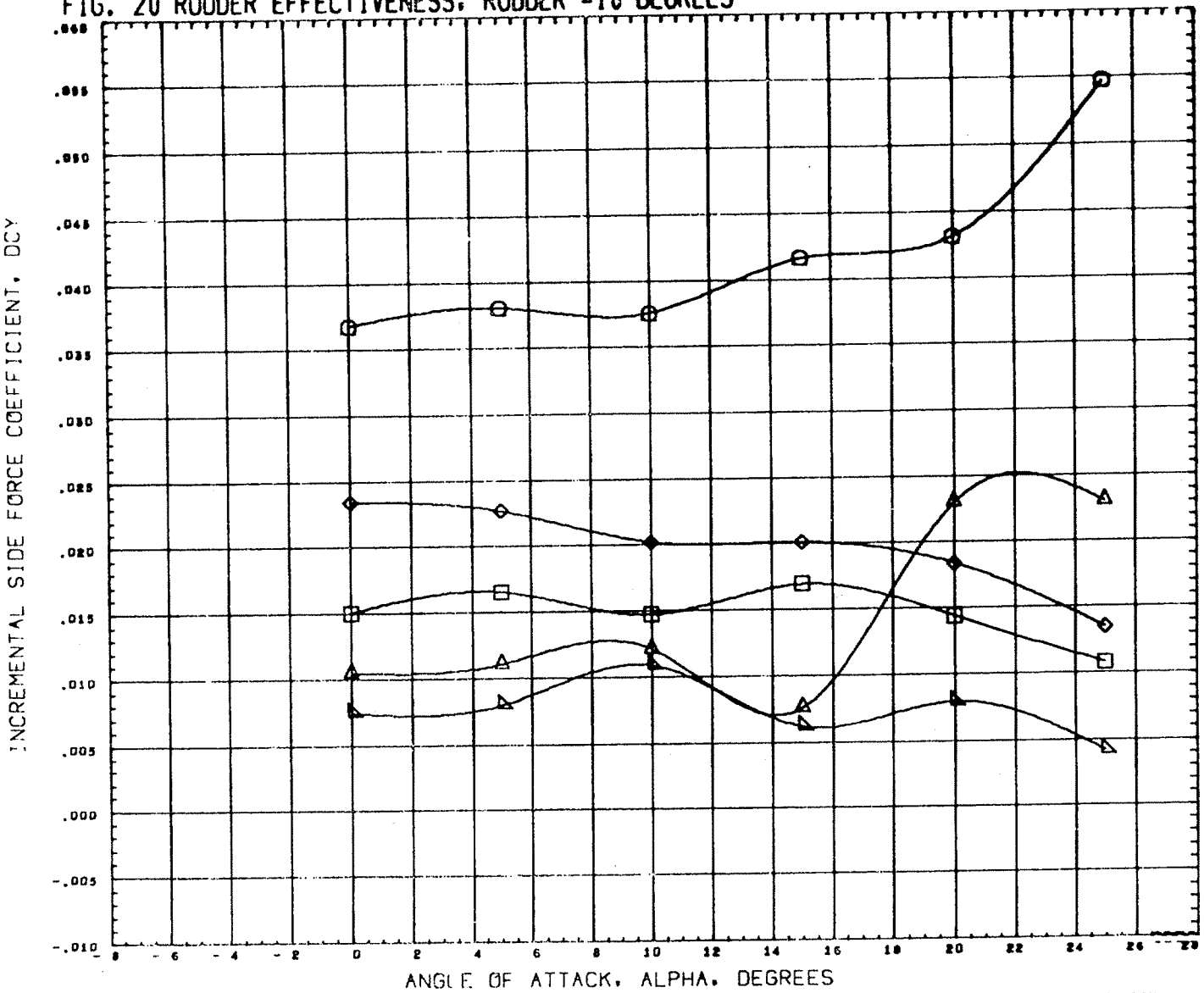
BETA	0.000	IC	0.000
ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 20 RUDDER EFFECTIVENESS, RUDDER =10 DEGREES



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
◺	2.000

PARAMETRIC VALUES

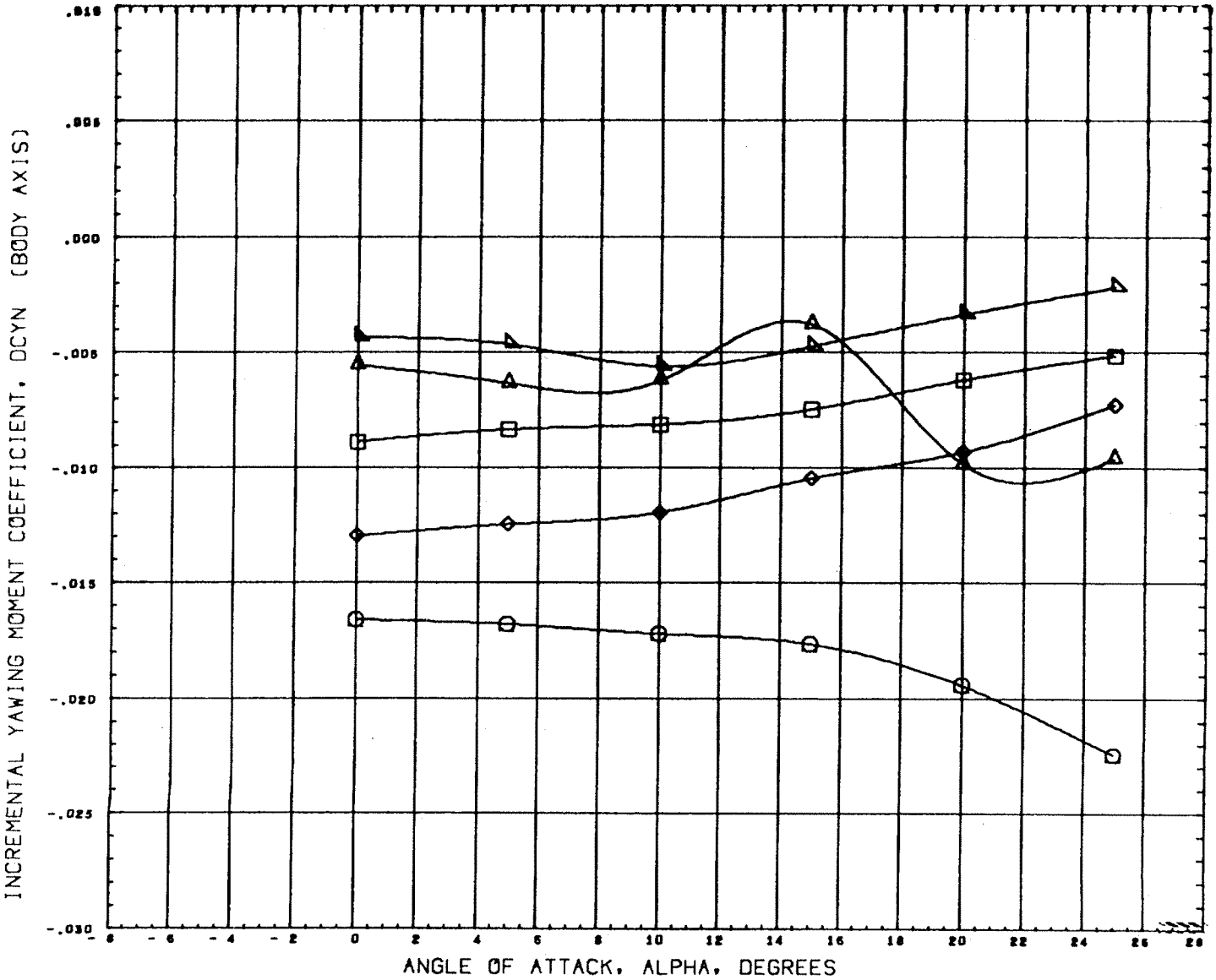
BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	10.000		

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 20 RUDDER EFFECTIVENESS, RUDDER =10 DEGREES



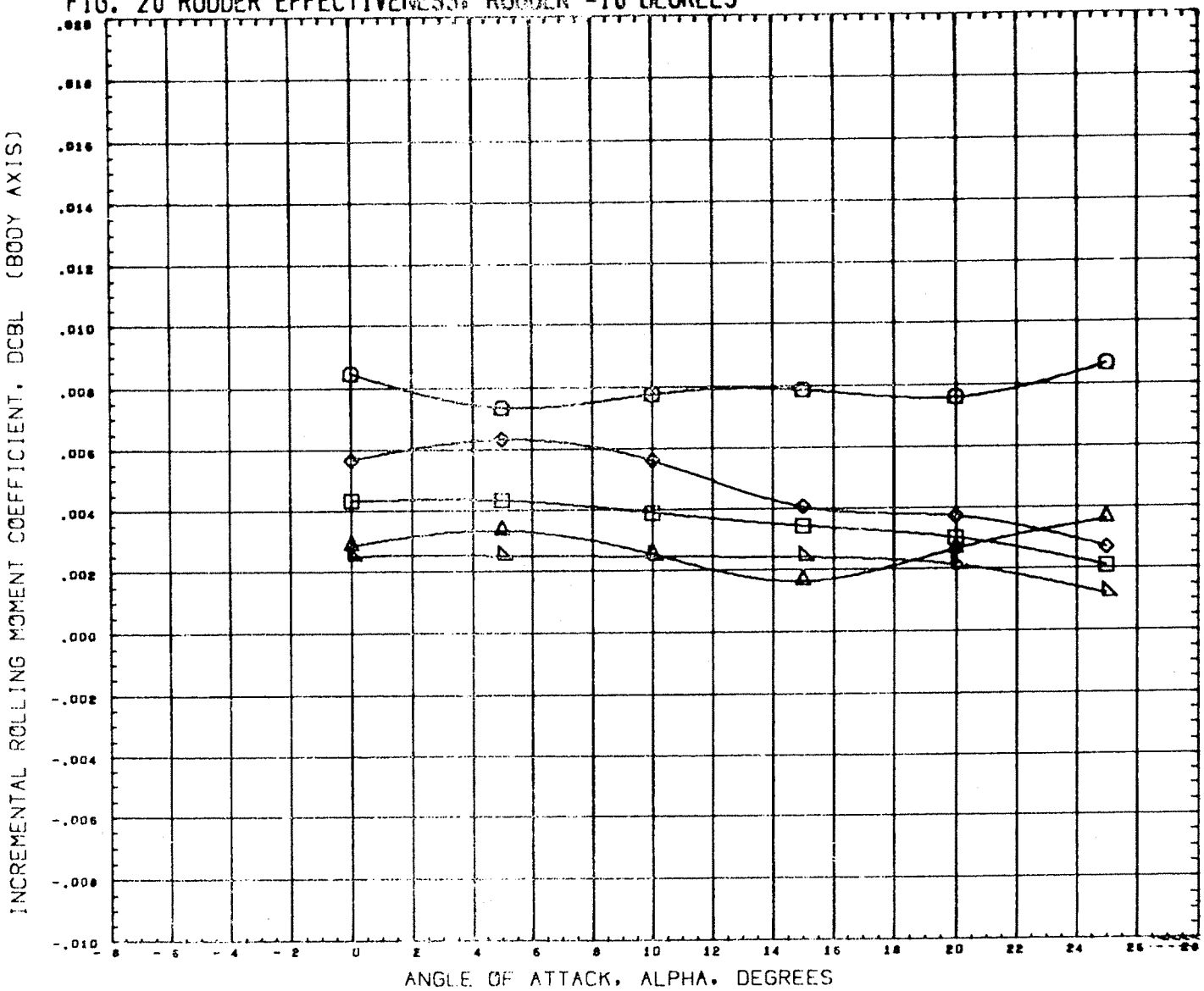
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	10.000		
□	1.500				
◪	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	13.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 20 RUDDER EFFECTIVENESS, RUDDER =10 DEGREES



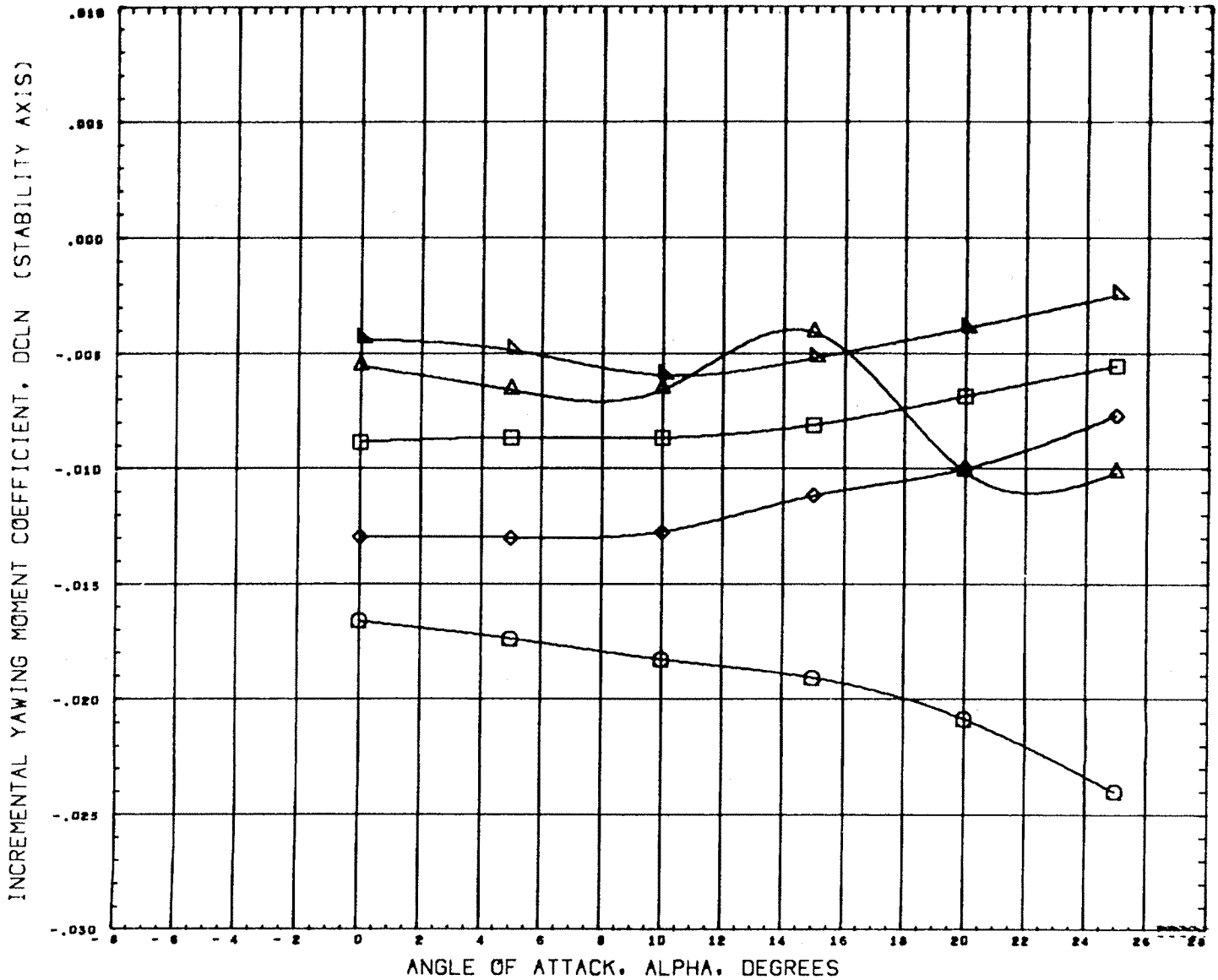
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	10.000		
□	1.500				
◁	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 20 RUDDER EFFECTIVENESS, RUDDER =10 DEGREES



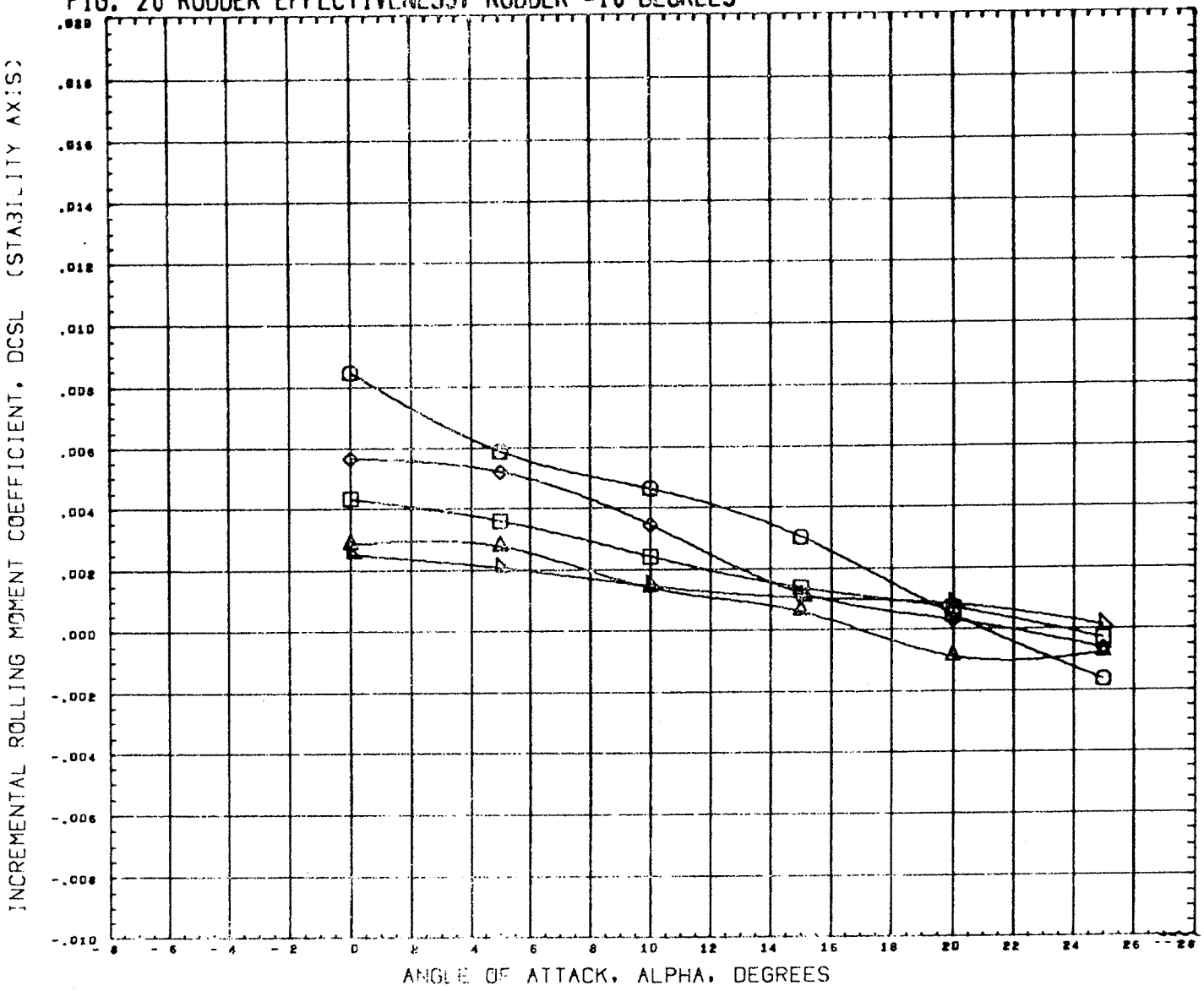
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	10.000		
□	1.500				
▷	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 20 RUDDER EFFECTIVENESS, RUDDER =10 DEGREES



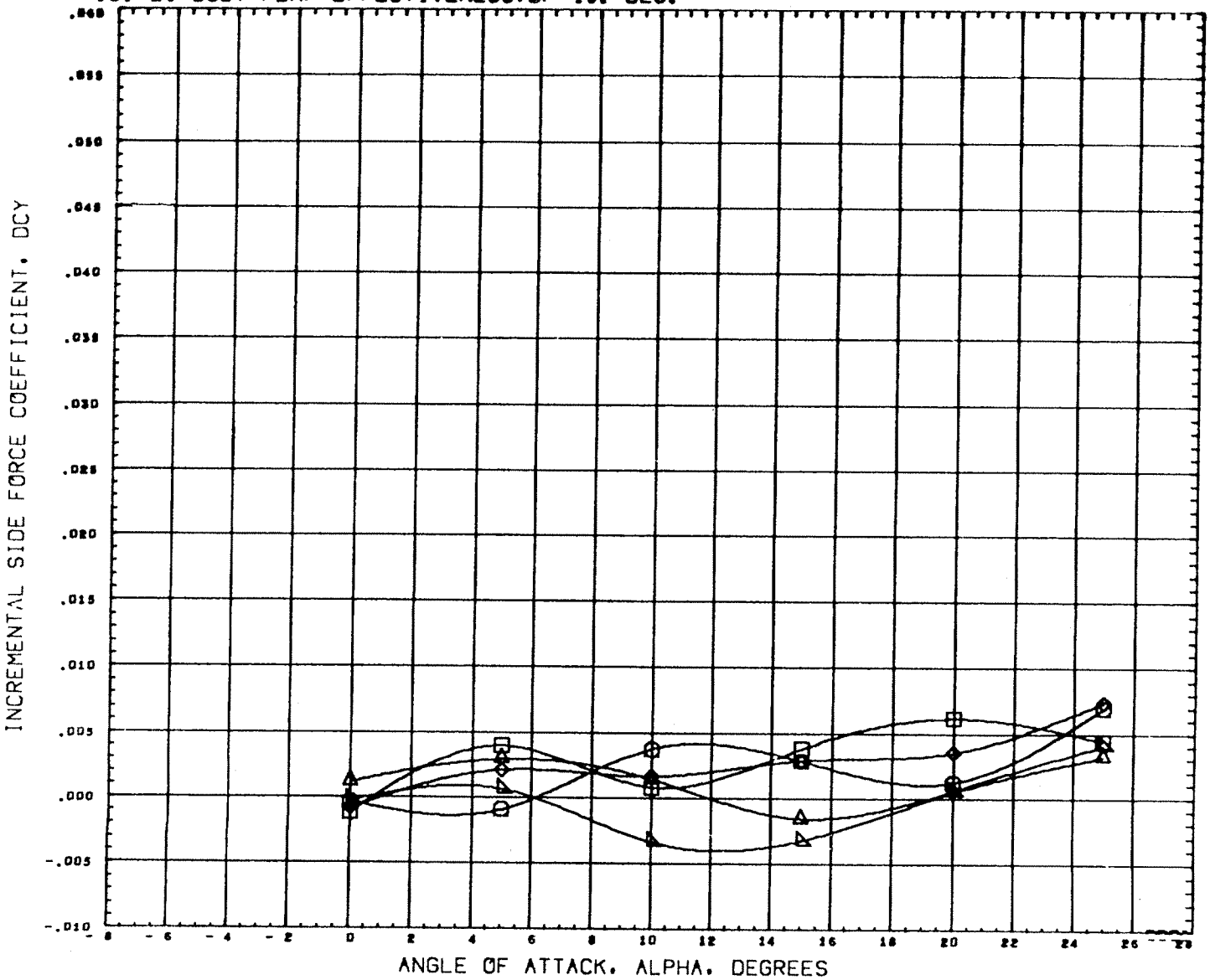
SYMBOL	MACH		PARAMETRIC VALUES		
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	10.000		
□	1.500				
◺	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS.DF=40. DEG.



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
◪	2.000

PARAMETRIC VALUES

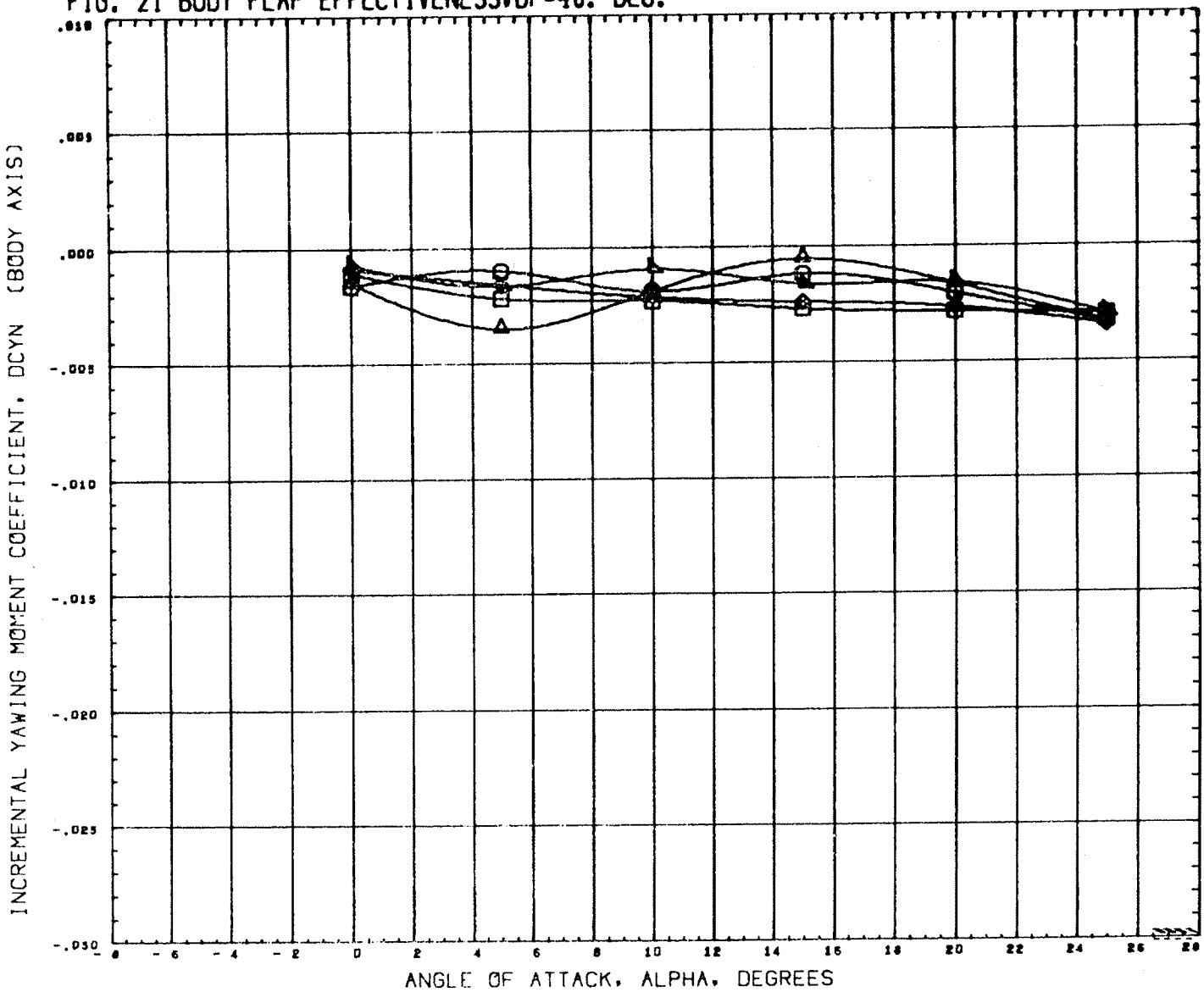
BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS.DF=40. DEG.



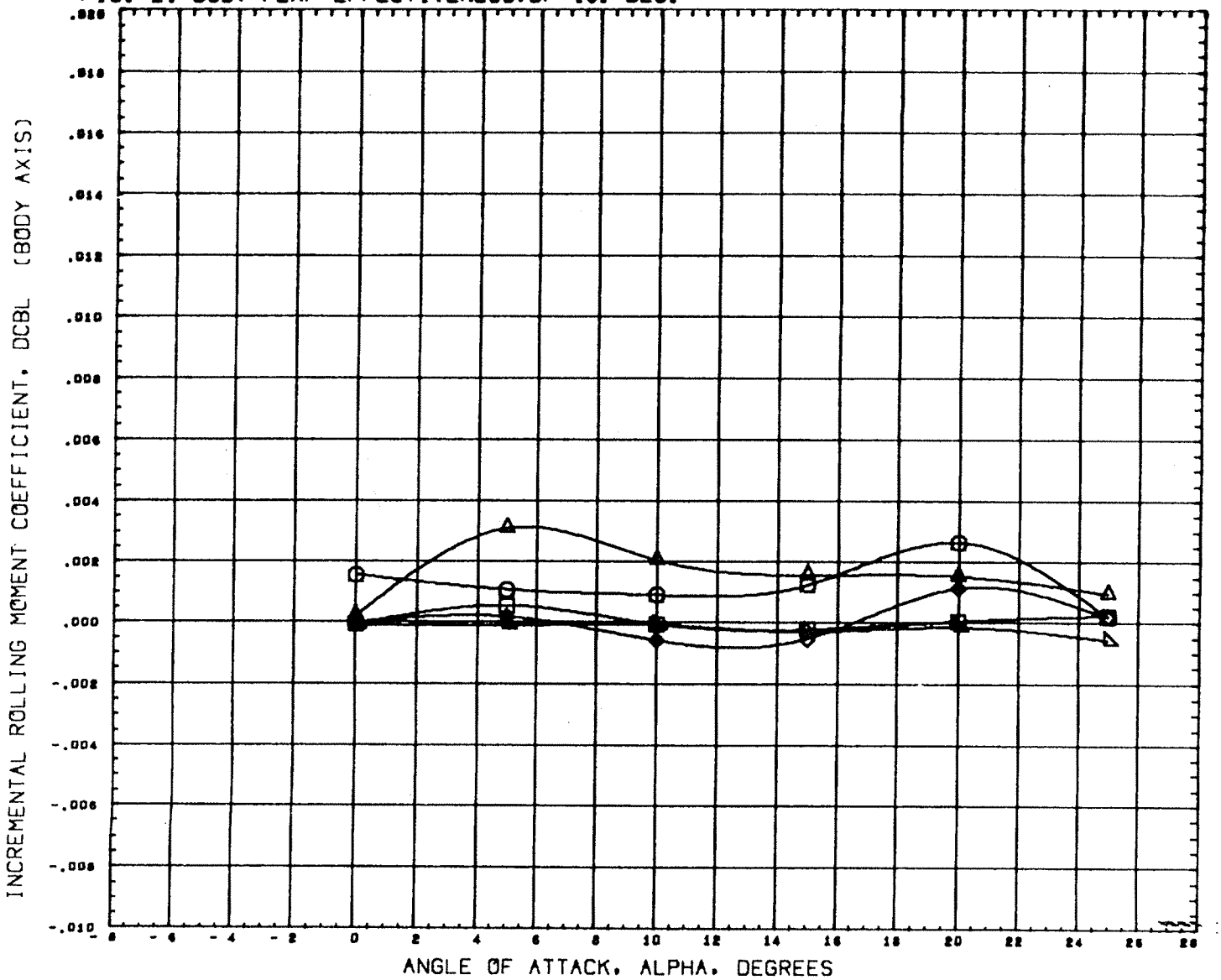
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	0.000		
□	1.500				
◪	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS.DF=40. DEG.



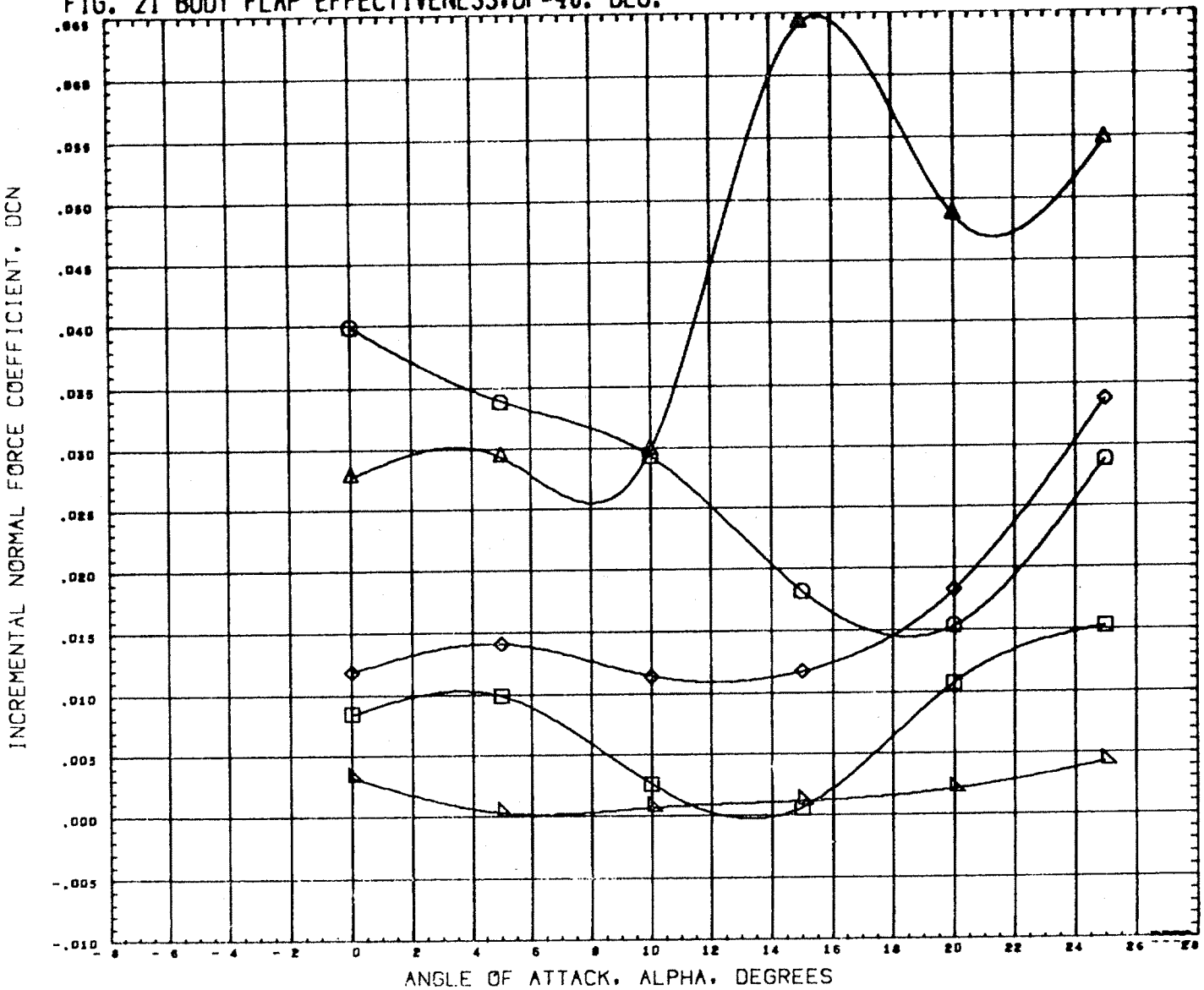
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	0.000		
□	1.500				
◸	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.0500	IN.
YMRP	0.0000	IN.
ZMRP	1.0160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS.DF=40. DEG.



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
◺	2.000

PARAMETRIC VALUES

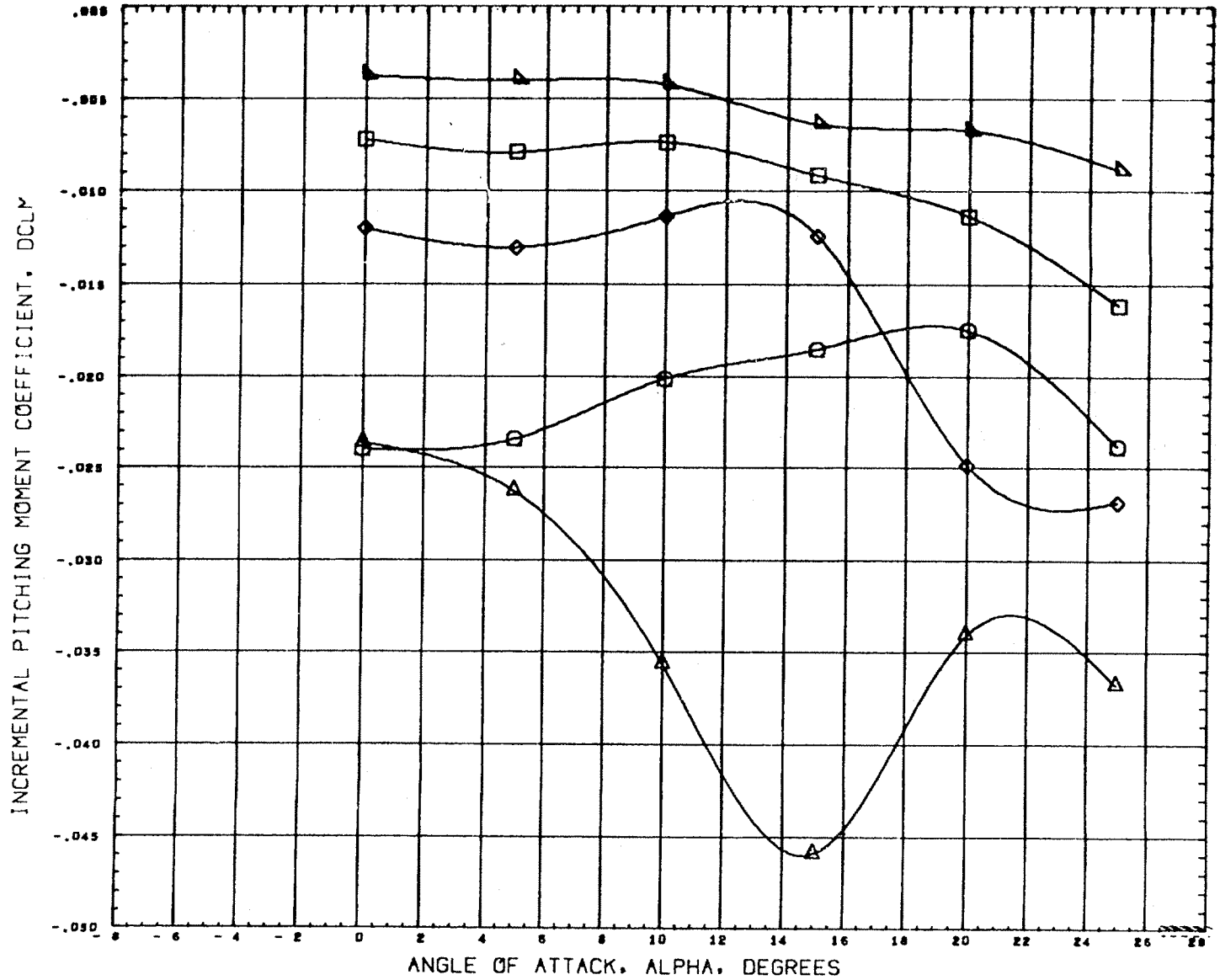
BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	15.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS.DF=40. DEG.



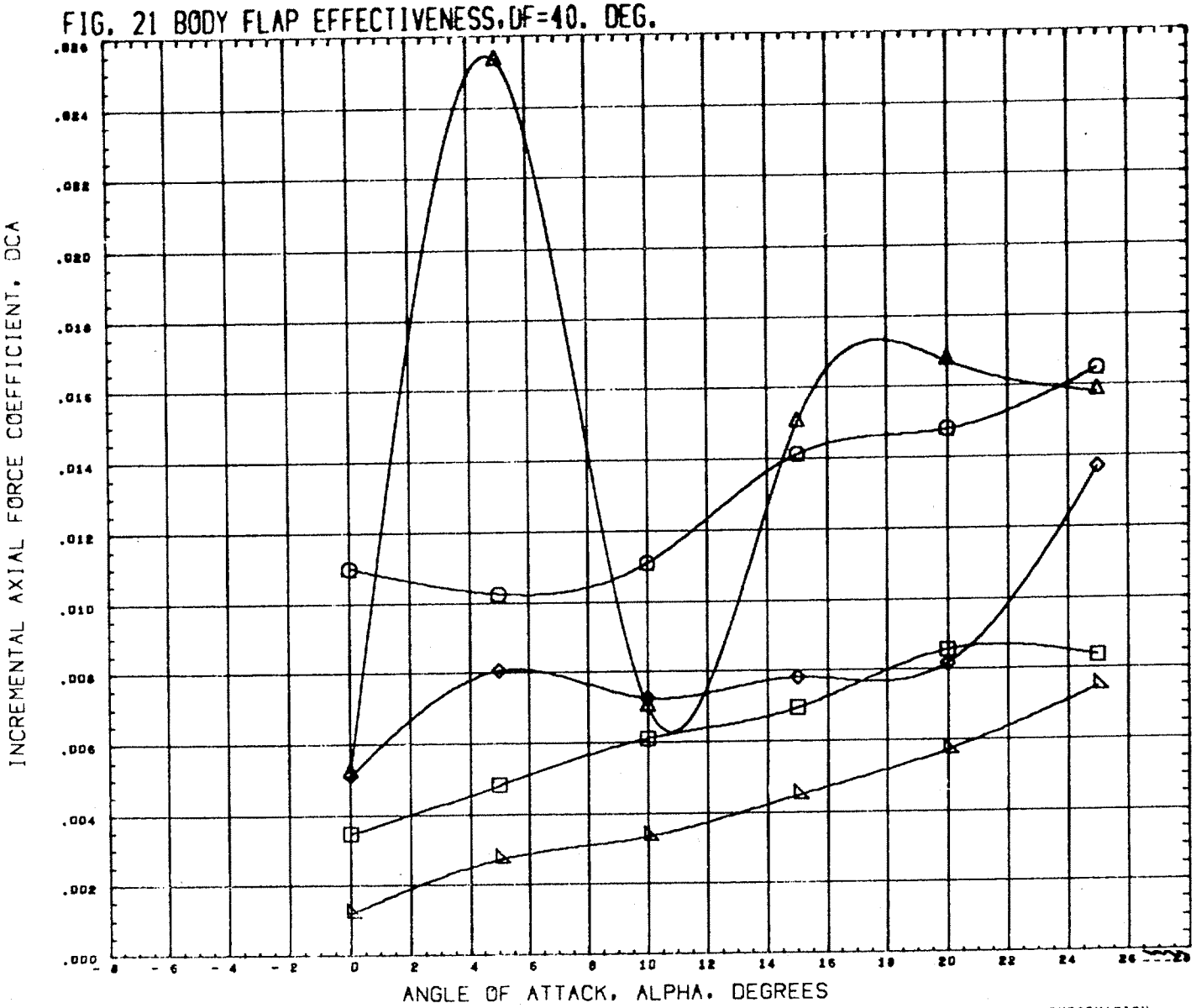
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	IC	0.000
△	0.900	ELEVTR	0.000	AILRON	0.000
◇	1.200	RUDDER	0.000		
□	1.500				
◺	2.000				

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	

FIG. 21 BODY FLAP EFFECTIVENESS, DF=40. DEG.



SYMBOL	MACH
○	0.600
△	0.900
◇	1.200
□	1.500
◺	2.000

PARAMETRIC VALUES

BETA	0.000	IC	0.000
ELEVTR	0.000	AILRON	0.000
RUDDER	0.000		

DATA HIST. CODE CC*EI*C

REFERENCE INFORMATION

SREF	70.1950	SQ.IN.
LREF	6.5410	IN.
BREF	13.0860	IN.
XMRP	15.8500	IN.
YMRP	0.0000	IN.
ZMRP	1.8160	IN.
SCALE	0.0076	